NASA
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Lyndon B. Johnson Space Center
Houston, Texas 77058

DMS-DR-2344

NASA-CR-151,788

VOLUME 1 of 2

TRANSONIC 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 11-FOOT TRANSONIC WIND TUNNEL

(LA77)

SPACE SHUTTLE
AEROTHERMODYNAMIC DATA REPORT

255-96 0002
D10033 #8

Data Management Services

SPACE DIVISION CHRYSLER CORPORATION

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(LA77)

by

Harry Parrell
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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Chrysler Huntsville Electronics Division/Slidell Engineering Office
Slidell, La. 70458

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TESTS SPECIFICS:

Test Number:	ARC 11-FOOT TWT 200-1
NASA Series Number:	LA77
Model Number:	44-0
Test Dates:	July 1976
Occupancy Hours:	151

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TRANSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE (REMOTELY CONTROLLED ELEVON) MODEL 44-O OF THE SPACE SHUTTLE ORBITER TESTED IN THE NASA/ARC 11-FOOT TRANSONIC WIND TUNNEL (LA77)

by

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ABSTRACT

The investigation was conducted in the NASA/Ames Research Center 11-Foot Transonic Wind Tunnel in the month of July 1976. The model was a Langley-built 0.015-scale SSV Orbiter model with remote independently operated left and right elevon surfaces. Special attention was directed to definition of nonlinear aerodynamic characteristics by taking data at small increments.

The objectives of the test were to obtain transonic aerodynamic data on control surface linearity and sensitivity to Mach number for fine-cut speed brake, body flap and rudder deflections and to investigate the interactive effects of mutual control surface deflections.

Six component aerodynamic force, moment and elevon position data were recorded for the Space Shuttle Orbiter with various elevon, aileron, rudder and speed brake deflection combinations over an angle of attack range from -2° to 20° at angles of sideslip of 0° and 4°. Additional tests were made over an angle of sideslip range from -6° to 8° at selected angles of attack. The test Mach numbers were 0.6, 0.8, 0.90, 0.92, 0.95, 0.98, 1.05, 1.12 and 1.2 with Reynolds numbers varying from 6.0 to 8.75 X 10^6 per foot.

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SCHEDULE OF COEFFICIENTS

(A) C_N vs α
C_A vs α
C_L vs α
C_D vs α
C_m vs α
C_l(BODY) vs α
C_n(BODY) vs α
C_Y vs α

(B) C_N vs δ_{SB}
C_A vs δ_{SB}
C_L vs δ_{SB}
C_D vs δ_{SB}
C_m vs δ_{SB}
C_l(BODY) vs δ_{SB}
C_n(BODY) vs δ_{SB}
C_Y vs δ_{SB}

(C) C_l(BODY) vs α
C_n(BODY) vs α
C_Y vs α

(D) C_l(BODY) vs β
C_n(BODY) vs β
C_Y vs β

VARYING CONDITIONS

(A) MACH
(B) SPEED BRAKE, ELEVON, MACH
(C) BODY FLAP, MACH
(D) BODY FLAP, ELEVON, MACH
(E) SPEED BRAKE, ALPHA, MACH
(F) RUDDER, MACH, SPEED BRAKE
(G) RUDDER, SPEED BRAKE, ELEVON, MACH
(H) BETA, ELEVON, MACH, BODY FLAP
(I) BETA, BODY FLAP, MACH
(J) ALPHA, BODY FLAP, MACH
(K) RUDDER, SPEED BRAKE, ALPHA, BODY FLAP
(L) ALPHA, AILERON, ELEVON

NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	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	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	PLOT SYMBOL	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	CIM	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	CIM	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}

NOMENCLATURE (Concluded)
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
$C_{A_{S_C}}$	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}	ELEV-L	left elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_{e_R}	ELEV-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.
$\Delta\beta$	DLTBTA	incremental angle of sideslip, difference between two or more test runs, degrees
	GRIT	parameter to denote testing with grit GRIT = 1 (grit on), GRIT = 0 (grit off)
C_{p_b}	CPB	pressure coefficient base
C_{p_c}	CPC	pressure coefficient and cavity

INTRODUCTION

Langley Research Center (LaRC), assisting Johnson Space Center (JSC) in the Space Shuttle development program, is continuing their support in determining Space Shuttle Orbiter aerodynamics, utilizing, at present, an .015-scale model having remotely controlled elevons. The original phase of this project was initiated to determine, systematically, fine-cut stability and elevon/aileron control characteristics of the Orbiter and to locate areas of non-linear aerodynamics, and to investigate the sensitivity of these non-linearities to Reynolds number in the Mach number range from 0.20 to 4.60.

During the analysis of results obtained in this basic program, several areas needing further investigation were discovered. No consideration was given to the possibility of interactive mutual interference effects between control surfaces in combination where one deflected surface could significantly affect the aerodynamic effectiveness of another. Also, there is a significant lack of data on the rudder effectiveness associated with incremental speed brake, or body flap deflections.

The objectives of these continuing studies are therefore, to determine control effectiveness linearity for fine-cut speed brake, body flap, and rudder deflections, and to investigate the interactive effects of mutual interference when control surfaces are deflected in combination.

The present investigation was initiated to study the transonic characteristics, utilizing the NASA/Ames Research Center 11-Foot Transonic Wind Tunnel. The test was conducted from July 7 to 24, 1976. The test Mach numbers of this investigation were 0.6, 0.8, 0.9, 0.92, 0.95, 0.98, 1.05, 1.12 and 1.20 with Reynolds number varied from 6.0 to 8.75×10^6 per foot. Six component aerodynamic force and moment and elevon position data were recorded for the Space Shuttle Orbiter with various elevon, aileron, rudder and speed brake deflection combinations over an angle of attack range from -2° to 20° at angles of sideslip of 0° and 4°. Additional tests were made over an angle of sideslip range from -6° to 8° at selected angles of attack.

MODEL DESCRIPTION

The test model was a 0.015-scale model of the Space Shuttle Orbiter (Figure 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 49-O. 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:

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

Component	Definition
B_{26}	Fuselage per Rockwell Lines VL70-000140A and VL70-000140B (Model SS-A00147)
C_9	Canopy per Rockwell Lines VL70-000143A 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 per 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 VL70-000145 (Model drawing SS-A00148)

Component	
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 CONDITIONS

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. The model was tested "clean" with no transition grit applied. Model angle of attack was varied from about -2° to 20° for angles of sideslip of 0° and 4°. Sideslip angles were varied from -6° to 8° at angles of attack of 5°, 10° and 15°. Angles of attack and sideslip have been corrected for the effects of sting deflection under load. Runs were made either by setting the elevons at a fixed angle of 0, +10°, and -10° or varying the elevon angle. No correction due to load has been applied to elevon angle since total torsional bending of the elevon has been determined to be negligible.

TEST FACILITY DESCRIPTION

The tests were conducted in the Ames 11- by 11-Foot Transonic Wind Tunnel which is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

DATA REDUCTION

An LTV-VB-36 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	$S_{ref} = 0.605$ ft.^{2}
Reference Length	$\ell_{ref} = 7.122$ in.
Reference Span	$b_{ref} = 14.05$ 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 : ARC11TWT 200-1-11 (LA77) DATE : 9-22-76

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	7.0×10^6	6.04	
0.90	7.0×10^6	8.26	
0.90	8.0×10^6	8.72	
0.92	7.0×10^6	8.40	
0.95	6.0×10^6	7.36	
0.95	7.0×10^6	8.61	
0.95	8.0×10^6	10.21	
0.95	8.75×10^6	11.18	
0.98	7.0×10^6	8.82	
1.00	7.0×10^6	8.96	
1.02	7.0×10^6	9.03	
1.05	7.0×10^6	8.24	
1.05	8.0×10^6	11.04	
1.12	7.0×10^6	8.72	
1.12	8.0×10^6	11.46	
1.20	7.0×10^6	10.07	

BALANCE UTILIZED: LTV VB36

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	2000 lb	± 10.0 lb	0.011→0.037
SF	980 lb	± 4.9 lb	0.005→0.018
AF	200 lb	± 1.0 lb	0.0011→0.0037
PM	3000 in-lb	± 15.0 in-lb	0.002→0.008
RM	1200 in-lb	± 6.0 in-lb	0.001→0.002
YM	1200 in-lb	± 6.0 in-lb	0.001→0.002

COMMENTS:

DAS 010

TABLE I (Concluded)

TEST : ARC11'TWT200-1-11 (LA77

DATE : 9-22-76

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
1.20	8.0×10^6	11.81	

BALANCE UTILIZED: LTV VB36

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	2000 lb	± 10.0 lb	0.011 → 0.037
SF	980 lb	± 4.9 lb	0.005 → 0.018
AF	200 lb	± 1.0 lb	0.0011 → 0.0037
PM	3000 in-lb	± 15.0 in-lb	0.002 → 0.008
RM	1200 in-lb	± 6.0 in-lb	0.001 → 0.002
YM	1200 in-lb	± 6.0 in-lb	0.001 → 0.002

COMMENTS:

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES S_a	S_e	S_{SR}	S_R	S_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B001	ØV101	A	0	0	0	25	0	0	8			45		54		10	6	2
02		A	4	0	0							38		55		16	7	3
03		10	B_1	0	0									321			8	4
04		10	B_2	0	0									322			9	5
05		A	0	0	10							46		323		11		
06		A	0	0	-10							47		317		12		
07		A	0	5	-10							48		318		13		
08		A	4	5	-10							36				14		
09		A	4	0	-10							37		319		15		
10		5	B_1	0	0							39				17		
11		5	B_2	0	0							40				18		
12		5	B_1	0	-10							41		320		19		
13		5	B_2	0	-10							42				20		
14		5	B_1	5	-10							43				21		
15		5	B_2	5	-10							44				22		
16		5	0	D	-10							49				23		
17		5	0	0	C											24		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICIENTS — IDVAR (1) — IDVAR (2) — NDV

A) α = -2, 0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16, 18, 20, 0 for M = .6, .8, 1.2

A) α = -2, 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 0 for M = 0.9, 0.92, 0.95, 0.98, 1.05, 1.12

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_a	δ_e	δ_{SB}	δ_R	δ_{BF}	RN	0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B018	OV101	A	0	0	0	25	0	0	7	25								
19		A	0	0	10					26								
20		A	0	0	-10					27								
21		A	0	5	-10					28								
22		A	4	5	-10					29								
23		A	4	0	-10					30								
24		A	4	0	0					31								
25		5	B1	0	0					32								
26		5	B1	0	-10					33								
27		5	B1	5	-10					34								
28		5	0	D	-10					35								
29		10	B1	0	0					324								
										0.6	0.9	0.92	0.95	0.98	1.00	1.02	1.05	1.12/1.2
R2B030	OV101	X1	0	0	0	25	0	0	7	325	326	327	328	329	330	331	332	333/334

MACH NUMBERS

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS

B1) β = -6, -4, -3, -2, -1, 0, 1, 2, 3, 4, 6, 8

B2) β = 8, 6, 4, 3, 2, 1, 0, -1, -2, -3, -4, -6

IDVAR (1) IDVAR (2) NDV

X1) α = 0, 5, 10

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δa	δe	δSB	δR	δSBF	RN	0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2	TEST RUN NUMBERS
R2B031	QV101	15	B1	0	0	25	0	0	8.75					50					
32		15	B2	0	0									51					
33		5	B1	0	0									52					
34		5	B2	0	0									53					
R2B035	QV101	15	B1	0	0	25	0	0	6.0					56					
36		15	B2	0	0									57					
37		5	B1	0	0									58					
38		5	B2	0	0									59					

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

C) $\delta_e = \delta_{eL} = \delta_{eR} = -10, -8, -6, -4, -2, -1, 0, 1, 2, 4, 6, 8, 10$

D) $\delta_{eL} = -17, -16, -15, -13, -11, -10, -9, -7, -5$

$\delta_{eR} = -3, -4, -5, -7, -9, -10, -11, -13, -15$

$\delta_a = -7 \rightarrow +5$, $\delta_e = -10$

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δ_{SB}	δ_R	δ_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B039	QV10	A	0	0	0	25	-10	0	8									60
40		A	4	0	0													61
41		10	B_1	0	0													62
R2B042	QV10	A	0	0	0	25	-10	0	7	89								
43		A	0	0	-10					90								
44		A	4	0	-10					91								
45		10	B_1	0	0					92								
46		10	B_2	0	0					93								

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES S_a	S_e	S_{SB}	S_R	S_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B047	QV101	A	0	0	0	25	-10	0	8			84		69		63		
48		A	0	0	-10							85		70		64		
49		A	0	5	-10									71				
50		A	4	0	-10							86		72		65		
51		A	4	0	0									73		66		
52		5	B1	0	0							87		74		67		
53		5	B2	0	0							88		75				
54		5	B1	0	-10									76		68		
55		5	B2	0	-10									77				
56		15	B1	0	-10									78				
57		15	B2	0	-10									79				
58		15	B1	0	0									80				
59		15	B2	0	0									81				
60		15	B3	0	0									82				
61		5	B3	0	0									83				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS: B3) β = 0, -1, -2, -3, -4, -3, -2, -1, 0, 1, 2, 3, 4, 3, 2, 1, 0

IDVAR (1) IDVAR (2) NDV

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES S_a	S_e	S_{SB}	S_R	S_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B062	QV101	A	0	0	0	25	-5	0	7	115								94
63		A	4	0	0					116								95
64		10	B1	0	0					117								96
R2B065	QV101	A	0	0	0	25	-5	0	8			110		102				
66		A	0	0	-10							111		103				
67		A	4	0	-10							112		104				
68		15	B1	0	0									108				
69		15	B2	0	0									109				
70		5	B1	0	0									105				
71		12.5	B1	0	0									106				
72		12.5	B2	0	0									107				
73		15	B1	0	-10							113						
74		15	B2	0	-10							114						

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δSB	δSR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B075	OV101	A	0	0	0	25	-5	0	7							97		
76		A	0	0	-10											98		
77		A	4	0	-10											99		
78		15	B_1	0	0											100		
79		15	B_2	0	0											101		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	Sa	Se	SSB	SR	SBF	RN	0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B080	QV101	A	0	0	0	55	0	0	7	170								118
81		A	0	0	-10					171								119
82		A	4	0	0					172								120
83		10	B1	0	0					173								121
R2B084	QV101	A	0	0	0	55	0	0	8			140		130		122		
85		A	0	0	-10							141		131		123		
86		A	4	0	-10							142		132		124		
87		A	4	0	0							143		133		125		
88		5	B1	0	0							144		134		126		
89		15	B1	0	0									135				
90		15	B2	0	0									136				
91		5	B1	5	-10							145		137		127		
92		A	0	5	-10							146		138		128		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SrB	Sr	SBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B093	QV101	A	0	0	0	55	-10	0	7	147								151
94		A	0	0	-10					148								152
95		A	4	0	0					149								153
96		10	B1	0	0					150								154
R2B097	[illegible]	A	0	0	0	55	-10	0	8			166		160		155		
098		A	0	0	-10							167		161		156		
099		A	4	0	-10									162		157		
100		A	4	0	0							168		163		158		
101		5	B1	0	0							169		164		159		
102		A	0	5	-10									165				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NOV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SSB	SR	SBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B103	DV101	A	0	0	0	0	0	0	7	199								174
104		A	0	0	-10					200								175
105		A	4	0	-10													176
106		A	4	0	0					201								184
107		10	B1	0	0					202								177
R2B108	DV101	A	0	0	0	0	0	0	8			194		185		178		
109		A	0	0	-10							195		186		179		
110		A	4	0	-10									187		181		
111		A	4	0	0							197		188		182		
112		5	B1	0	0							198		189		183		
113		15	B1	0	0									190				
114		15	B2	0	0									191				
115		A3	-2	5	-10									192				
116		A	0	5	-10							196		193		180		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS A3) α = -2, 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12

IDVAR (1) IDVAR (2) NDV

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δa	δe	δSB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.1	1.2
R2B 117	~~2~~ V101	A	0	0	0	0	-10	0	7	221								203
118		A	0	0	-10					222								204
119		A	4	0	0					223								205
120		10	B1	0	0					224								206
R2B 121	~~1~~ V101	A	0	0	0	0	-10	0	8			217		211		207		
122		A	0	0	-10							218		212		208		
123		A	0	5	-10									213				
124		A	4	0	0							219		214		209		
125		5	B1	0	0							220		215		210		
126		5	B2	0	0									216				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

TEST: 200-1-11 LAMP

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_a	δ_e	δ_{SB}	δ_R	δ_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B 127	QV101	A	0	0	0	0	-5	0	7	238								225
128		A	4	0	0					239								226
129		5	B1	0	0													227
130		10	B1	0	0					240								
R2B 131	QV101	A	0	0	0	0	-5	0	8			235		231		228		
132		A	4	0	0							236		232		229		
133		5	B1	0	0							237		233		230		
134		5	B2	0	0									234				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δsB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B 135	ØV101	A	0	0	0	55	-5	0	7	253								241
136		A	4	0	0	↓	↓	↓	↓	254								242
↓ 137	↓	10	B1	0	0	↓	↓	↓	↓	255								243
R2B 138	ØV101	A	0	0	0	55	-5	0	8			250		247		244		
139		A	4	0	0	↓	↓	↓	↓			251		248		245		
↓ 140	↓	5	B1	0	0	↓	↓	↓	↓			252		249		246		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST: 200-1-11 LA77

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δSB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.15	1.2
R2B 141	DV101	A	0	0	0	25	0	-11.7	7	284								256
142		A	0	0	-10					287								257
143		A	4	0	0					285								
144		10	B1	0	0					286								259
R2B 145	DV101	A	0	0	0	25	0	-11.7	8			281		270		260		
146		A	0	0	-10							280		271		261		
147		A	0	5	-10									272		262		
148		A	0	0	10									277		267		
149		A	4	0	10									276		266		
150		A	4	0	0							282		275		265		
151		A	4	0	-10									274		264		
152		A	4	5	-10									273		263		
153		5	B1	0	-10									279		269		
154		5	B1	0	0							283		278		268		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SSB	SR	SBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B 155	DV101	A	0	0	0	25	0	16.3	7	311								289
156		A	0	0	-10					314								288
157		A	4	0	0					315								290
158		10	B1	0	0					313								291
159		A	0	0	10					316								
160		A	4	0	-10					312								
R2B 161	DV101	A	0	0	0	25	0	16.3	8			306		299		292		
162		A	0	0	-10							309		300		293		
163		A	0	5	-10									301		294		
164		A	0	0	10							310		302		295		
165		A	4	0	10									303		296		
166		A	4	0	0							307		304		297		
167		5	B1	0	0							308		305		298		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SsB	SR	SB	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B 168	DV101	A	0	0	0	15	0	0	7	349								335
169		A	4	0	0					350								336
170		10	B1	0	0					351								337
171	DV101	A	0	0	0	15	0	0	8			346		341		338		
172		A	4	0	0							347		342		339		
173		5	B1	0	0							348		343		340		
174		15	B1	0	0									344				
175		15	B2	0	0									345				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	S_{SB}	S_K	S_{BF}	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B176	QV101	A	0	0	0	40	0	0	7	366								352
177		A	4	0	0					367								353
178		10	B1	0	0					368								354
R2B179	QV101	A	0	0	0	40	0	0	8			363		358		355		
180		A	4	0	0							364		359		356		
181		5	B1	0	0							365		360		357		
182		15	B1	0	0									361				
183		15	B2	0	0									362				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1996

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δsB	δR	δPr	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B184	DV101	A	0	0	0	70	0	0	7	383								369
185		A	4	0	0					384								370
186		10	B1	0	0					385								371
R2B187	DV10	A	0	0	0	70	0	0	8			380		375		372		
188		A	4	0	0							381		376		373		
189		5	B1	0	0							382		377		374		
190		15	B1	0	0									378				
191		15	B2	0	0									379				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SSB	SR	SBA	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R28192	DV101	A	0	0	0	25	0	22	7	400								386
193		A	4	0	0					401								387
194		10	B1	0	0					402								388
R28195	DV101	A	0	0	0	25	0	22	8			397		392		389		
196		A	4	0	0							398		393		390		
197		5	B1	0	0							399		394		391		
198		15	B1	0	0									395				
199		15	B2	0	0									396				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δsb	δr	δBM	RN	MACH NUMBERS 0.6	0.8	0.9	0.98	0.95	0.99	1.05	1.12	1.2
R2B200	D/10	A	0	0	0	25	0	6	7	417								403
201		A	4	0	0					418								404
202		10	B1	0	0					417								405
R2B203	D/10	A	0	0	0	25	0	6	8			416		409		407		
204		A	4	0	0							415		410		408		
205		5	B1	0	0							414		411		406		
206		15	B1	0	0									412				
207		15	B2	0	0									413				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	SSB	SR	[illegible]	RN	MACH NUMBERS 0.6	0.8	0.9	0.95	0.97	0.98	1.05	1.12	1.2
R2B208	QV101	A	0	0	0	25	0	-6	7	434								420
209		A	4	0	0					435								421
210		10	B1	0	0					436								422
R2B211	QV101	A	0	0	0	25	0	-6	8			431		426		423		
212		A	4	0	0							432		427		424		
213		5	B1	0	0							433		428		425		
214		15	B1	0	0									429				
215		15	B2	0	0									430				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_a	δ_e	δ_{SB}	δ_R	δ_{R1}	RN	MACH NUMBERS 0.6	0.8	0.9	0.98	0.95	0.98	1.05	1.10	1.2
R2B216	ϕV101 8	A	0	0	0	25	-3	0	7	451								437
17		A	4	0	0					453								438
18	↓	10	B1	0	0					452								439
R2B219	ϕV101 8	A	0	0	0	25	-3	0	8			448		443		440		
20		A	4	0	0							449		444		441		
21		5	B1	0	0							450		445		442		
22		15	B1	0	0									446				
23	↓	15	B2	0	0									447				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	e	SSE	SR	SBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.98	0.95	0.99	1.05	1.12	1.2
R2B224	ϕV101	A	0	0	0	0	-3	0	7	468								454
25		A	4	0	0					469								455
26		10	B1	0	0					470								456
R2B227	ϕV101	A	0	0	0	0	-3	0	8			465		460		459		
28		A	4	0	0							466		461		458		
29		5	B1	0	0							467		462		457		
30		15	B1	0	0									463				
31		15	B2	0	0									464				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sa	Se	δSB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B232	ØV101	A	0	0	0	25	-15	0	7	485								471
33		A	4	0	0					486								472
34		10	B1	0	0					487								473
R2B235	ØV101	A	0	0	0	25	-15	0	8			482		477		476		
36		A	4	0	0							483		478		475		
37		5	B1	0	0							484		479		474		
38		15	B1	0	0									480				
39		15	B2	0	0									481				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δSB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B240	ΦV101	A	0	0	0	25	-22	0	7	502								488
41		A	4	0	0					503								489
42		10	B1	0	0					504								490
R2B243	ΦV101	A	0	0	0	25	-22	0	8			499		494		491		
44		A	4	0	0							500		495		492		
45		5	B1	0	0							501		496		493		
46		15	B1	0	0									497				
47		15	Ba	0	0									498				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : 24 JULY 1976

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δa	δe	δSB	δR	δBF	RN	MACH NUMBERS 0.6	0.8	0.9	0.92	0.95	0.98	1.05	1.12	1.2
R2B248	ΦV101 OMS OFF	A	0	0	0	25	-22	0	7	519								505
47		A	4	0	0					520								506
50		10	B1	0	0					521								507
R2B251	ΦV101 OMS OFF	A	0	0	0	25	-22	0	8			516		511		508		
52		A	4	0	0							517		512		509		
53		5	B1	0	0							518		513		510		
54		15	B1	0	0									514				
55		15	B2	0	0									515				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

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/8

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

TABLE III-Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP -F8

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
VL70-0084010

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°49'	15°49'
Yaw	12°17'	12°17'
Right Nozzle		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'

TABLE III-Continued

MODEL DIMENSIONAL DATA

MODEL COMPONENT RUDDER - R_5

GENERAL DESCRIPTION 2A, 3, 3A, and 140A/8 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

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 Planform	413.253	0.093
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-A00148

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

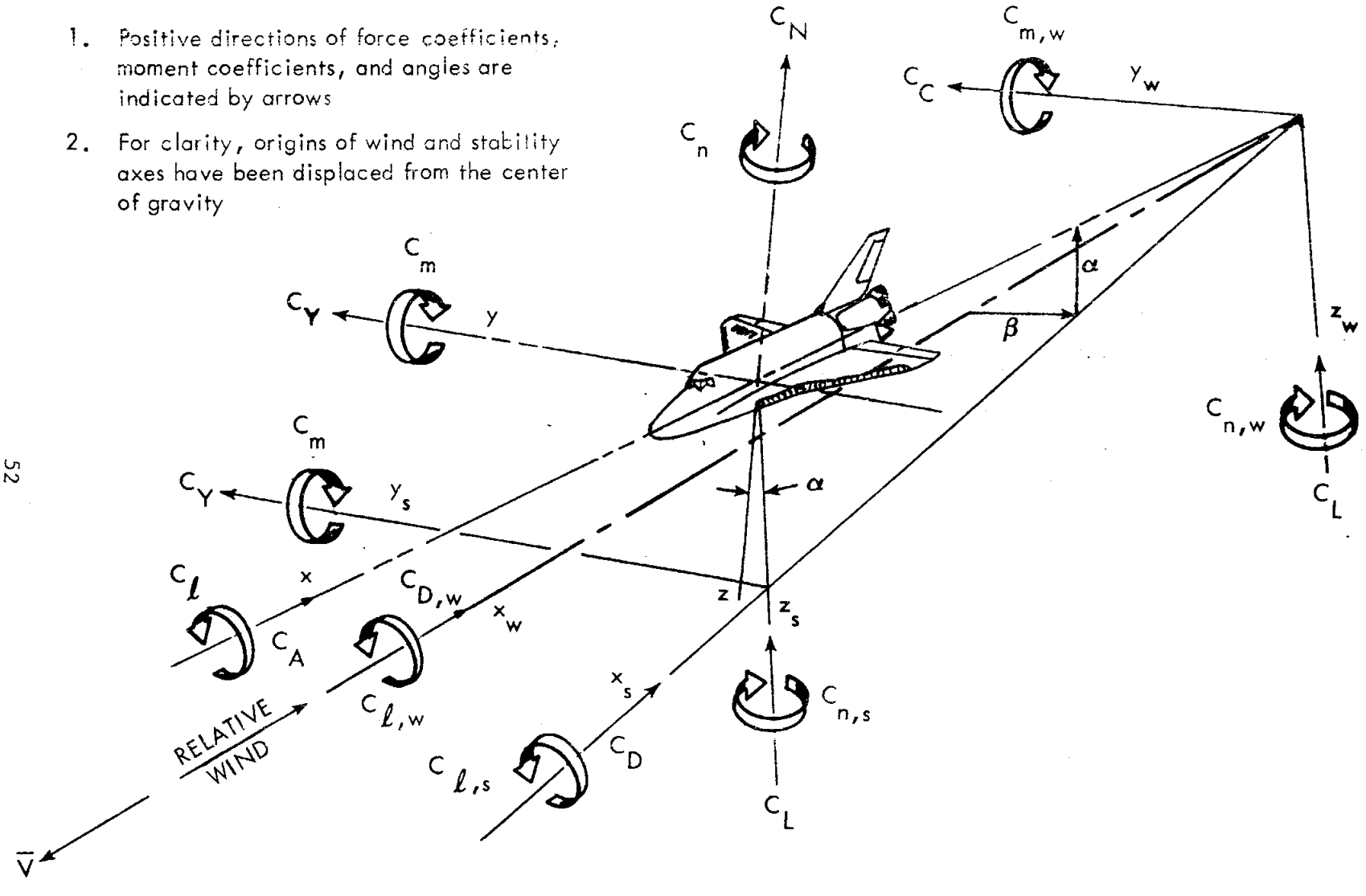
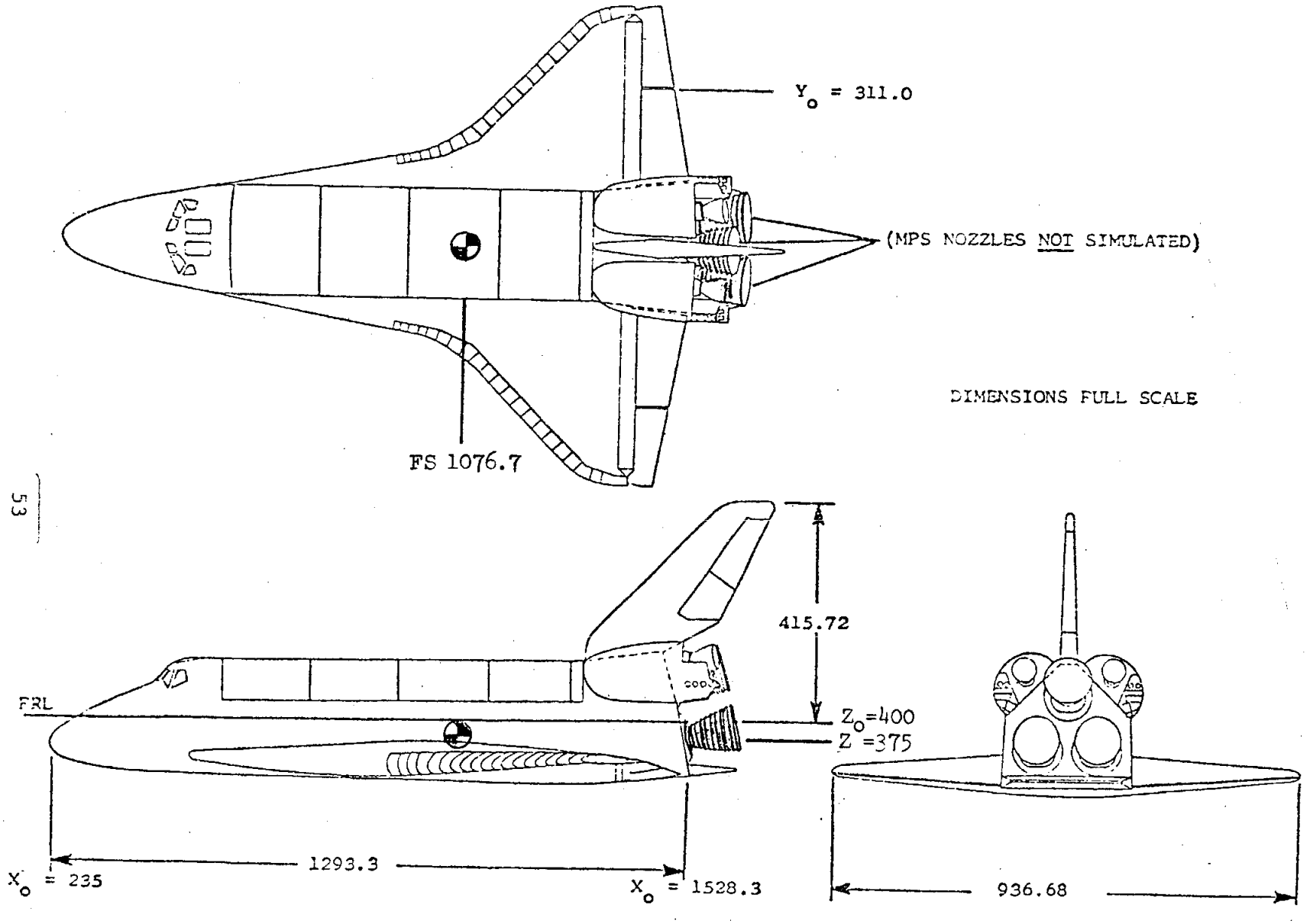
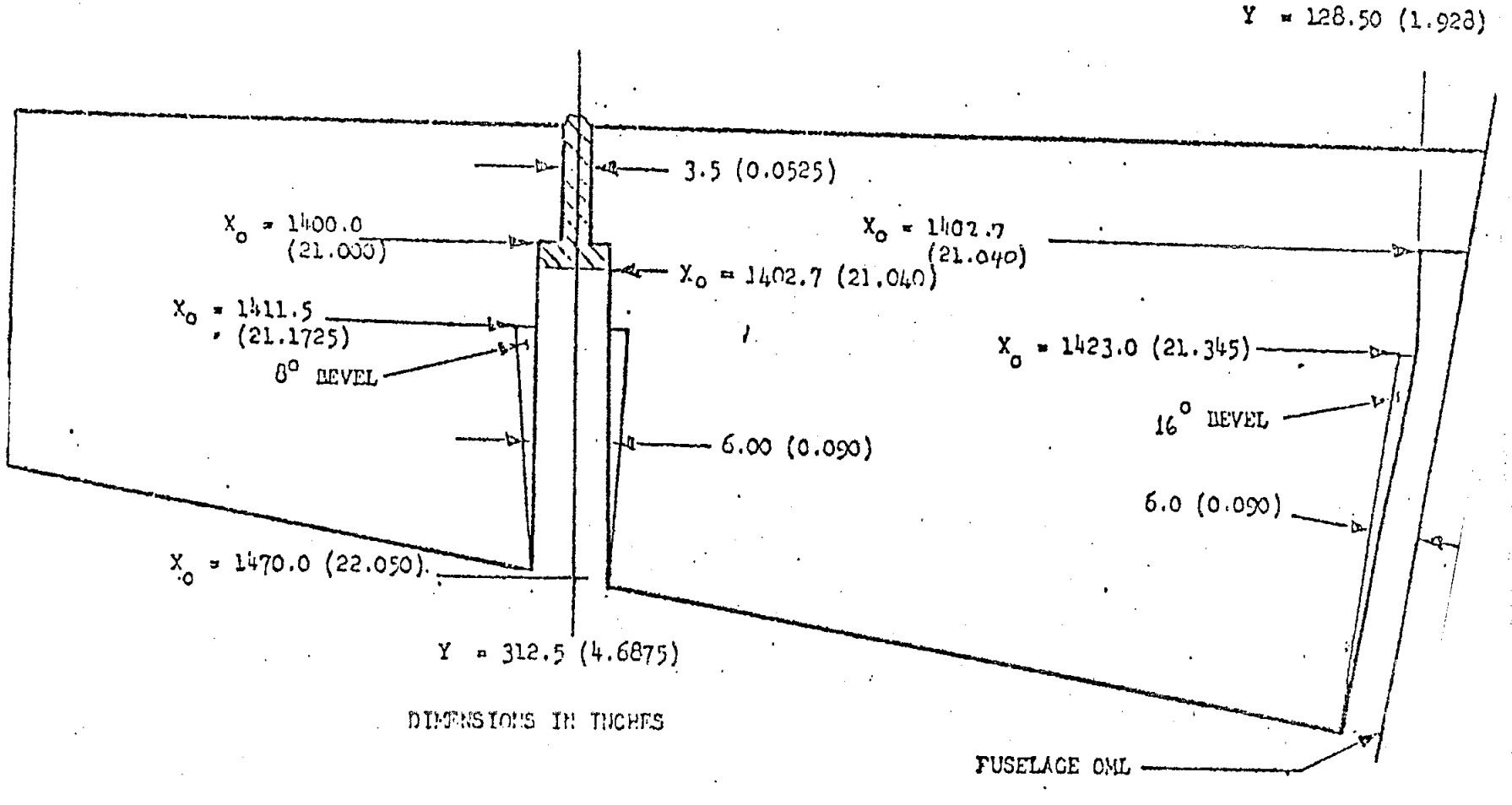


Figure 1. - Axis Systems.

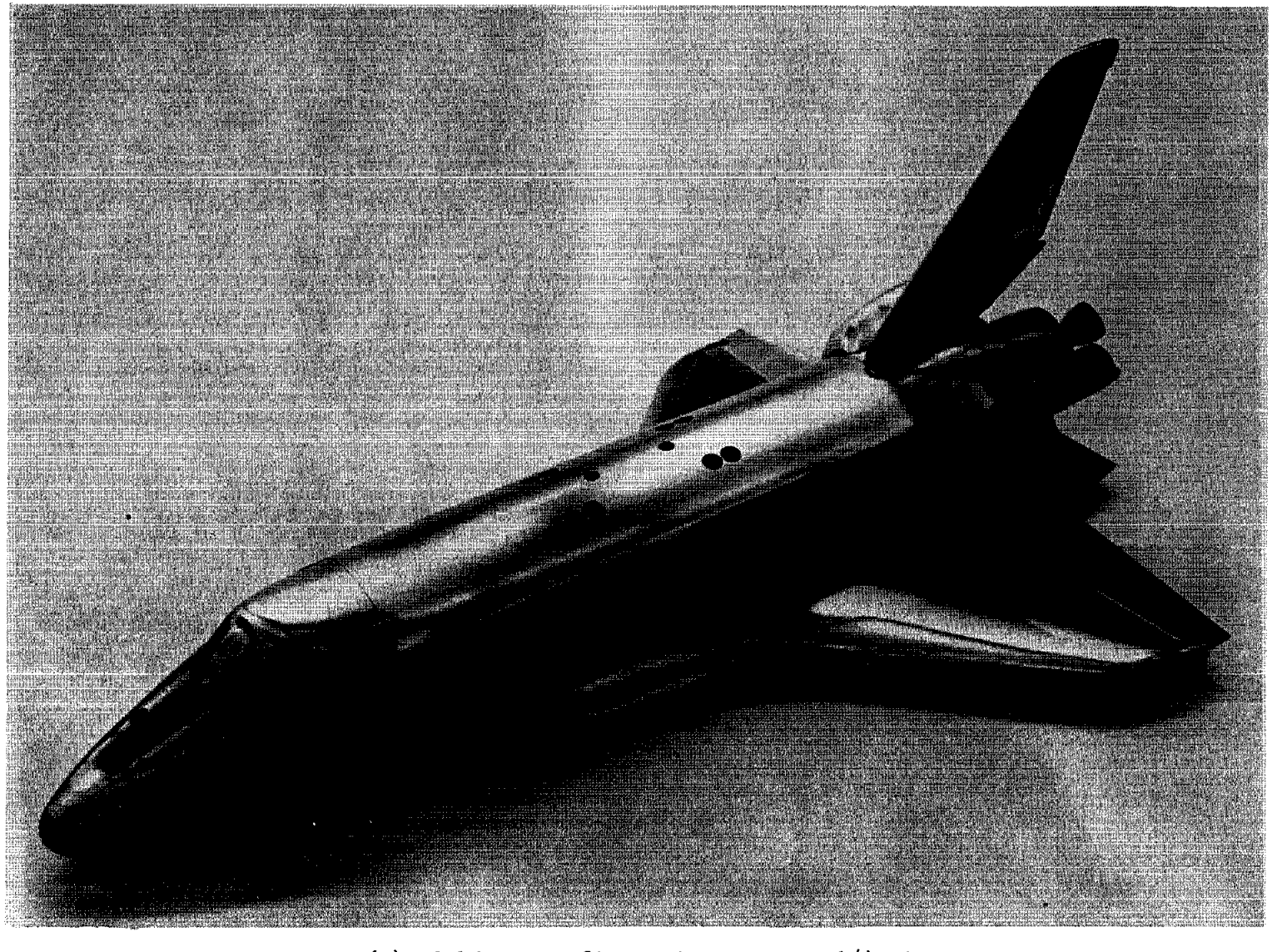


(a) SSV Orbiter Configuration

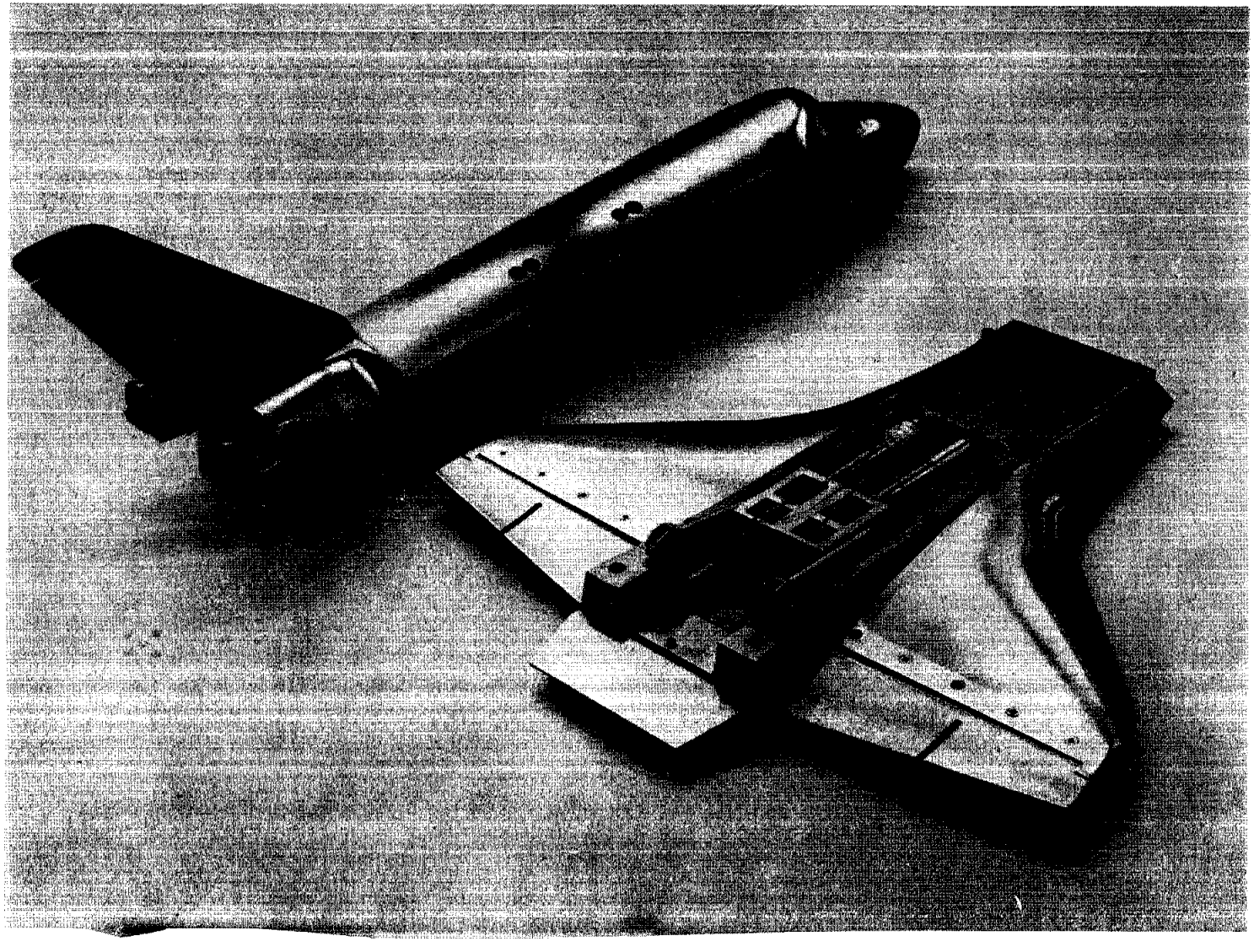
Figure 2. - Model sketches.



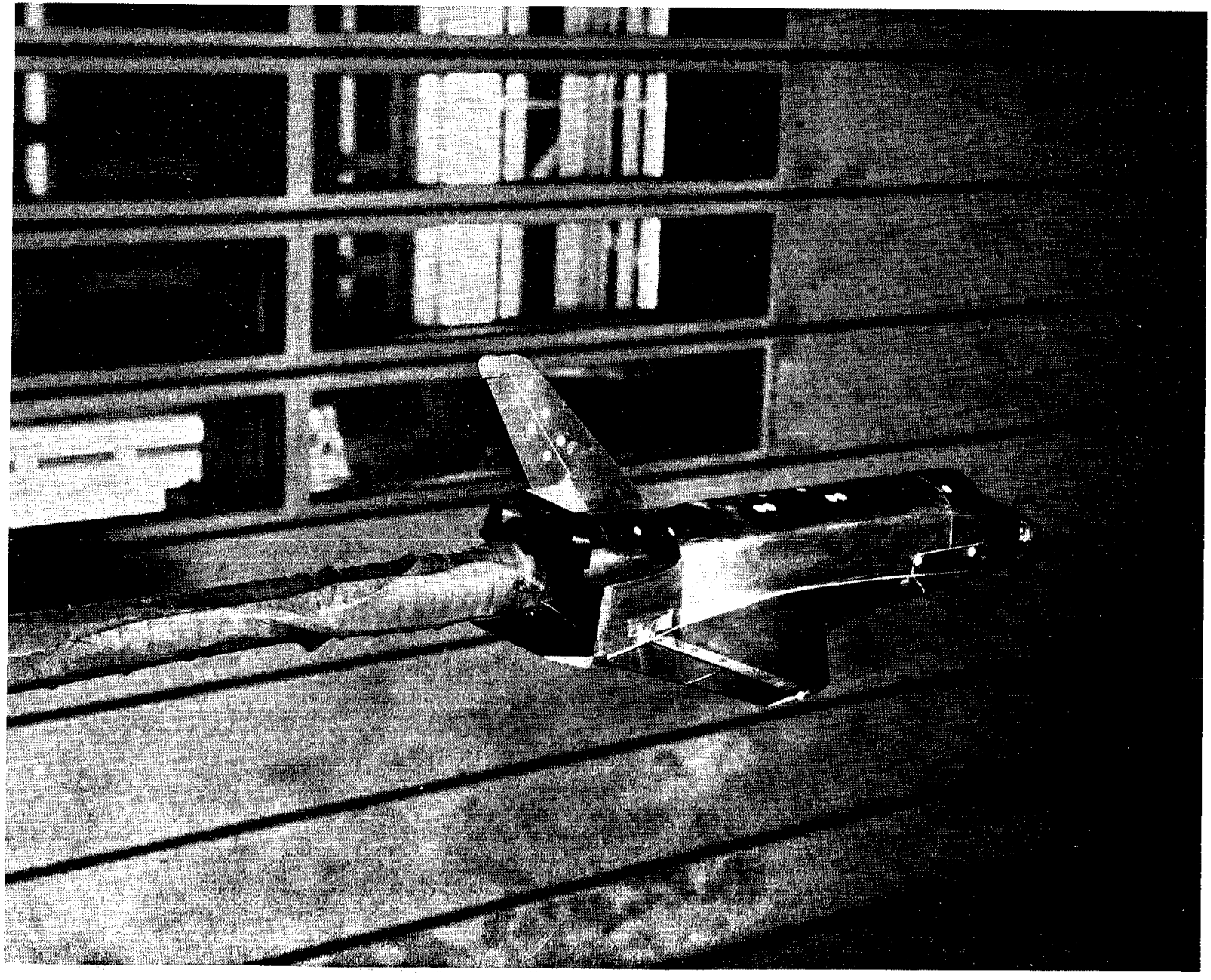
(b) Slotted Elevon E_{43} (6-inch gap)
Figure 2. - Continued.



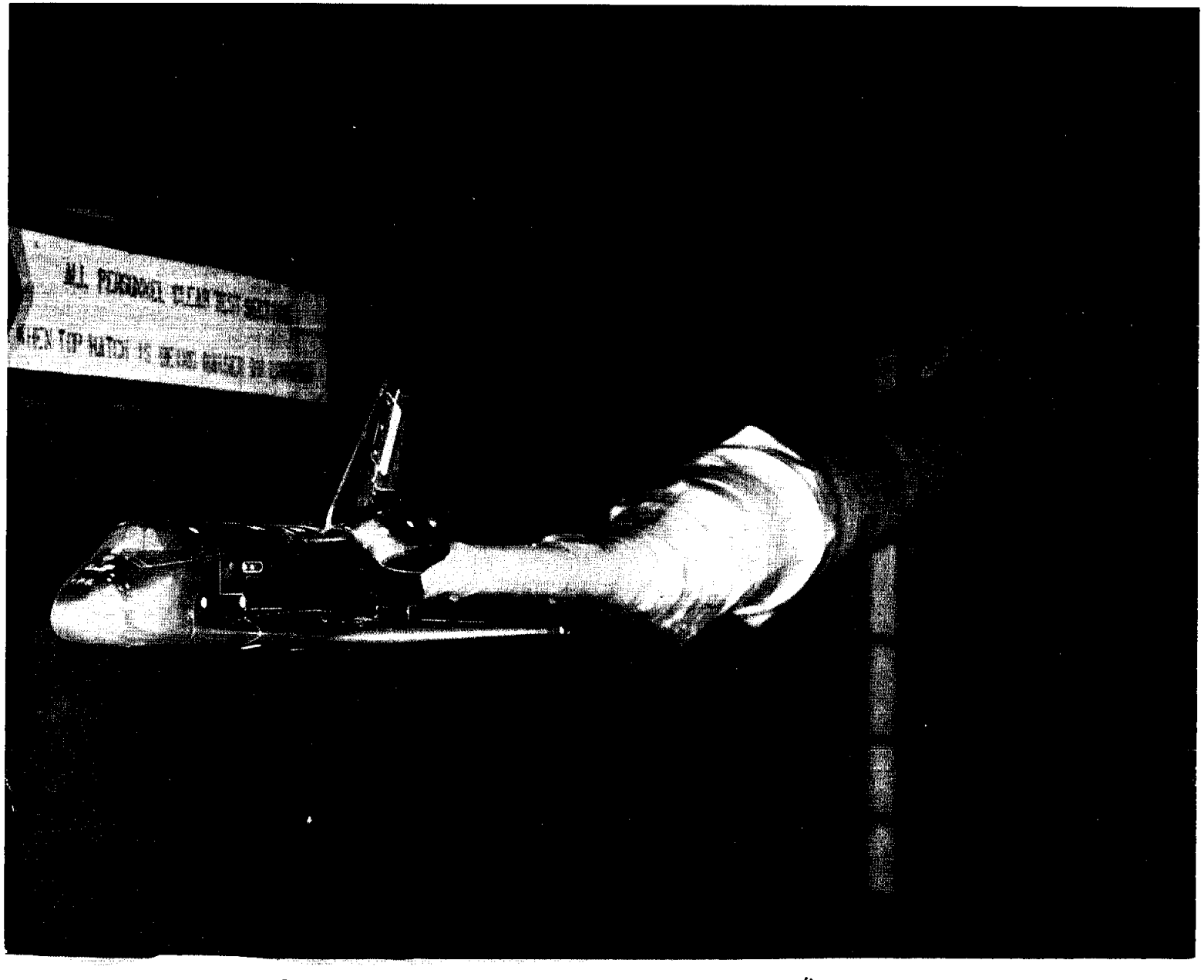
(a) Orbiter Configuration, Front, 3/4 View
Figure 3. Model Photographs



(b) Orbiter Configuration, Rear, 3/4 View
Figure 3. Concluded.



c. Model Installation Photograph, Rear 3/4 View
Figure 3. - Continued



d. Model installation Photograph, Front 3/4 View
Figure 3. - Concluded

DATA FIGURES

Tabulated Source Data are published in Volume 2.

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C2B001 CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	MACH
○	.596
□	.901
◇	.950
△	1.048
◁	1.115
▷	1.198

PARAMETRIC VALUES

BETA	.000	BDFLAP	.000
ELEVON	.000		
AILRON	.000		
SPDBRK	25.000		
RUDDER	.000		

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

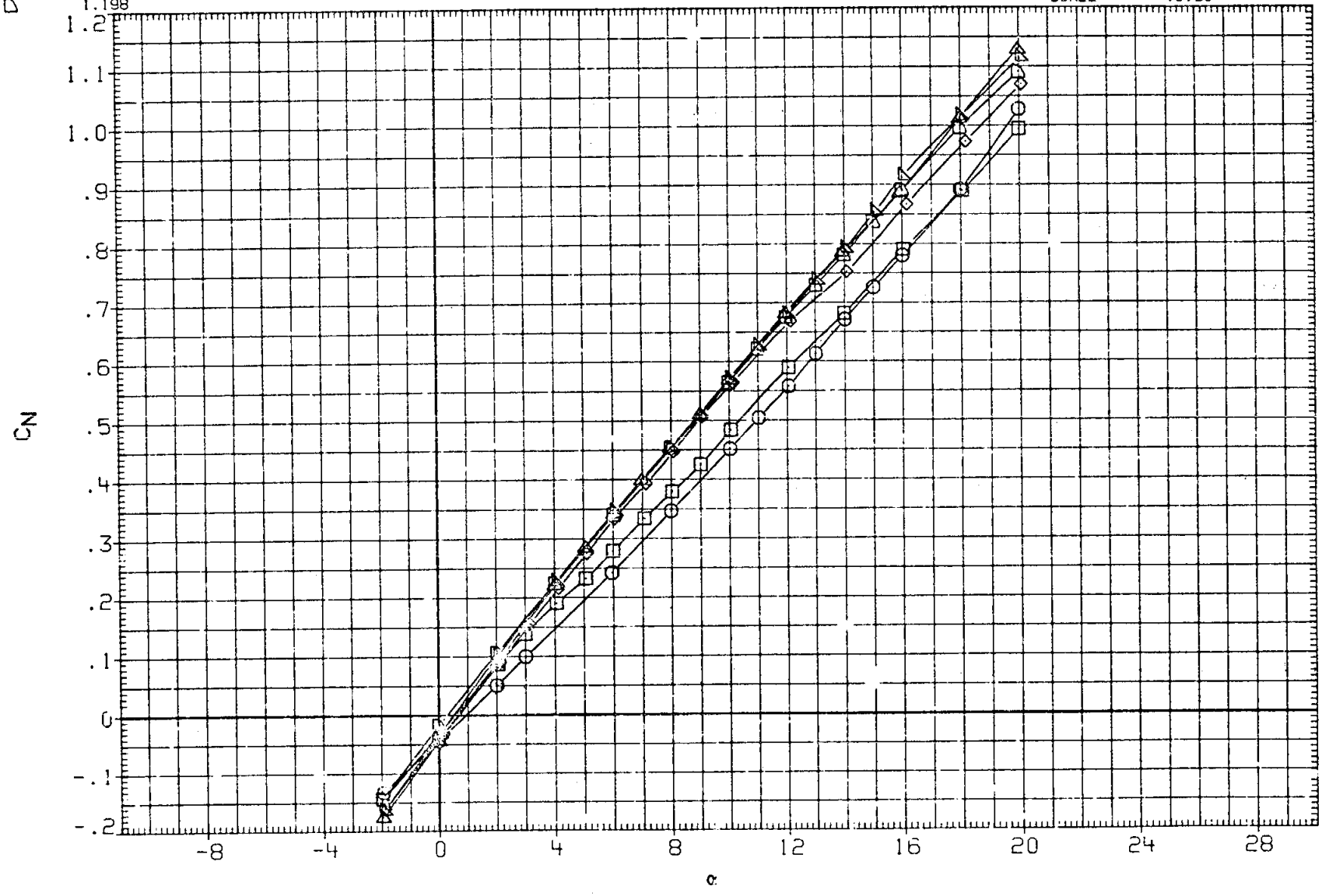

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

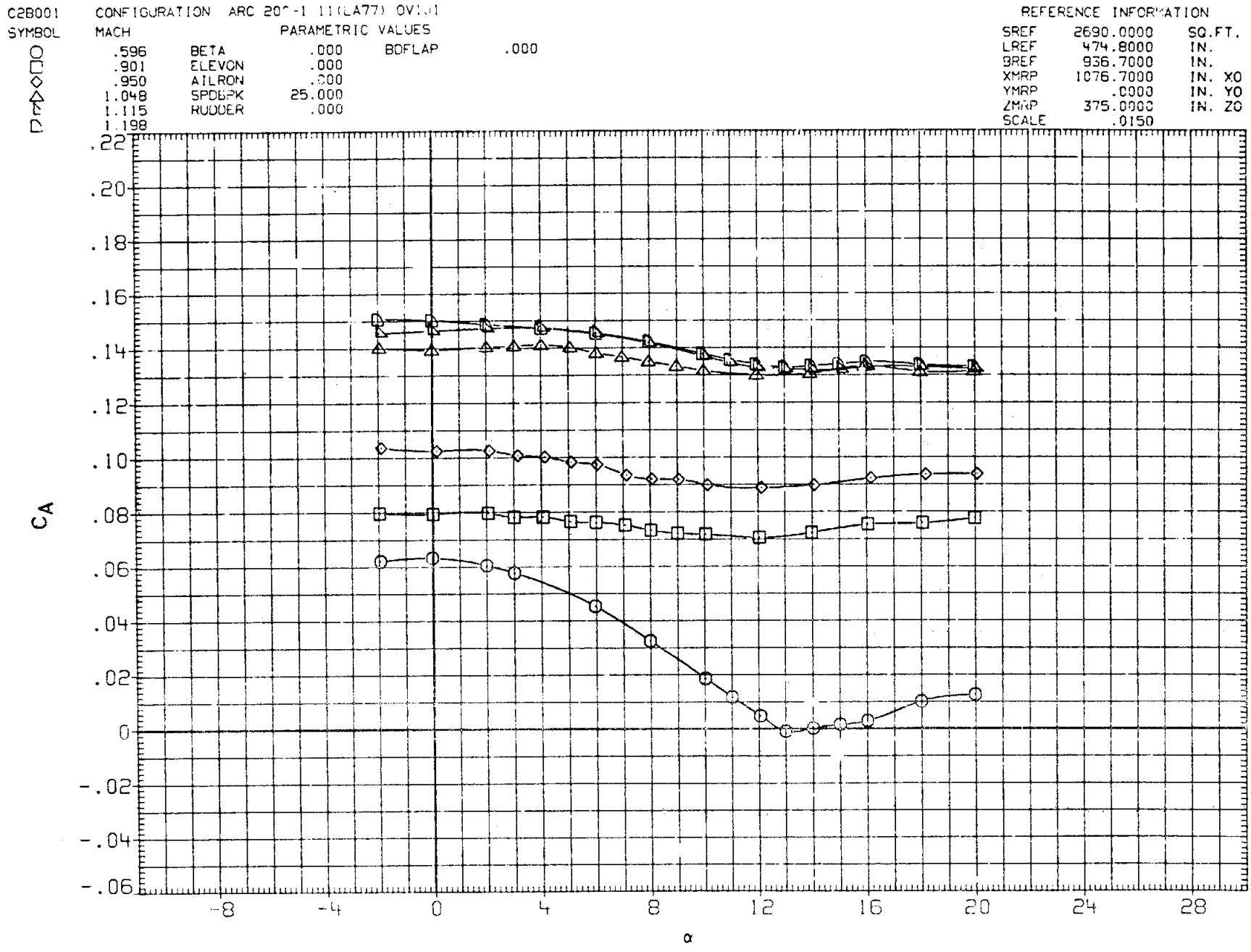

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

C2B001 CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	MACH
○	.596
□	.901
◇	.950
△	1.048
◁	1.115
▷	1.198

PARAMETRIC VALUES

BETA	.000	BDFLAP	.000
ELEVON	.000		
AILRON	.000		
SPDBRK	25.000		
RUDDER	.000		

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

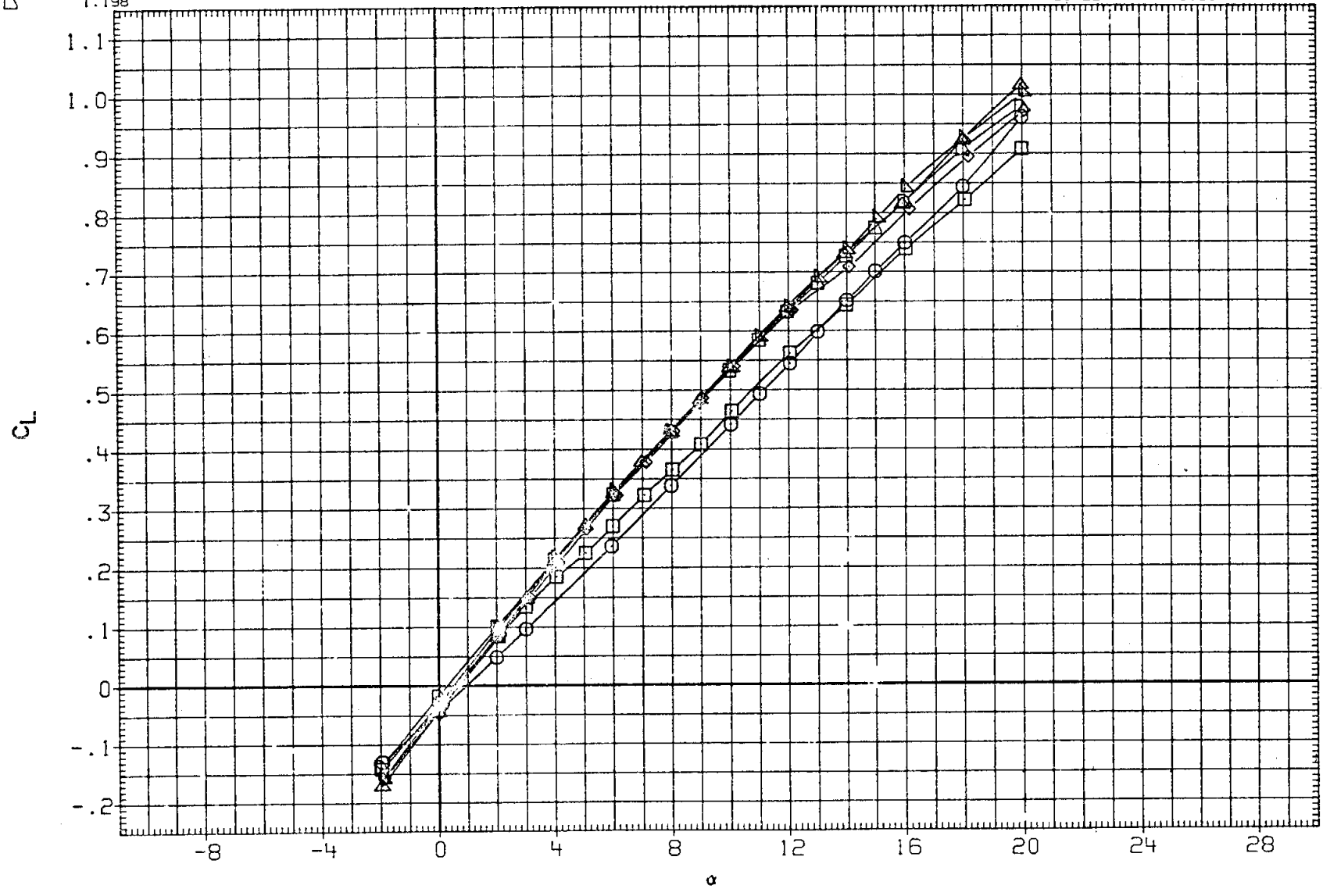

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

C2B001 CONFIGURATION ARC 200-I 11(LA77) OV101

SYMBOL	MACH
○	.595
□	.901
◇	.950
△	1.048
△	1.115
△	1.198

PARAMETRIC VALUES

BETA	.000	BDFLAP	.000
ELEVON	.000		
AILRON	.000		
SPDBRK	25.000		
RUDDER	.000		

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

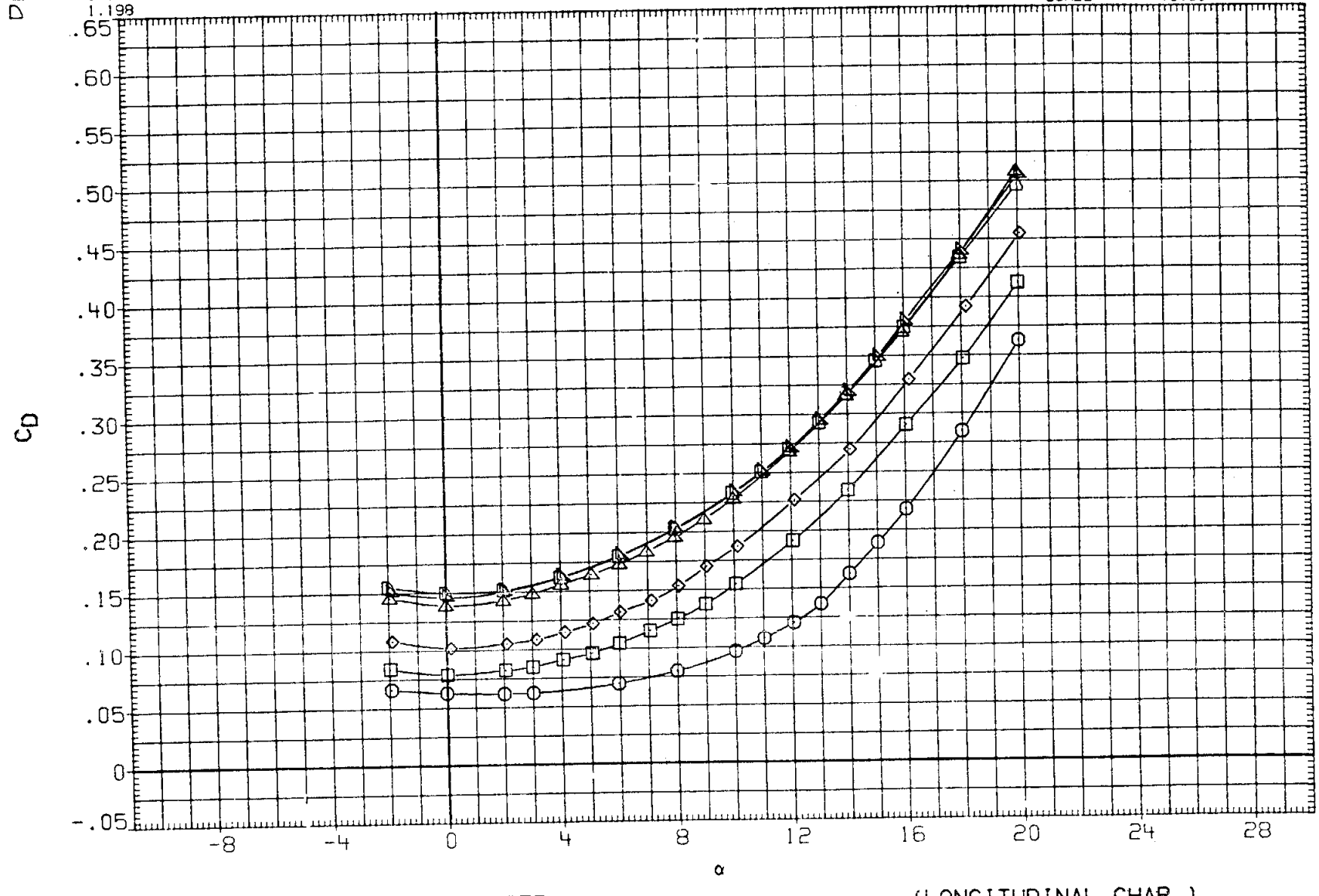

FIG. 4 EFFECT OF MACH NUMBER

(LONGITUDINAL CHAR.)

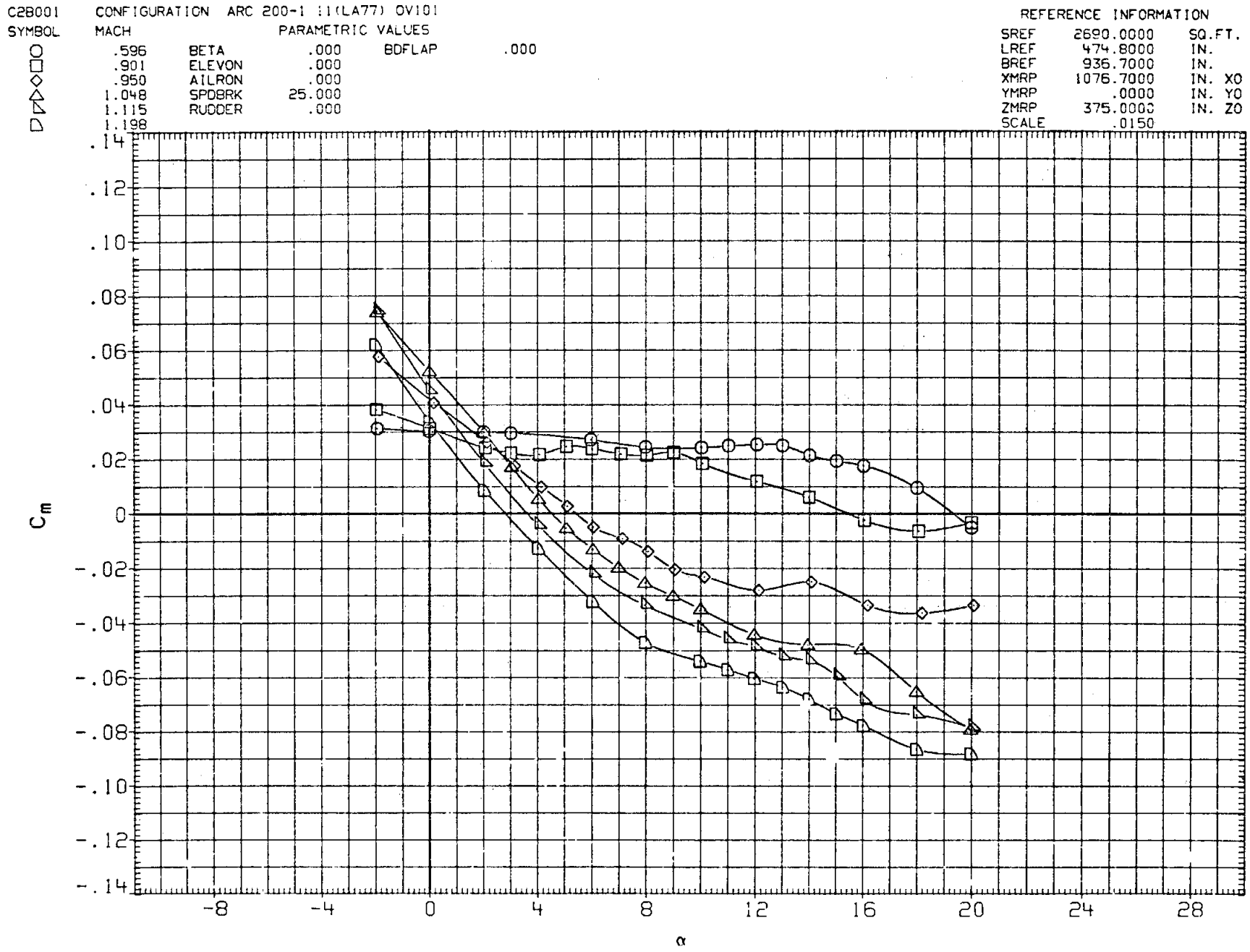

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

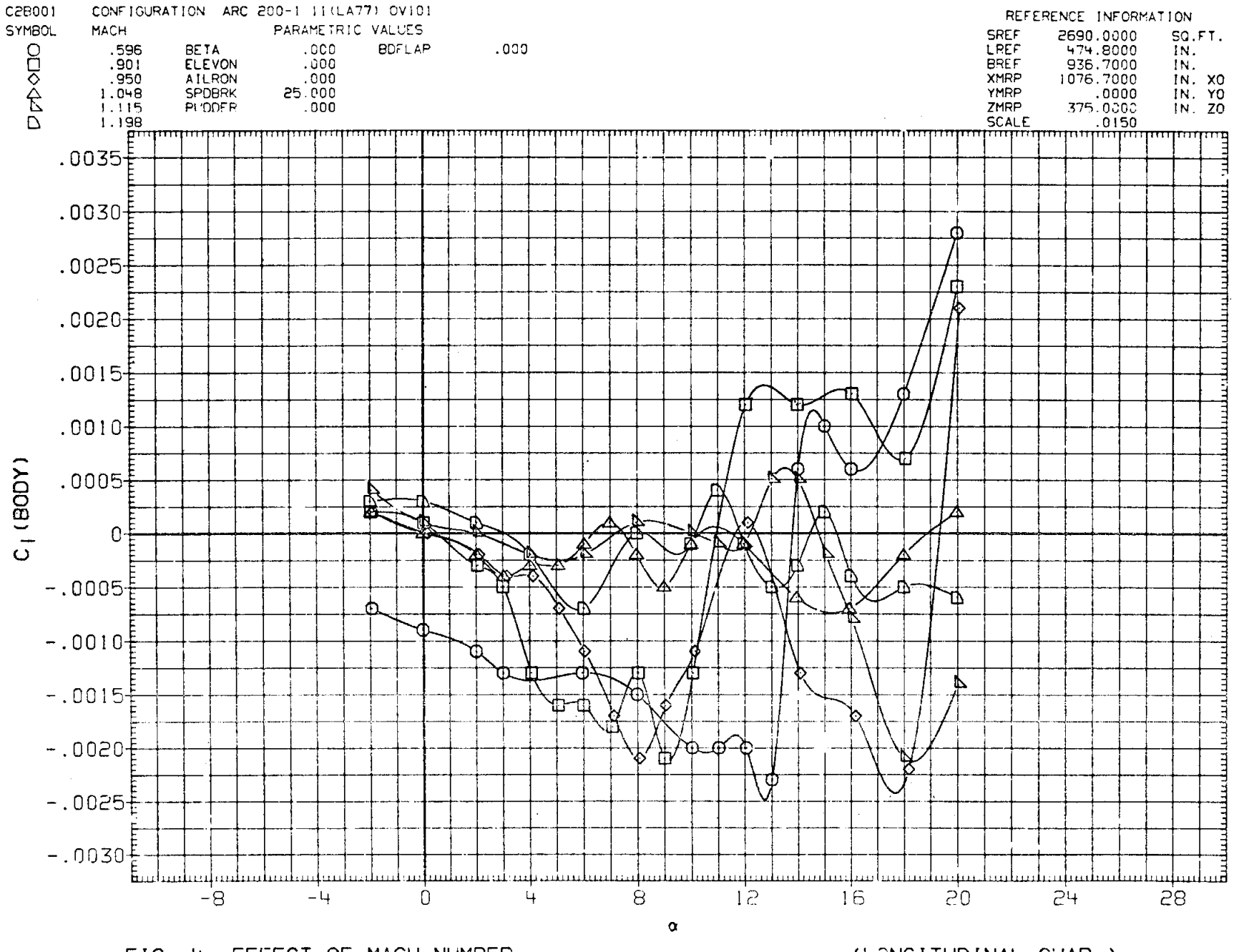

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

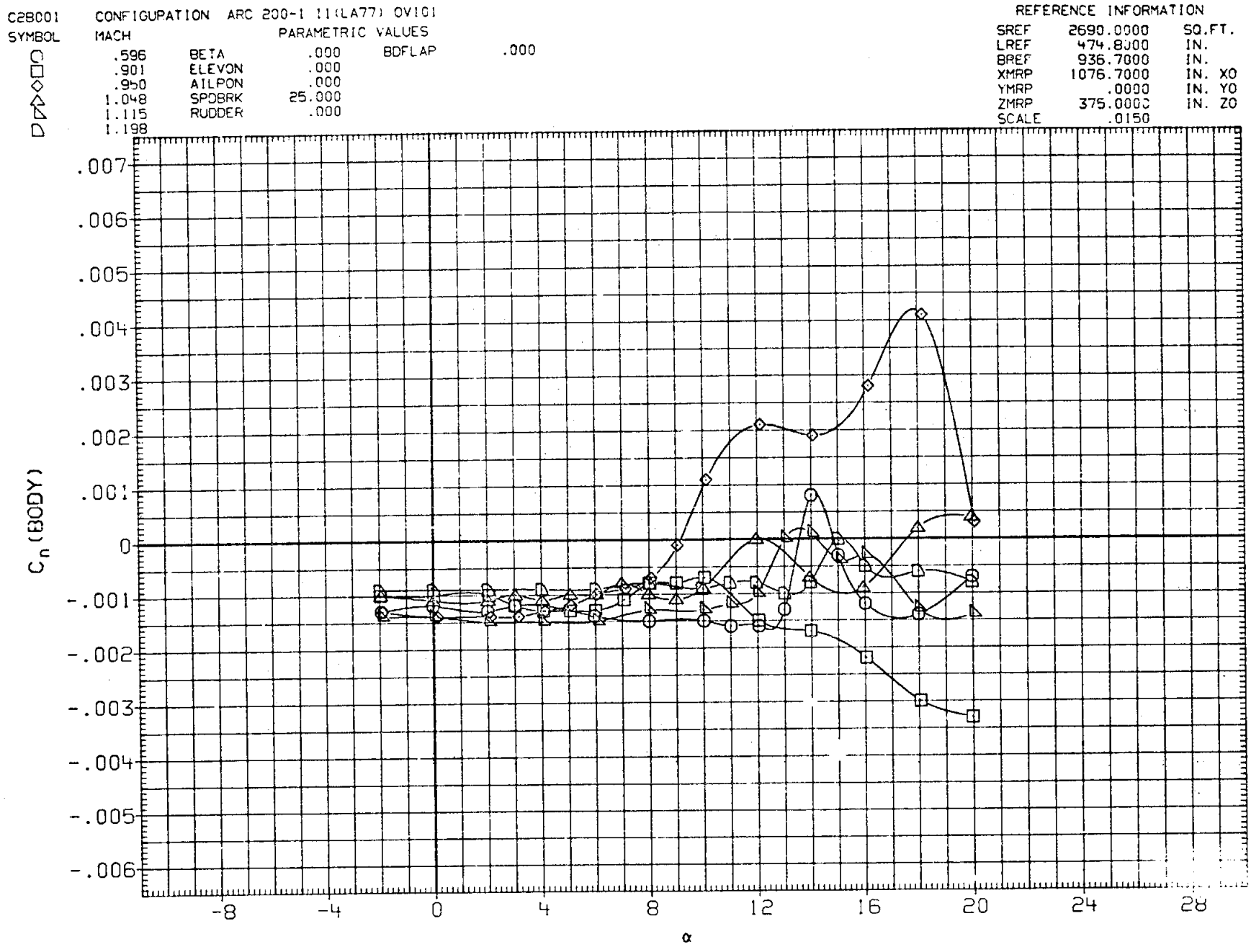

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

C2B001 CONFIGURATION ARC 200-1 11(LA77) OV1G1

SYMBOL	MACH	PARAMETRIC VALUES			
○	.596	BETA	.000	BDFLAP	.000
□	.901	ELEVON	.000		
◇	.950	AILRON	.000		
△	1.048	SPDBRK	25.000		
◺	1.115	RUDDEP	.000		
◿	1.198				

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

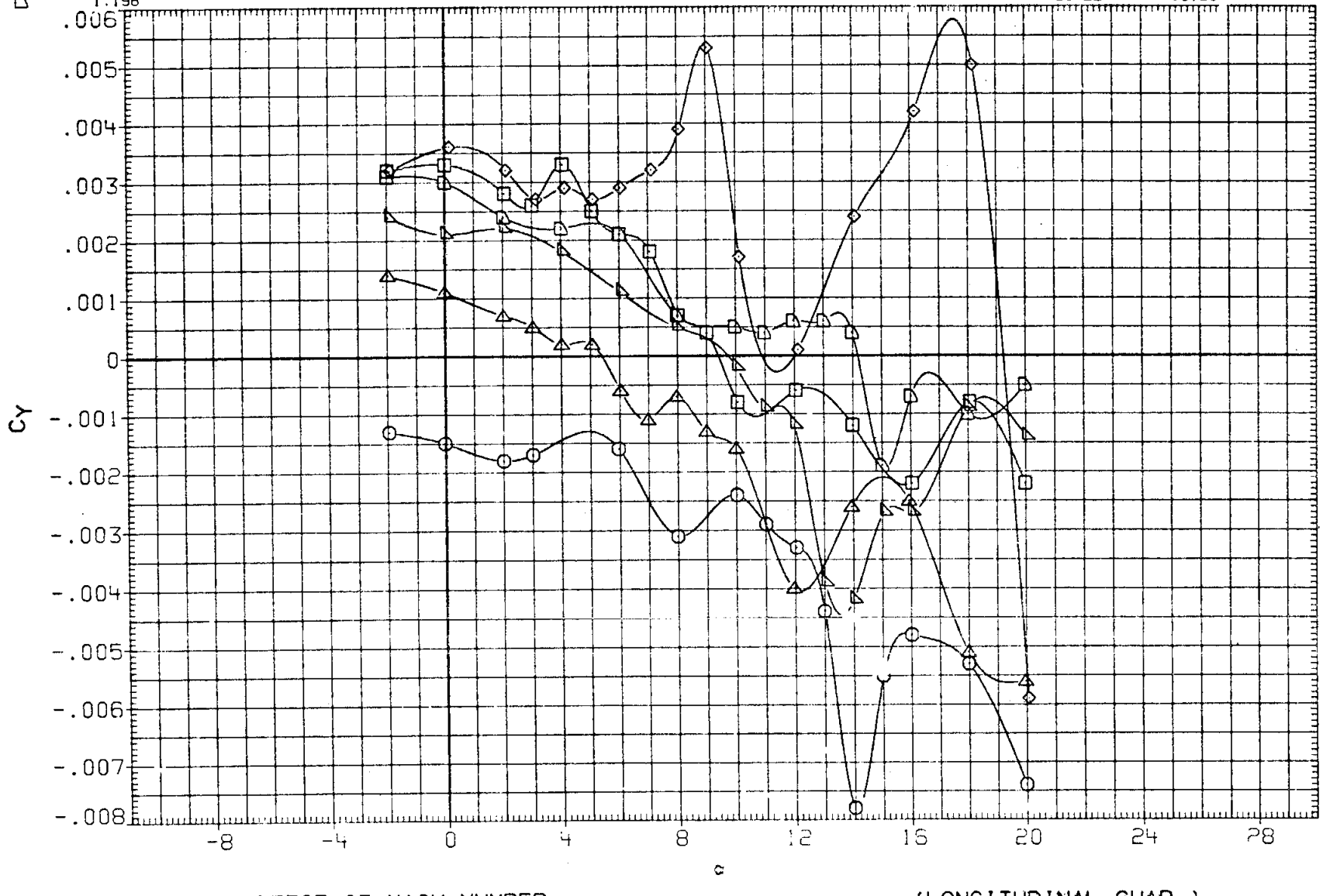

FIG. 4 EFFECT OF MACH NUMBER (LONGITUDINAL CHAR.)

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◸	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

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BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

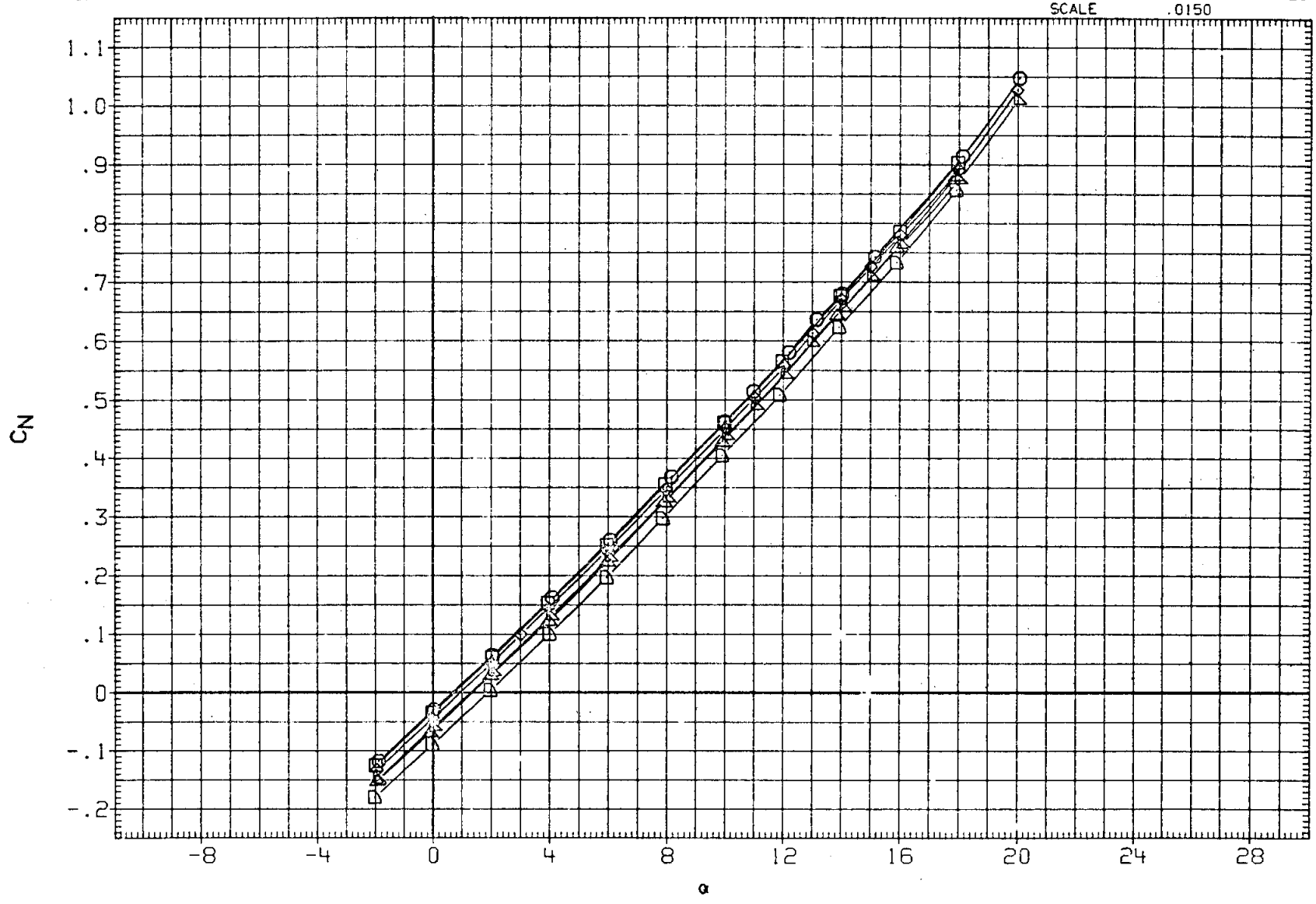

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R23103	○	ARC 200-1 11(LA77) OV101
R28168	□	ARC 200-1 11(LA77) OV101
R28018	◇	ARC 200-1 11(LA77) OV101
R28176	△	ARC 200-1 11(LA77) OV101
R28080	◺	ARC 200-1 11(LA77) OV101
R28184	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

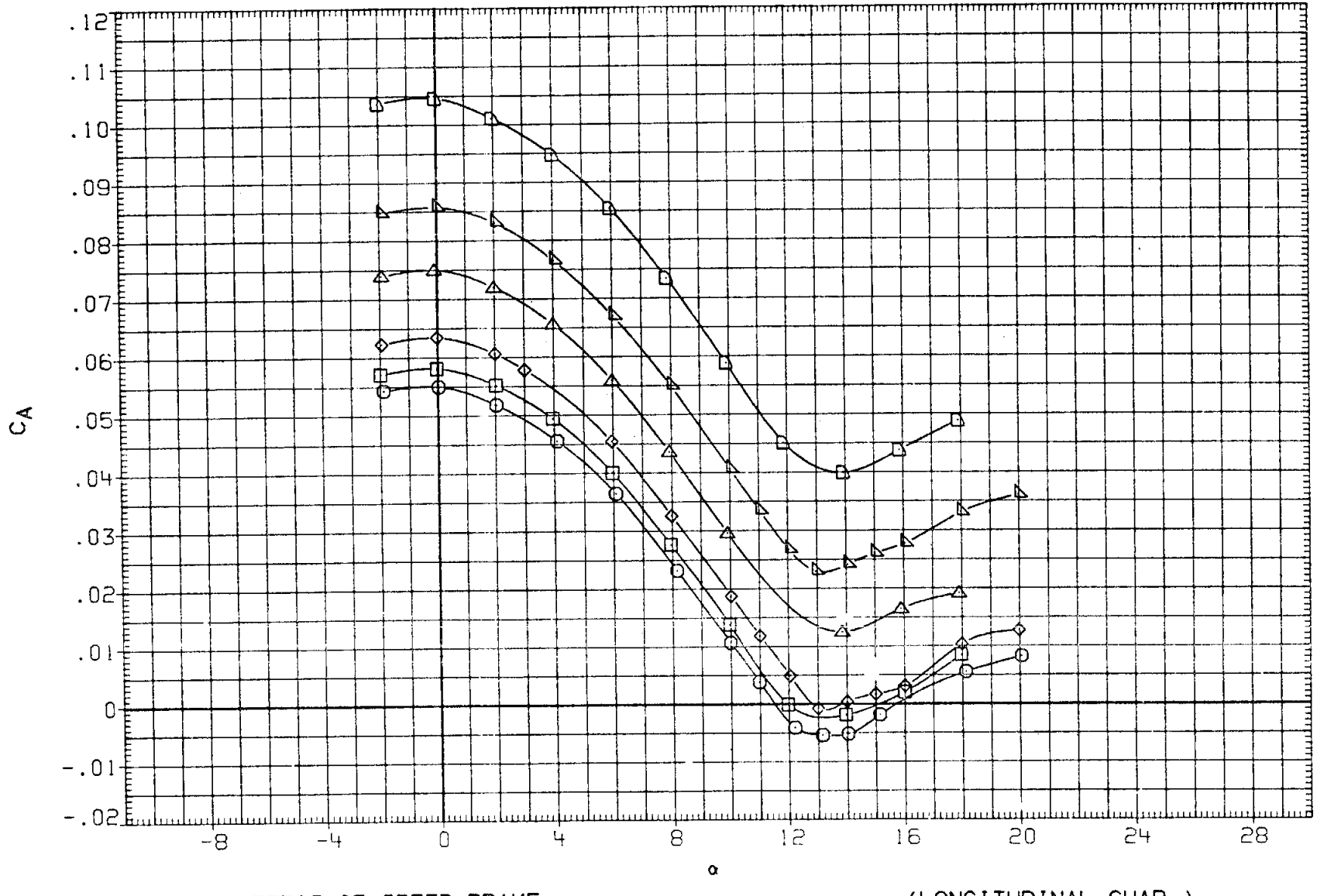

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

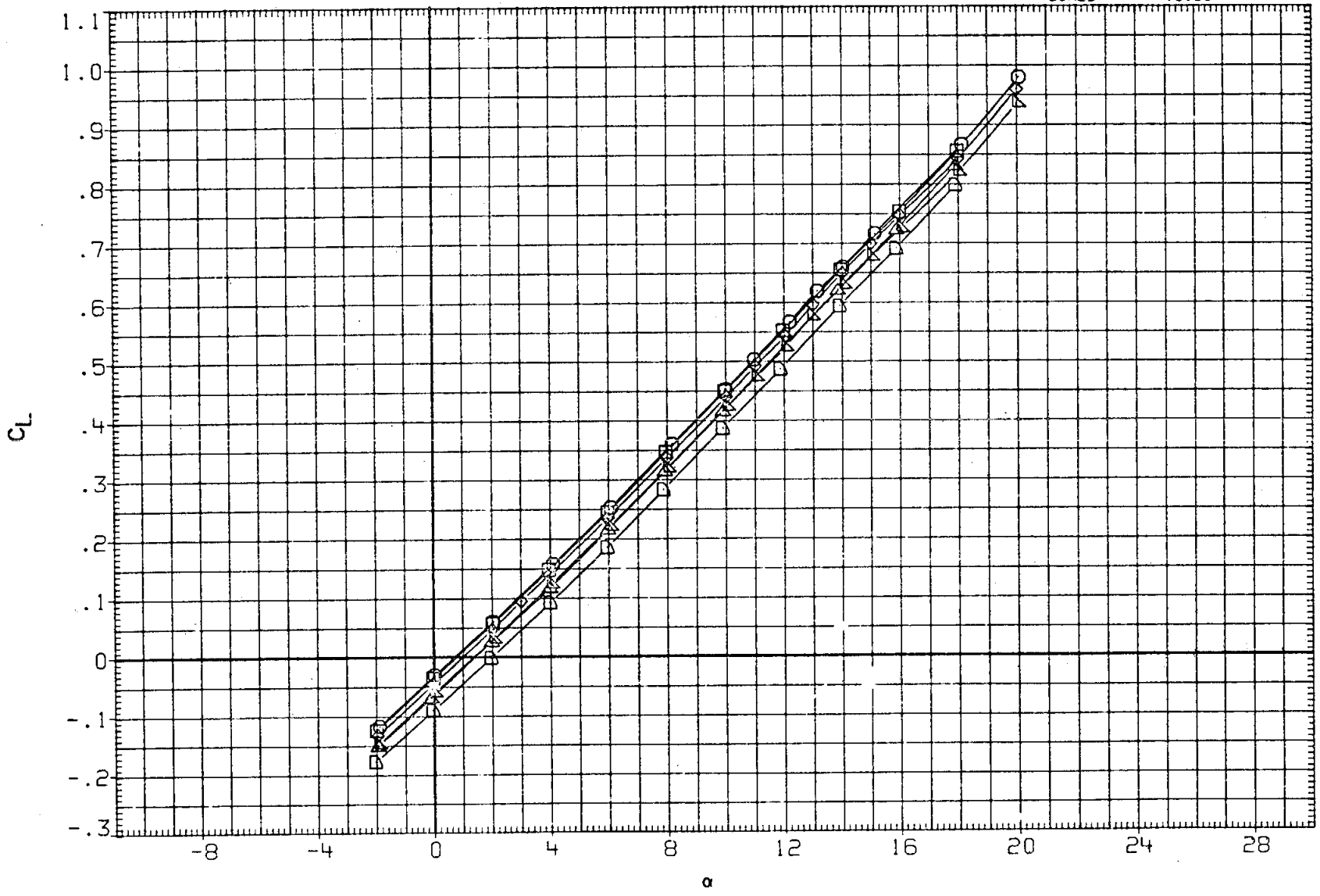

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	◗	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

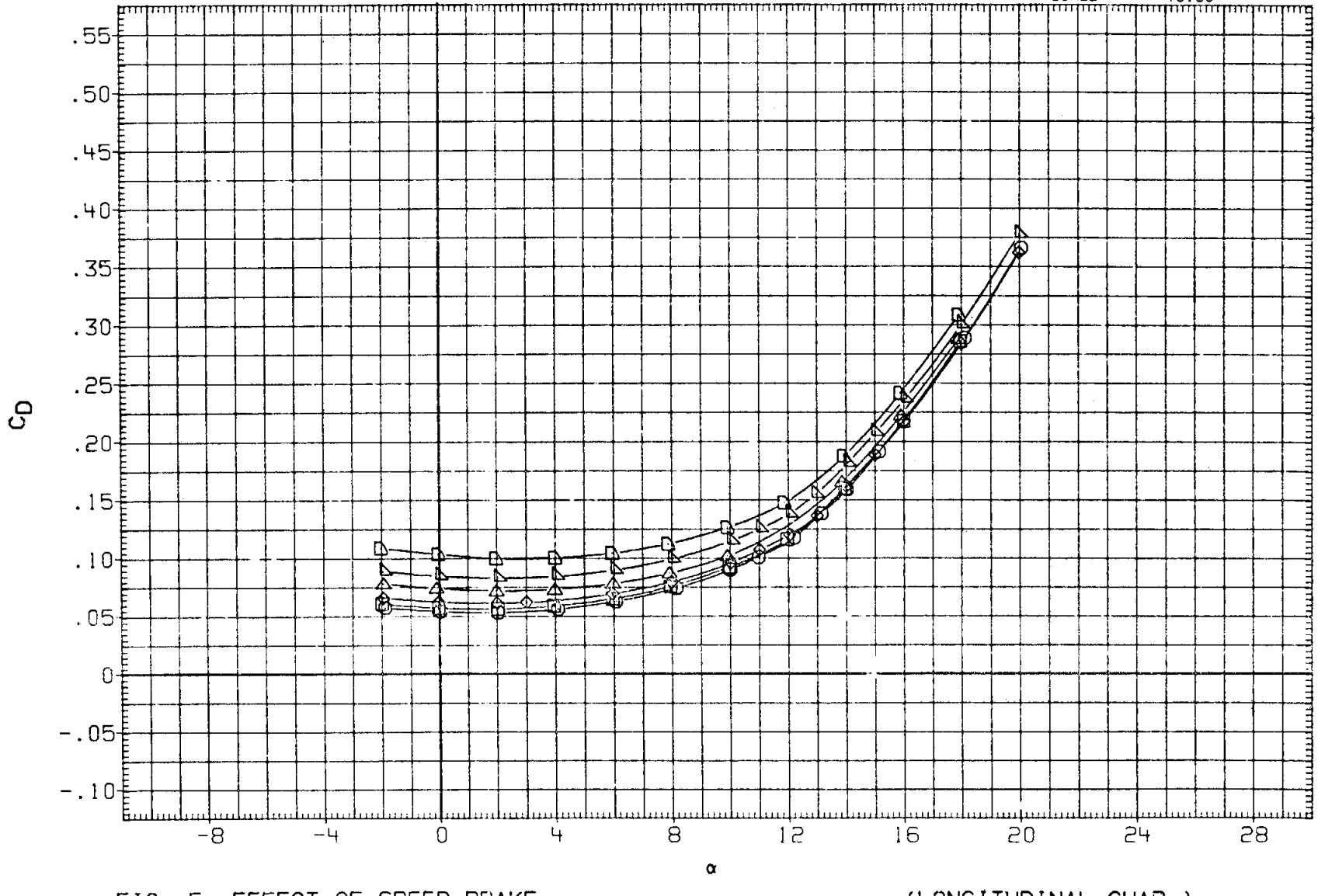

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B018	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	⬠	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

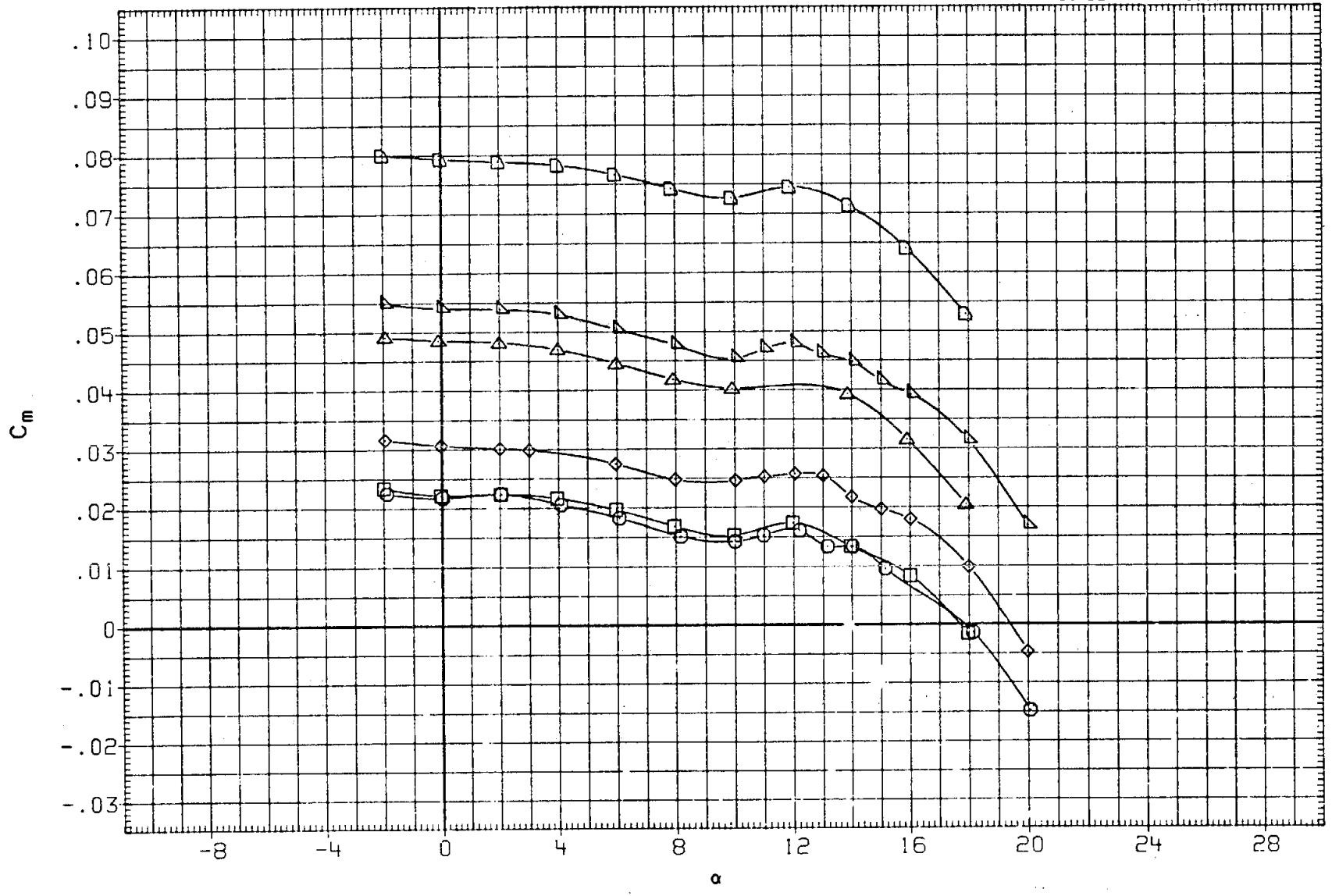

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B018	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	◻	ARC 200-1 11(LA77) OV101

SPOBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

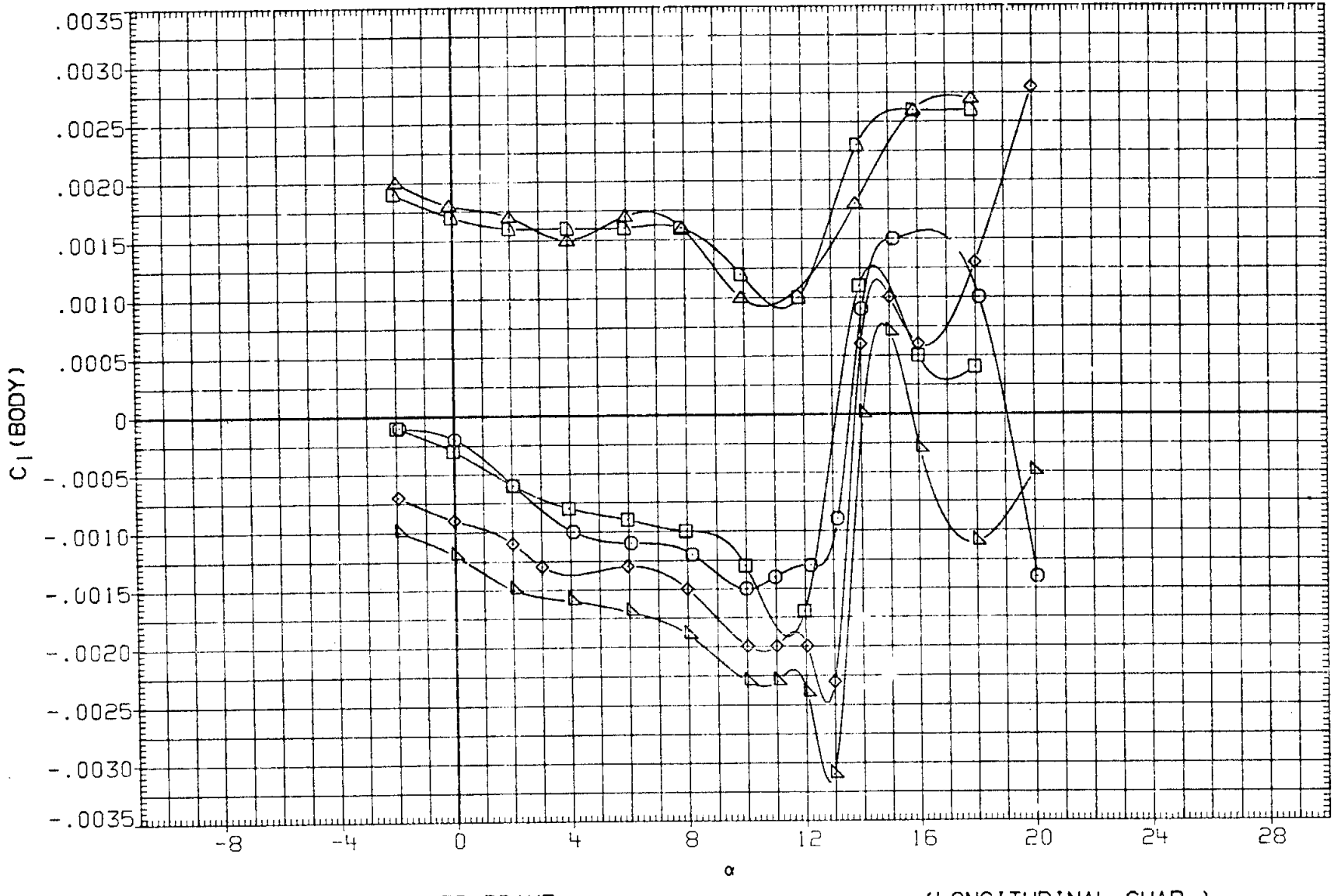

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B018	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

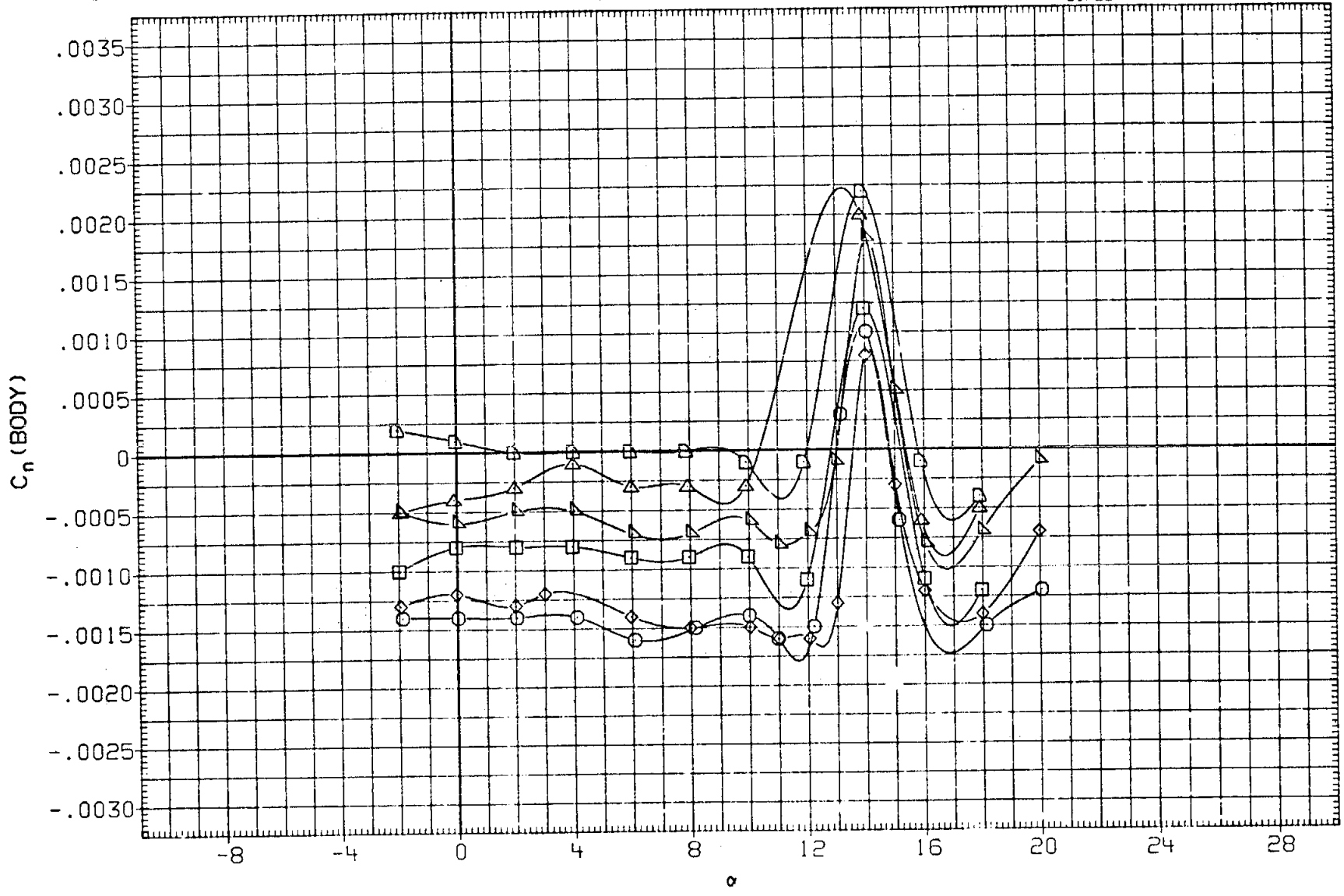

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B018	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.01E0	

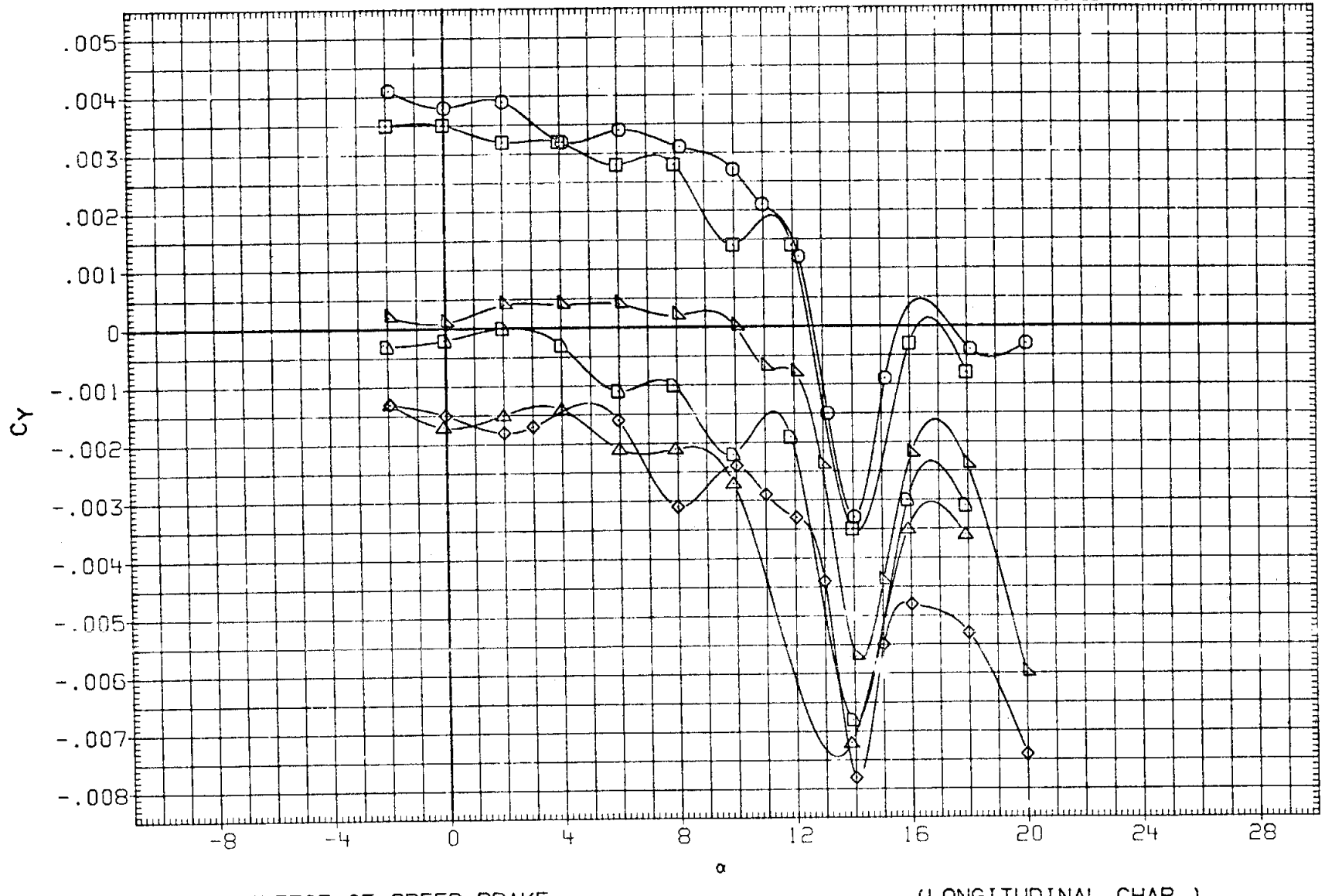

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

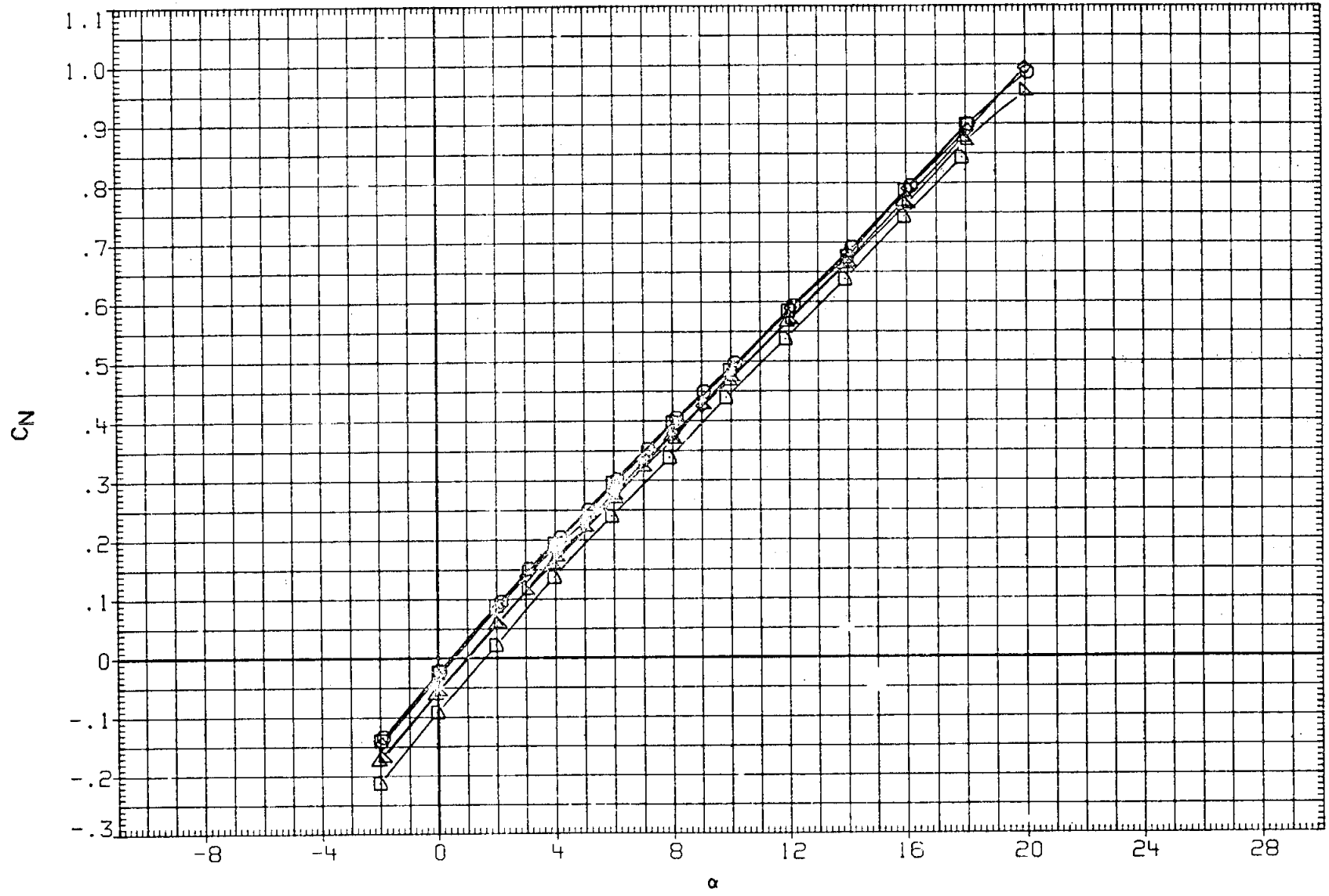

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

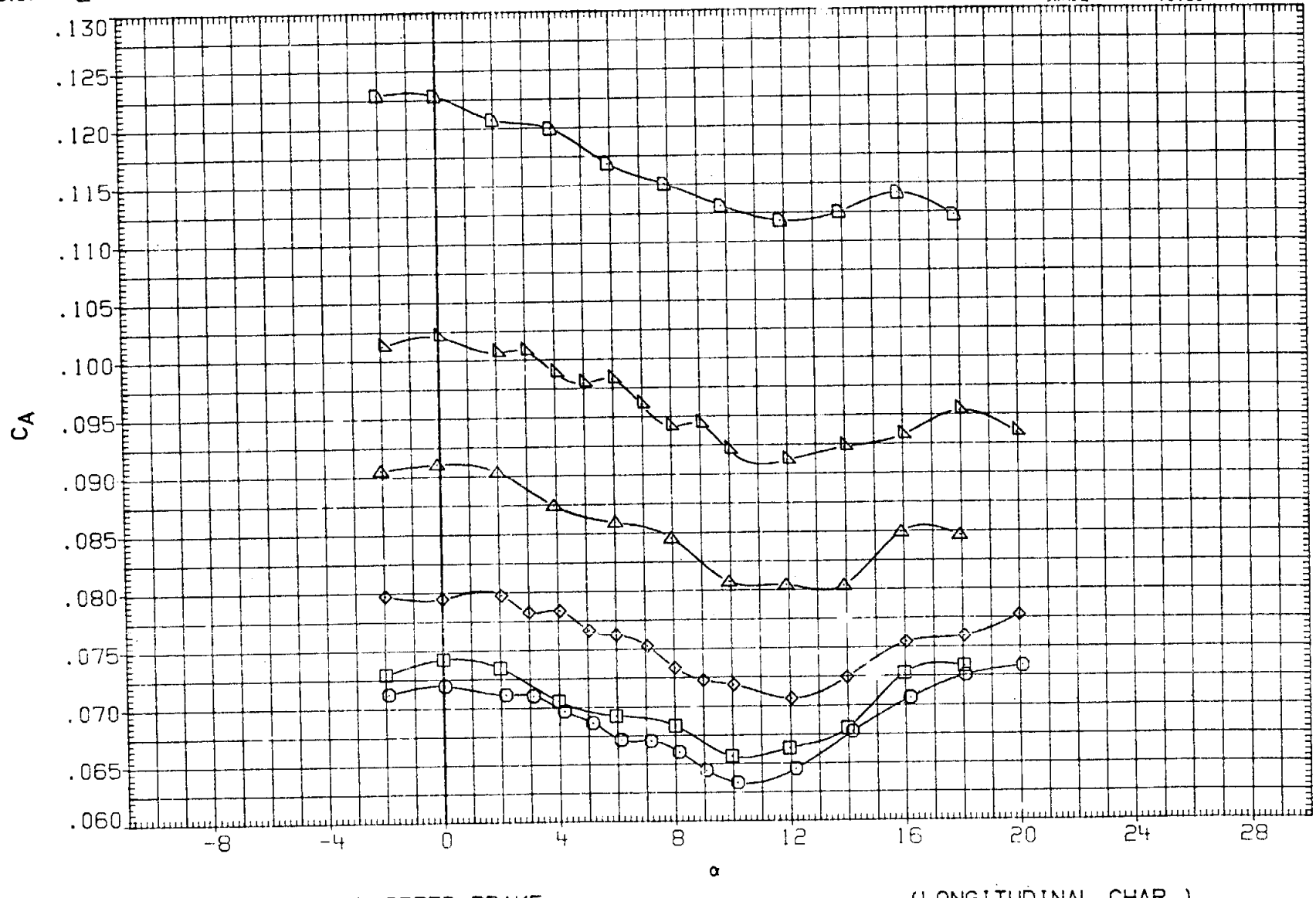

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

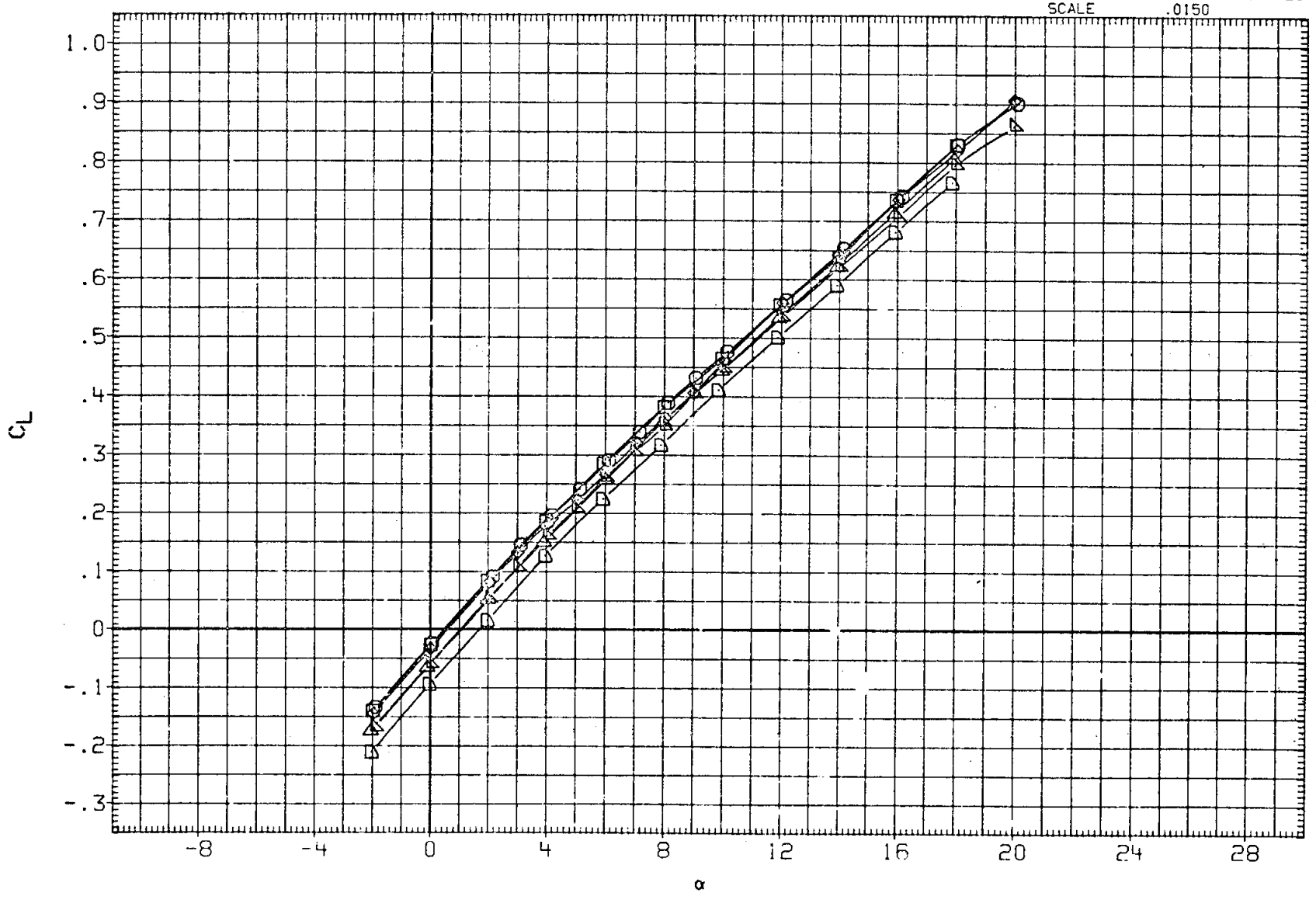

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

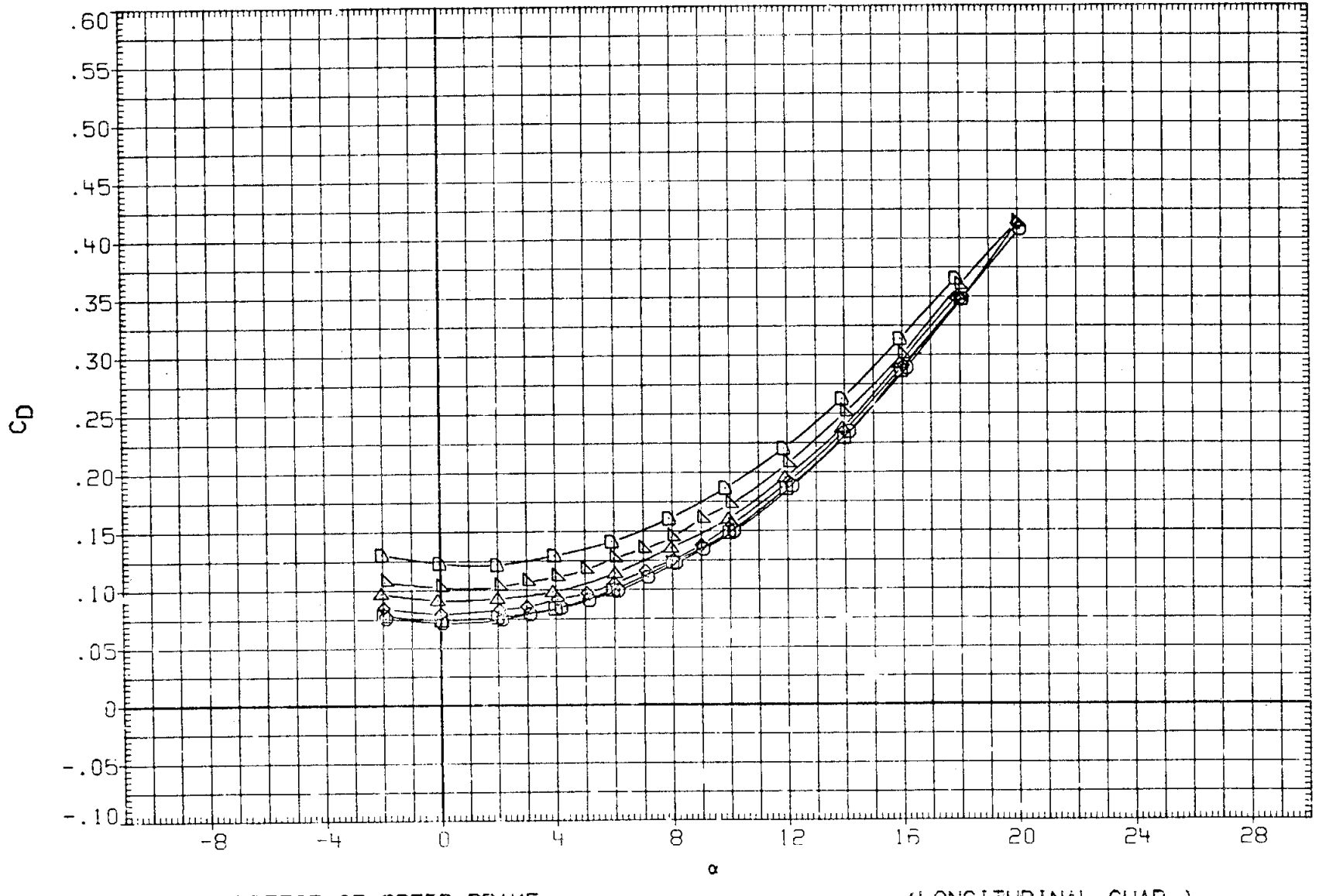

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BOFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	▷	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	930.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

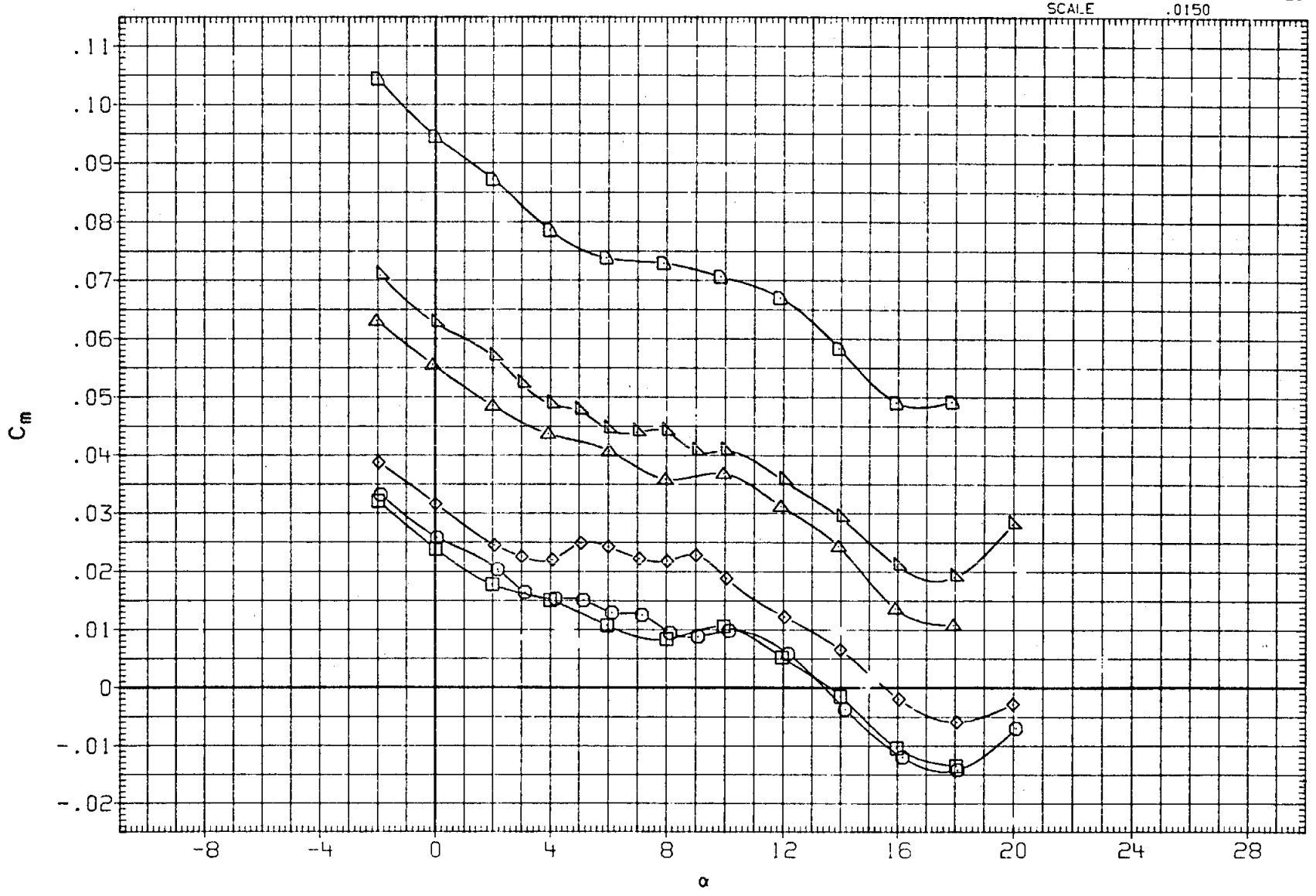

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

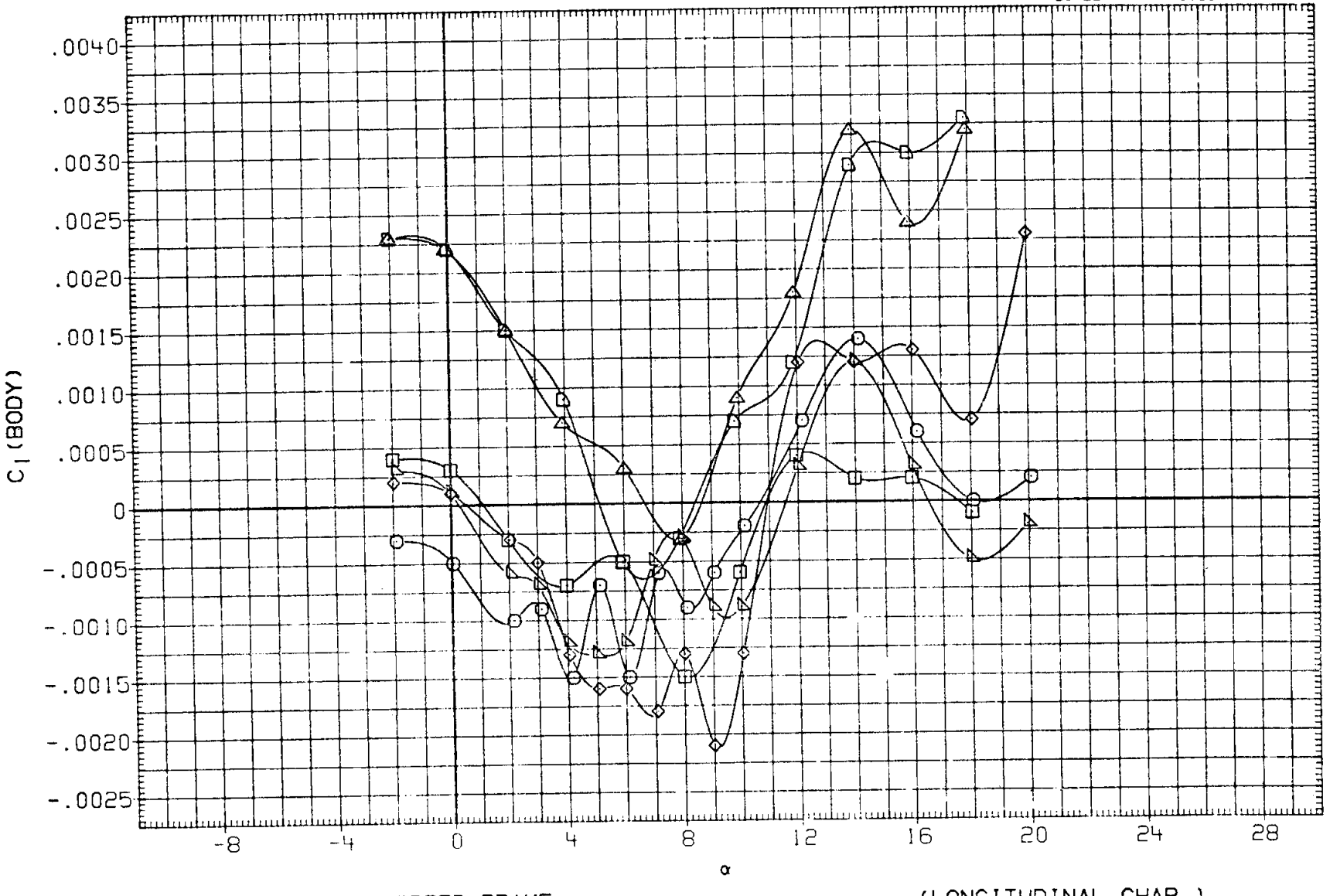

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	⊐	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

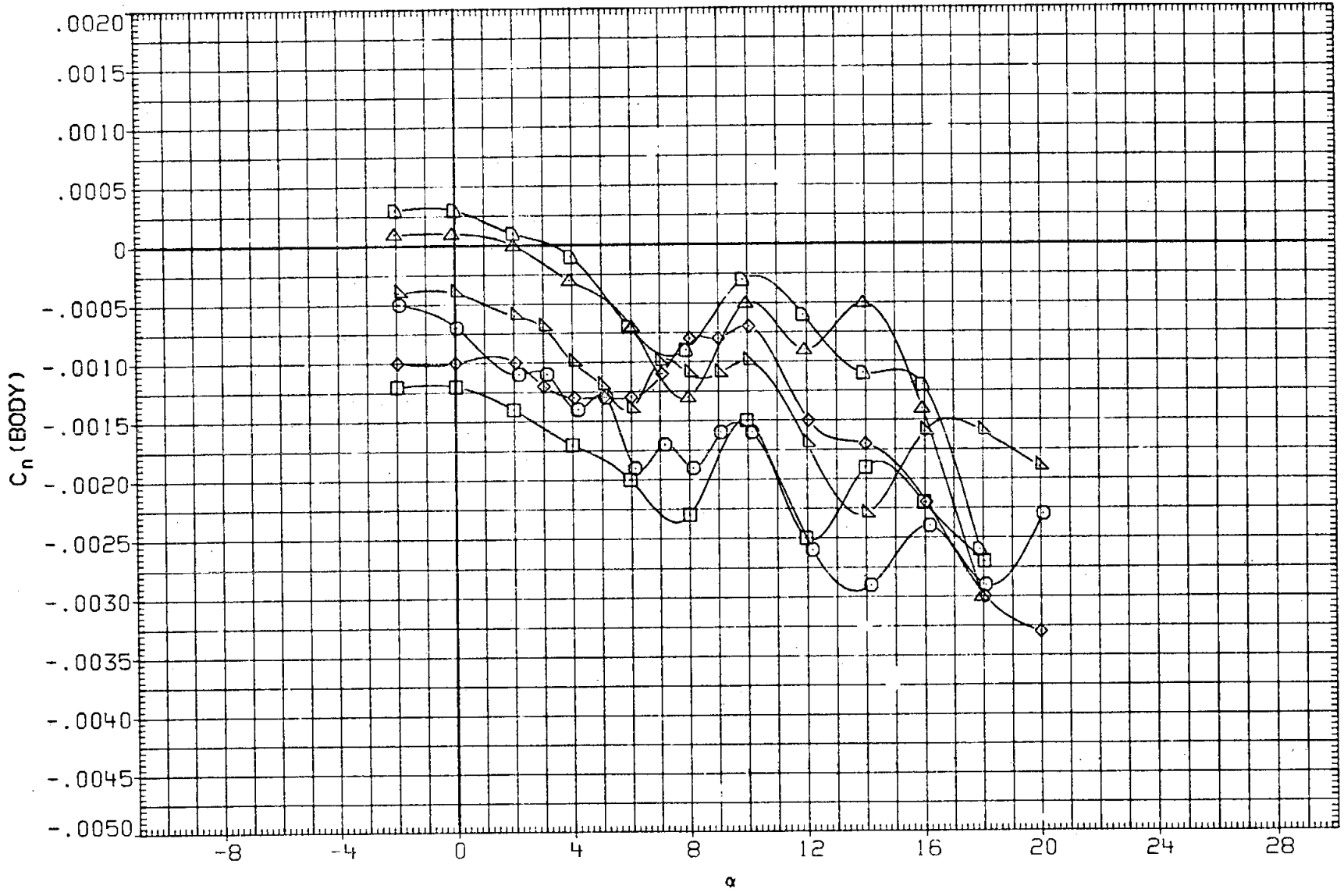

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	◻	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

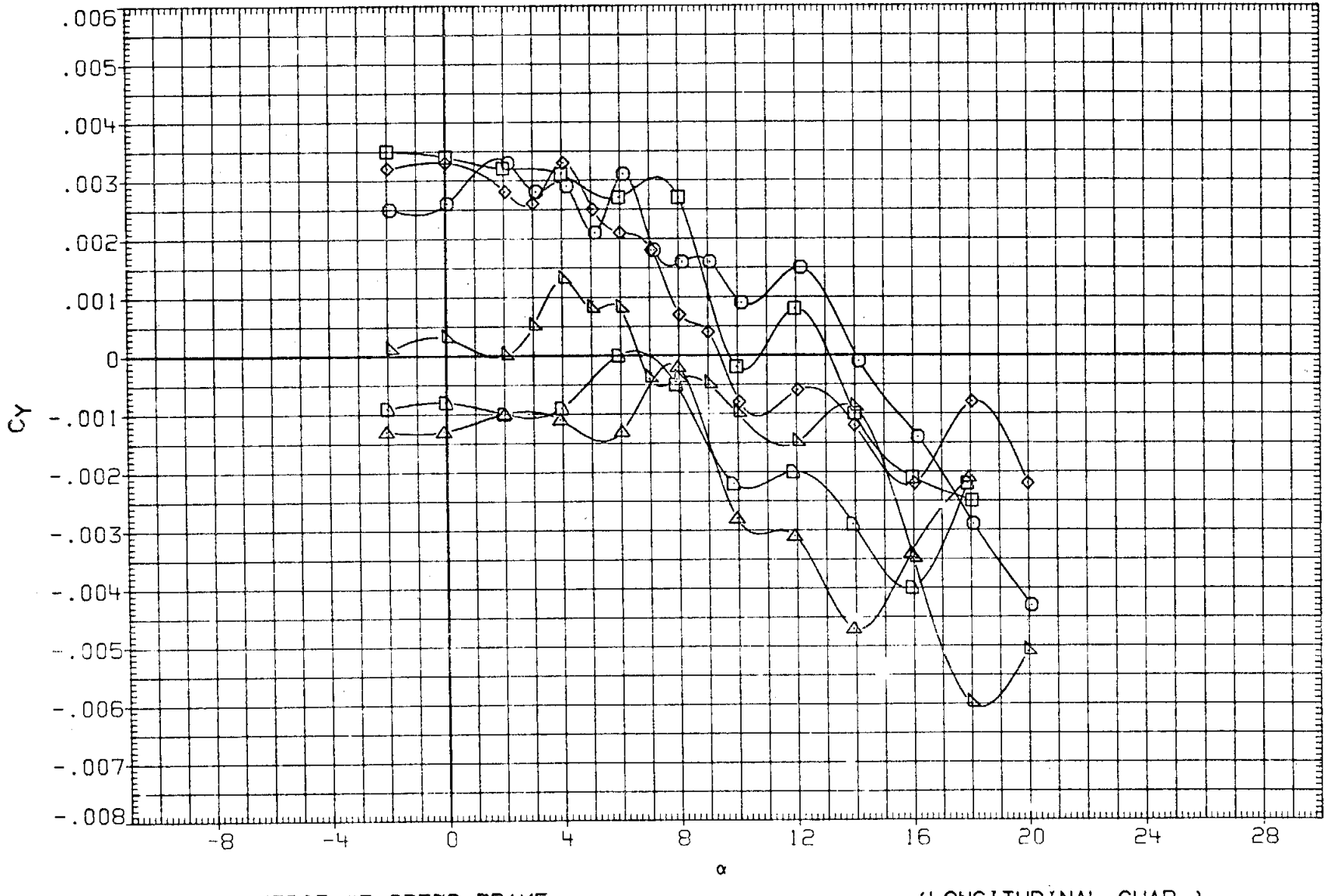

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

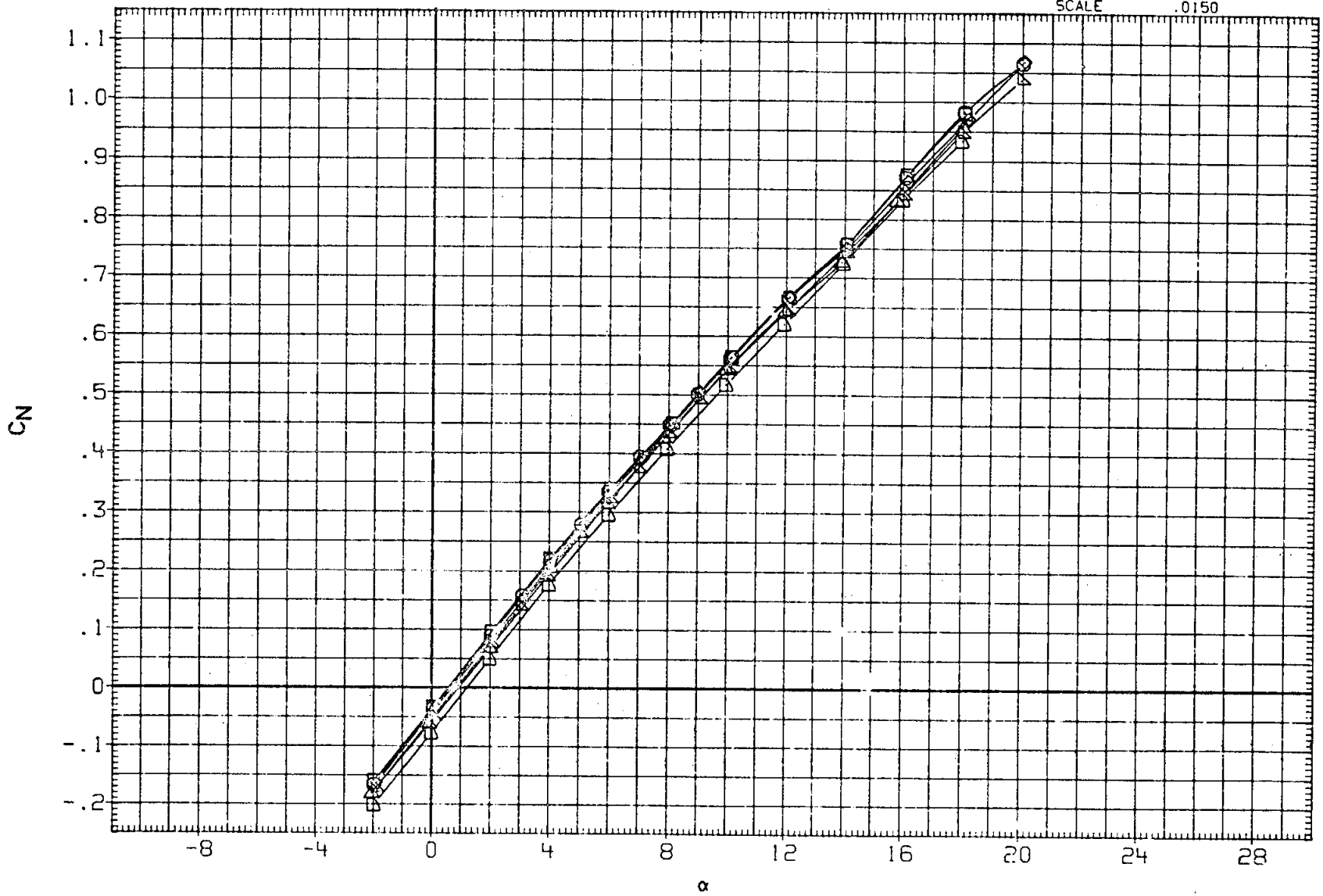

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

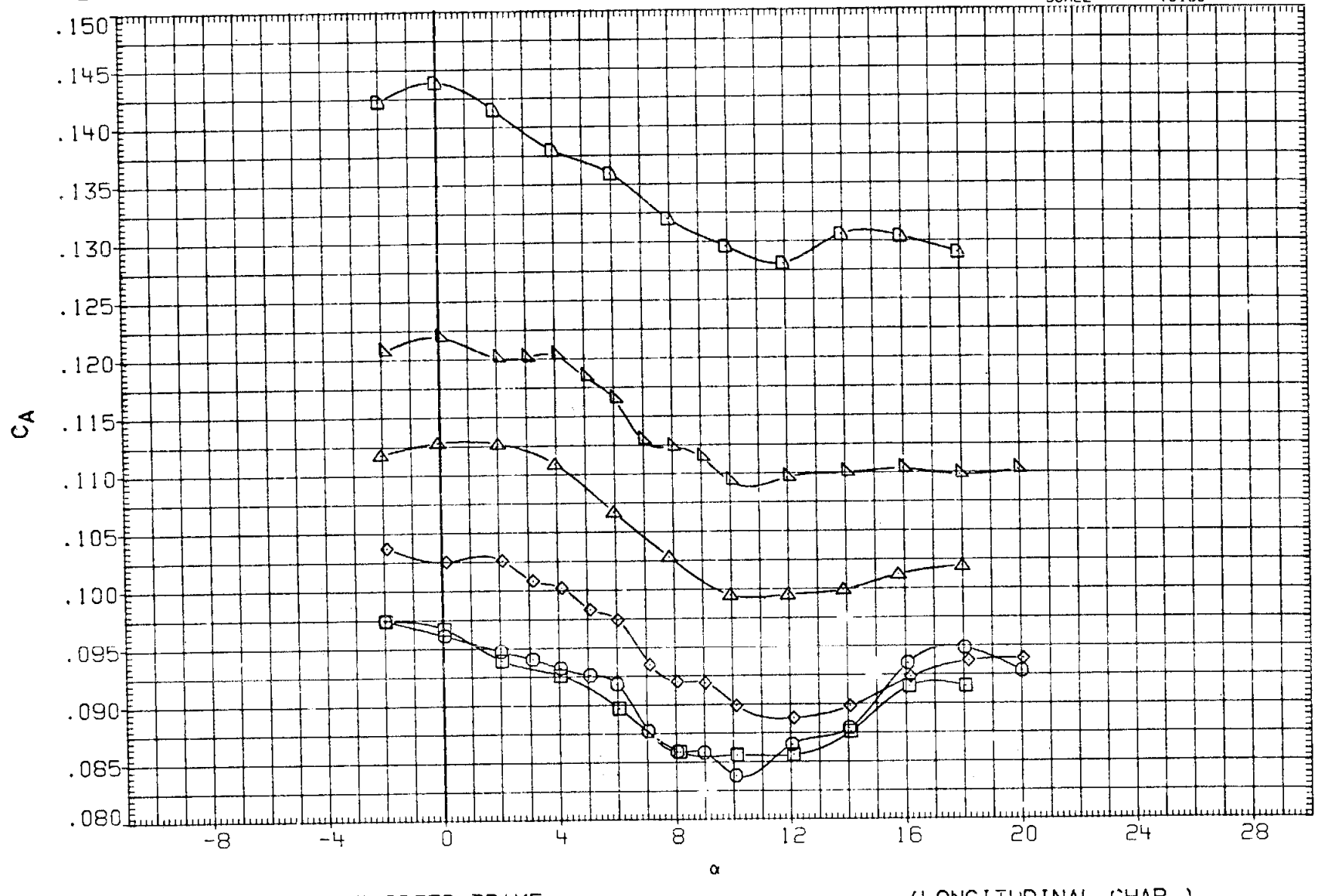

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

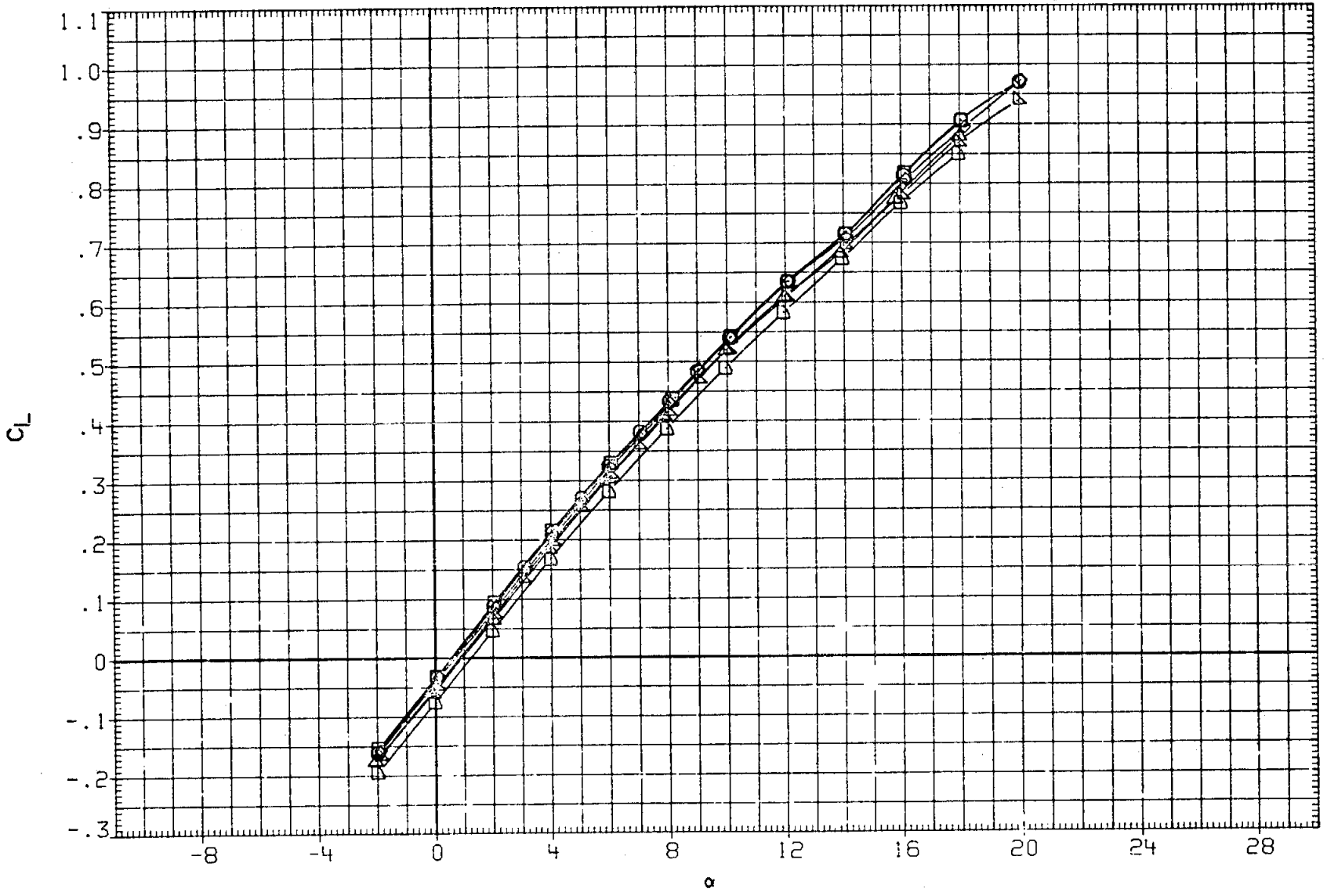

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBPK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	0150	

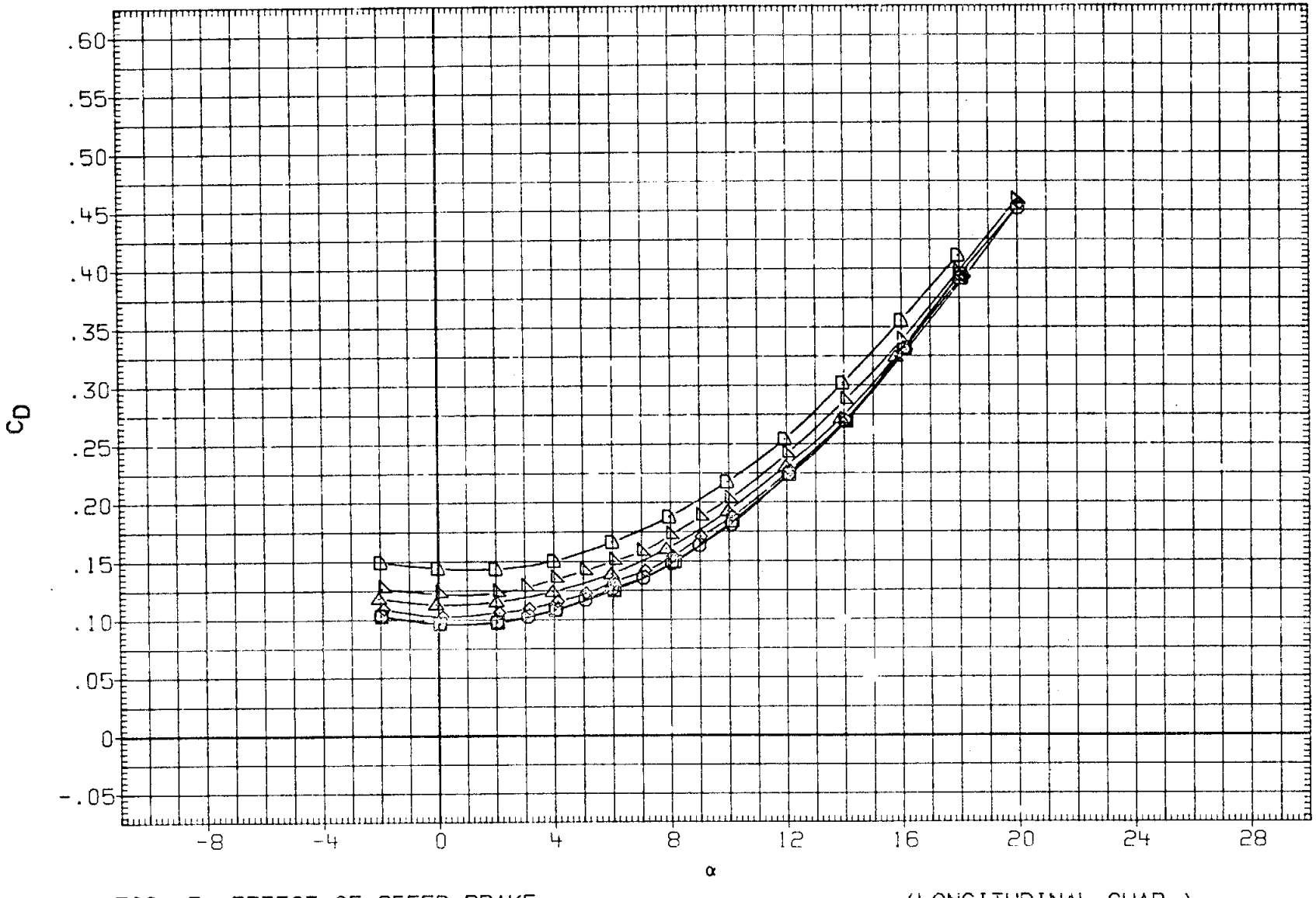

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

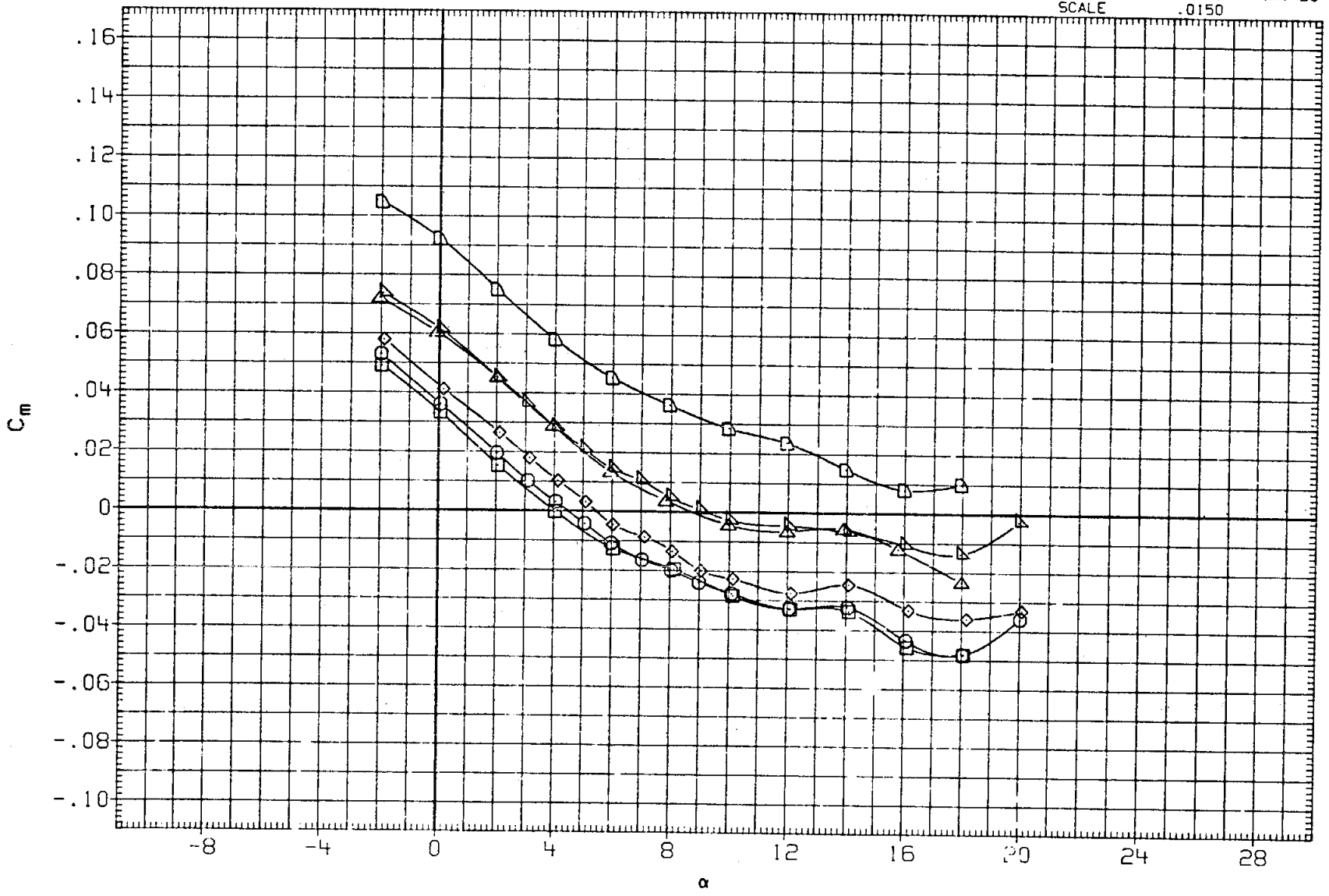

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

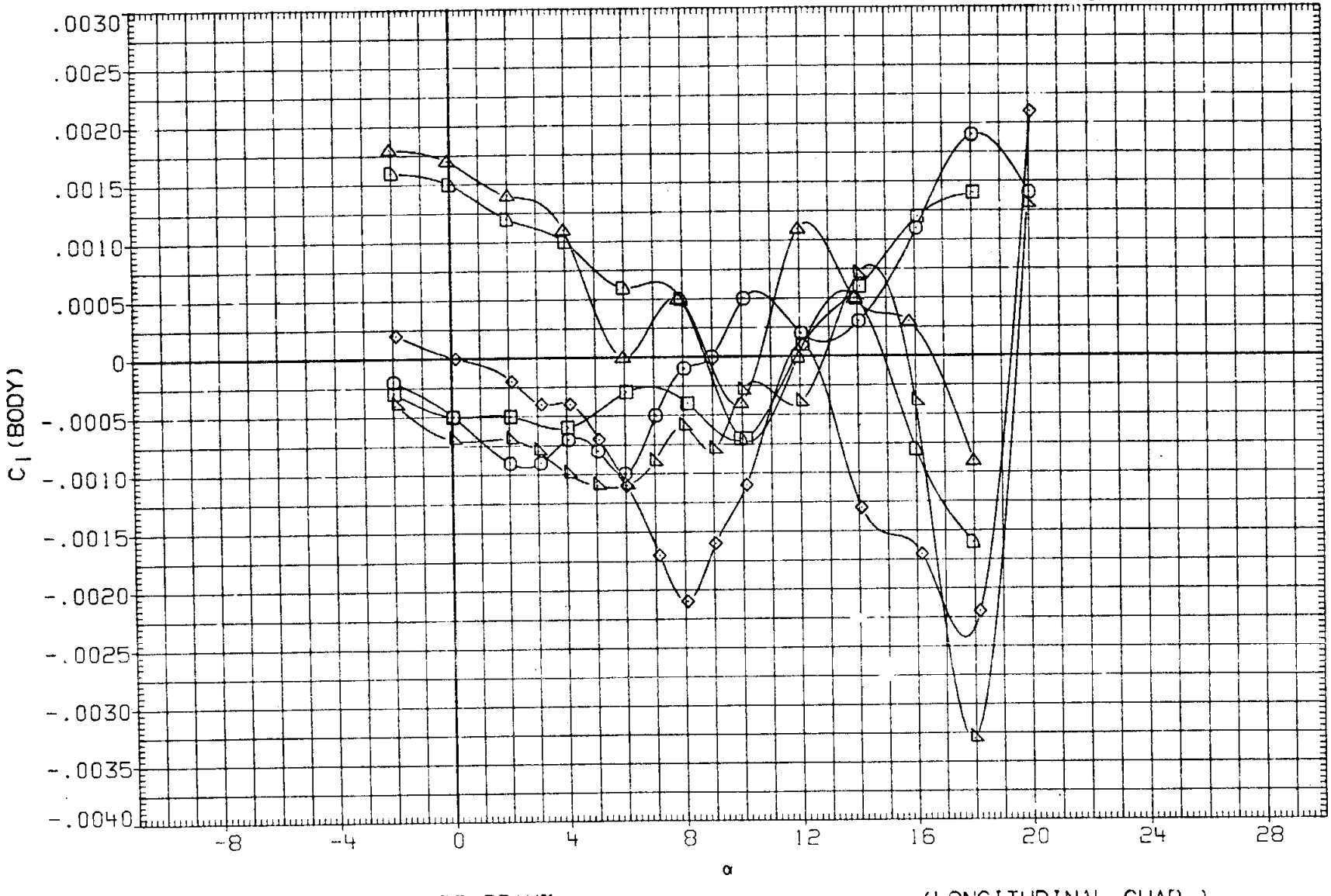

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	▷	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

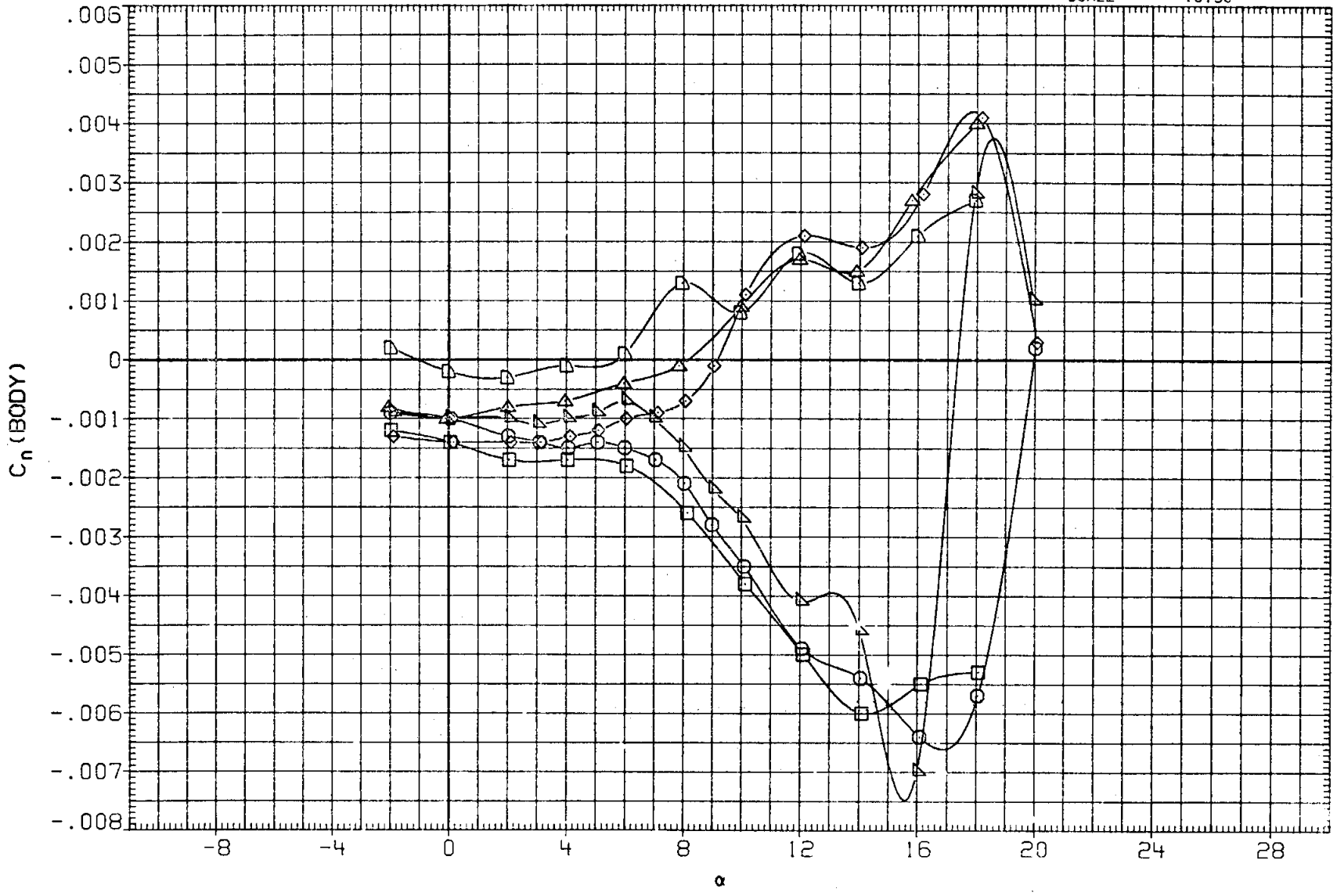

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	◗	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

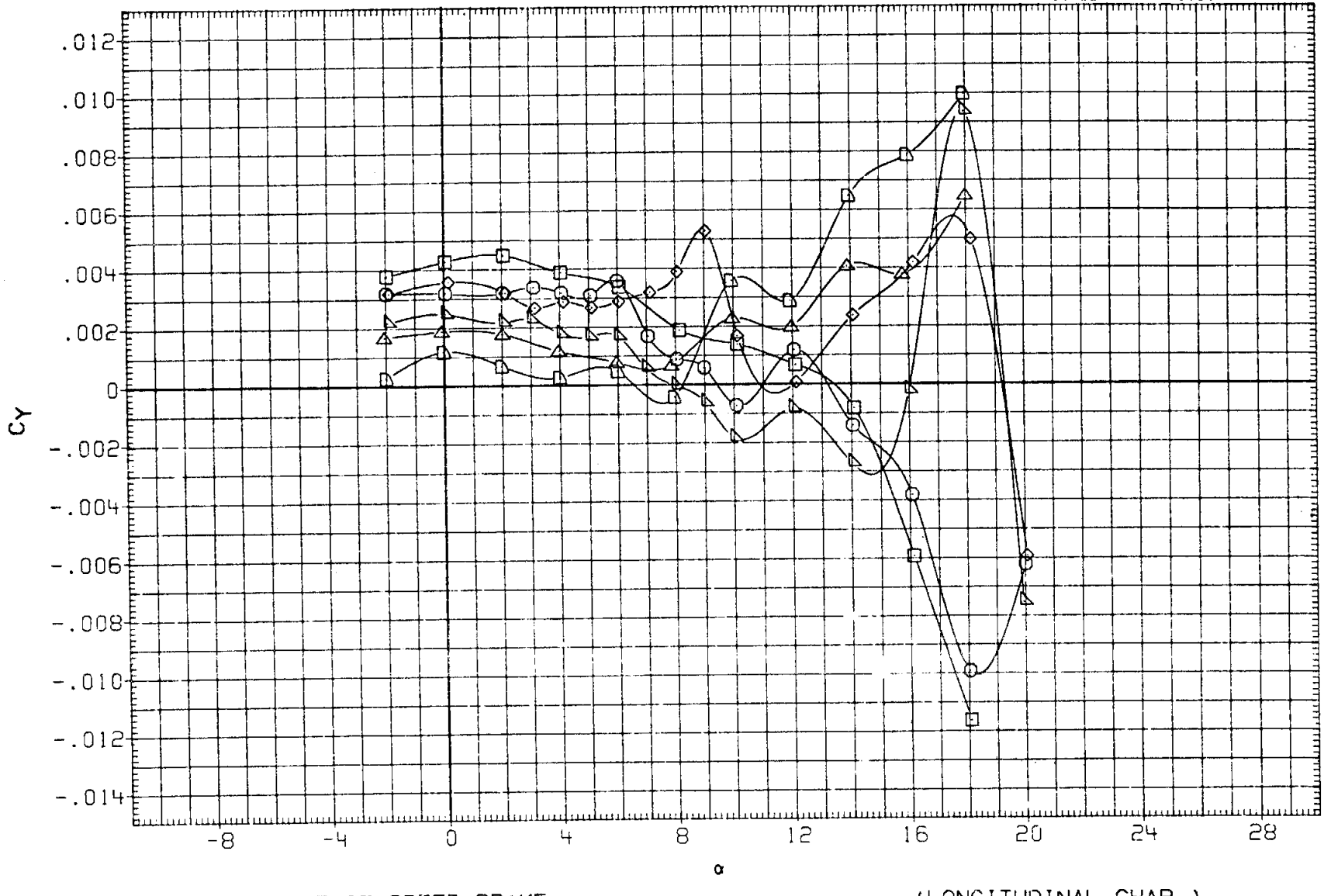

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

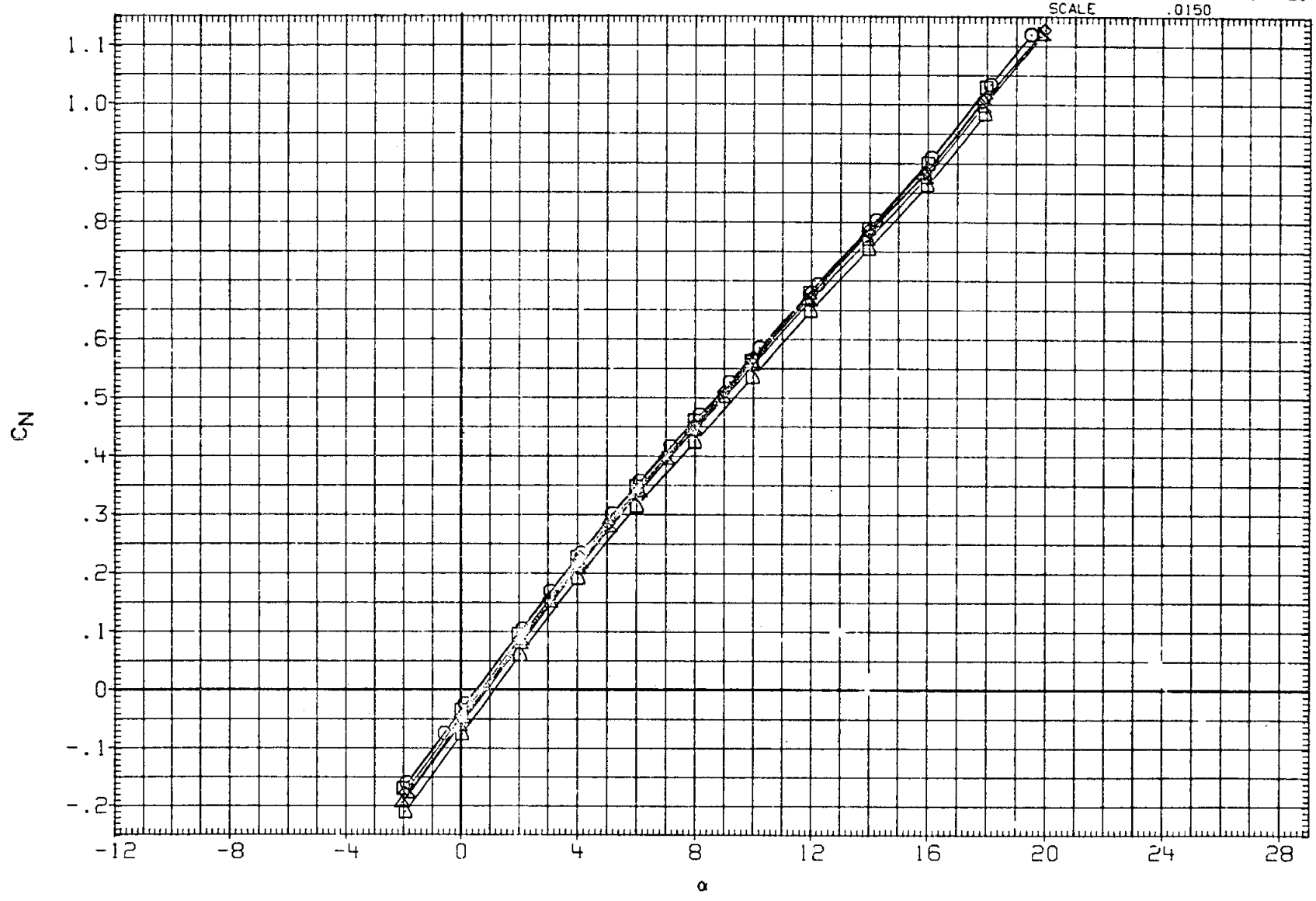

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	◗	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

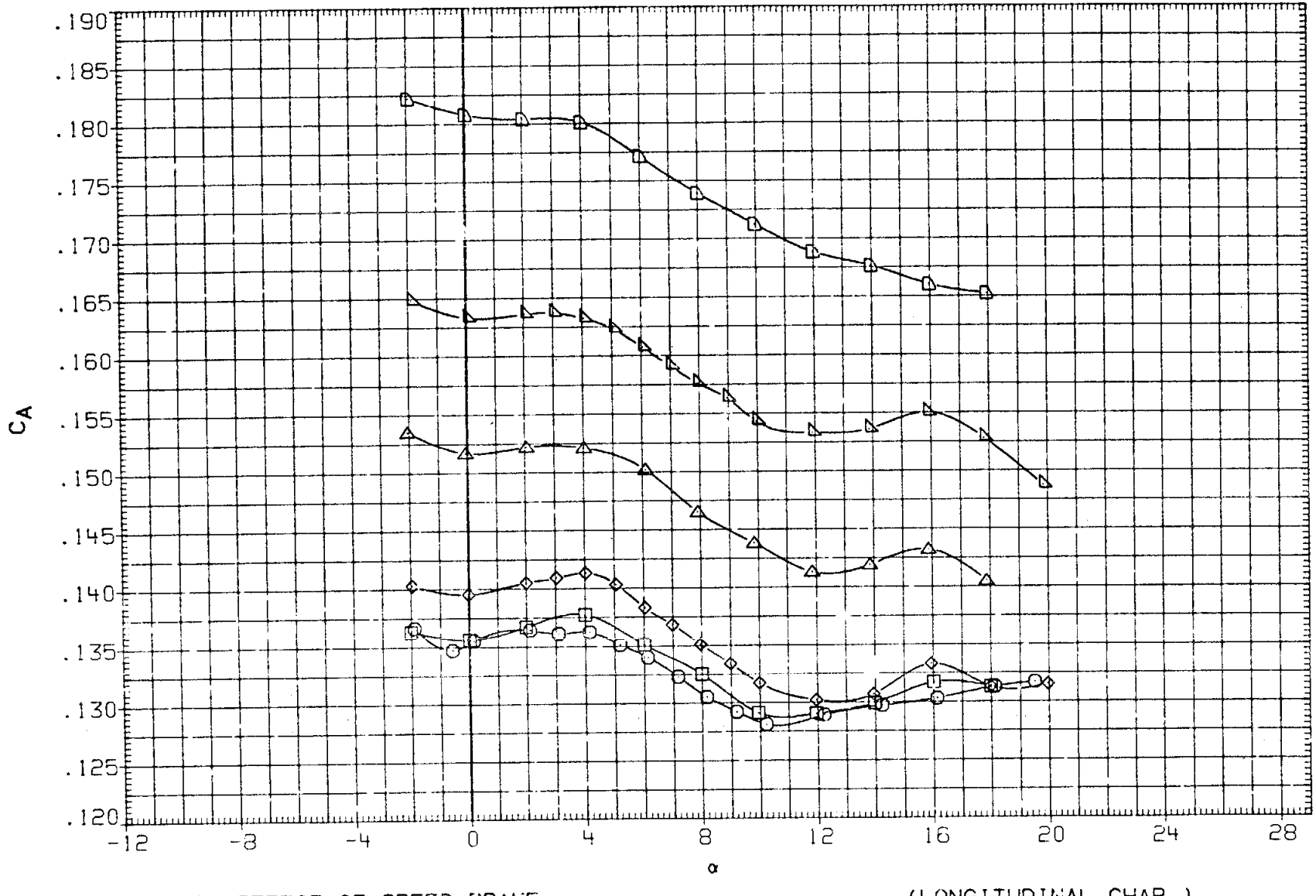

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	◻	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

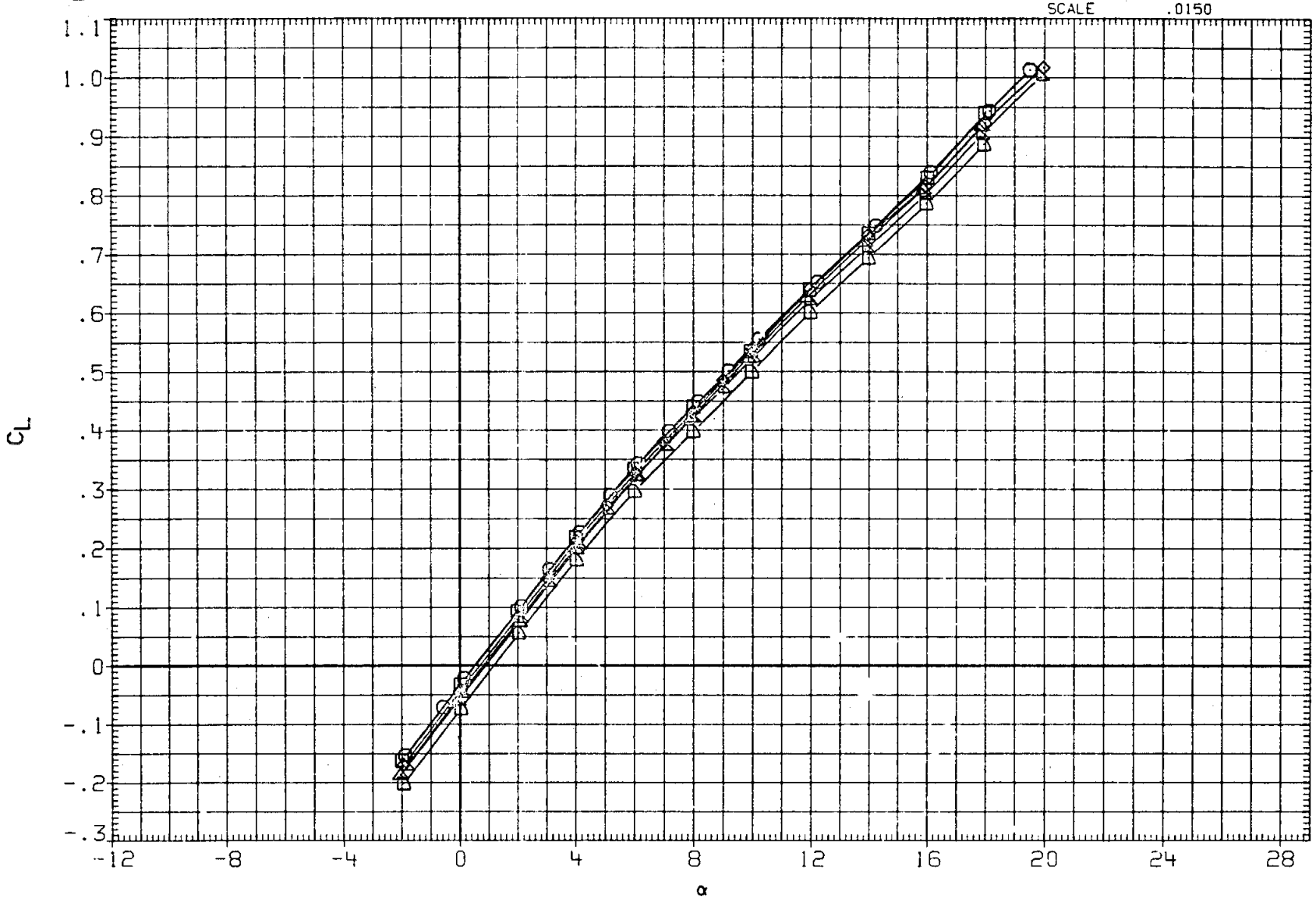

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

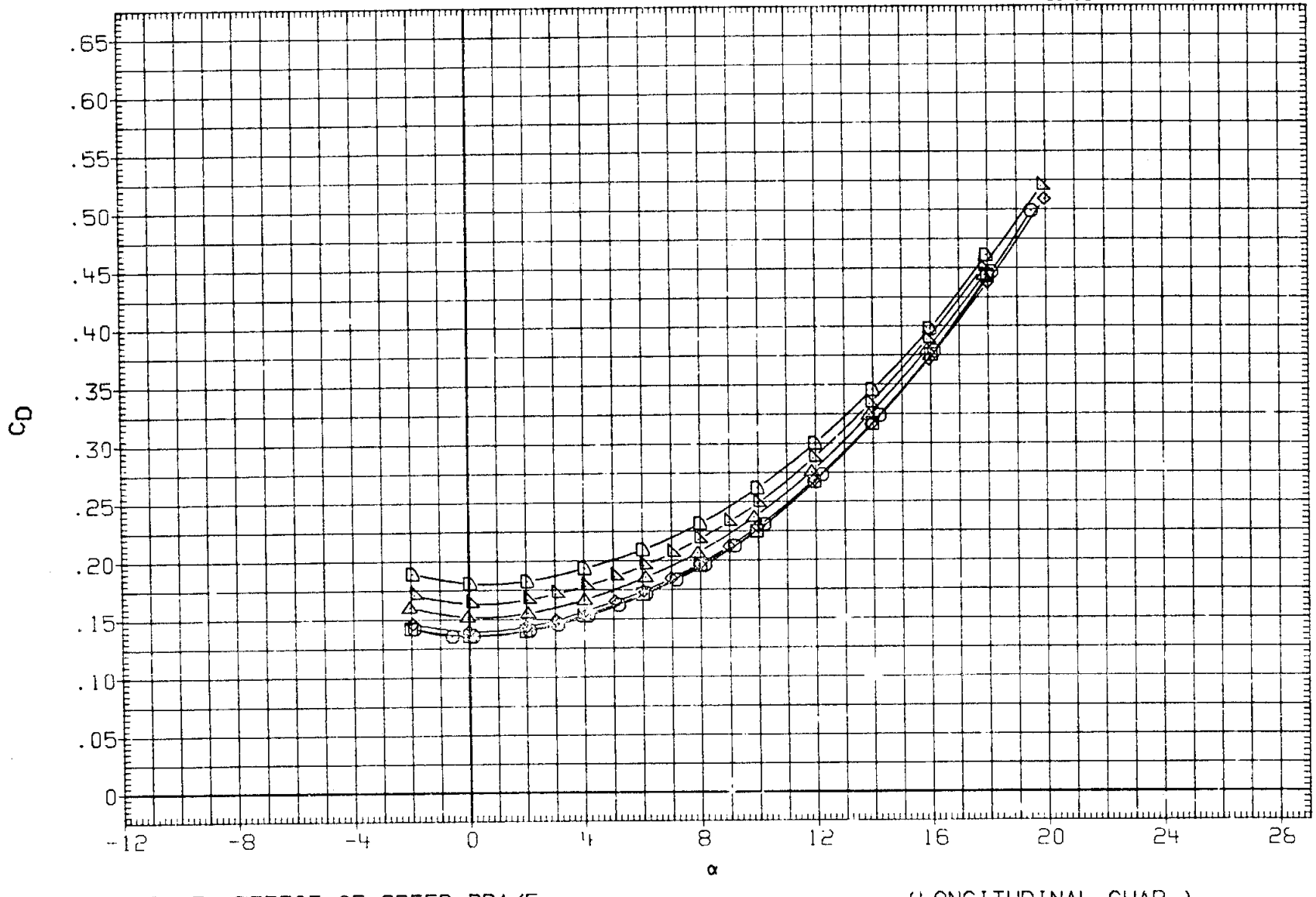

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

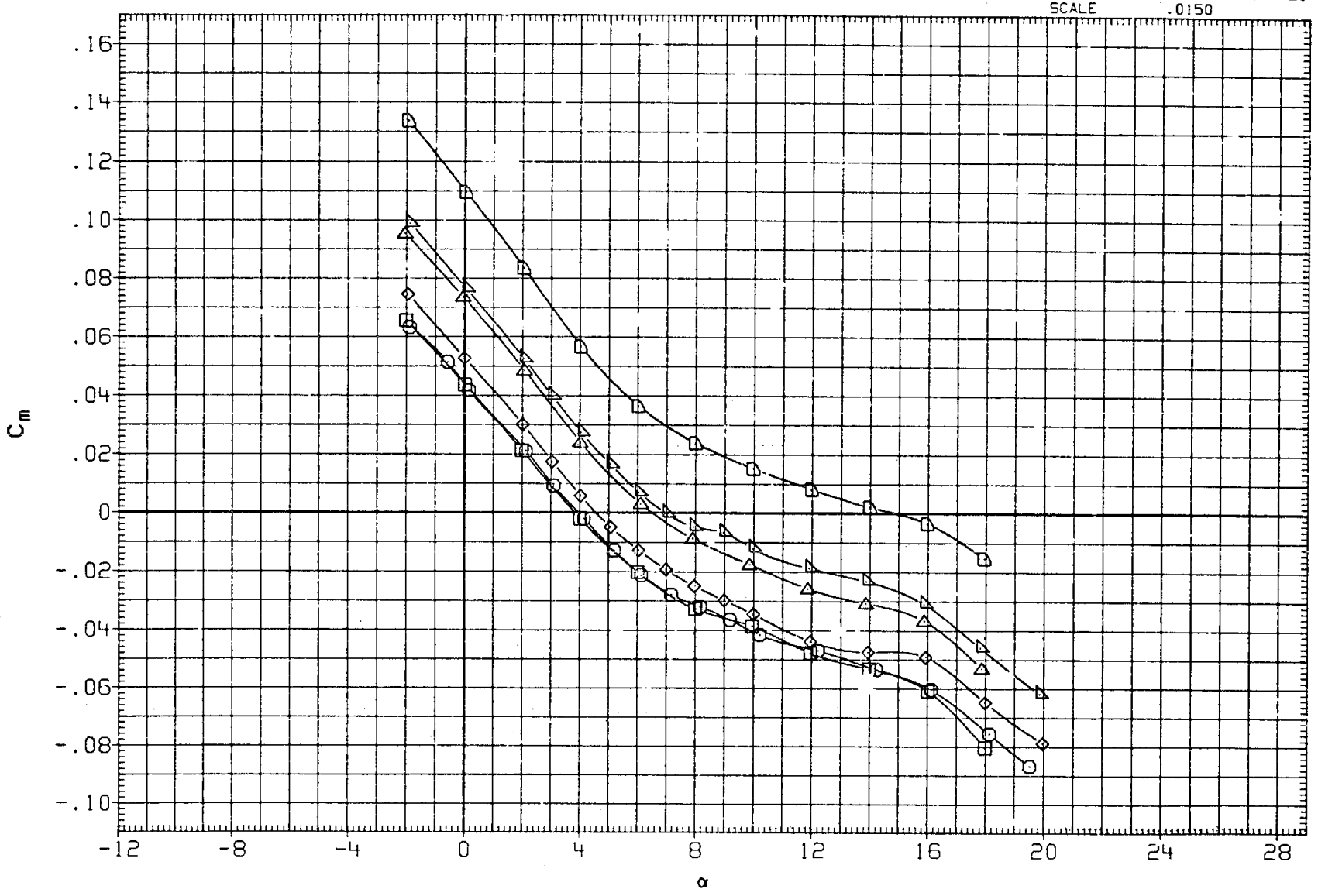

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B171	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B179	△	ARC 200-1 11(LA77) OV101
R2B084	◺	ARC 200-1 11(LA77) OV101
R2B187	◻	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

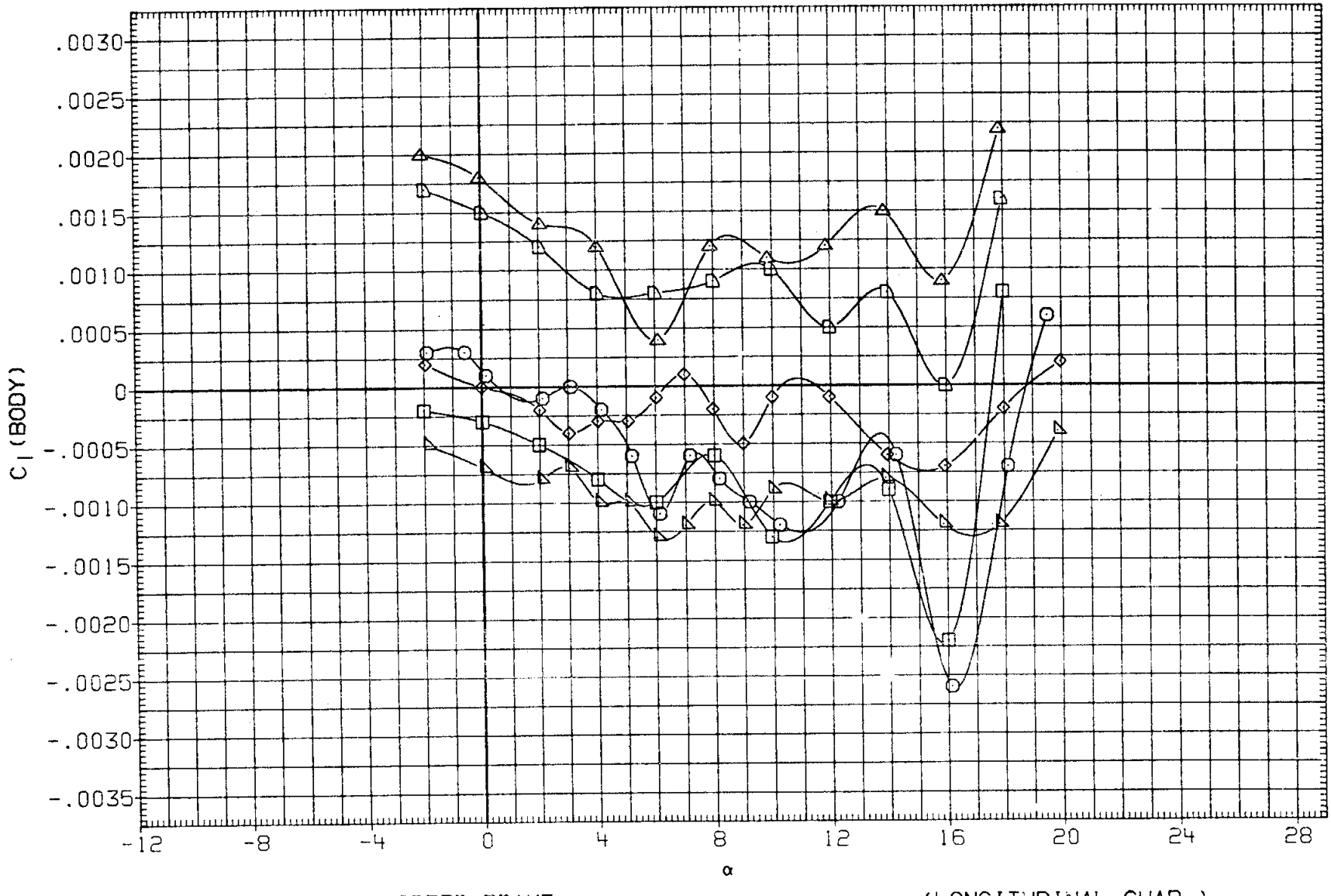

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	◗	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

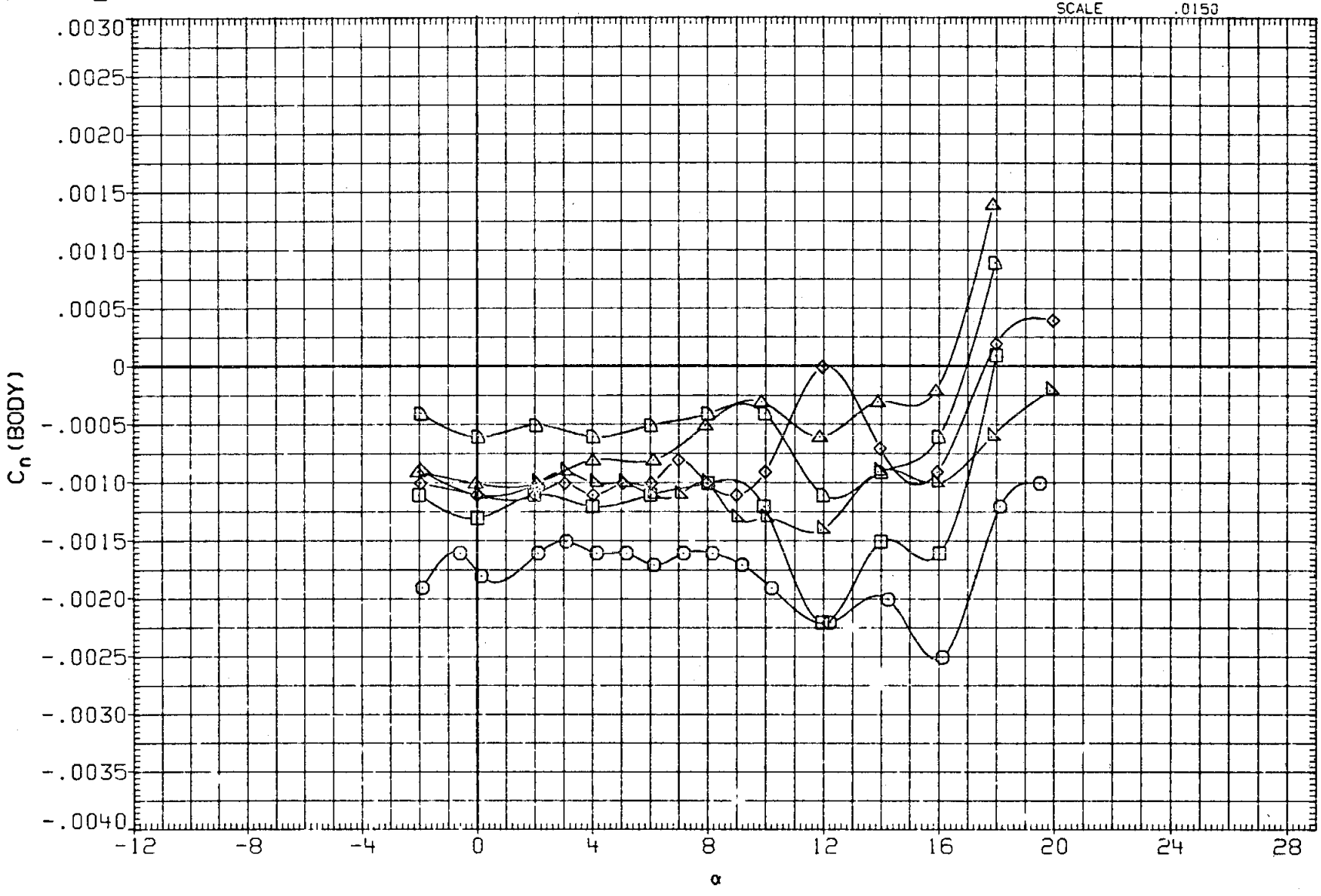

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B171	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B179	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B187	◻	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

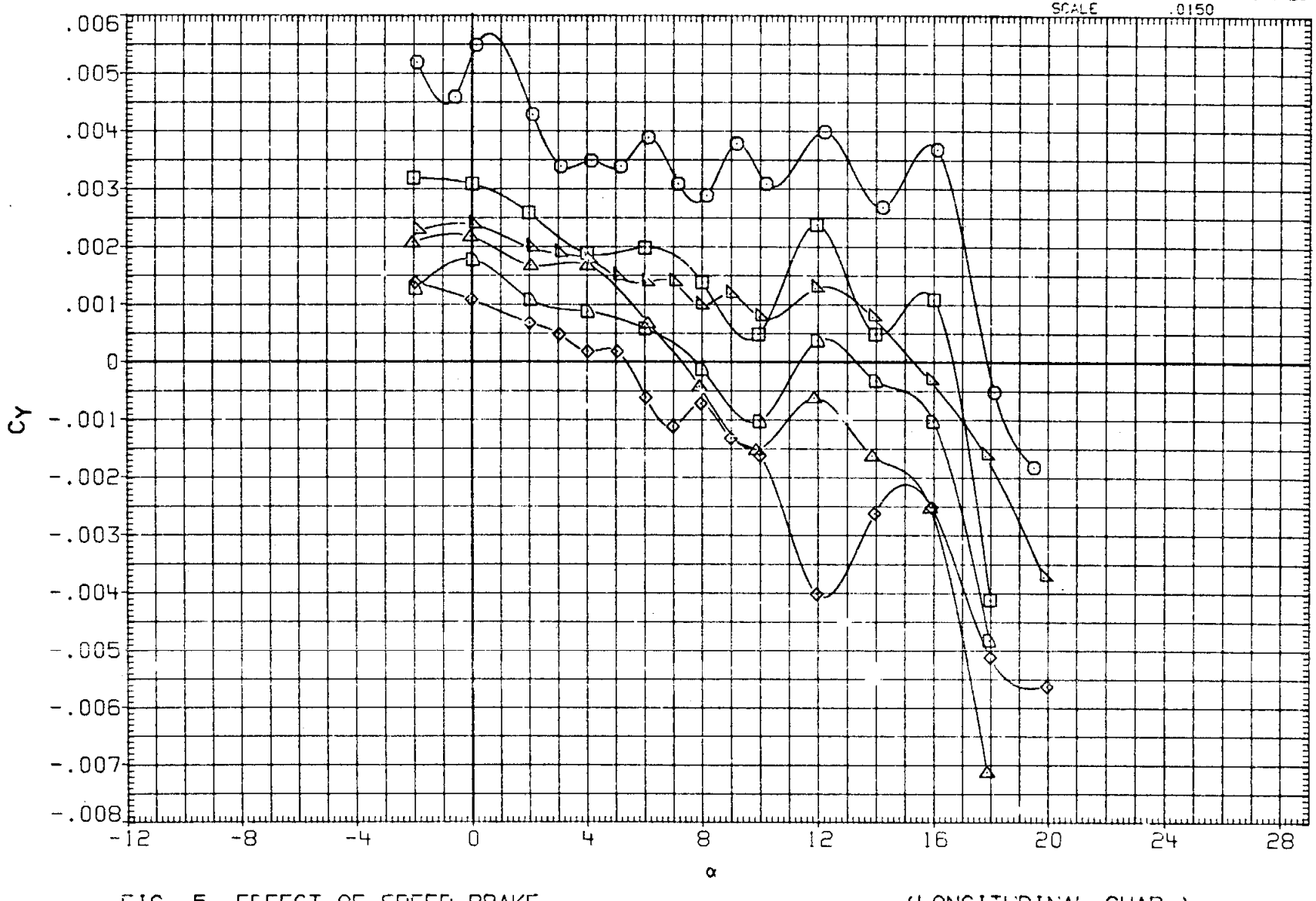

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B091	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B090	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

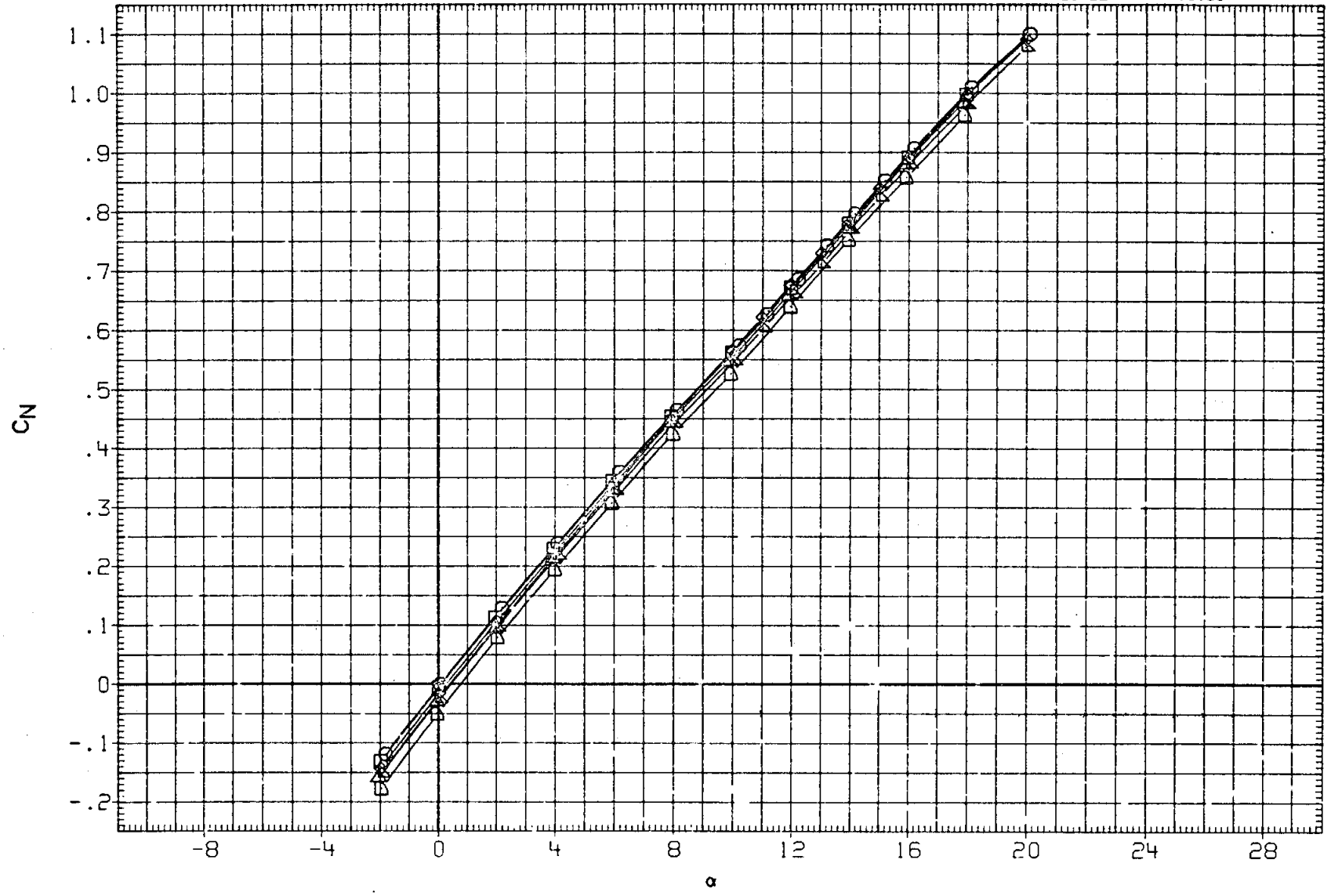

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

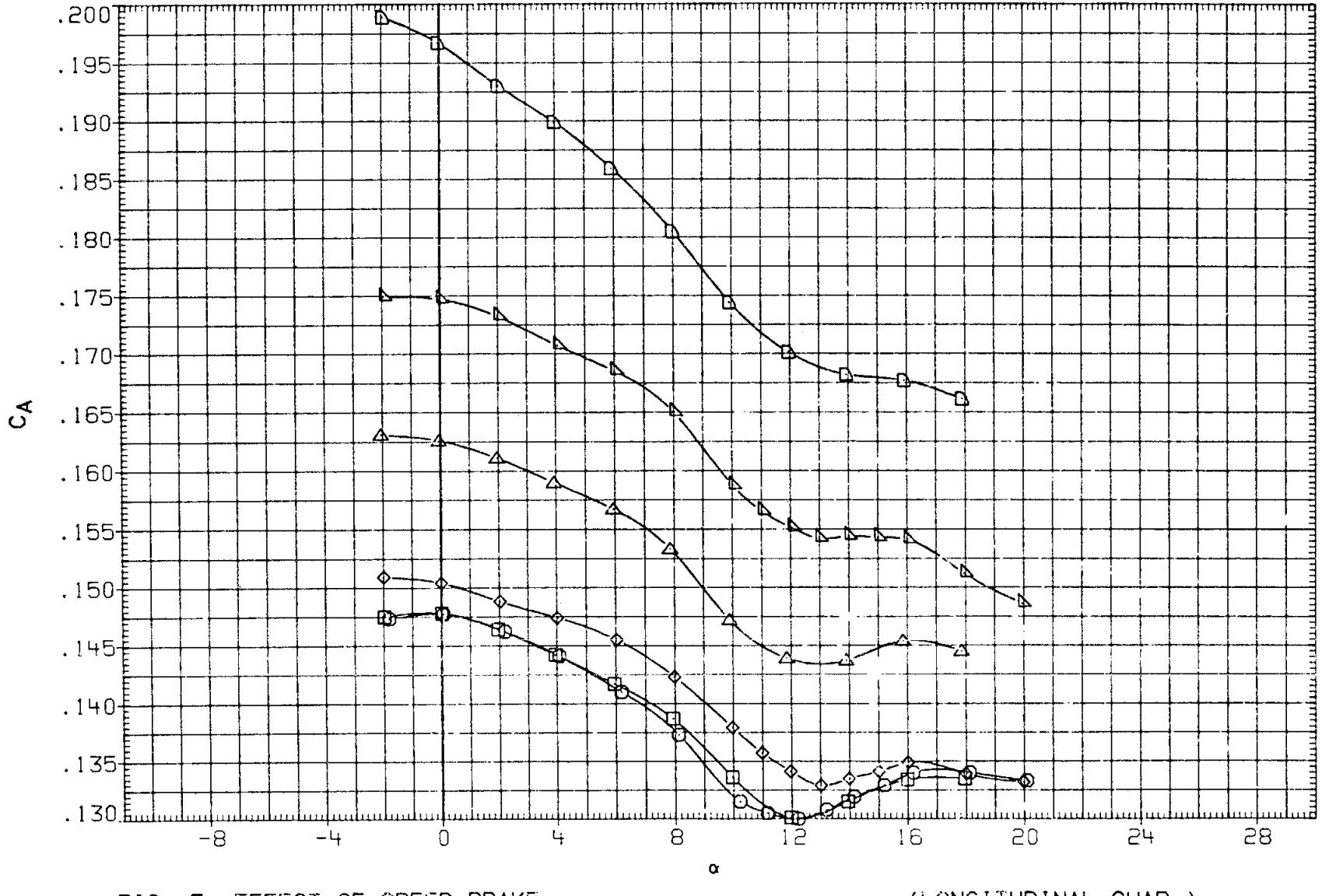

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

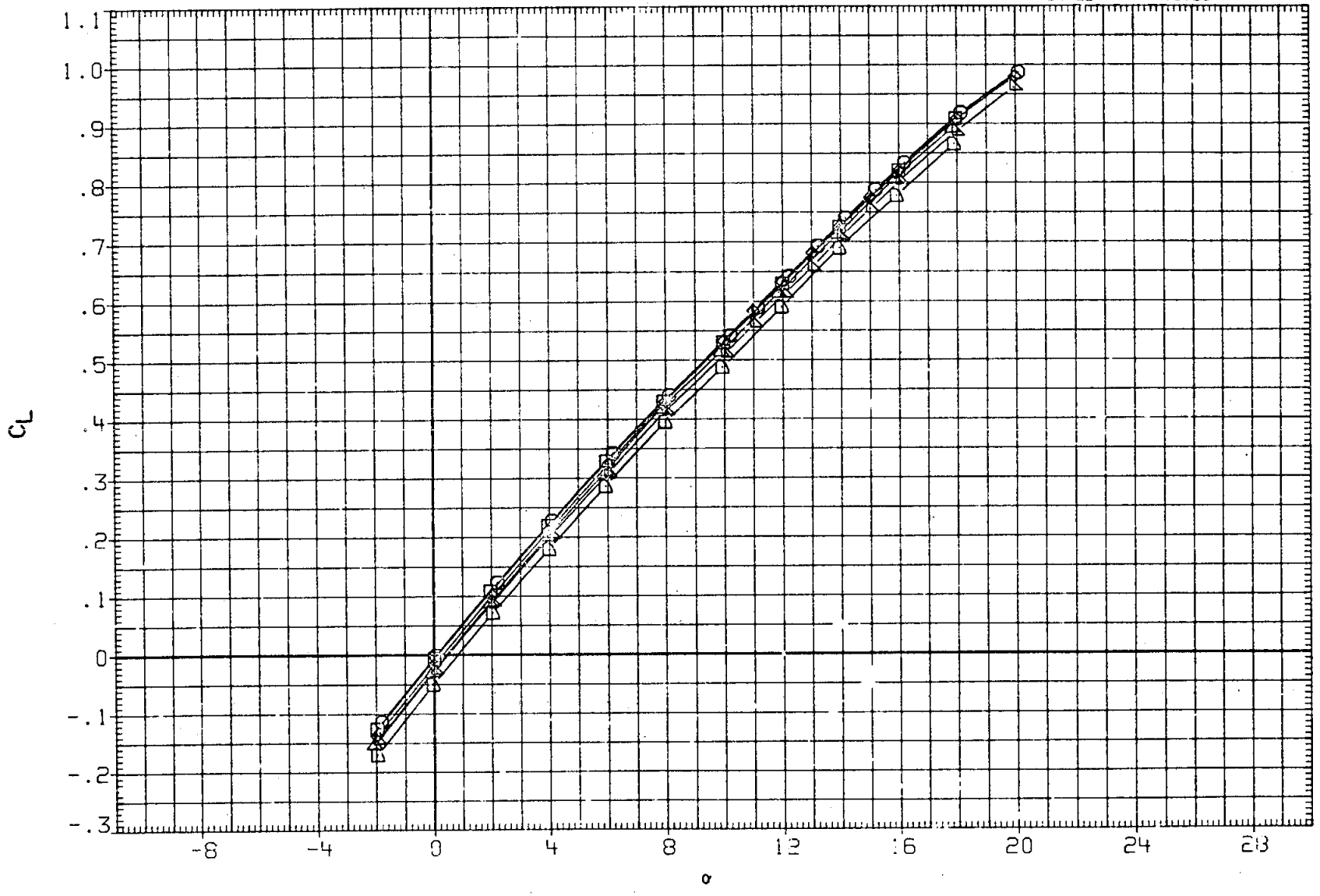

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	74.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

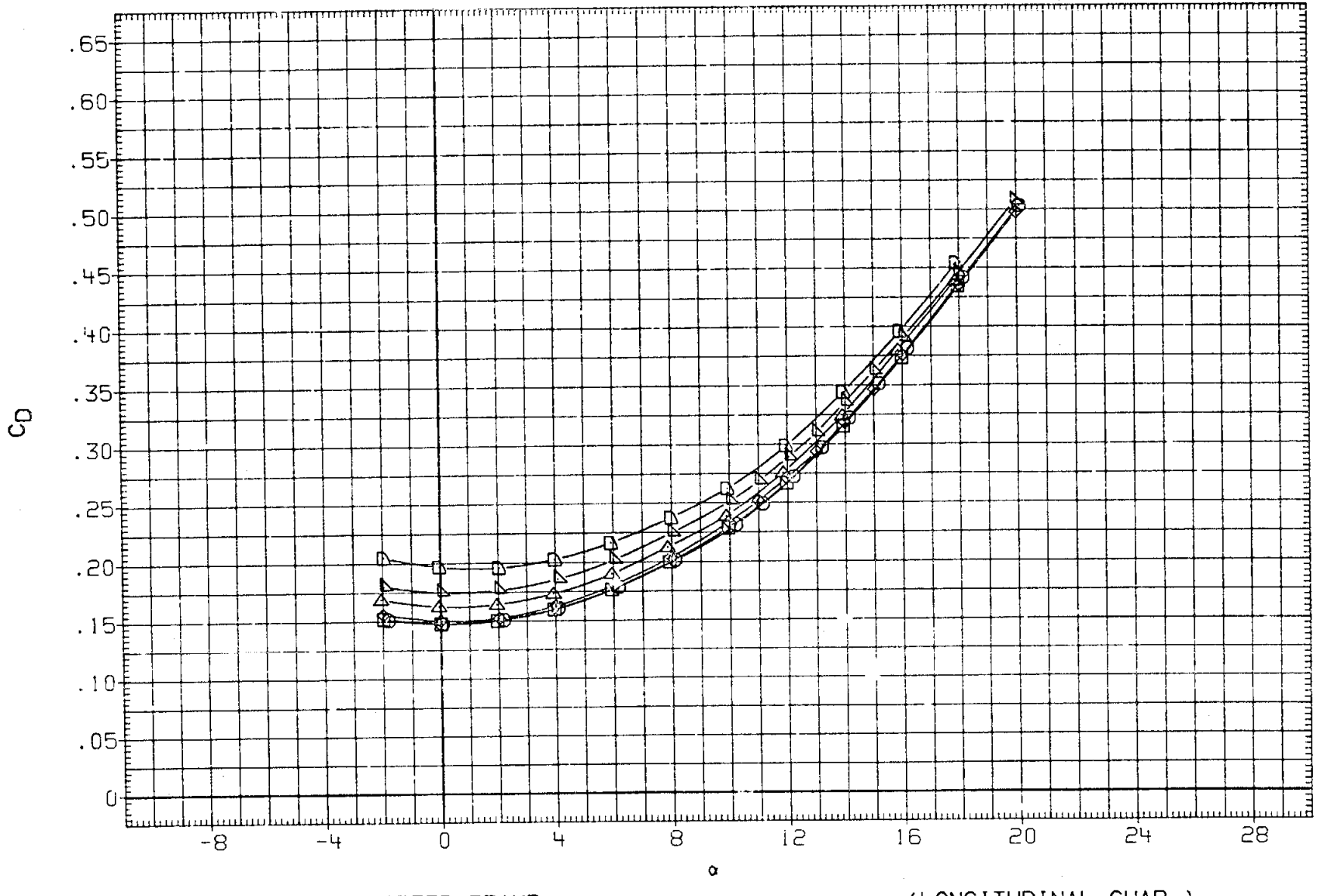

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	⬠	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

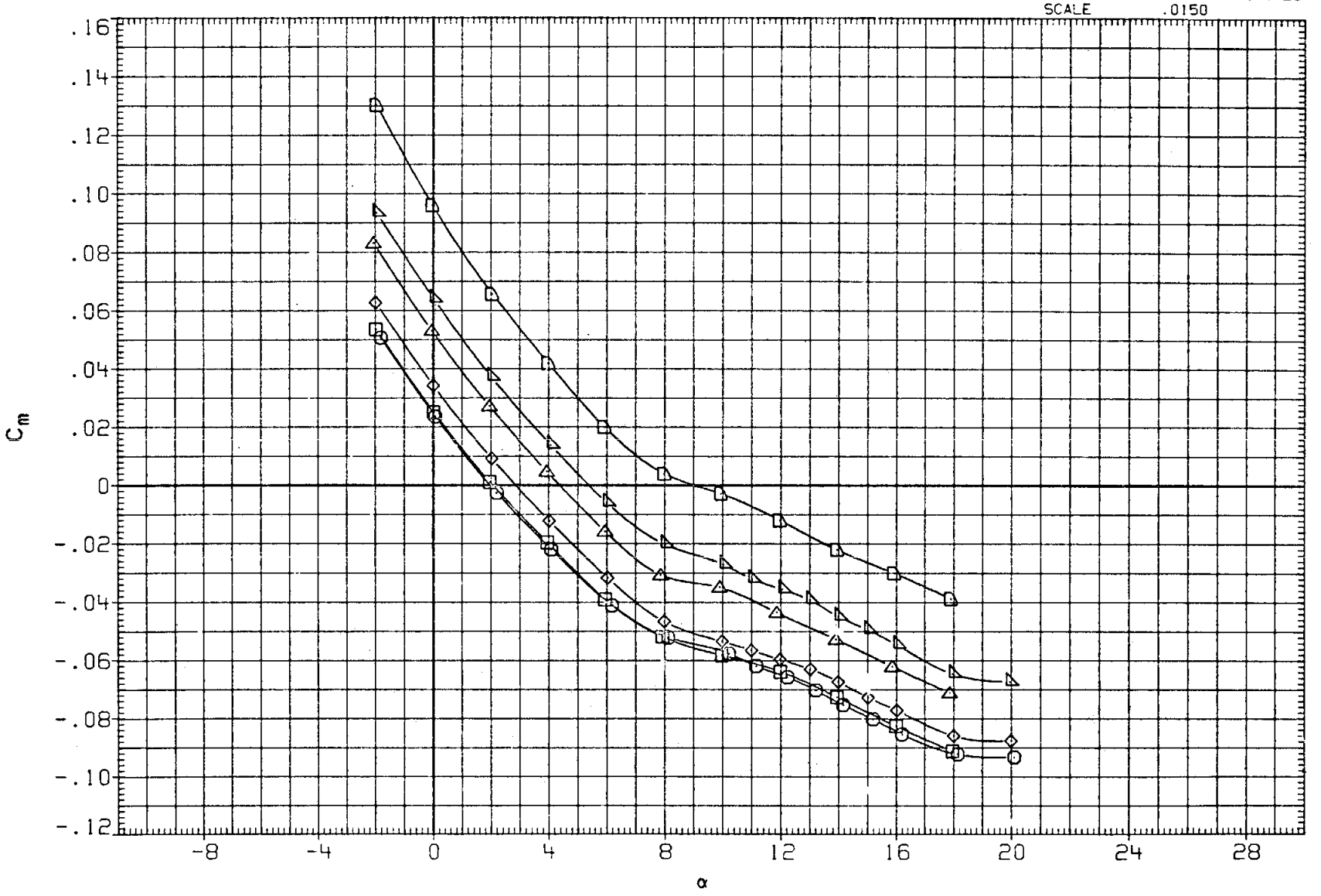

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	D	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

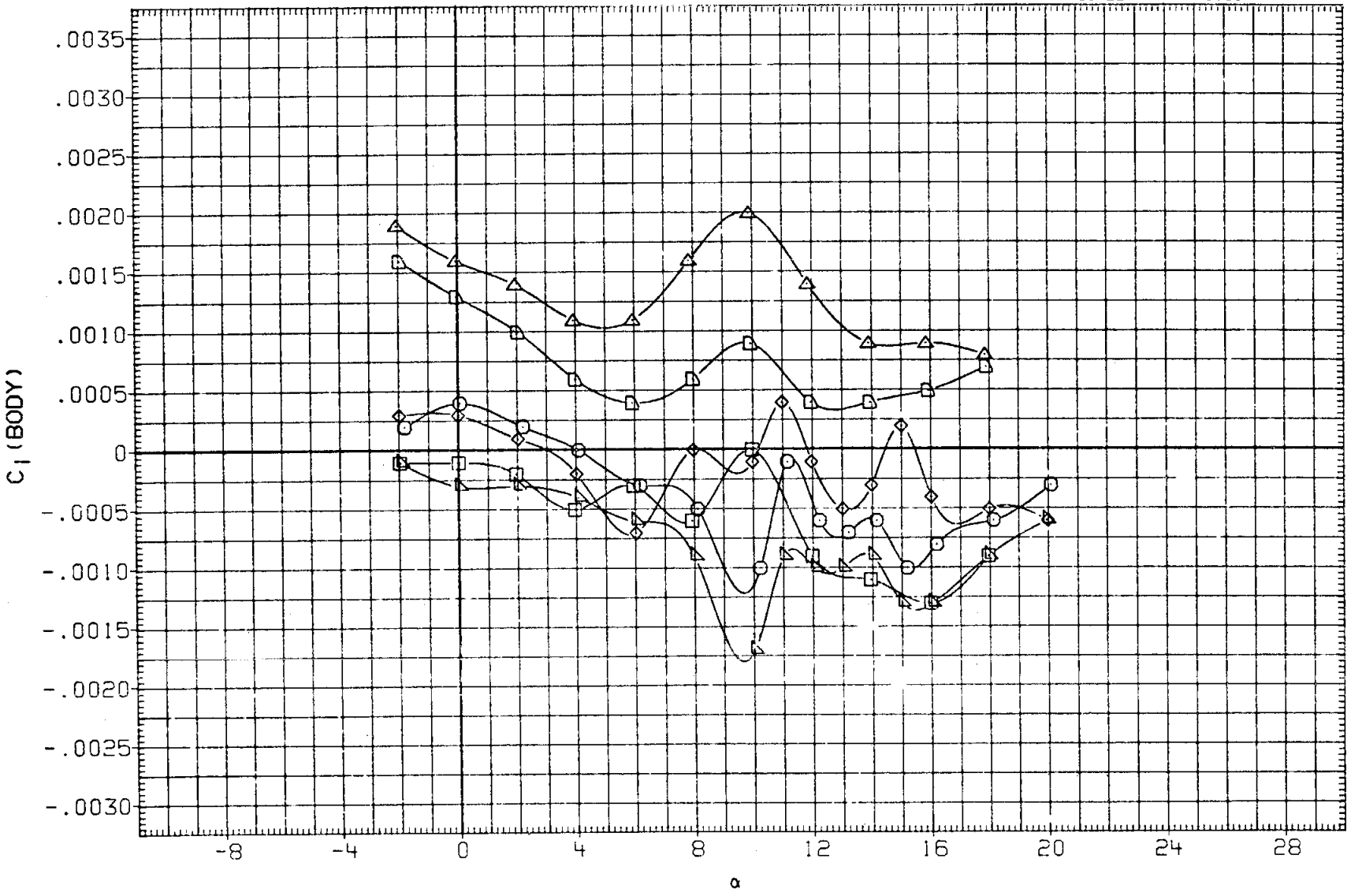

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-1 11(LA77) OV101
R2B168	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B176	△	ARC 200-1 11(LA77) OV101
R2B080	◺	ARC 200-1 11(LA77) OV101
R2B184	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
.000	.000	.000	.000
15.000	.000	.000	.000
25.000	.000	.000	.000
40.000	.000	.000	.000
55.000	.000	.000	.000
70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

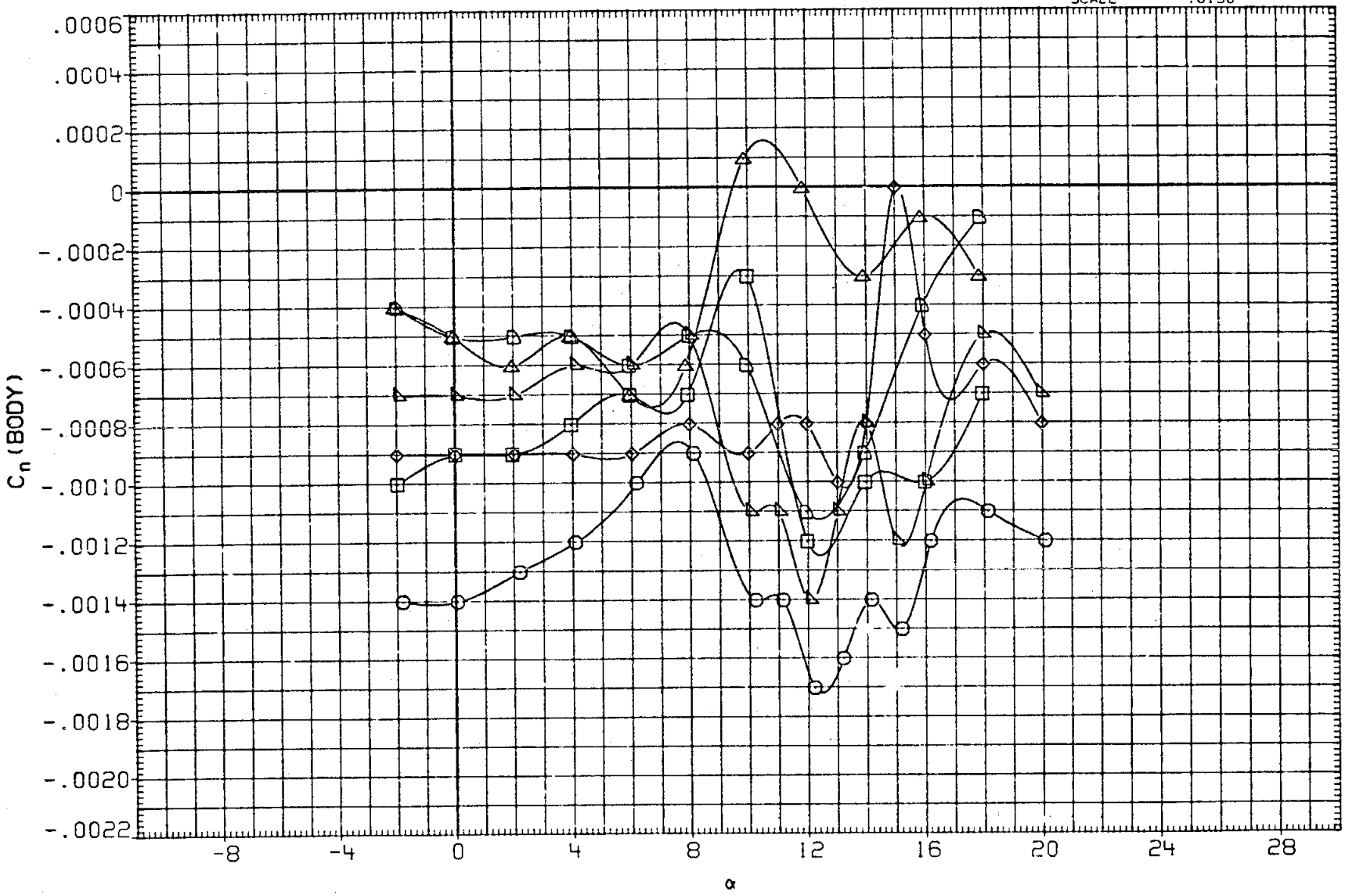

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B168	□	ARC 200-1 11(LA77) OV101	15.000	.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B176	△	ARC 200-1 11(LA77) OV101	40.000	.000	.000	.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B184	◻	ARC 200-1 11(LA77) OV101	70.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

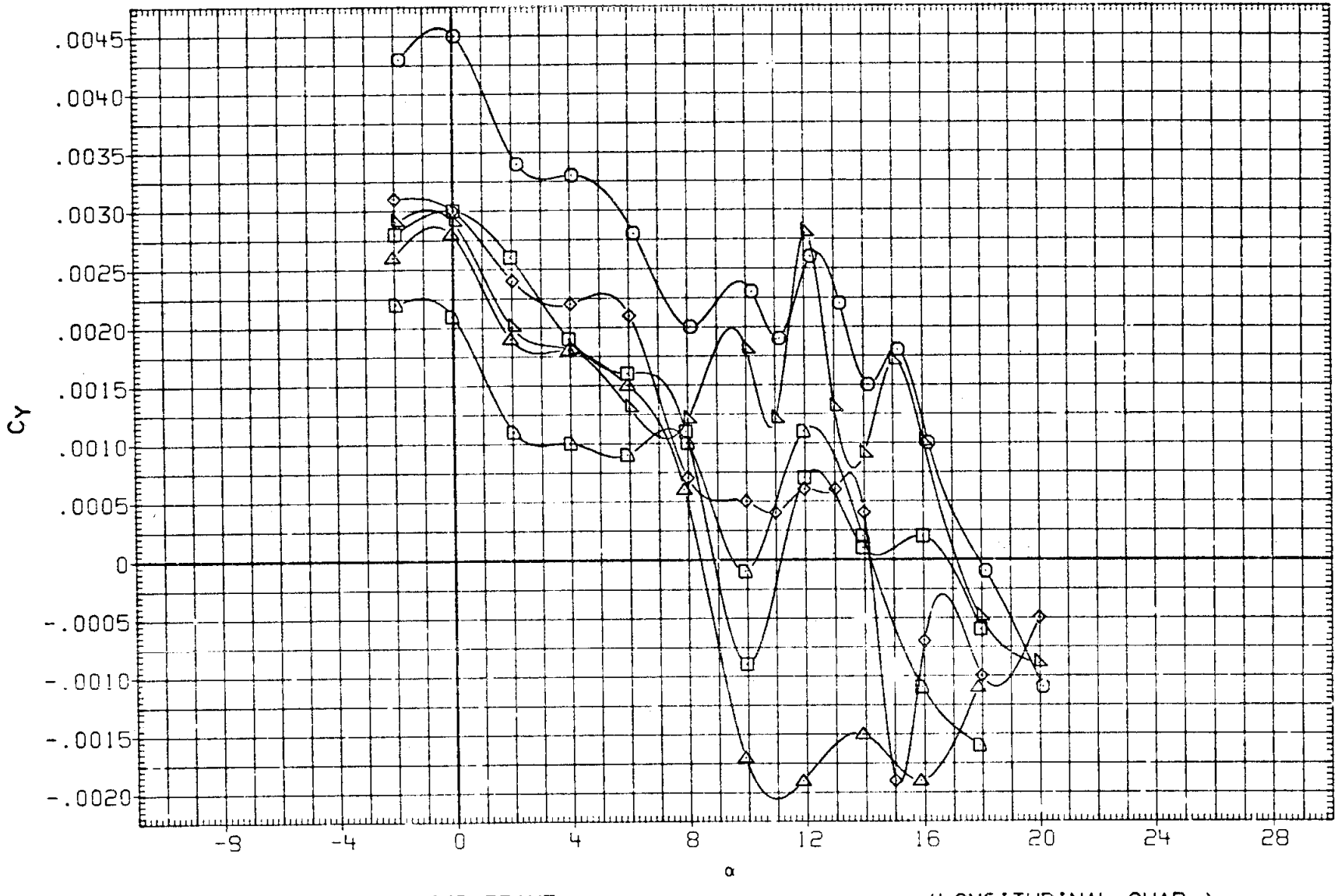

FIG. 5 EFFECT OF SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

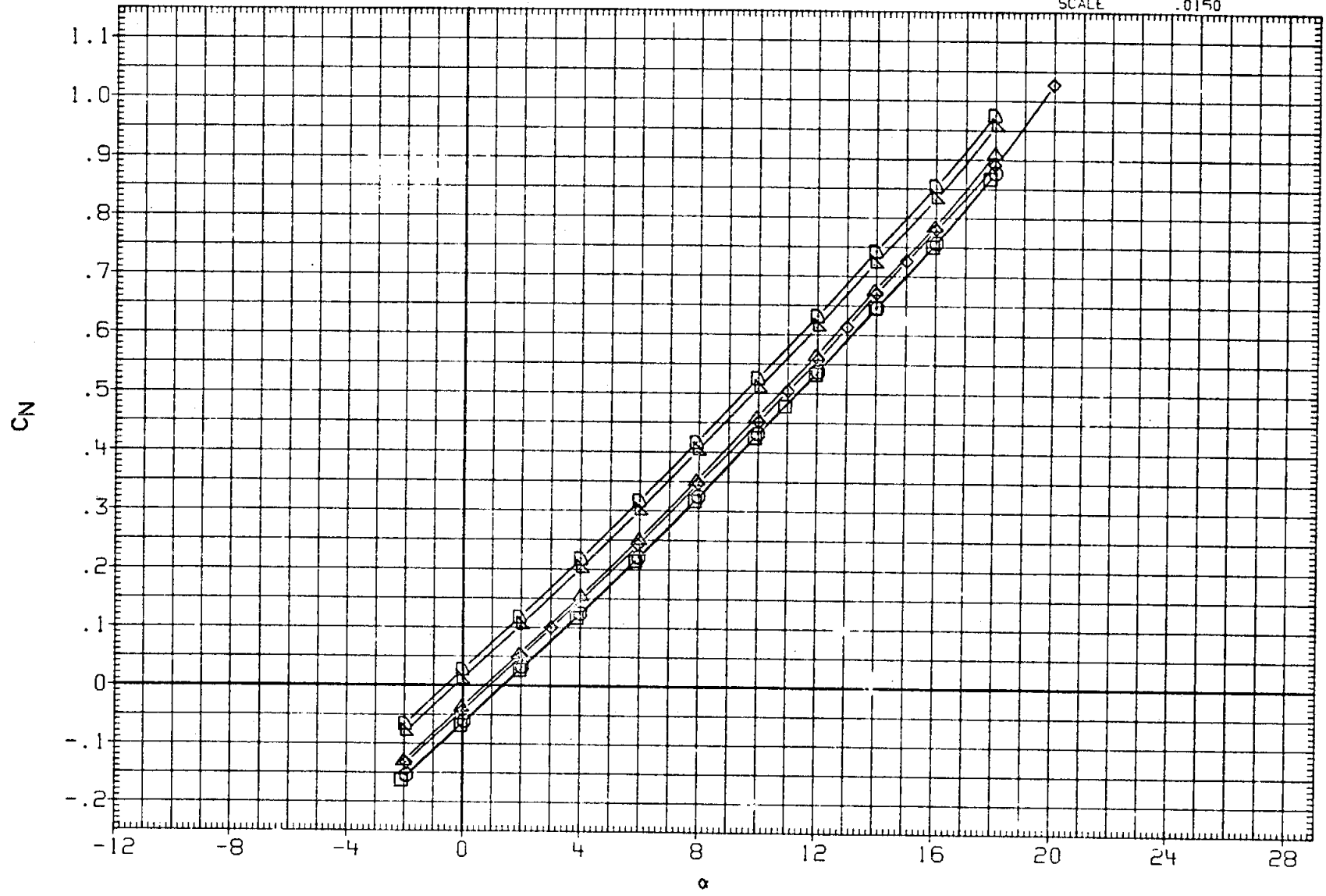

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	[illegible]	SQ.FT.
LREF	[illegible]	IN.
BREF	936.[illegible]	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

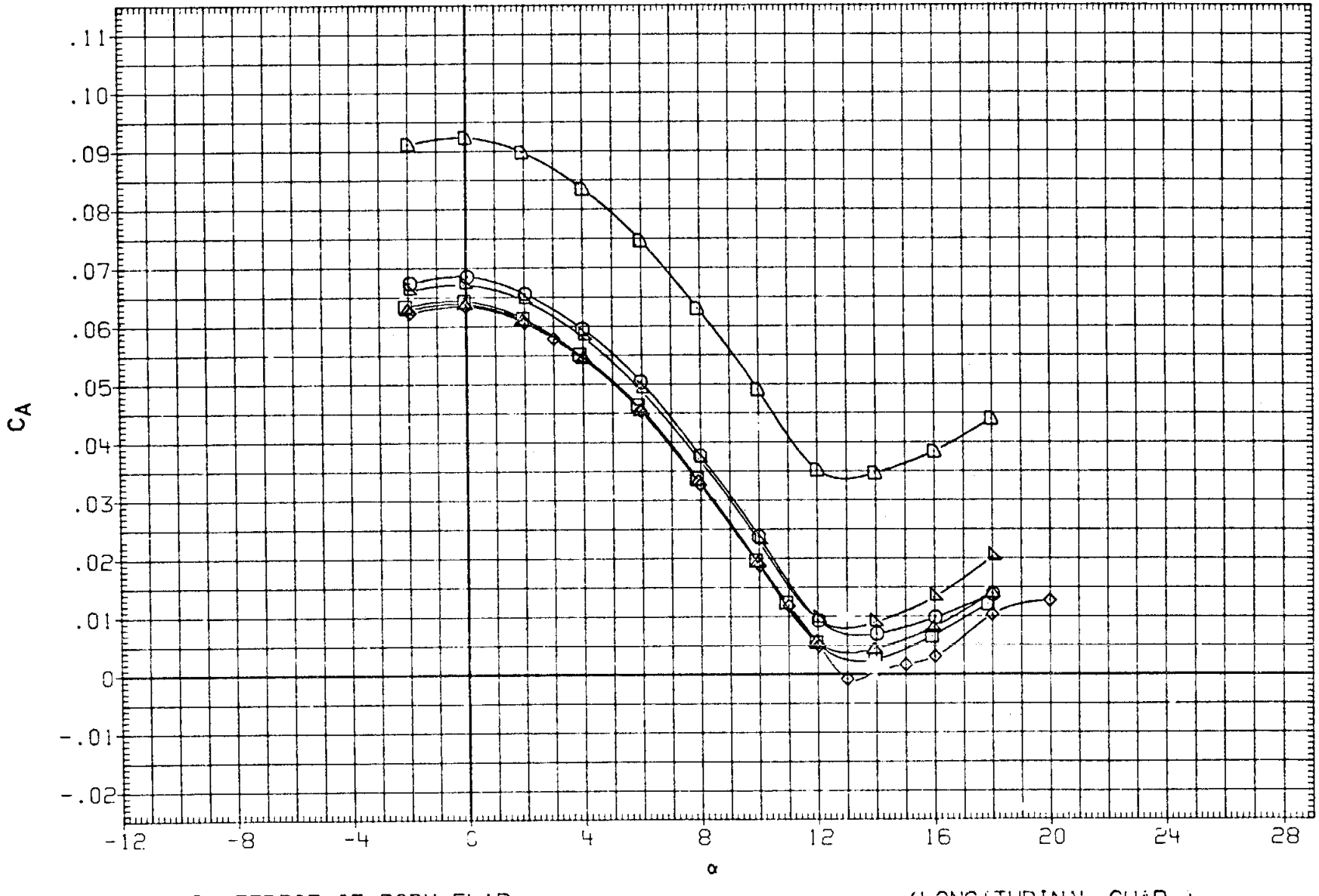

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B019	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

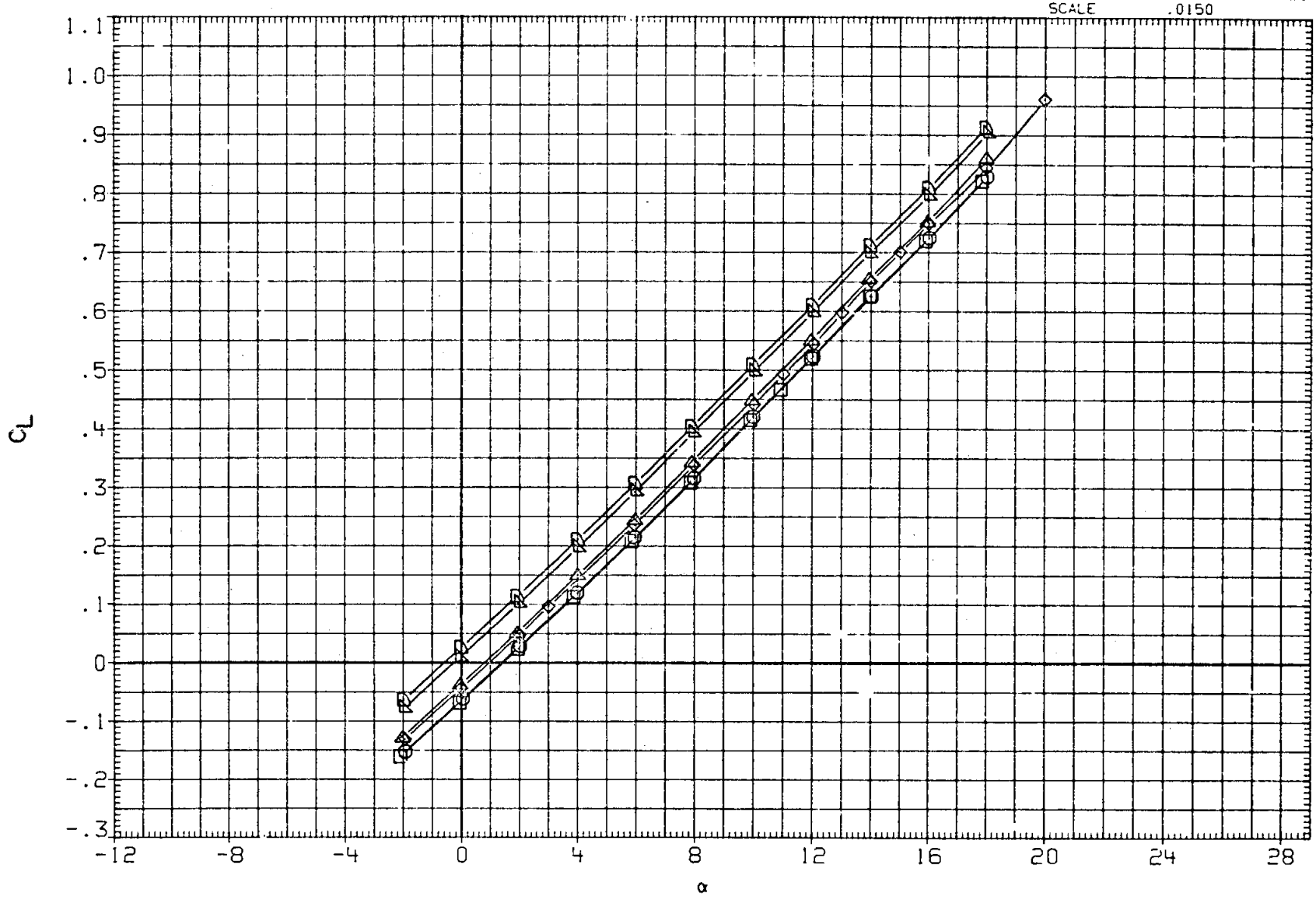

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

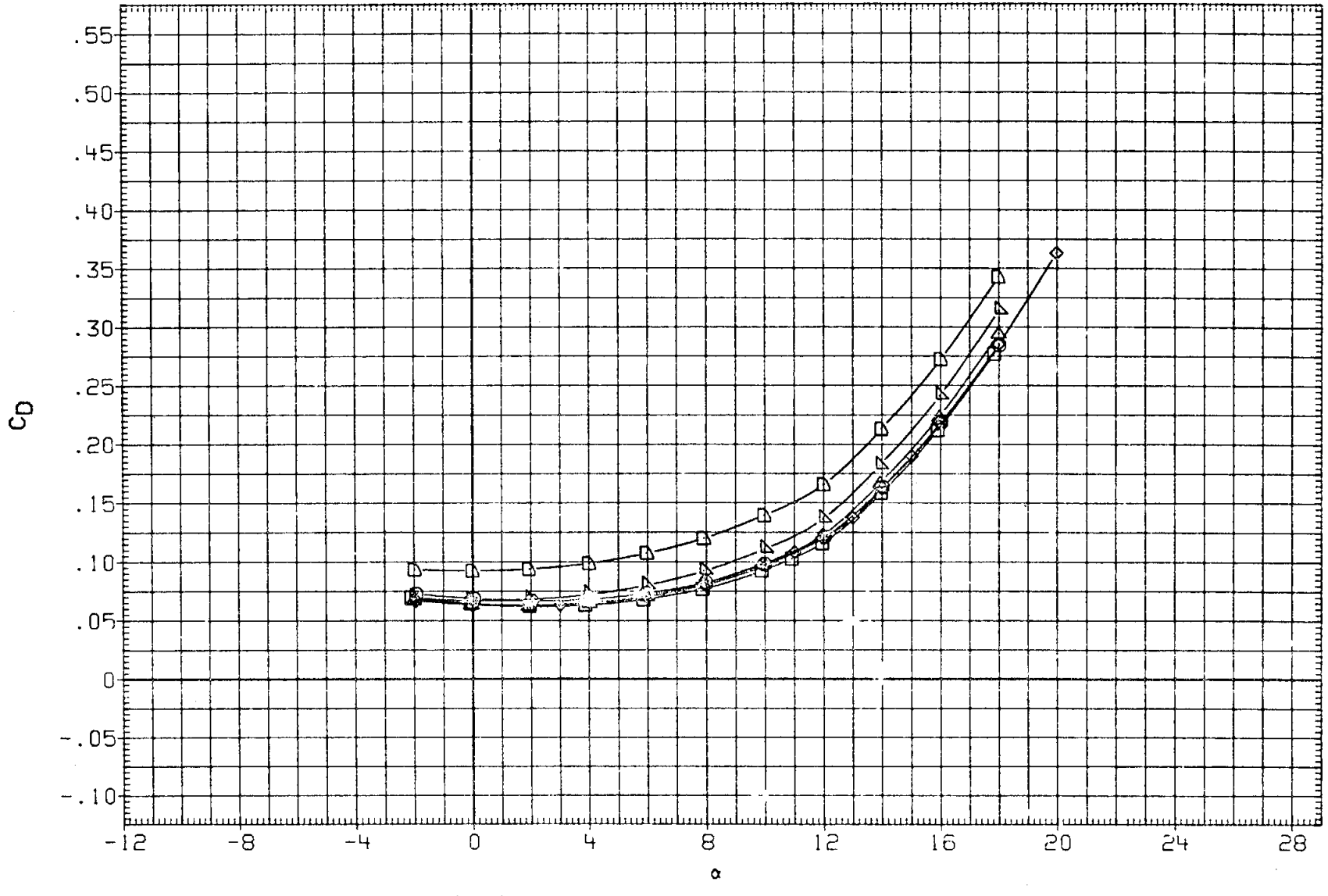

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

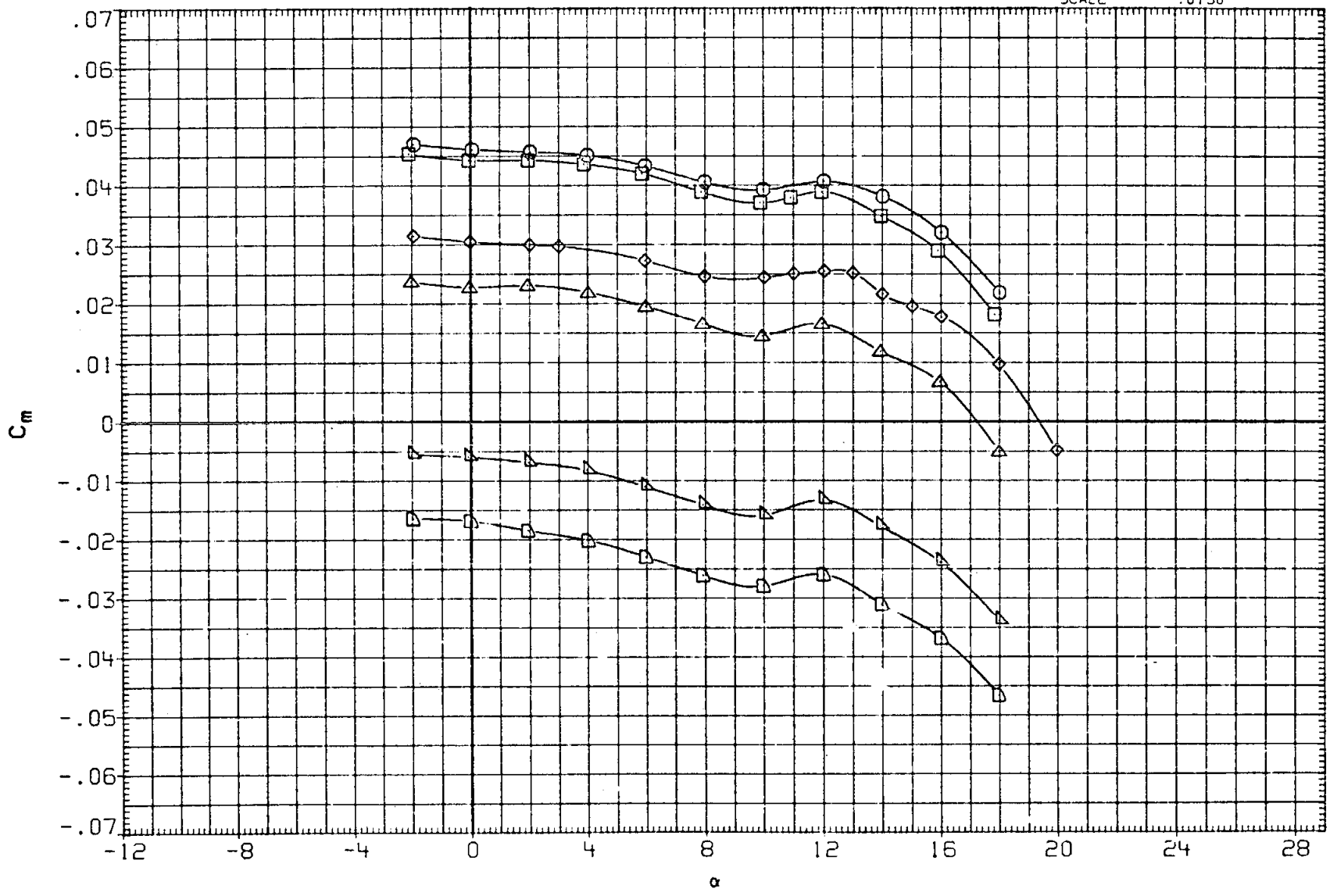

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◺	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

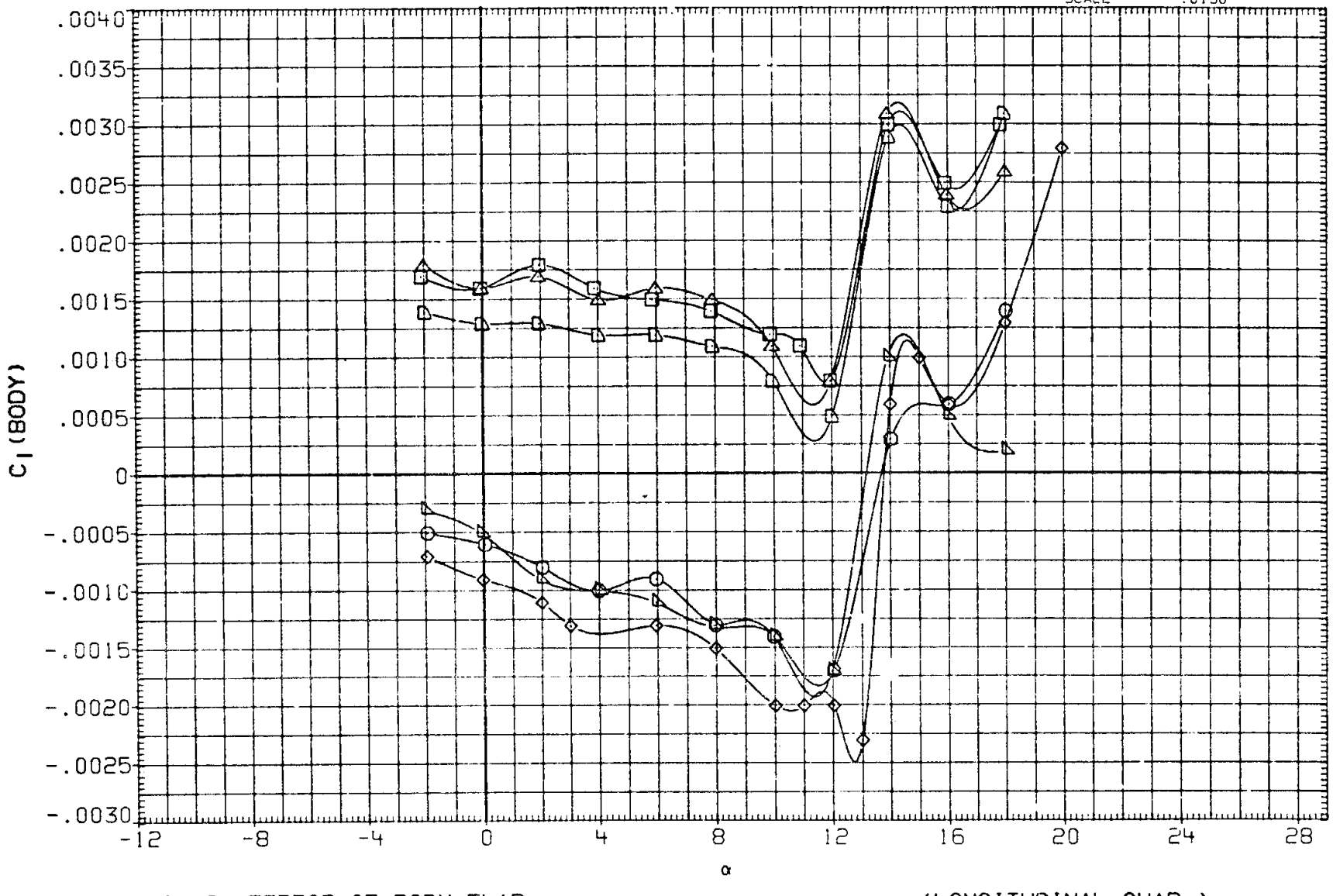

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

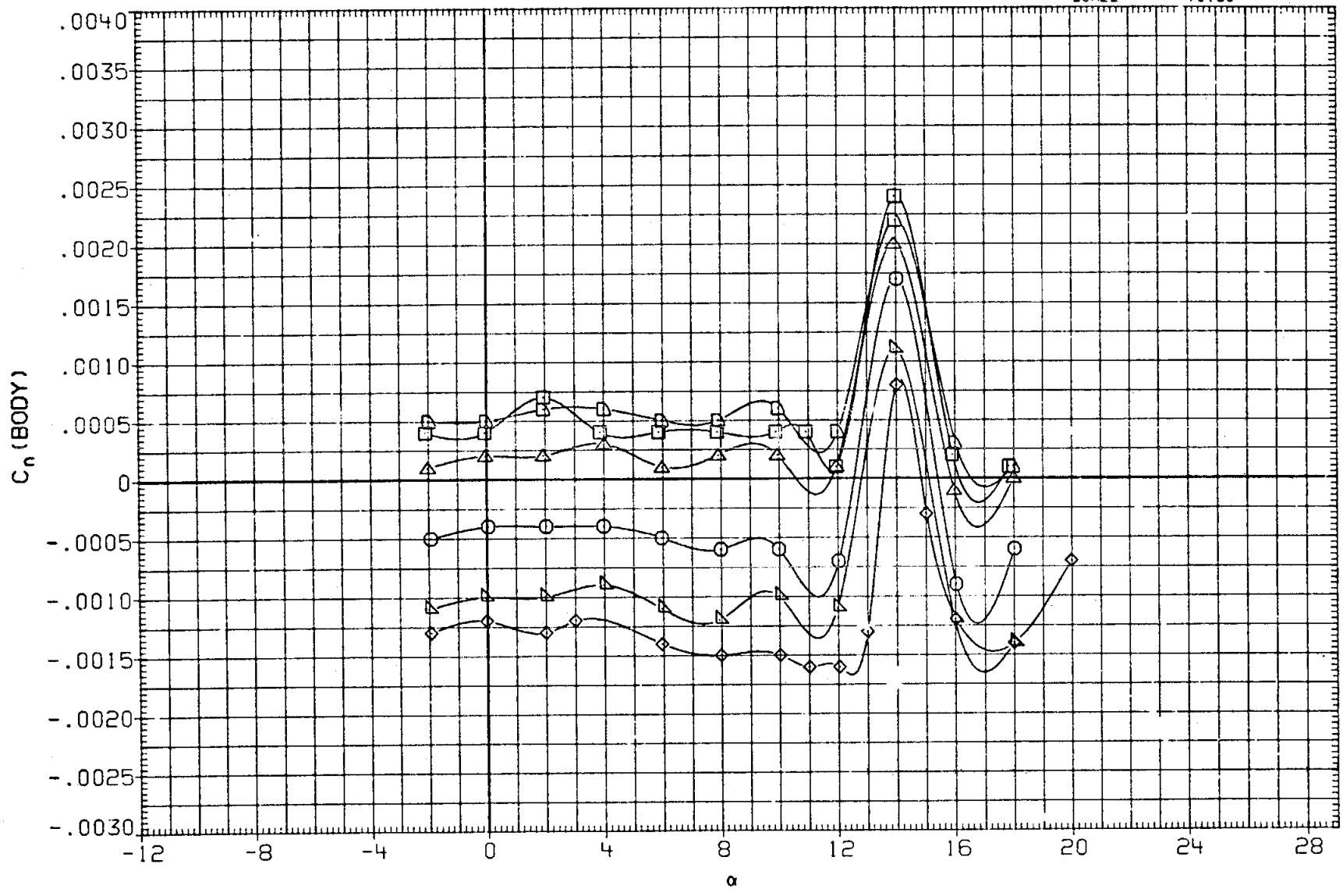

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B018	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◺	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

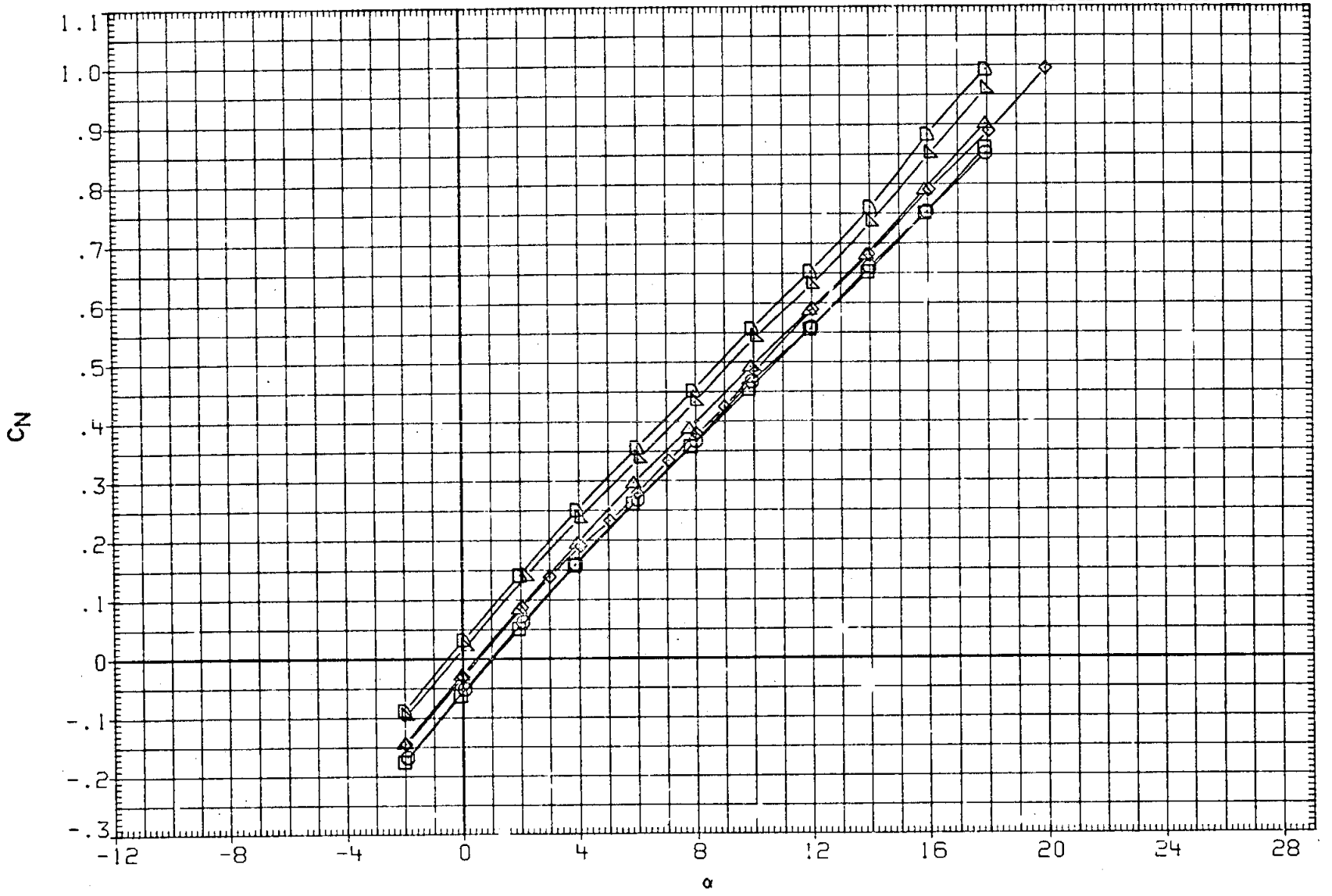

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

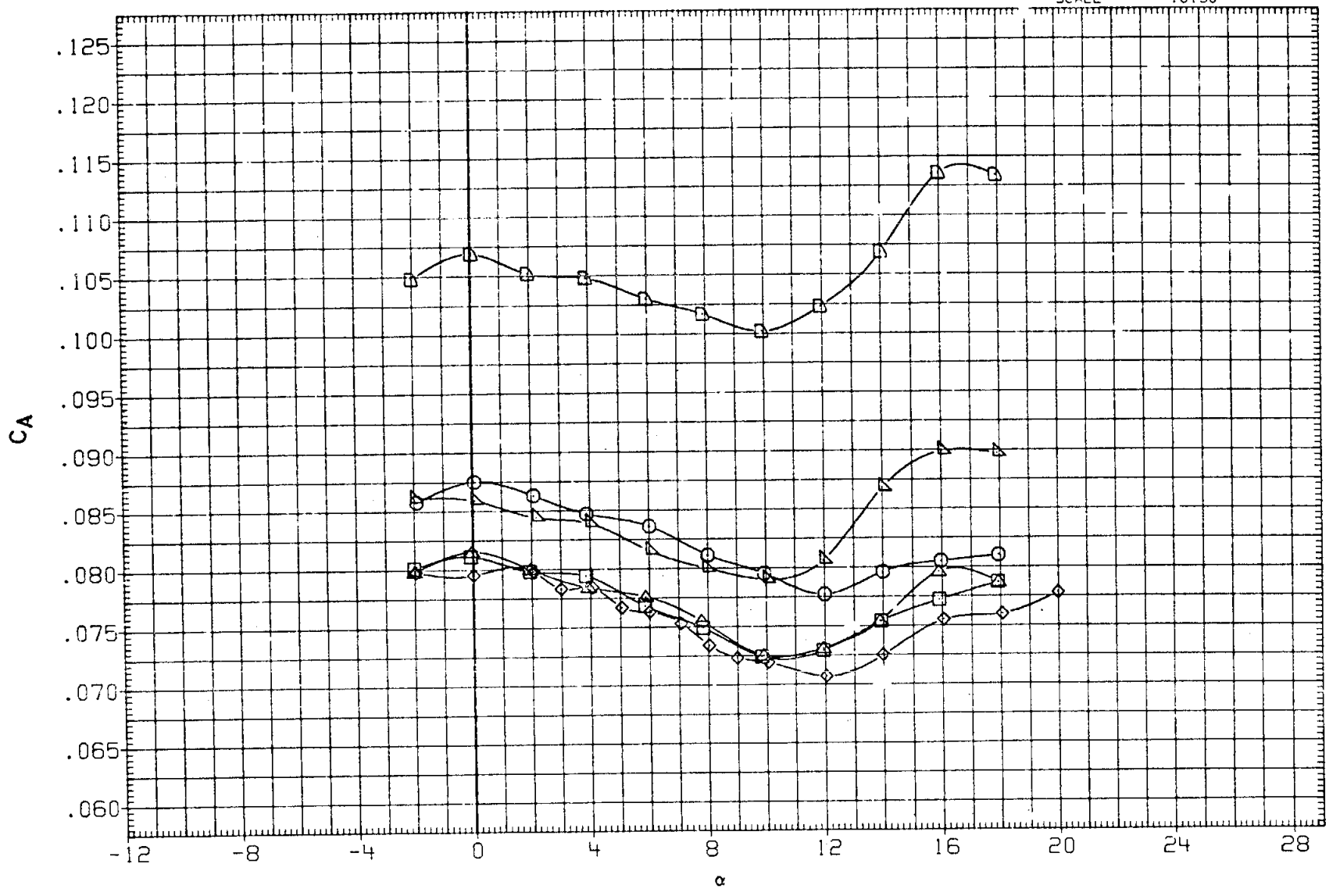

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

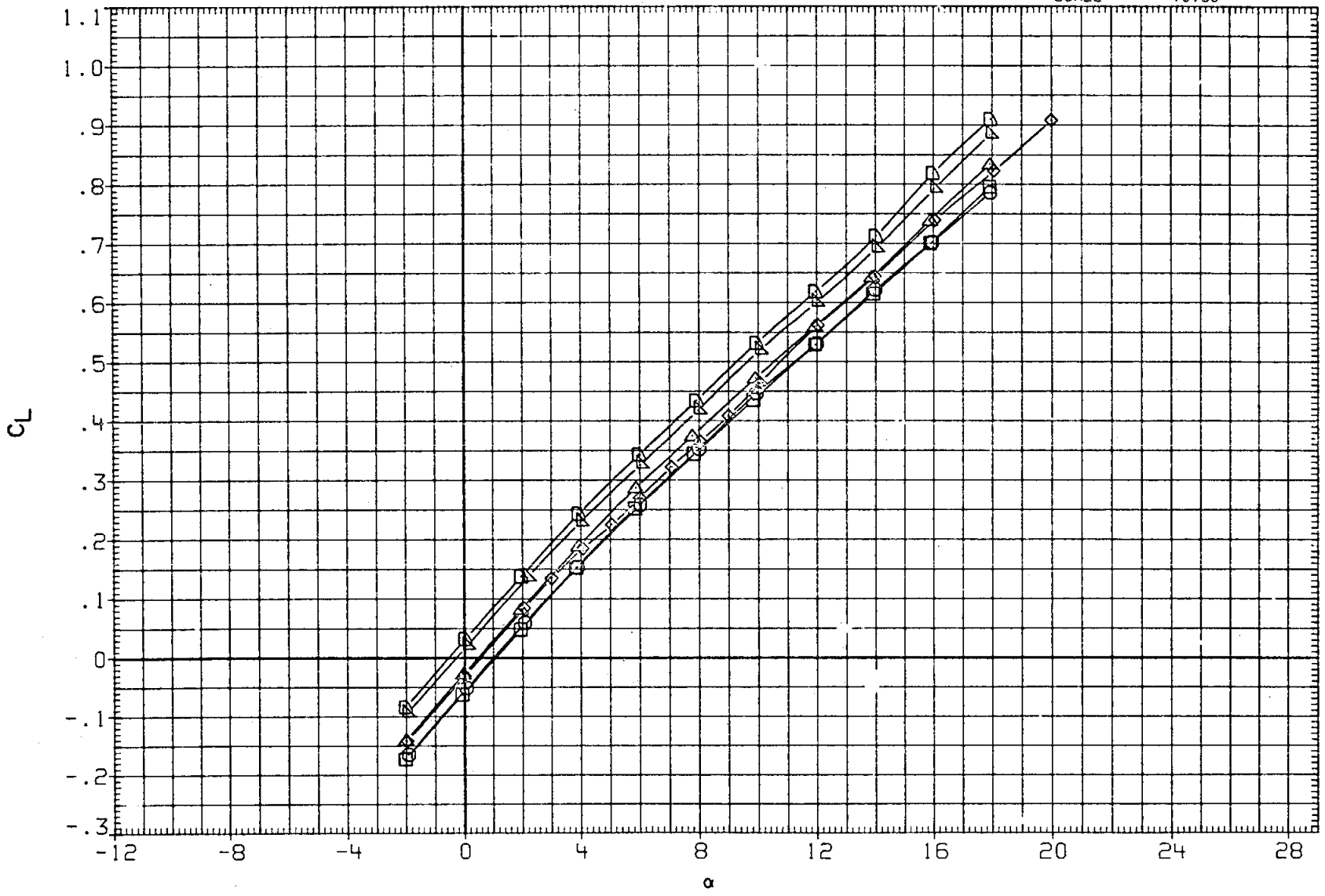

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

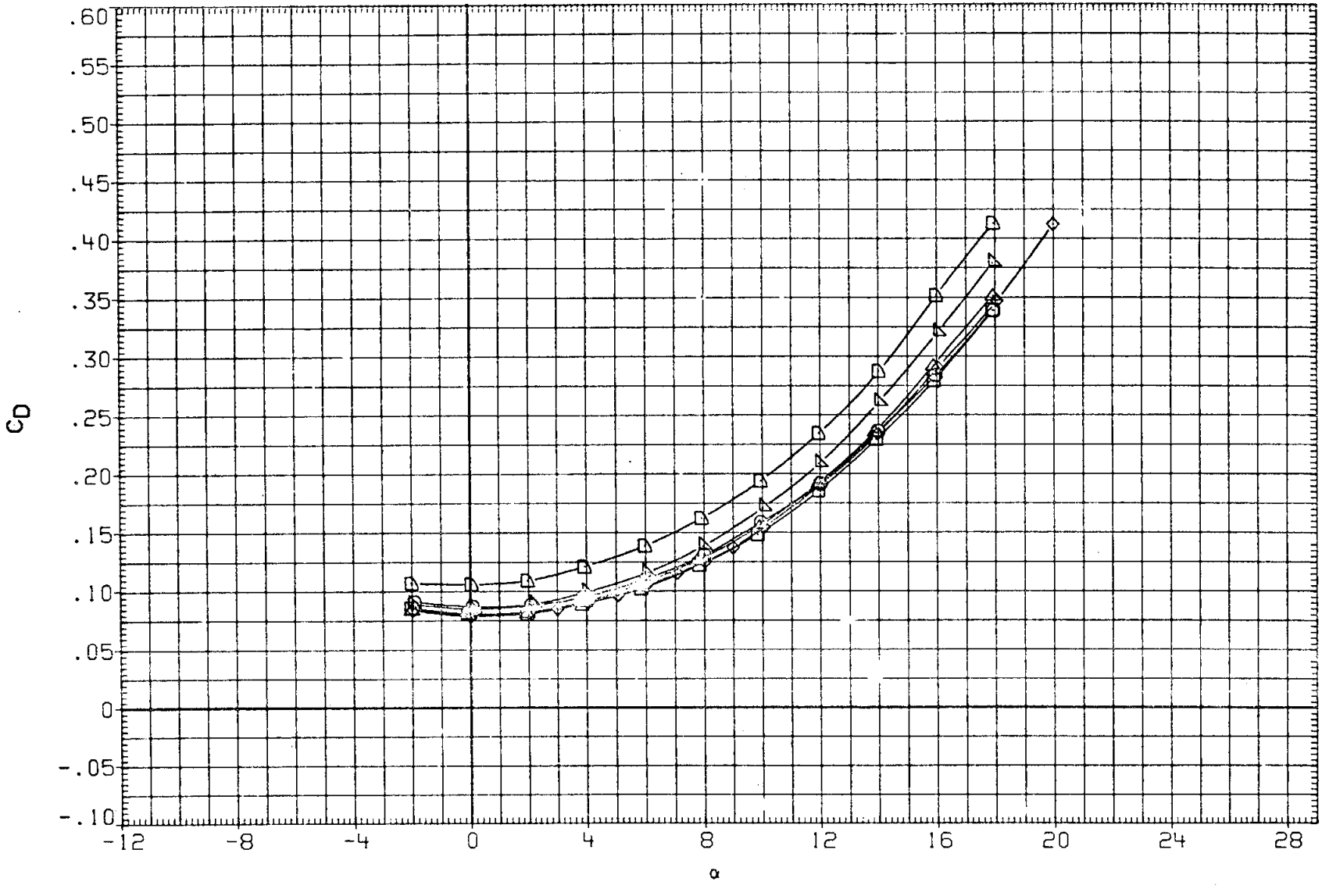

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

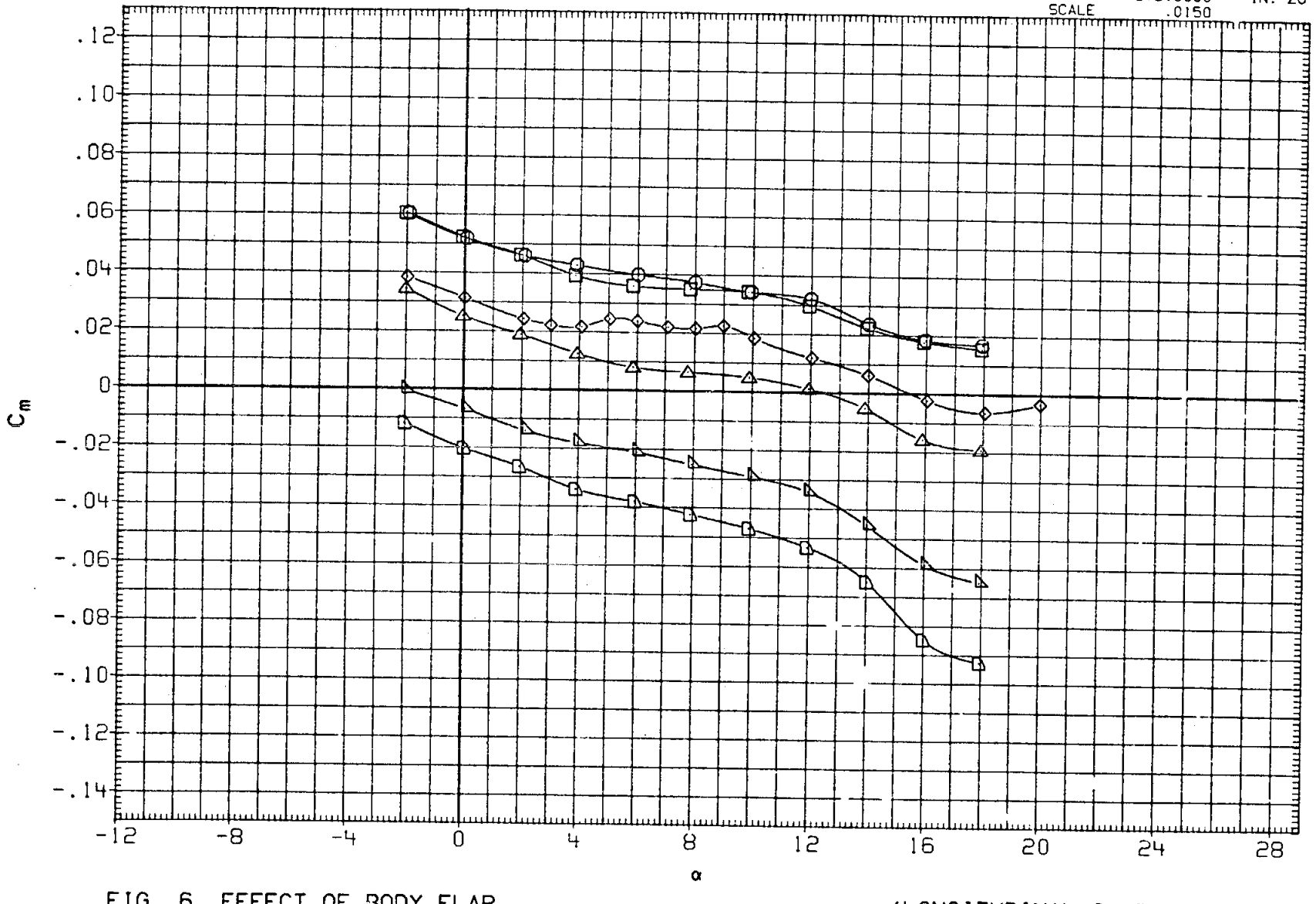

FIG. 6 EFFECT OF BODY FLAP

(LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	▷	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.3000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

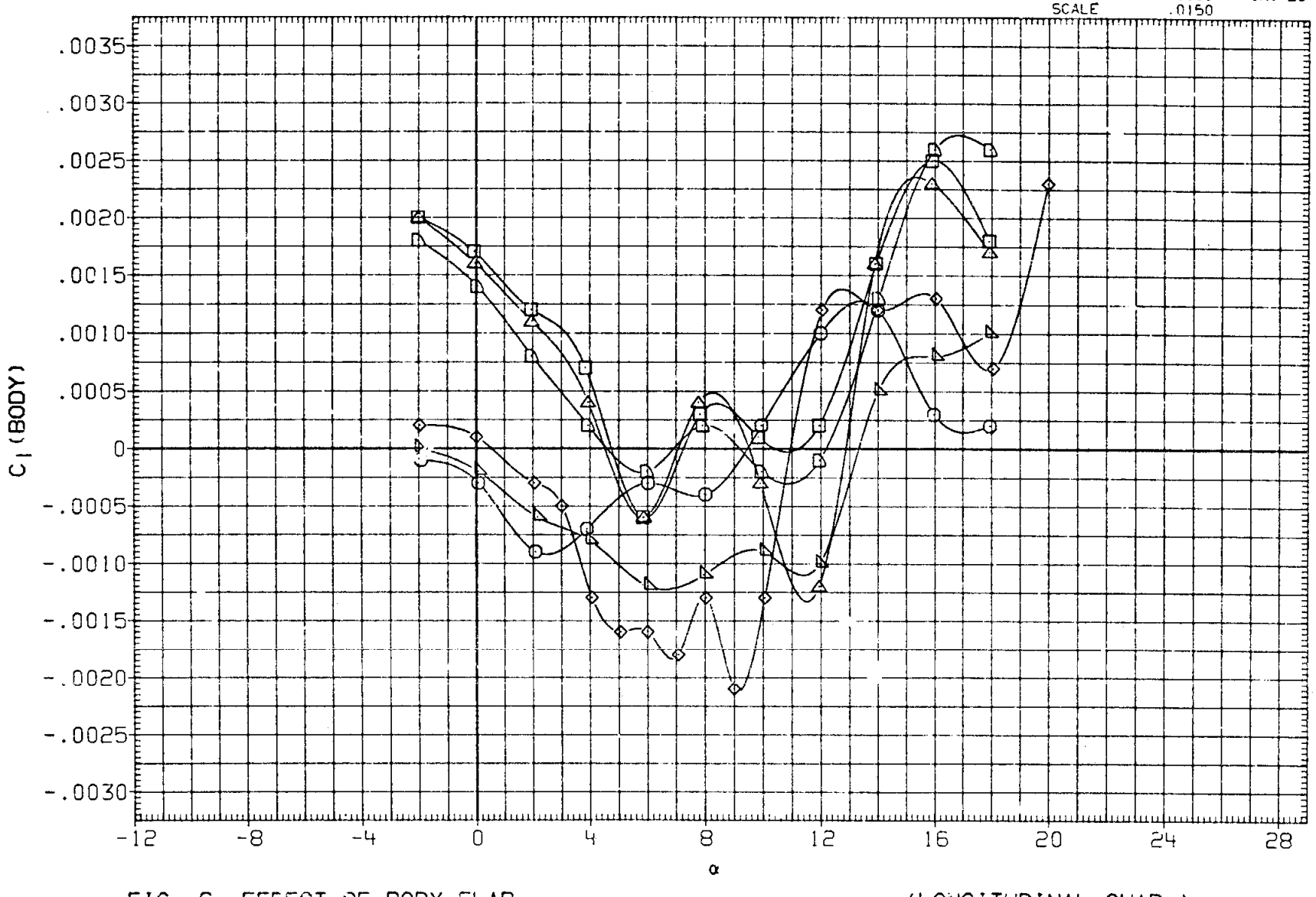

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

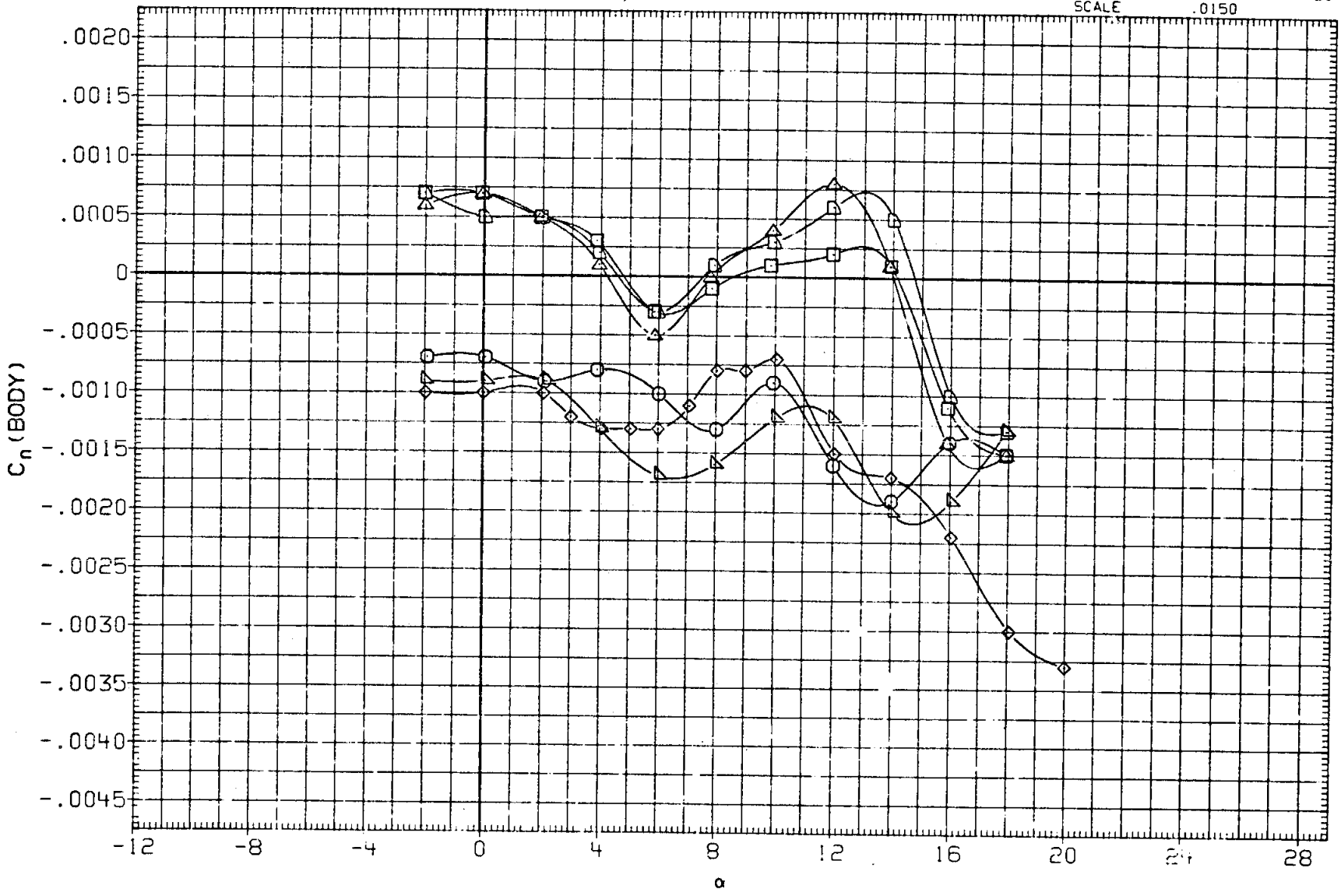

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	◺	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

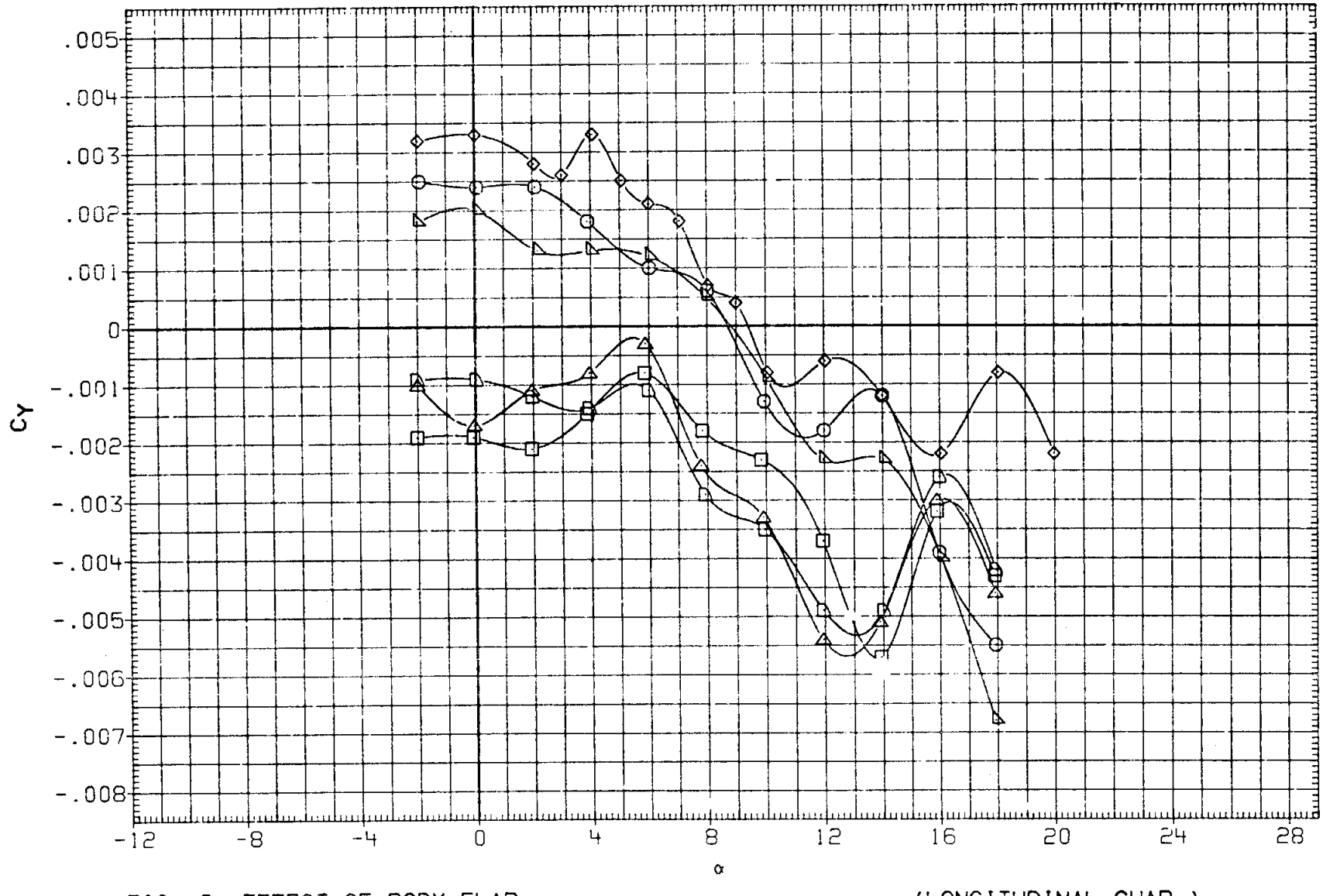

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	⬠	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

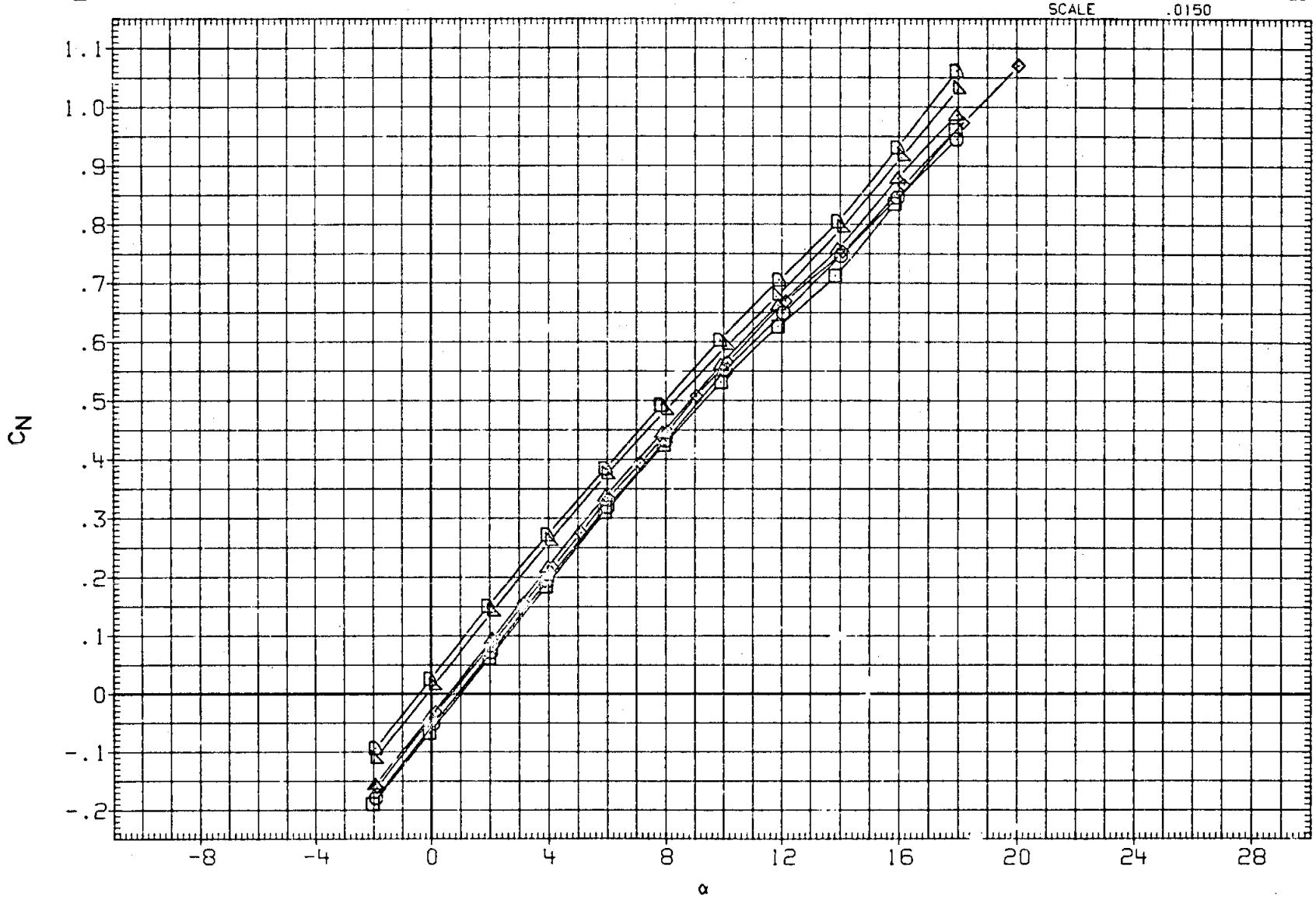

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

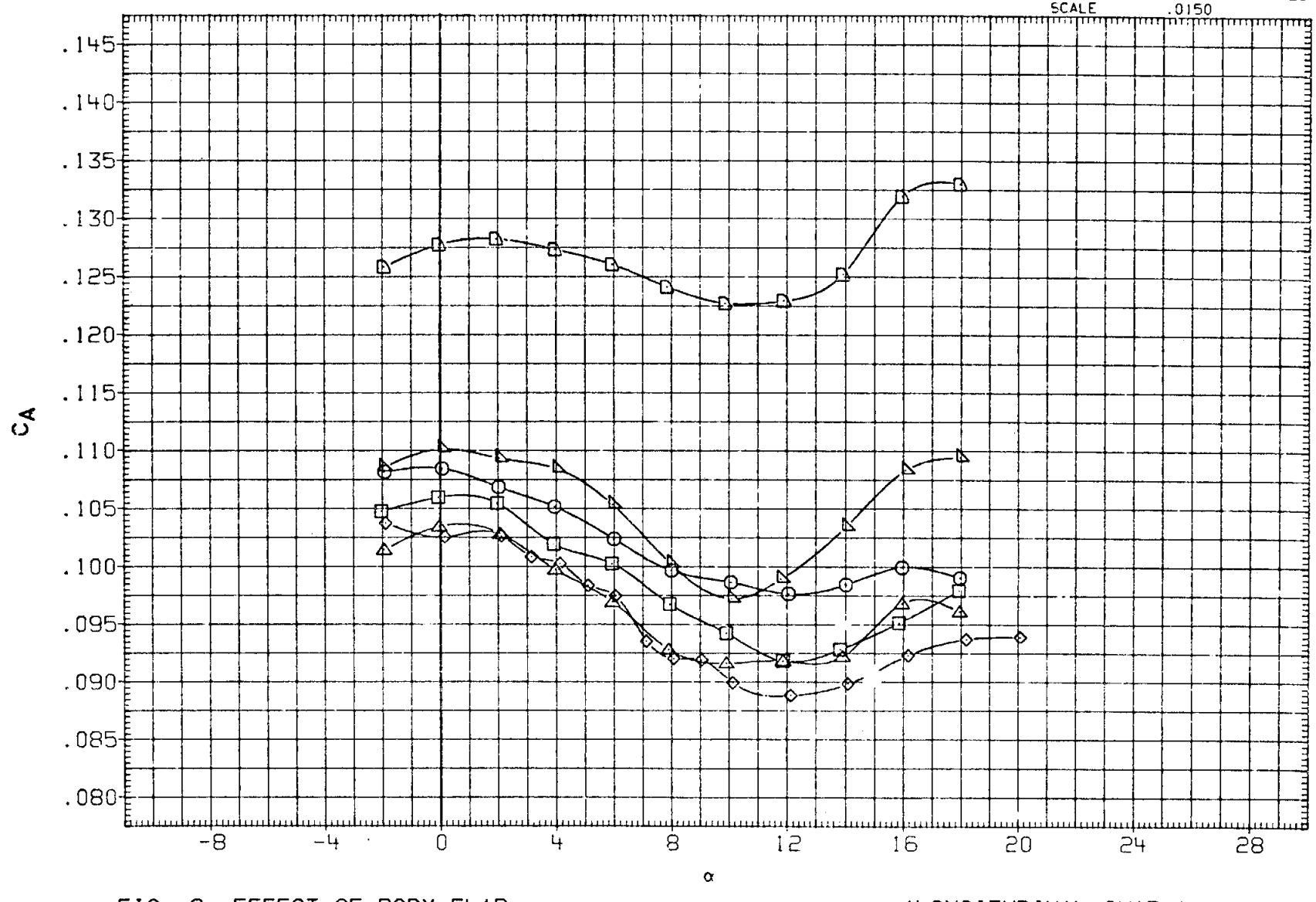

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	⬠	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

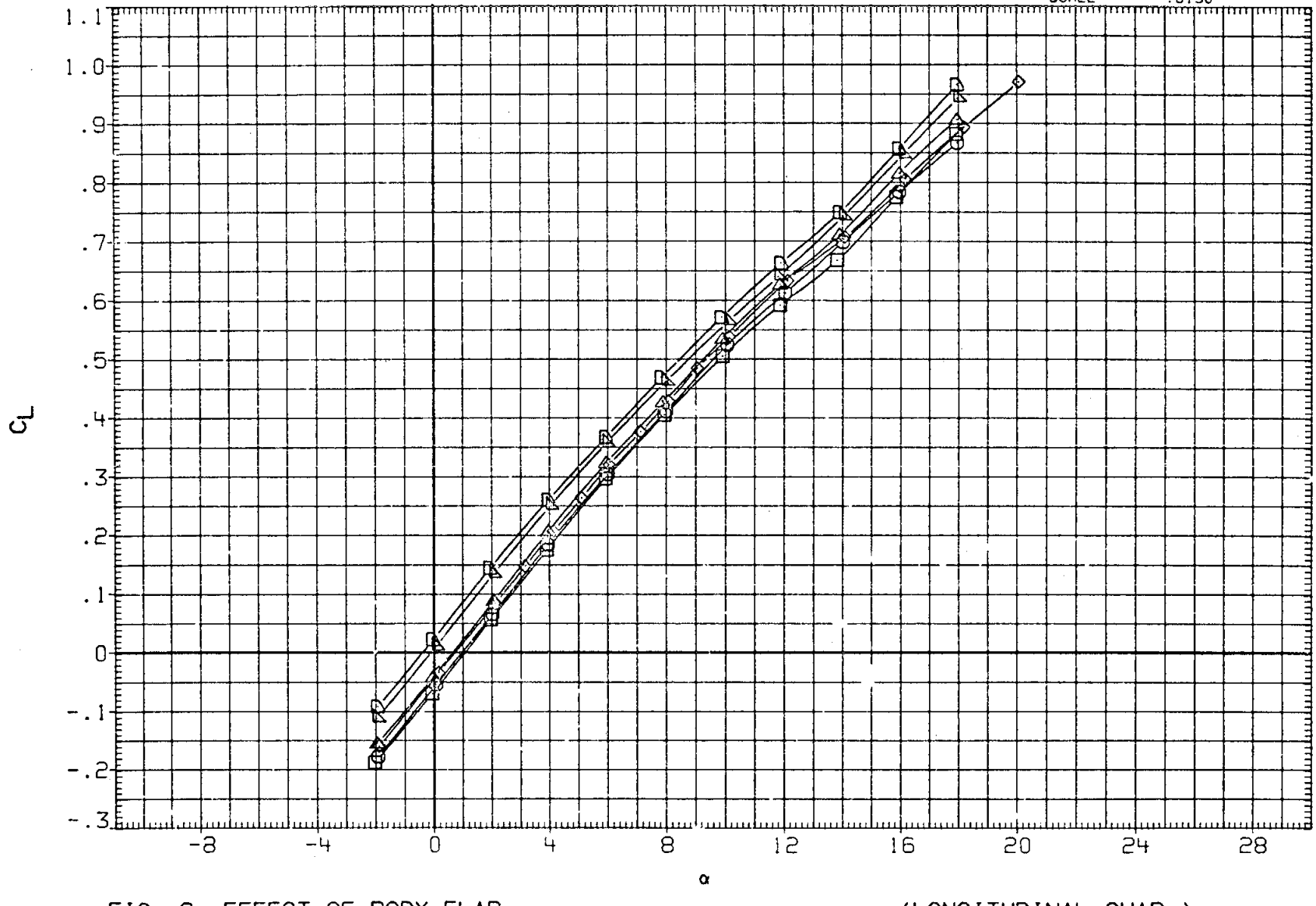

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

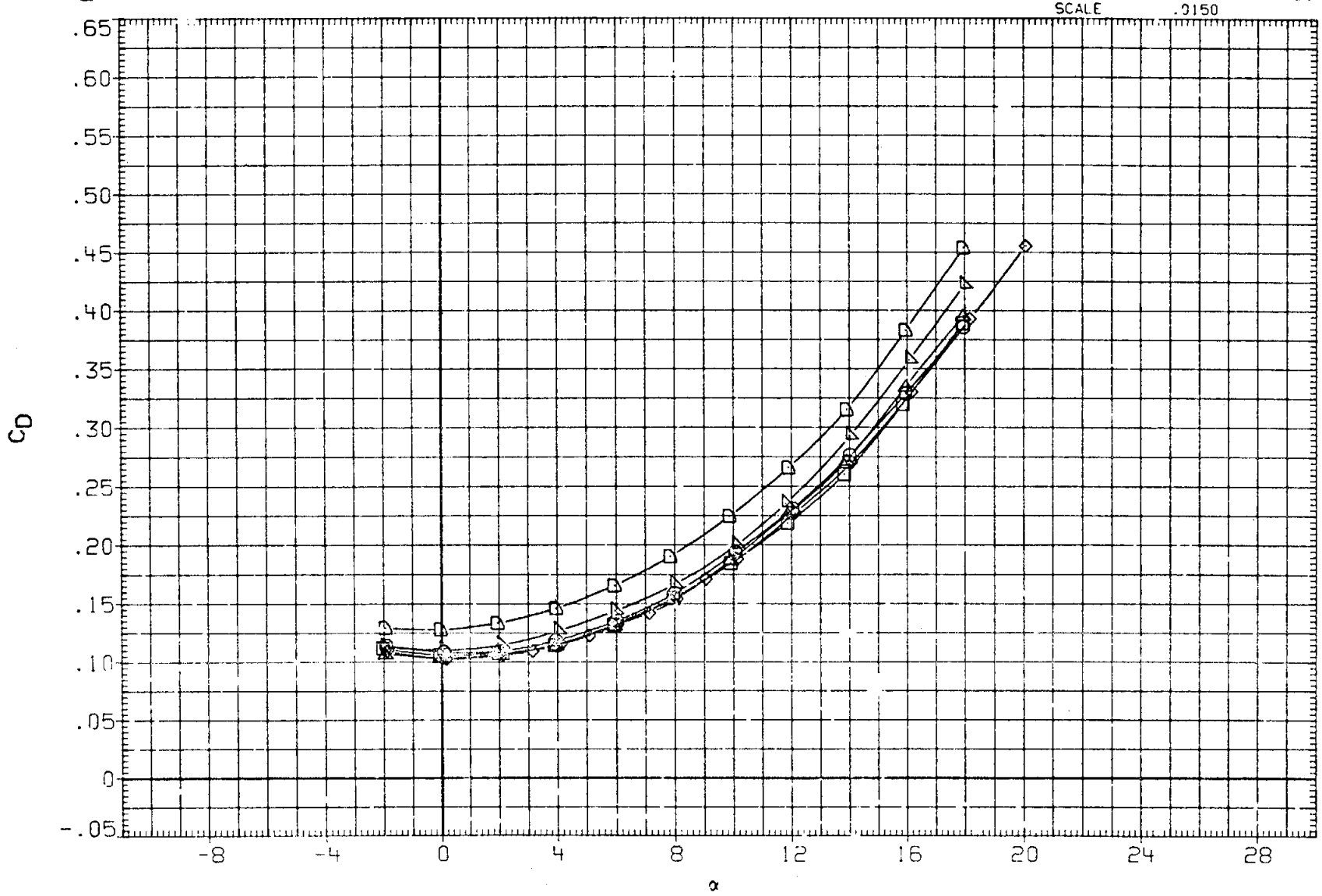

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	◗	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

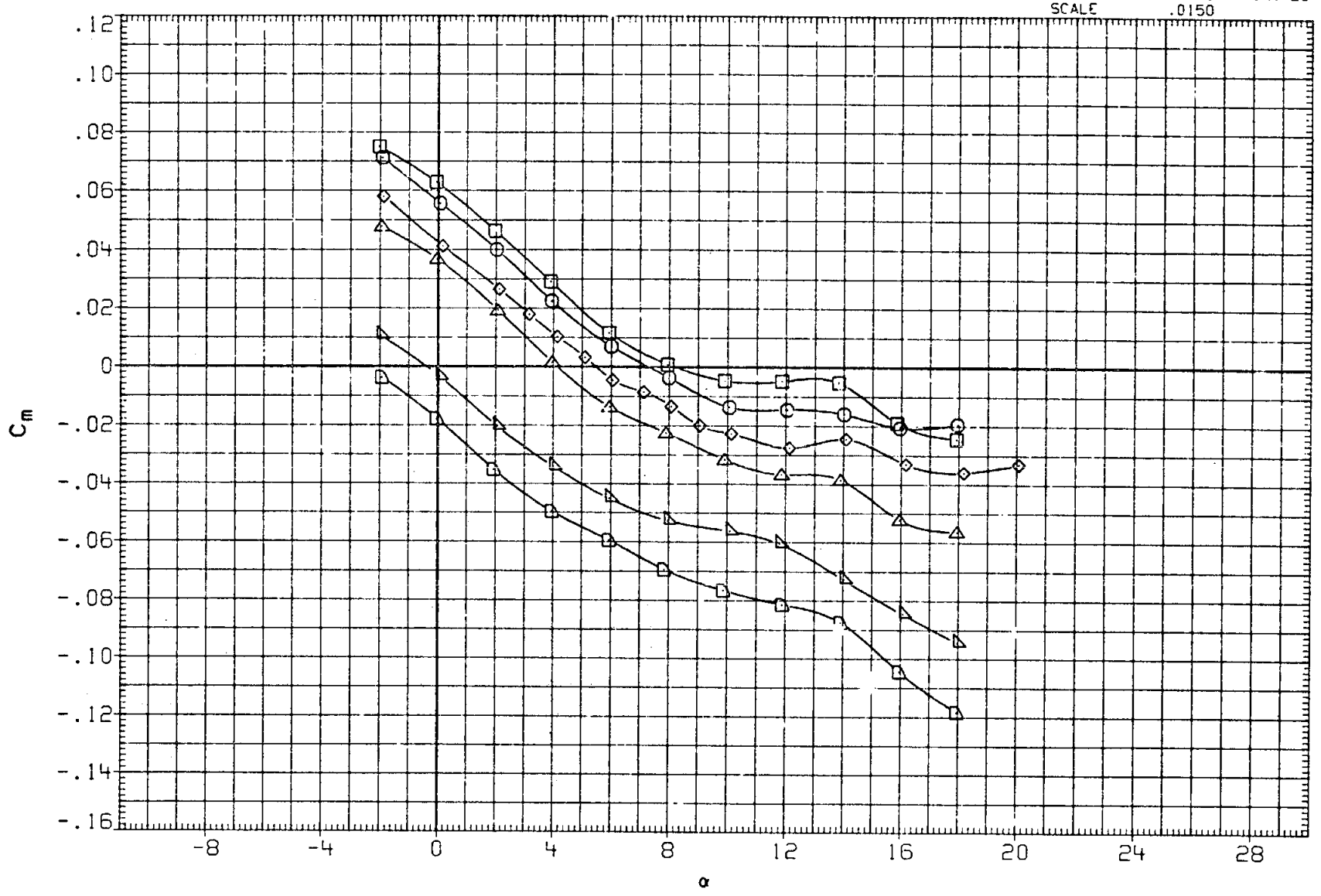

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

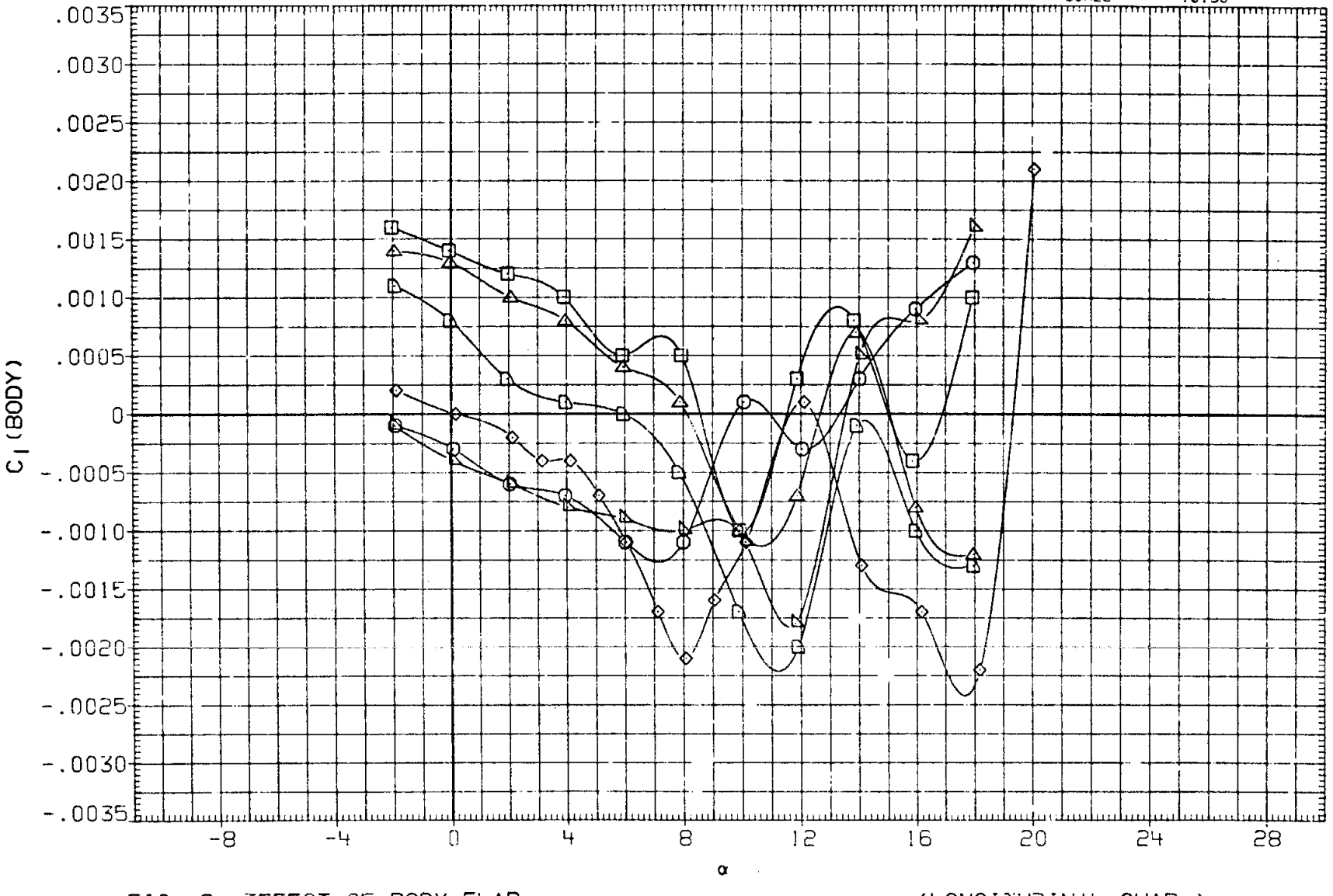

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B145	○	ARC 200-1 11(LA77) OV101
R2B211	□	ARC 200-1 11(LA77) OV101
R2B001	◇	ARC 200-1 11(LA77) OV101
R2B203	△	ARC 200-1 11(LA77) OV101
R2B161	◺	ARC 200-1 11(LA77) OV101
R2B195	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
25.000	-11.700	.000	.000
25.000	-6.000	.000	.000
25.000	.000	.000	.000
25.000	6.000	.000	.000
25.000	16.300	.000	.000
25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

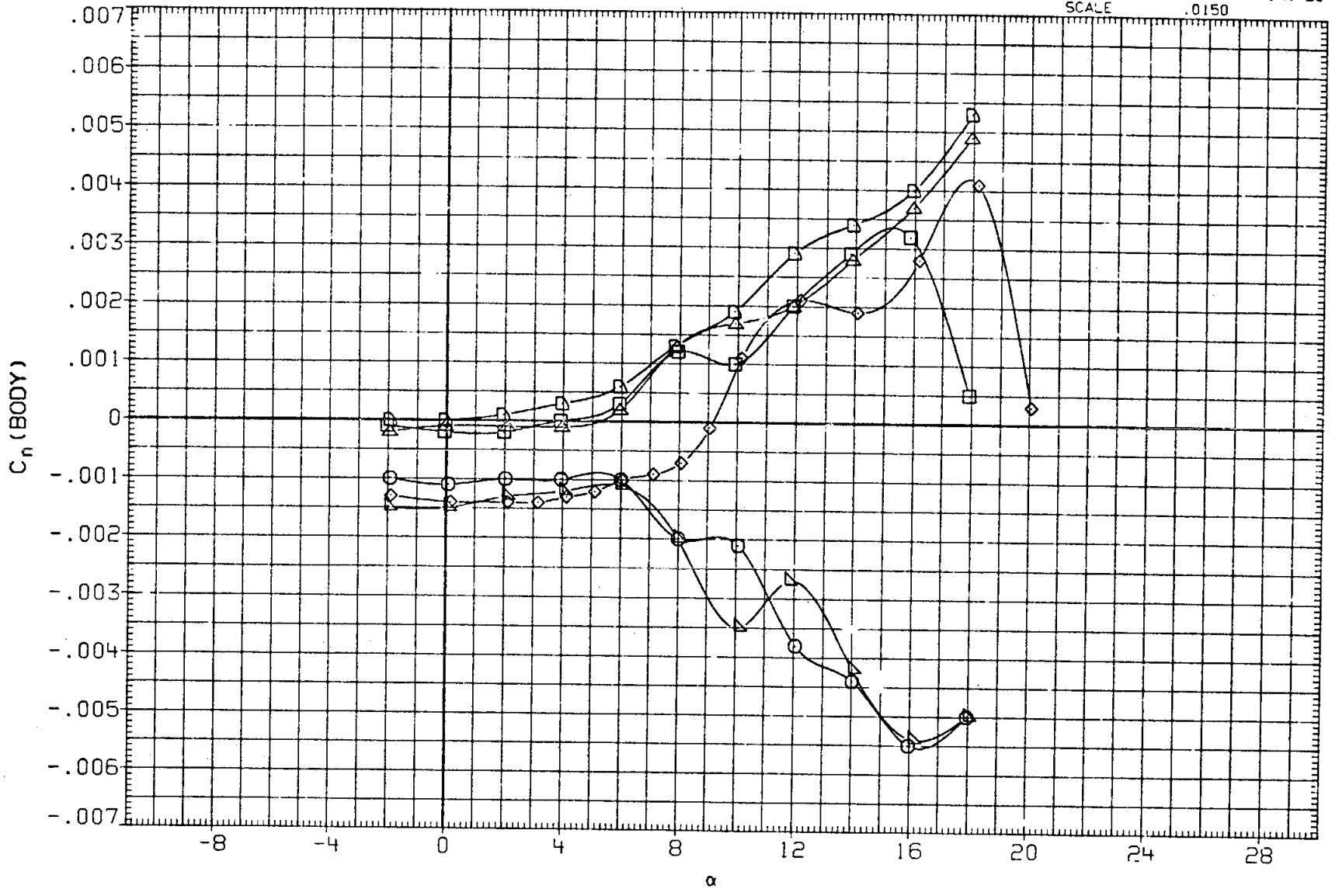

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

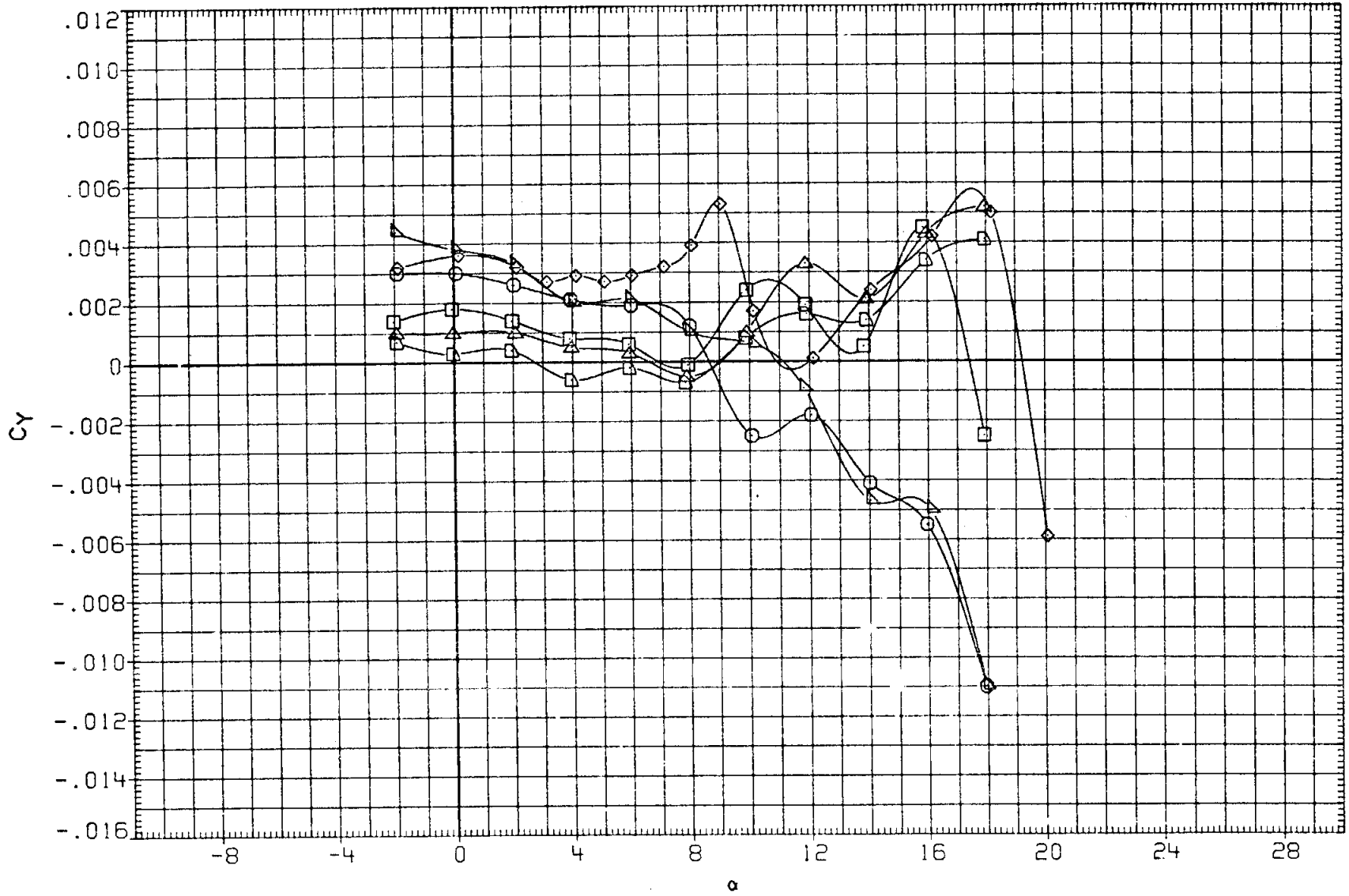

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	▷	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

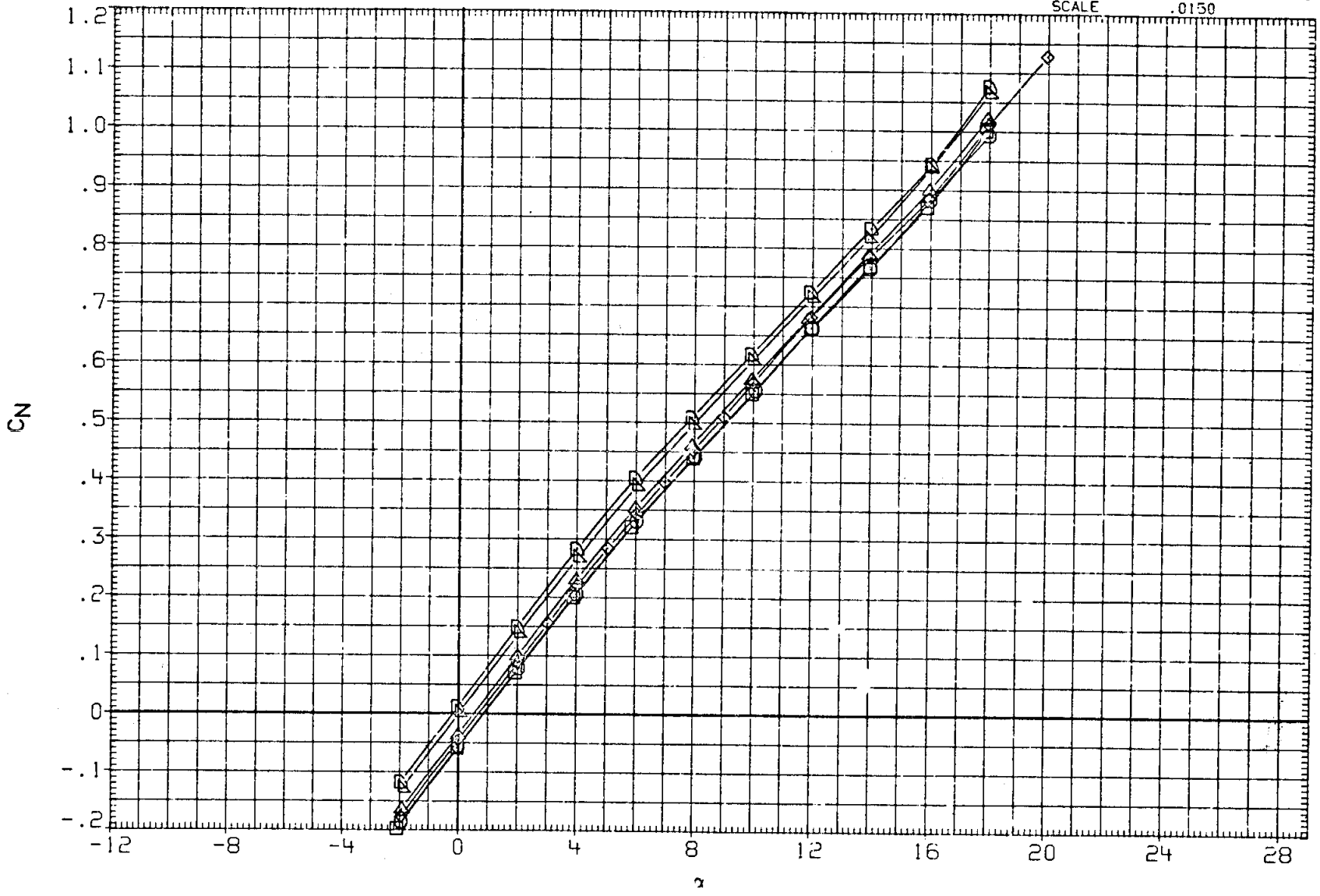

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

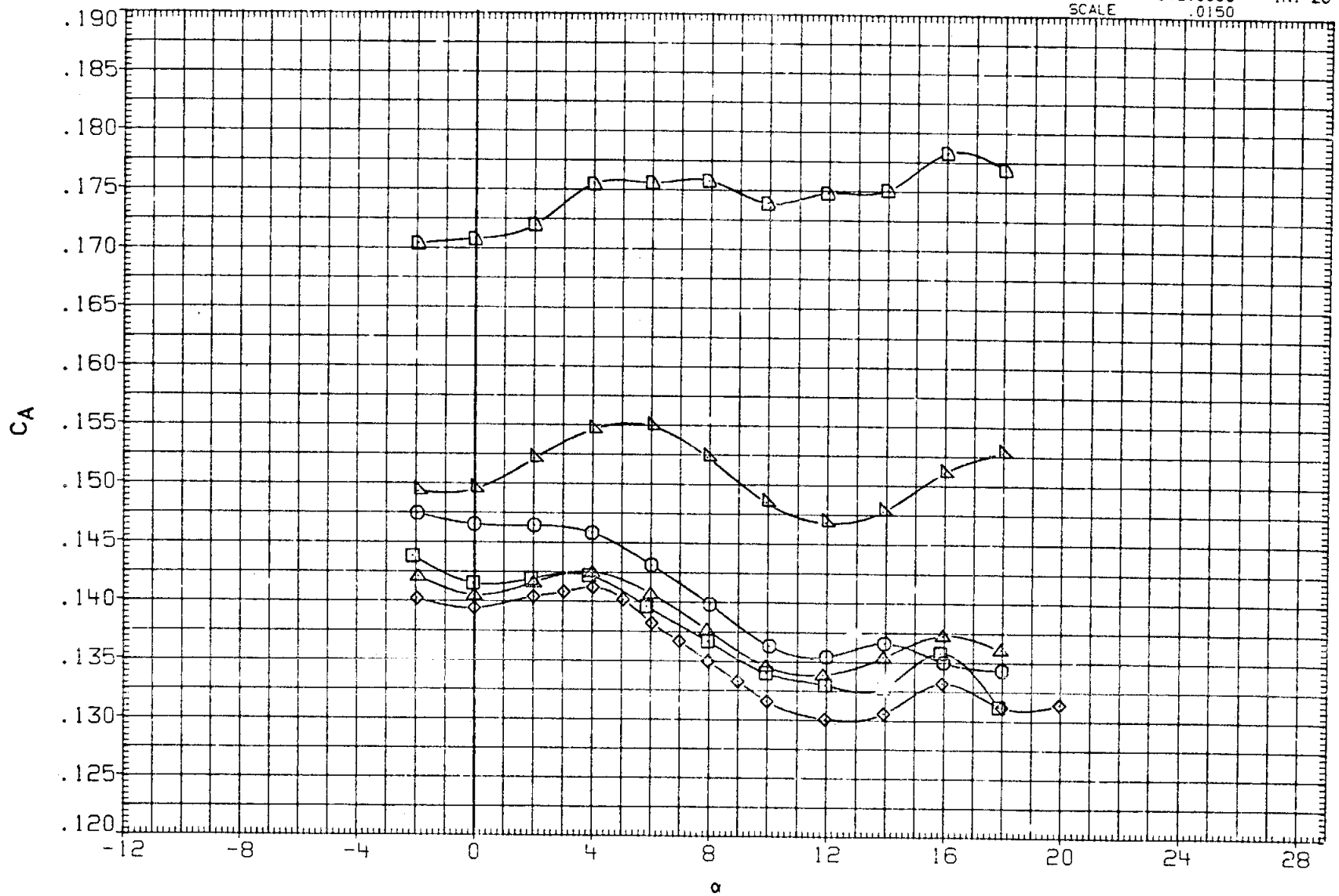

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

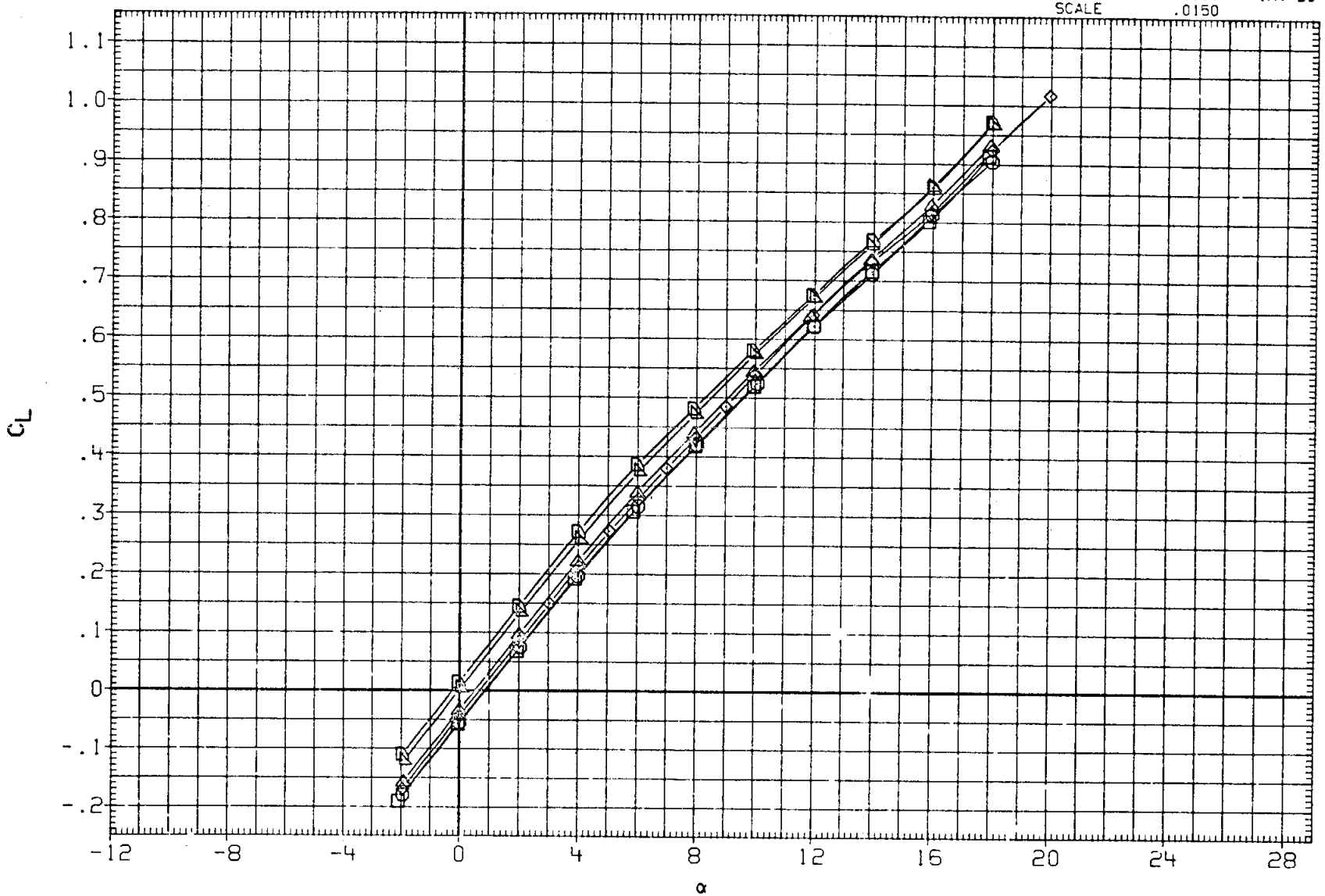

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

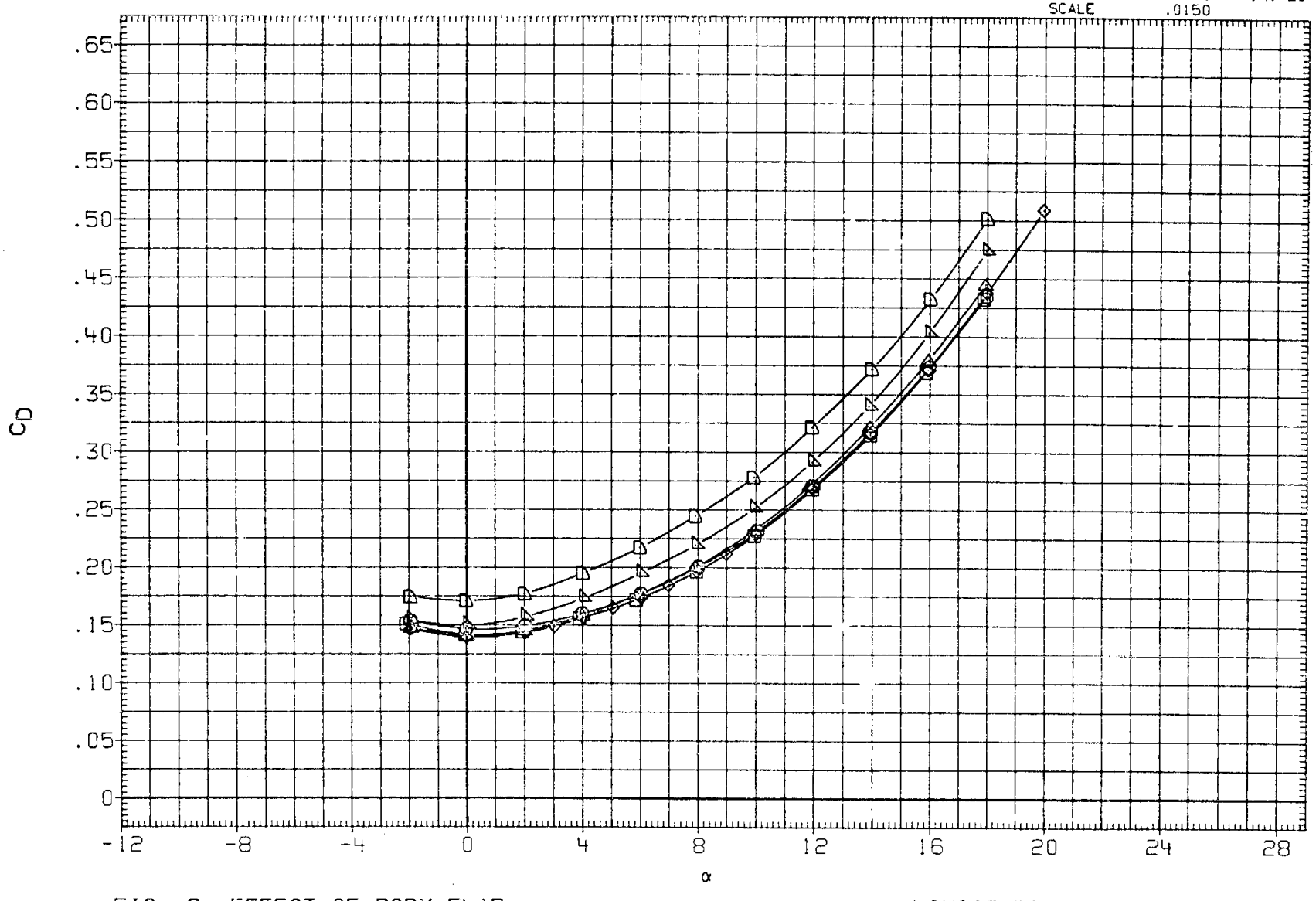

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

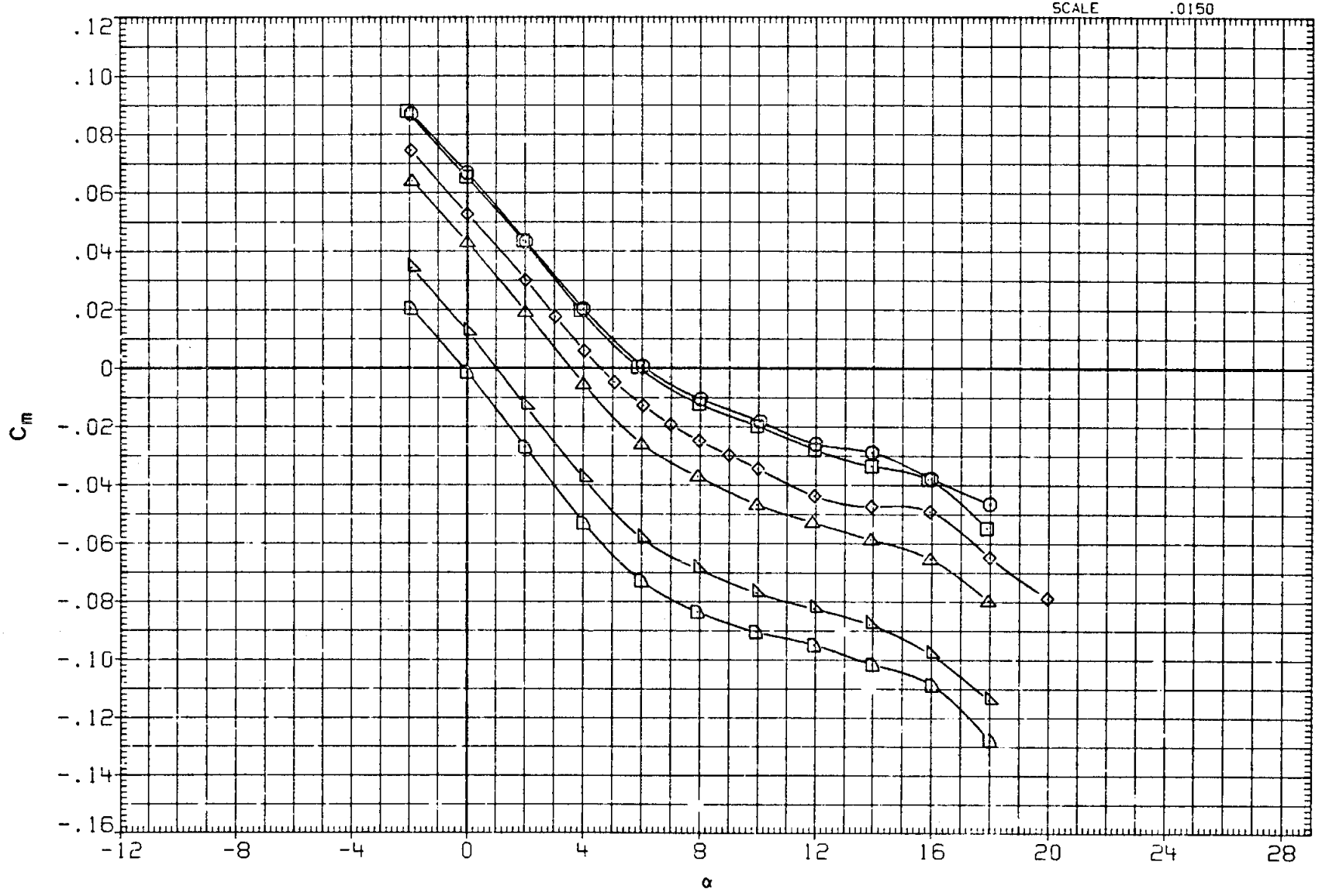

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

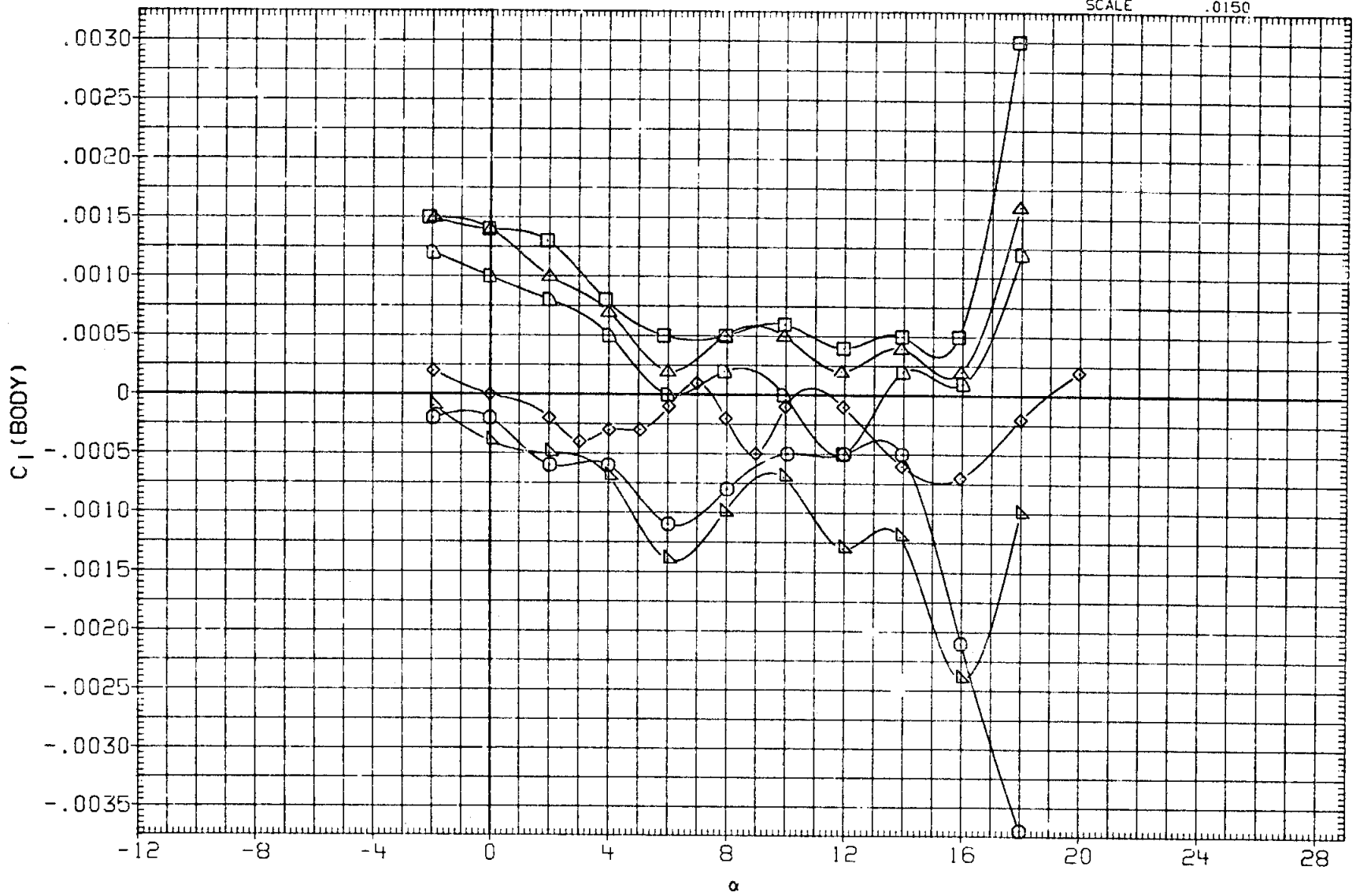

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

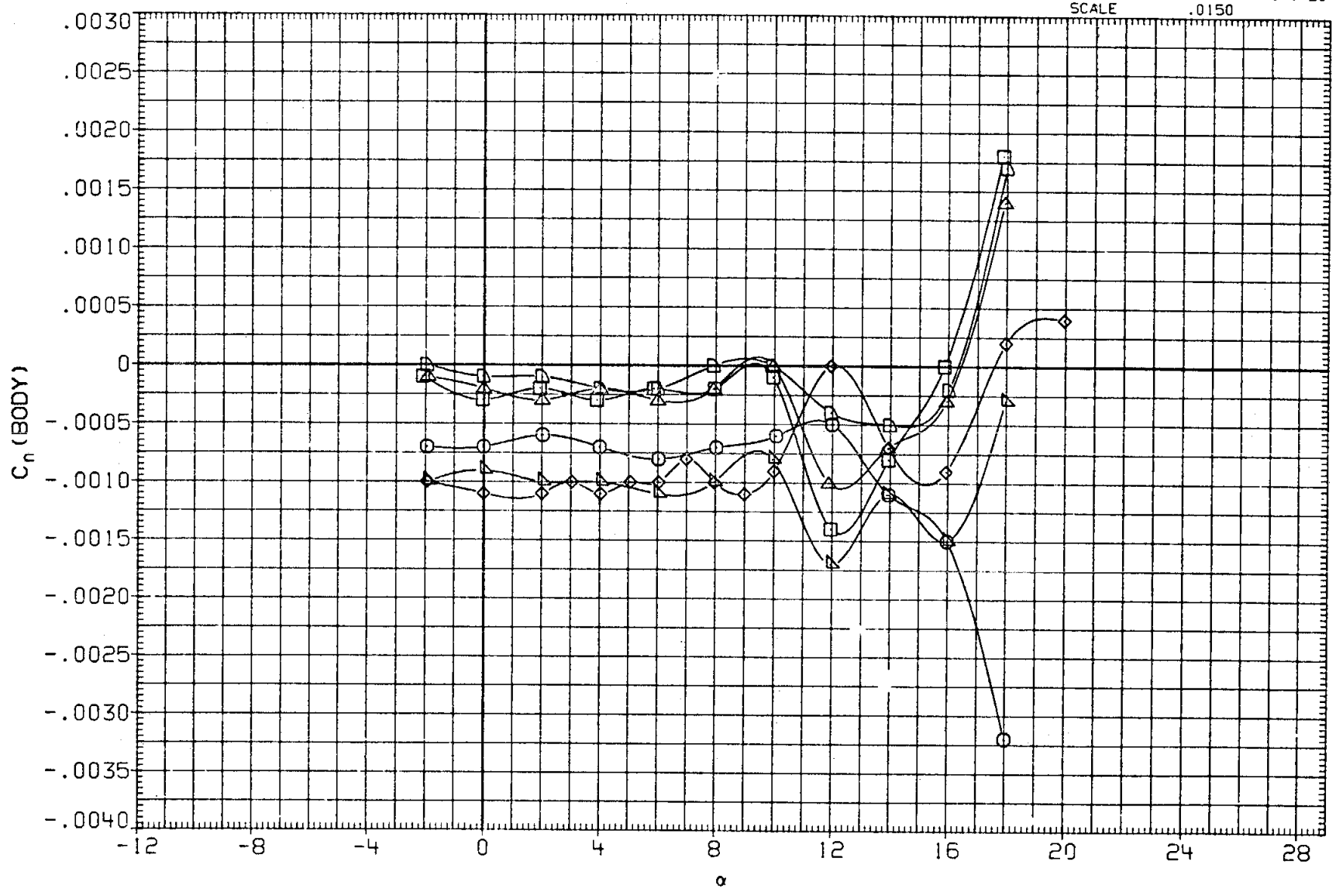

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B145	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B211	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B203	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B161	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B195	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN ZO
SCALE	.0150	

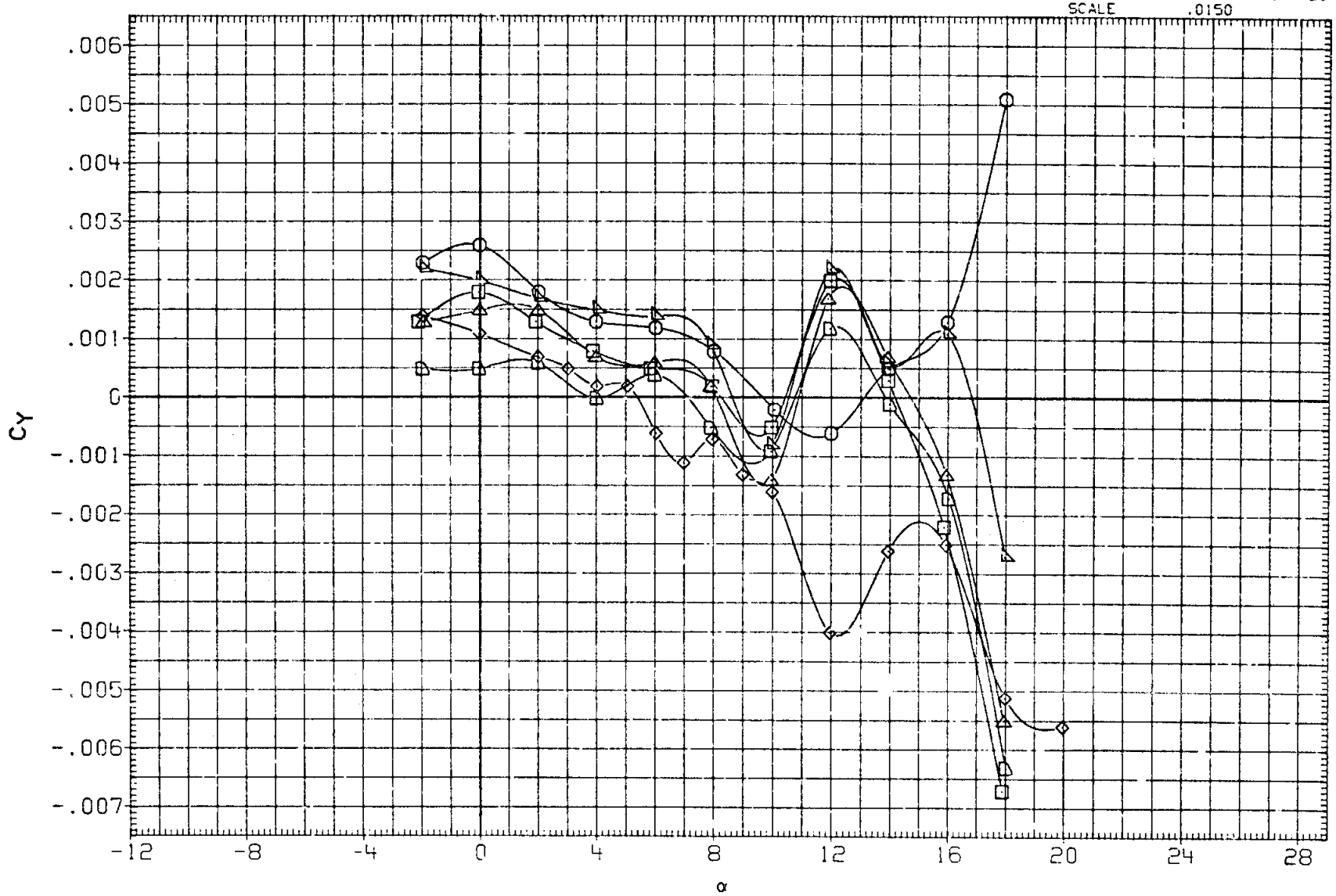

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1075.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

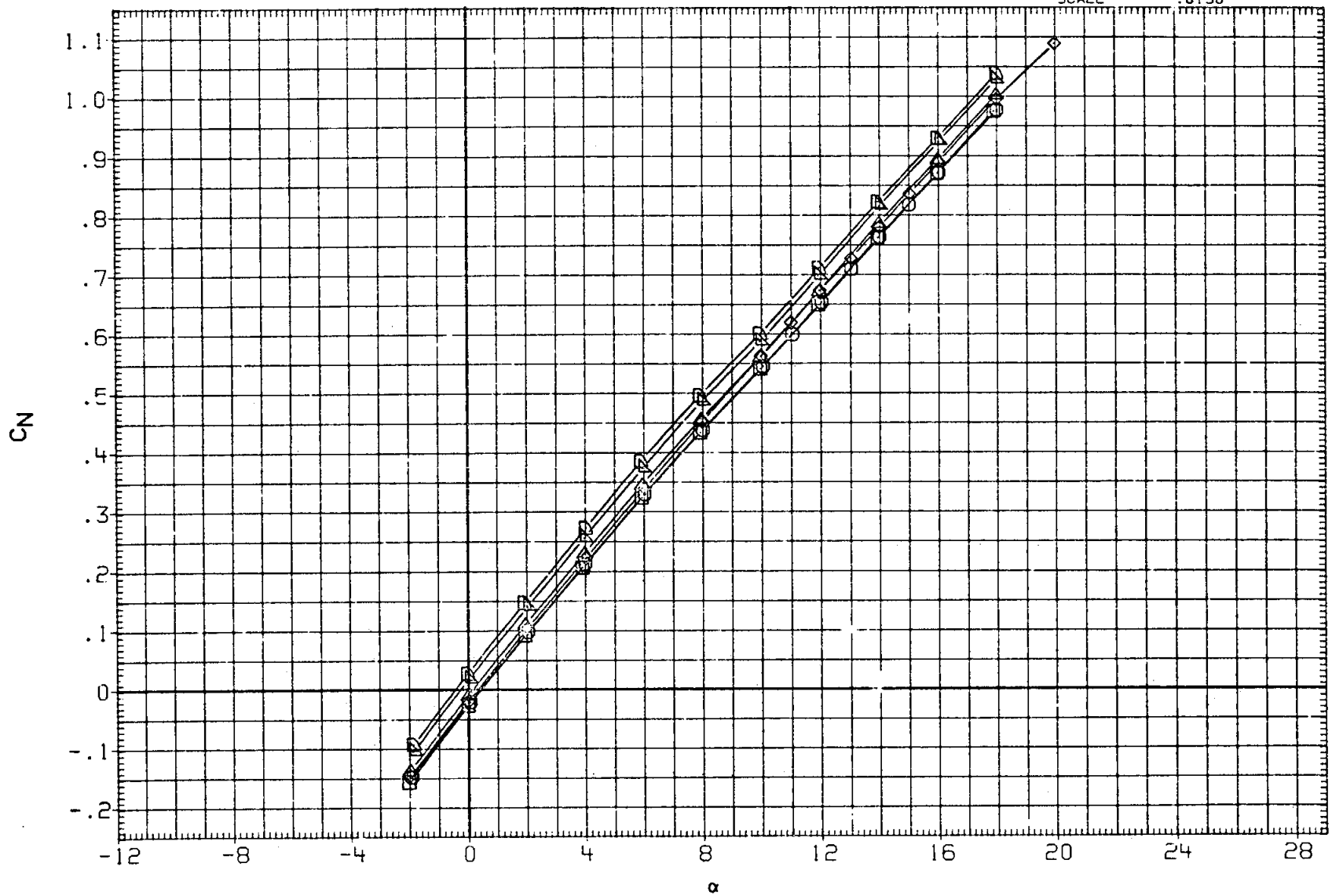

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	⬗	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

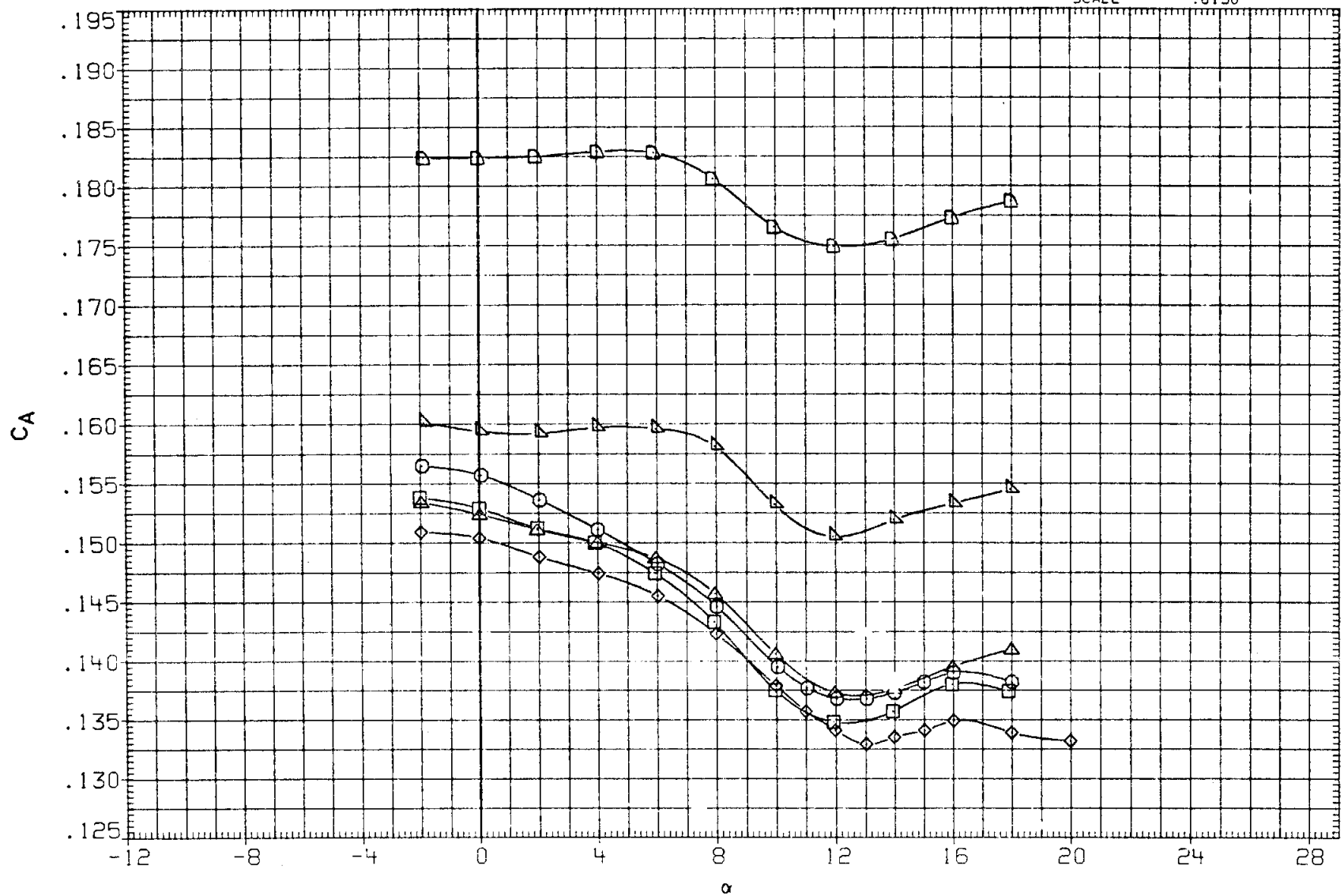

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◸	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

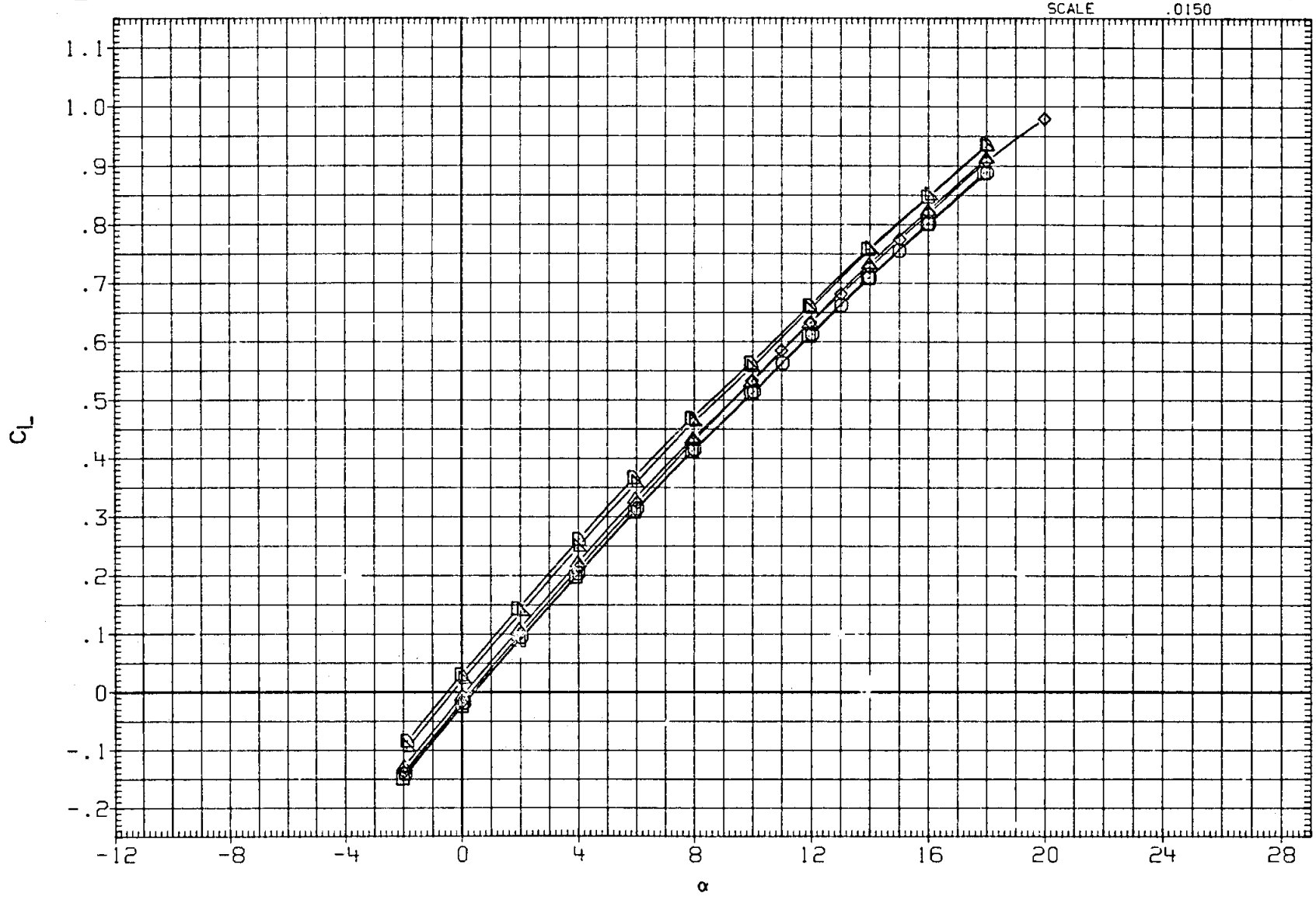

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	⌂	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

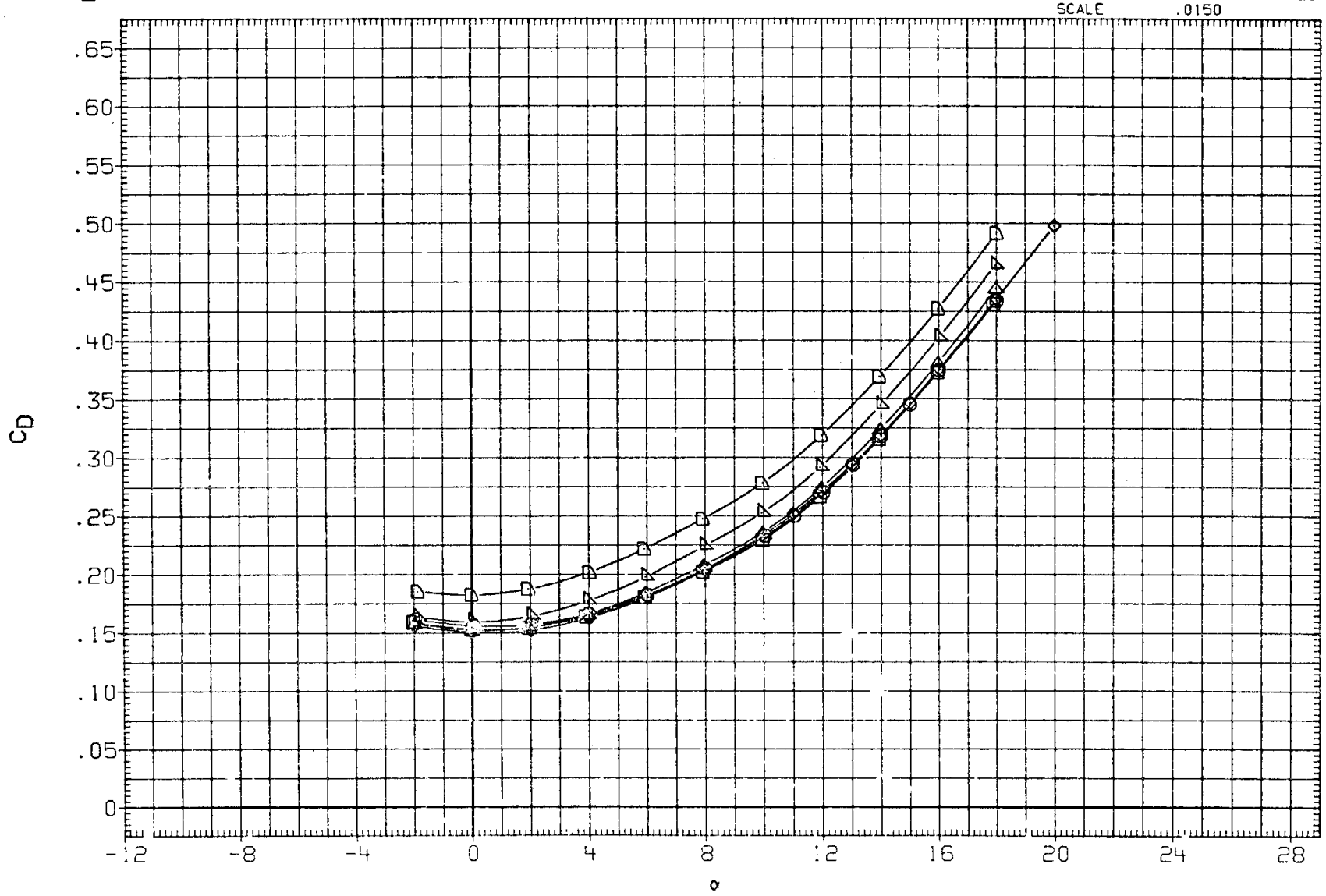

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	D	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

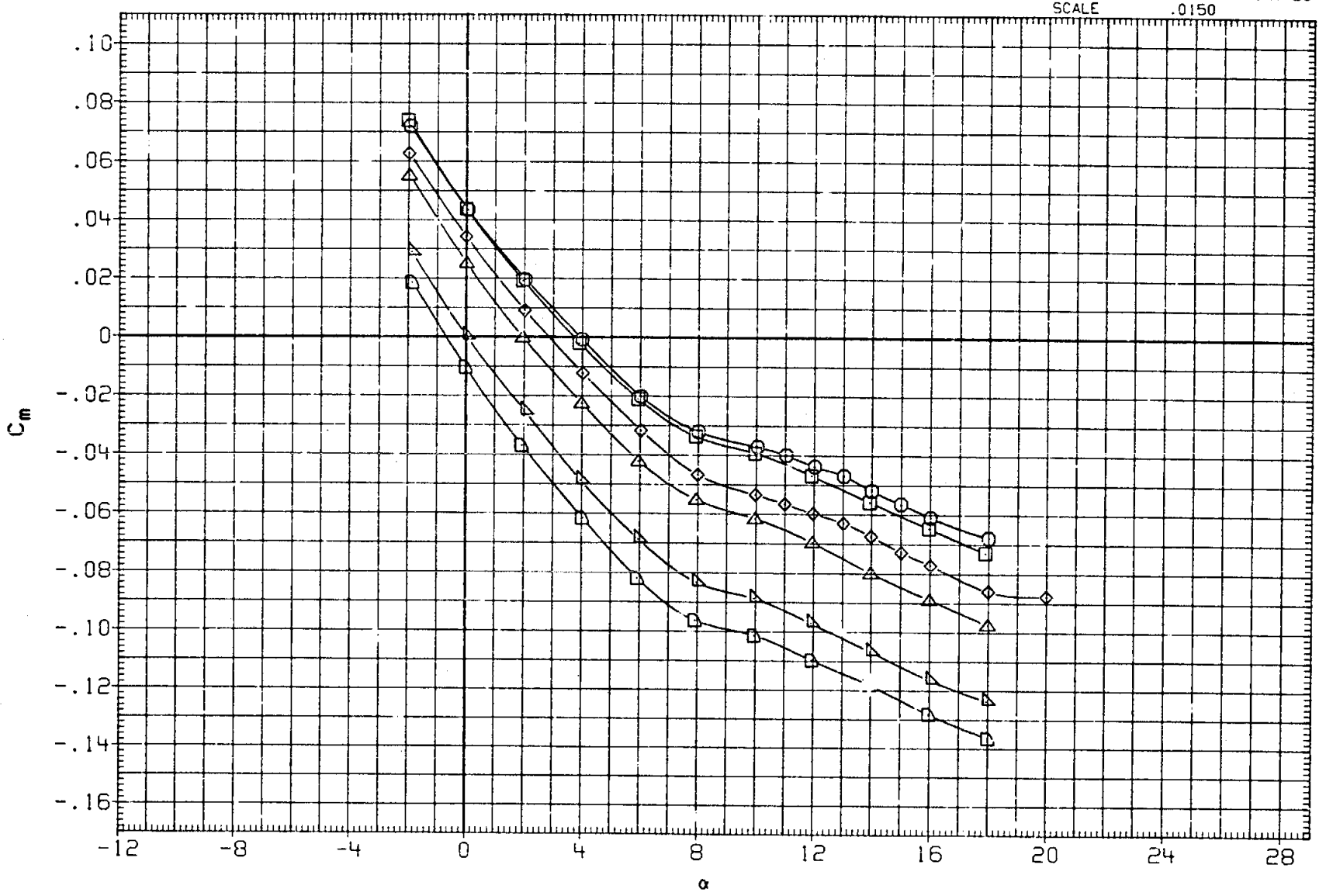

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	▷	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

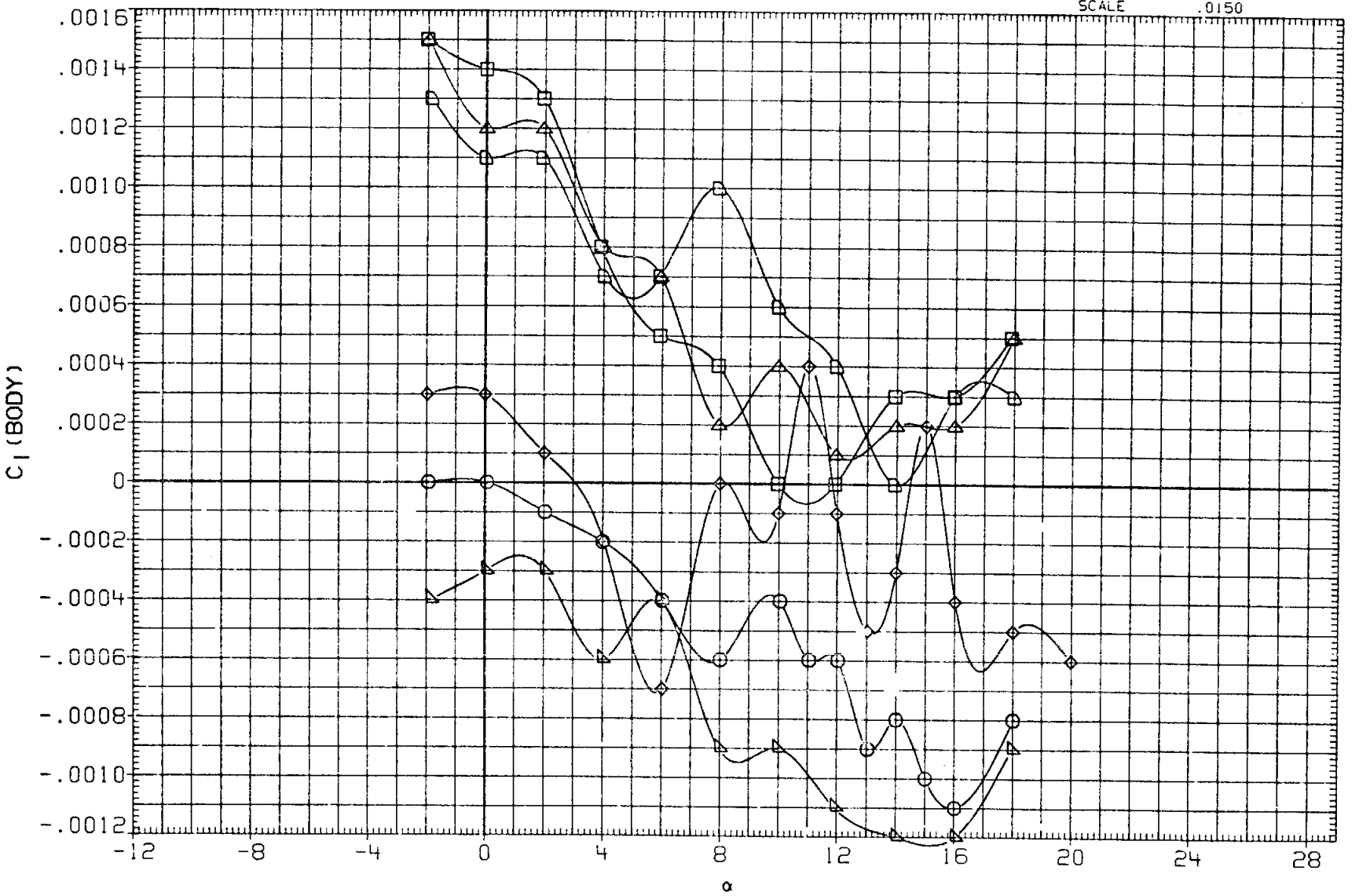

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B209	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	▷	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	▱	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

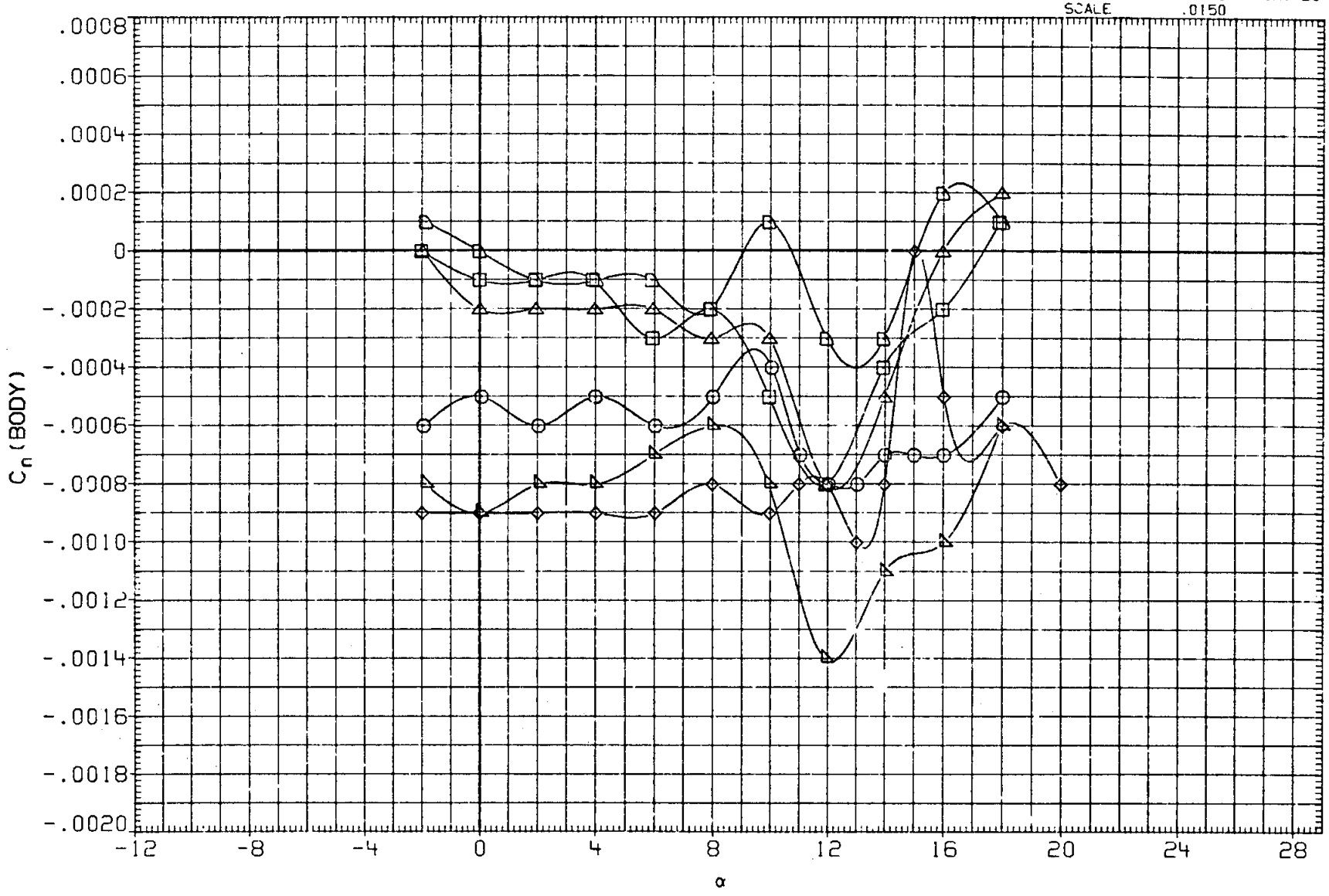

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B141	○	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B208	□	ARC 200-1 11(LA77) OV101	25.000	-6.000	.000	.000
R2B001	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B200	△	ARC 200-1 11(LA77) OV101	25.000	6.000	.000	.000
R2B155	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B192	◻	ARC 200-1 11(LA77) OV101	25.000	22.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

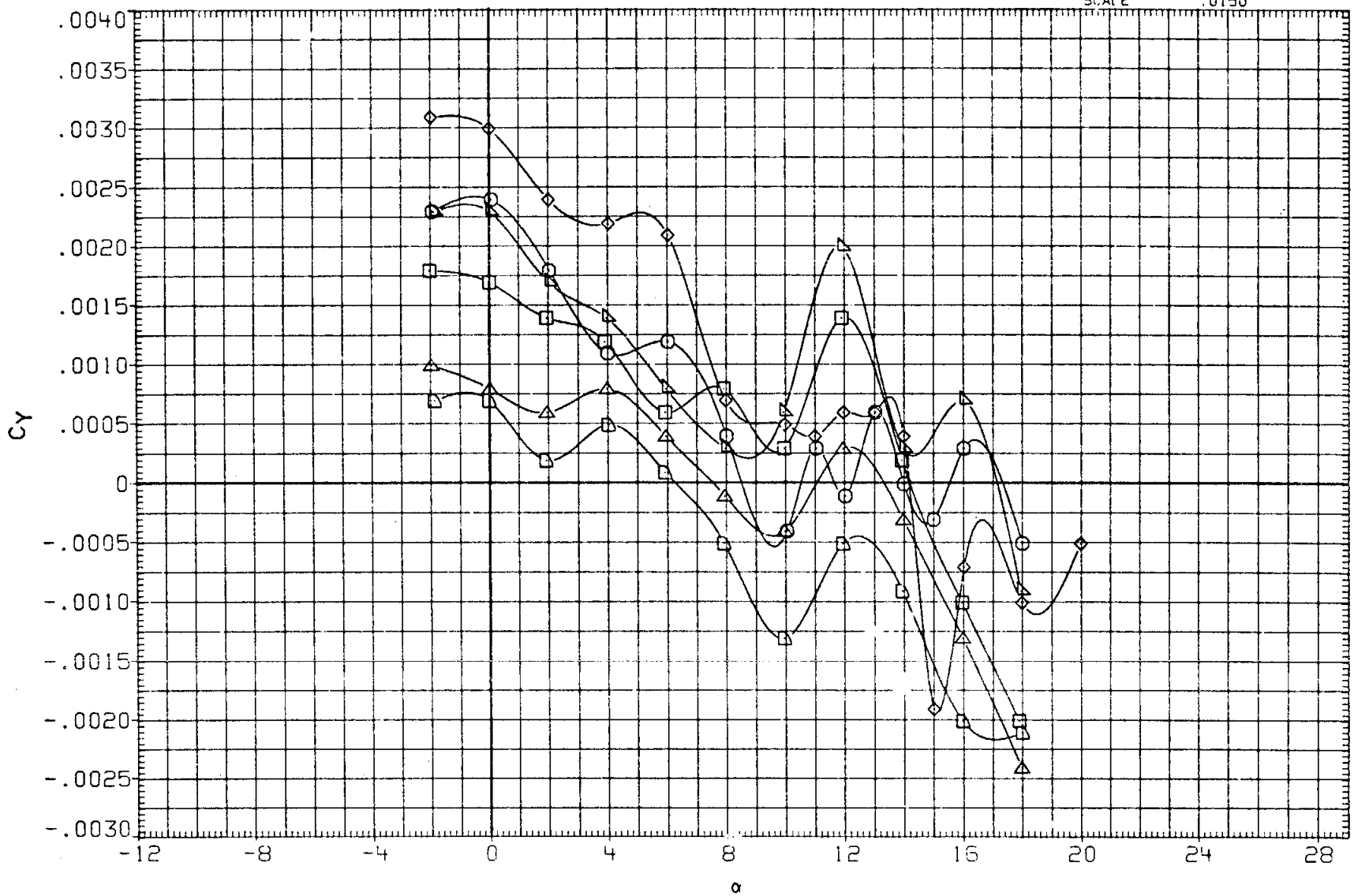

FIG. 6 EFFECT OF BODY FLAP (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	▷	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

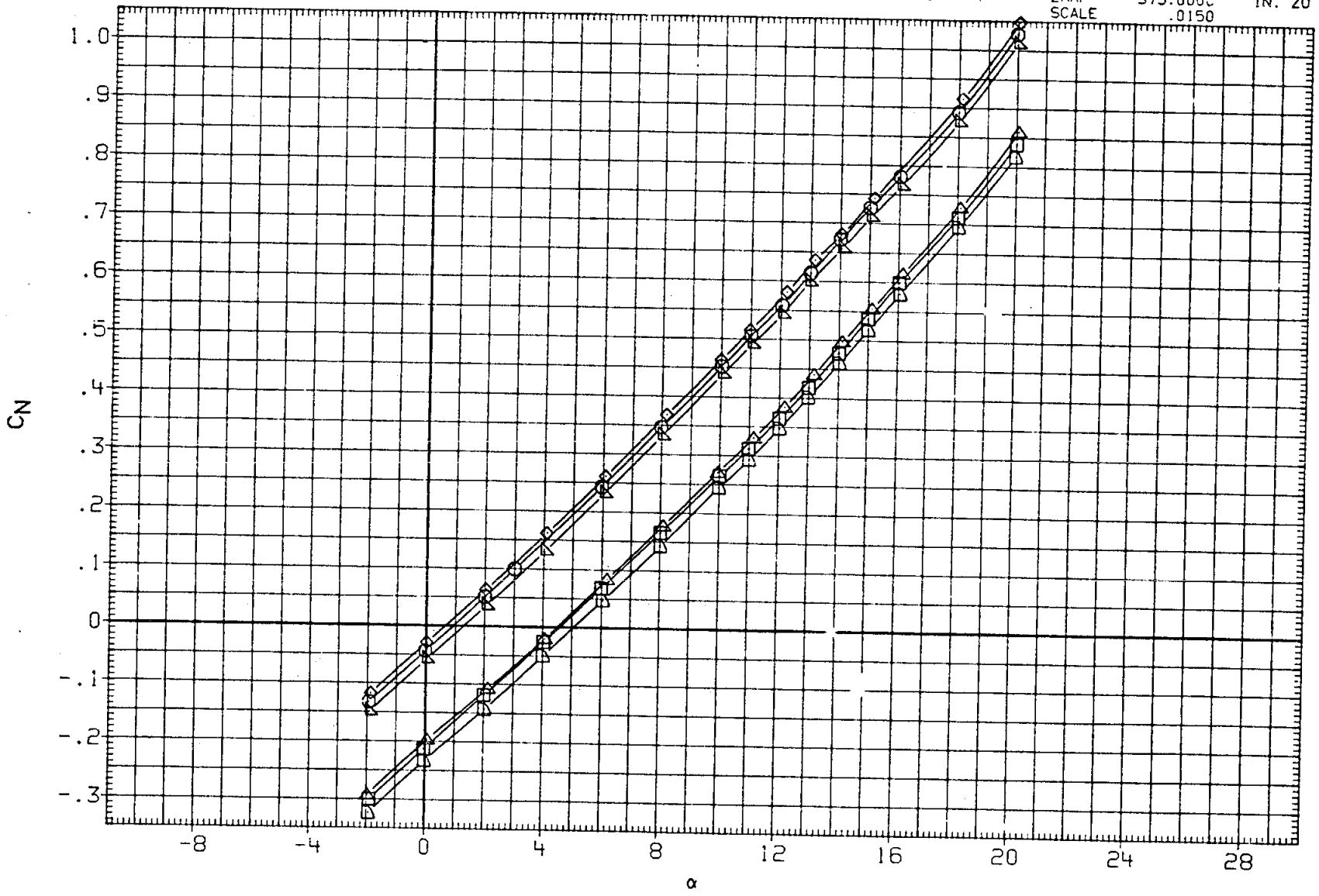

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

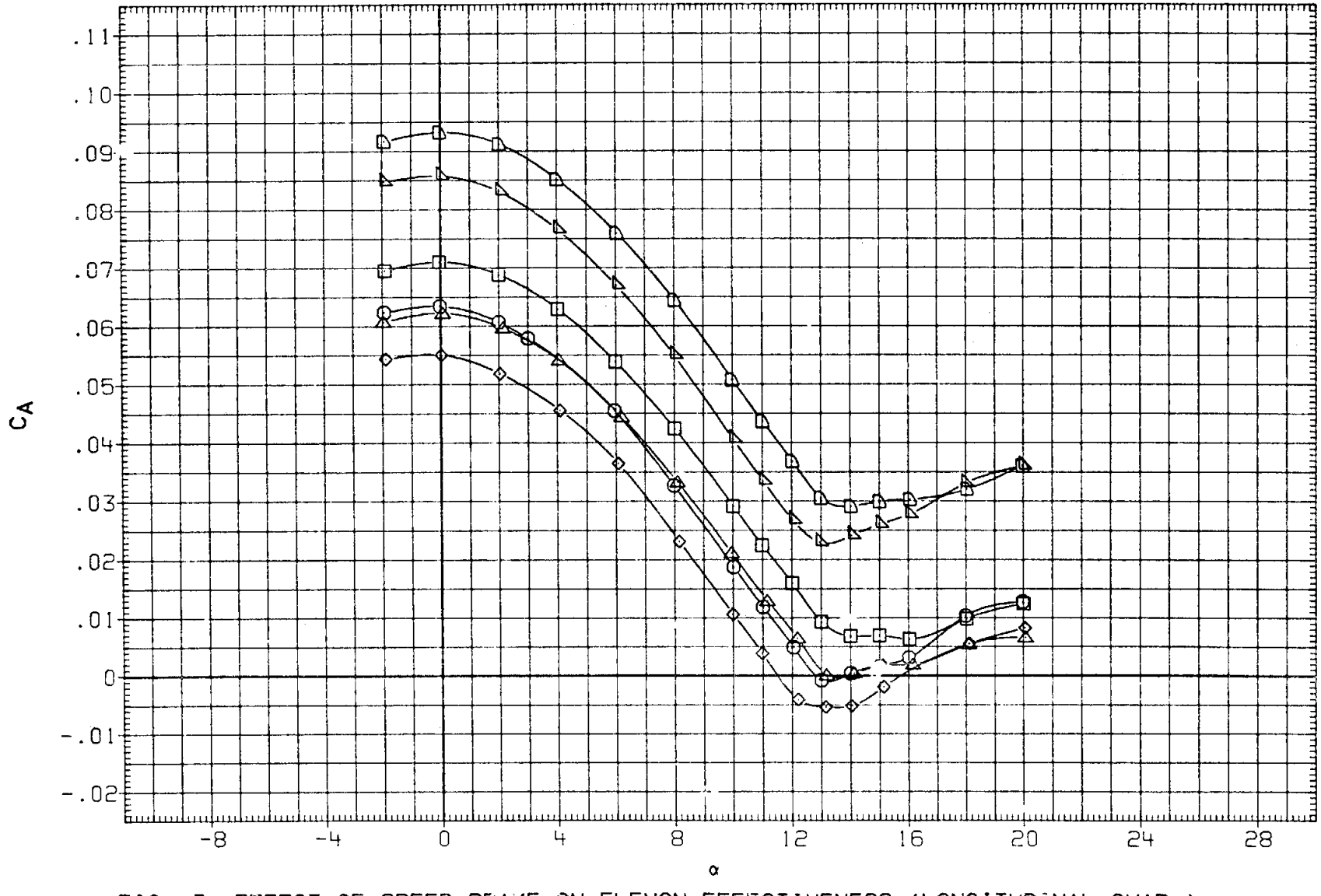

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

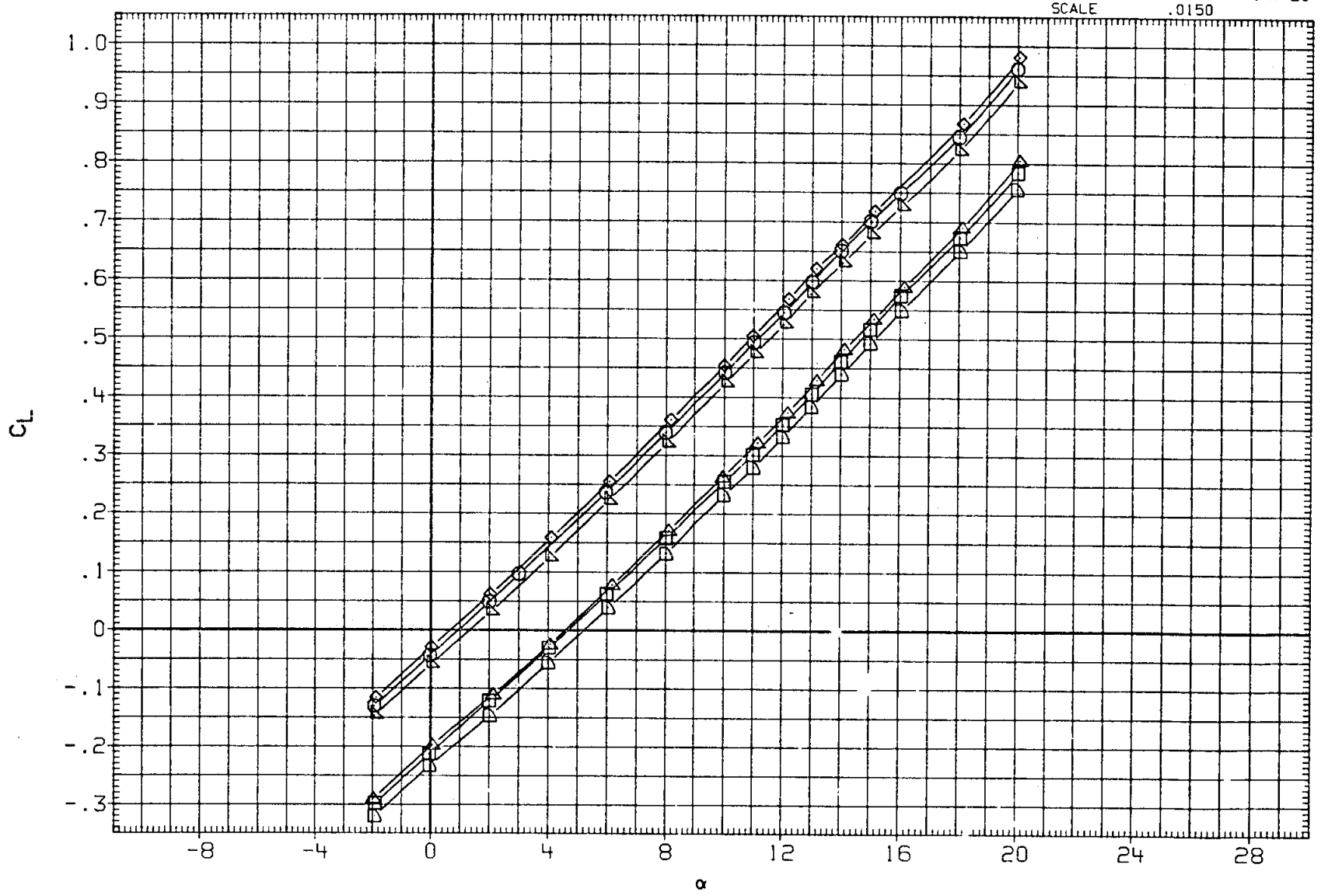

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B018	○	ARC 200-1 11(LA77) OV101
R2B020	□	ARC 200-1 11(LA77) OV101
R2B103	◇	ARC 200-1 11(LA77) OV101
R2B104	△	ARC 200-1 11(LA77) OV101
R2B080	◁	ARC 200-1 11(LA77) OV101
R2B081	D	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
25.000	.000	.000	.000
25.000	.000	.000	-10.000
.000	.000	.000	.000
.000	.000	.000	-10.000
55.000	.000	.000	.000
55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

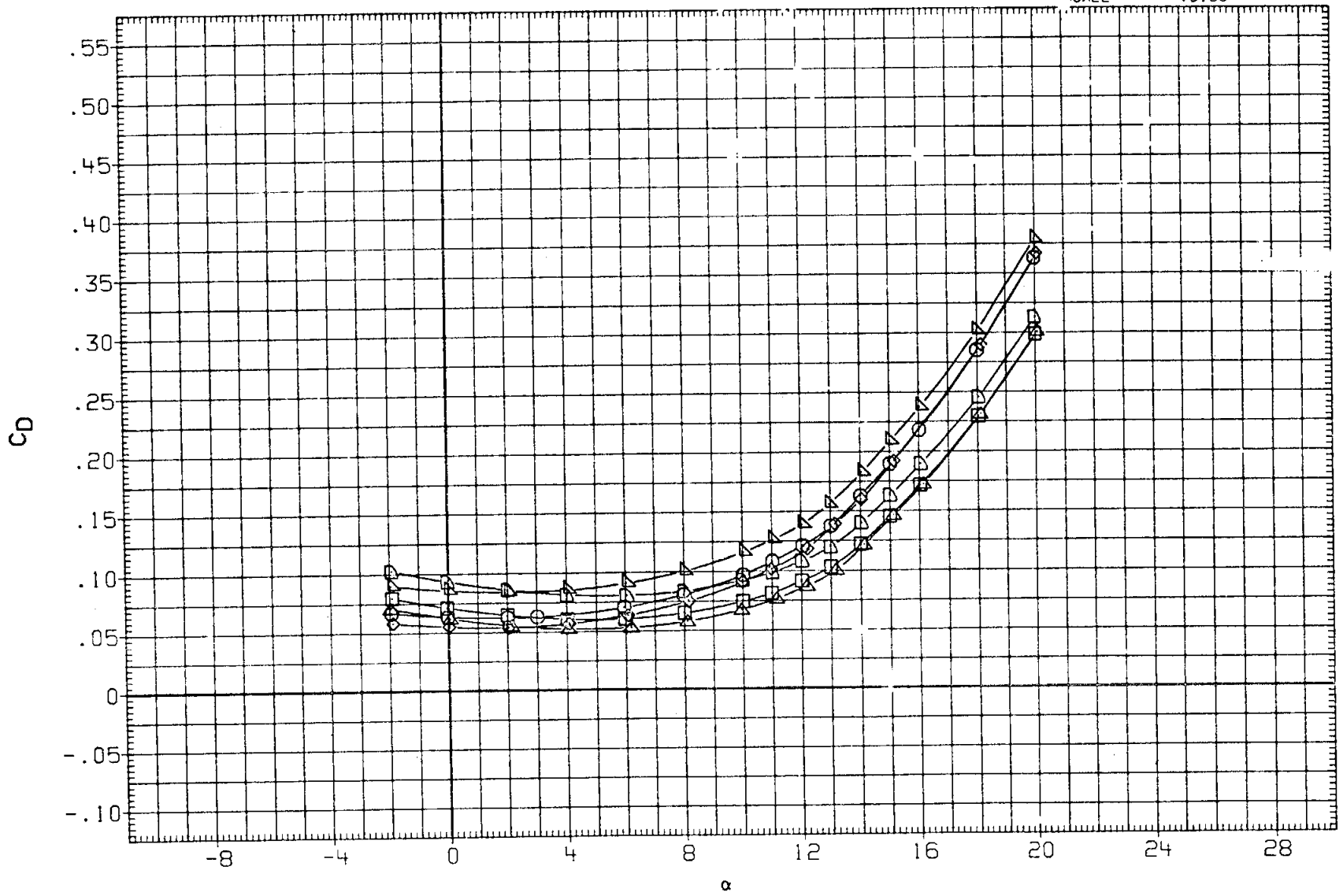

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

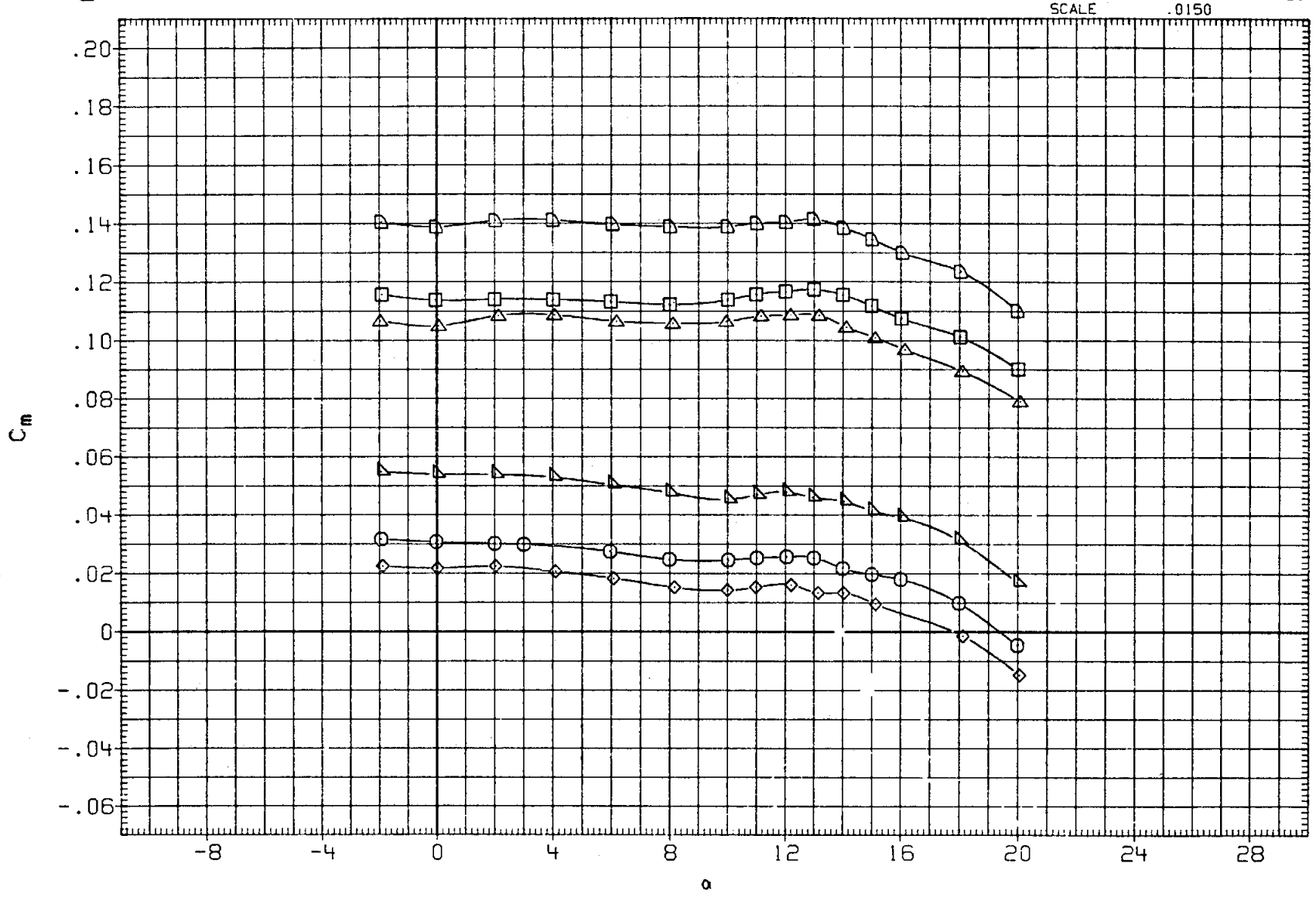

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

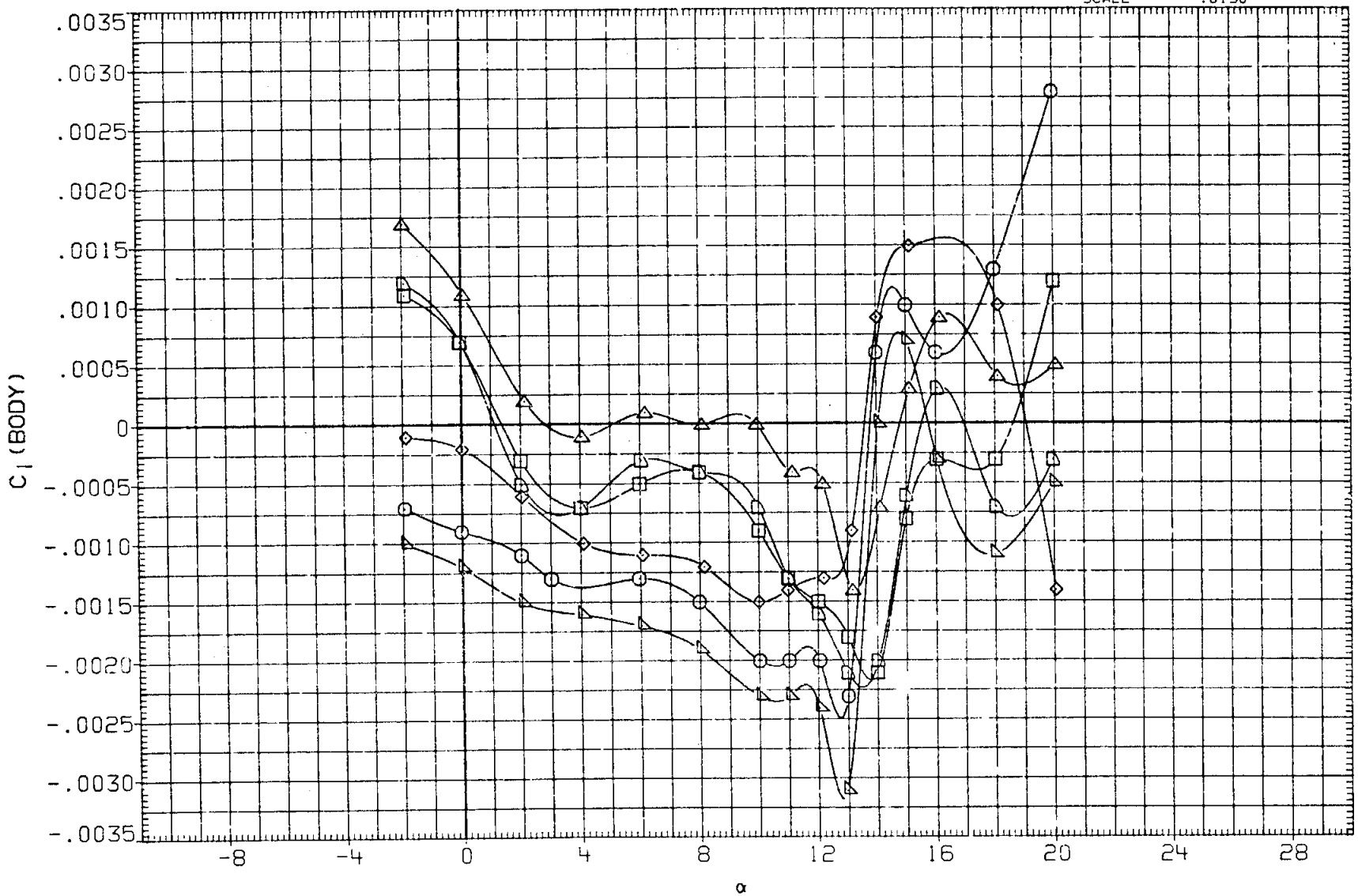

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R28080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R28081	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

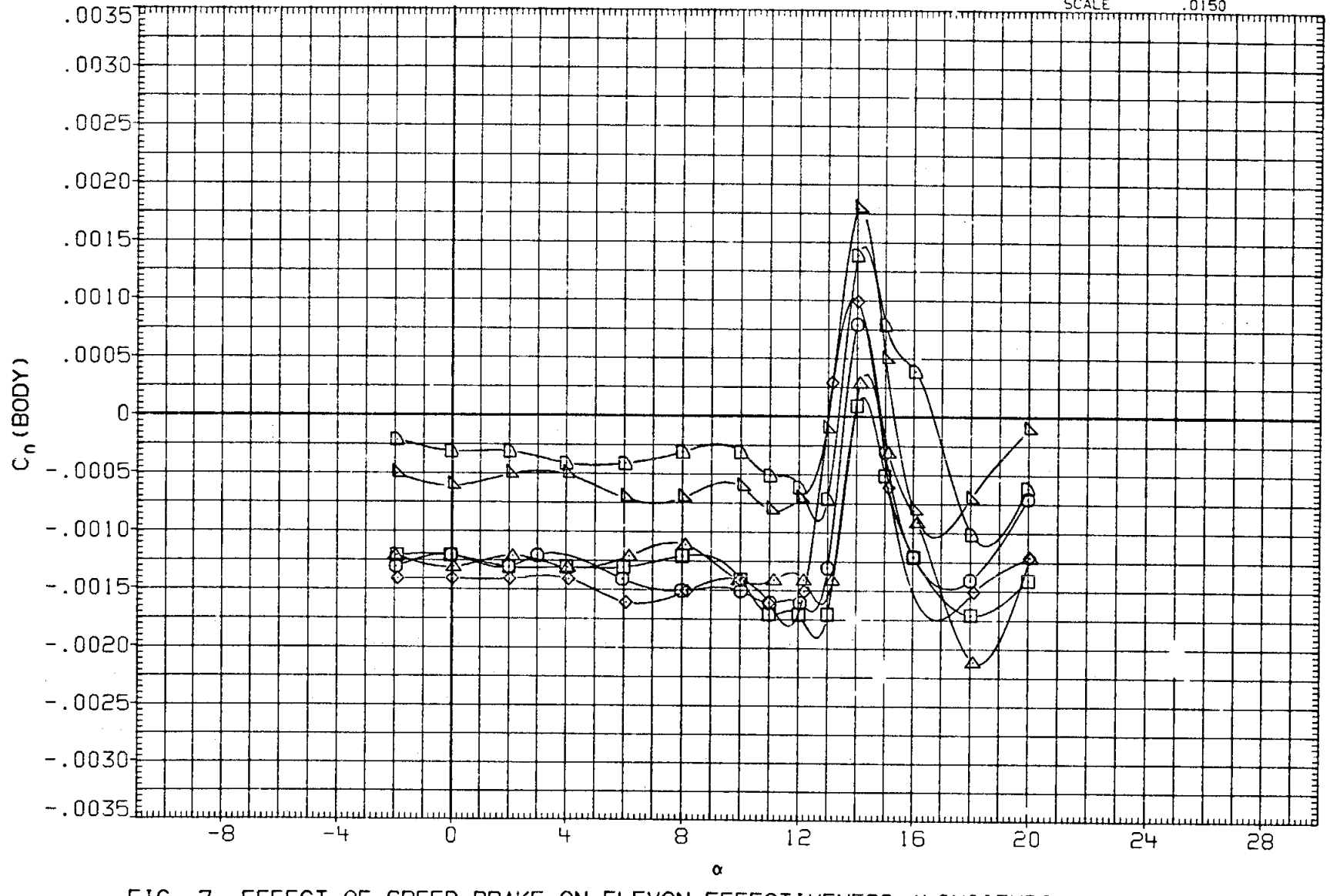

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B103	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◗	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

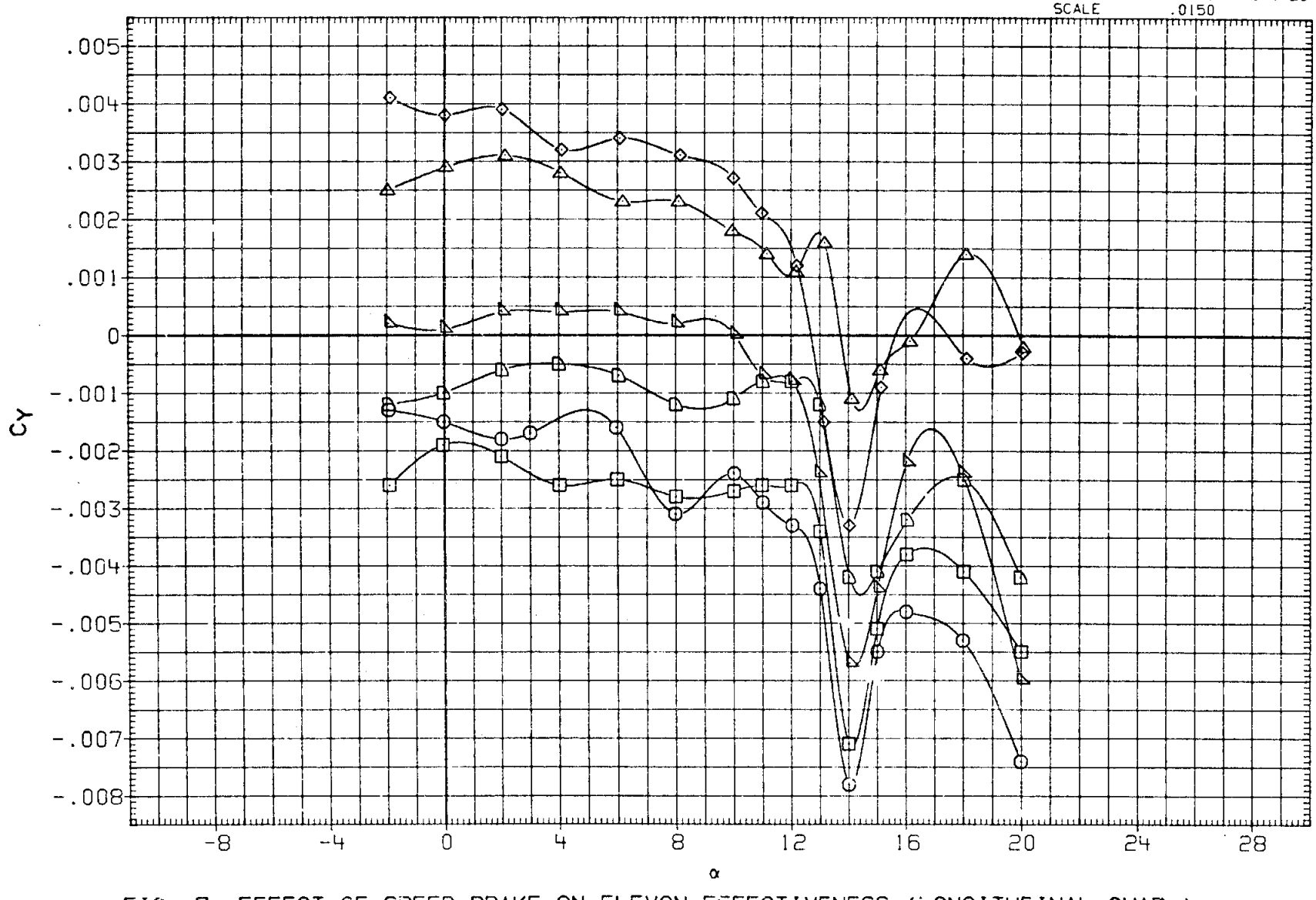

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

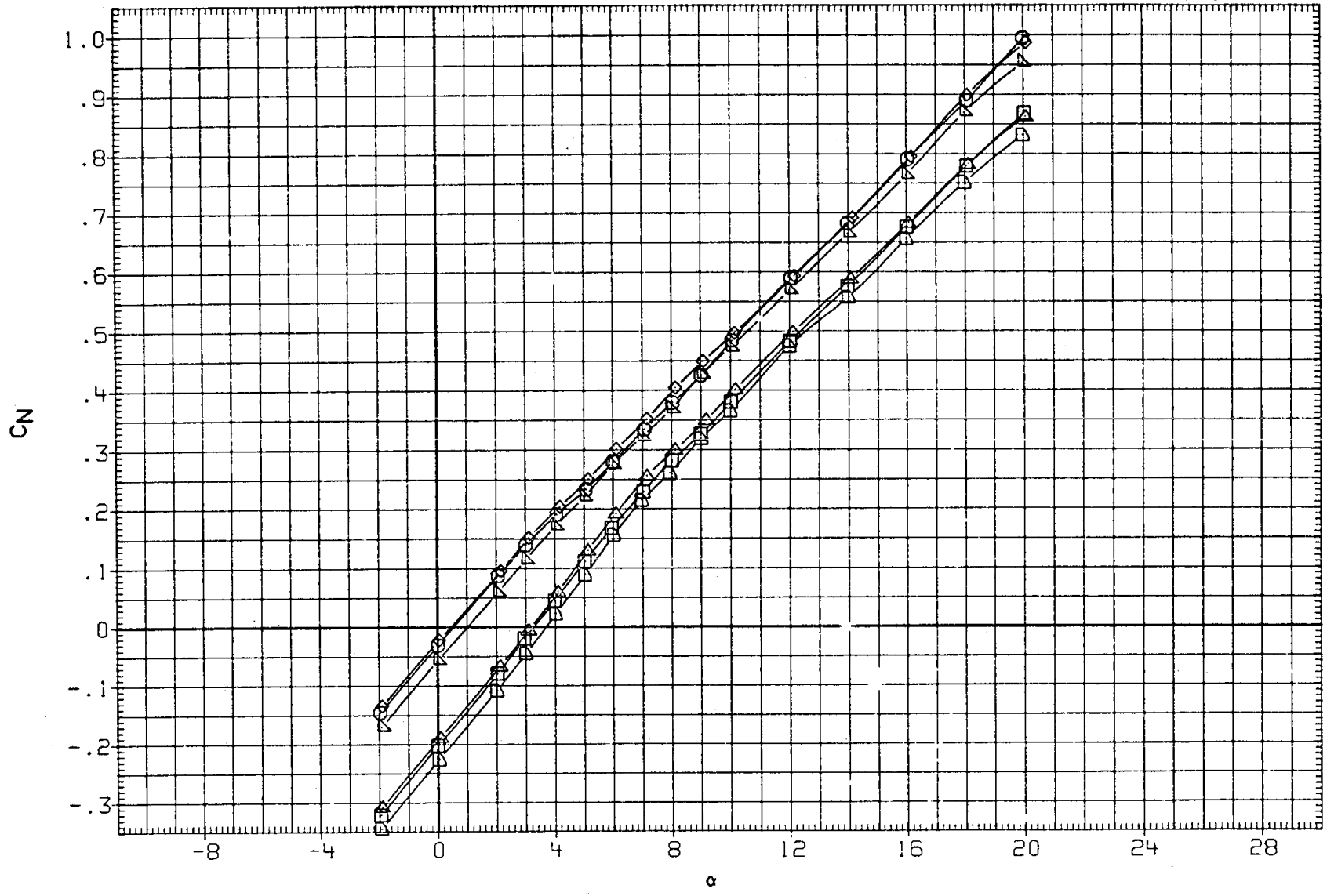

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

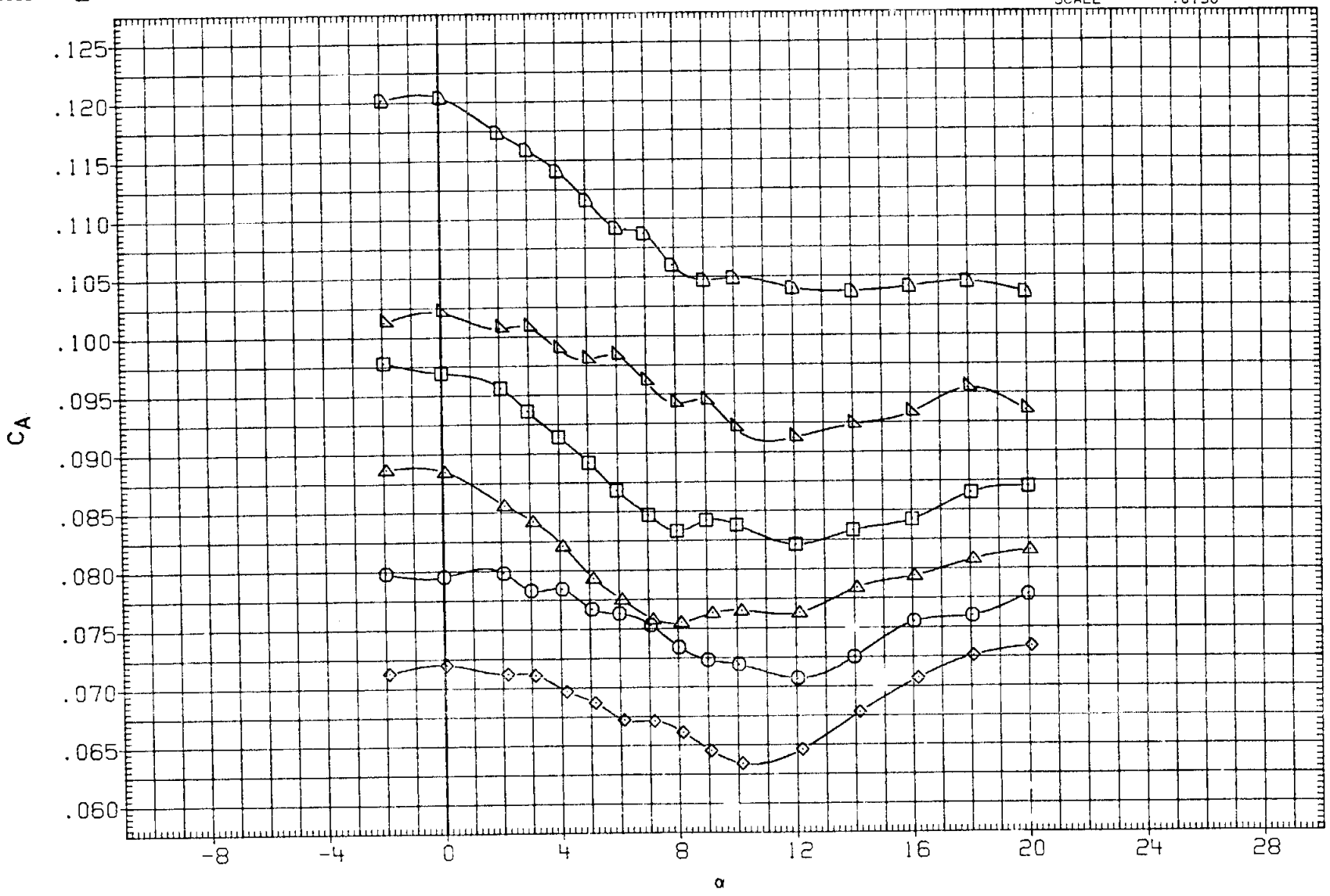

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

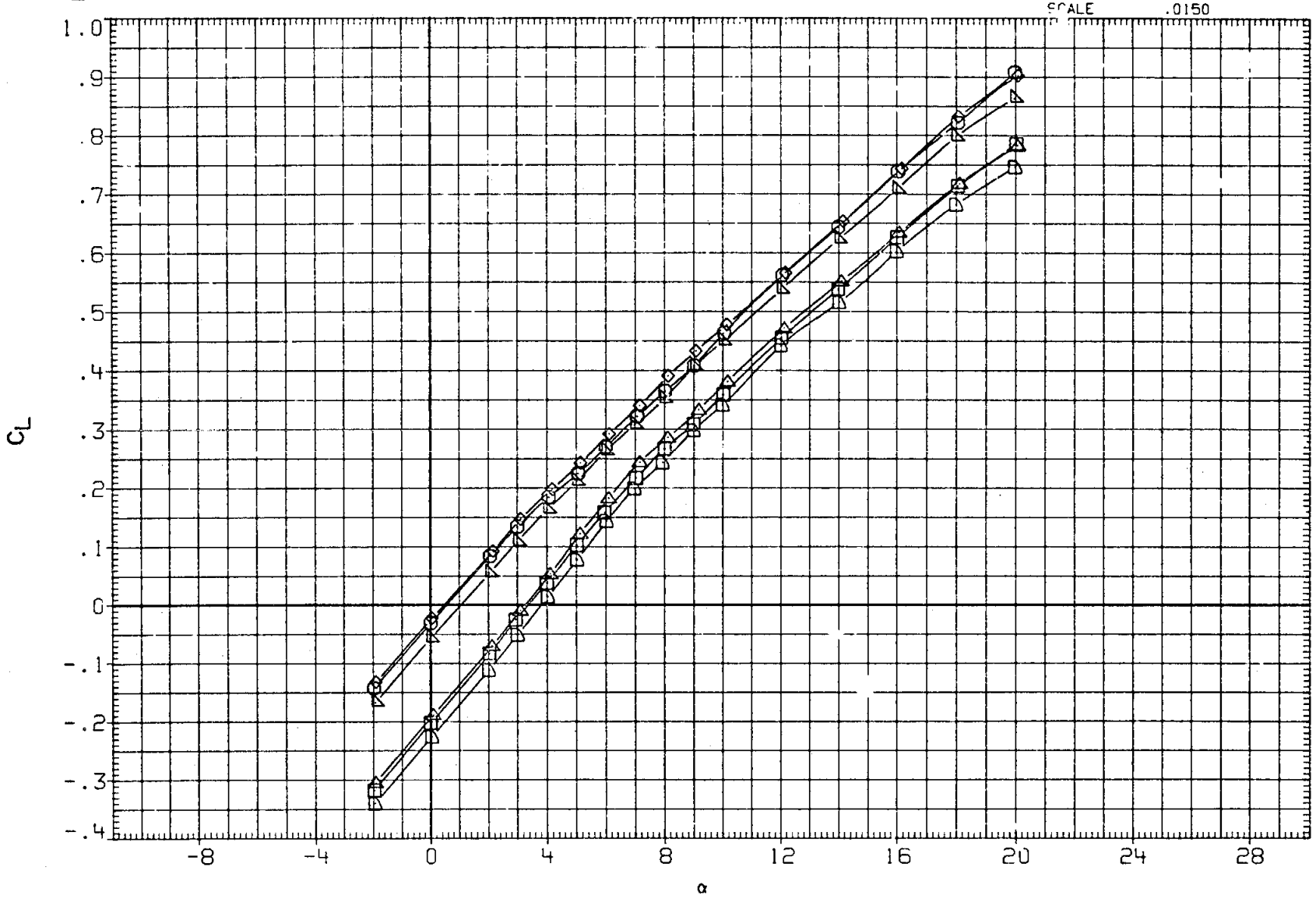

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	▷	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B005	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

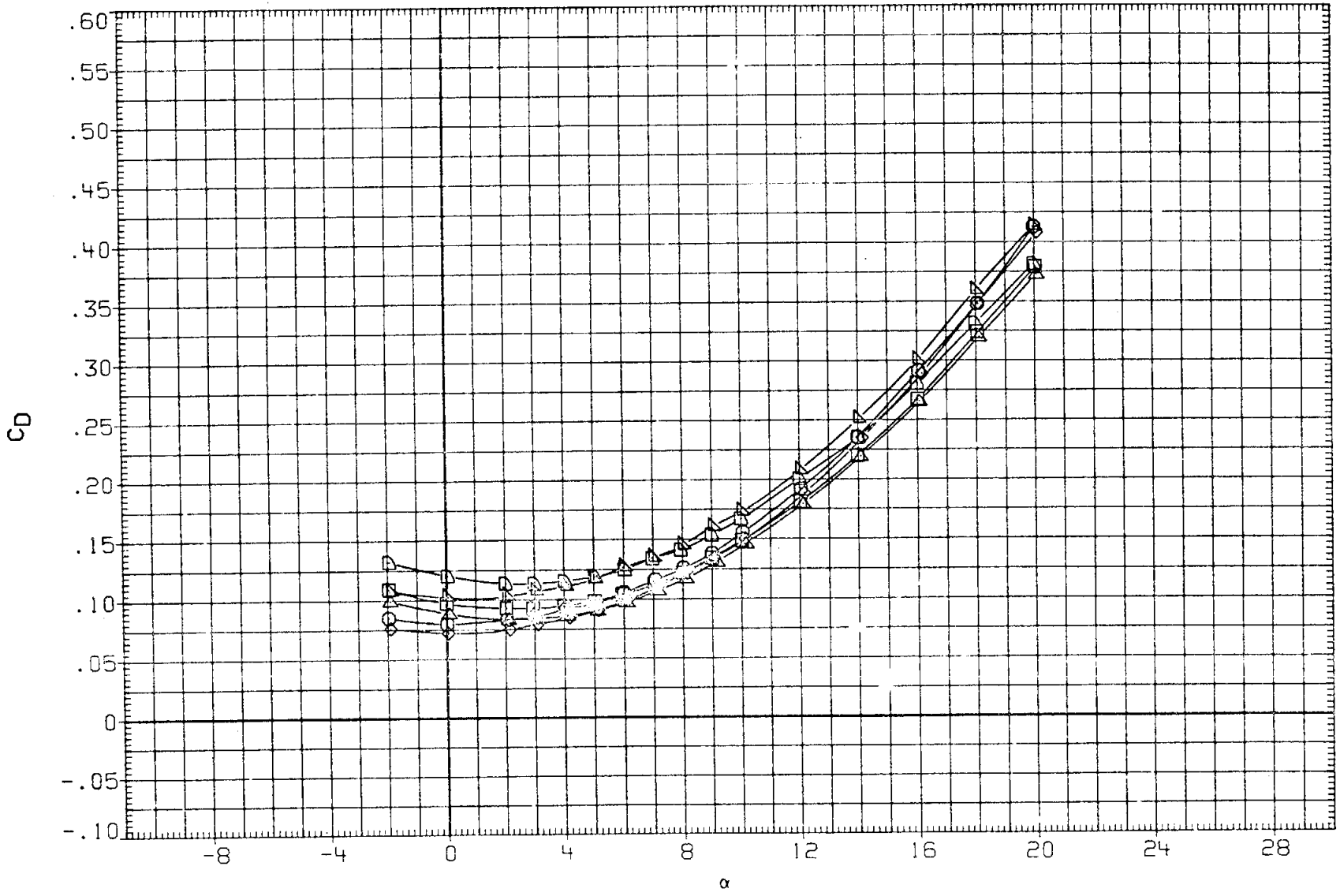

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

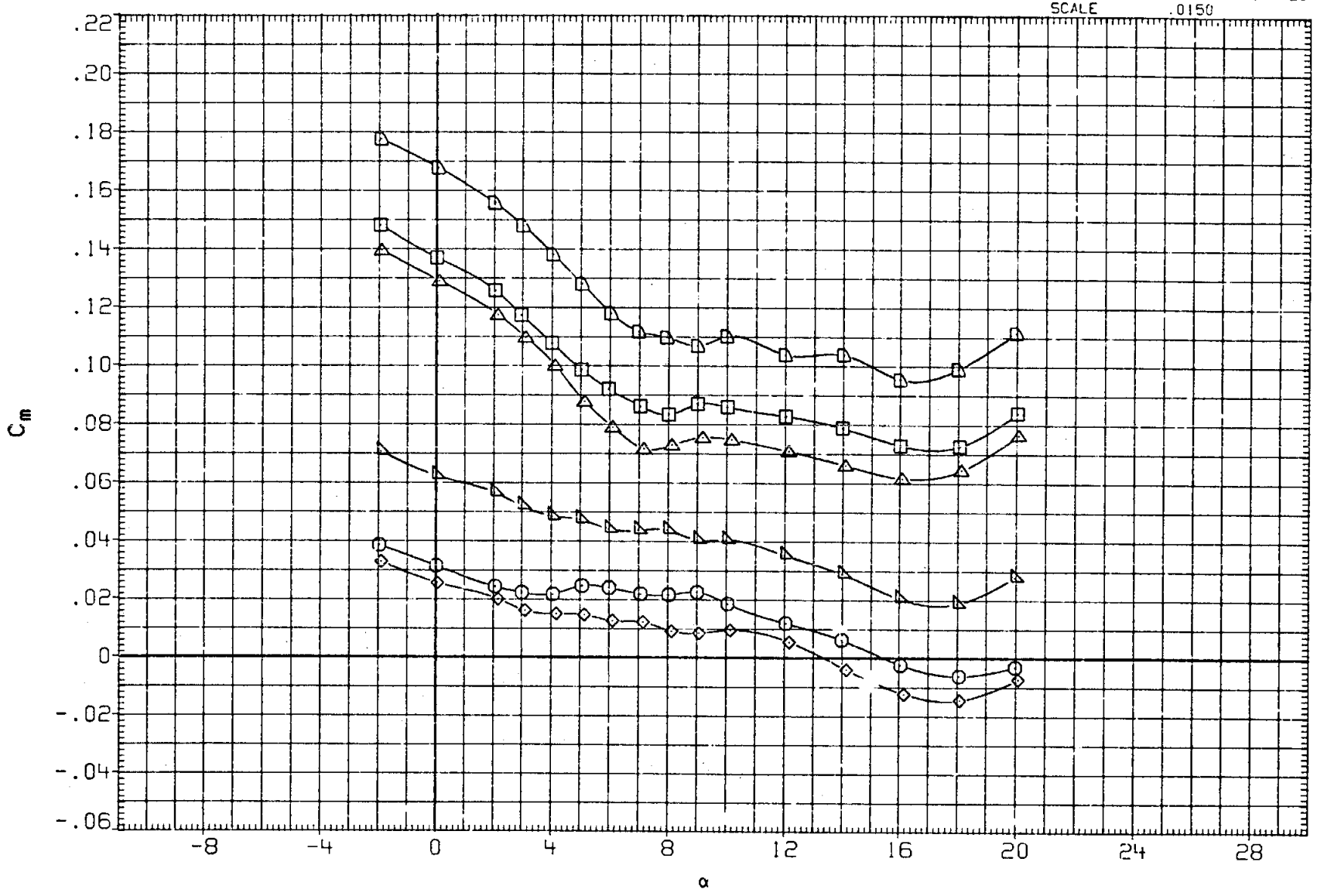

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

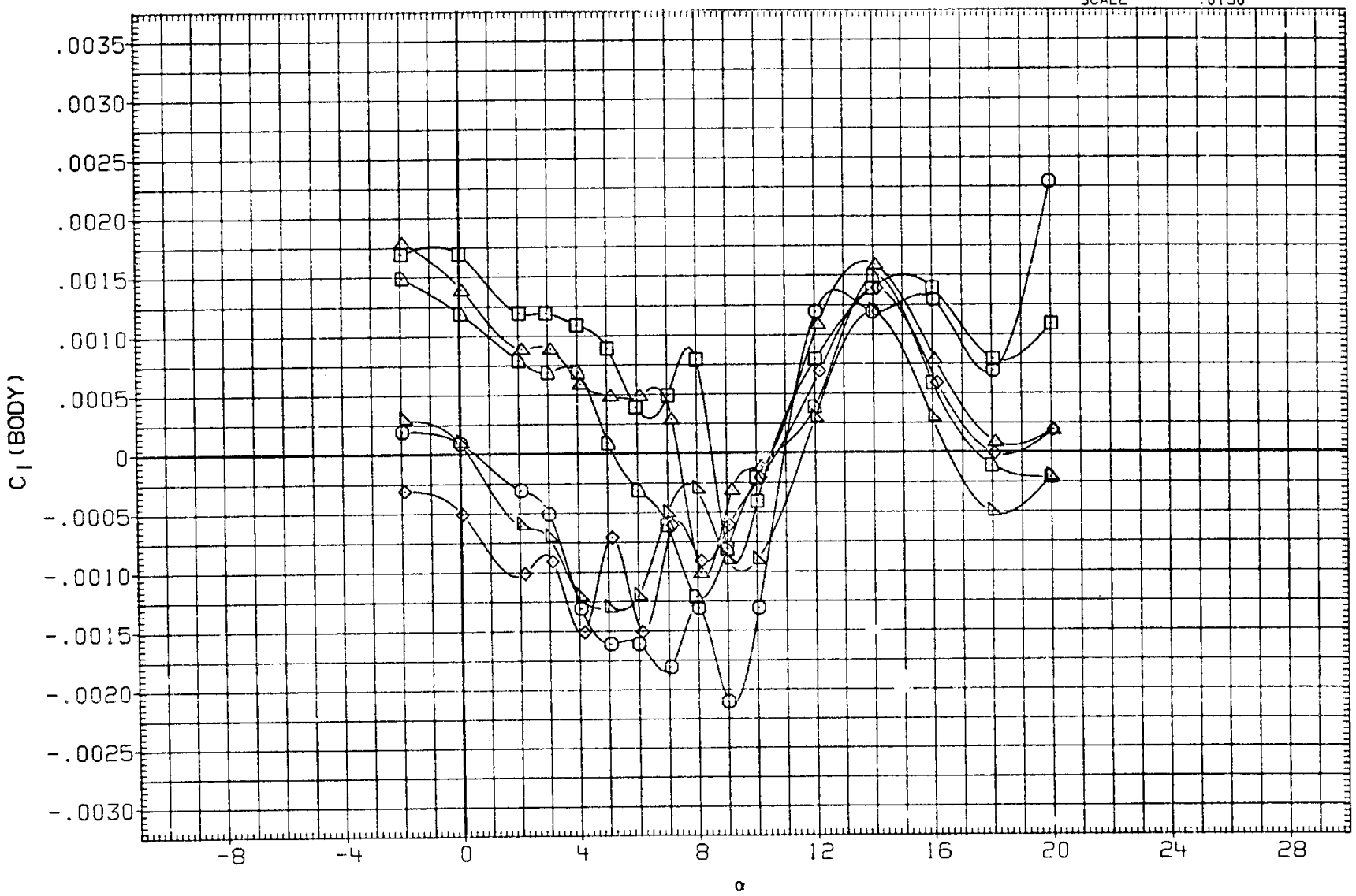

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

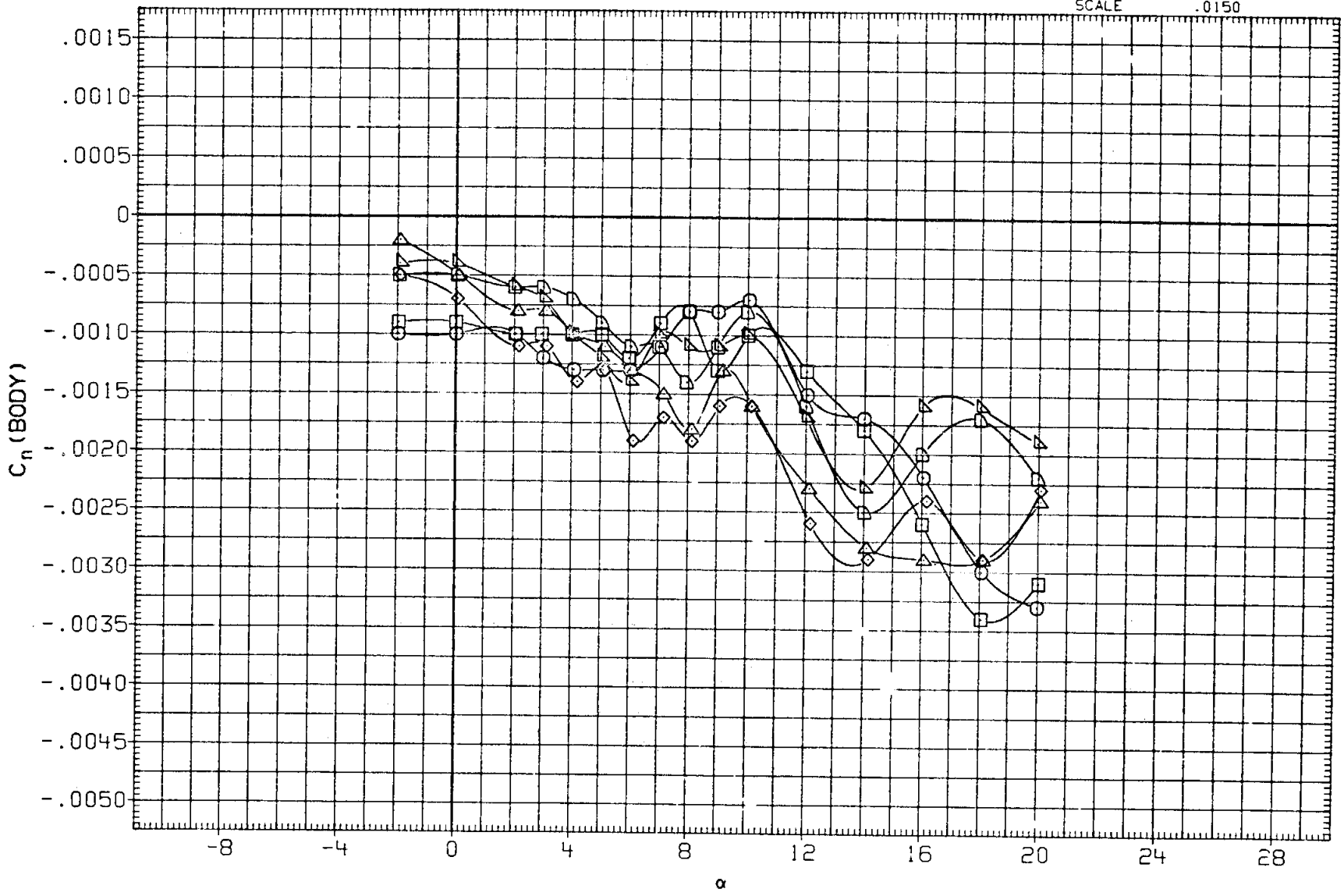

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◗	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

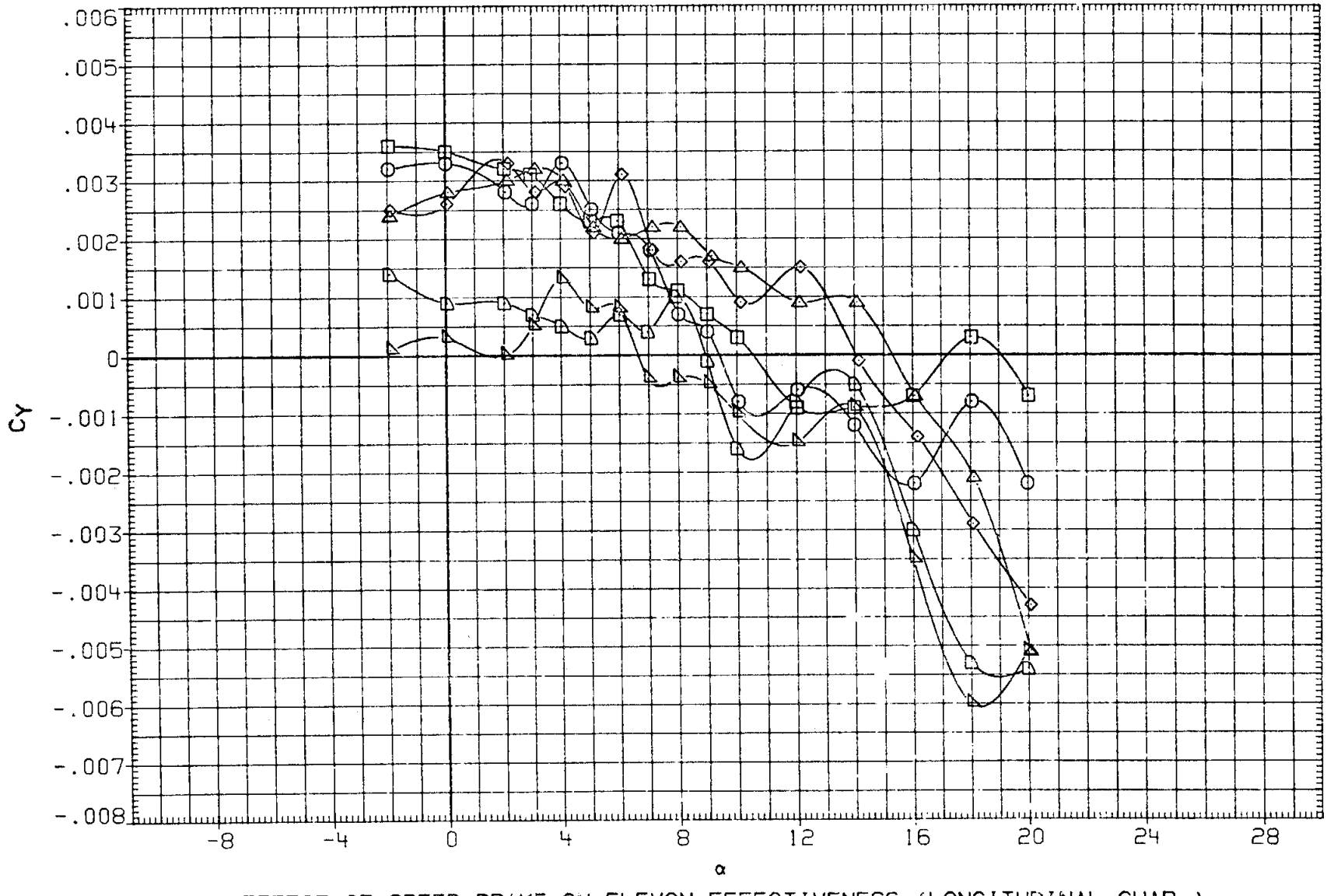

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

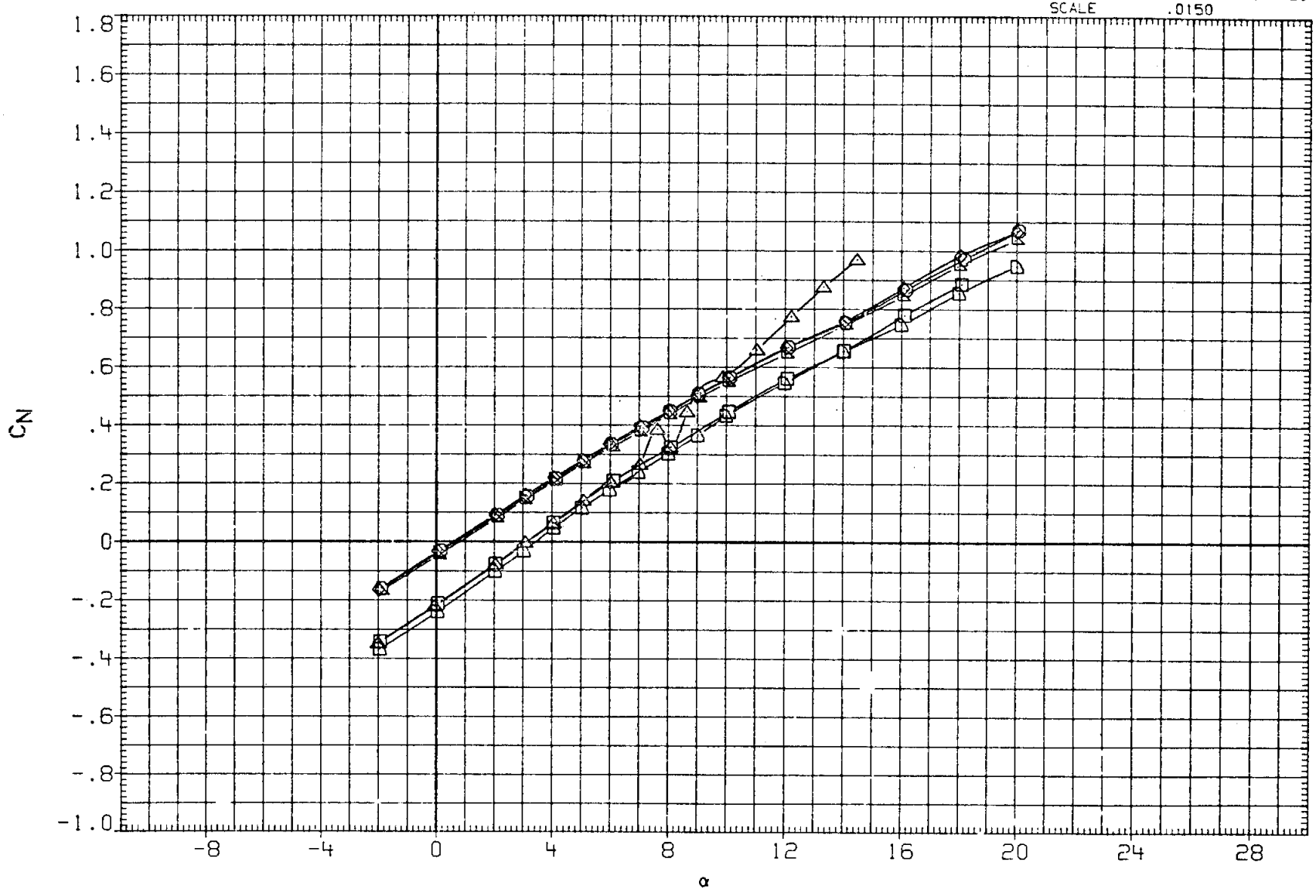

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

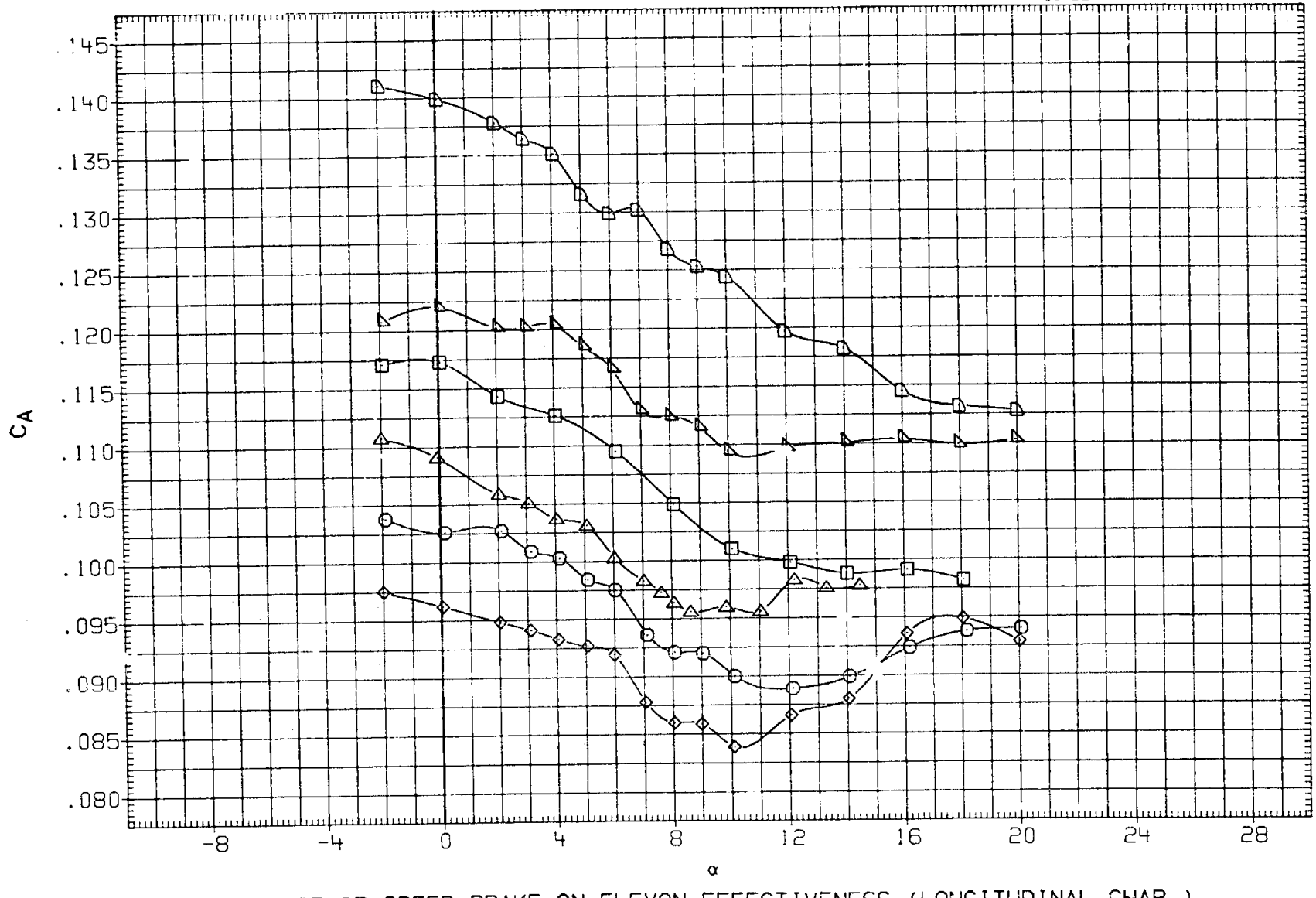

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

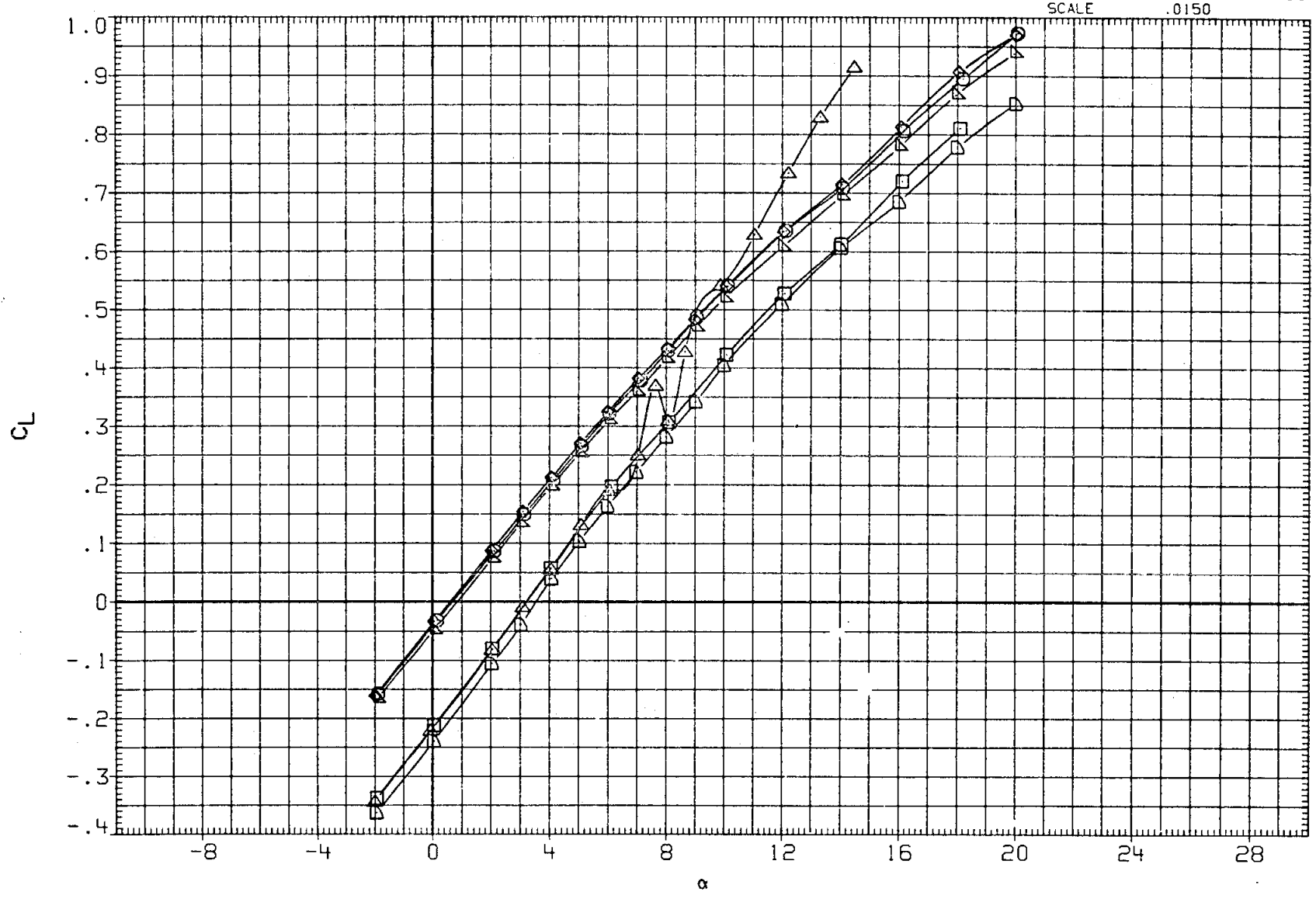

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

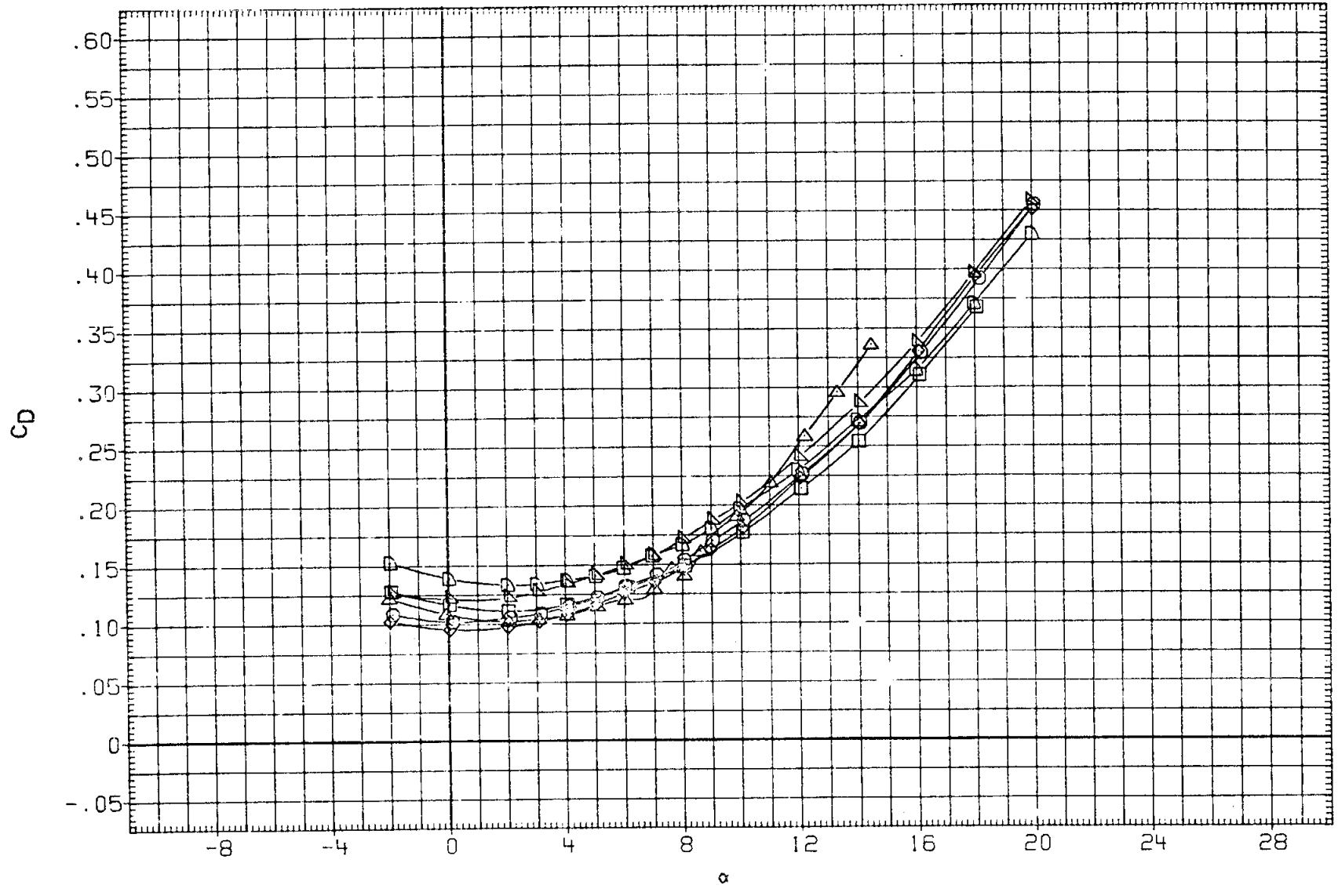

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

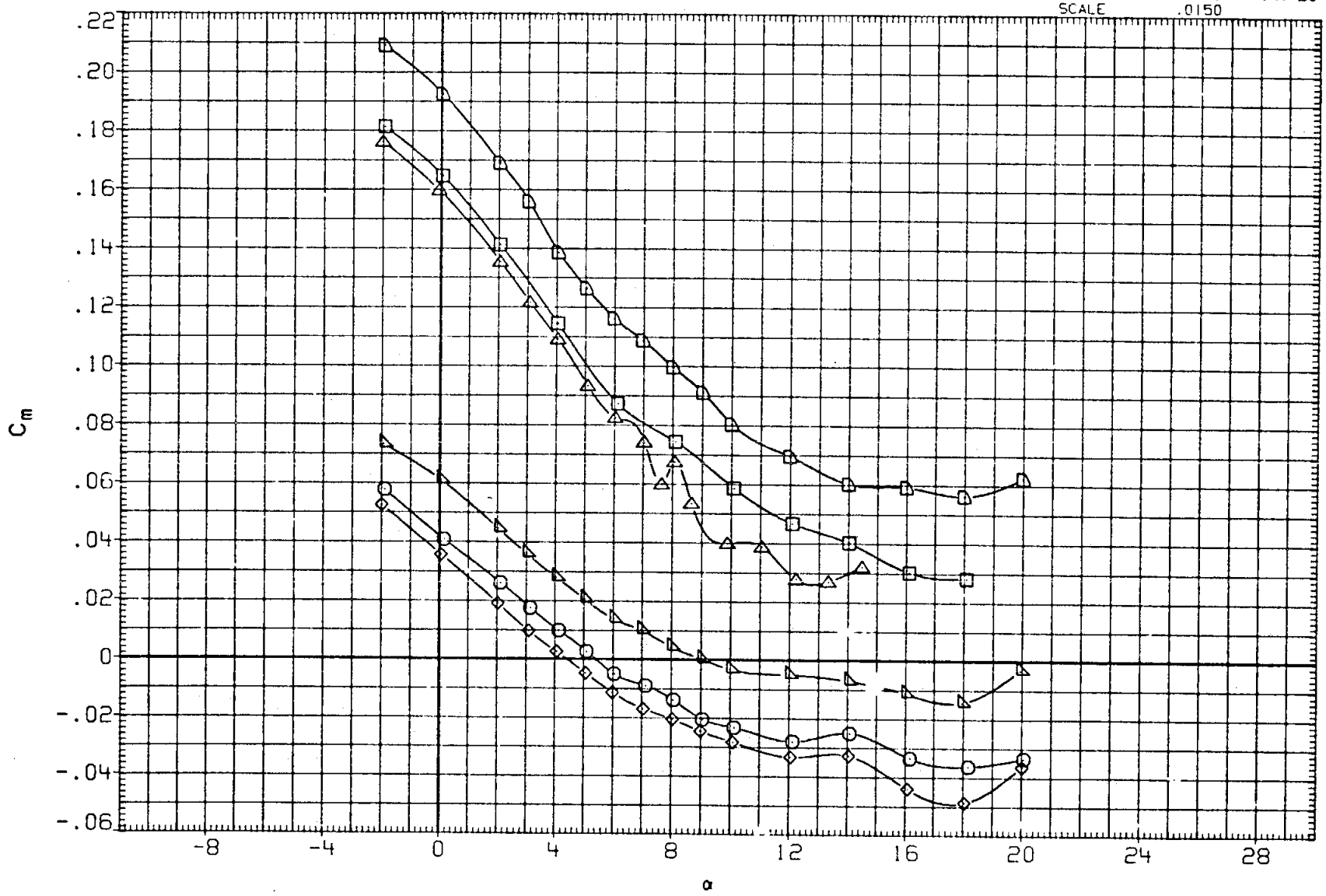

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

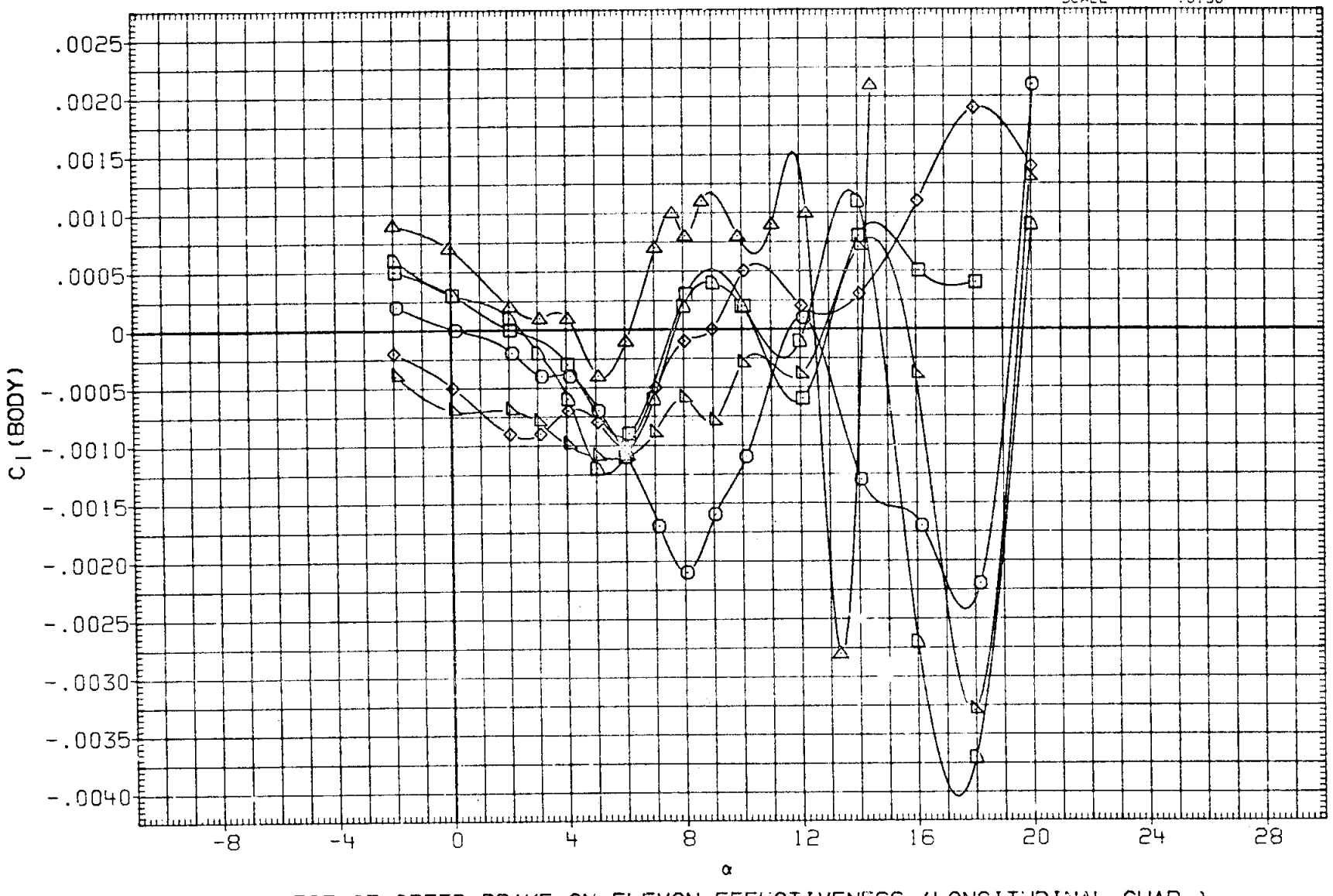

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

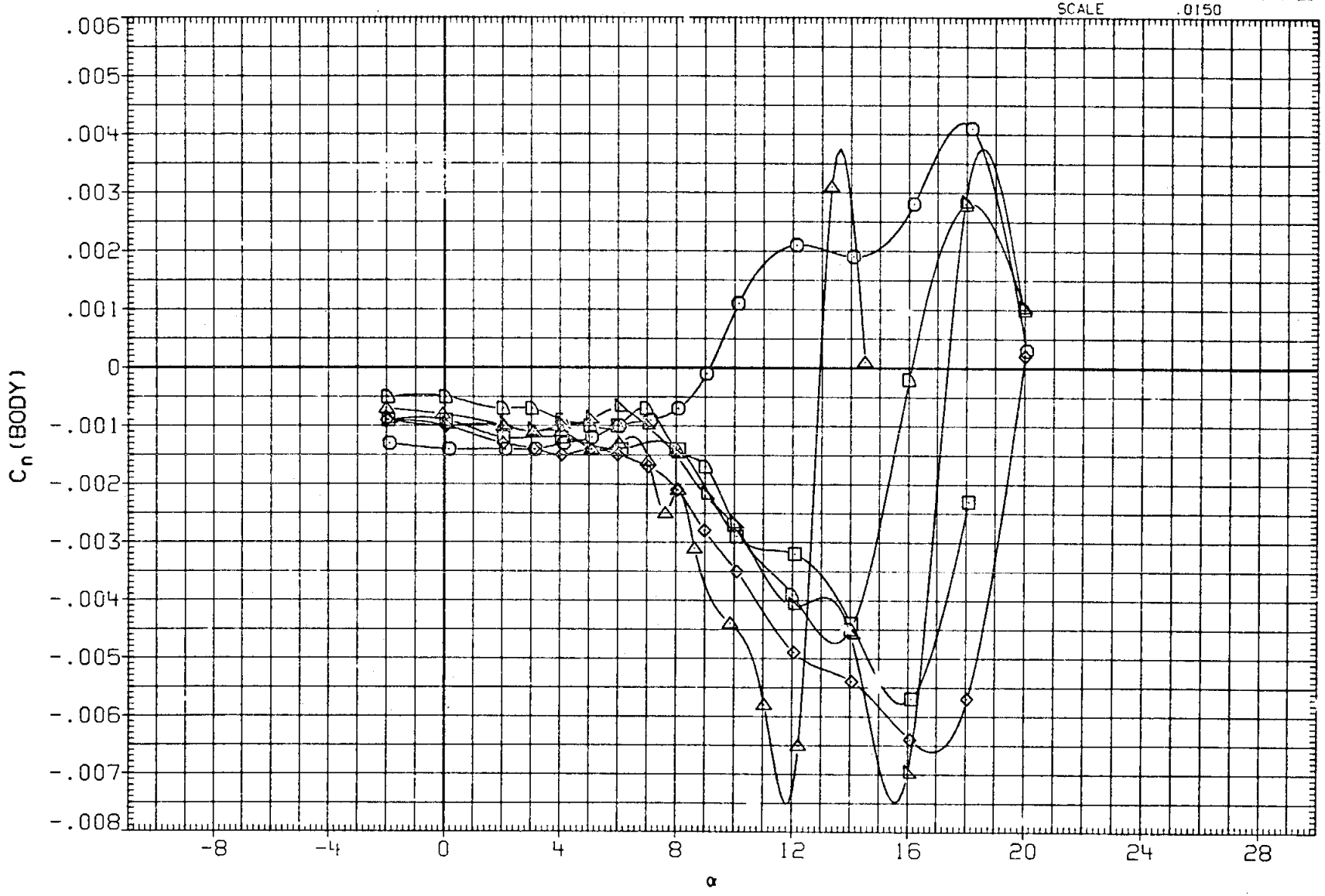

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

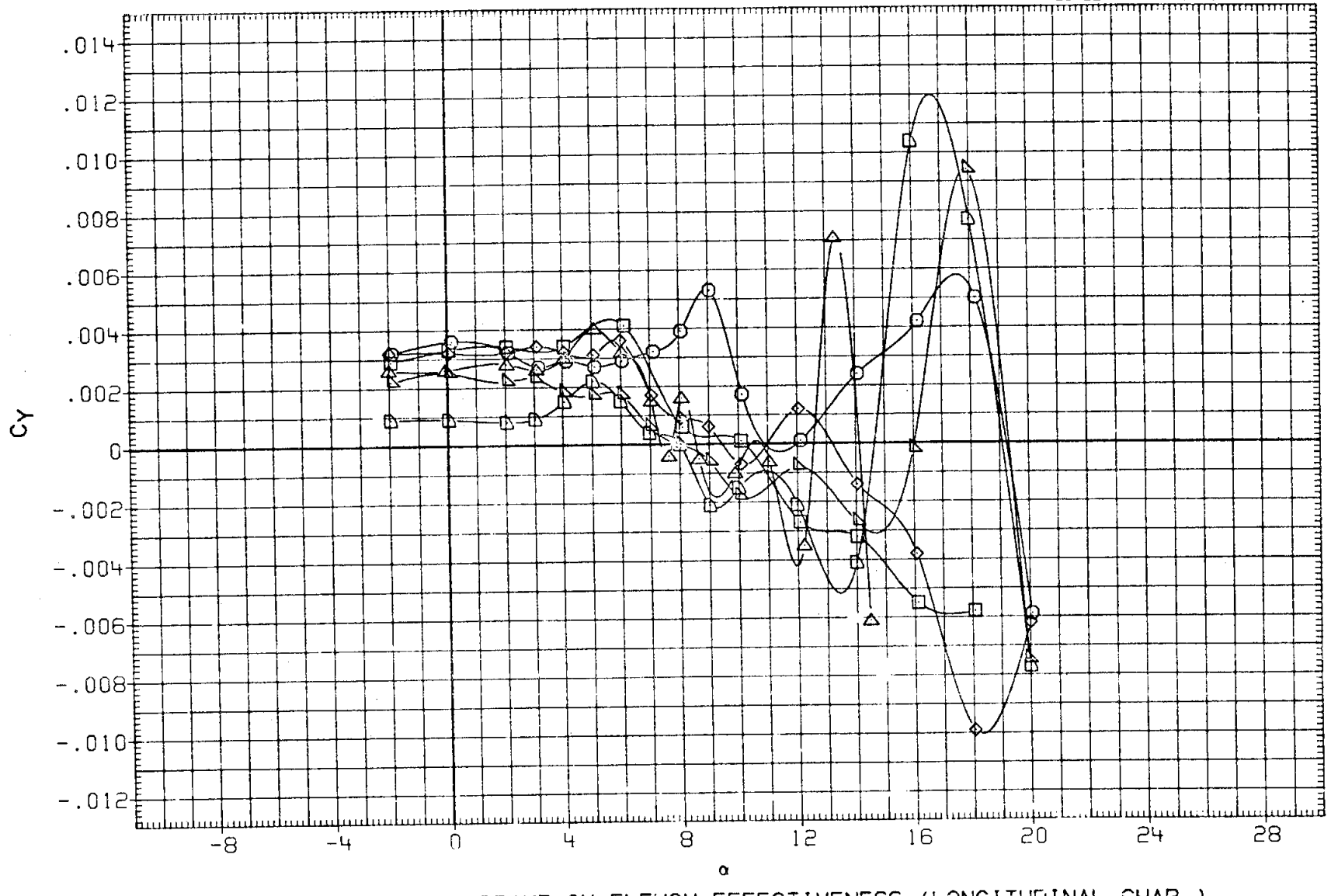

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

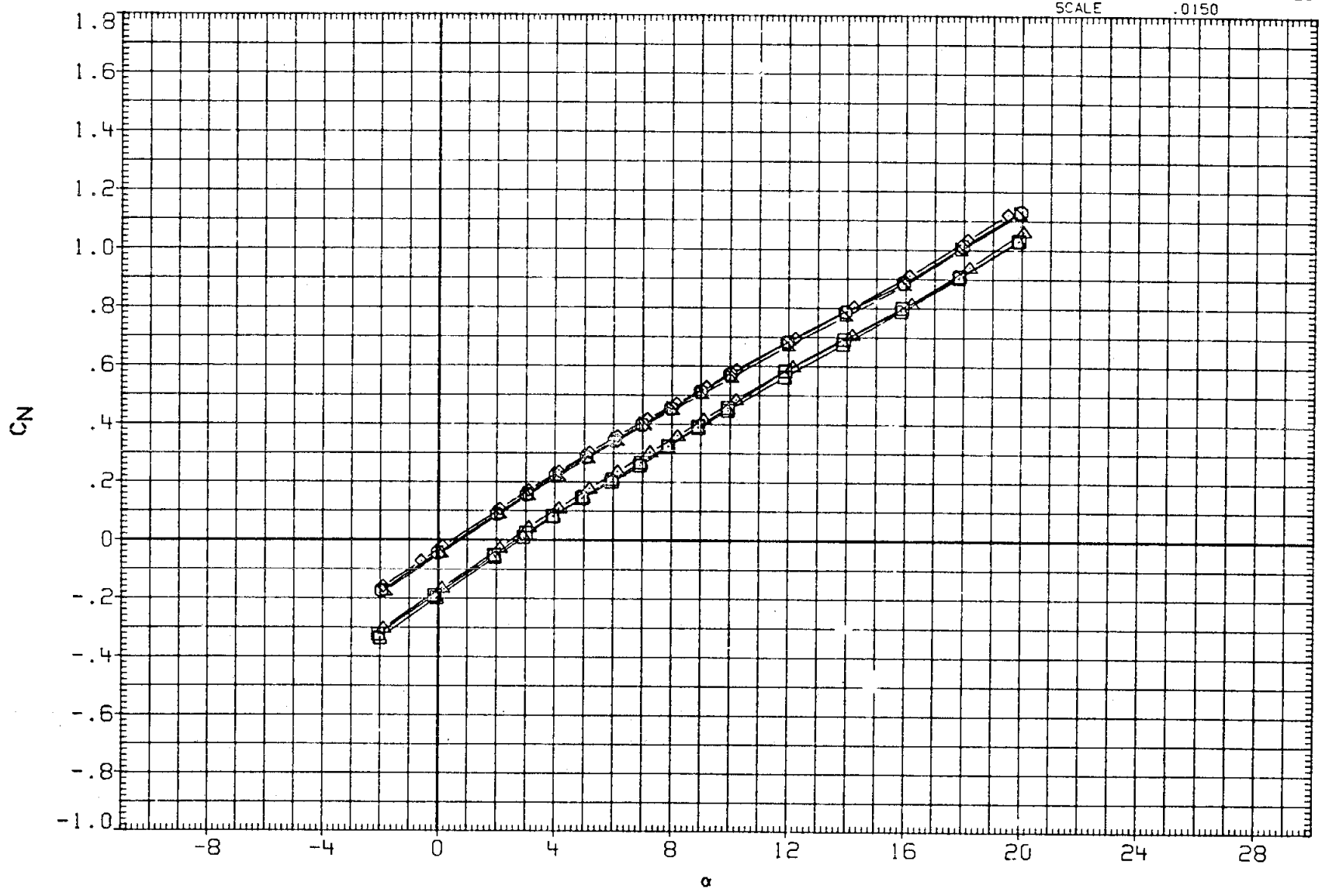

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

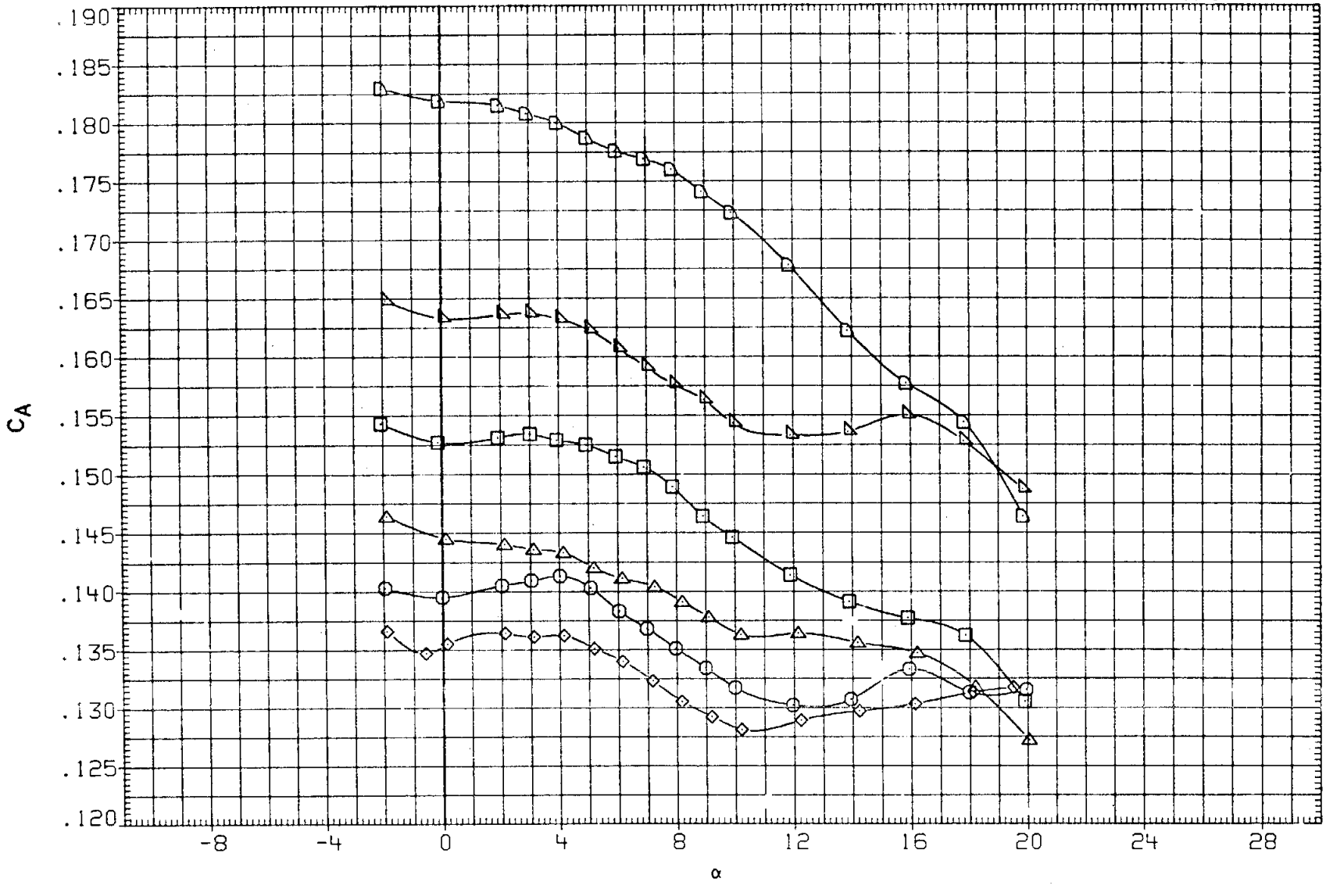

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◁	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	▷	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

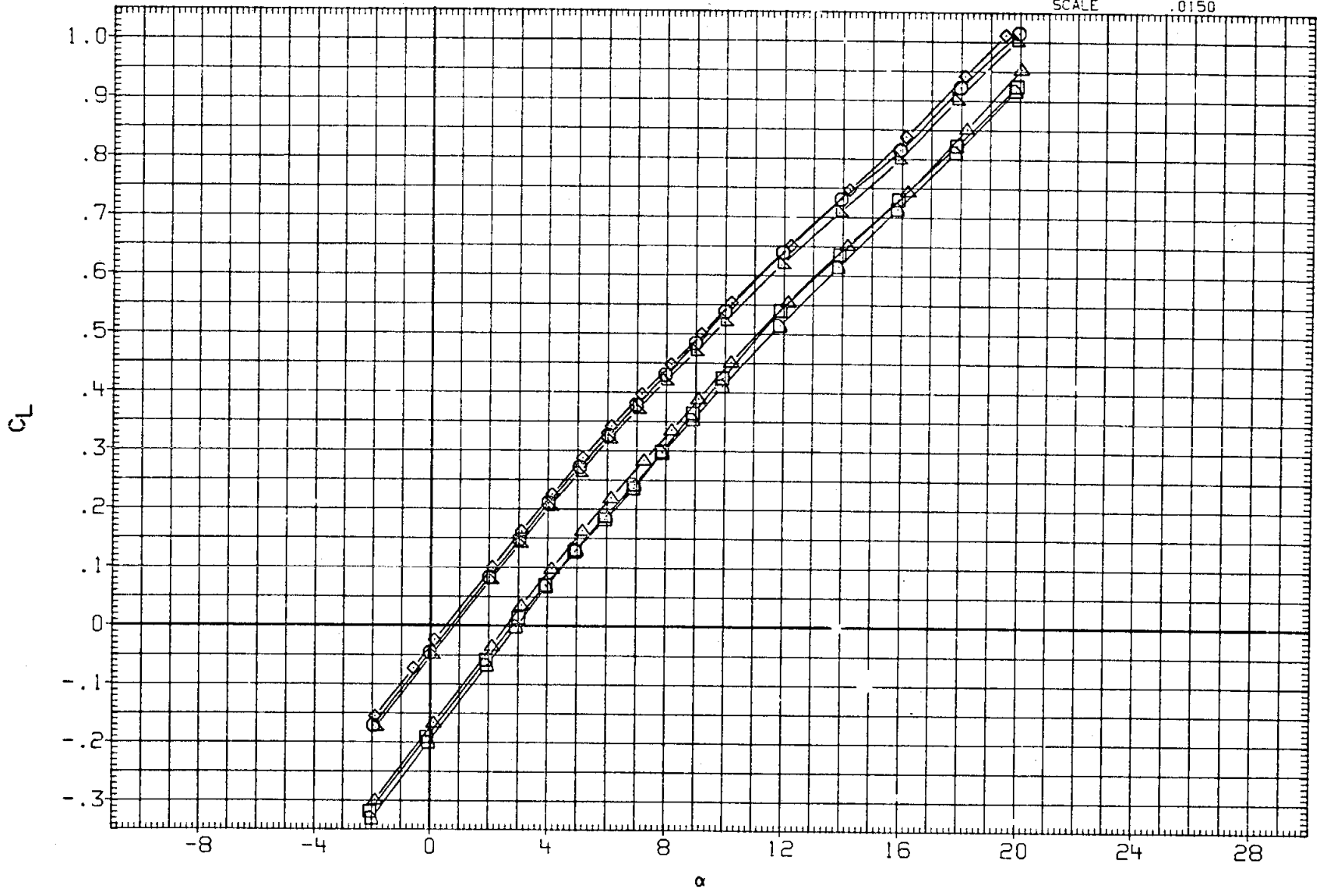

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

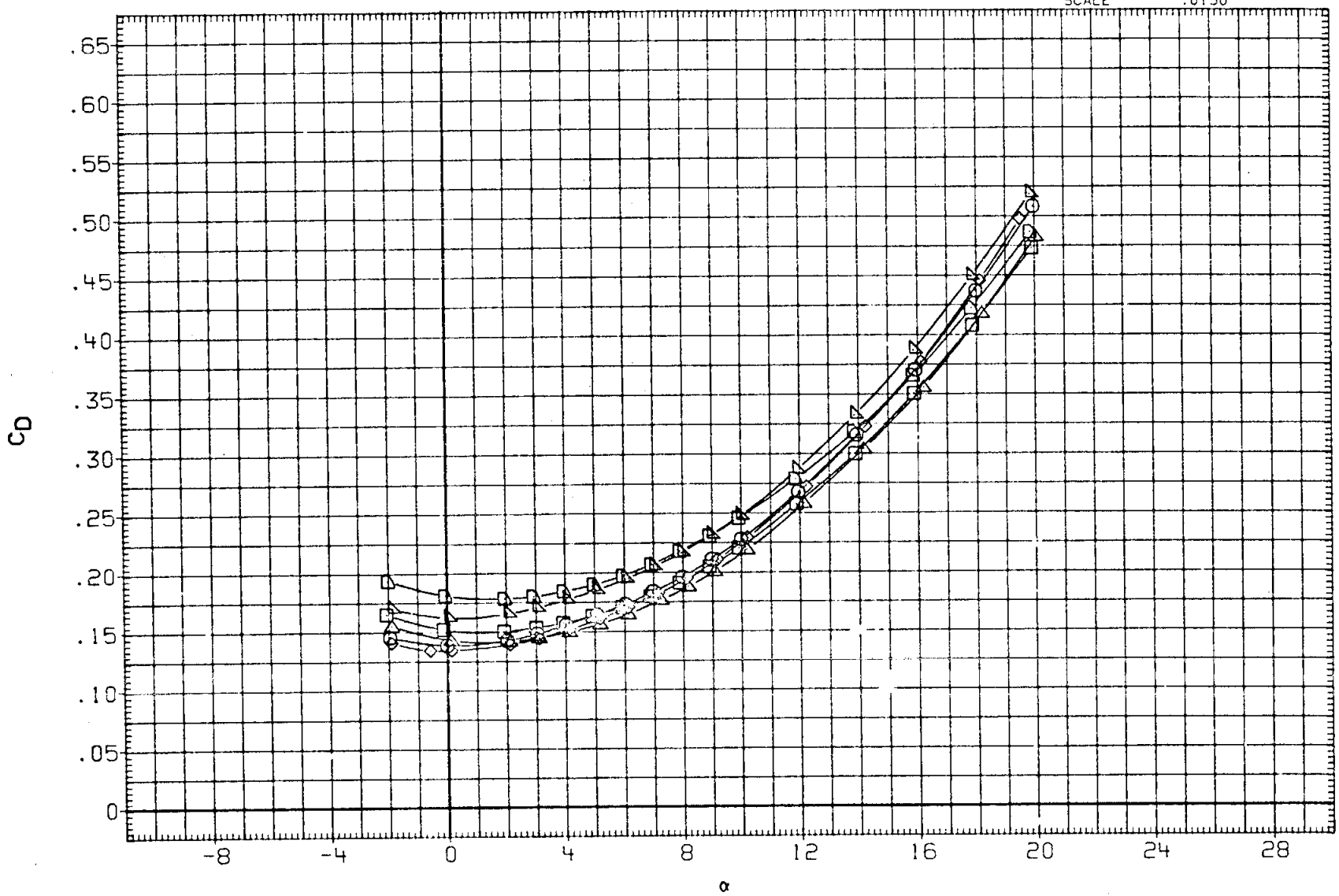

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	◻	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

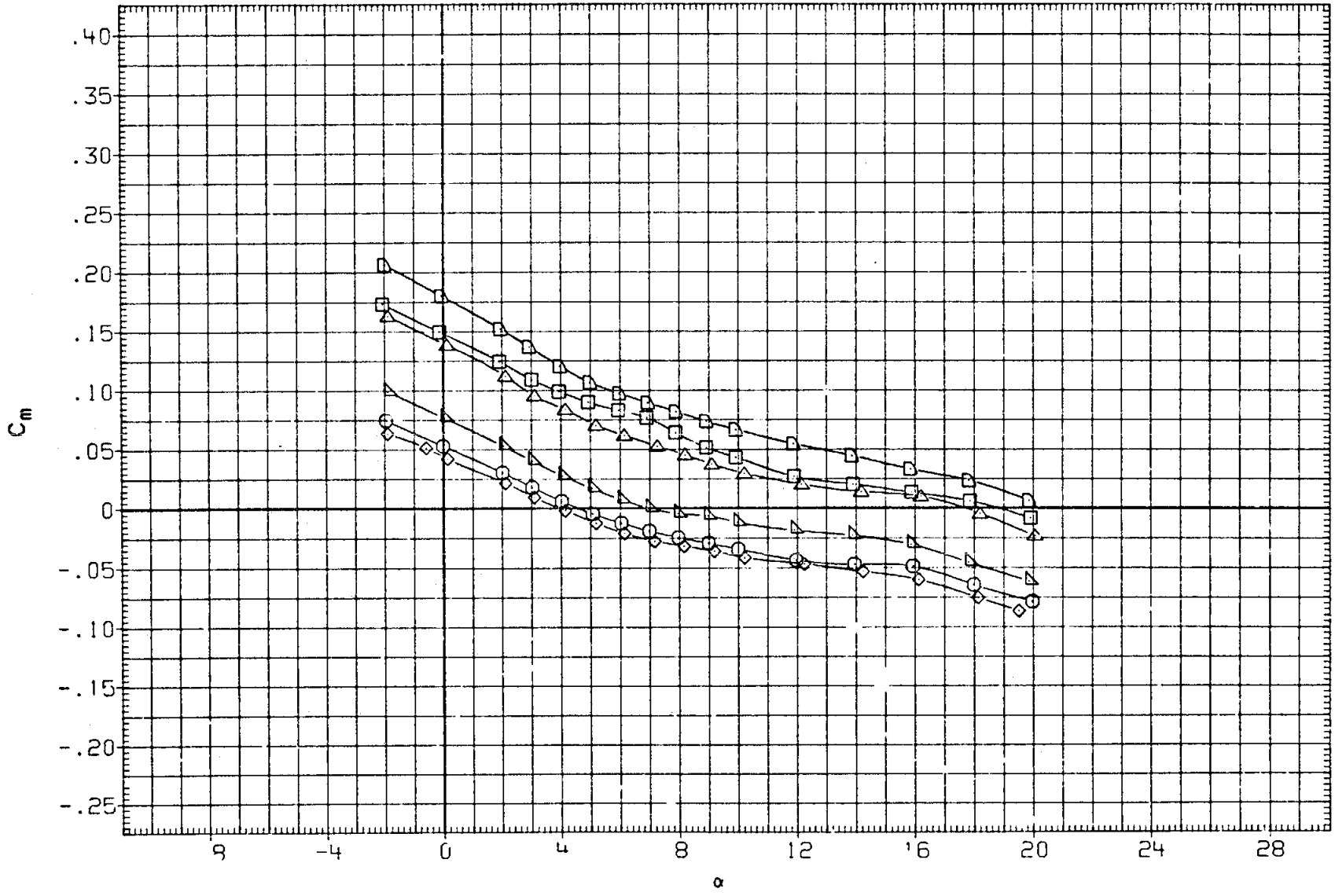

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28109	◁	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R28084	◸	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R28085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

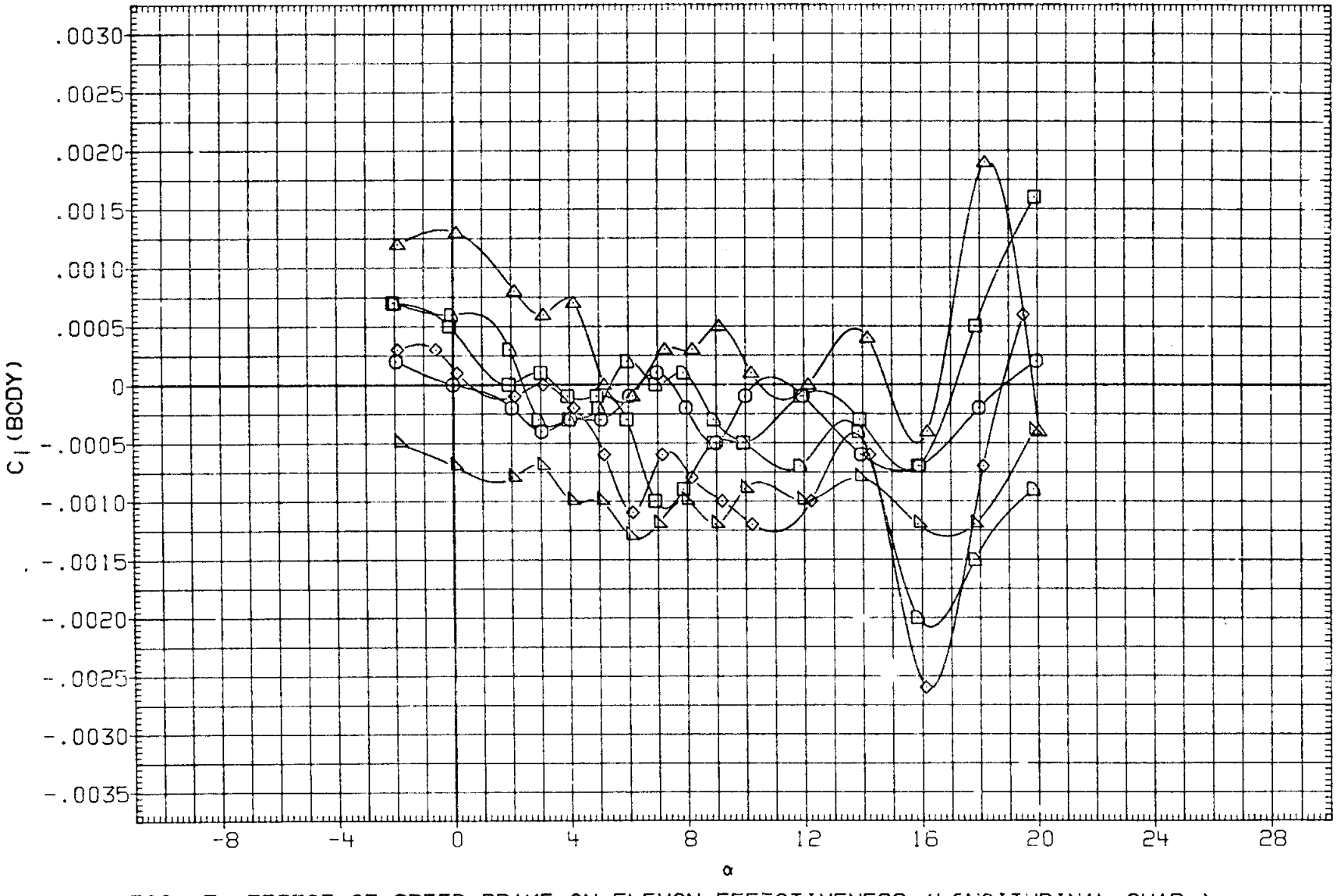

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B085	D	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

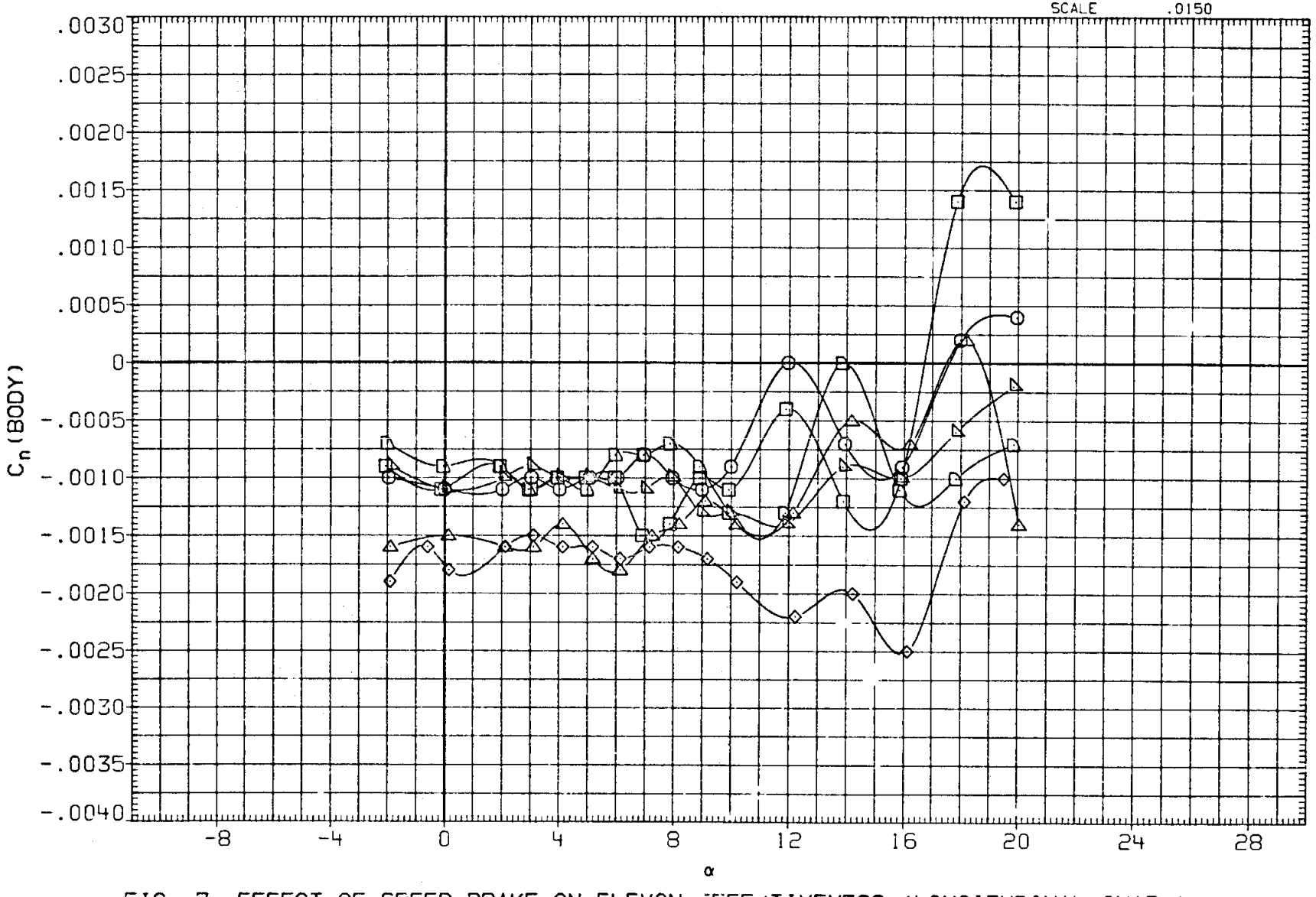

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B006	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B108	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B084	◺	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
2B085	▱	ARC 200-1 11(LA77) OV101	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

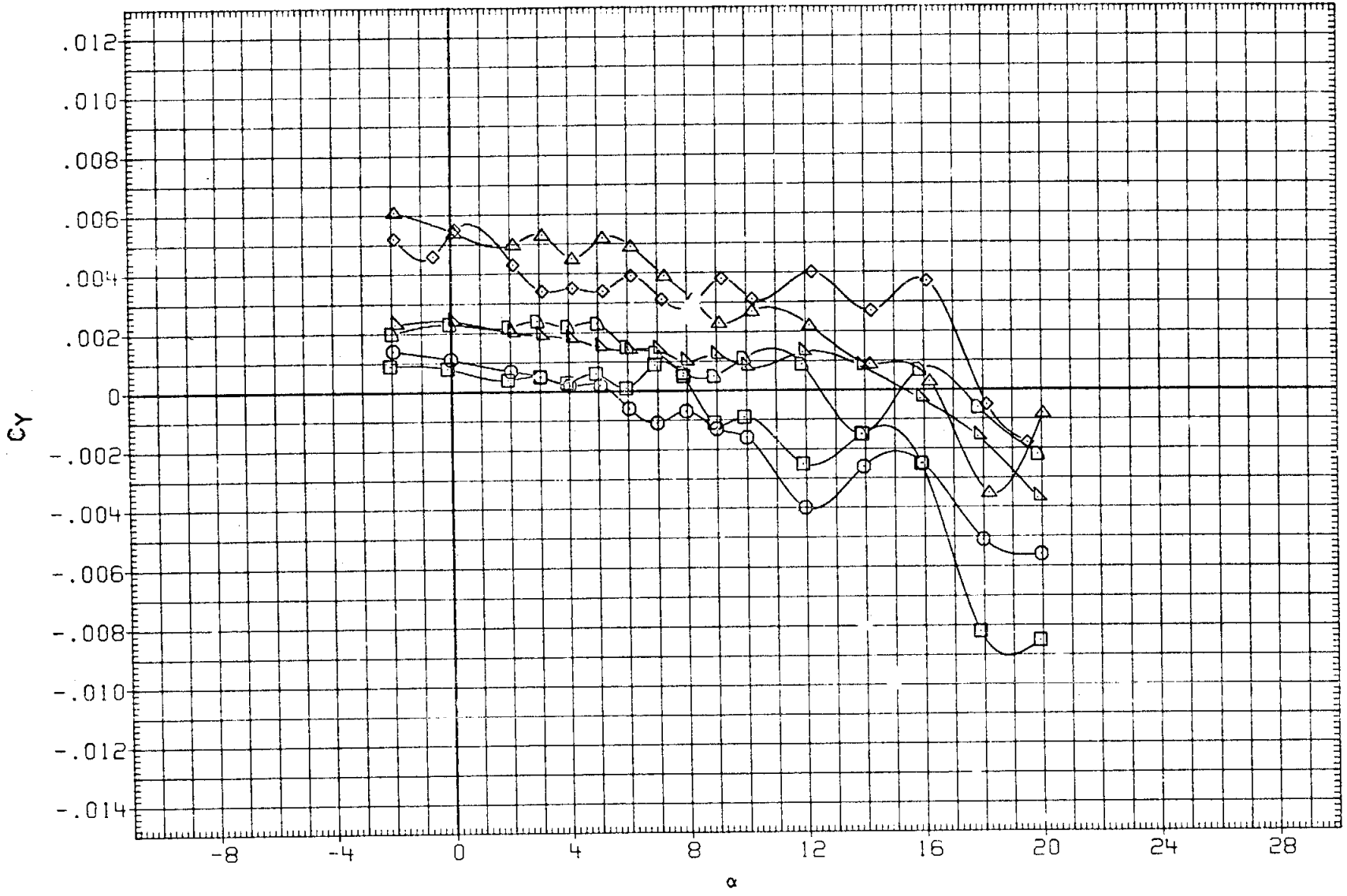

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	▷	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

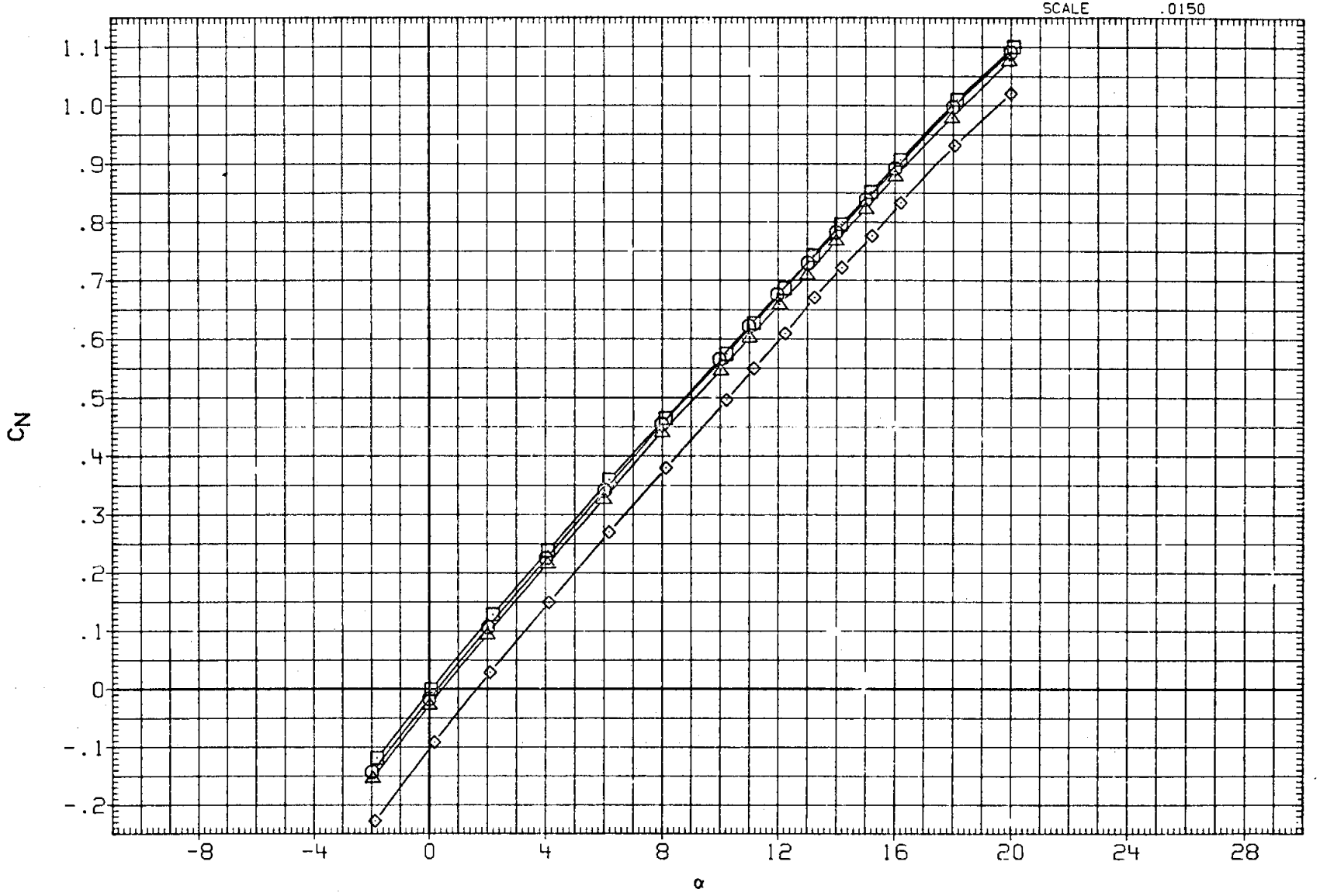

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B090	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

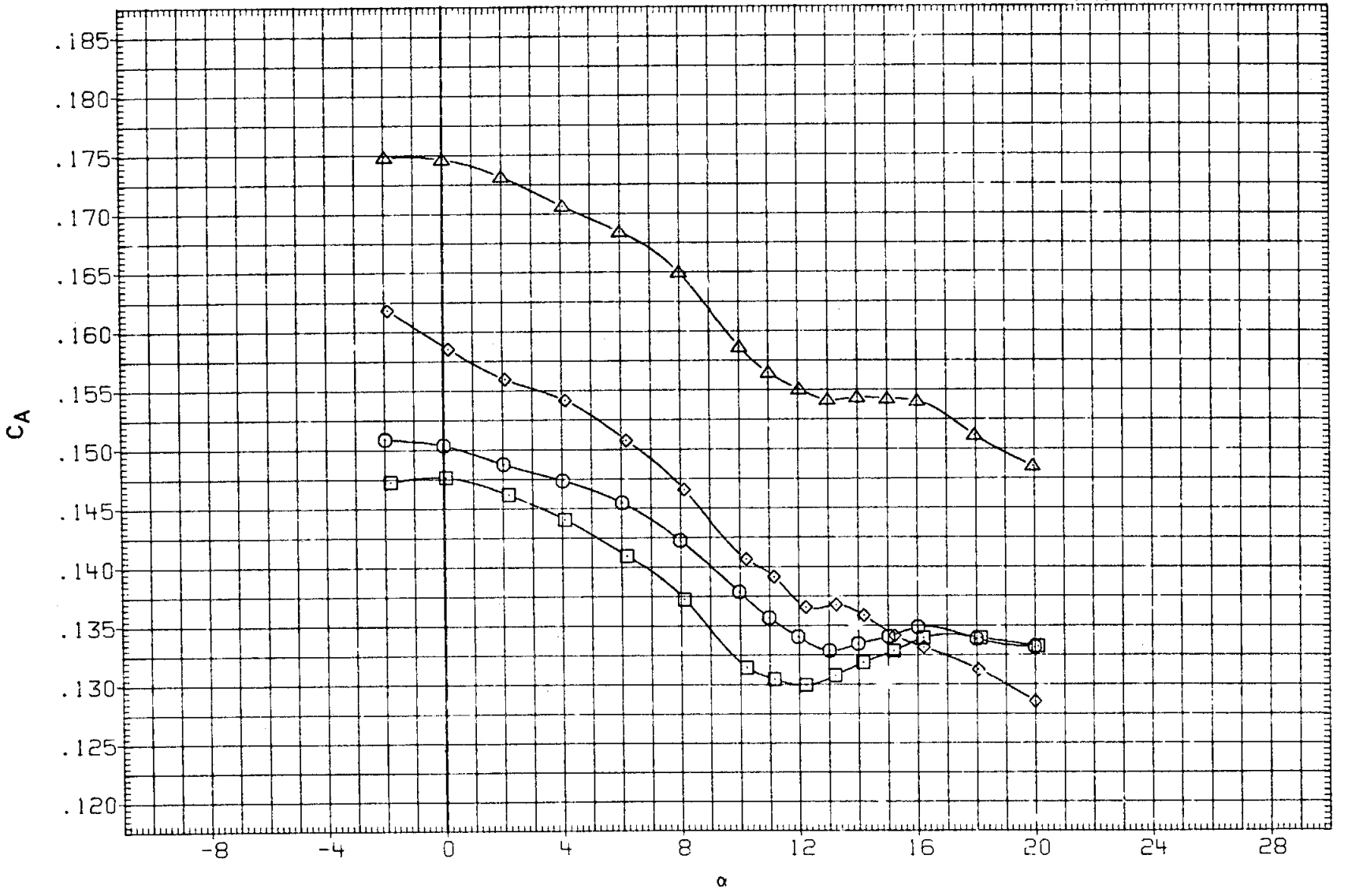

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

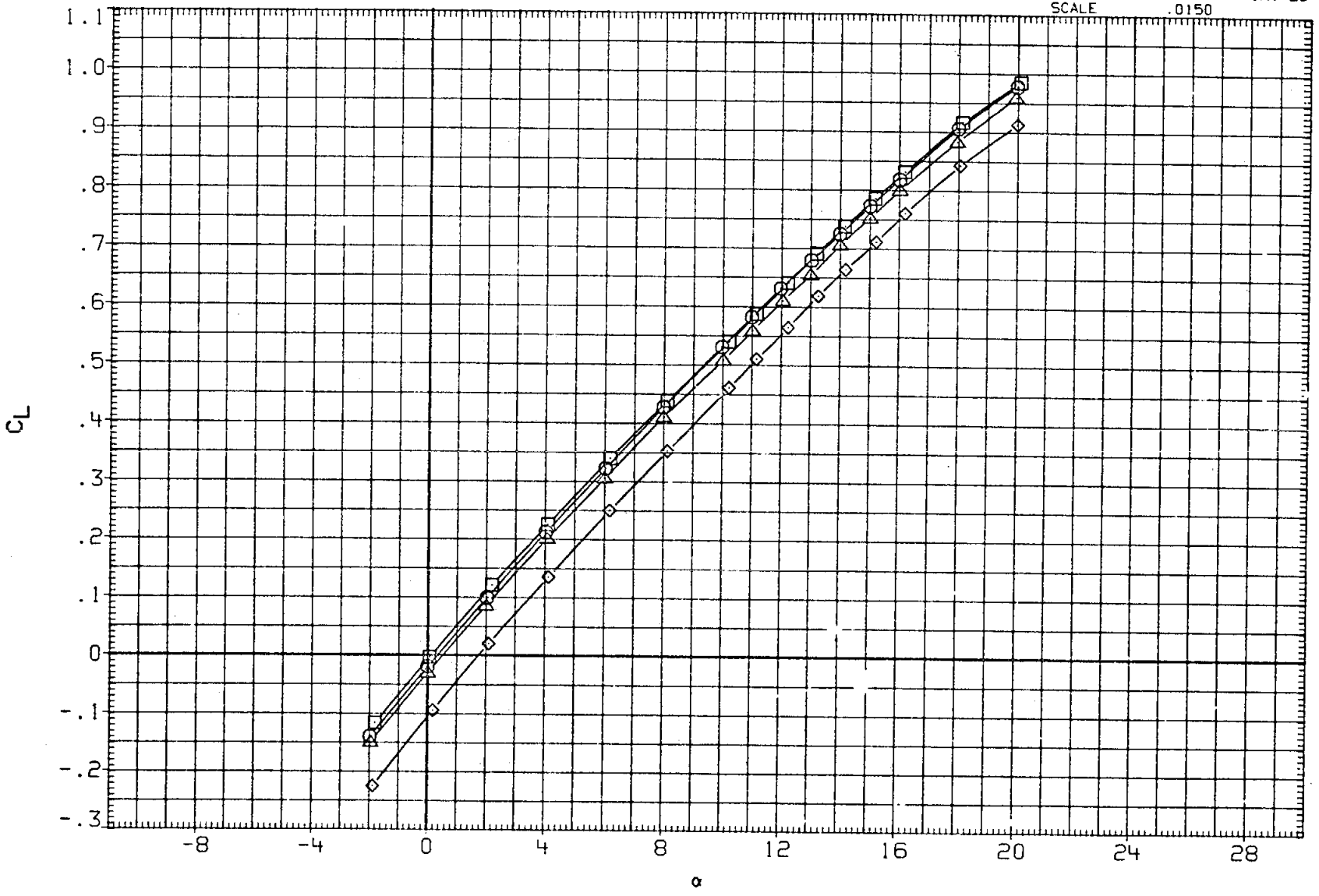

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R26080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R28061	⊿	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

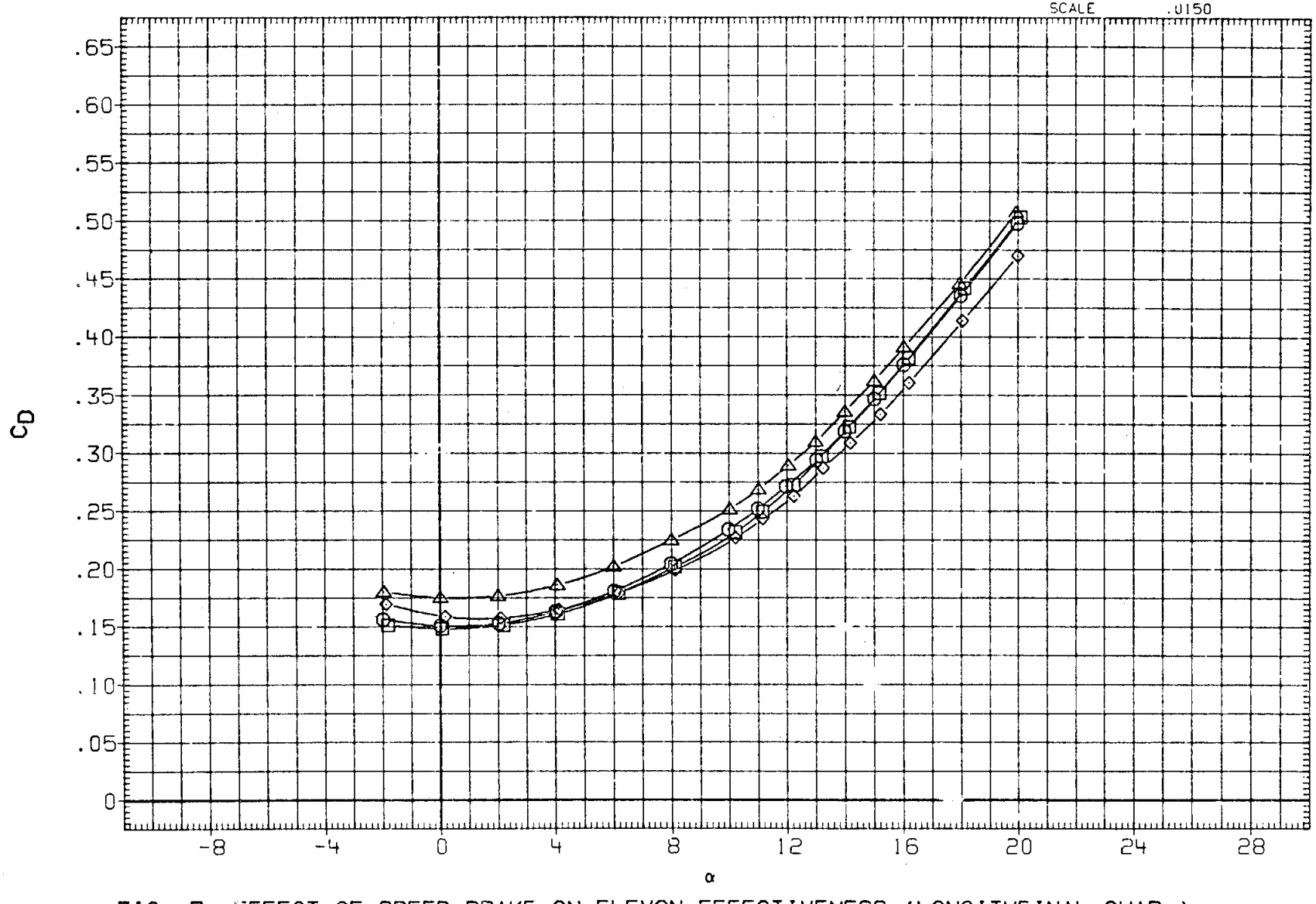

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

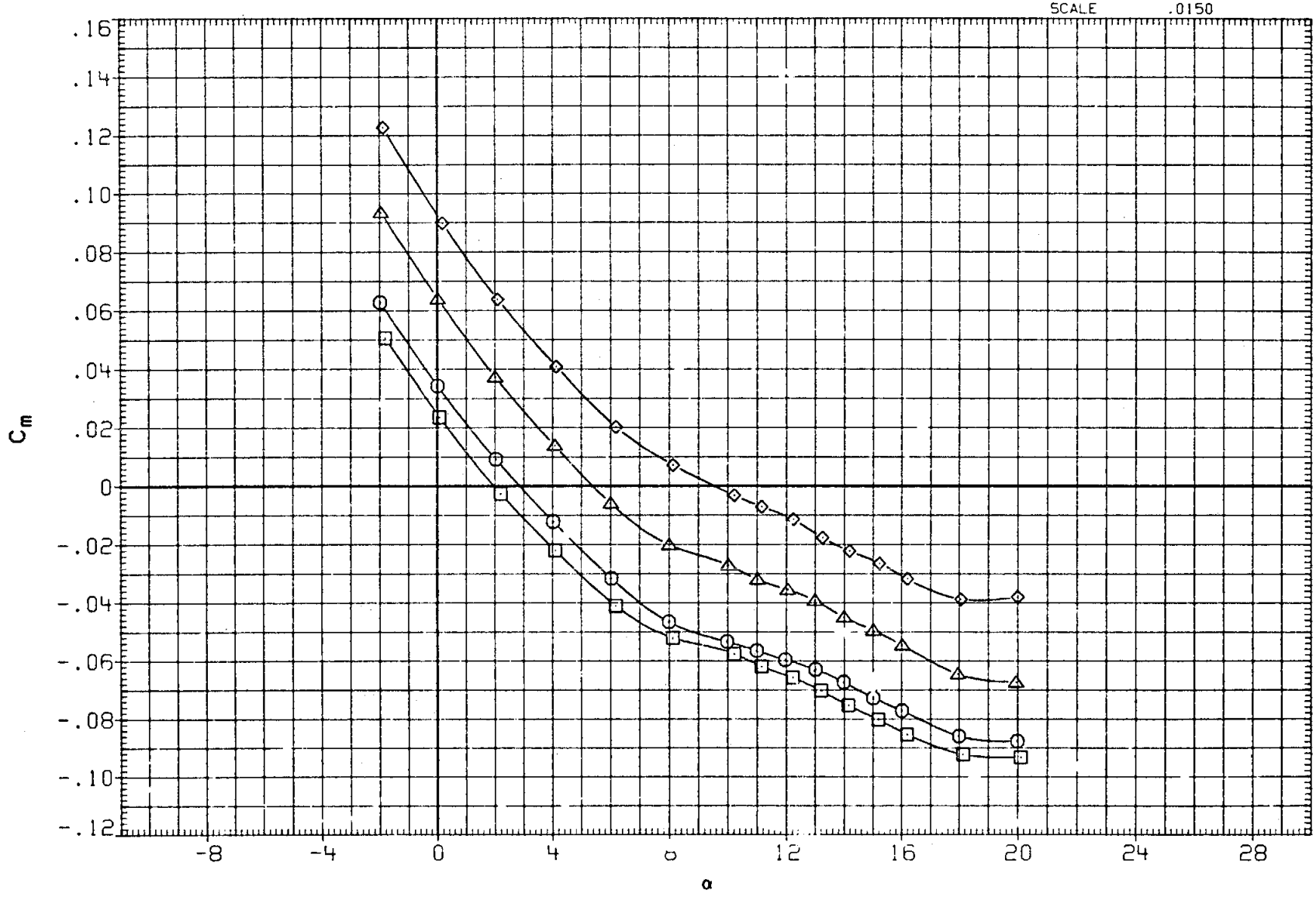

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B001	○	ARC 200-1 11(LA77) OV101
R2B103	□	ARC 200-1 11(LA77) OV101
R2B104	◇	ARC 200-1 11(LA77) OV101
R2B080	△	ARC 200-1 11(LA77) OV101
R2B081	◺	DATA NOT AVAILABLE

SPDBRK	BDFLAP	AILRON	ELEVON
25.000	.000	.000	.000
.000	.000	.000	.000
.000	.000	.000	-10.000
55.000	.000	.000	.000
55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

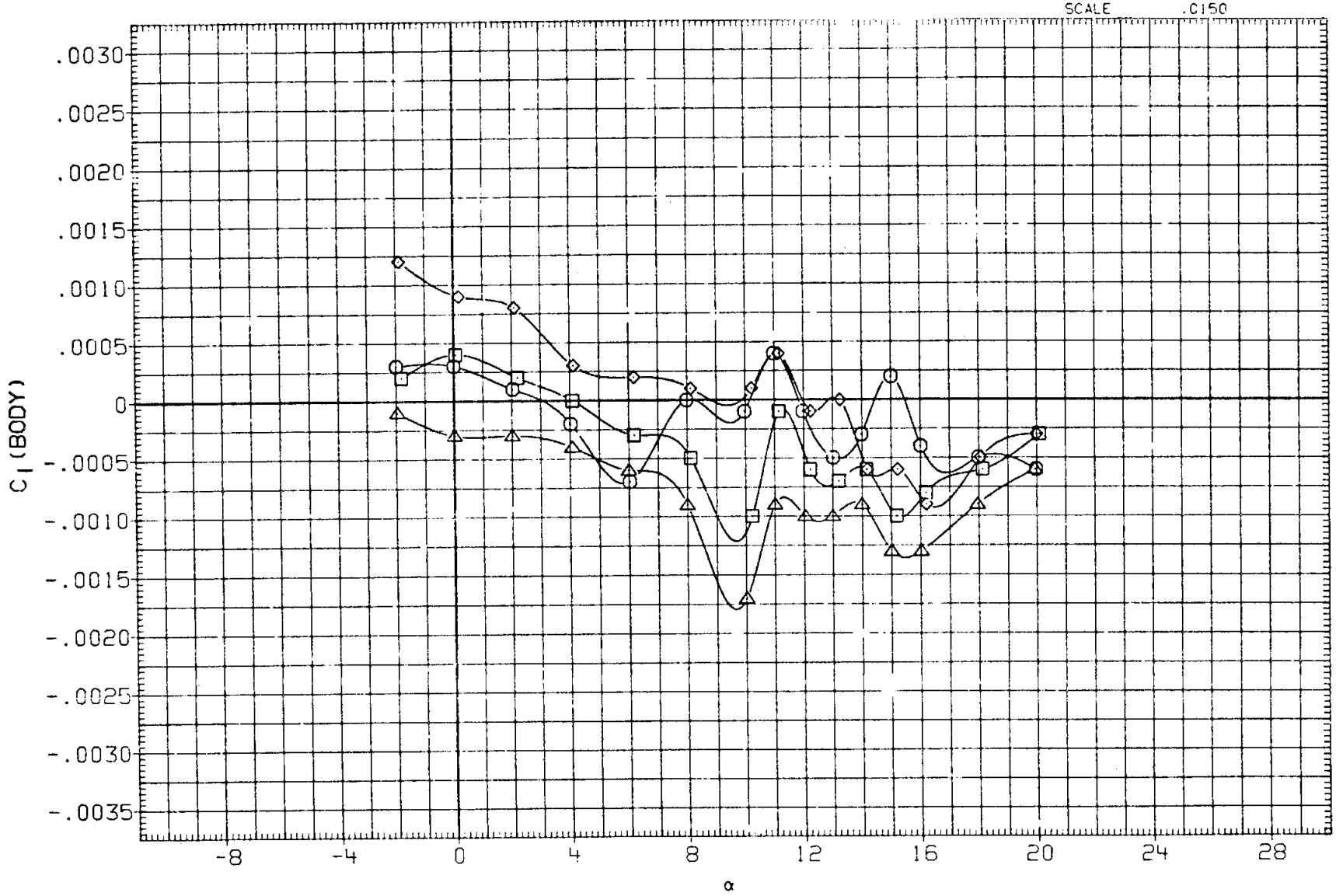

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

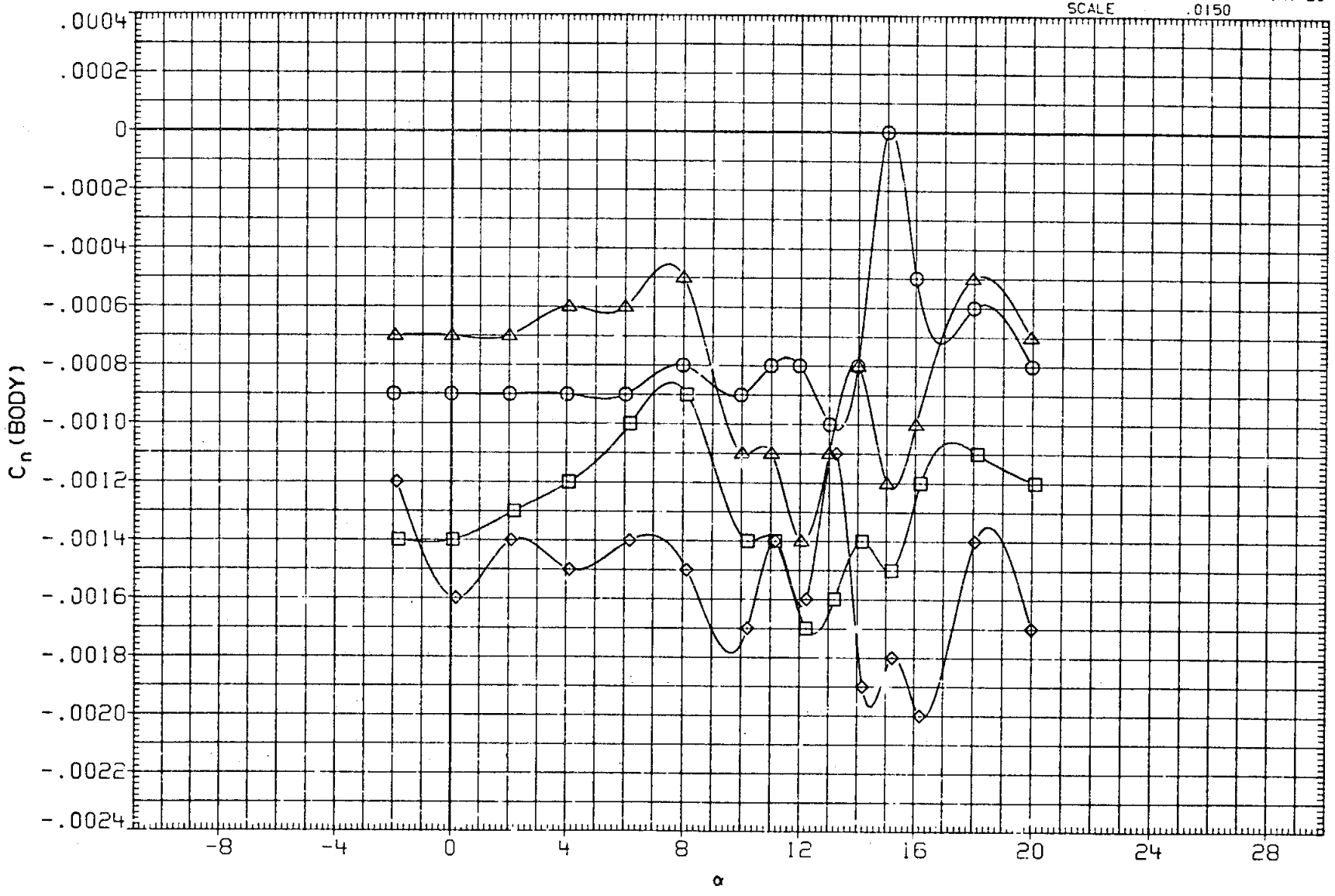

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B103	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B104	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	-10.000
R2B080	△	ARC 200-1 11(LA77) OV101	55.000	.000	.000	.000
R2B081	◺	DATA NOT AVAILABLE	55.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

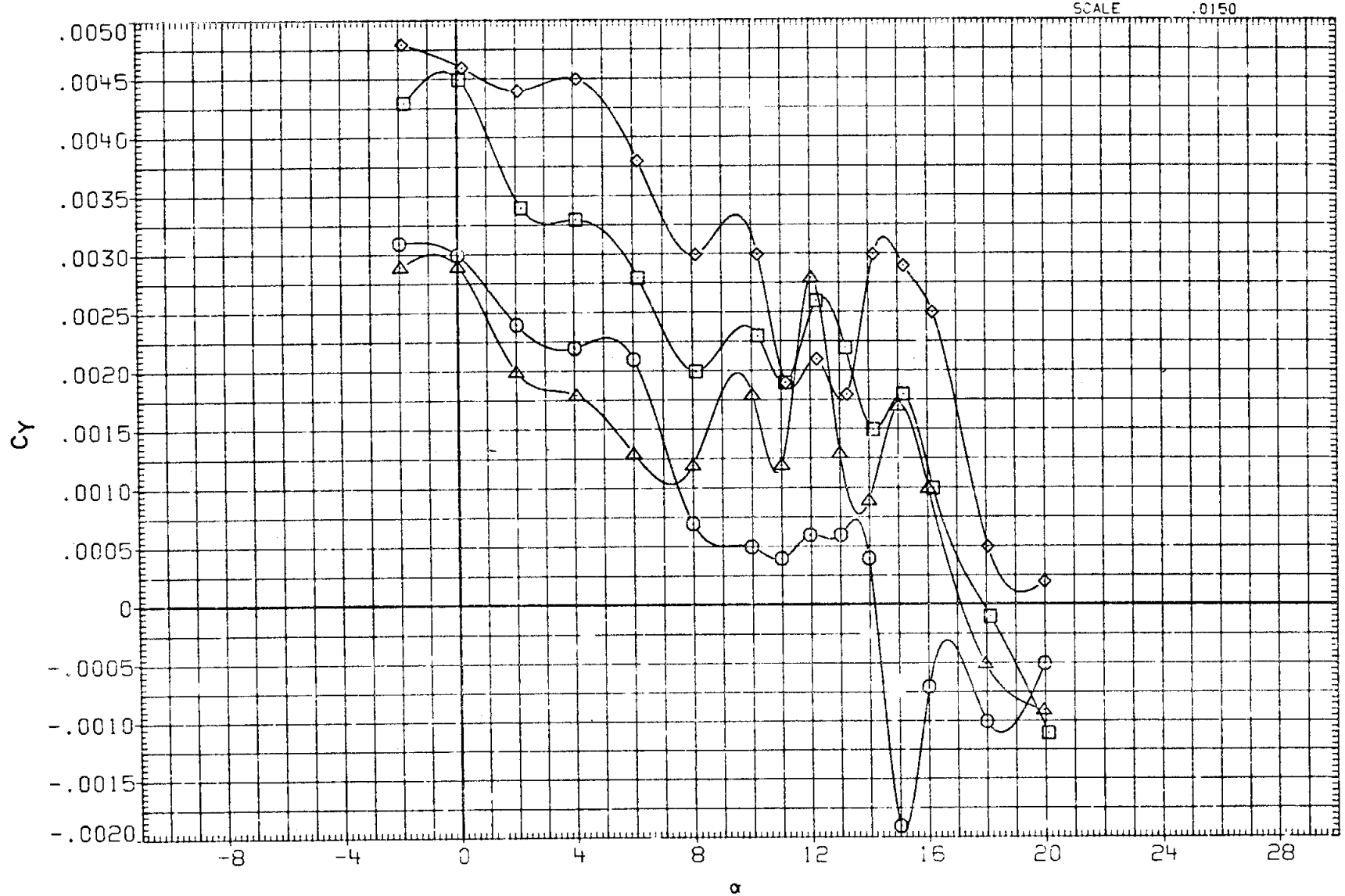

FIG. 7 EFFECT OF SPEED BRAKE ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◁	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

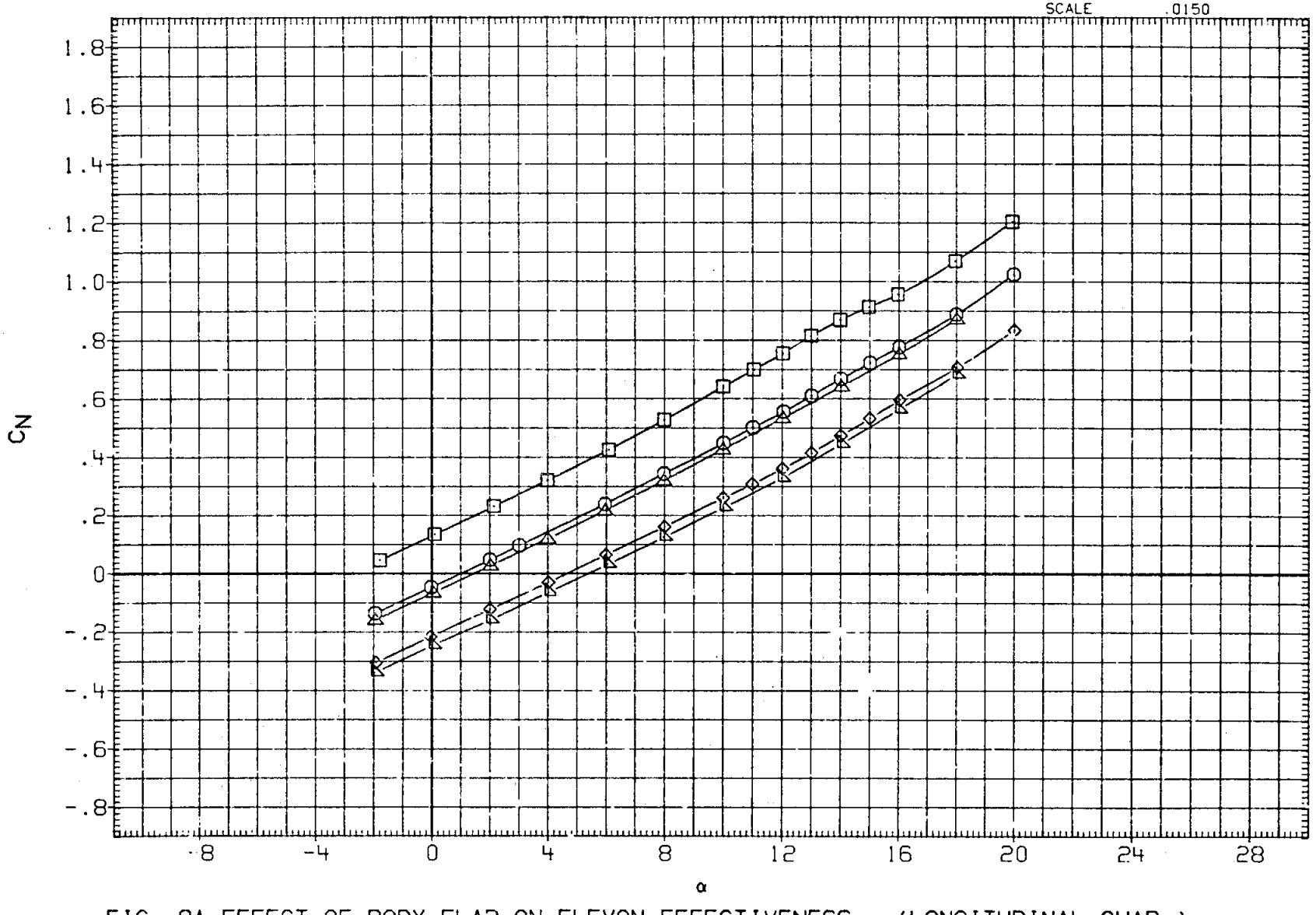

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

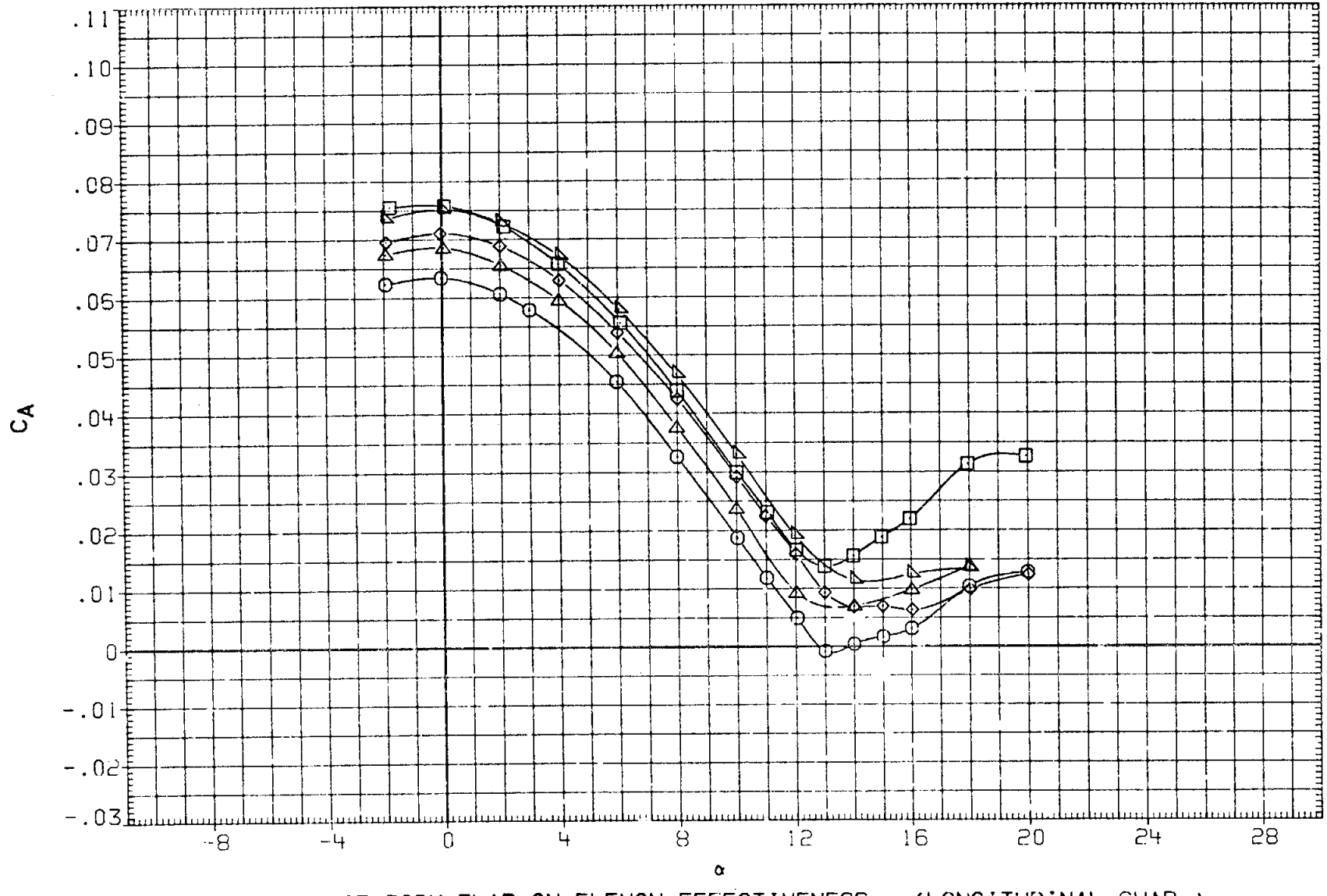

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

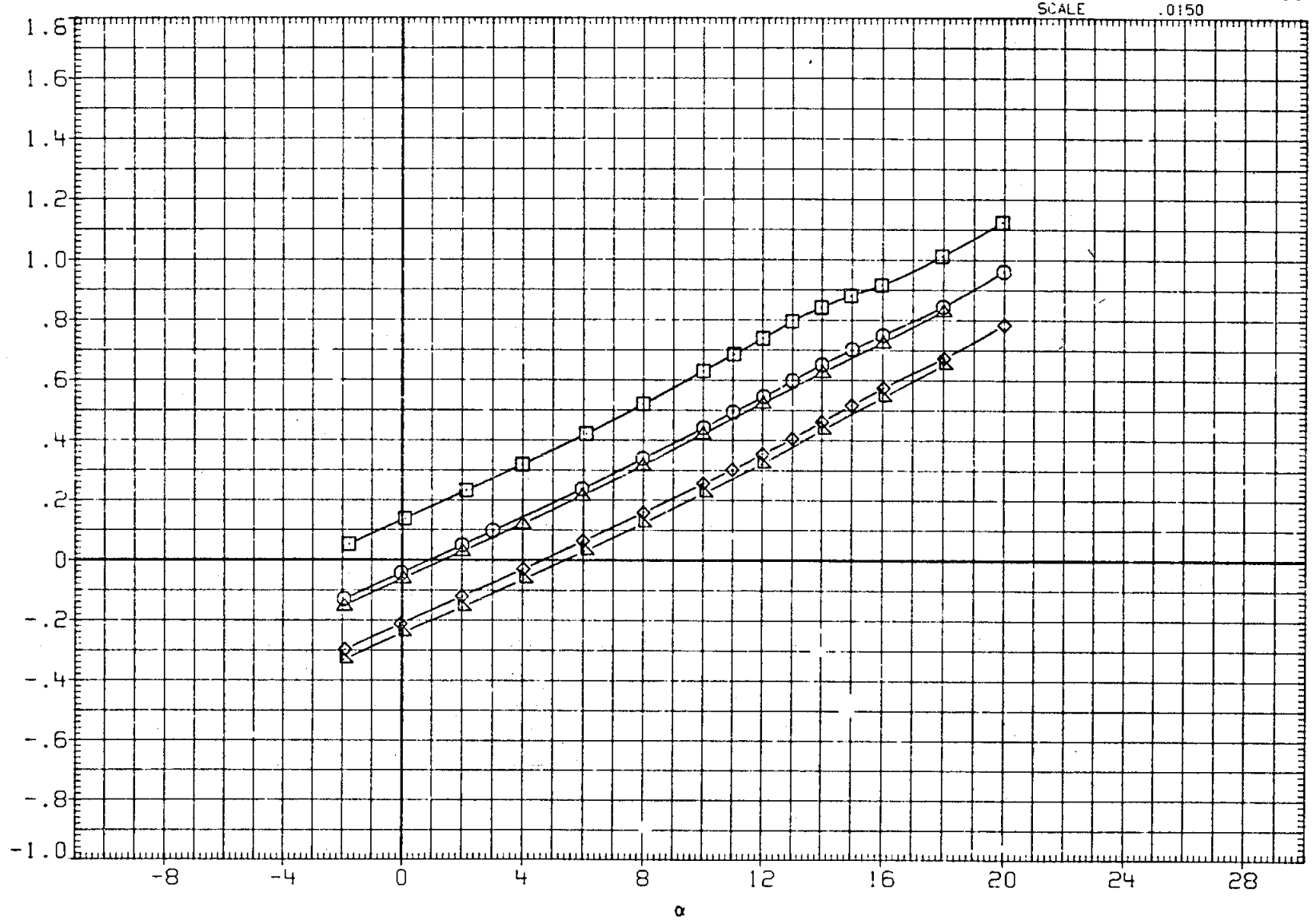

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

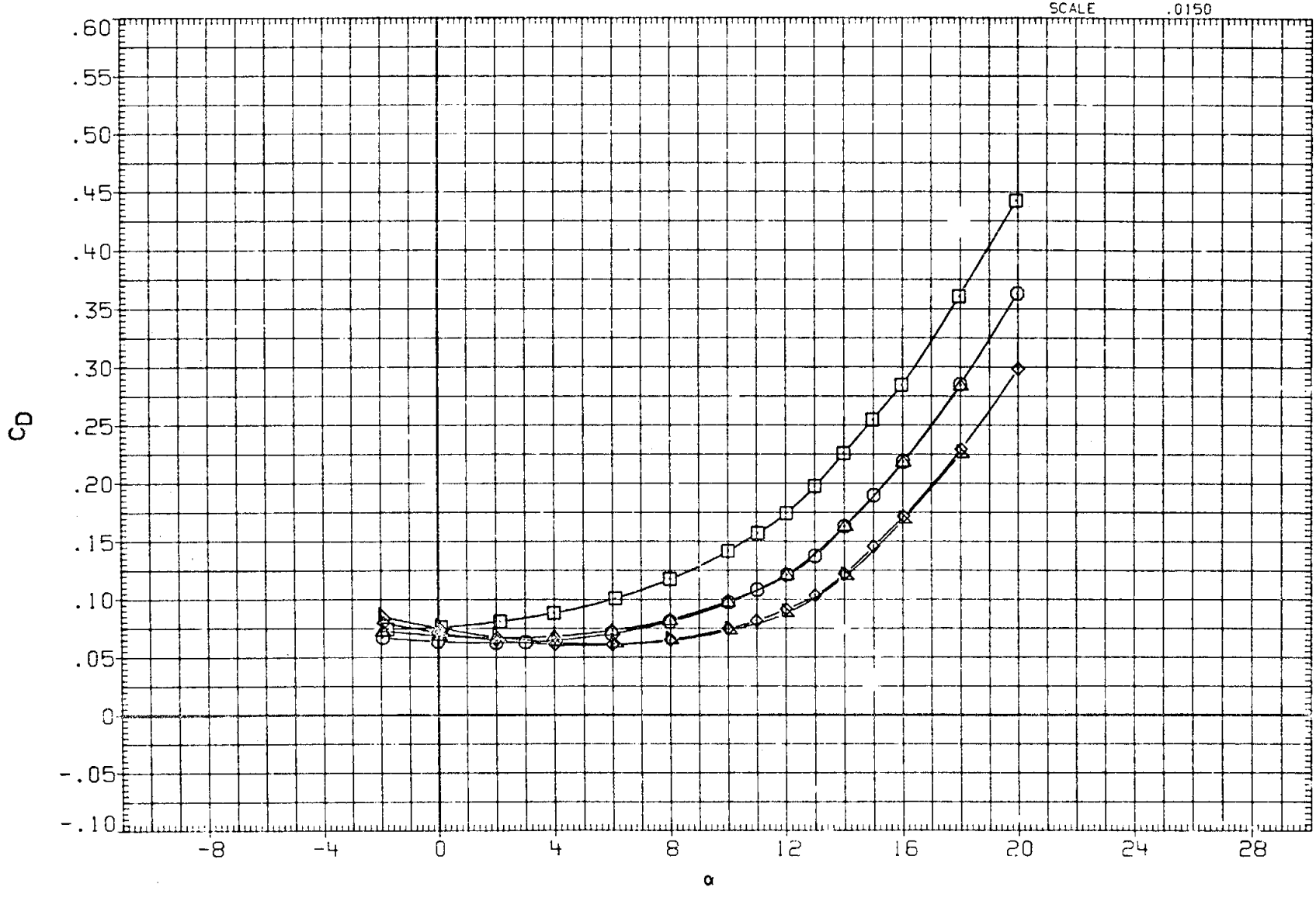

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

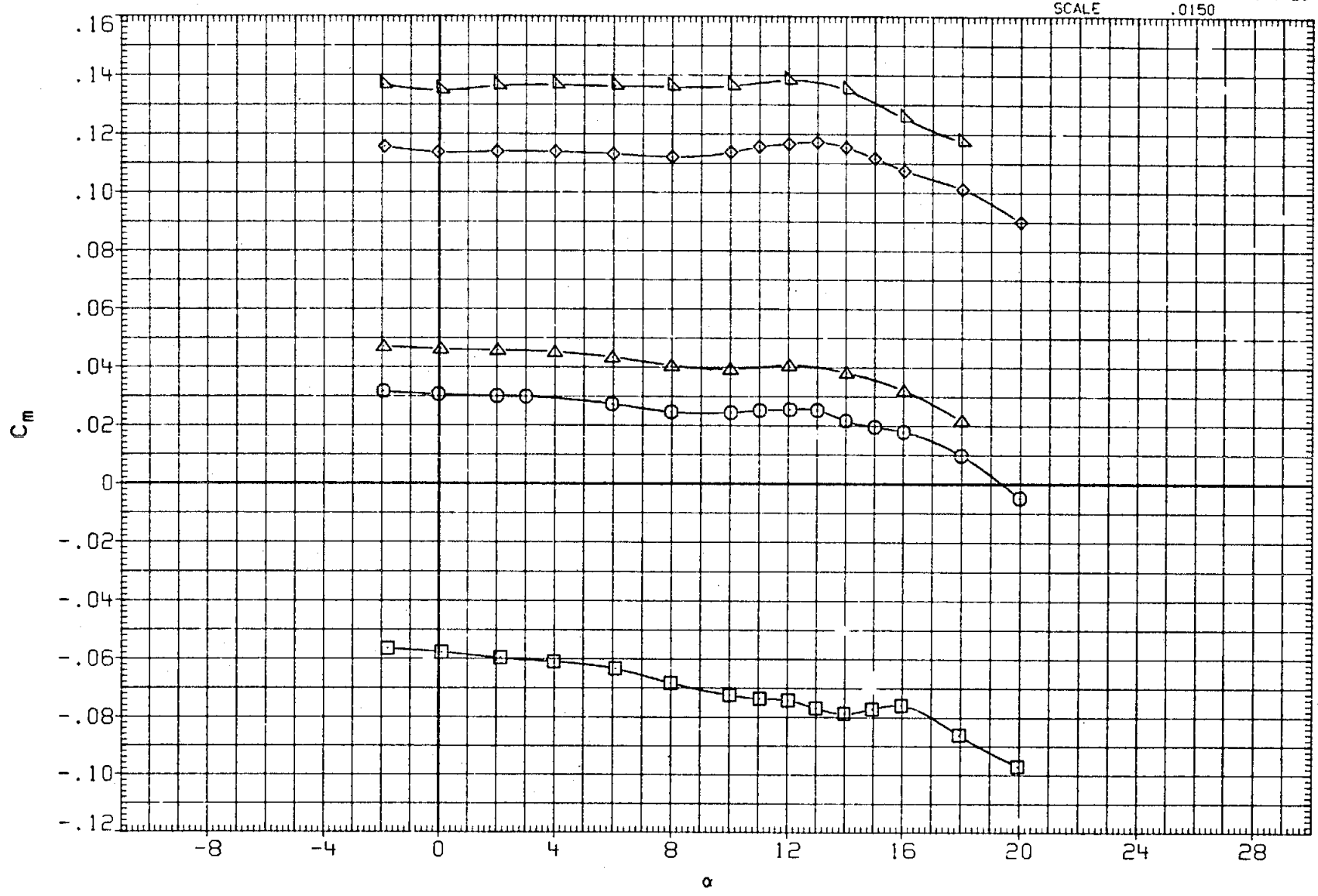

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R28018	○	ARC 200-1 11(LA77) OV101
R28019	□	ARC 200-1 11(LA77) OV101
R28020	◇	ARC 200-1 11(LA77) OV101
R28141	△	ARC 200-1 11(LA77) OV101
R28142	◺	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
25.000	.000	.000	.000
25.000	.000	.000	10.000
25.000	.000	.000	-10.000
25.000	-11.700	.000	.000
25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

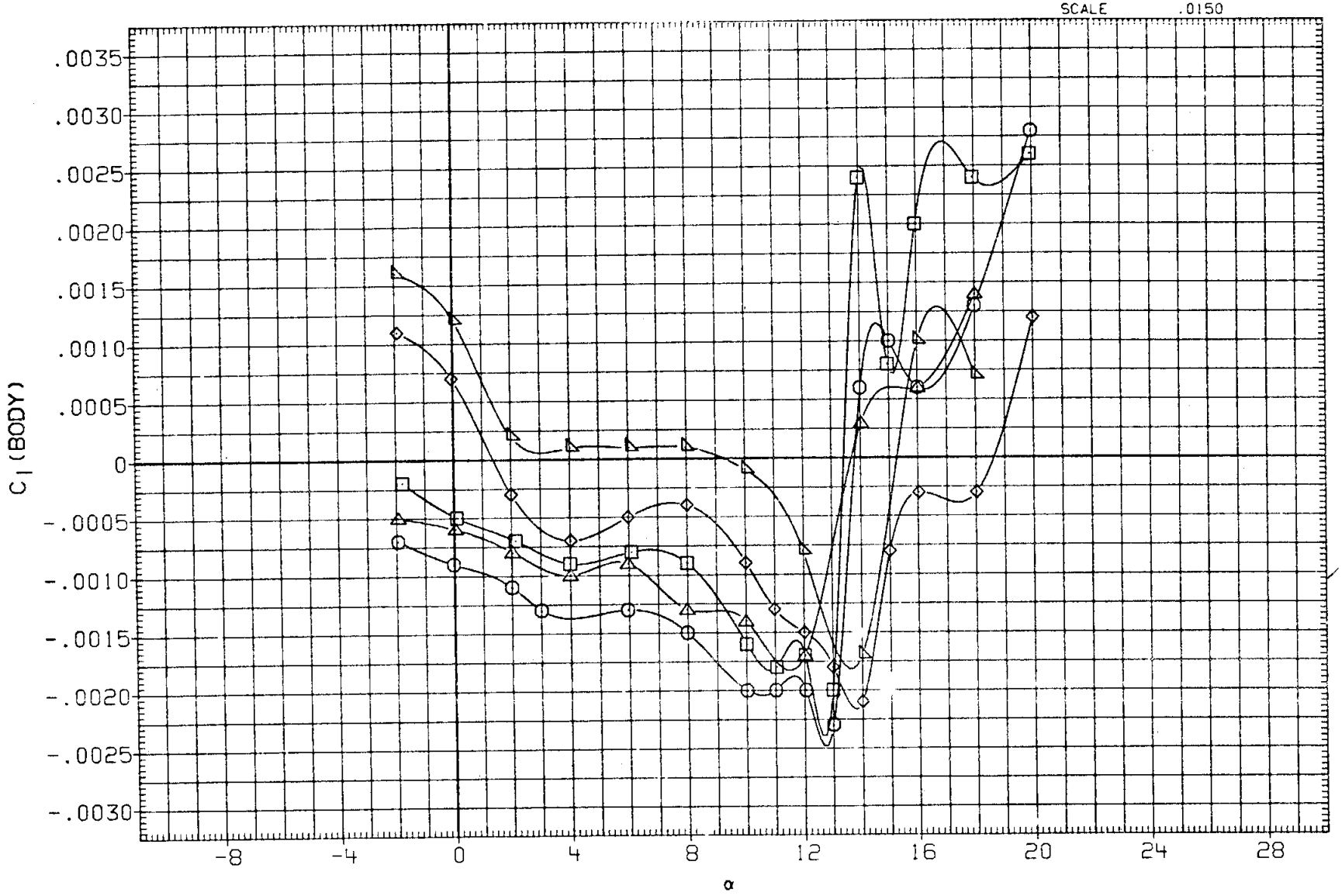

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

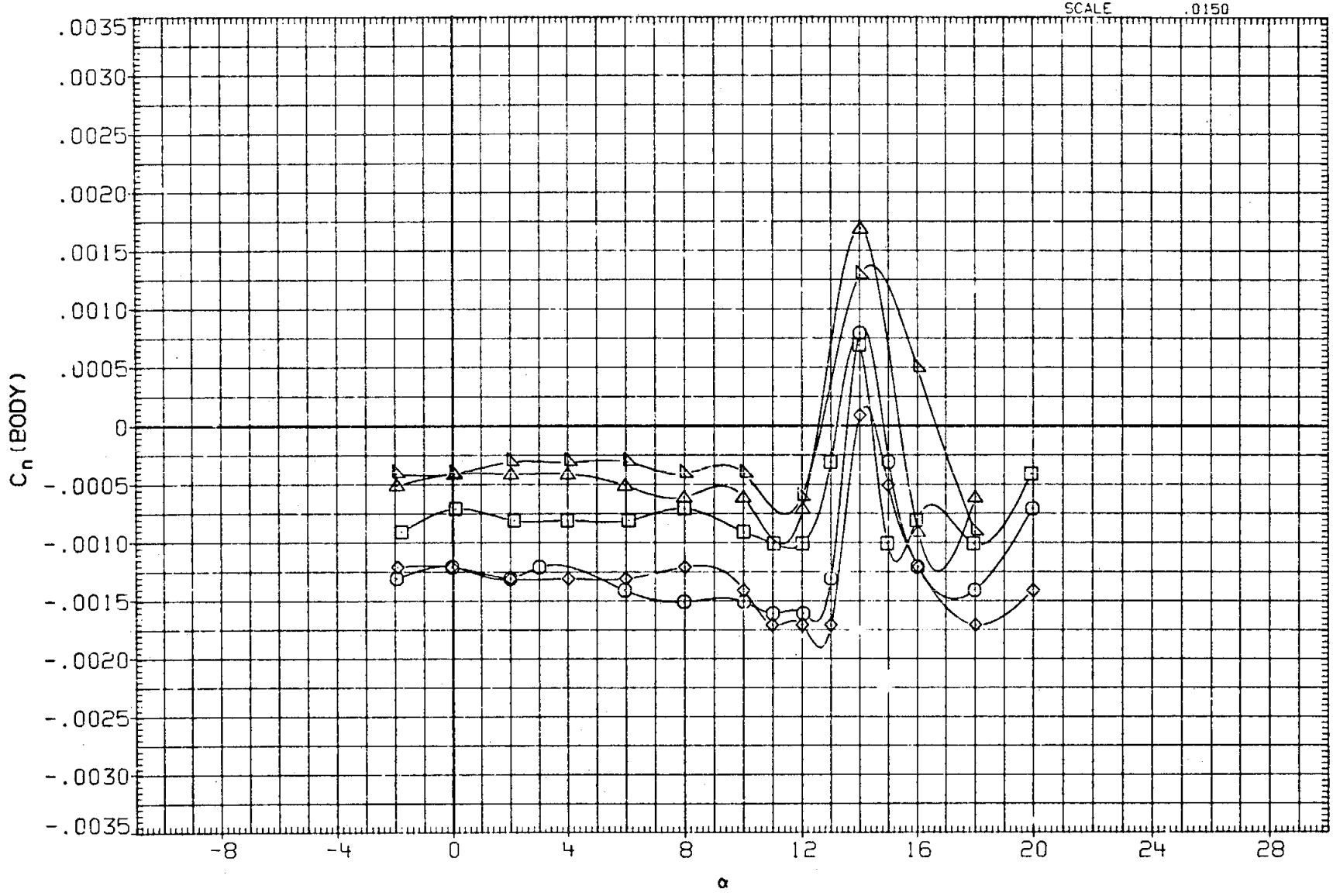

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B141	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

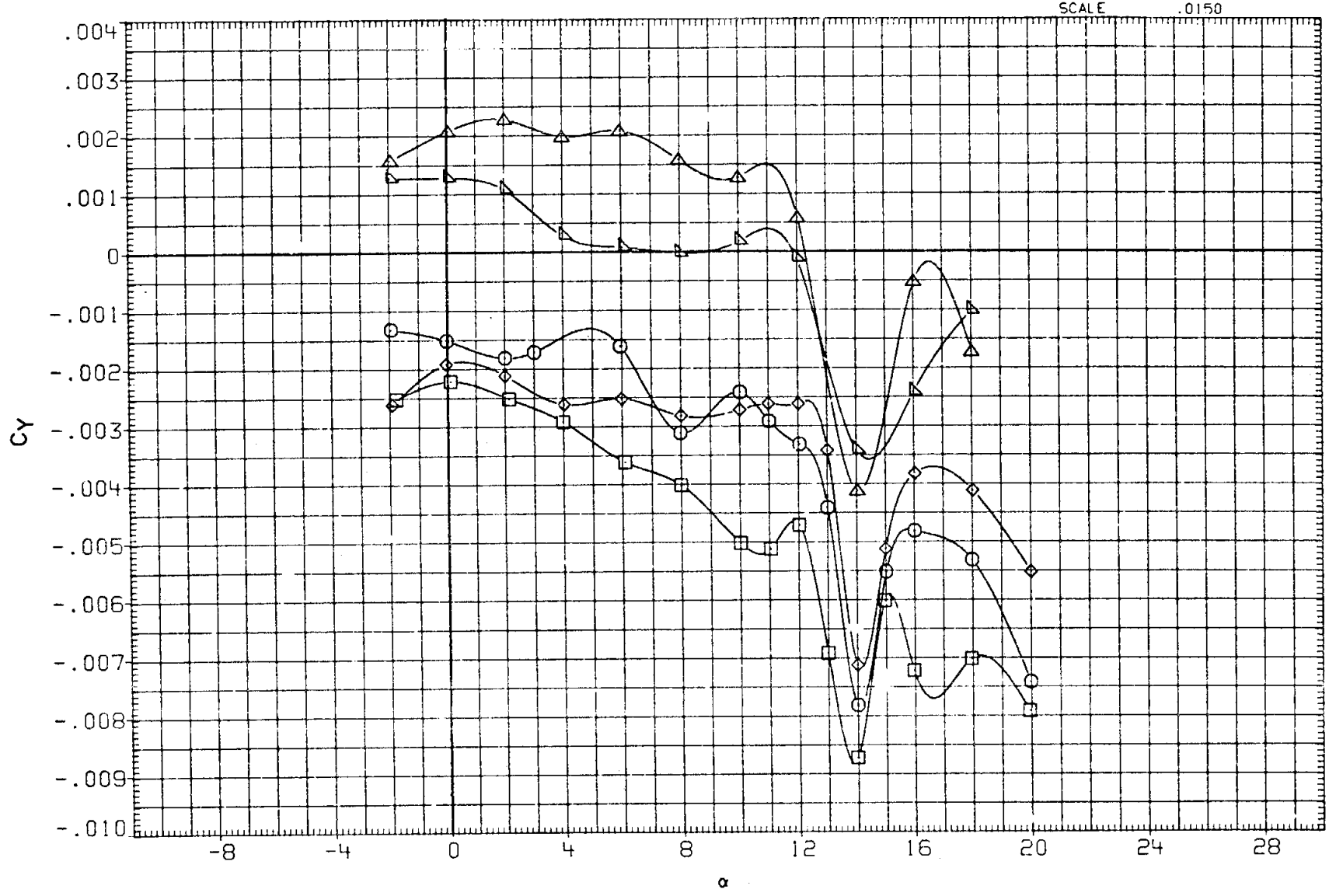

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11.LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

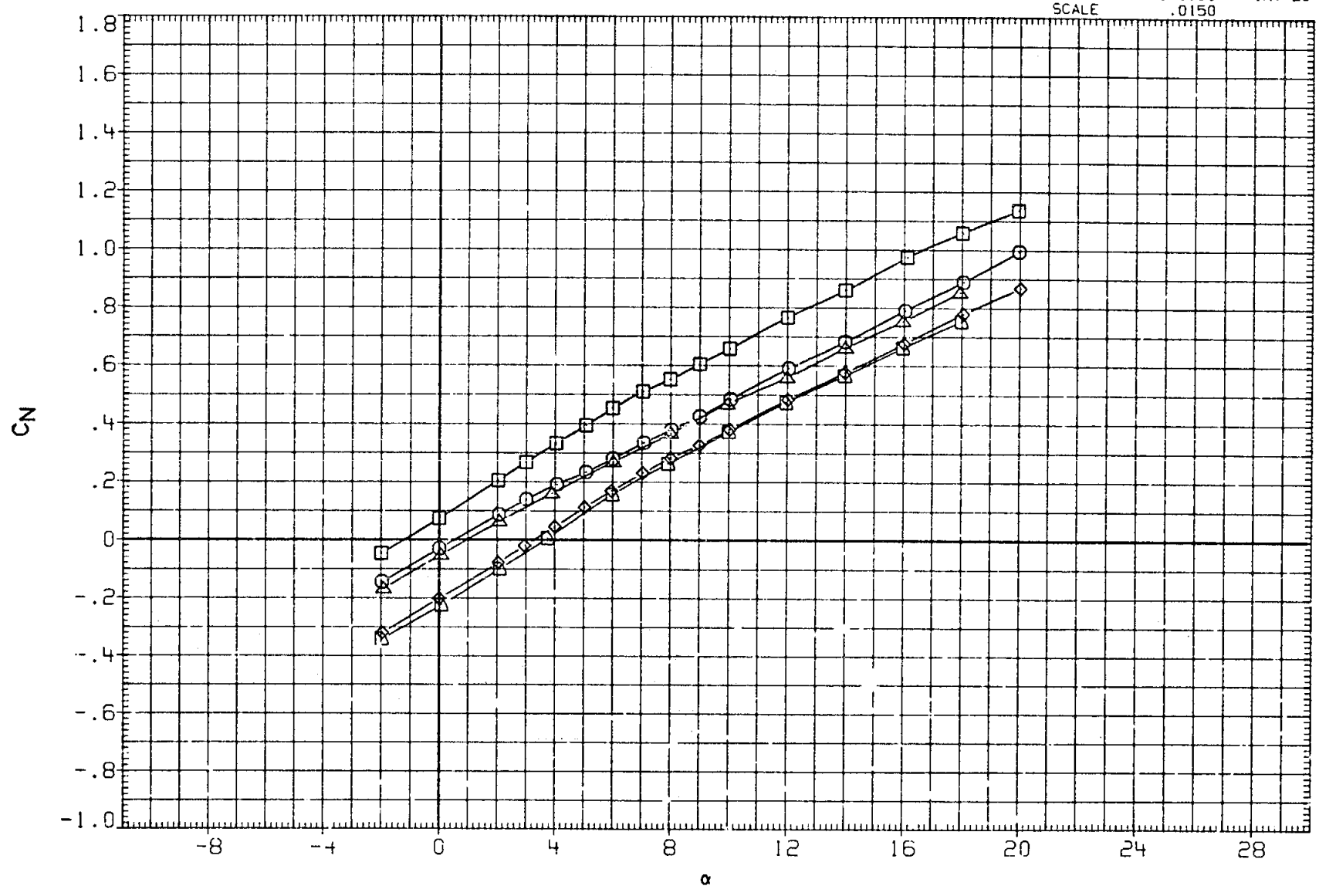

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◁	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

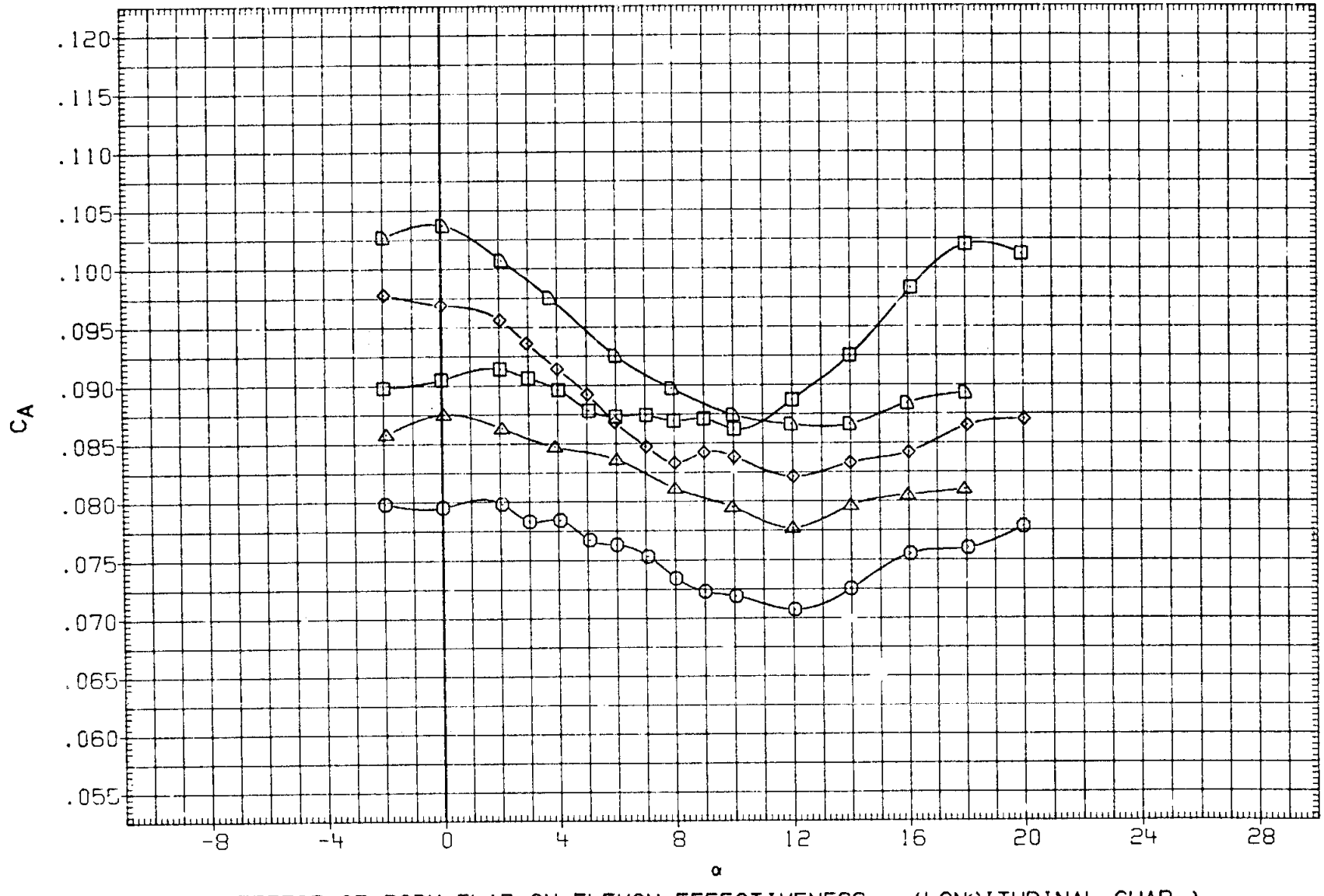

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R28148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R28146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

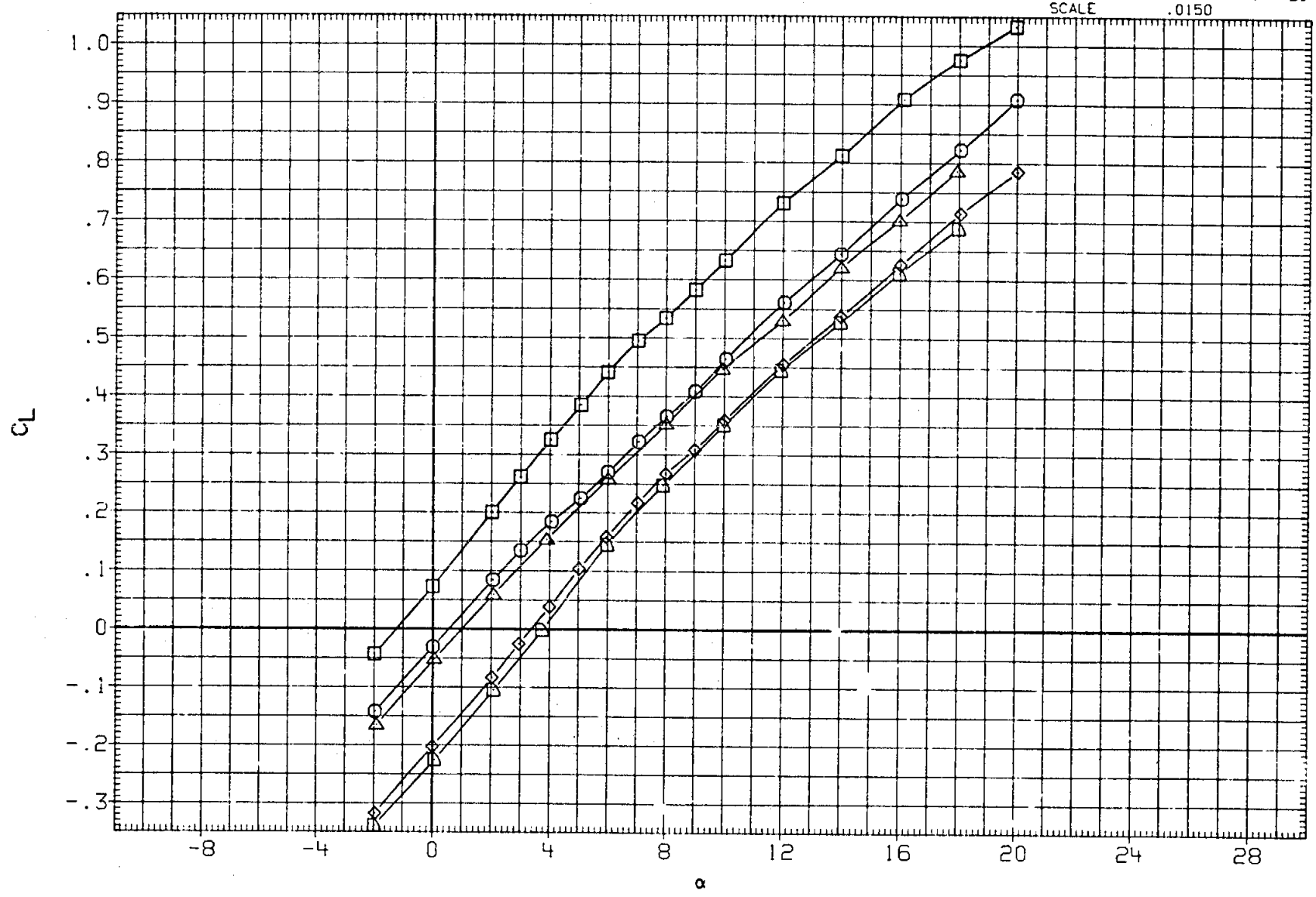

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◁	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

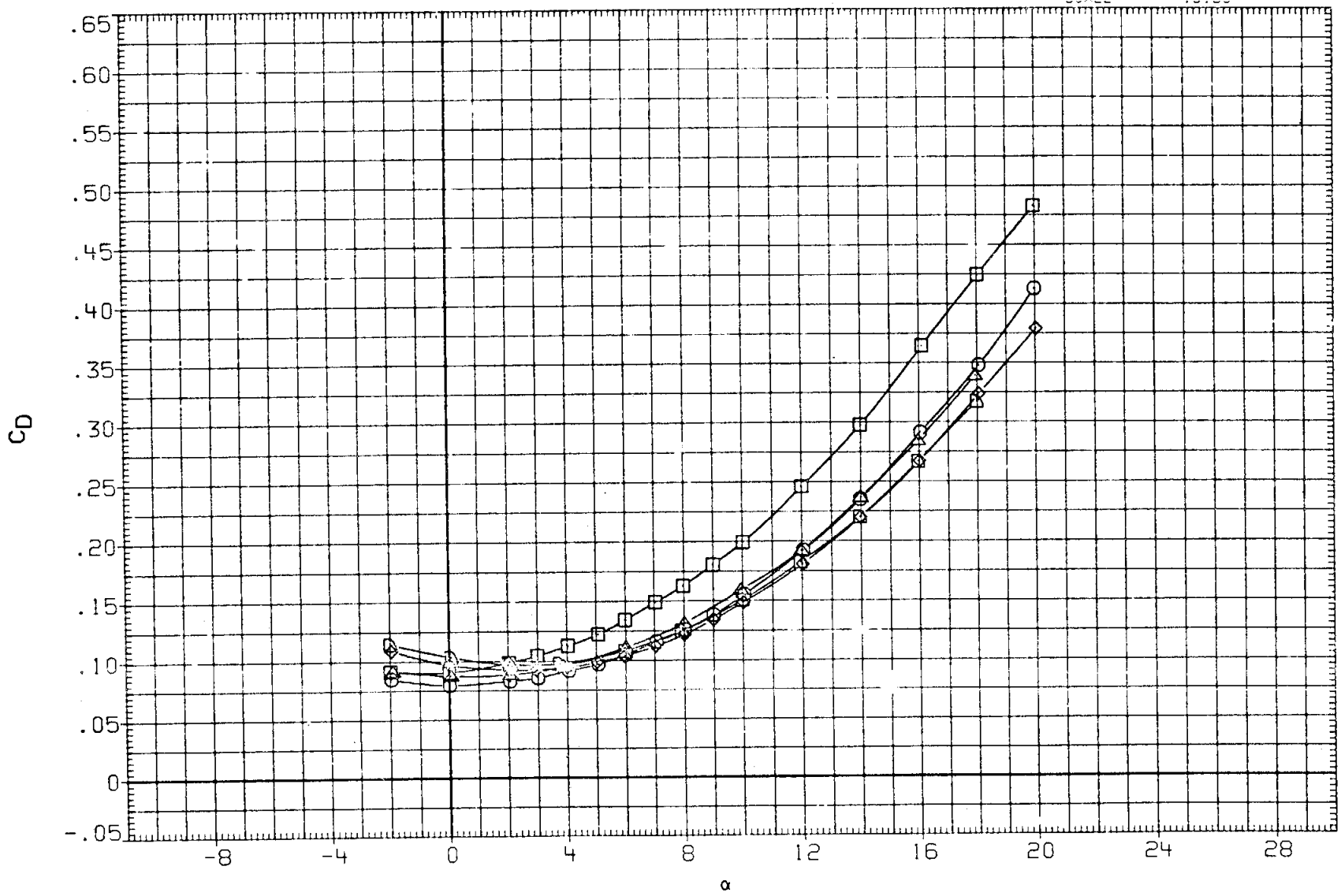

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

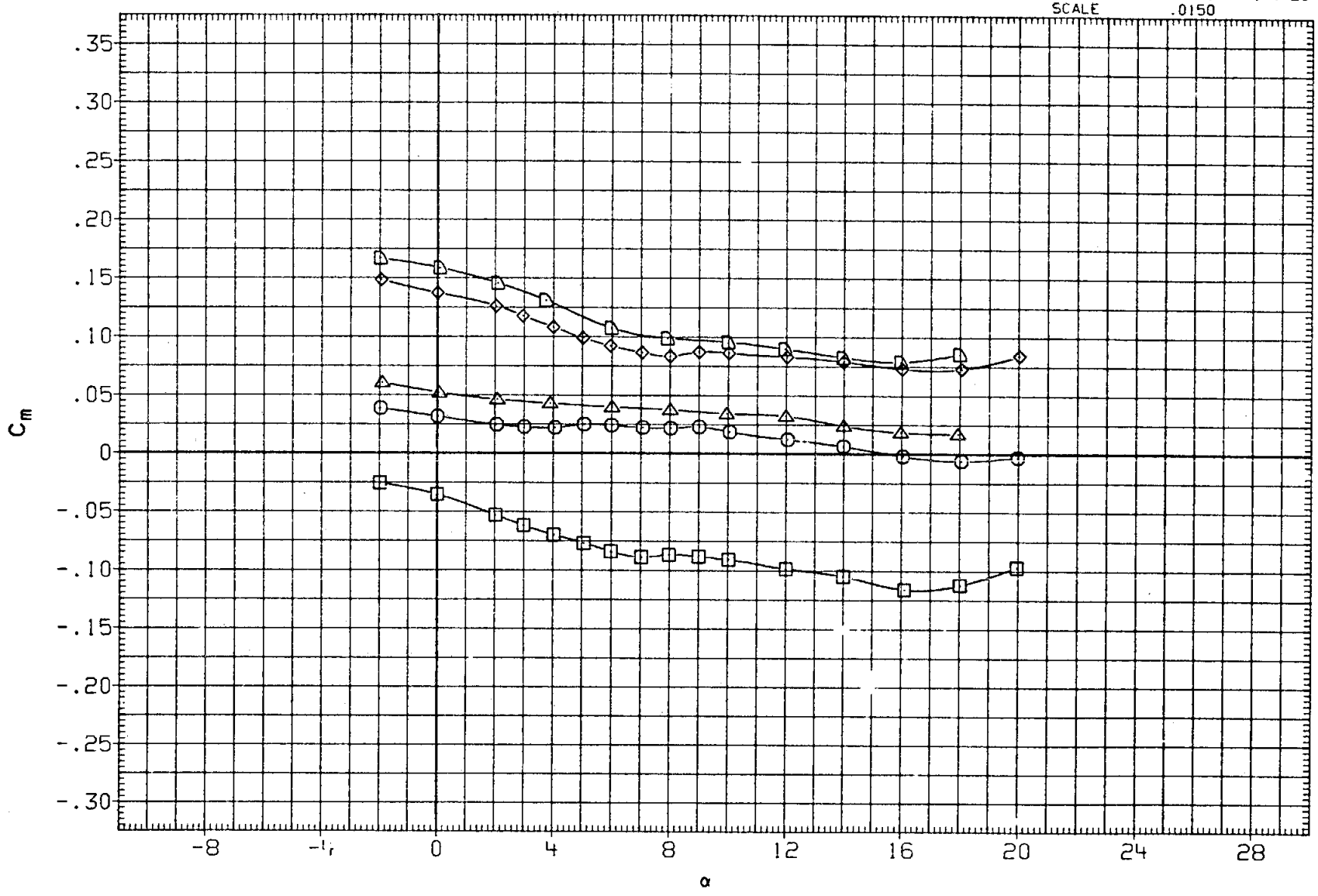

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

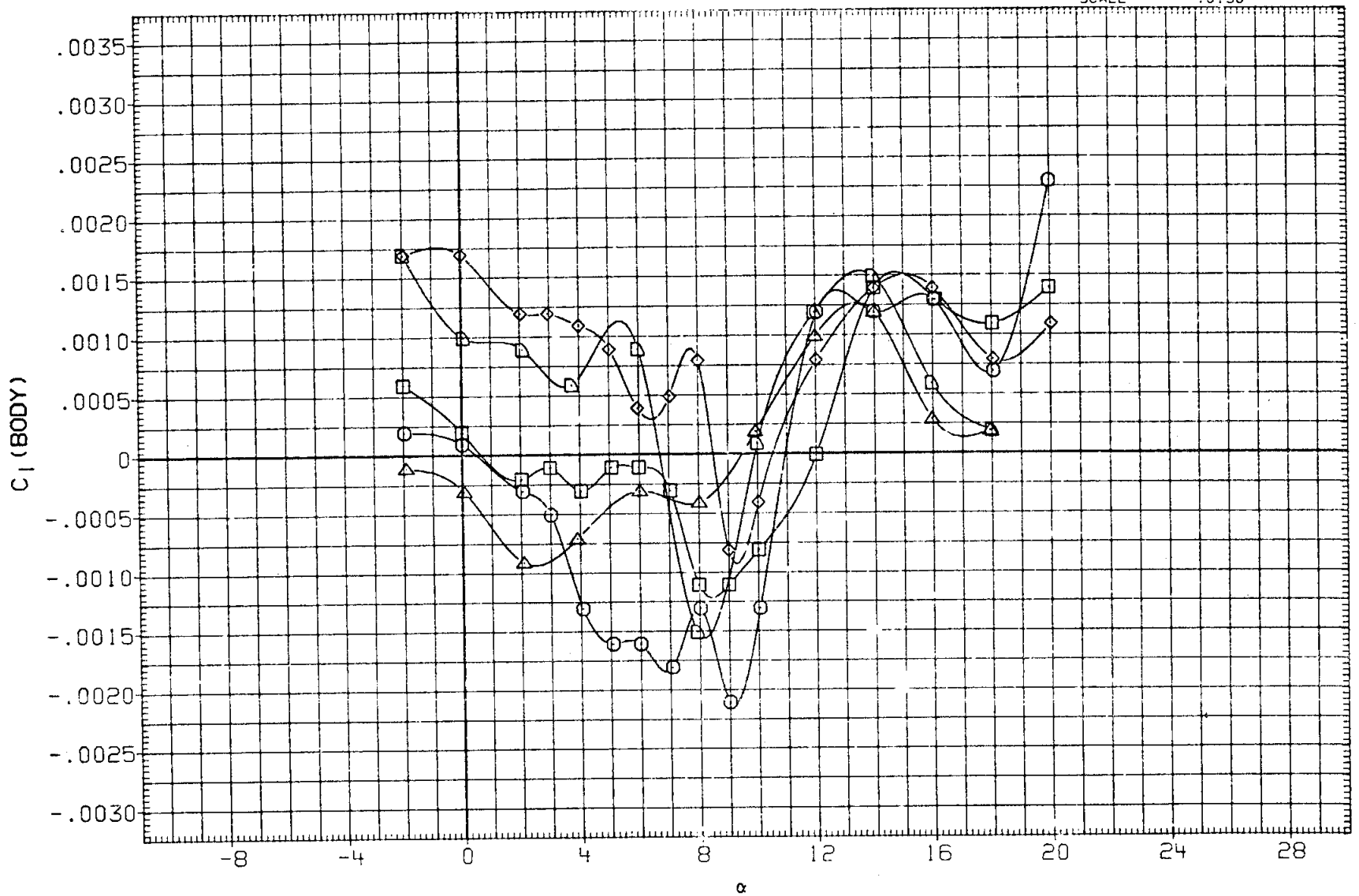

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

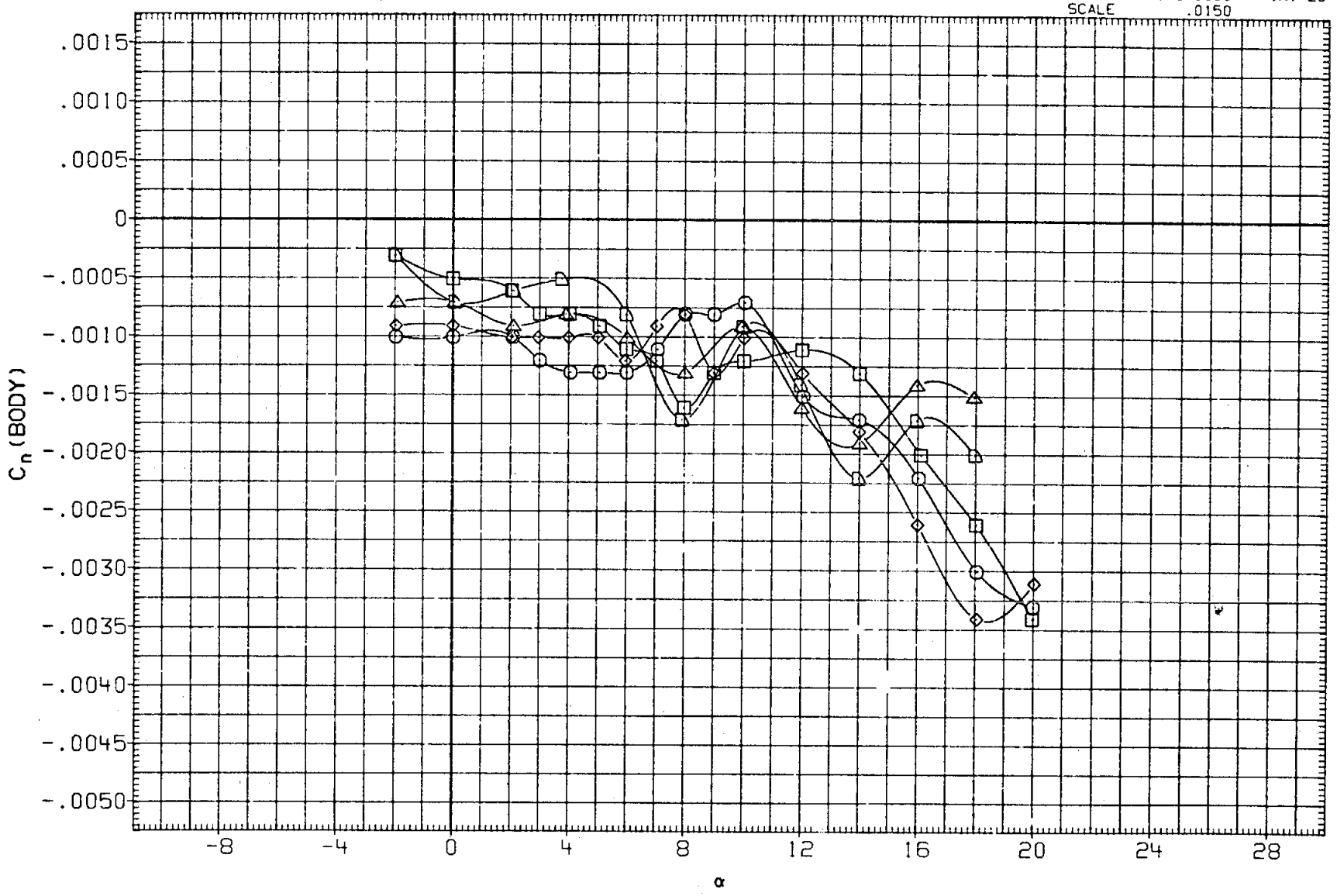

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	DATA NOT AVAILABLE	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

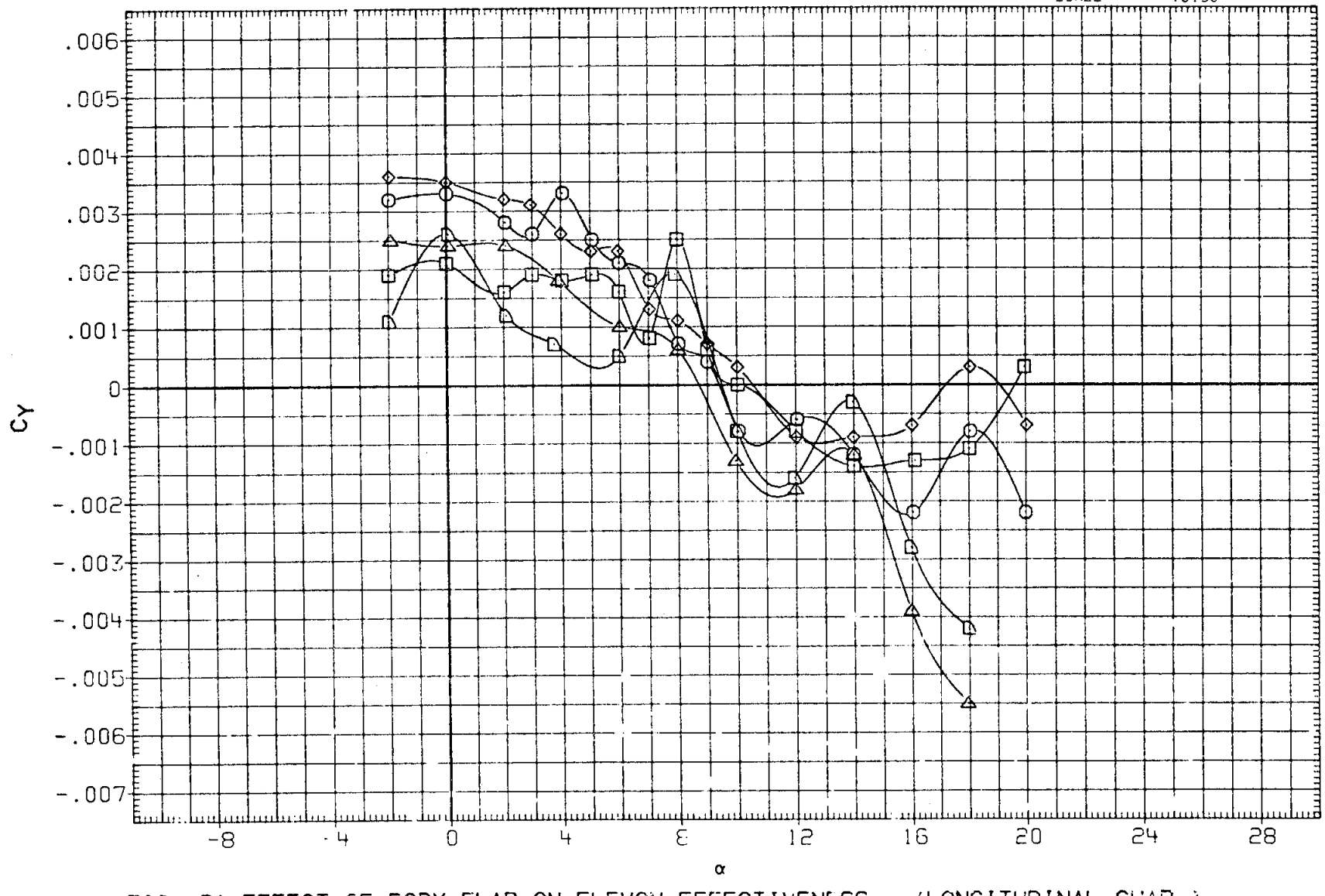

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R28148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R28146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

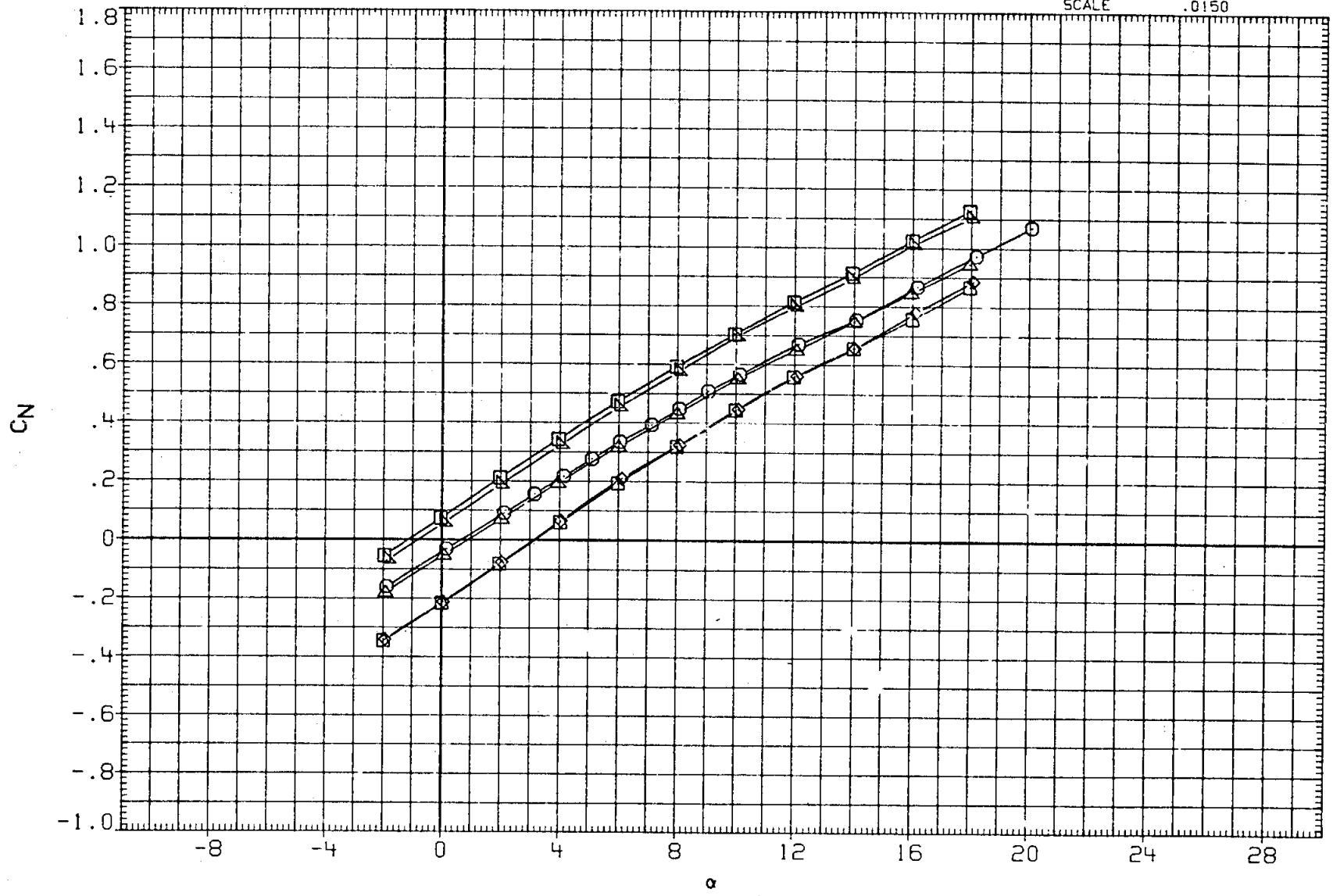

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

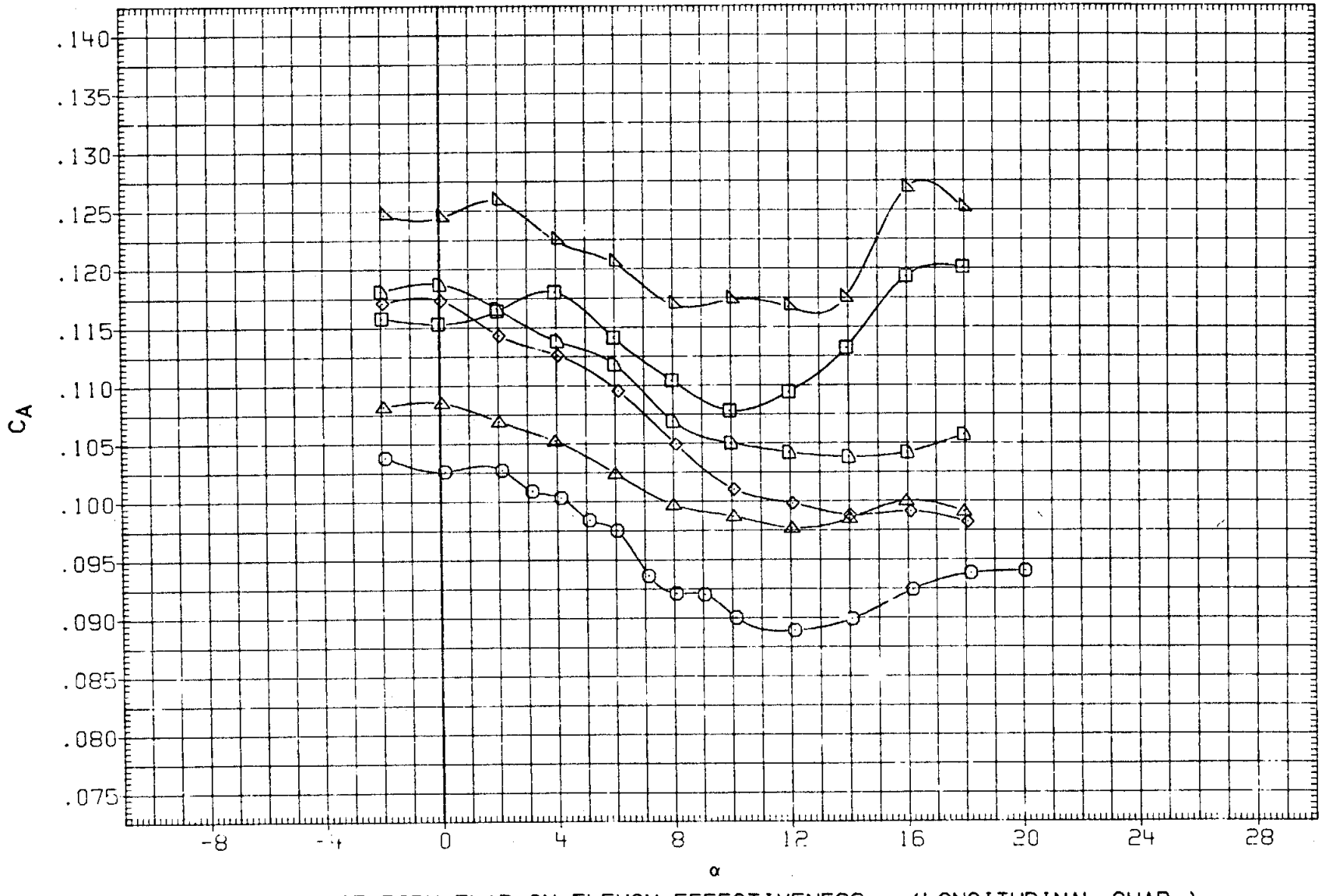

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	⬠	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

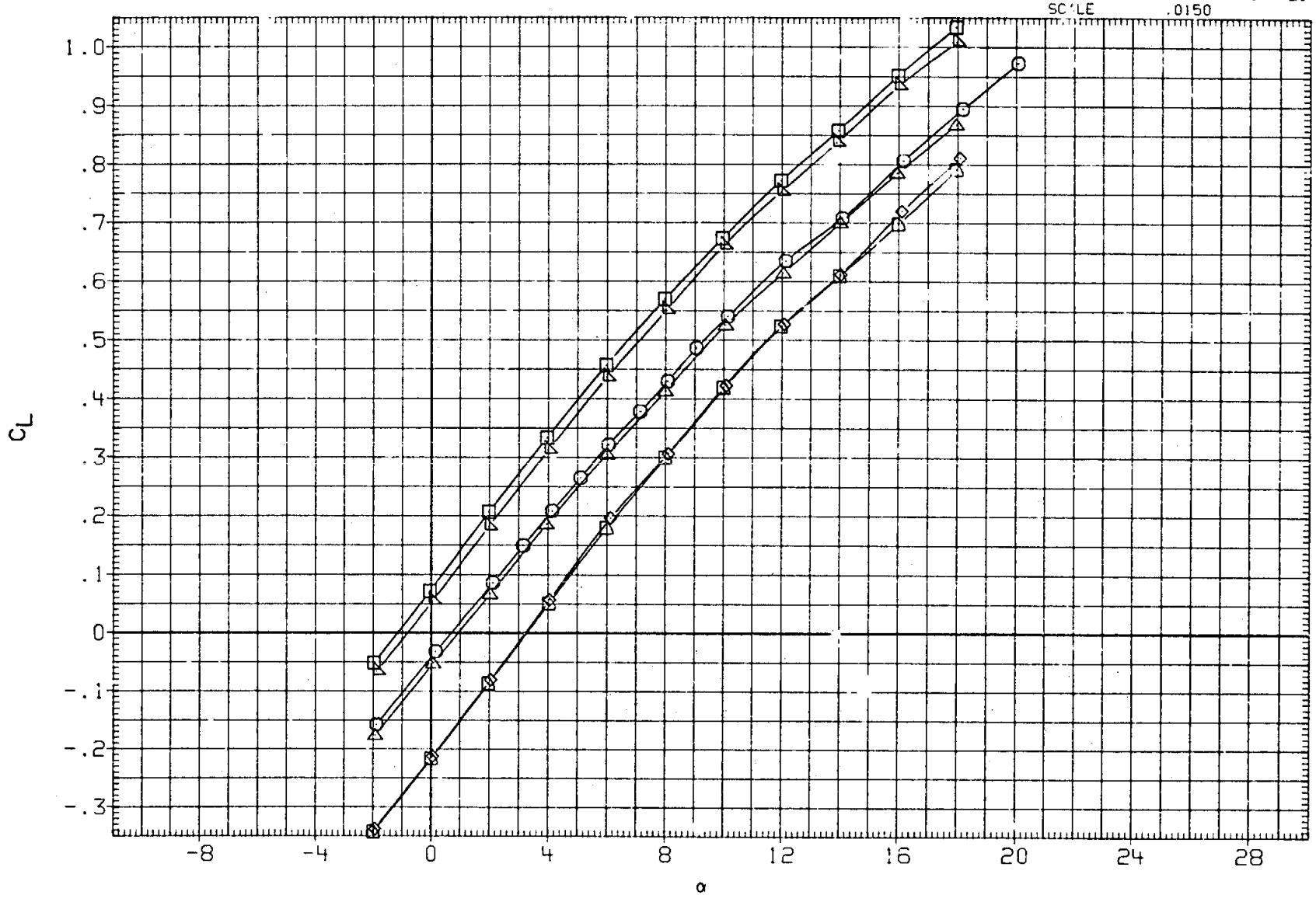

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	▷	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

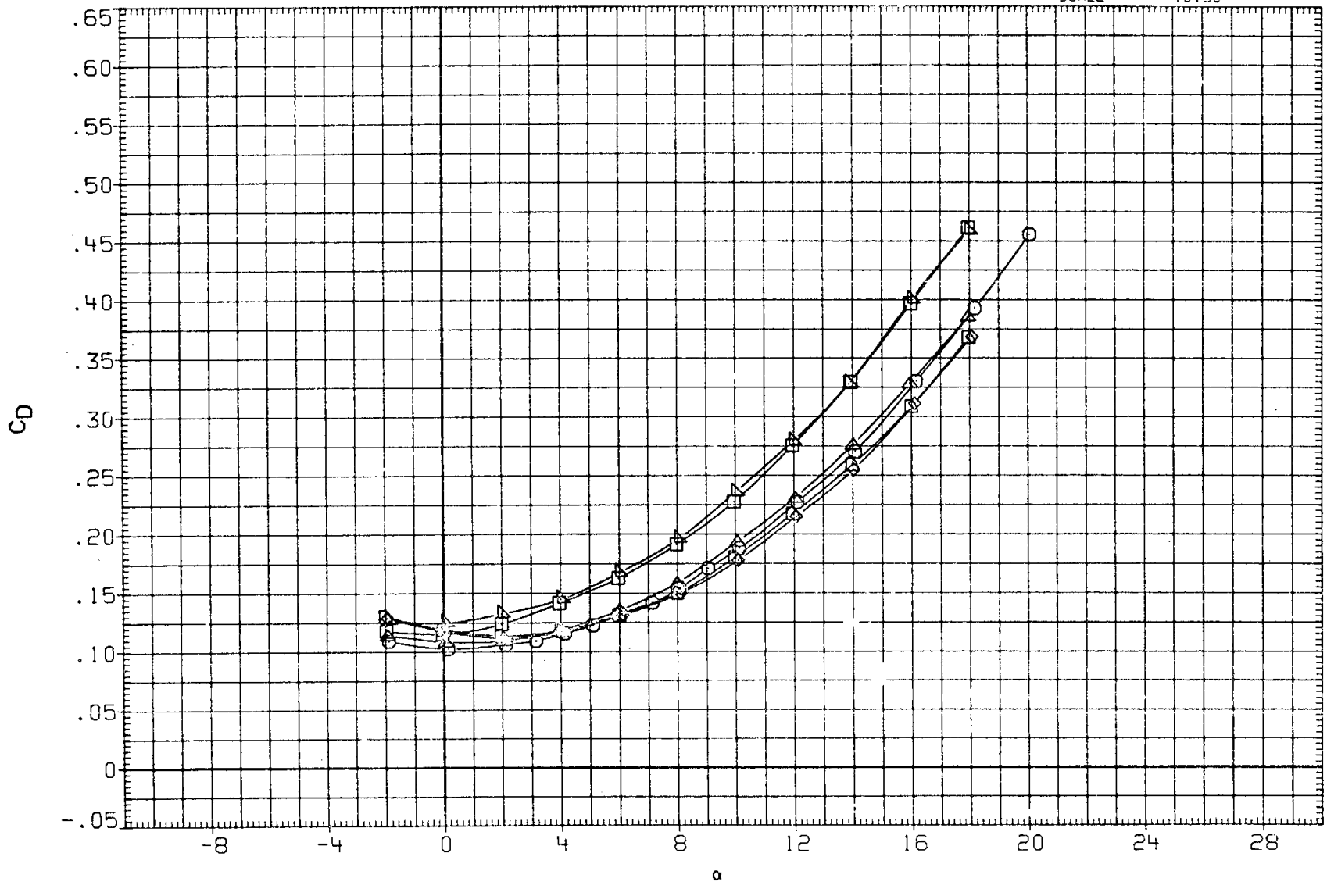

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R28148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R28146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

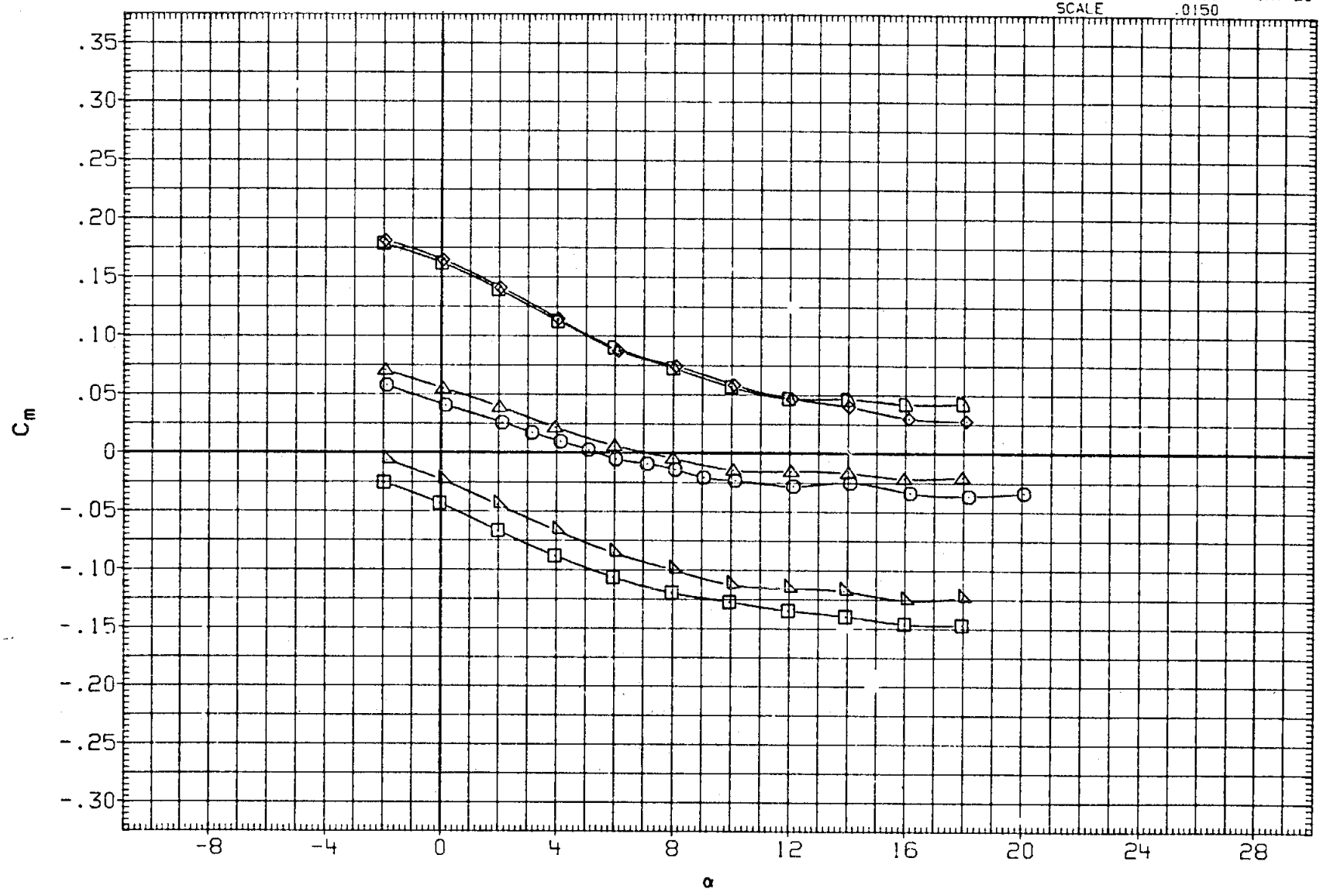

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

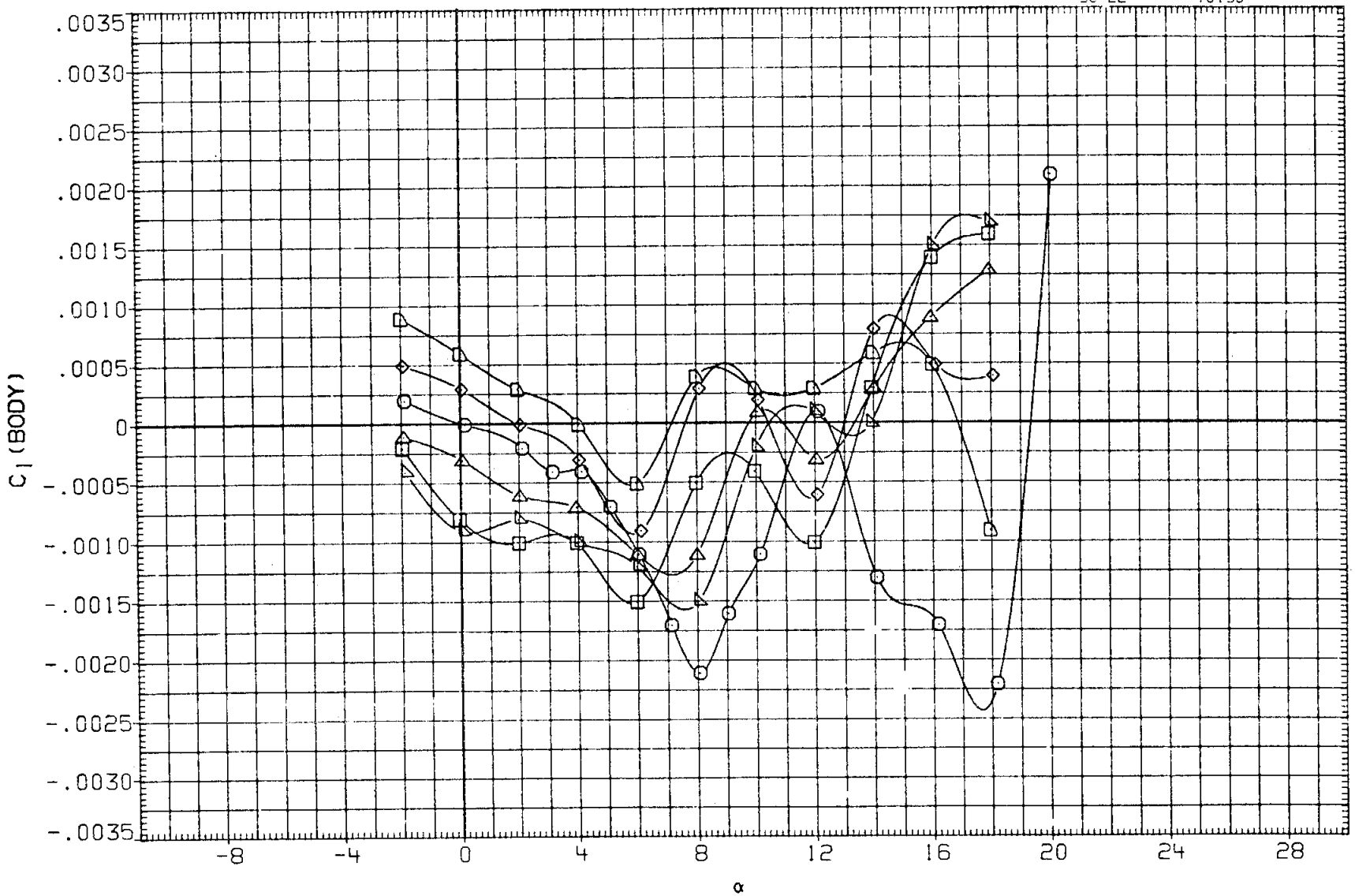

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R28148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R28146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

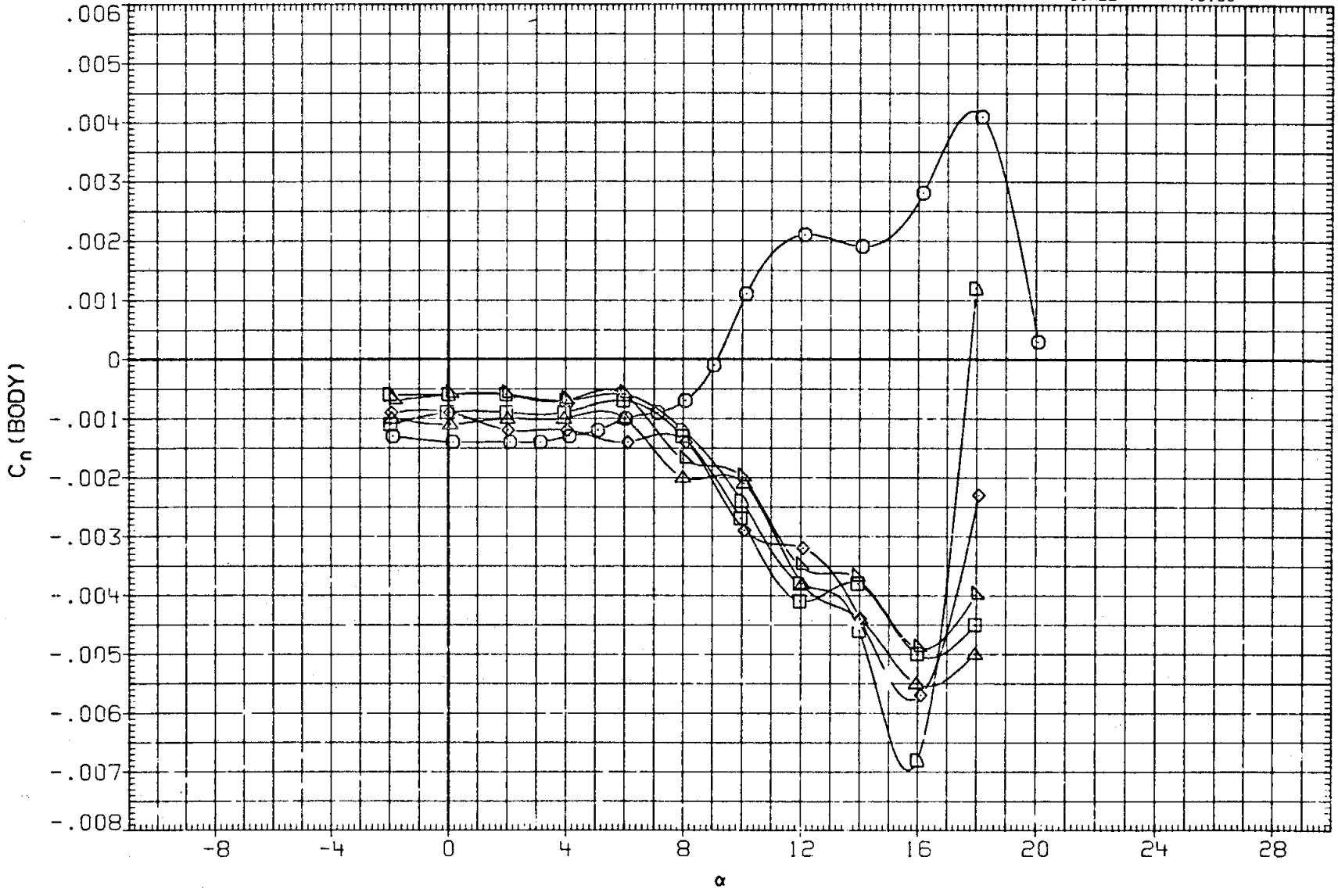

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◁	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	▷	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

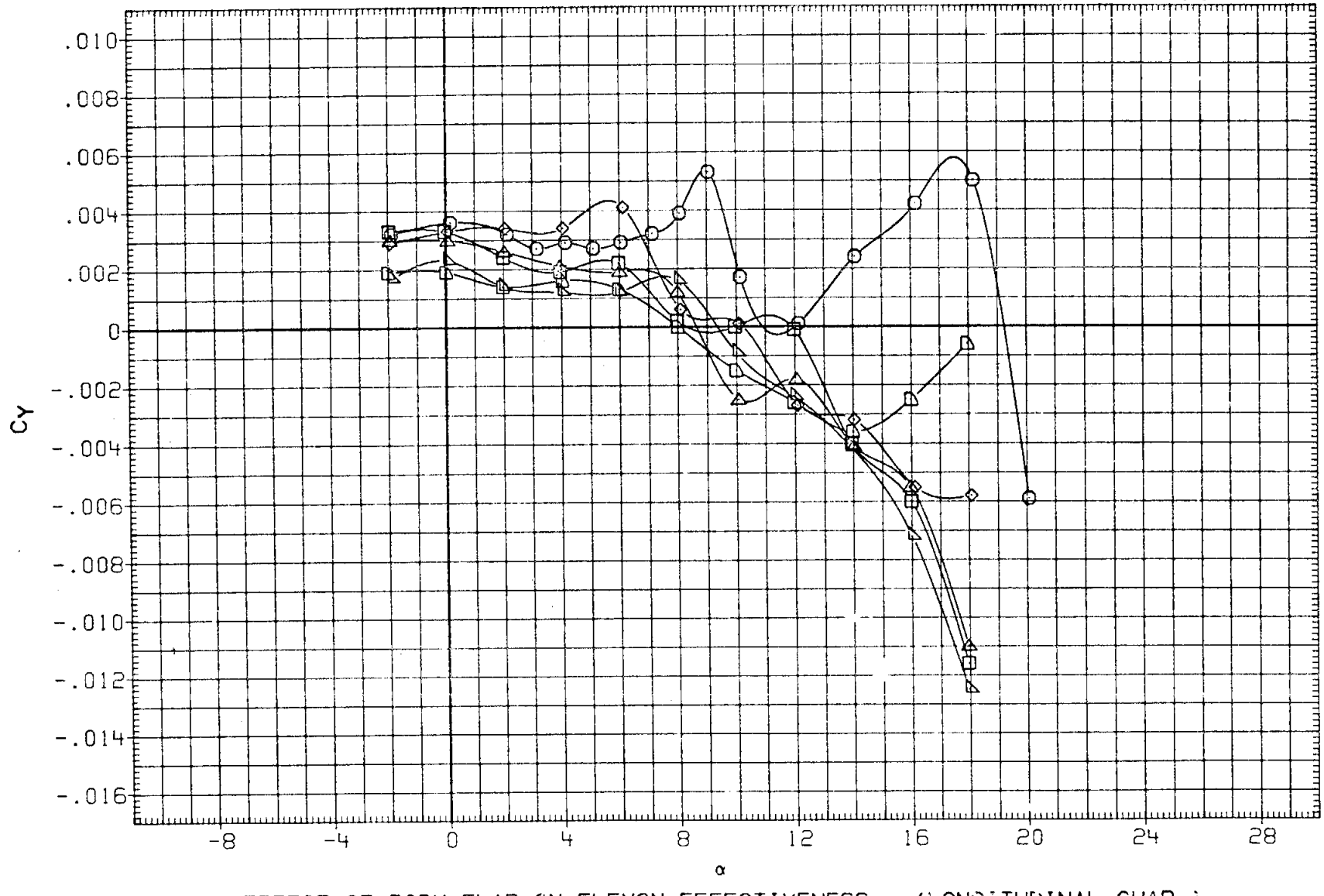

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

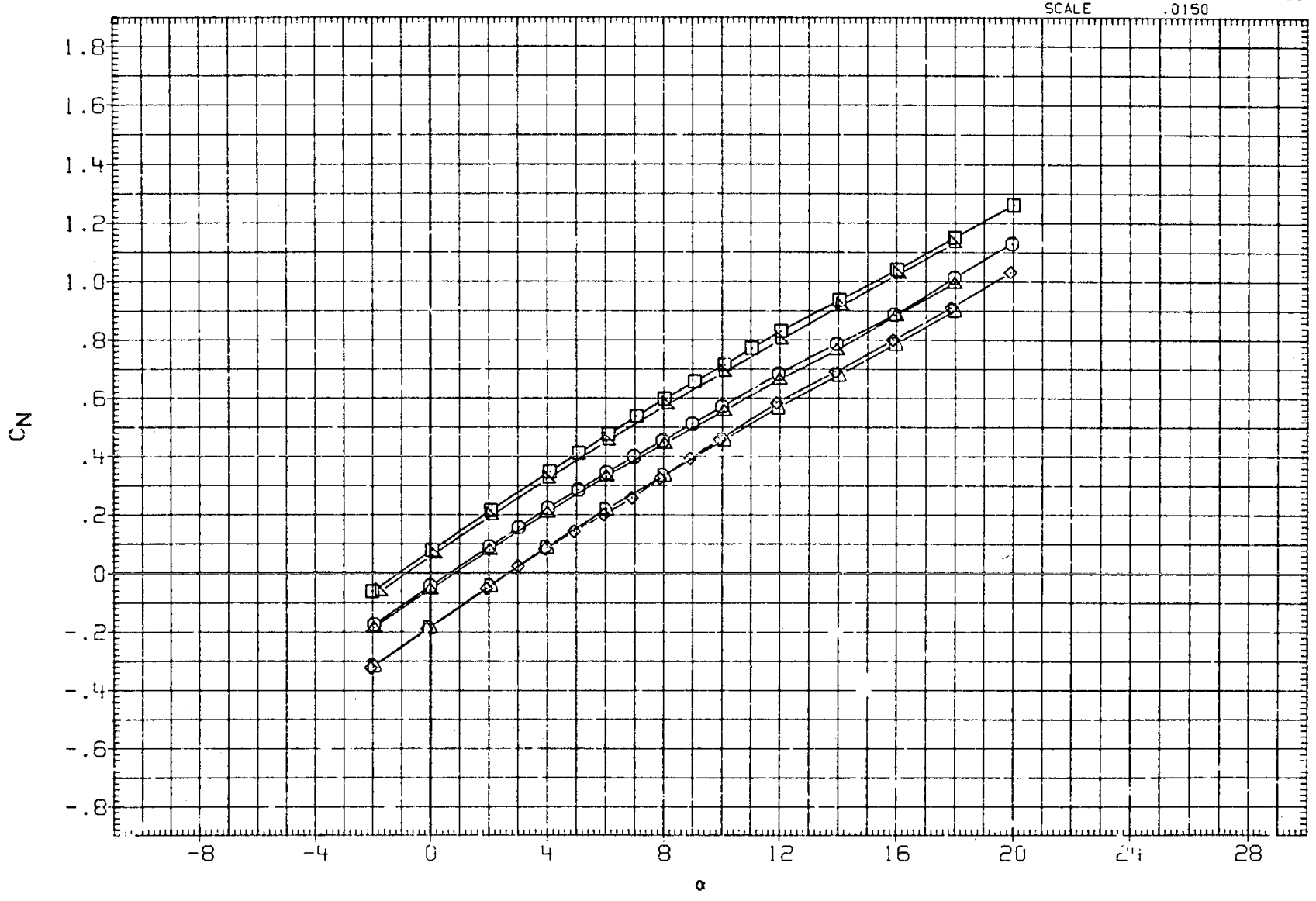

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	0150	

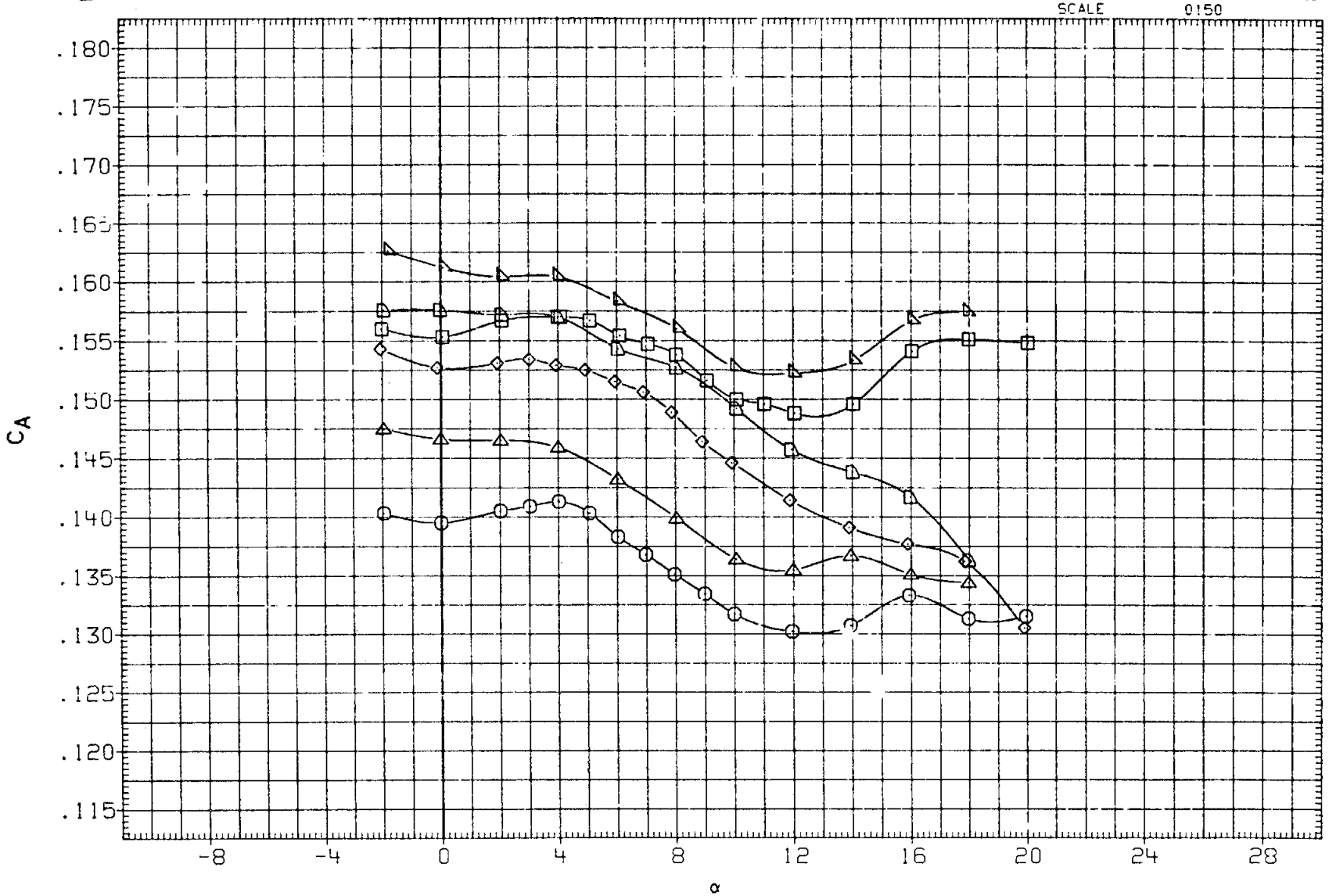

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

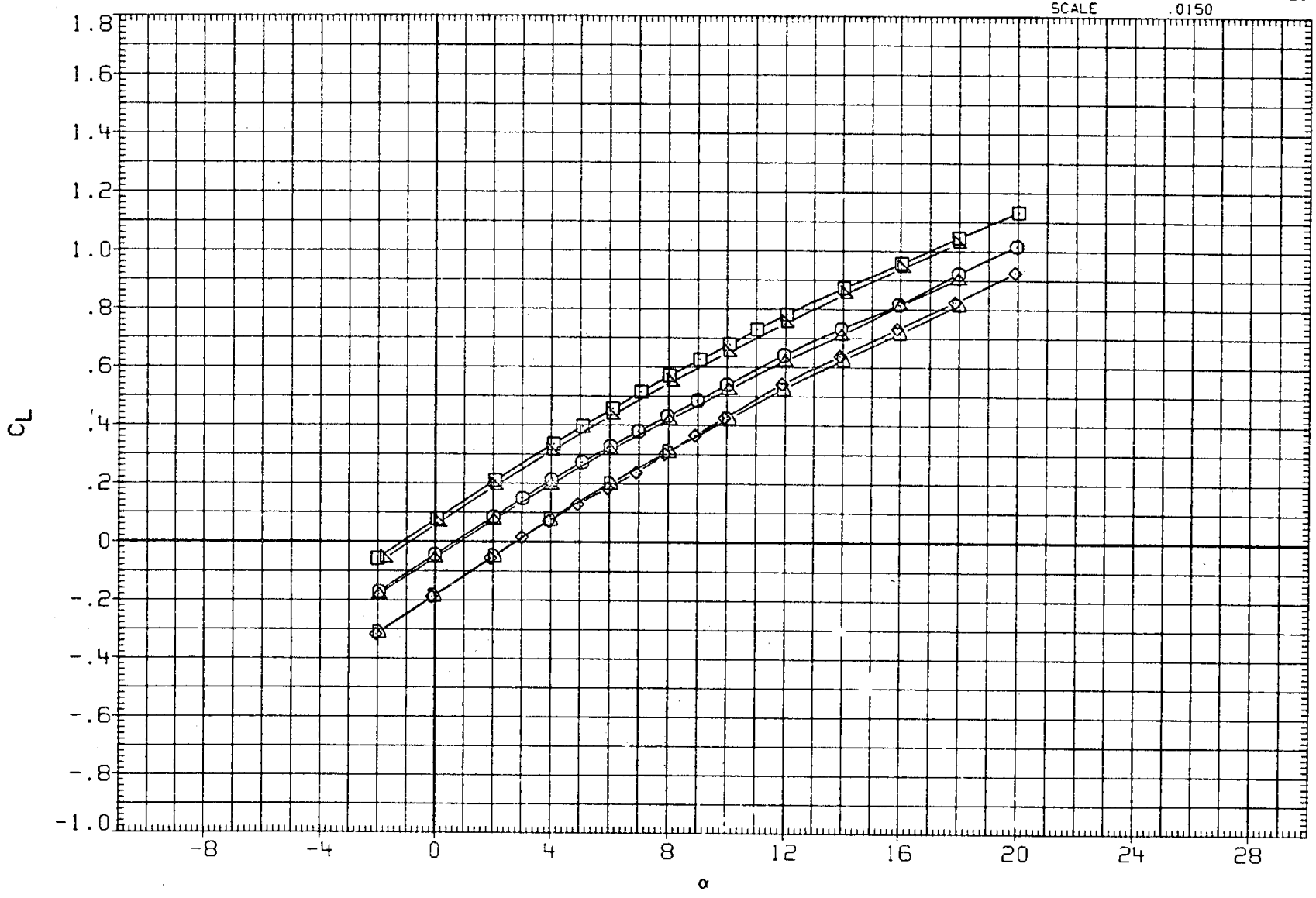

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

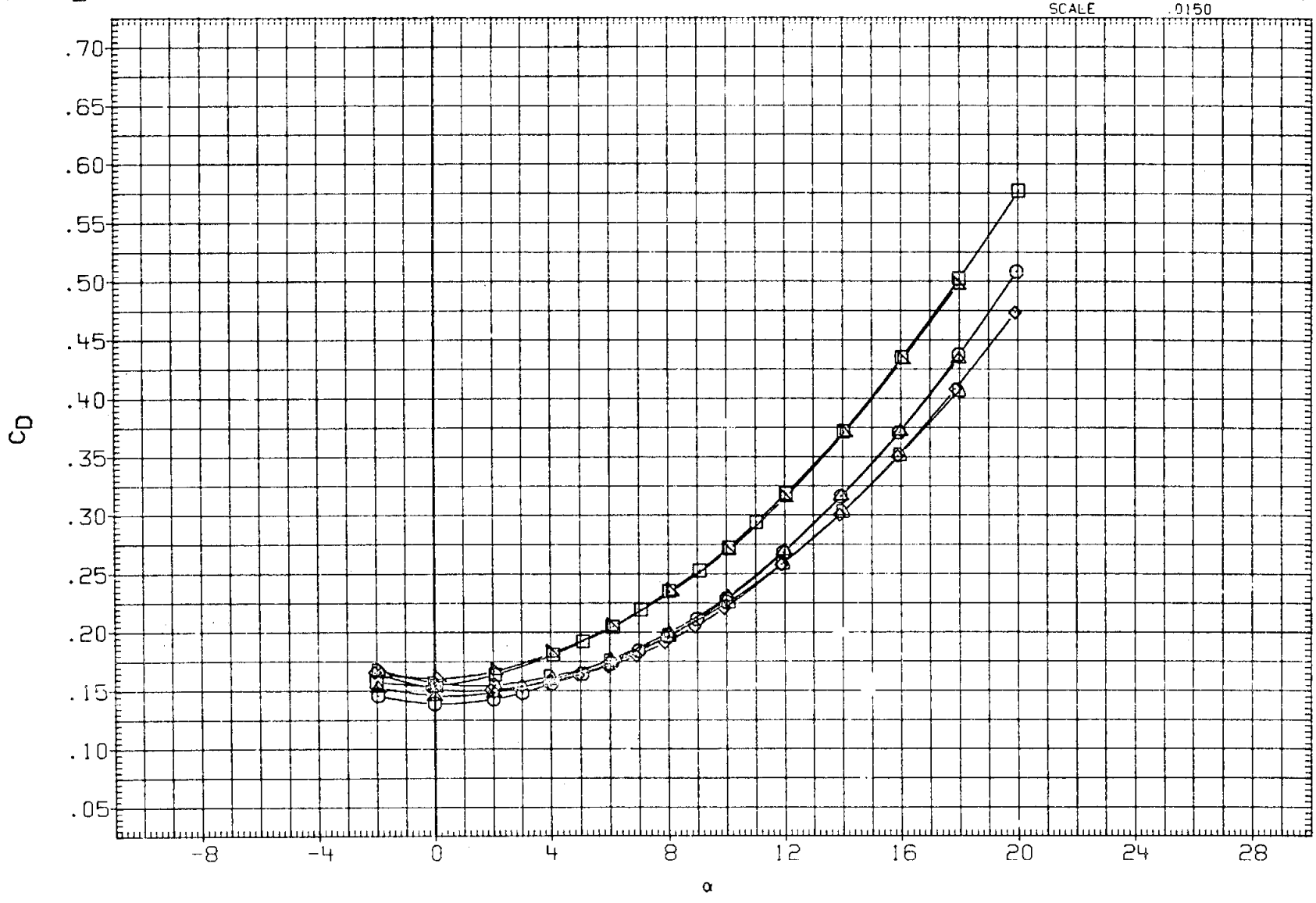

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

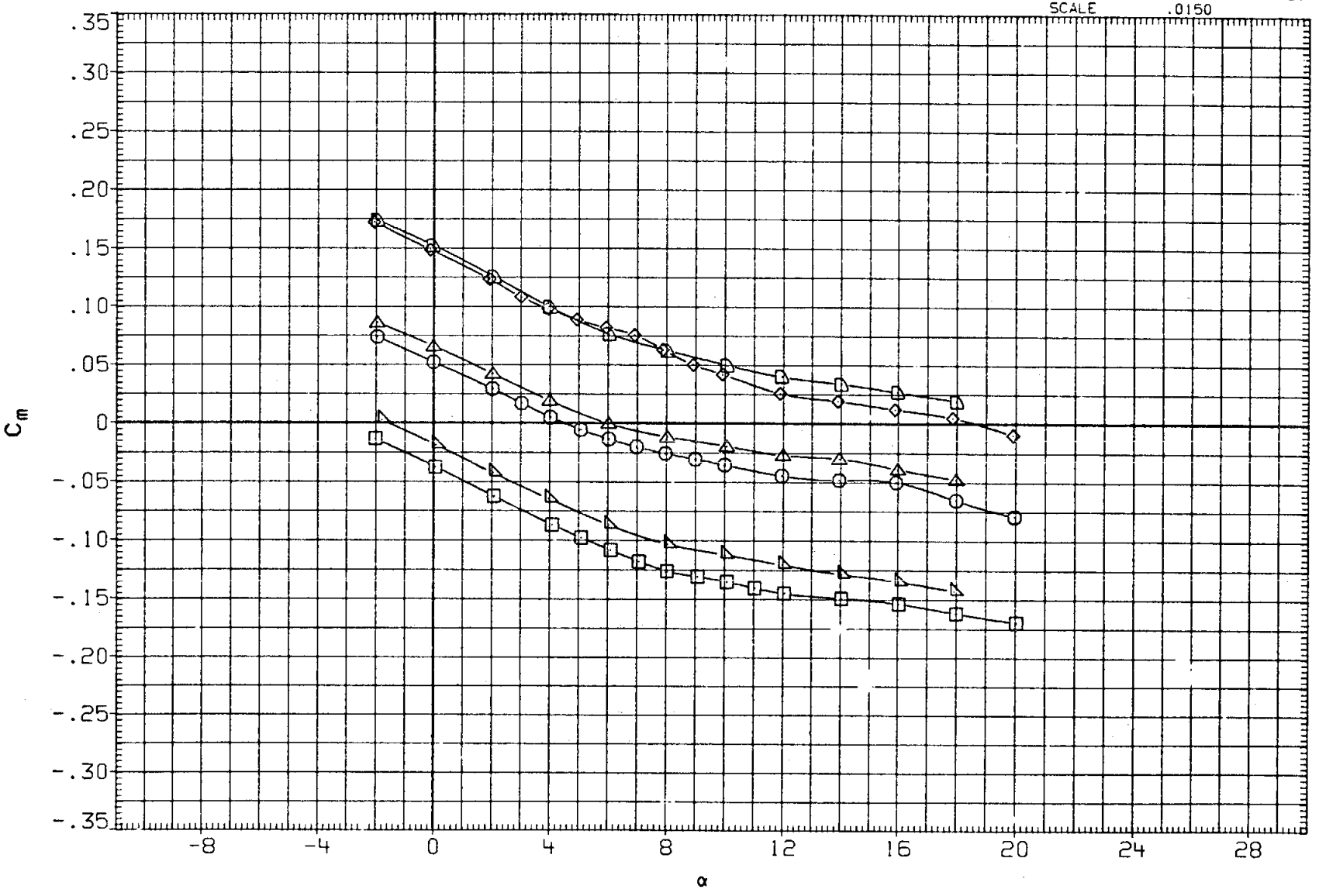

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	D	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

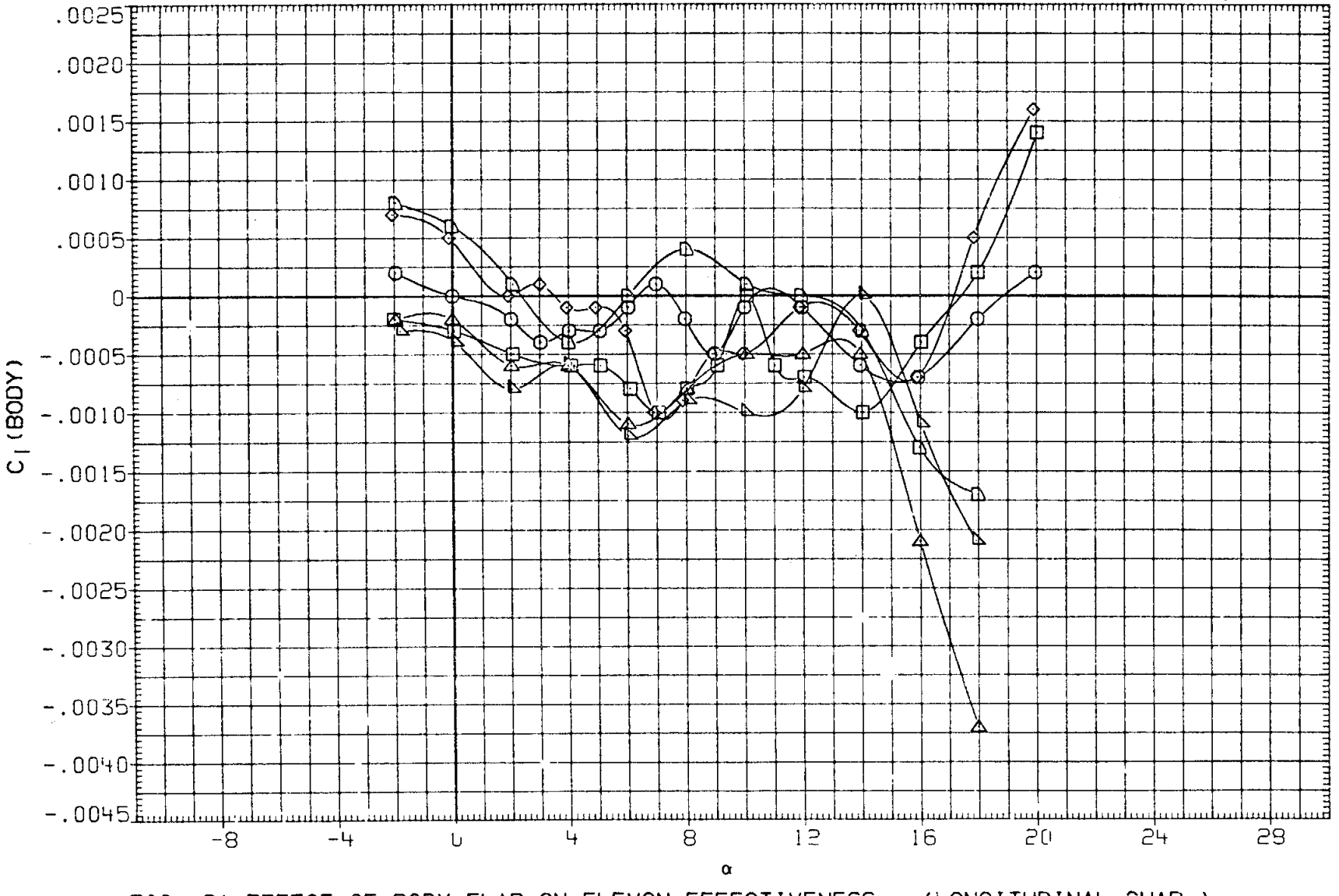

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

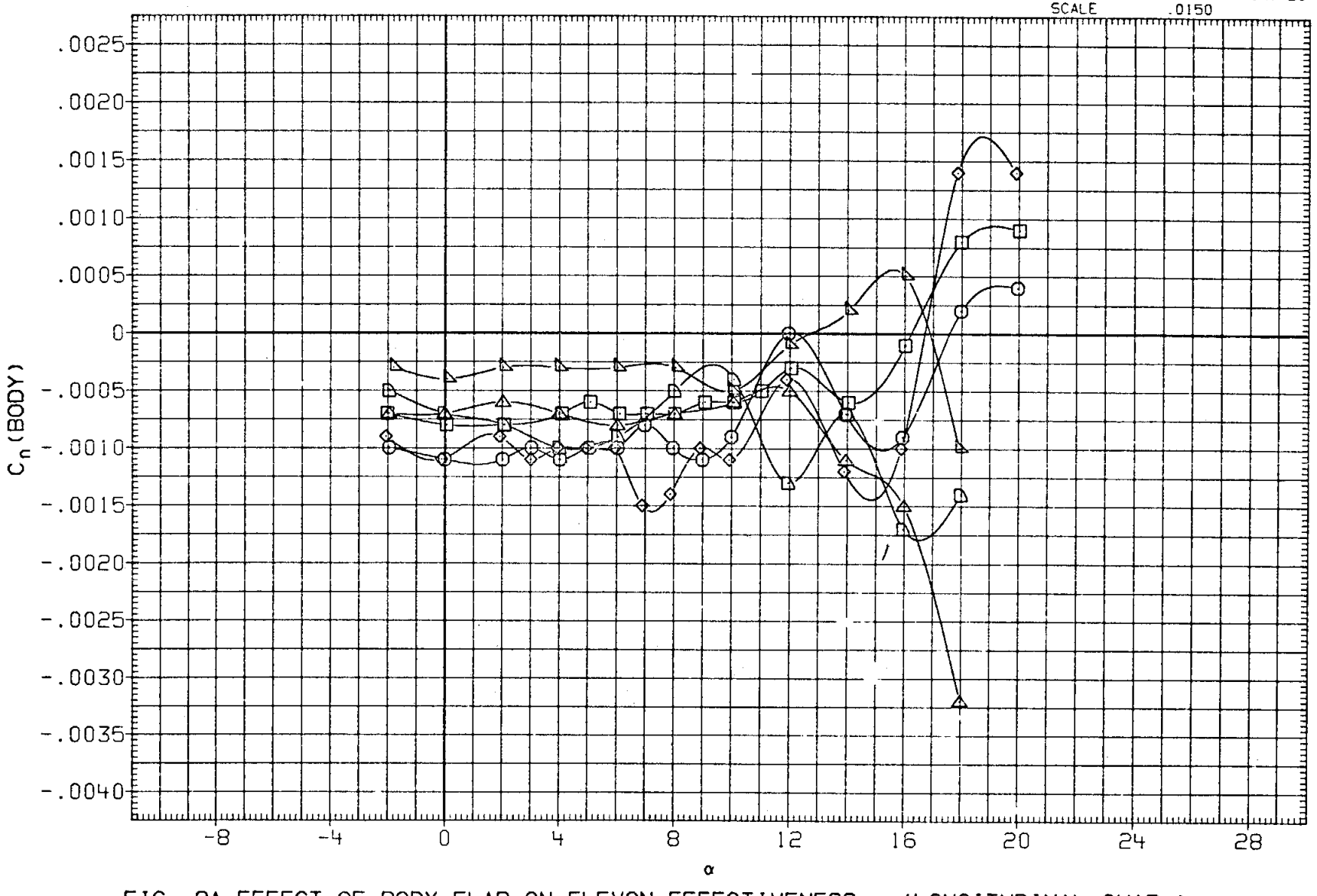

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B145	△	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B148	◺	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	10.000
R2B146	◻	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

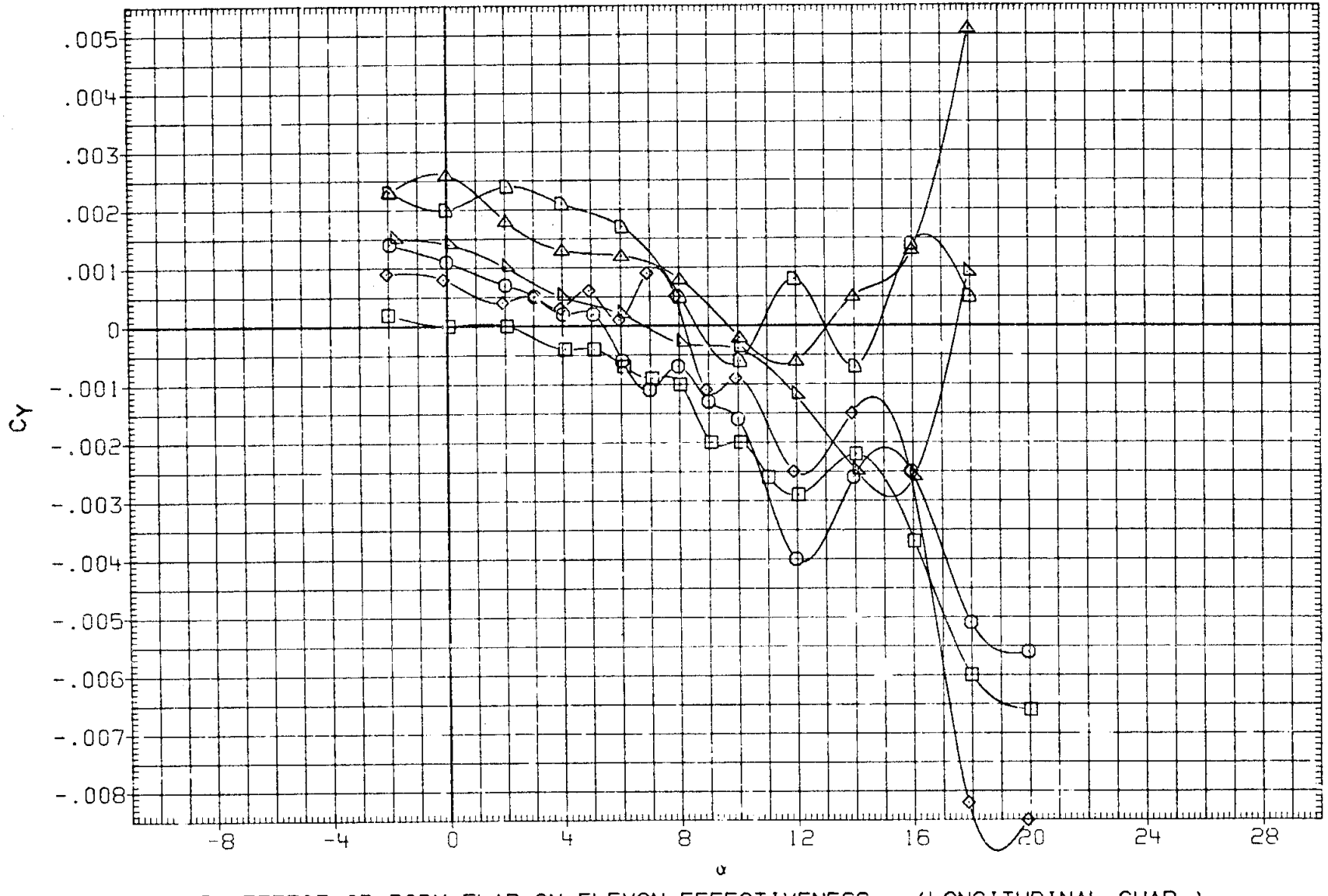

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B001	○	ARC 200-1 11(LA77) OV101
R2B141	□	ARC 200-1 11(LA77) OV101
R2B142	◇	ARC 200-1 11(LA77) OV101

SPDBRK	BDFLAP	AILRON	ELEVON
25.000	.000	.000	.000
25.000	-11.700	.000	.000
25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

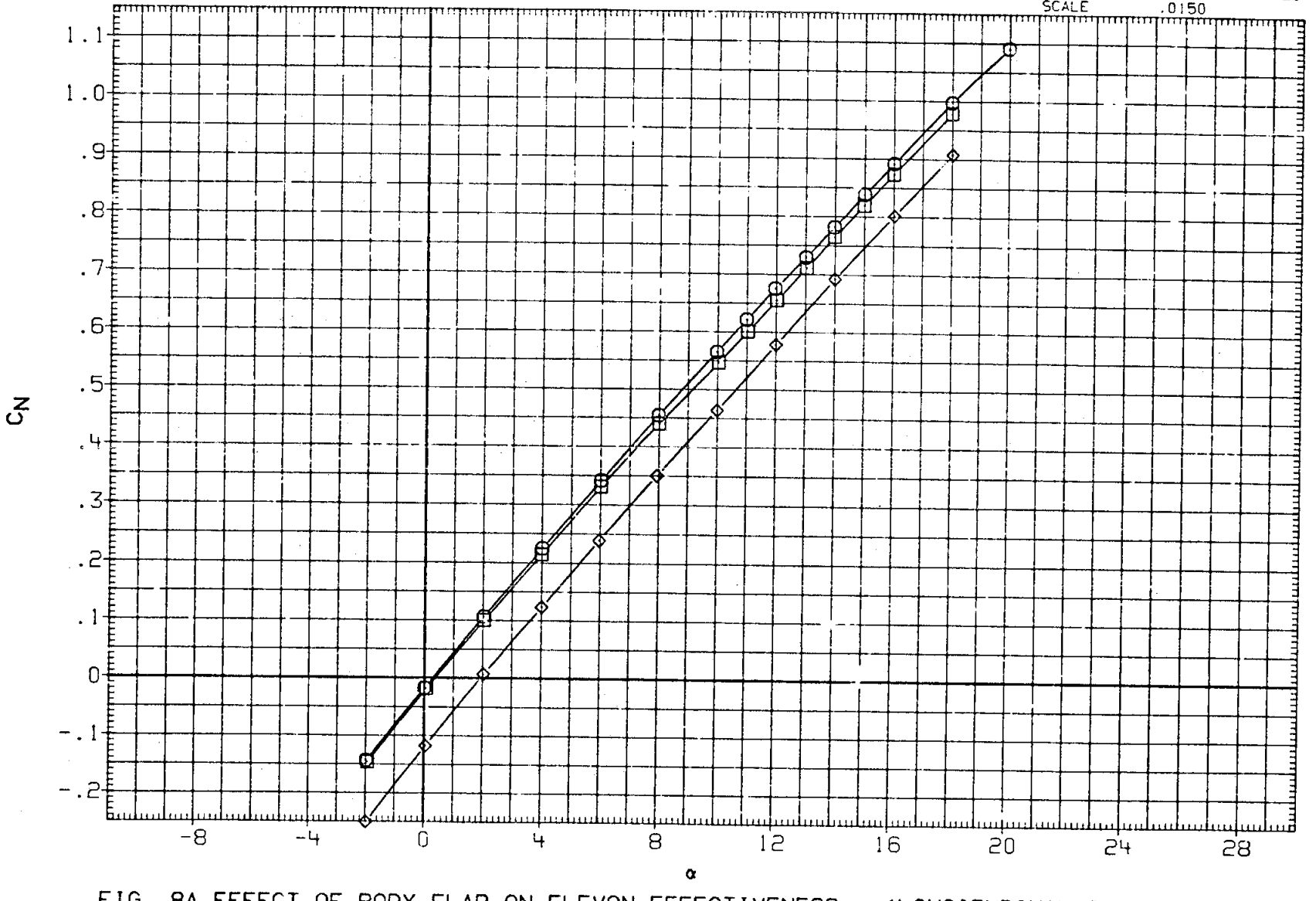

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

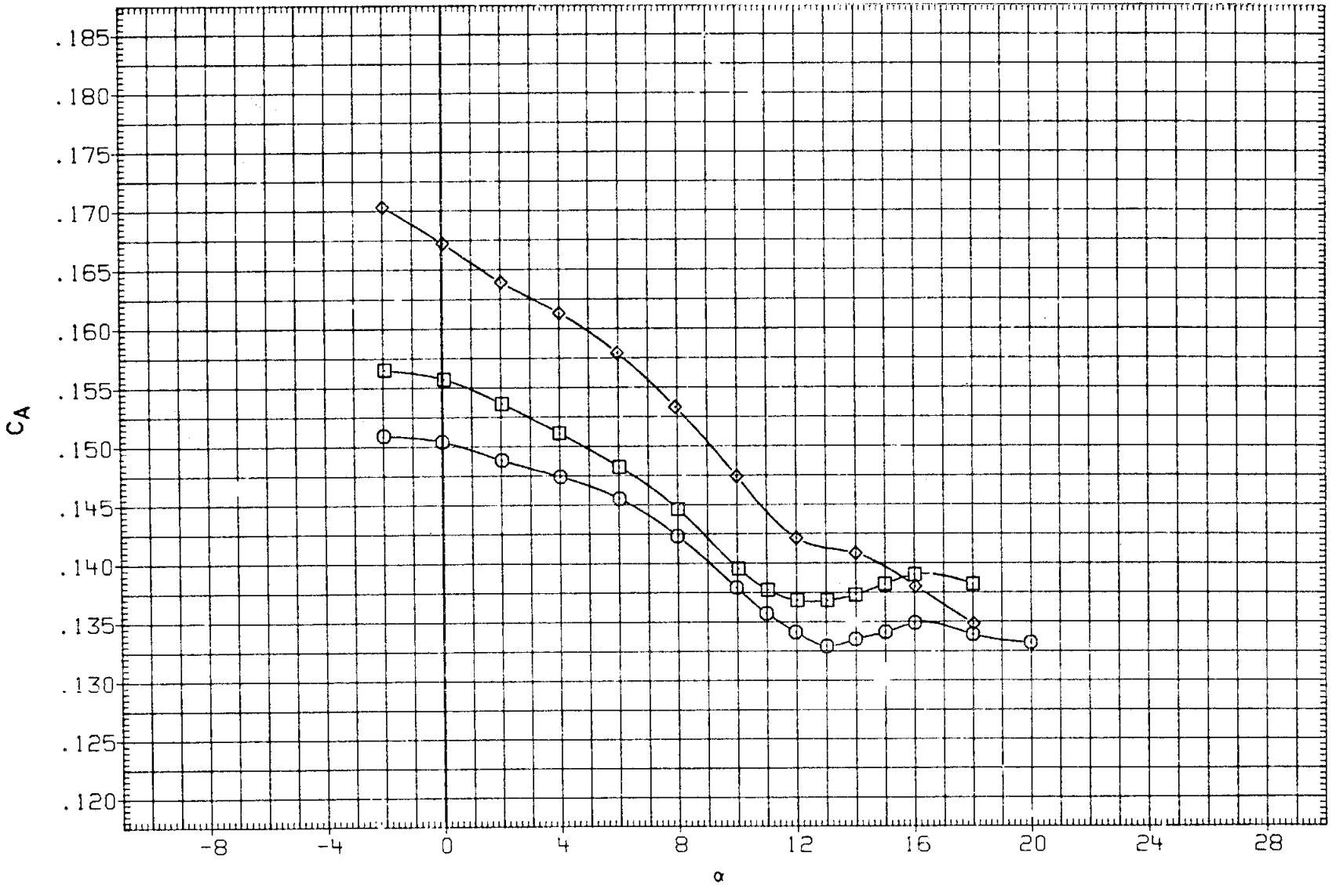

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

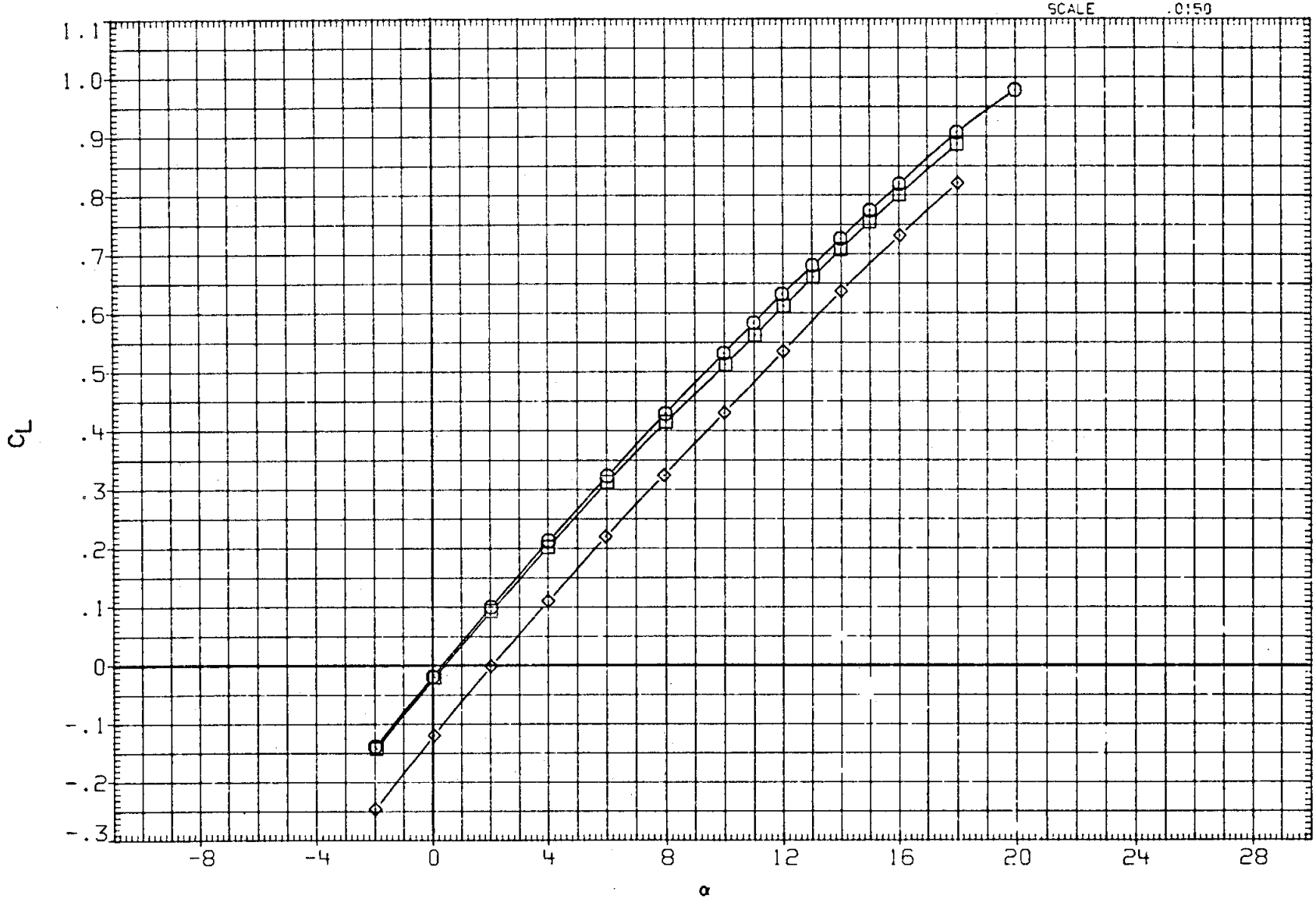

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B301	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

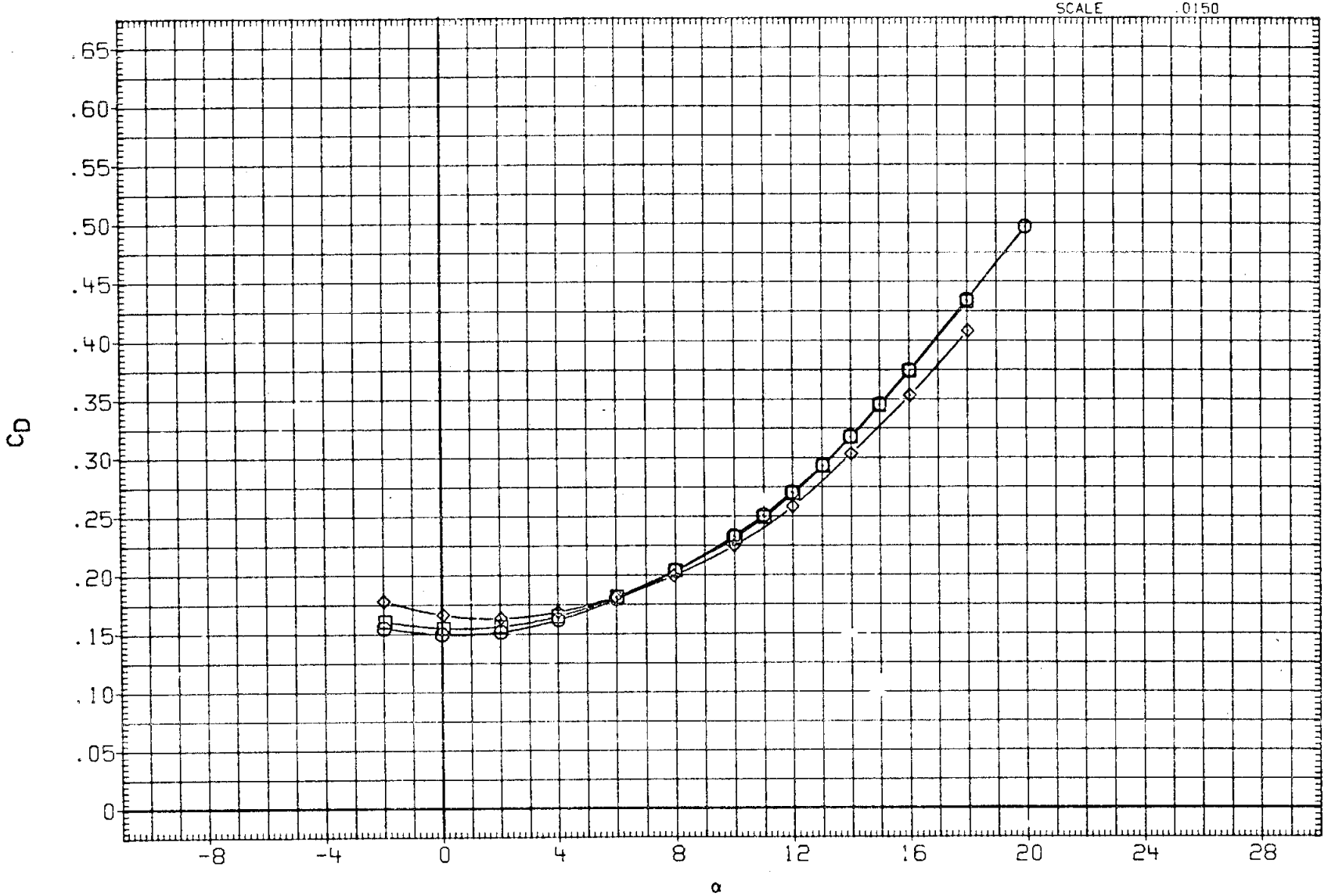

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

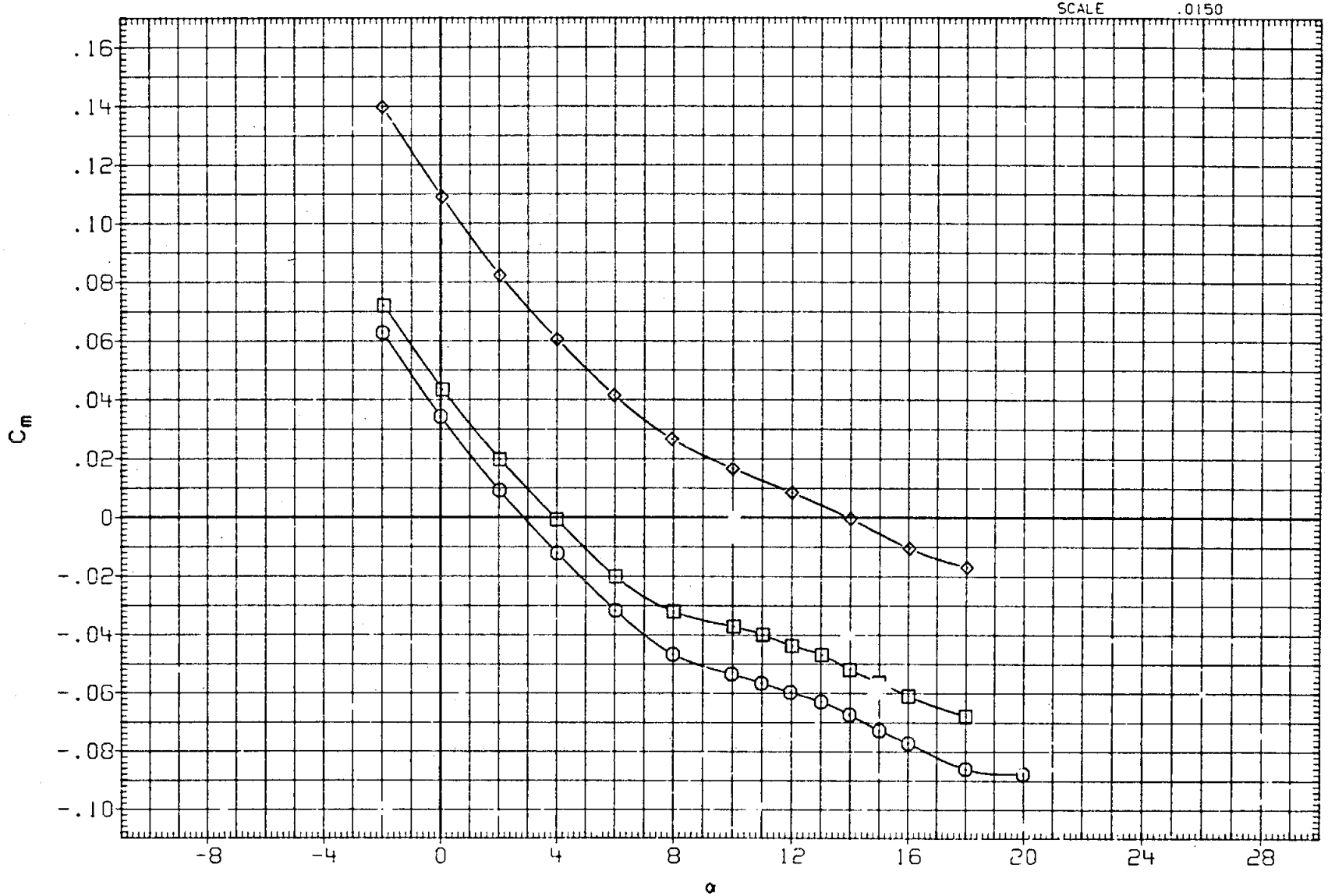

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

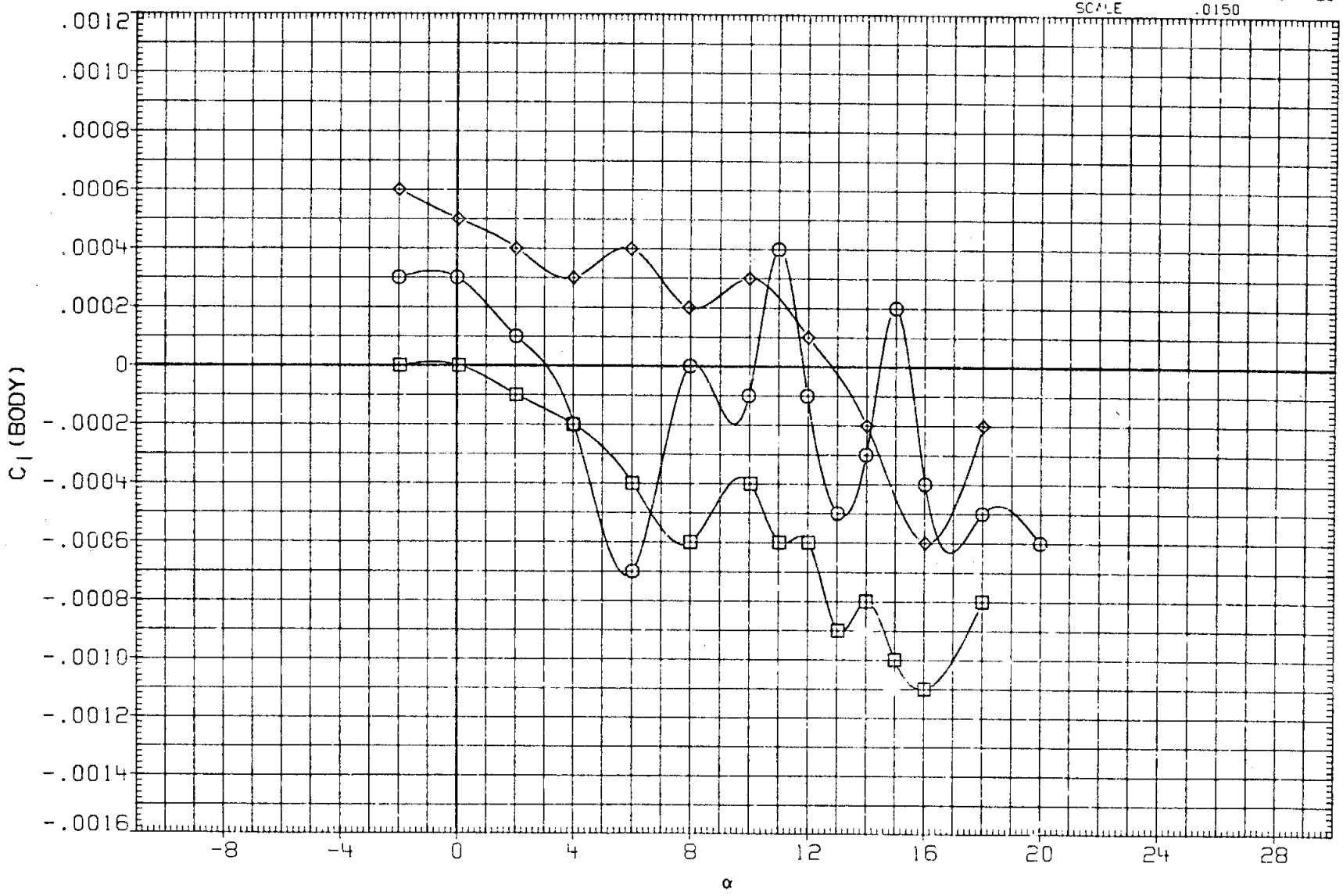

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R2B142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

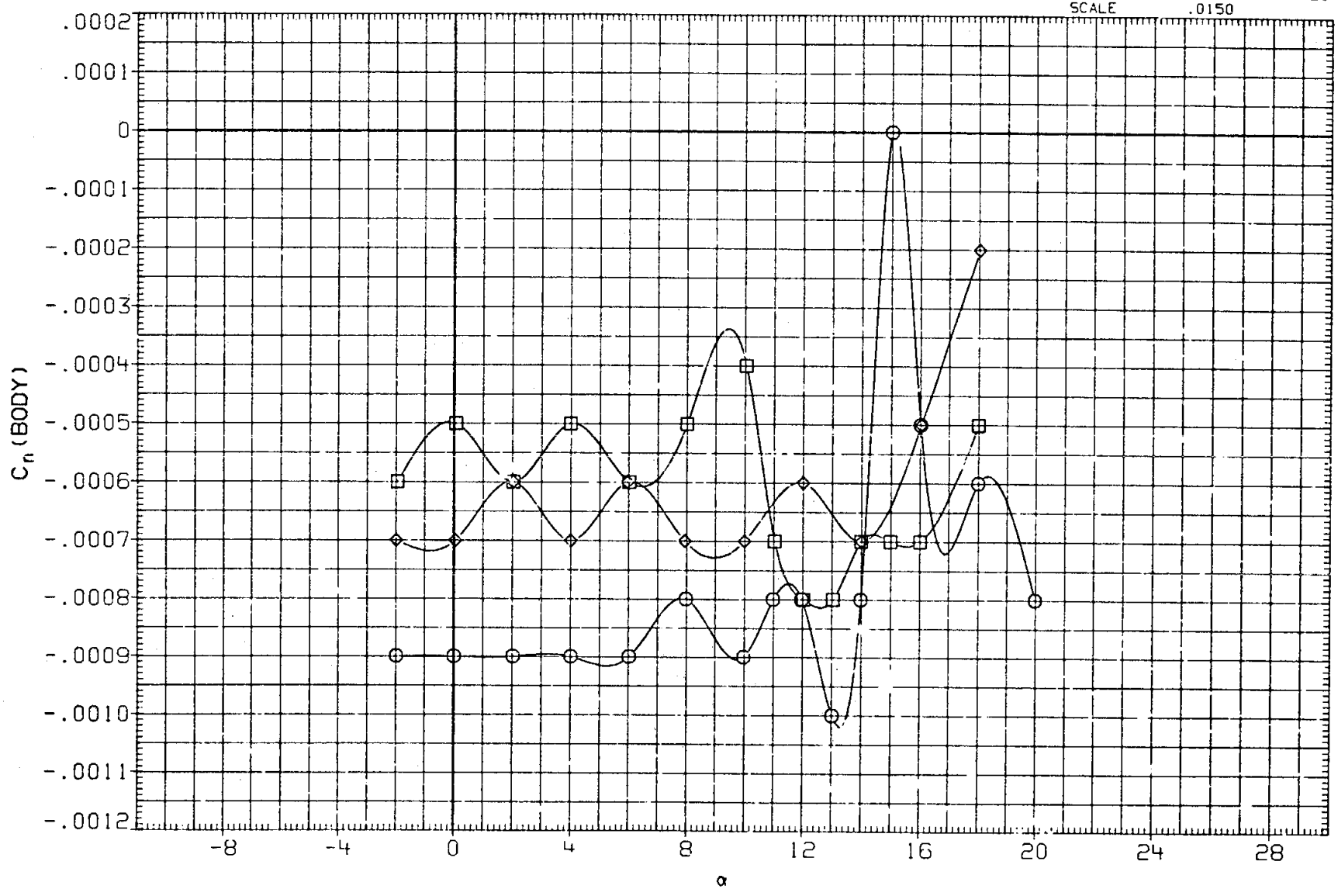

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28141	□	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	.000
R28142	◇	ARC 200-1 11(LA77) OV101	25.000	-11.700	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

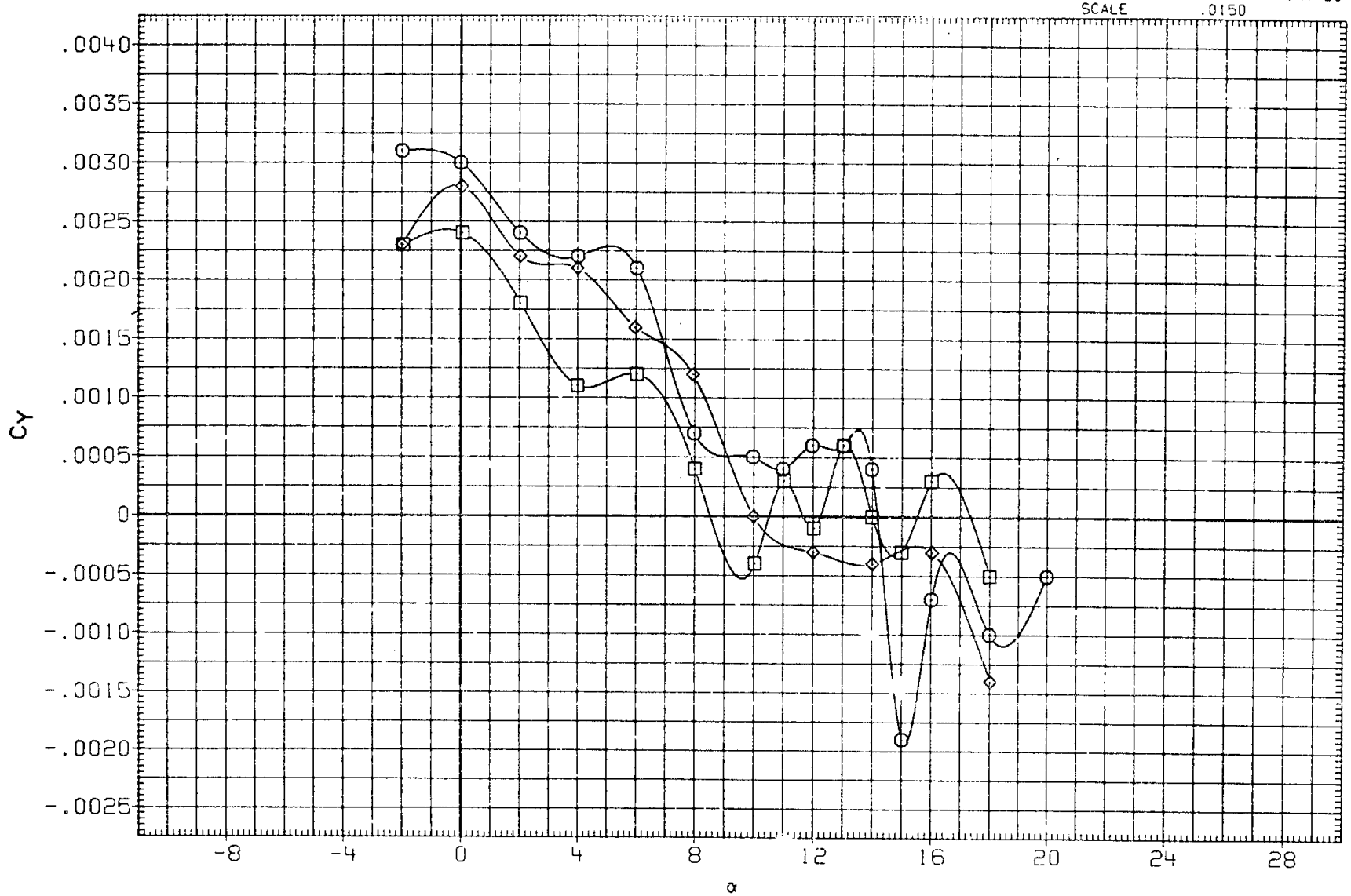

FIG. 8A EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

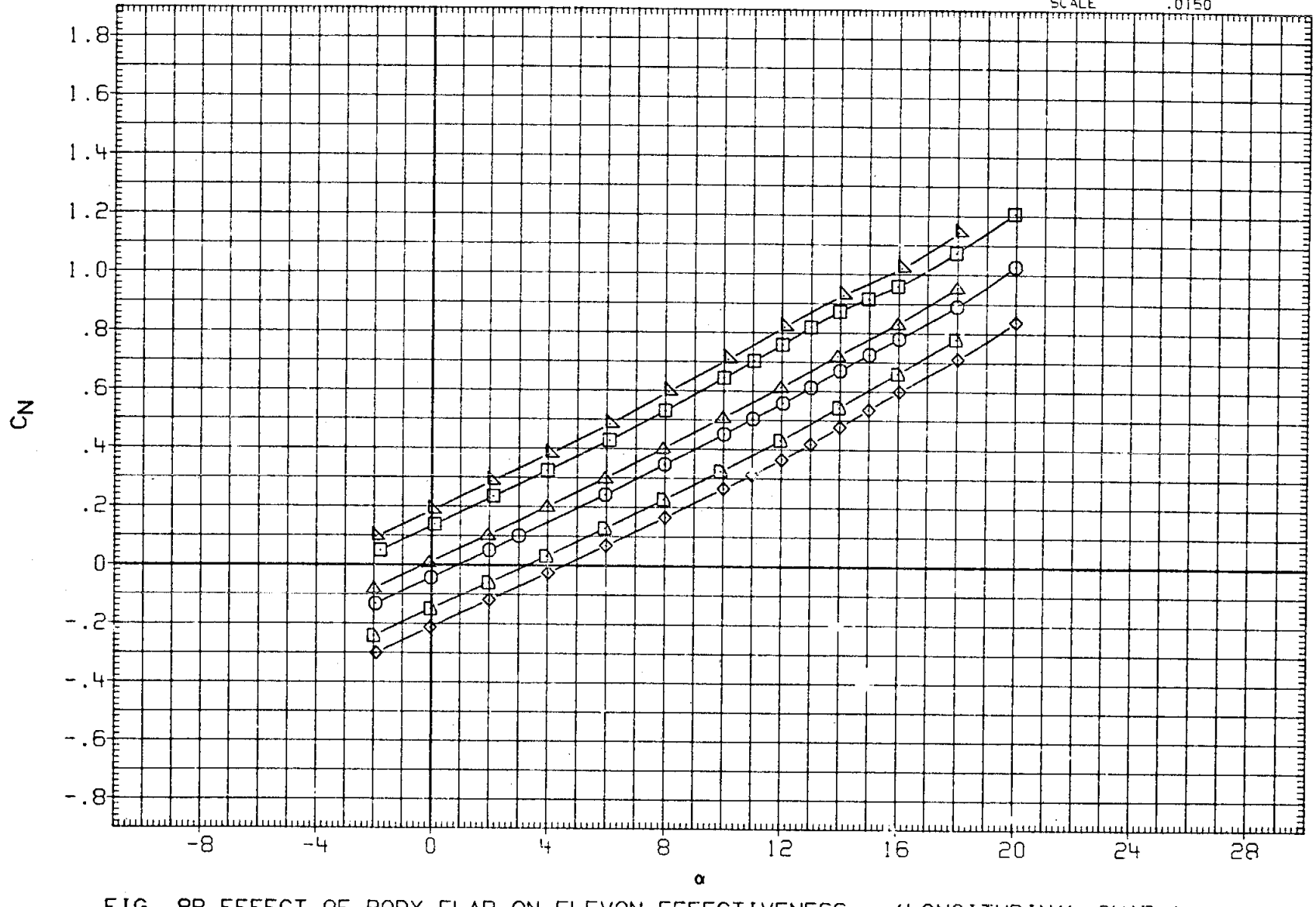

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◗	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

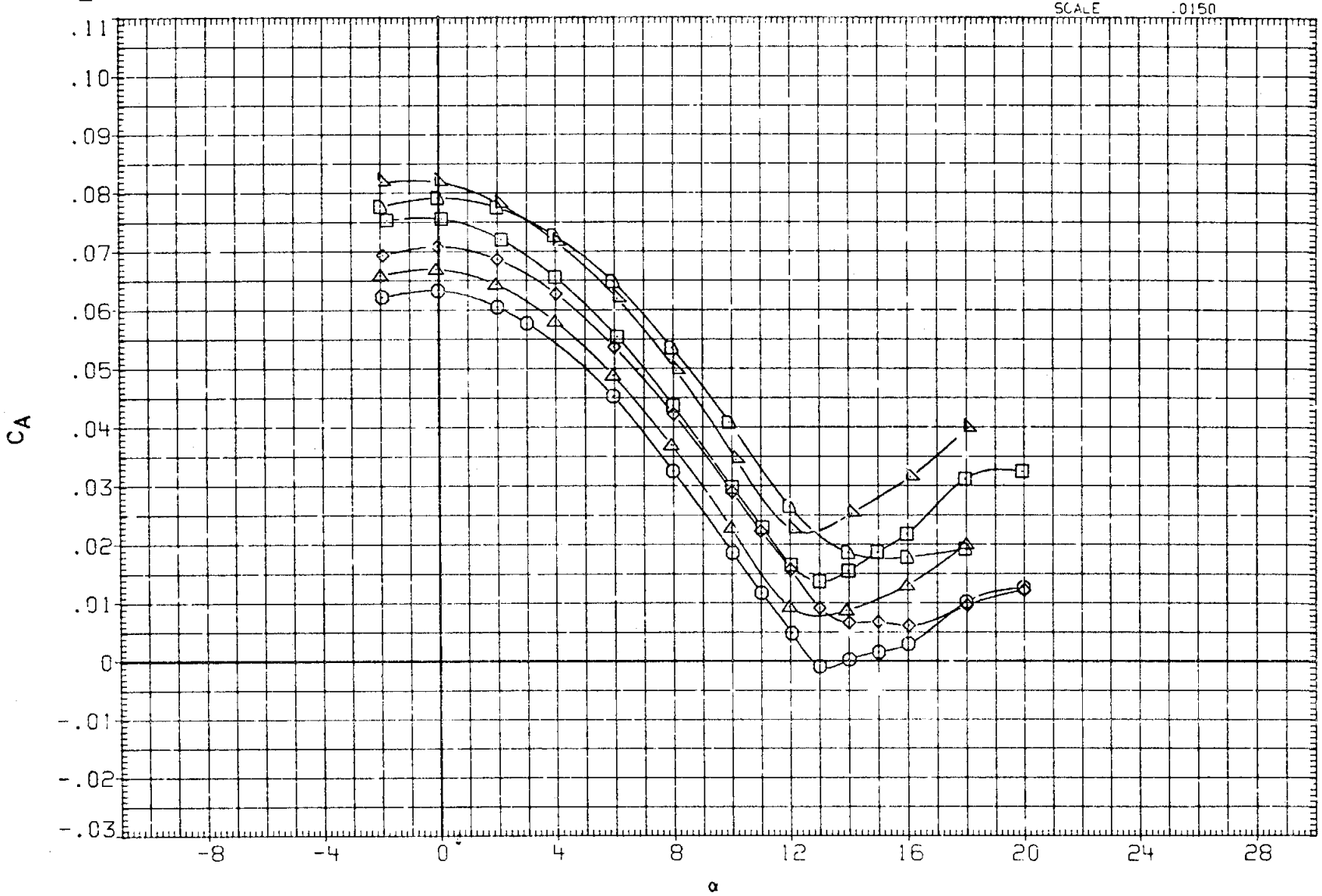

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

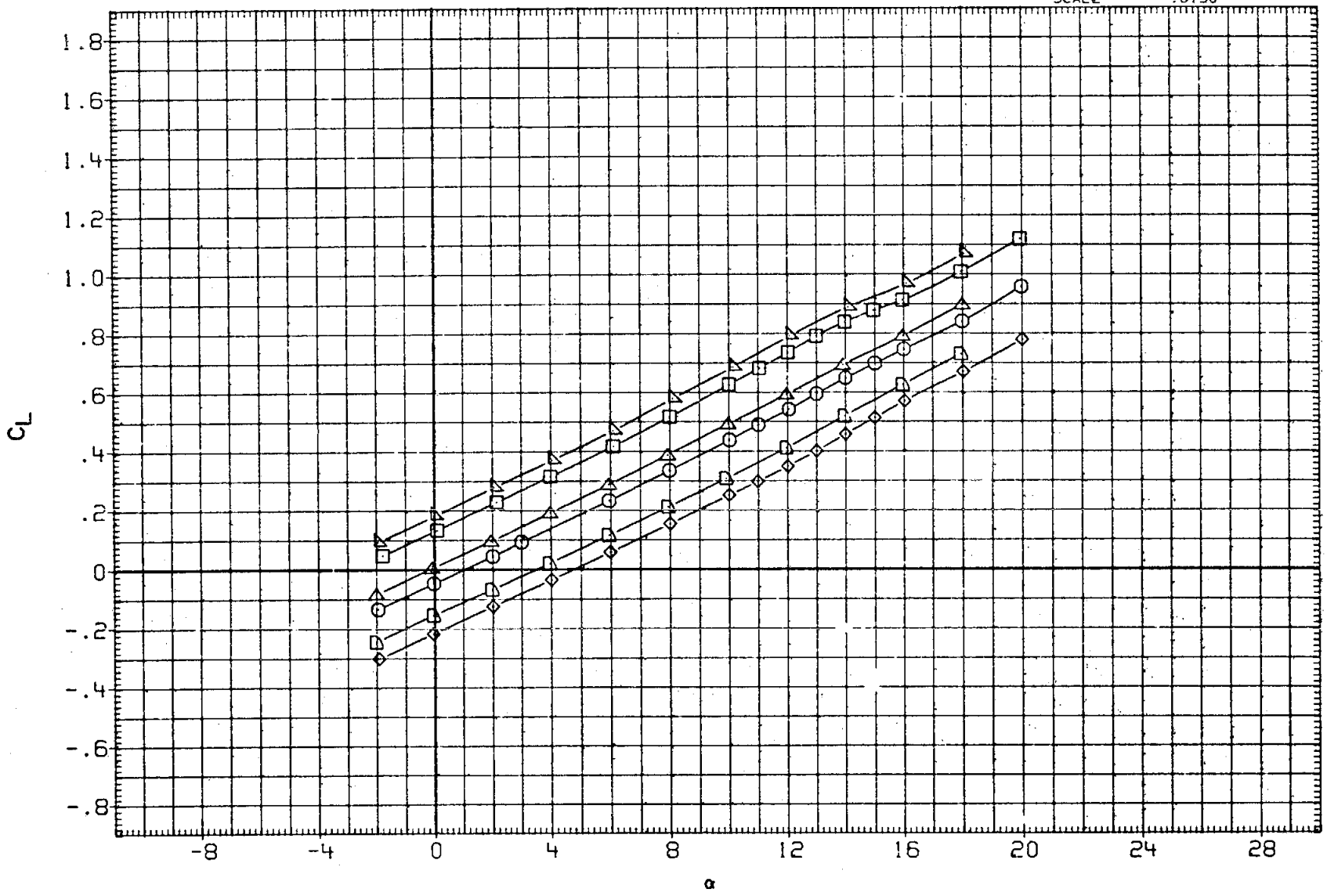

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◗	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

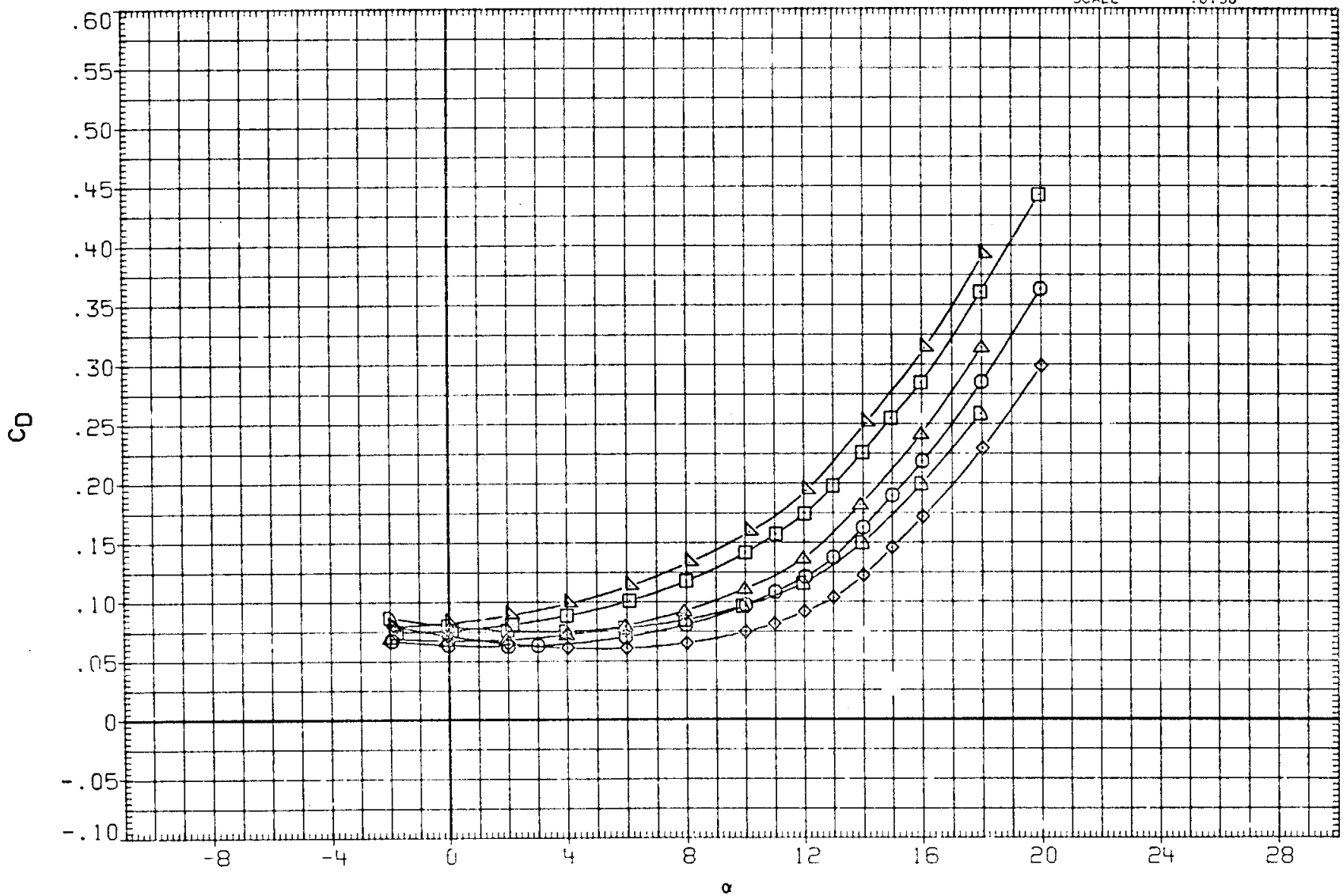

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

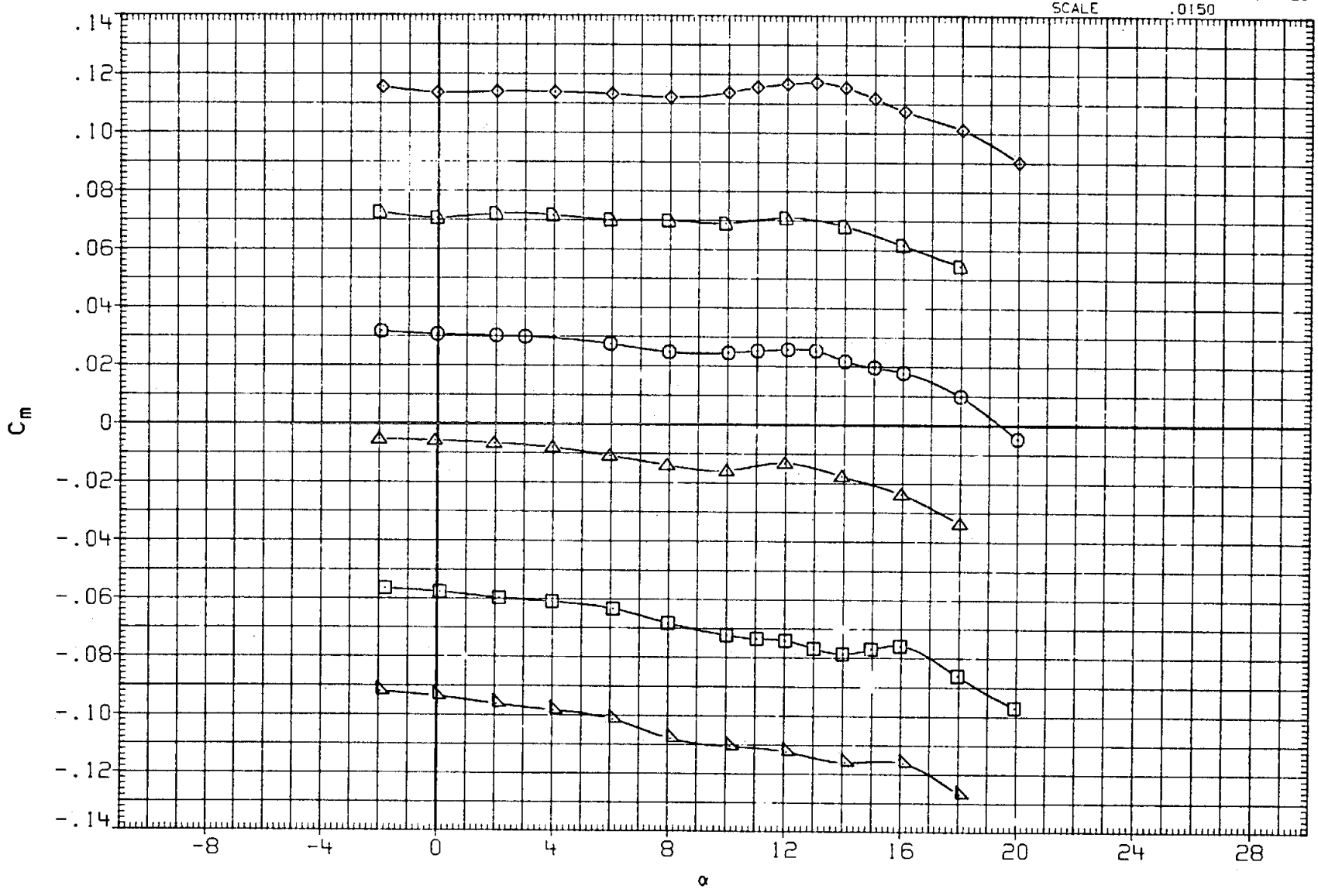

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B153	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

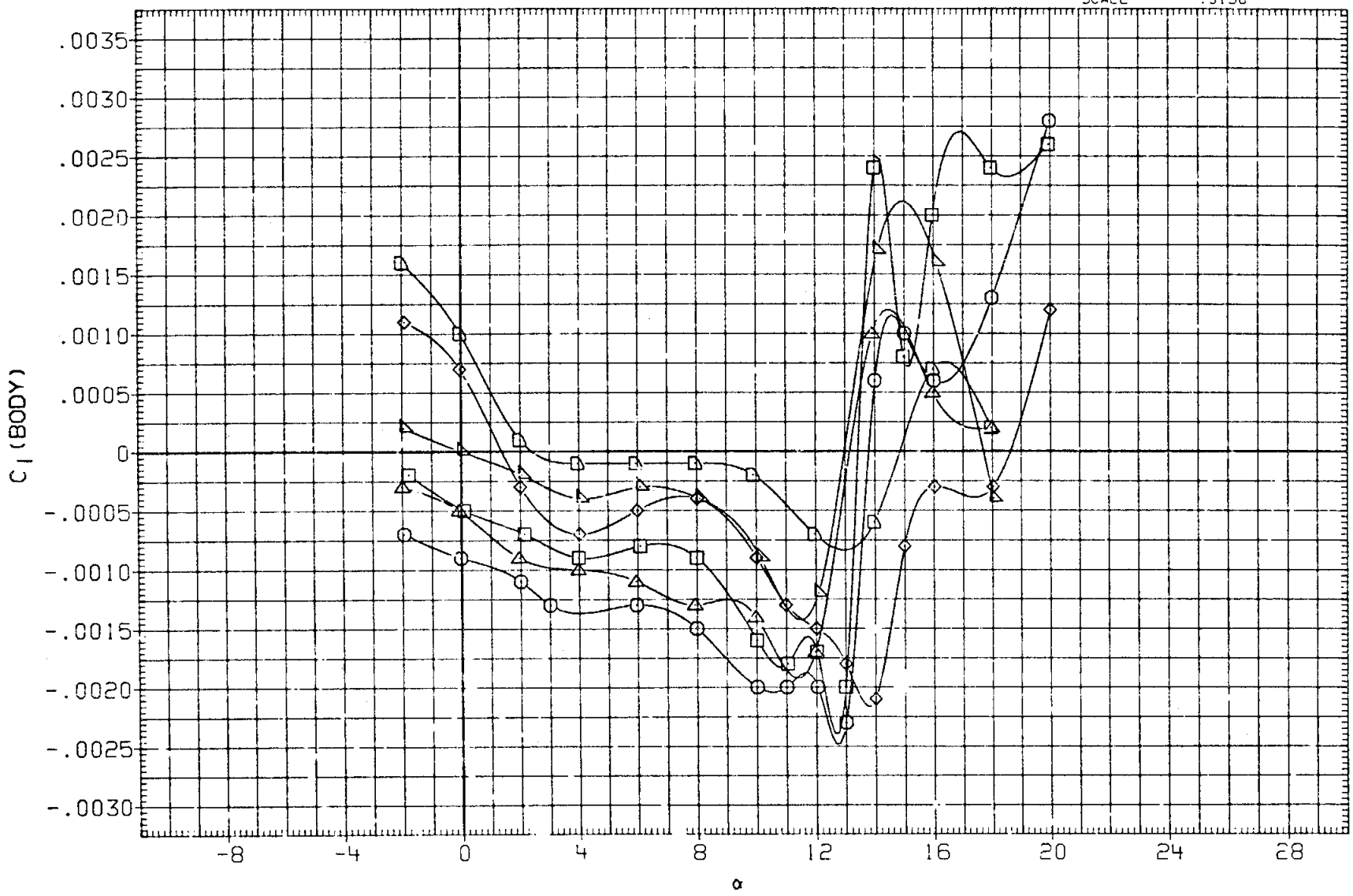

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

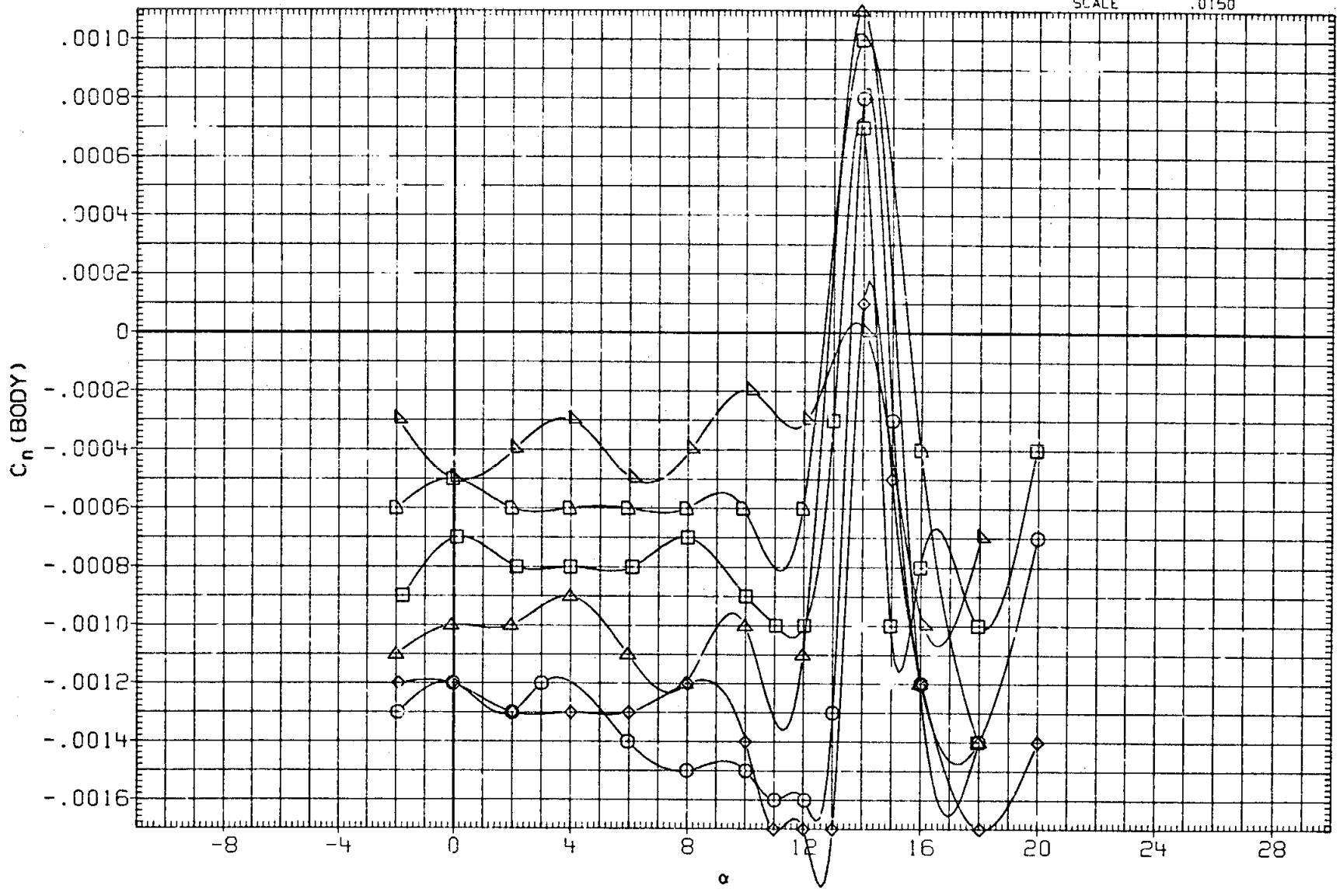

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B019	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B020	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B155	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B159	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B156	◸	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

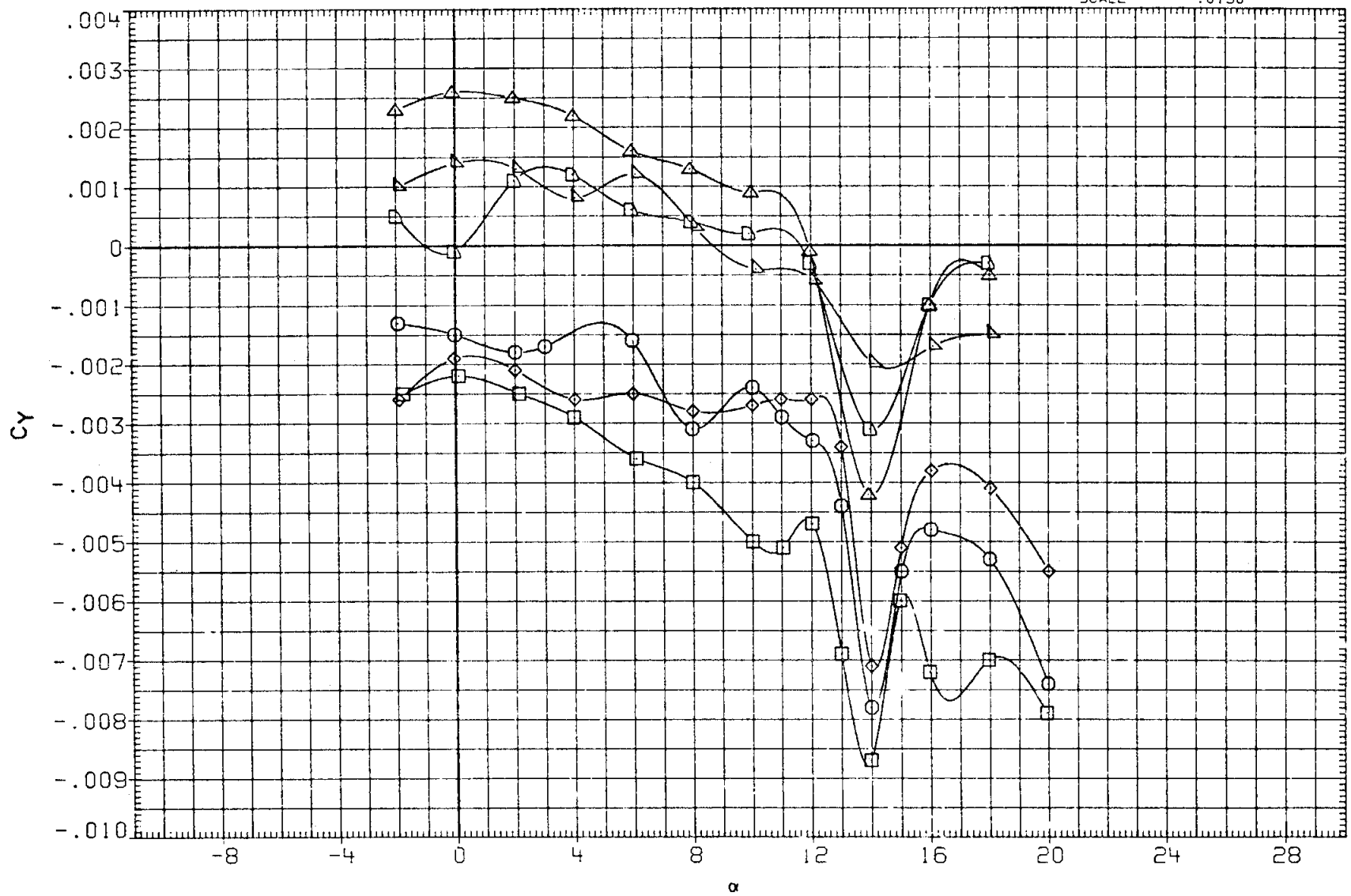

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

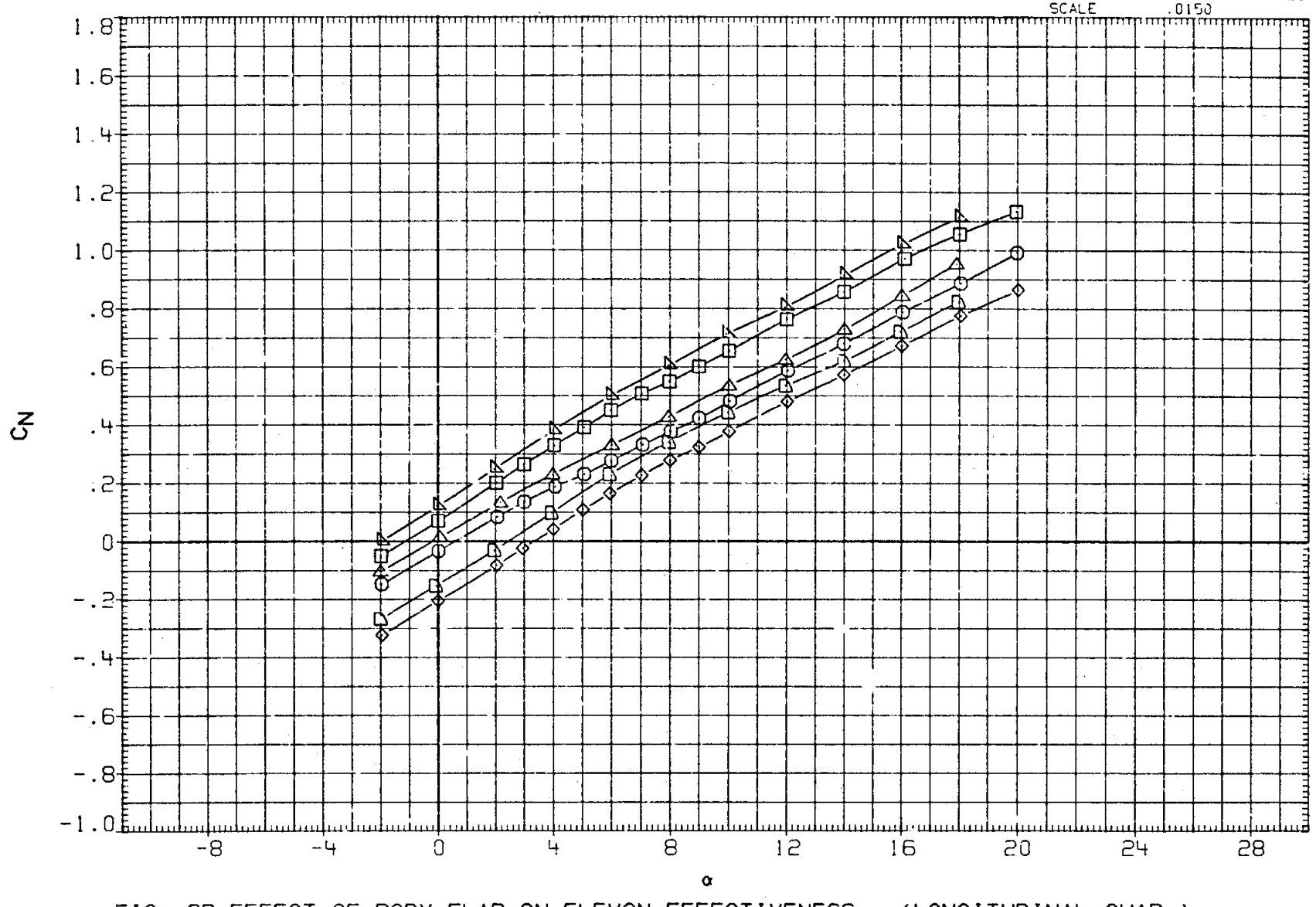

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

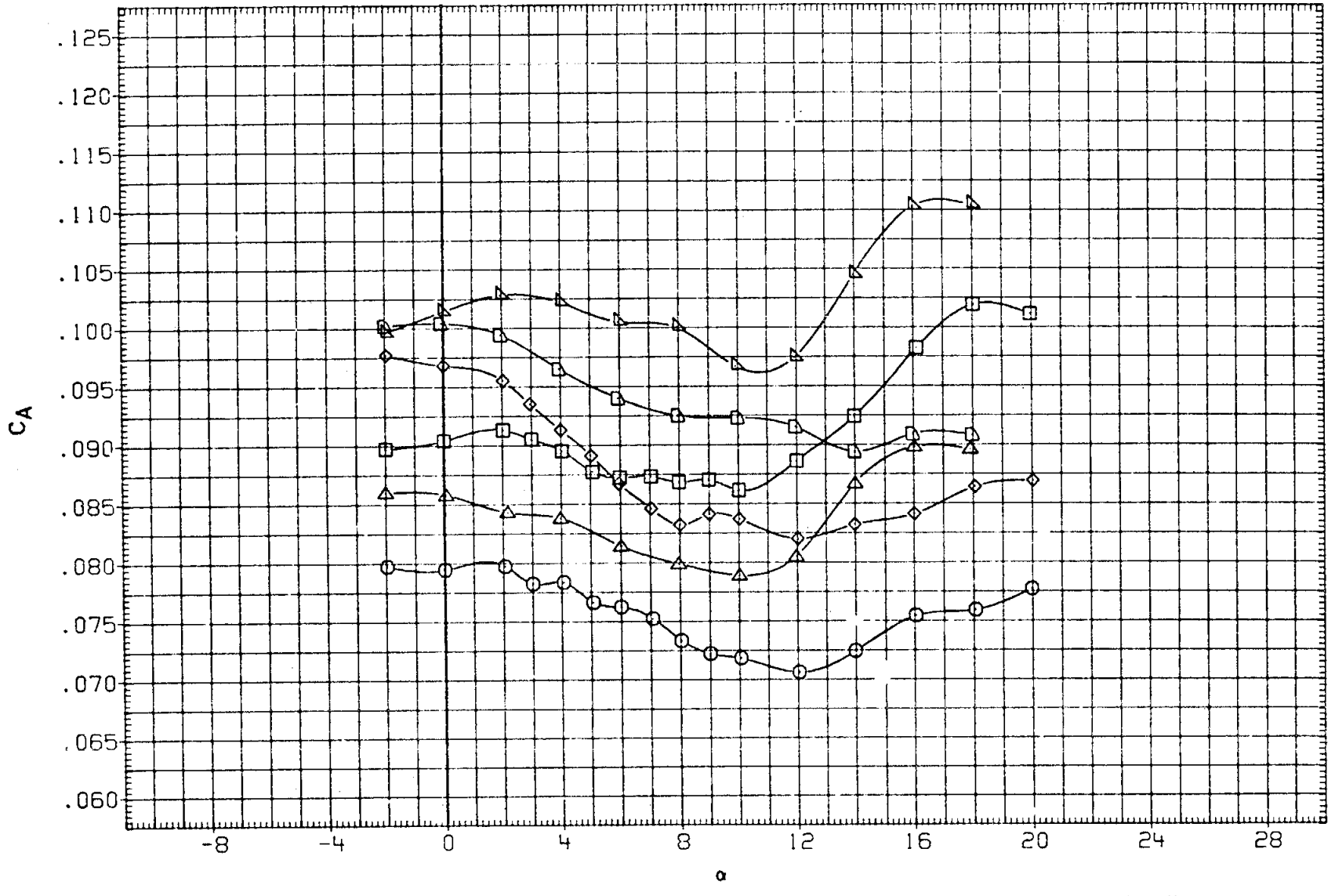

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◗	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

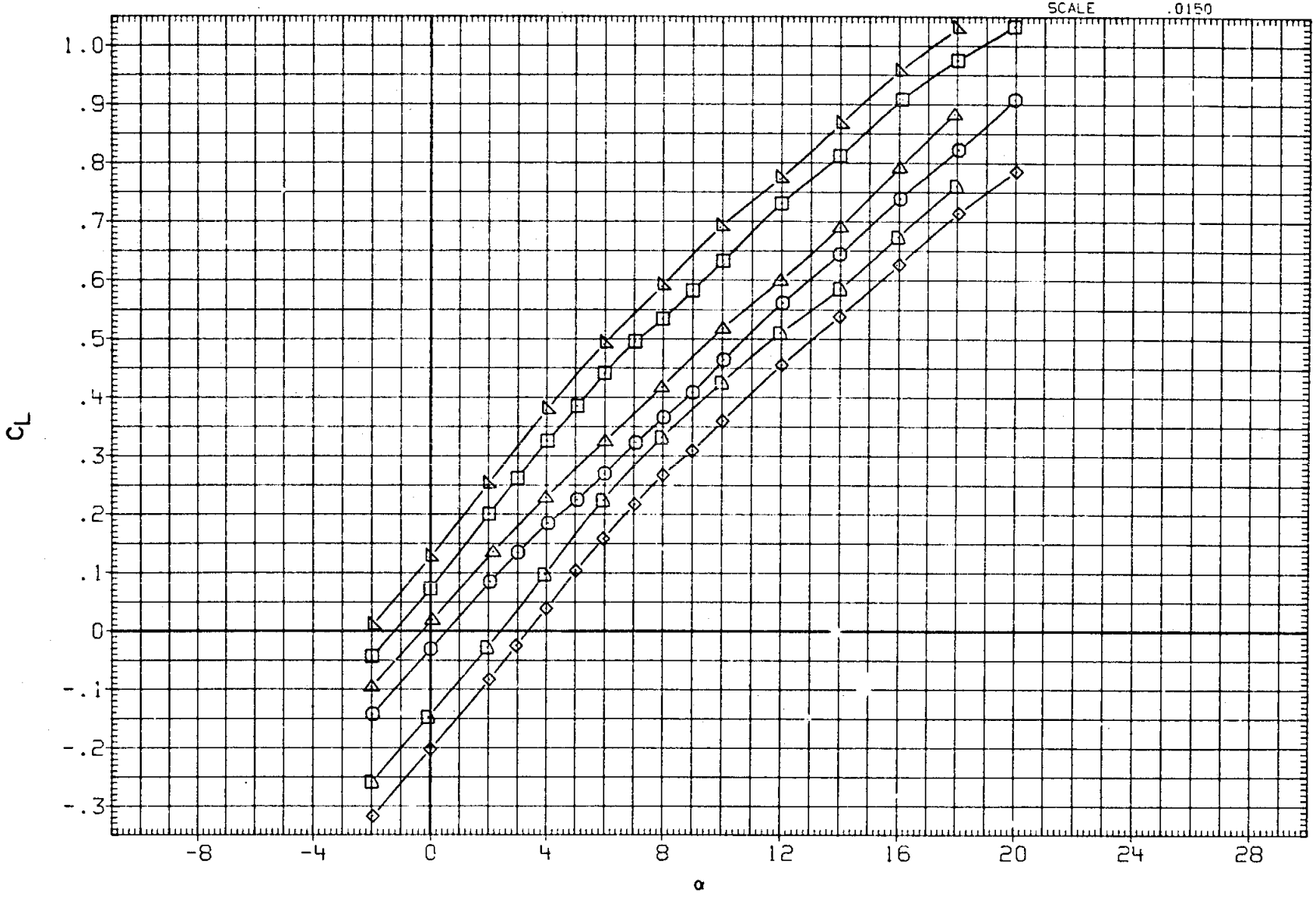

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

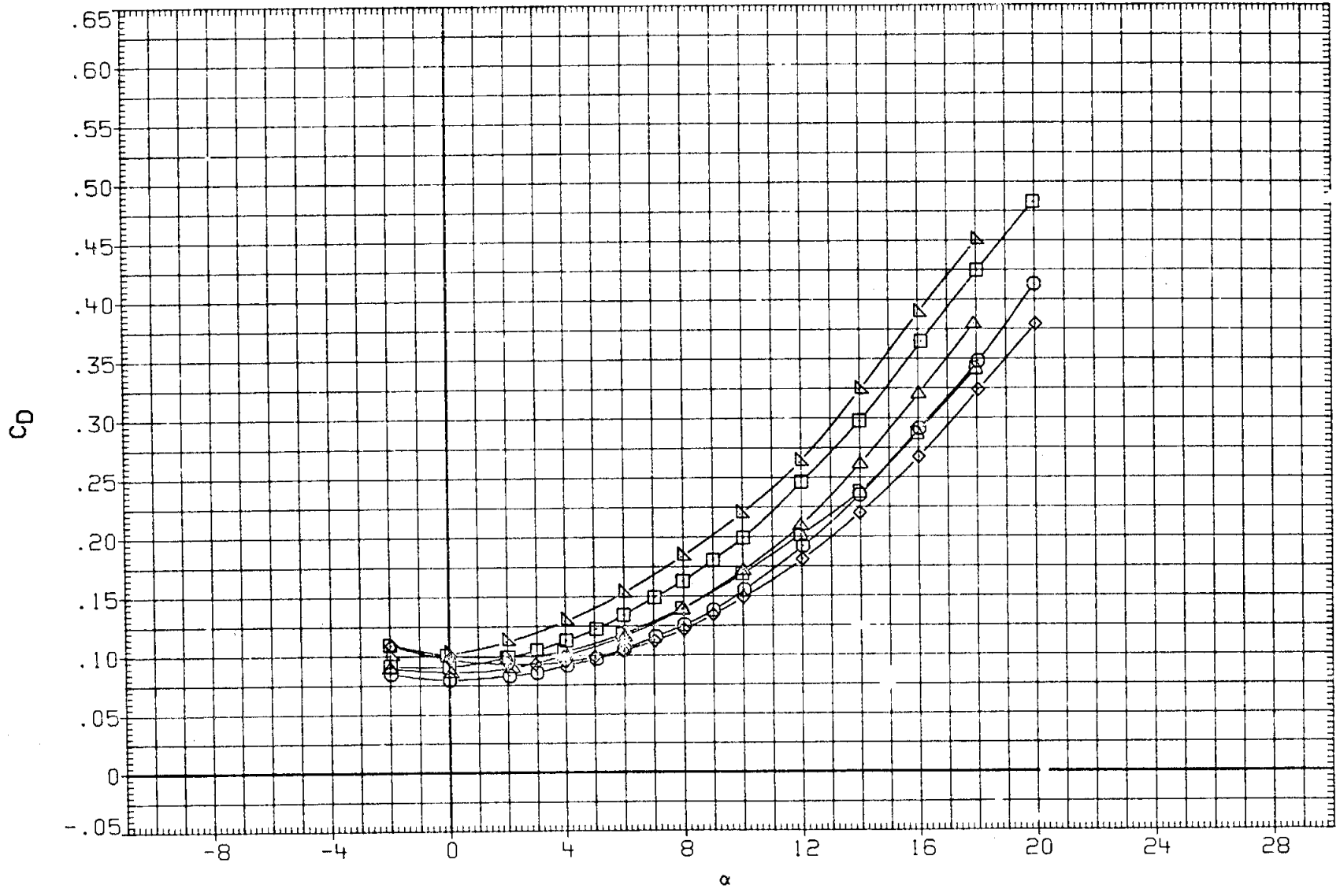

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

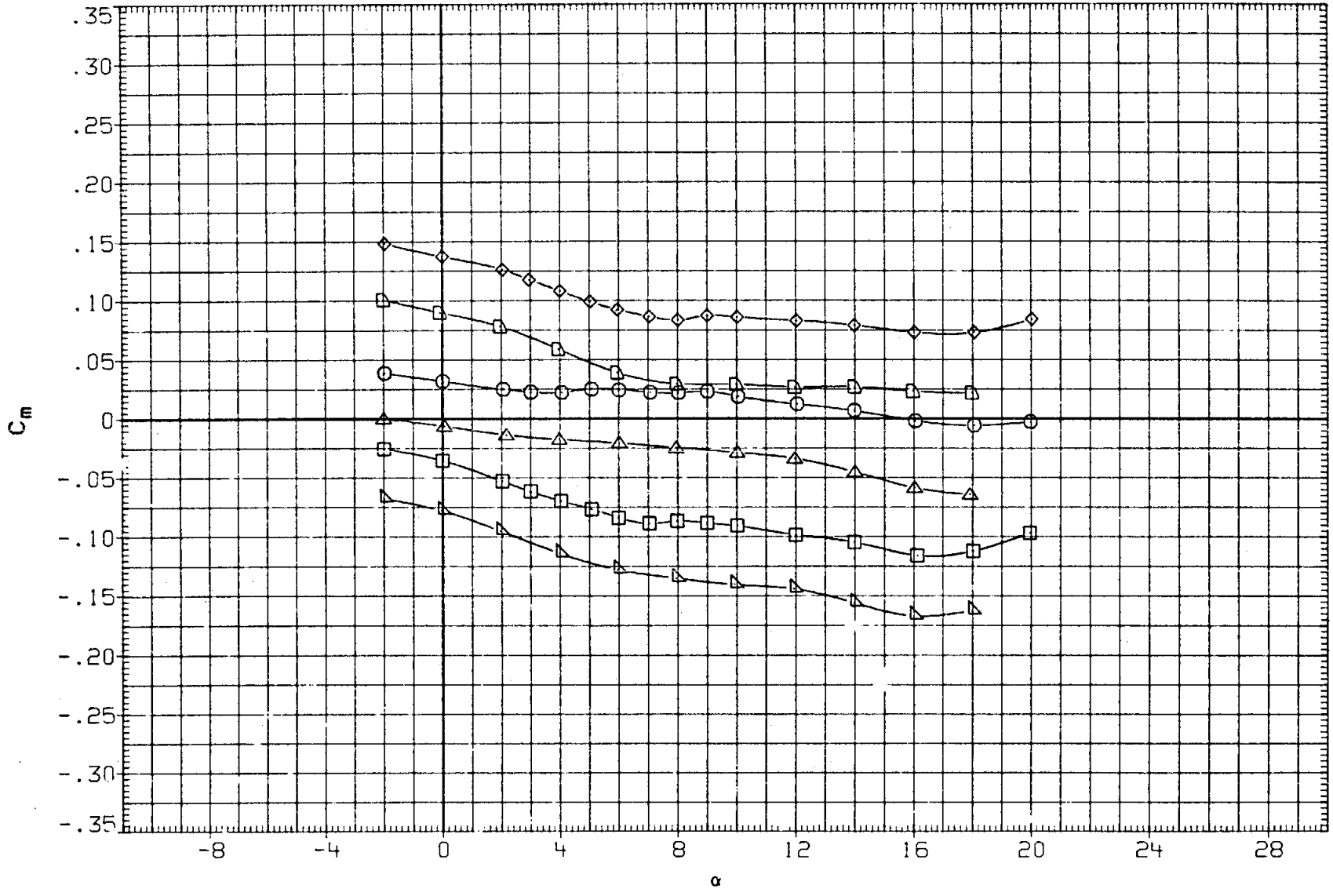

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R28164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R28162	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

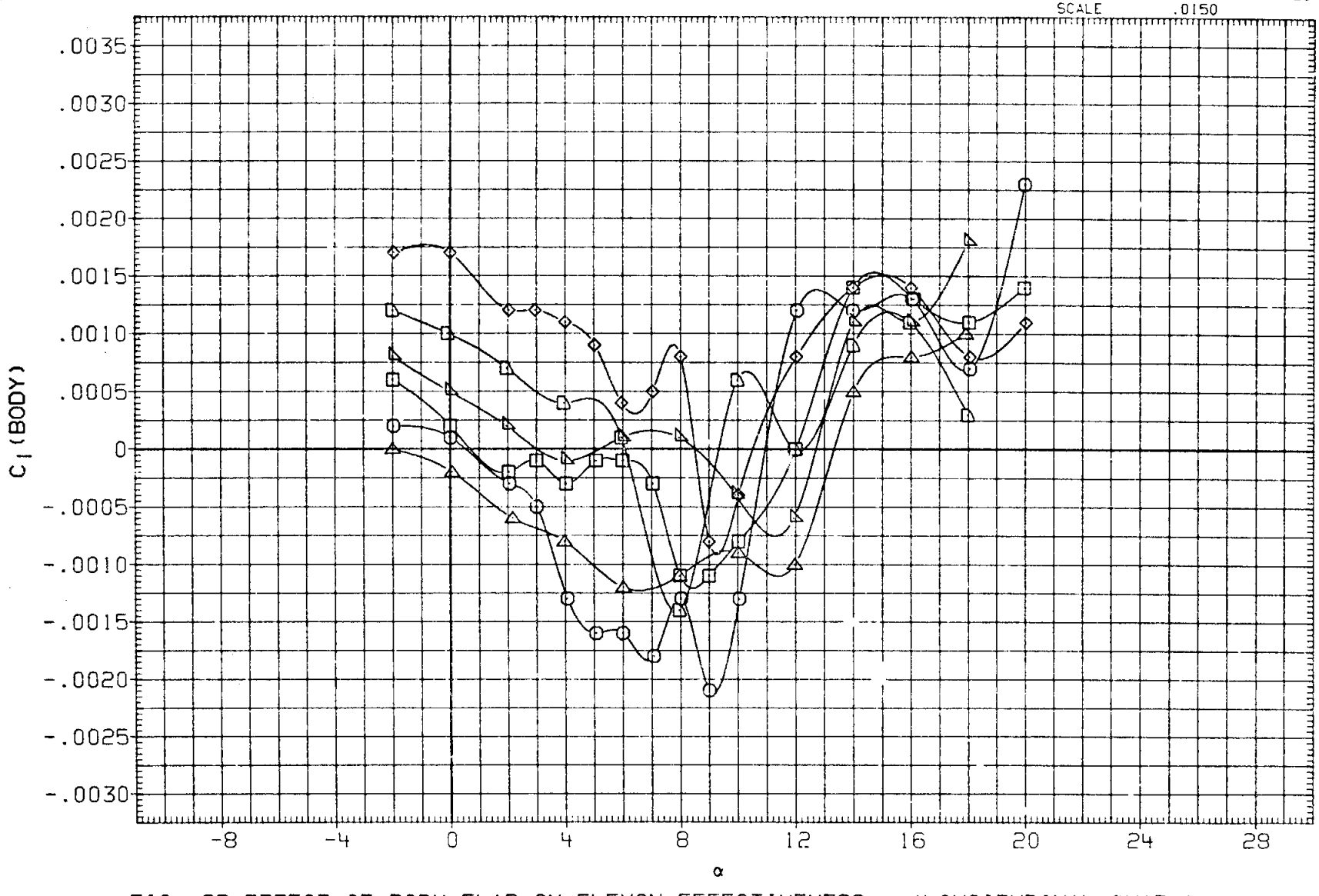

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

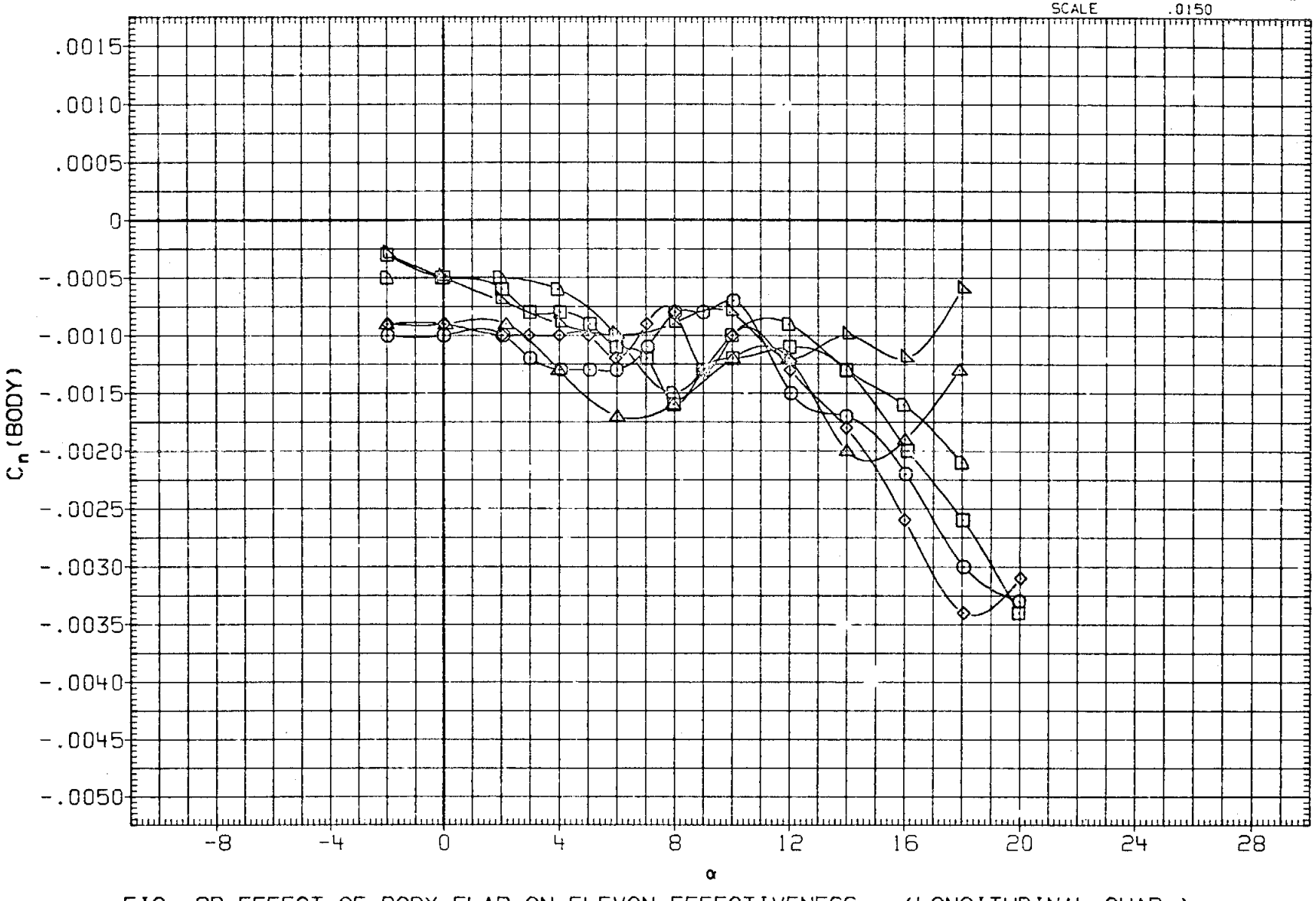

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

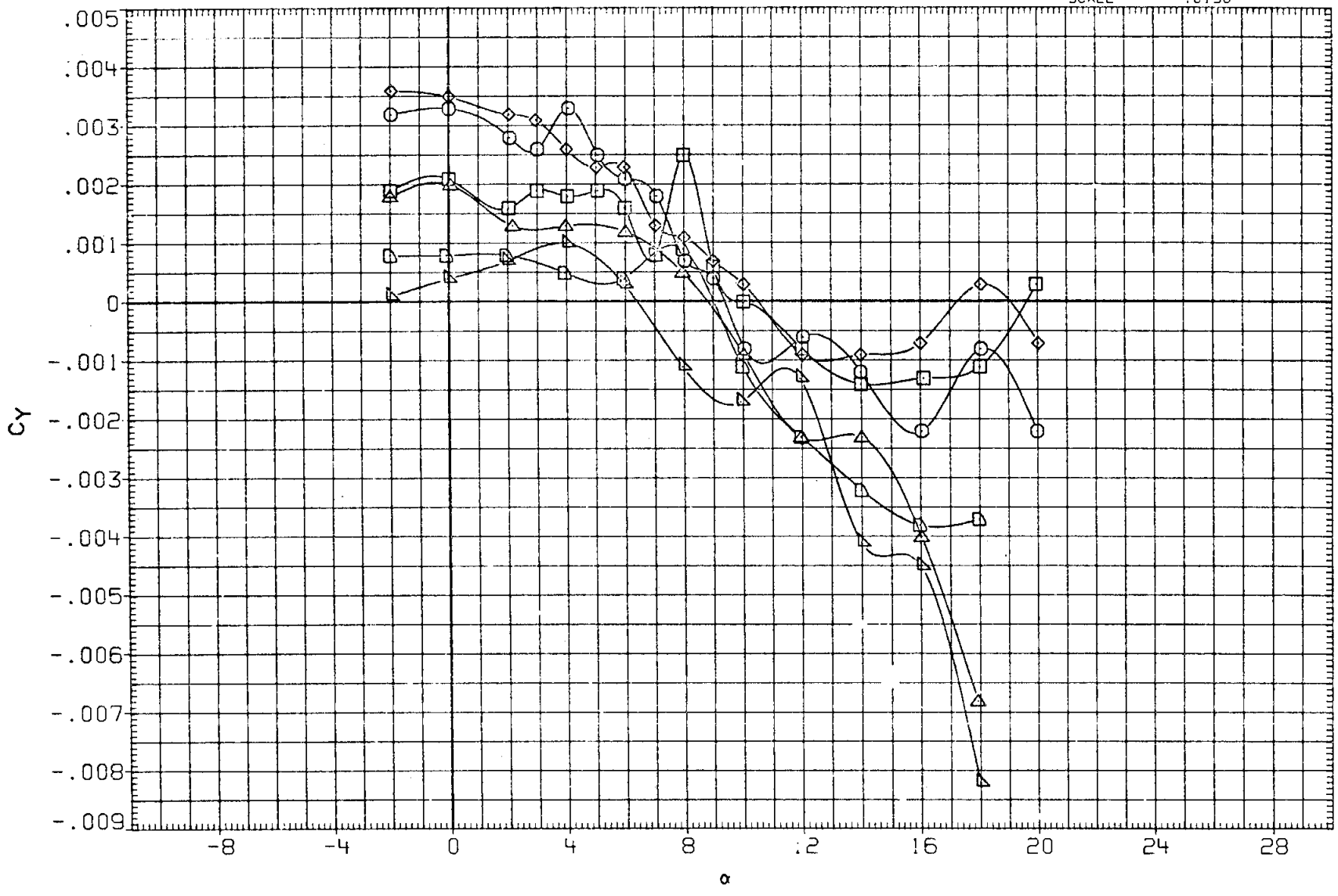

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R28005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R28006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R28161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R28164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R28162	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

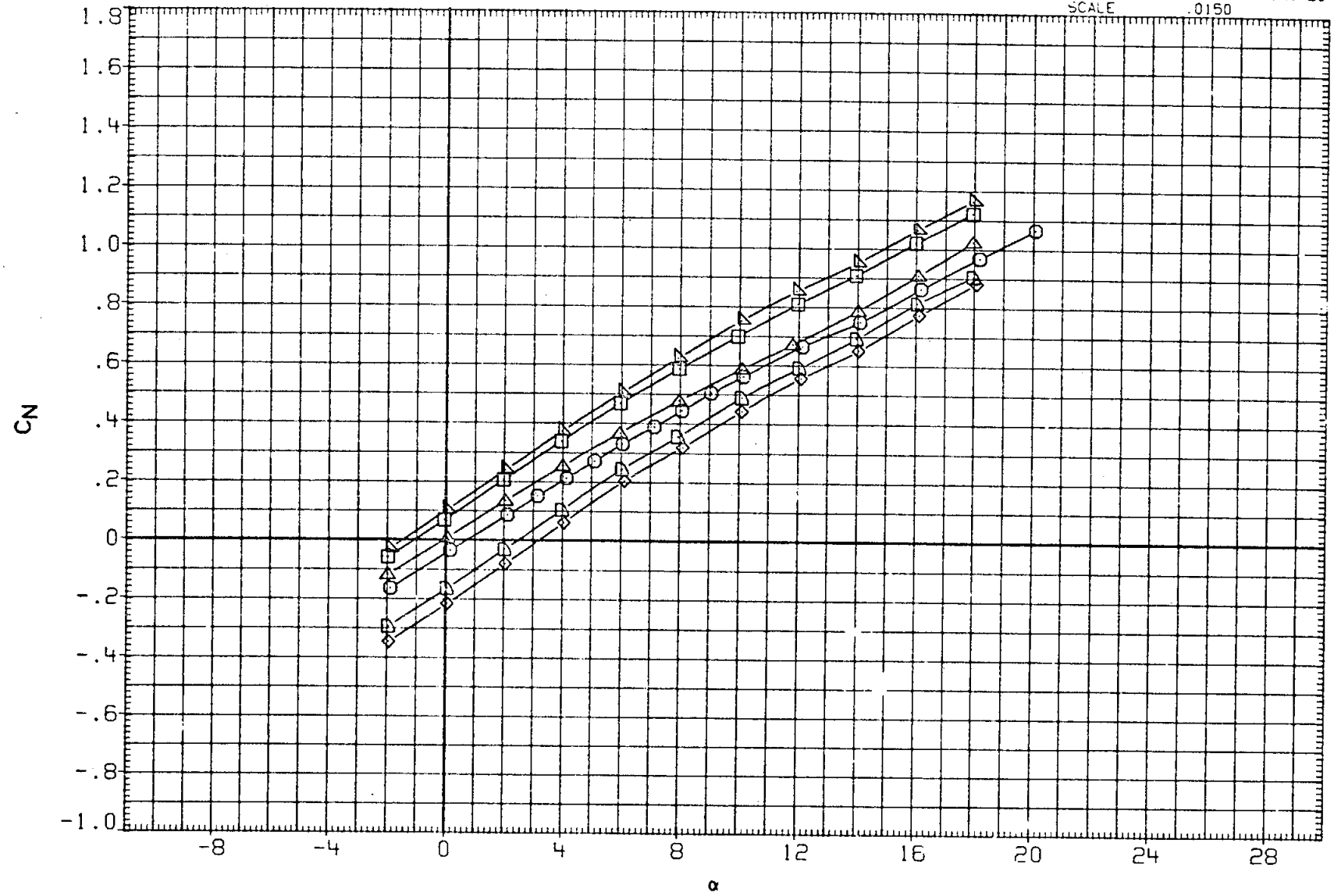

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

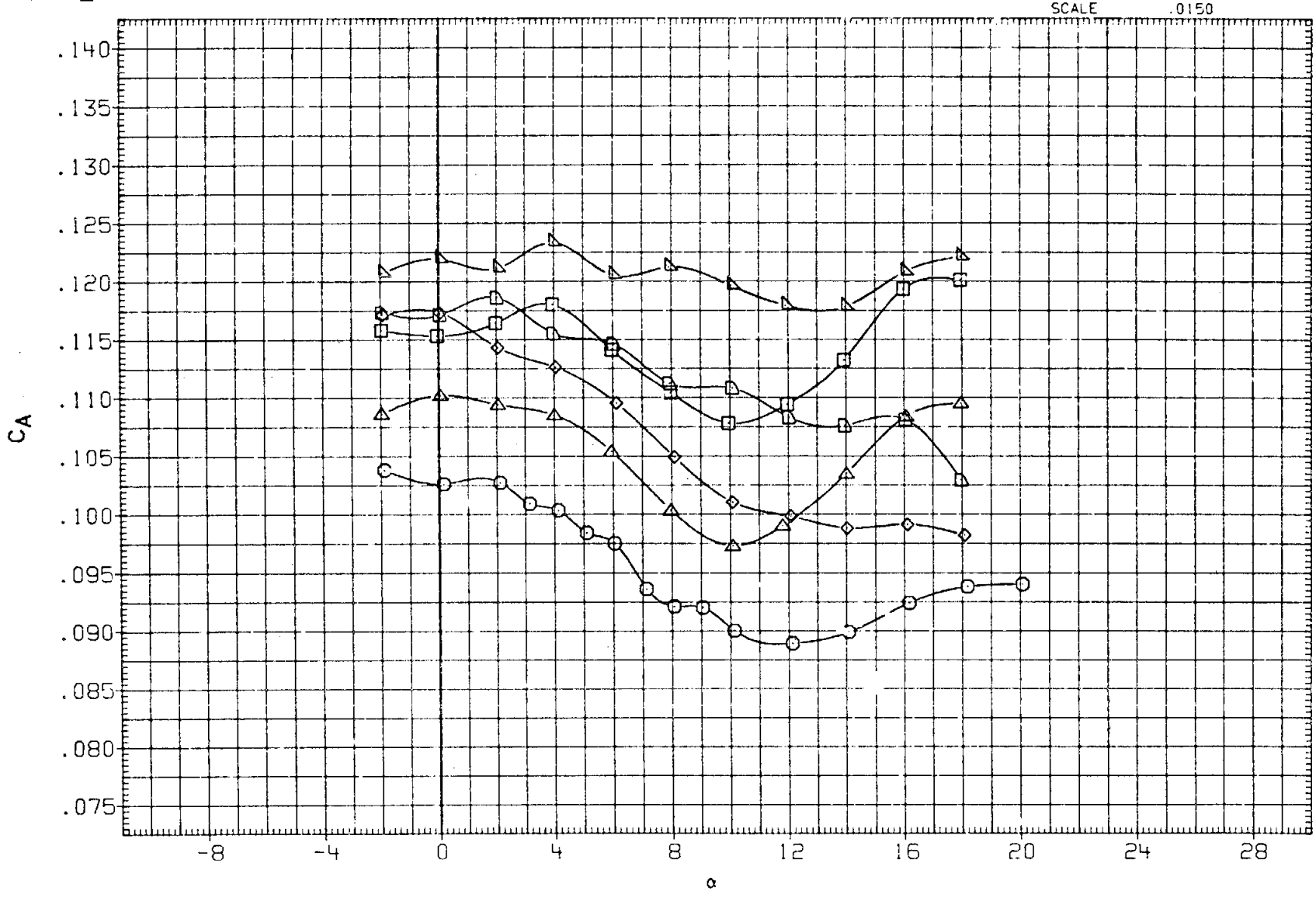

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◭	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

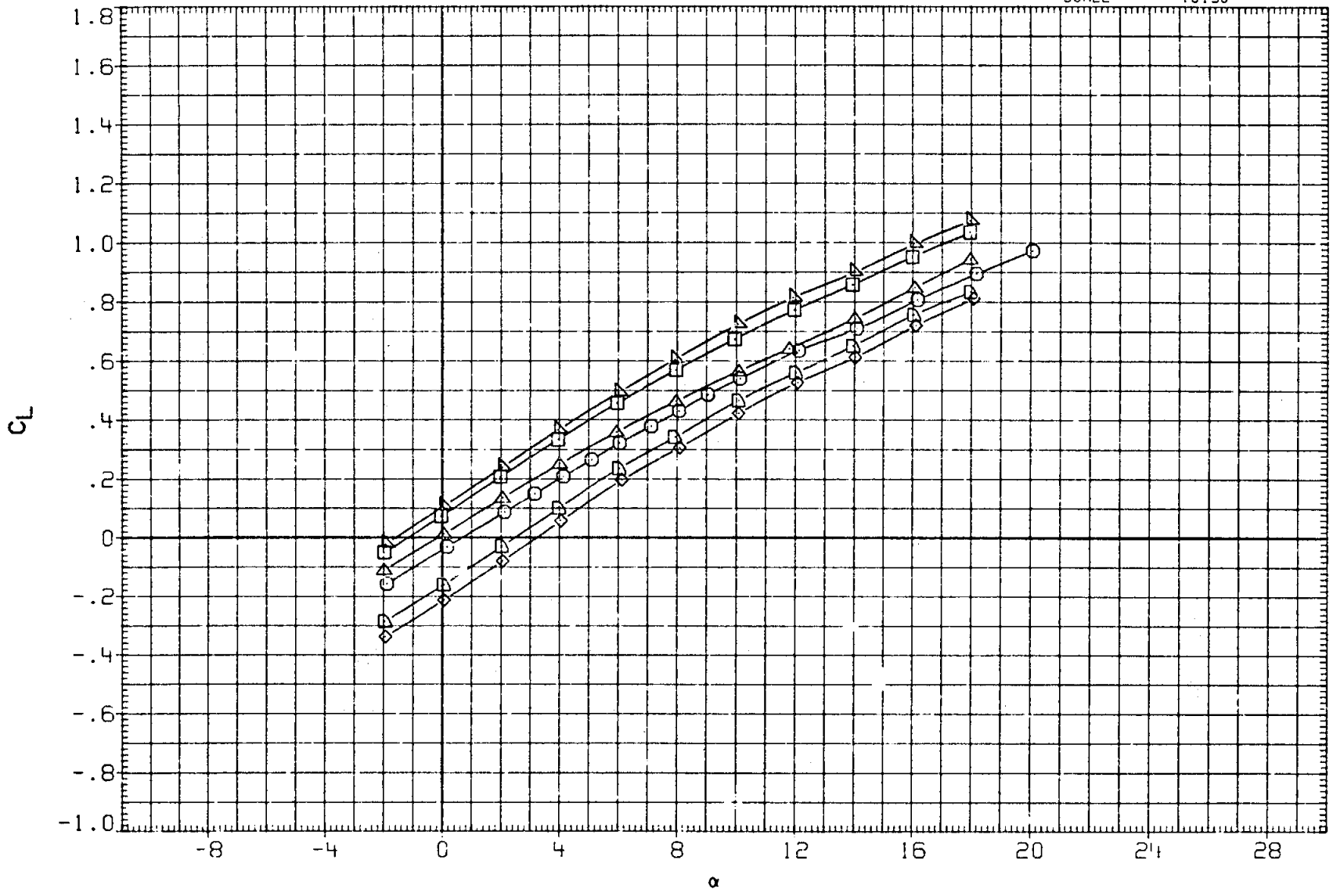

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

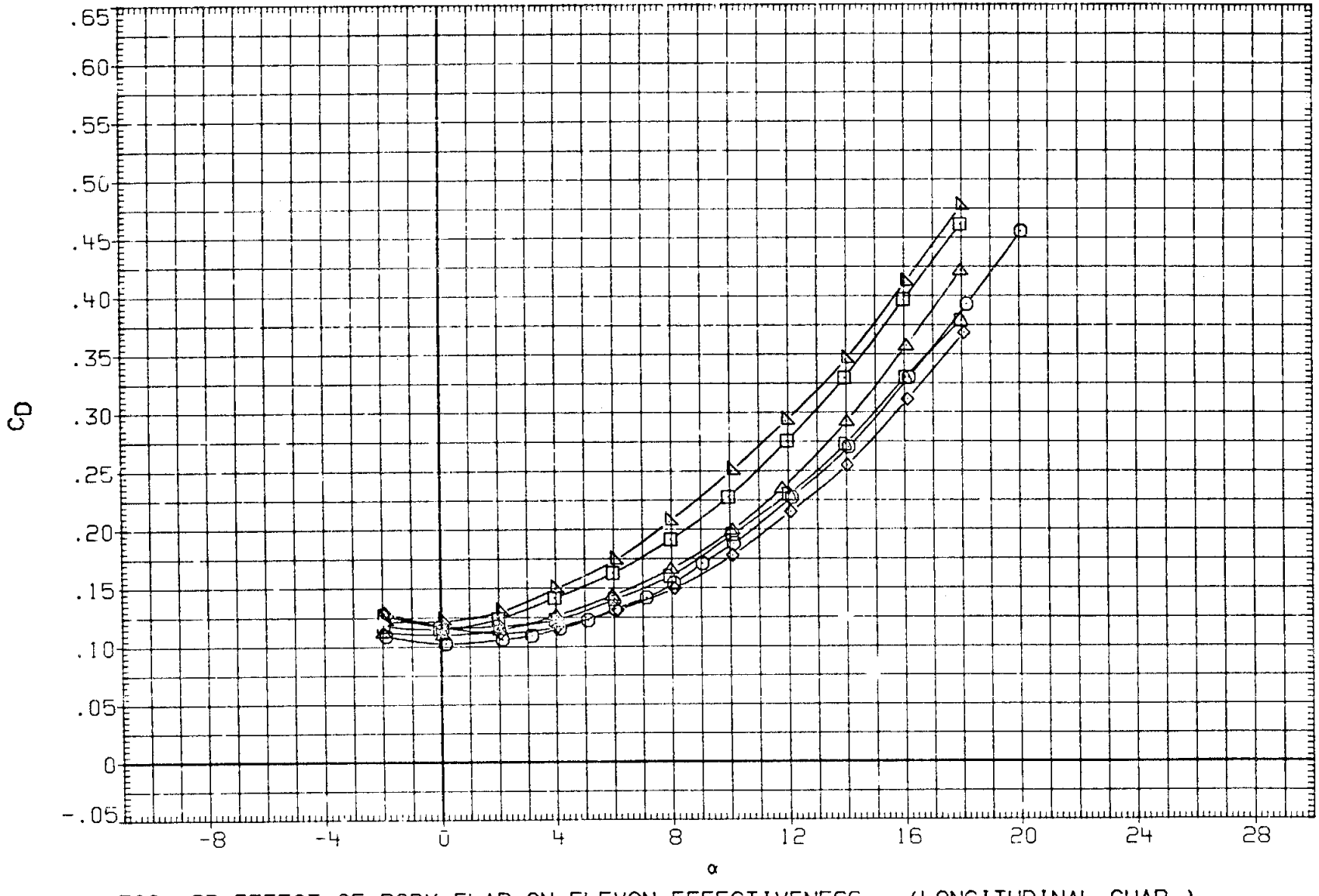

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

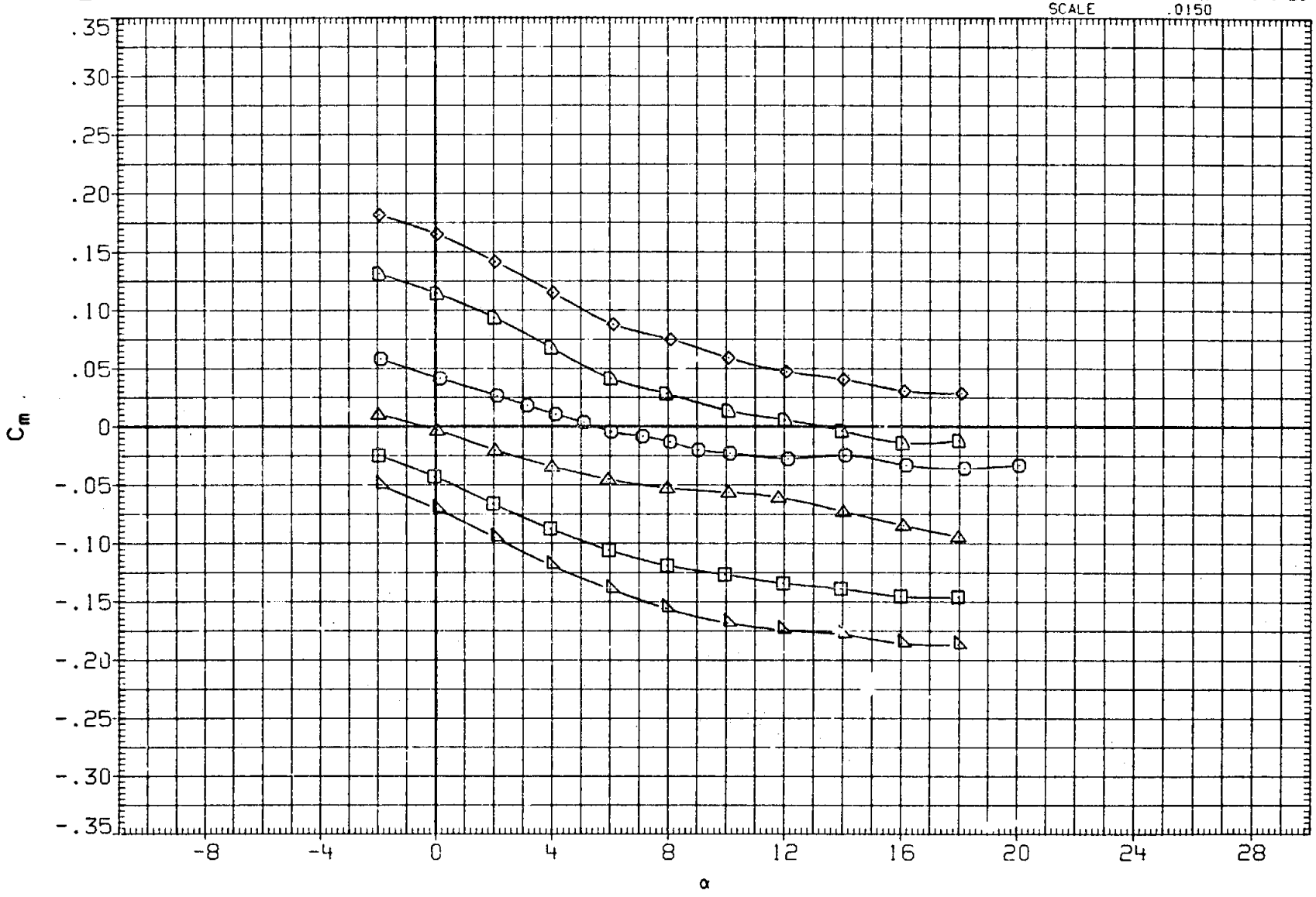

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

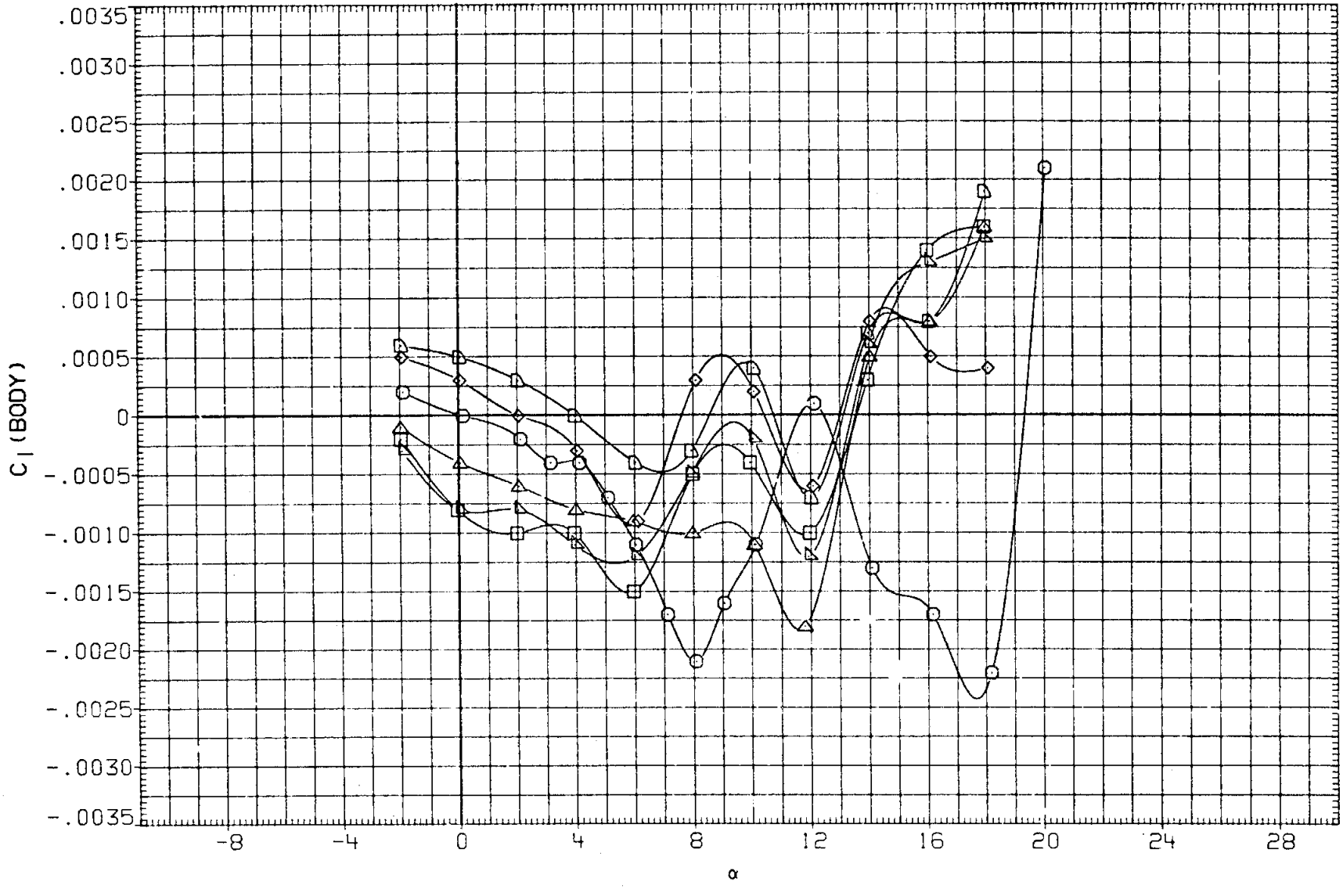

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	[illegible]	[illegible]	[illegible]	[illegible]
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◗	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

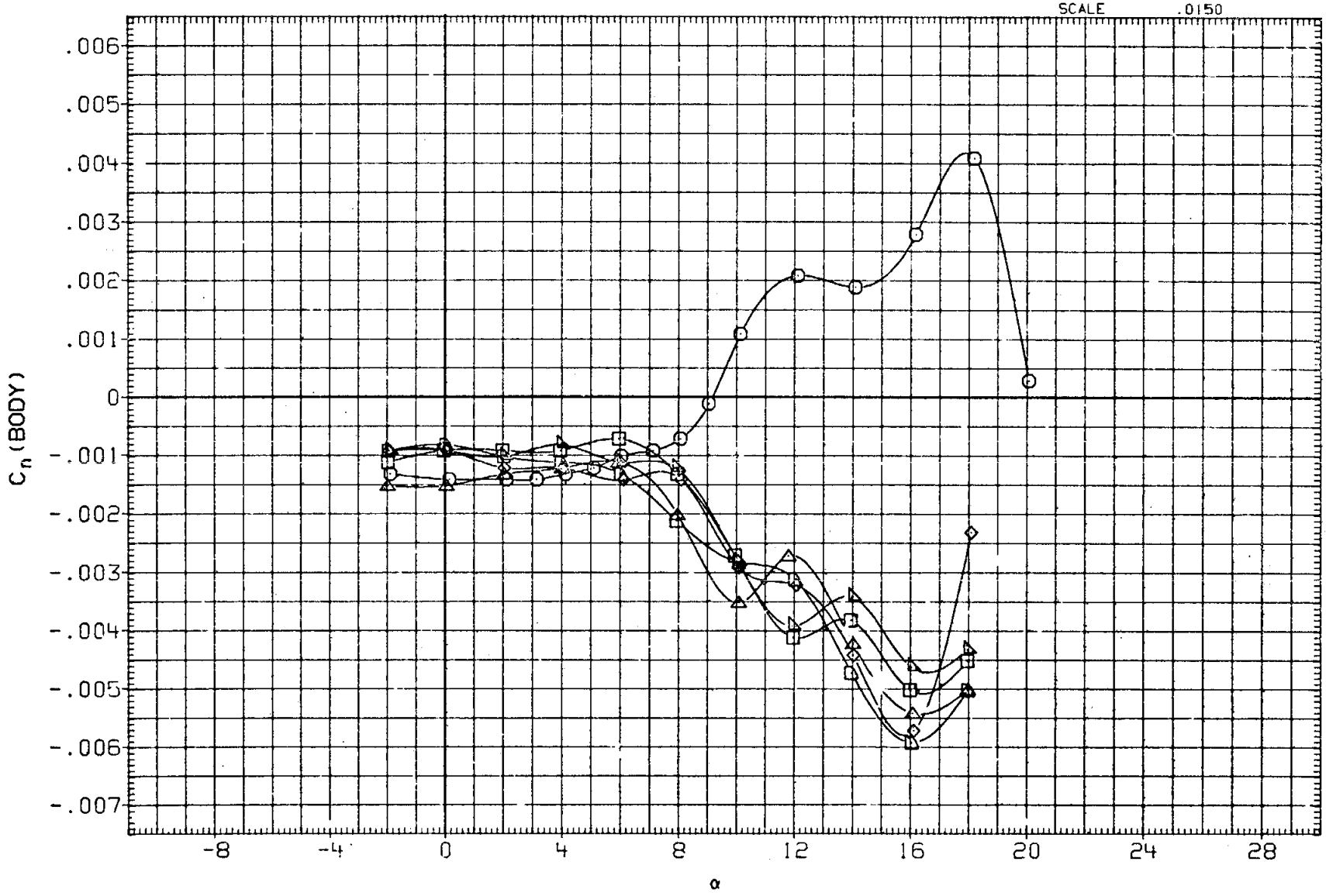

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◁	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	▷	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

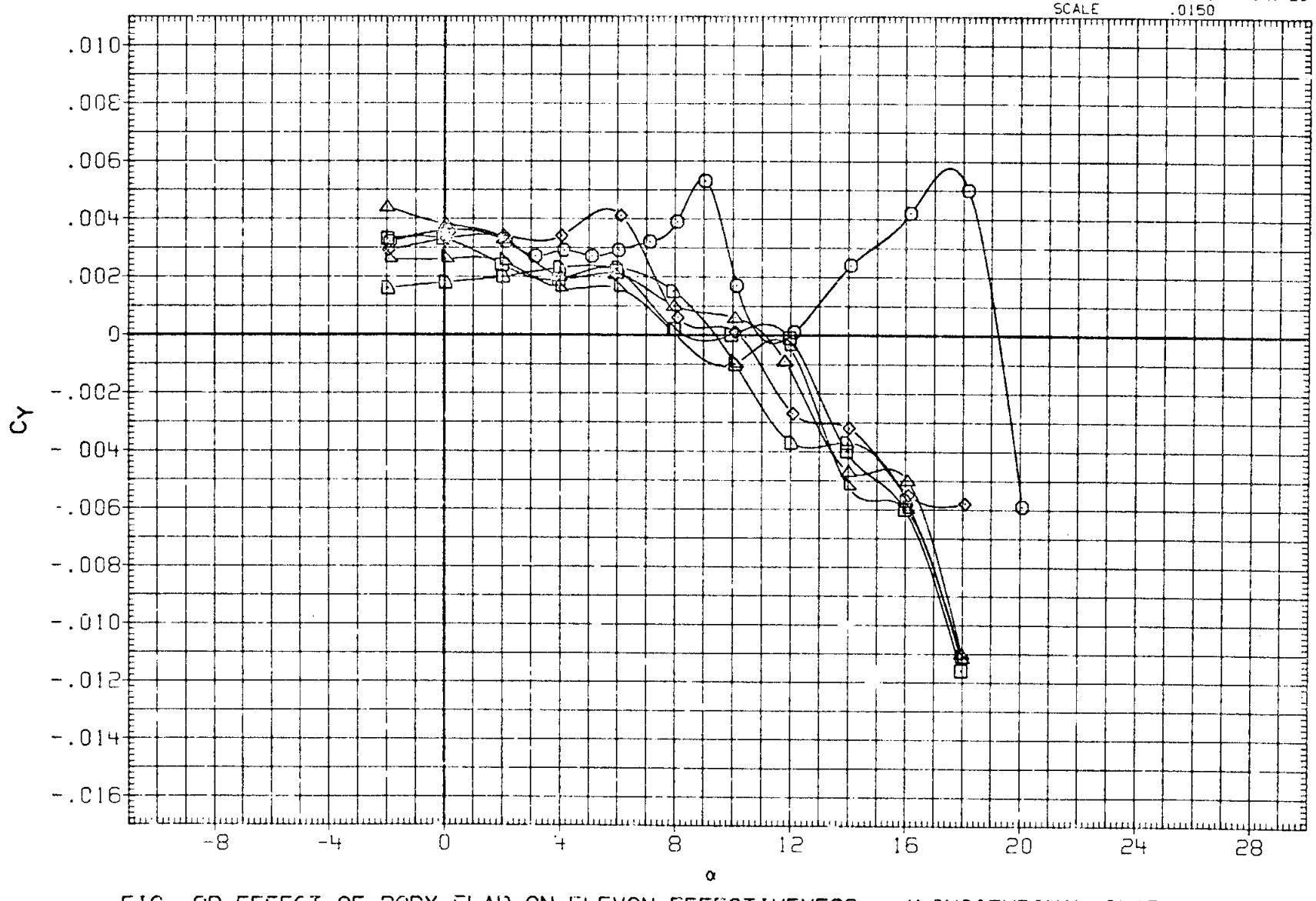

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◭	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◮	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

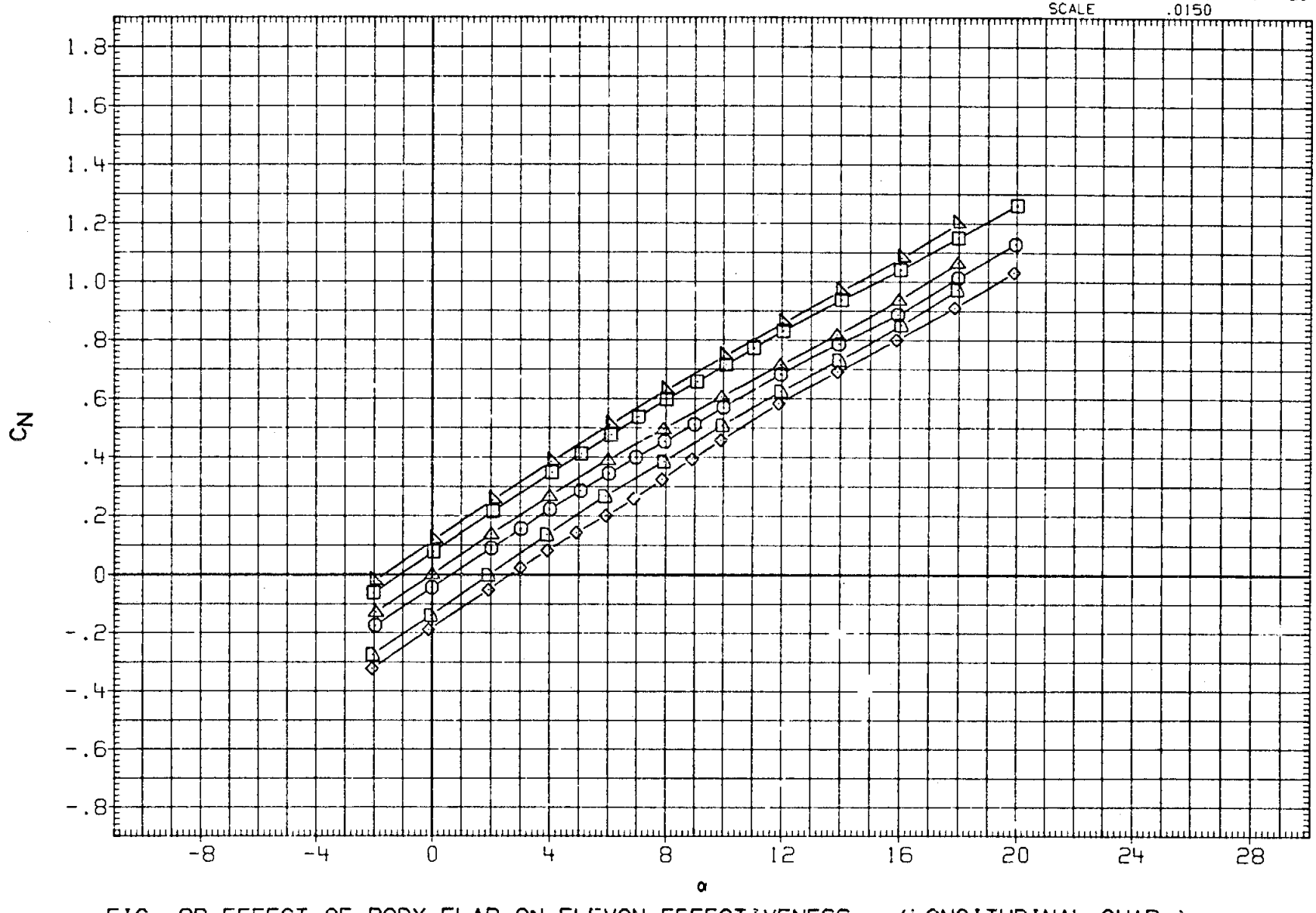

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPOBRK	BOFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	D	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

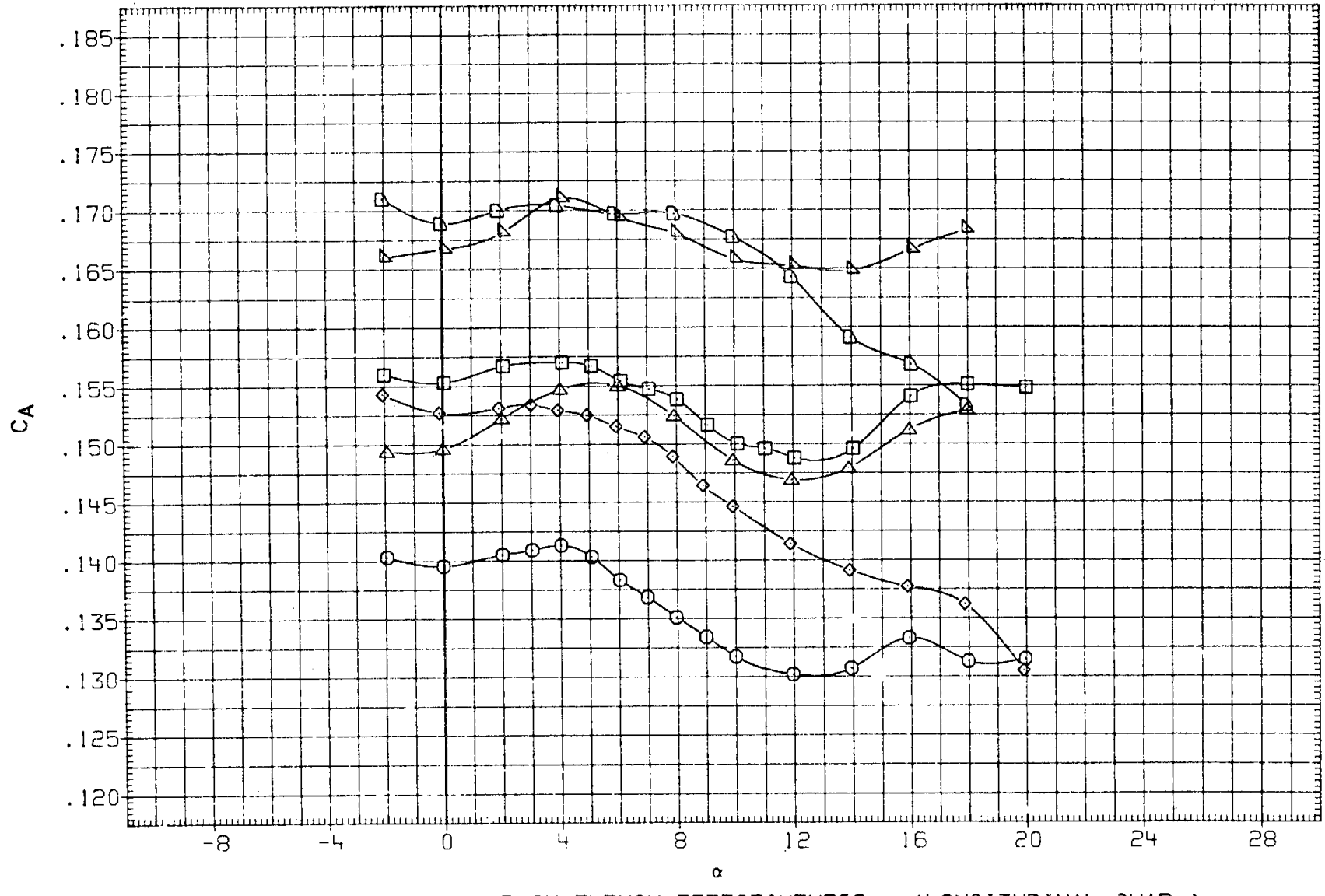

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

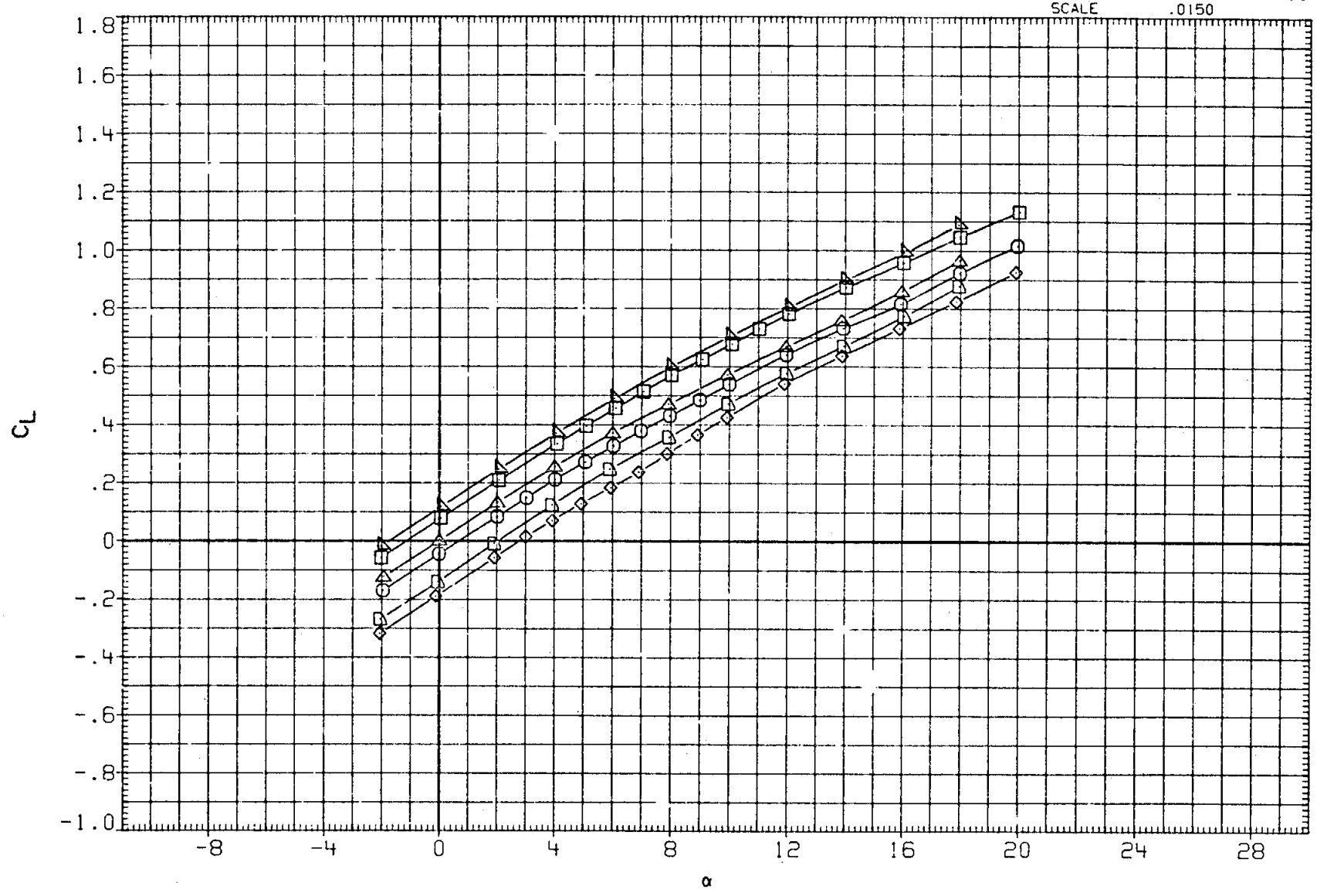

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

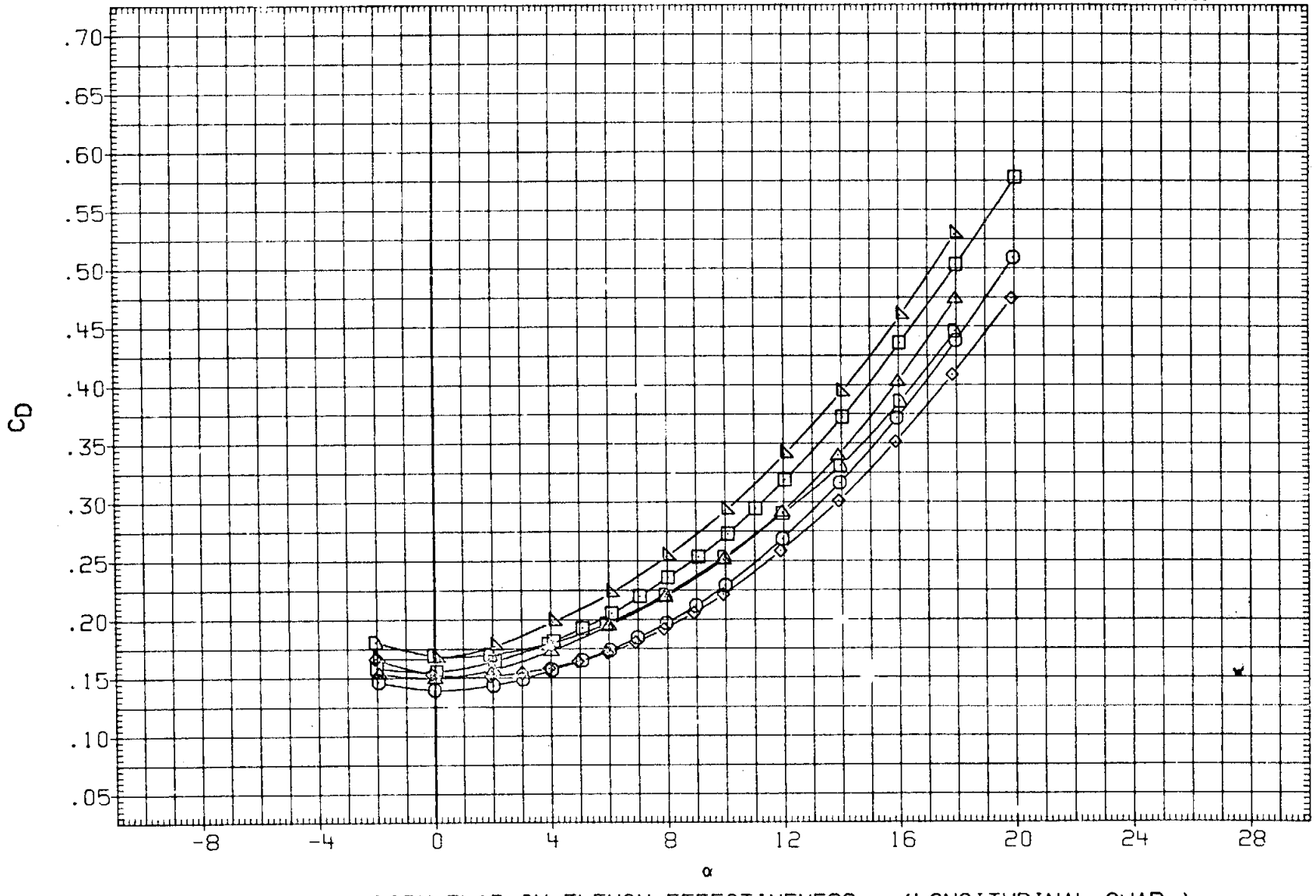

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

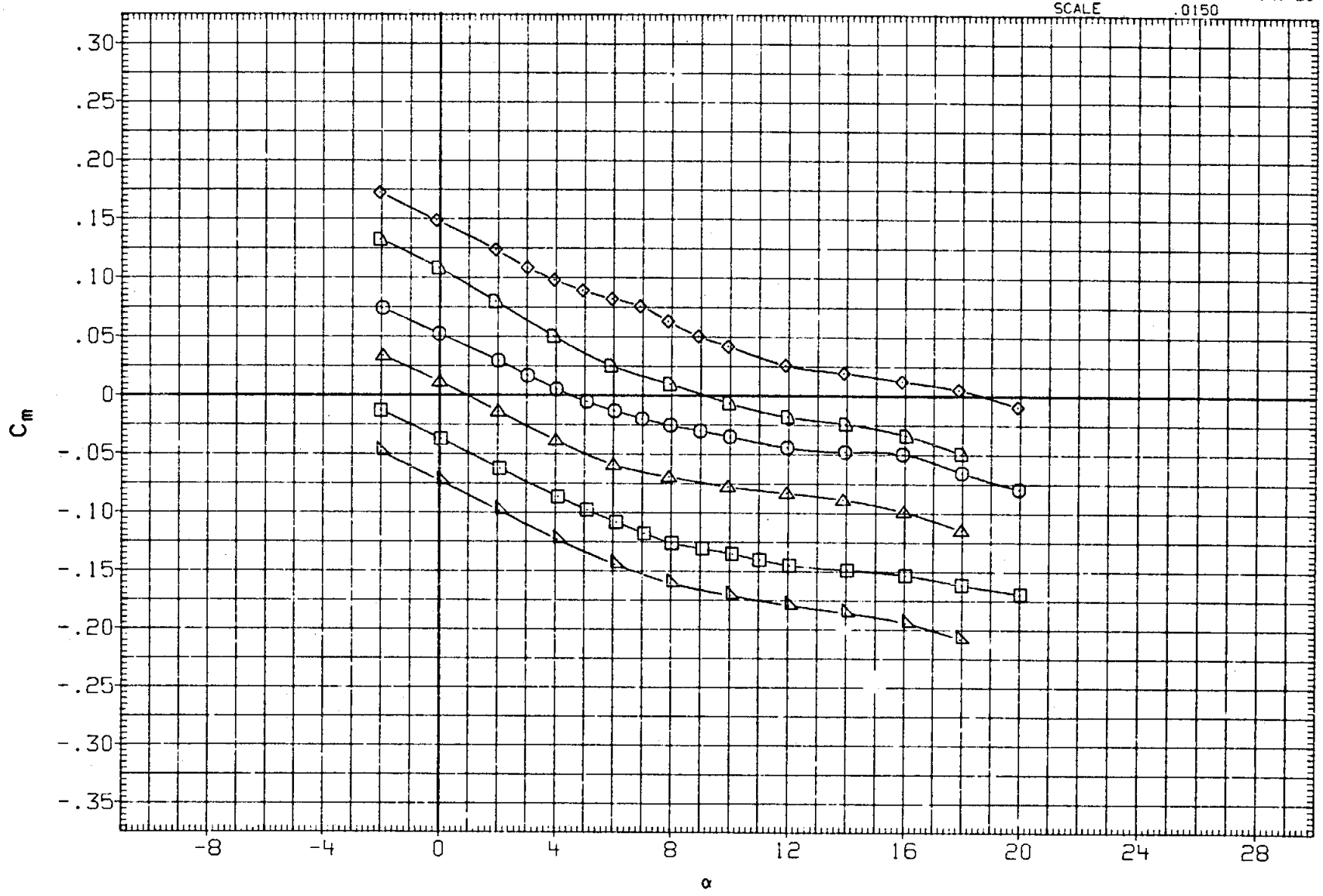

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

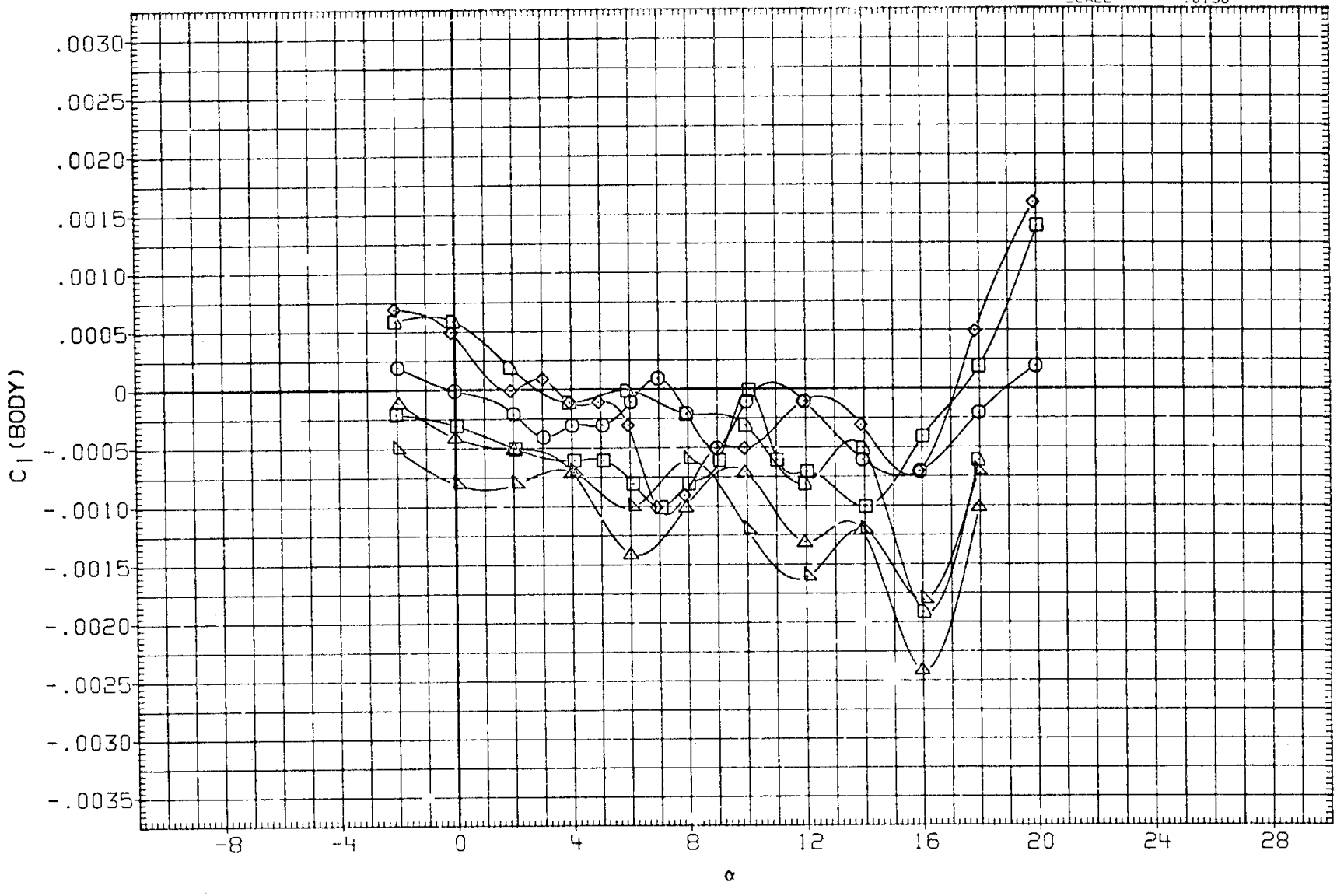

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◗	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

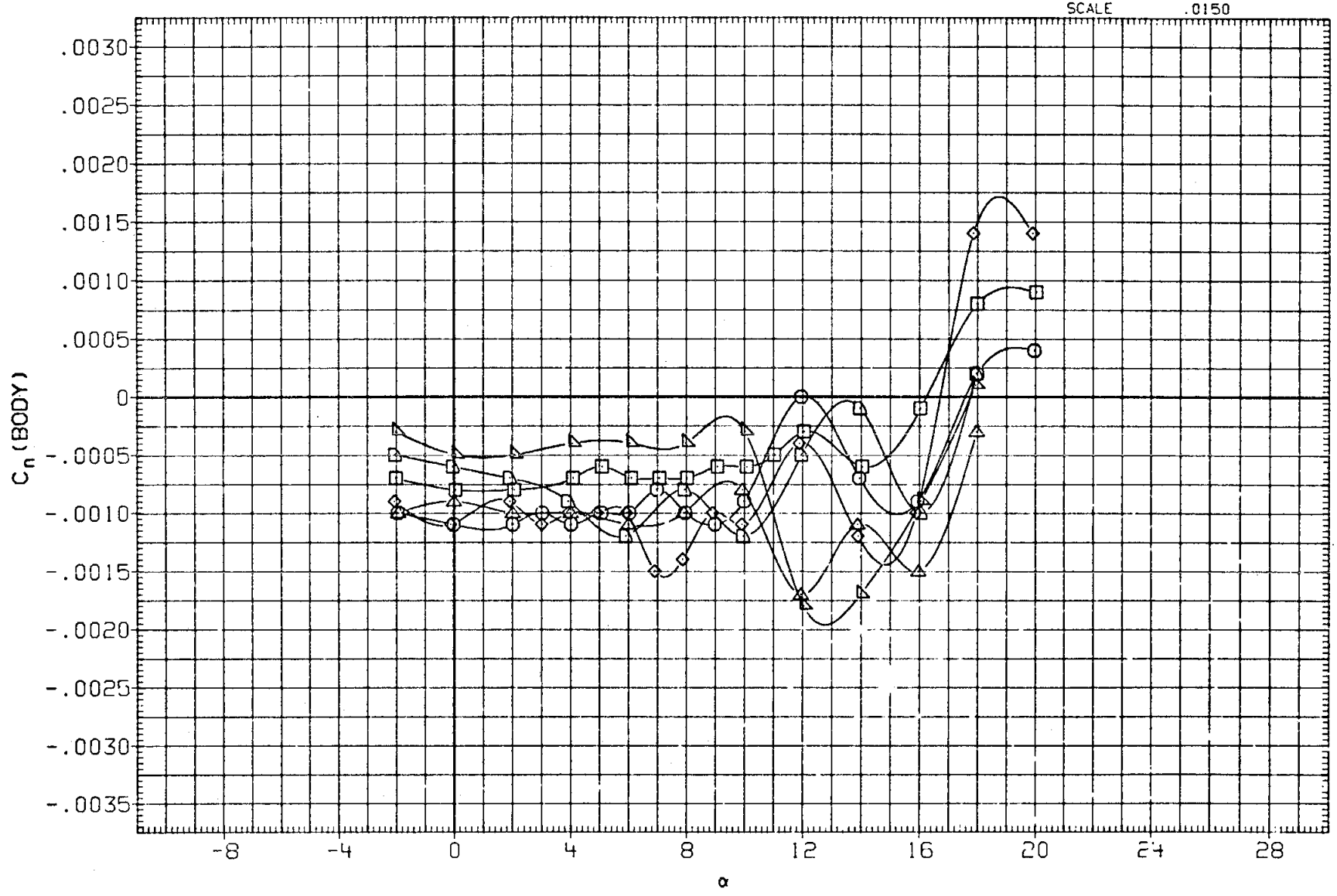

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B005	□	ARC 200-1 11(LA77) OV101	25.000	.000	.000	10.000
R2B006	◇	ARC 200-1 11(LA77) OV101	25.000	.000	.000	-10.000
R2B161	△	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B164	◺	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	10.000
R2B162	◻	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

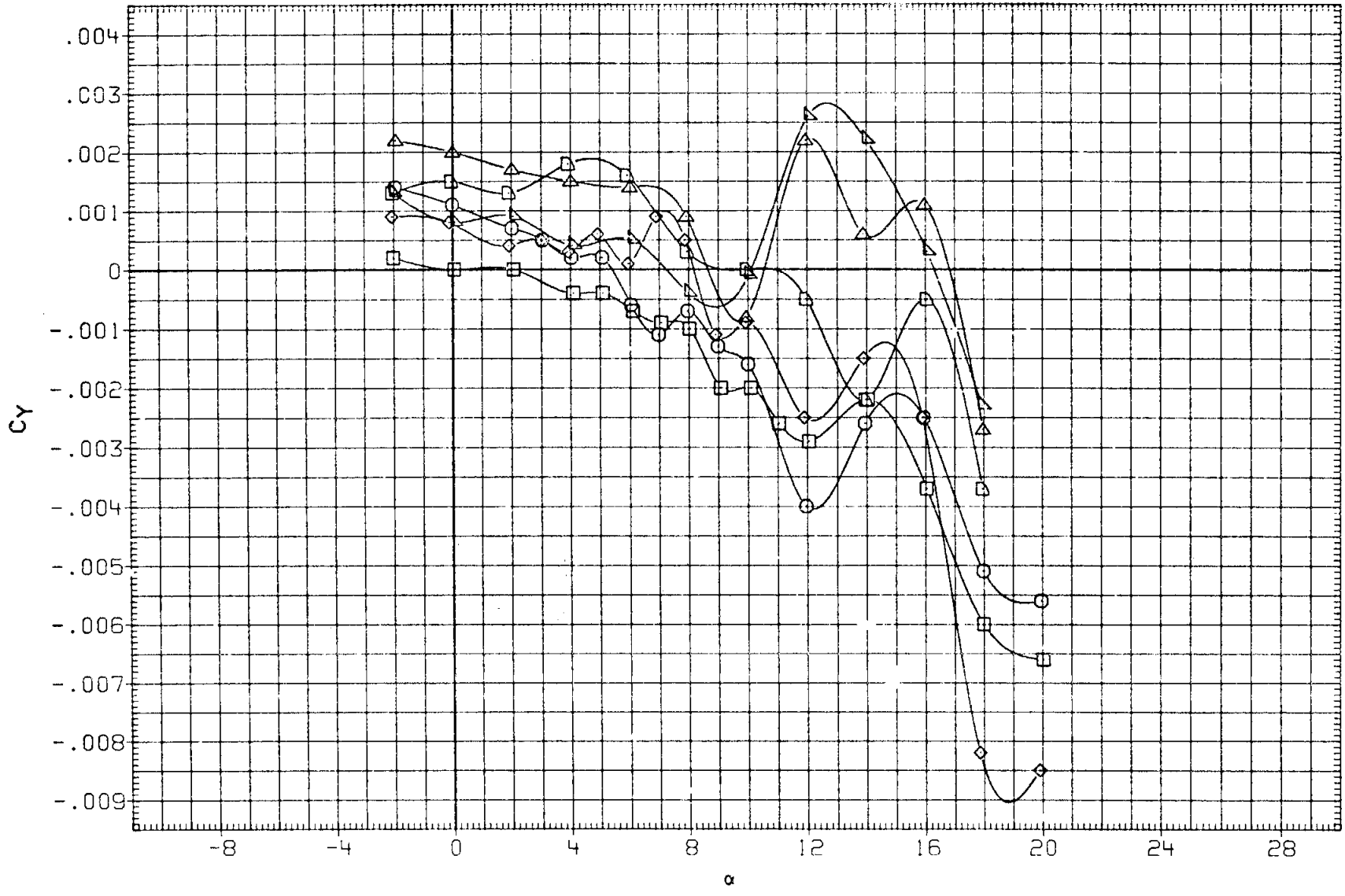

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

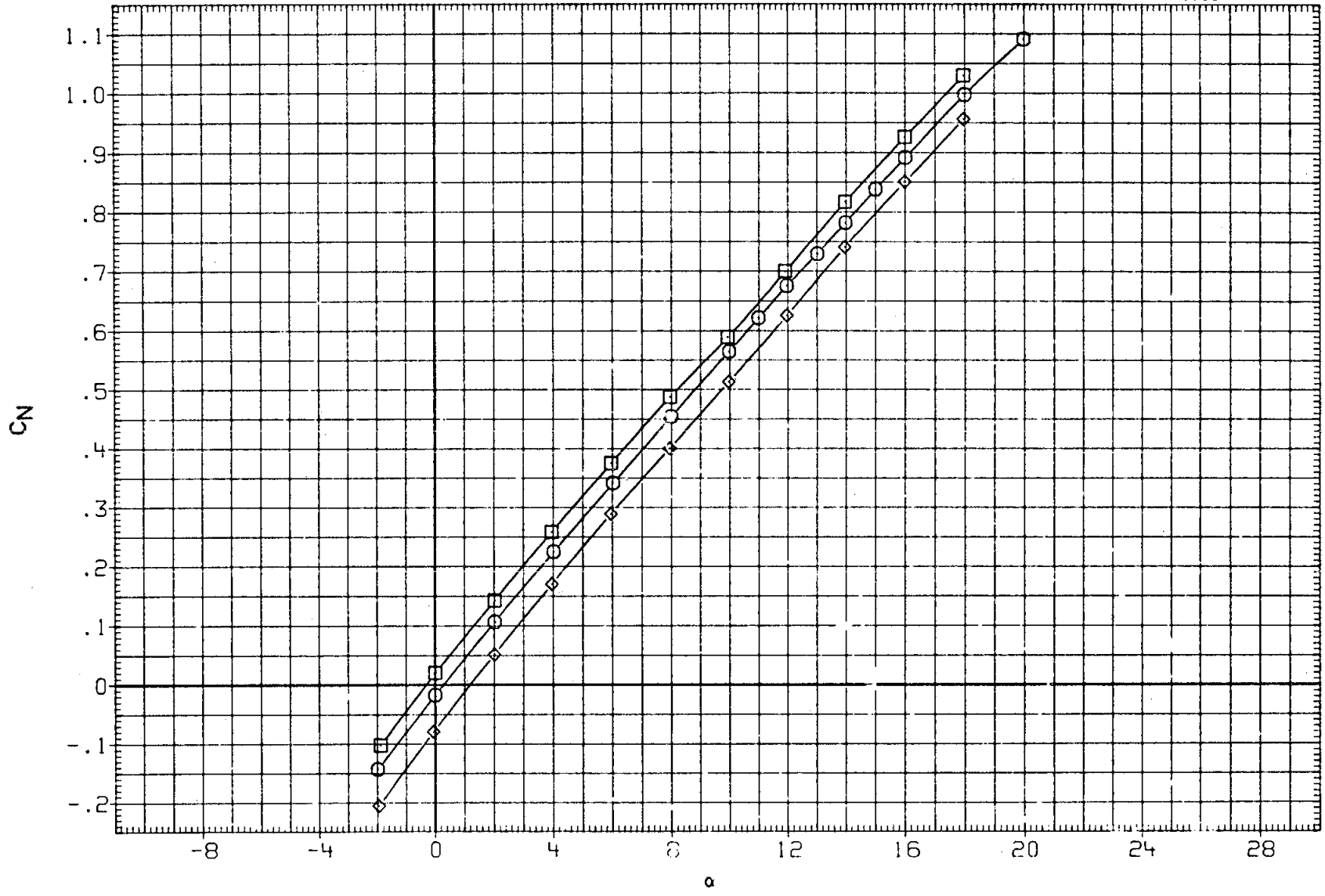

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R28001	○	ARC 200-1 11(LA77) OV101
R28155	□	ARC 200-1 11(LA77) OV101
R28156	◇	ARC 200-1 11(LA77) OV101

SPOILER	BDFLAP	A BON	ELEVON
25.000	.000	.000	.000
25.000	16.300	.000	.000
25.000	16.300	.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

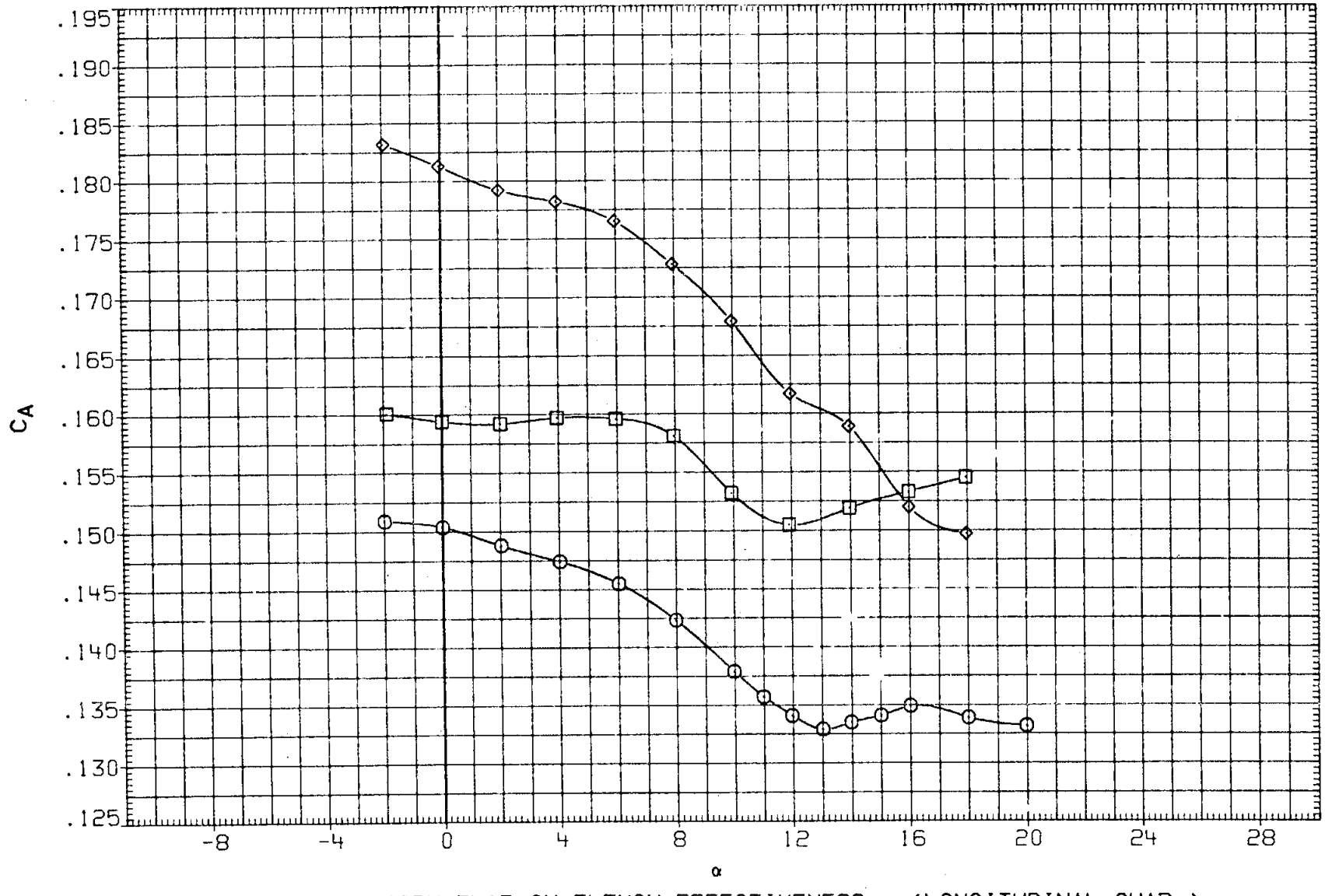

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

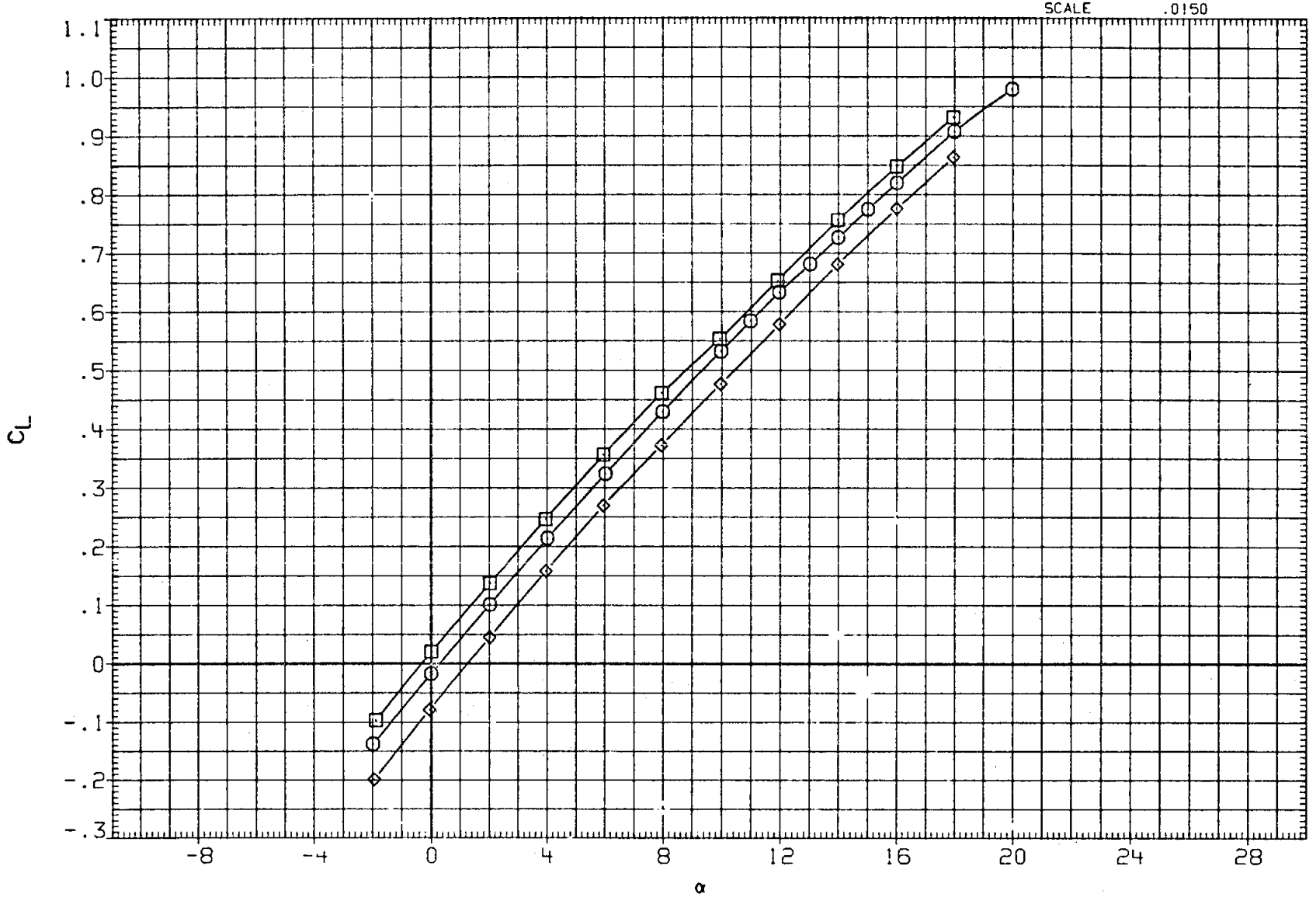

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILERON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

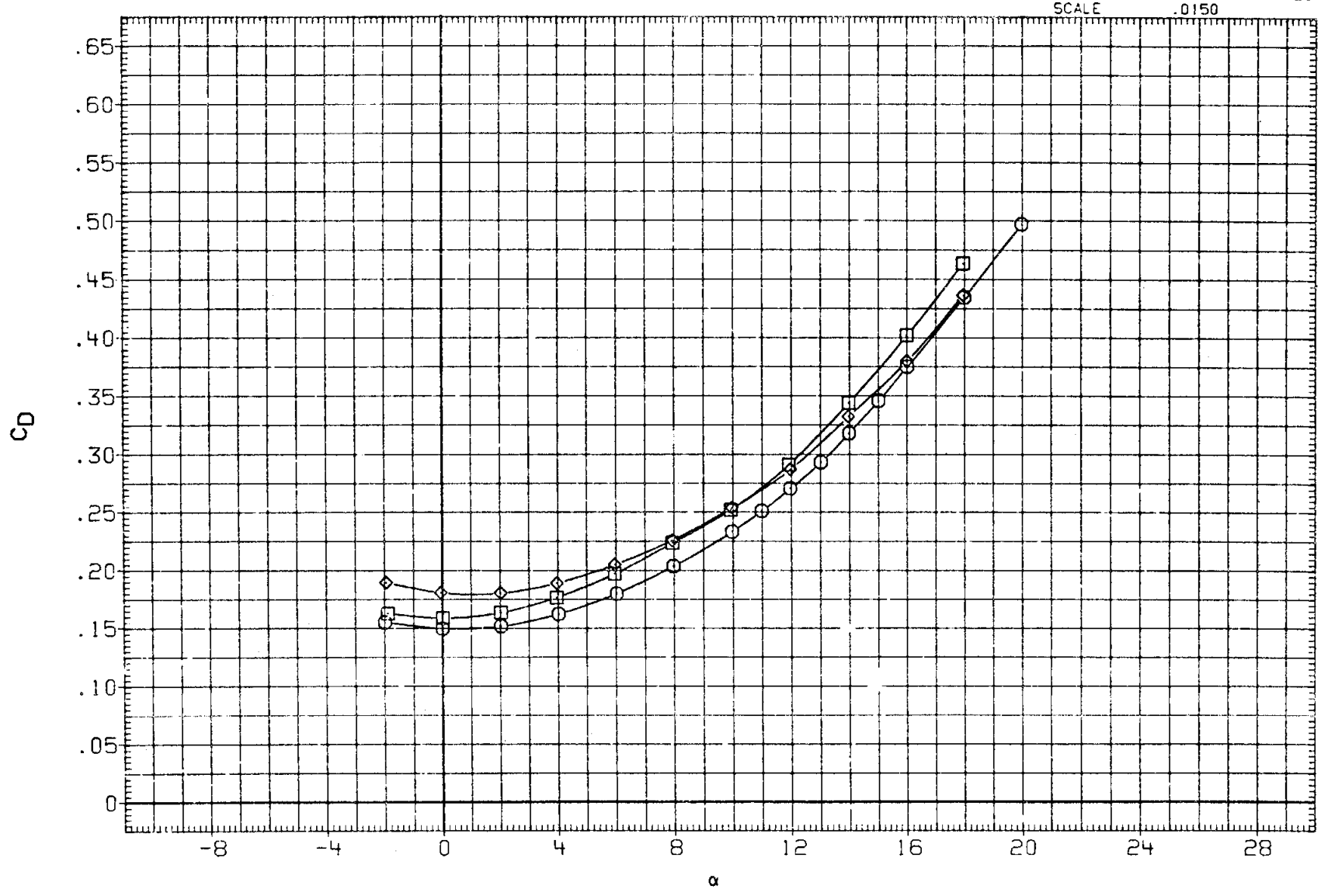

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

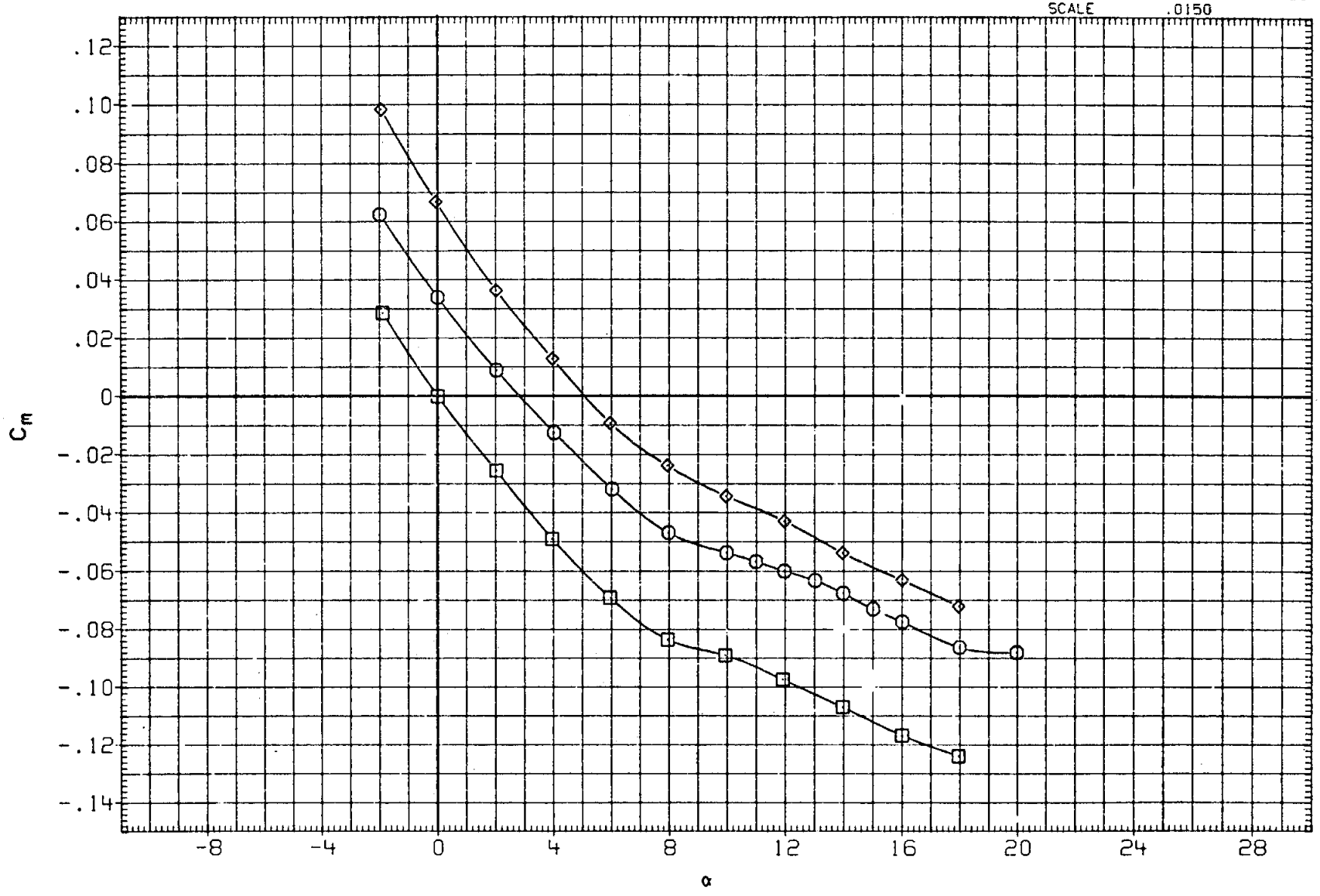

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

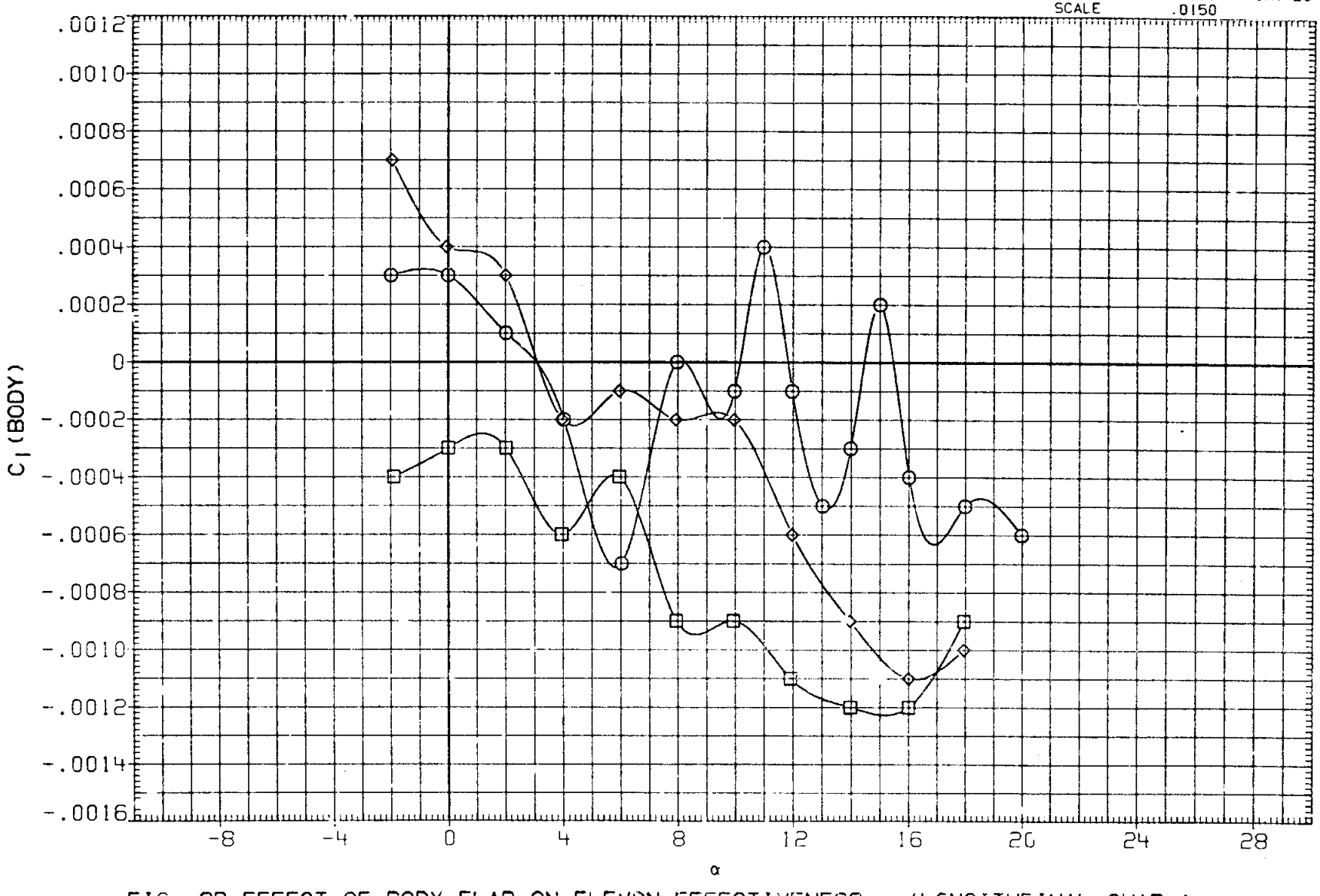

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

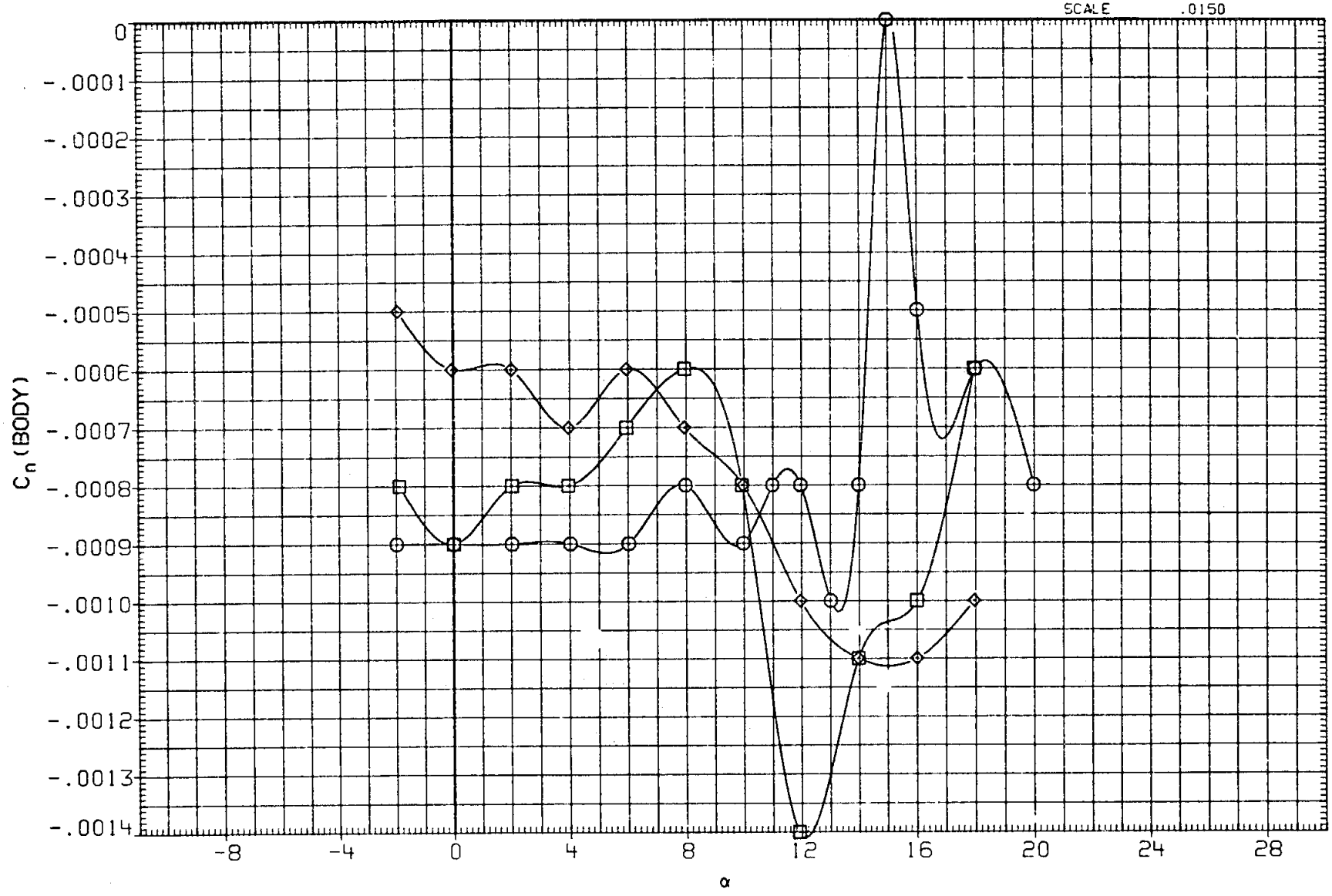

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	SPDBRK	BDFLAP	AILRON	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	25.000	.000	.000	.000
R2B155	□	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	.000
R2B156	◇	ARC 200-1 11(LA77) OV101	25.000	16.300	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

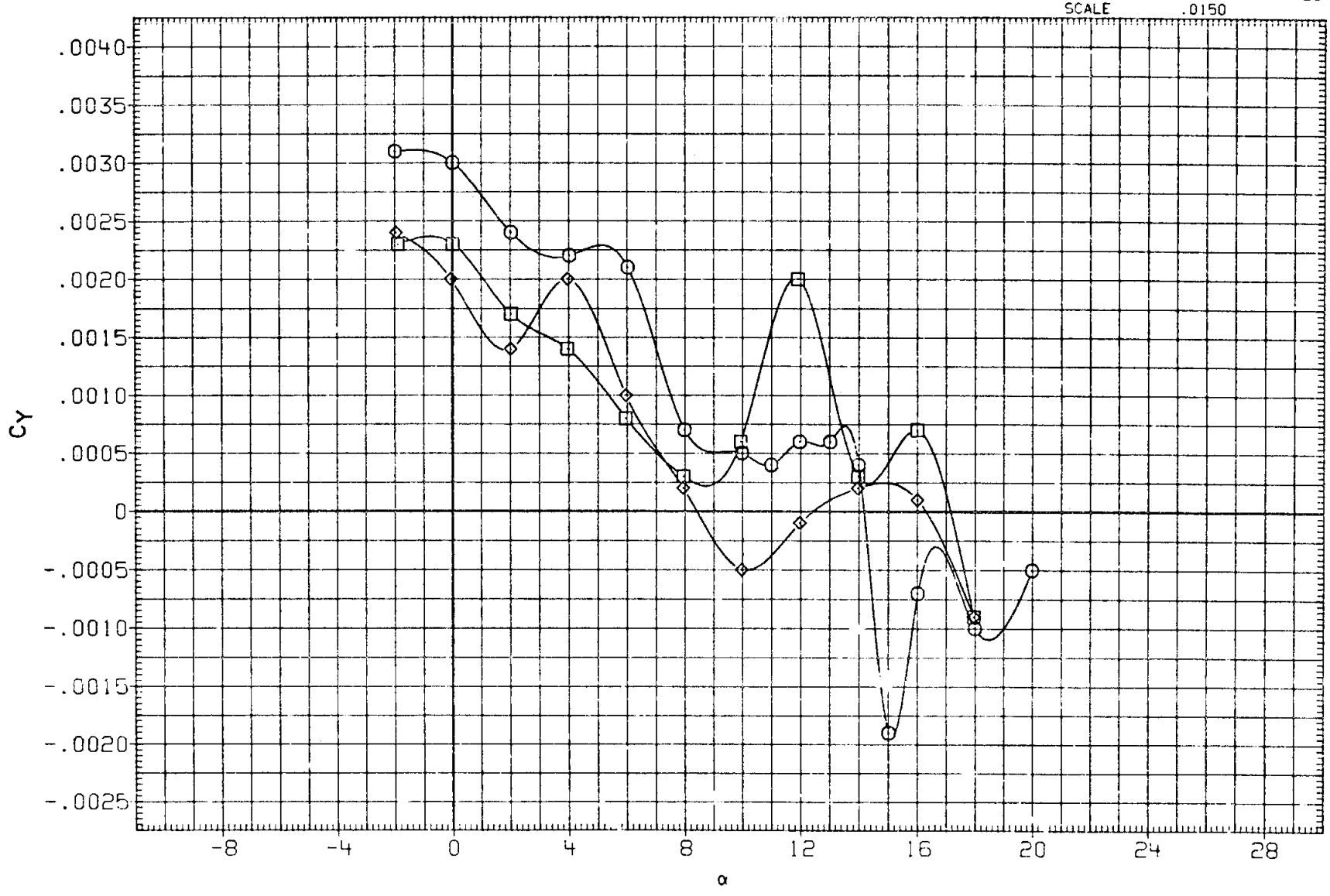

FIG. 8B EFFECT OF BODY FLAP ON ELEVON EFFECTIVENESS (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D2B103	.000
□	.000	ELEVON	.000			D2B168	15.000
◇	2.000	AILRON	.000			D2B018	25.000
◁	4.000	RUDDER	.000			D2B176	40.000
△	6.000	BDFLAP	.000			D2B08[illegible]	55.000
◺	8.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

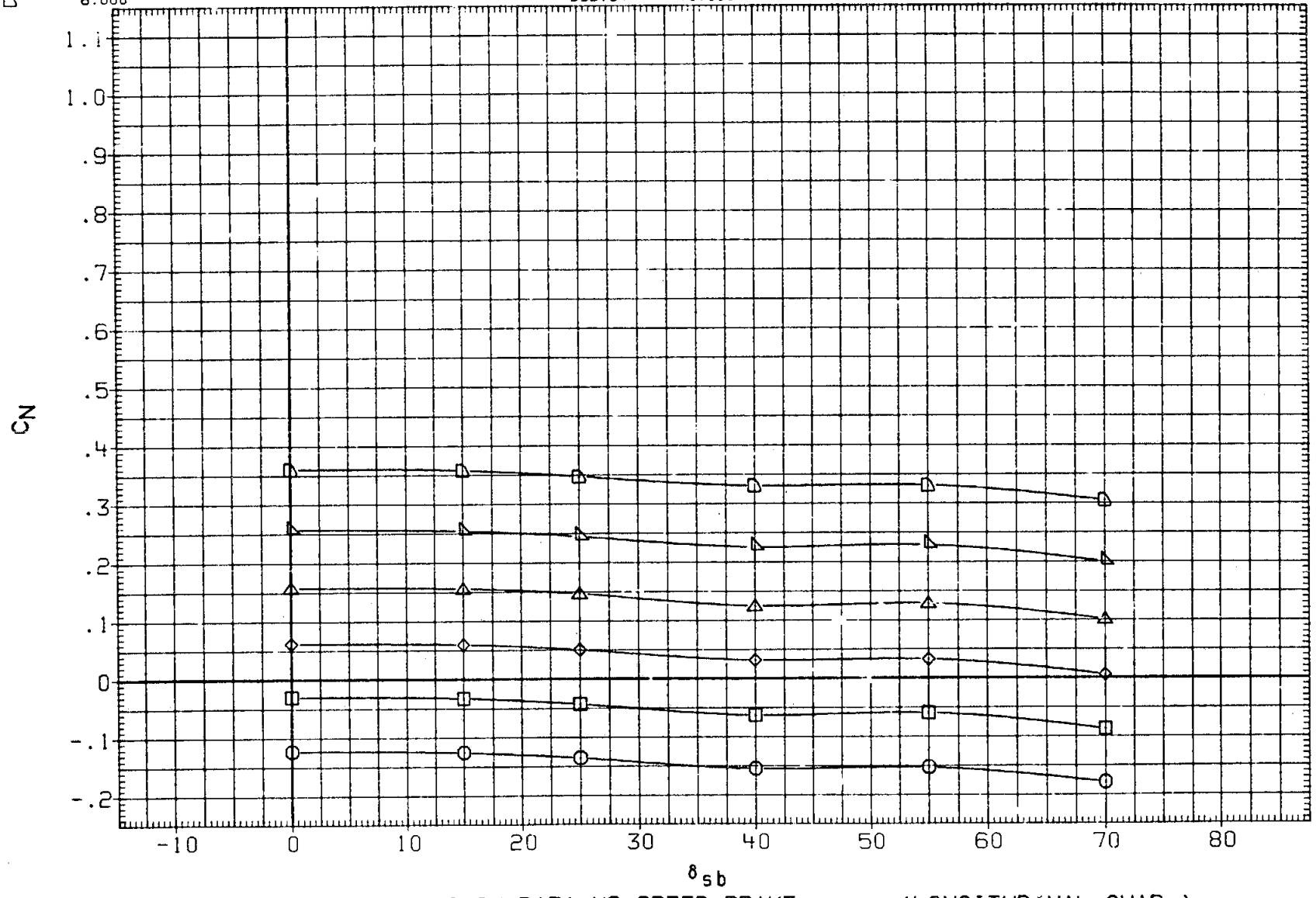

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPOILER
○	10.000	BETA	.000	RN/L	7.000	D28103	.000
□	11.000	ELEVON	.000			D28168	15.000
◇	12.000	AILRON	.000			D28018	25.000
△	13.000	RUDDER	.000			D28176	40.000
◺	14.000	BDFLAP	.000			D28080	55.000
◺	15.000					D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

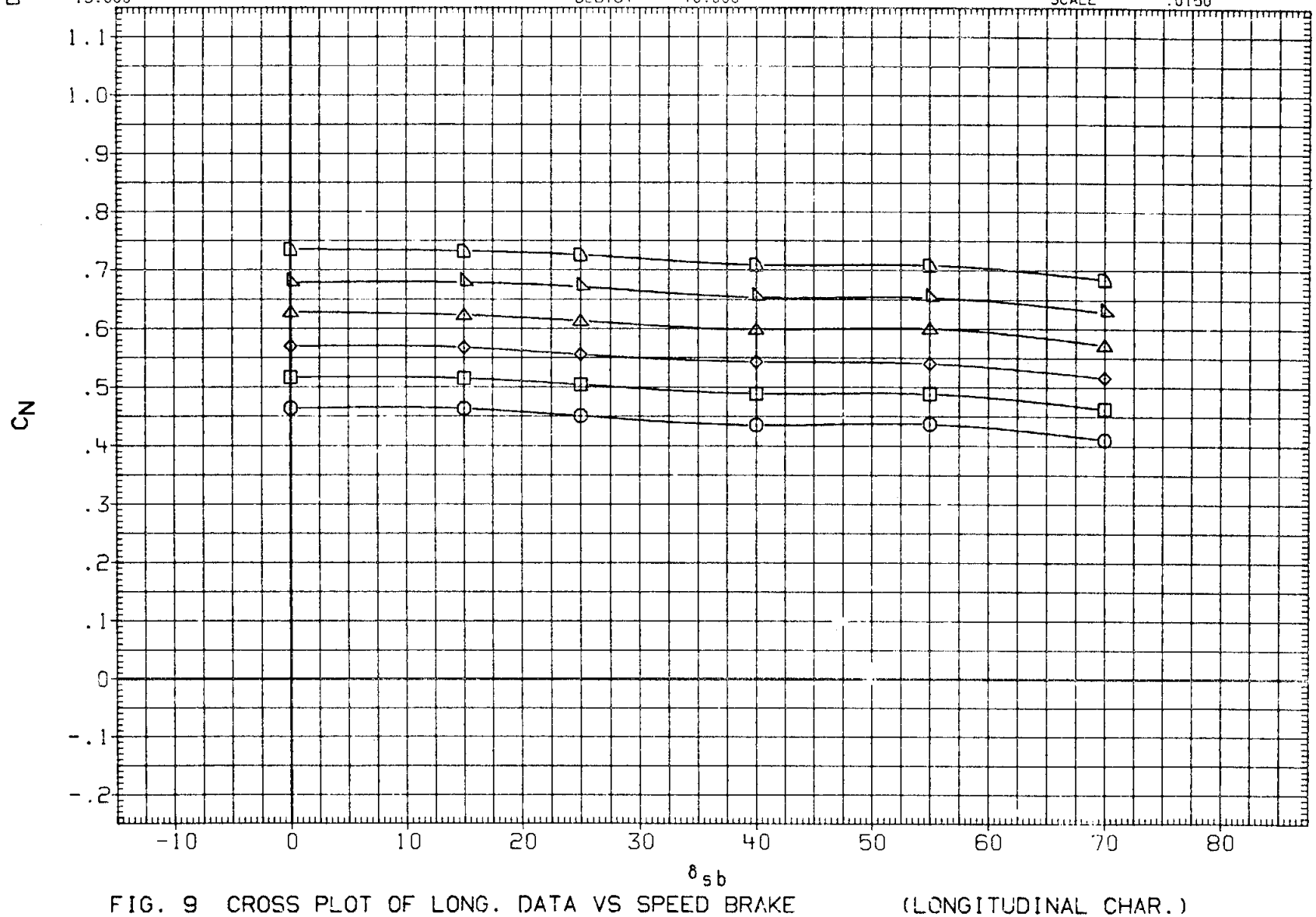

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	16.000	BETA	.000	RN/L	7.000	D2B103	.000
□	18.000	ELEVON	.000			D2B168	15.000
◇	20.000	AILRON	.000			D2B018	25.000
		RUDDER	.000			D2B176	40.000
		BDFLAP	.000			D2B080	55.000
						D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

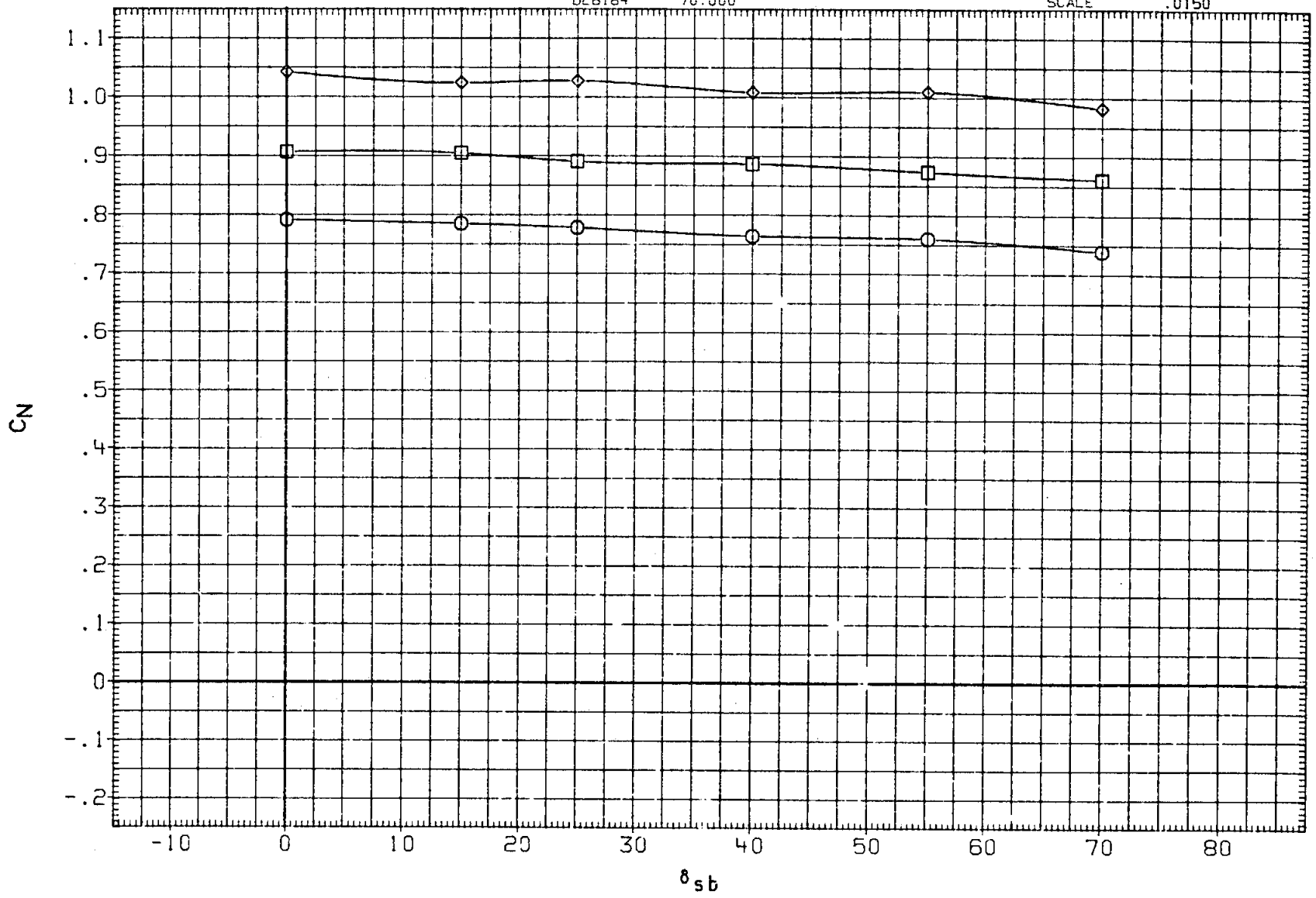

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D2B103	.000
□	.000	ELEVON	.000			D2B168	15.000
◇	2.000	AILRON	.000			D2B018	25.000
△	4.000	RUDDER	.000			D2B176	40.000
◺	6.000	BDFLAP	.000			D2B080	55.000
◺	8.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

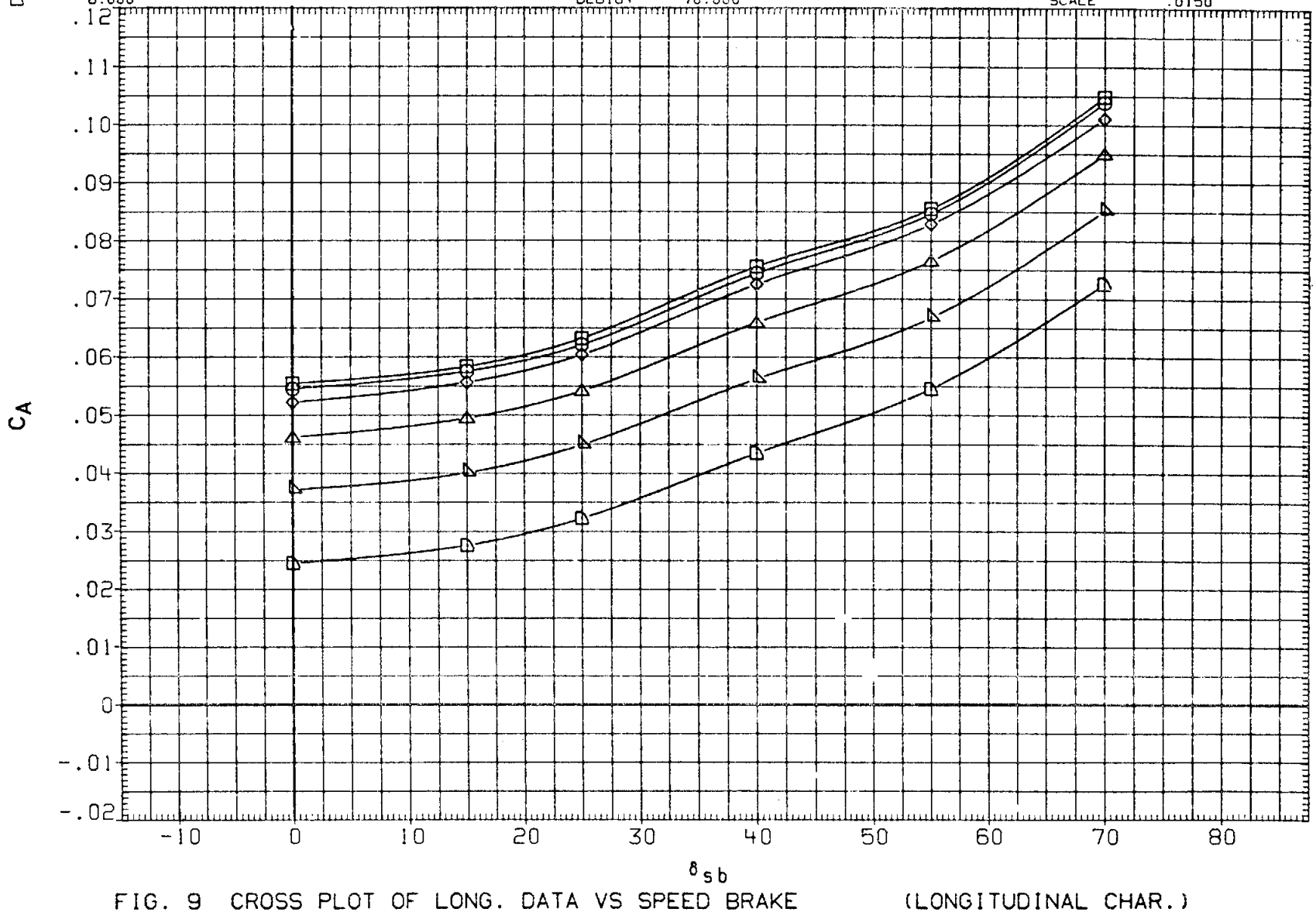

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	10.000	BETA	.000	RN/L	7.000	D2B103	.000
□	11.000	ELEVON	.000			D2B168	15.000
◇	12.000	AILRON	.000			D2B018	25.000
◁	13.000	RUDDER	.000			D2B176	40.000
△	14.000	BDFLAP	.000			D2B080	55.000
▷	15.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

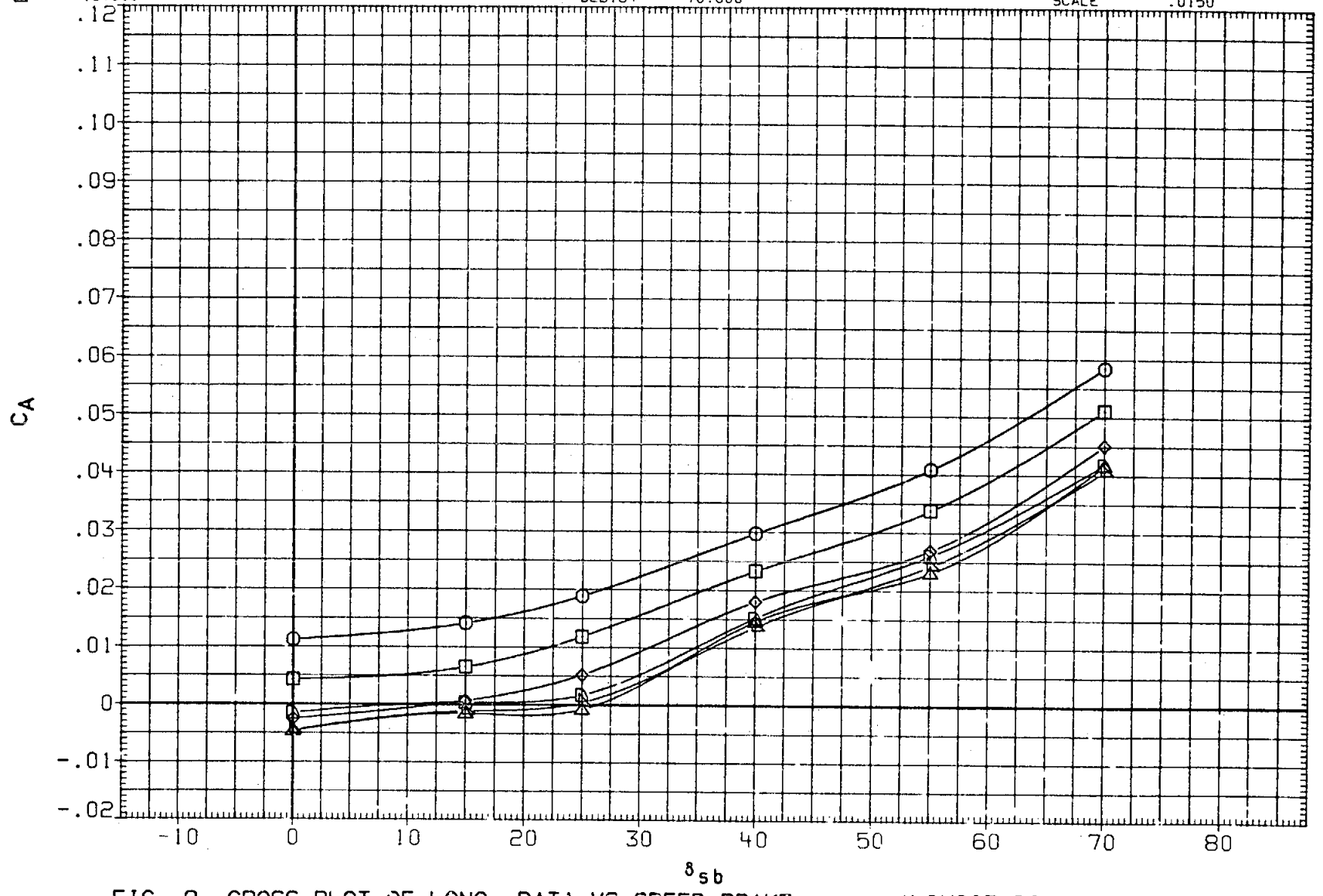

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPOERK
○	16.000	BETA	.000	RN/L	7.000	D2B103	.000
□	18.000	ELEVON	.000			D2B168	15.000
◇	20.000	AILRON	.000			D2B018	25.000
		RUDDER	.000			D2B176	40.000
		BDFLAP	.000			D2B080	55.000
						D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

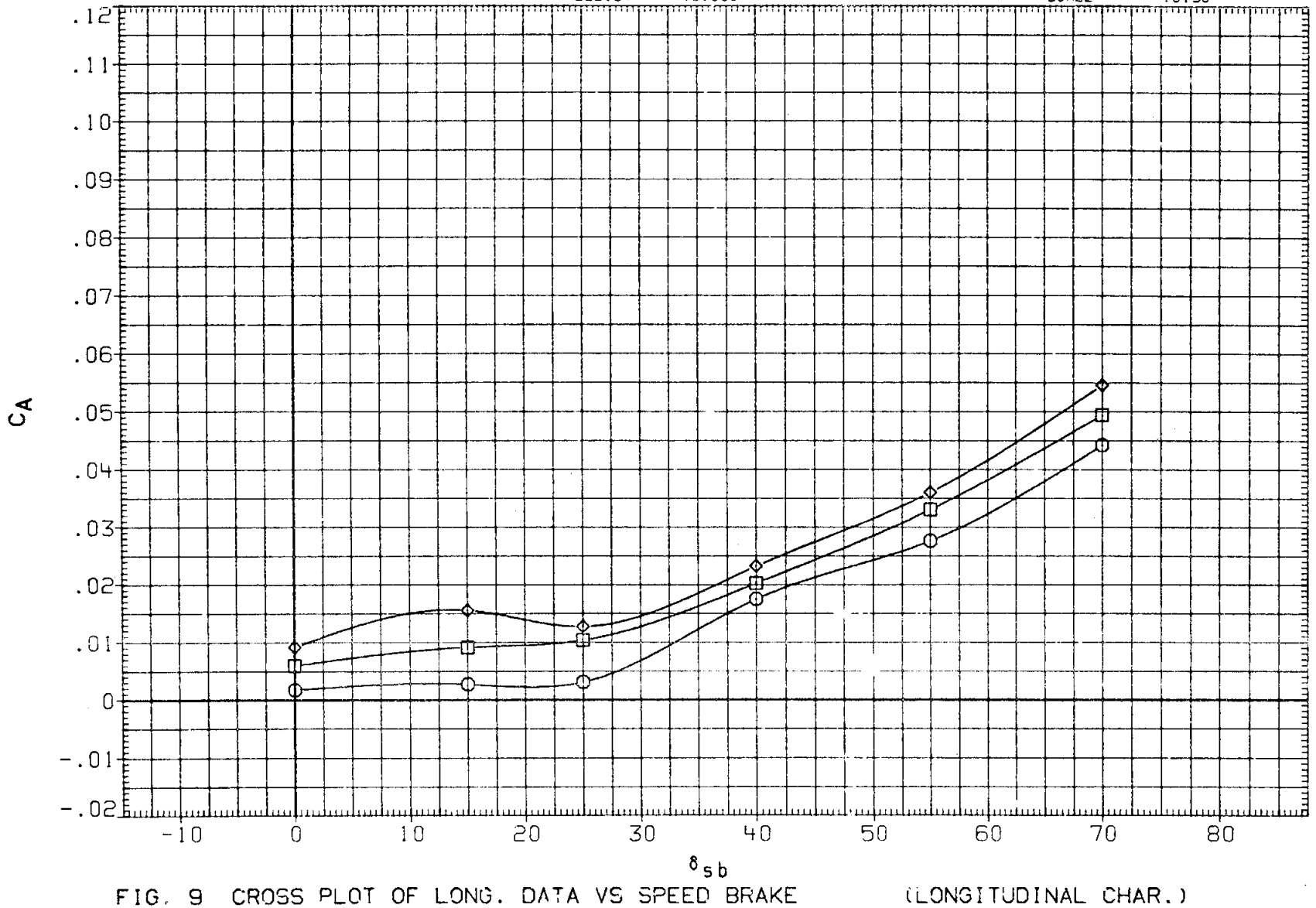

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPOBRK
○	-2.000	BETA	.000	RN/L	7.000	D2B103	.000
□	.000	ELEVON	.000			D2B168	15.000
◇	2.000	AILRON	.000			D2B018	25.000
◁	4.000	RUDDER	.000			D2B176	40.000
△	6.000	BDFLAP	.000			D2B080	55.000
▷	8.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

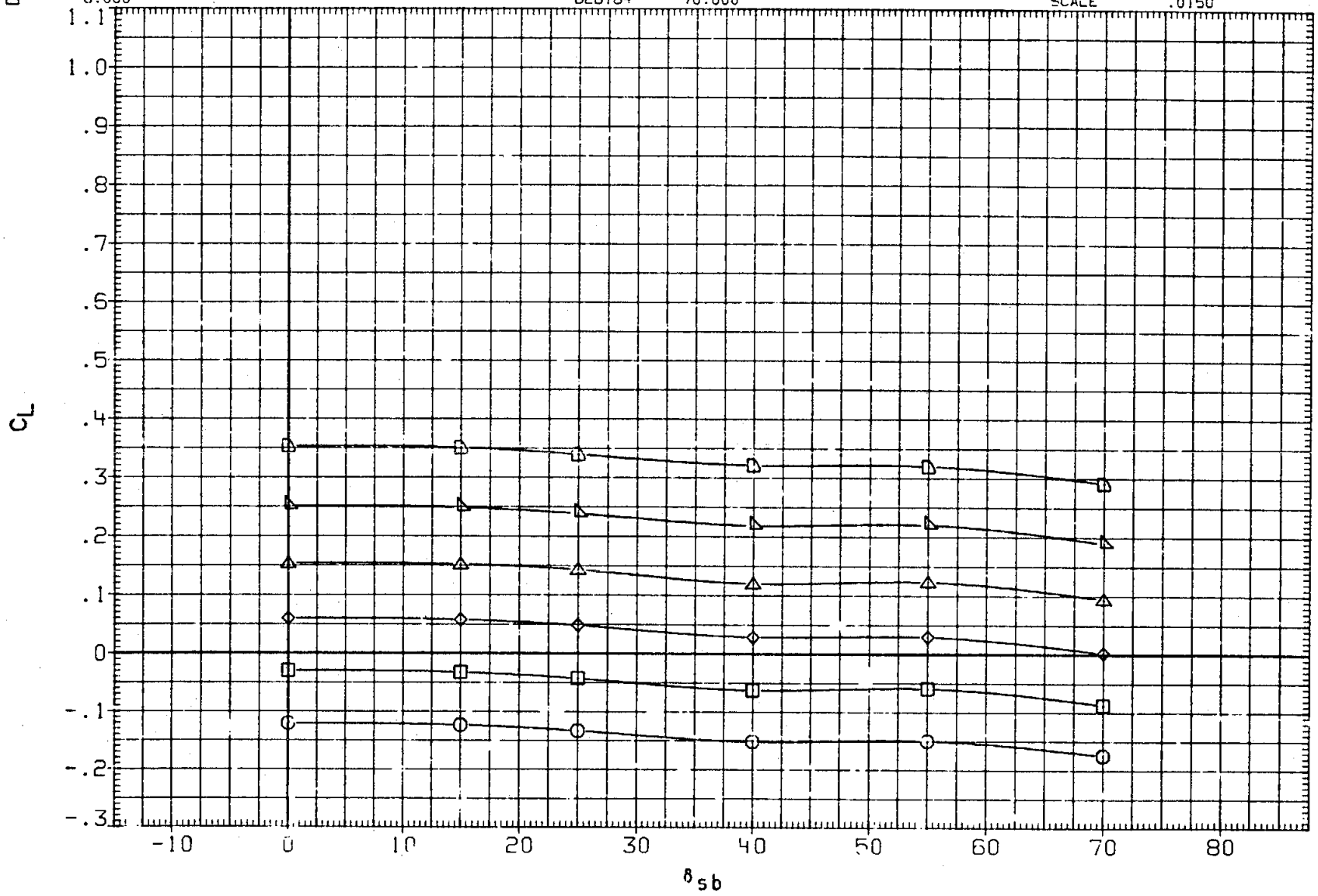

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	S-DBRK
○	10.000	BETA	.000	RN/L	7.000	D2B103	.000
□	11.000	ELEVON	.000			D2B168	15.000
◇	12.000	AILRON	.000			D2B018	25.000
△	13.000	RUDDER	.000			D2B176	40.000
◺	14.000	BDFLAP	.000			D2B[illegible]0	55.000
◺	15.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

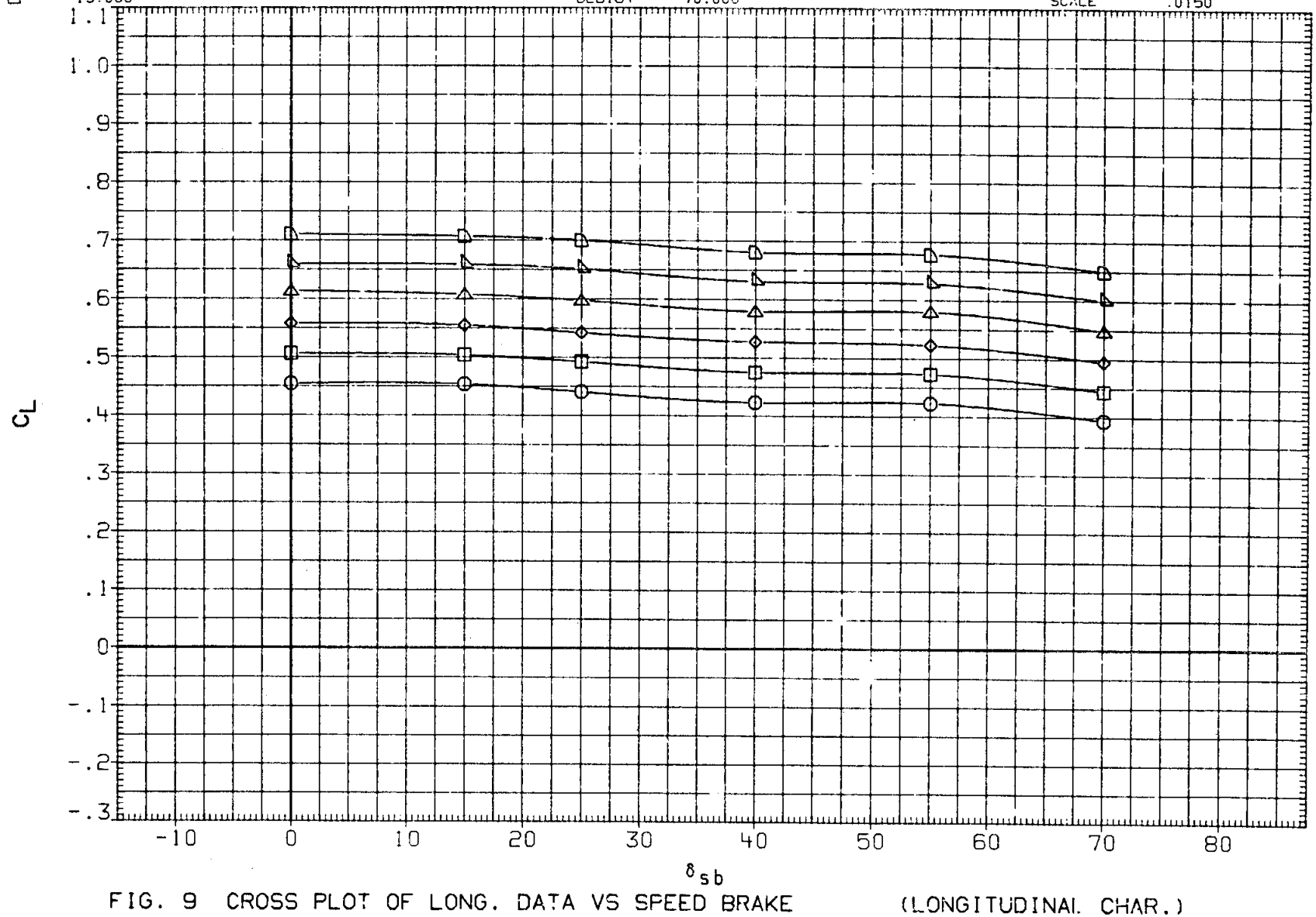

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	16.000	BETA	.000	RN/L	7.000	D2B103	.000
□	18.000	ELEVON	.000			D2B168	15.000
◇	20.000	AILRON	.000			D2B018	25.000
		RUDDER	.000			D2B176	40.000
		BDFLAP	.000			D2B080	55.000
						D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

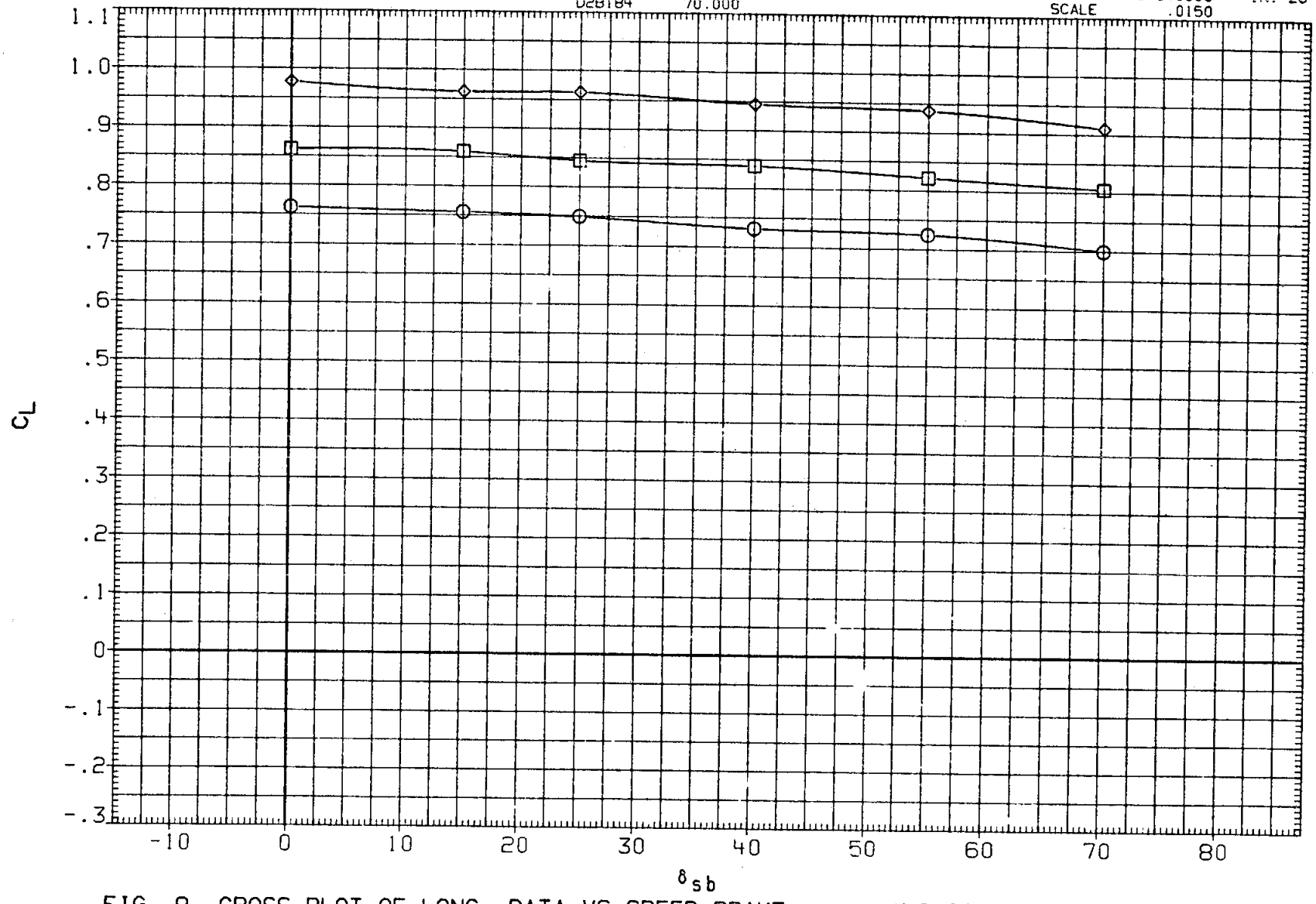

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D2B103	.000
□	.000	ELEVON	.000			D2B168	15.000
◇	2.000	AILRON	.000			D2B018	25.000
△	4.000	RUDDER	.000			D2B176	40.000
◁	6.000	BDFLAP	.000			D2B060	55.000
▷	8.000					D2B184	70.000

PEFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

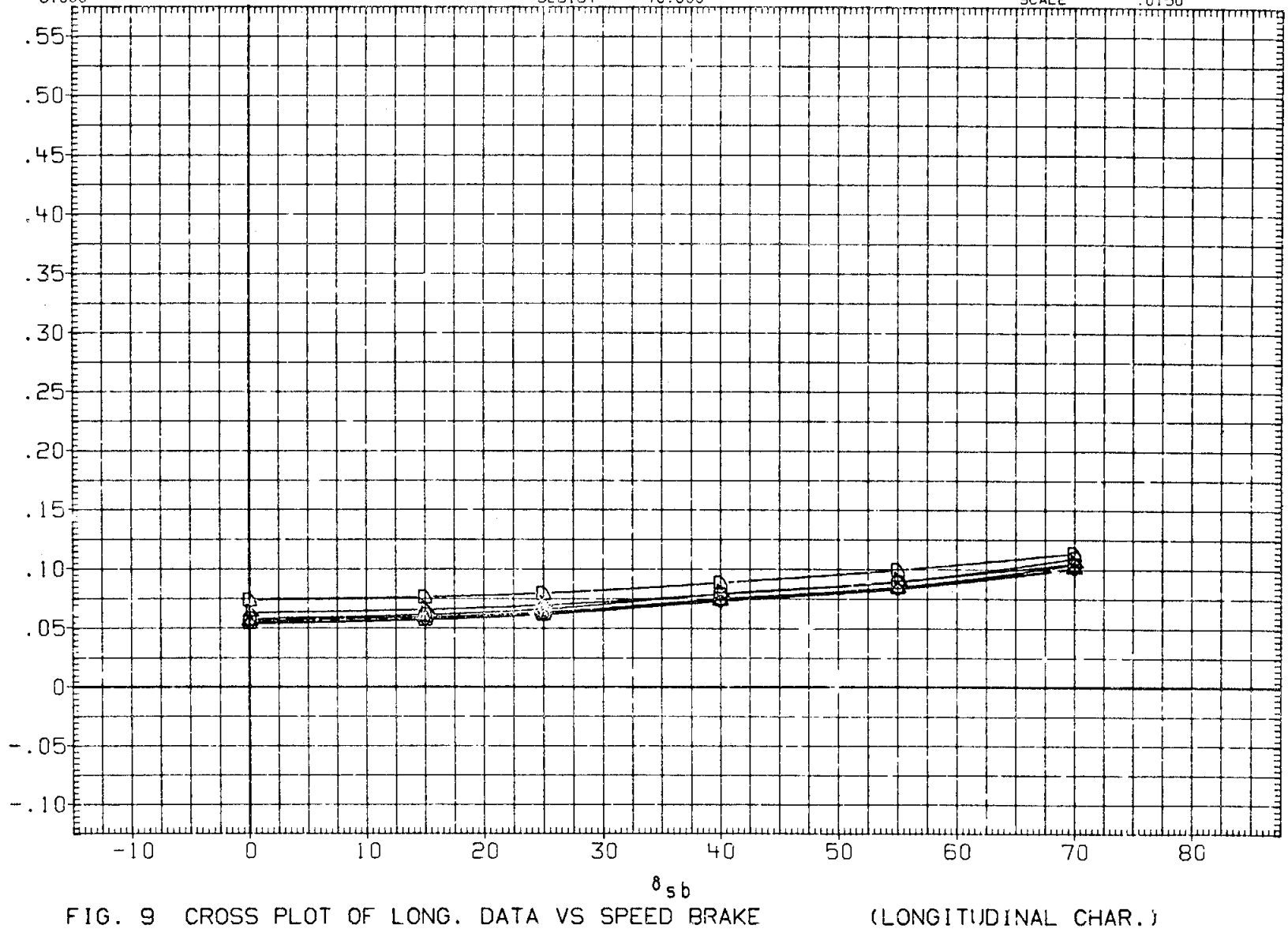

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	10.000	BETA	.000	RN/L	7.000	D2B103	.000
□	11.000	ELEVON	.000			D2B168	15.000
◇	12.000	AILRON	.000			D2B018	25.000
△	13.000	RUDDER	.000			D2B176	40.000
◁	14.000	BOFLAP	.000			D2B080	55.000
▷	15.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

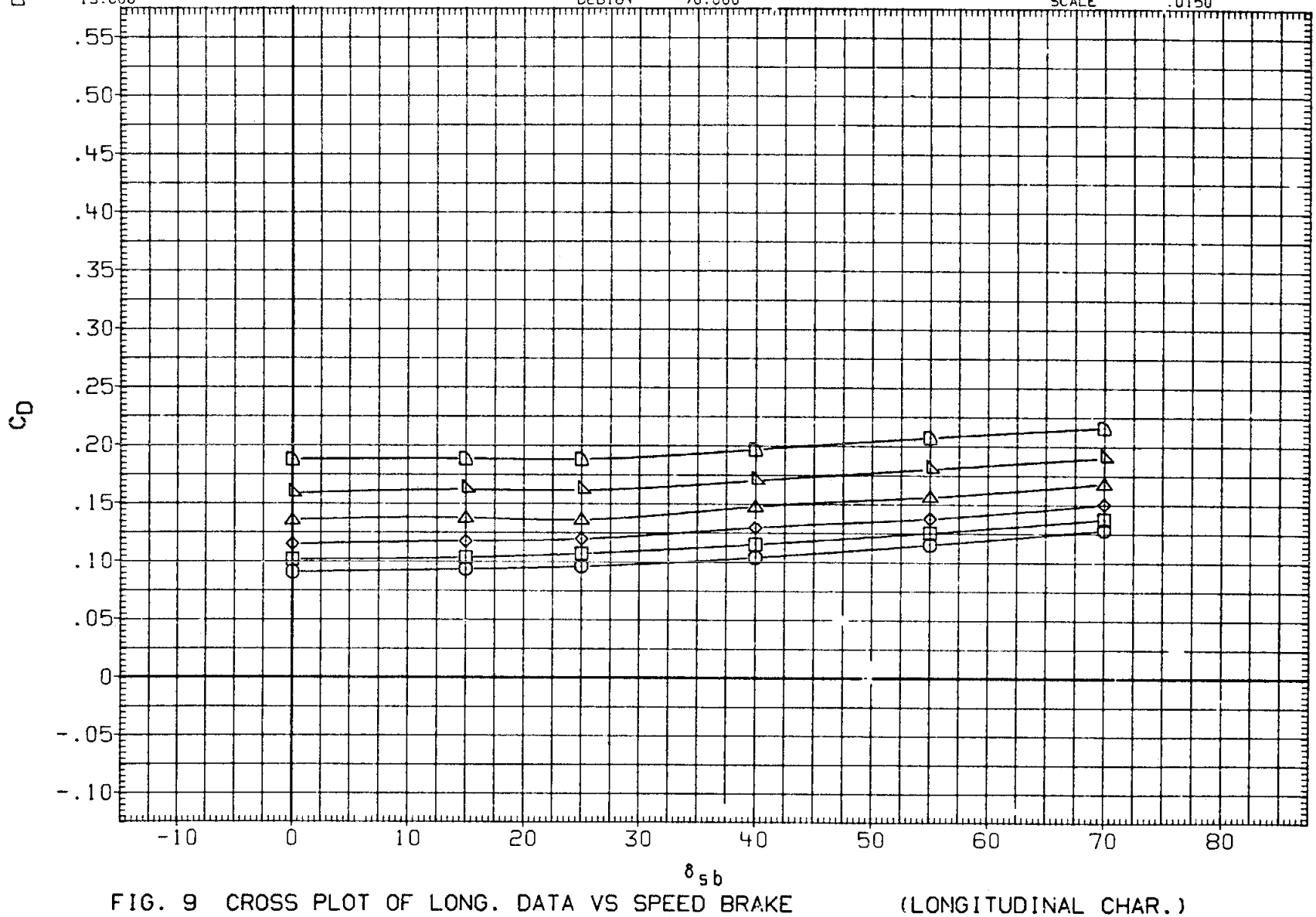

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	16.000	BETA	.000	RN/L	7.000	D2B103	.000
□	18.000	ELEVON	.000			D2B168	15.000
◇	20.000	AILRON	.000			D2B018	25.000
		RUDDER	.000			D2B176	40.000
		BDFLAP	.000			D2B080	55.000
						D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

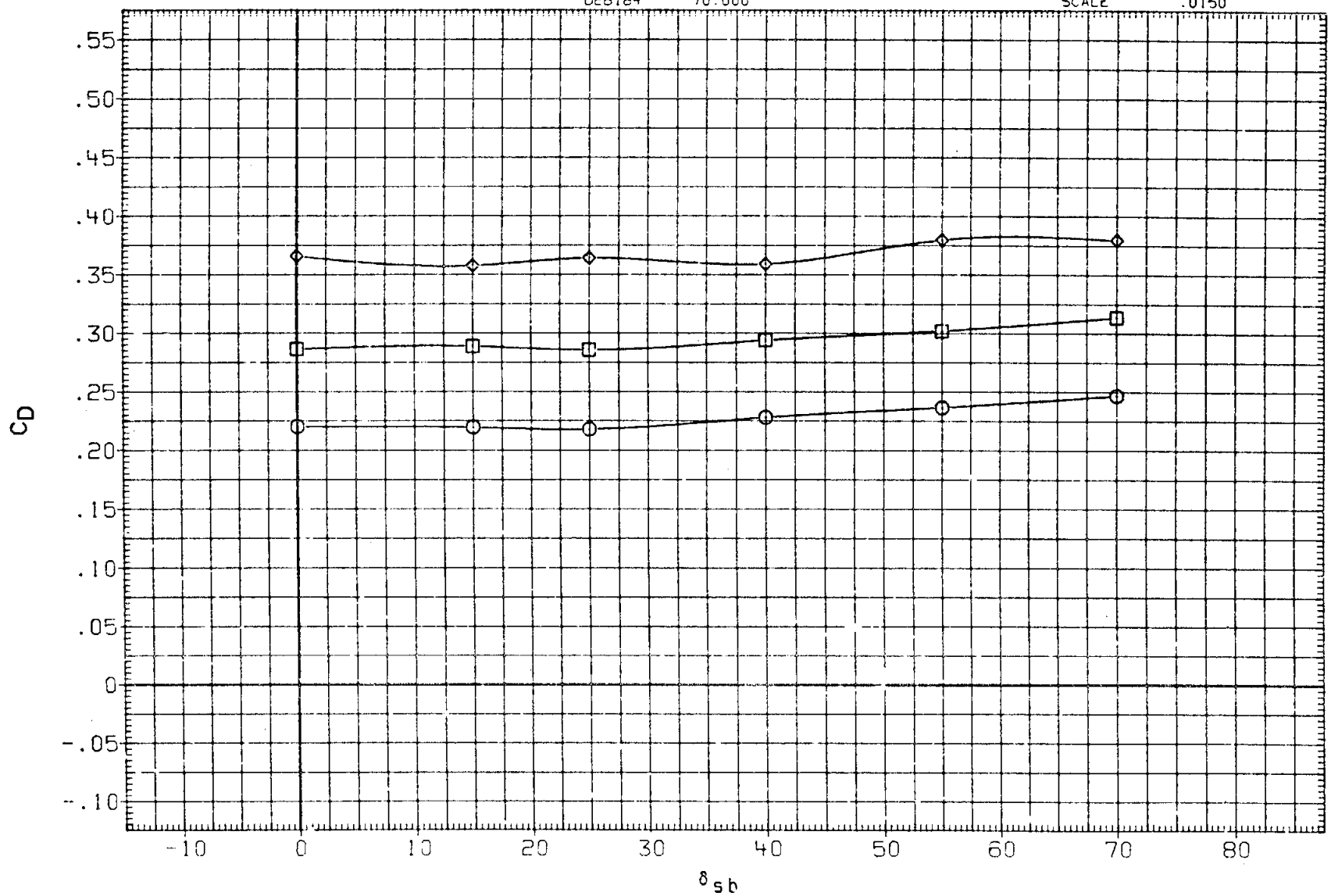

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D2B103	.000
□	.000	ELEVON	.000			D2B168	15.000
◇	2.000	AILRON	.000			D2B018	25.000
◁	4.000	RUDDER	.000			D2B176	40.000
◺	6.000	BDFLAP	.000			D2B080	55.000
▷	8.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

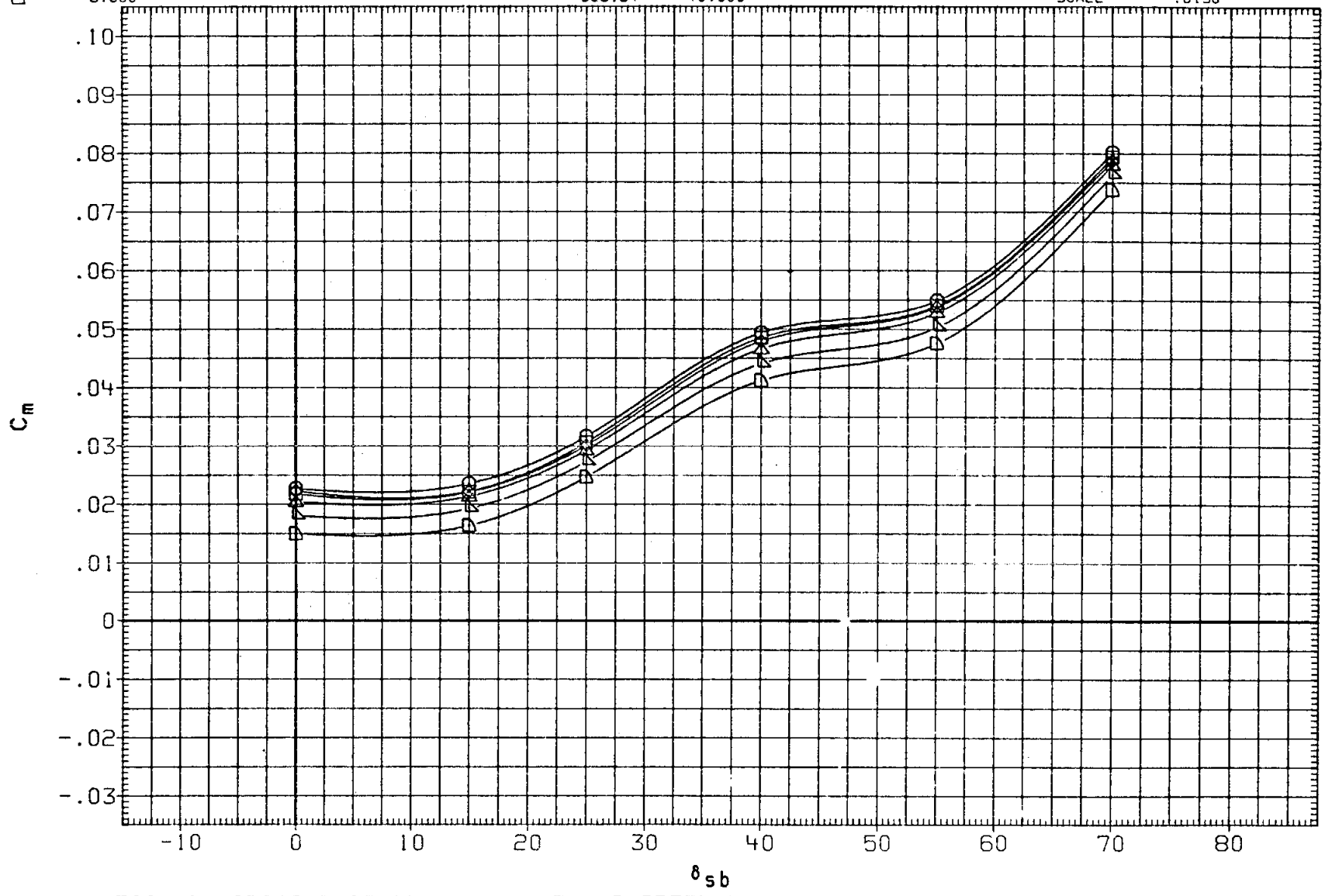

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	10.000	BETA	.000	RN/L	7.000	D28103	.000
□	11.000	ELEVON	.000			D28168	15.000
◇	12.000	AILRON	.000			D28018	25.000
△	13.000	RUDDER	.000			D28176	40.000
◁	14.000	BDFLAP	.000			D28080	55.000
D	15.000					D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

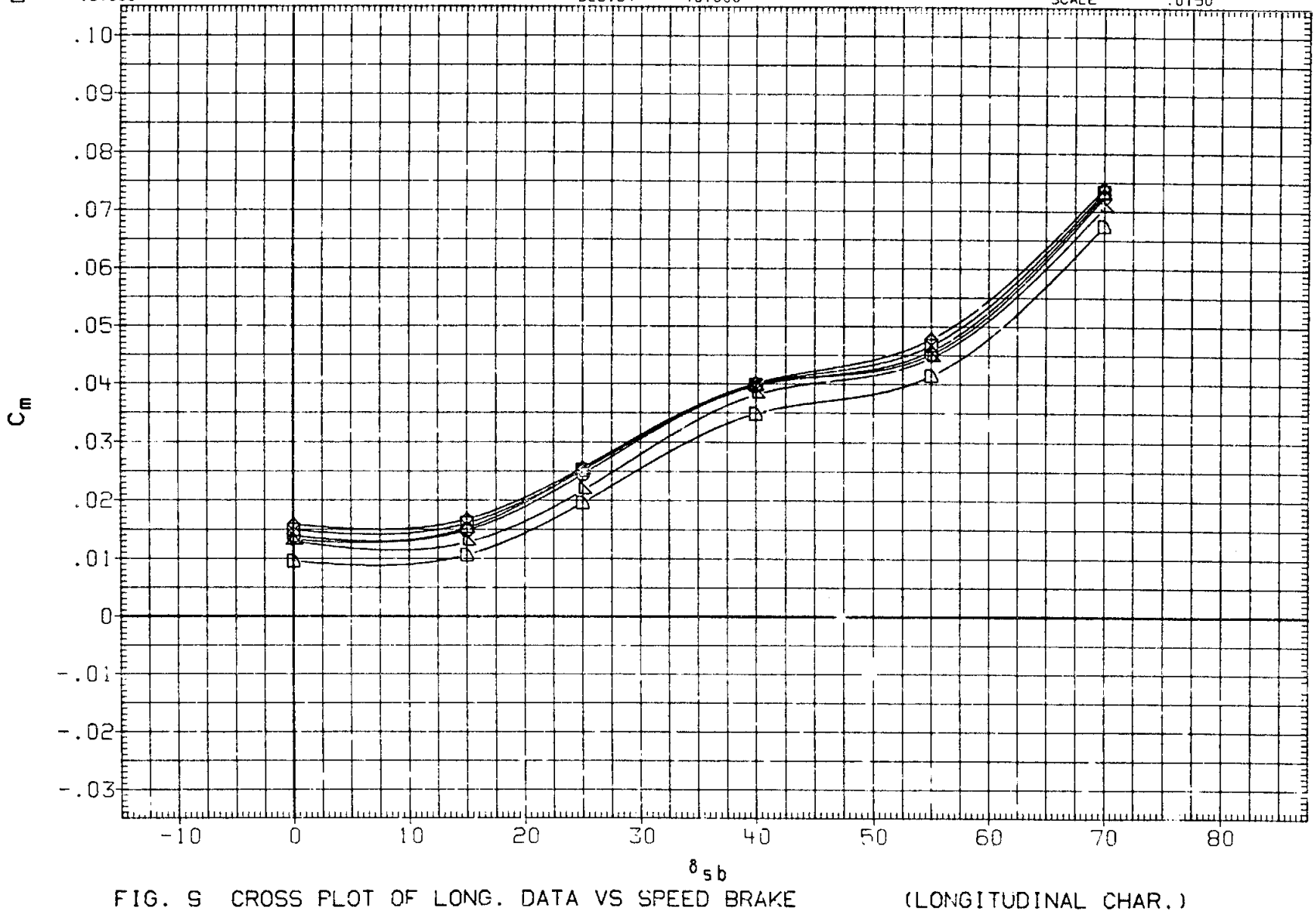

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

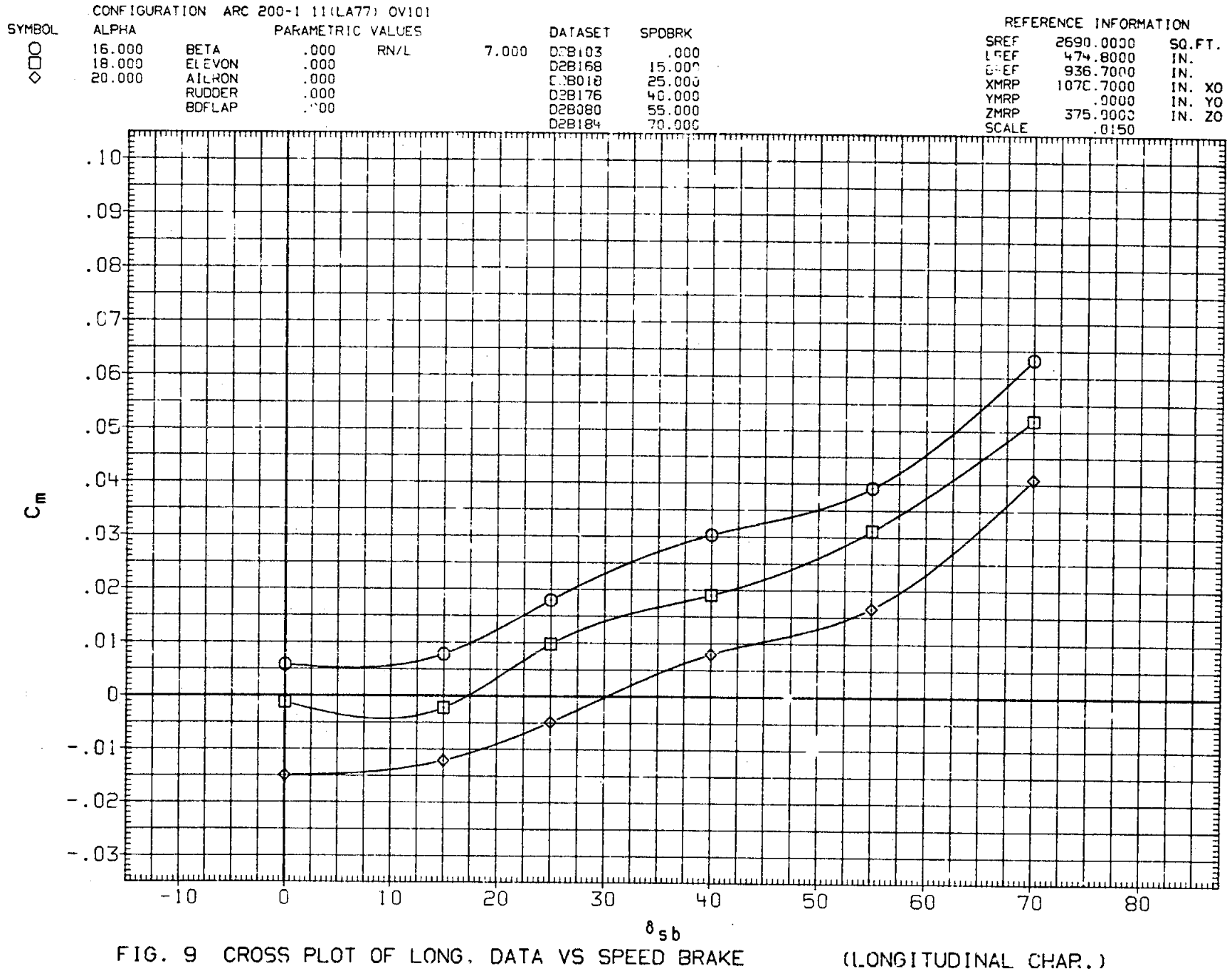

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D28103	.000
□	.000	ELEVON	.000			D28168	15.000
◇	2.000	AILRON	.000			D28018	25.000
△	4.000	RUDDER	.000			D28176	40.000
◁	6.000	BDFLAP	.000			D28080	55.000
▷	8.000					D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

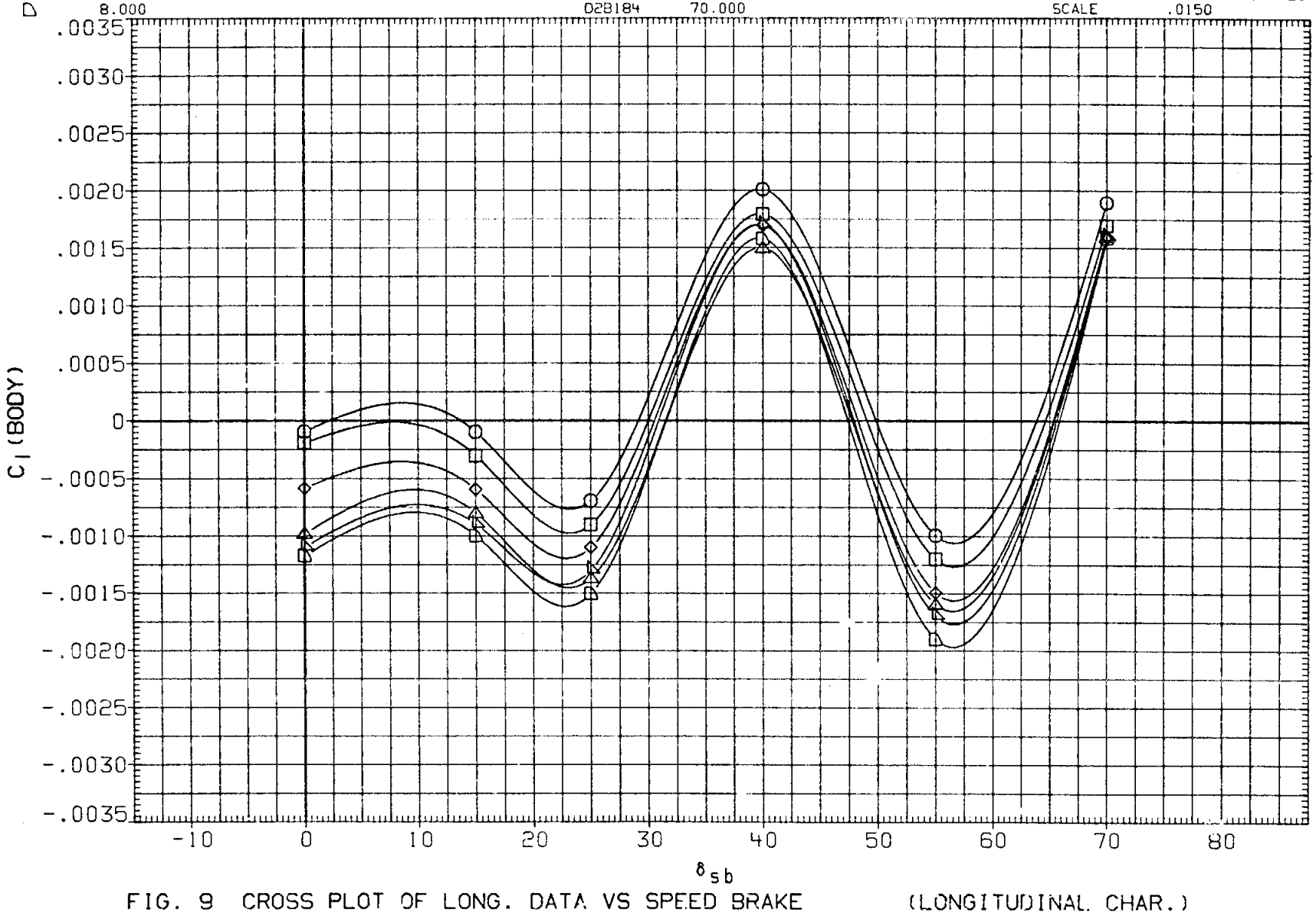

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

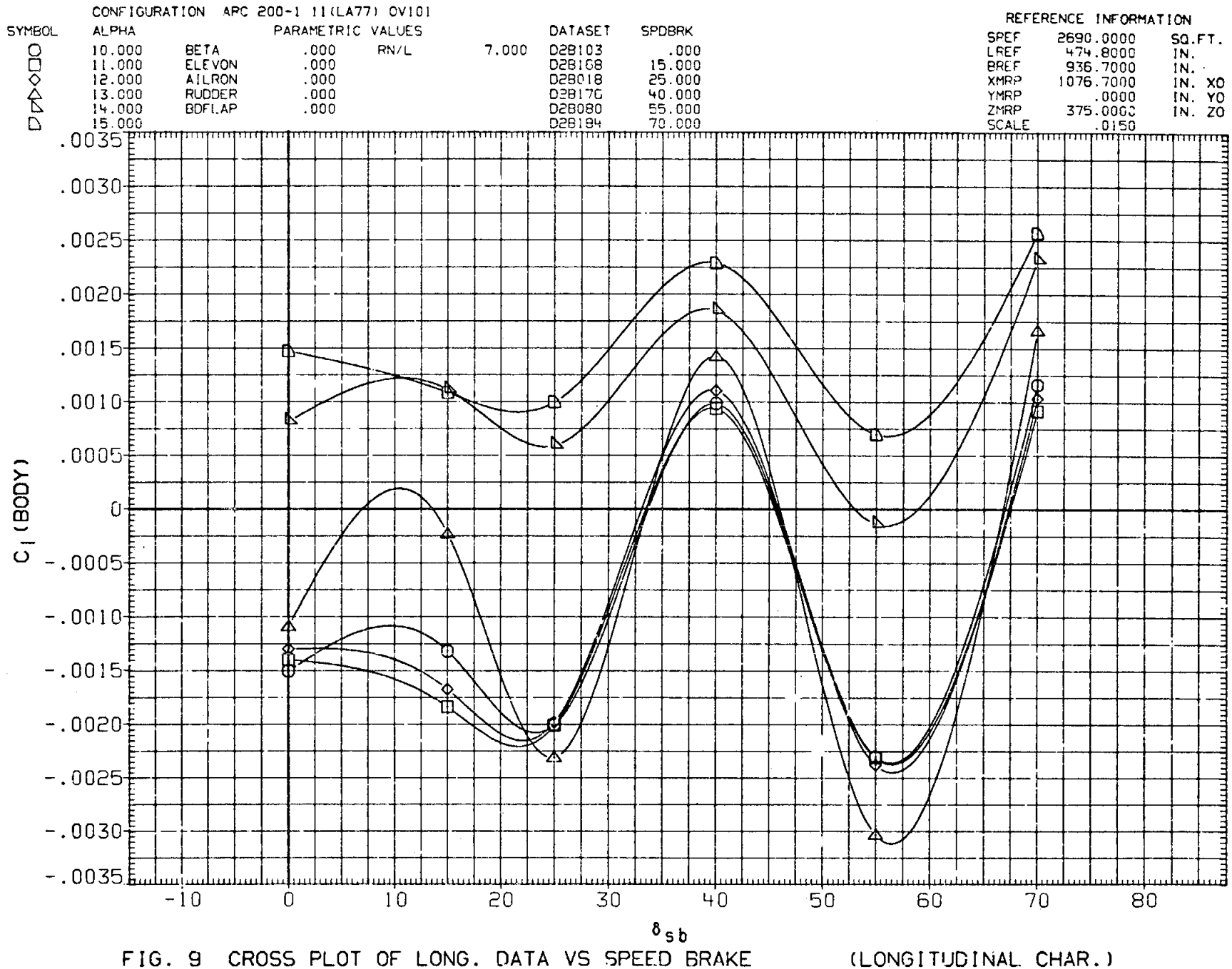

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

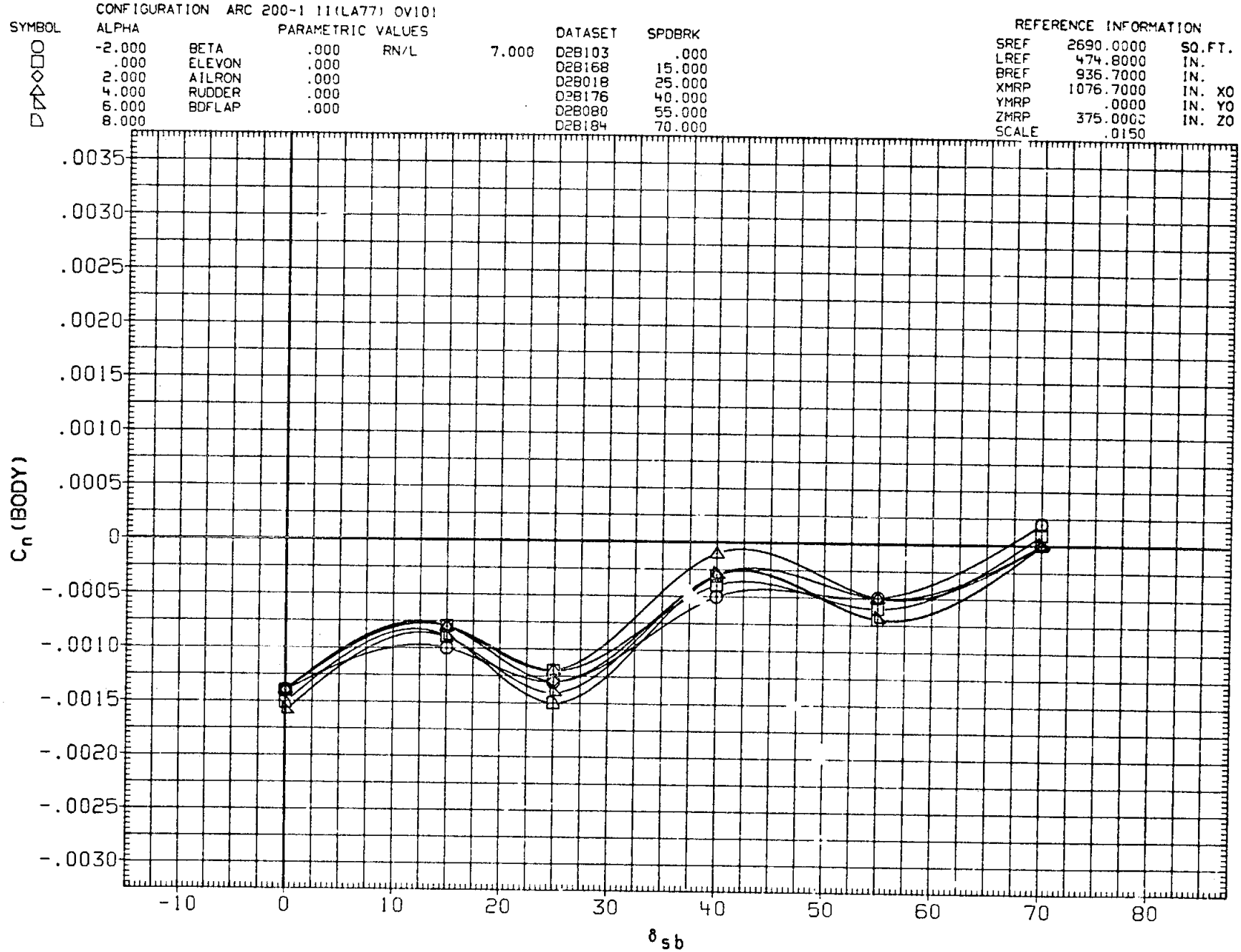

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

CONFIGURATION ARC 200-1 I1(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES					DATASET	SPDBPK
○	10.000	BETA	.000	RN/L	7.000		D28103	.000
□	11.000	ELEVON	.000				D28168	15.000
◇	12.000	AILRON	.000				D28018	25.000
△	13.000	RUDDER	.000				D28176	40.000
◺	14.000	BDFLAP	.000				D28080	55.000
◻	15.000						D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

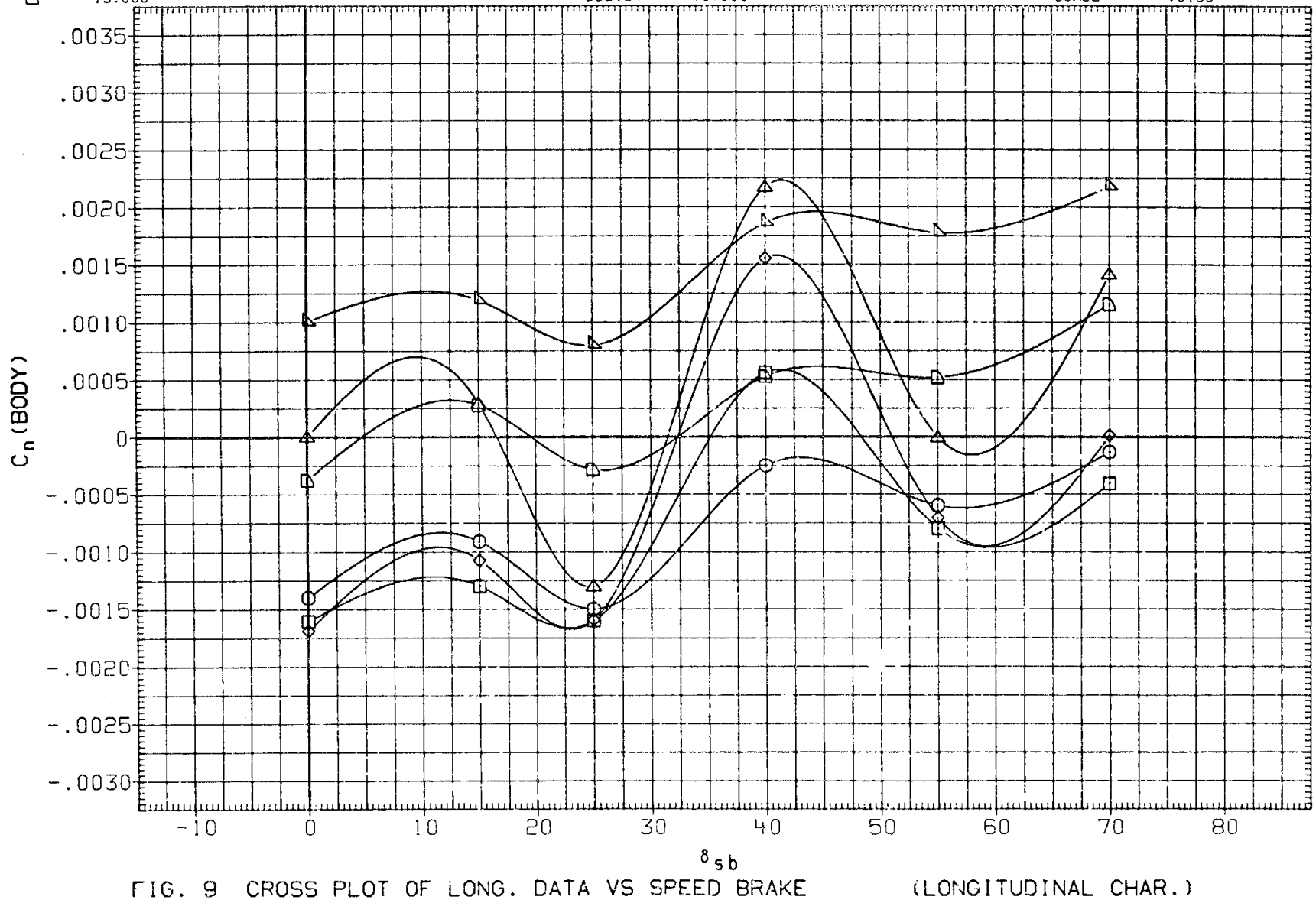

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	16.000	BETA	.000	RN/L	7.000	D2B103	.000
□	18.000	ELEVON	.000			D2B168	15.000
◇	20.000	AILRON	.000			D2B018	25.000
		RUDDER	.000			D2B176	40.000
		BDFLAP	.000			D2B080	55.000
						D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

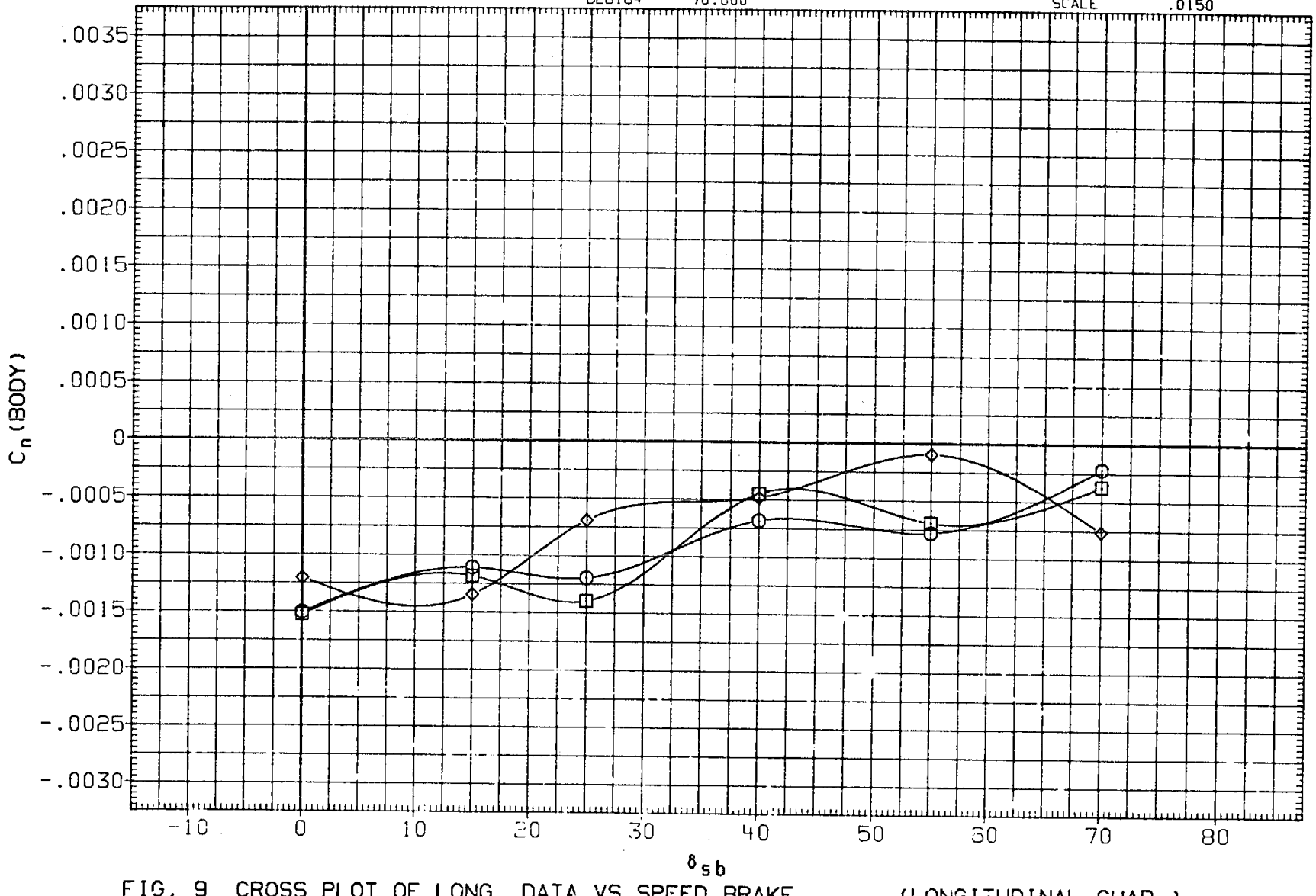

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV10!

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	7.000	D28103	.000
□	.000	ELEVON	.000			D28168	15.000
◇	2.000	AILRON	.000			D28018	25.000
△	4.000	RUDDER	.000			D28176	40.000
◁	6.000	BDFLAP	.000			D28080	55.000
▷	8.000					D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

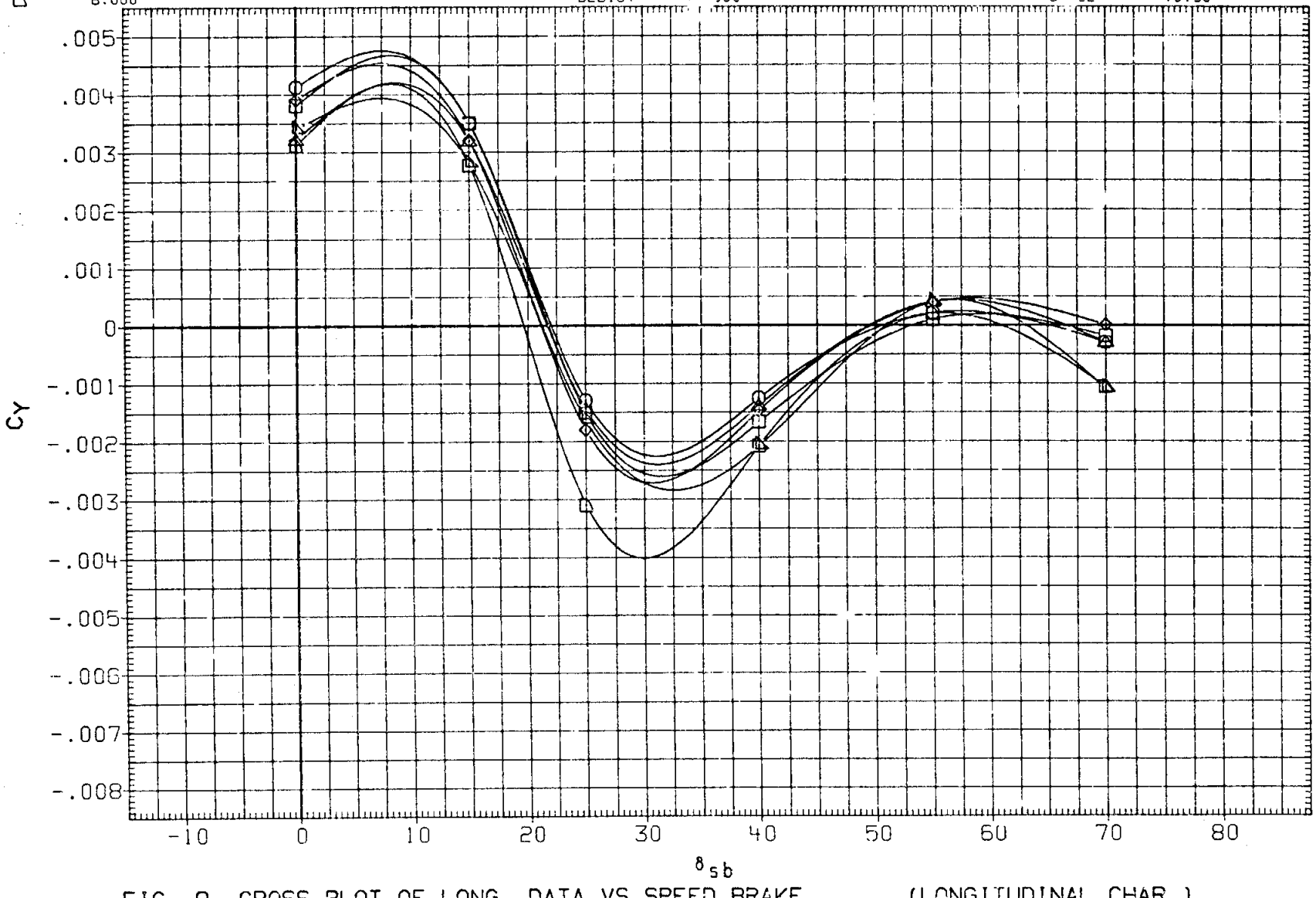

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	10.000	BETA	.000	RN/L	7.000	D2B103	.000
□	11.000	ELEVON	.000			D2B168	15.000
◇	12.000	AILRON	.000			D2B018	25.000
△	13.000	RUDDER	.000			D3B176	40.000
◁	14.000	BDFLAP	.000			D2B080	55.000
▷	15.000					D2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

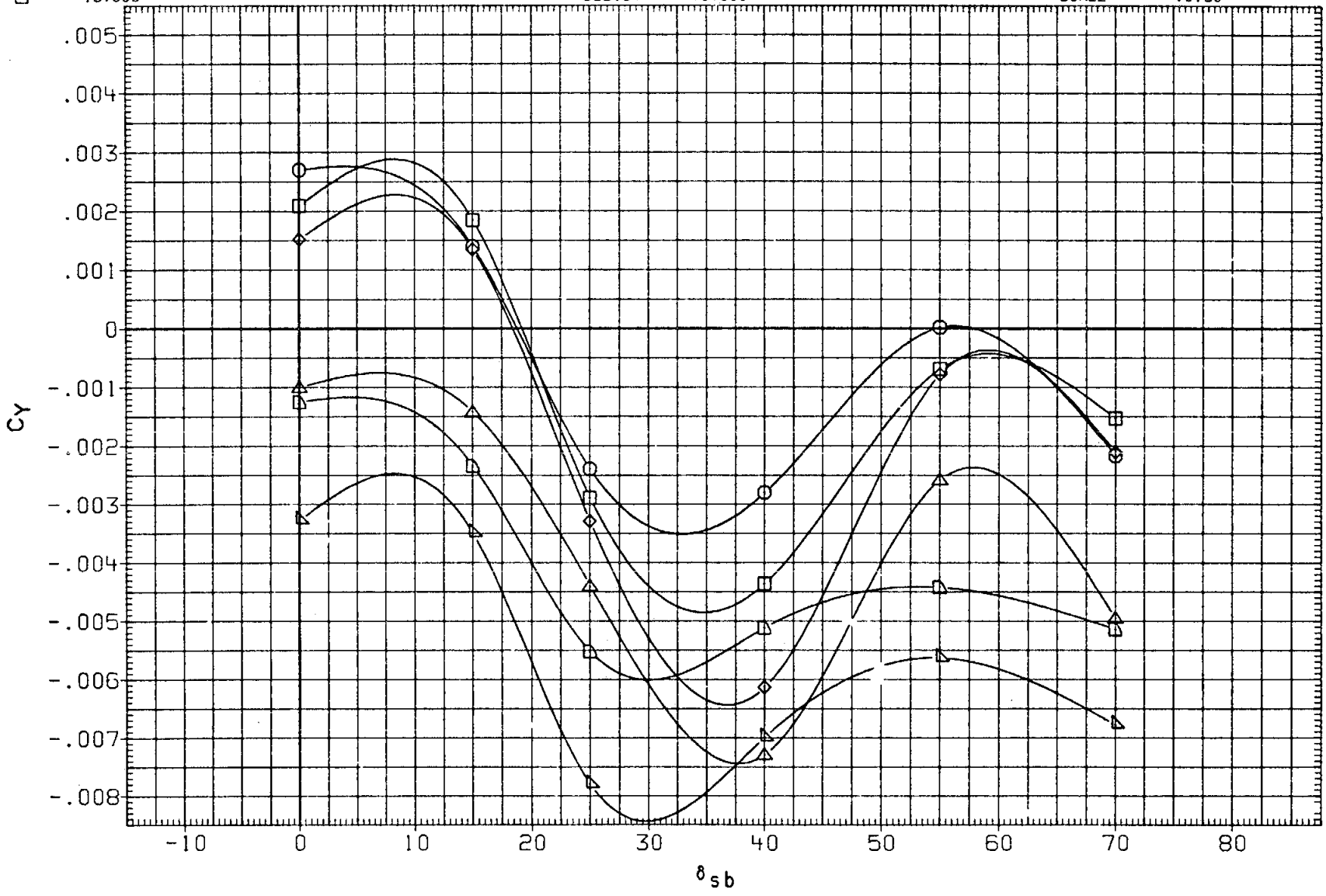

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	16.000	BETA	.000	RN/L	7.000	D28103	.000
□	18.000	ELEVON	.000			D28158	15.000
◇	20.000	AILRON	.000			D28018	25.000
		RUDDER	.000			D28176	40.000
		BDFLAP	.000			D28080	55.000
						D28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

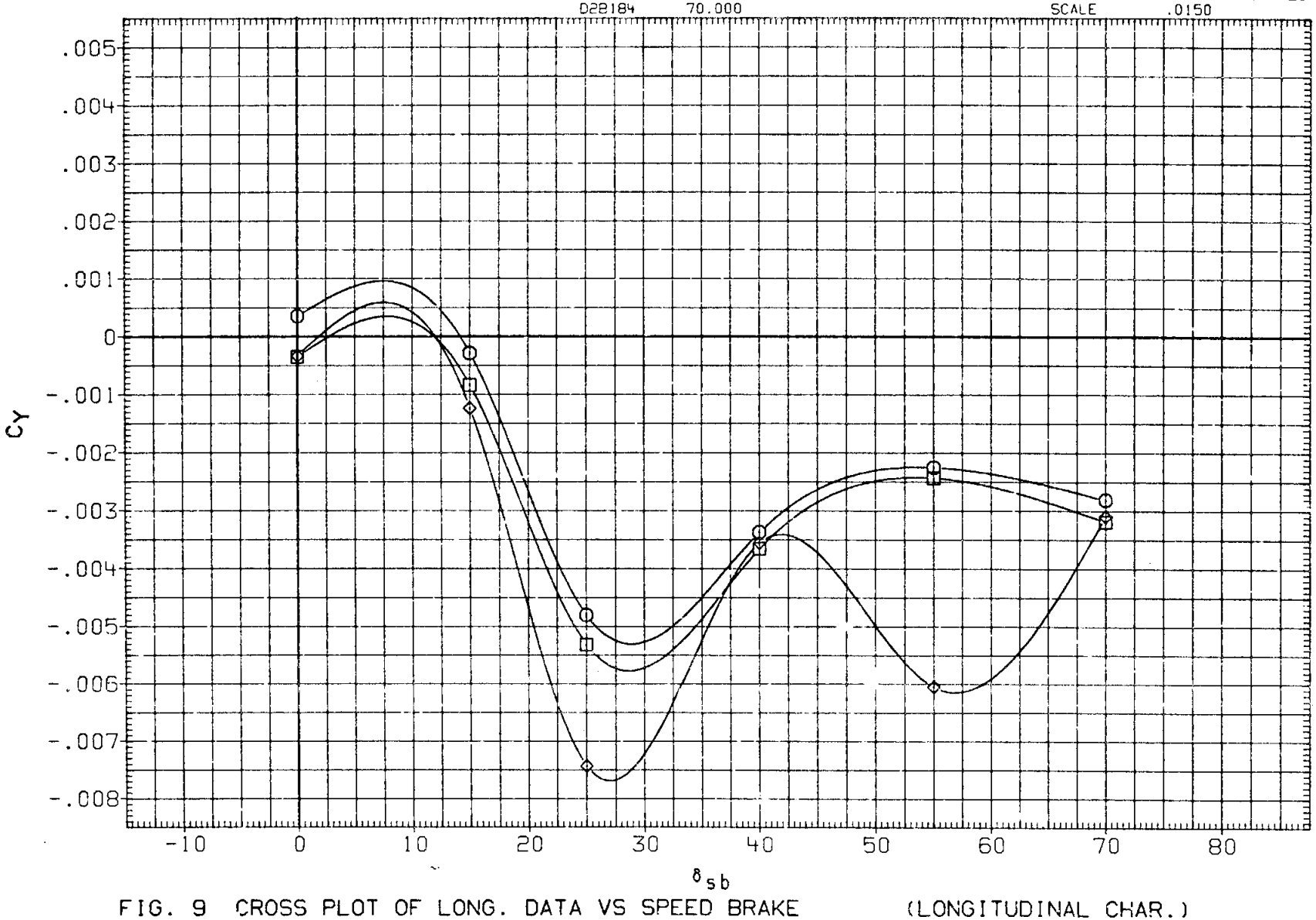

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .60

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◸	5.000					E2B137	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

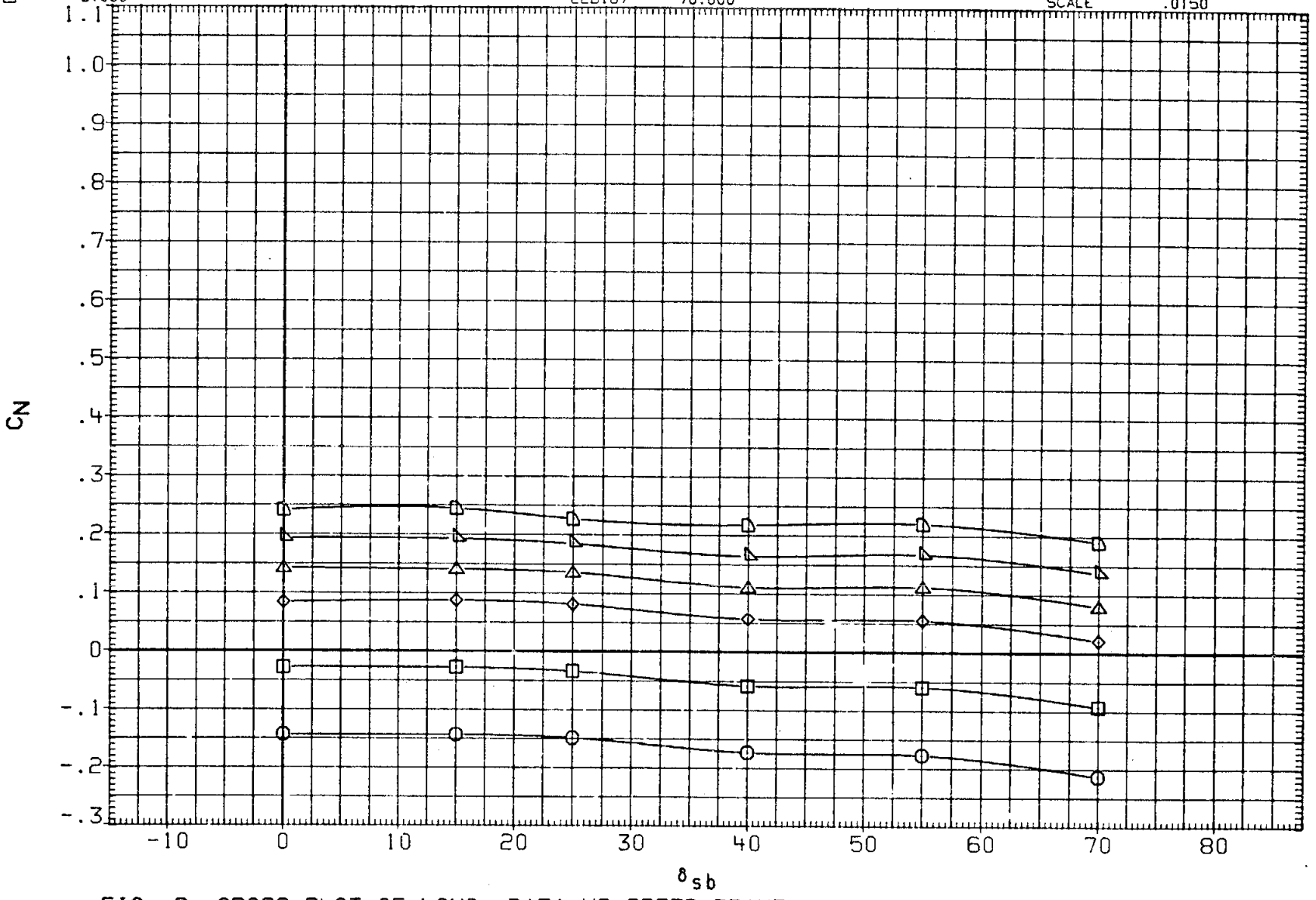

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◺	10.000	BDFLAP	.000			E28084	55.000
◻	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

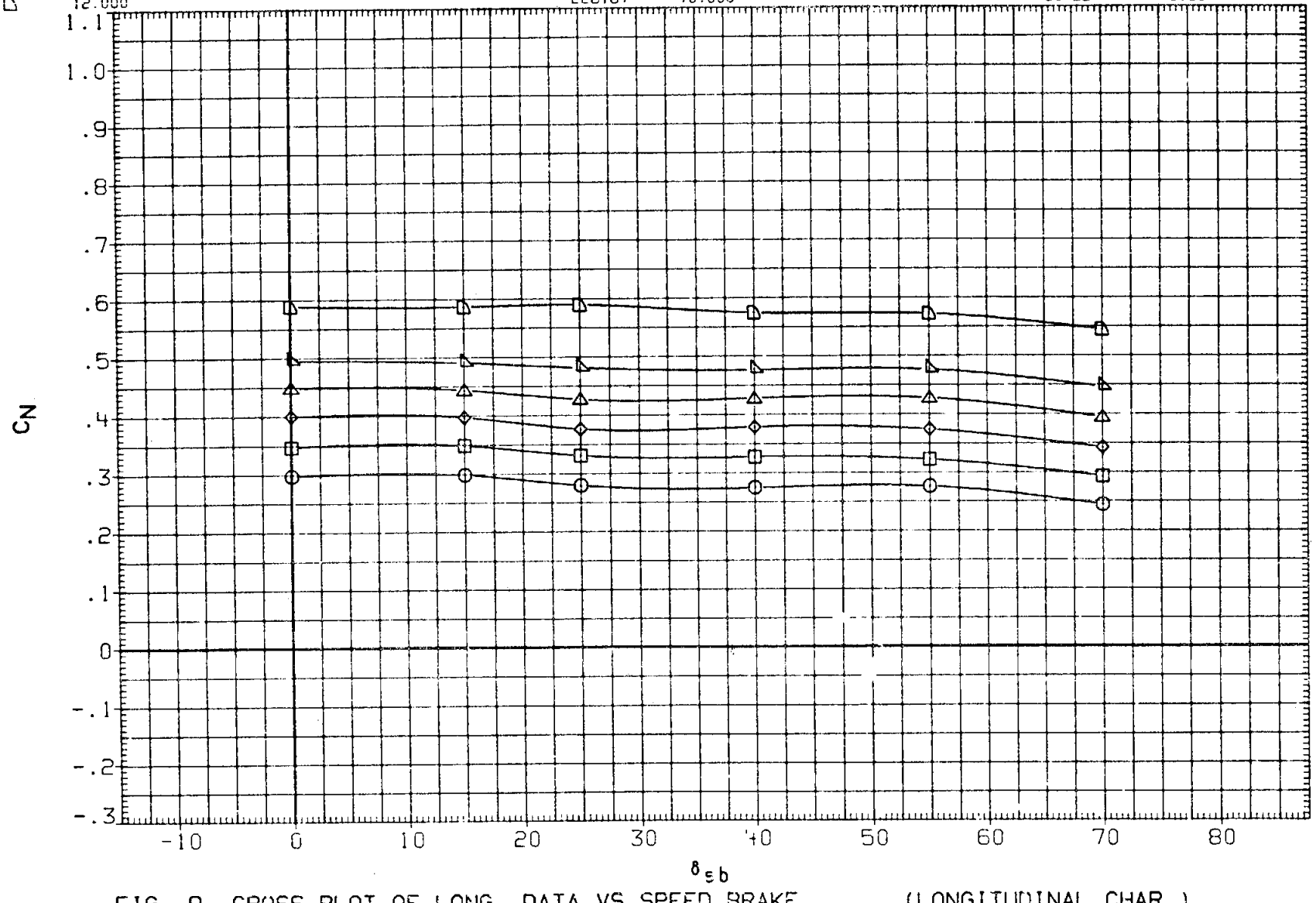

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

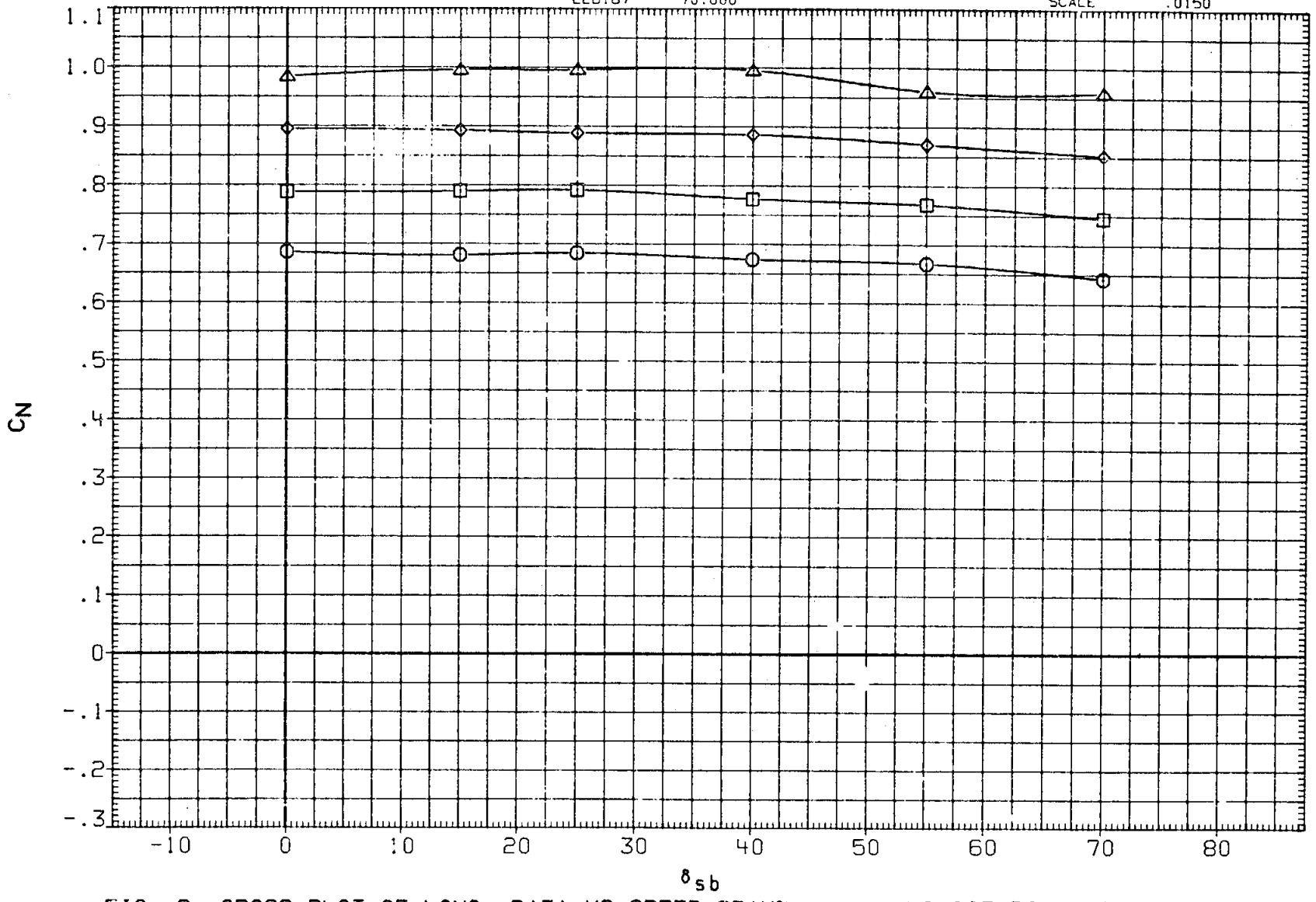

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◪	4.000	BDFLAP	.000			E2B084	55.000
D	5.000					E2B167	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

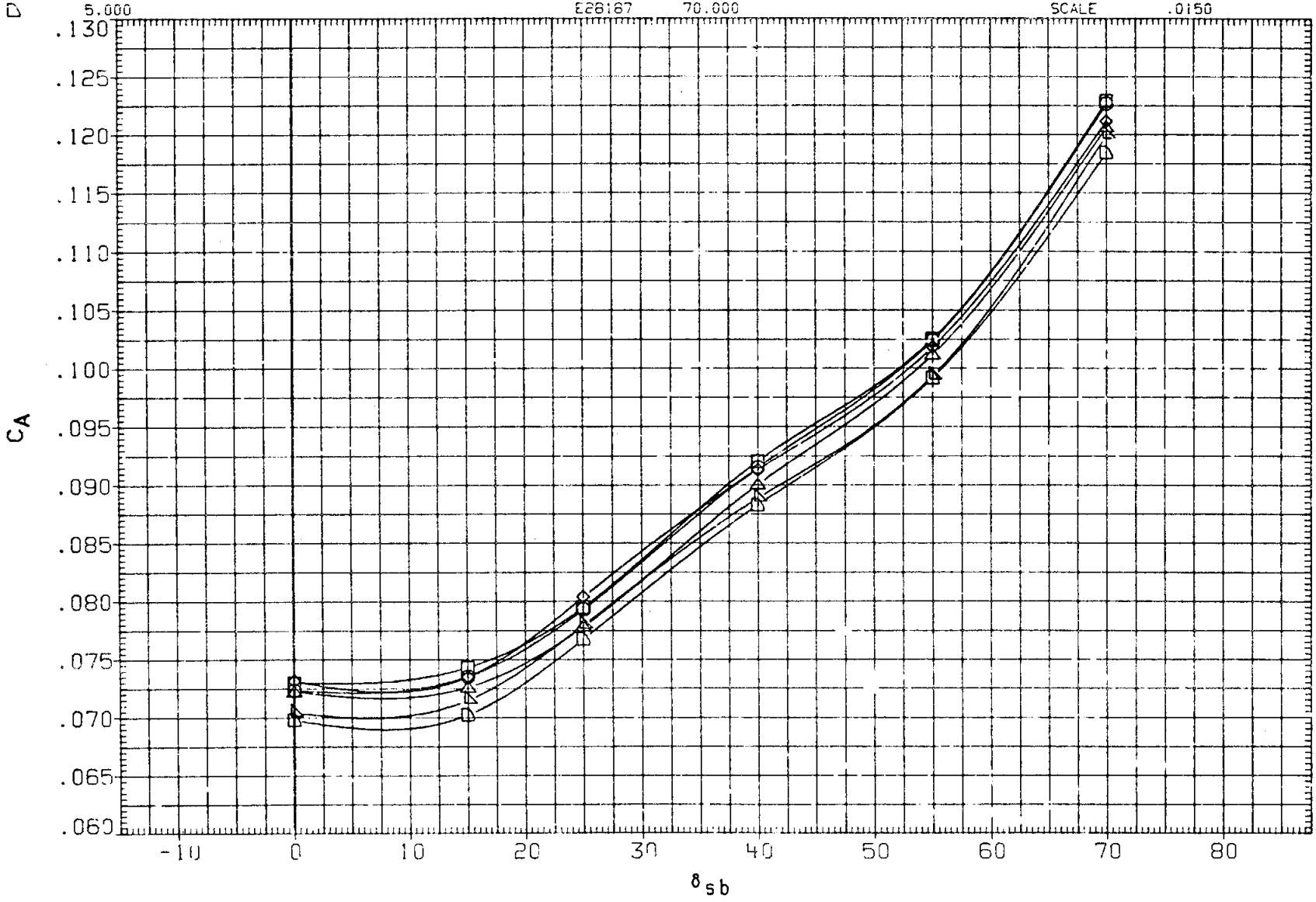

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

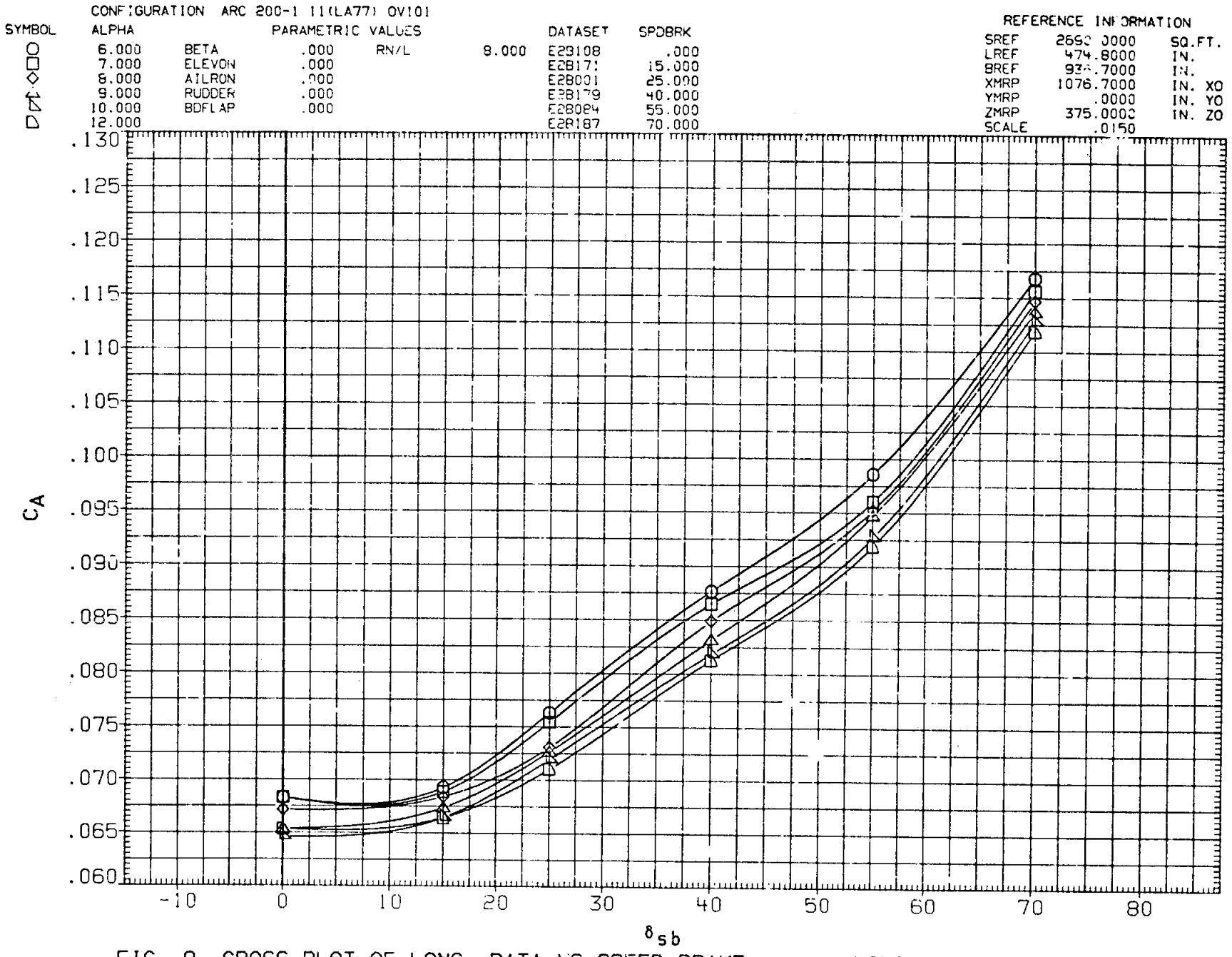

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

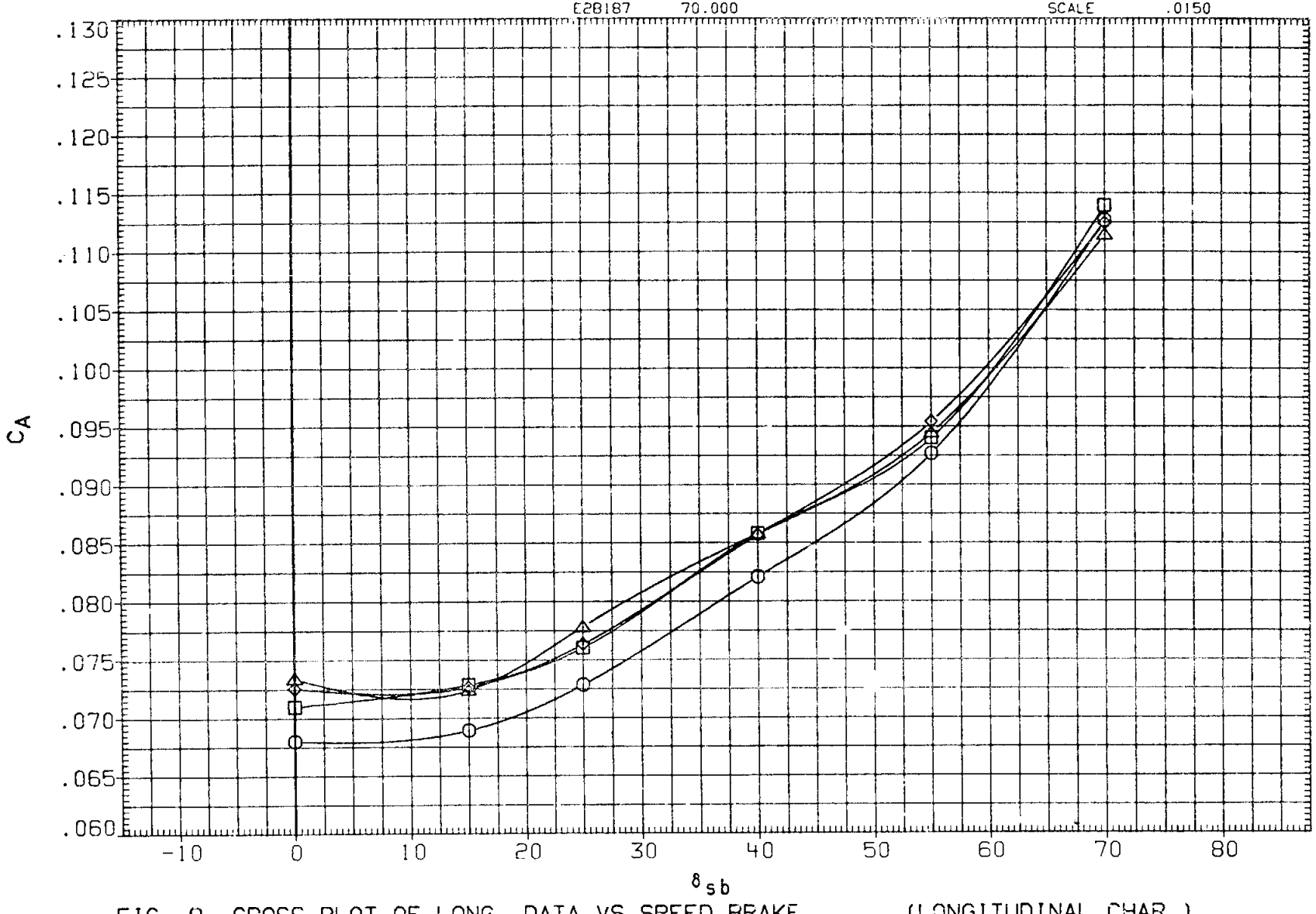

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◺	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

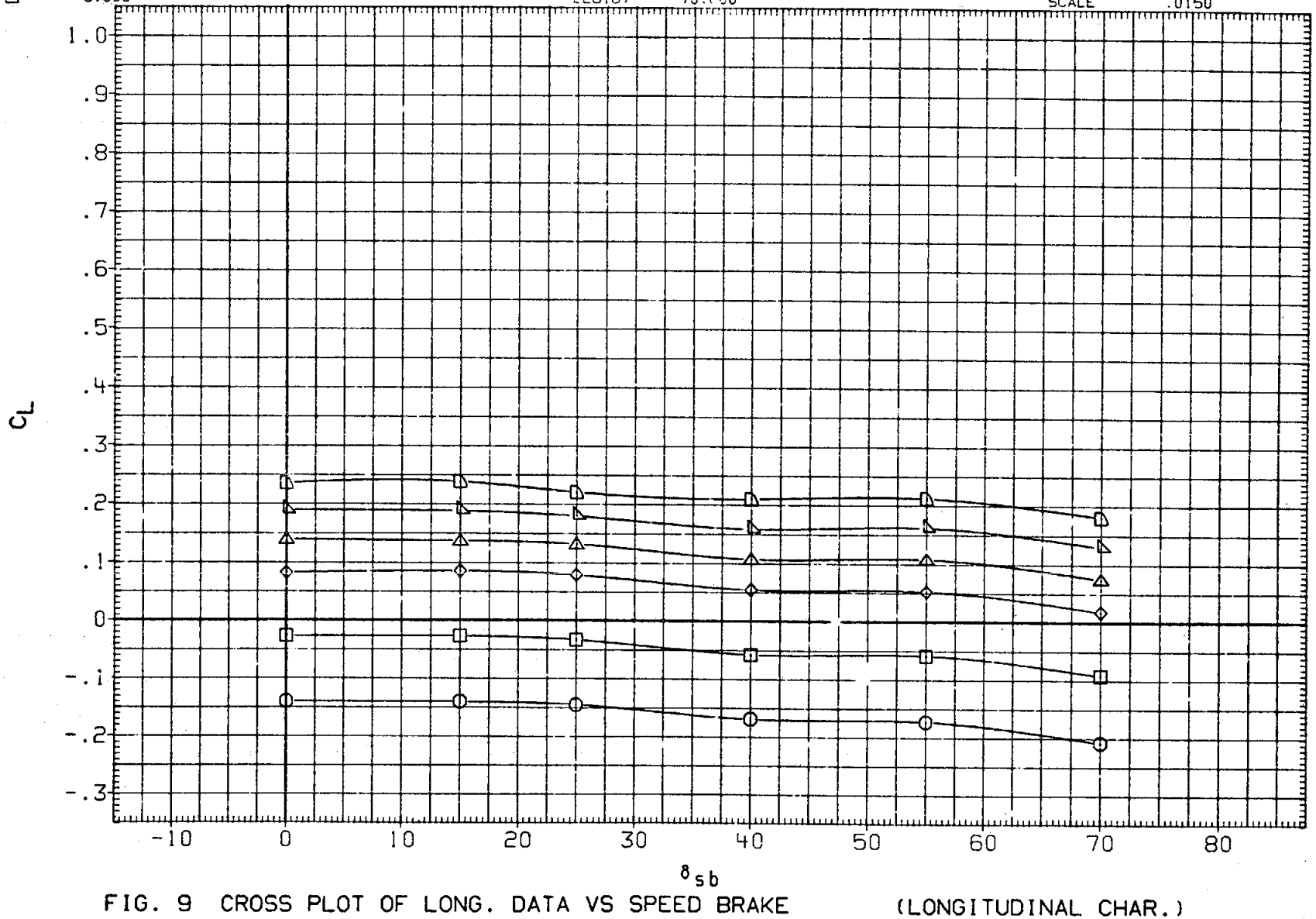

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◺	10.000	BDFLAP	.000			E2B084	55.000
◸	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

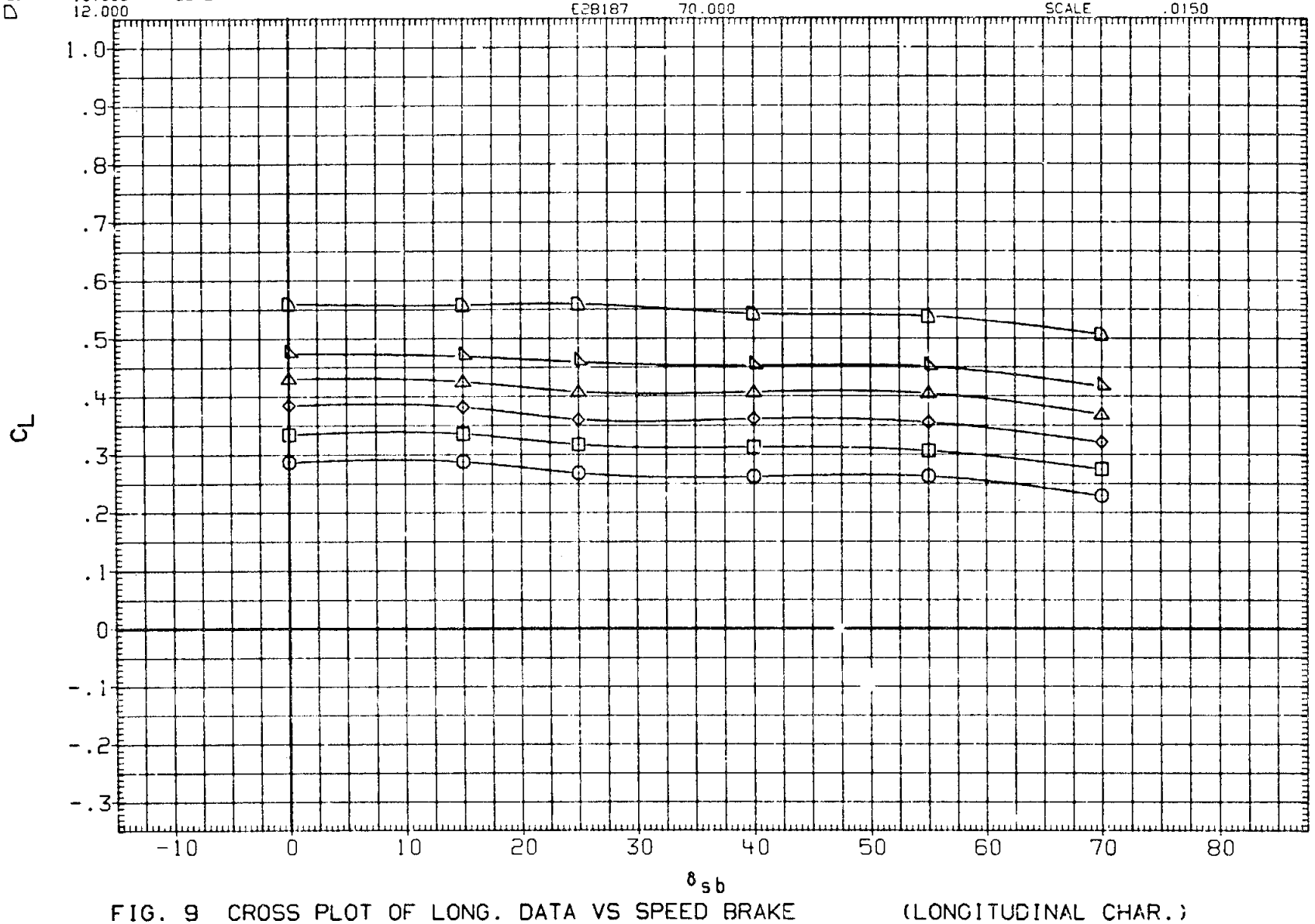

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

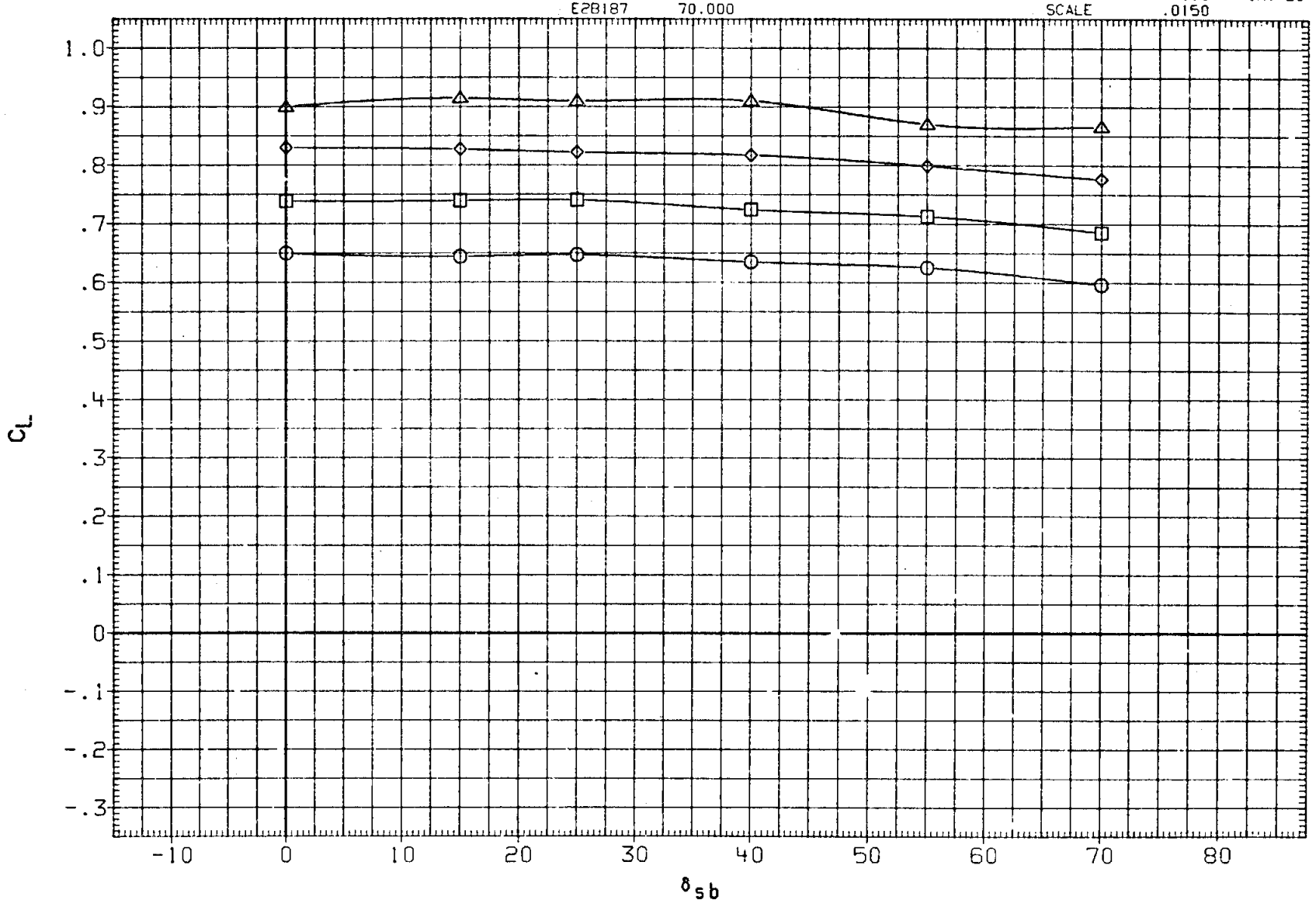

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E28179	40.000
◁	4.000	BDFLAP	.000			E28084	55.000
▷	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

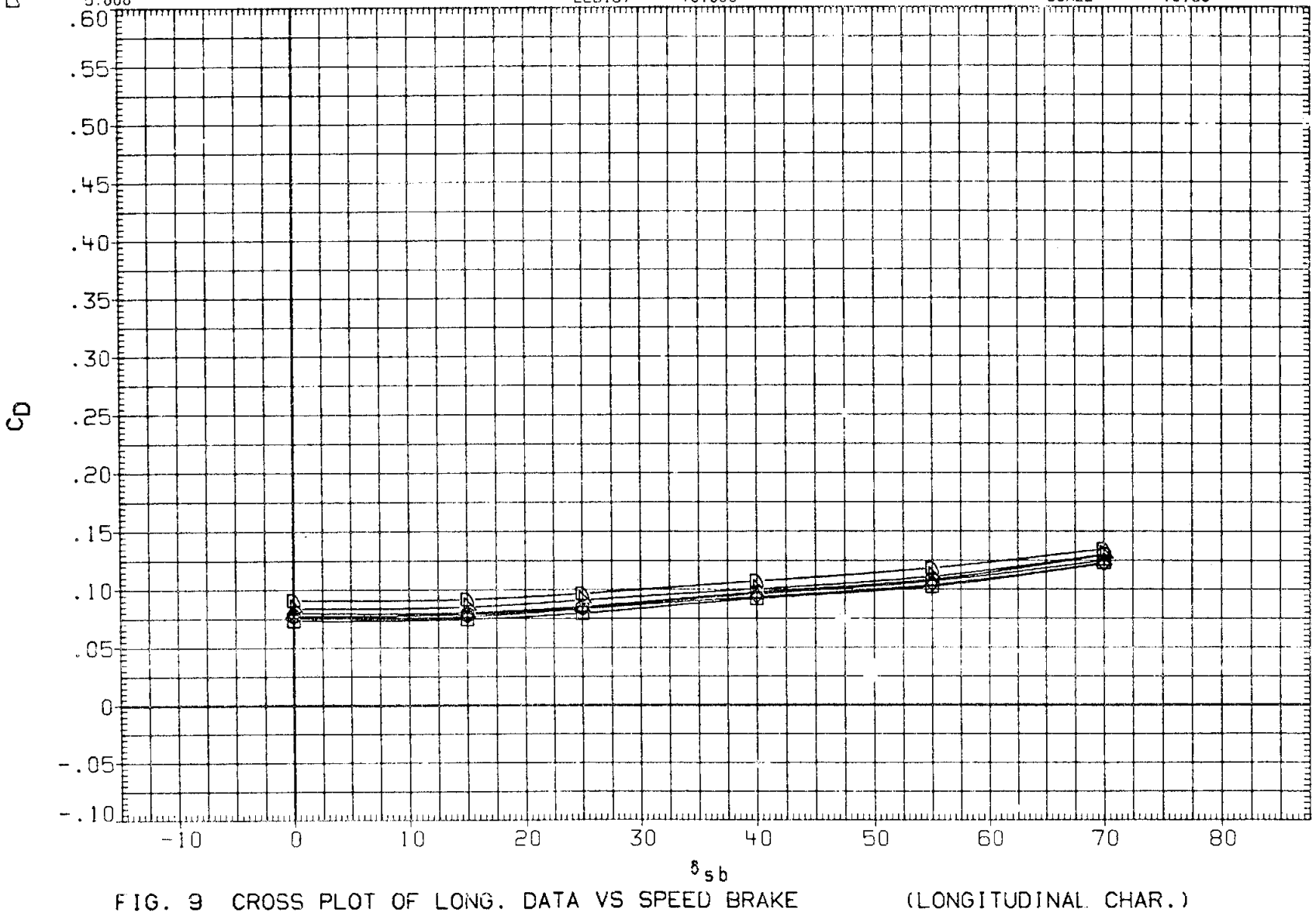

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◁	10.000	BDFLAP	.000			E2B084	55.000
▷	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

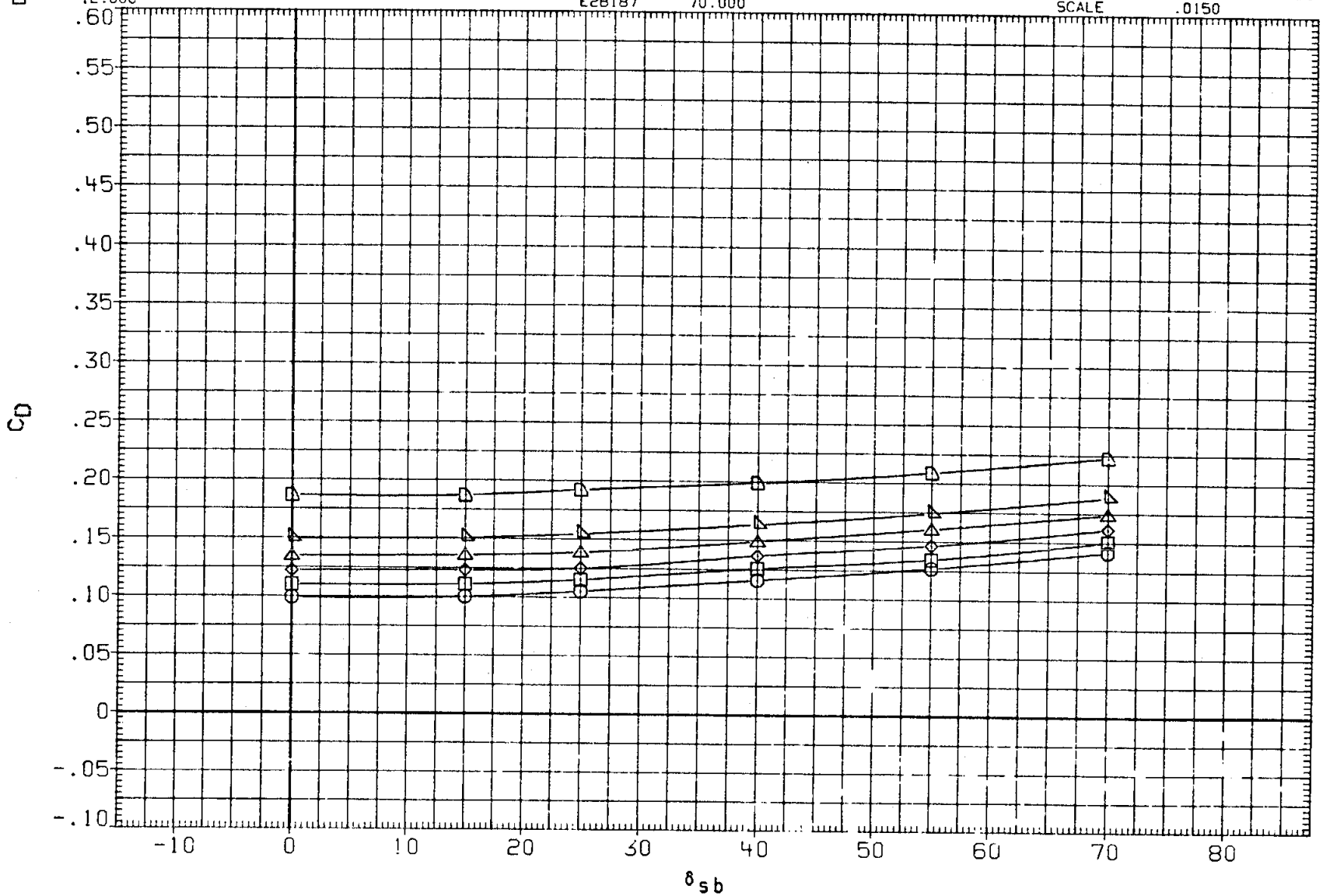

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 1:(LA77) OV!01

SYMBOL	ALPHA	PARAMETRIC VALUES					DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000		E2B108	.000
□	16.000	ELEVON	.000				E2B171	15.000
◇	18.000	AILRON	.000				E2B001	25.000
△	20.000	RUDDER	.000				E2B179	40.000
		BDFLAP	.000				E2B084	55.000
							E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

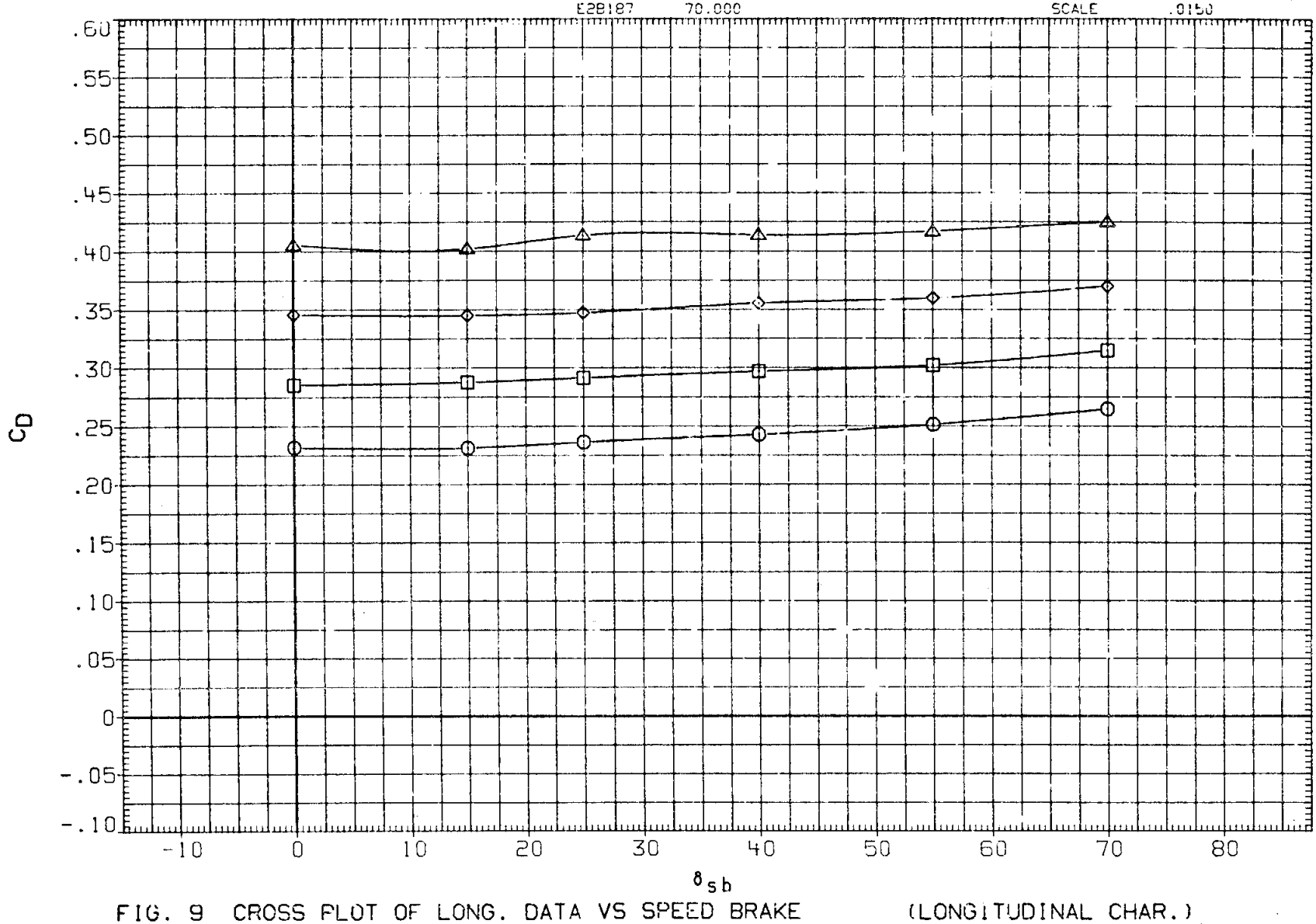

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E28179	40.000
◁	4.000	BDFLAP	.000			E28084	55.000
D	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

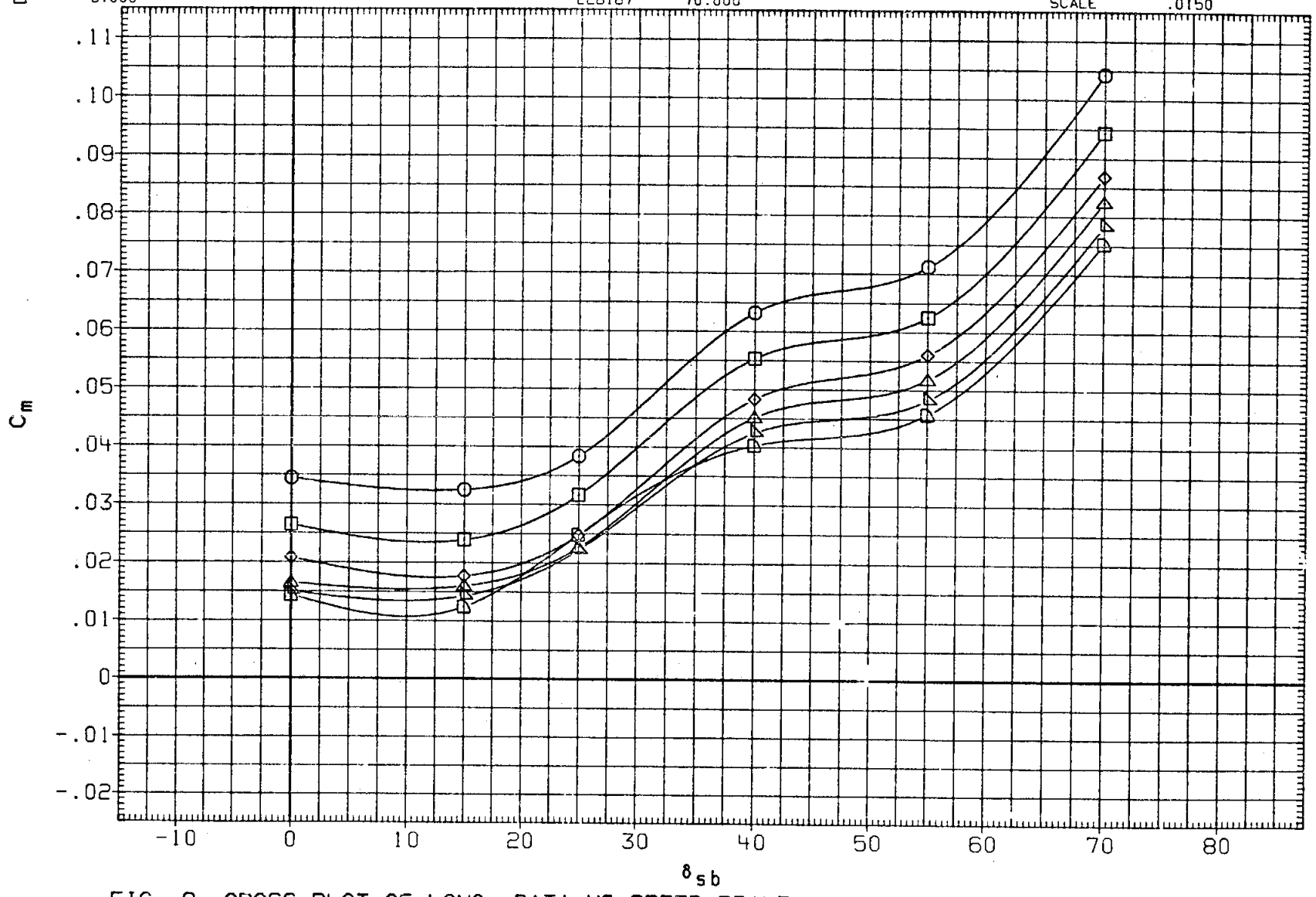

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◺	10.000	BDFLAP	.000			E2B084	55.000
D	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

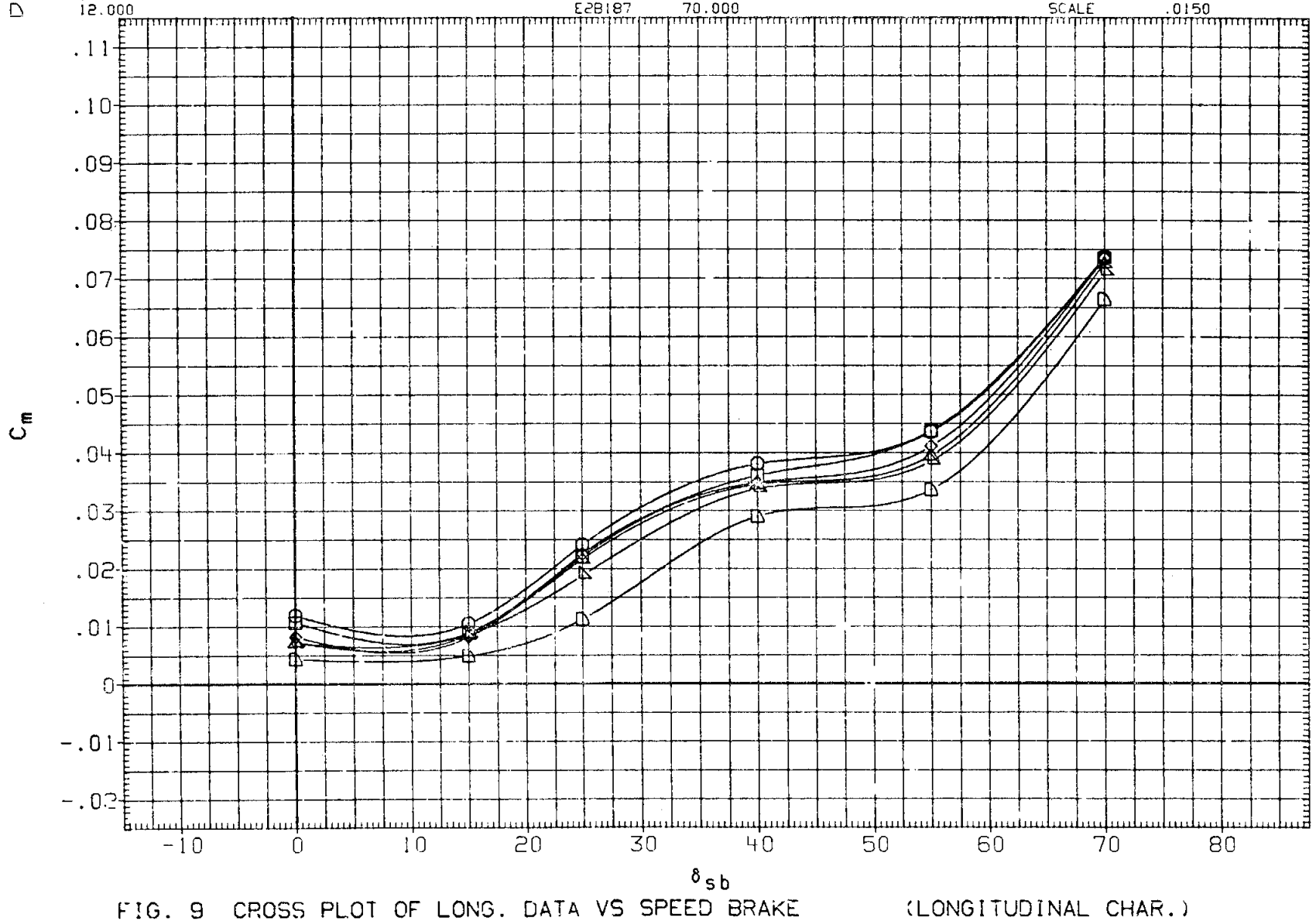

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

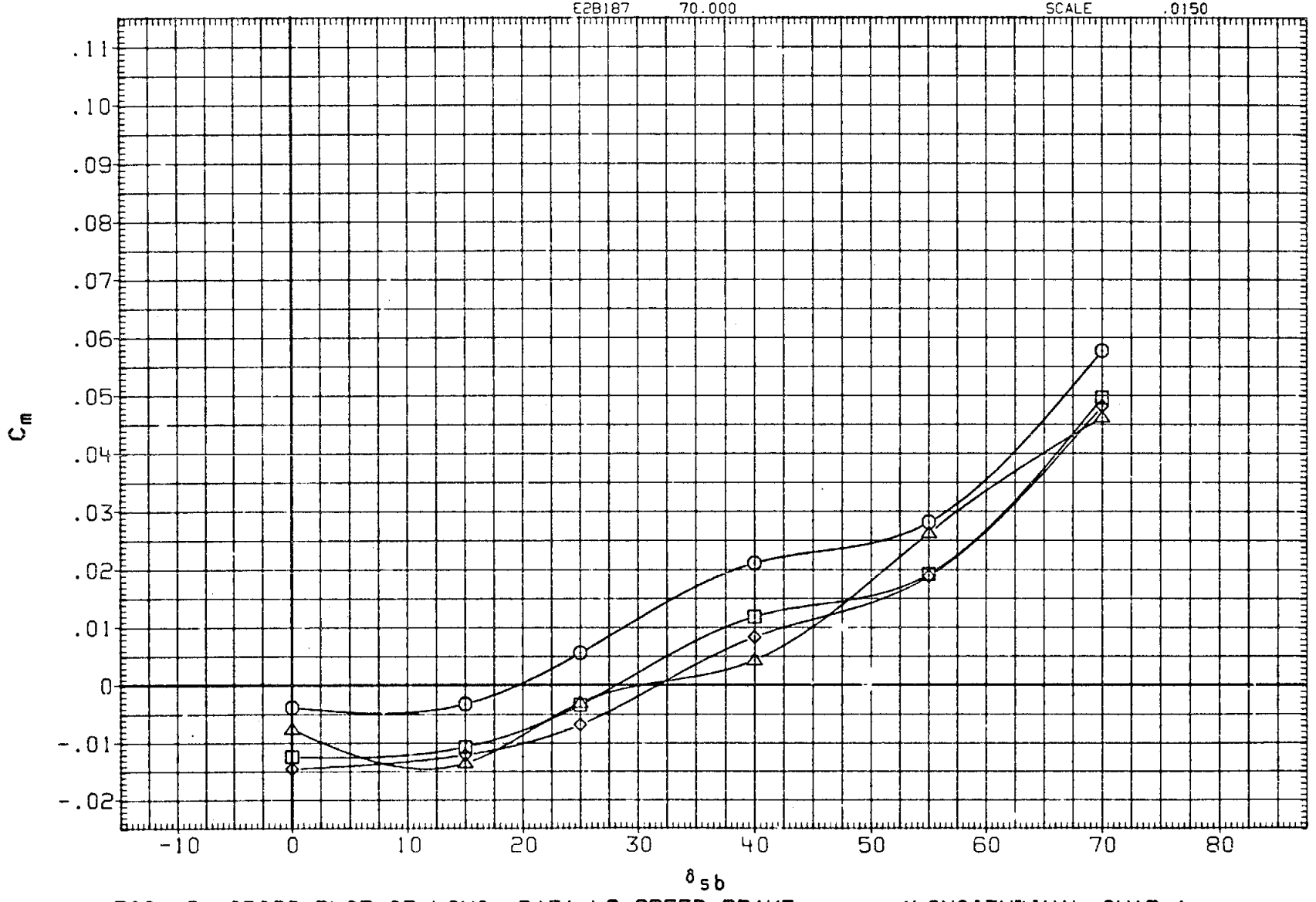

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E28179	40.000
◁	4.000	BDFLAP	.000			E28084	55.000
▷	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

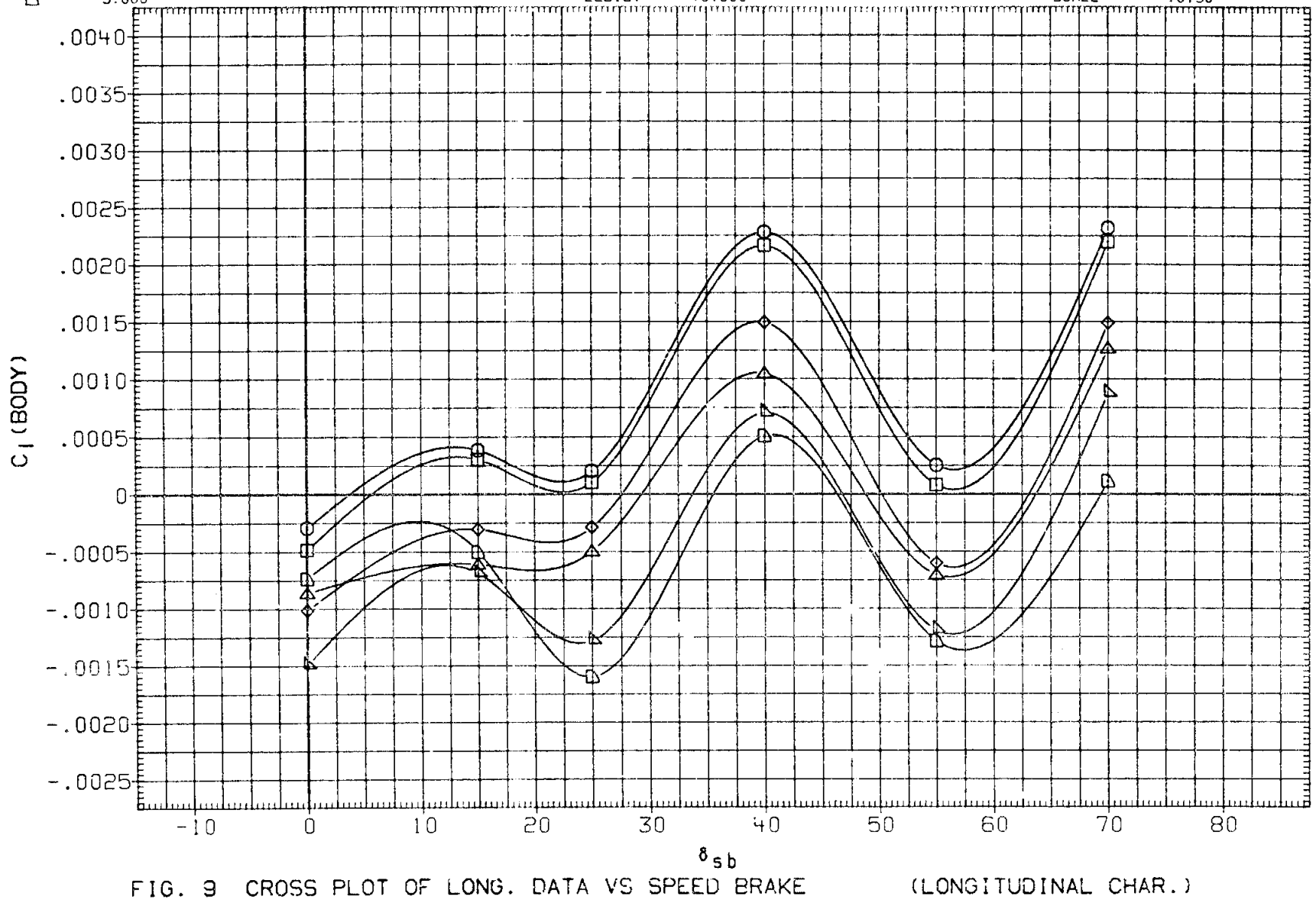

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 1!(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◁	10.000	BDFLAP	.000			E28084	55.000
D	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

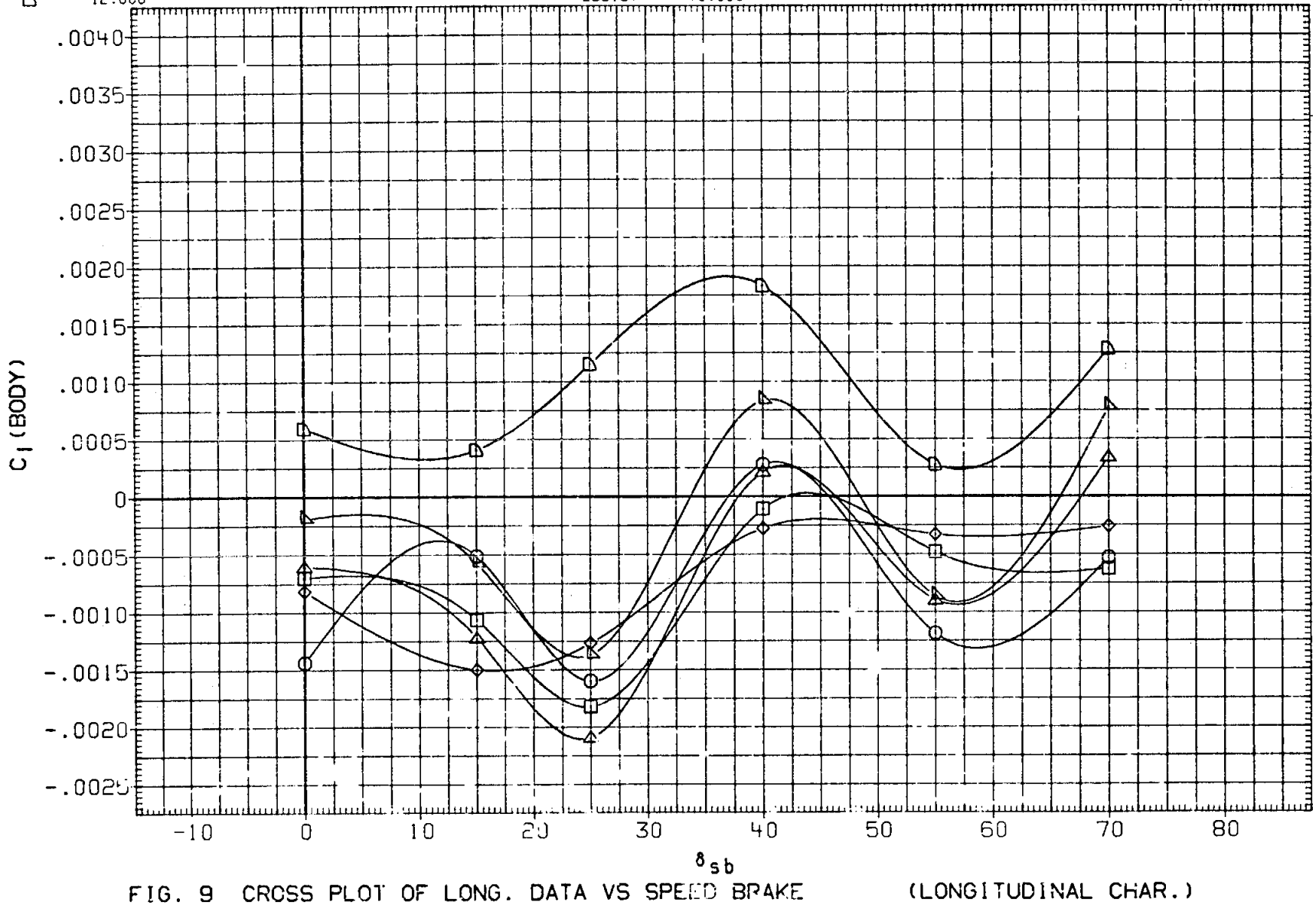

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) 0V101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2090.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

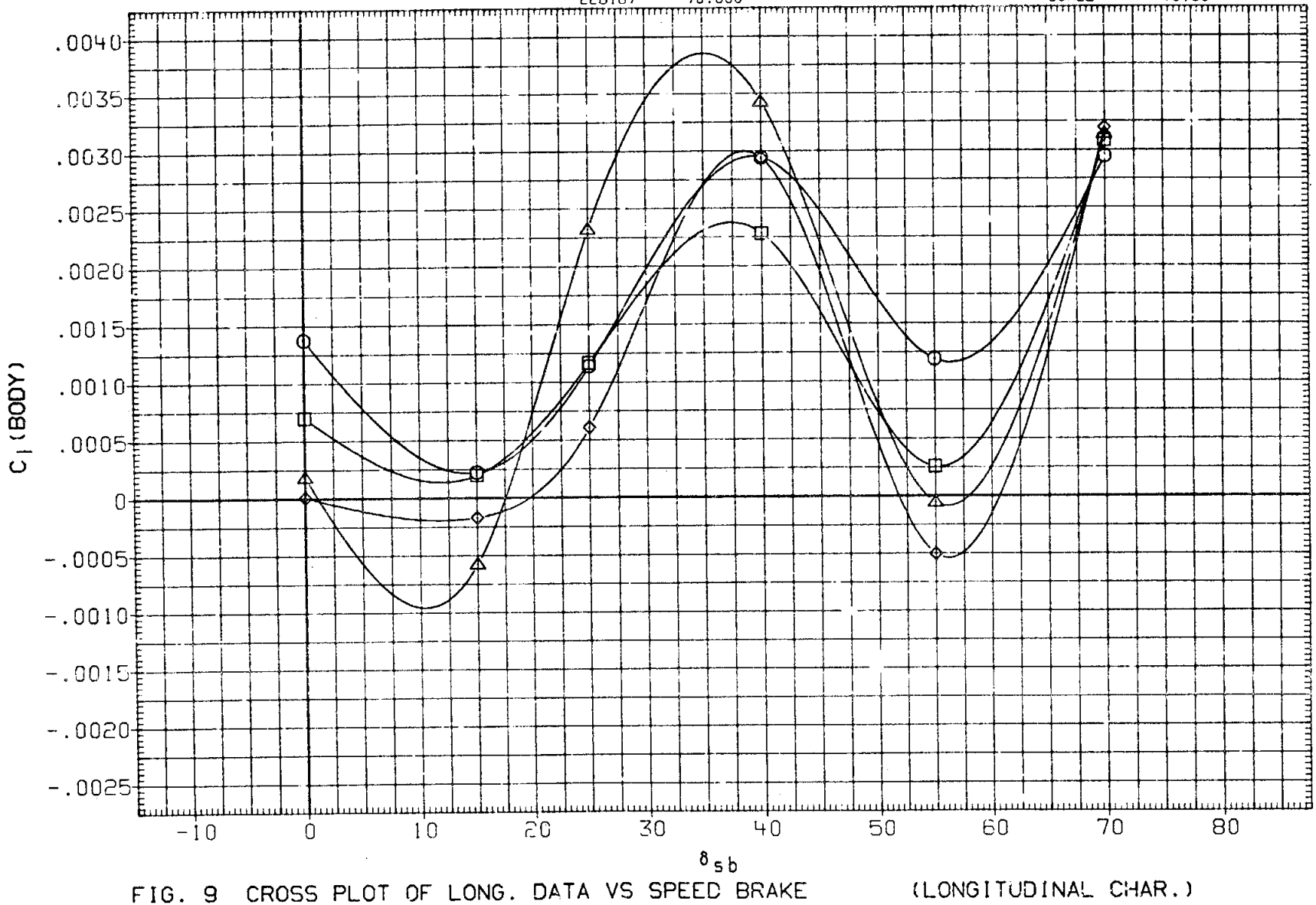

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E28179	40.000
◺	4.000	BDFLAP	.000			E28084	55.000
◸	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

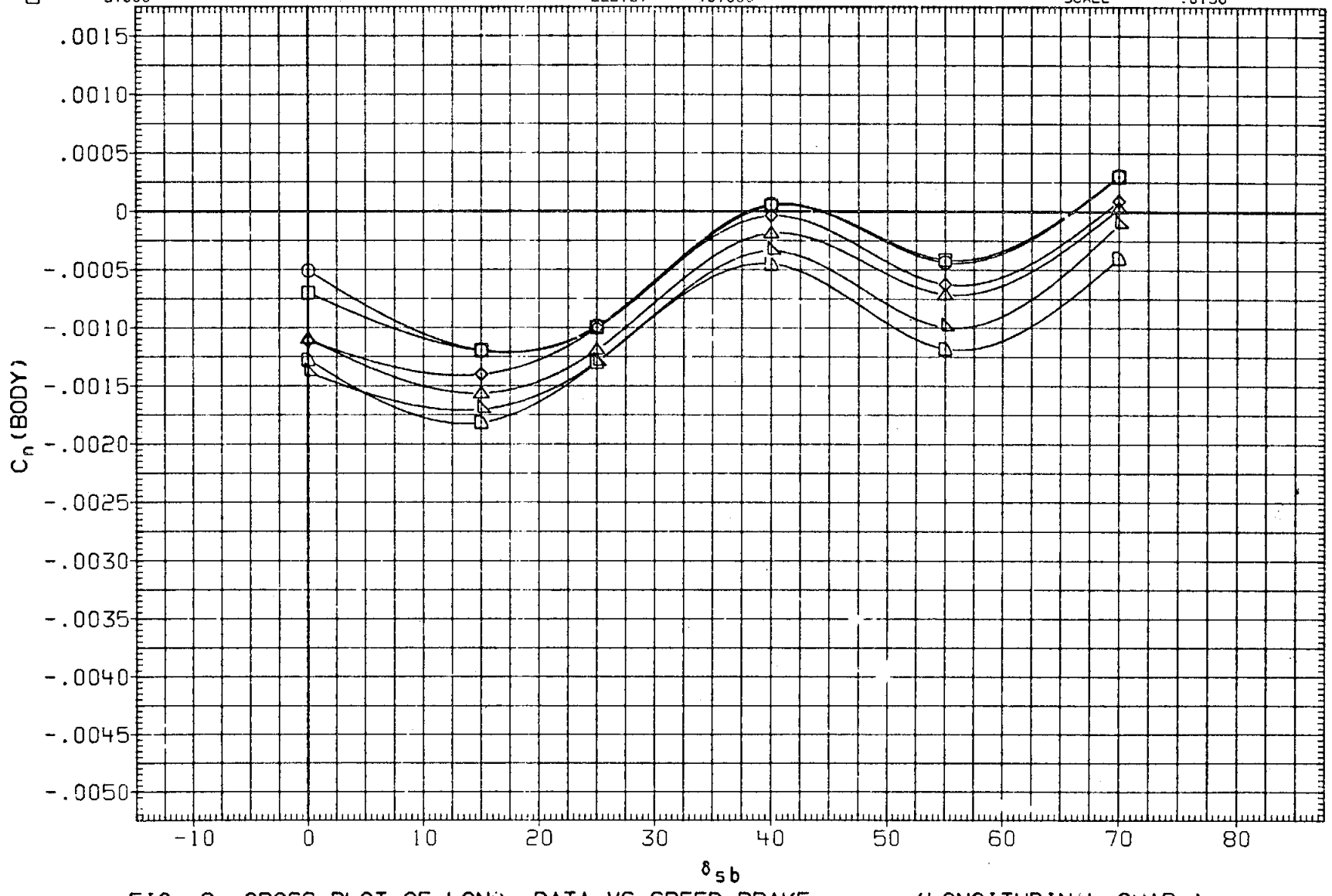

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◁	10.000	BDFLAP	.000			E28084	55.000
D	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

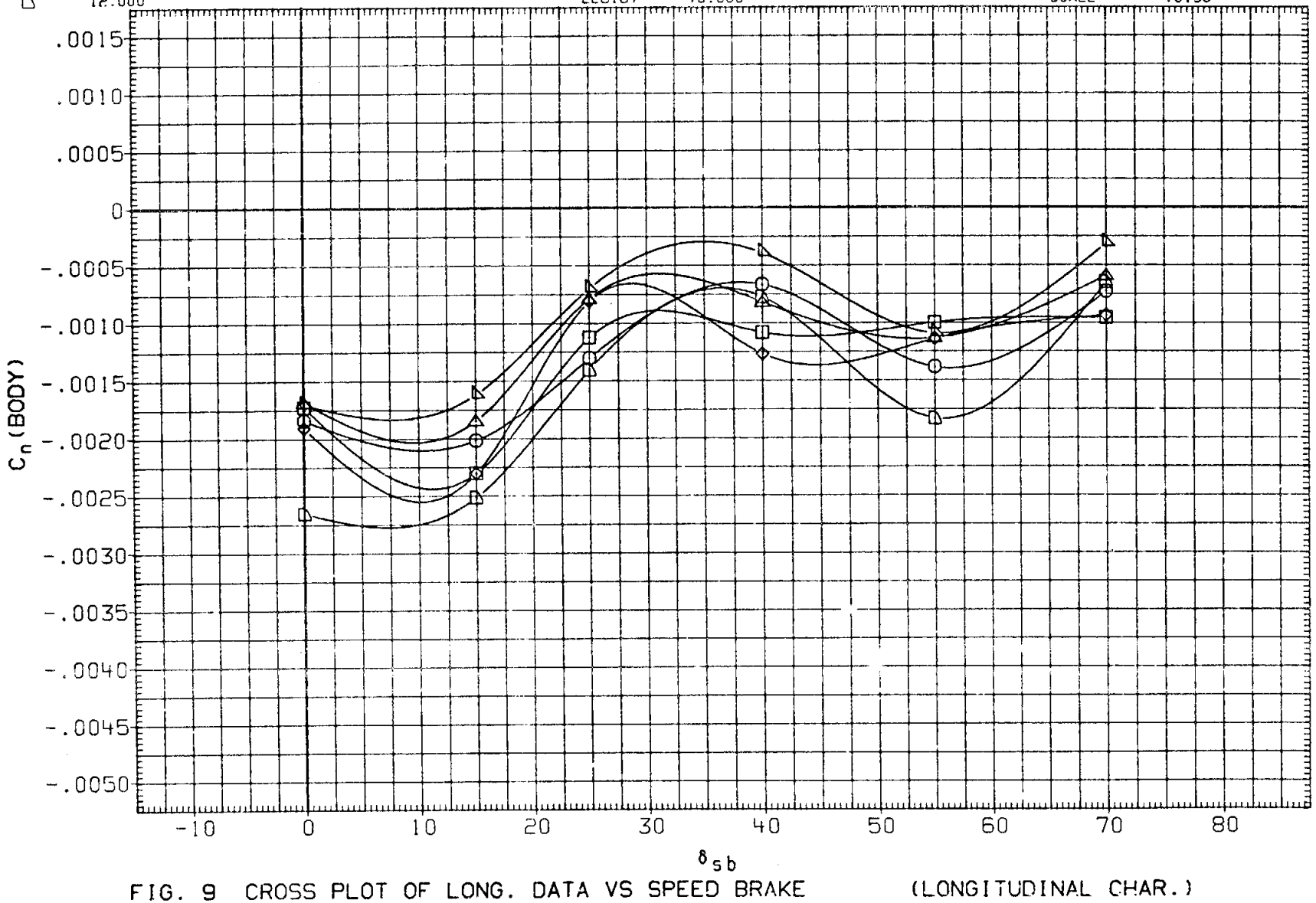

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

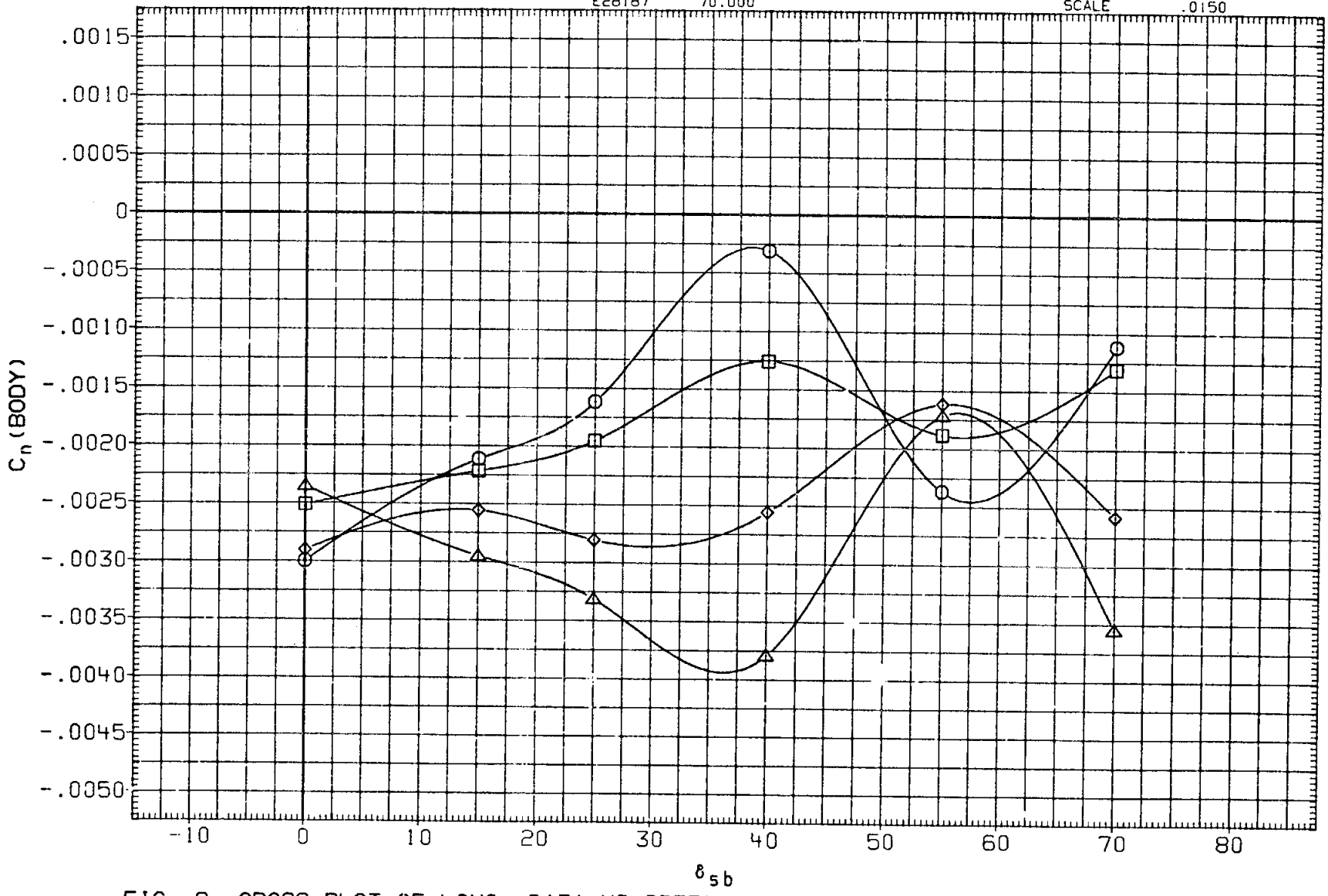

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

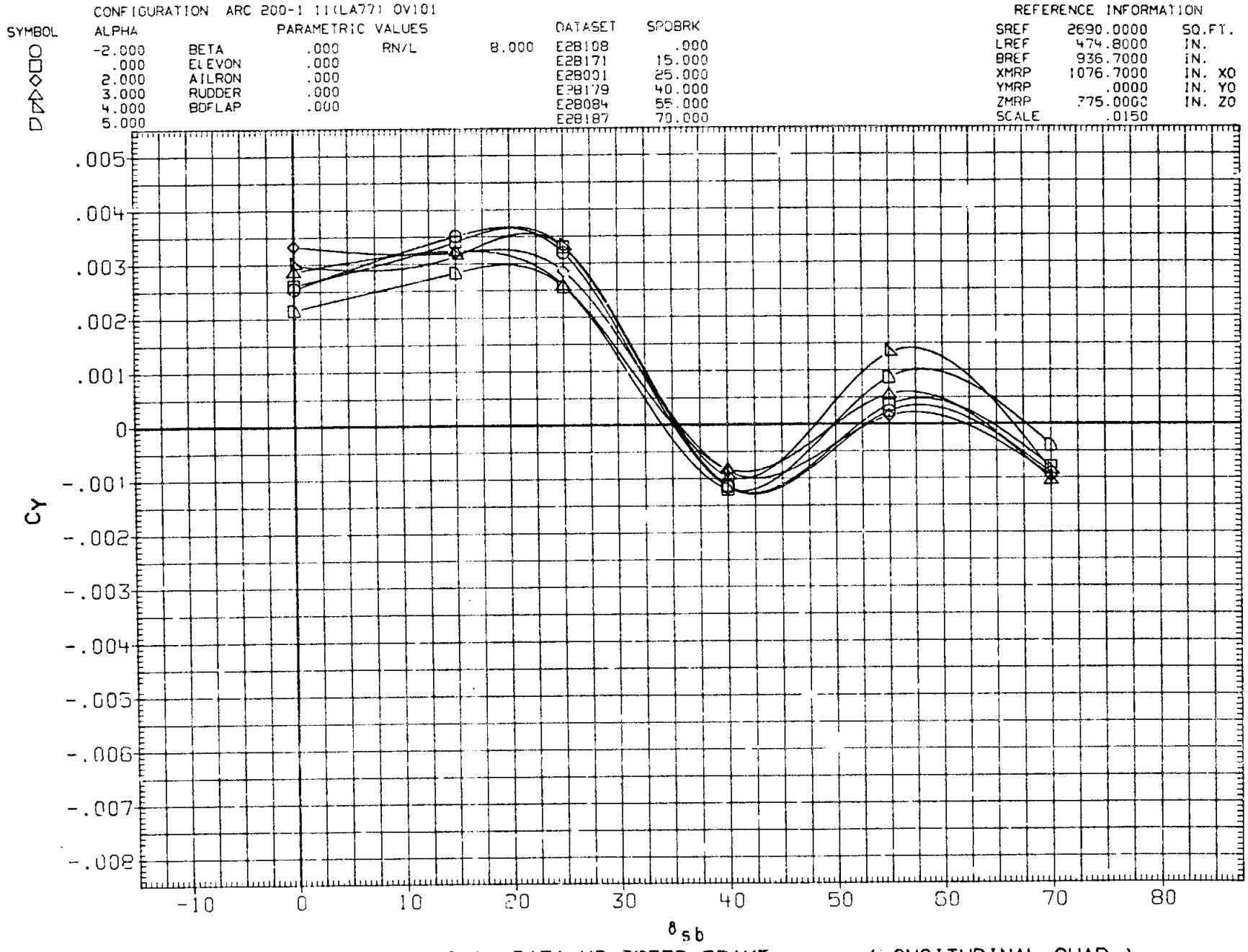

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

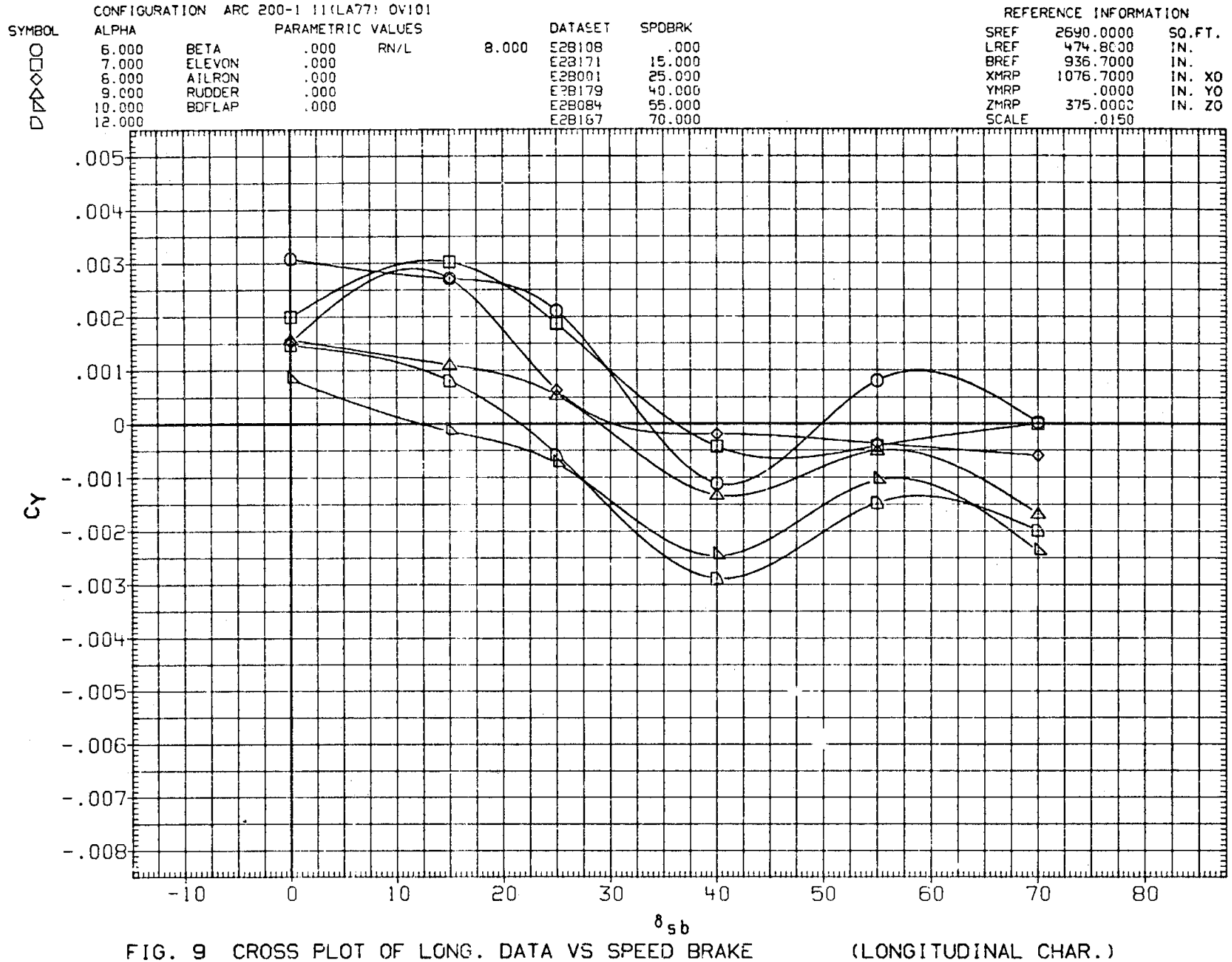

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

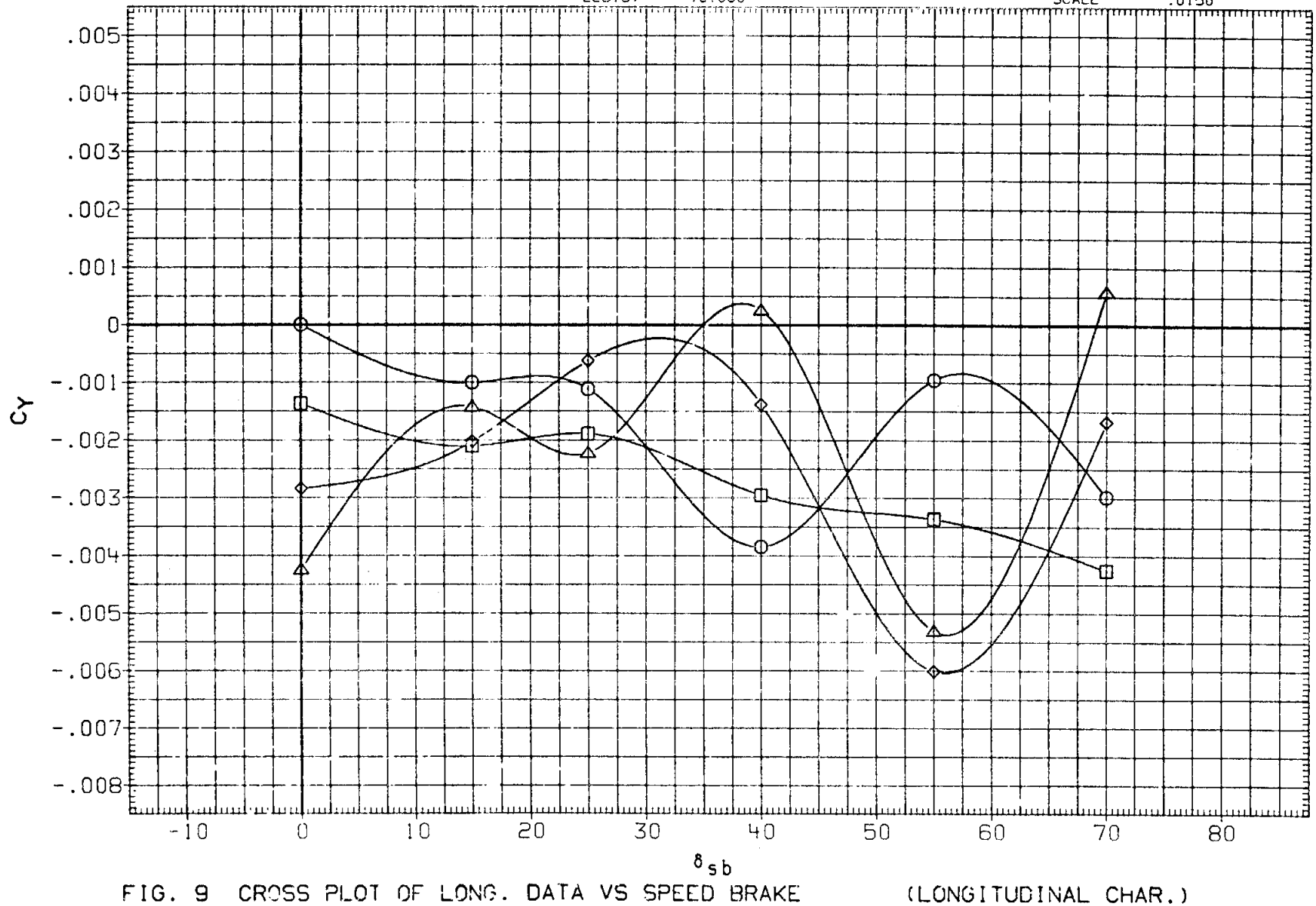

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = .90

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◺	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

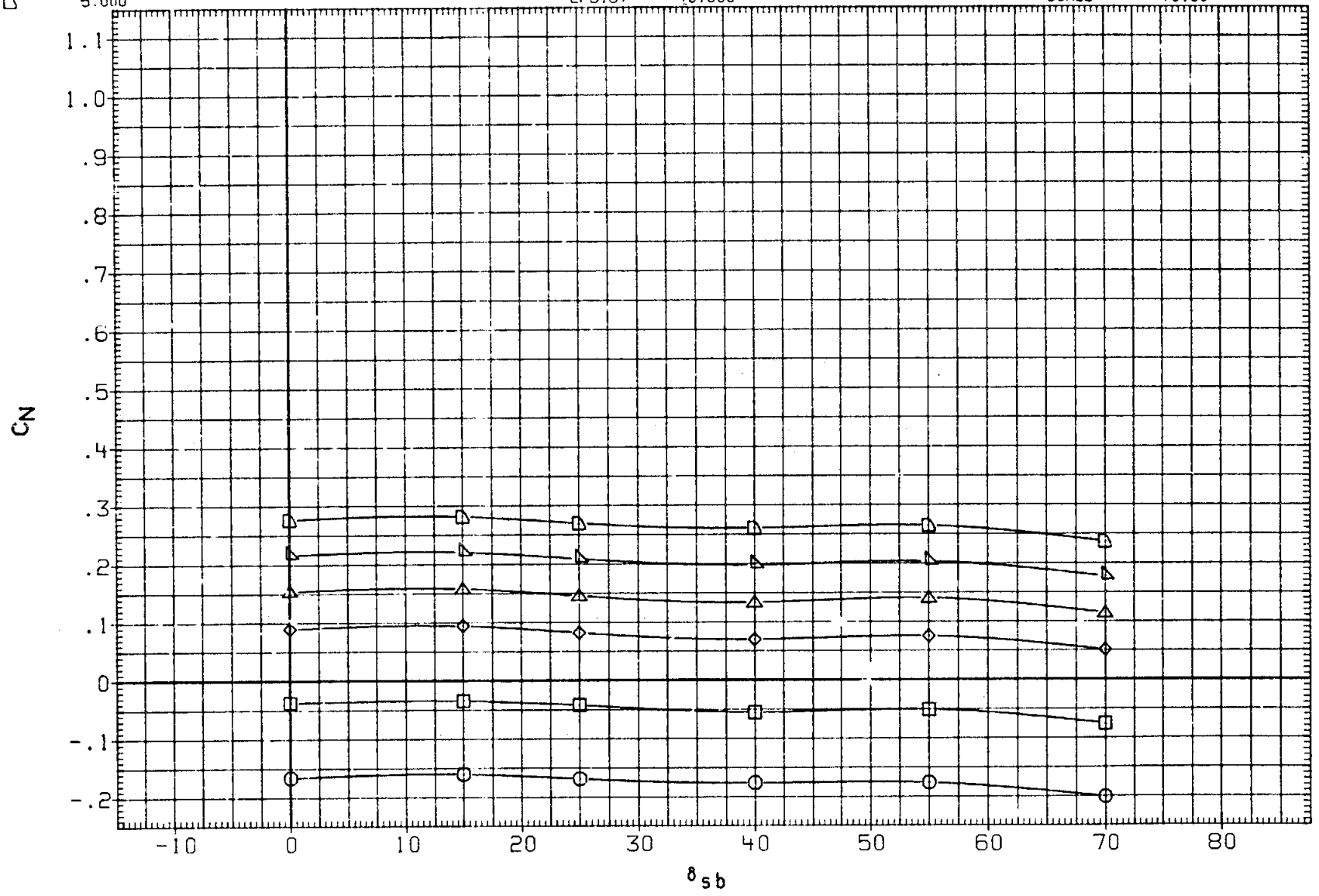

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◺	10.000	BDFLAP	.000			E28084	55.000
◺	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

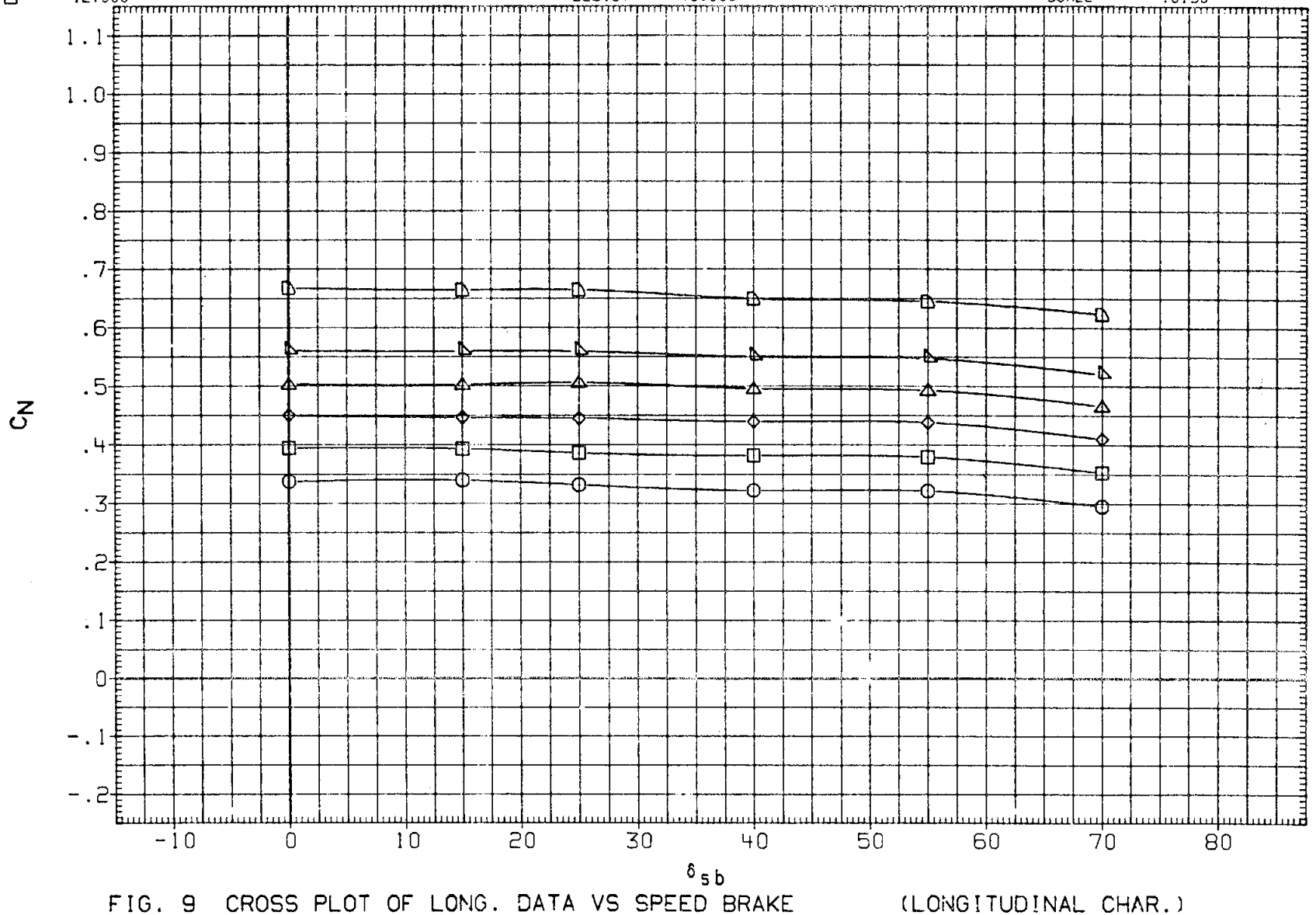

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

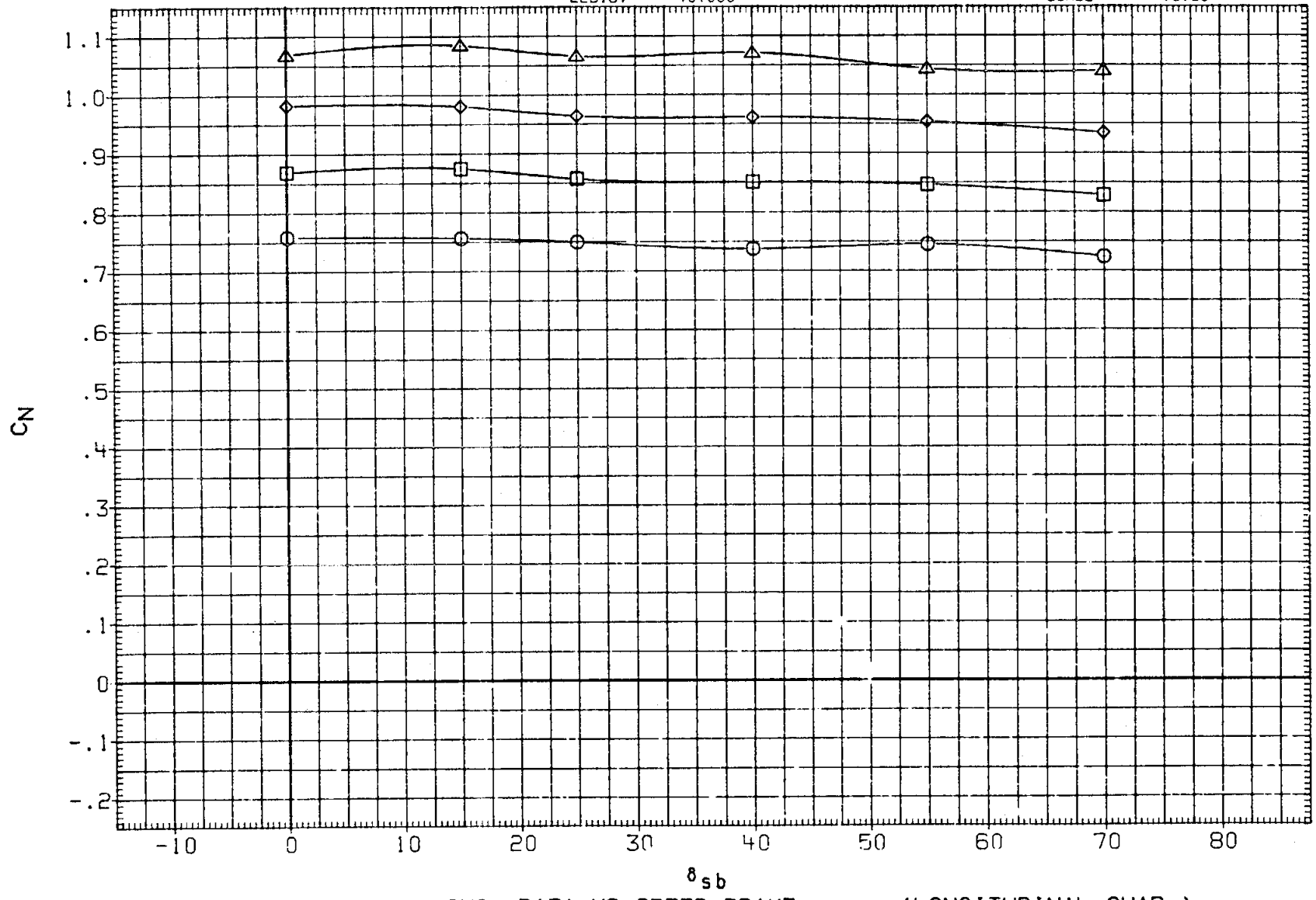

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

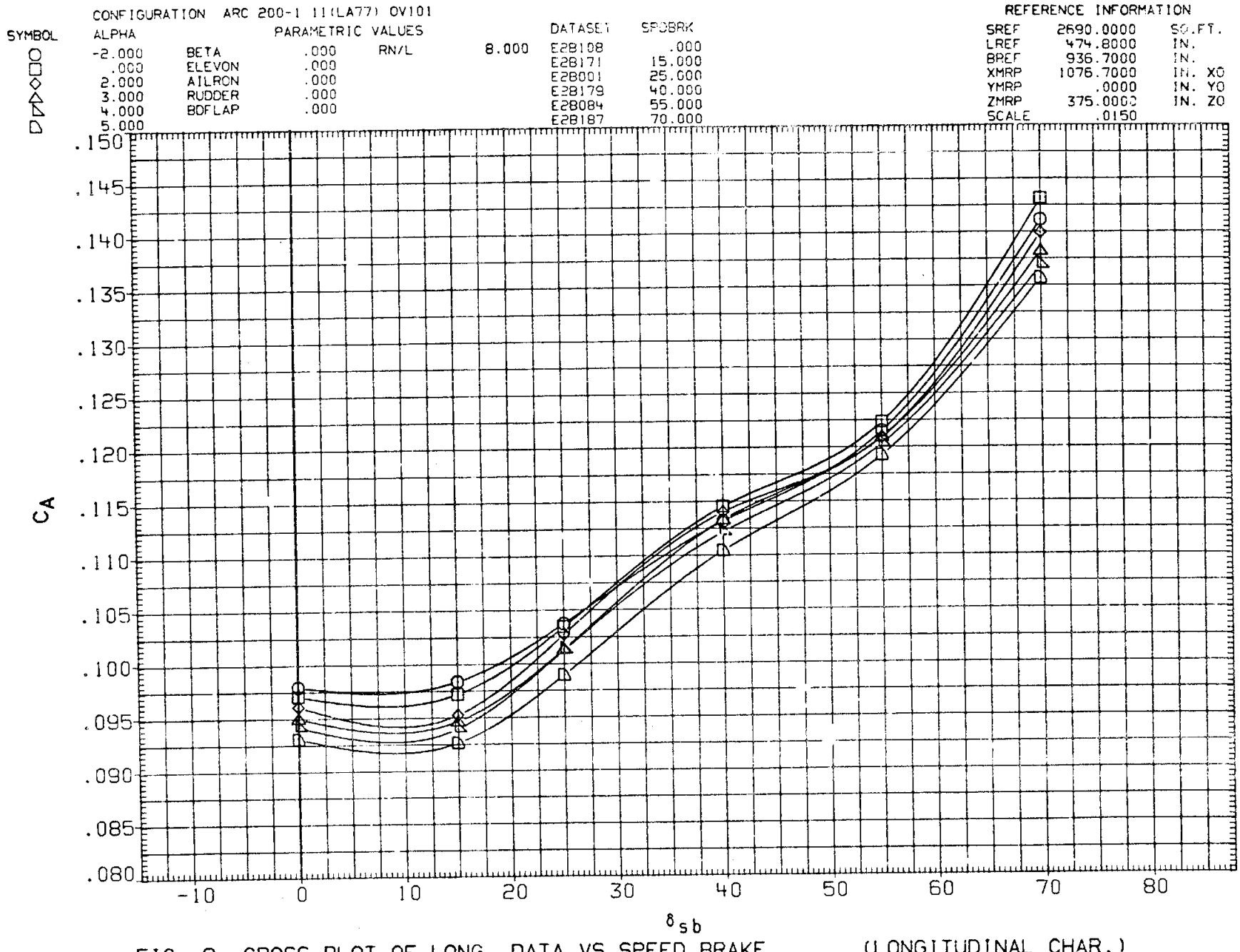

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◁	10.000	BDFLAP	.000			E2B084	55.000
▷	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

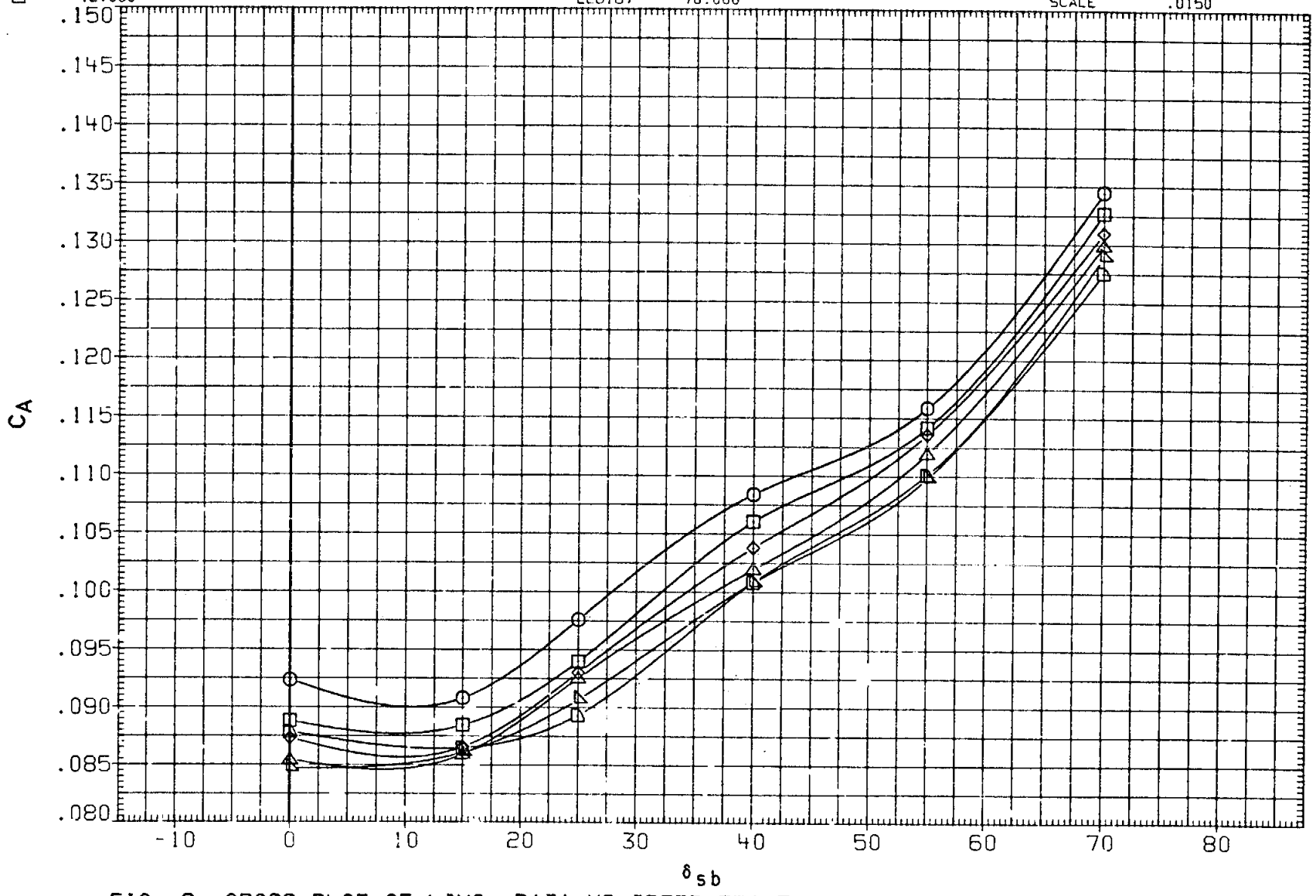

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

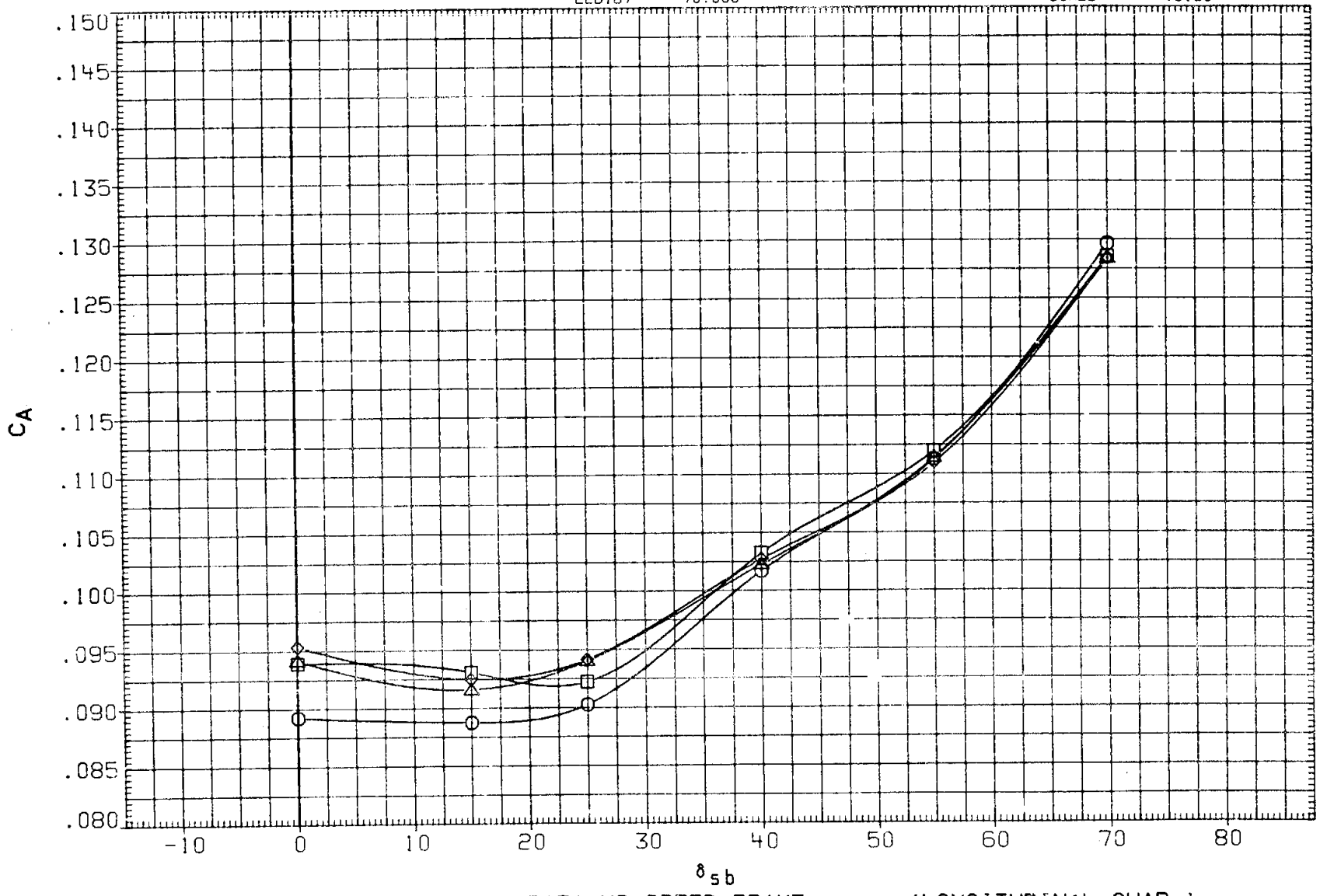

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 1:(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E28179	40.000
◺	4.000	BDFLAP	.000			E28084	55.000
◺	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

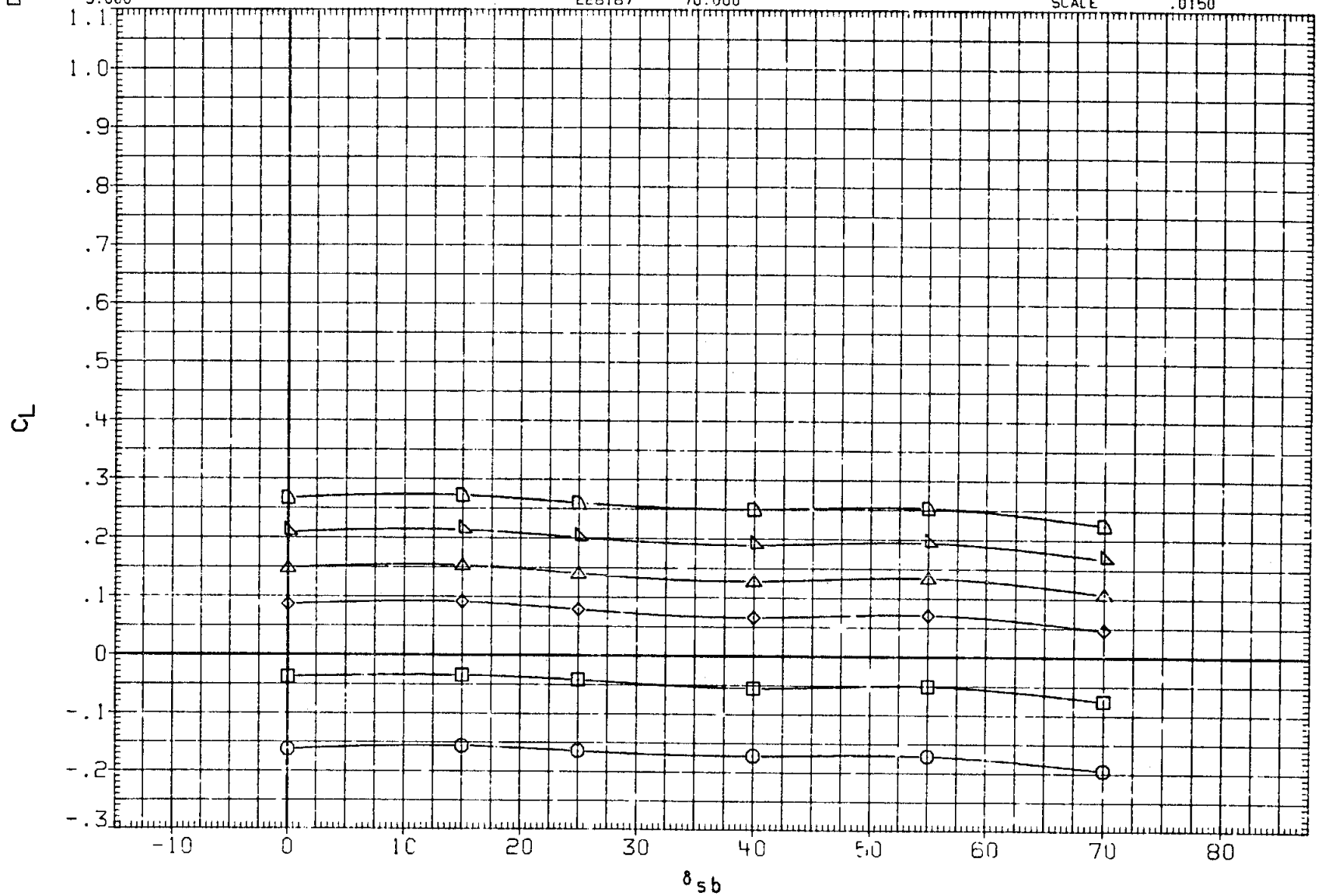

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◁	10.000	BDFLAP	.000			E2B06[illegible]	55.000
▷	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

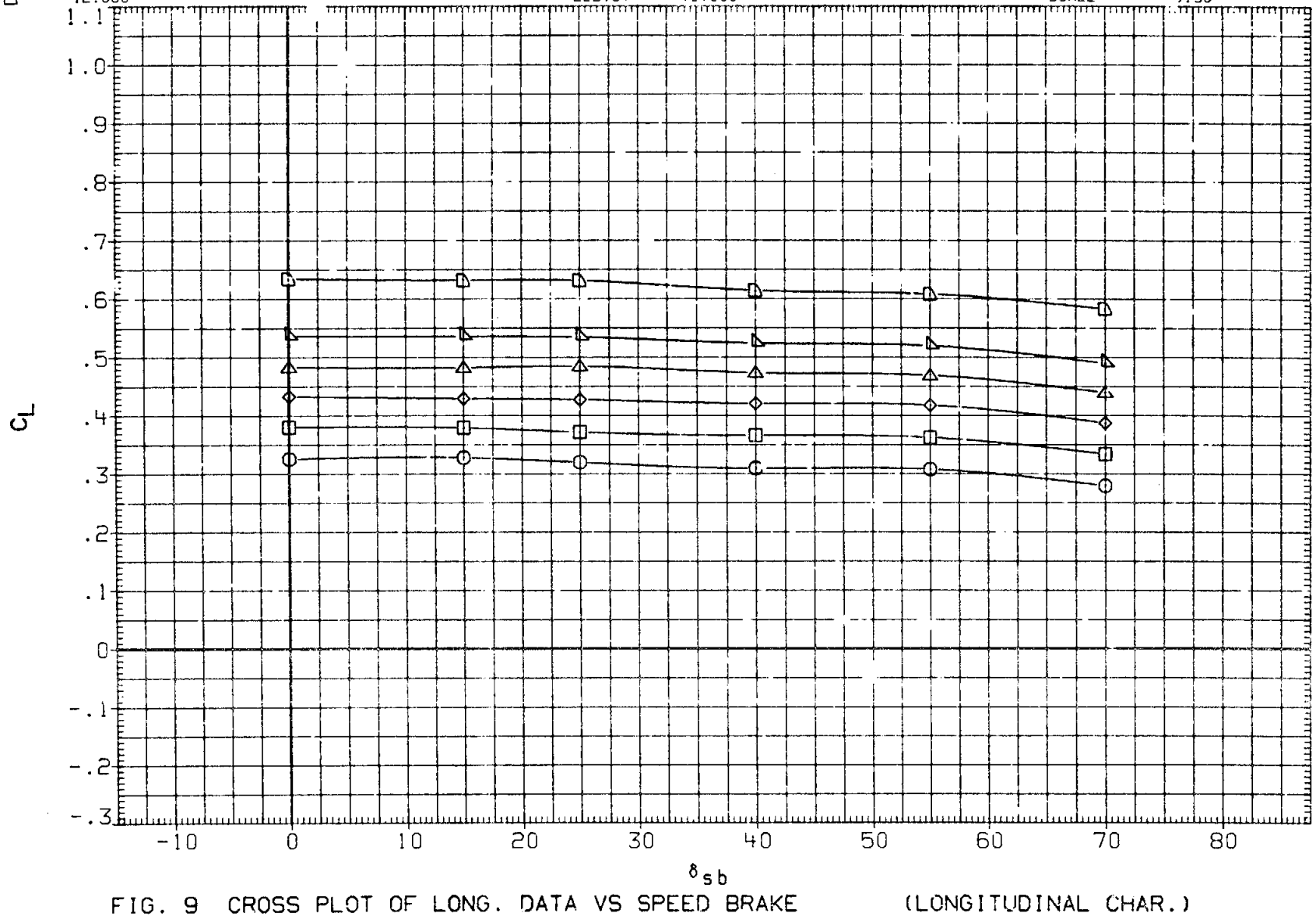

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

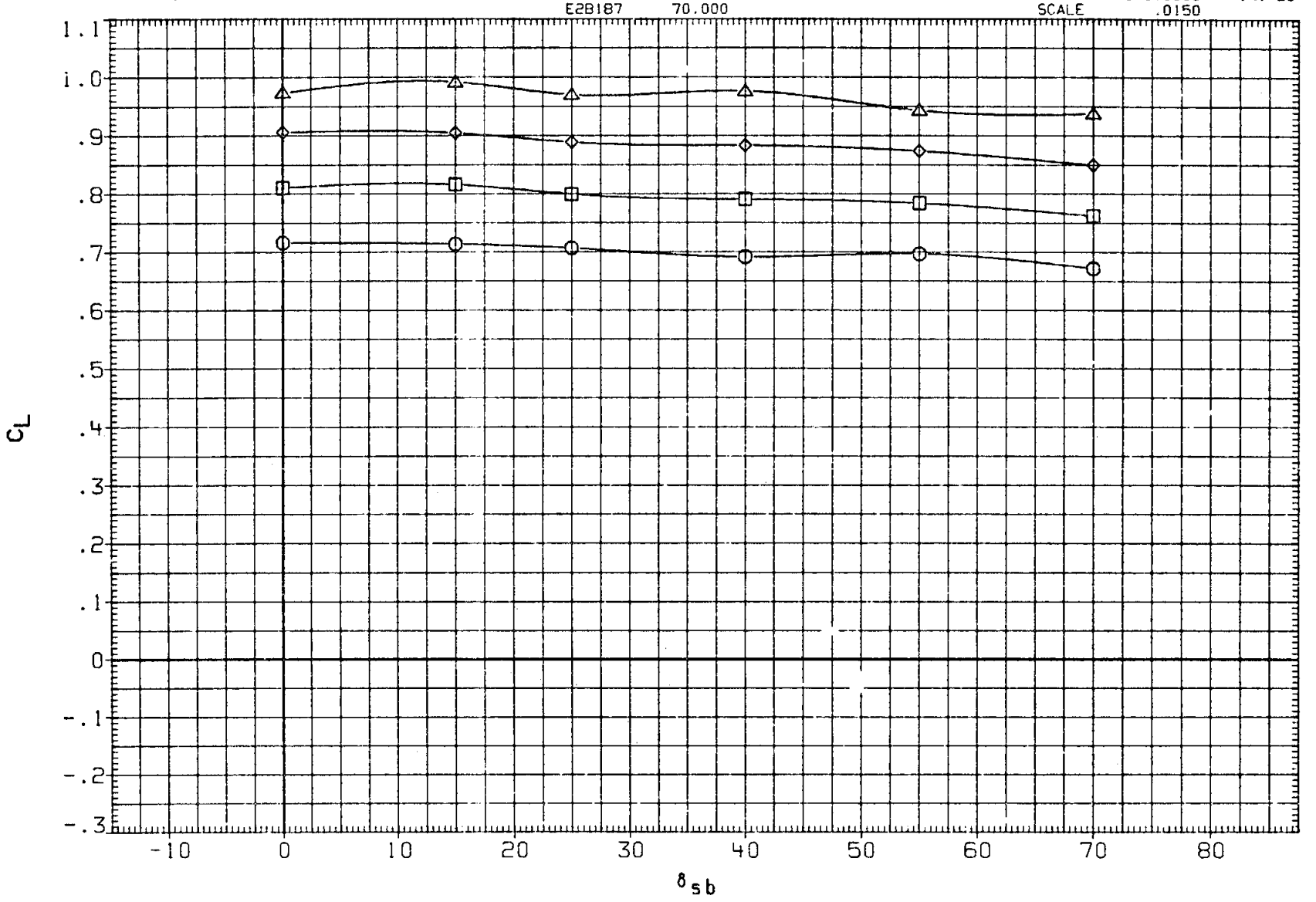

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E28108	.000
□	.000	ELEVON	.000			E28171	15.000
◇	2.000	AILRON	.000			E28001	25.000
△	3.000	RUDDER	.000			E29179	40.000
◁	4.000	BDFLAP	.000			E28084	55.000
▷	5.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

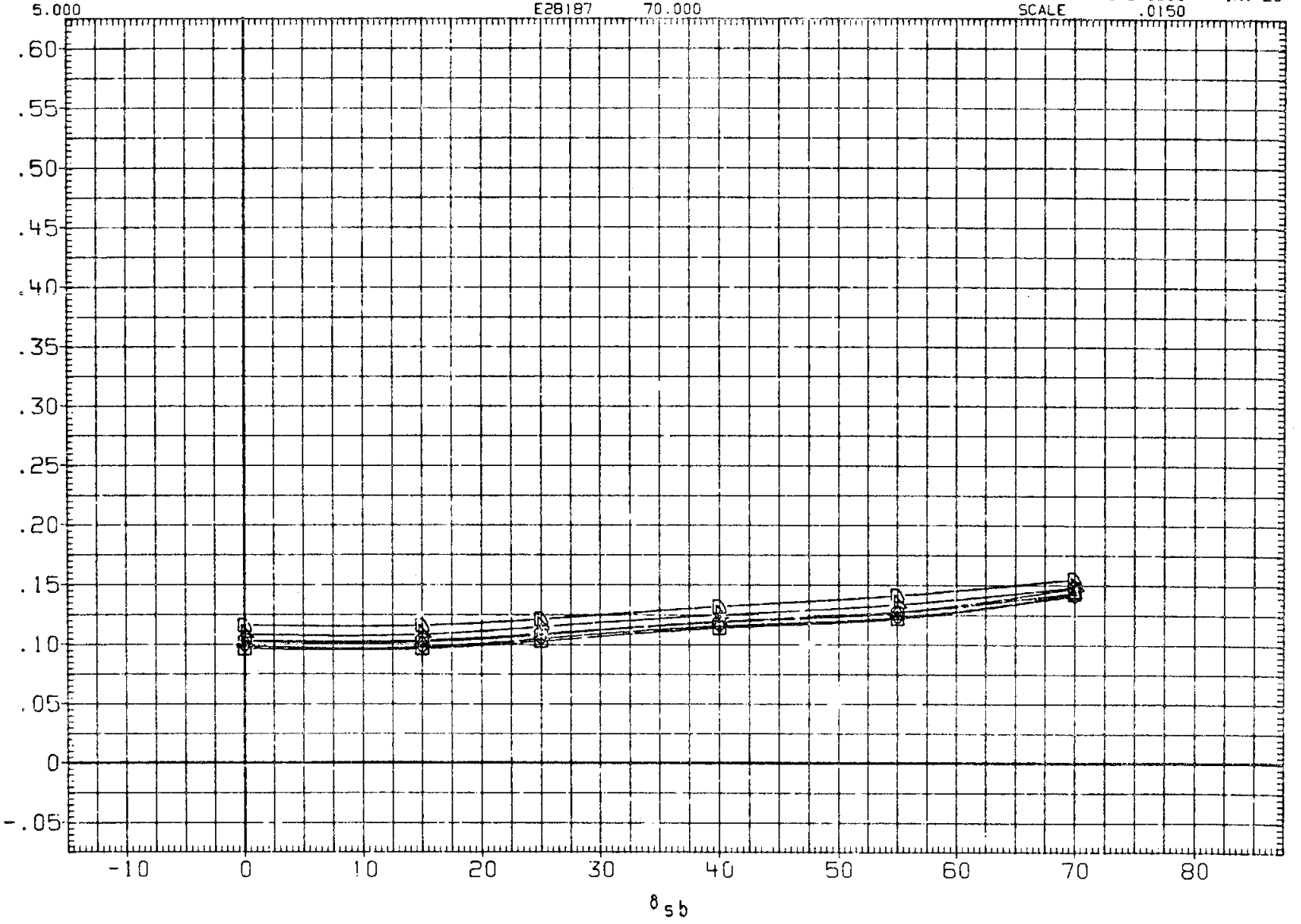

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◺	10.000	BDFLAP	.000			E28084	55.000
◸	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

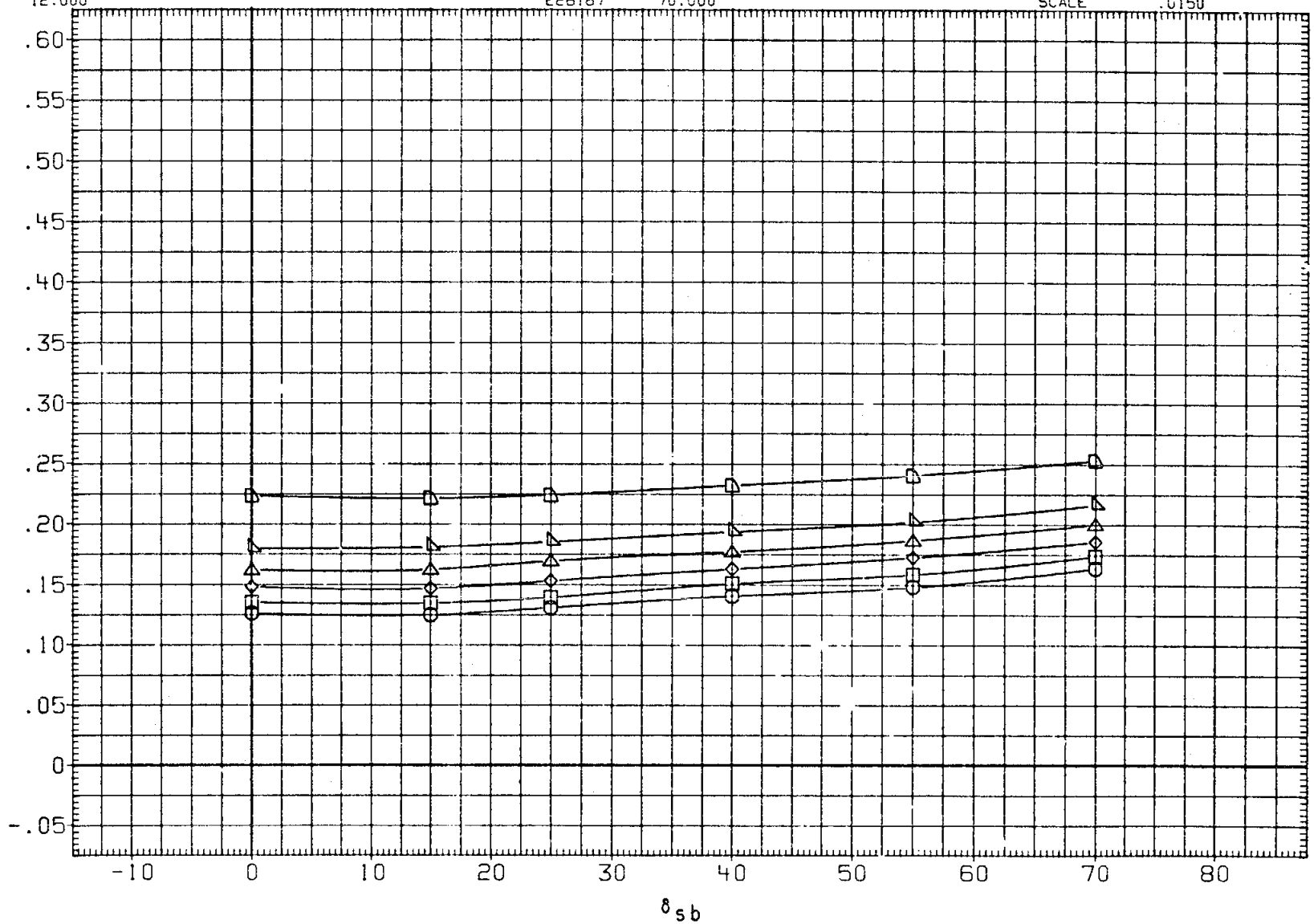

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

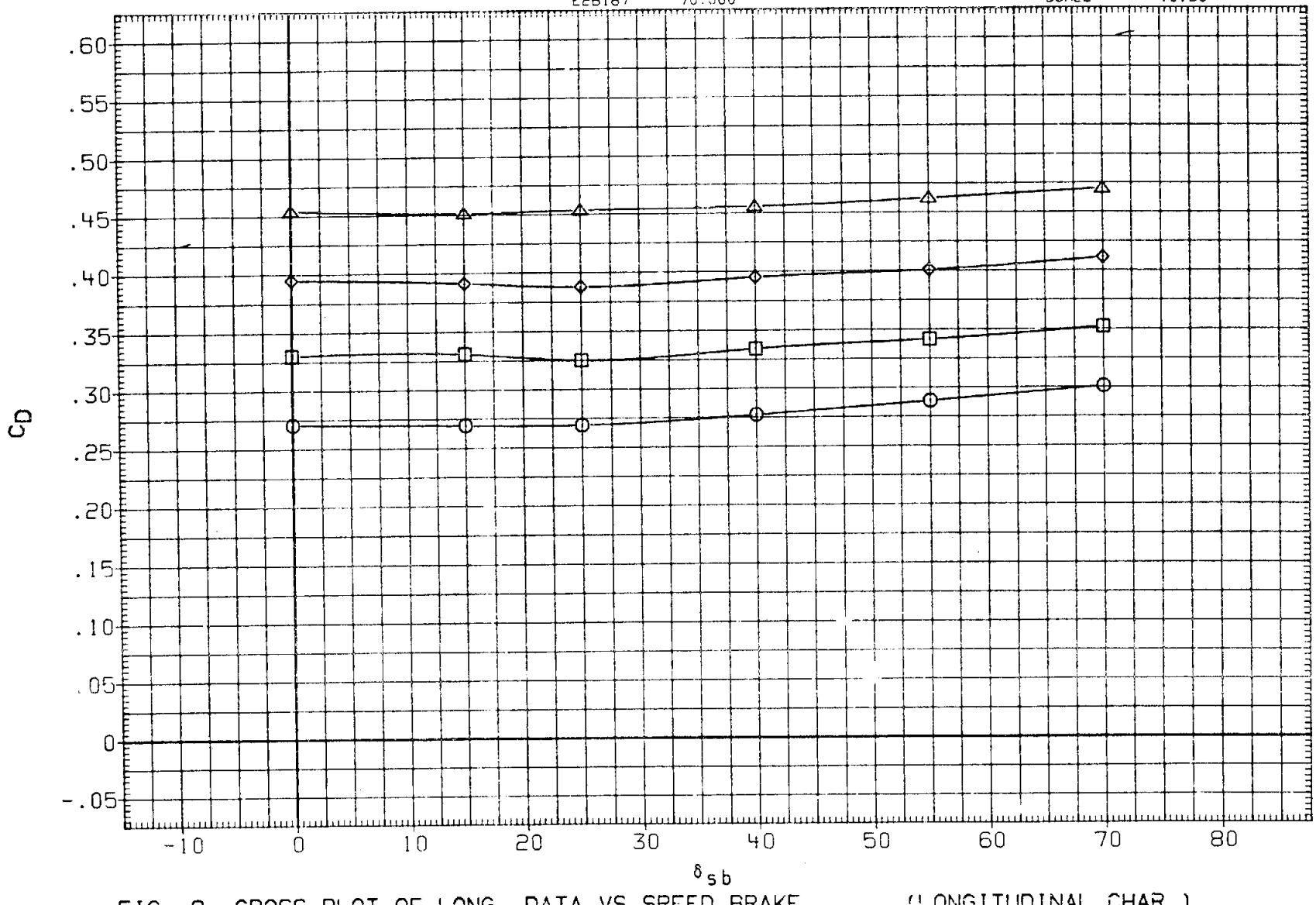

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◸	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

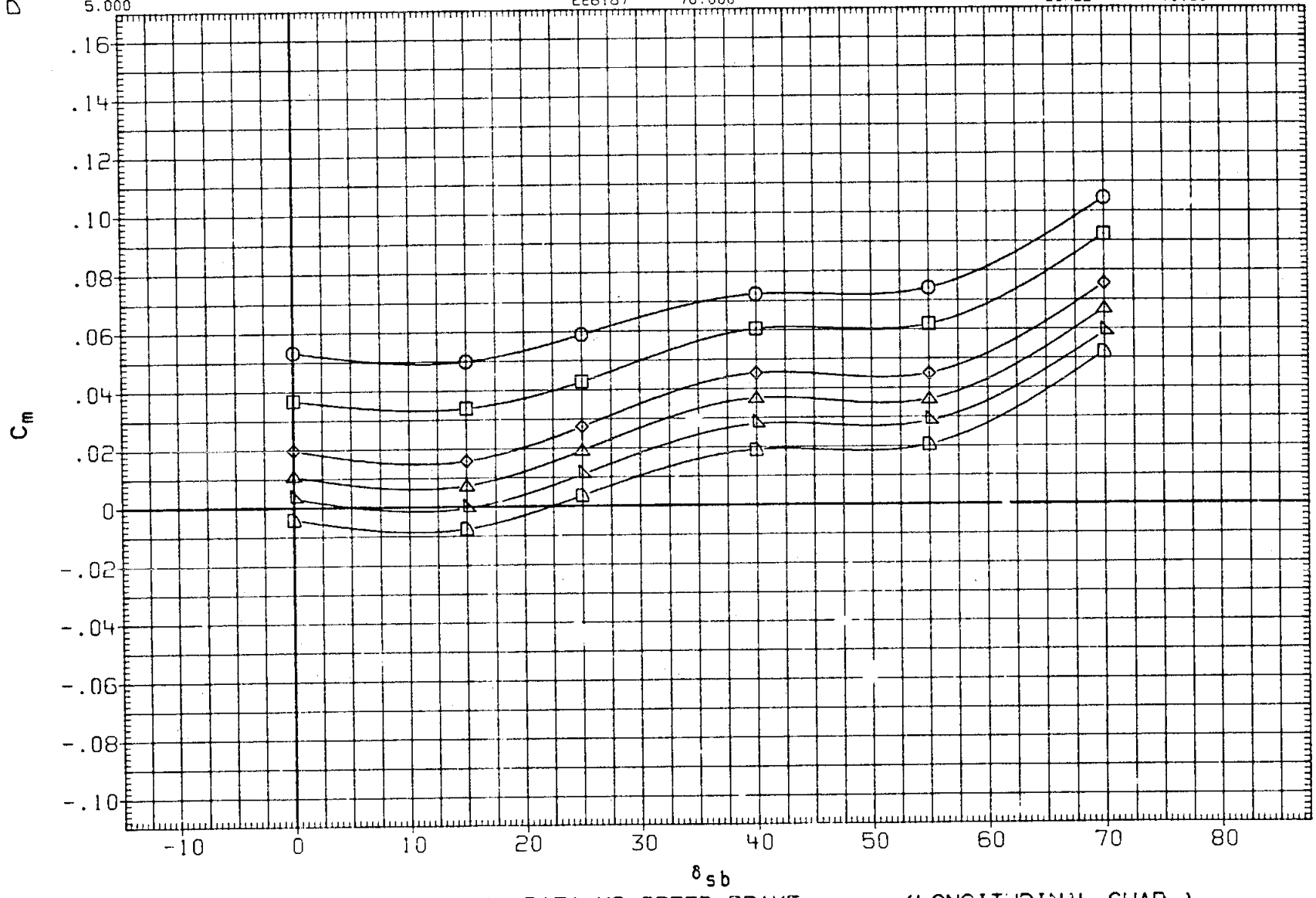

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 1:(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◺	10.000	BDFLAP	.000			E28084	55.000
◸	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

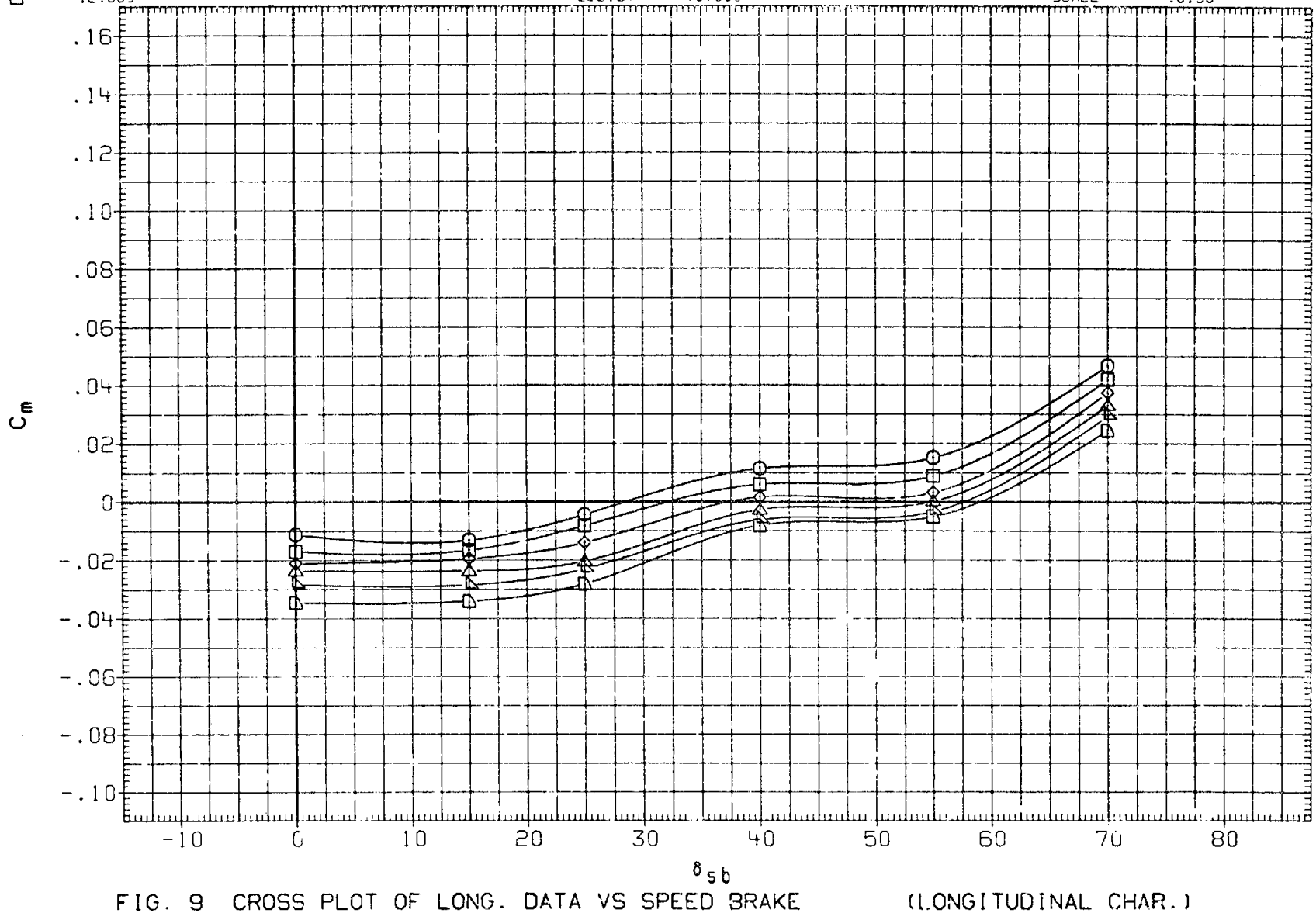

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	930.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

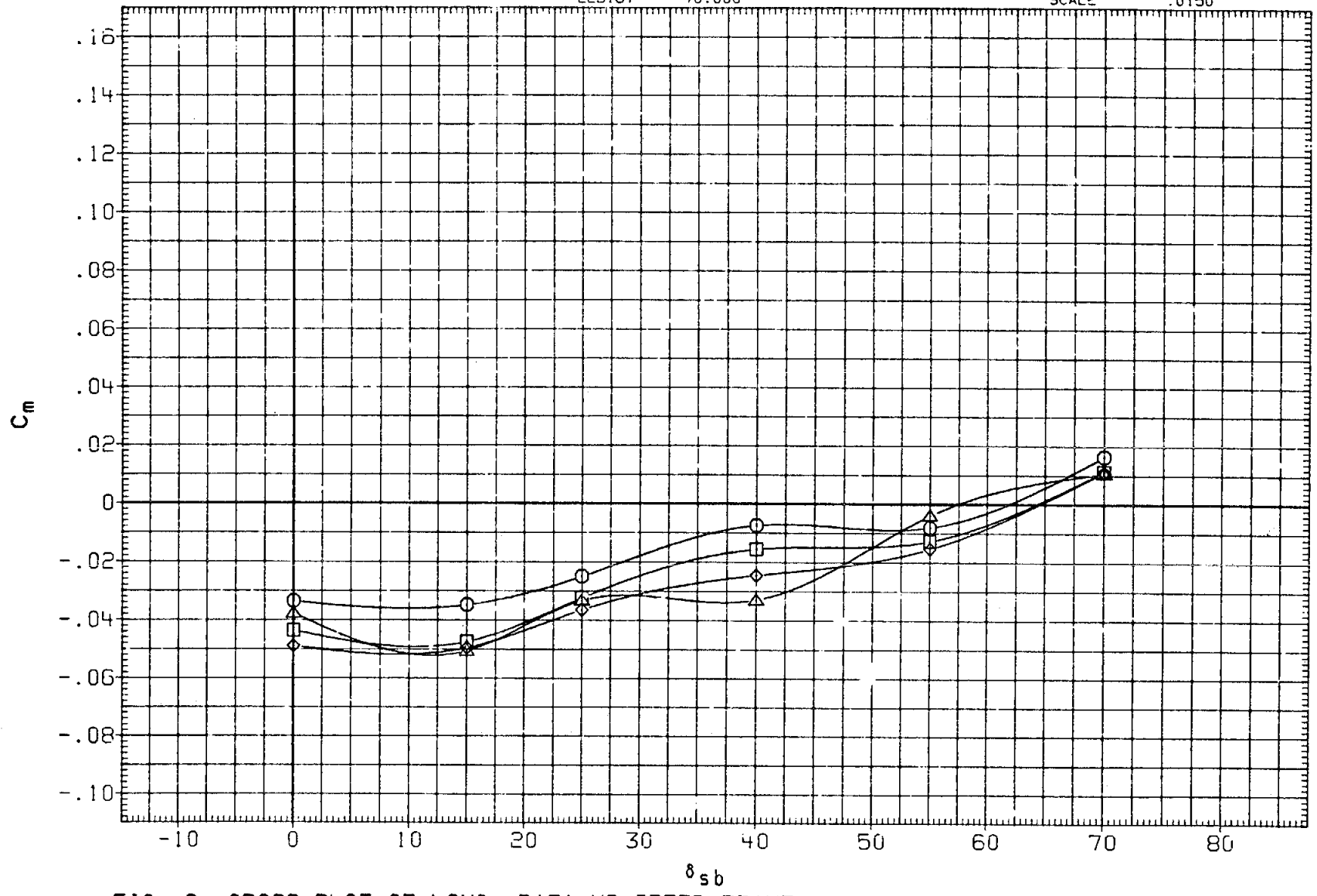

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E23001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◁	4.000	BDFLAP	.000			E2B084	55.000
▷	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

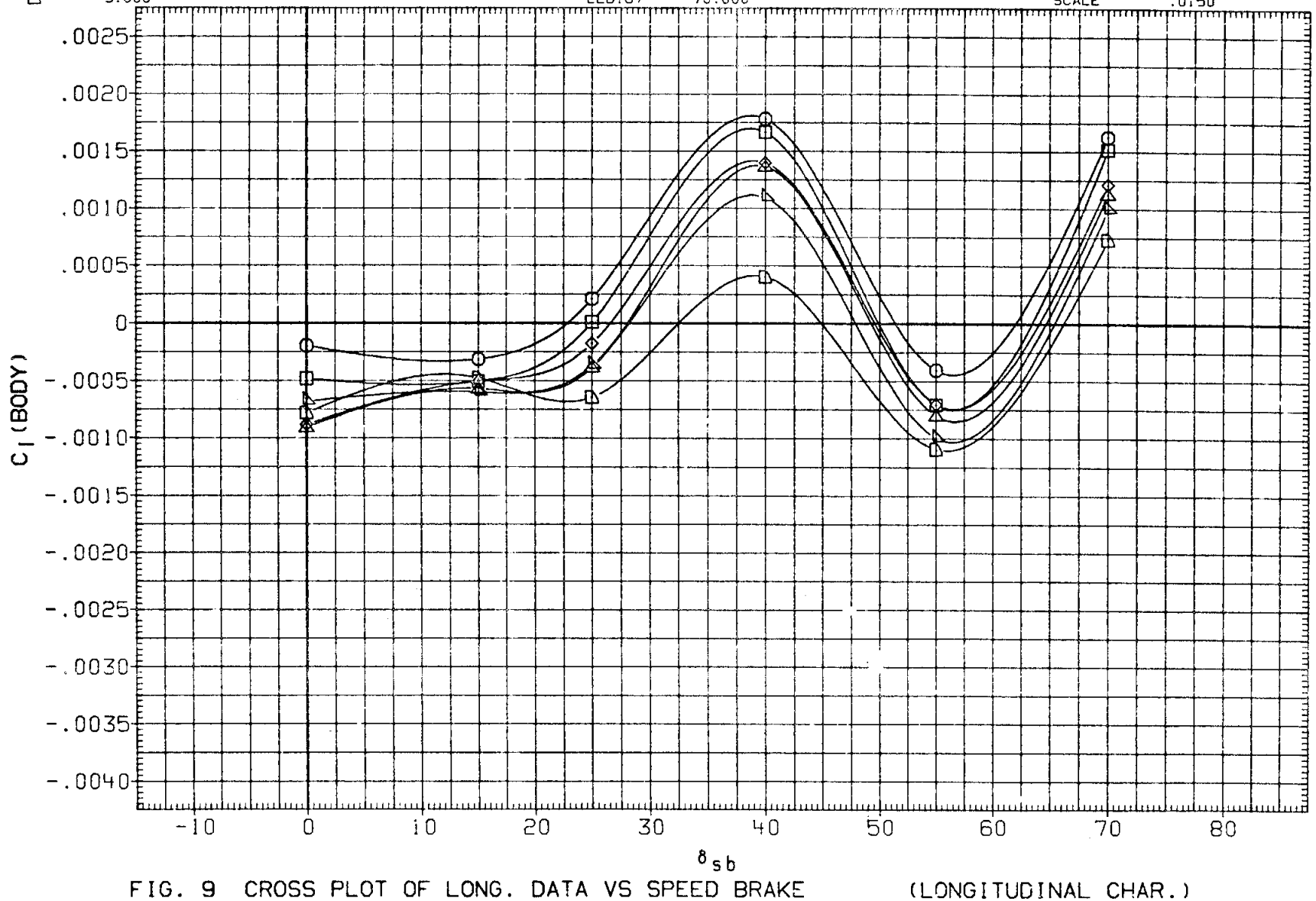

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
▷	10.000	BDFLAP	.000			E28084	55.000
▽	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

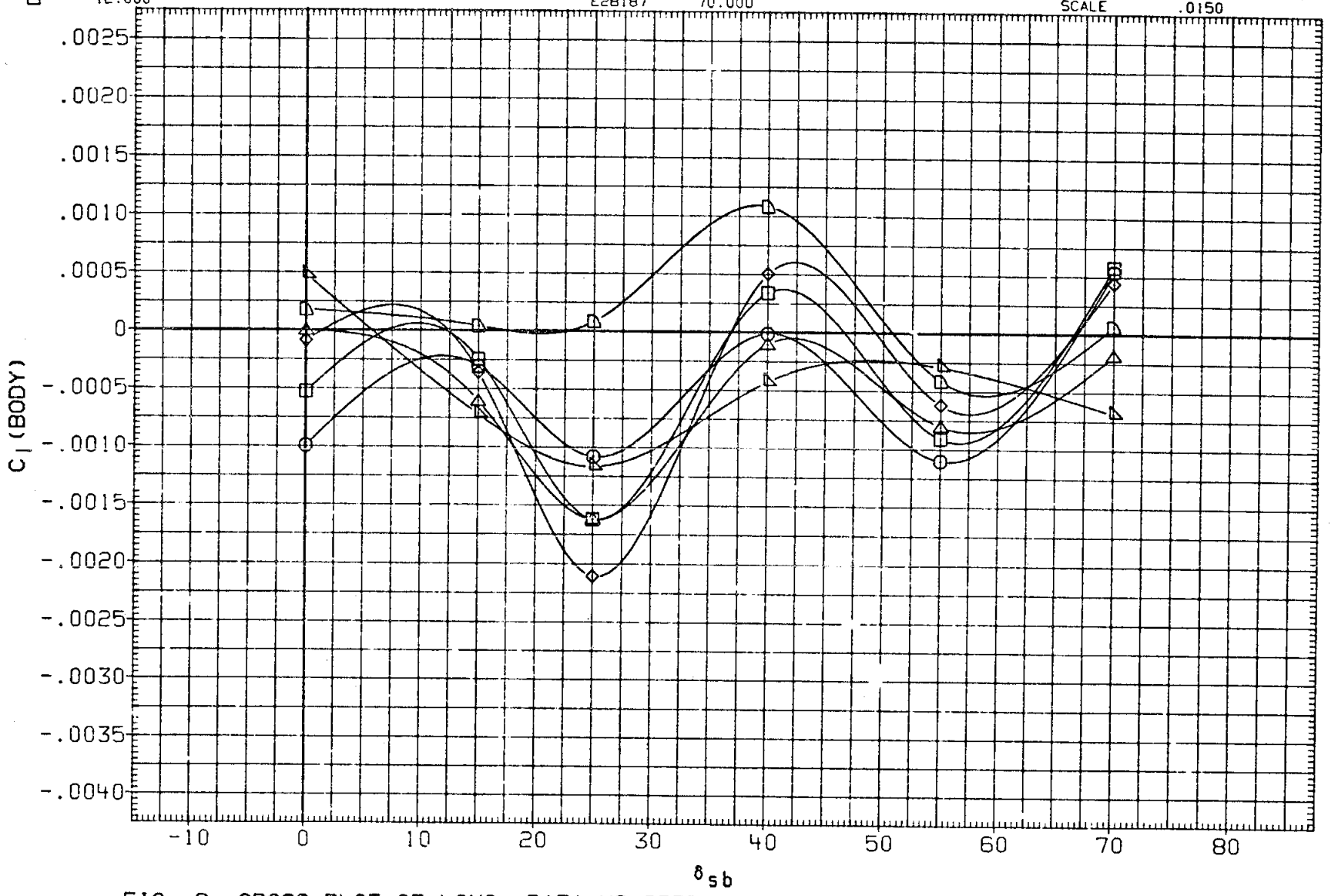

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

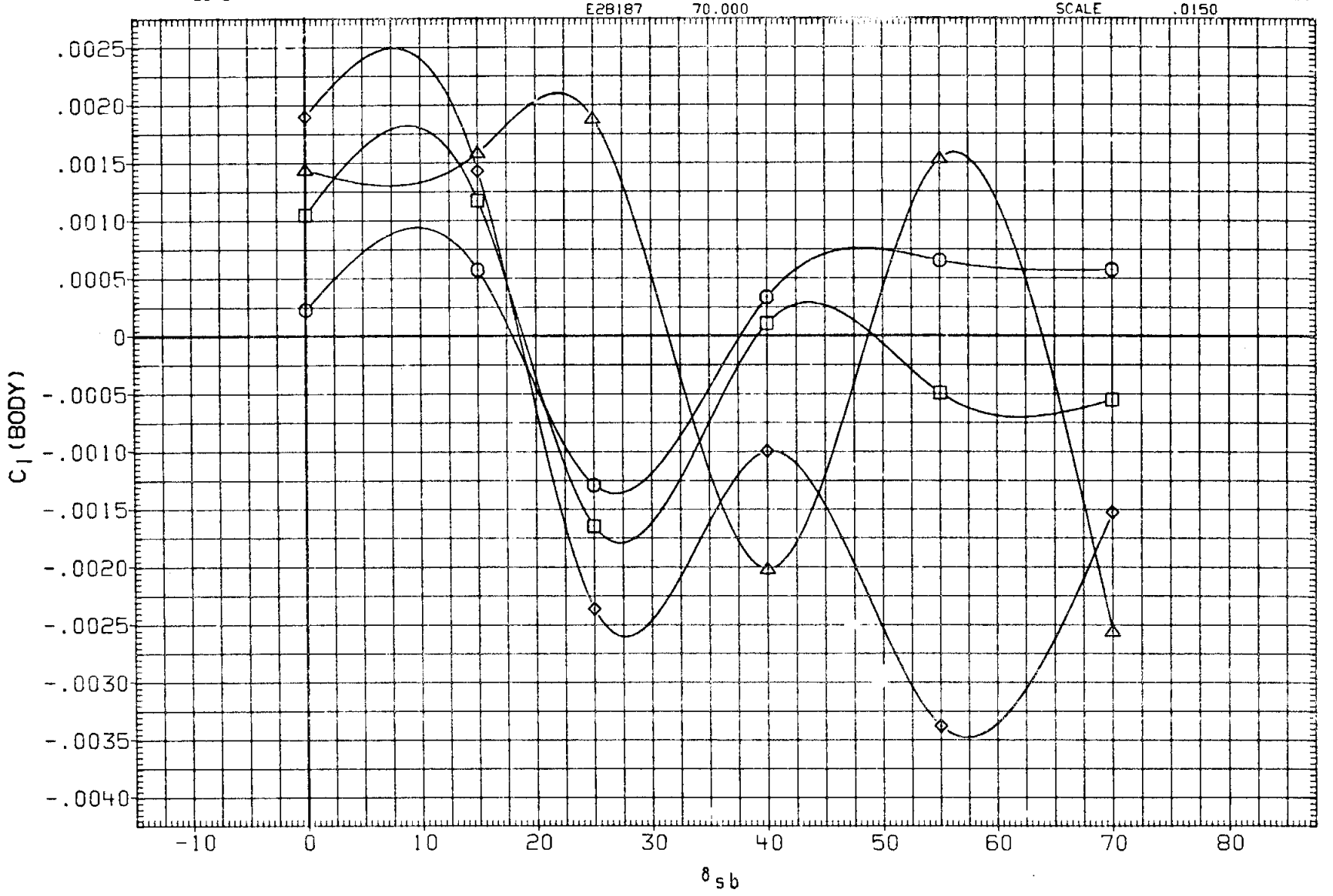

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

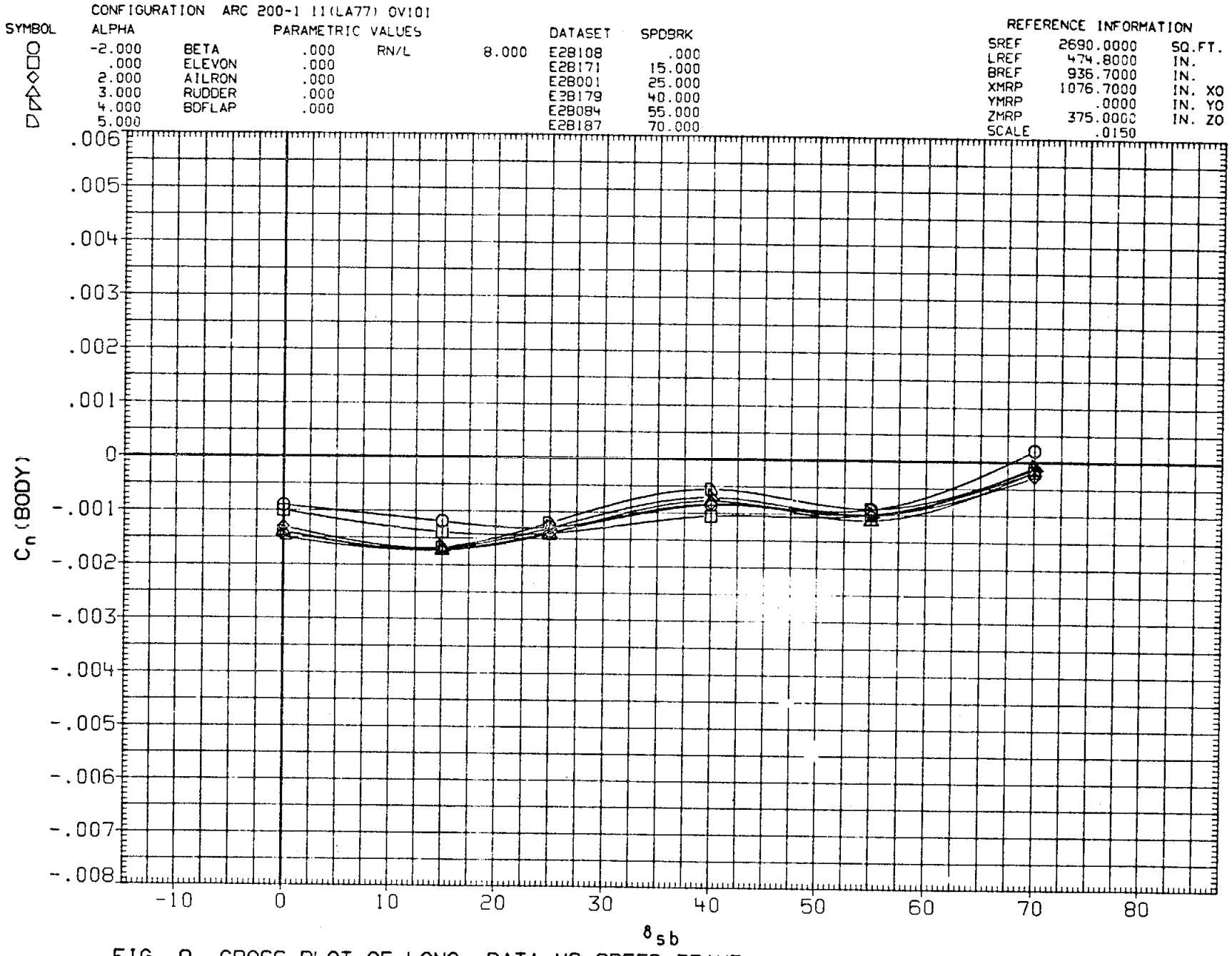

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

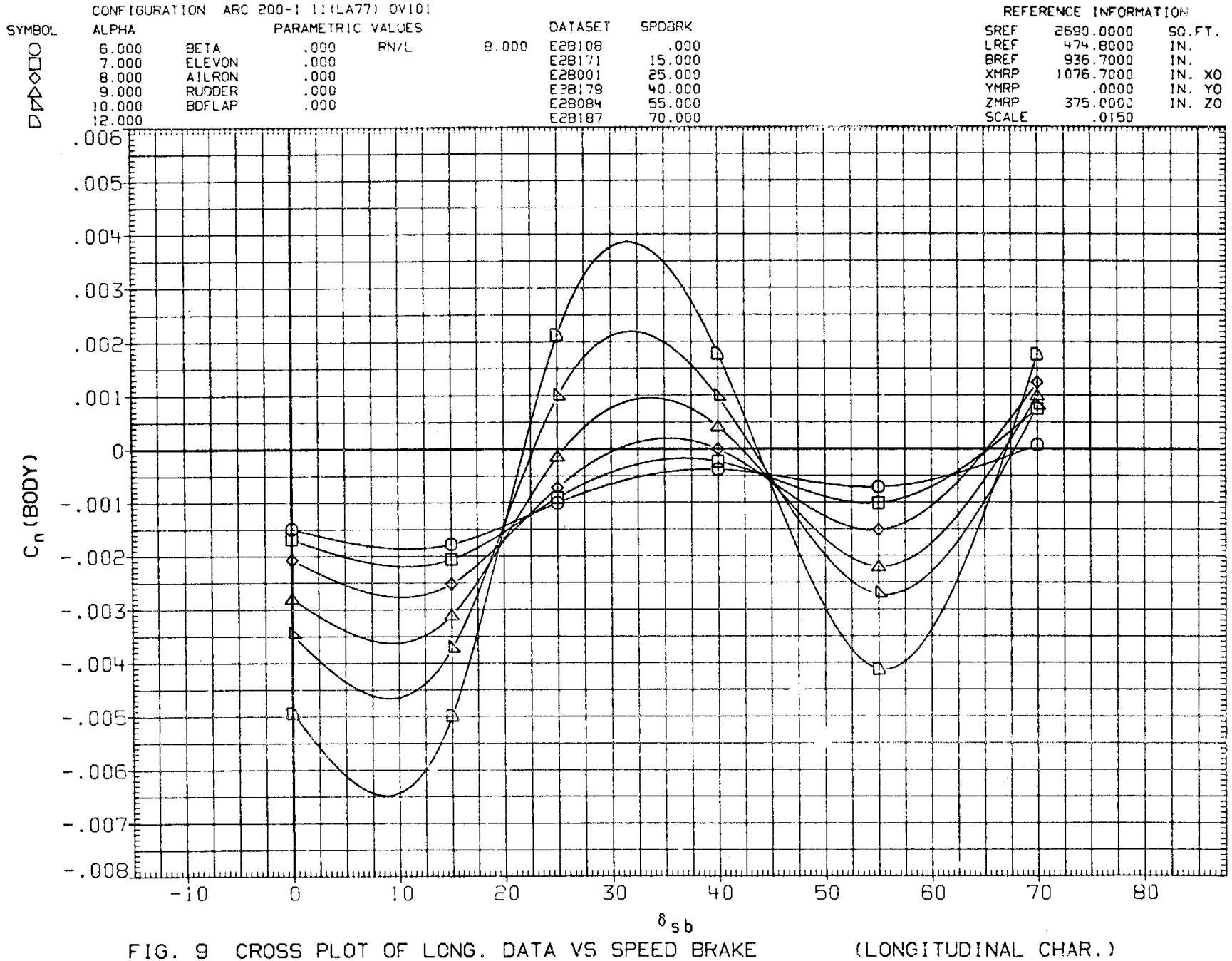

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

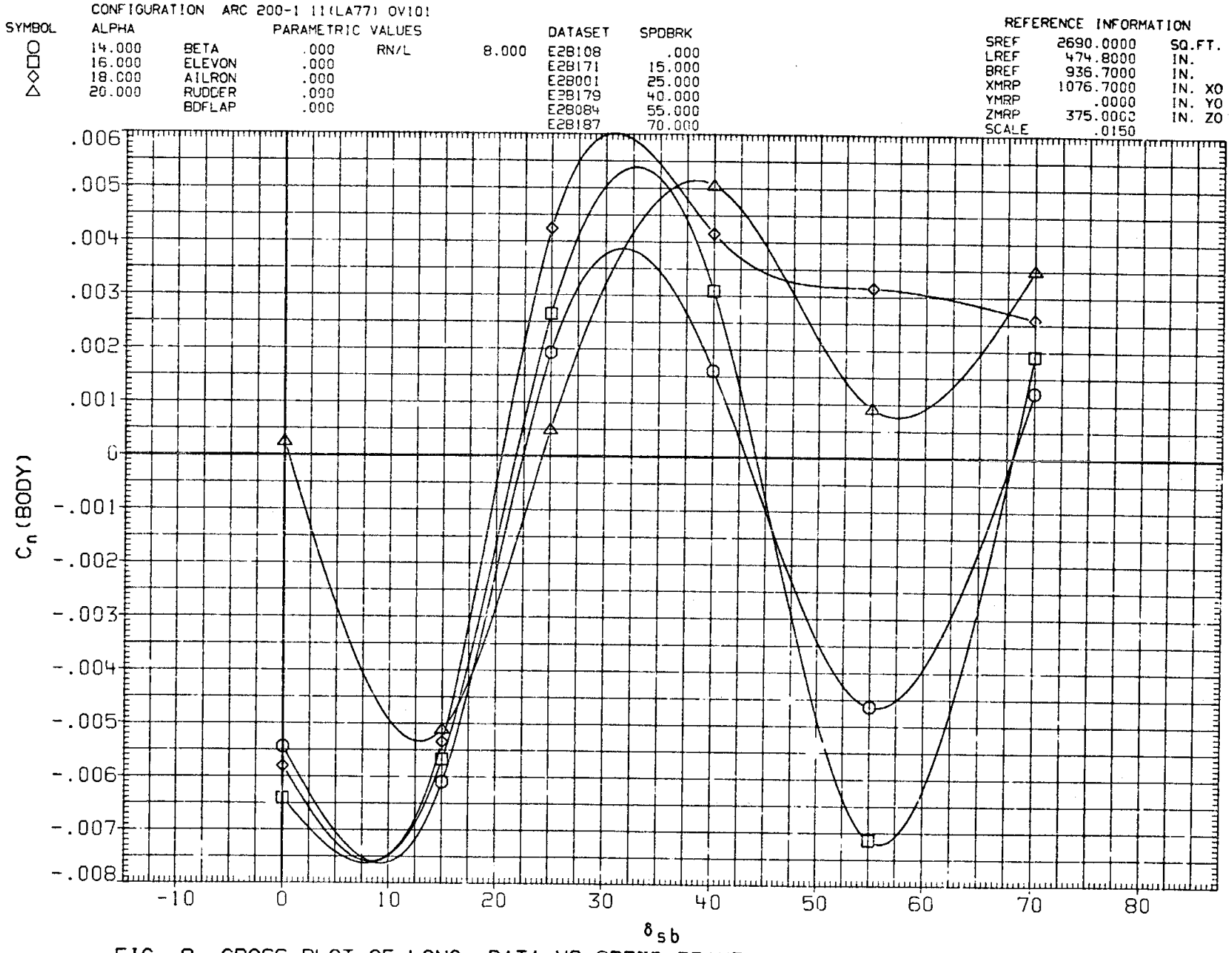

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B) MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES					DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000		E2B108	.000
□	.000	ELEVON	.000				E2B171	15.000
◇	2.000	AILRON	.000				E2B001	25.000
△	3.000	RUDDER	.000				E2B179	40.000
◁	4.000	BDFLAP	.000				E2B084	55.000
▷	5.000						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

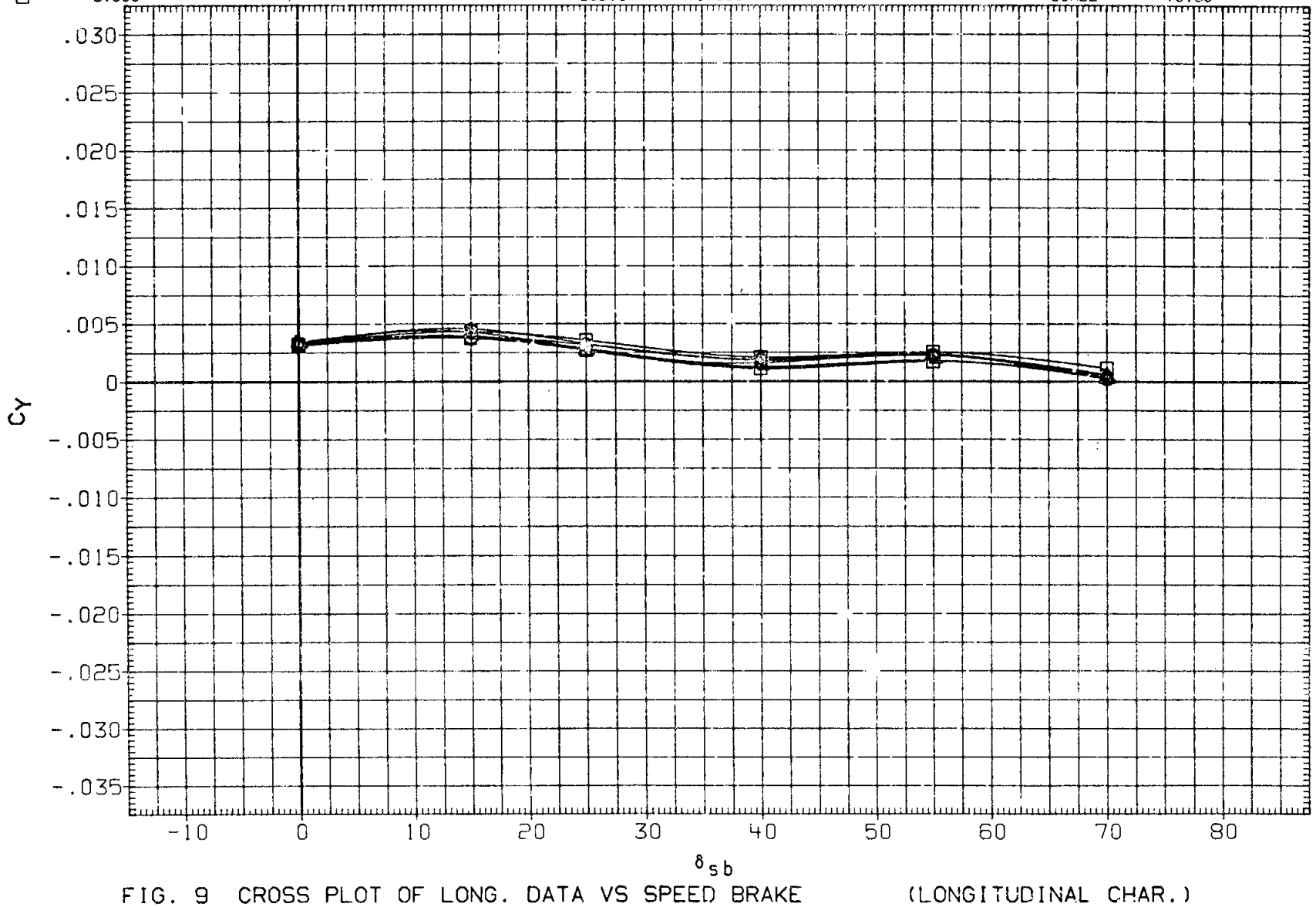

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
◁	9.000	RUDDER	.000			E28179	40.000
▷	10.000	BDFLAP	.000			E28084	55.000
△	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

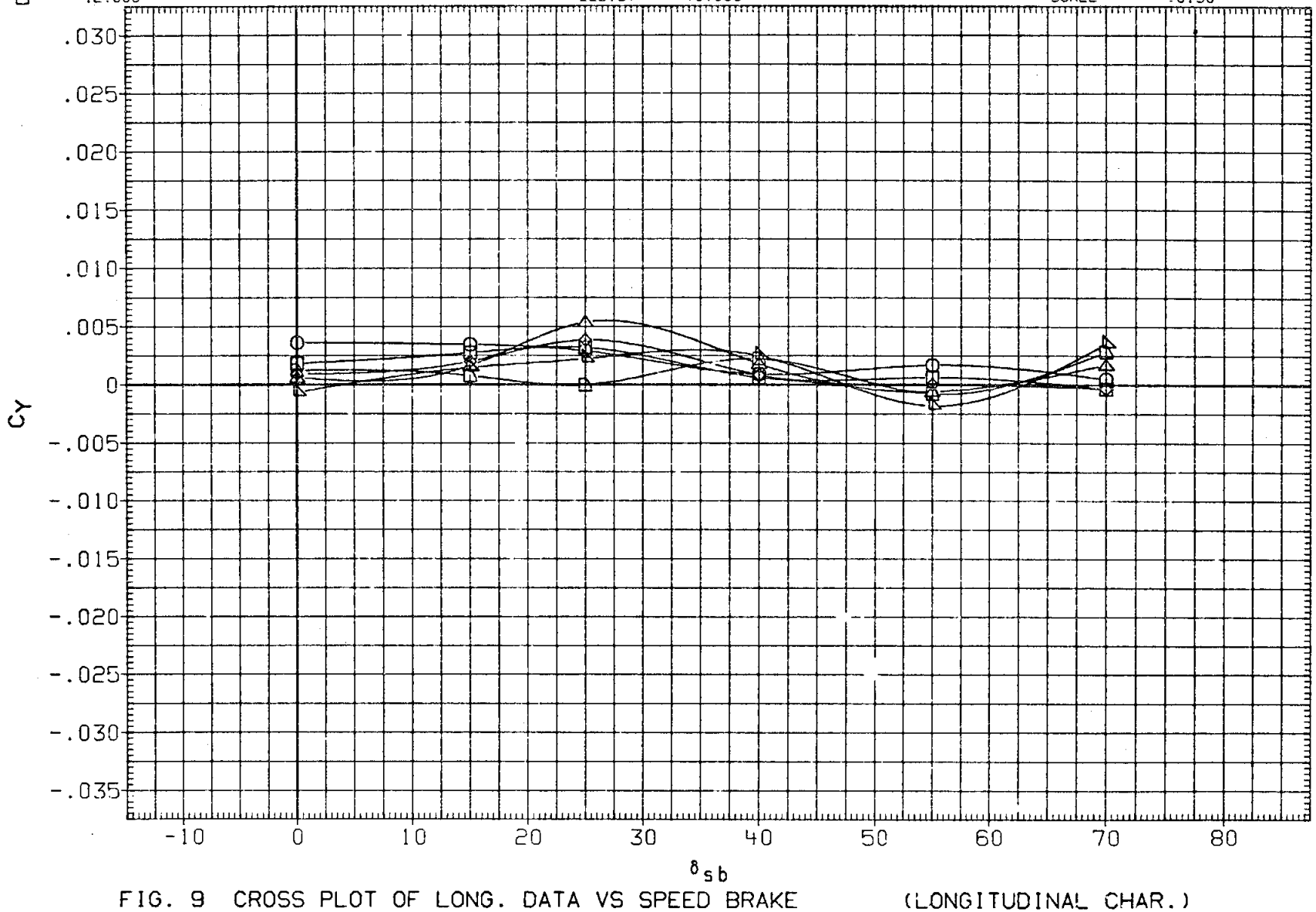

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

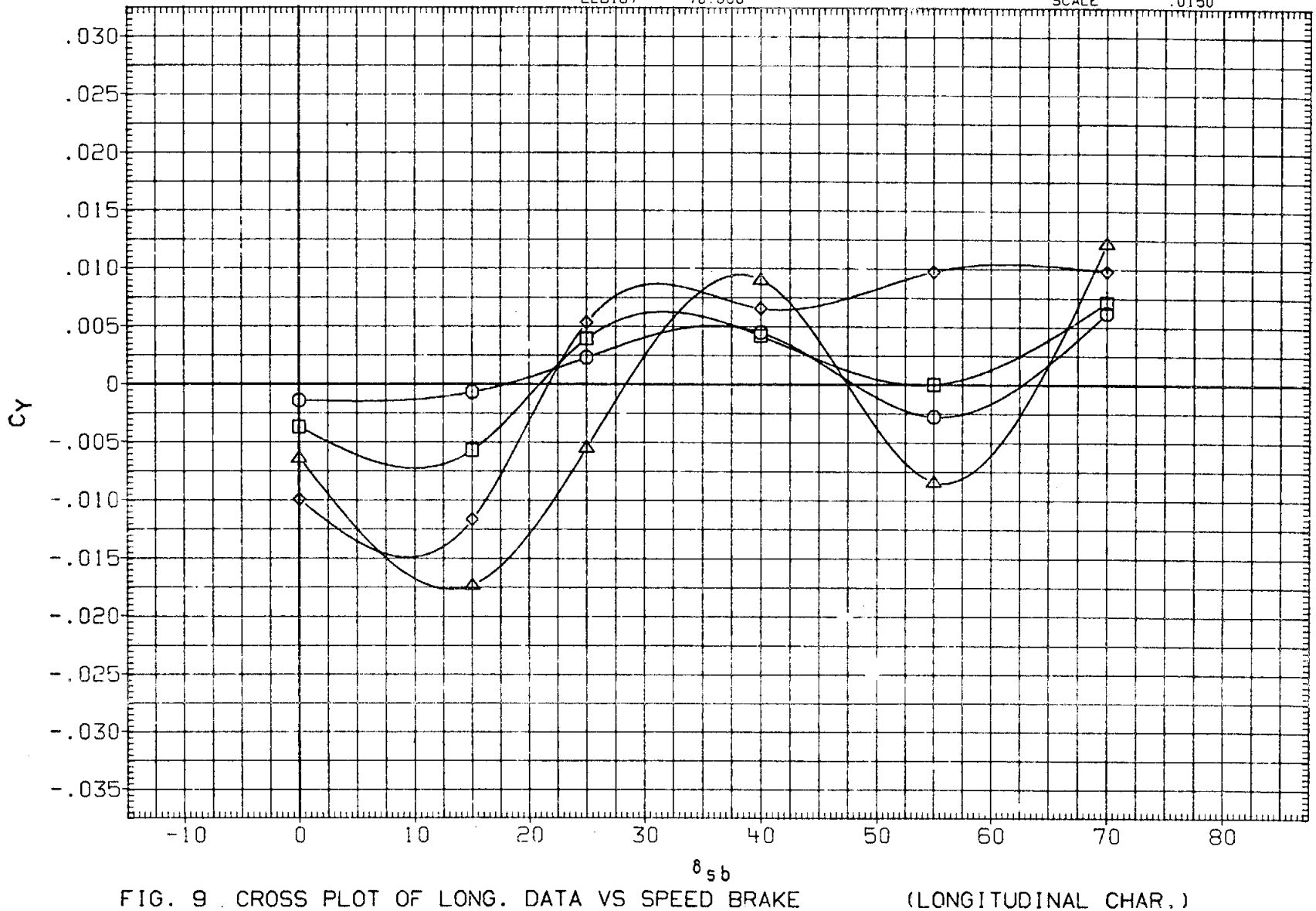

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(B)MACH = .95

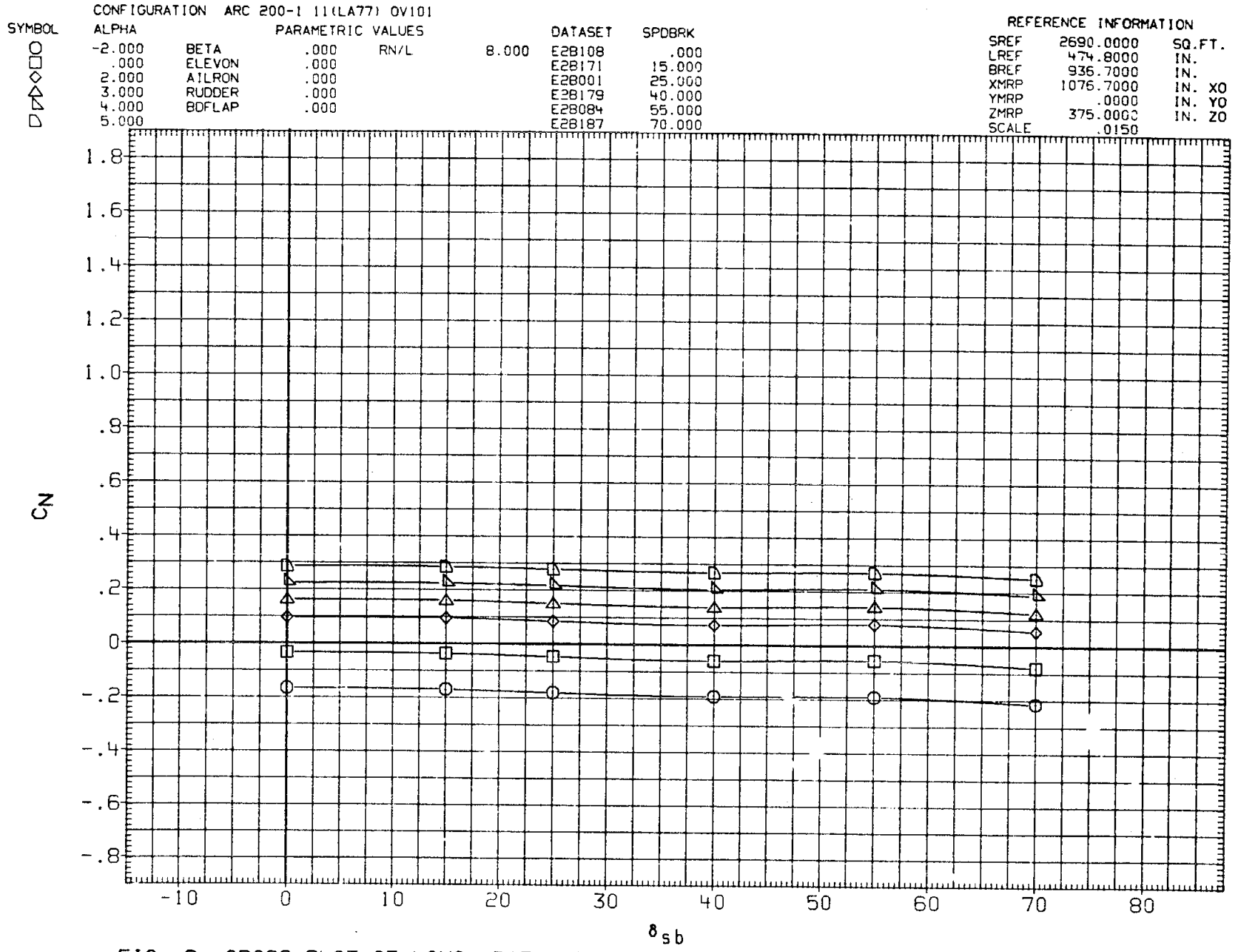

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV10!

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◺	10.000	BDFLAP	.000			E2B084	55.000
◸	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

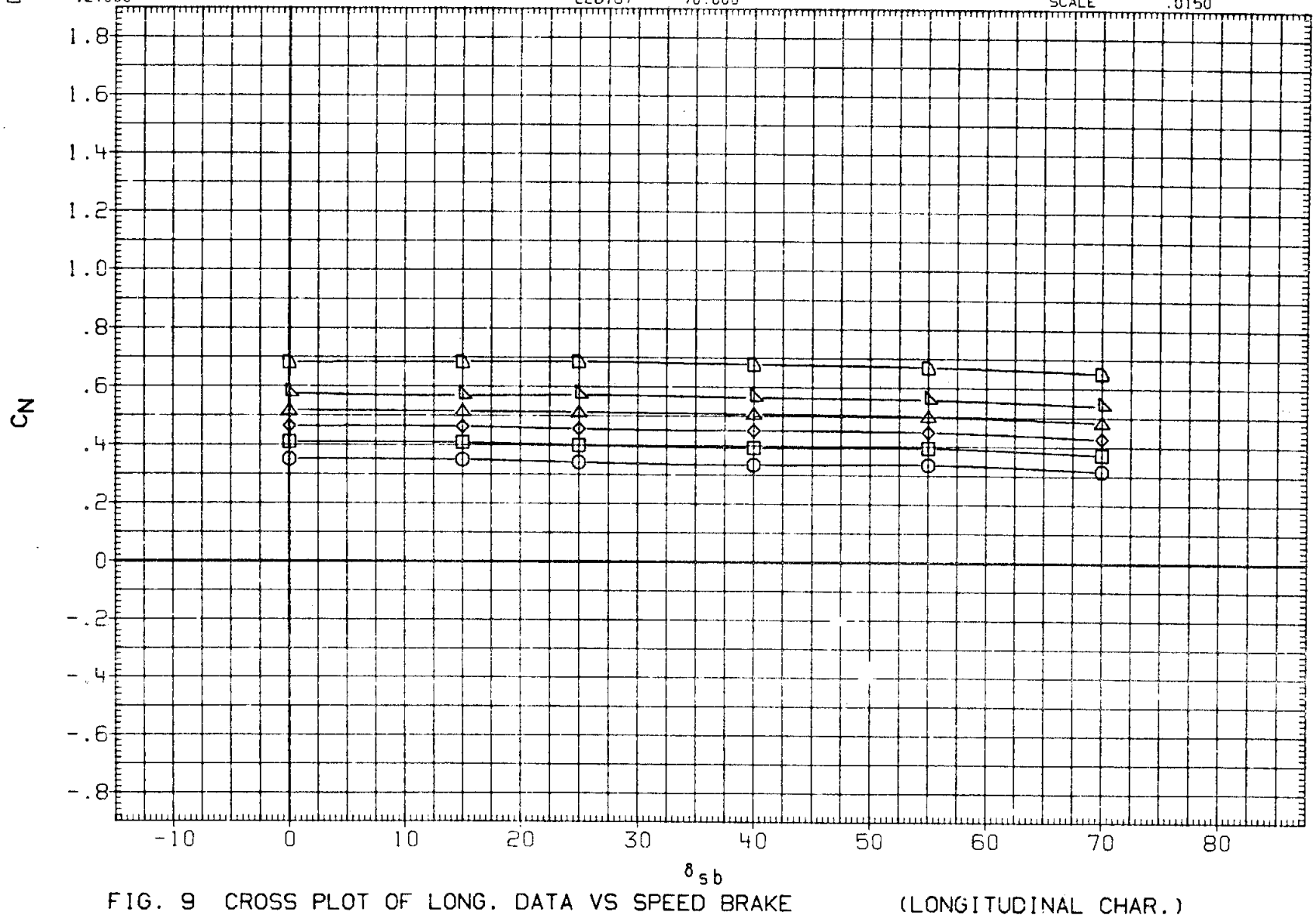

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

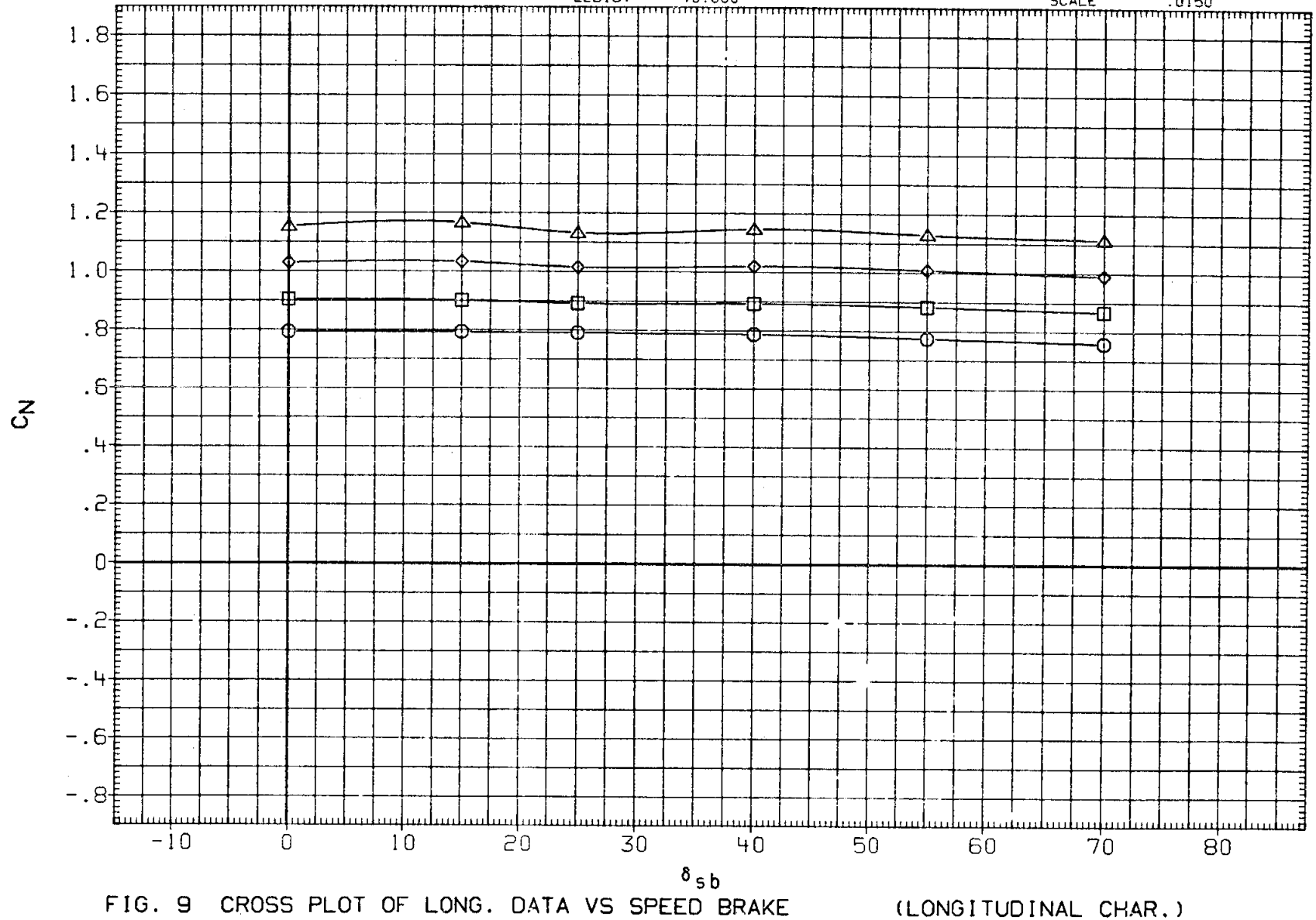

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPOBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◁	4.000	BDFLAP	.000			E2B084	55.000
▷	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMPP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

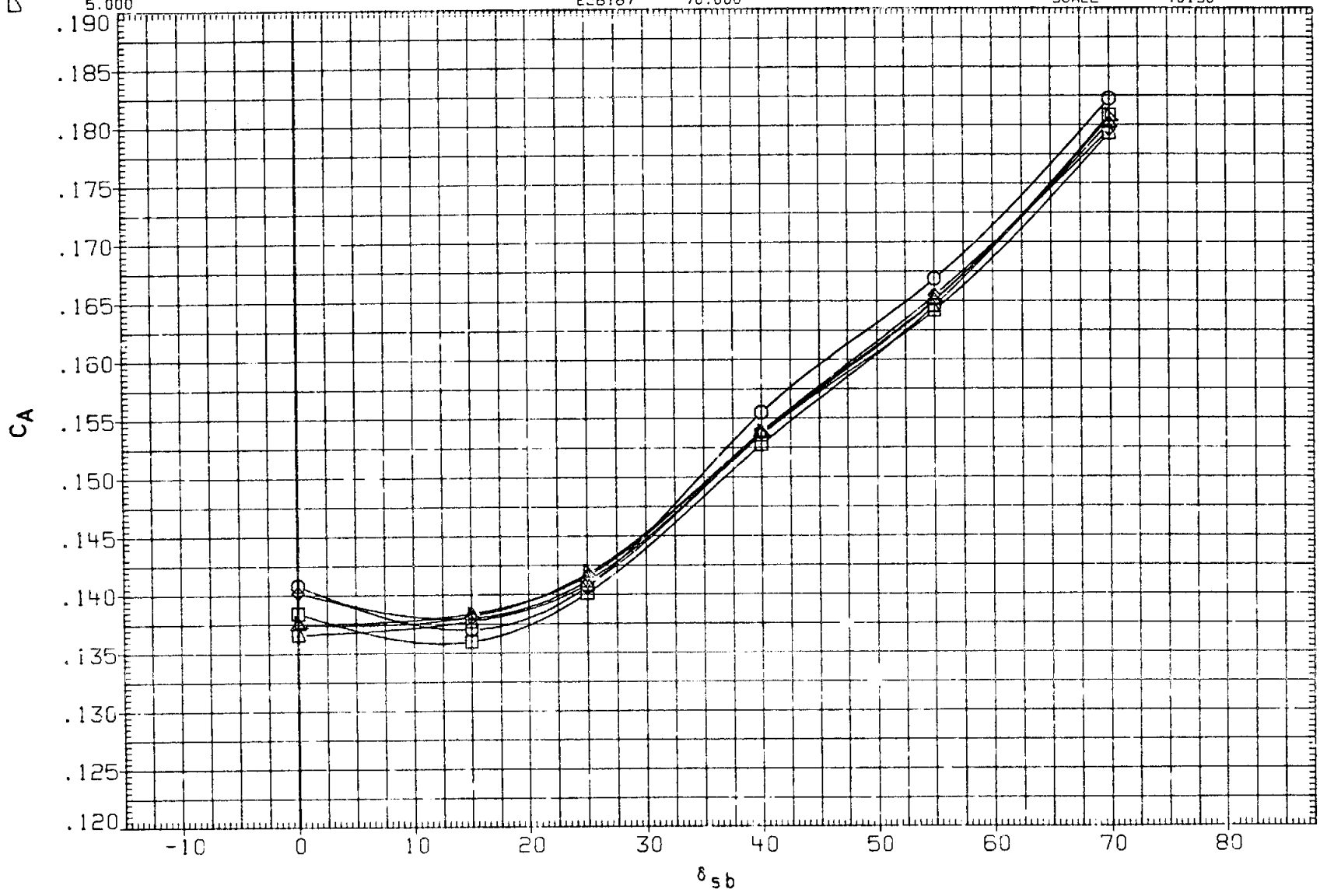

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◁	10.000	BDFLAP	.000			E28084	55.000
▷	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

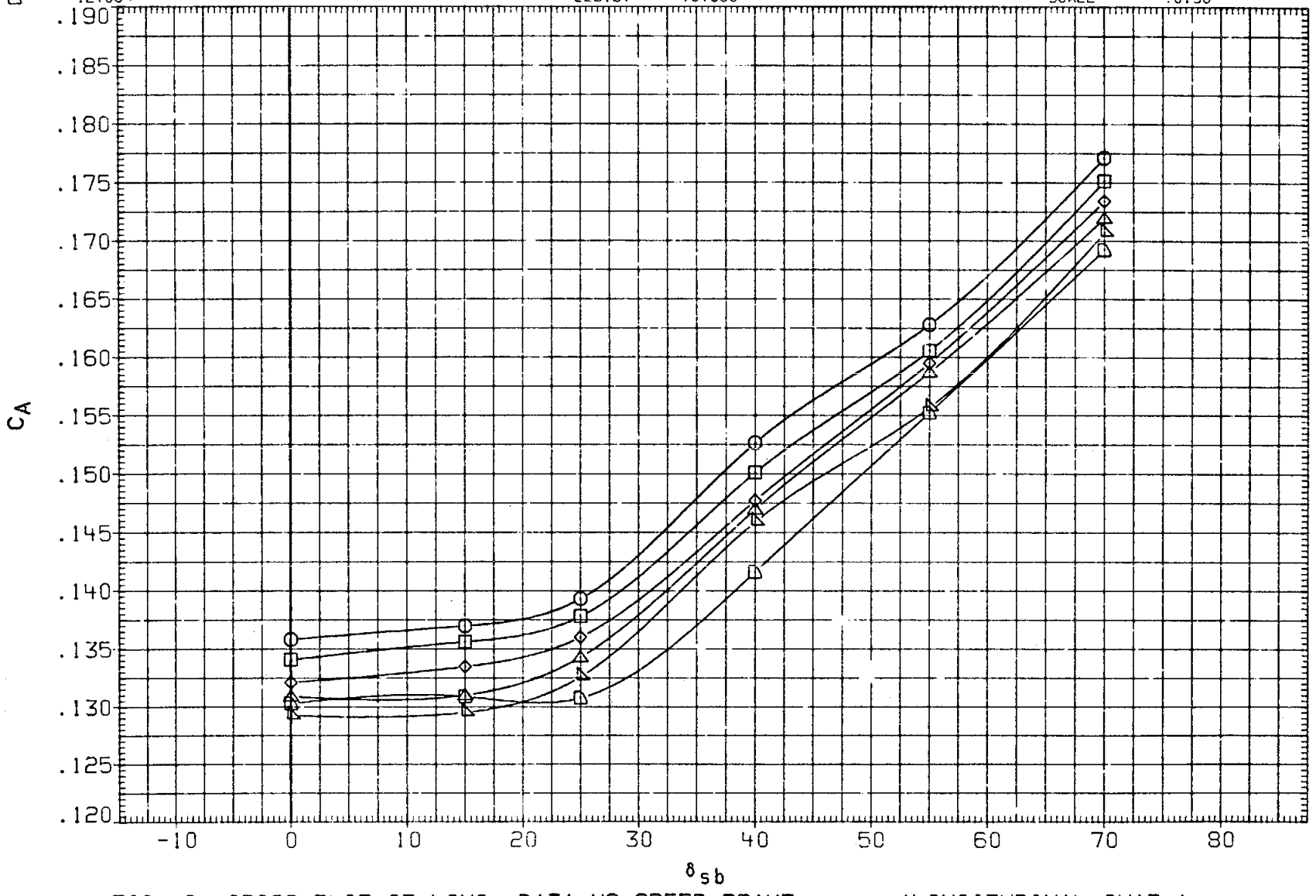

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

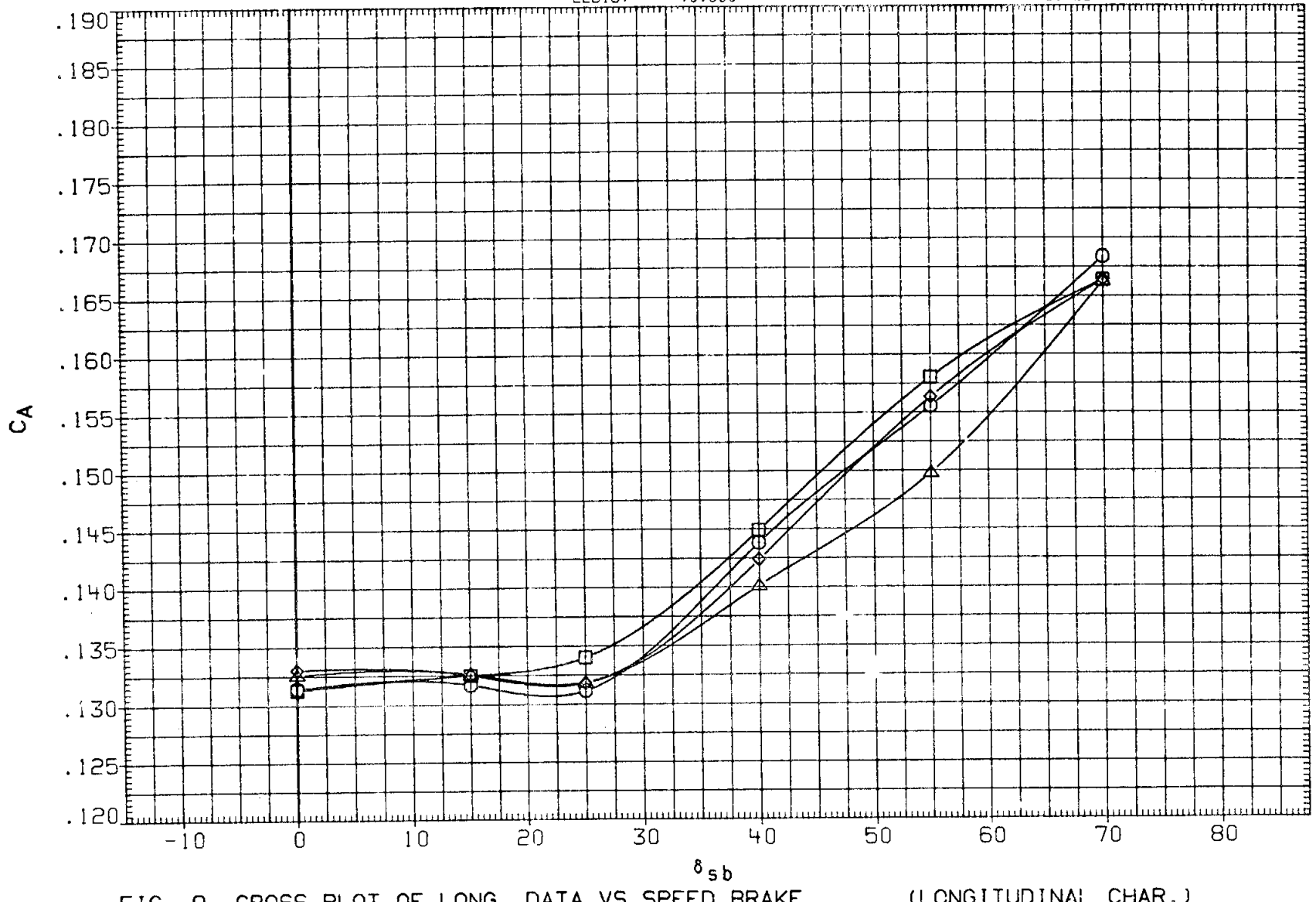

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◸	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

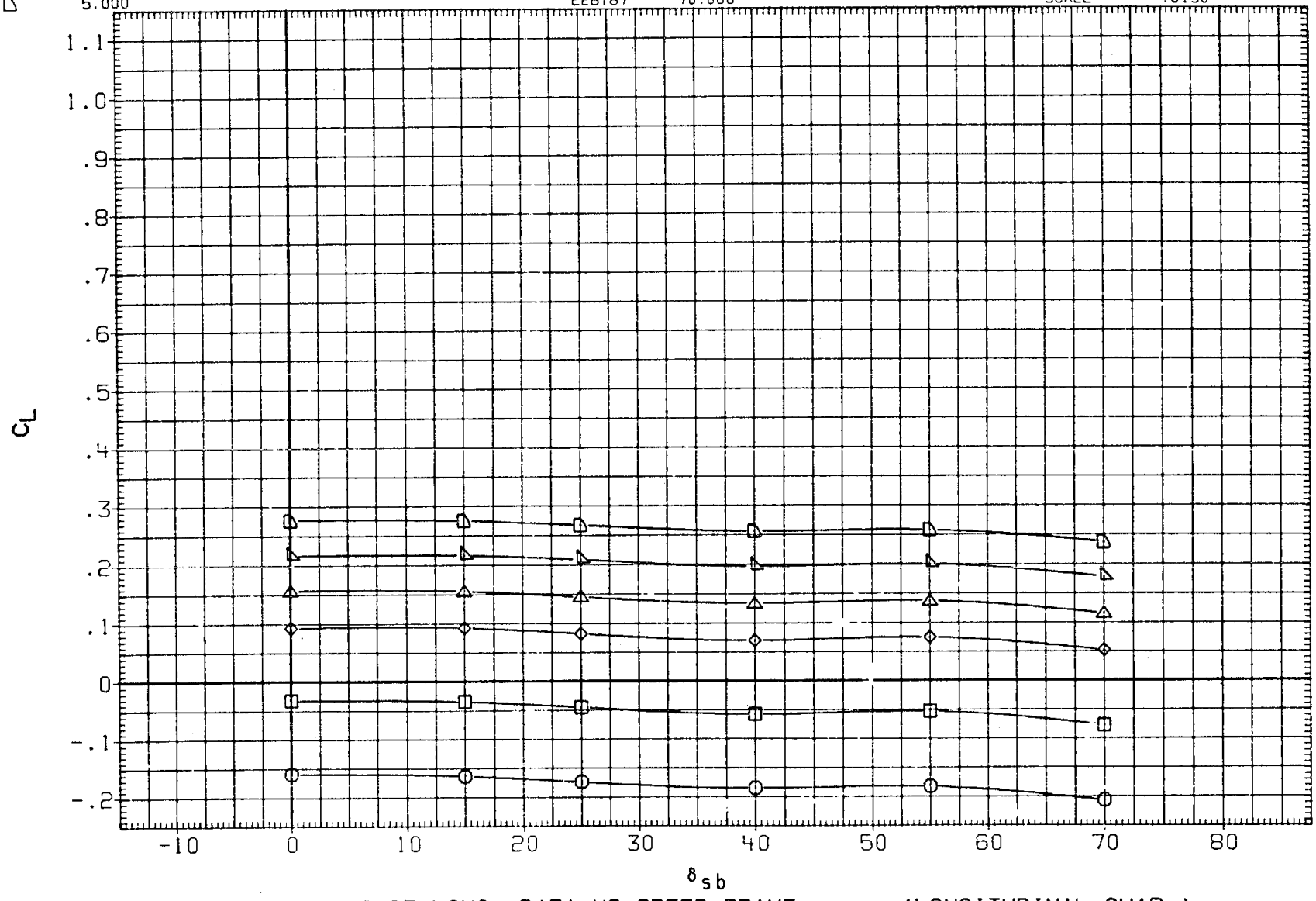

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 1!(LA77) 0V!01

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◺	10.000	BDFLAP	.000			E2B084	55.000
◺	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	47: 8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

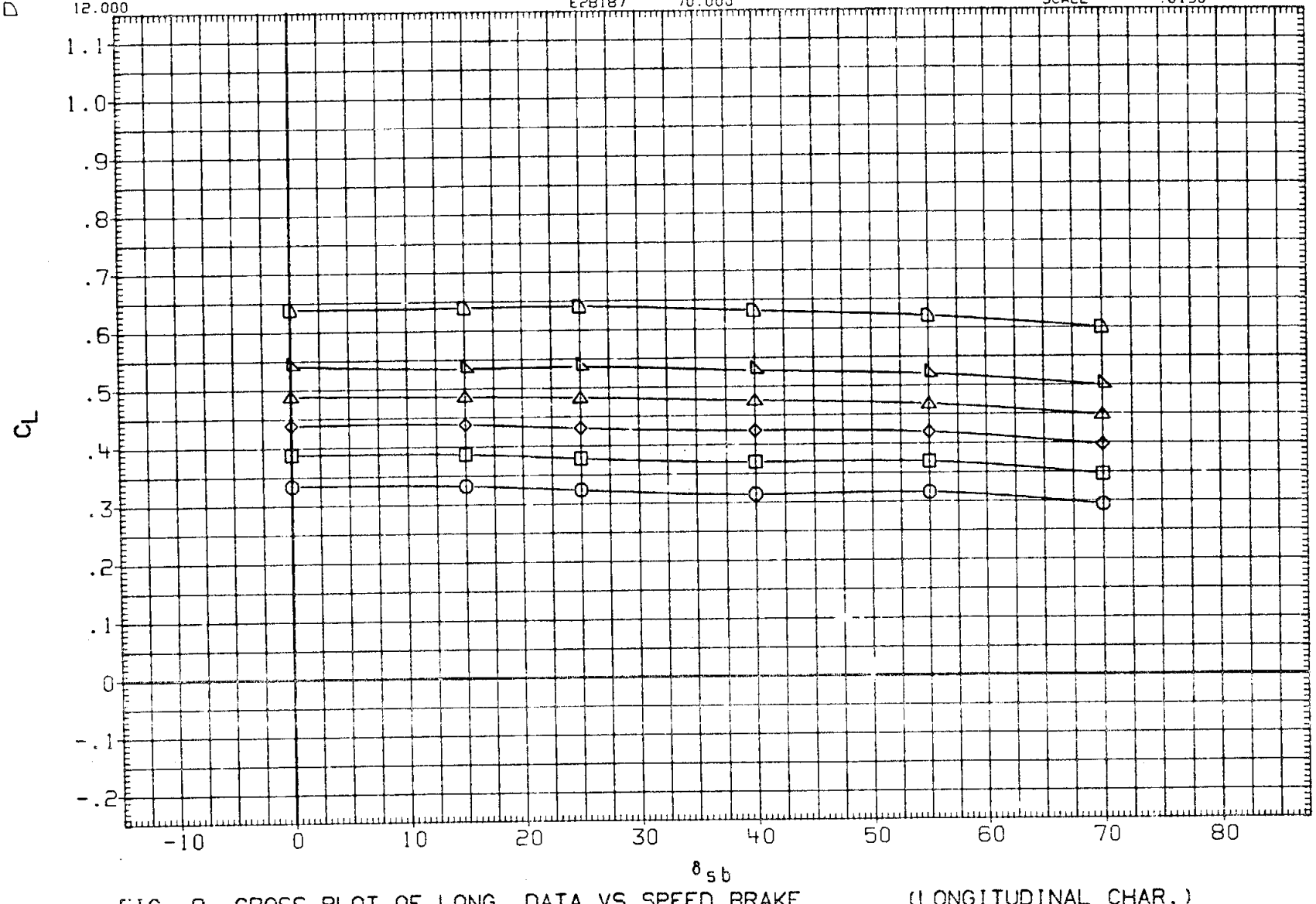

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

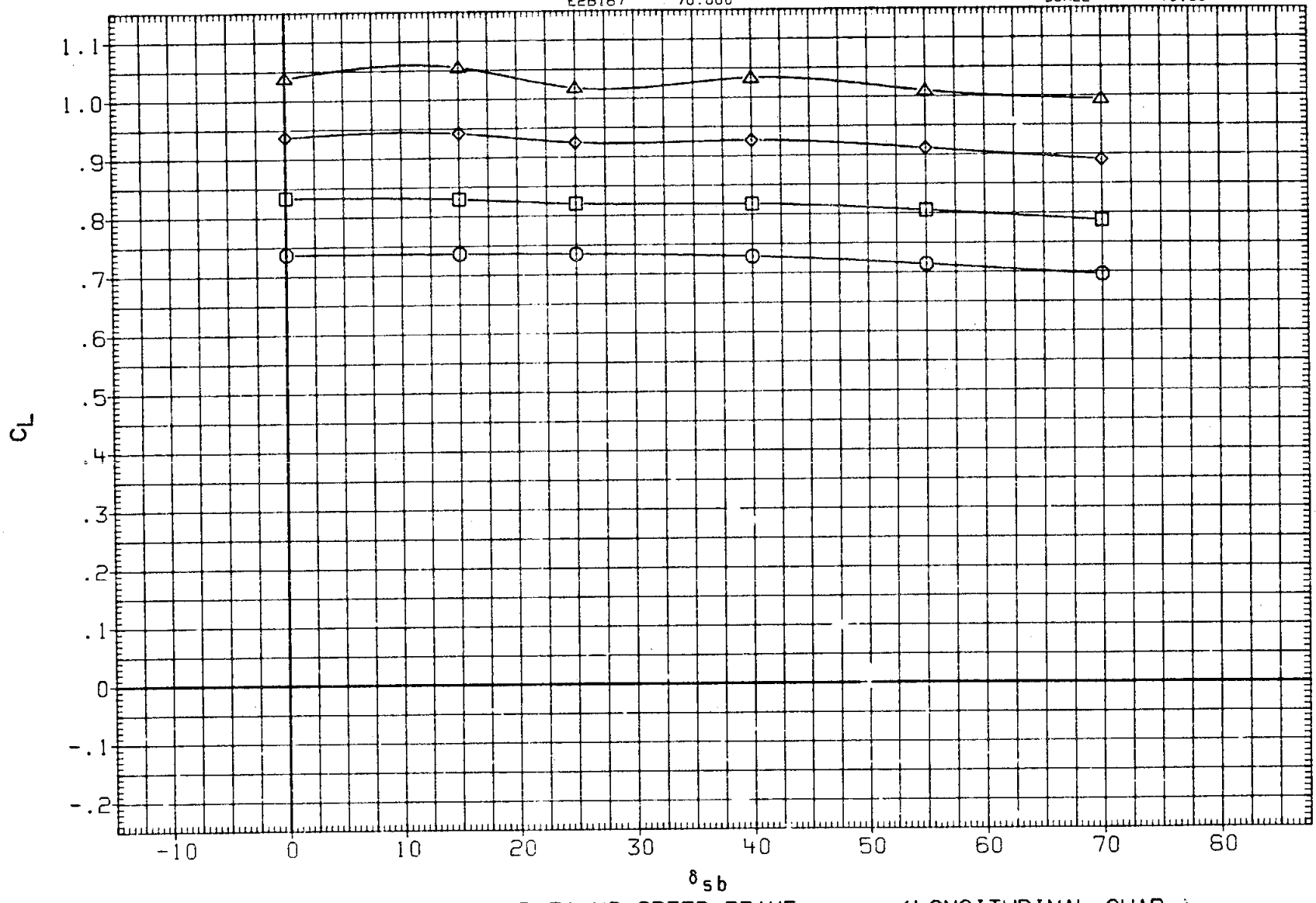

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
◁	3.000	RUDDER	.000			E2B179	40.000
◁	4.000	BDFLAP	.000			E2B084	55.000
D	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

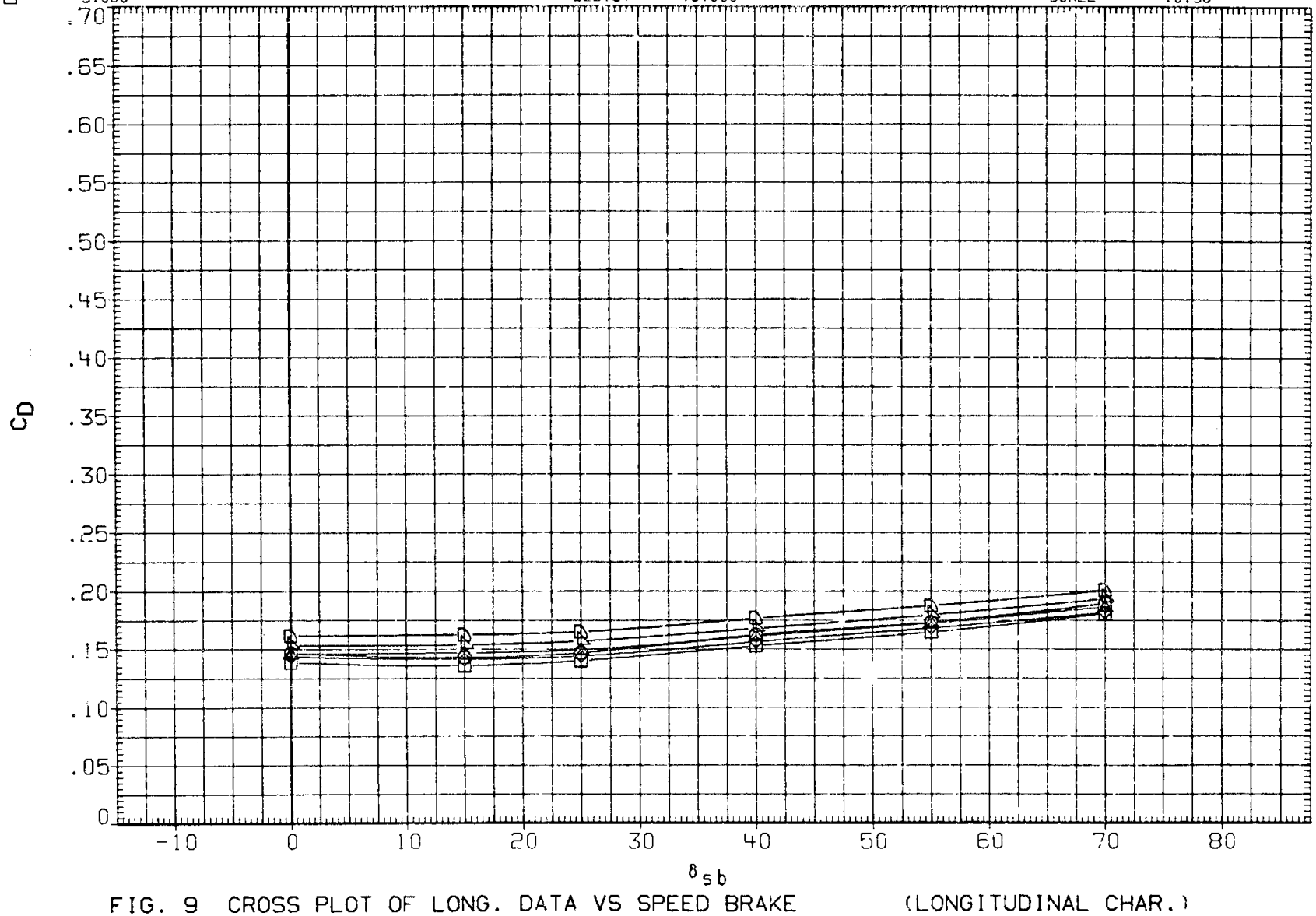

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E28108	.000
□	7.000	ELEVON	.000			E28171	15.000
◇	8.000	AILRON	.000			E28001	25.000
△	9.000	RUDDER	.000			E28179	40.000
◁	10.000	BDFLAP	.000			E28084	55.000
▷	12.000					E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

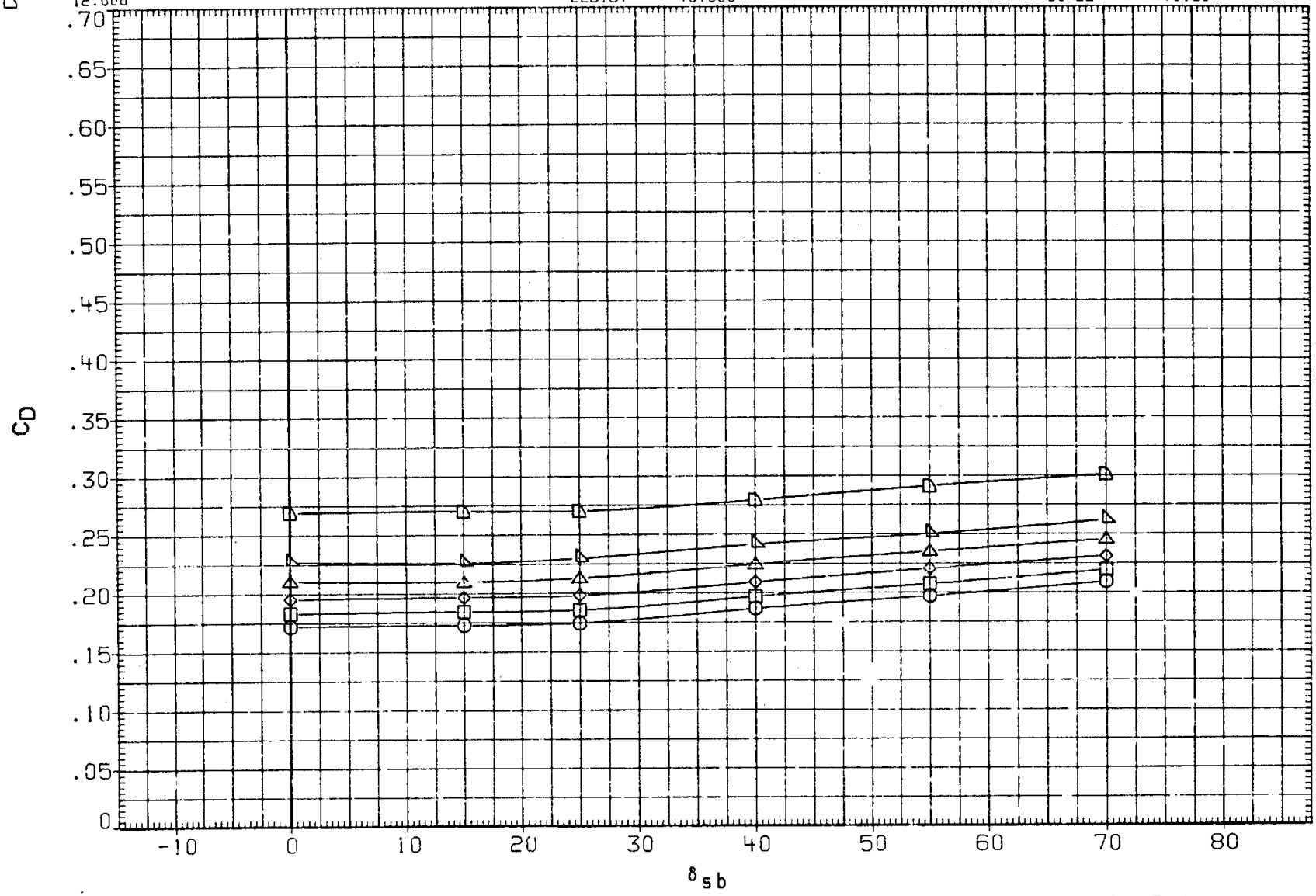

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPOBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

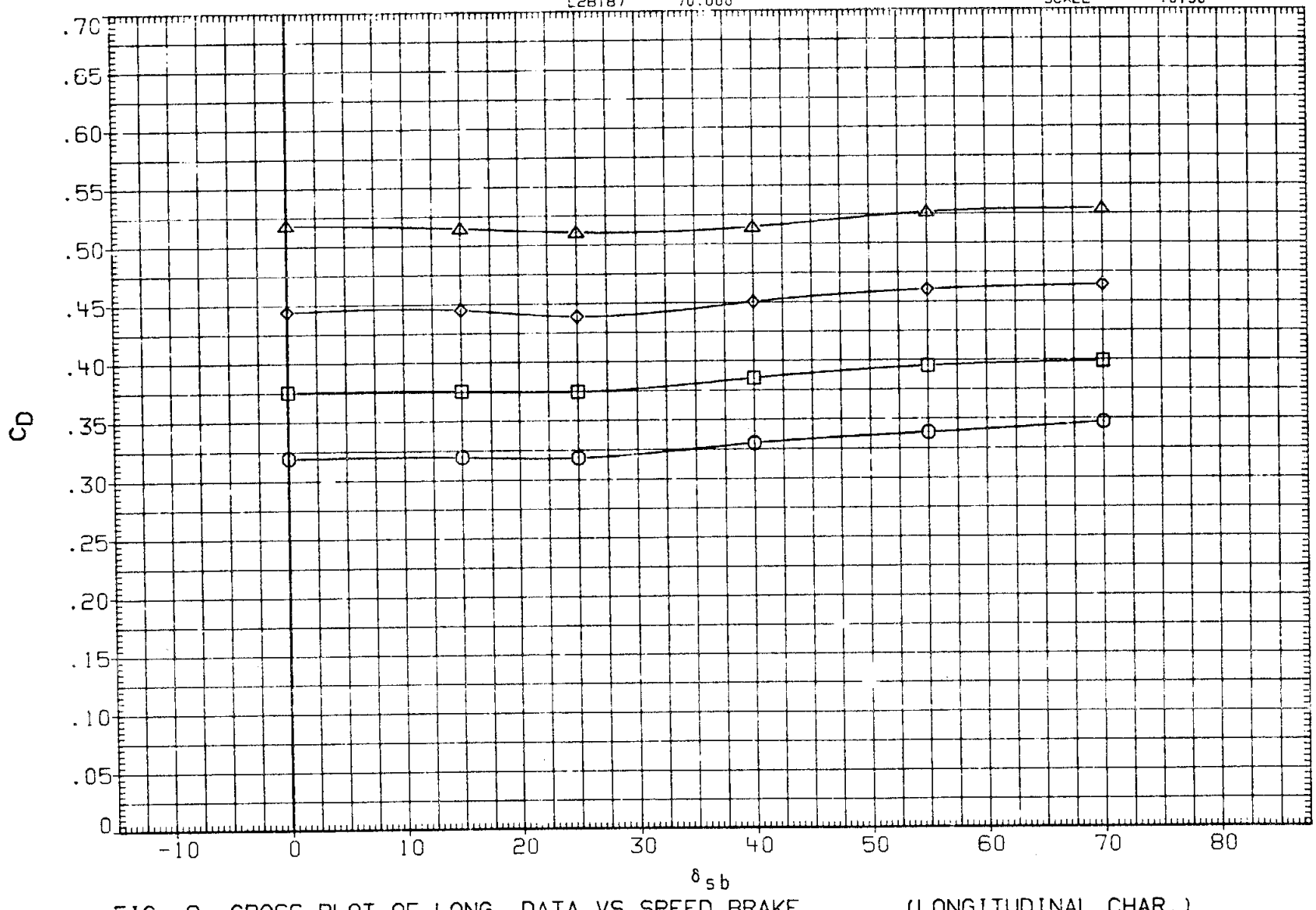

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◺	4.000	BDFLAP	.000			E2B084	55.000
◸	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

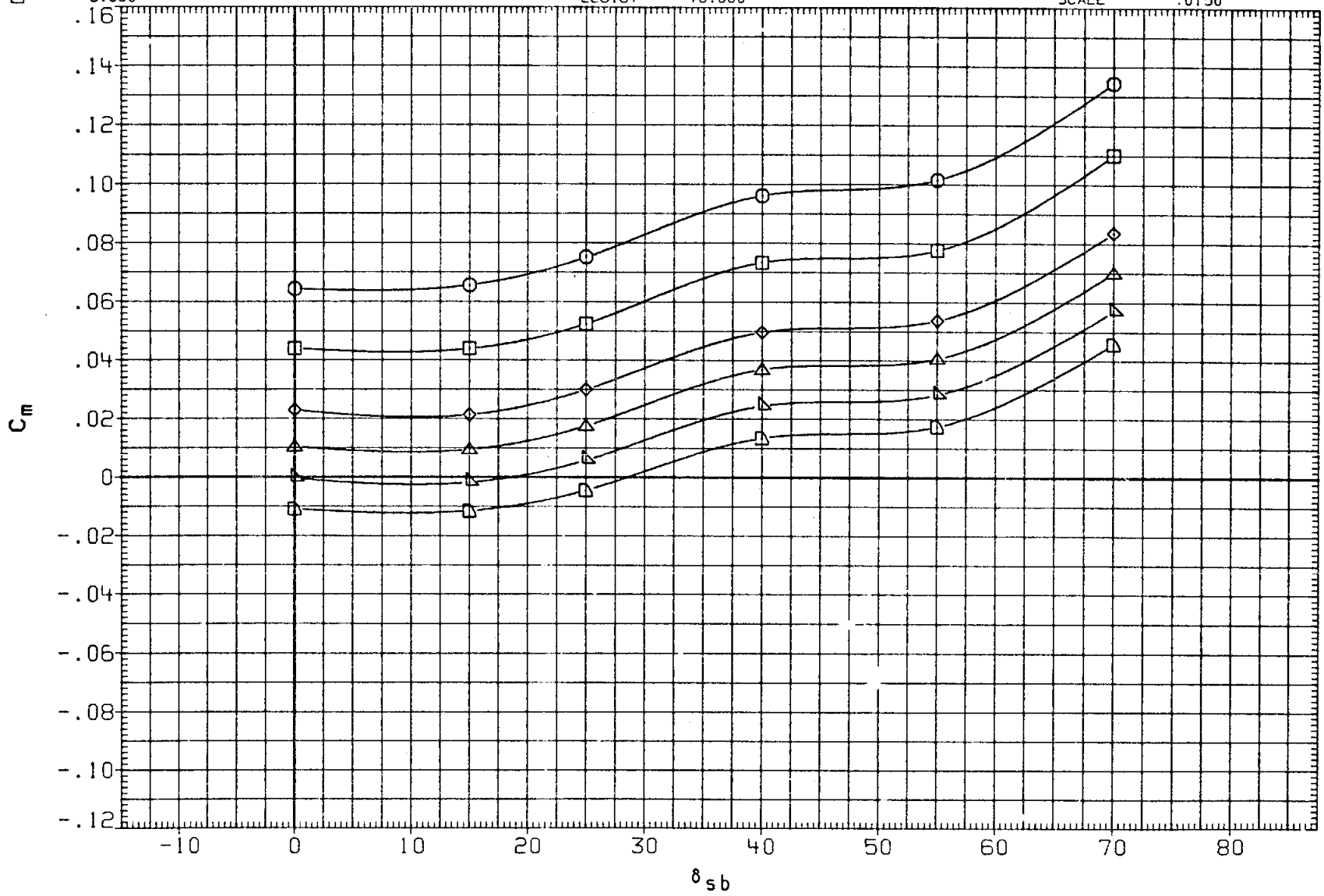

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

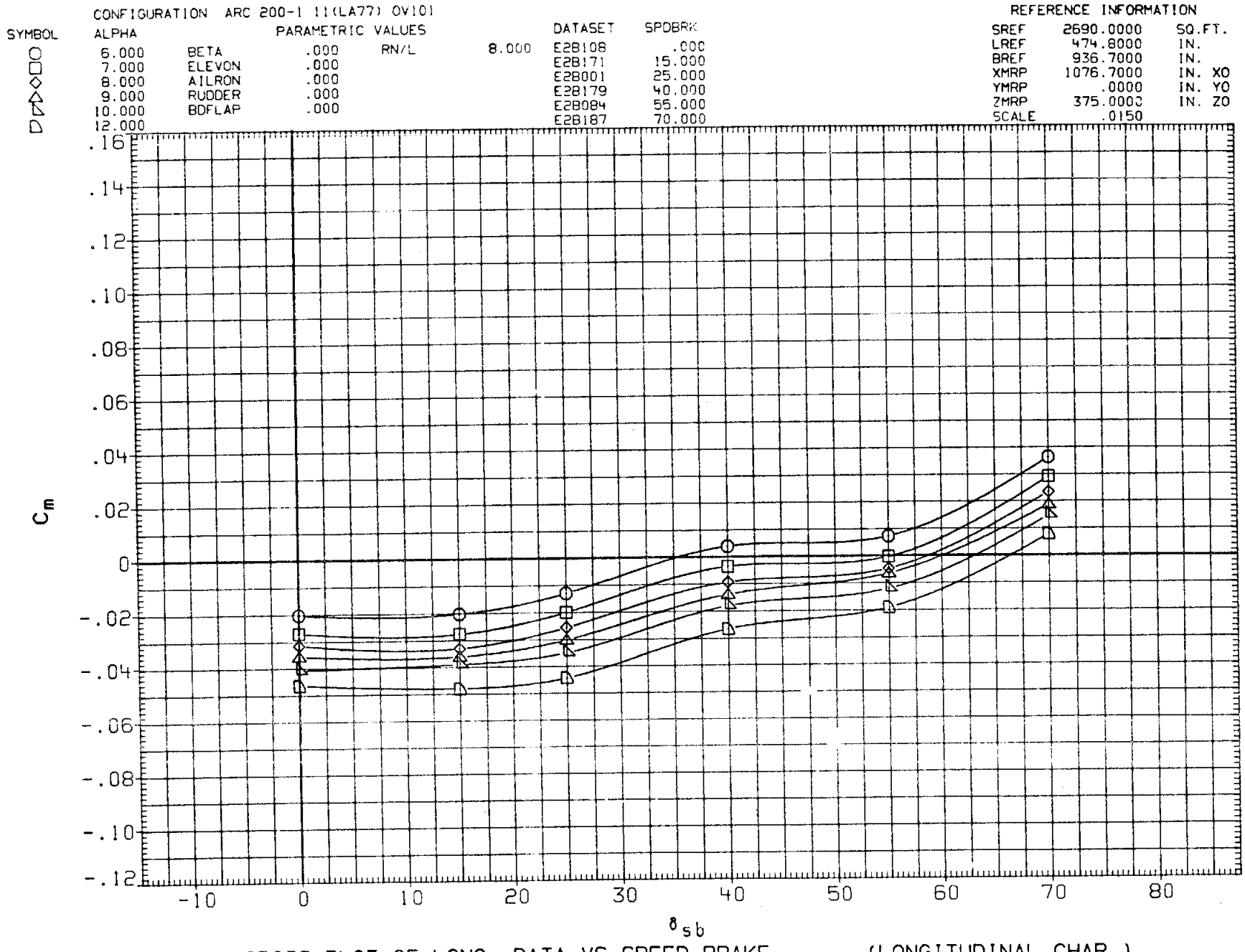

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C) MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

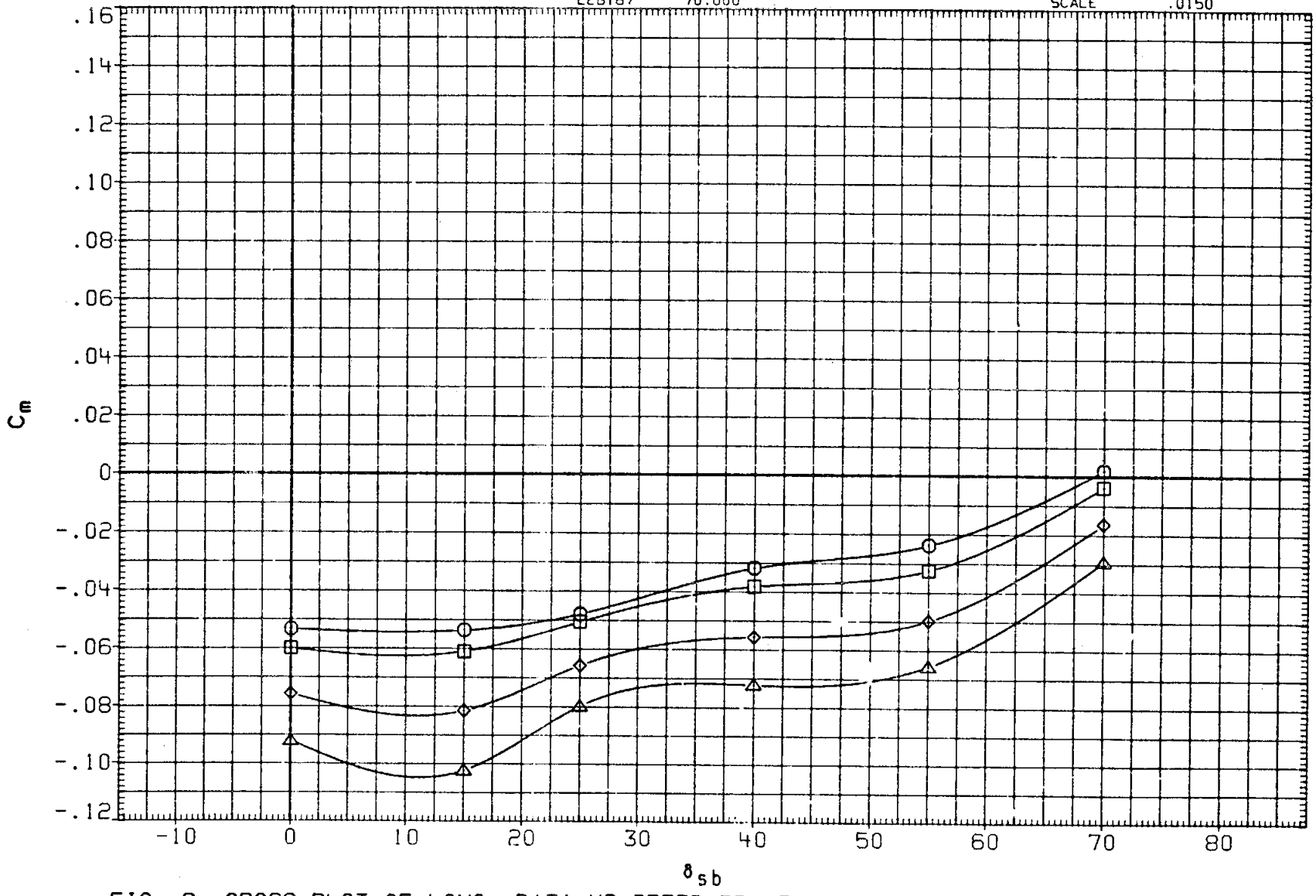

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV10!

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/L	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◁	4.000	BDFLAP	.000			E2B084	55.000
▷	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

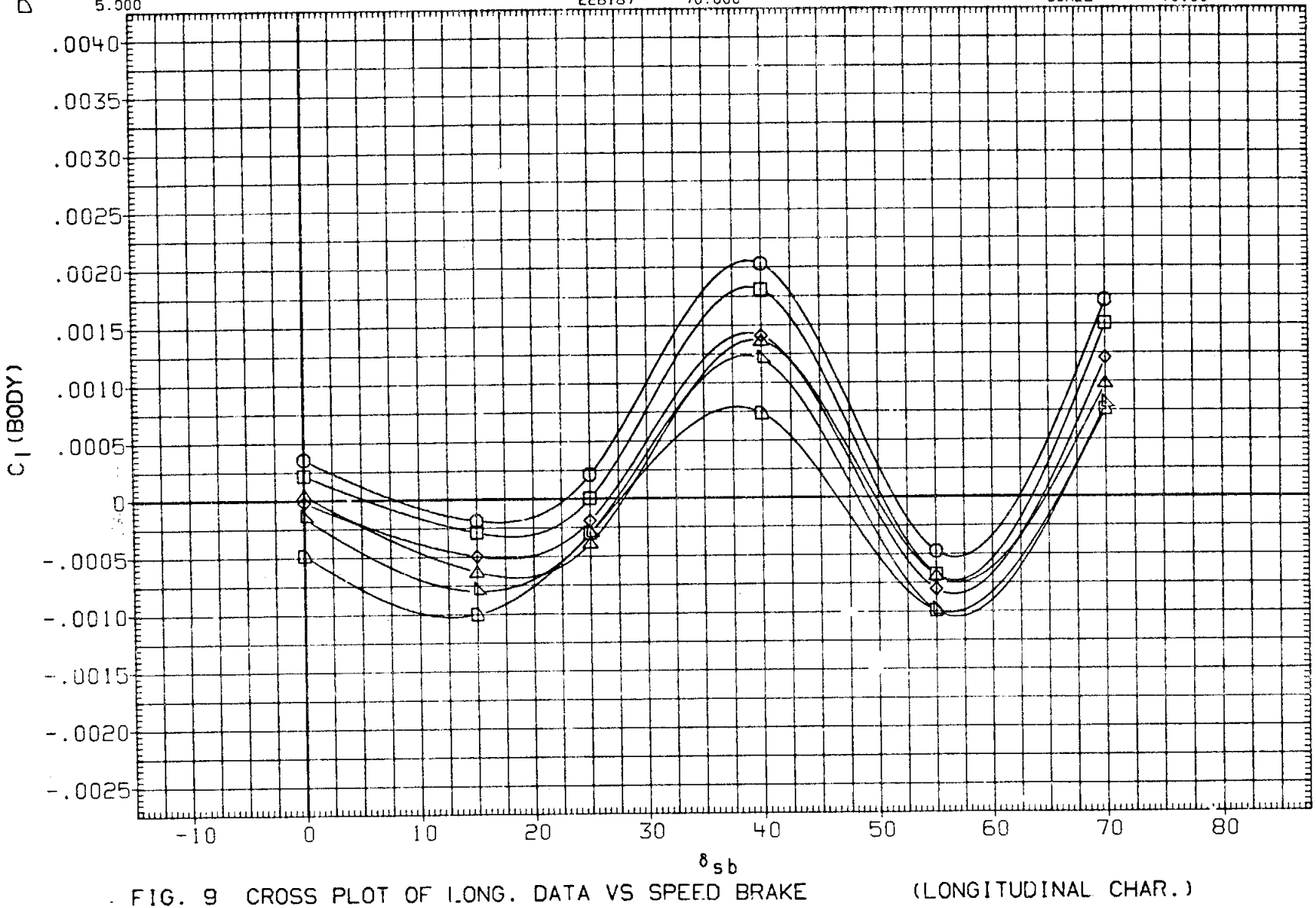

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C) MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	6.000	BETA	.000	RN/L	8.000	E2B108	.000
□	7.000	ELEVON	.000			E2B171	15.000
◇	8.000	AILRON	.000			E2B001	25.000
△	9.000	RUDDER	.000			E2B179	40.000
◁	10.000	BDFLAP	.000			E2B084	55.000
▷	12.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

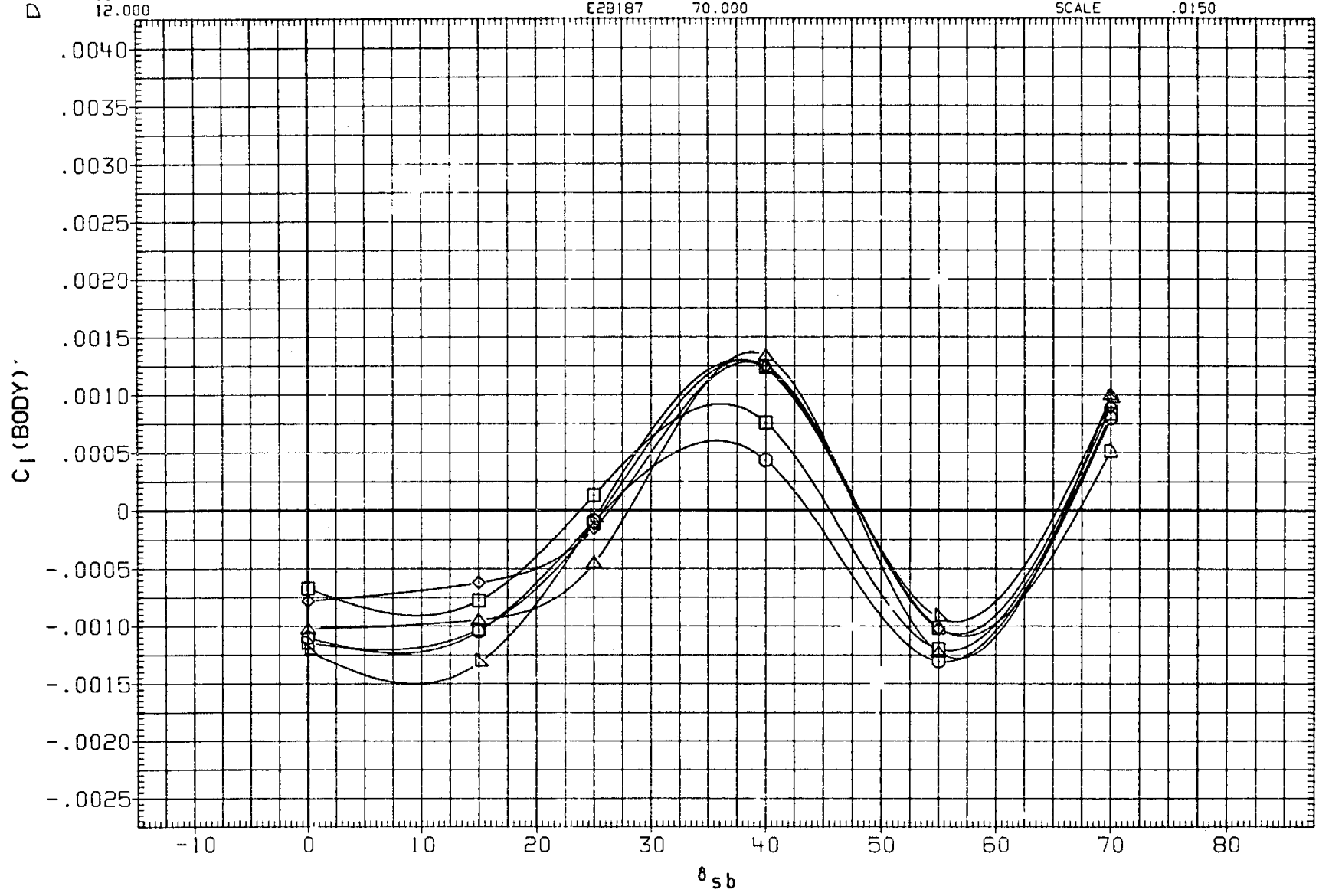

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

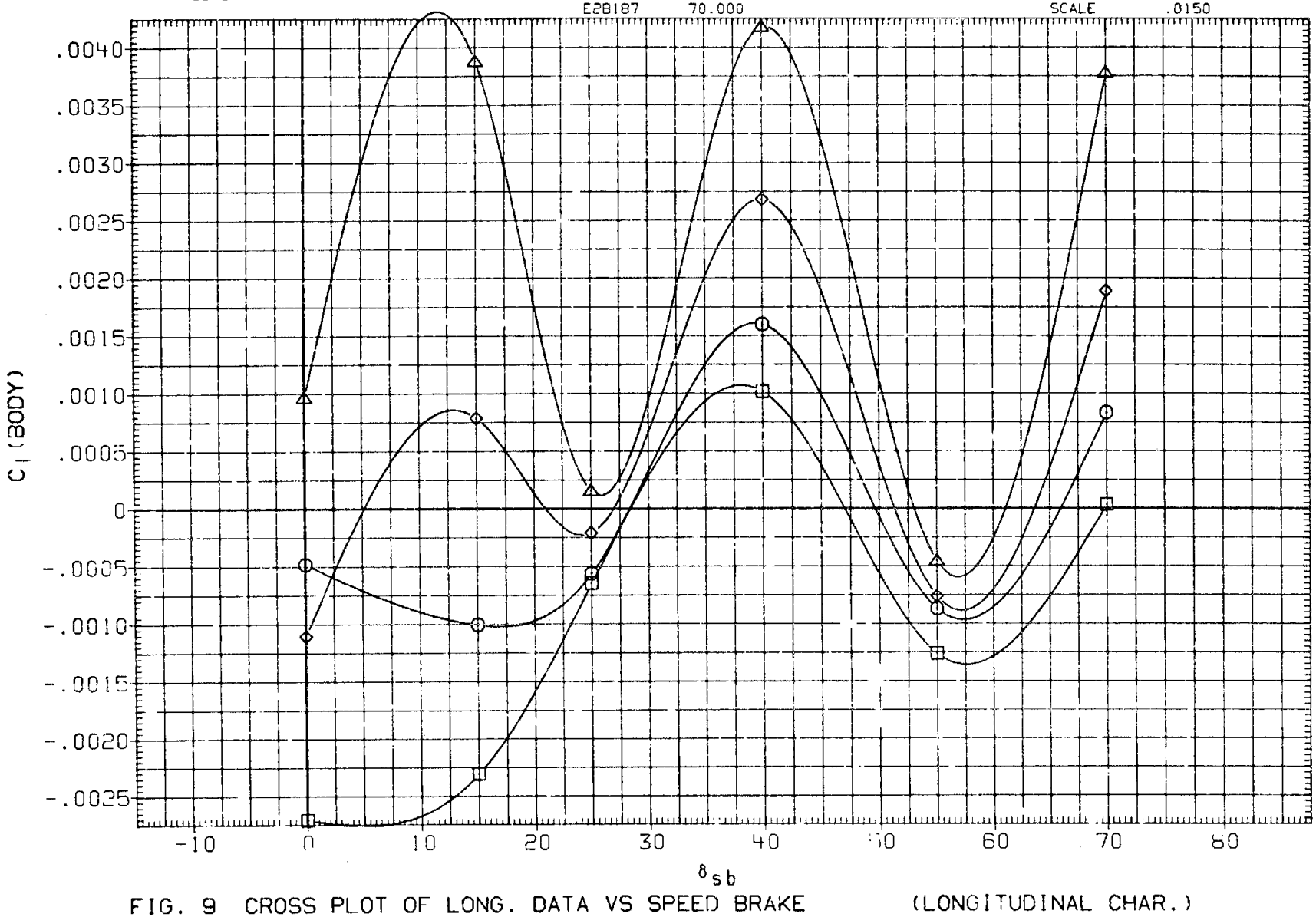

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA7) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	-2.000	BETA	.000	RN/_	8.000	E2B108	.000
□	.000	ELEVON	.000			E2B171	15.000
◇	2.000	AILRON	.000			E2B001	25.000
△	3.000	RUDDER	.000			E2B179	40.000
◁	4.000	BDFLAP	.000			E2B184	55.000
▷	5.000					E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

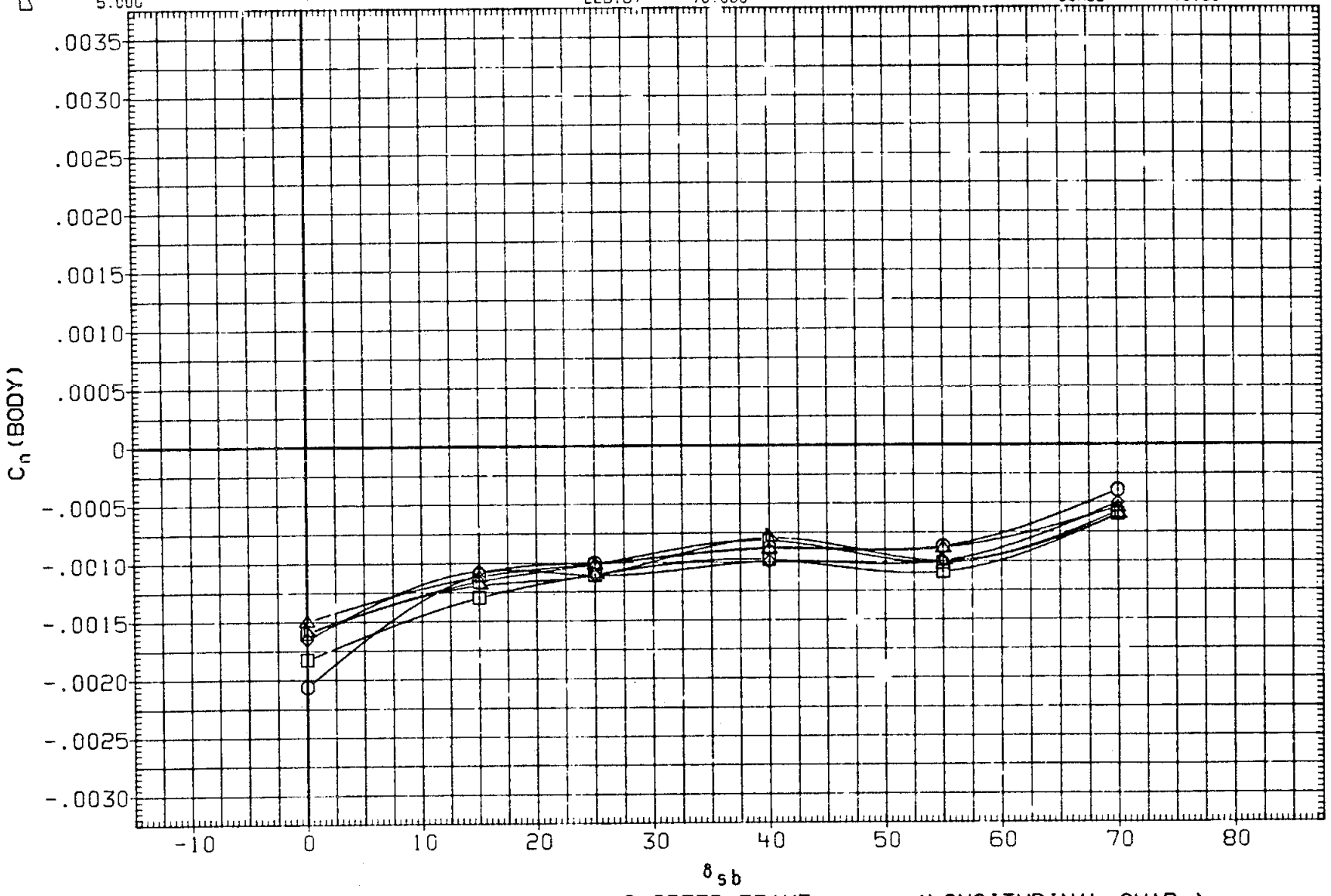

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

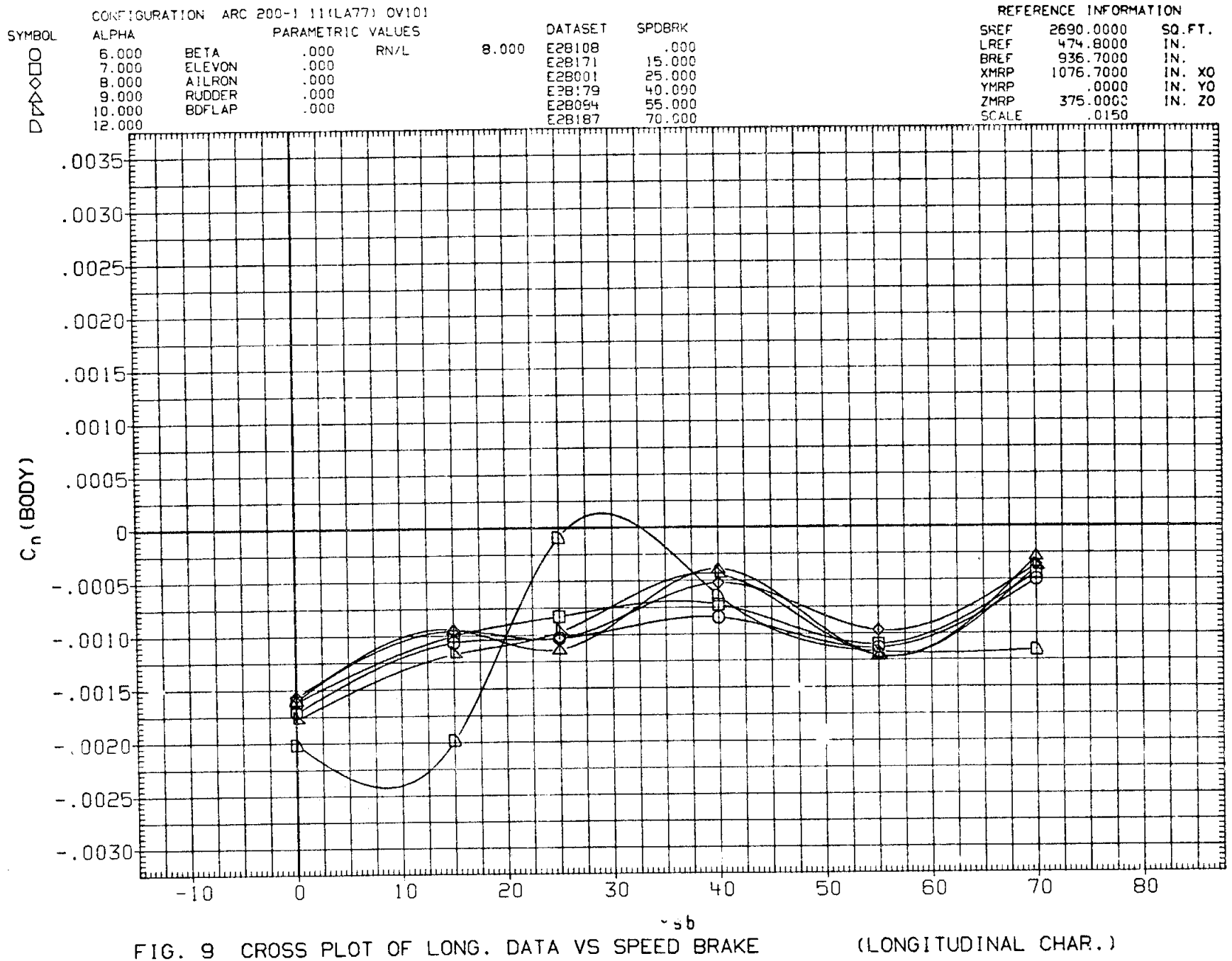

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA		PARAMETRIC VALUES			DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E2B108	.000
□	16.000	ELEVON	.000			E2B171	15.000
◇	18.000	AILRON	.000			E2B001	25.000
△	20.000	RUDDER	.000			E2B179	40.000
		BDFLAP	.000			E2B084	55.000
						E2B187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

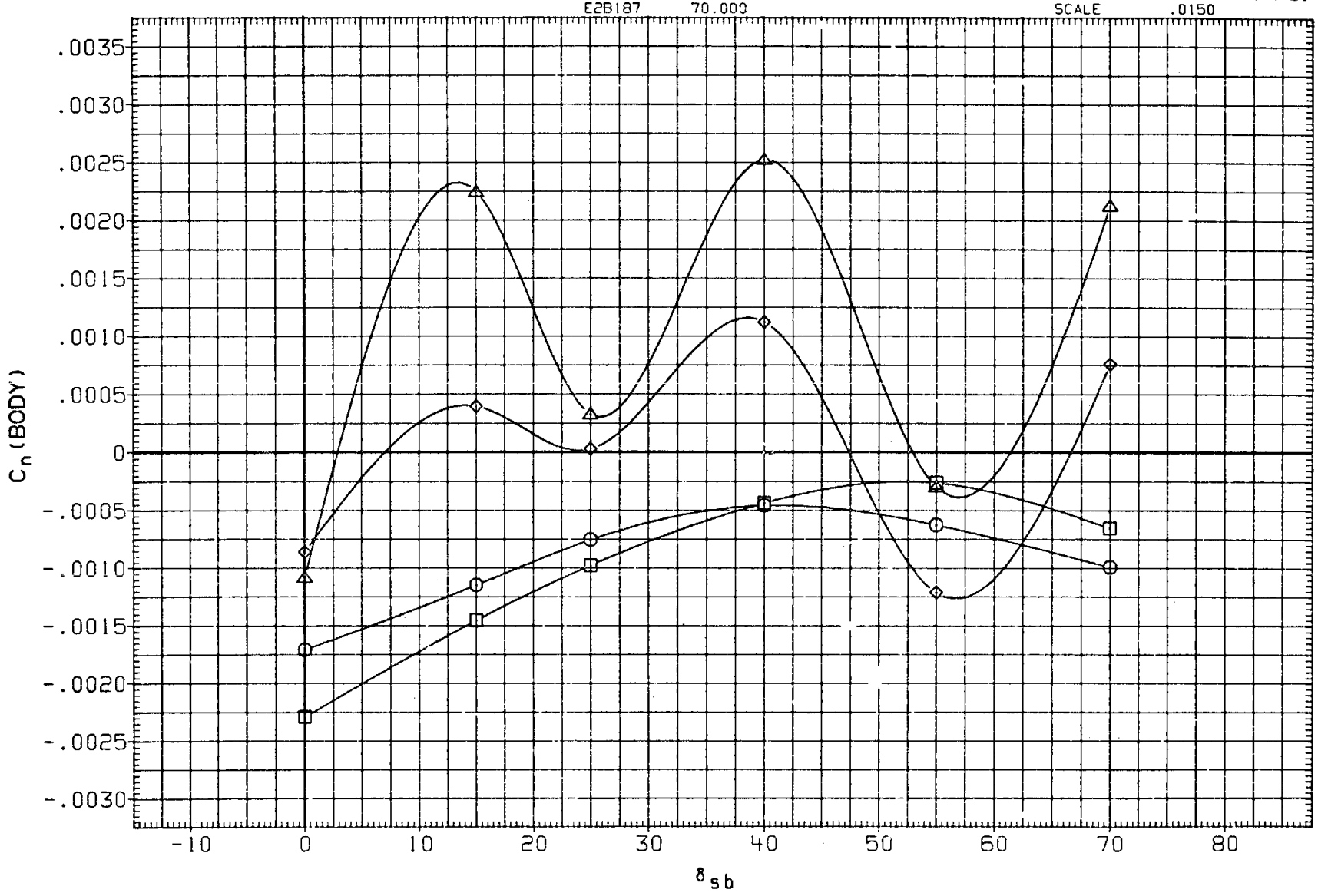

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

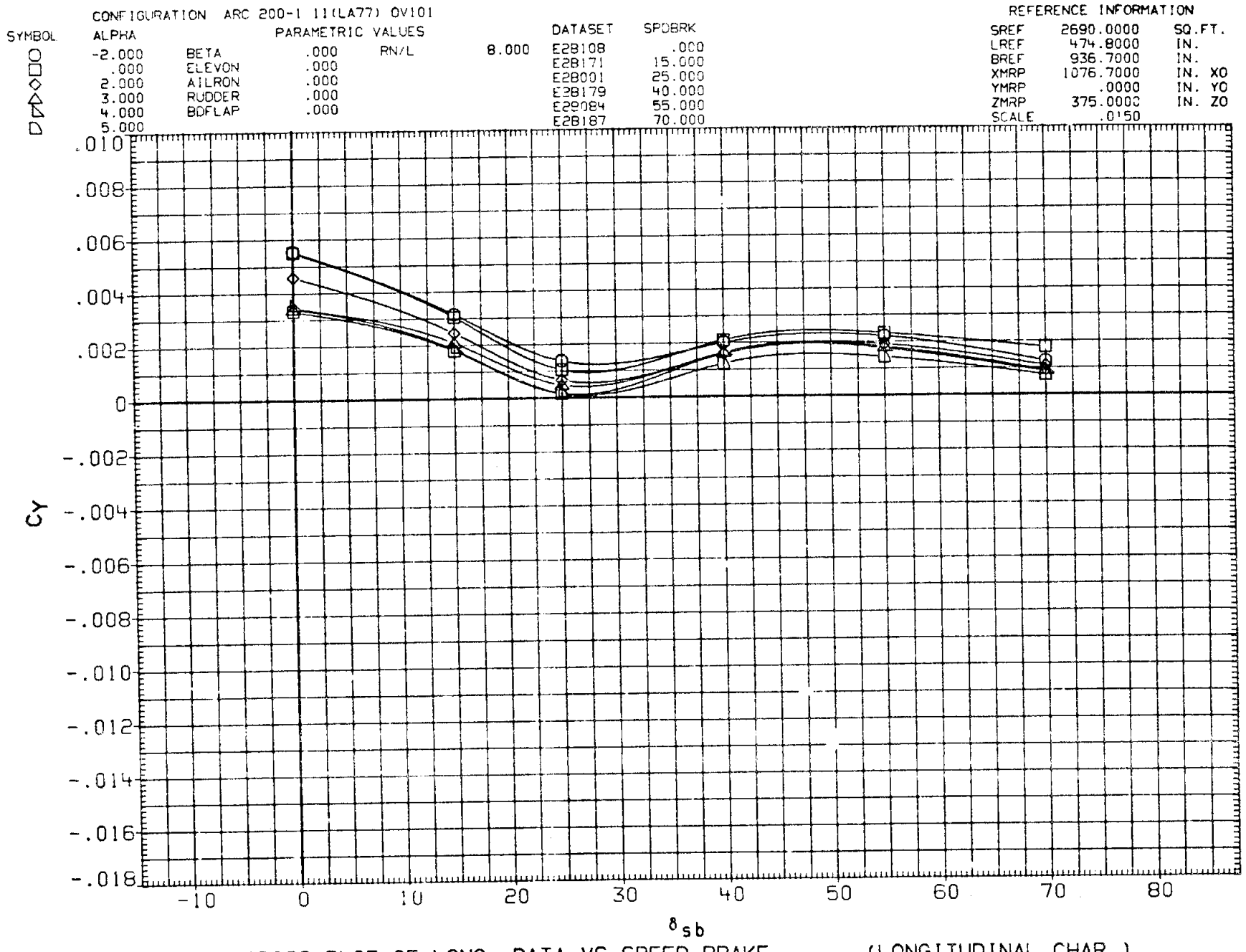

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

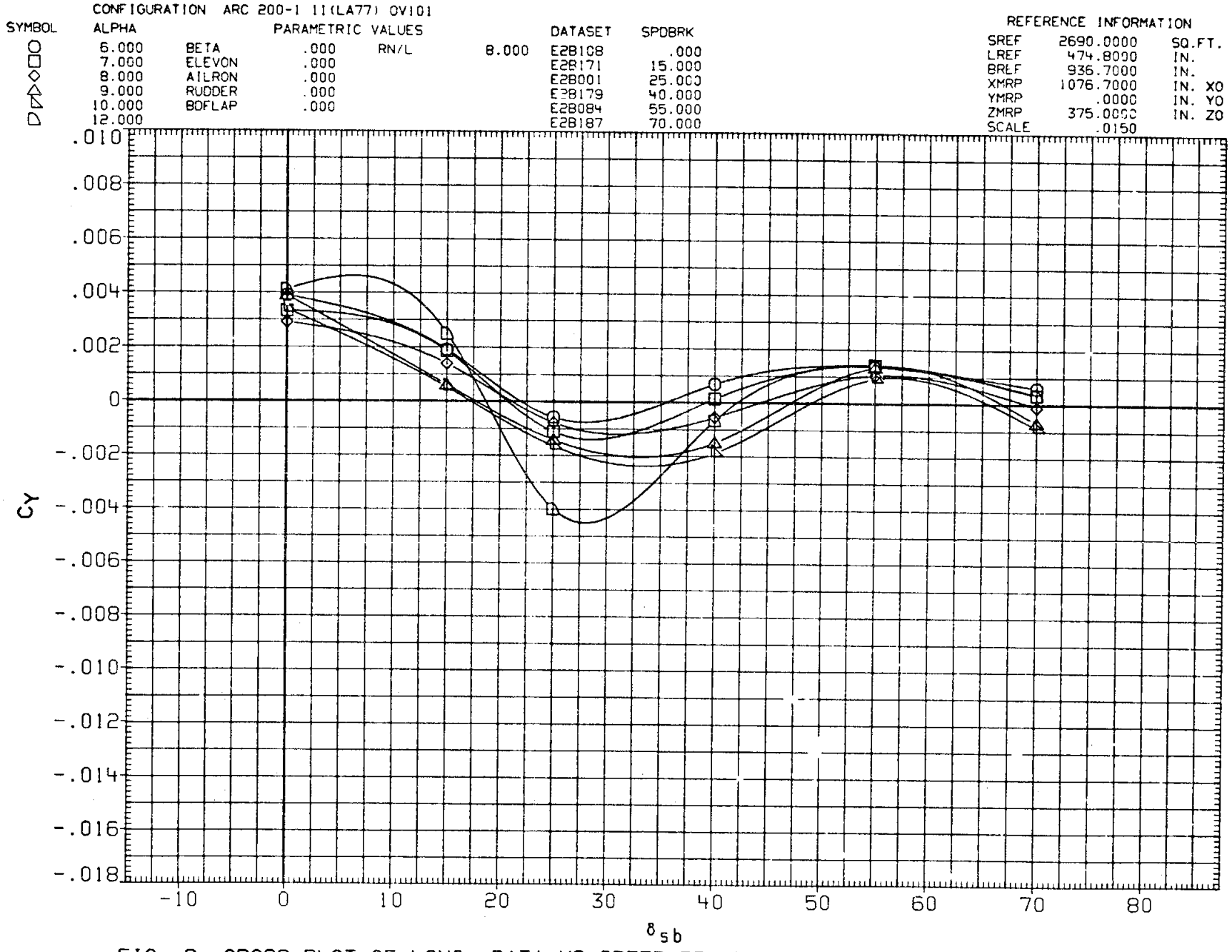

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES				DATASET	SPDBRK
○	14.000	BETA	.000	RN/L	8.000	E28108	.000
□	16.000	ELEVON	.000			E28171	15.000
◇	18.000	AILRON	.000			E28001	25.000
△	20.000	RUDDER	.000			E28179	40.000
		BDFLAP	.000			E28084	55.000
						E28187	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

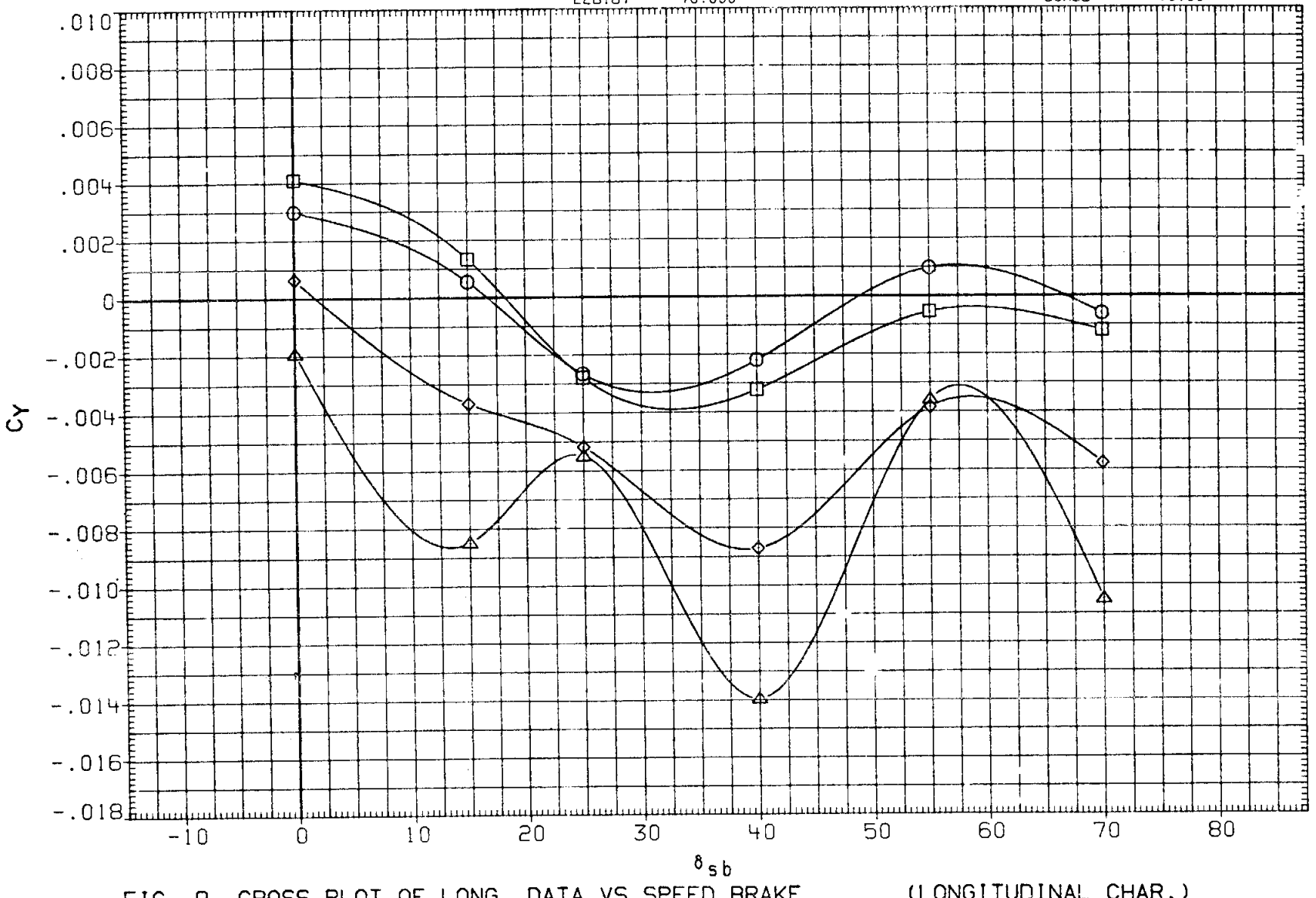

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(C)MACH = 1.05

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	-2.000	BETA	.000	F28103	.000
□	.000	ELEVON	.000	F28168	15.000
◇	2.000	AILRON	.000	F28001	25.000
◁	4.000	RUDDER	.000	F28176	40.000
▷	6.000	BDFLAP	.000	F28080	55.000
△	8.000			F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

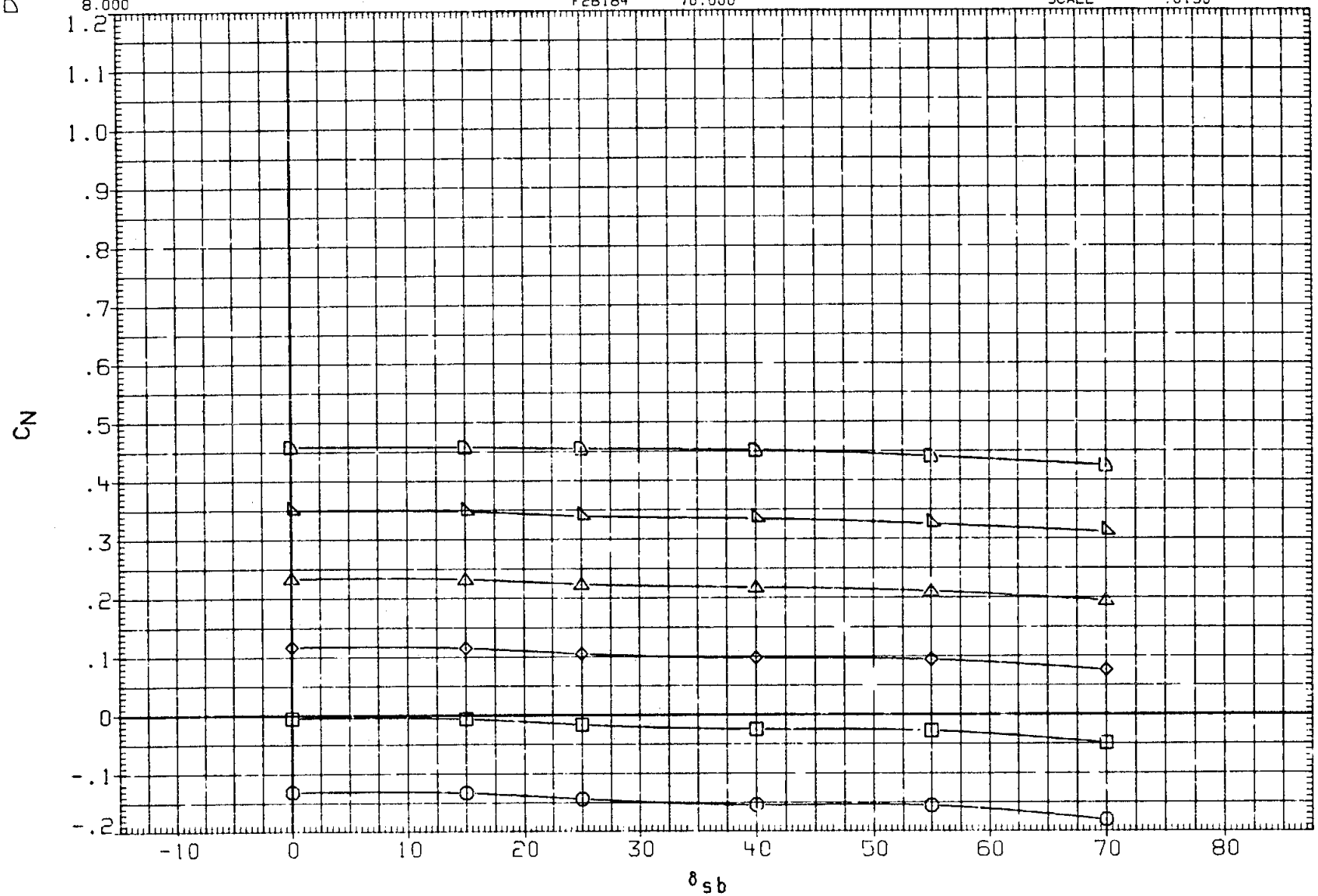

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

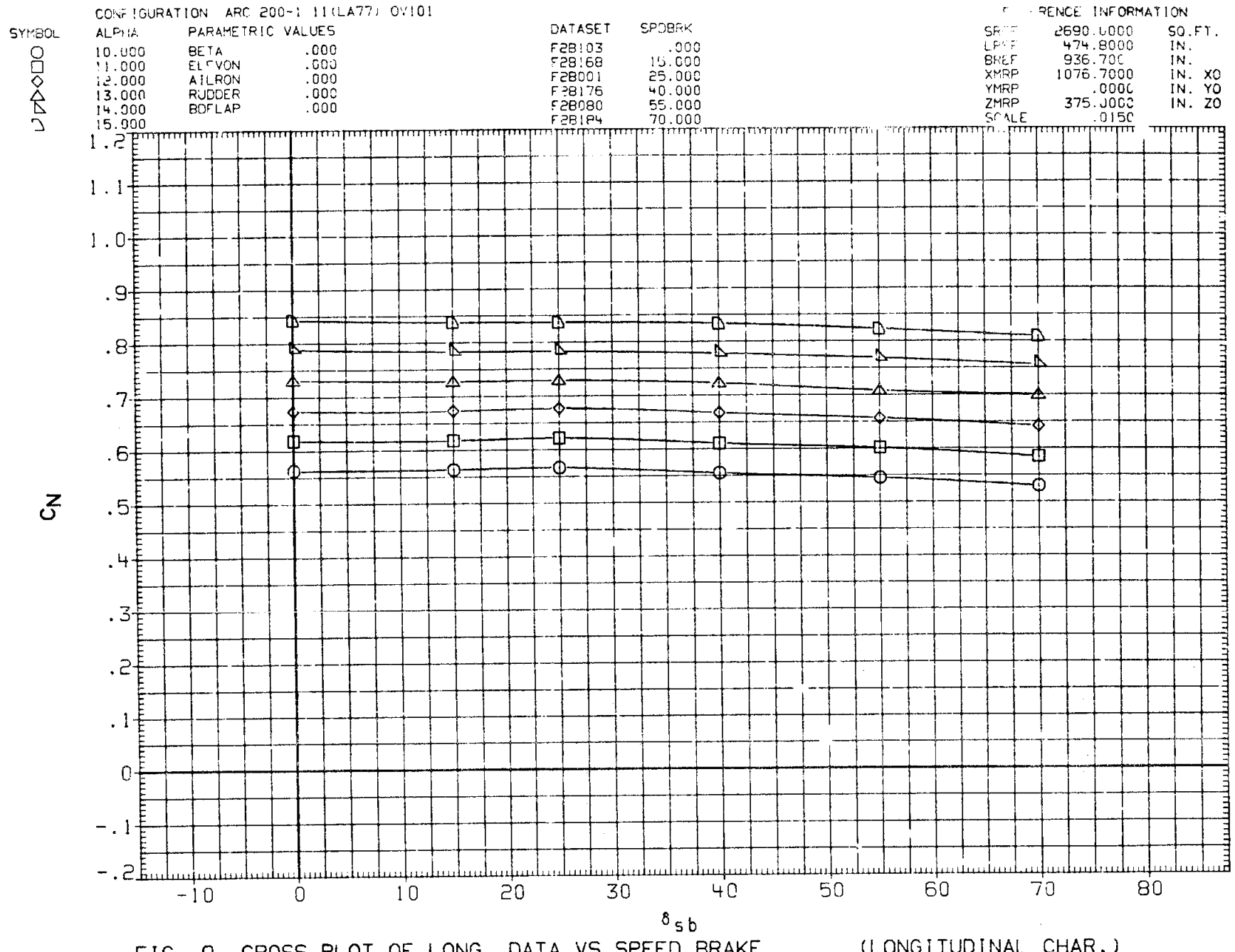

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	16.000	BETA	.000	F28103	.000
□	18.000	ELEVON	.000	F28168	15.000
◇	20.000	AILRON	.000	F28001	25.000
		RUDDER	.000	F28176	40.000
		BDFLAP	.000	F28080	55.000
				F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

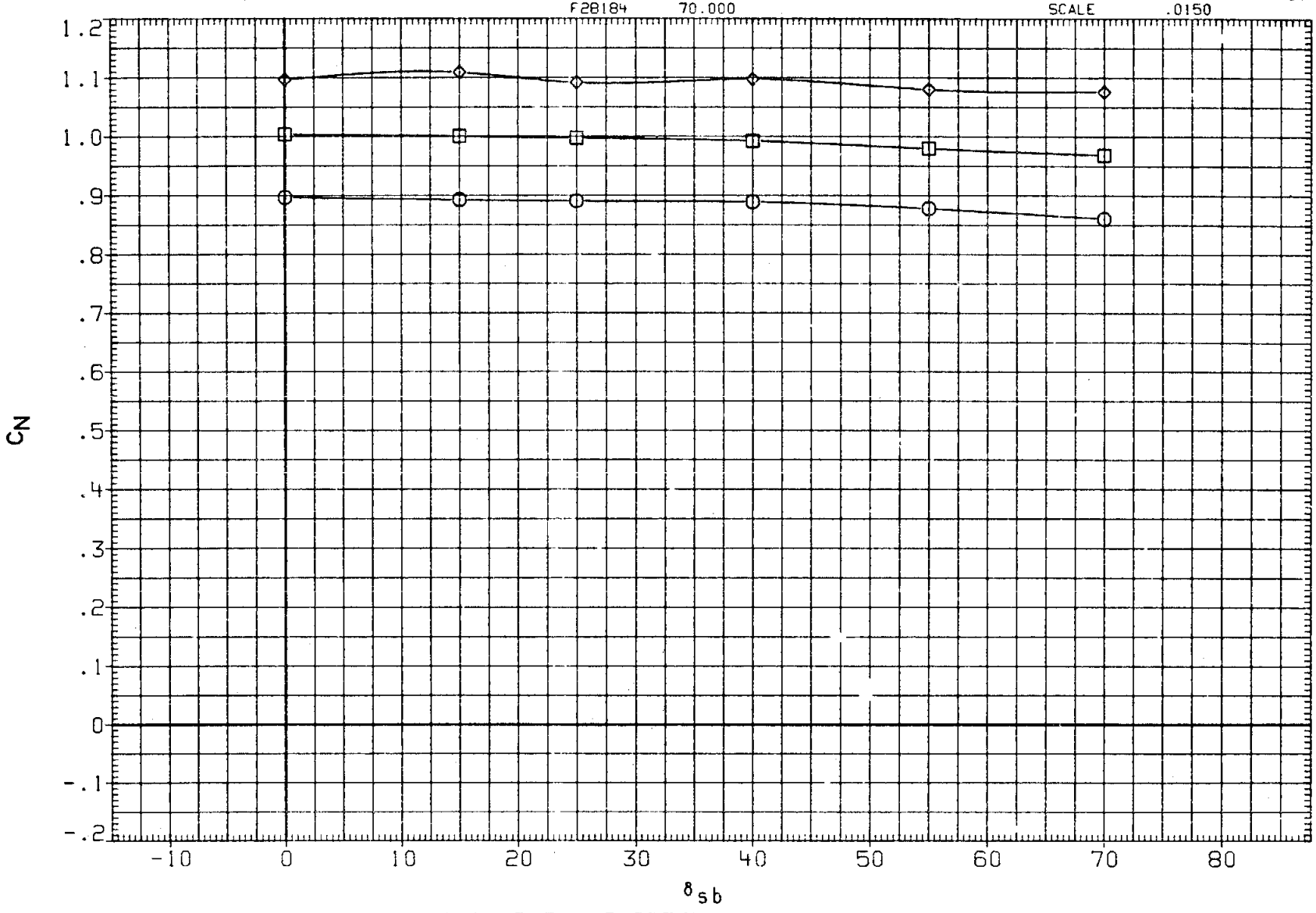

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

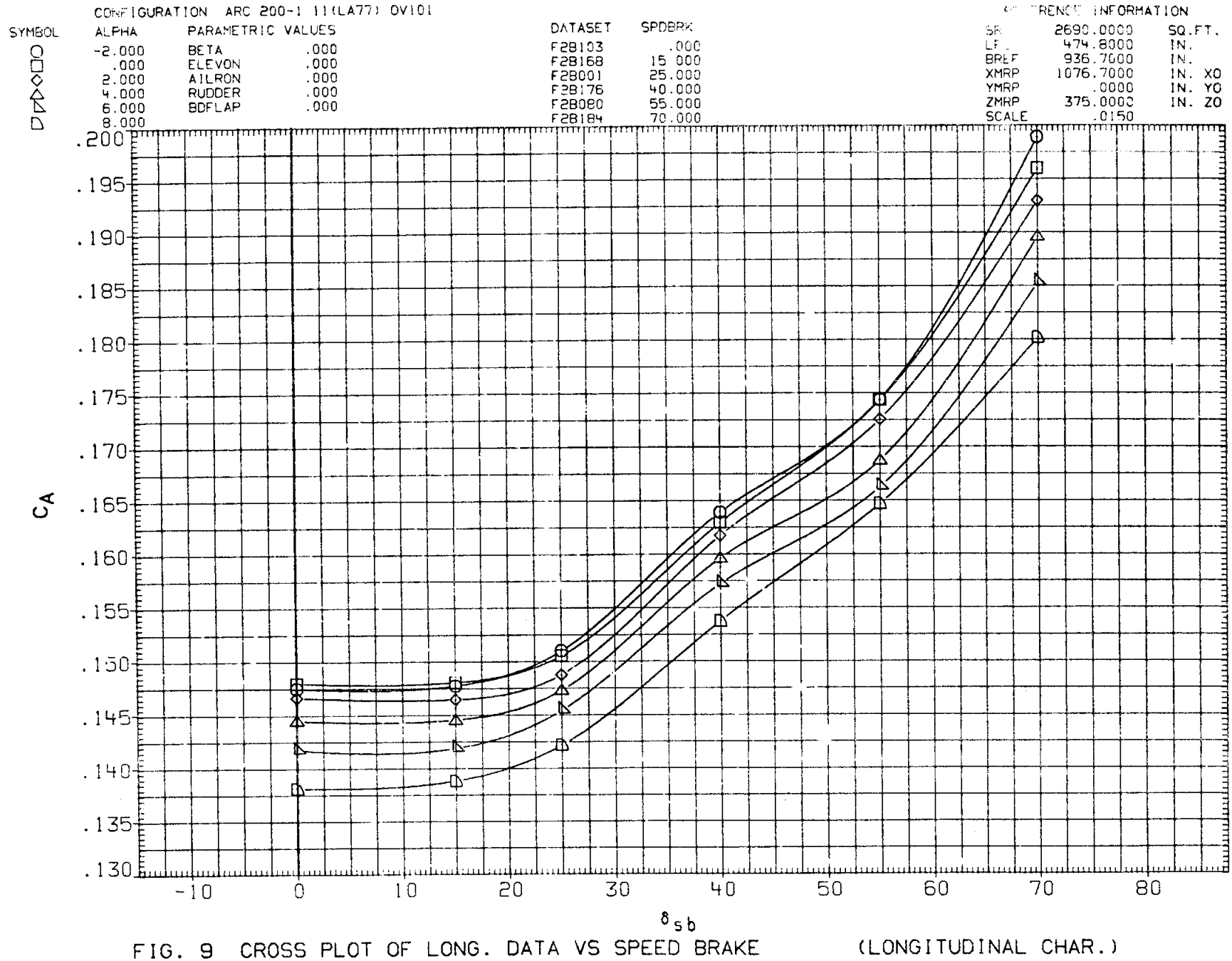

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

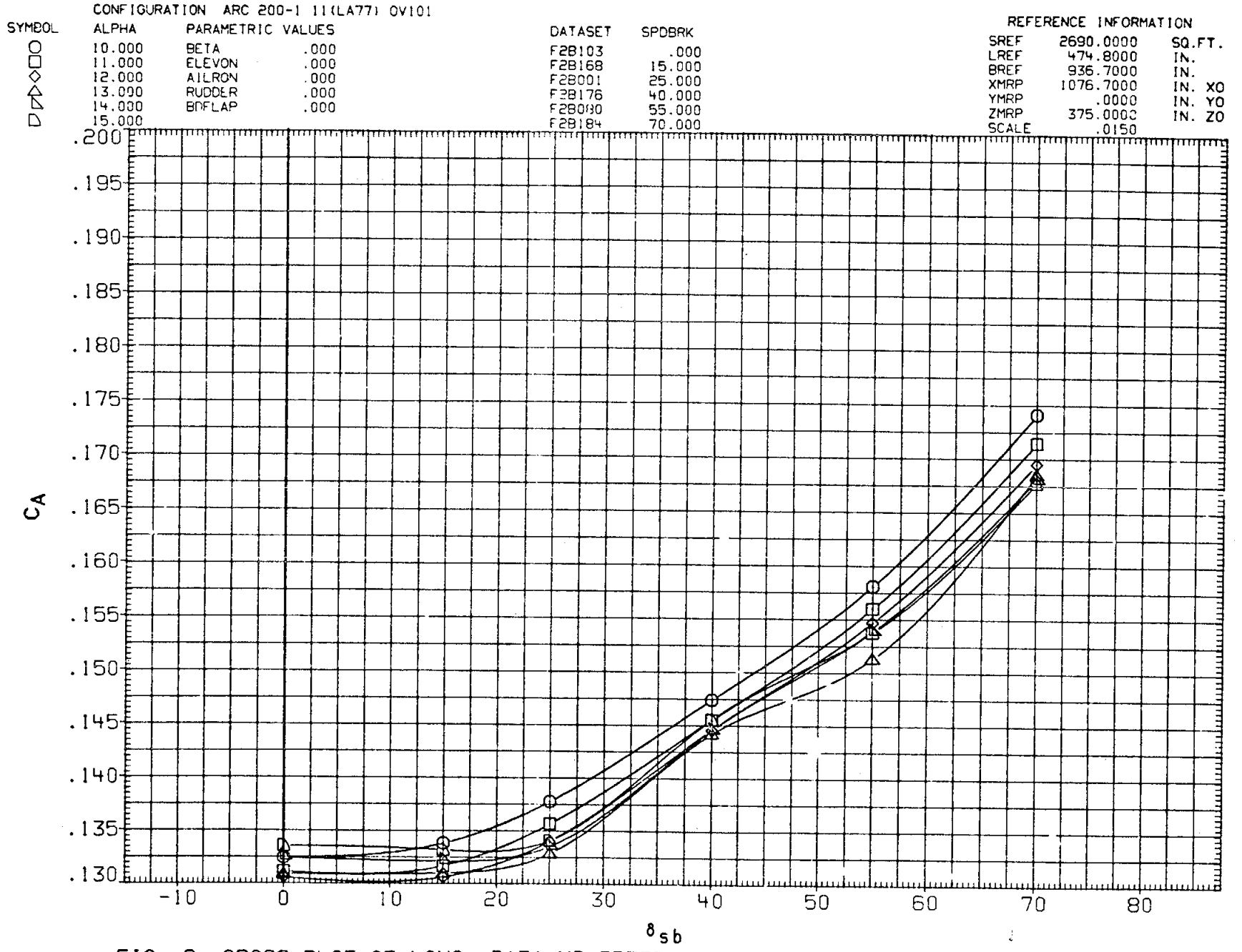

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	16.000	BETA	.000
□	18.000	ELEVON	.000
◇	20.000	AILRON	.000
		RUDDER	.000
		BDFLAP	.000

DATASET	SPDBRK
F2B103	.000
F2B168	15.000
F2B001	25.000
F2B176	40.000
F2B080	55.000
F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

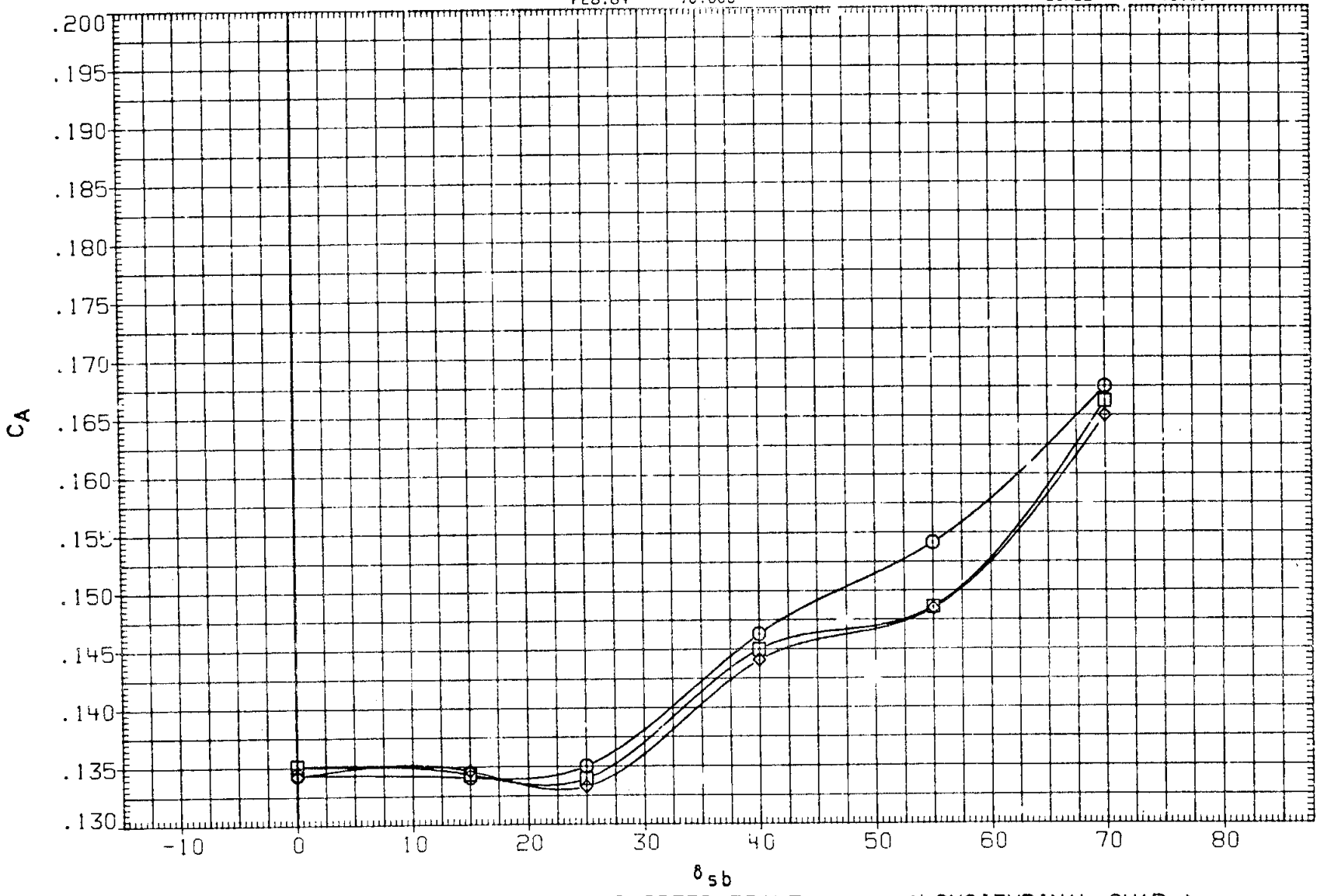

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	-2.000	BETA	.000	F2B103	.000
□	.000	ELEVON	.000	F2B168	15.000
◇	2.000	AILRON	.000	F2B001	25.000
△	4.000	RUDDER	.000	F2B176	40.000
◺	6.000	BDFLAP	.000	F2B080	55.000
◸	8.000			F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

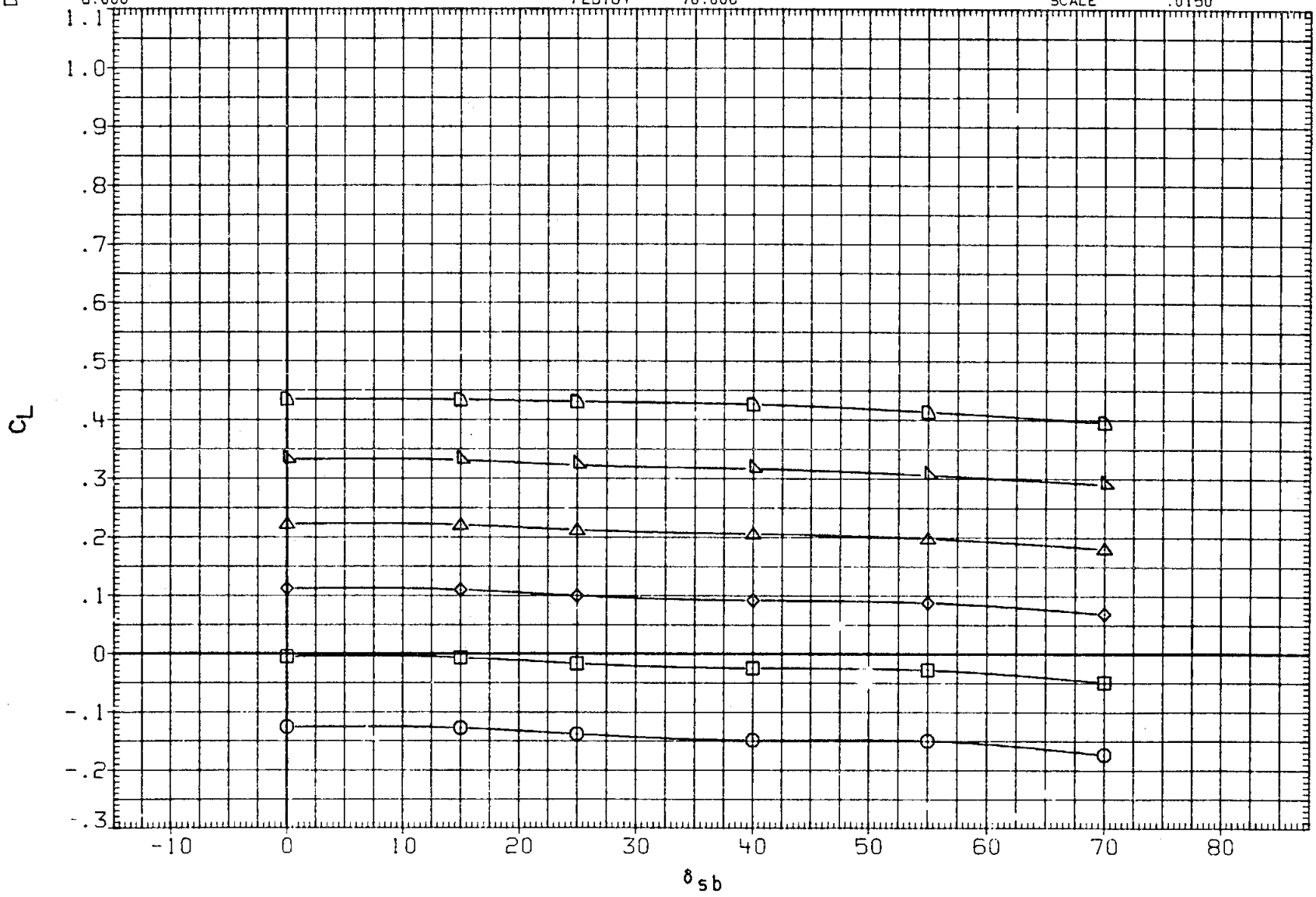

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

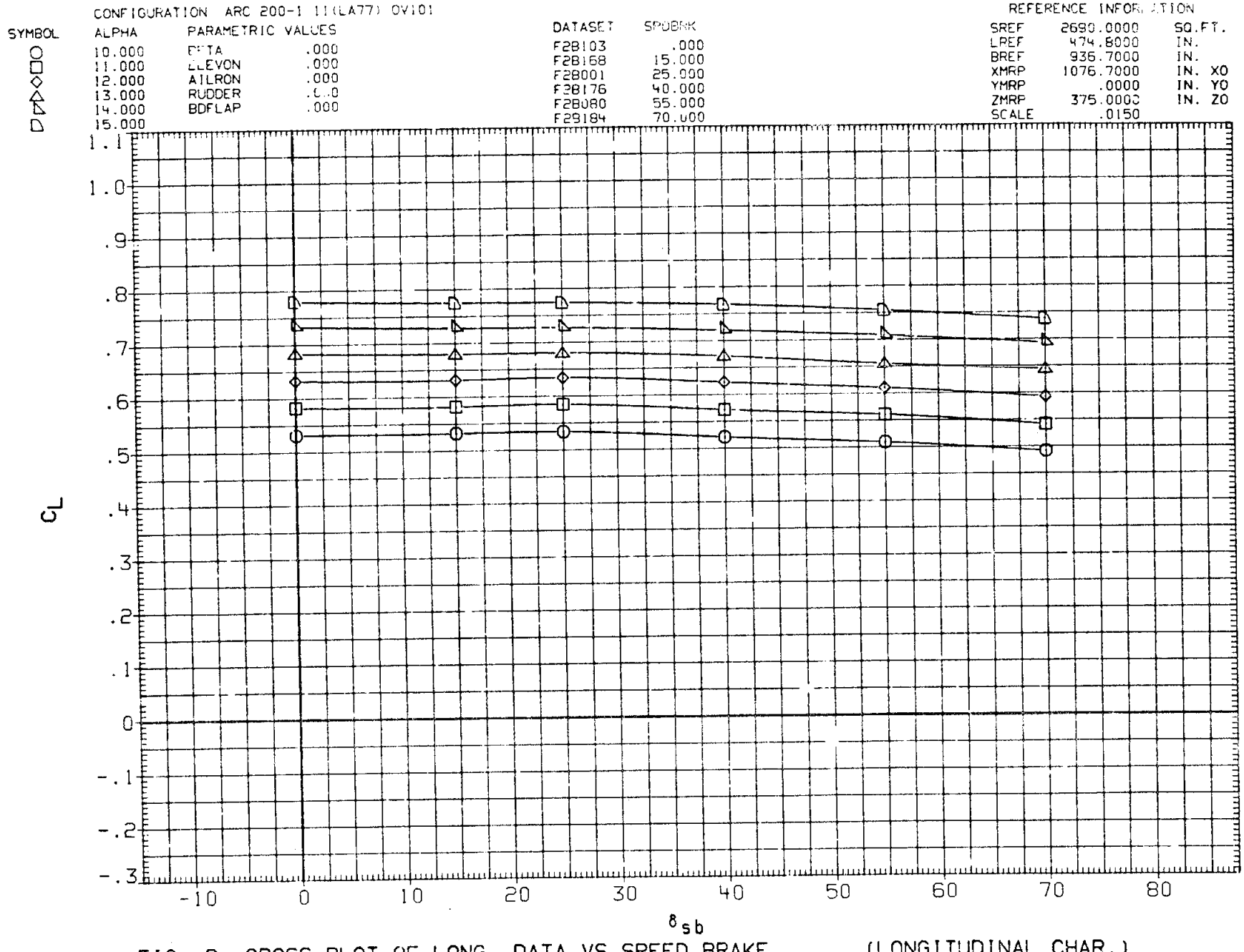

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	16.000	BETA	.000	F2B103	.000
□	18.000	ELEVON	.000	F2B168	15.000
◇	20.000	AILRON	.000	F2B001	25.000
		RUDDER	.000	F2B176	40.000
		BDFLAP	.000	F2B080	55.000
				F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

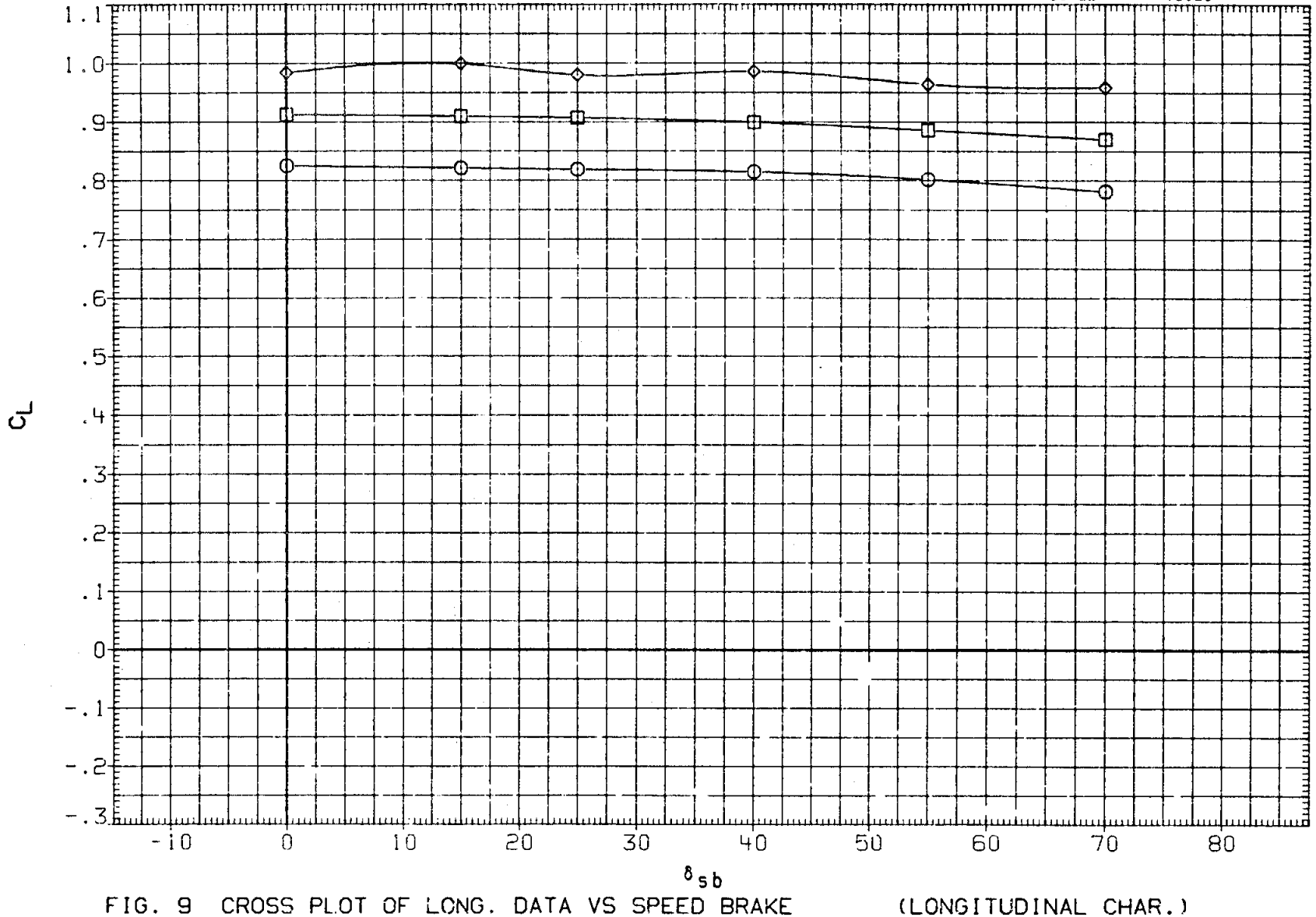

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77, OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPOBRK
○	-2.000	BETA	.000	F28103	.000
□	.000	ELEVON	.000	F28168	15.000
◇	2.000	AILRON	.000	F28001	25.000
△	4.000	RUDDER	.000	F28176	40.000
◺	6.000	BDFLAP	.000	F28080	55.000
D	8.000			F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

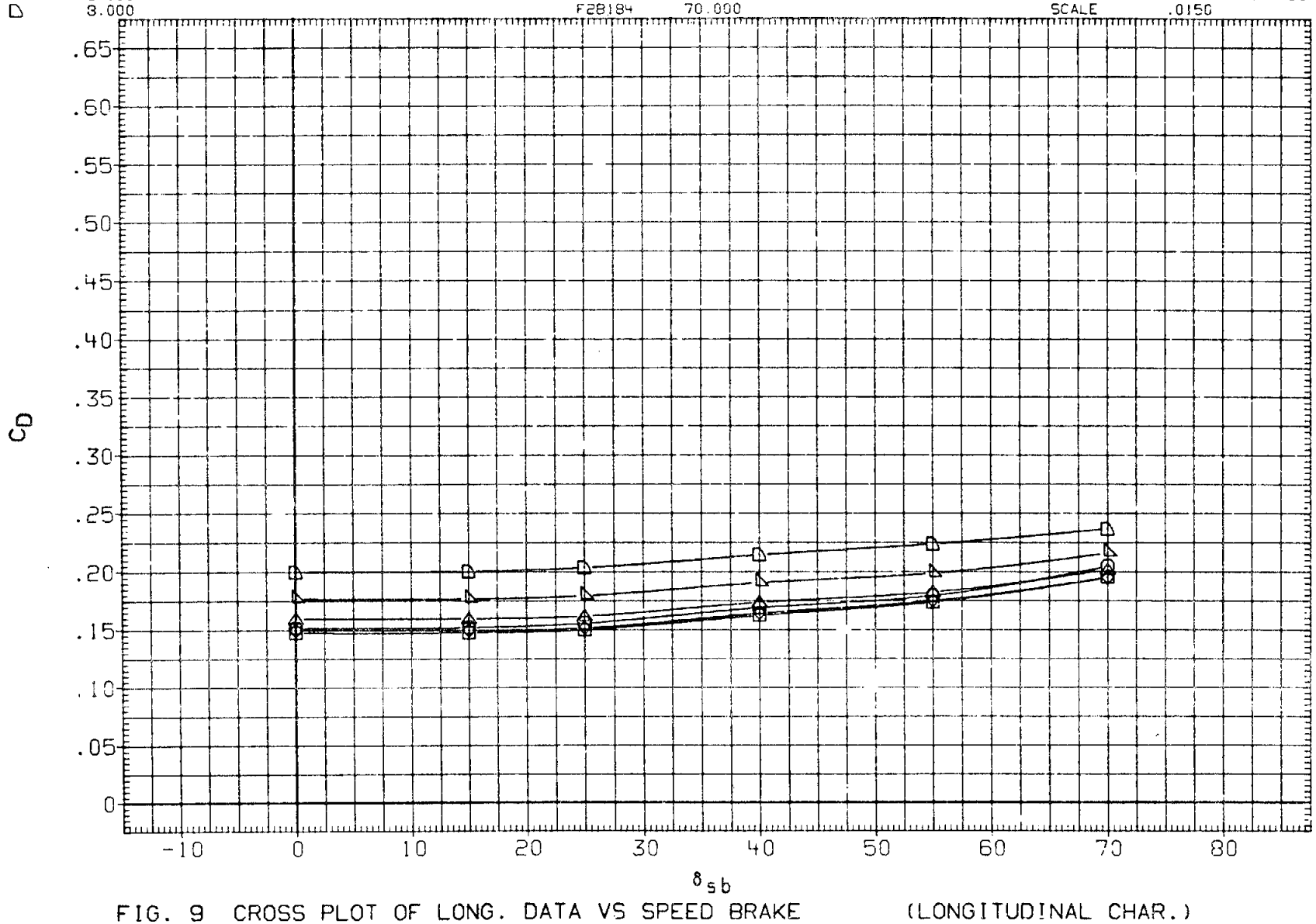

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	10.000	BETA	.000	F2B103	.000
□	11.000	ELEVON	.000	F2B168	15.000
◇	12.000	AILRON	.000	F2B001	25.000
△	13.000	RUDDER	.000	F2B176	40.000
◺	14.000	BDFLAP	.000	F2B080	55.000
◸	15.000			F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

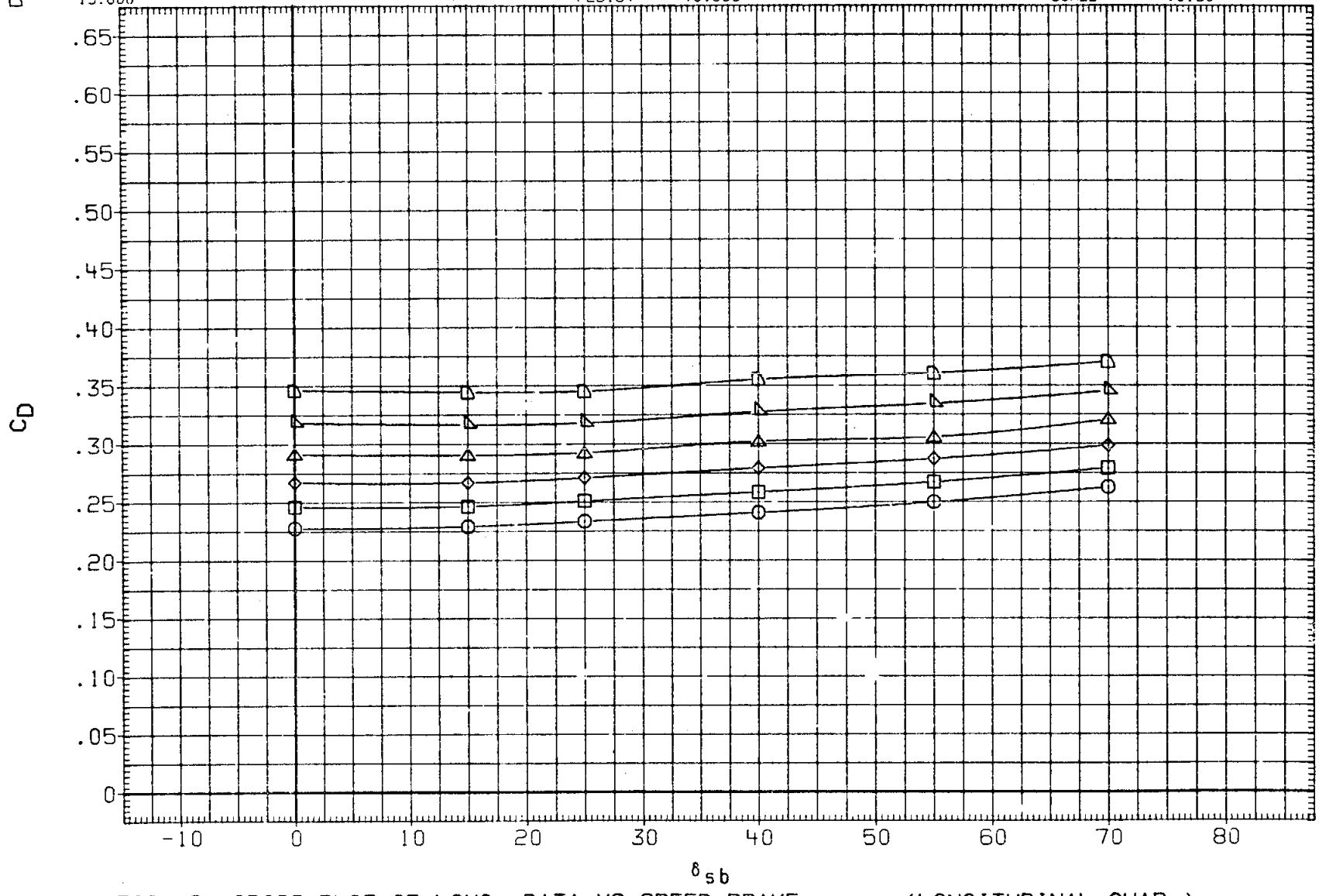

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	16.000	BETA	.000	F2B103	.000
□	18.000	ELEVON	.000	F2B168	15.000
◇	20.000	AILRON	.000	F2B001	25.000
		RUDDER	.000	F2B176	40.000
		BDFLAP	.000	F2B080	55.000
				F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	536.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

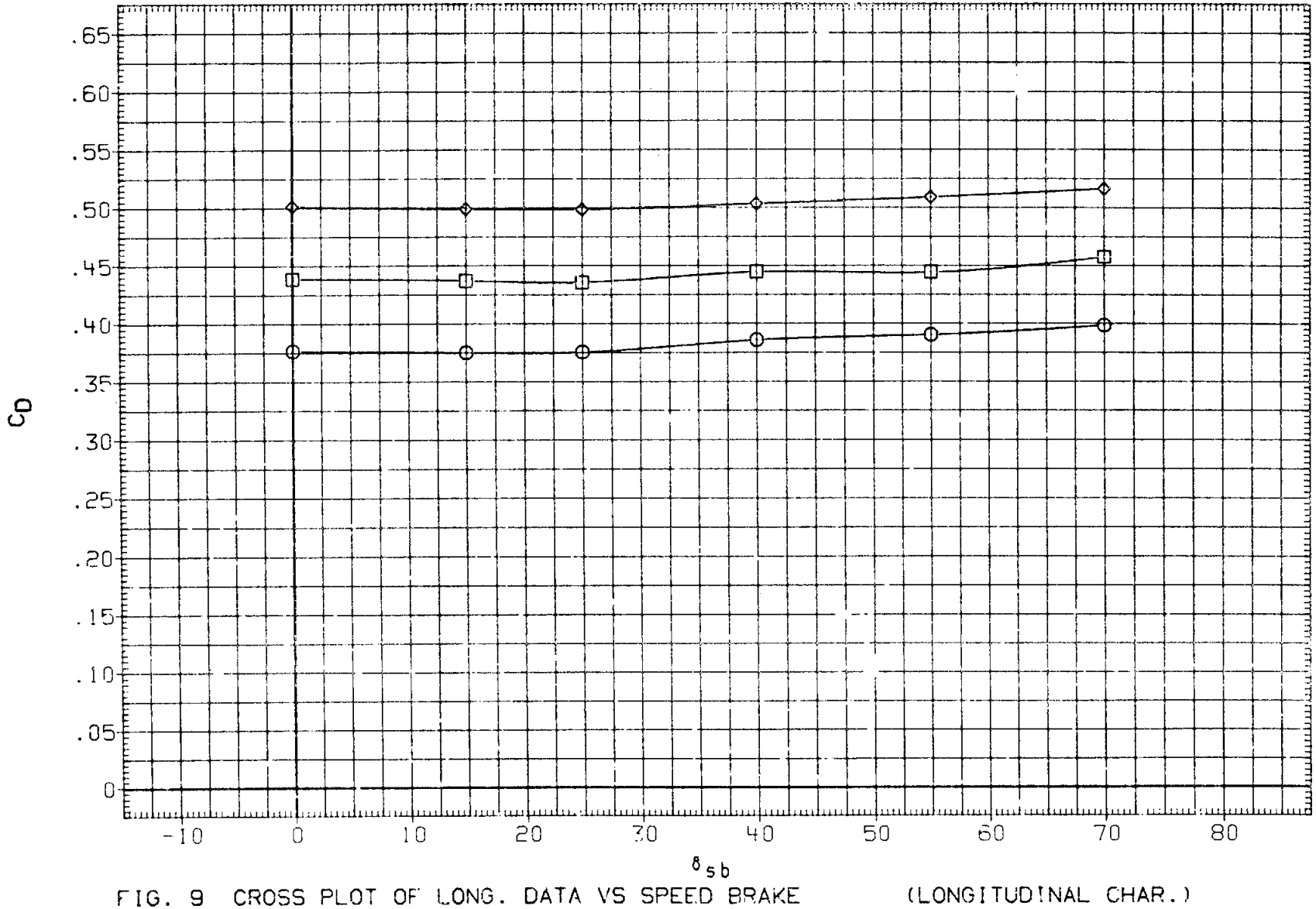

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	-2.000	BETA	.000	F28103	.000
□	.000	ELEVON	.000	F28168	15.000
◇	2.000	AILRON	.000	F28001	25.000
△	4.000	RUDDER	.000	F28176	40.000
◺	6.000	BDFLAP	.000	F28080	55.000
◻	8.000			F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

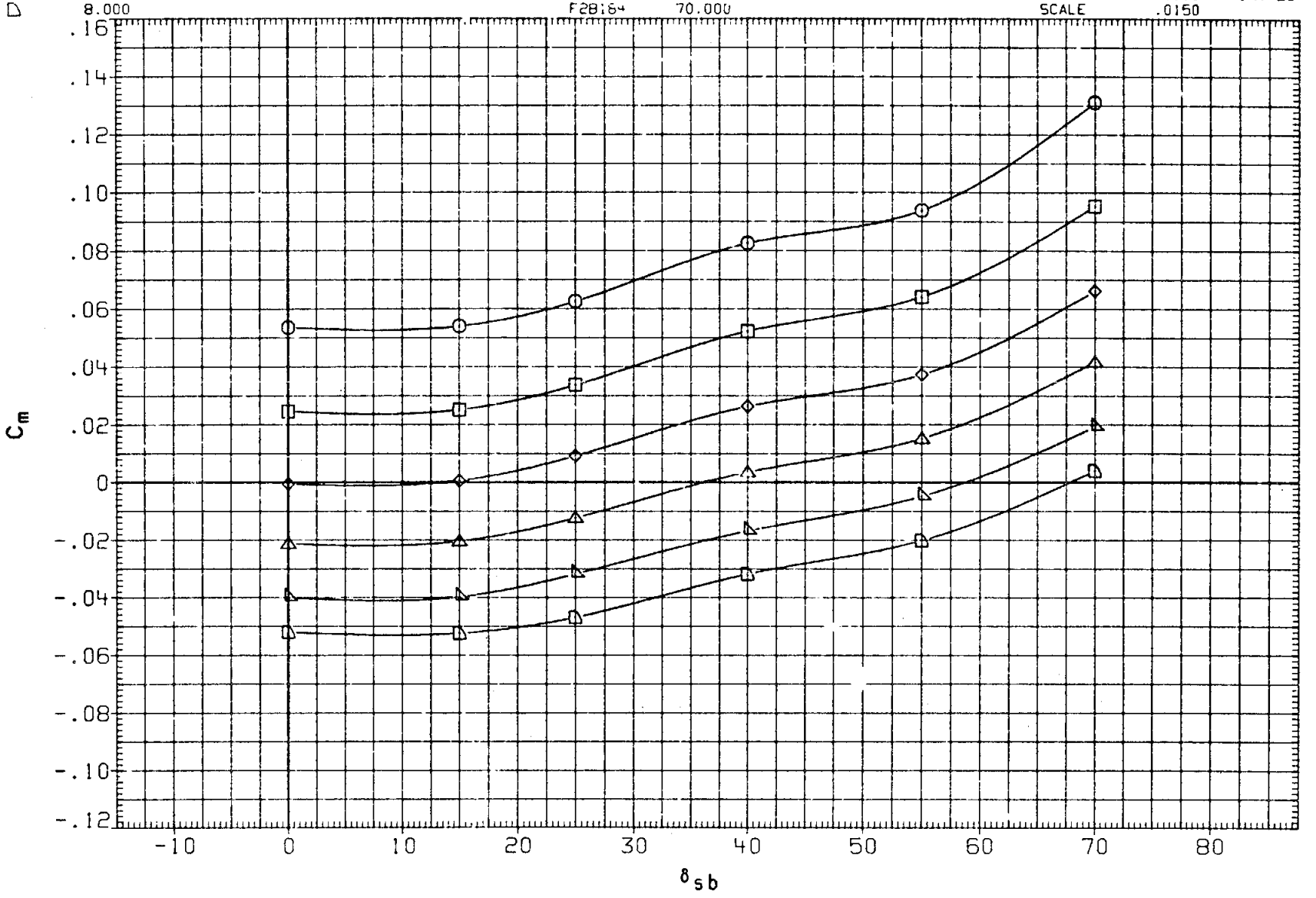

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	10.000	BETA	.000
□	11.000	ELEVON	.000
◇	12.000	AILRON	.000
△	13.000	RUDDER	.000
◁	14.000	BDFLAP	.000
▷	15.000		

DATASET	SPDBRK
F2B103	.000
F2B168	15.000
F2B001	25.000
F2B176	40.000
F2B080	55.000
F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

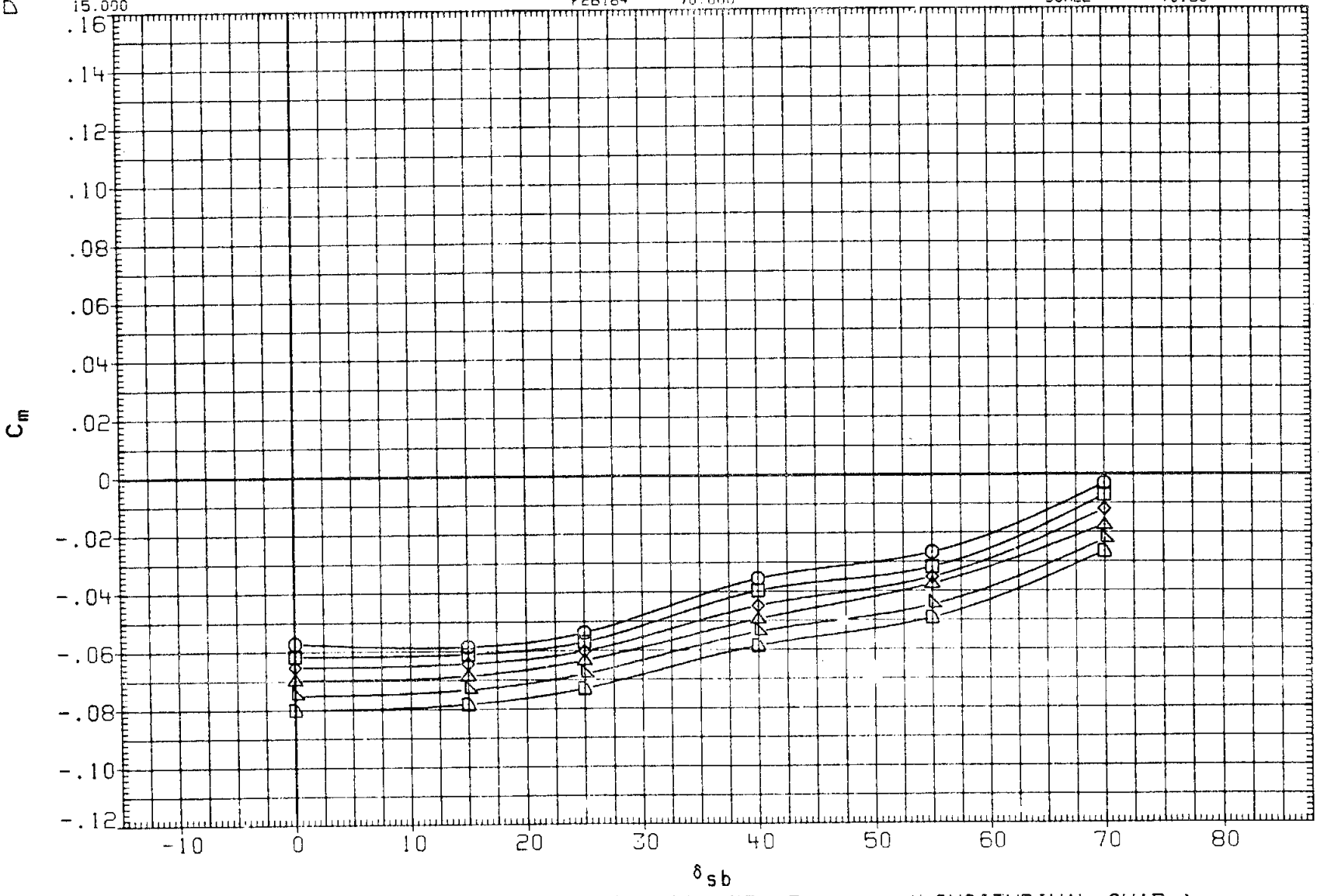

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	16.000	BETA	.000	F2B103	.000
□	18.000	ELEVON	.000	F2B168	15.000
◇	20.000	AILRON	.000	F2B001	25.000
		RUDDER	.000	F2B176	40.000
		BDFLAP	.000	F2B080	55.000
				F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

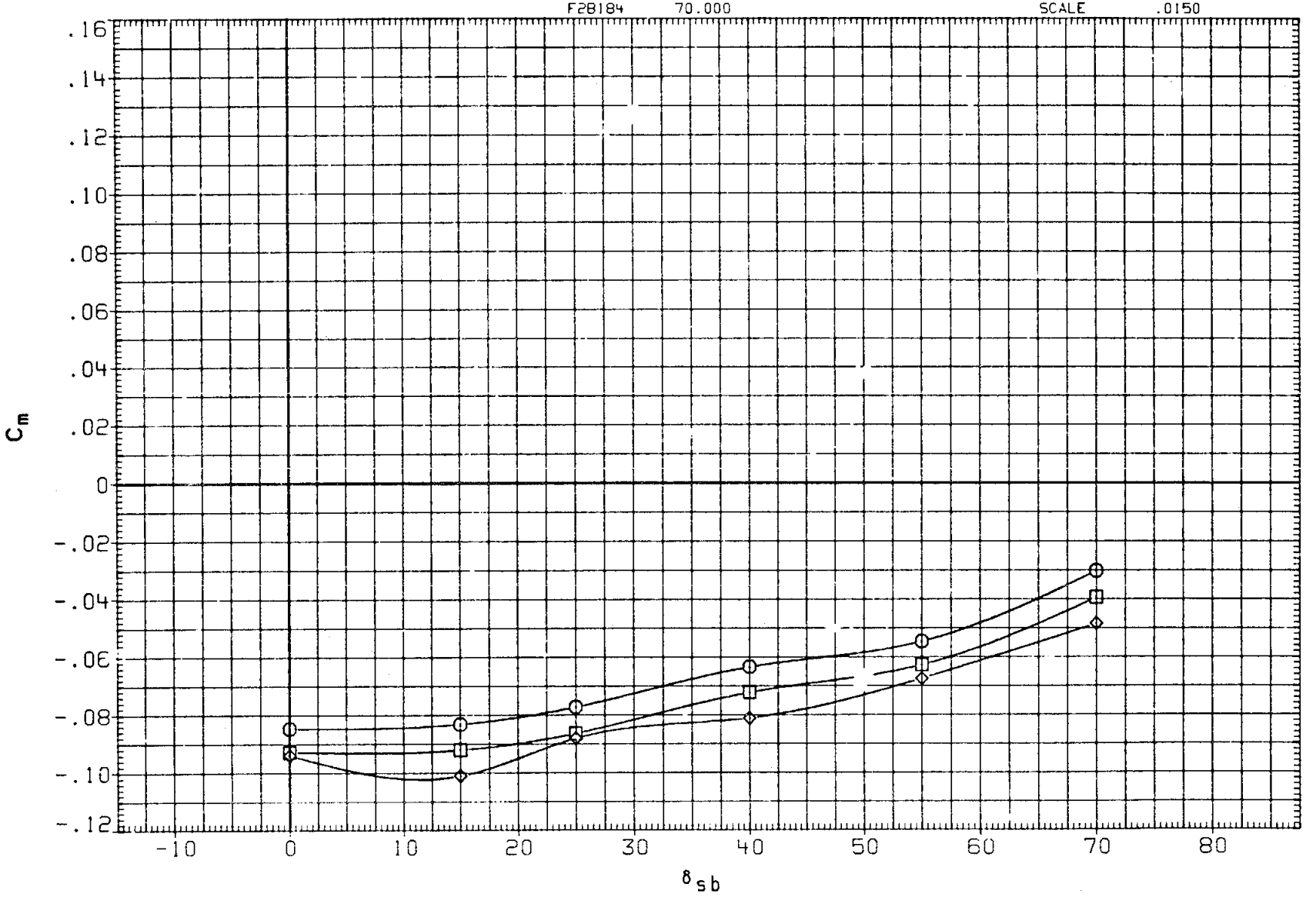

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	-2.000	BETA	.000
□	.000	ELEVON	.000
◇	2.000	AILRON	.000
△	4.000	RUDDER	.000
◁	6.000	BDFLAP	.000
▷	8.000		

DATASET	SPDBRK
F2B103	.000
F2B168	15.000
F2B001	25.000
F2B176	40.000
F2B080	55.000
F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

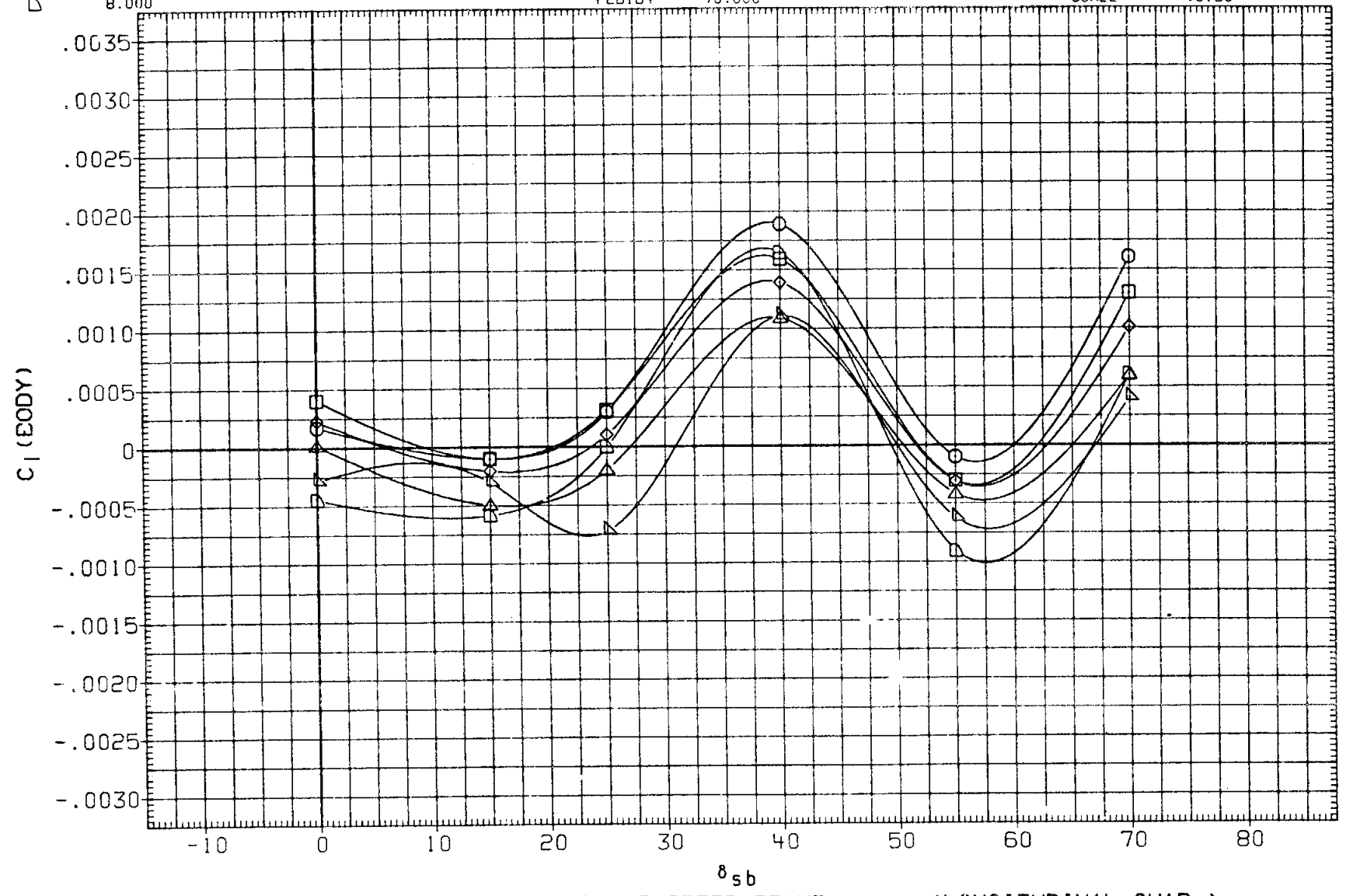

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	10.000	BETA	.000
□	11.000	ELEVON	.000
◇	12.000	AILRON	.000
△	13.000	RUDDER	.000
◁	14.000	BDFLAP	.000
▷	15.000		

DATASET	SPDBRK
F28103	.000
F28168	15.000
F28001	25.000
F28176	40.000
F28080	55.000
F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

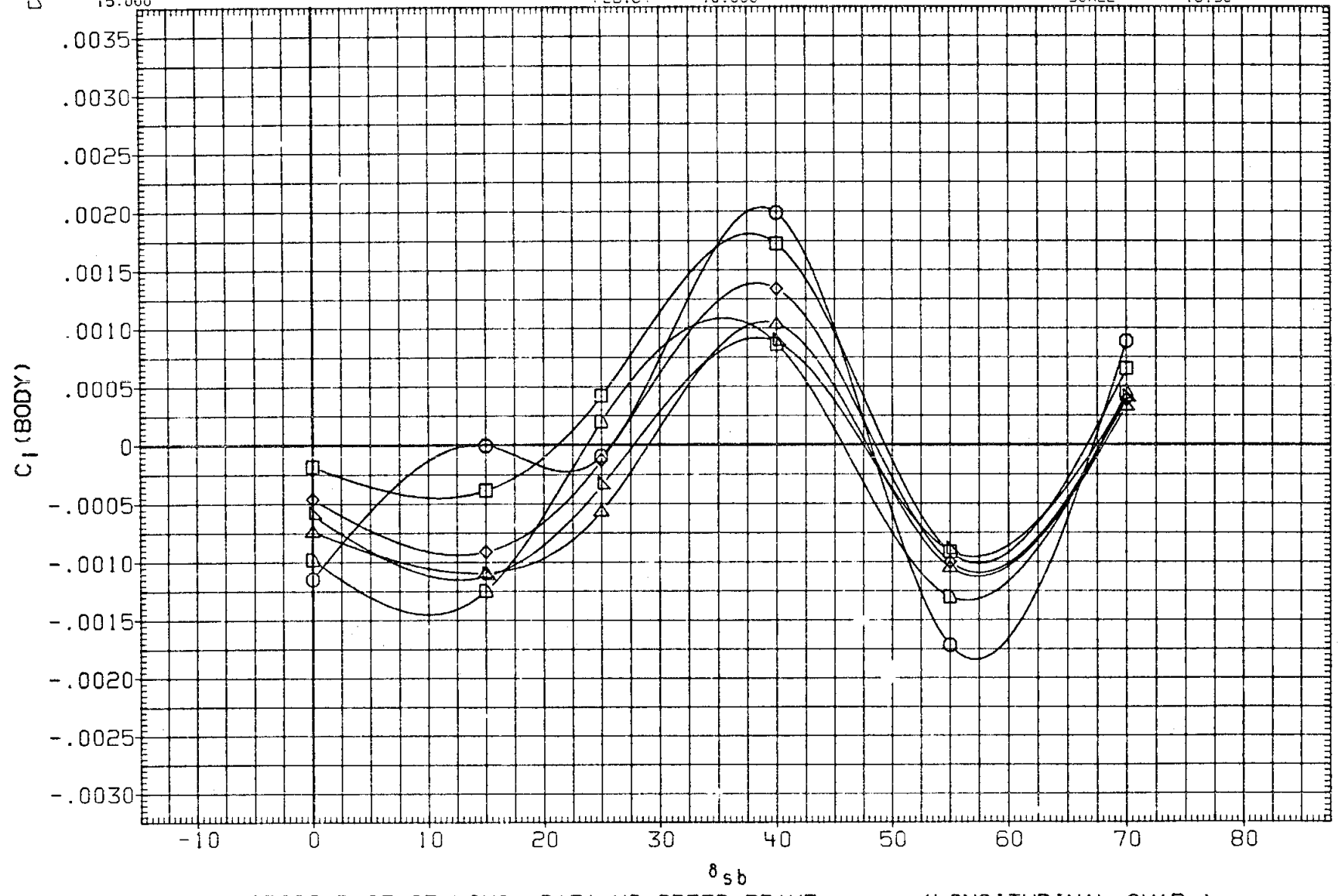

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	16.000	BETA	.000	F2B103	.000
□	18.000	ELEVON	.000	F2B168	15.000
◇	20.000	AILRON	.000	F2B001	25.000
		RUDDER	.000	F2B176	40.000
		BDFLAP	.000	F2B080	55.000
				F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

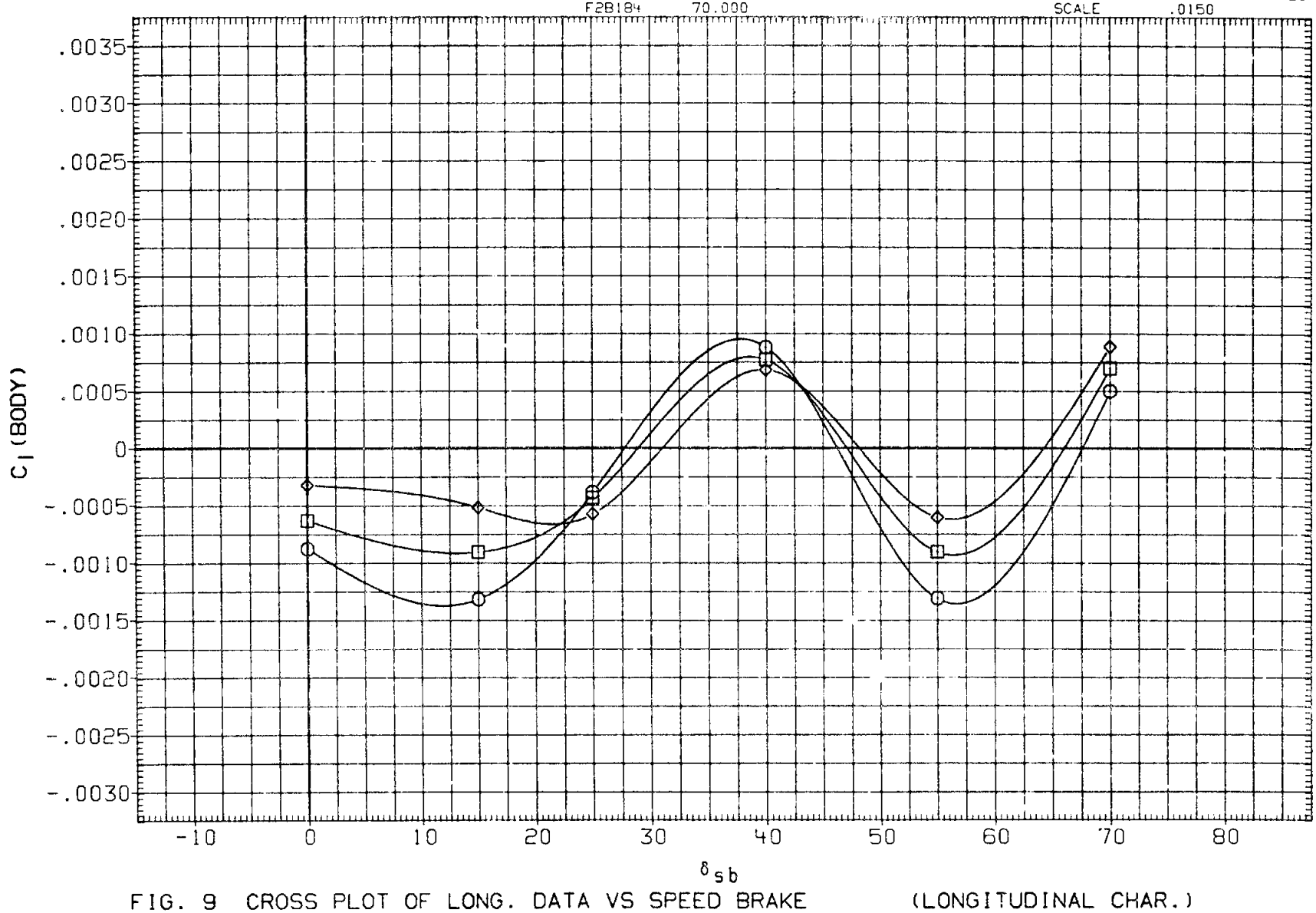

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	-2.000	BETA	.000	F2B103	.000
□	.000	ELEVON	.000	F2B168	15.000
◇	2.000	AILRON	.000	F2B001	25.000
△	4.000	RUDDER	.000	F2B176	40.000
◺	6.000	BDFLAP	.000	F2B080	55.000
◸	8.000			F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

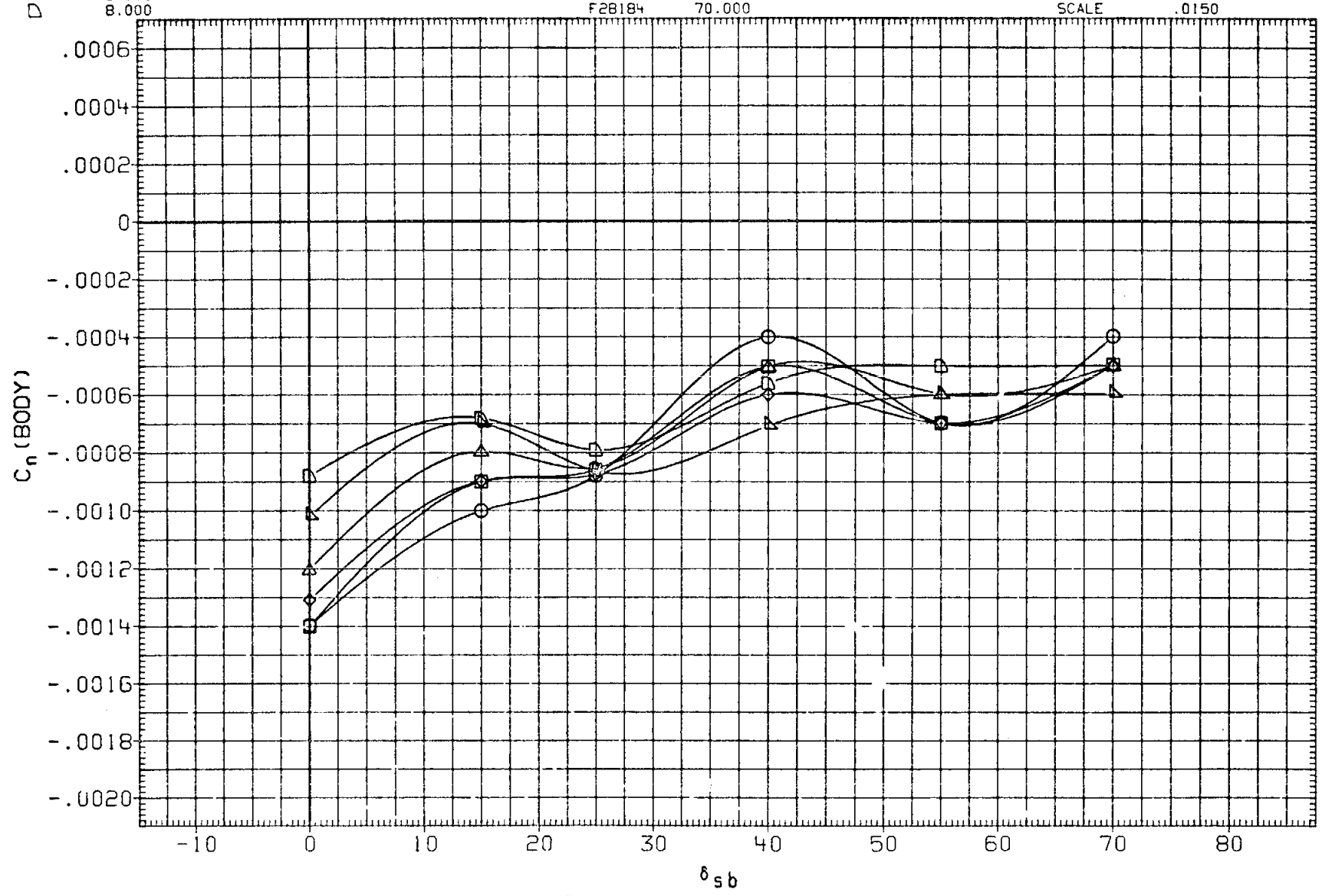

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPOBRK
○	10.000	BETA	.000	F2B103	.000
□	11.000	ELEVON	.000	F2B168	15.000
◇	12.000	AILRON	.000	F2B001	25.000
△	13.000	RUDDER	.000	F2B176	40.000
◁	14.000	BDFLAP	.000	F2B080	55.000
▷	15.000			F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

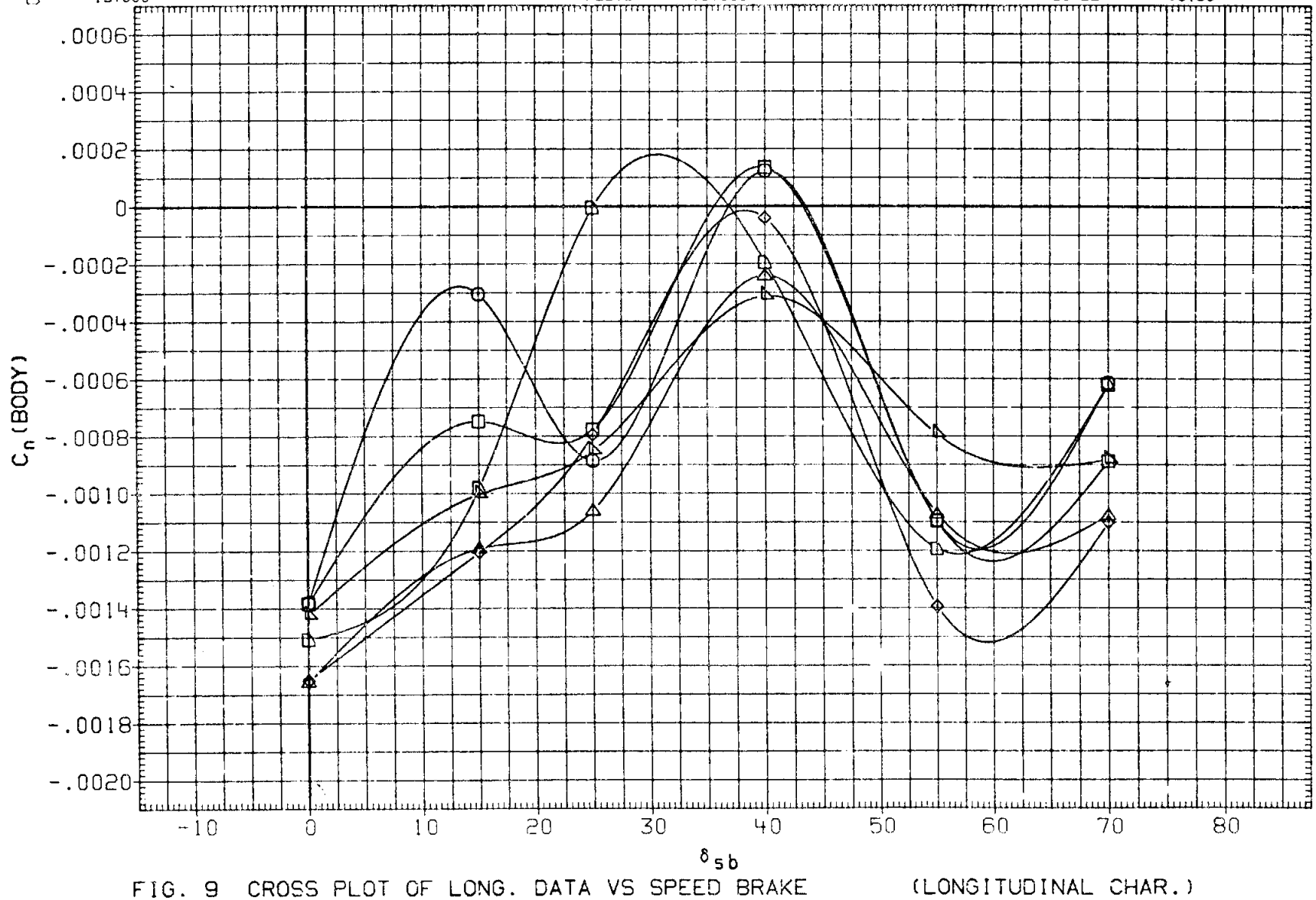

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	16.000	BETA	.000
□	18.000	ELEVON	.000
◇	20.000	AILRON	.000
		RUDDER	.000
		BDFLAP	.000

DATASET	SPDBRK
F2B103	.000
F2B168	15.000
F2B001	25.000
F2B176	40.000
F2B080	55.000
F2B184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

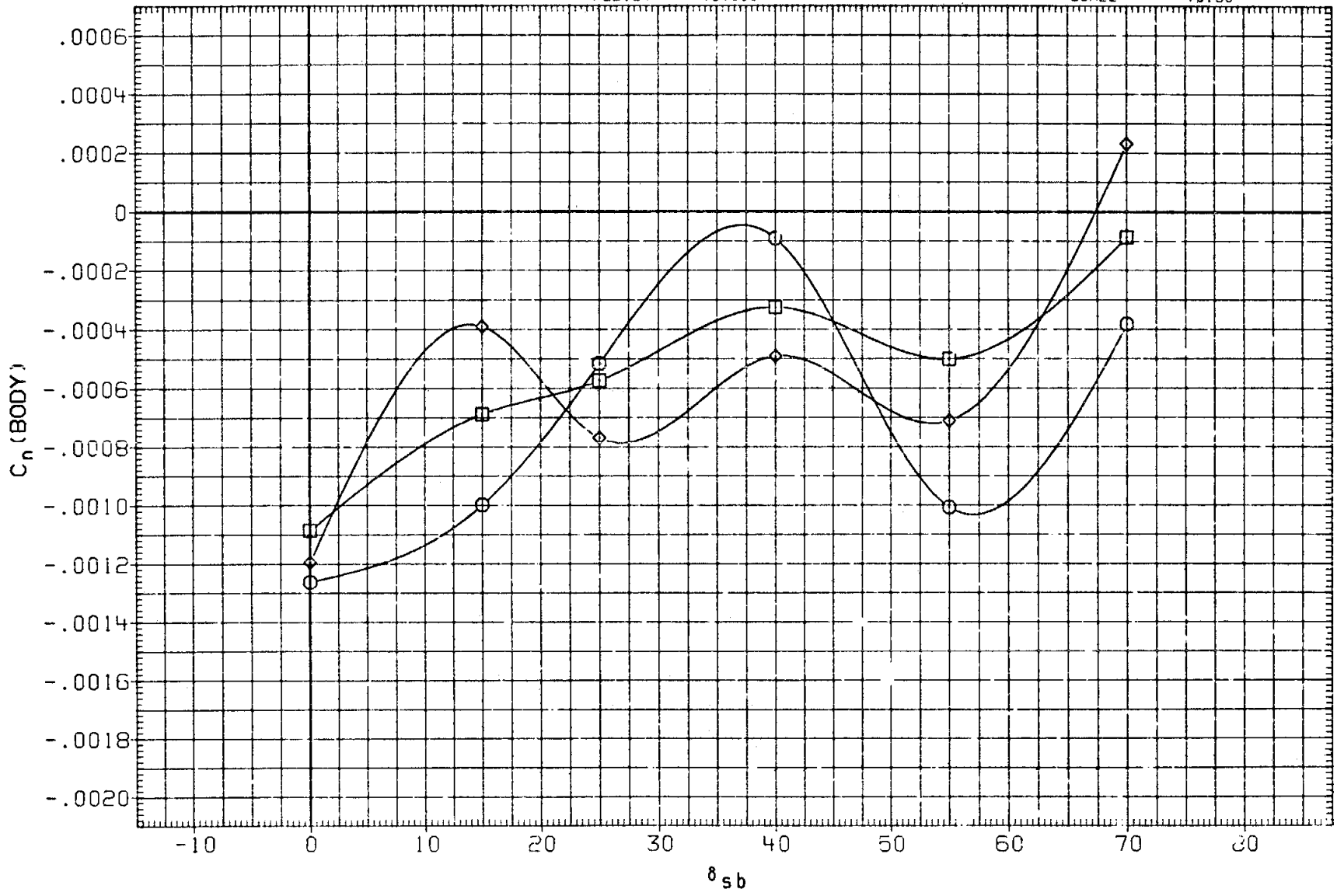

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

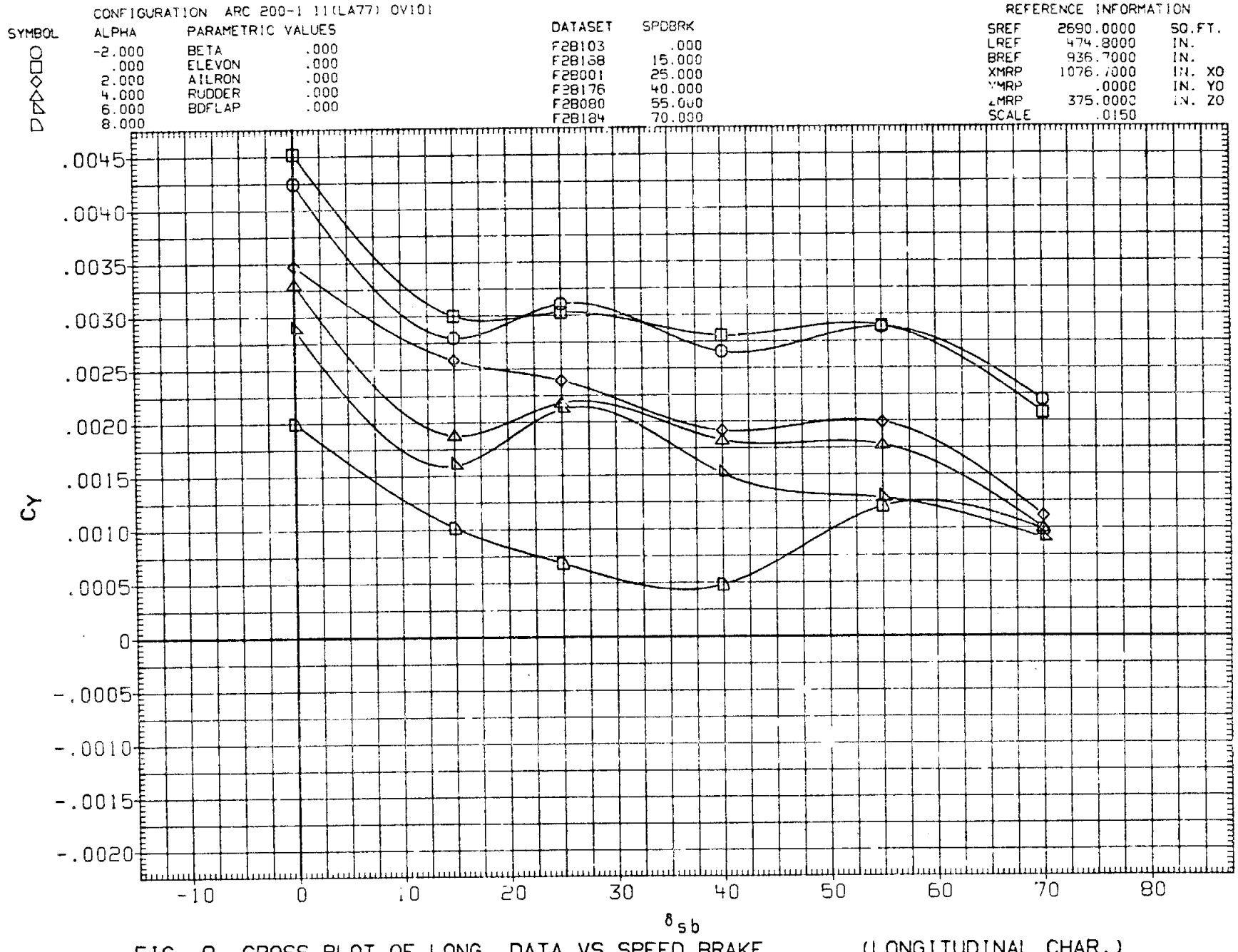

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES		DATASET	SPDBRK
○	10.000	BETA	.000	F28103	.000
□	11.000	ELEVON	.000	F28168	15.000
◇	12.000	AILRON	.000	F28001	25.000
△	13.000	RUDDER	.000	F28176	40.000
◁	14.000	BDFLAP	.000	F28080	55.000
▷	15.000			F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

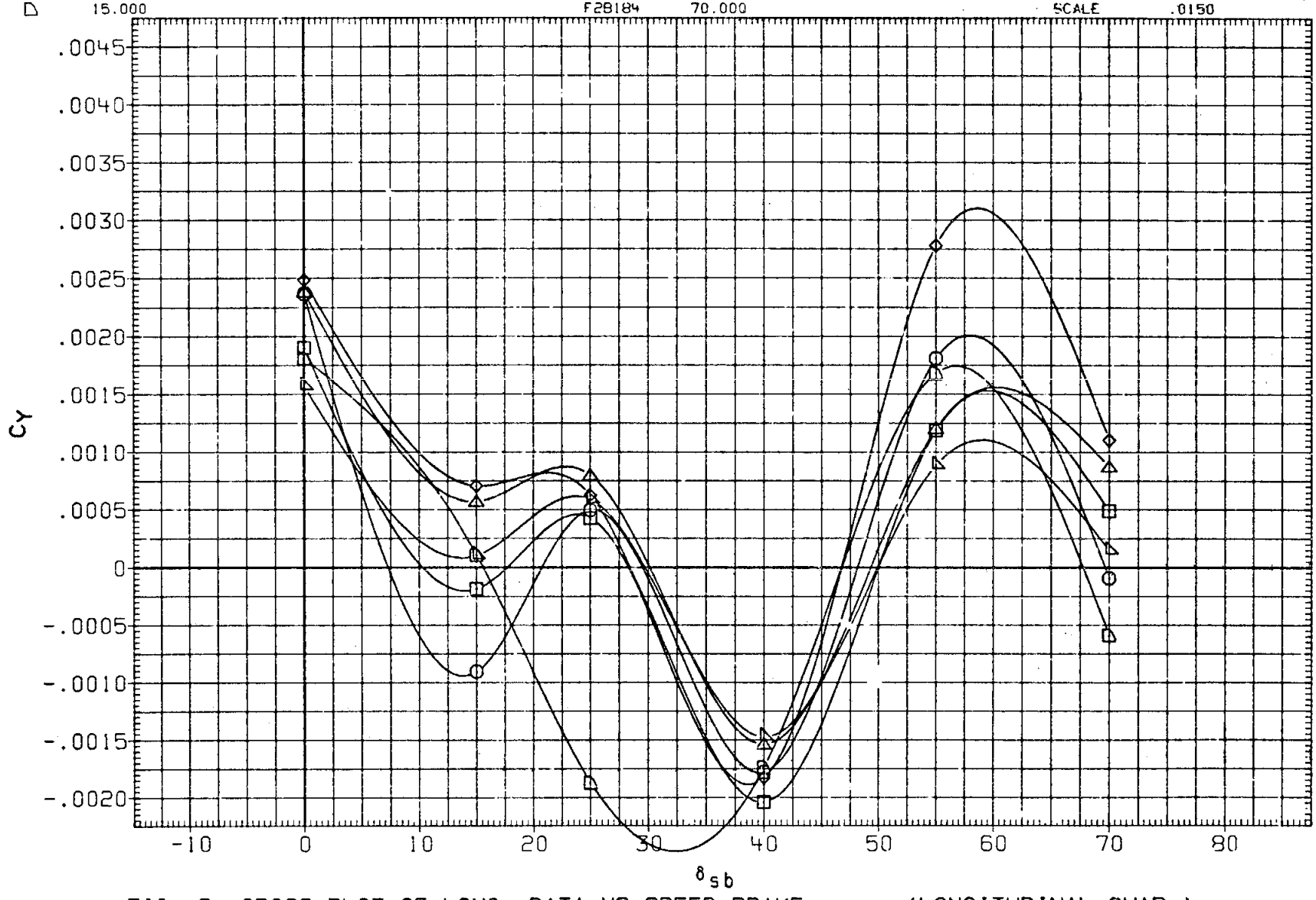

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A)MACH = 1.20

CONFIGURATION ARC 200-1 11(LA77) OV101

SYMBOL	ALPHA	PARAMETRIC VALUES	
○	16.000	BETA	.000
□	18.000	ELEVON	.000
◇	20.000	AILRON	.000
		RUDDER	.000
		BDFLAP	.000

DATASET	SPDBRK
F28103	.000
F28168	15.000
F28001	25.000
F28176	40.000
F28080	55.000
F28184	70.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

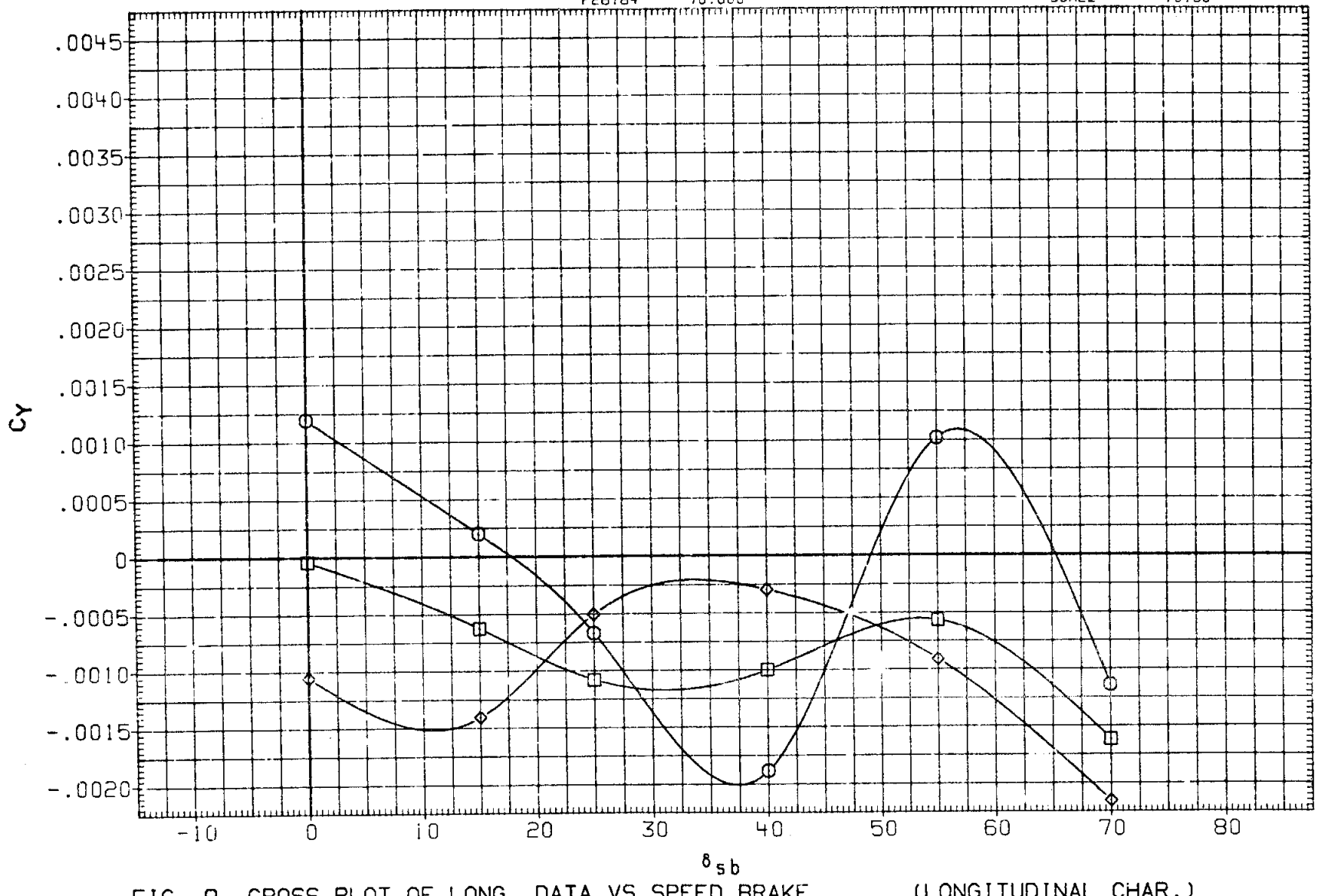

FIG. 9 CROSS PLOT OF LONG. DATA VS SPEED BRAKE (LONGITUDINAL CHAR.)

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

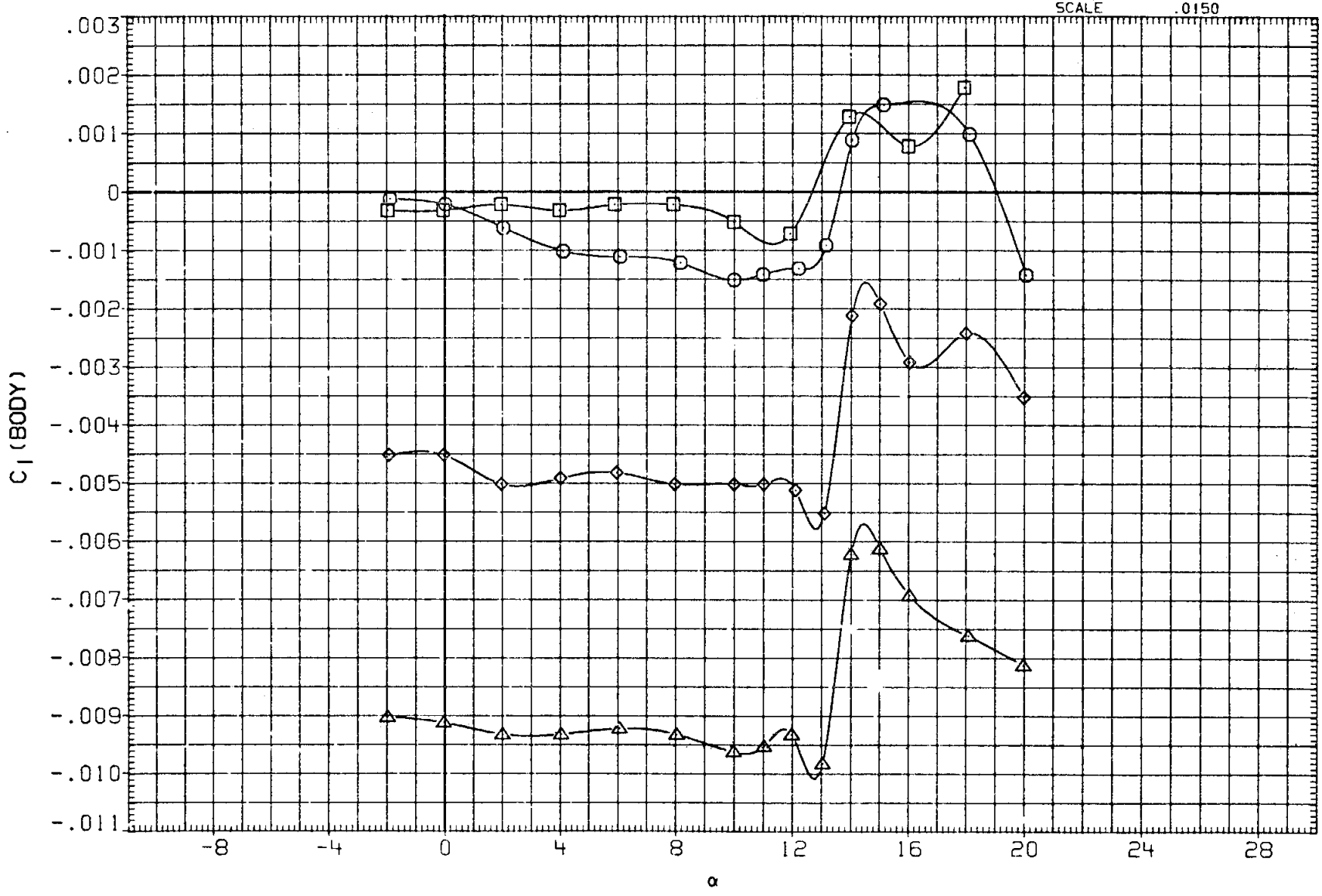

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

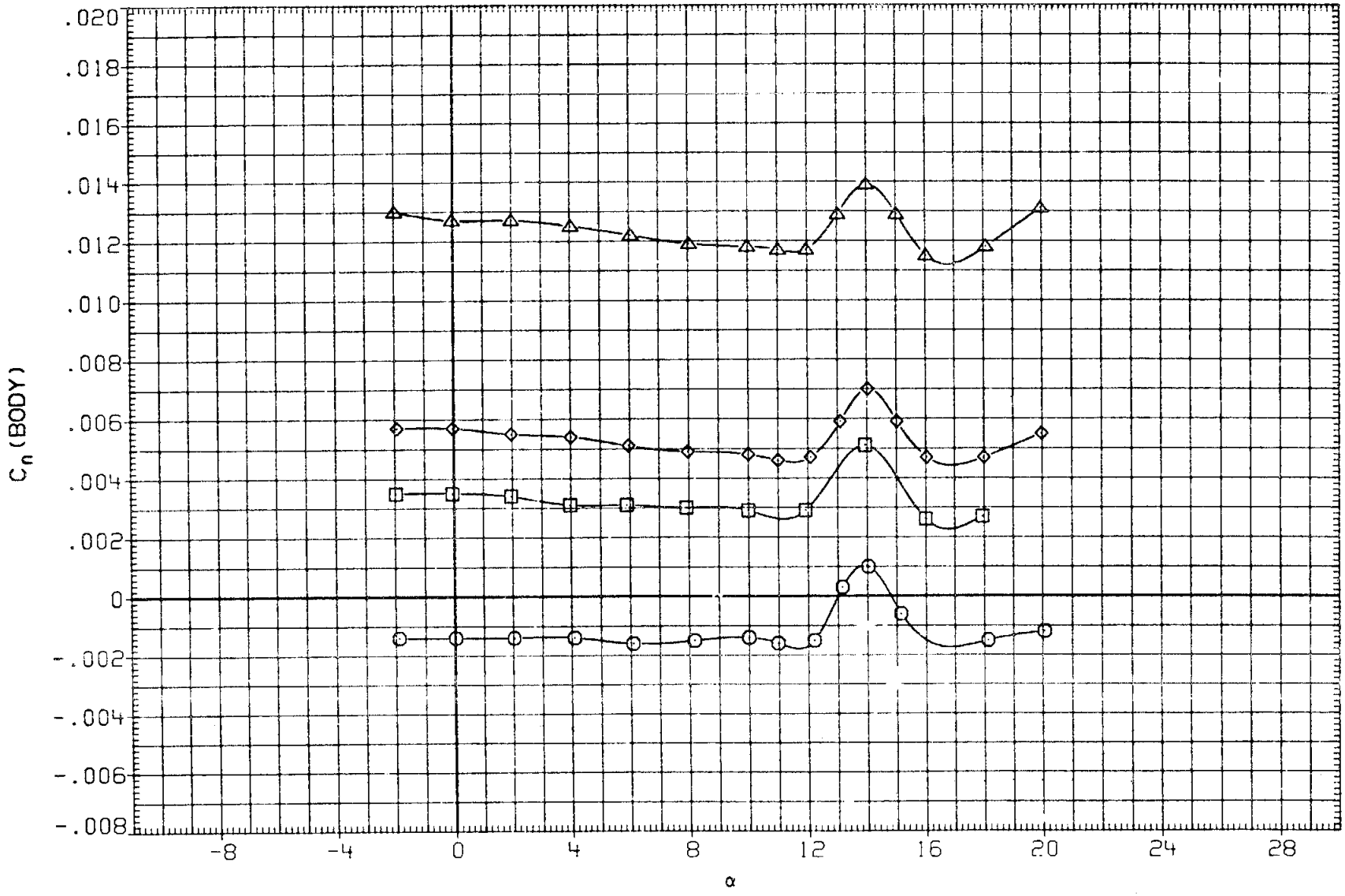

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

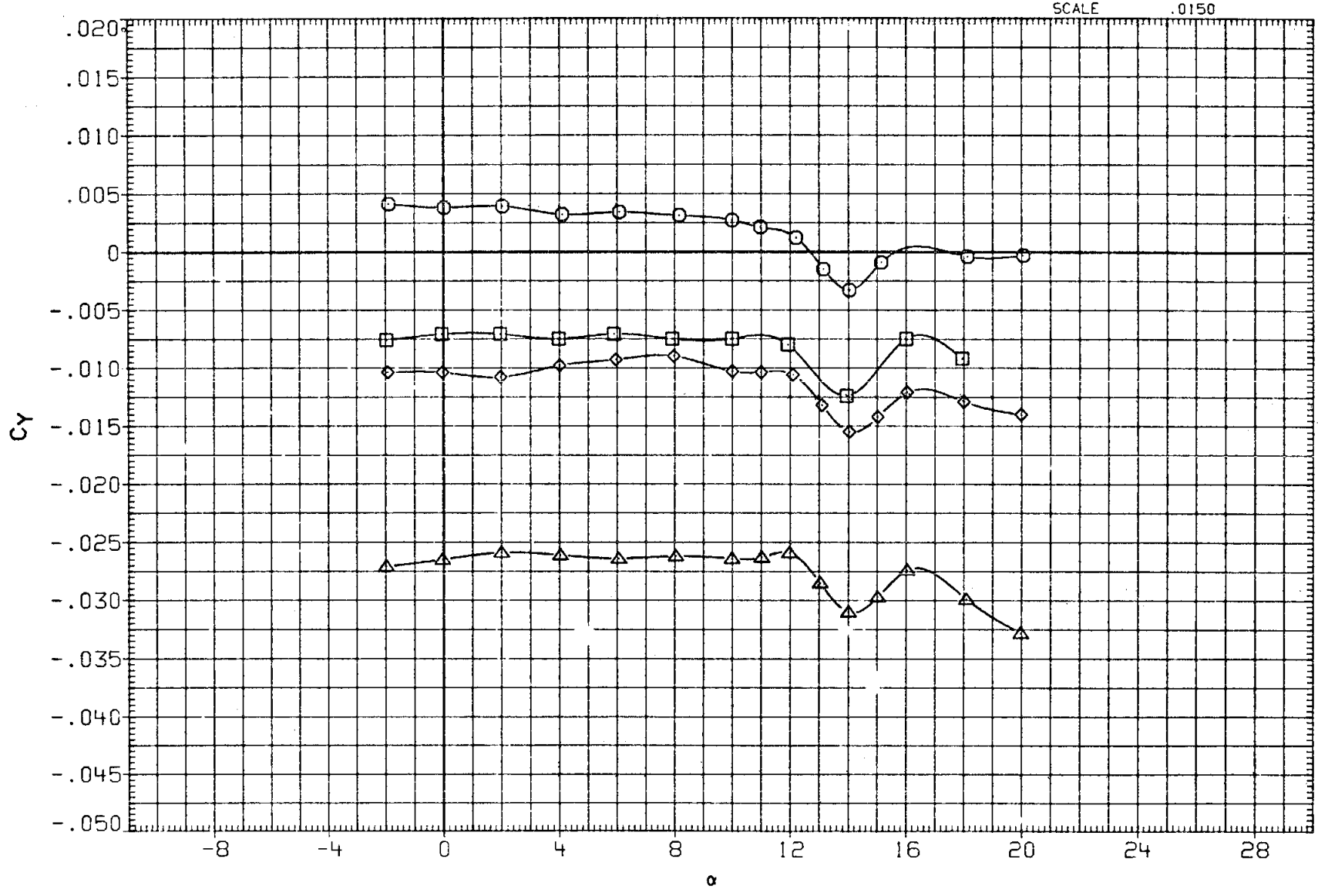

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R28131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R28121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

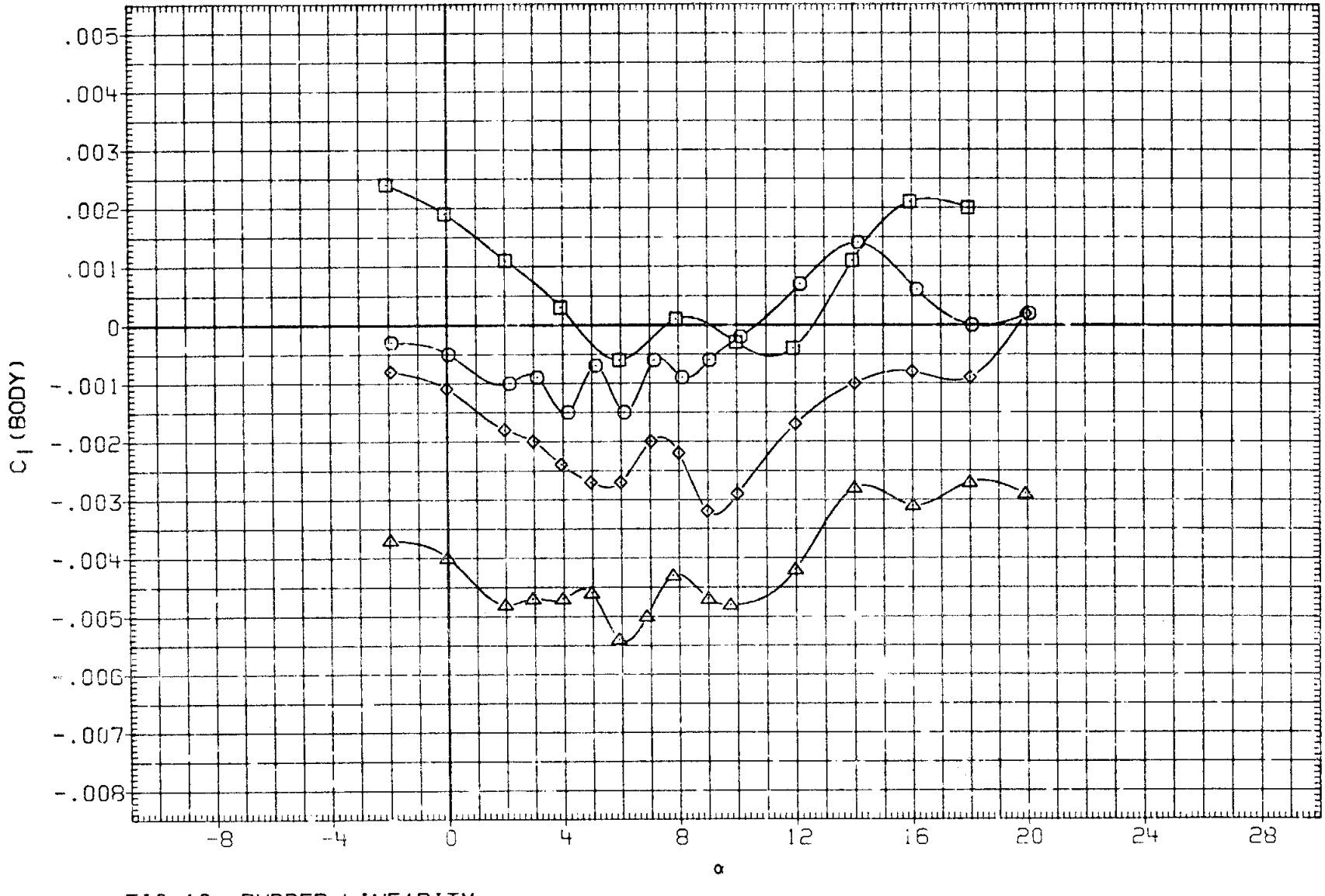

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

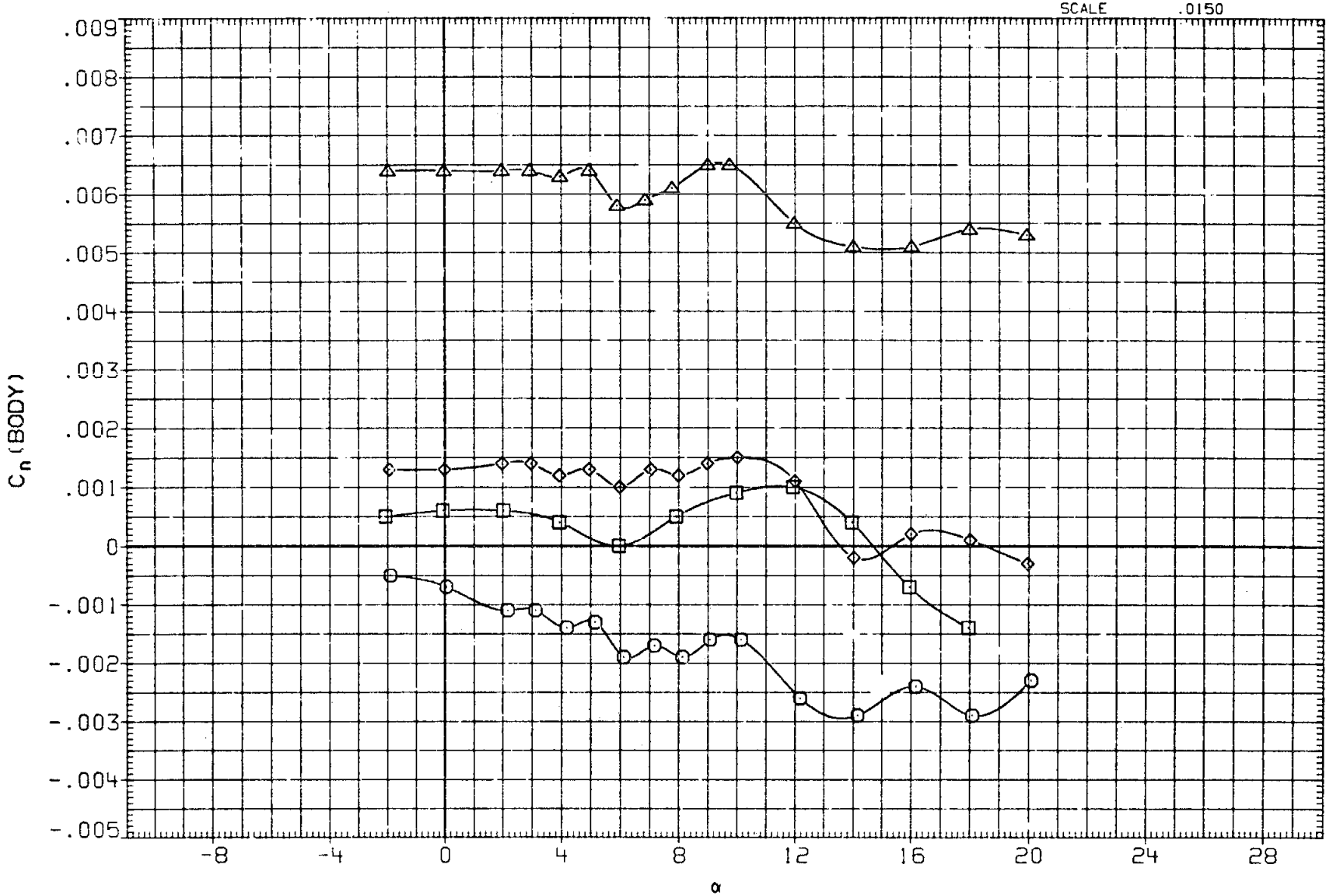

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

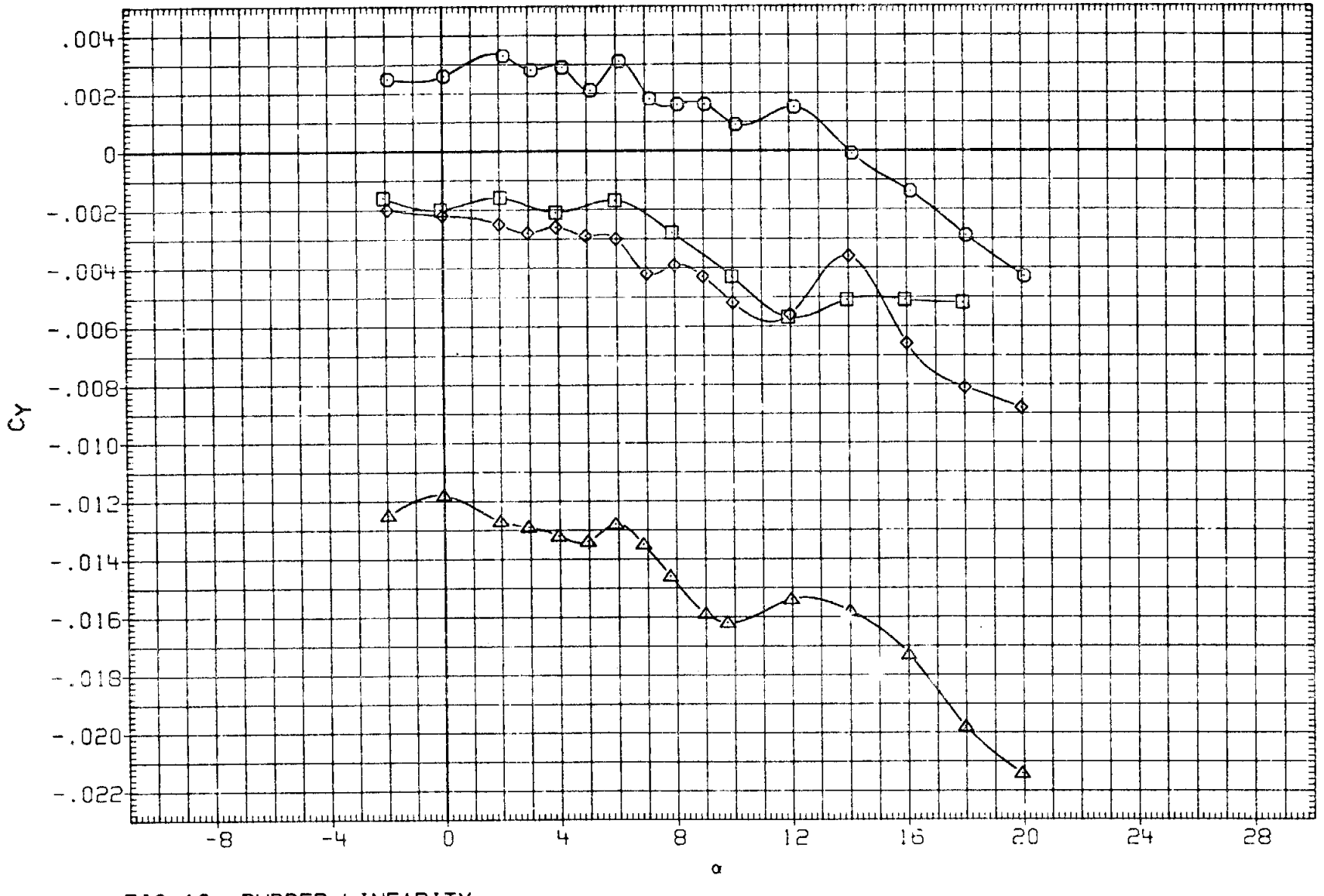

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

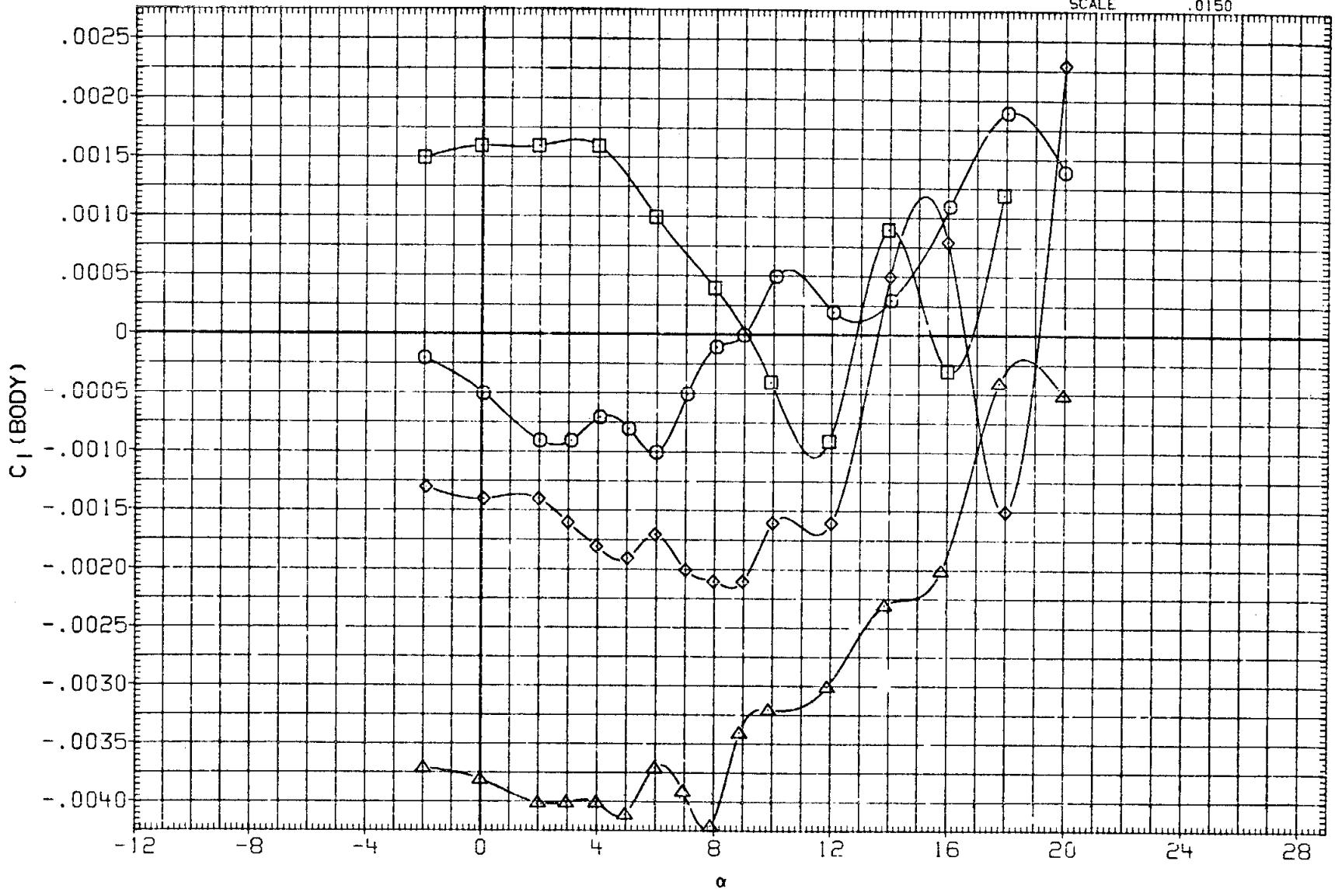

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B227	□	ARC 200-1 11(LA77) OV101
R2B131	◇	ARC 200-1 11(LA77) OV101
R2B121	△	ARC 200-1 11(LA77) OV101

RUDDER	SPDBRK	BETA	BDFLAP
.000	.000	.000	.000
-3.000	.000	.000	.000
-5.000	.000	.000	.000
-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

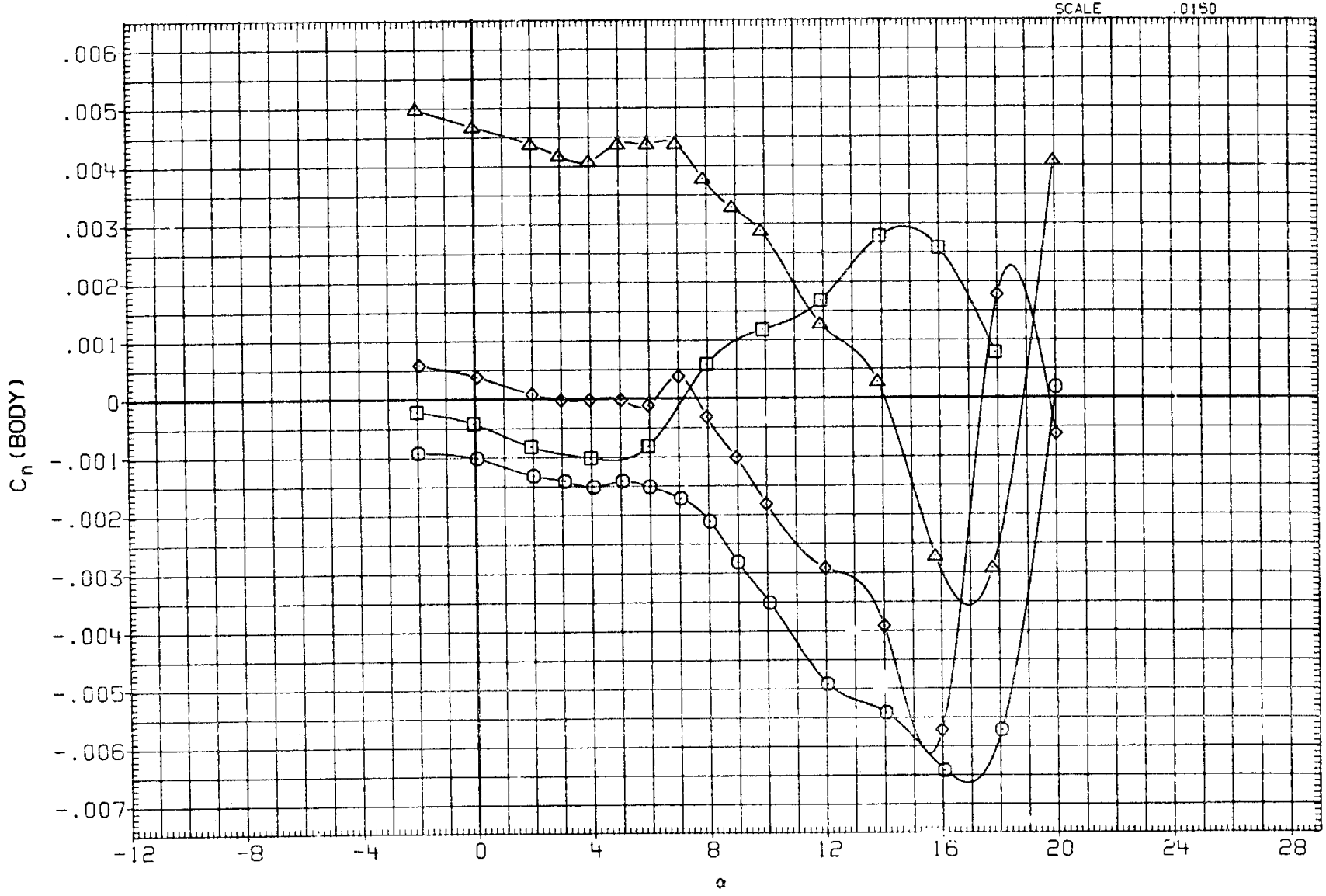

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

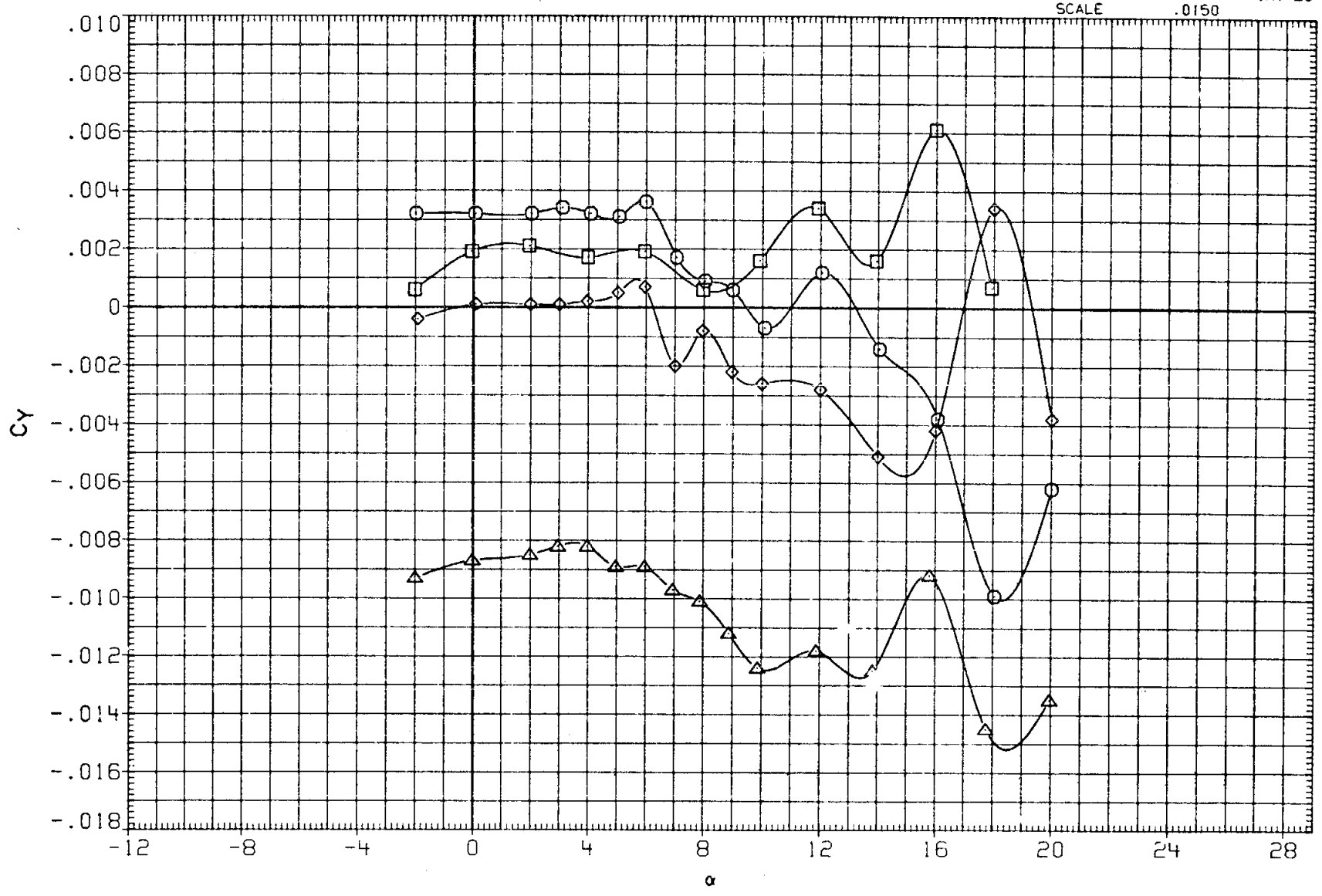

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

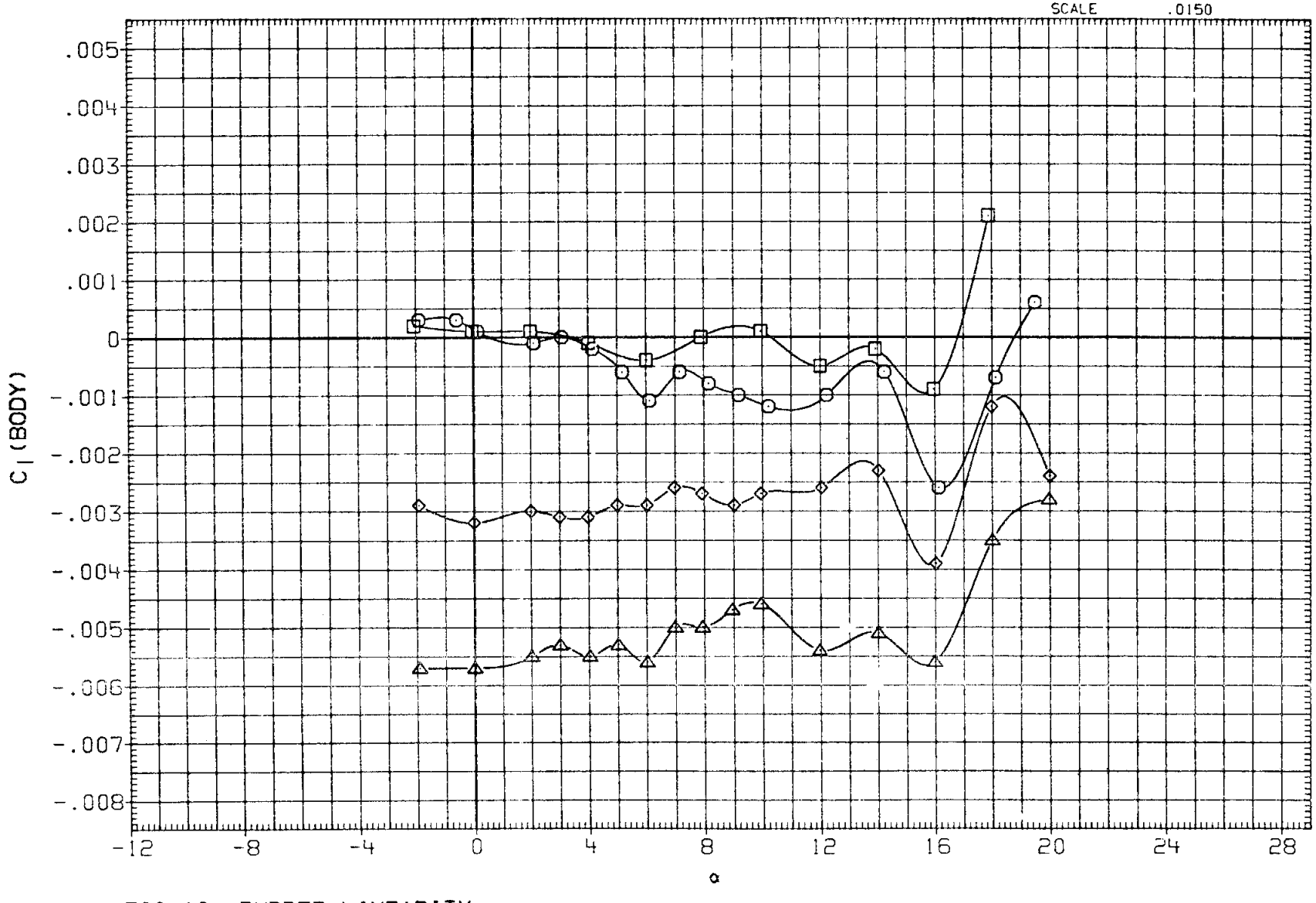

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

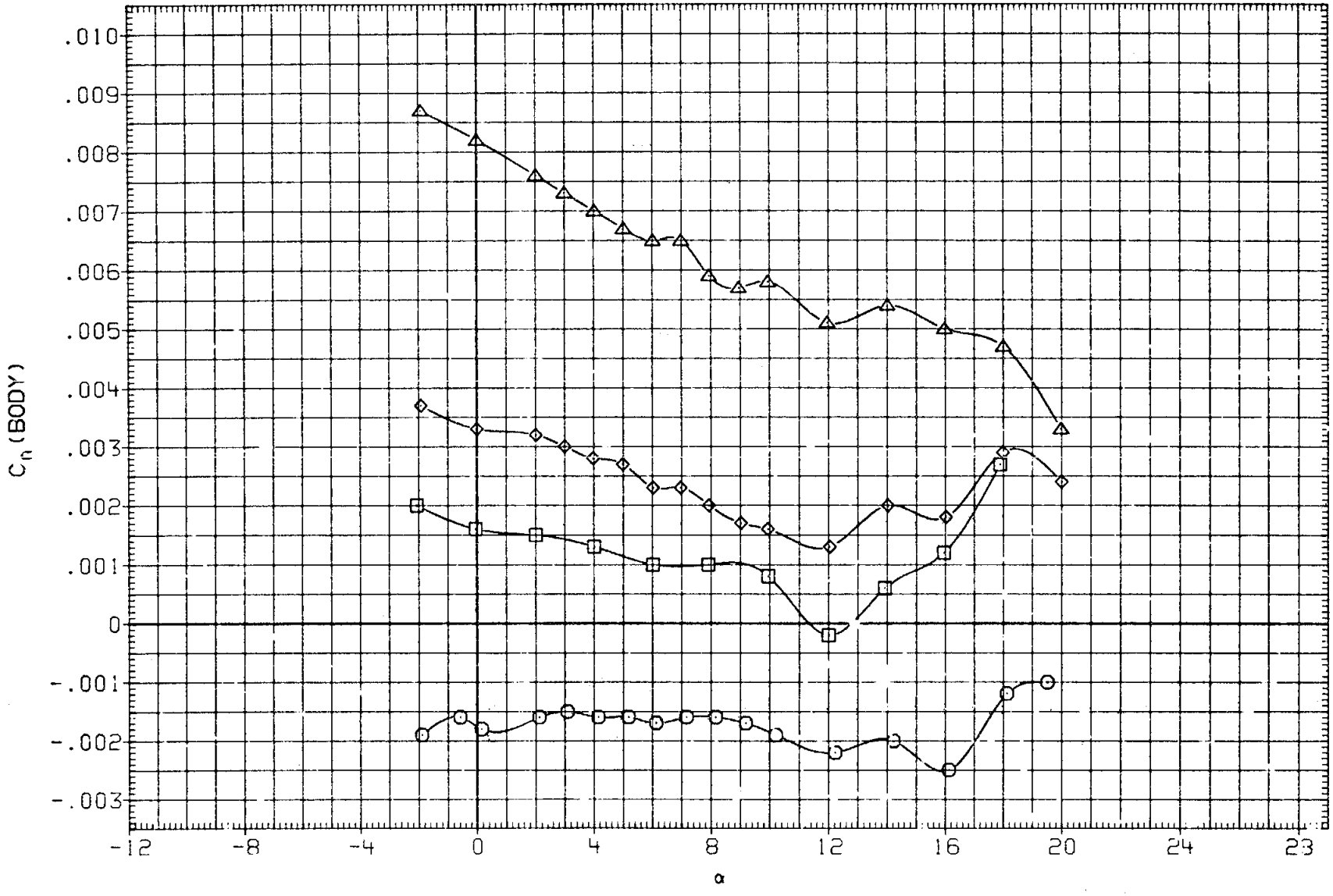

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPOBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B227	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B131	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	275.0000	IN. ZO
SCALE	.0150	

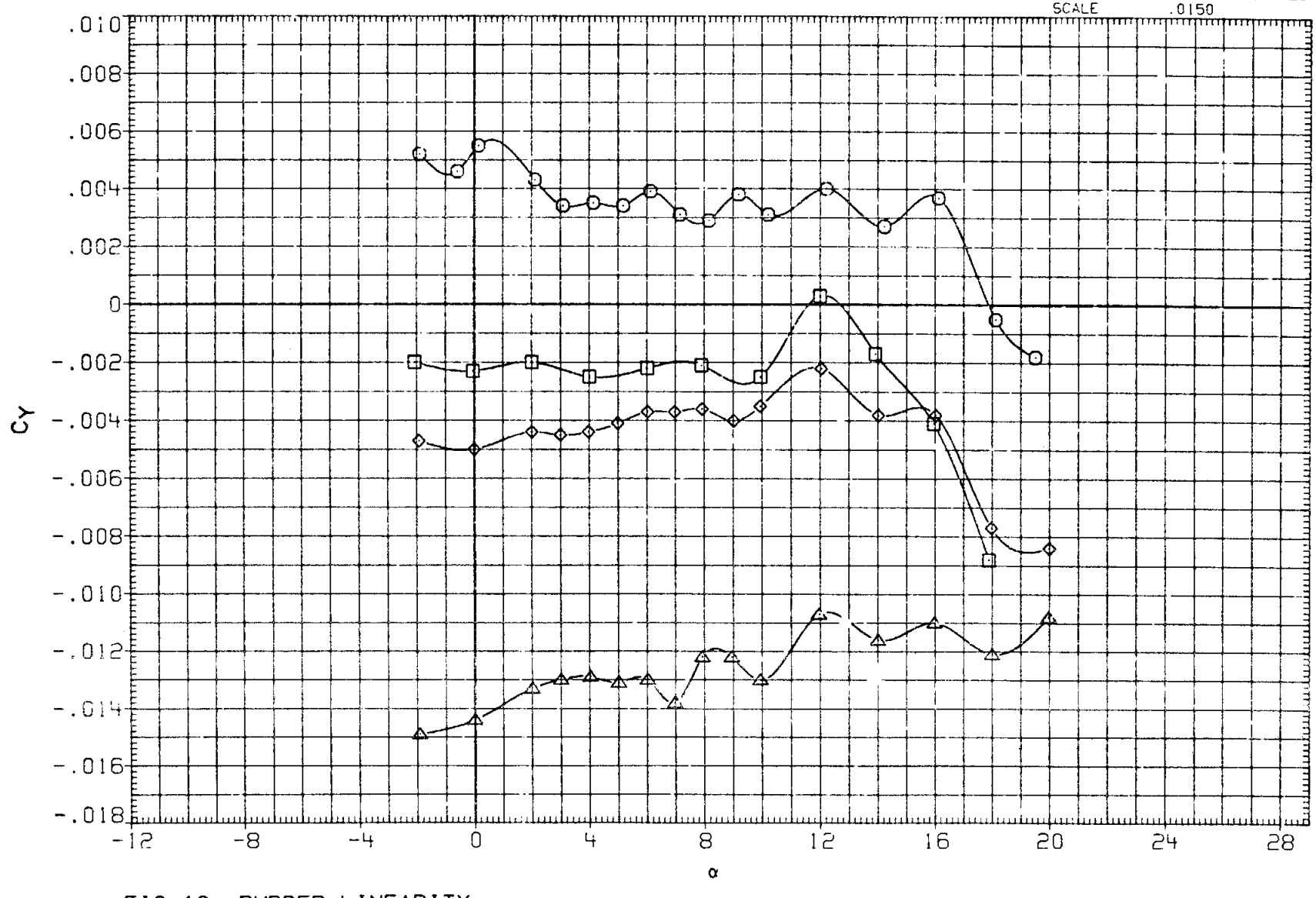

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

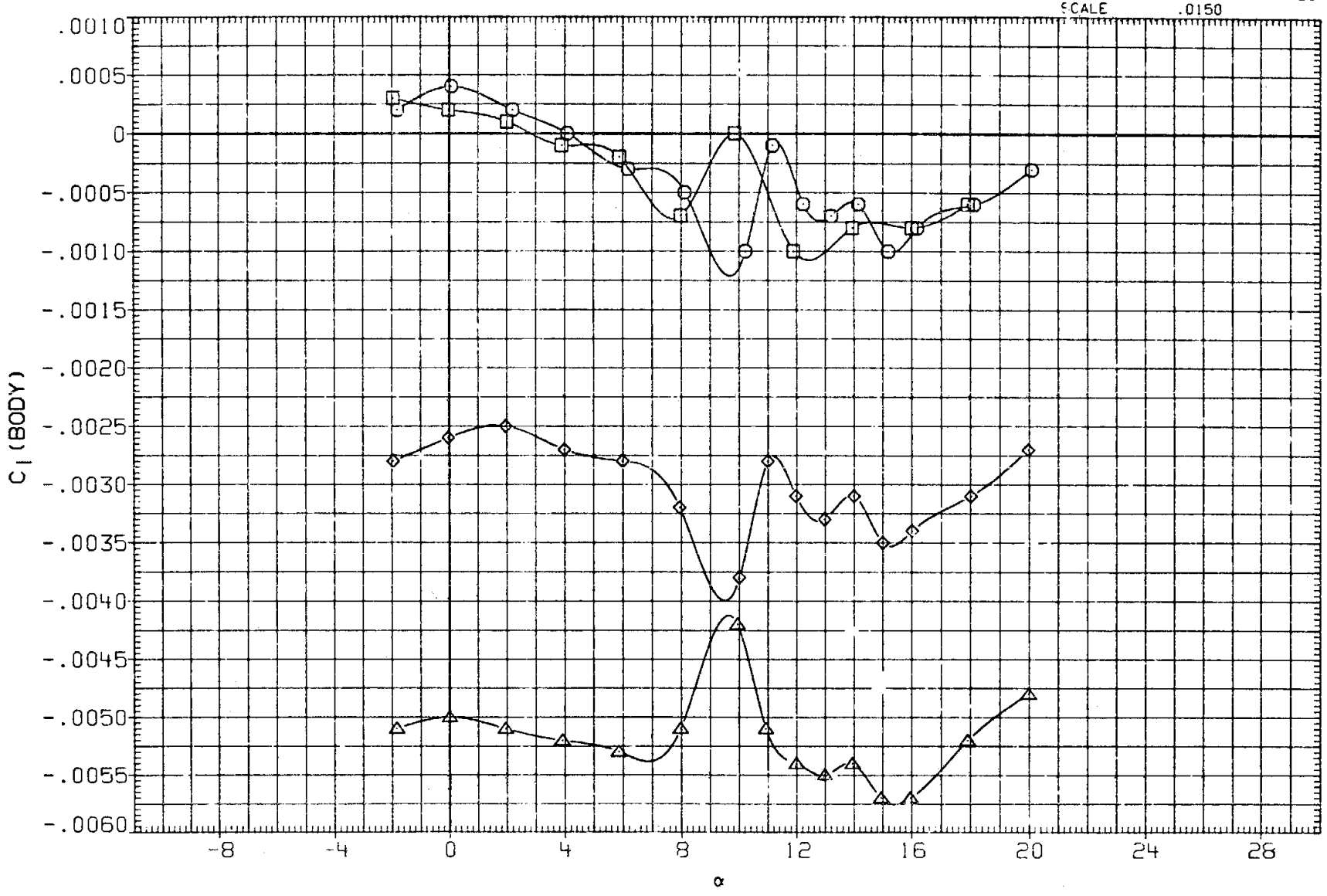

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

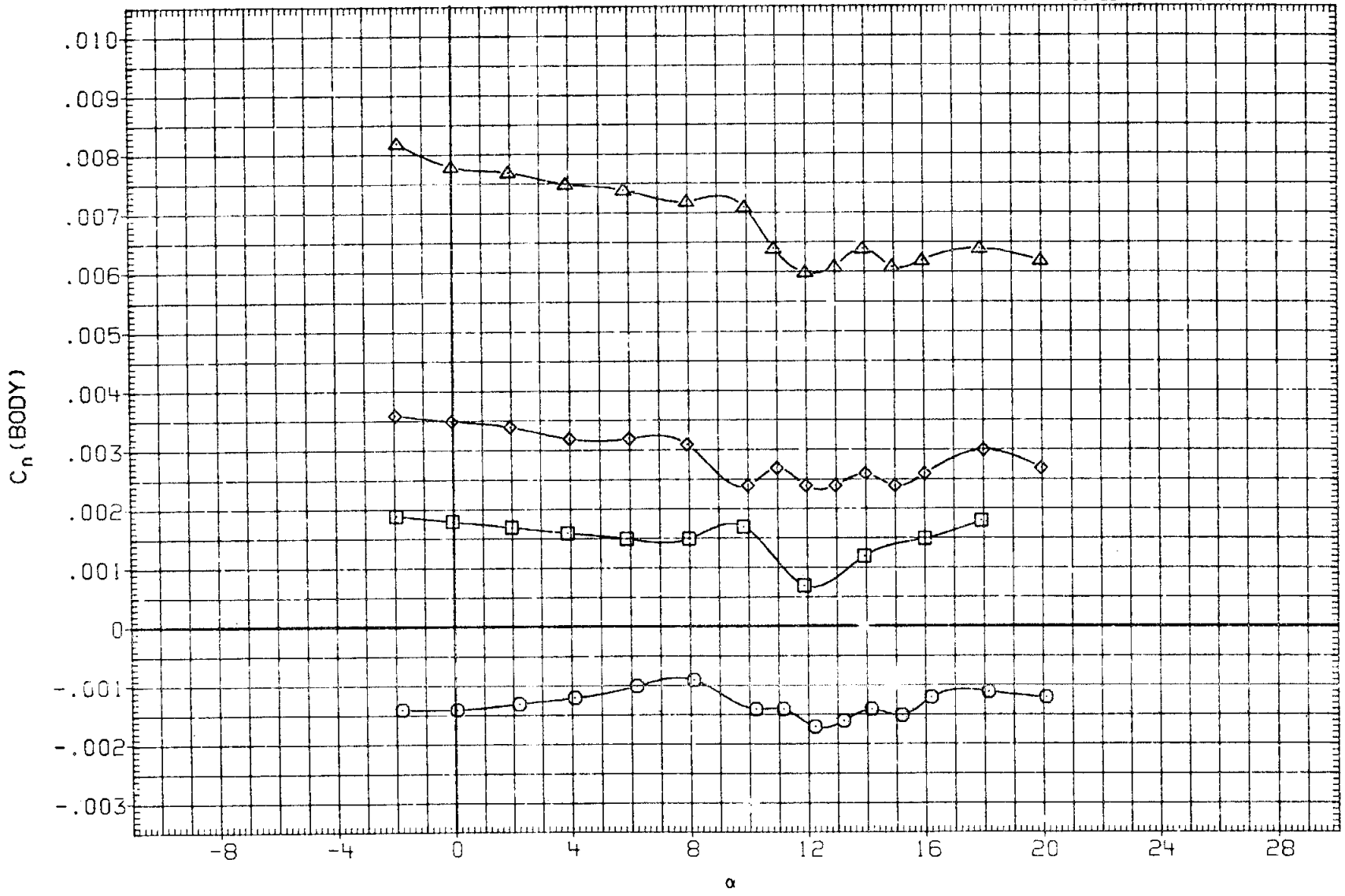

FIG.10 RUDDER LINEARITY

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B224	□	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B127	◇	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

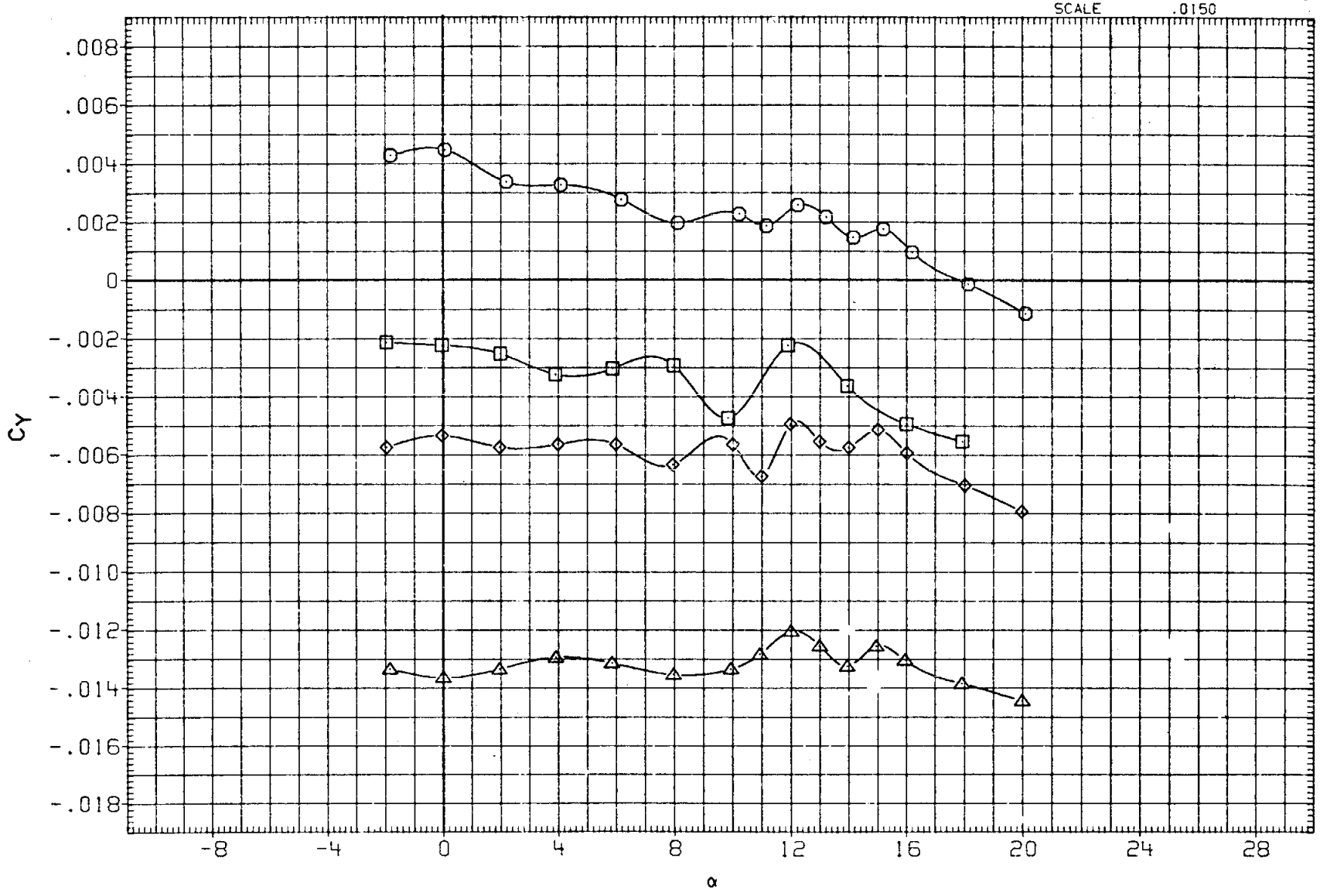

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B216	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B062	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B042	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

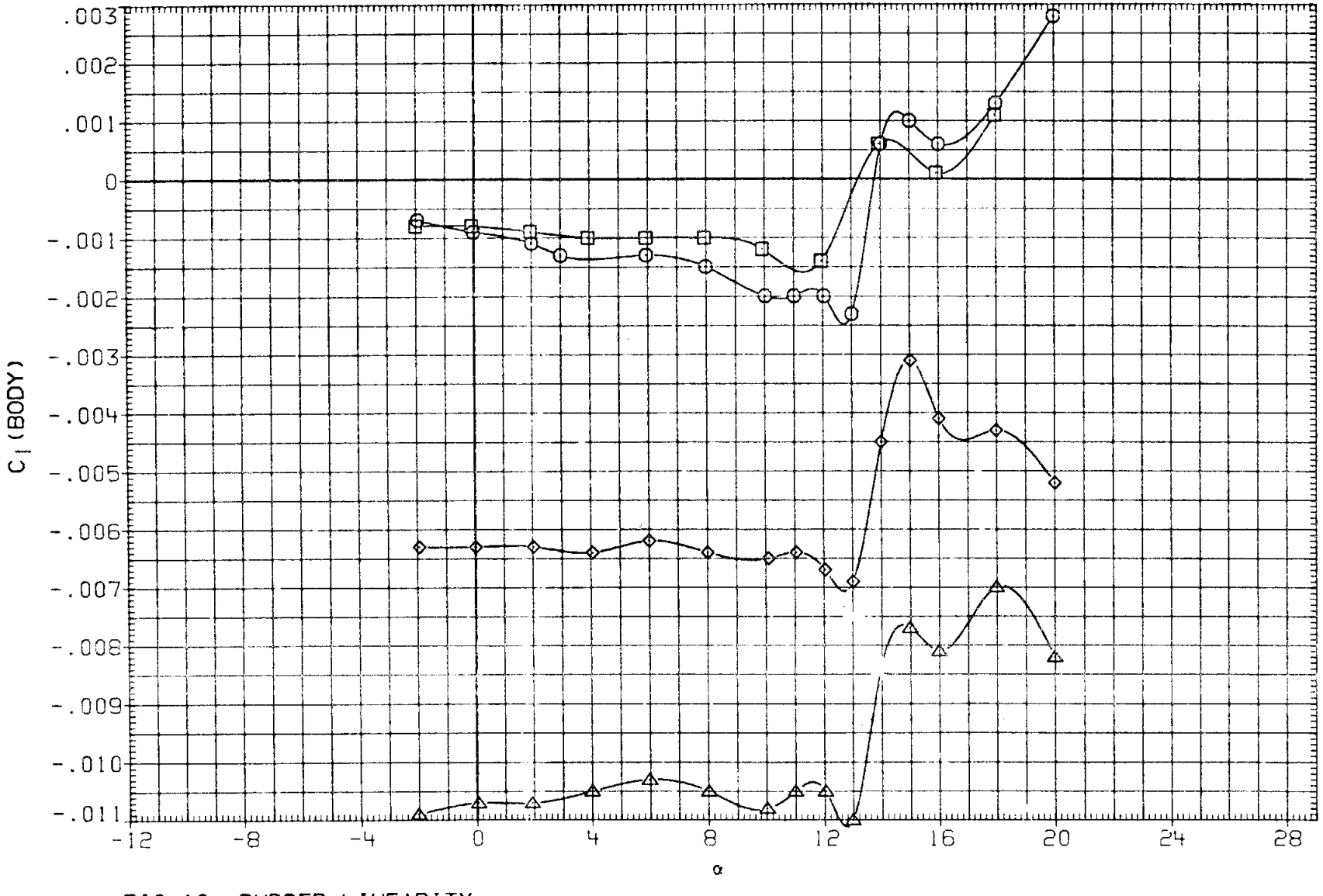

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28216	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R28062	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R28042	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

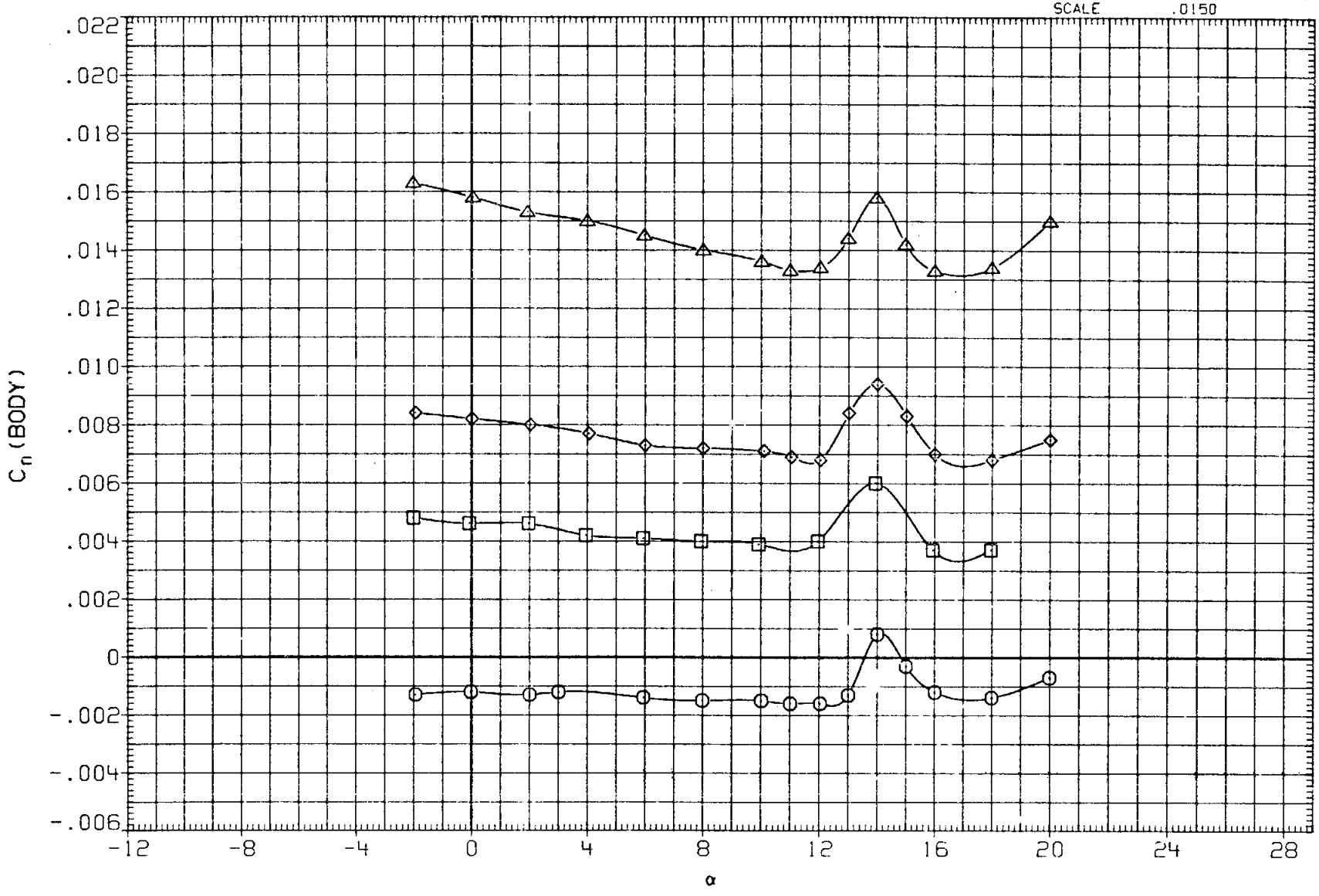

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B216	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B062	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B042	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

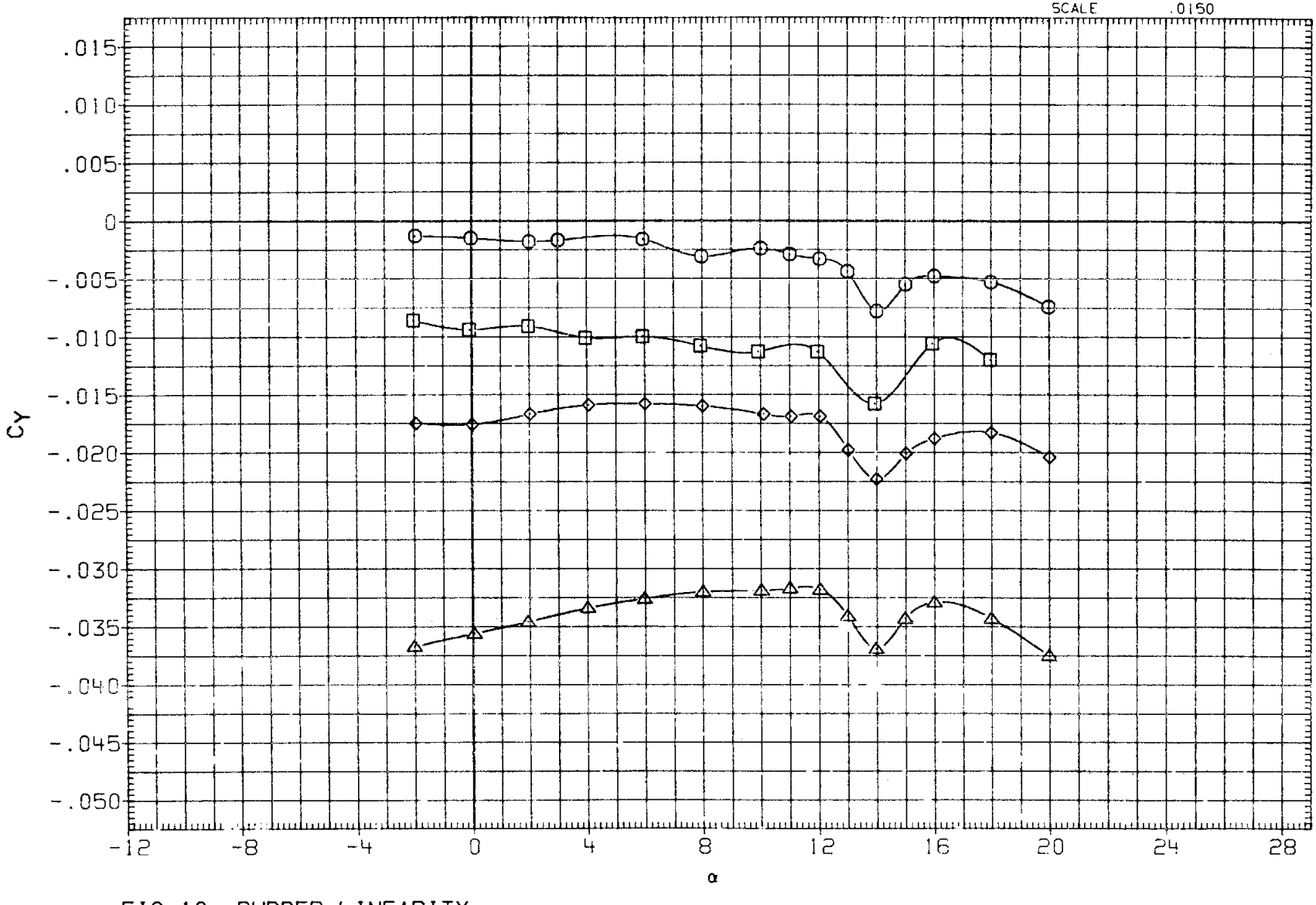

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28219	□	ARC 200-1 11(LA77) OV101	-2.000	25.000	.000	.000
R28065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R28047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

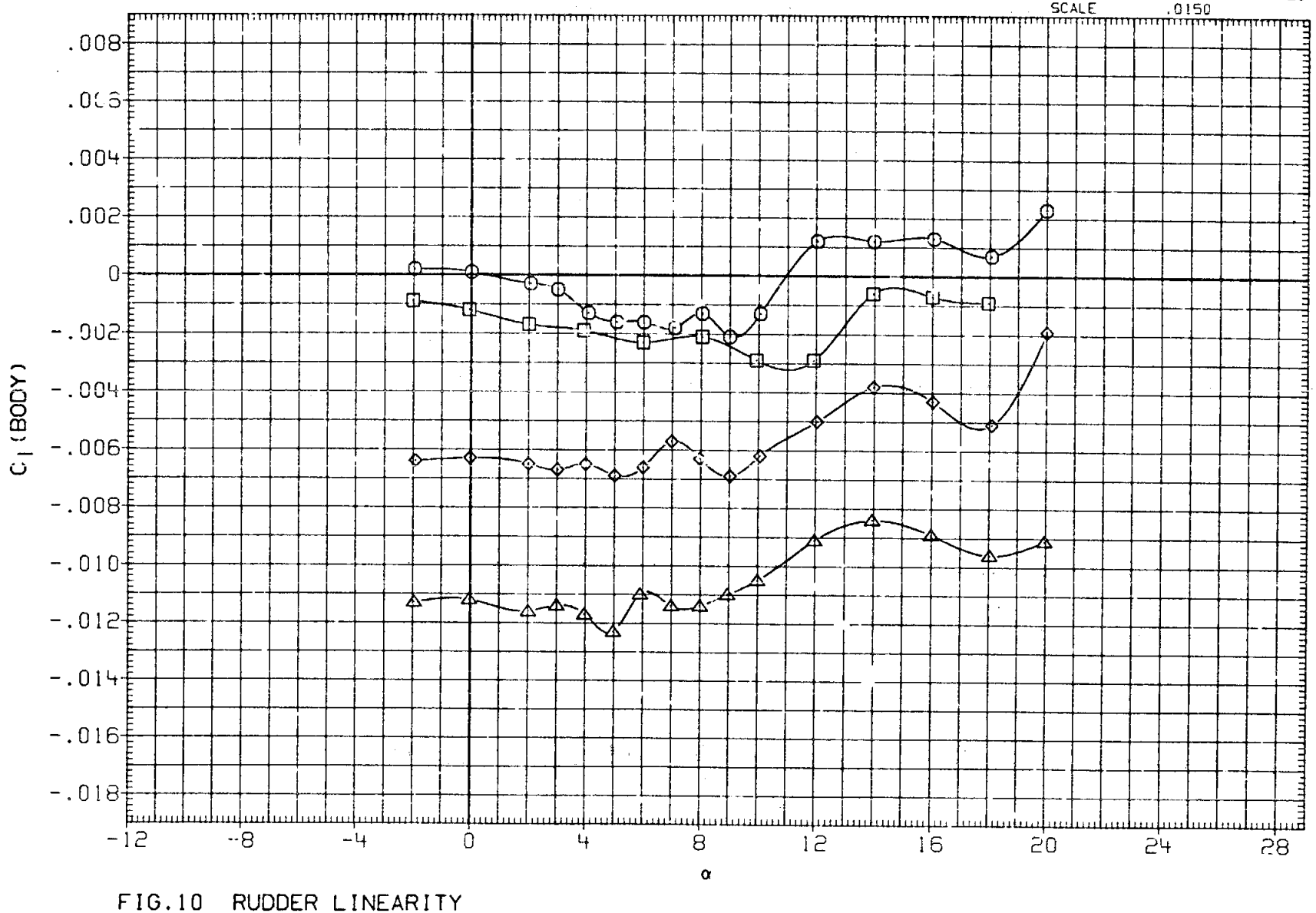

FIG.10 RUDDER LINEARITY

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

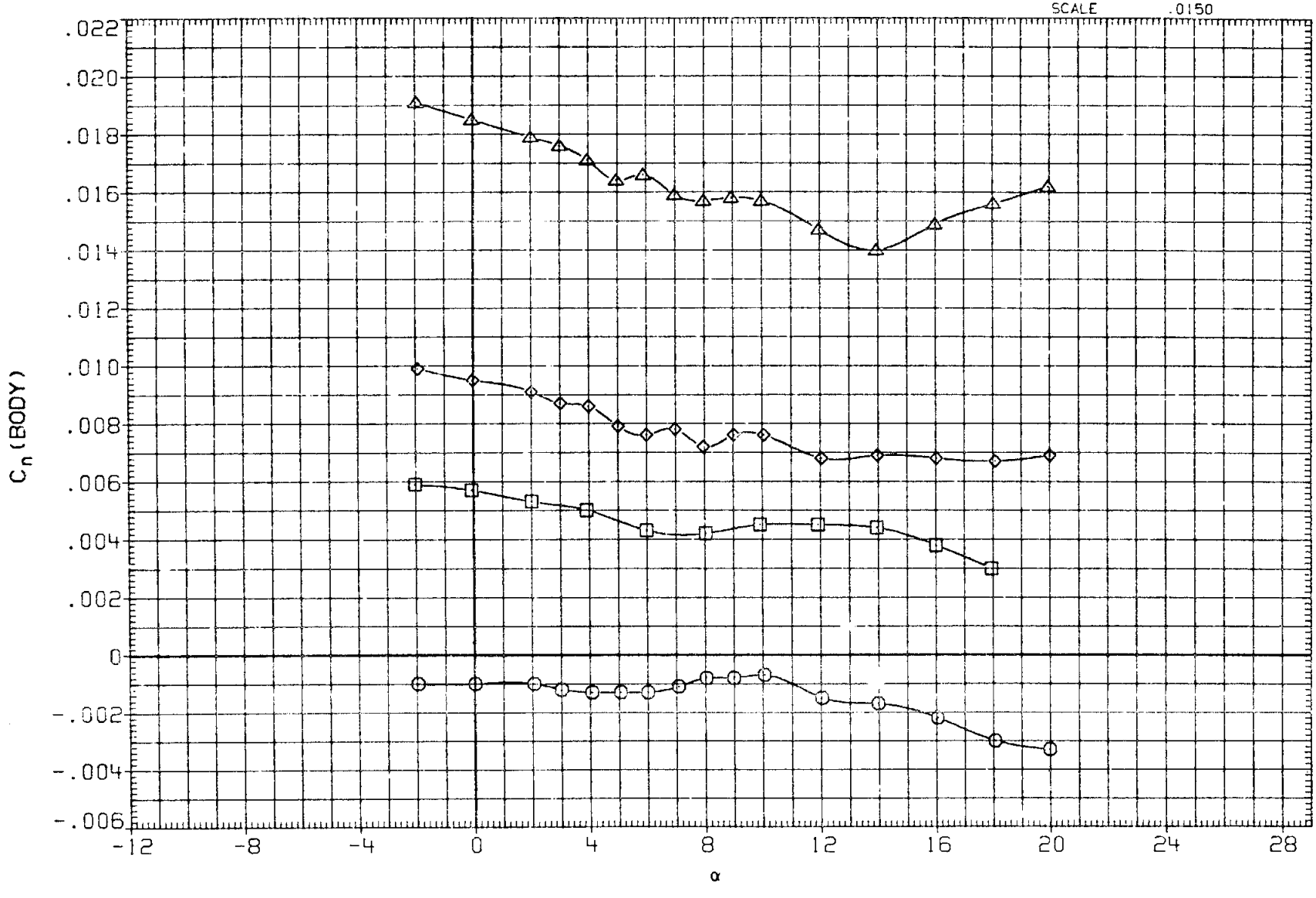

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

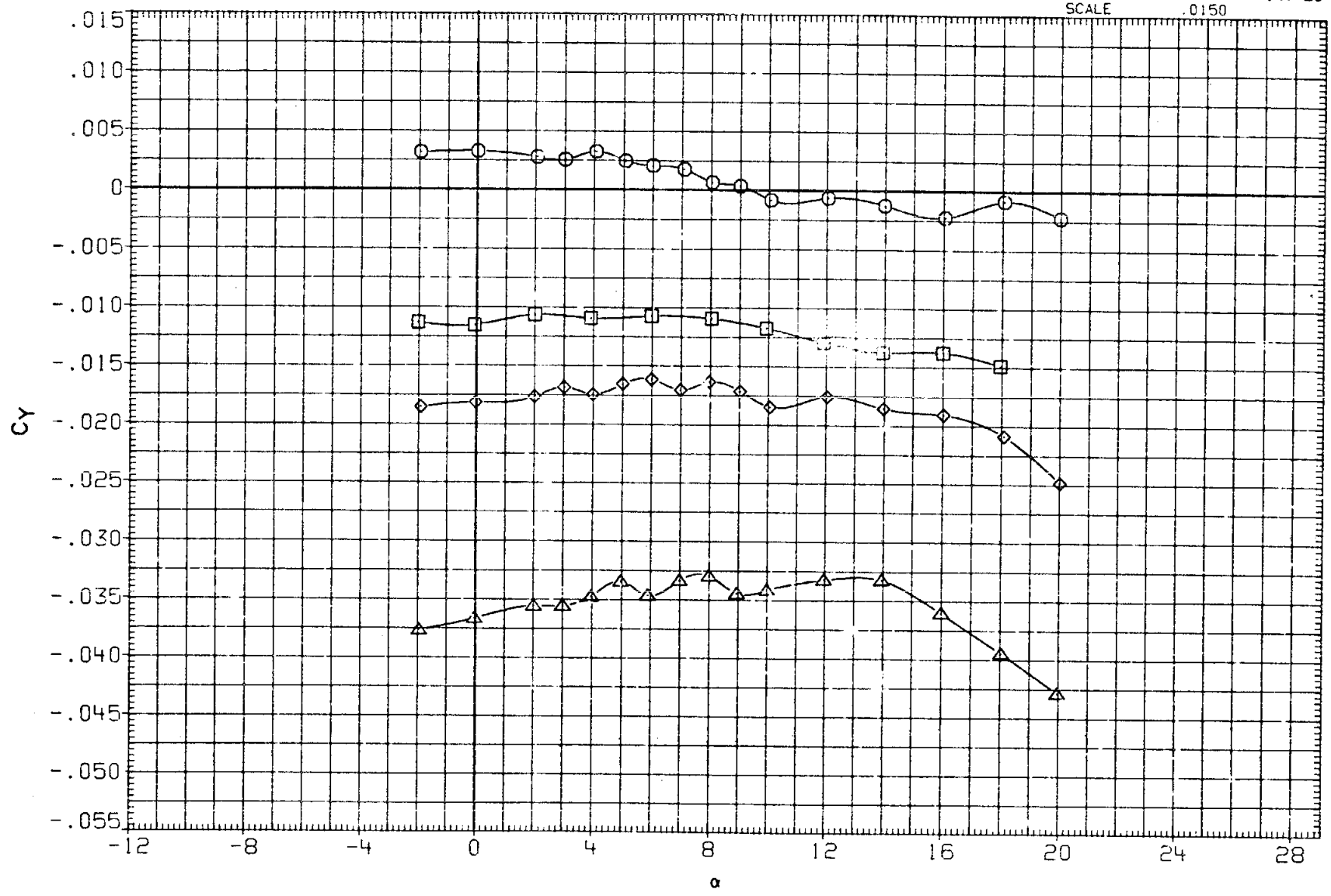

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

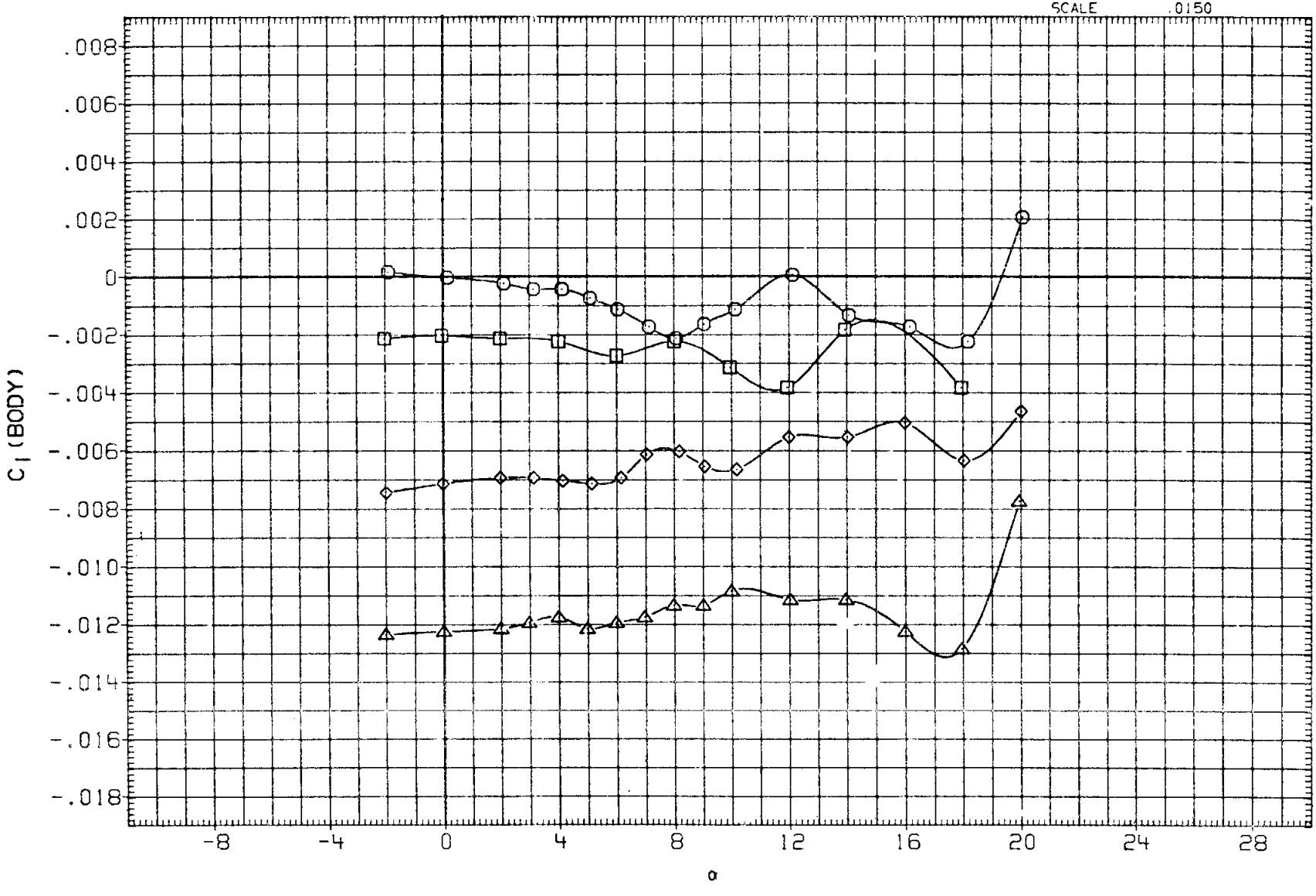

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

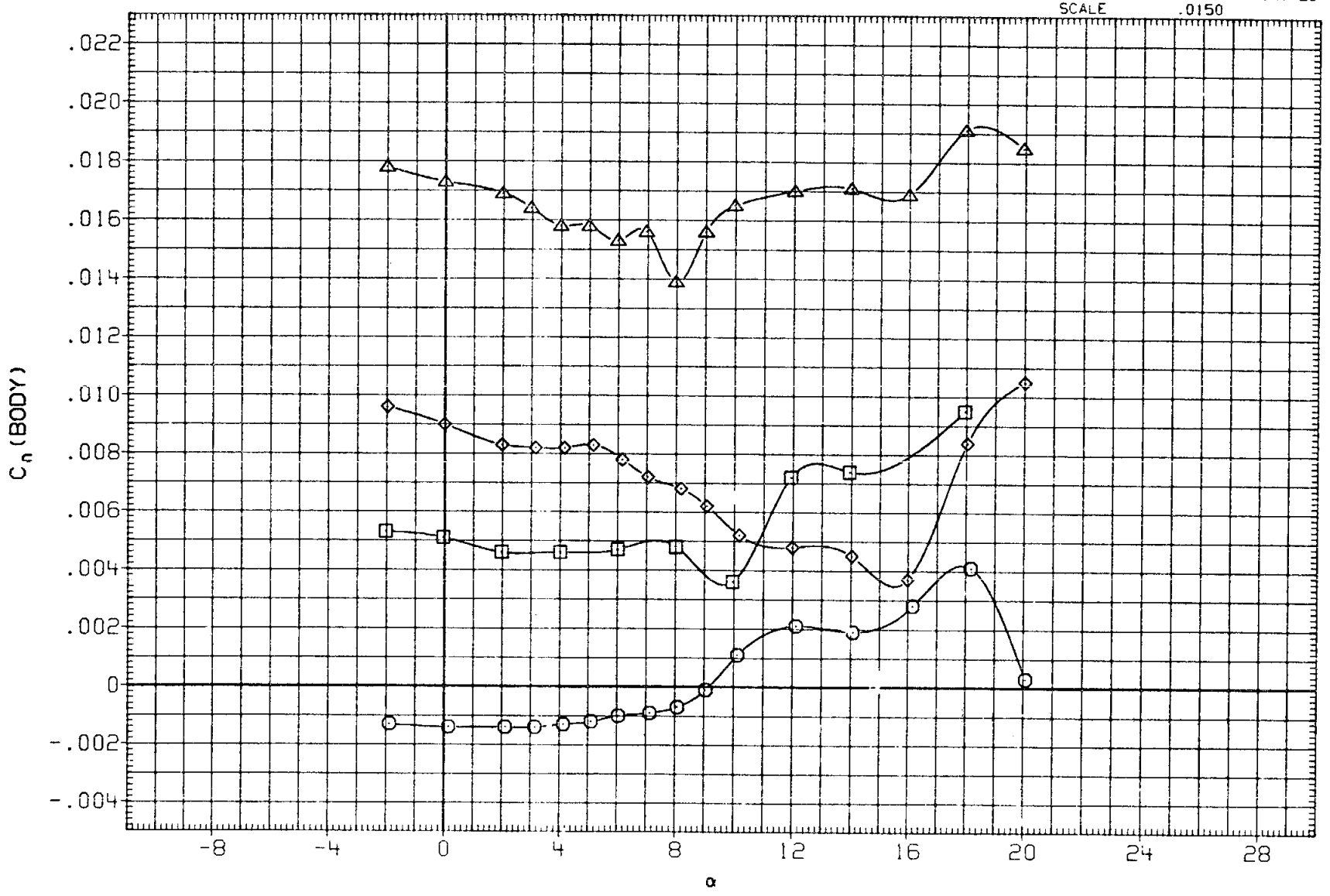

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B065	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

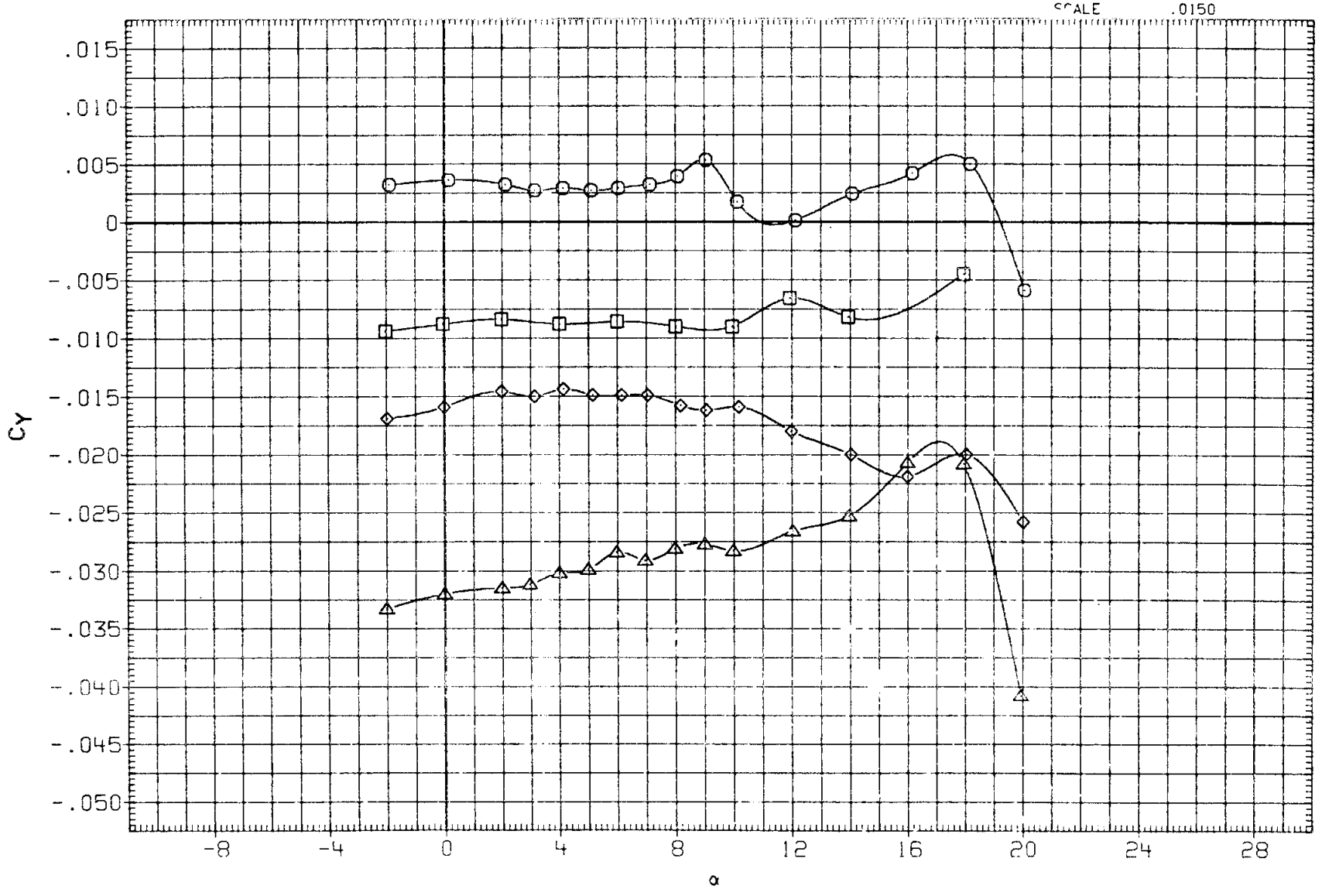

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B075	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

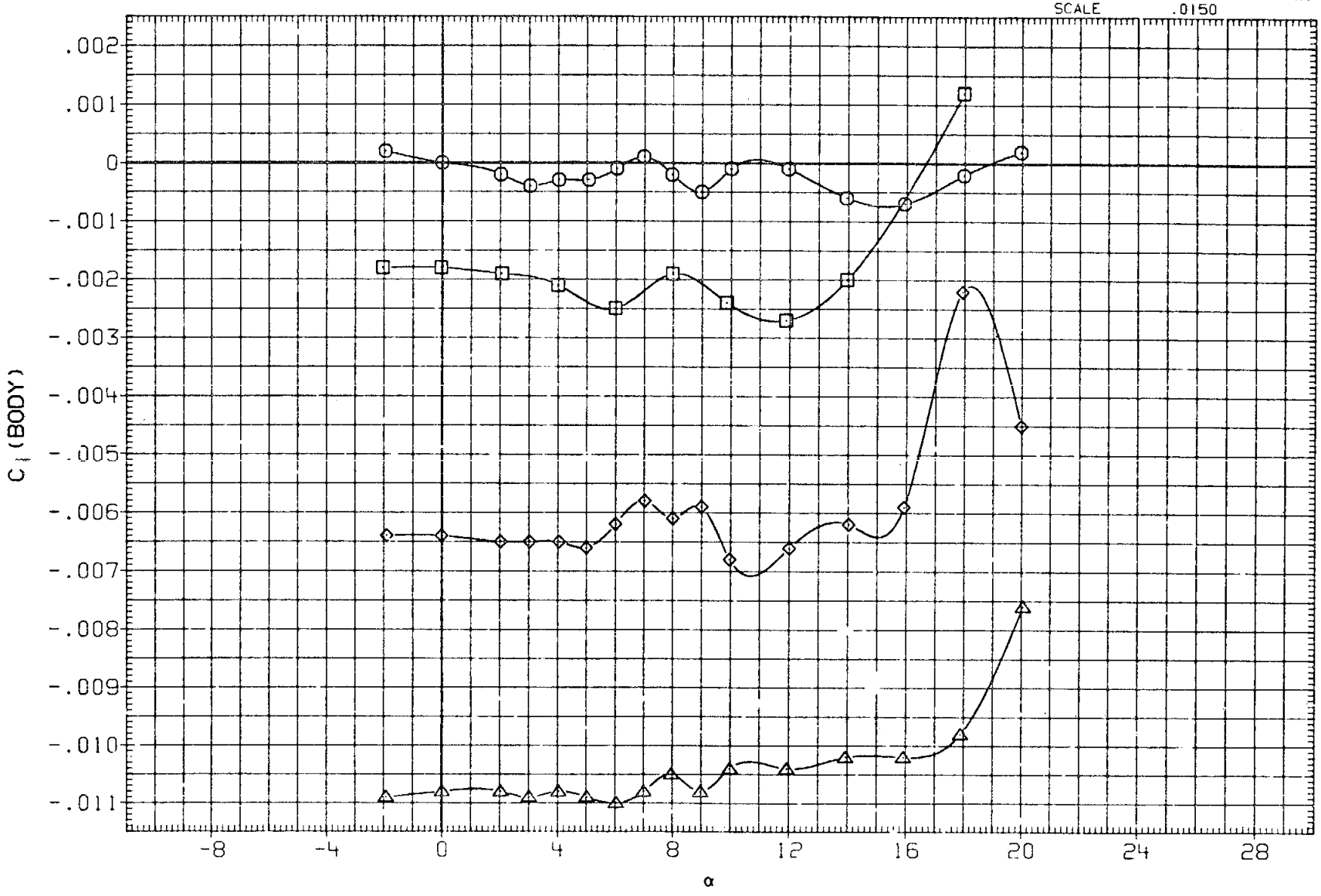

FIG.10 RUDDER LINEARITY

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPOBRK	BETA	DFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B075	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

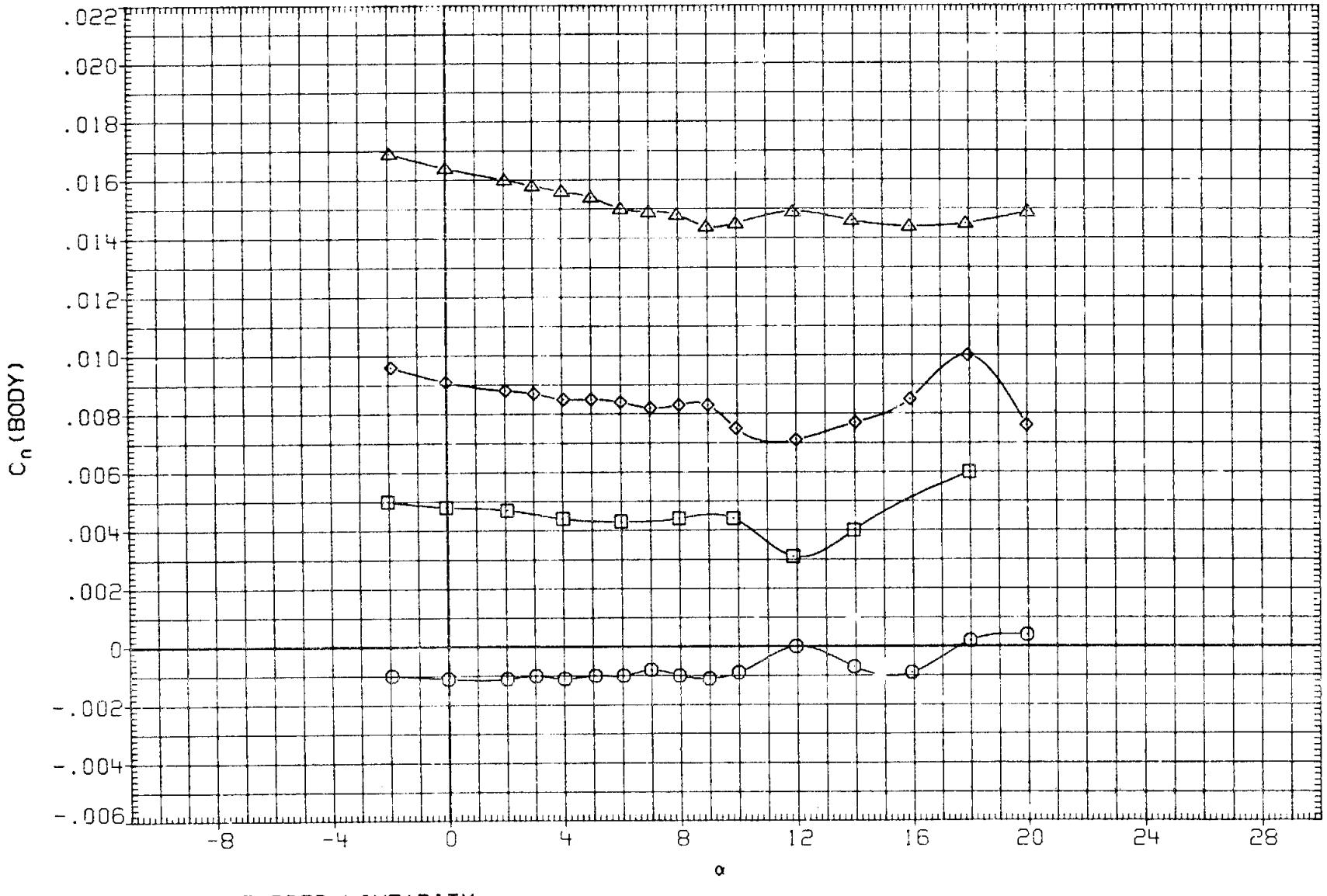

FIG.10 RUDDER LINEARITY

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B219	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B075	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B047	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

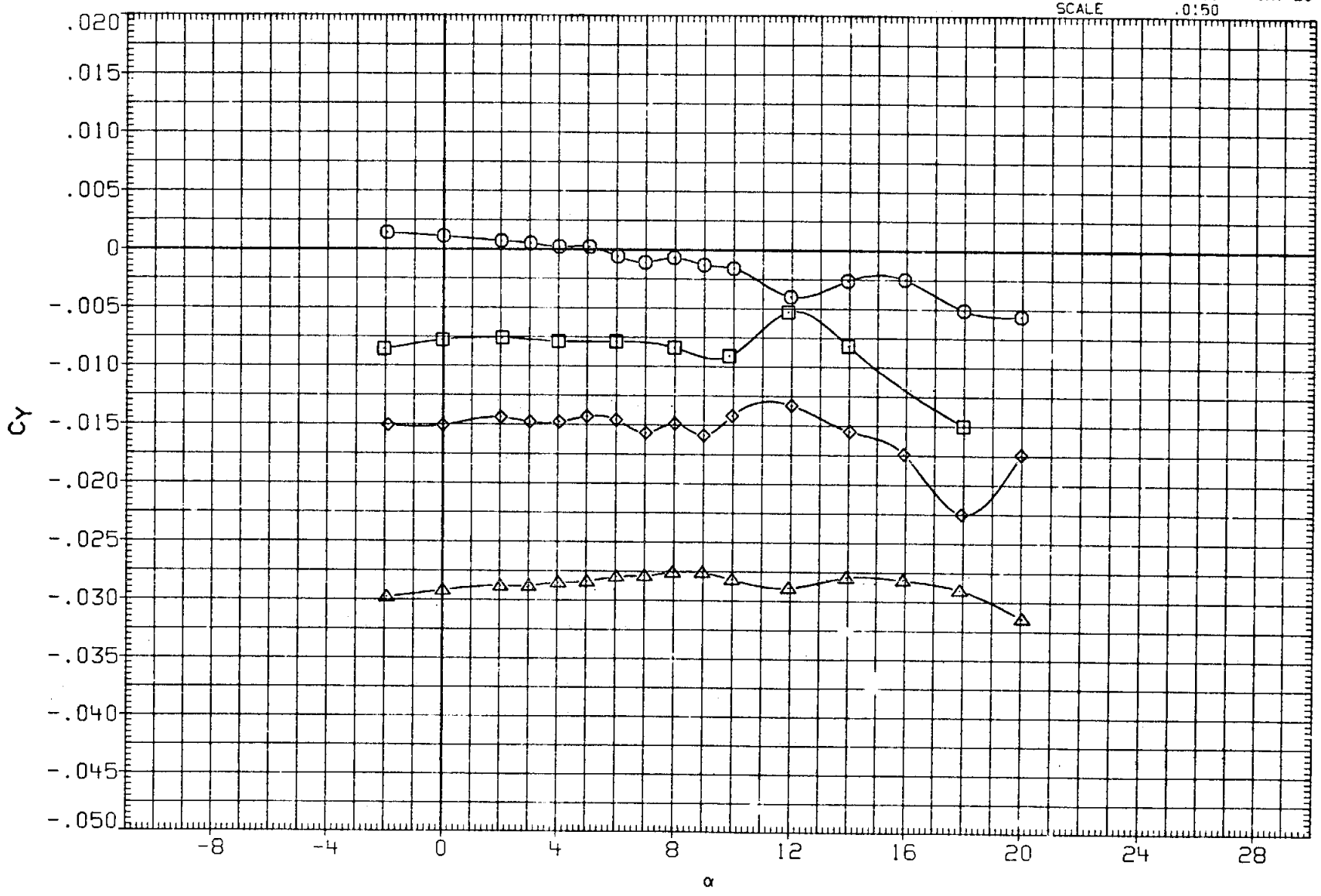

FIG.10 RUDDER LINEARITY

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B216	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R2B062	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B039	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

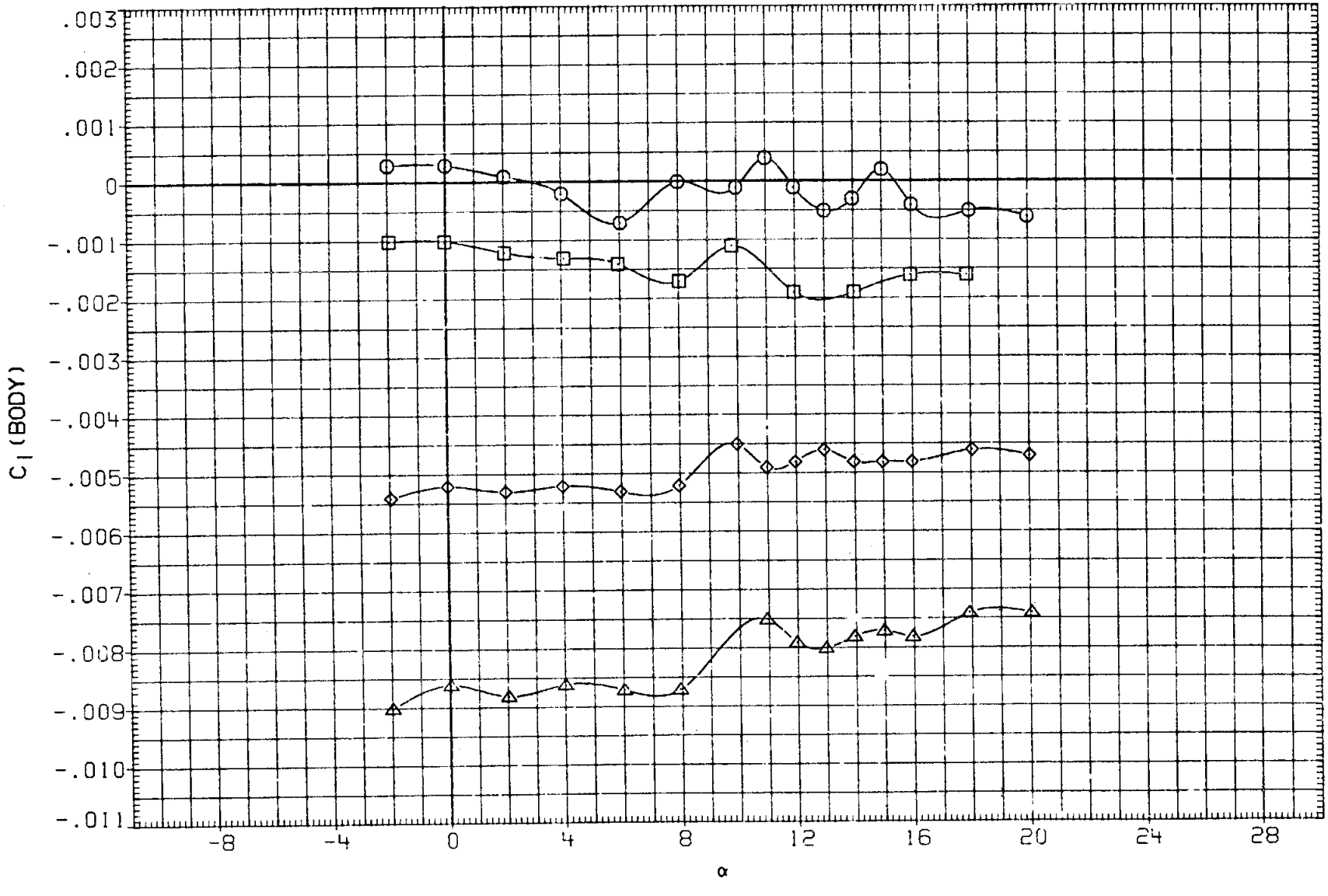

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B001	○	ARC 200-1 11(LA77) OV101
R2B216	□	ARC 200-1 11(LA77) OV101
R2B062	◇	ARC 200-1 11(LA77) OV101
R2B039	△	ARC 200-1 11(LA77) OV101

RUDDER	SPDBRK	BETA	BDFLAP
.000	25.000	.000	.000
-3.000	25.000	.000	.000
-5.000	25.000	.000	.000
-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

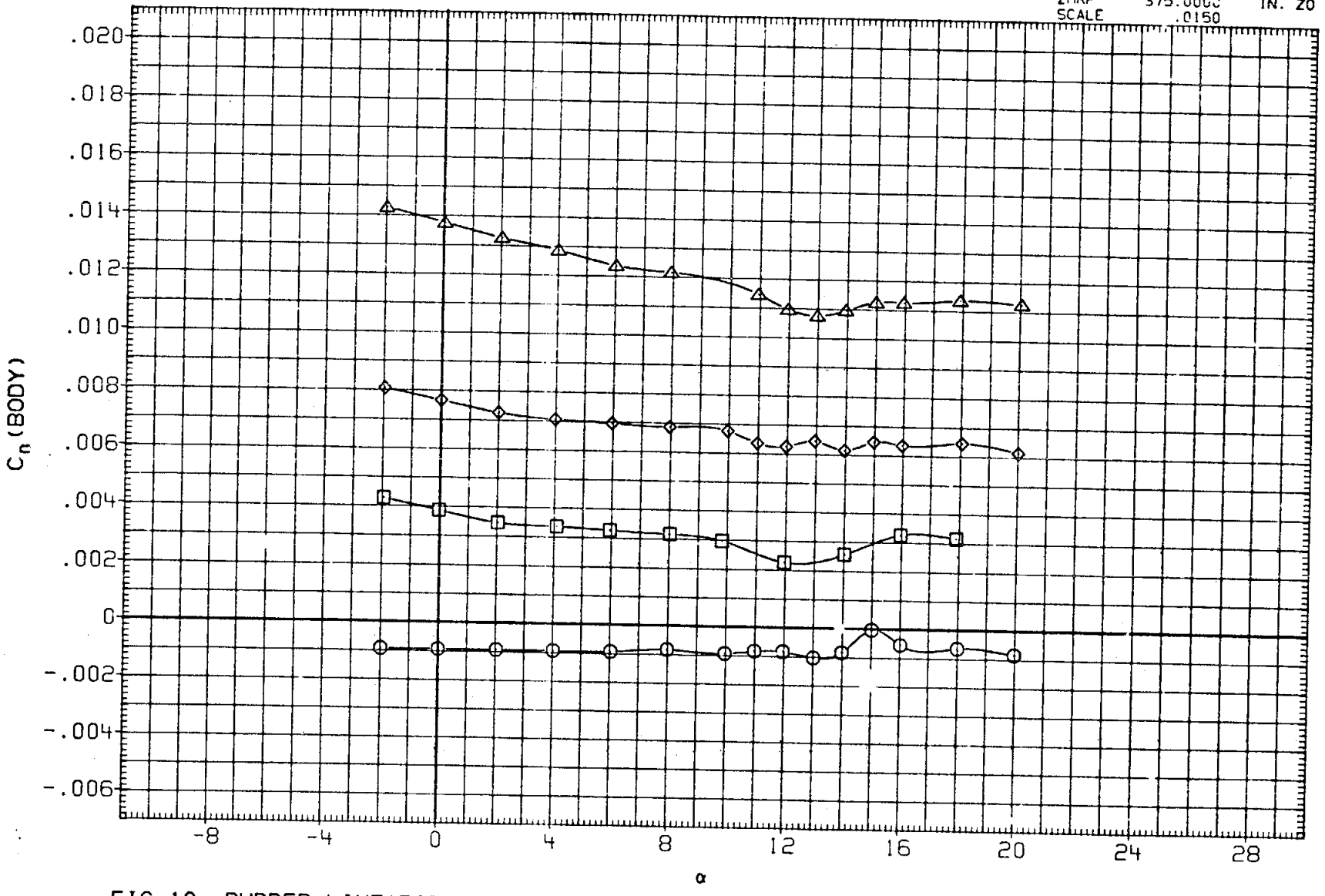

FIG.10 RUDDER LINEARITY

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28216	□	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000
R28062	◇	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R28039	△	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

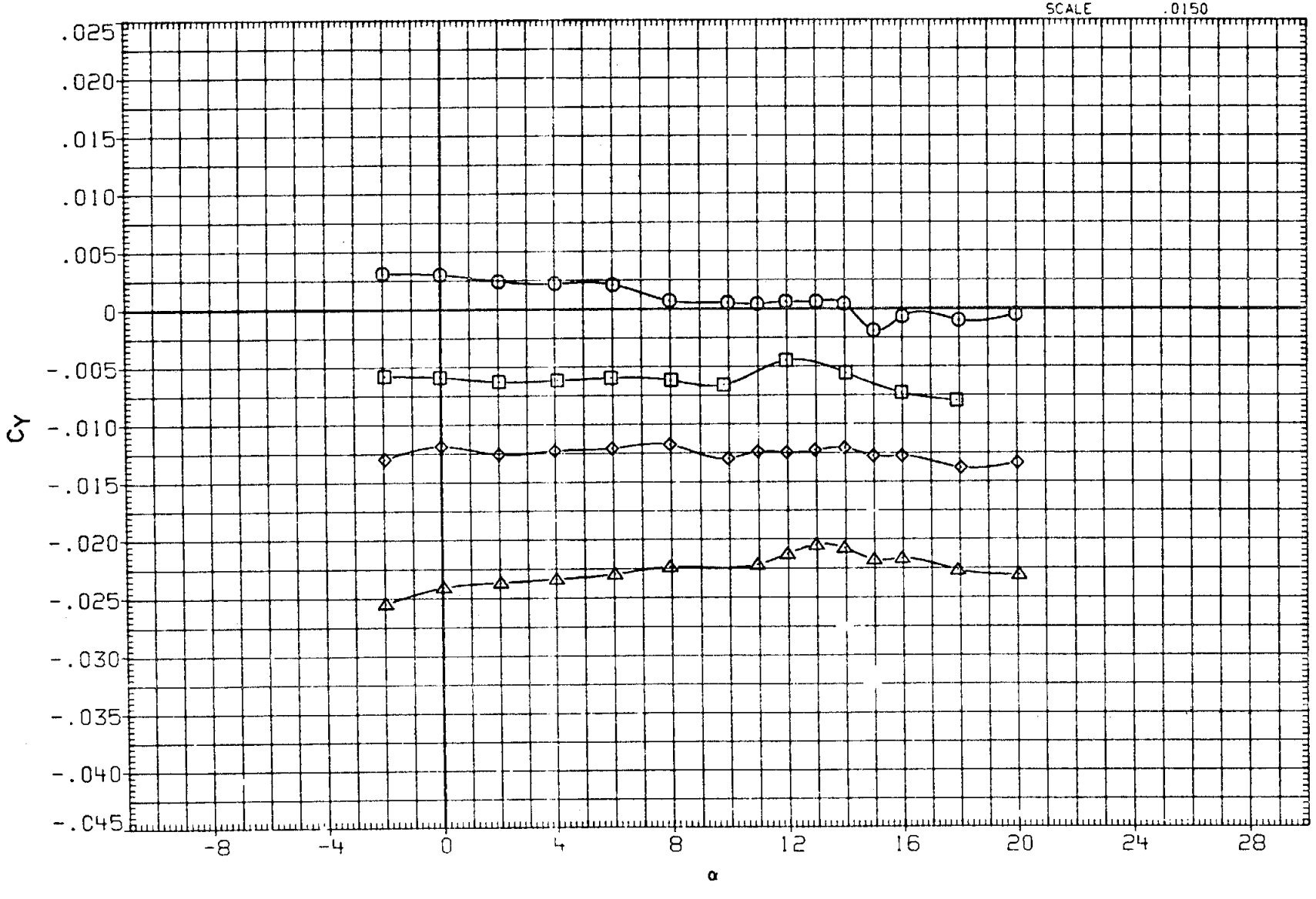

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B080	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

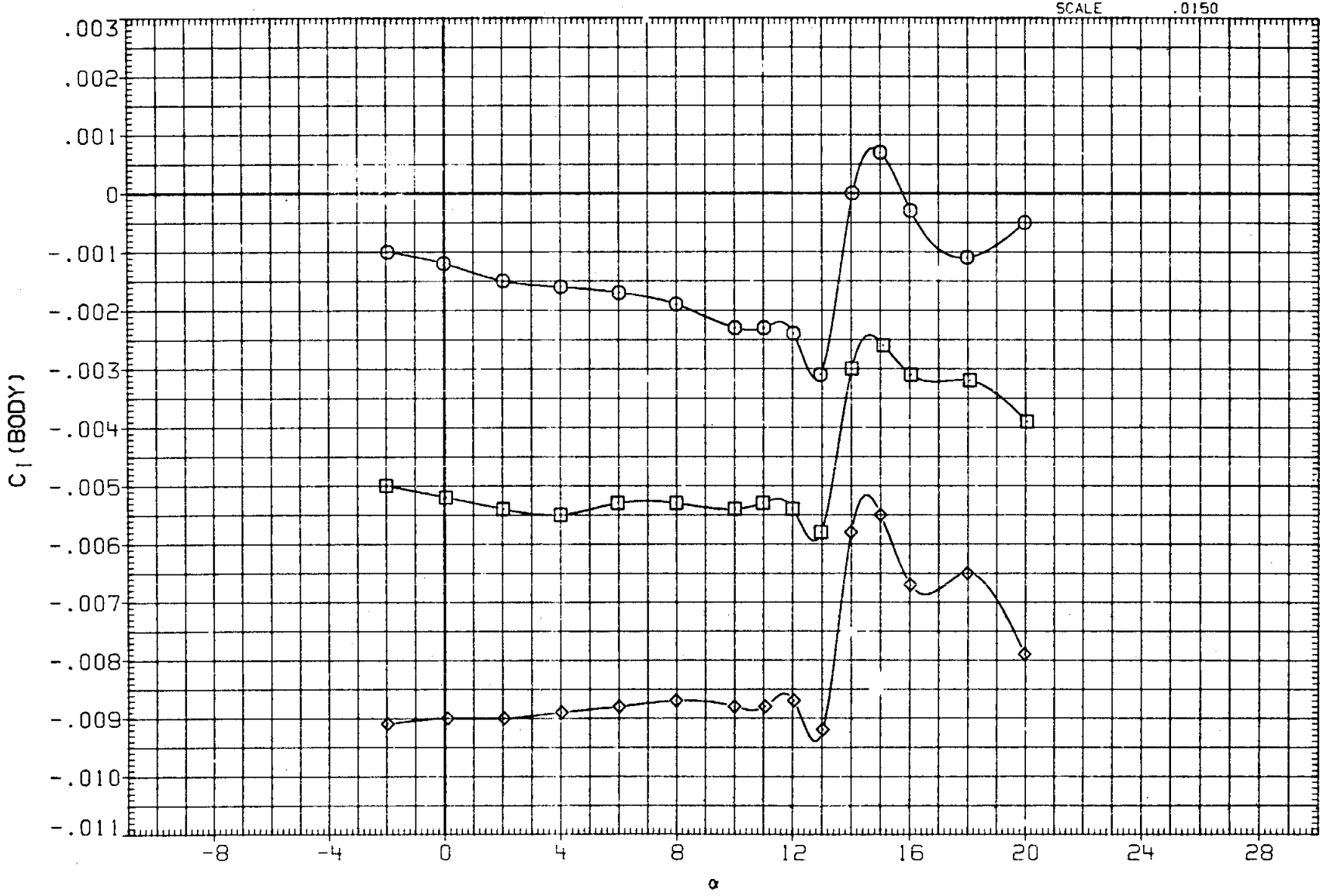

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B080	○	ARC 200-1 11(LA77) OV101
R2B135	□	ARC 200-1 11(LA77) OV101
R2B093	◇	ARC 200-1 11(LA77) OV101

RUDDER	SPDBRK	BETA	BDFLAP
.000	55.000	.000	.000
-5.000	55.000	.000	.000
-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

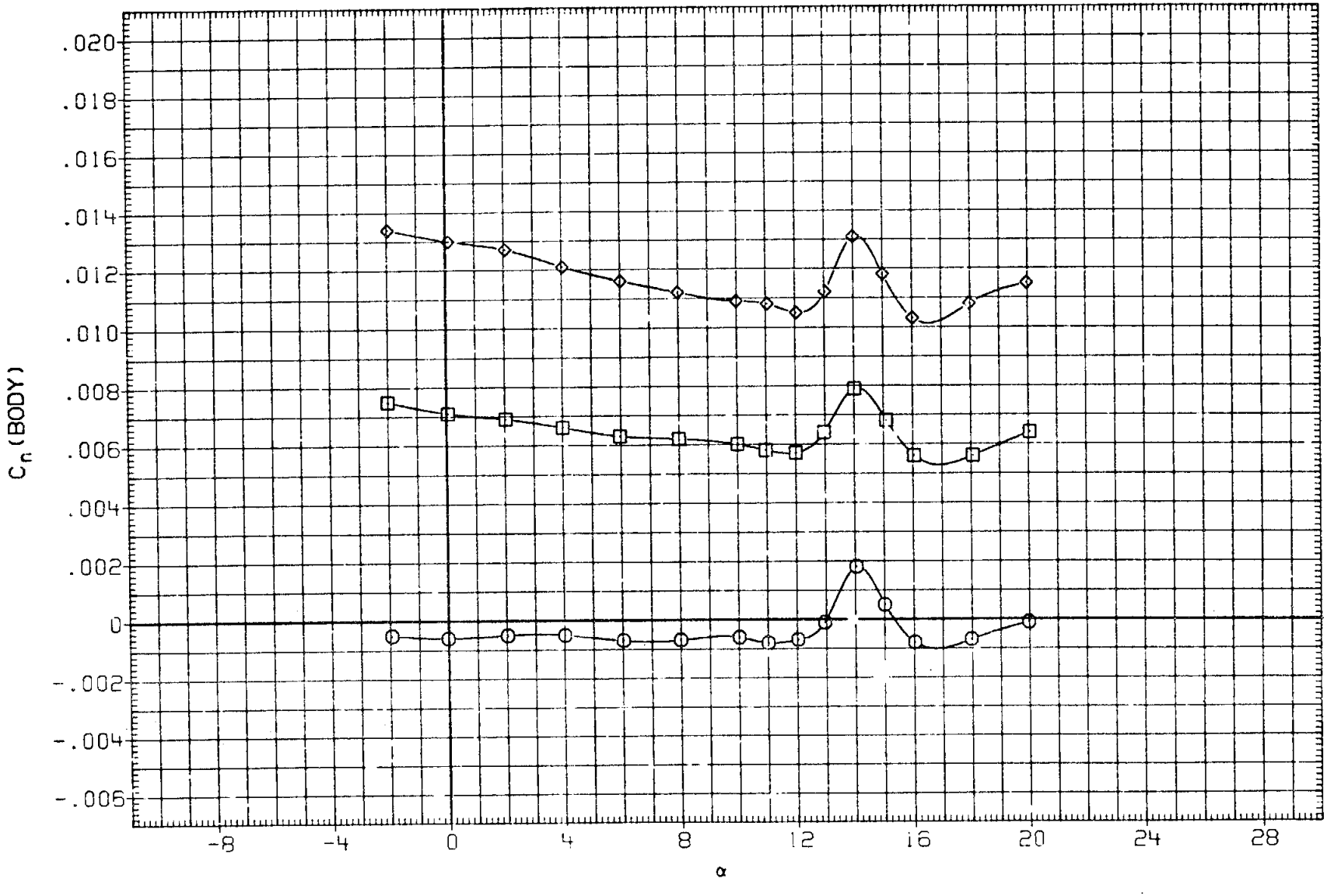

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B080	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

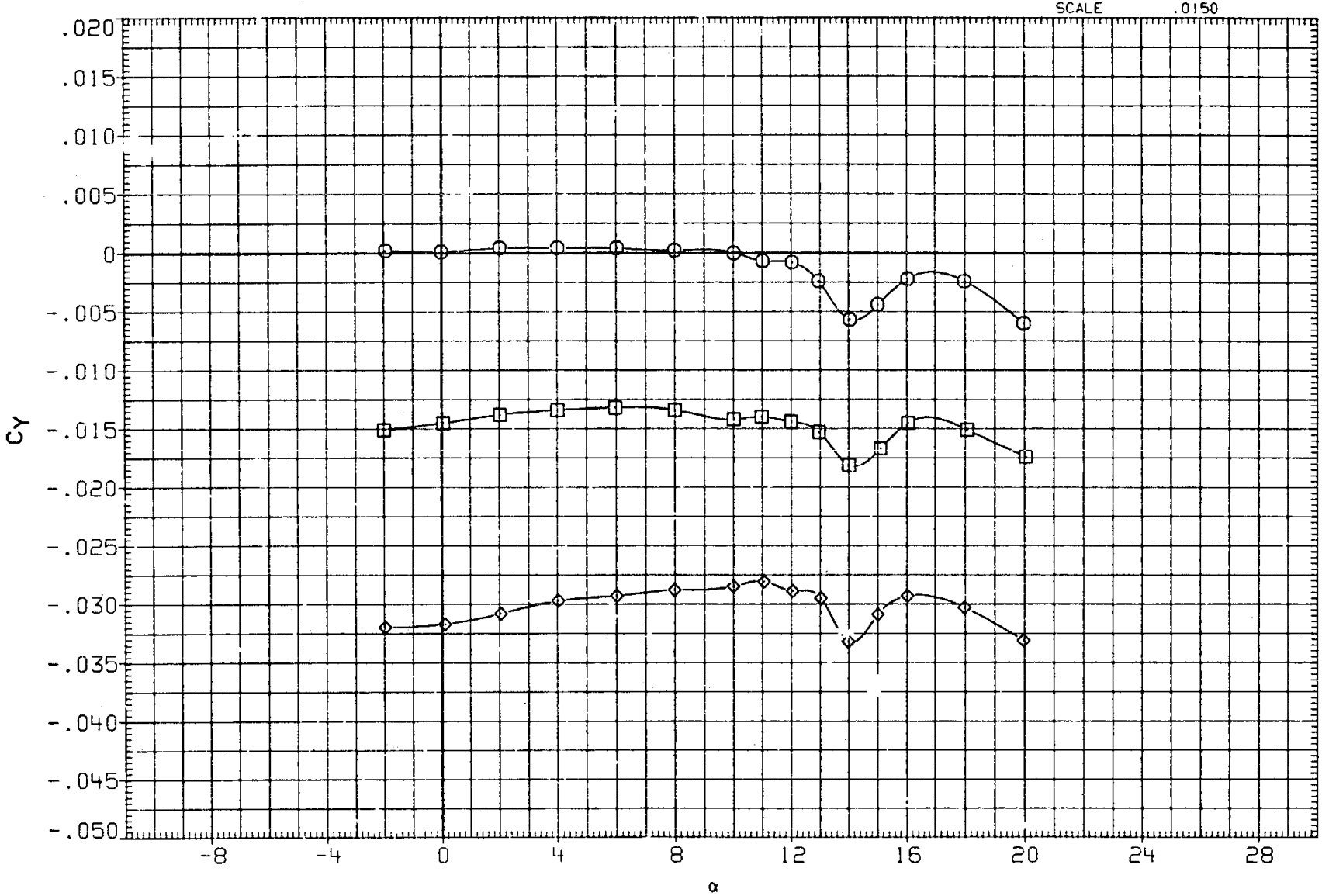

FIG.10 RUDDER LINEARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R28084	○	ARC 200-1 11(LA77) OV101
R28138	□	ARC 200-1 11(LA77) OV101
R28097	◇	ARC 200-1 11(LA77) OV101

RUDDER	SPDBRK	BETA	BDFLAP
.000	55.000	.000	.000
-5.000	55.000	.000	.000
-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

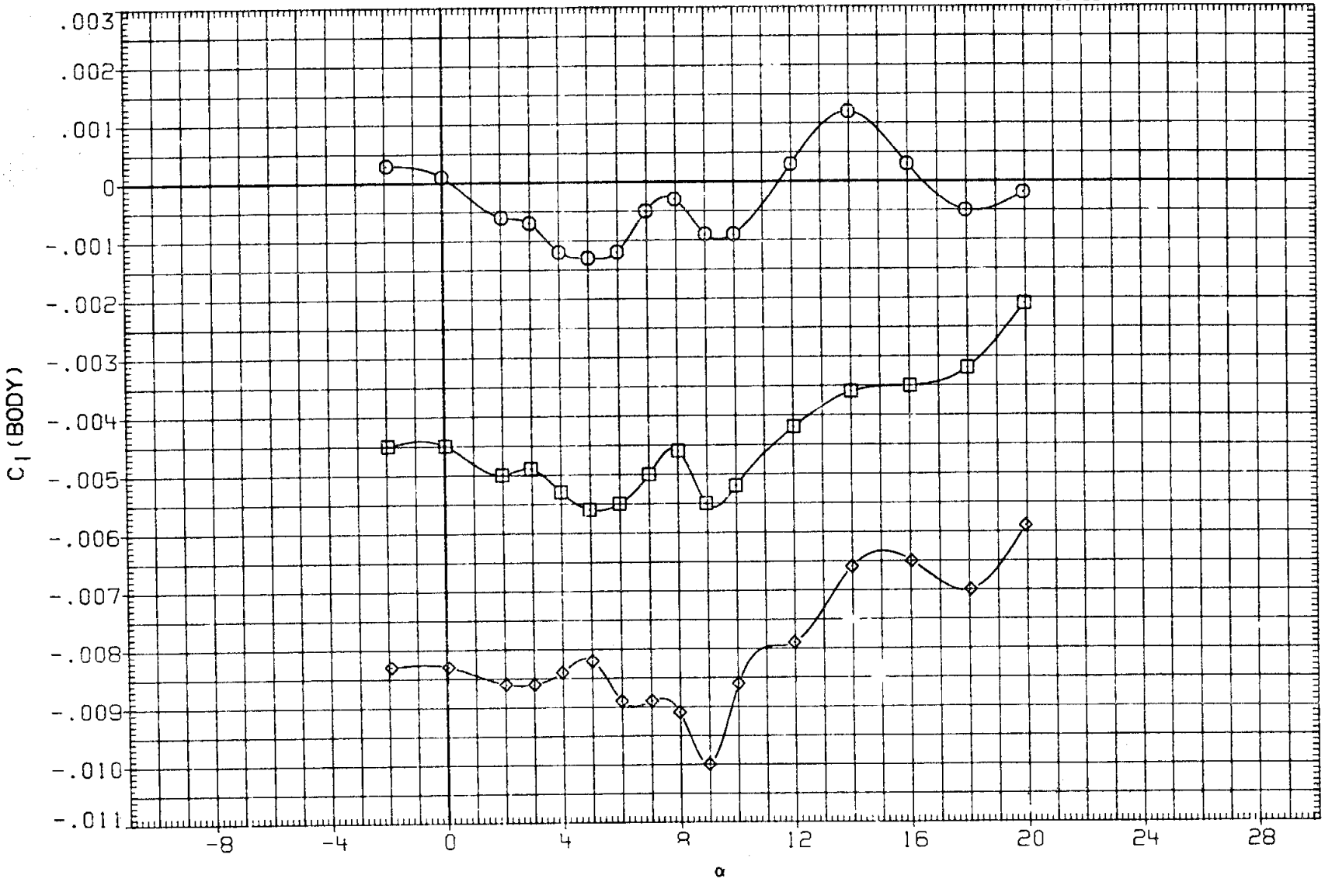

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B084	○	ARC 200-1 !!(LA77) OV101	.000	55.000	.000	.000
R2B138	□	ARC 200-1 !!(LA77) OV101	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 !!(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

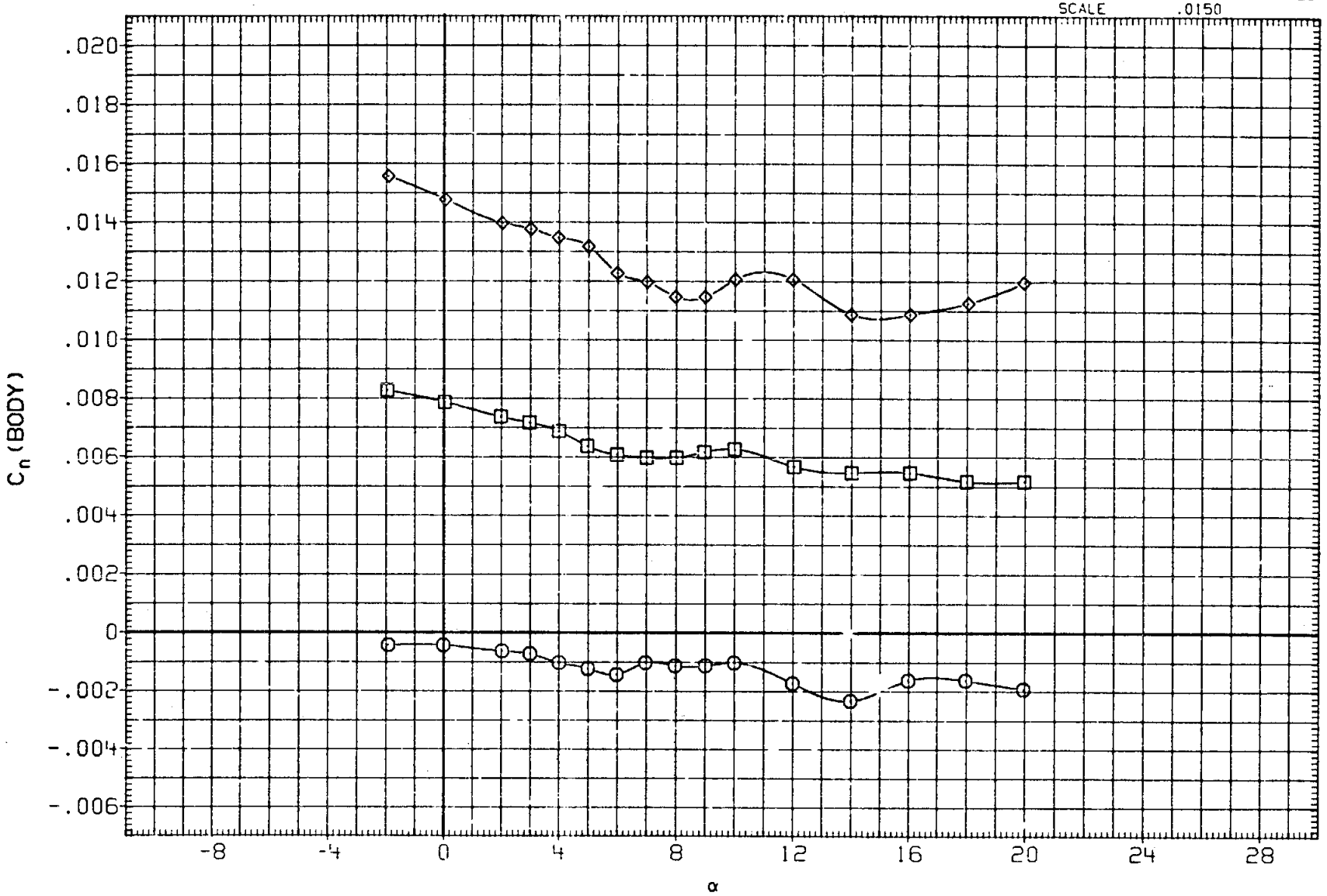

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R28097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

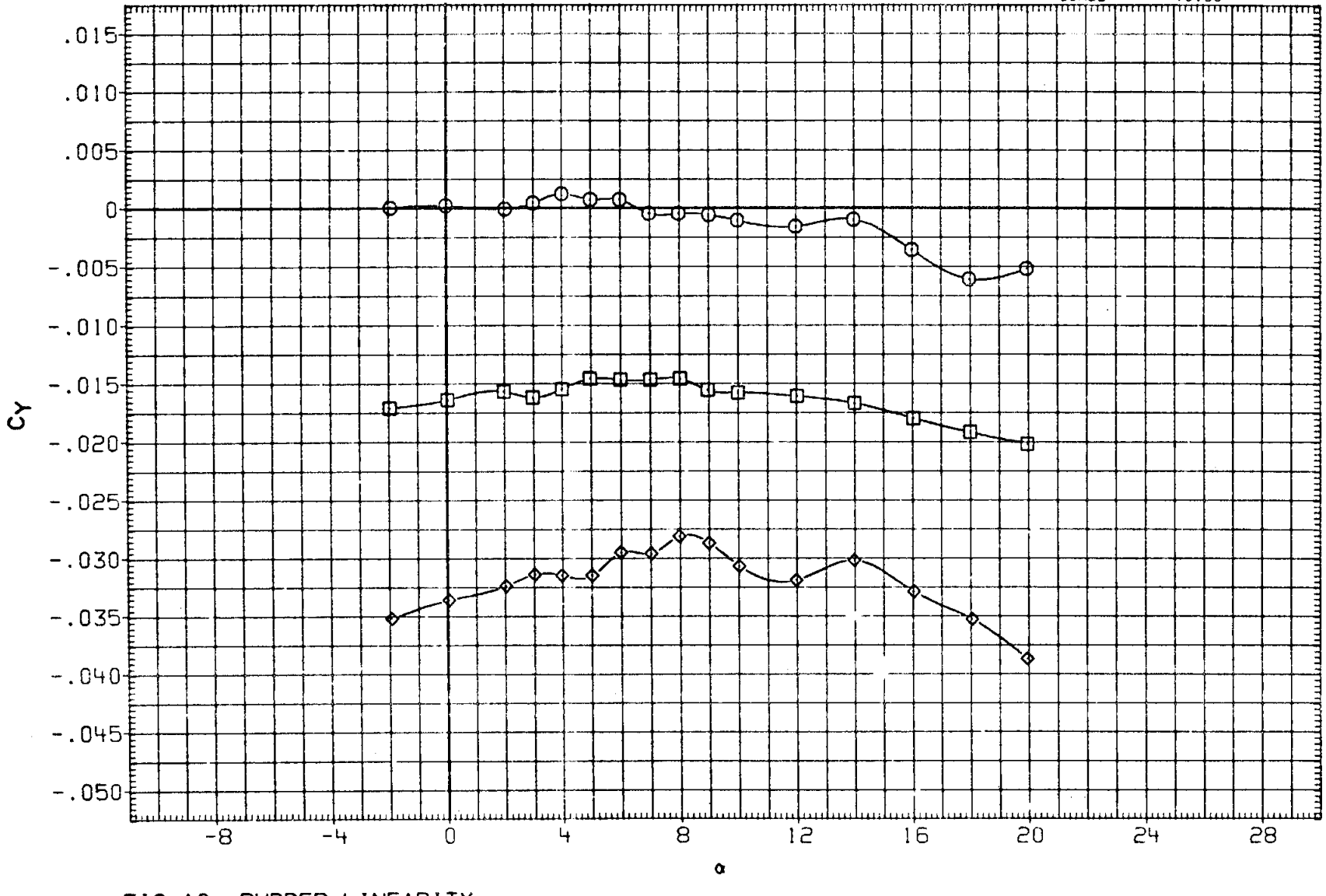

FIG.10 RUDDER LINEARITY

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

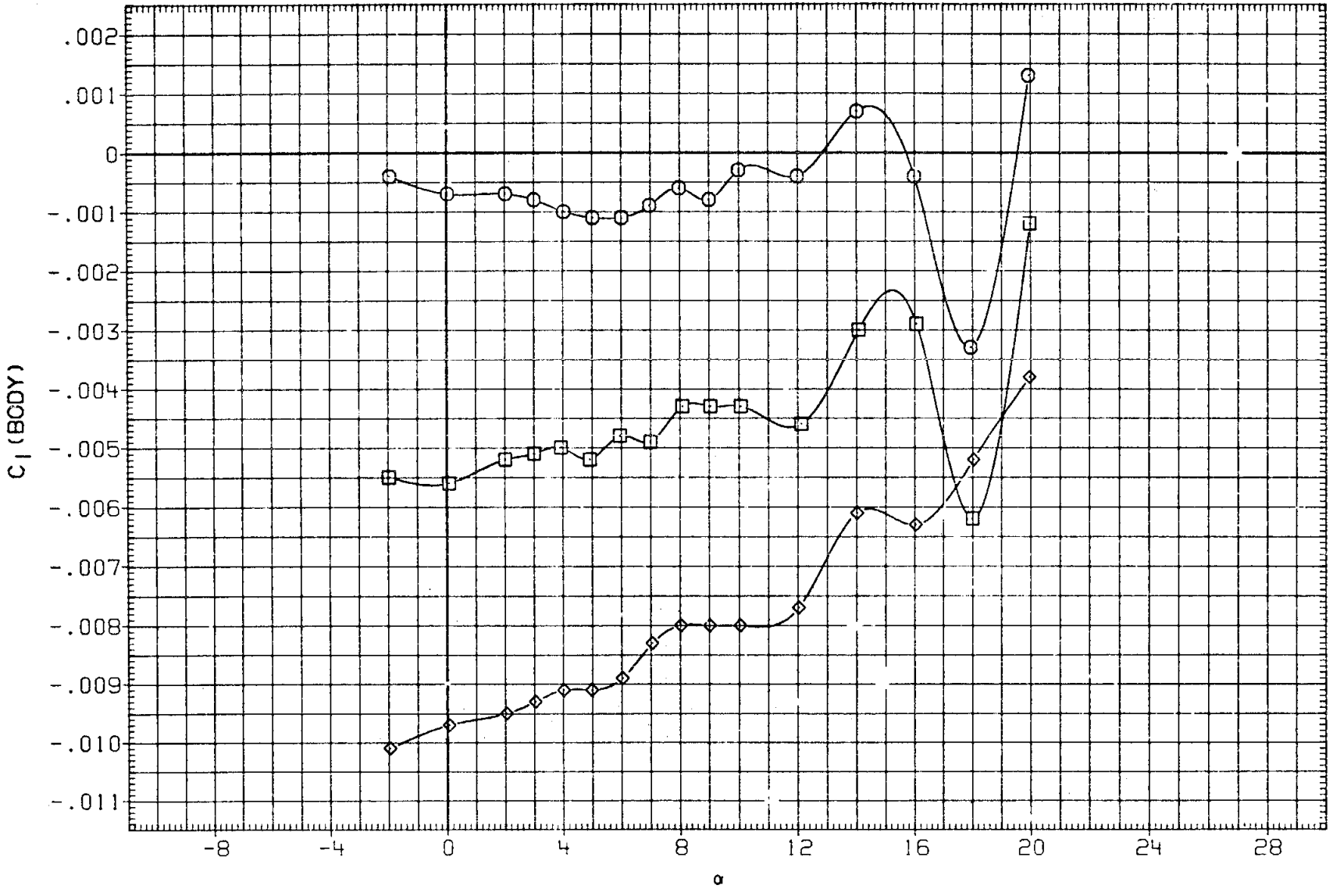

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

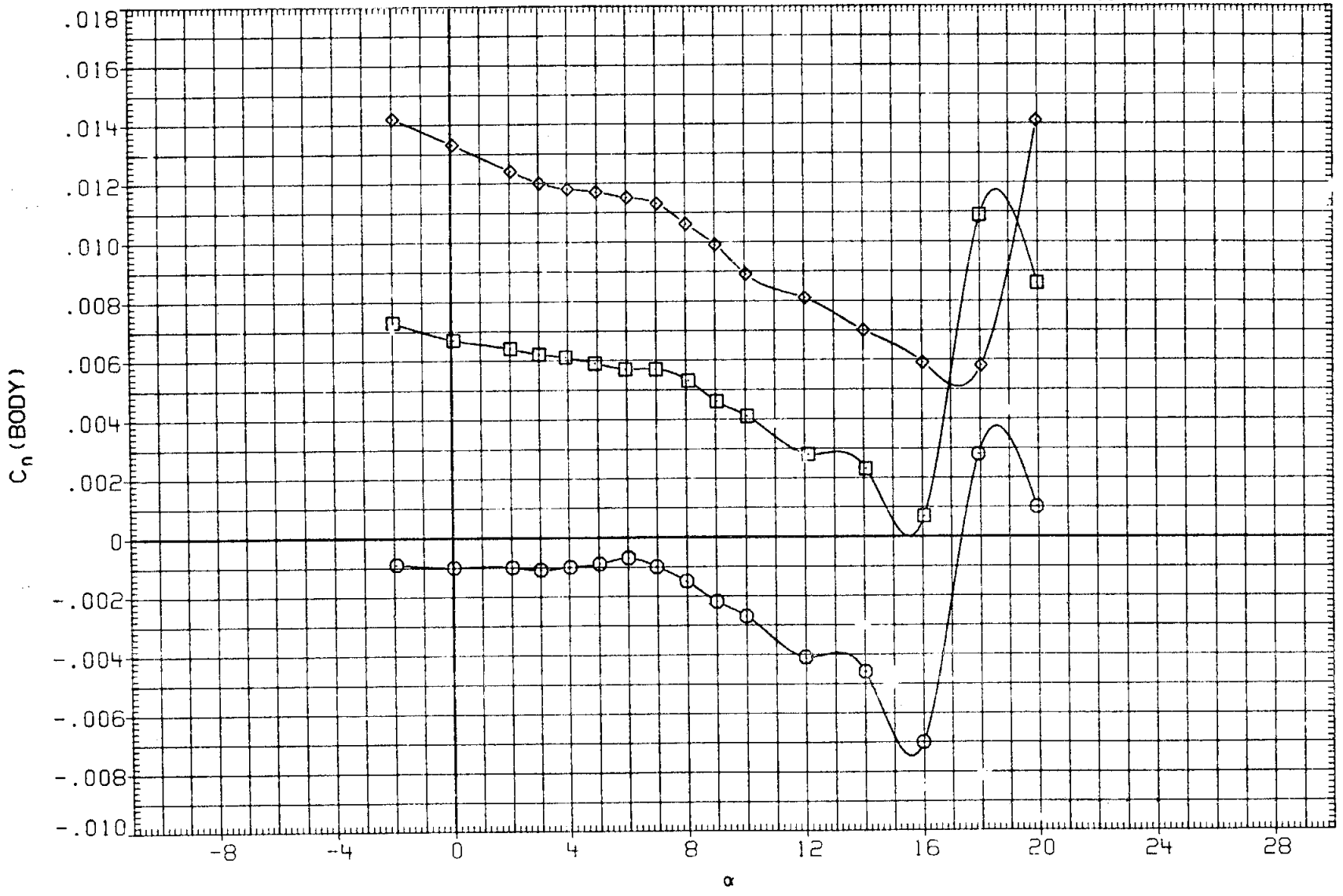

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R28097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

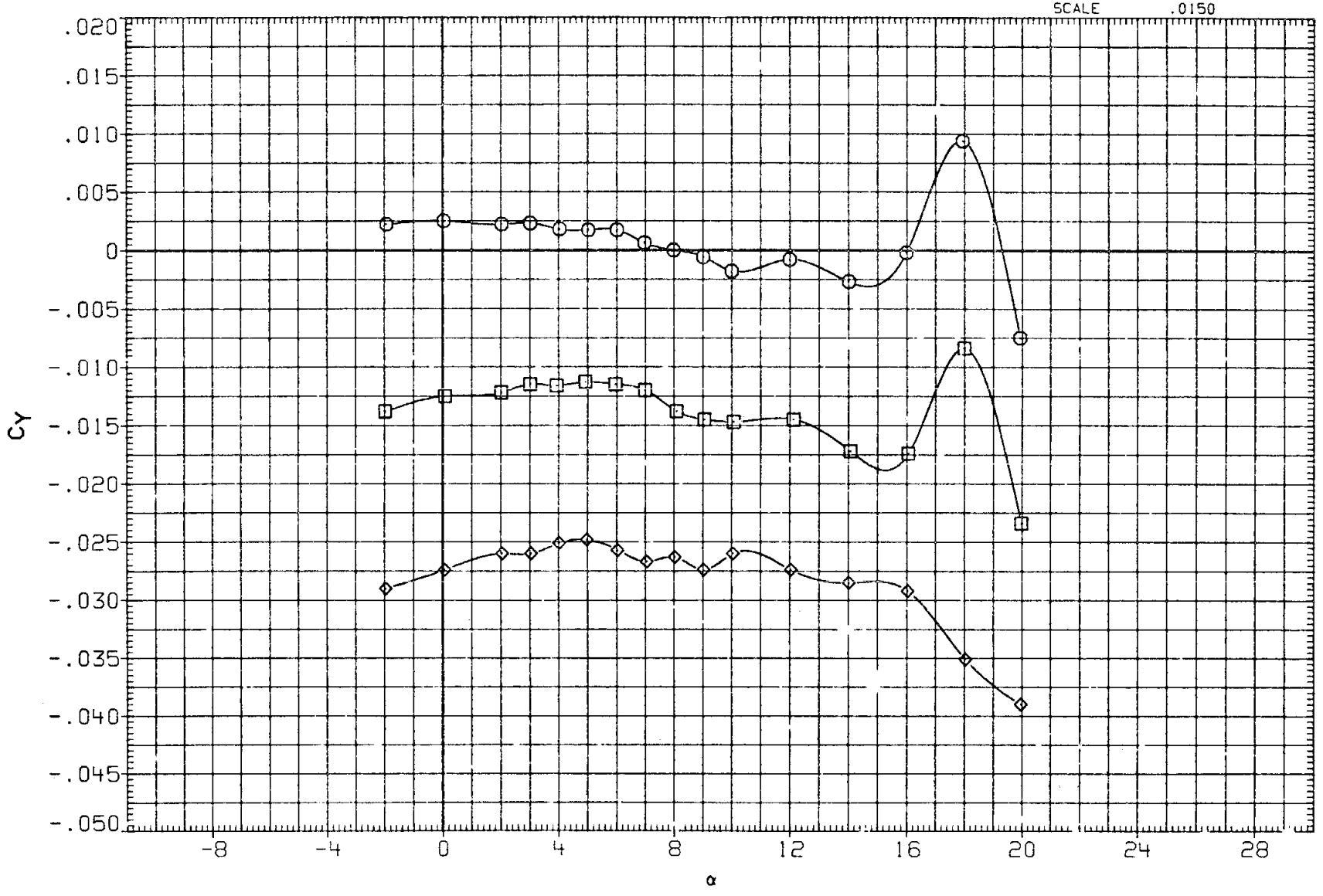

FIG.10 RUDDER LINEARITY

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R28084	○	ARC 200-1 11(LA77) OV101
R28138	□	ARC 200-1 11(LA77) OV101
R28097	◇	ARC 200-1 11(LA77) OV101

RUDDER	SPOBRK	BETA	BDFLAP
.000	55.000	.000	.000
-5.000	55.000	.000	.000
-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

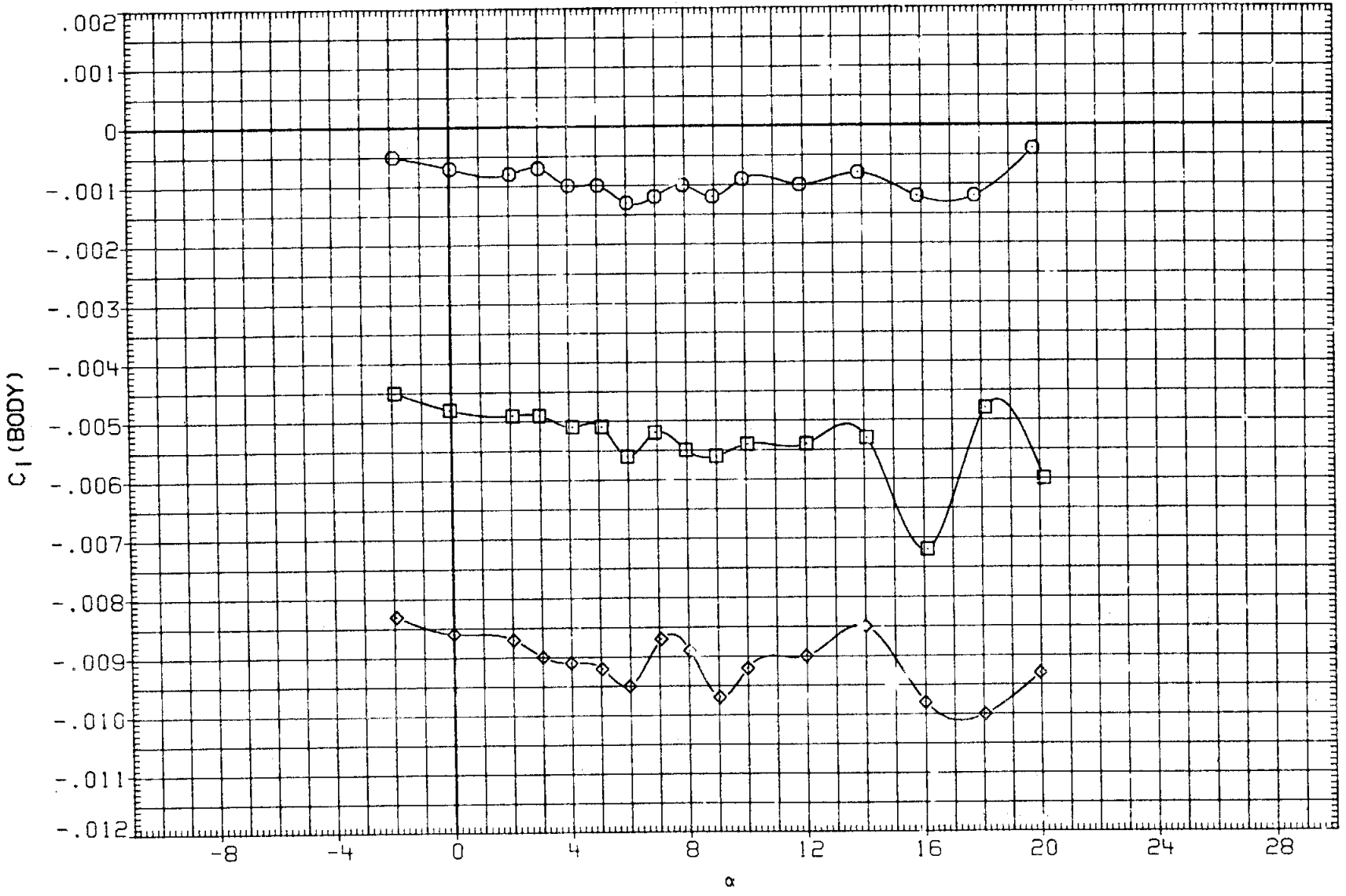

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

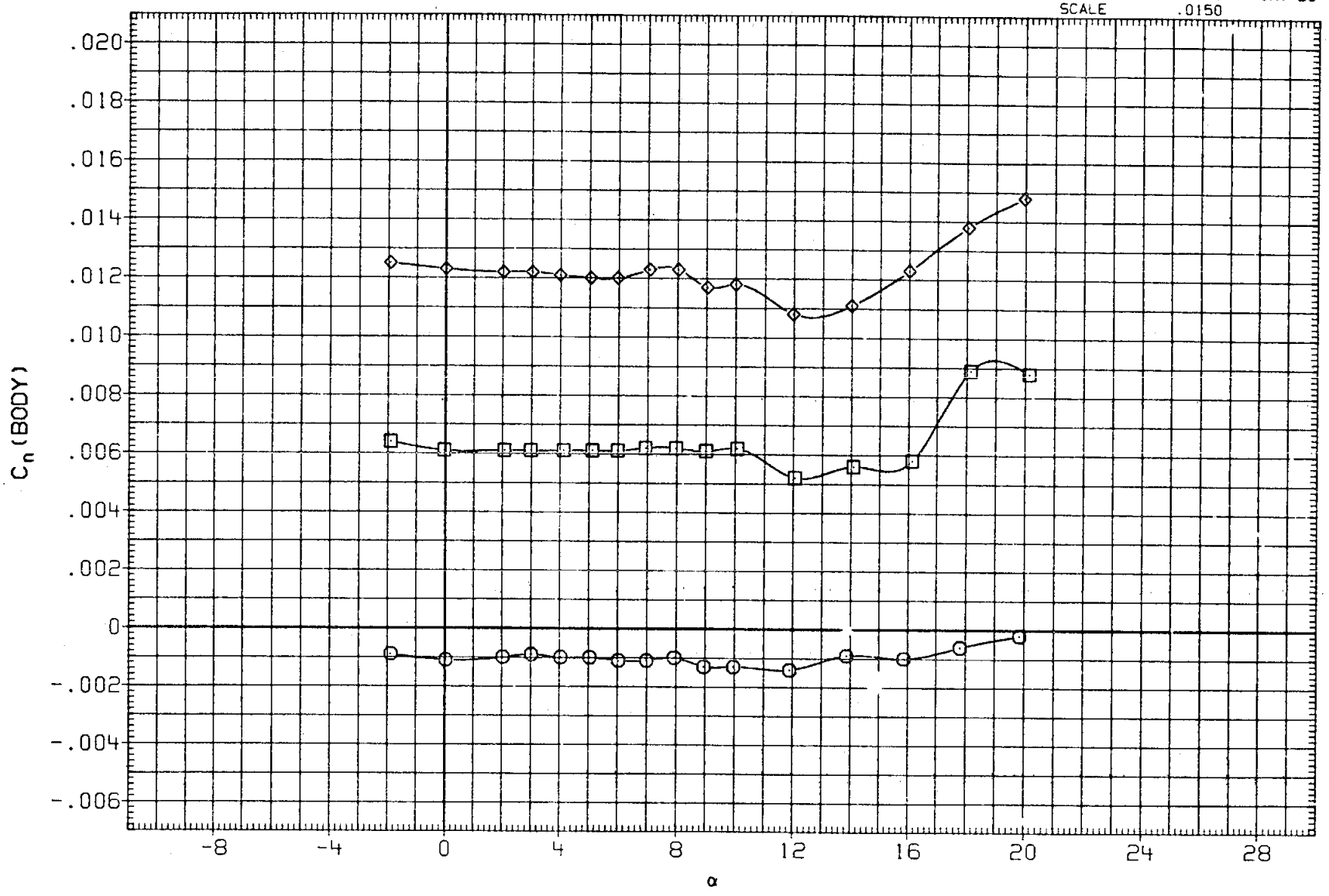

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B084	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

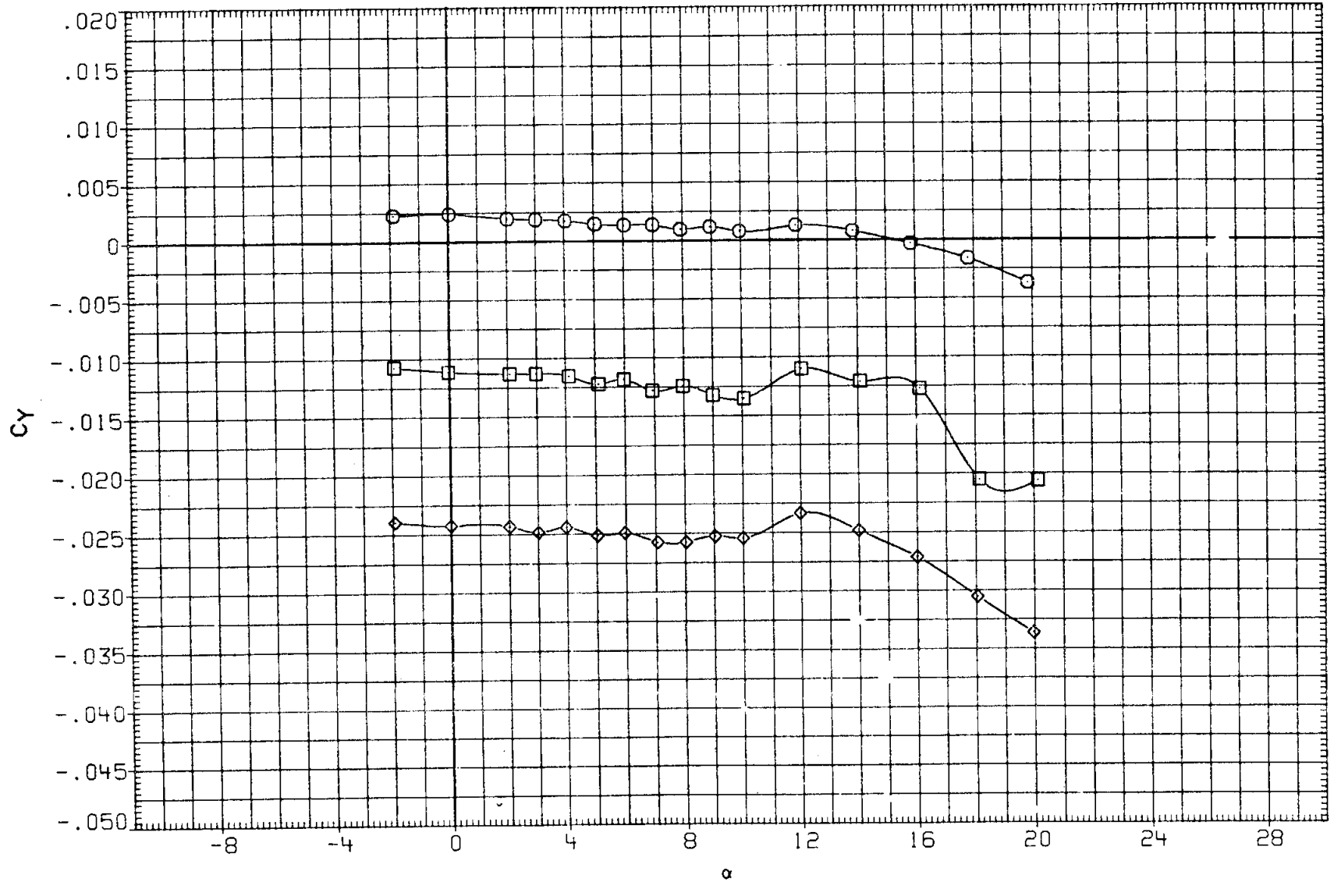

FIG.10 RUDDER LINEARITY

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B080	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

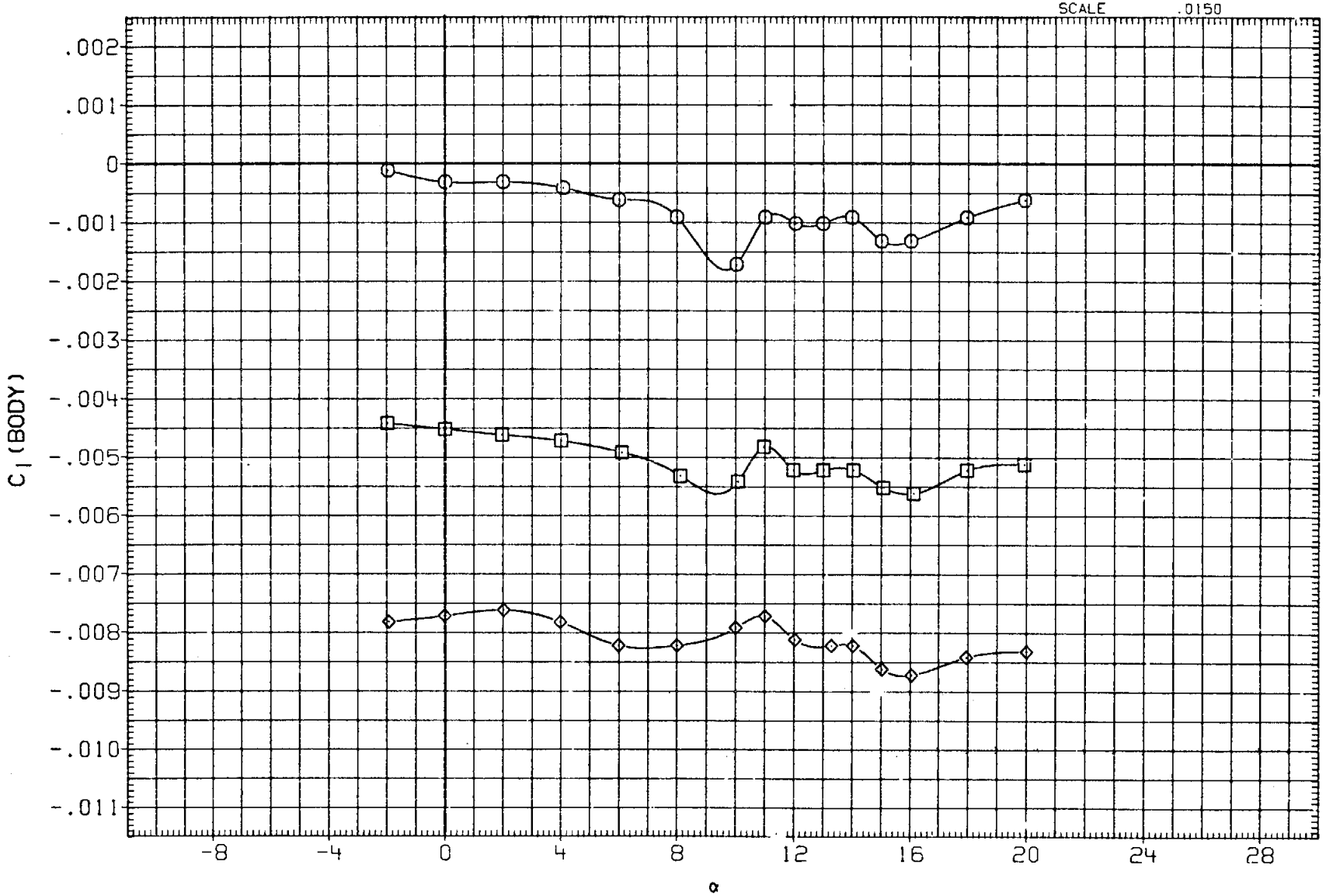

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B080	○	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

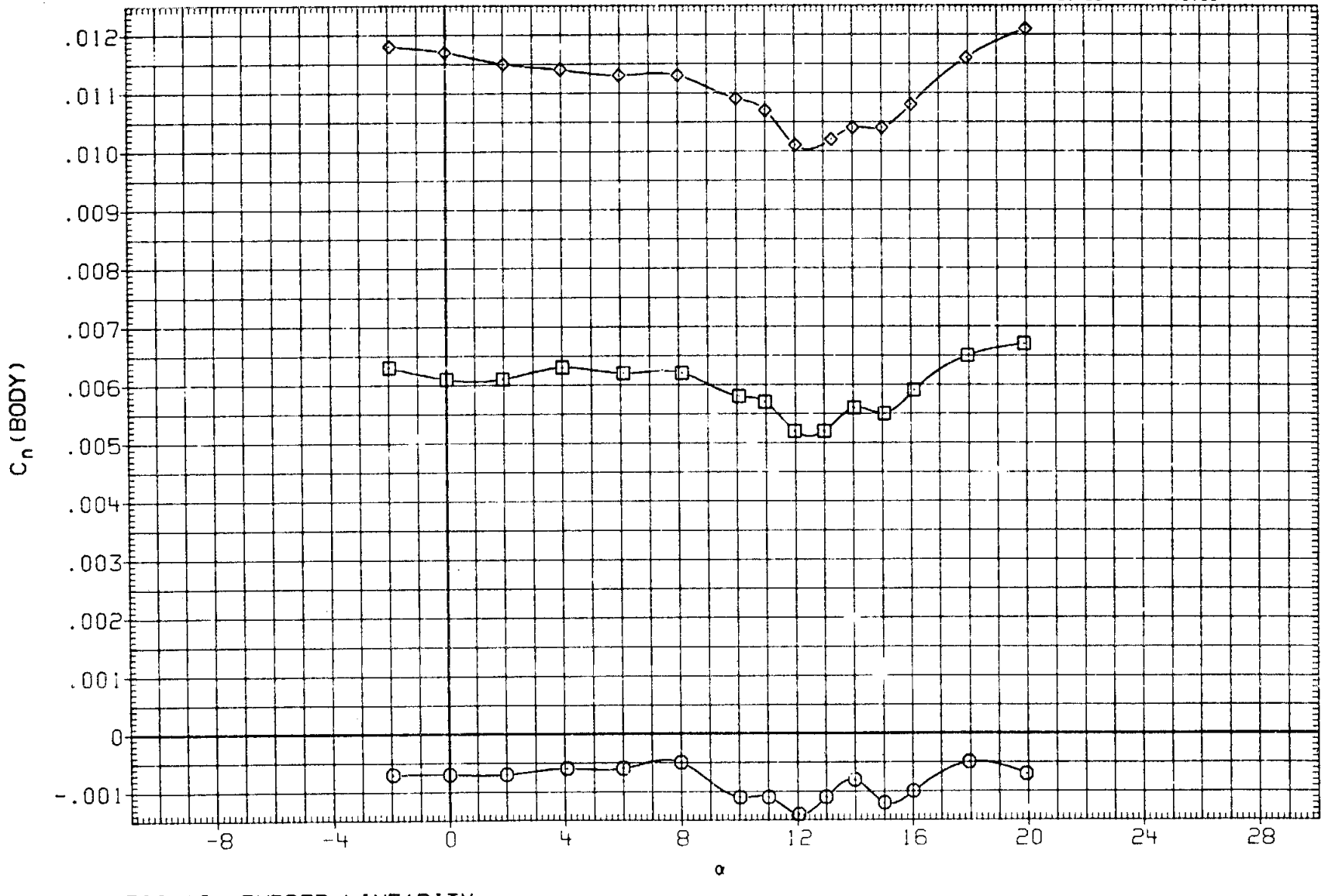

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R28080	○	ARC 200-1 11(LA77) OV101
R28135	□	ARC 200-1 11(LA77) OV101
R28093	◇	ARC 200-1 11(LA77) OV101

RUDDER	SPDBRK	BETA	BOFLAP
.000	55.000	.000	.000
-5.000	55.000	.000	.000
-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

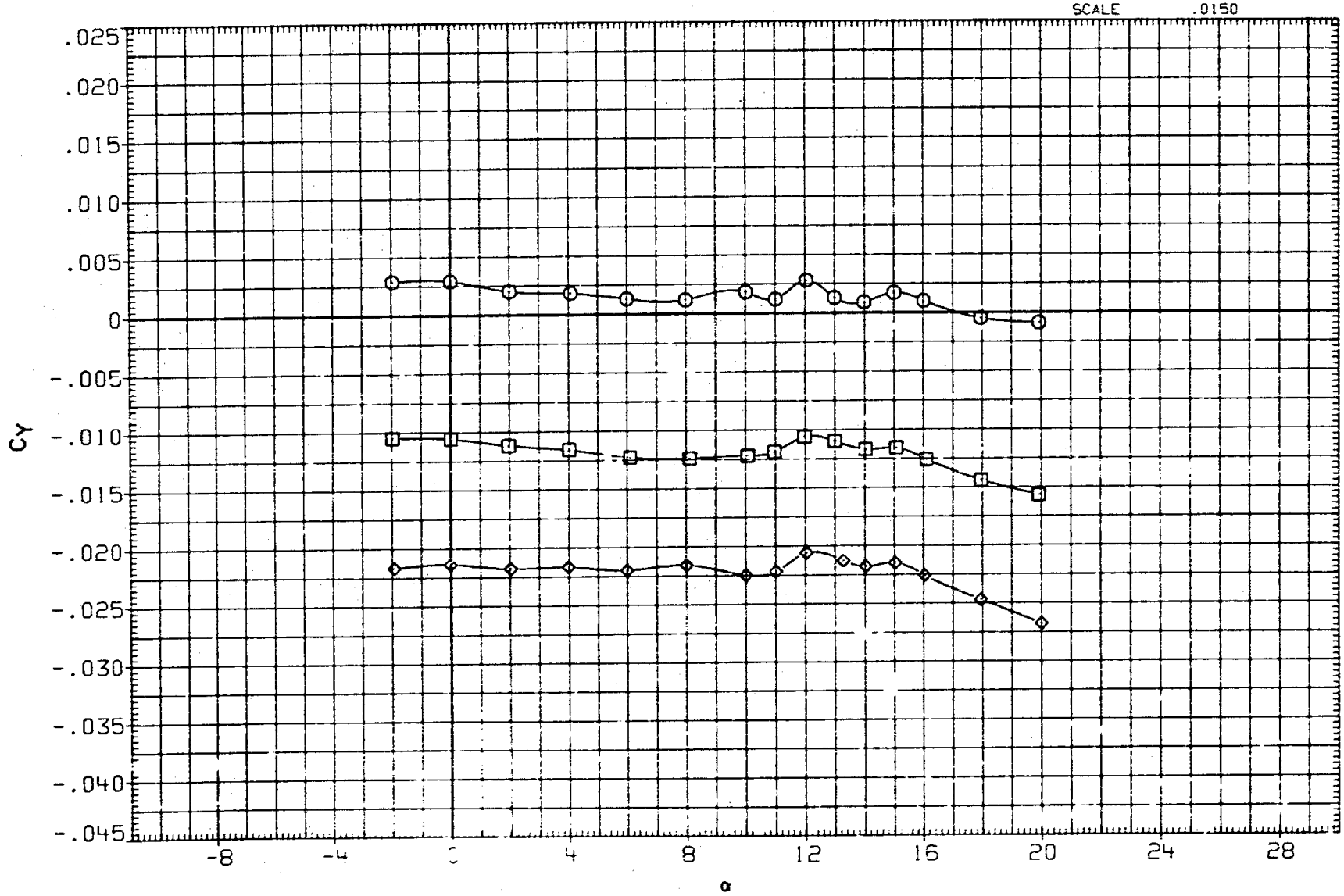

FIG.10 RUDDER LINEARITY

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

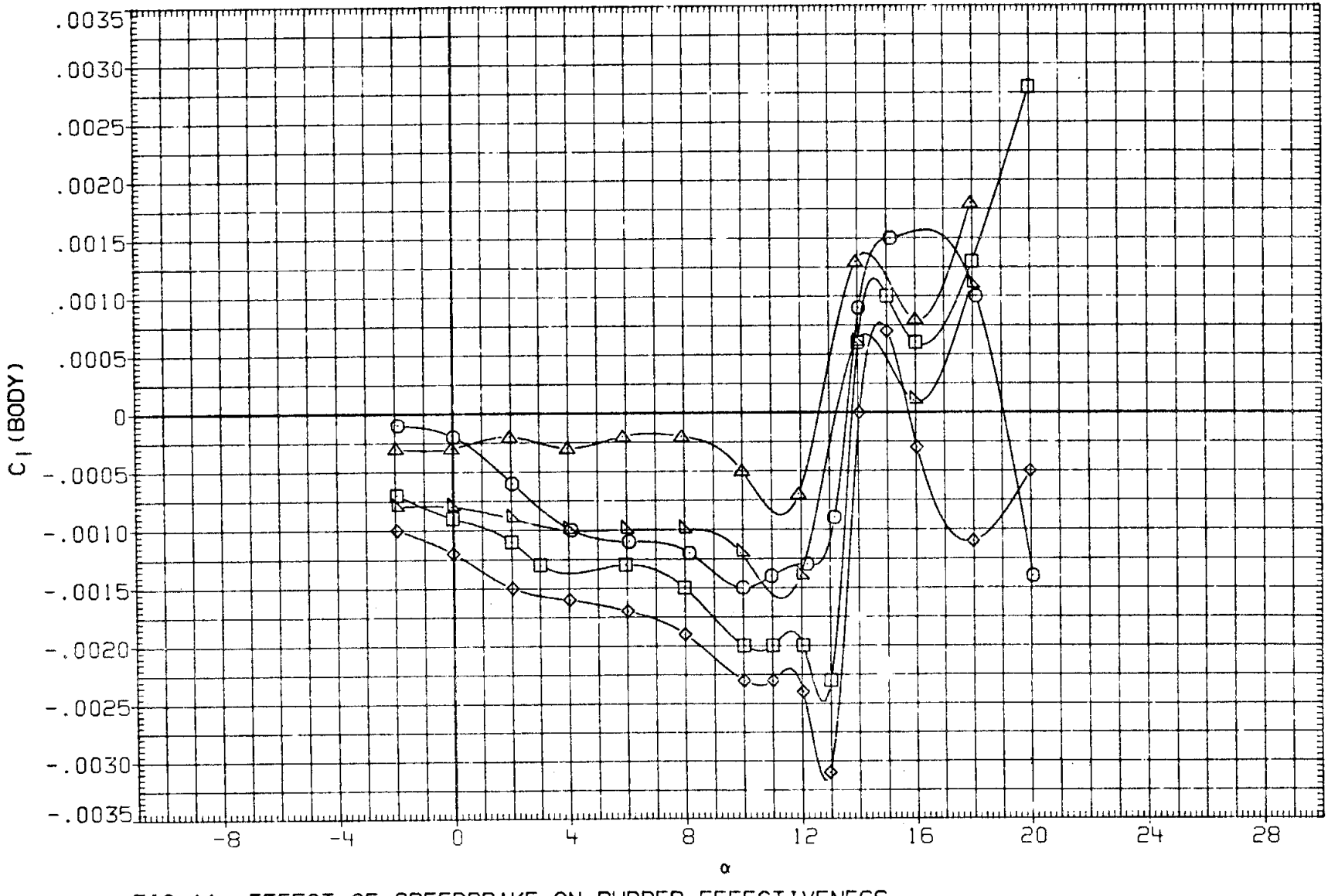

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

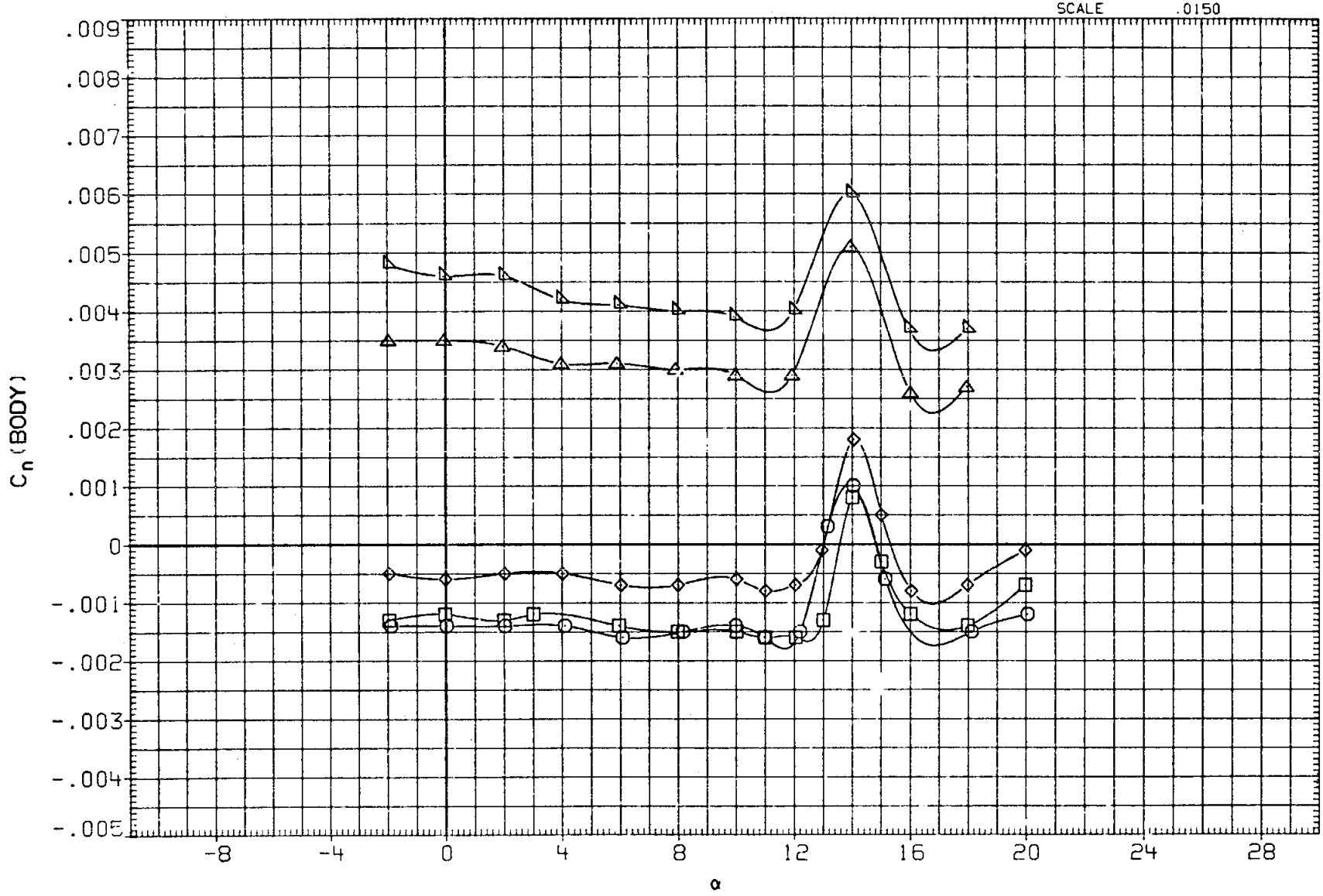

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

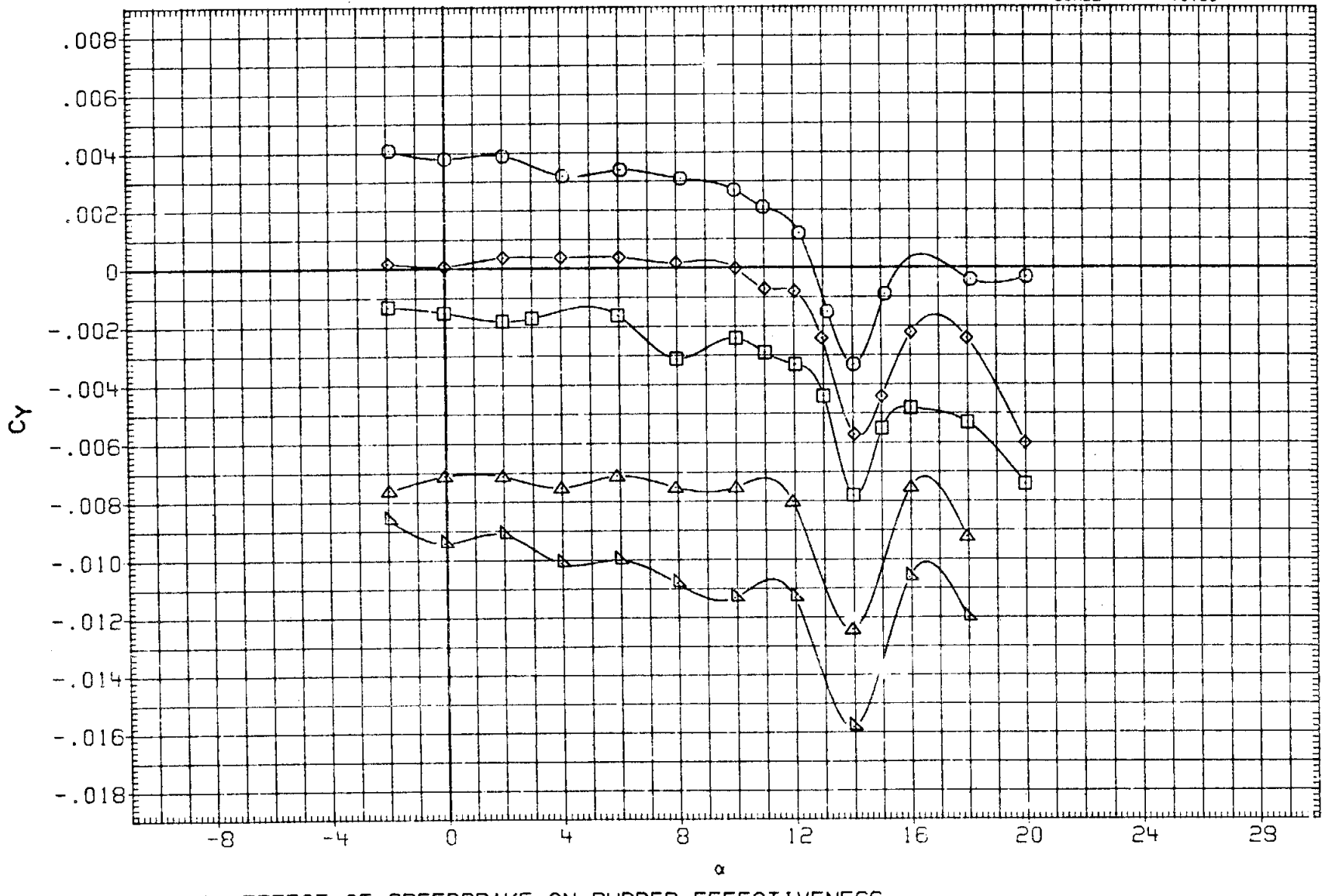

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R28219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

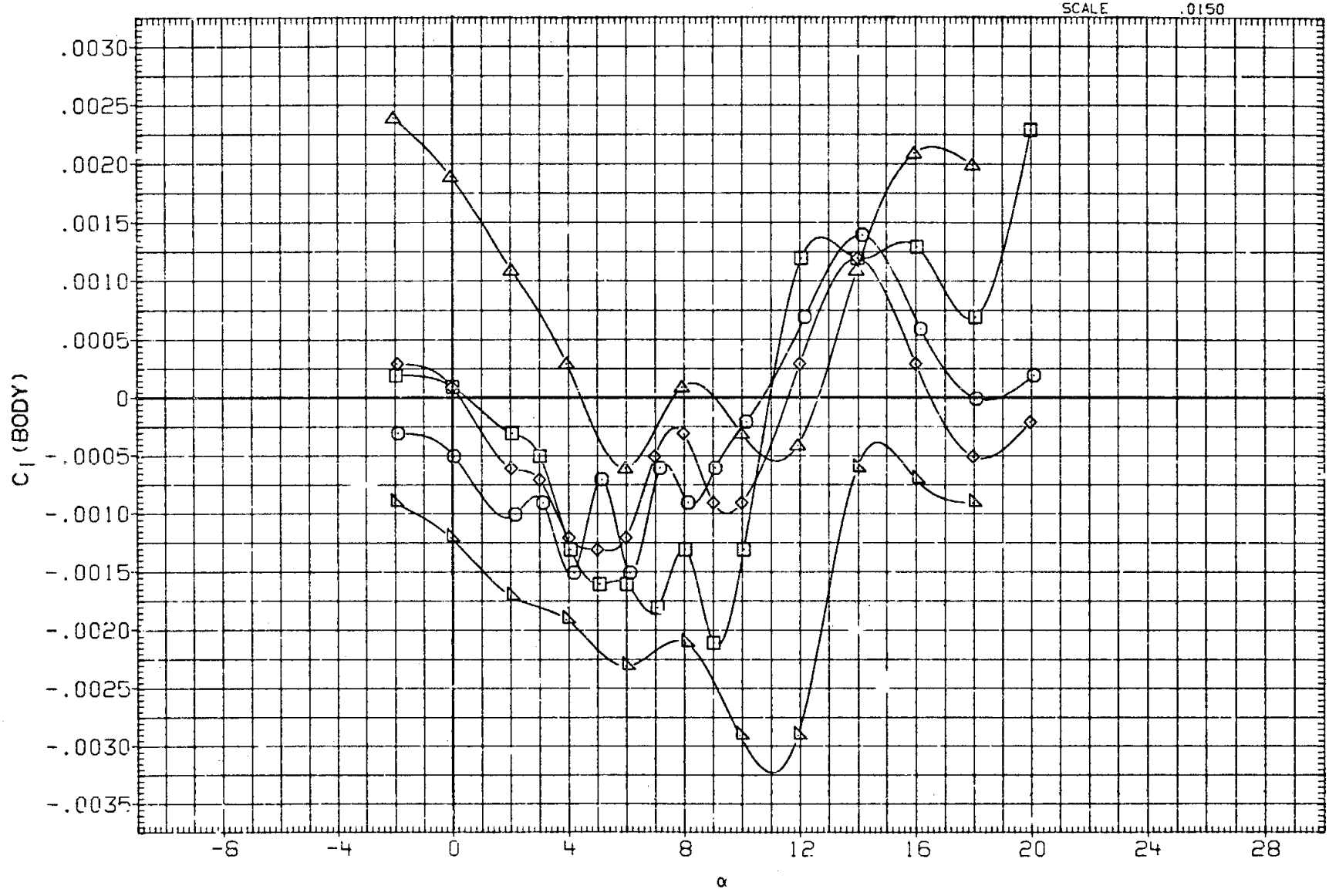

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

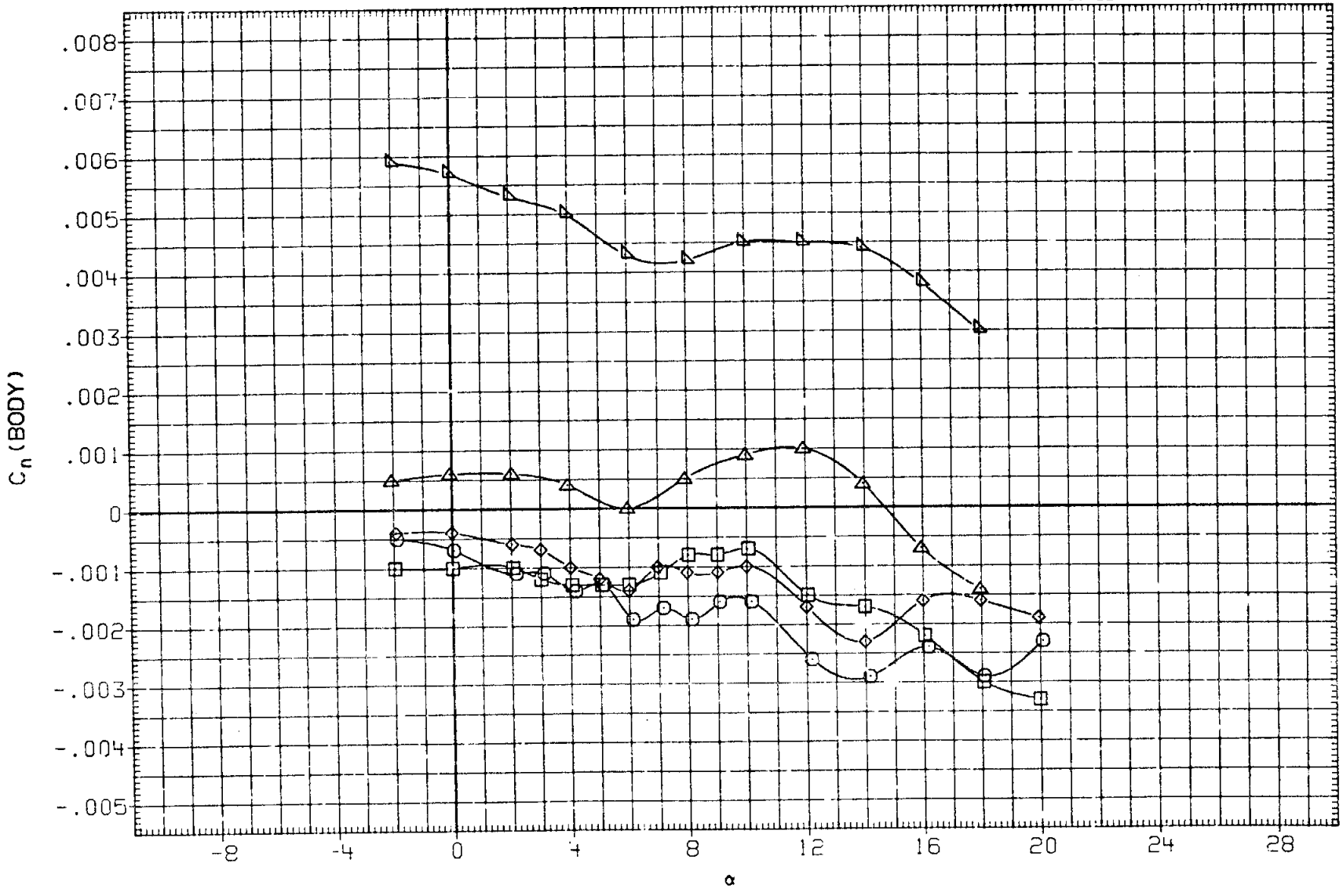

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

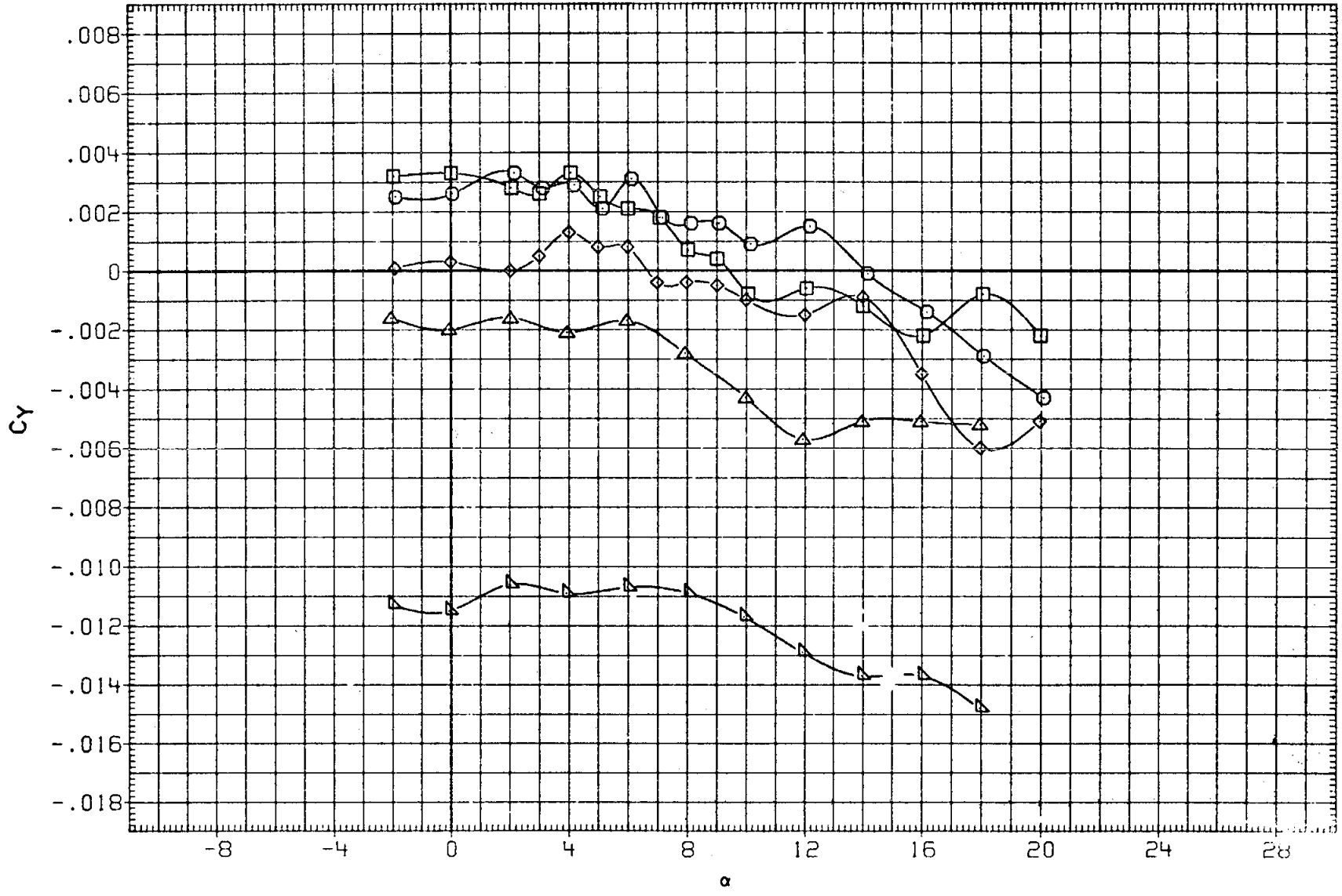

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

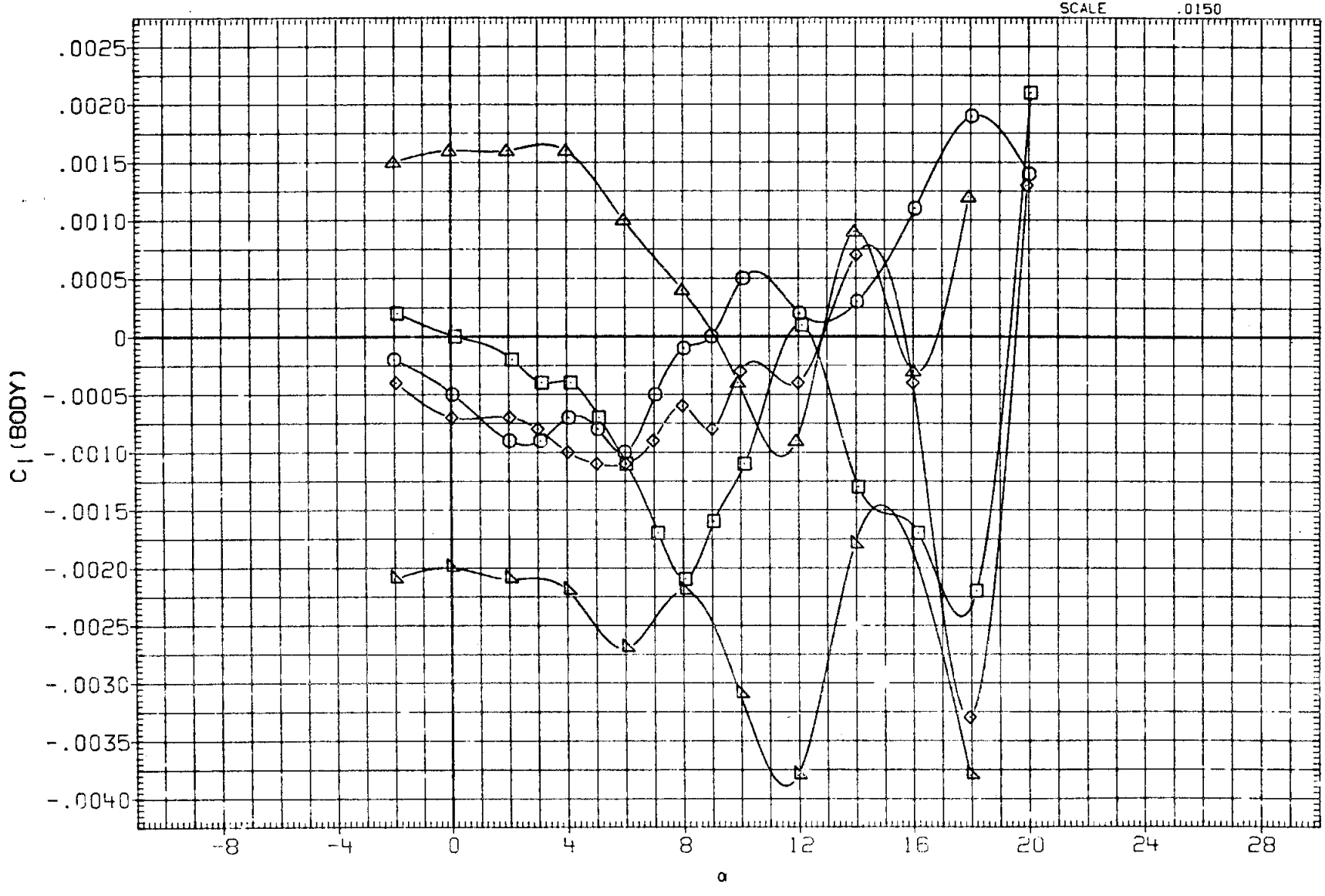

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	APC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

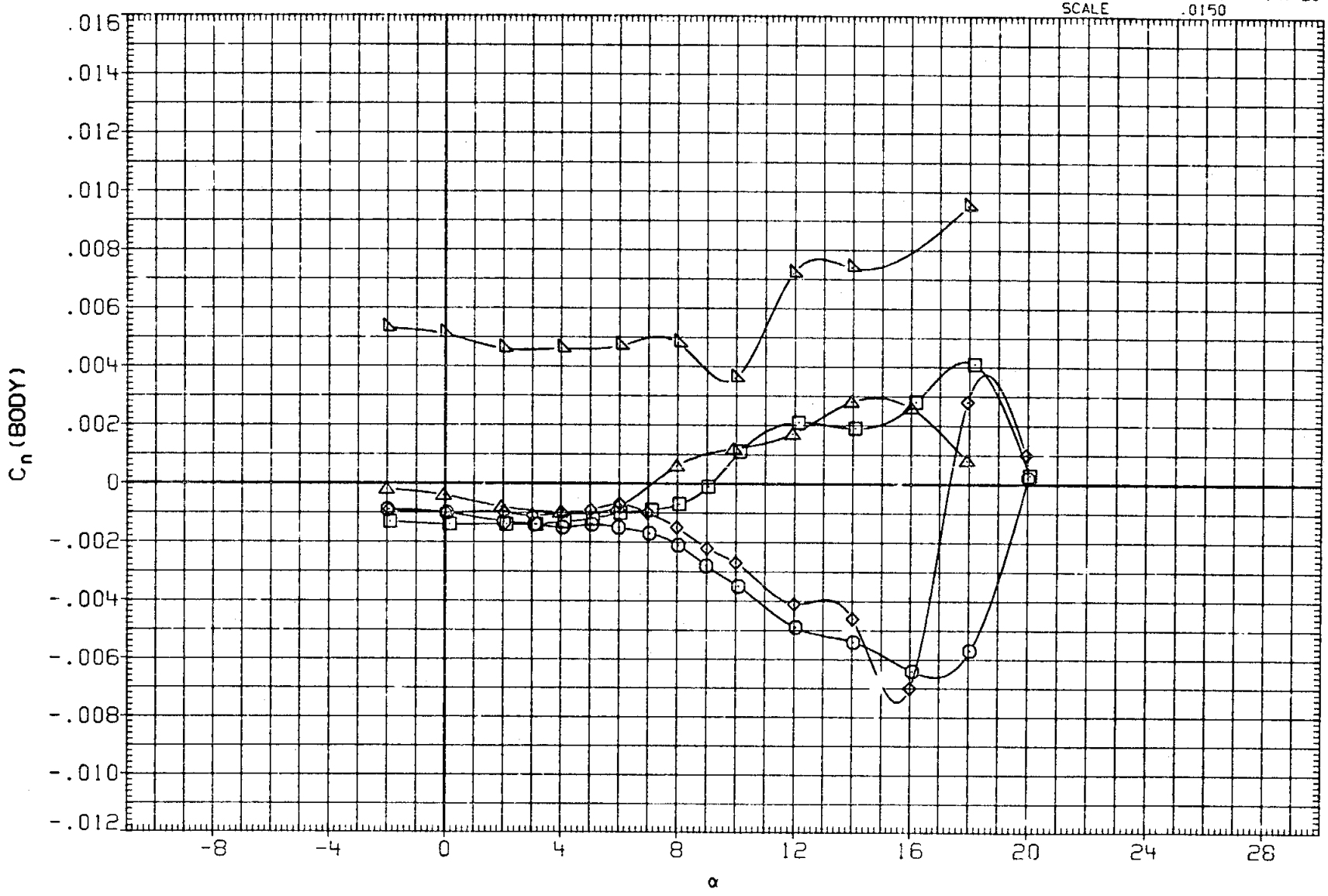

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R26219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	336.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

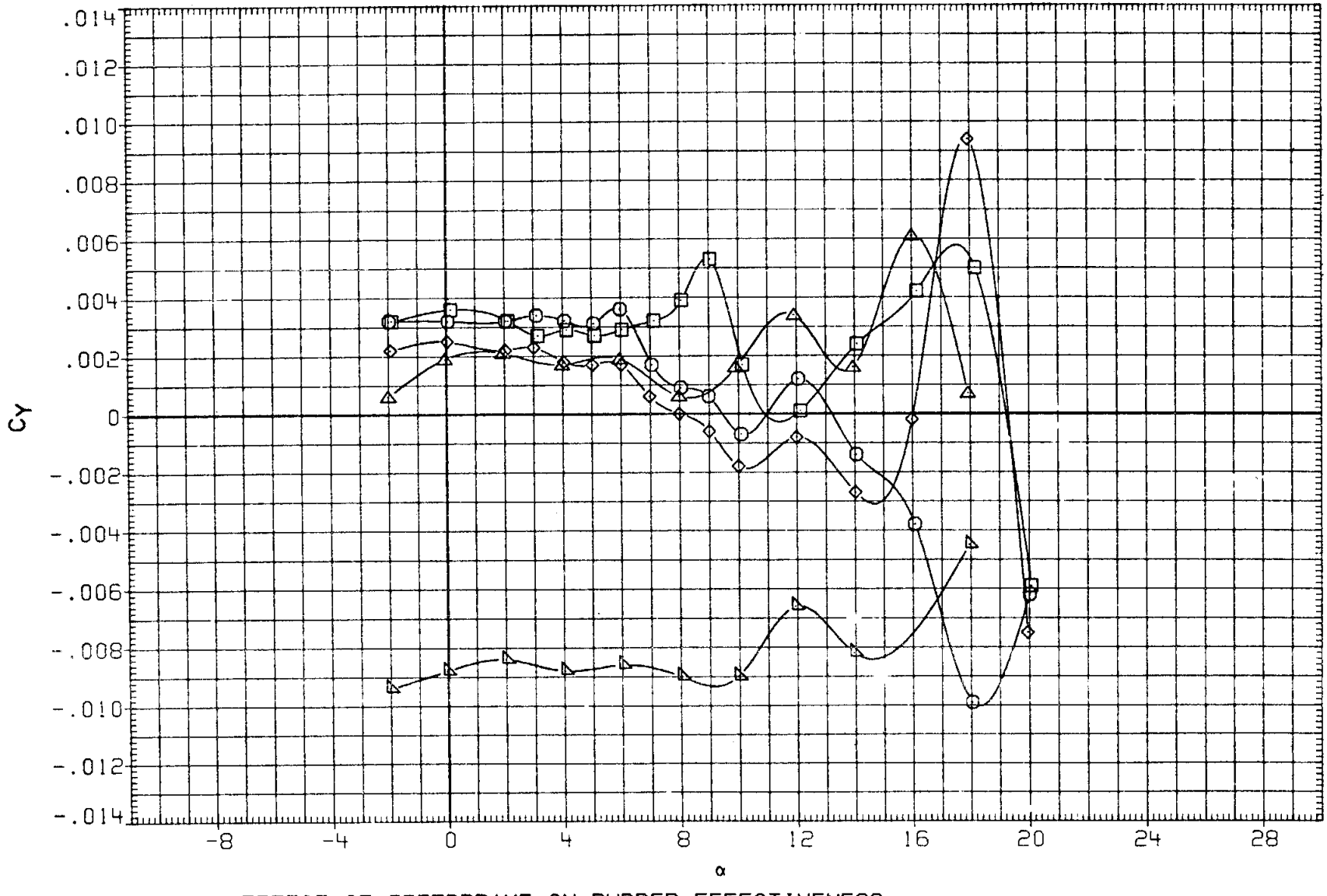

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

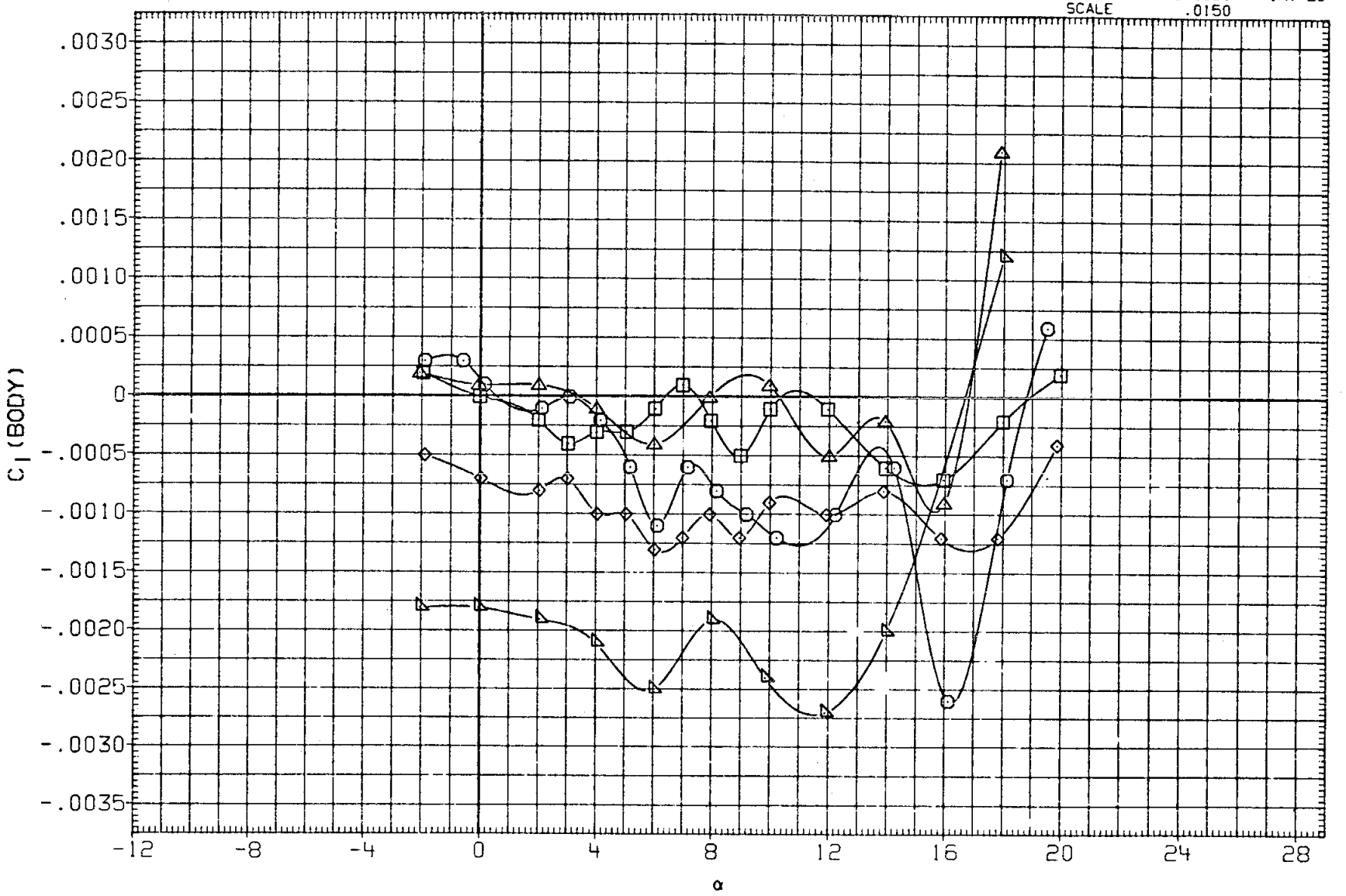

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

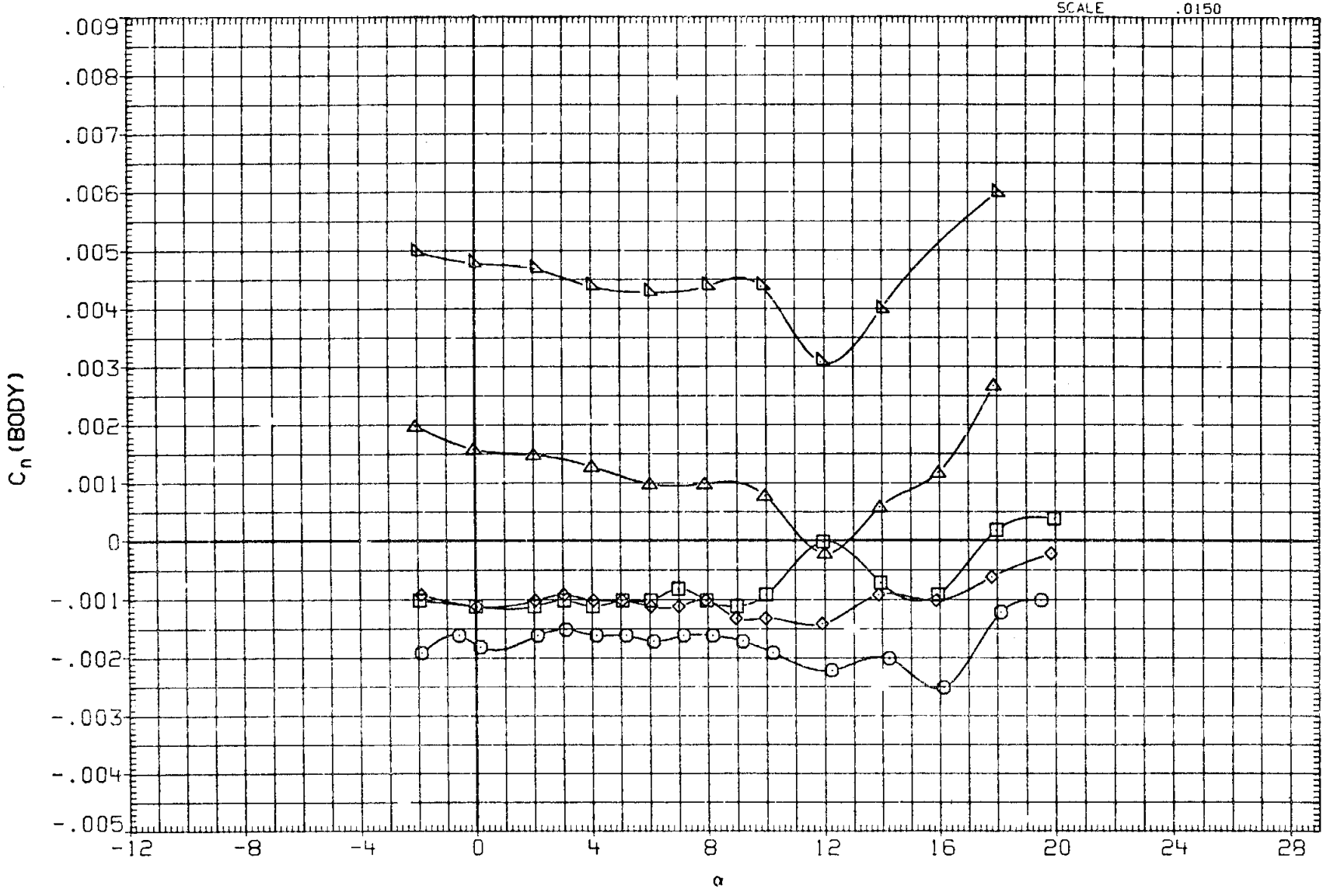

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B227	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B219	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

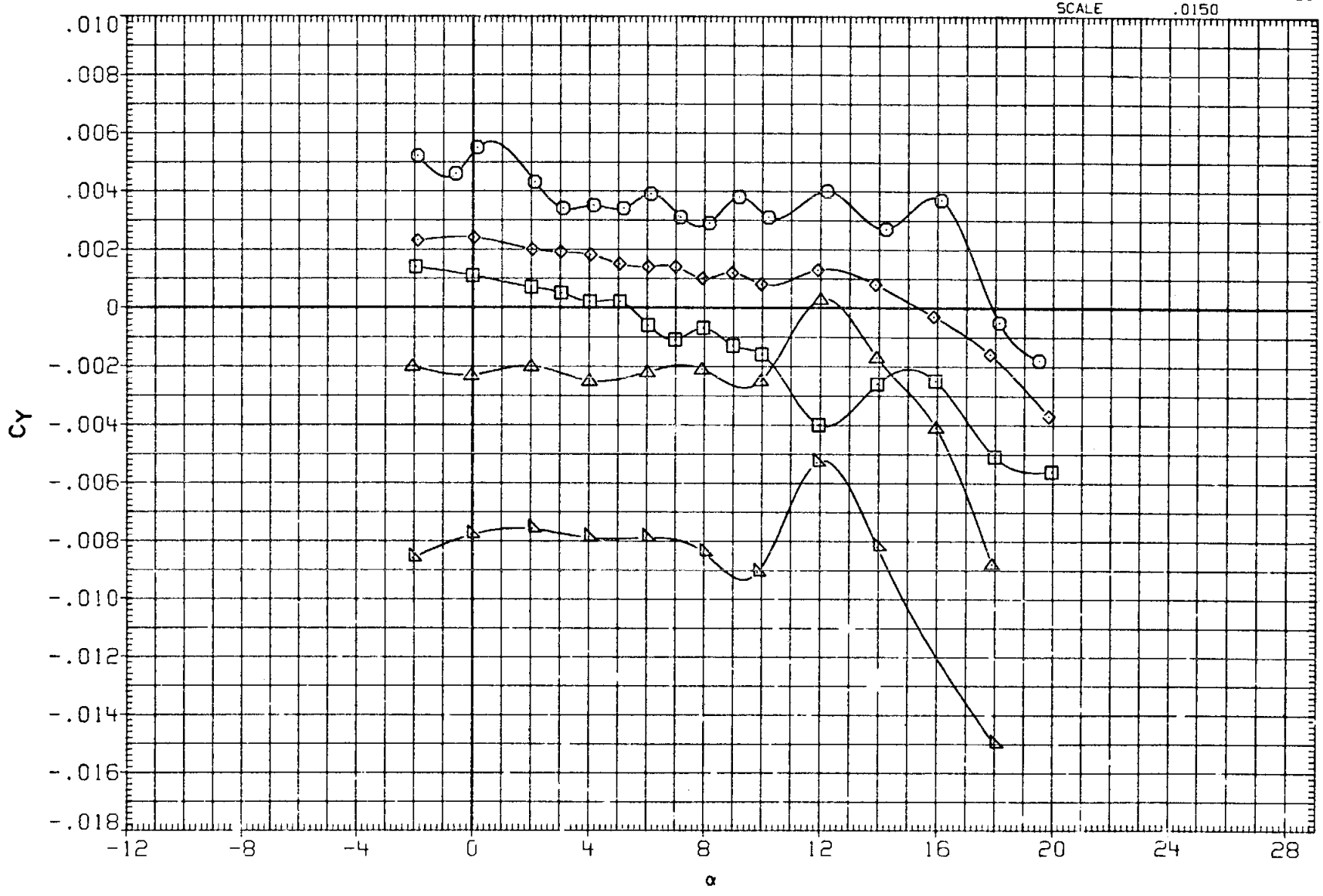

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

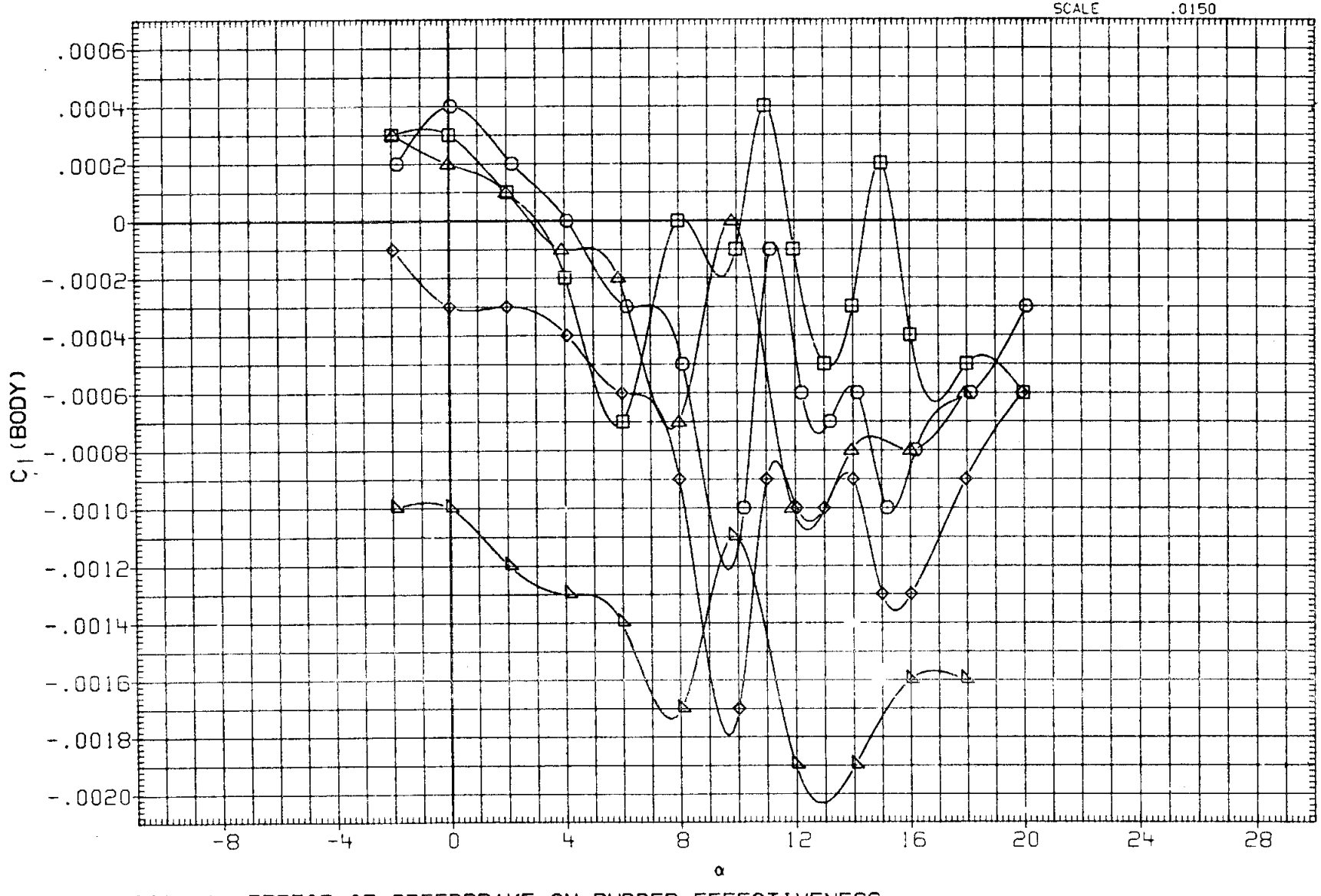

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

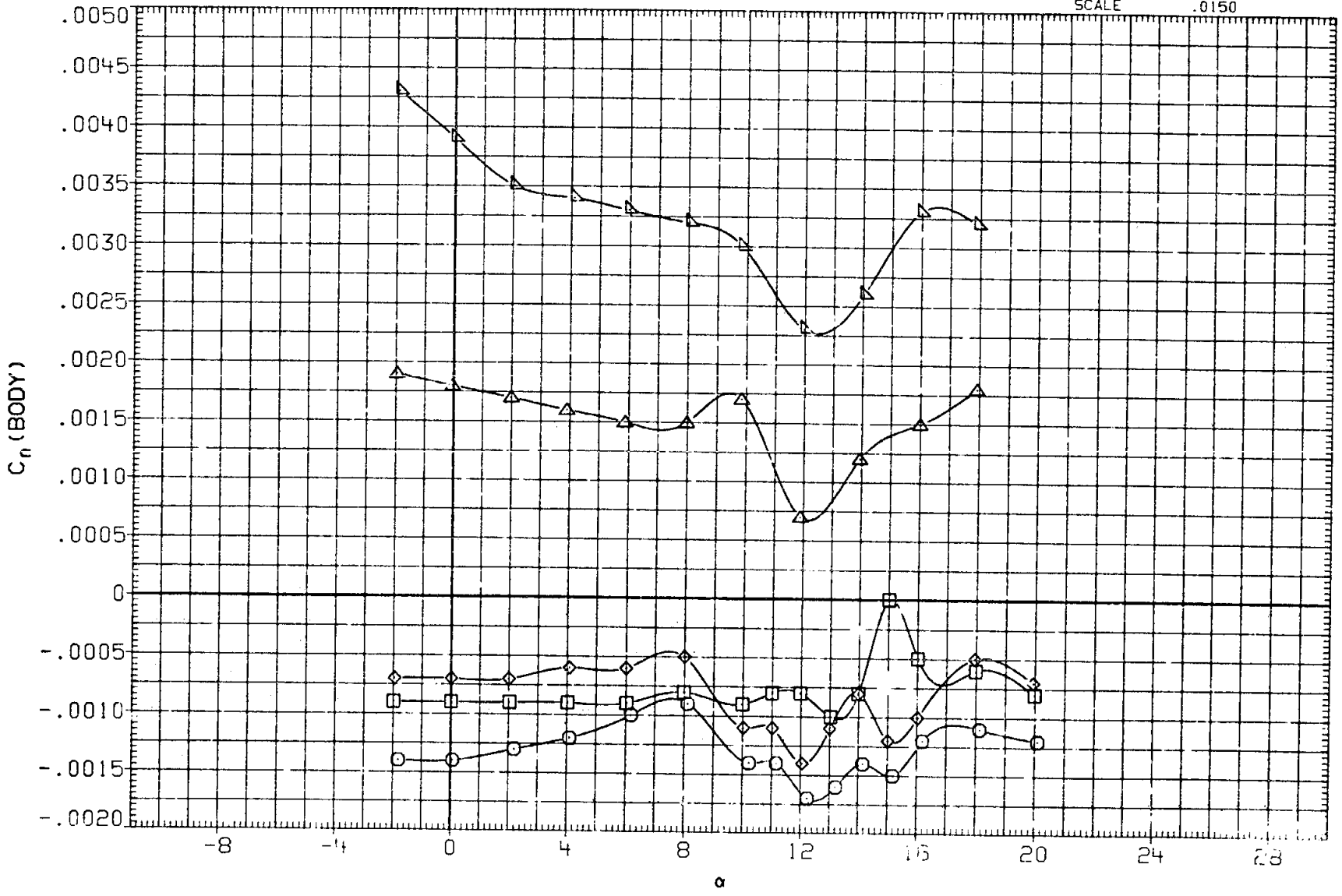

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B224	△	ARC 200-1 11(LA77) OV101	-3.000	.000	.000	.000
R2B216	◺	ARC 200-1 11(LA77) OV101	-3.000	25.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

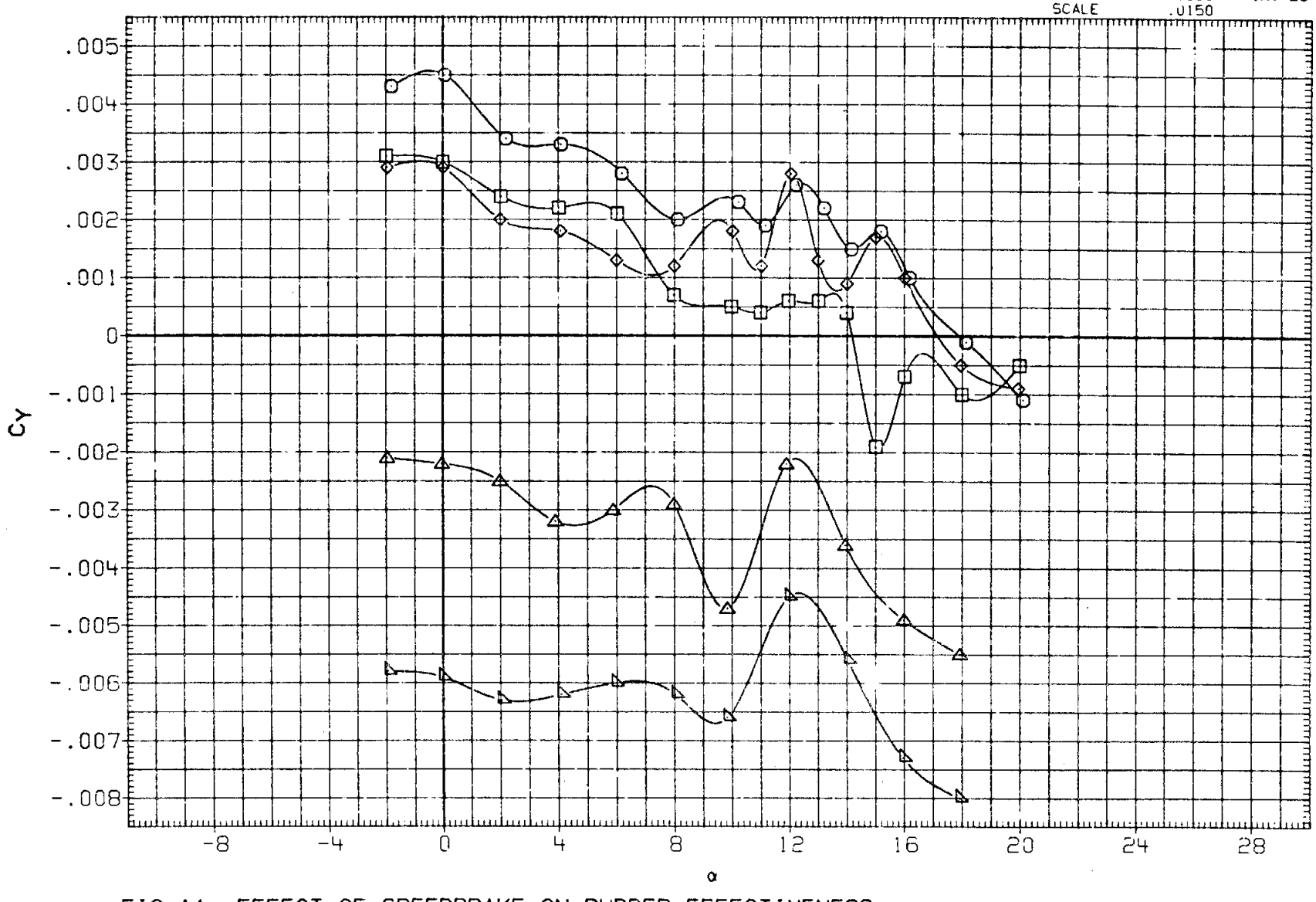

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B062	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B135	D	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

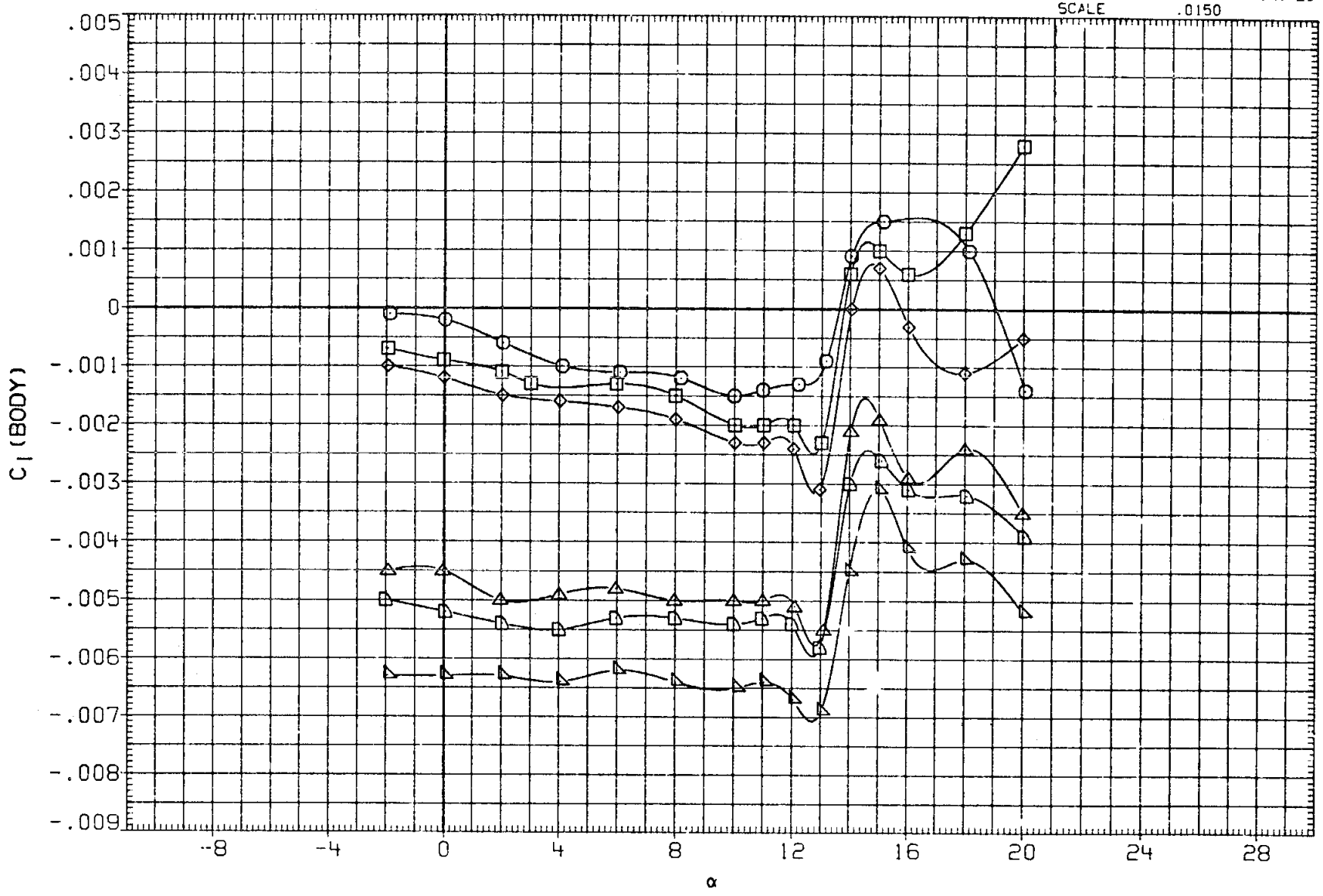

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B062	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B135	D	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

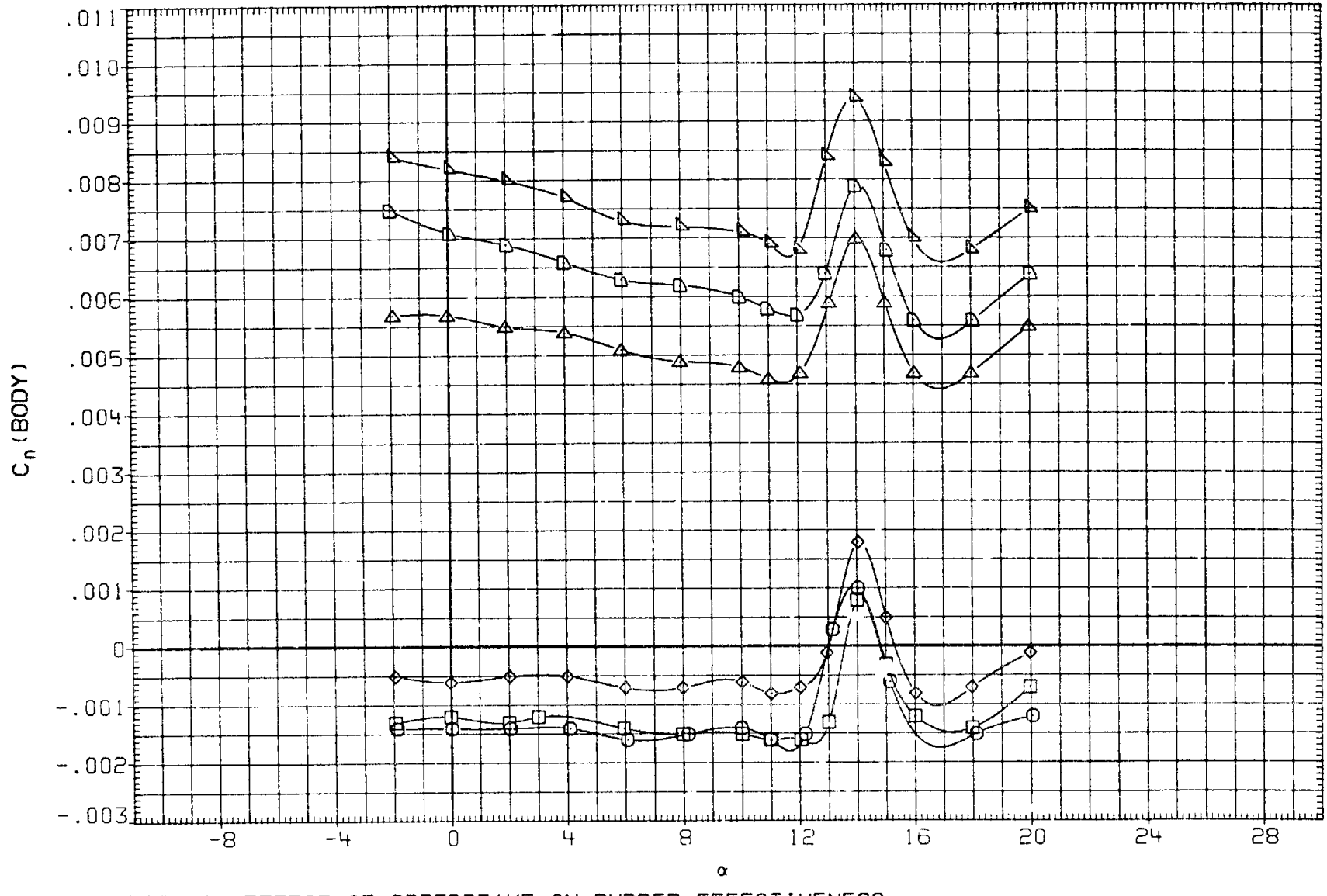

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B062	◸	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B135	◺	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

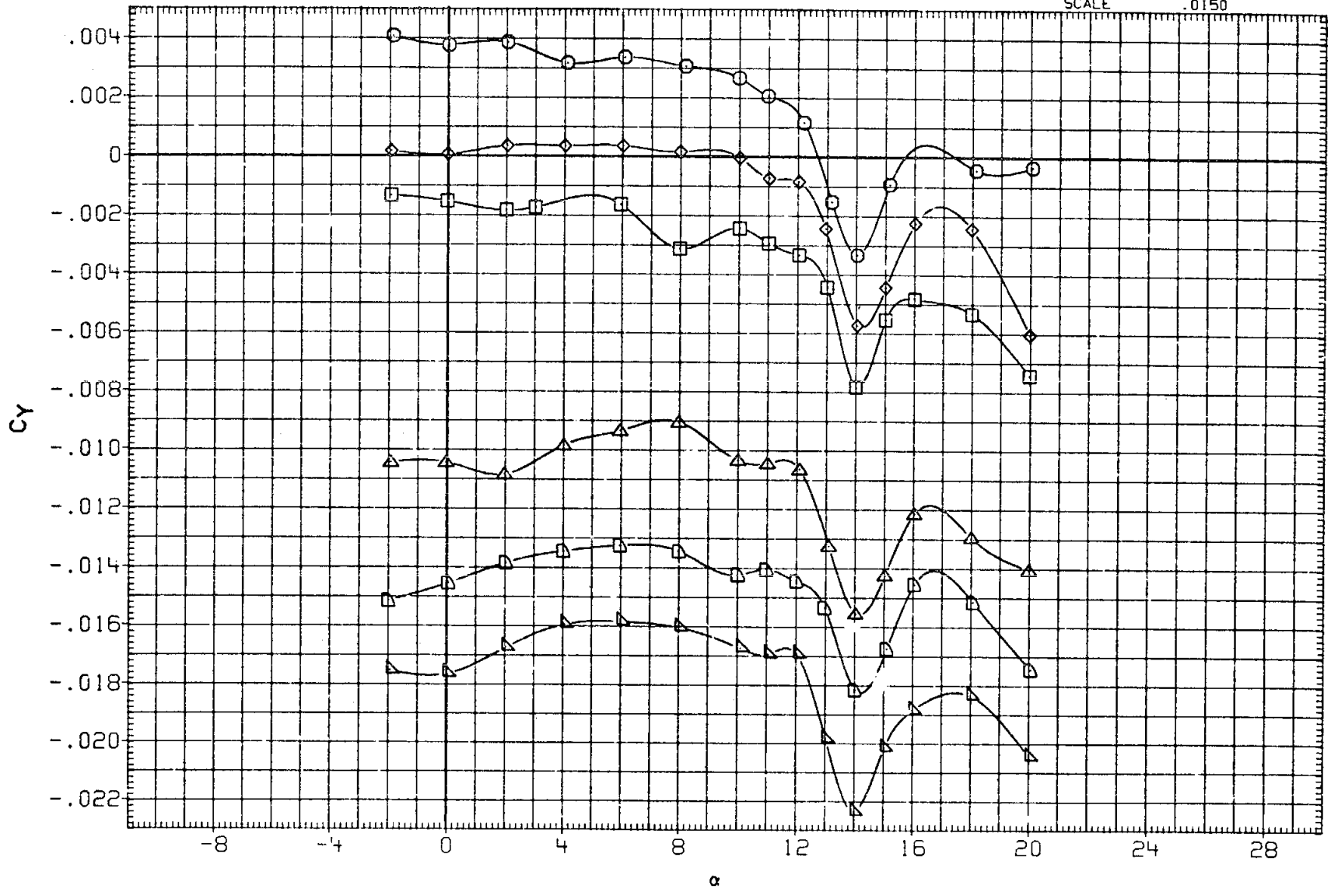

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

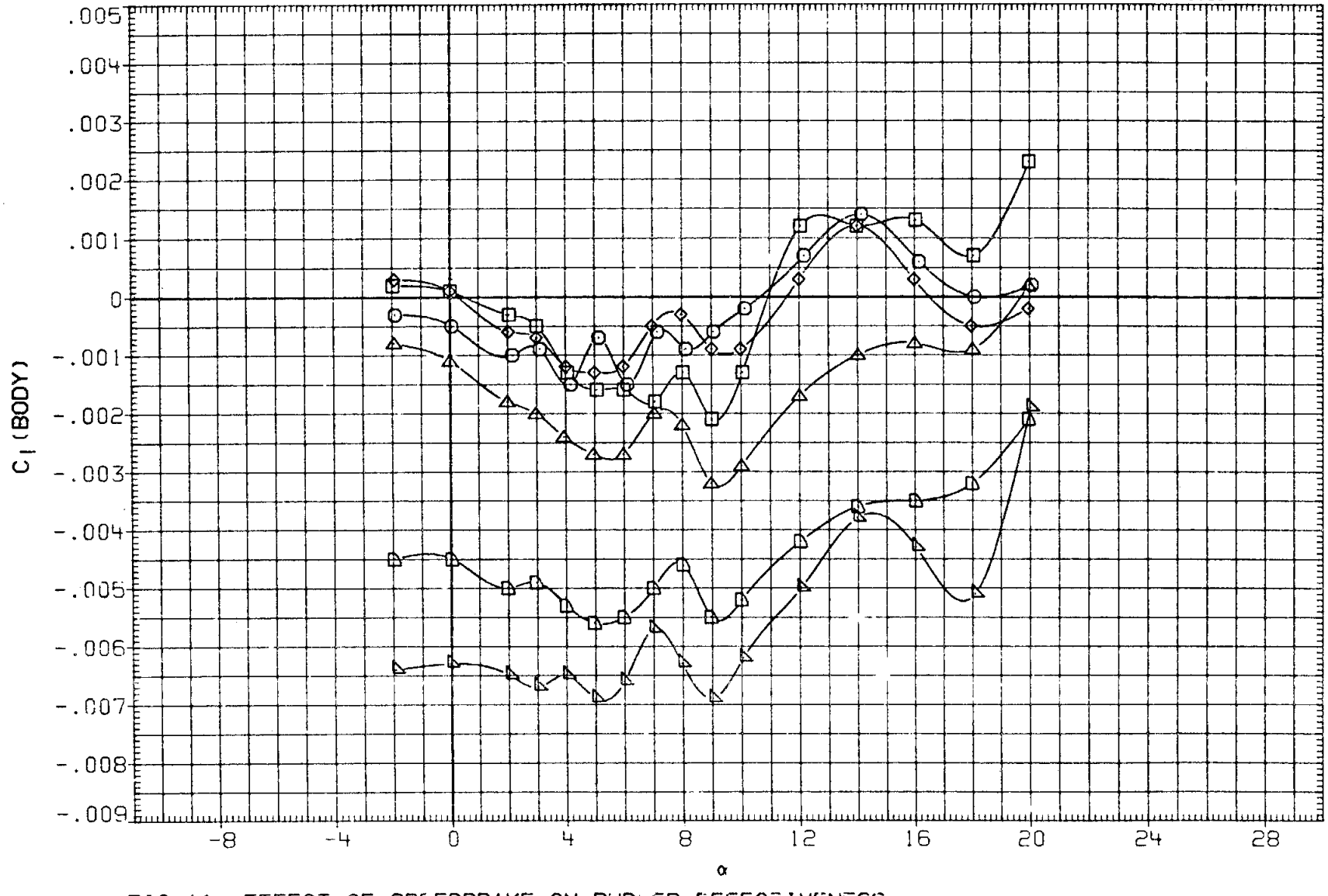

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

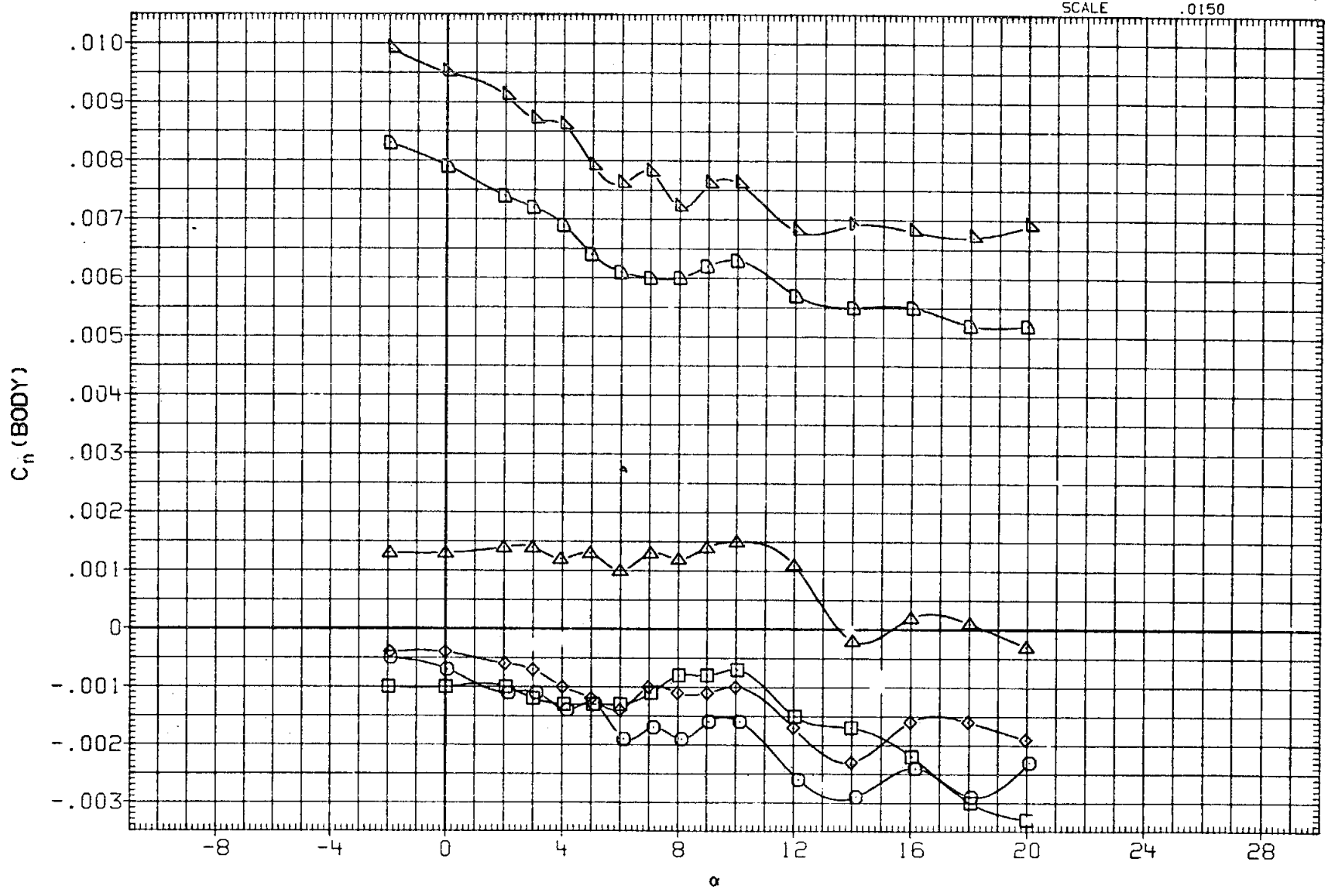

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	D	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

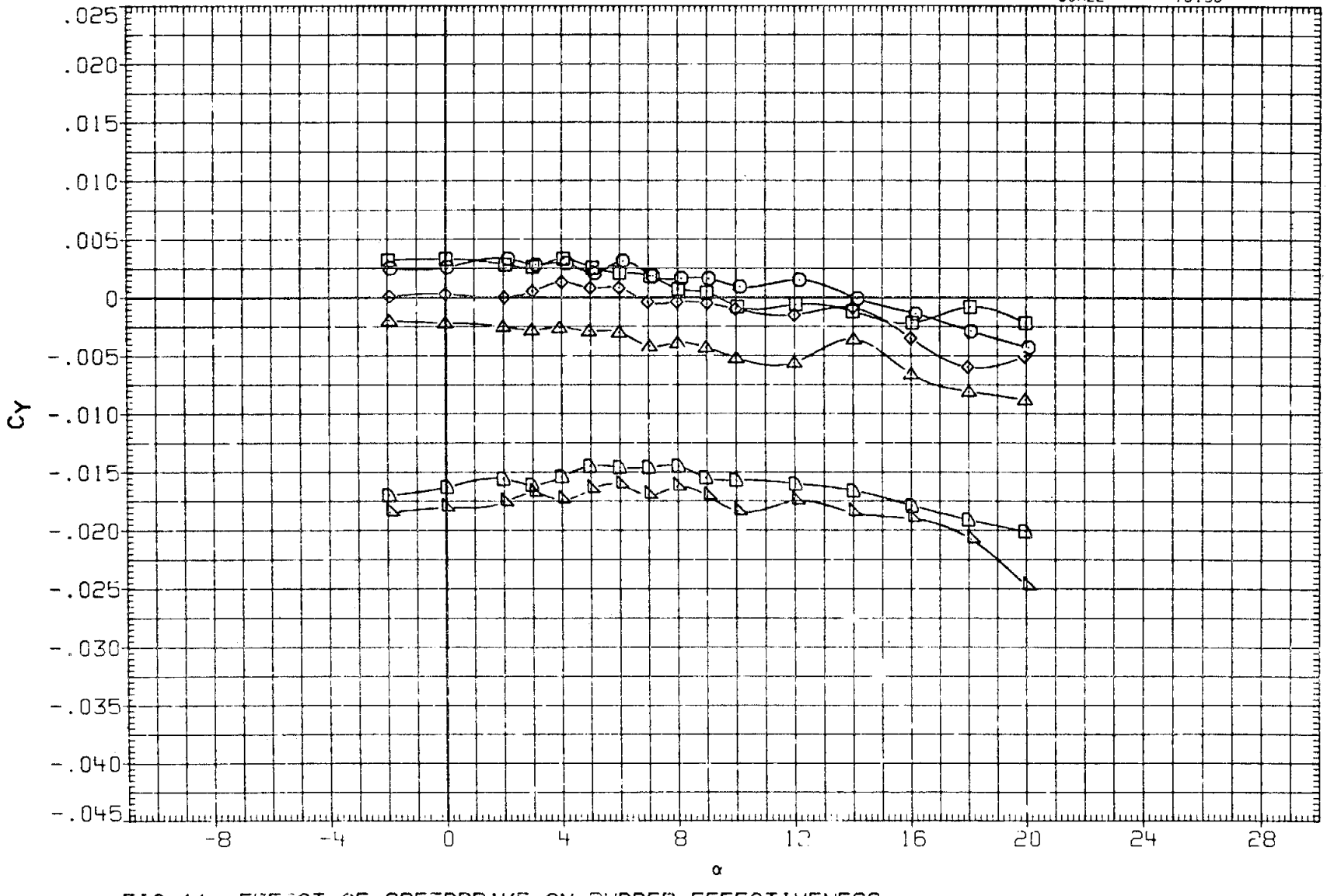

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
P2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◺	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	44.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

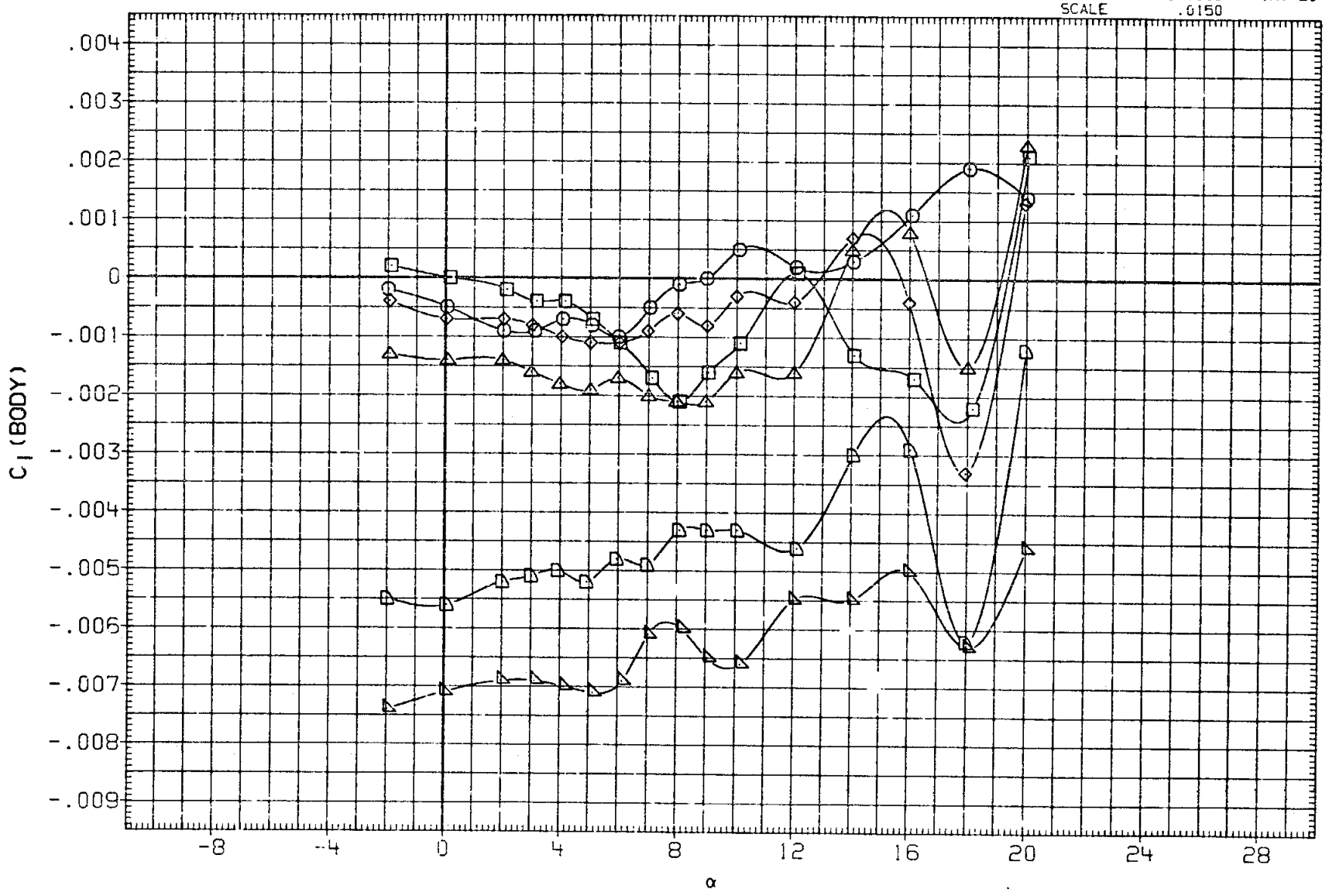

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◺	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

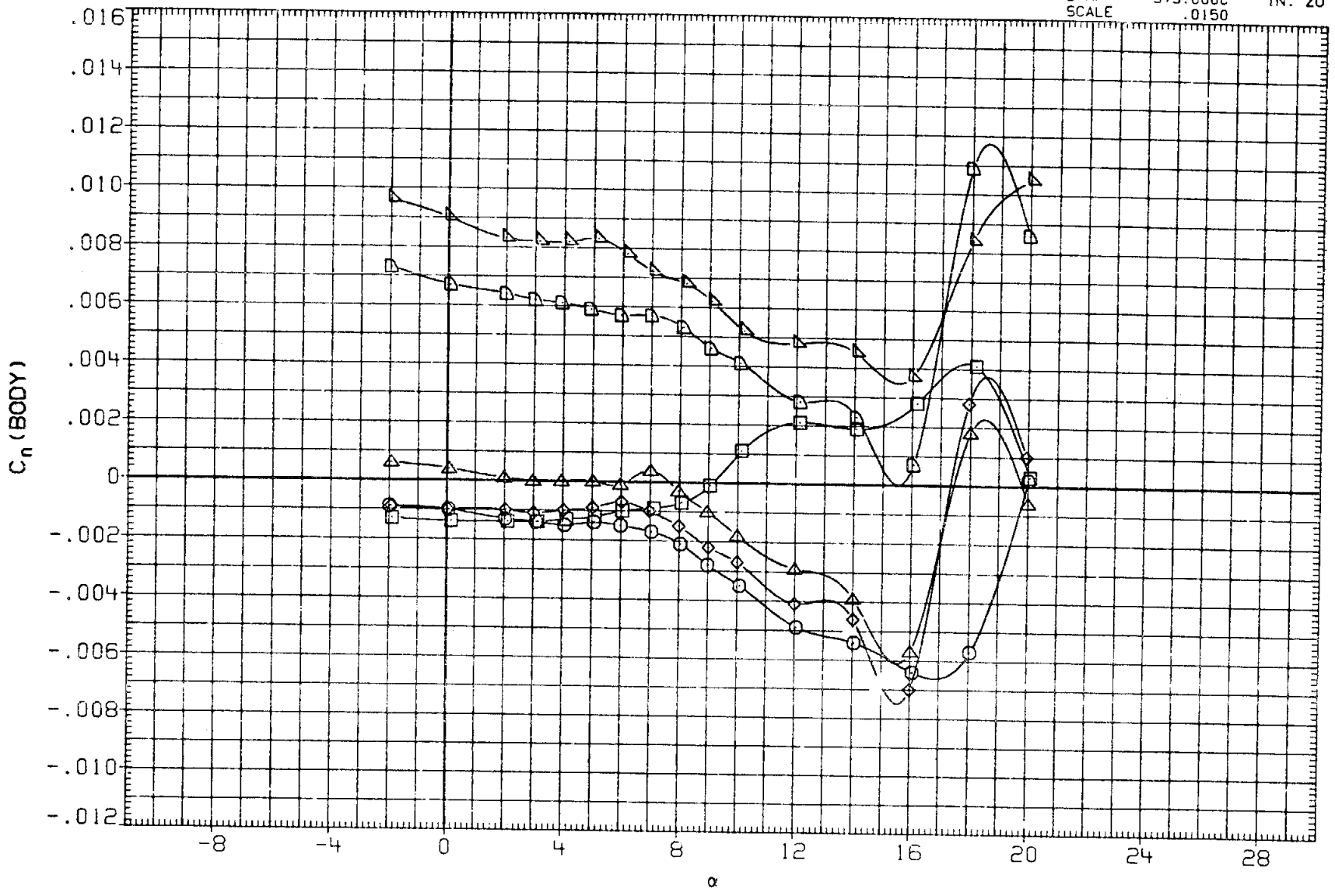

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B065	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

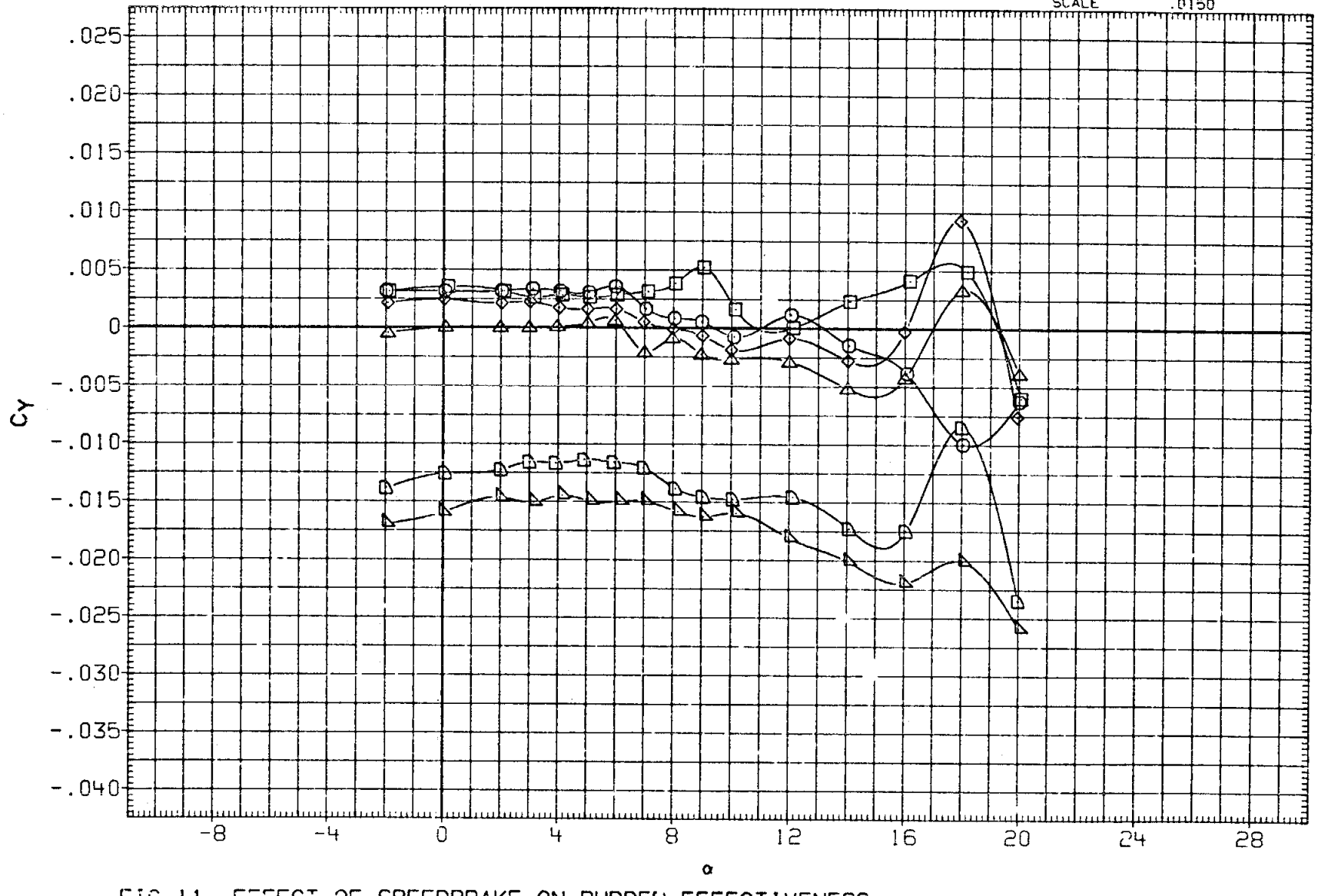

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B075	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	⌂	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

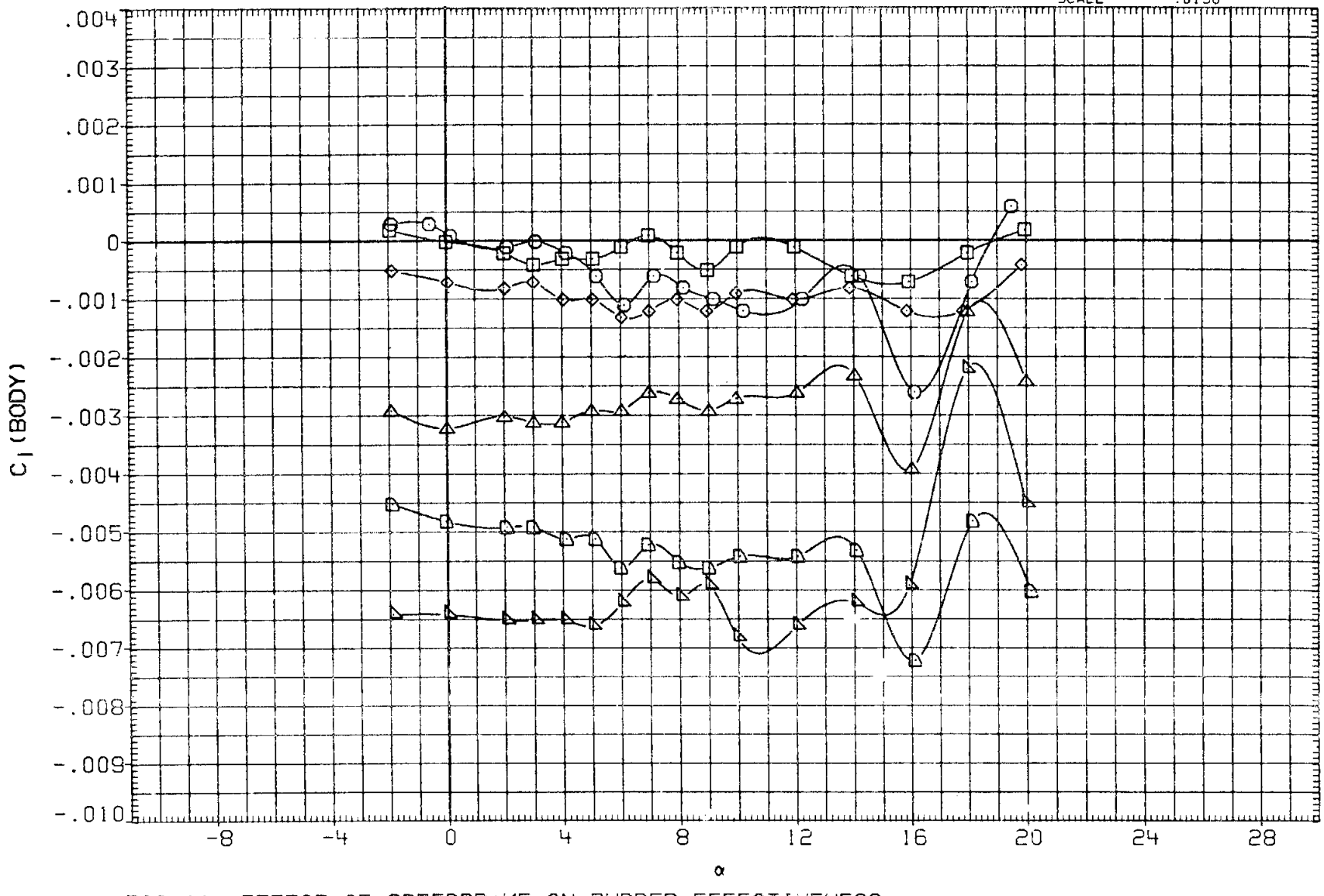

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B075	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

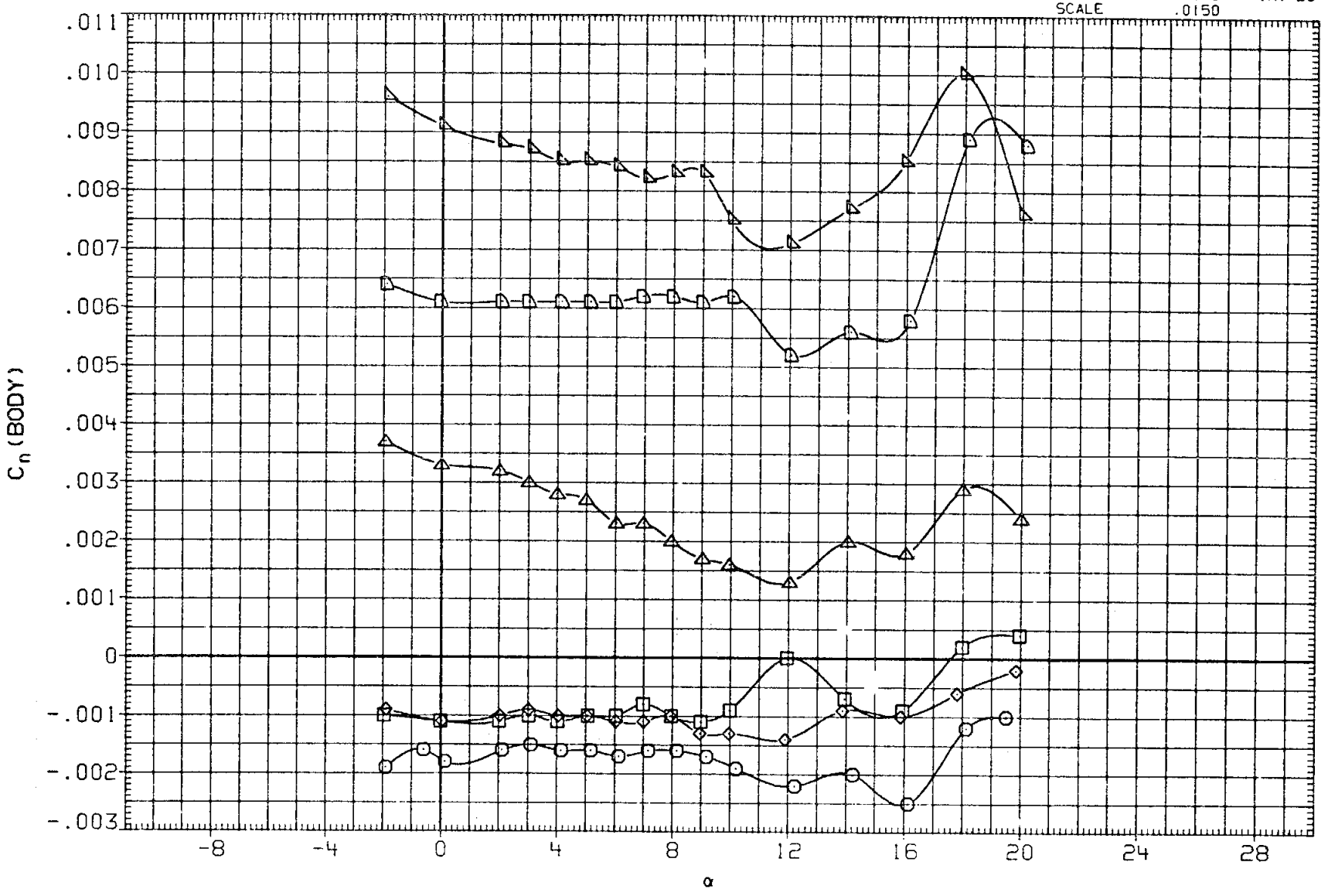

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B131	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B075	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B138	◺	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

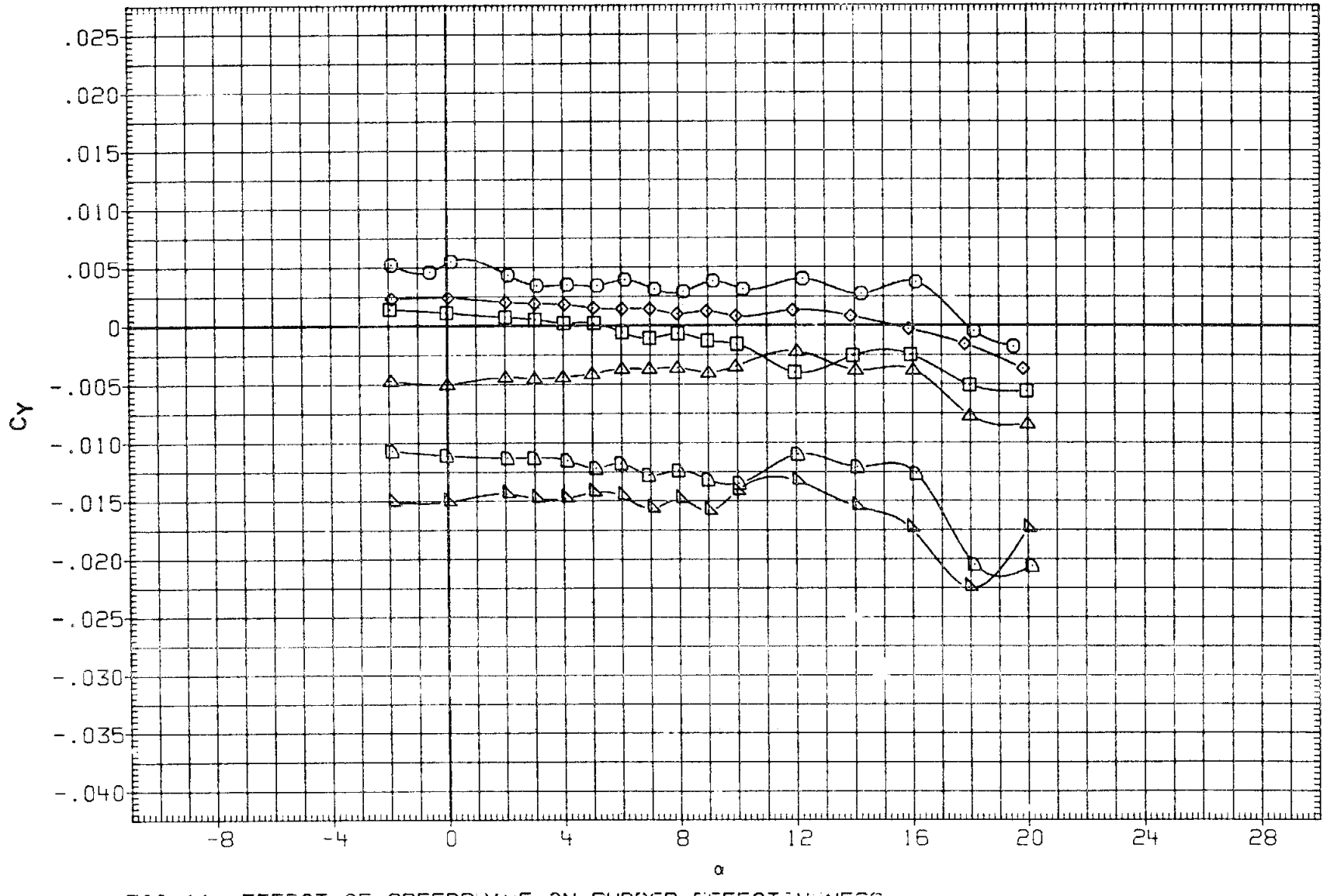

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B062	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B135	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

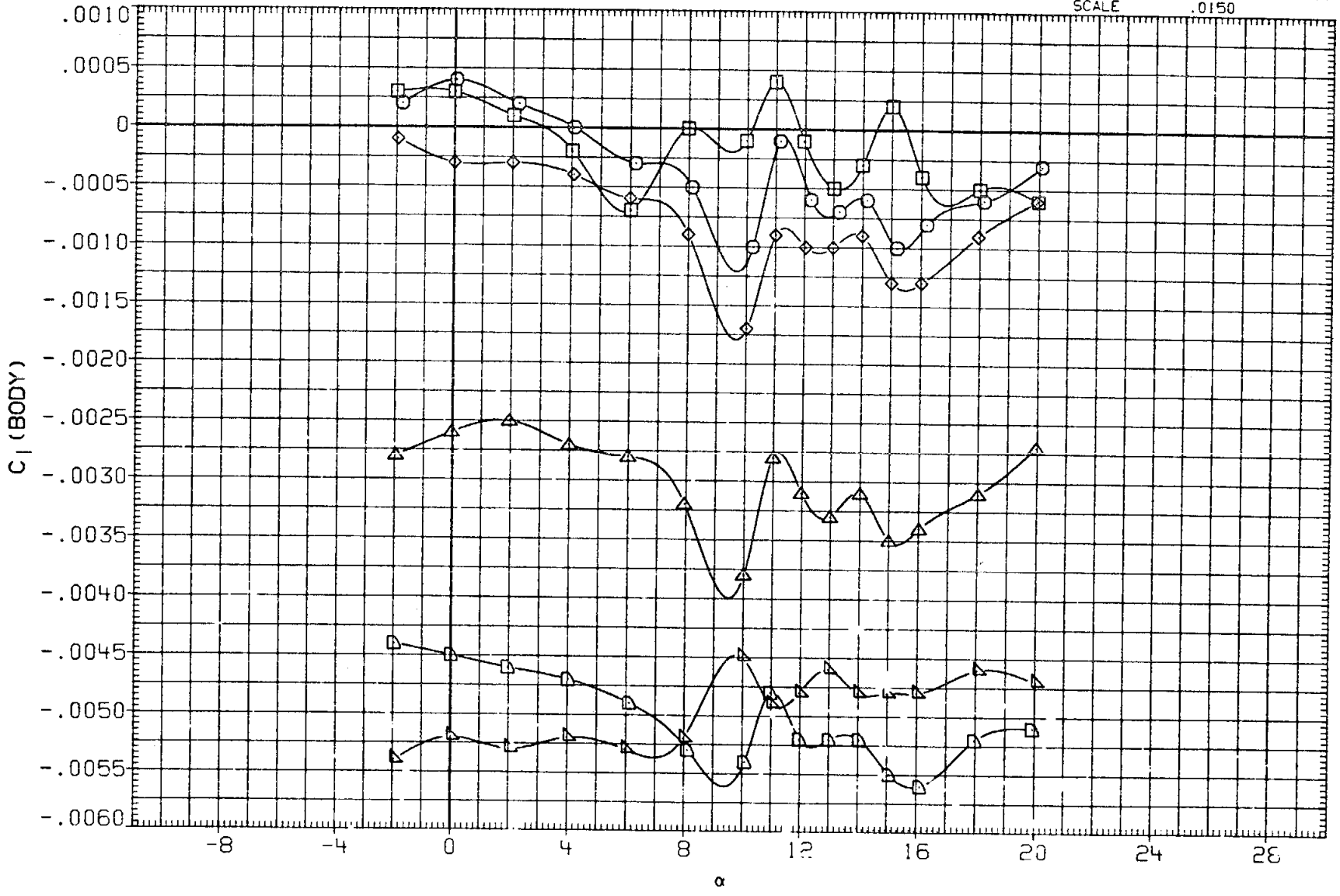

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R28062	▷	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R28135	D	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

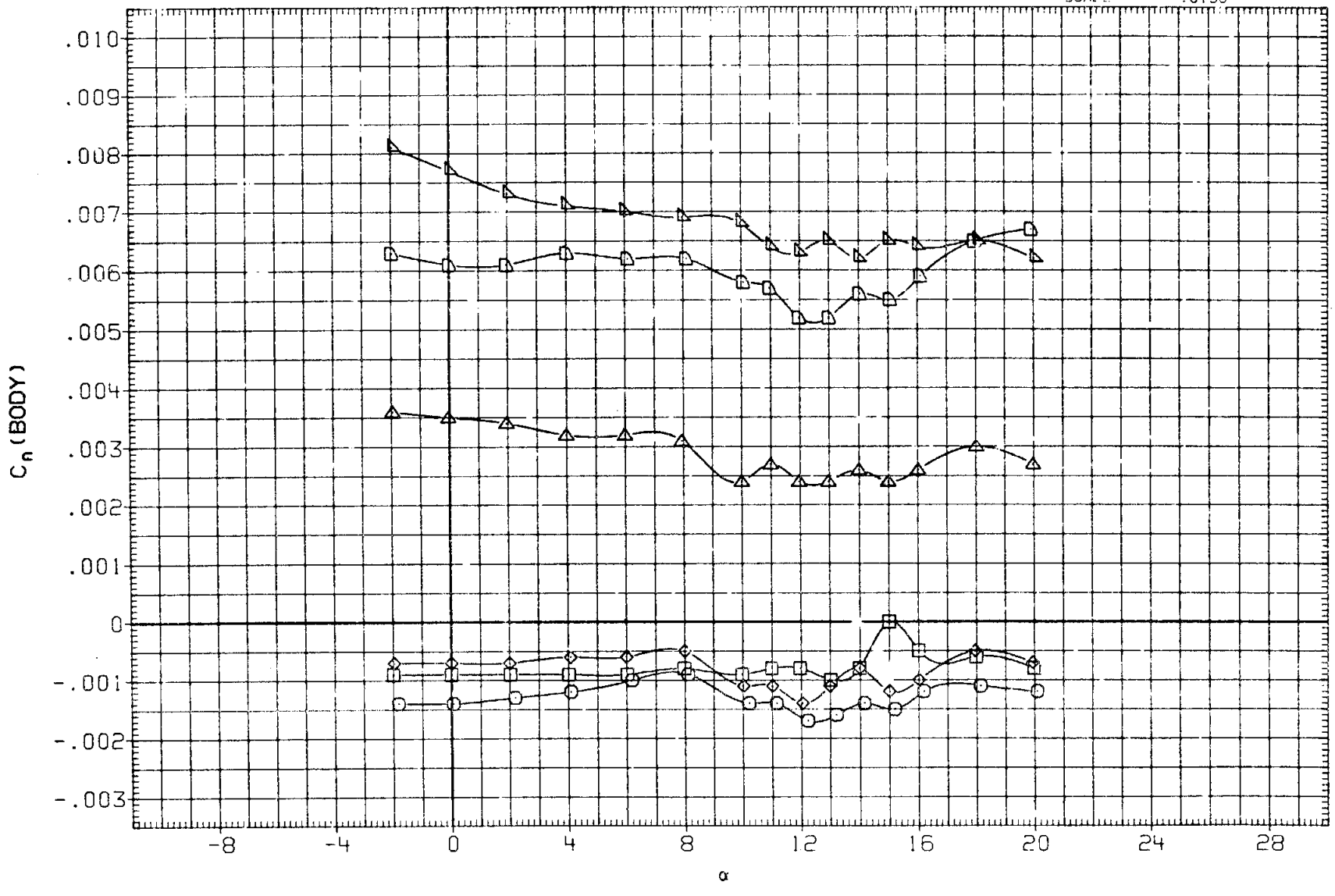

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B127	△	ARC 200-1 11(LA77) OV101	-5.000	.000	.000	.000
R2B062	◺	ARC 200-1 11(LA77) OV101	-5.000	25.000	.000	.000
R2B135	◻	ARC 200-1 11(LA77) OV101	-5.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

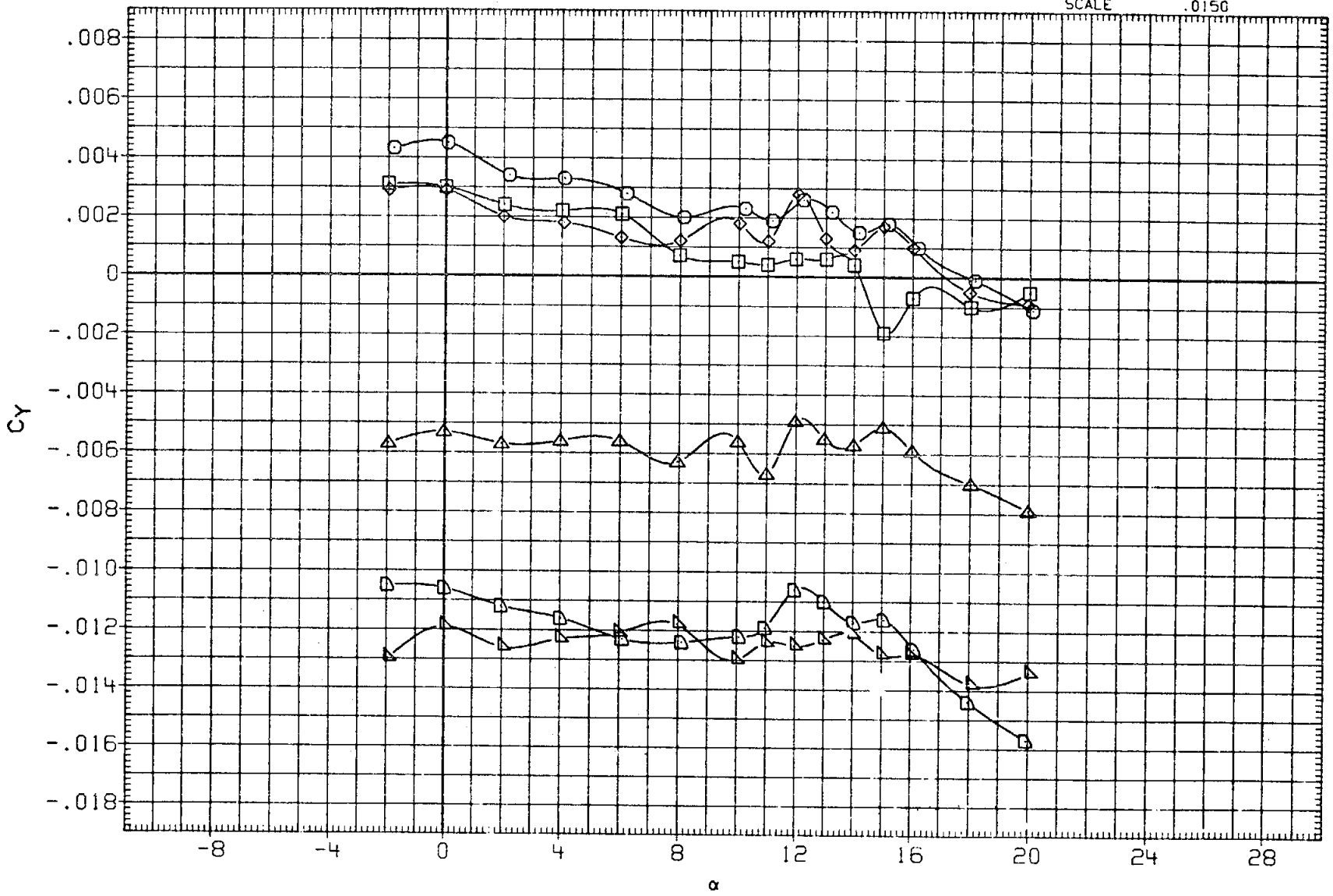

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B042	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B093	D	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

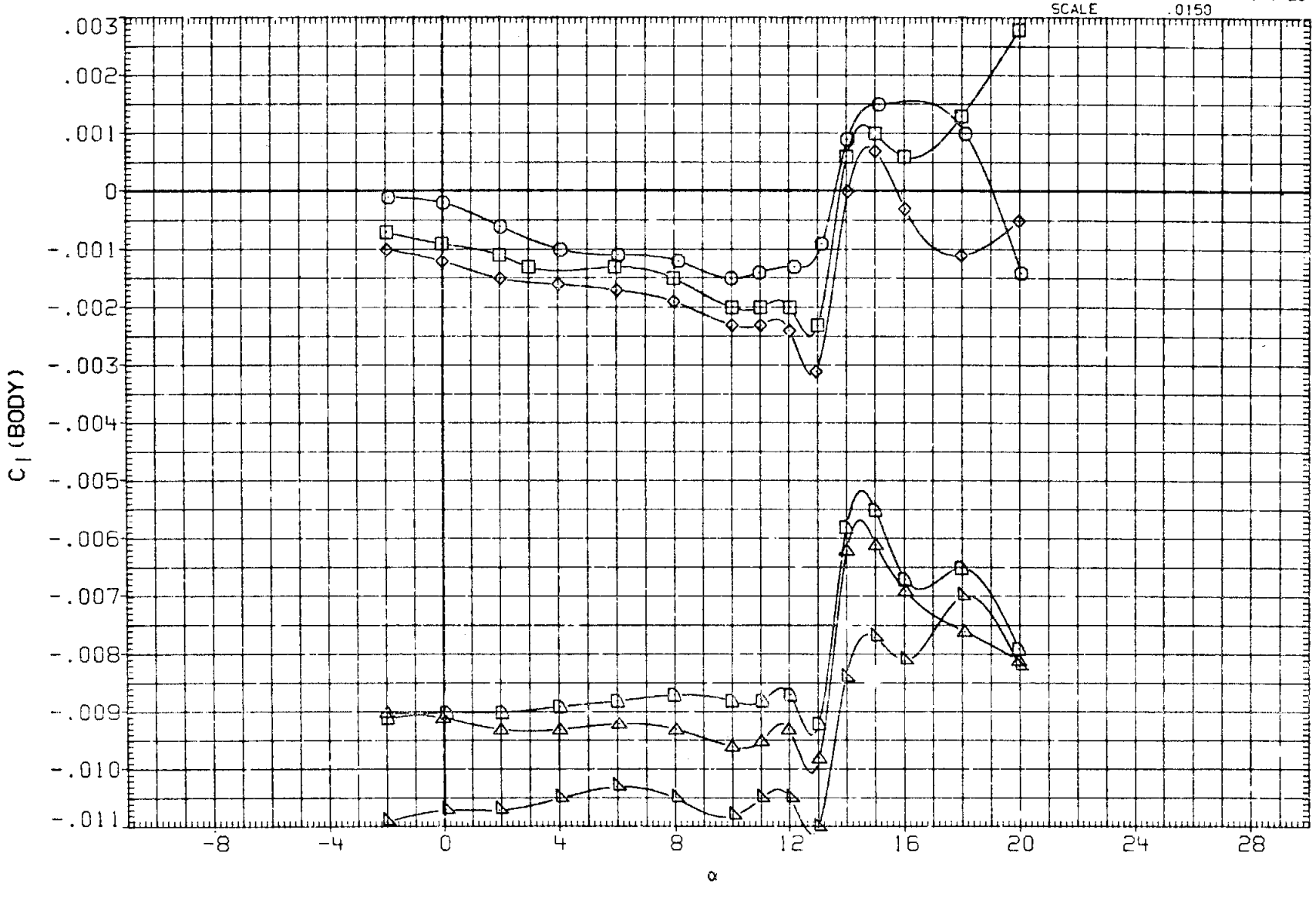

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B042	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B093	D	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

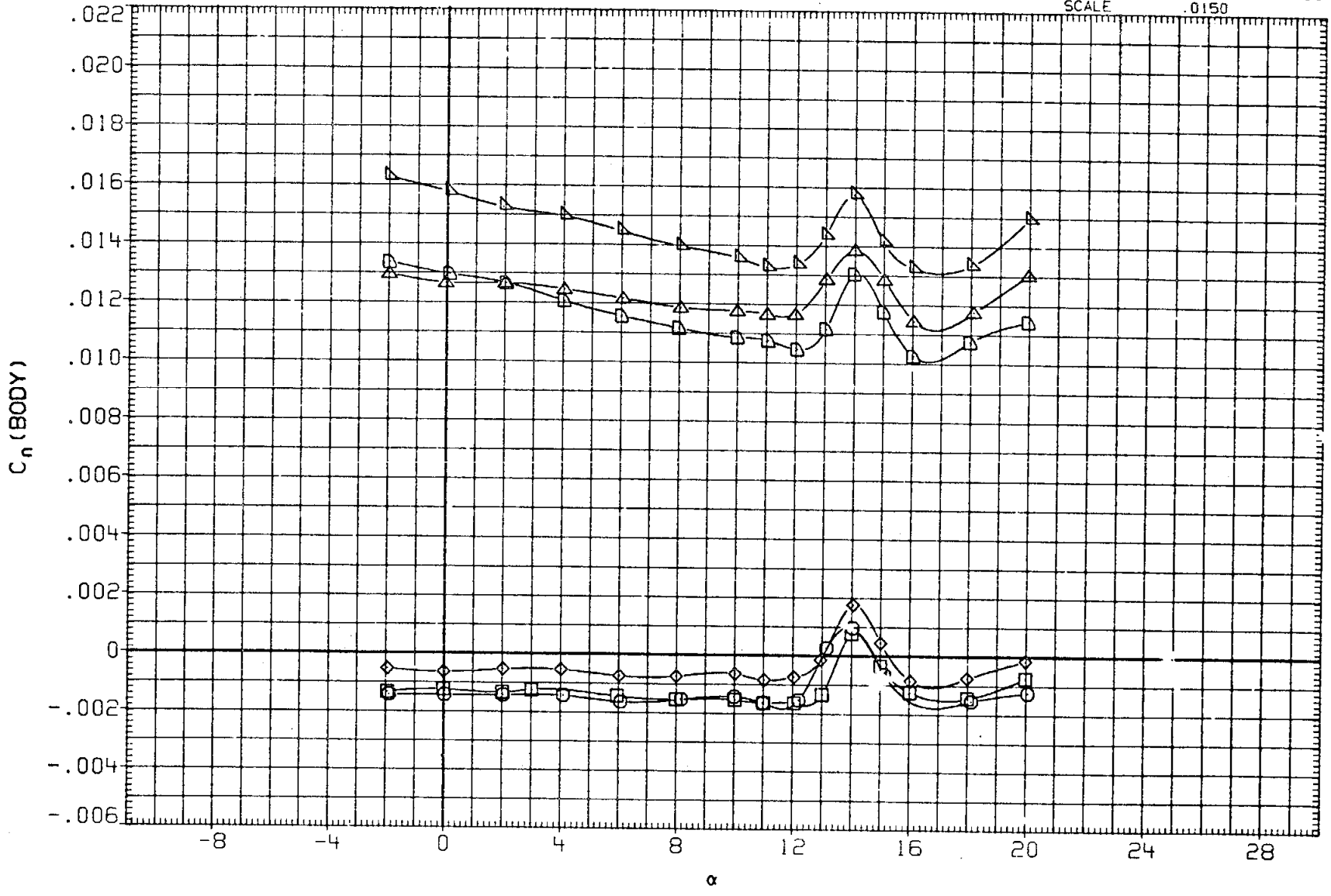

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B018	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B042	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B093	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

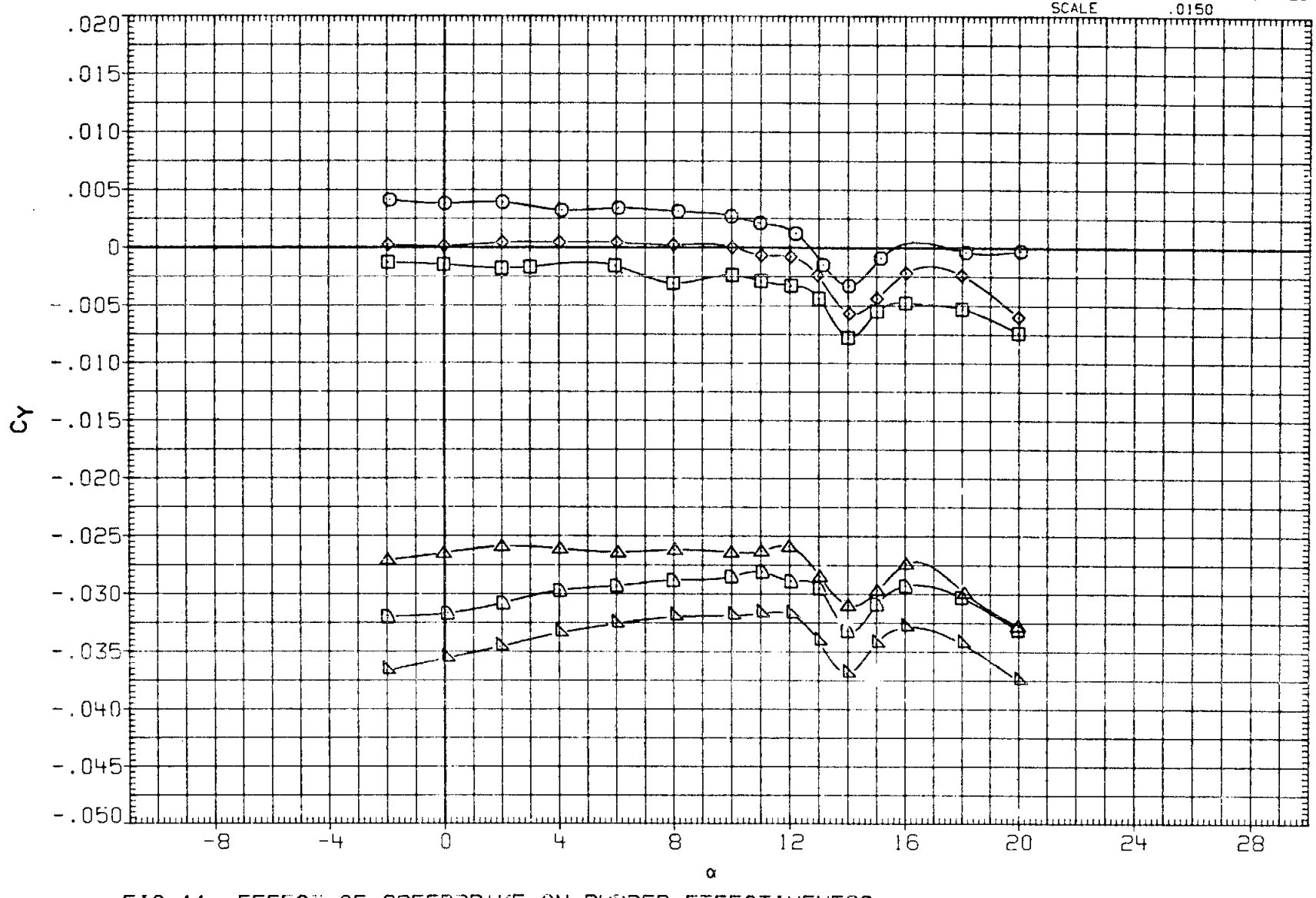

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	◗	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

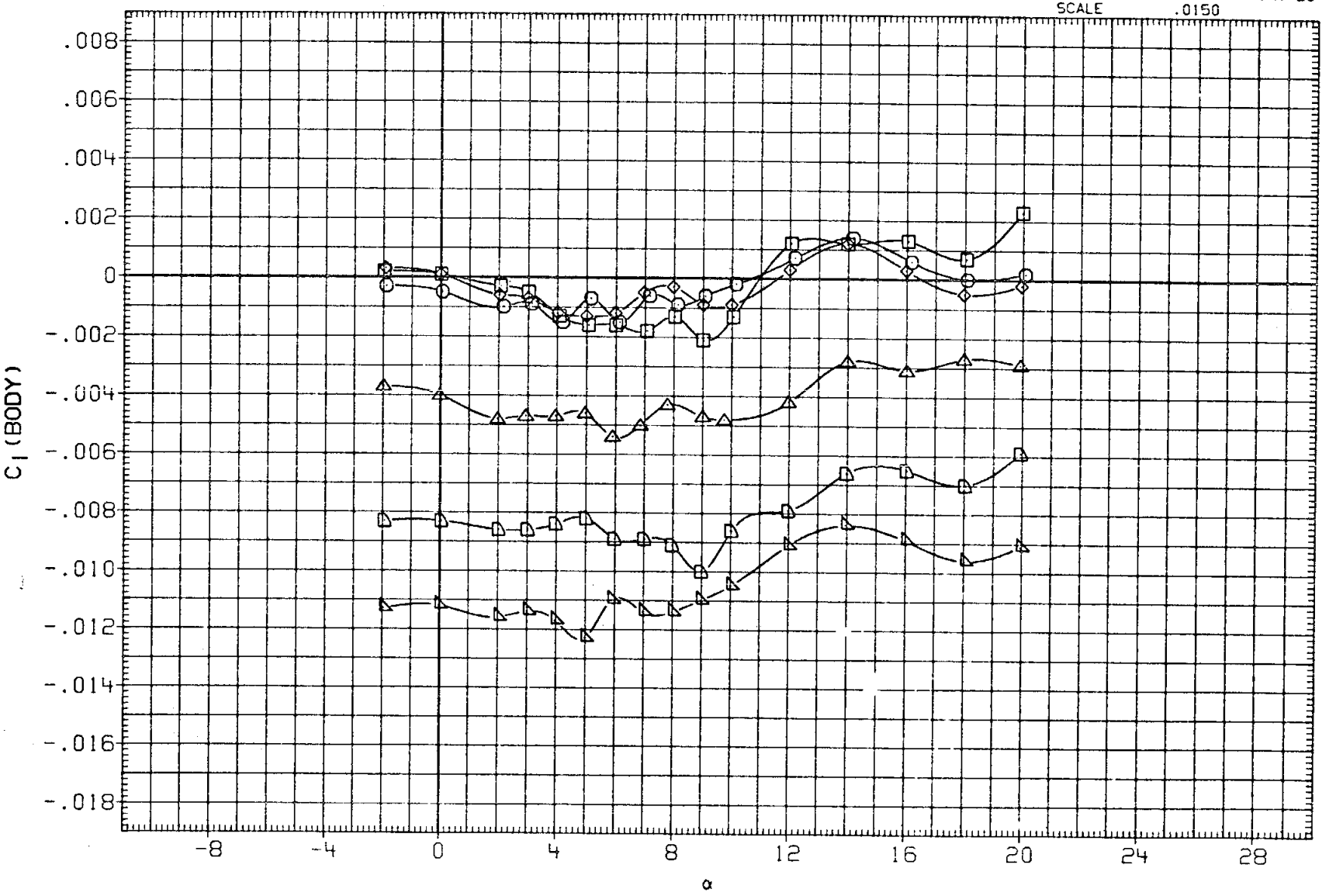

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

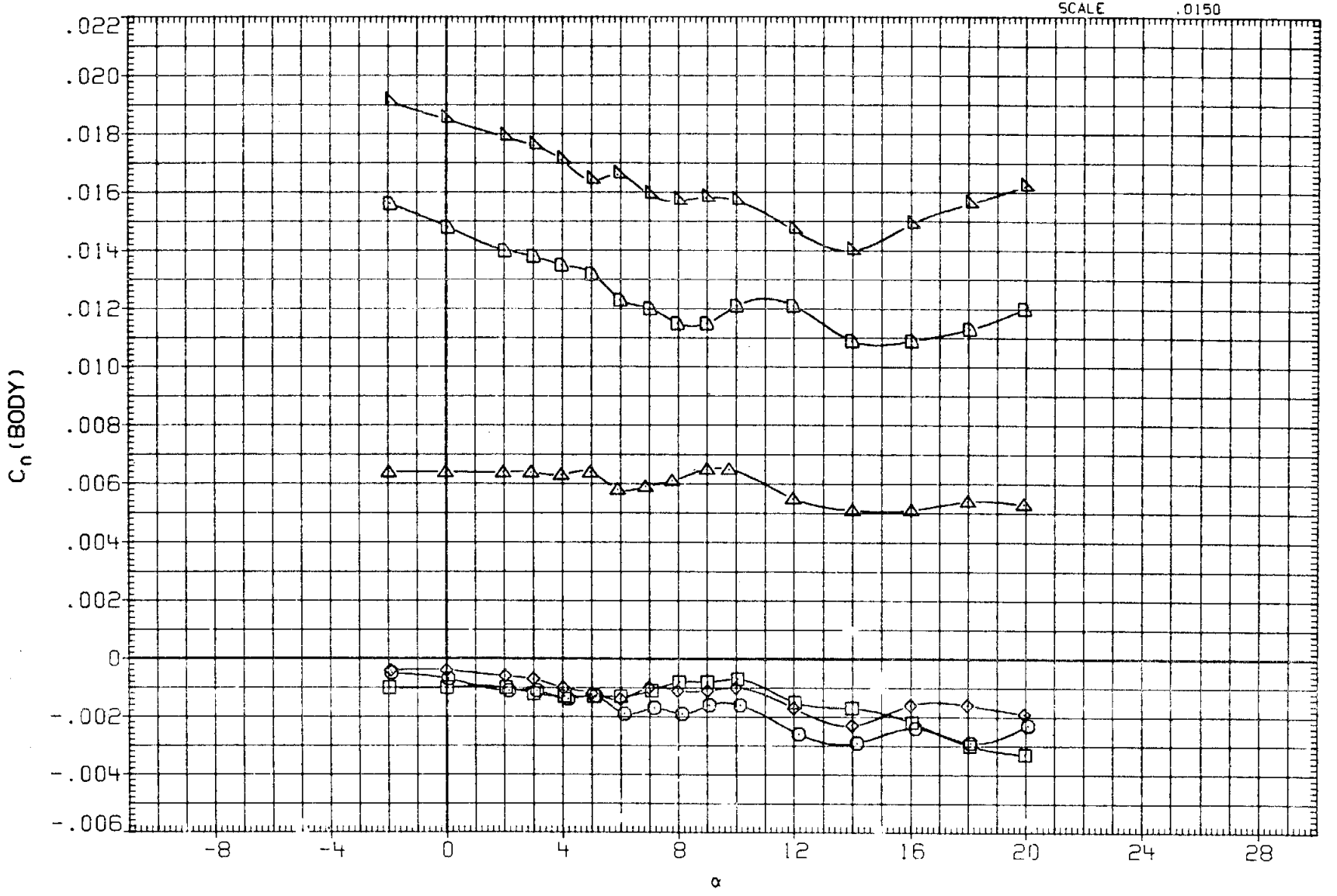

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPOBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	◺	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

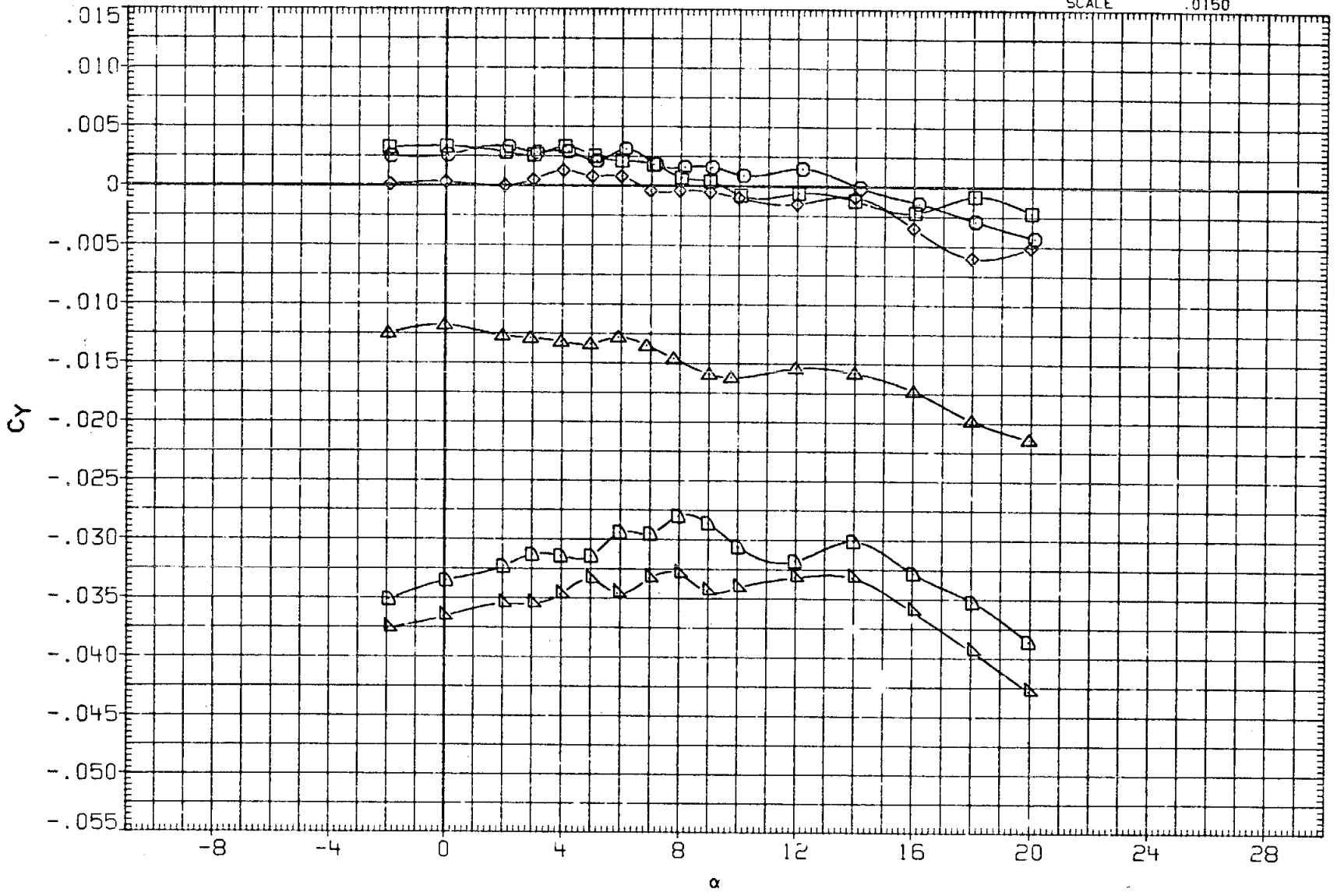

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPUBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B034	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	D	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

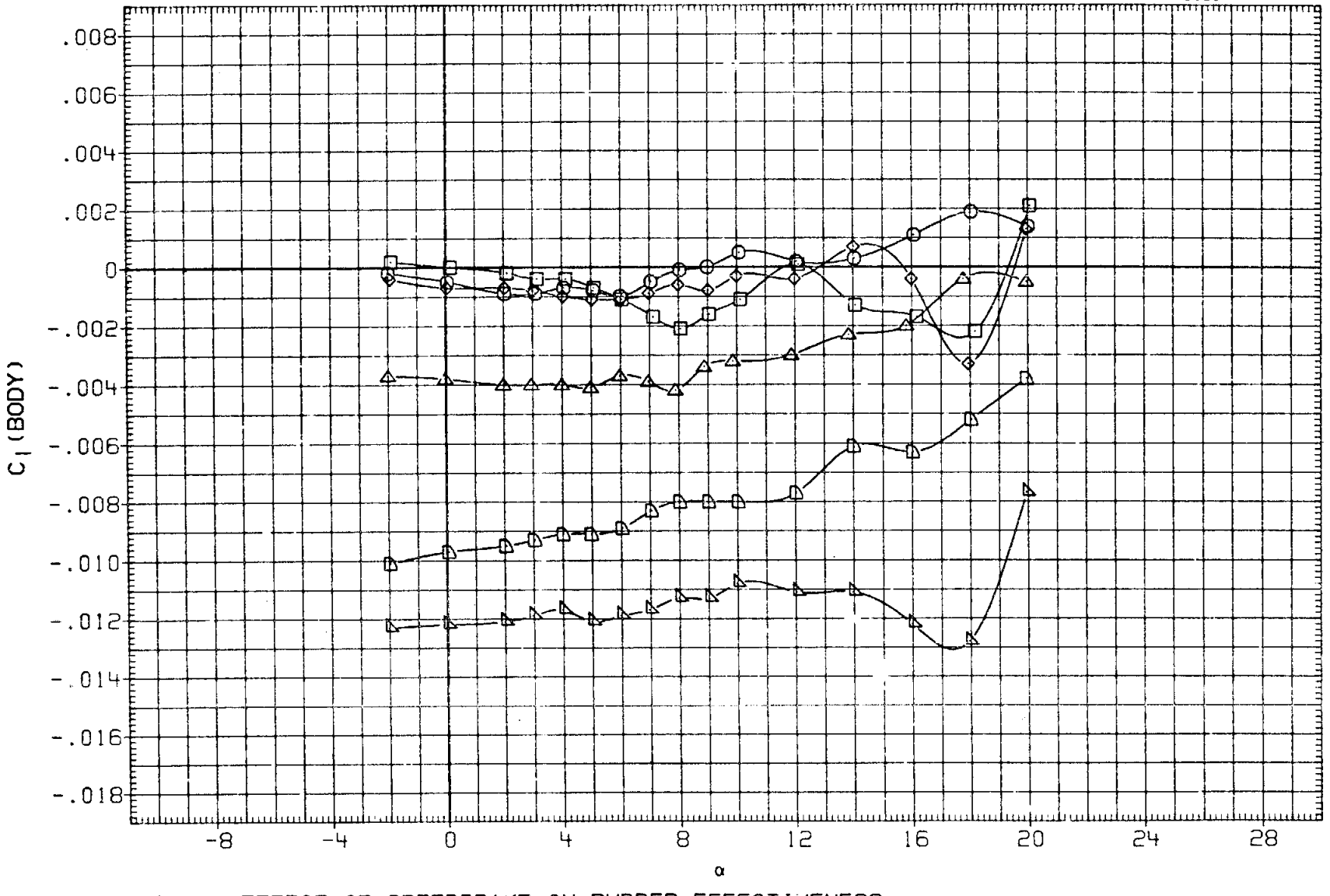

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

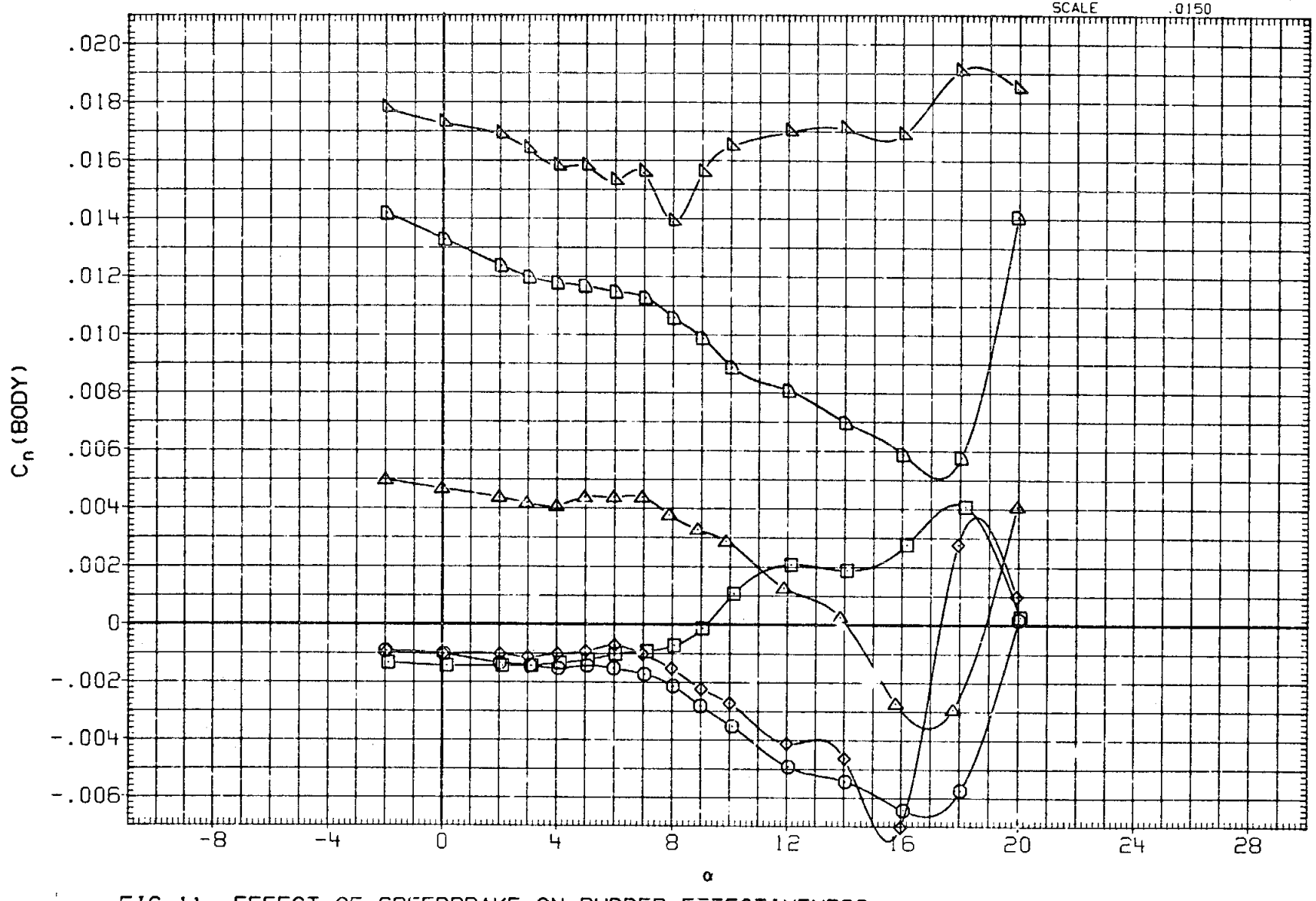

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R28047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R28097	◺	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	174.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

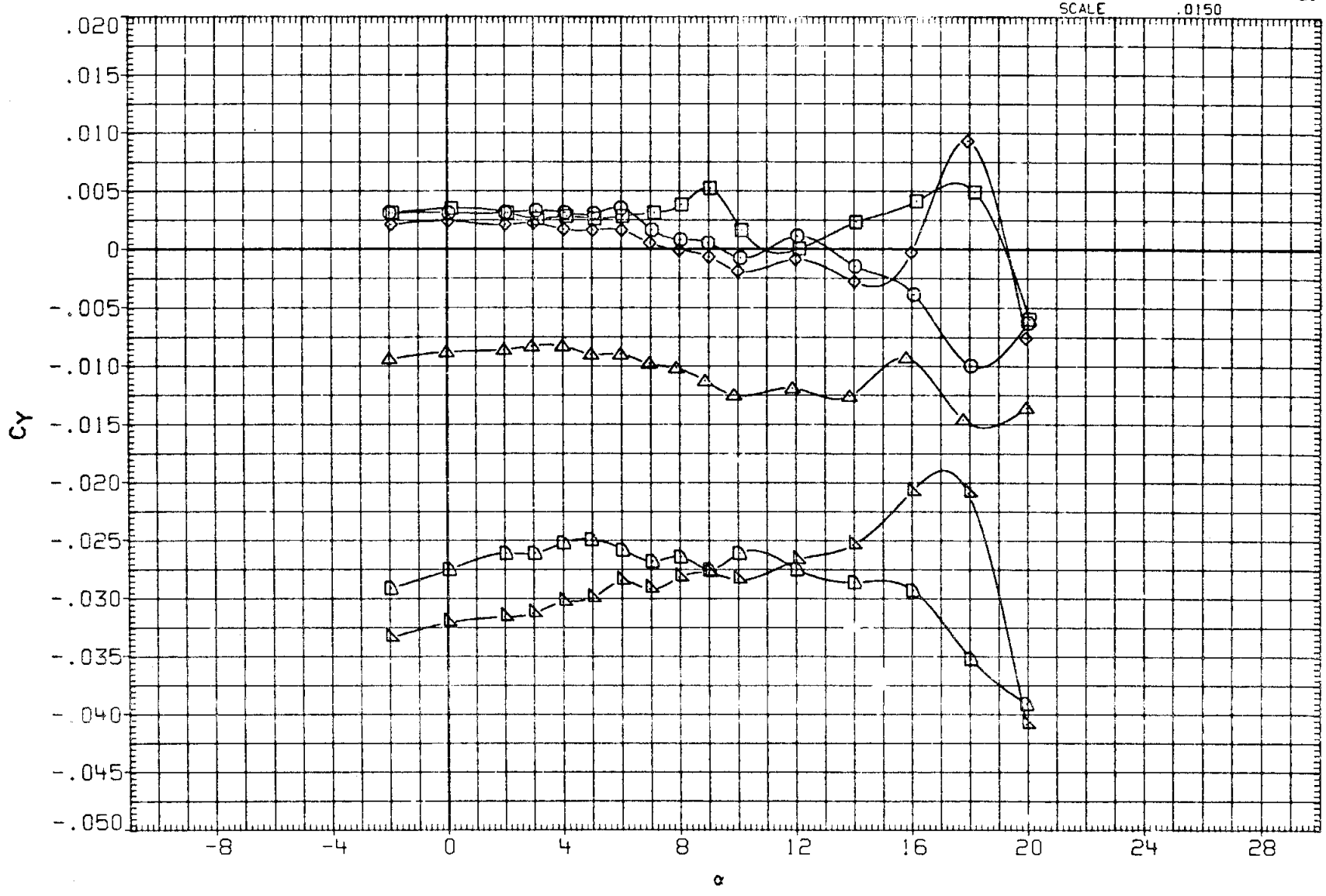

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	D	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

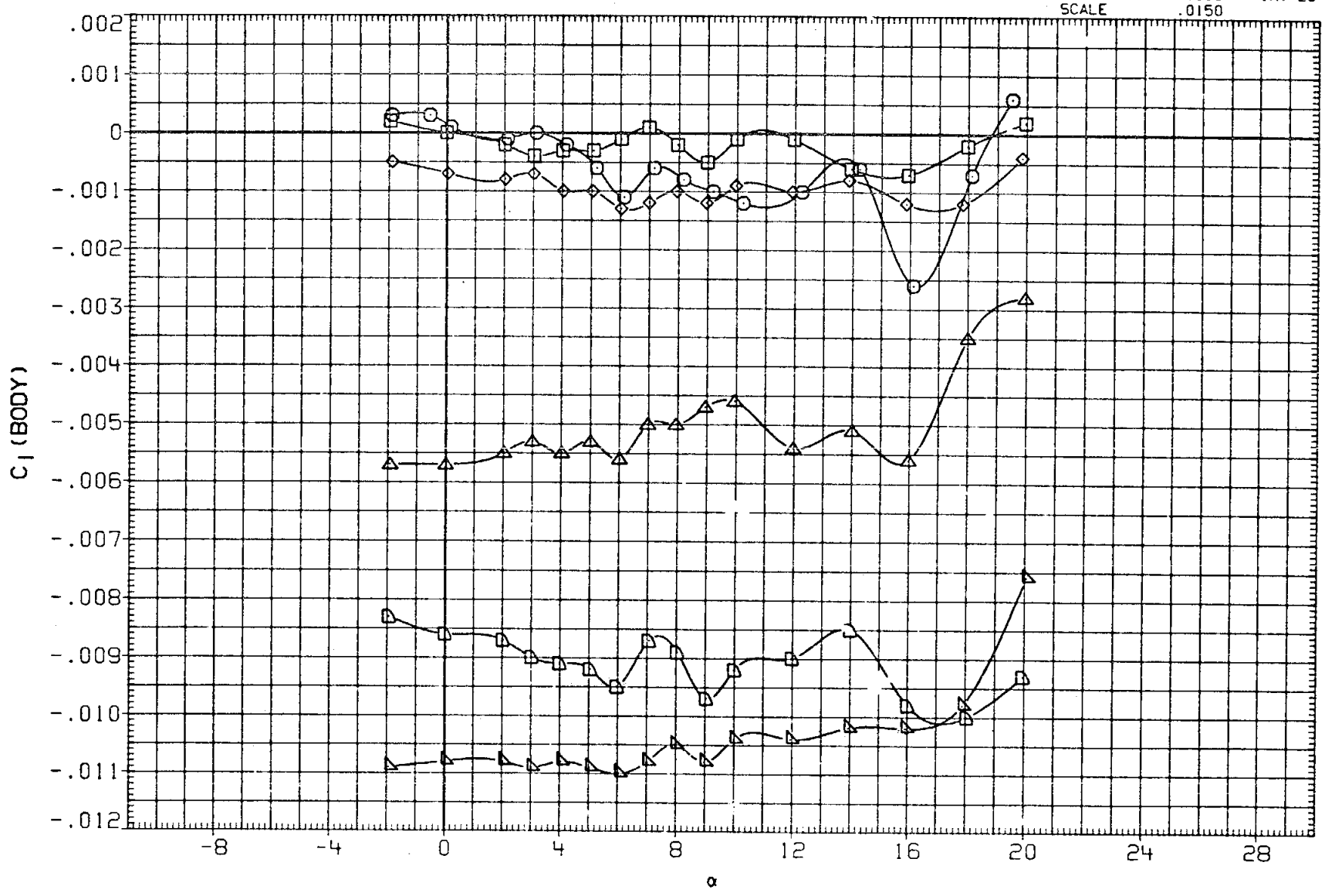

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

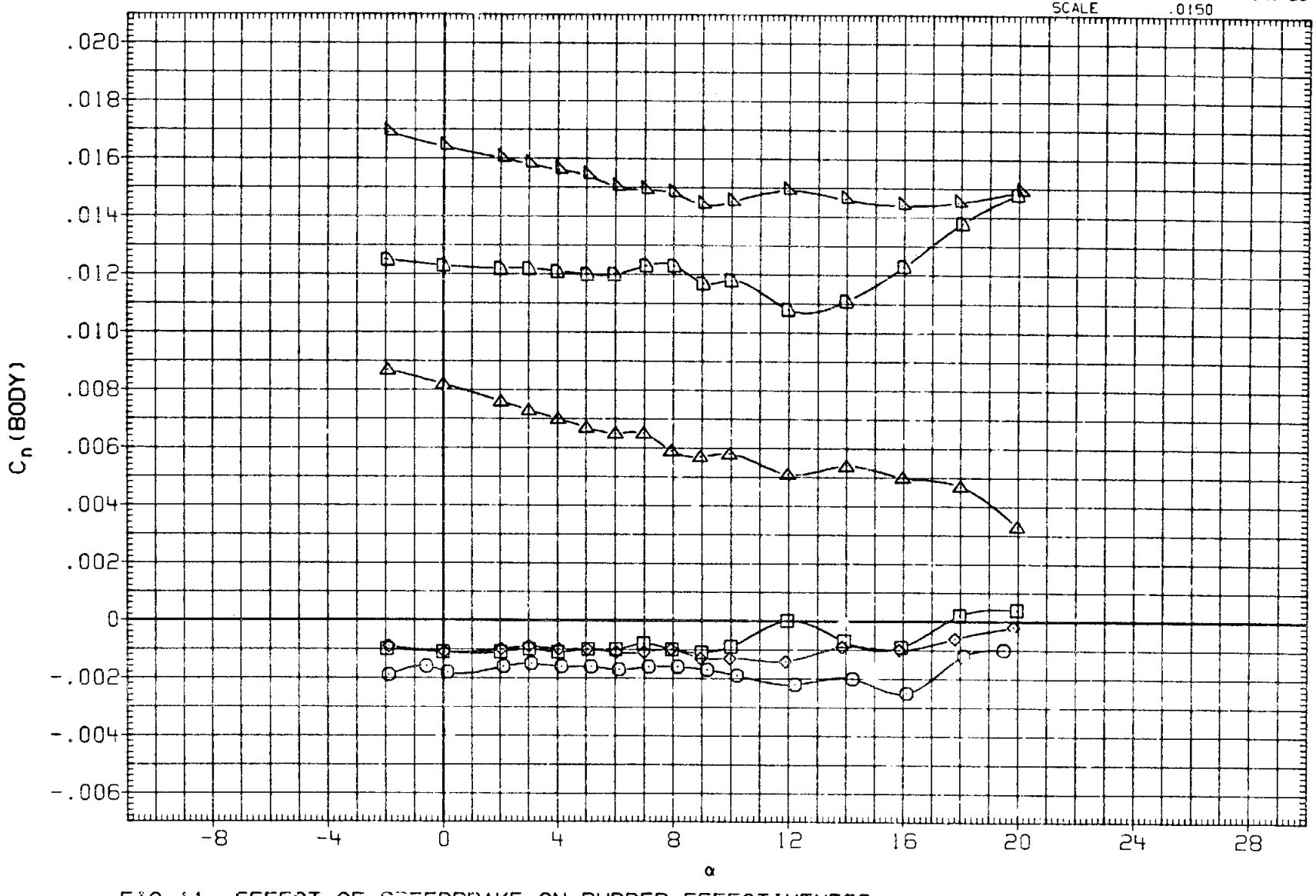

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B084	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B121	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B047	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B097	D	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

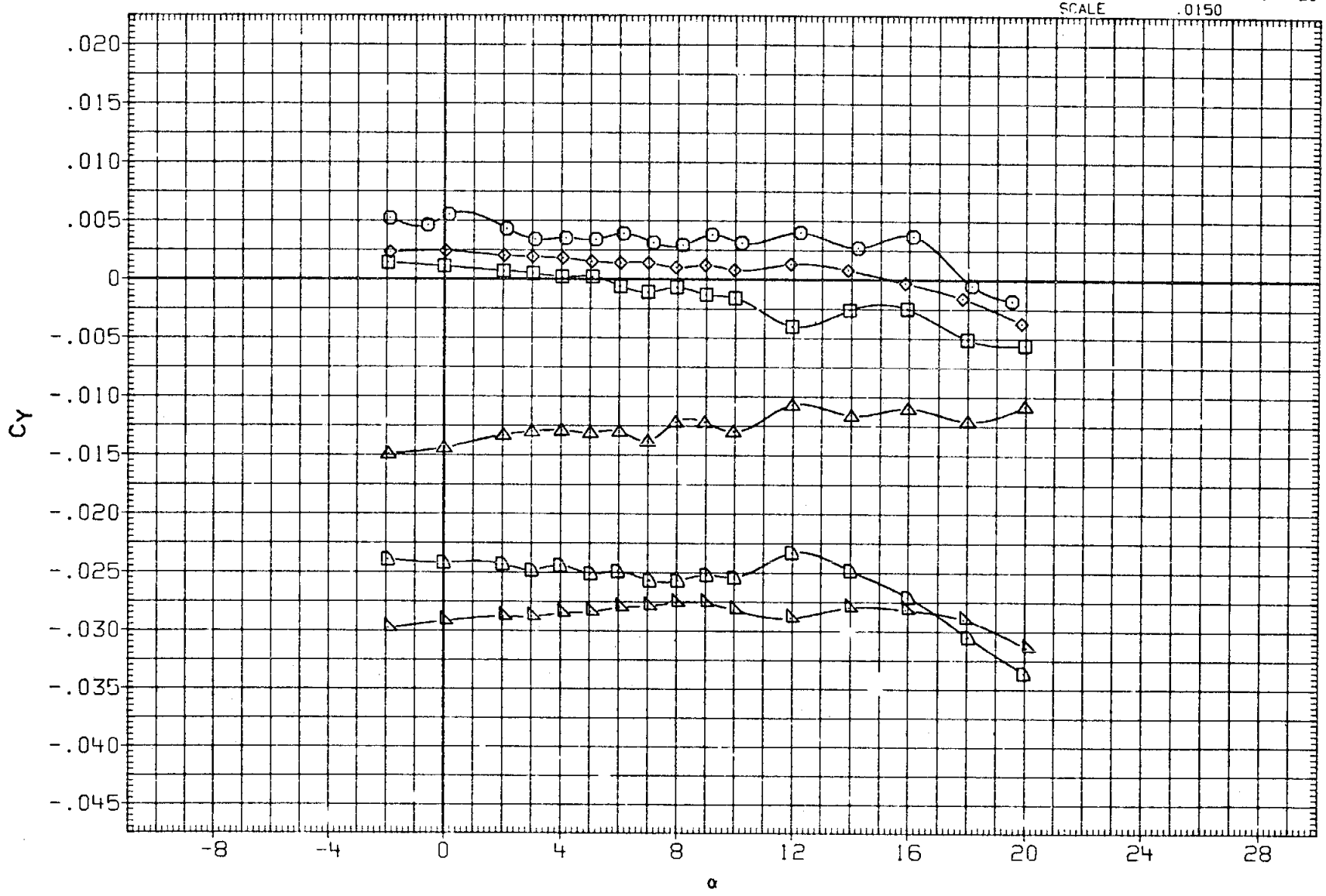

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B039	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B093	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

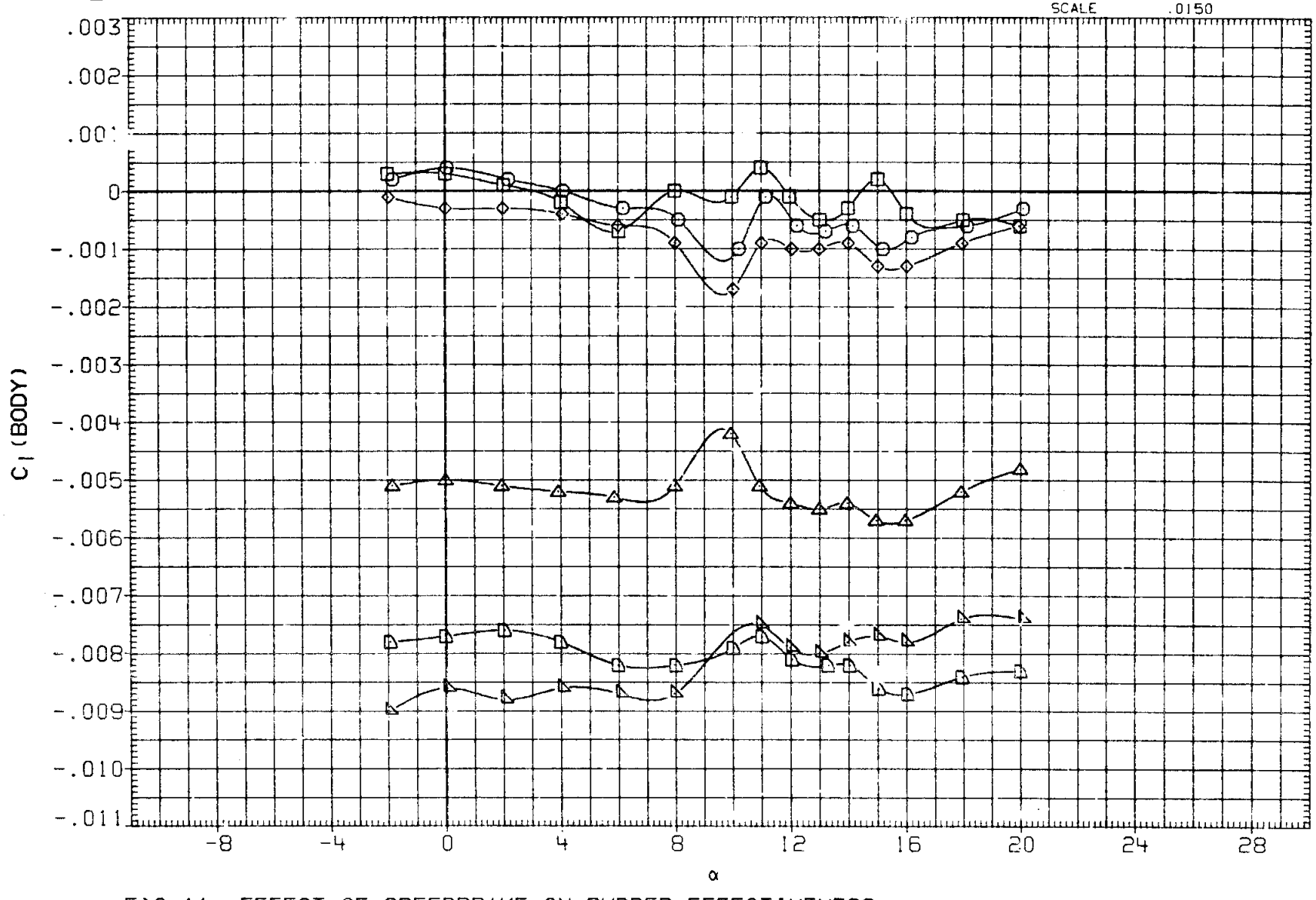

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R2B001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R2B117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R2B039	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R2B093	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

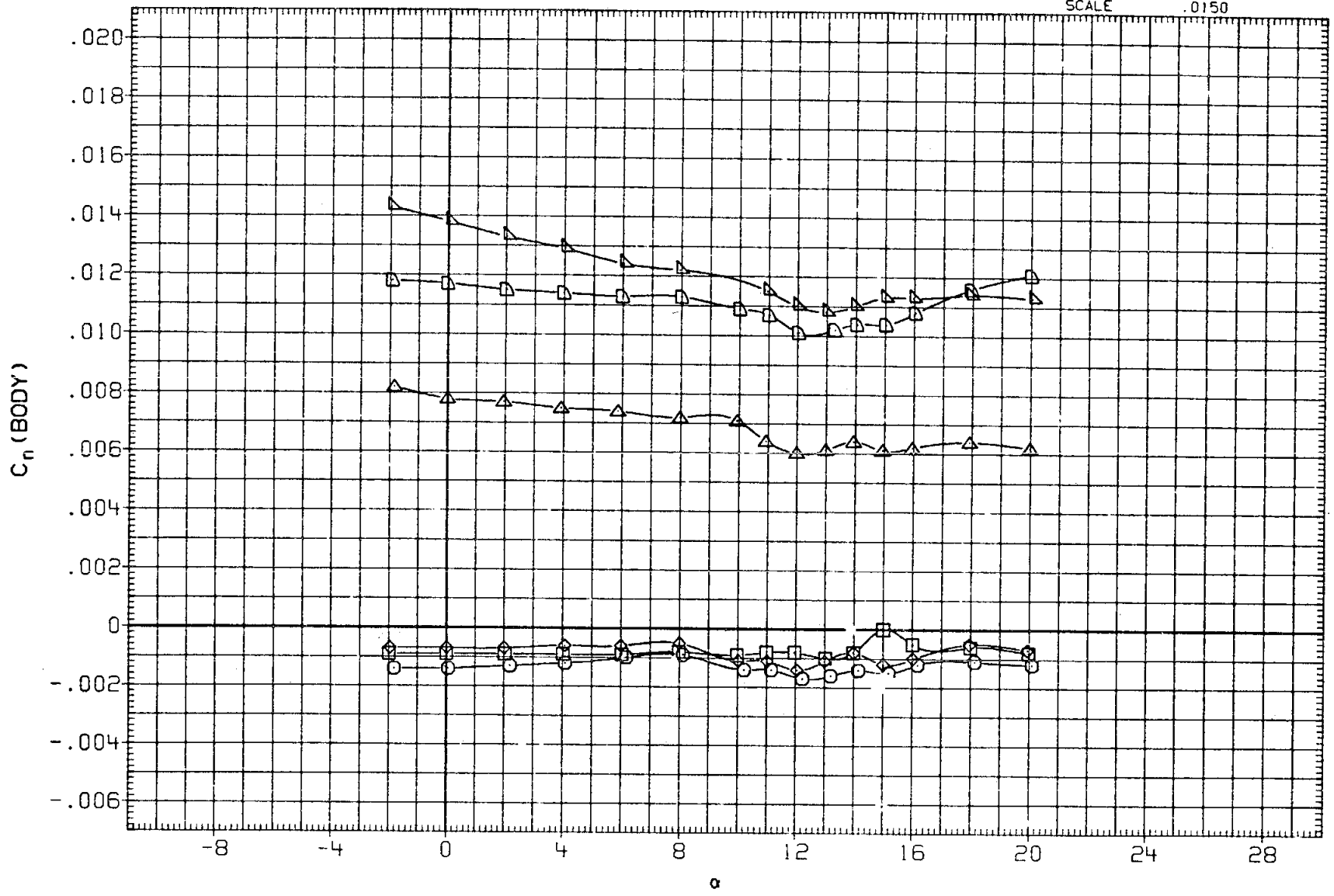

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000
R28001	□	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28080	◇	ARC 200-1 11(LA77) OV101	.000	55.000	.000	.000
R28117	△	ARC 200-1 11(LA77) OV101	-10.000	.000	.000	.000
R28039	◺	ARC 200-1 11(LA77) OV101	-10.000	25.000	.000	.000
R28093	◻	ARC 200-1 11(LA77) OV101	-10.000	55.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

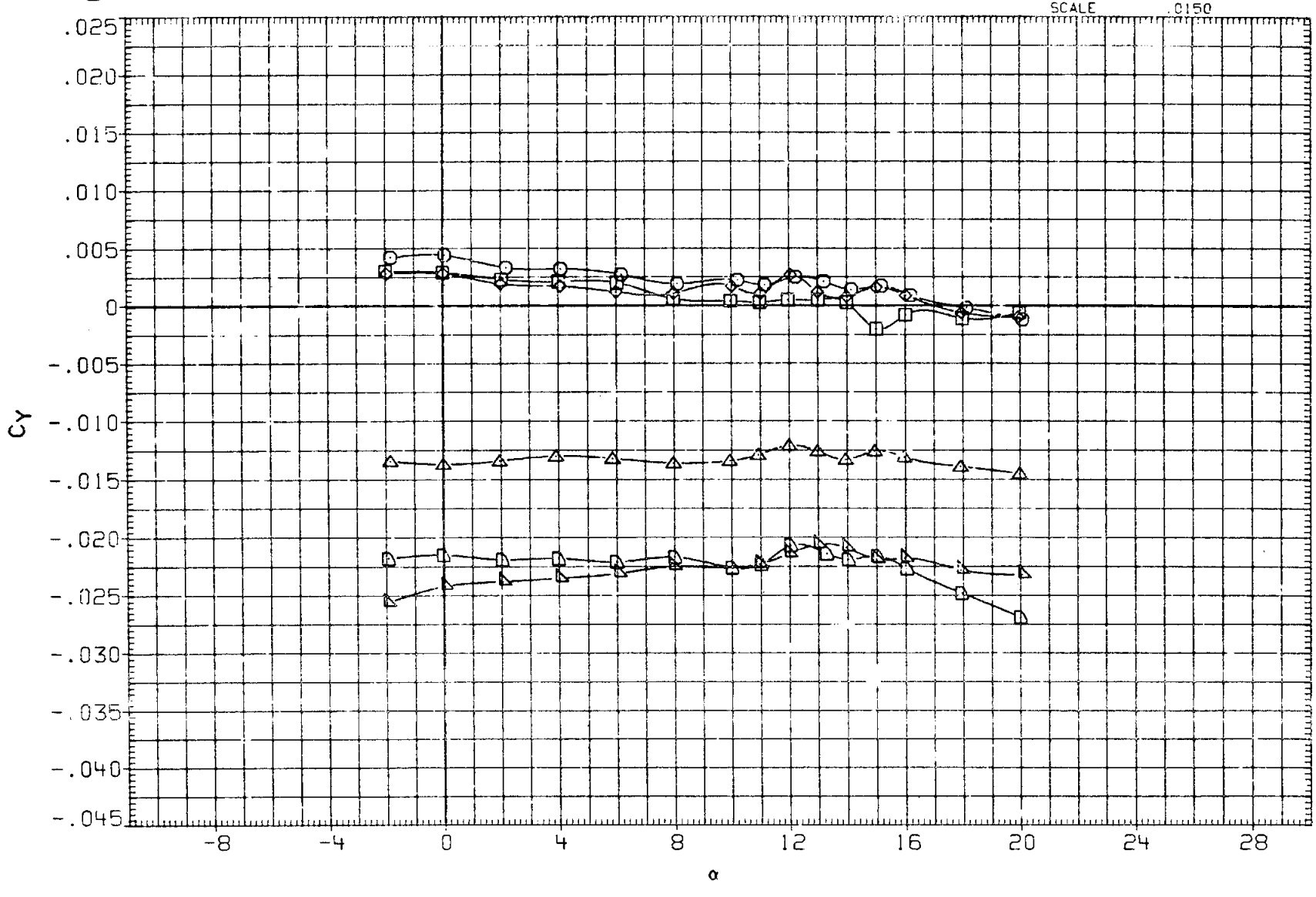

FIG.11 EFFECT OF SPEEDBRAKE ON RUDDER EFFECTIVENESS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R28127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R28117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R28104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R28118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

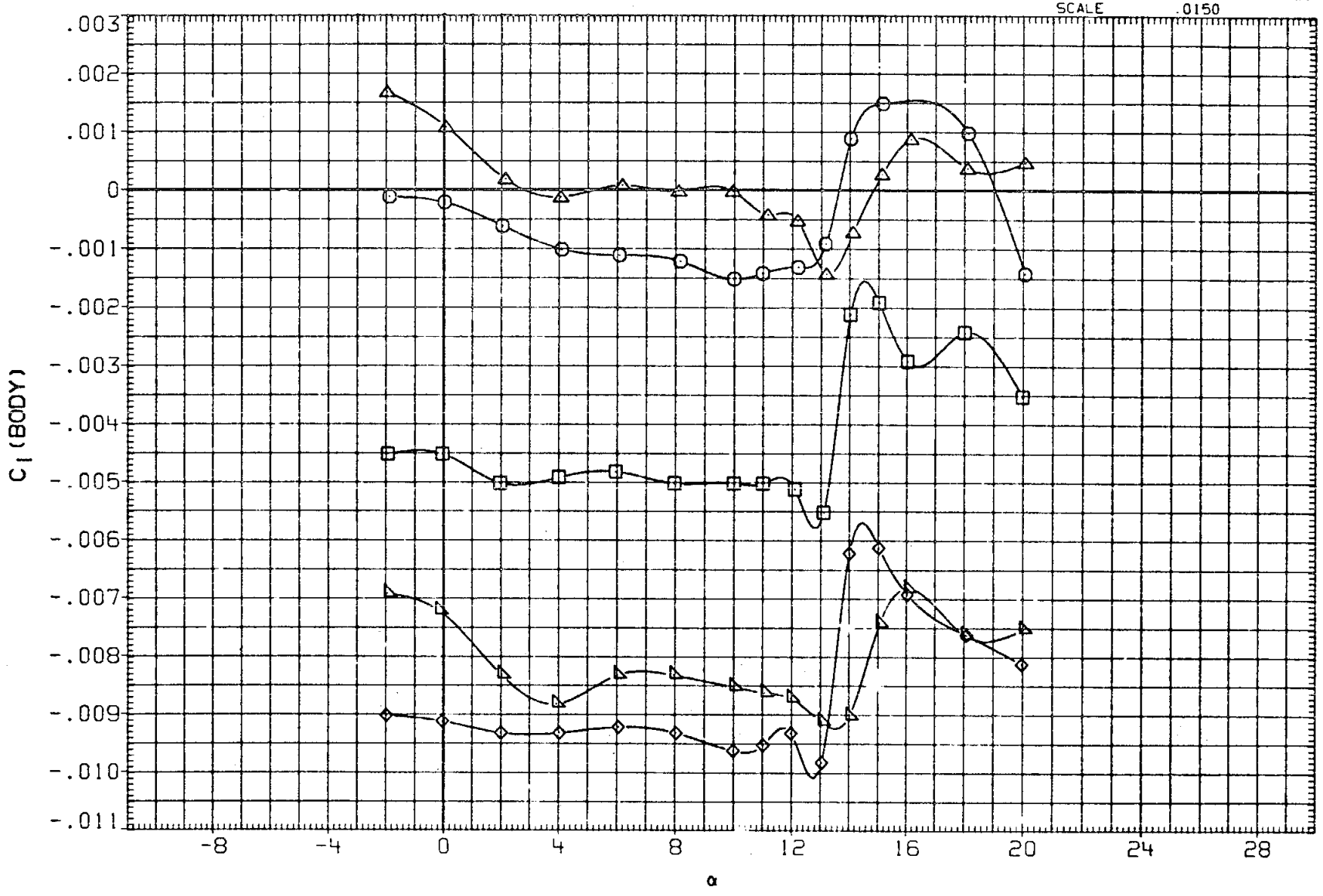

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

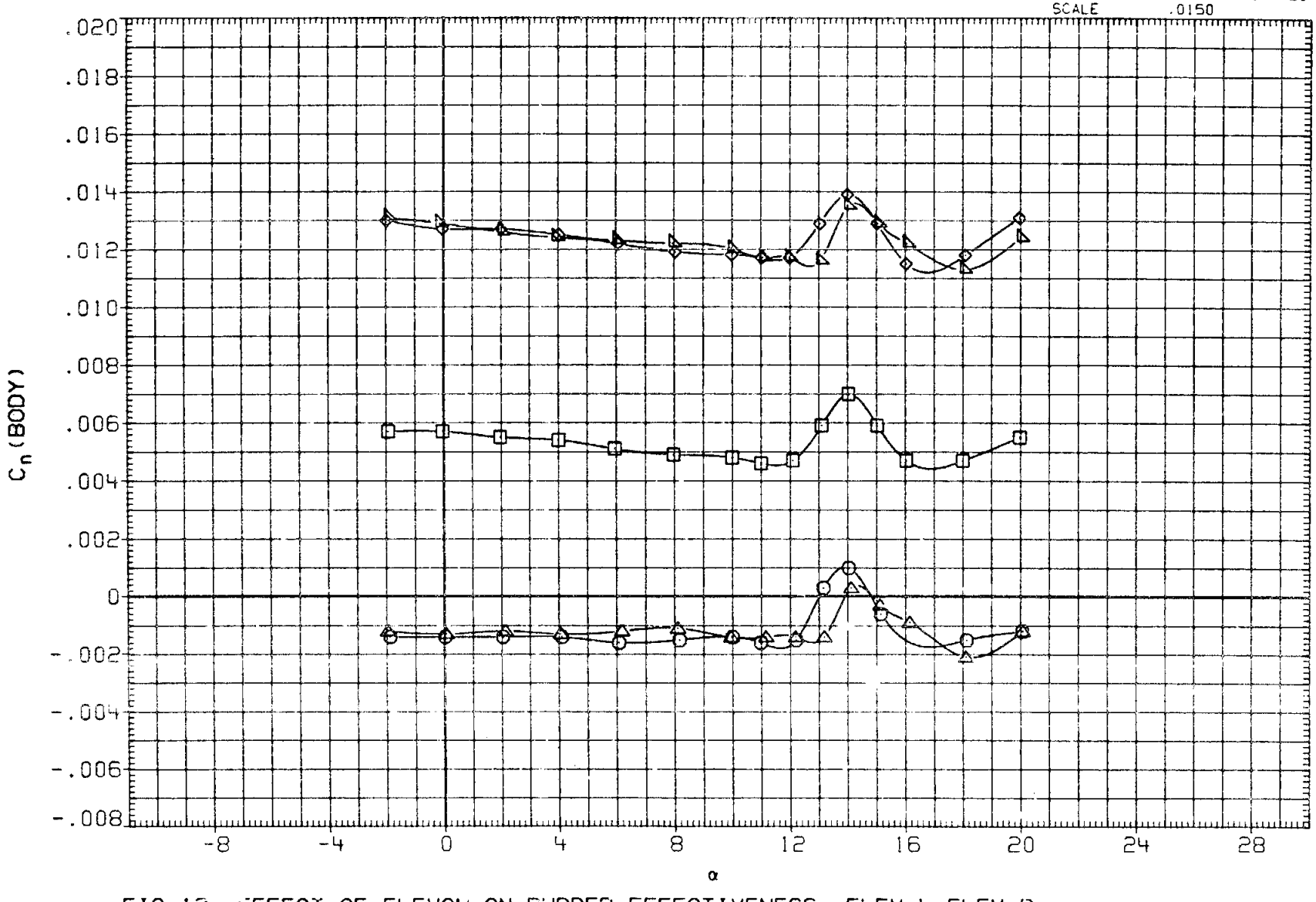

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

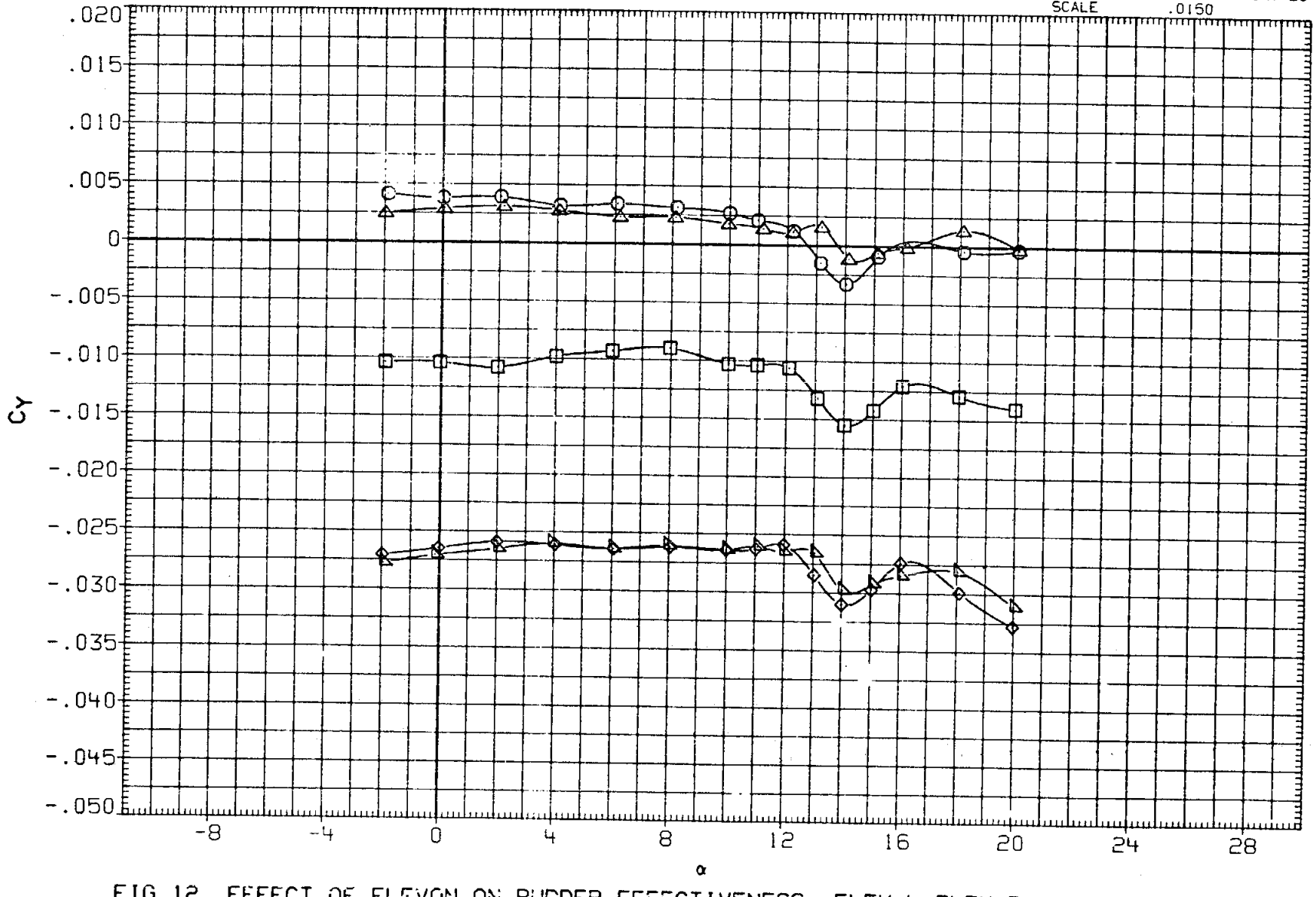

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R28131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R28121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R28109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R28122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

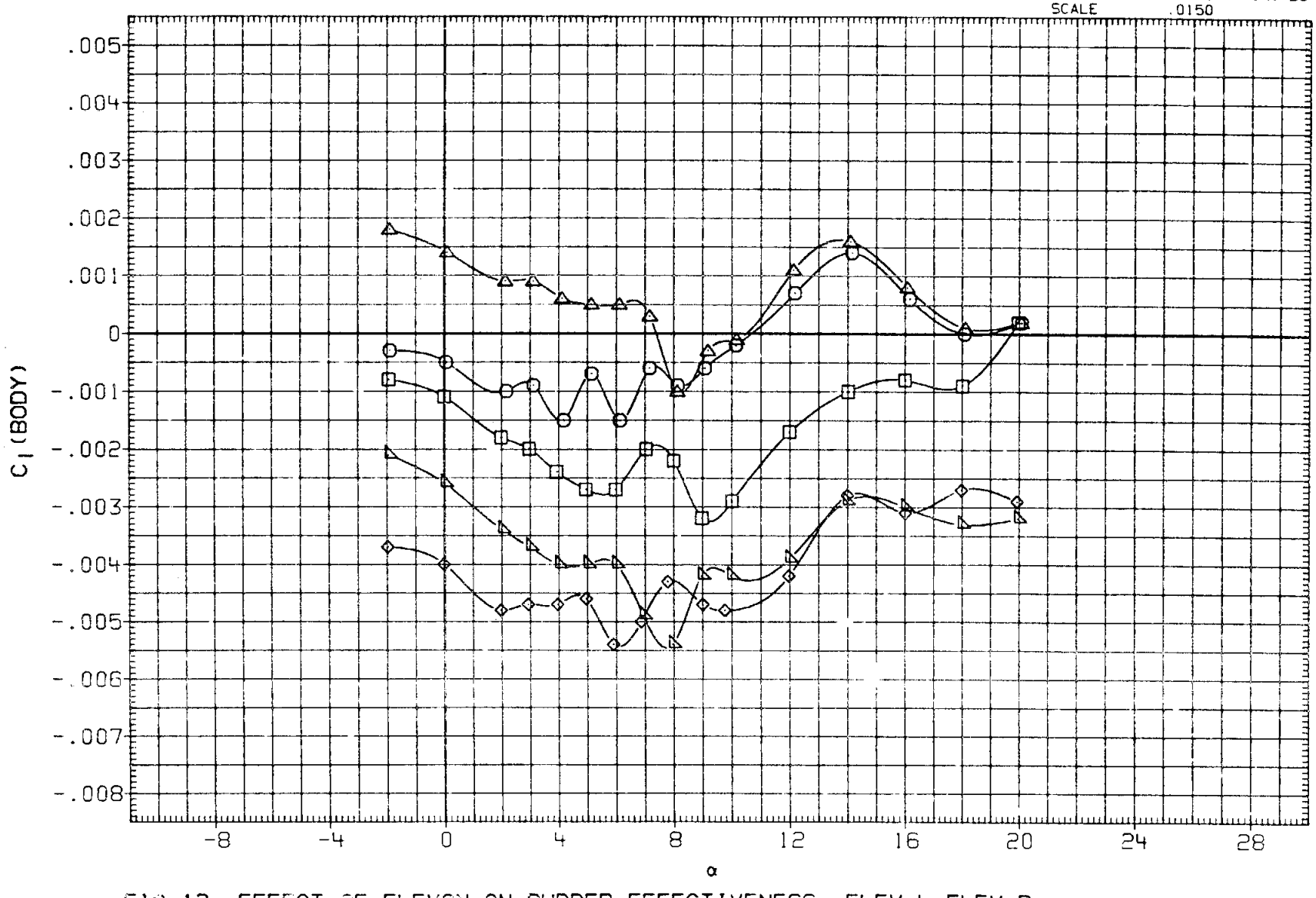

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

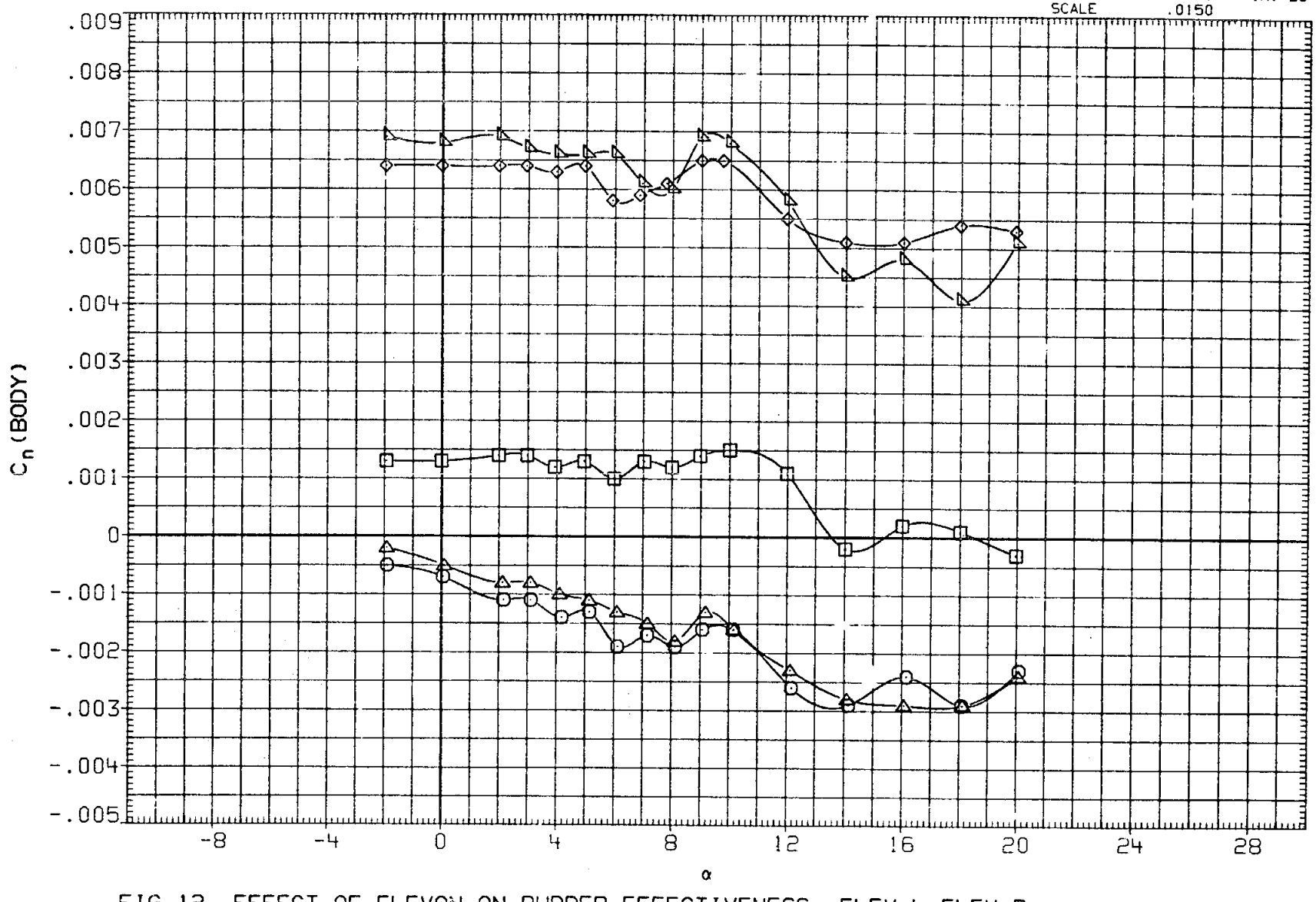

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

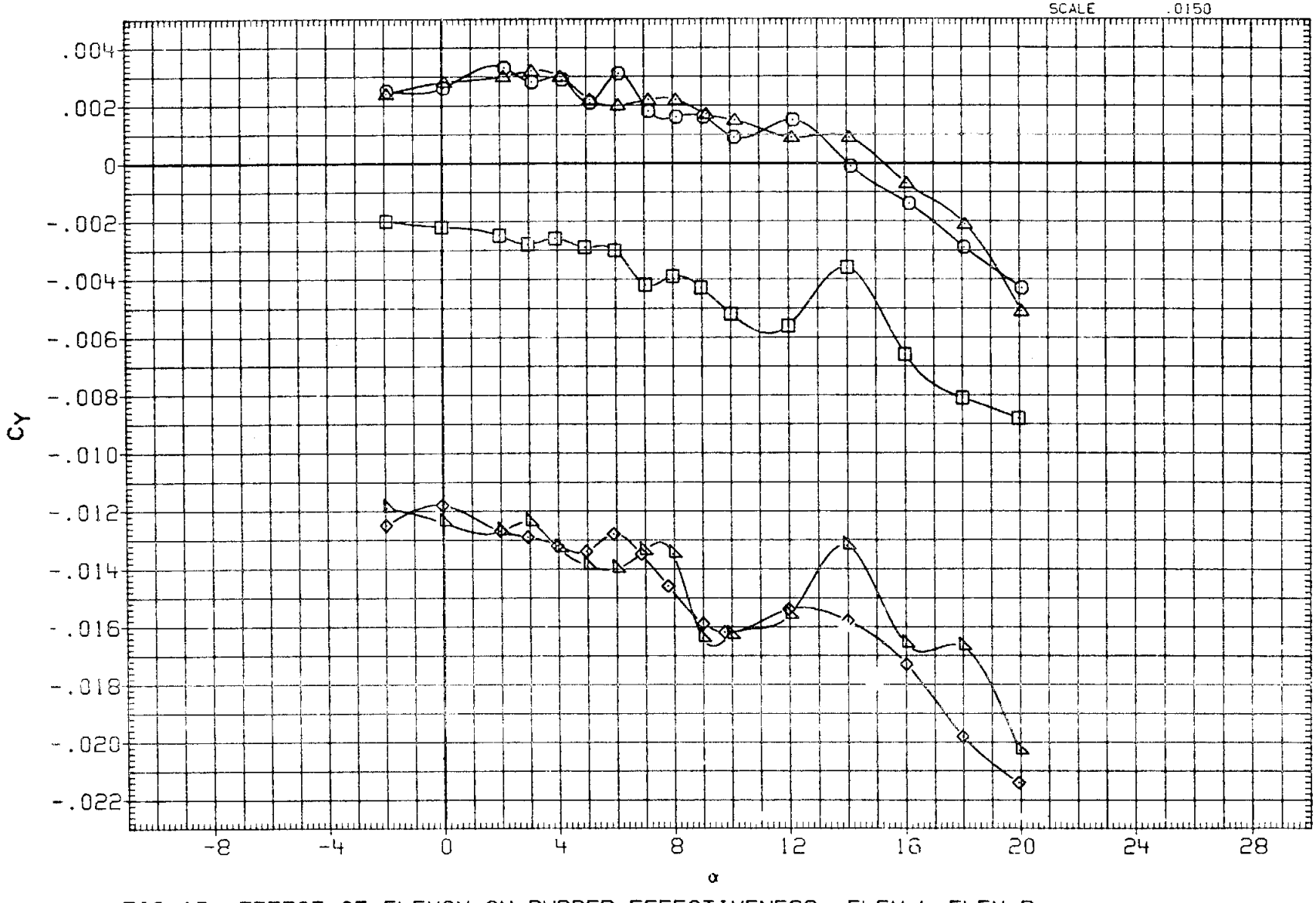

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

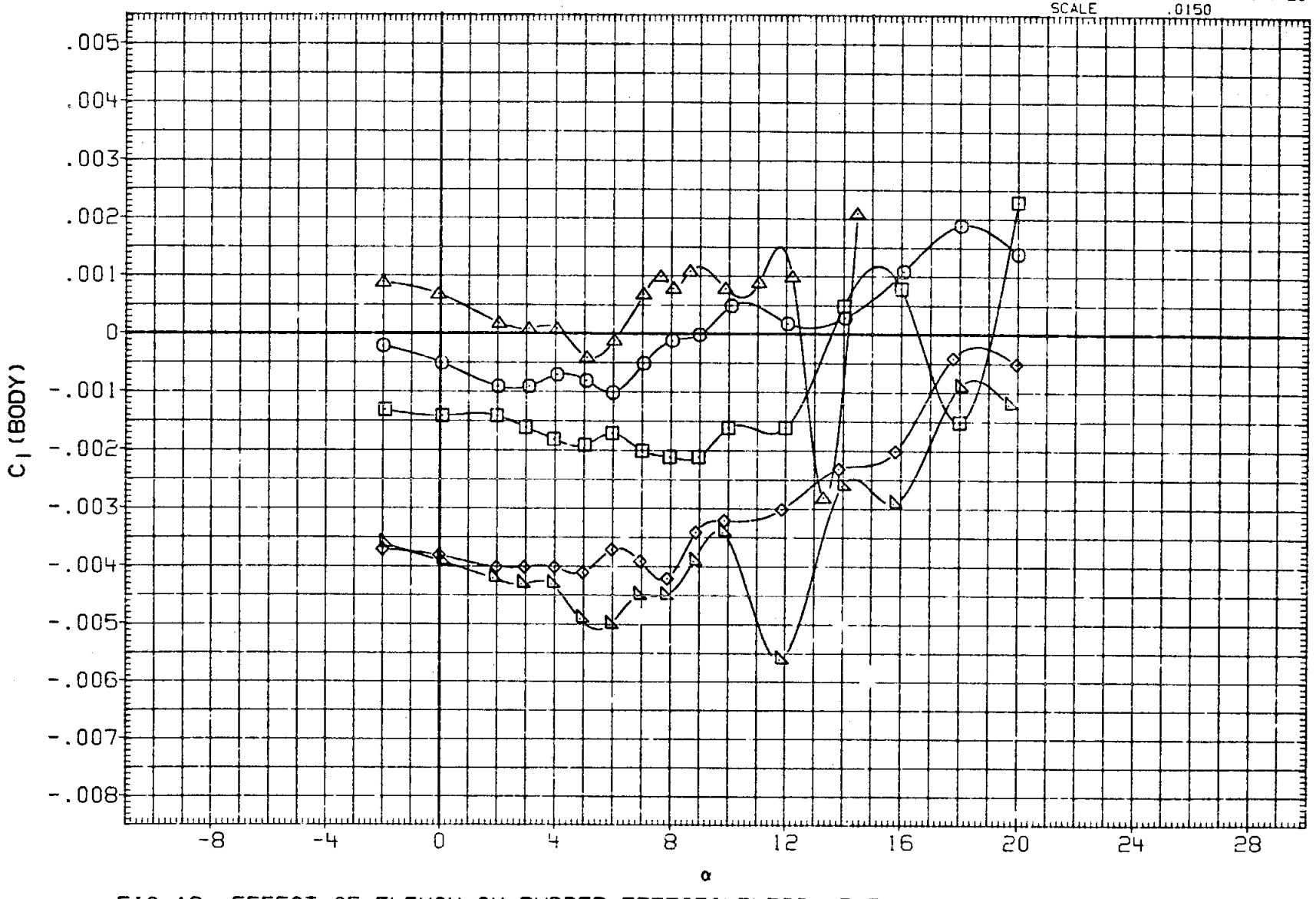

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R28131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R28121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R28109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R28122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

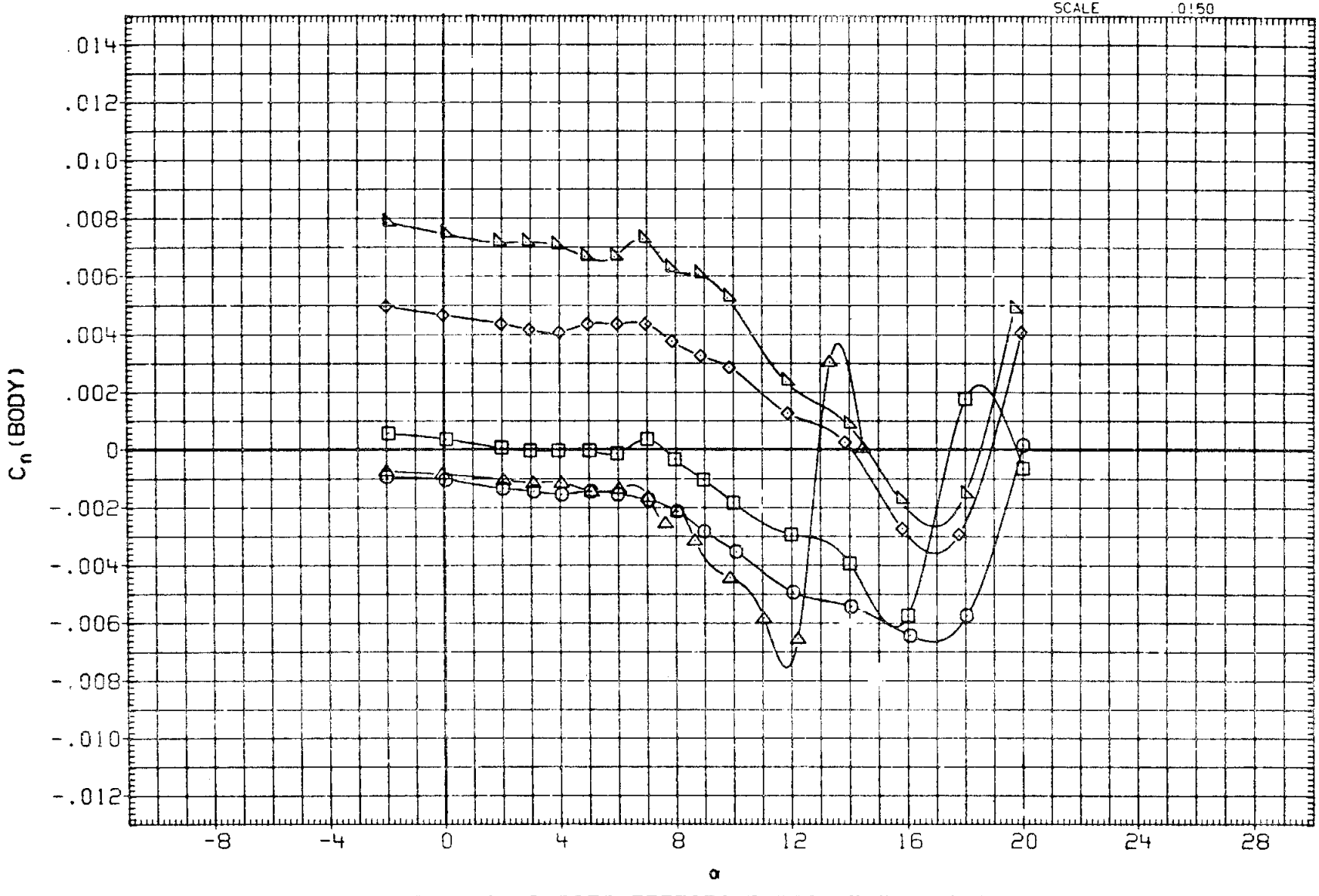

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

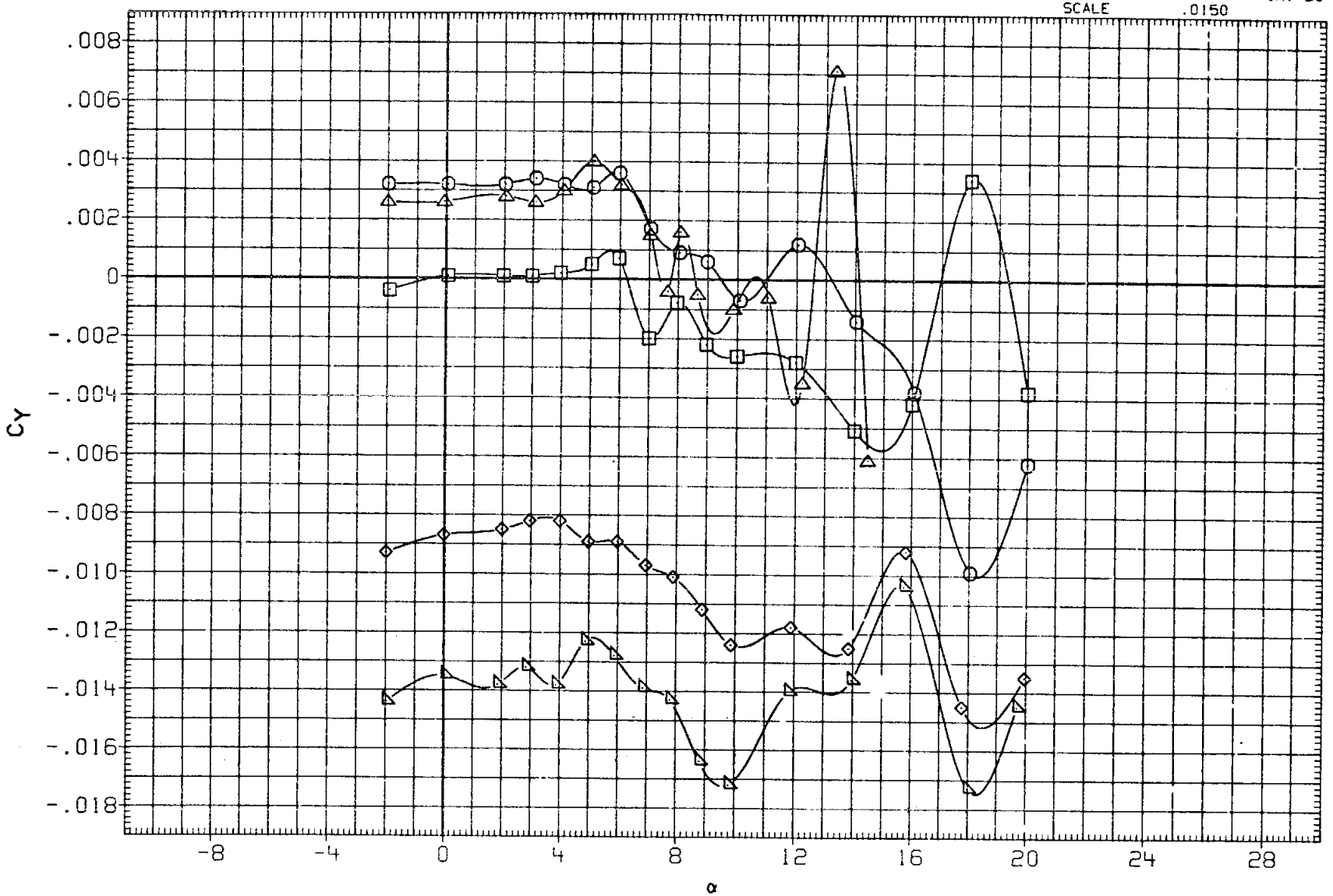

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

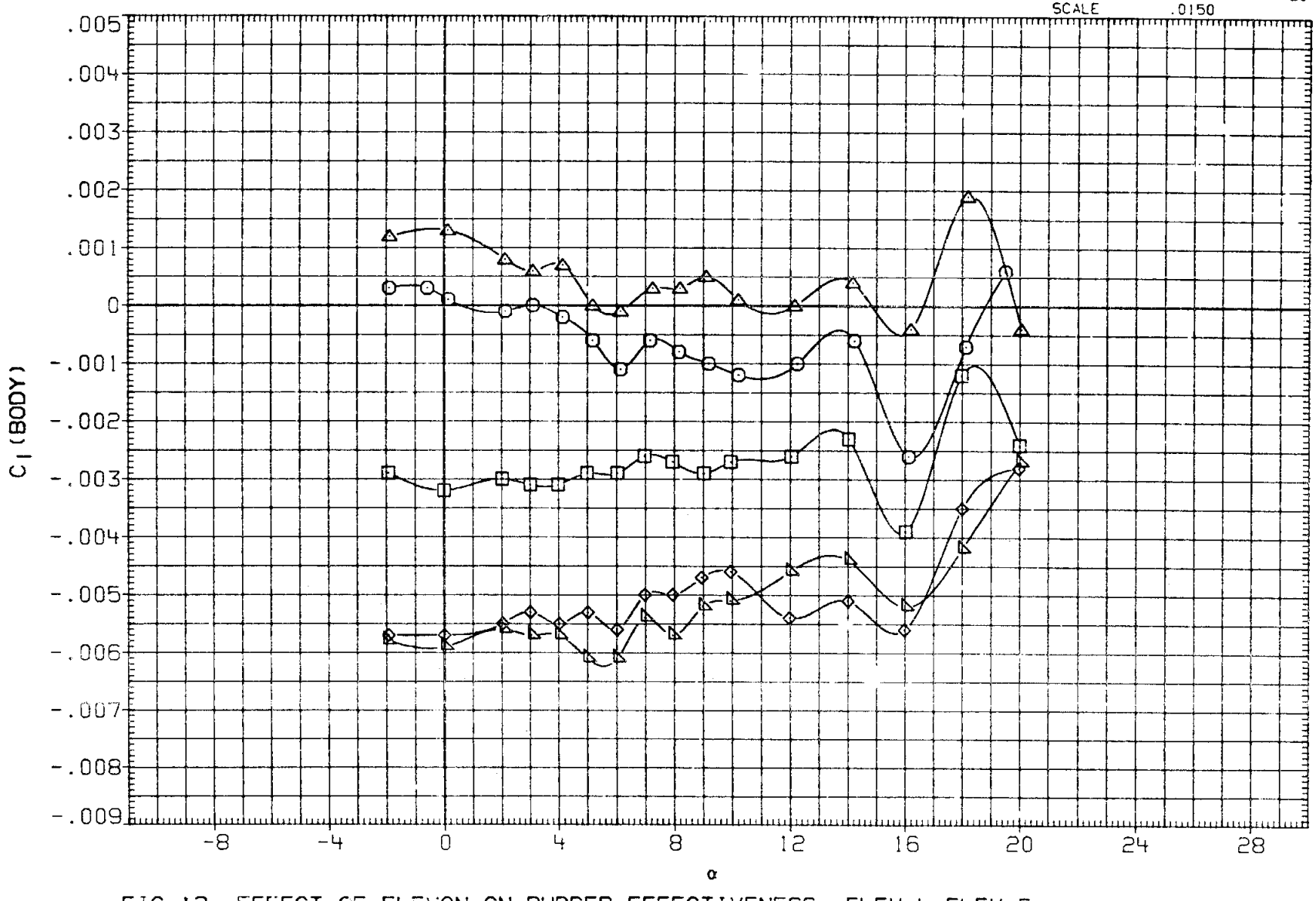

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

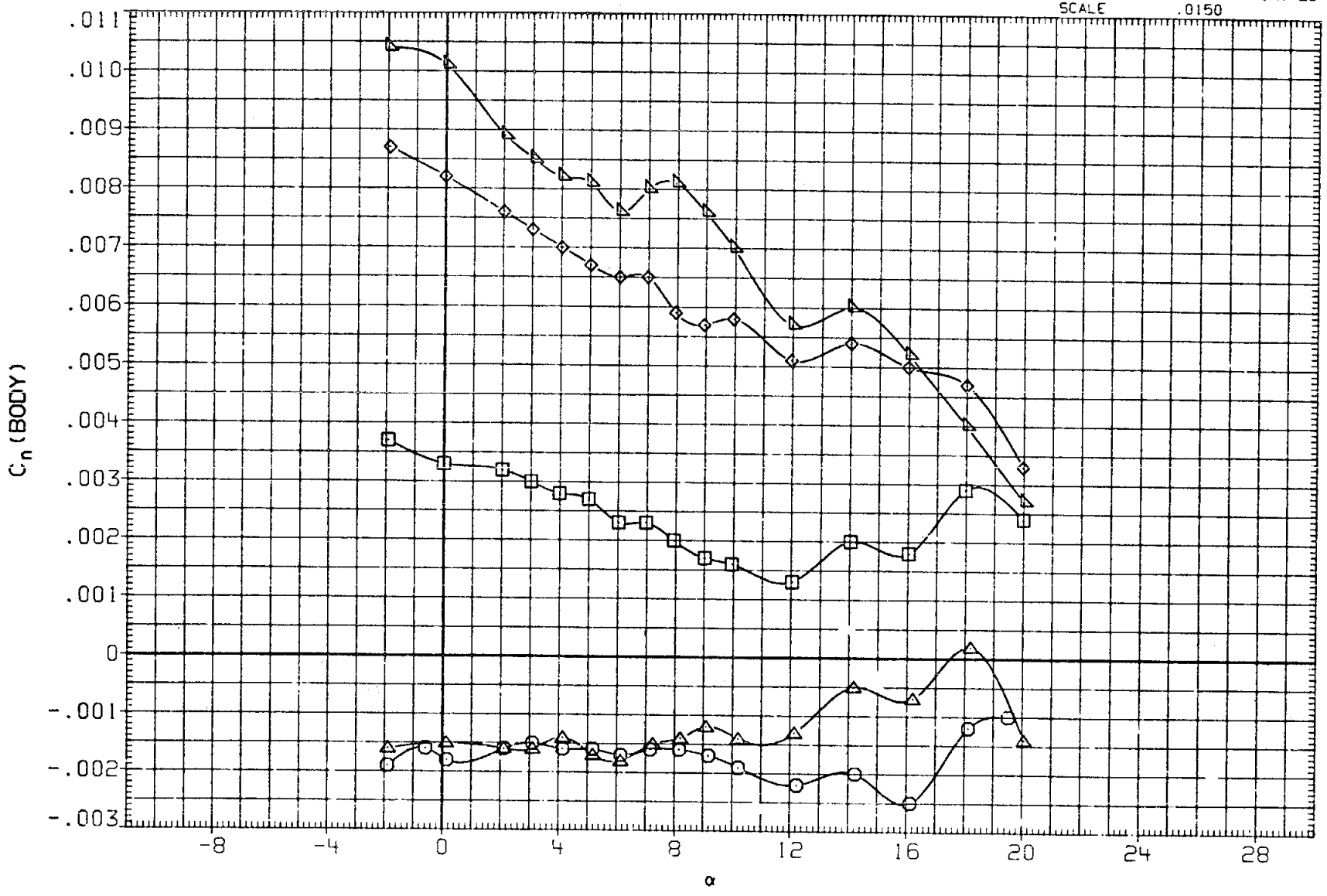

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B131	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B121	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B109	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B122	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

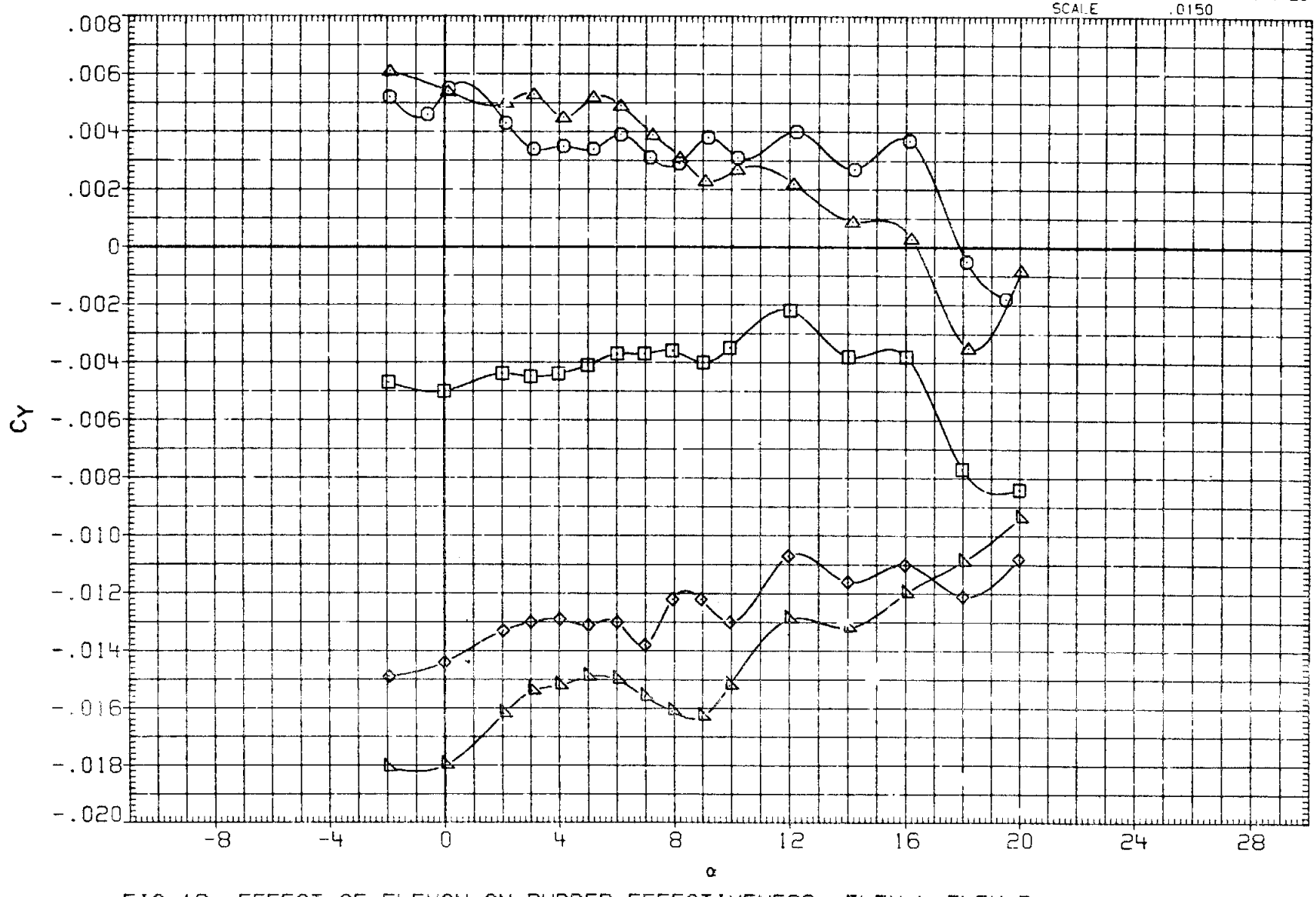

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

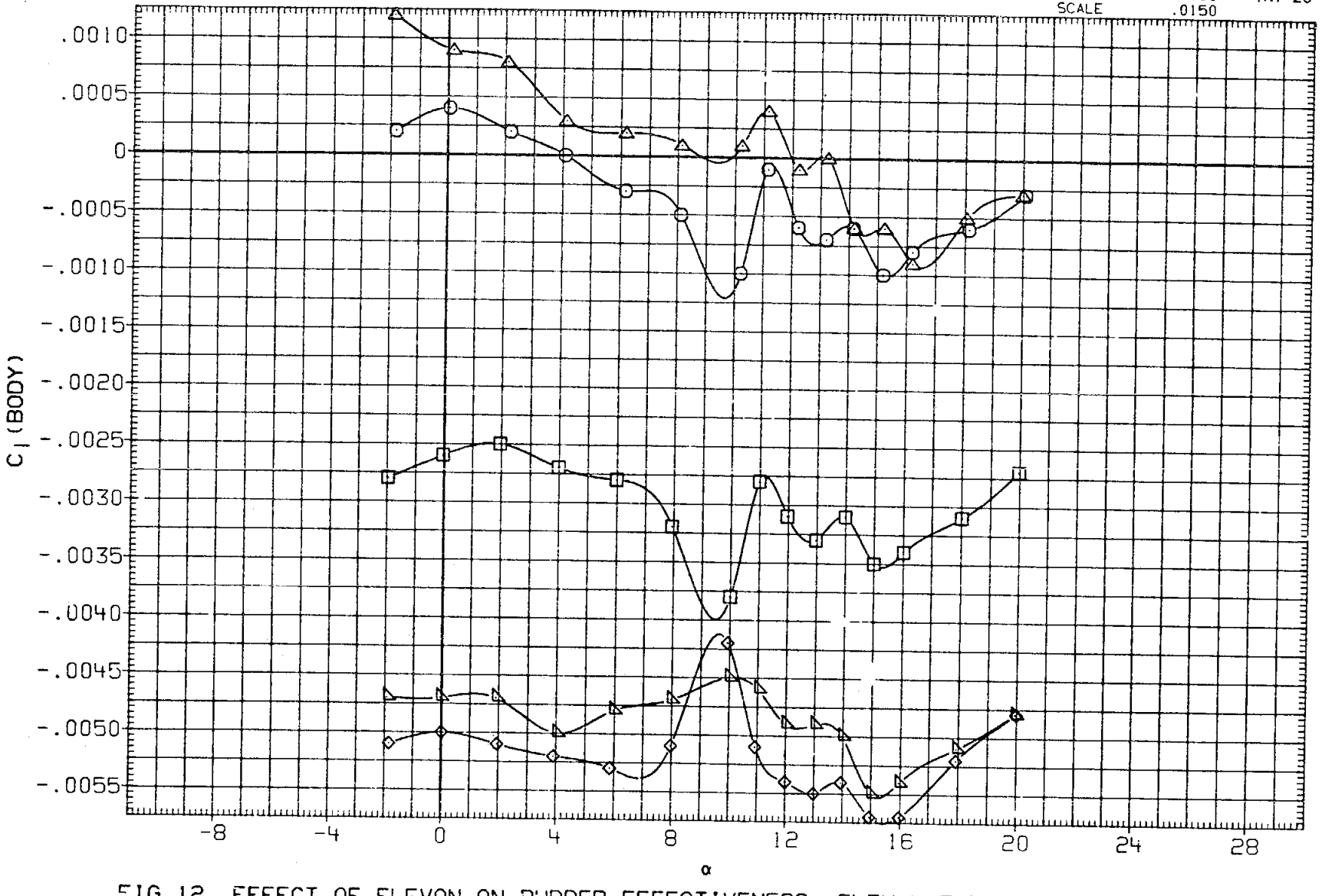

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	TETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

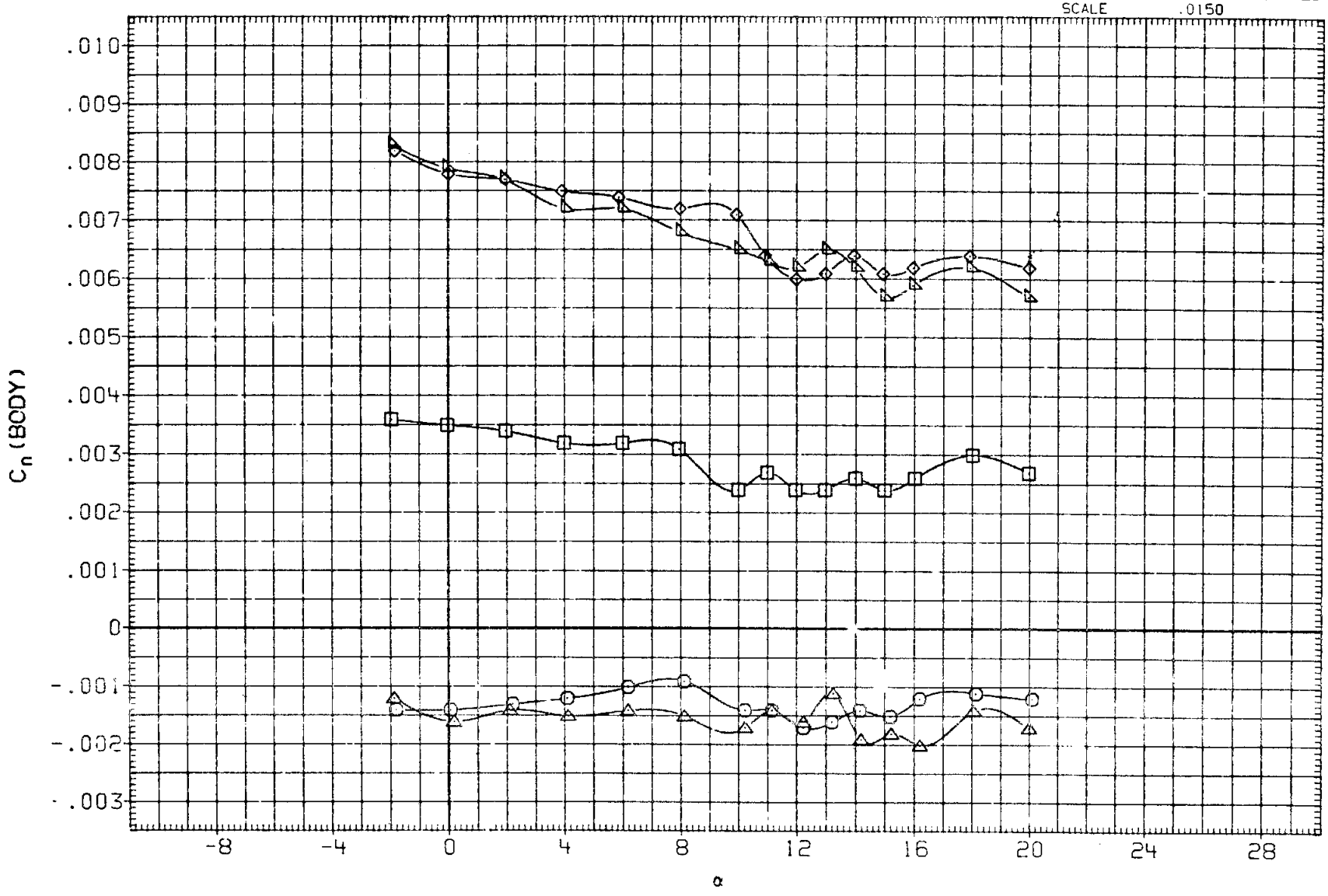

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B127	□	ARC 200-1 11(LA77) OV101	.000	-5.000	.000	.000	.000
R2B117	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	.000
R2B104	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B118	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

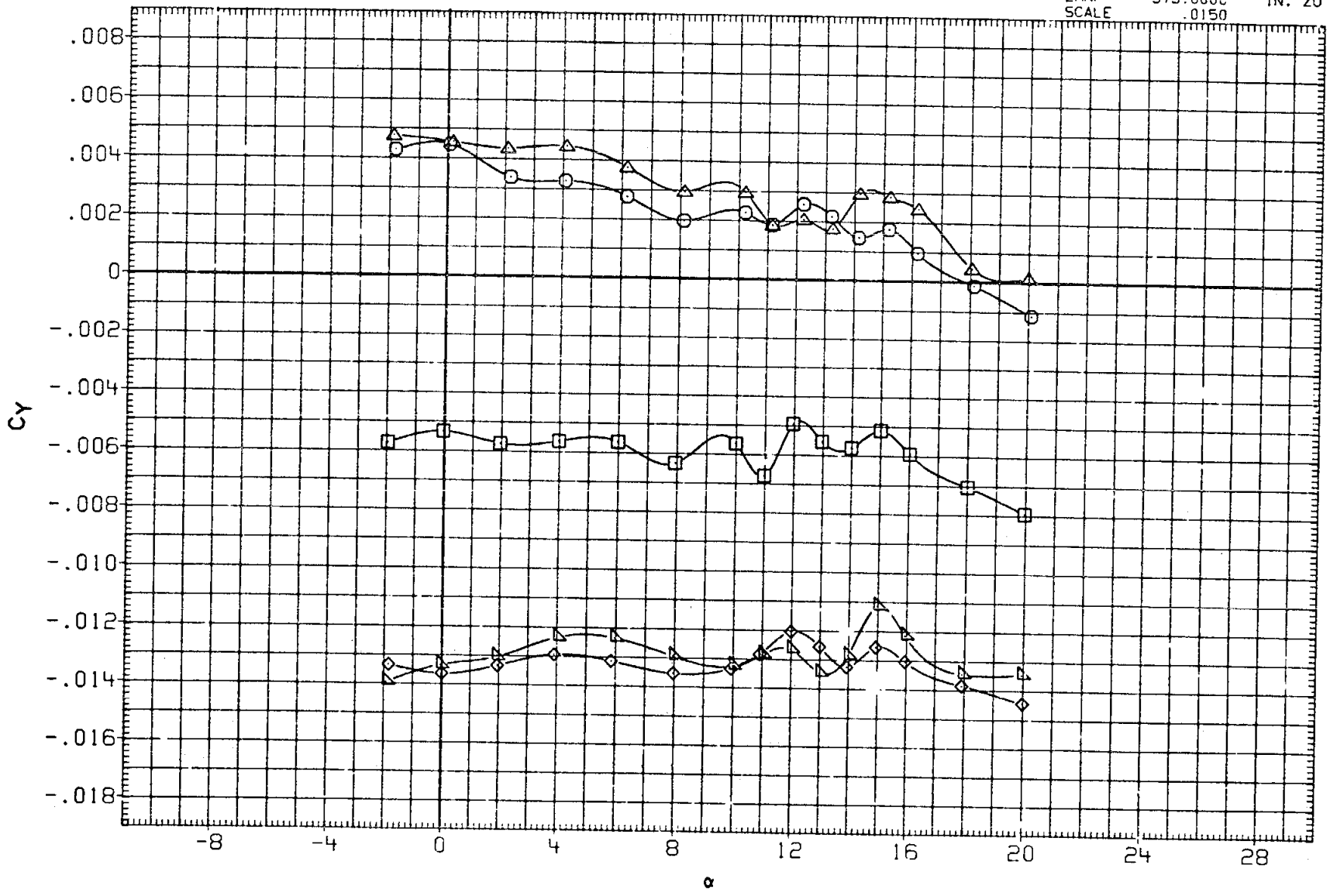

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B062	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B042	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B020	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B043	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

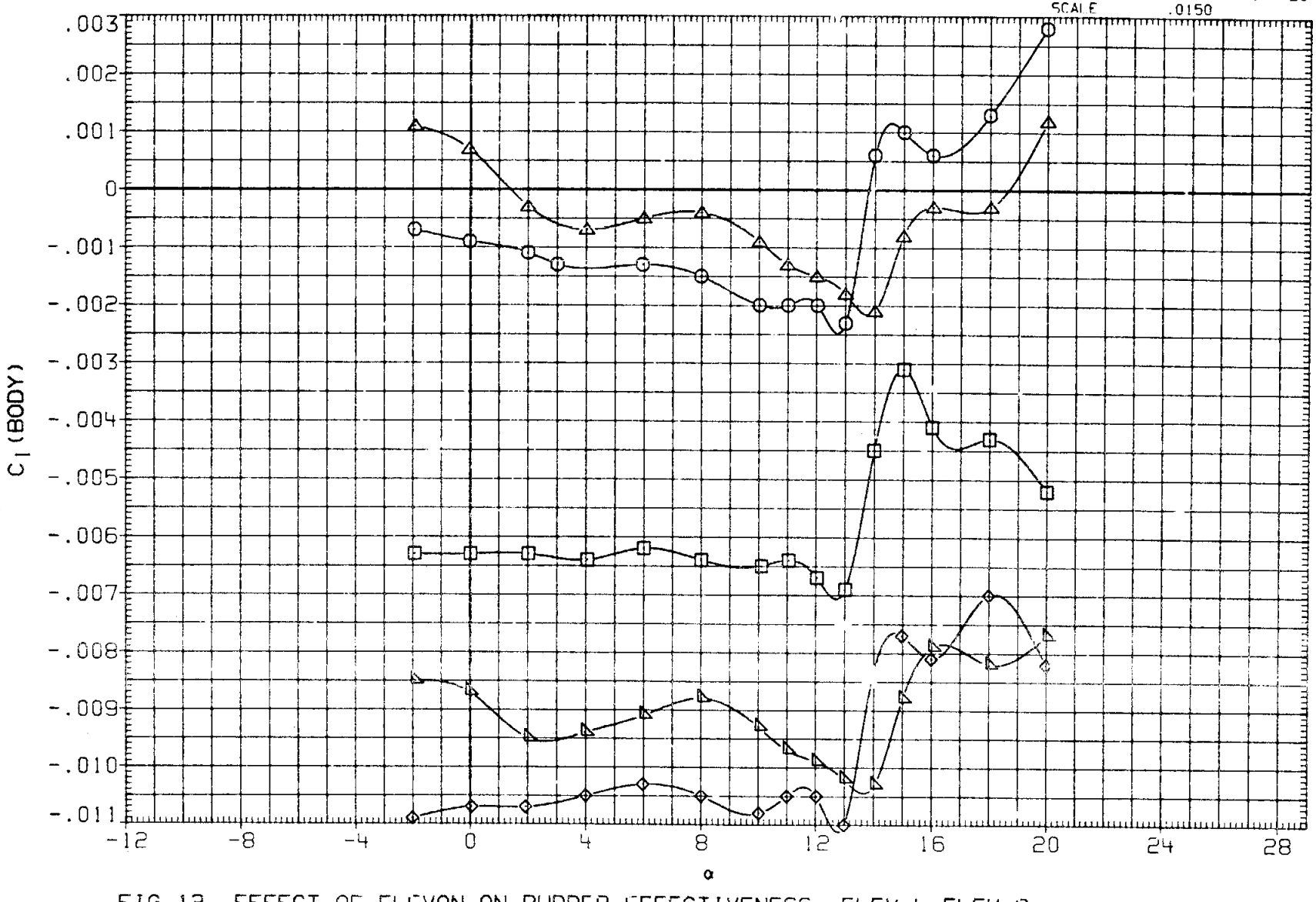

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R28062	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R28042	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R28020	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R28043	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

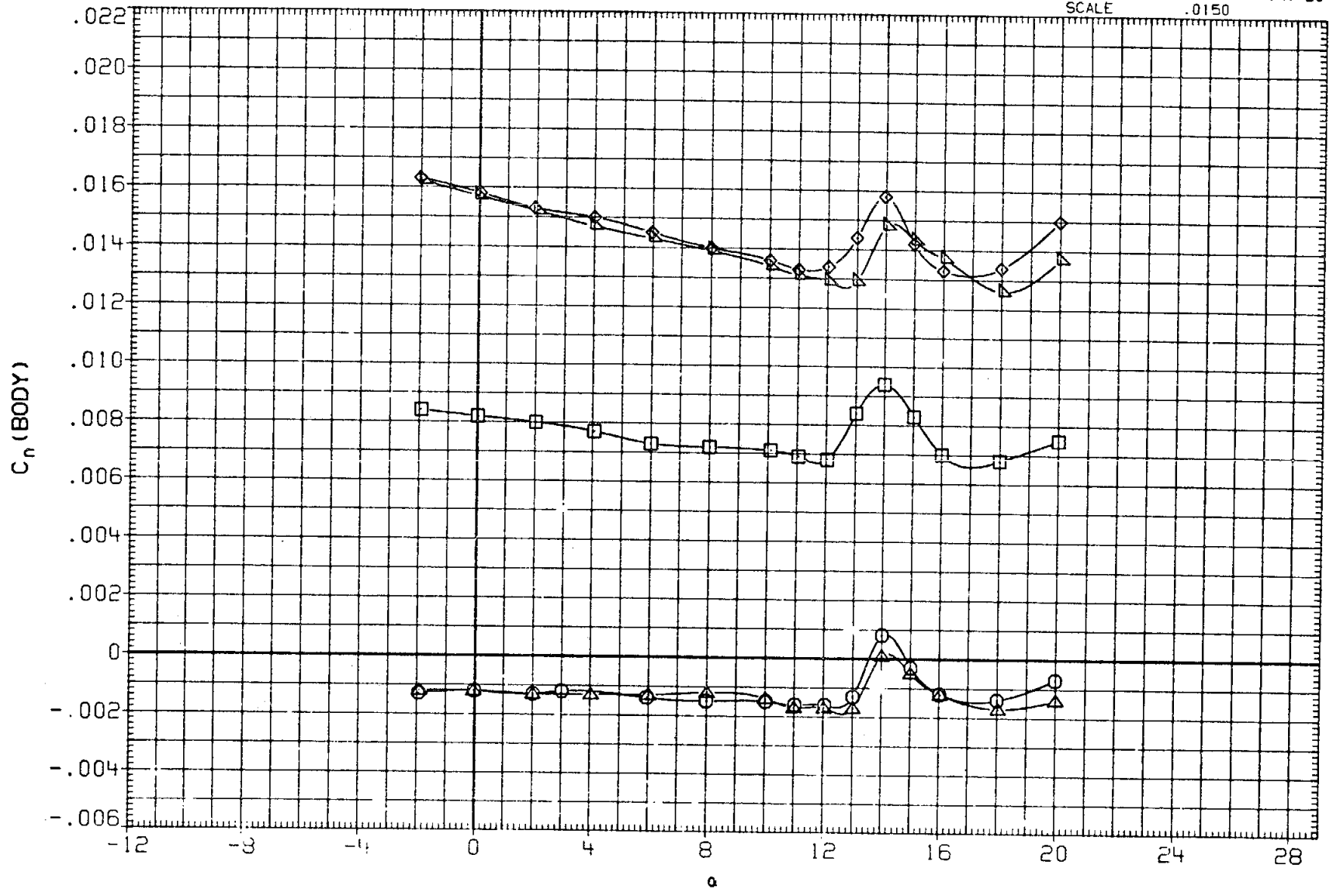

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B062	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B042	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B0[illegible]	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B043	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

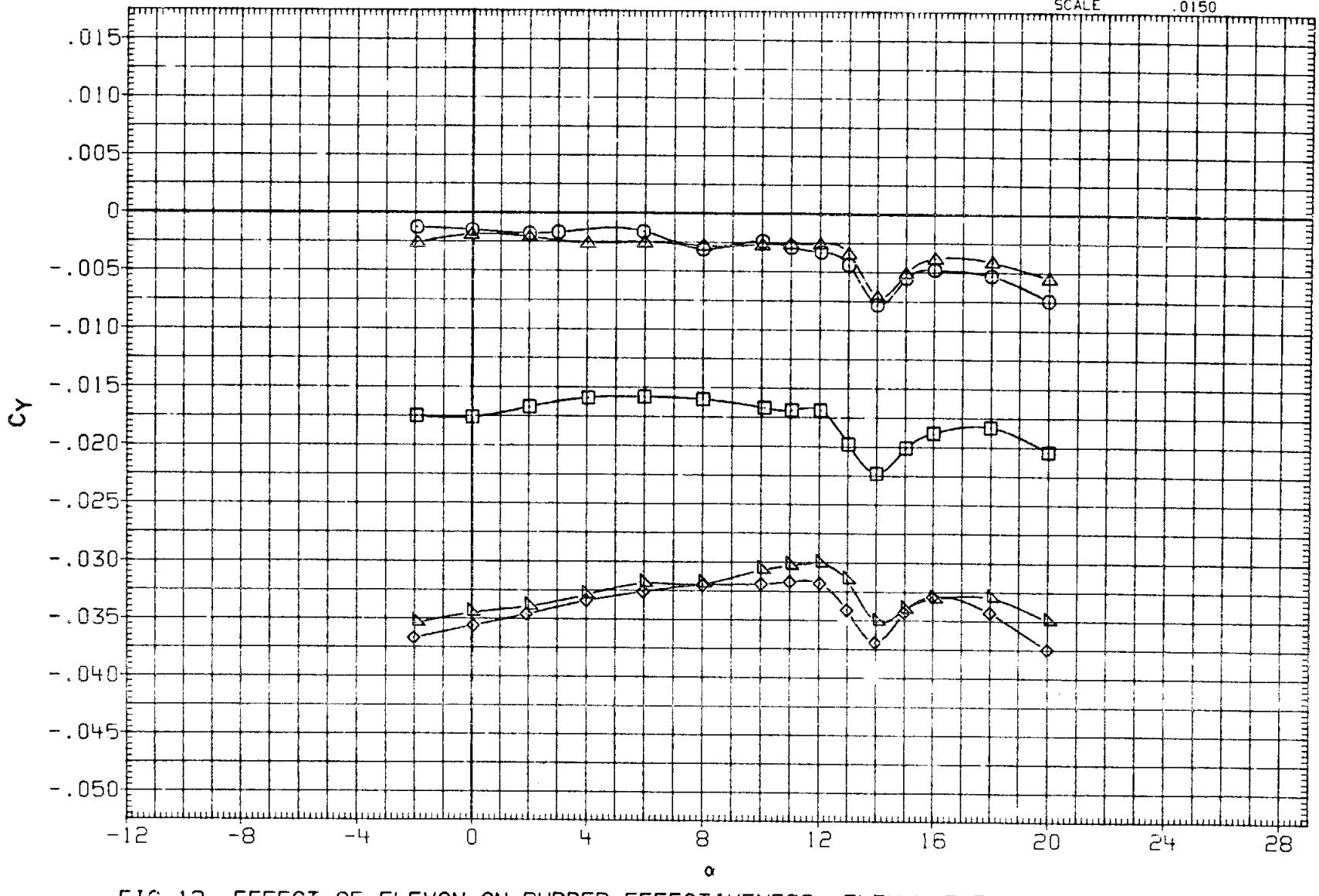

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B065	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B066	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R2B048	◻	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

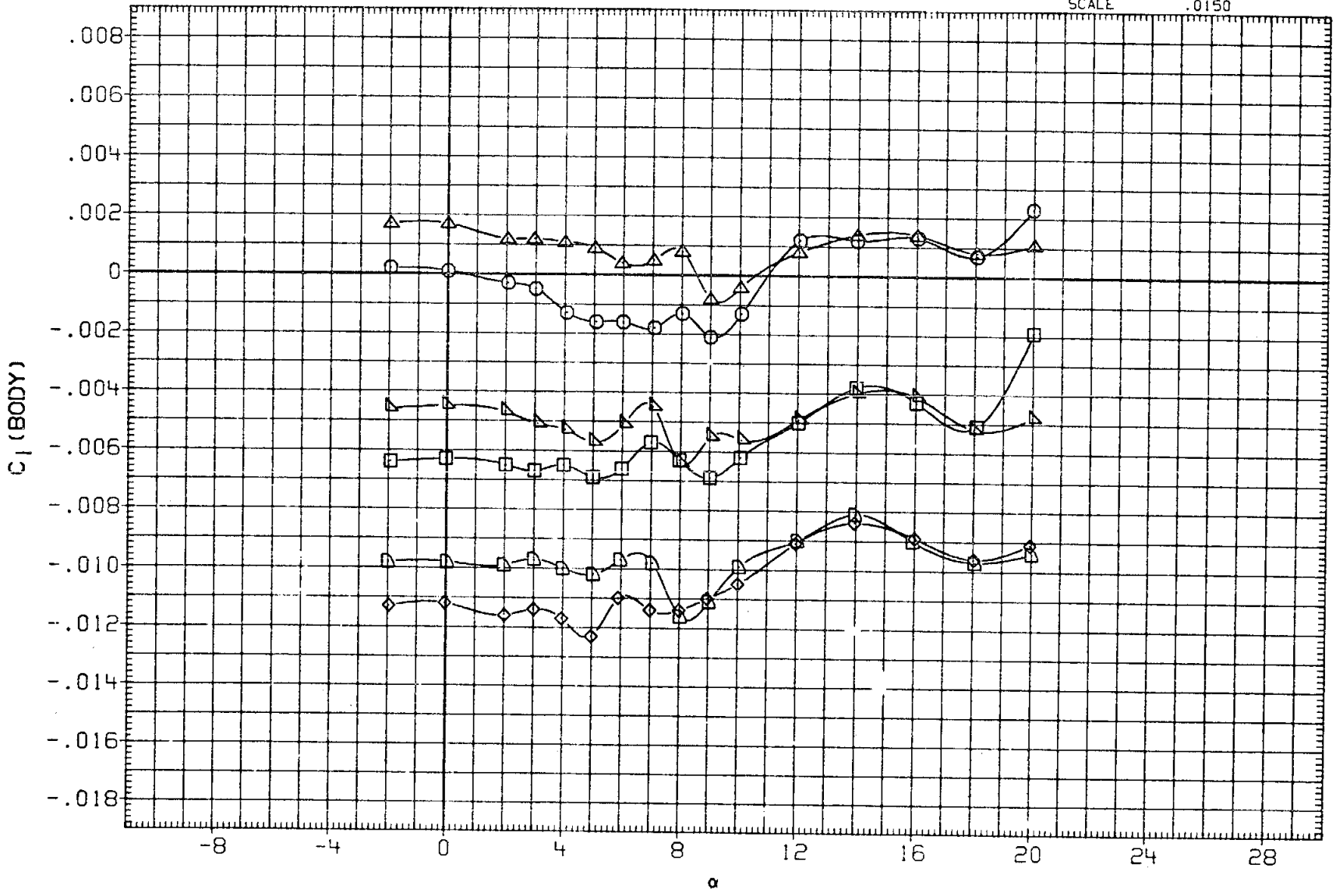

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B065	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B066	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R2B048	◻	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

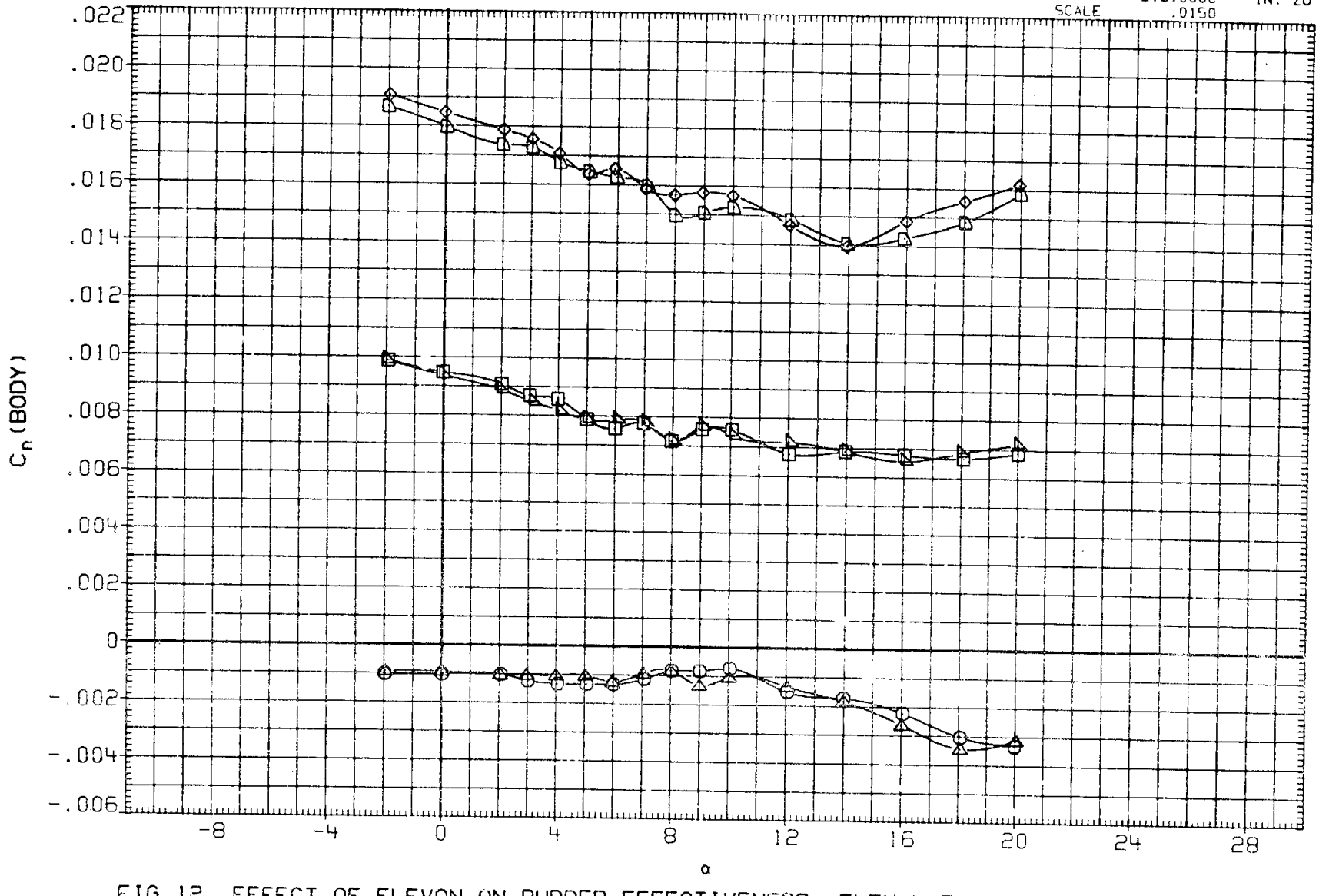

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B065	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B066	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R2B048	◻	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

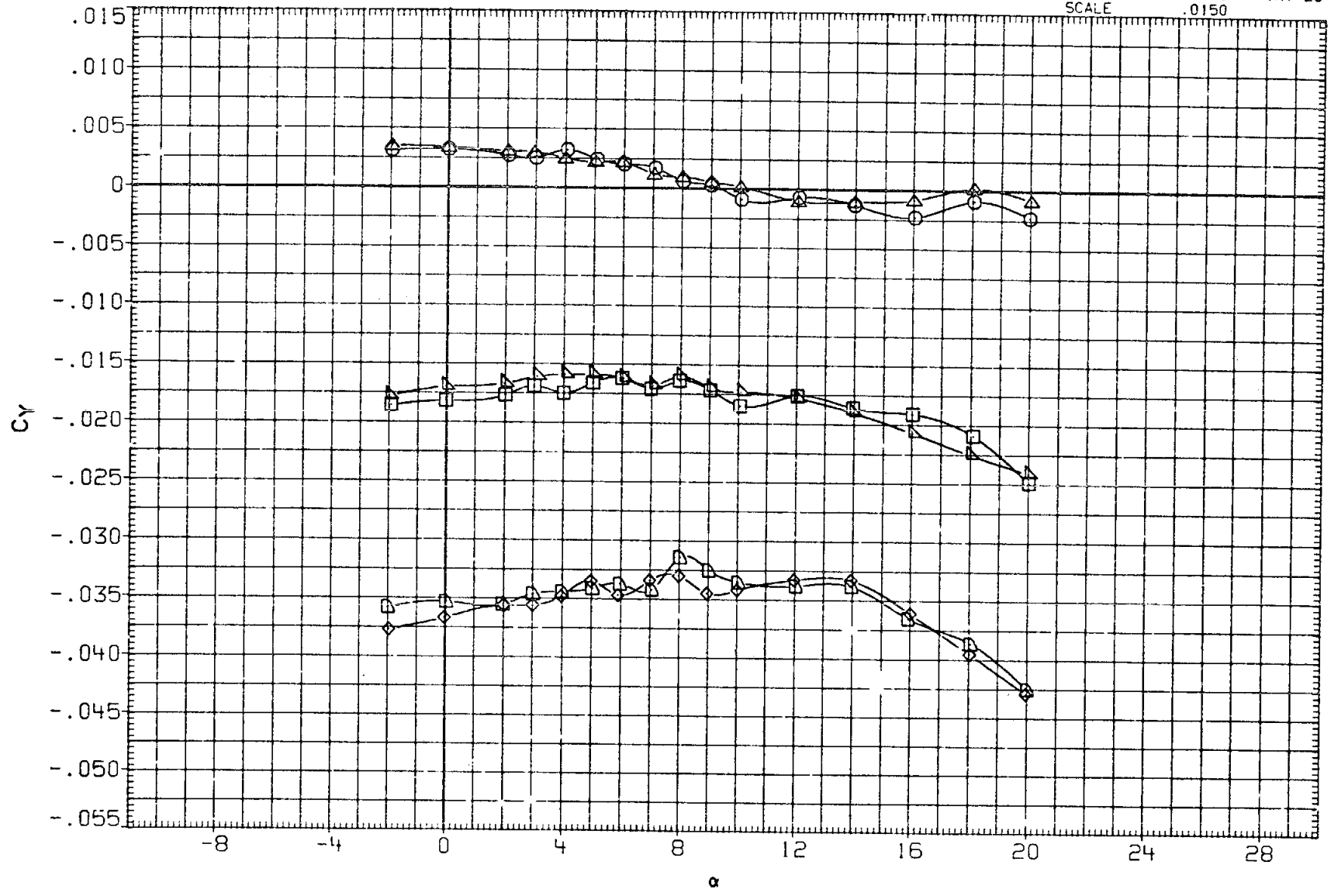

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILERON	RUDDER	SPOBRK	BETA	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R28065	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R28047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R28006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R28066	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R28048	◻	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

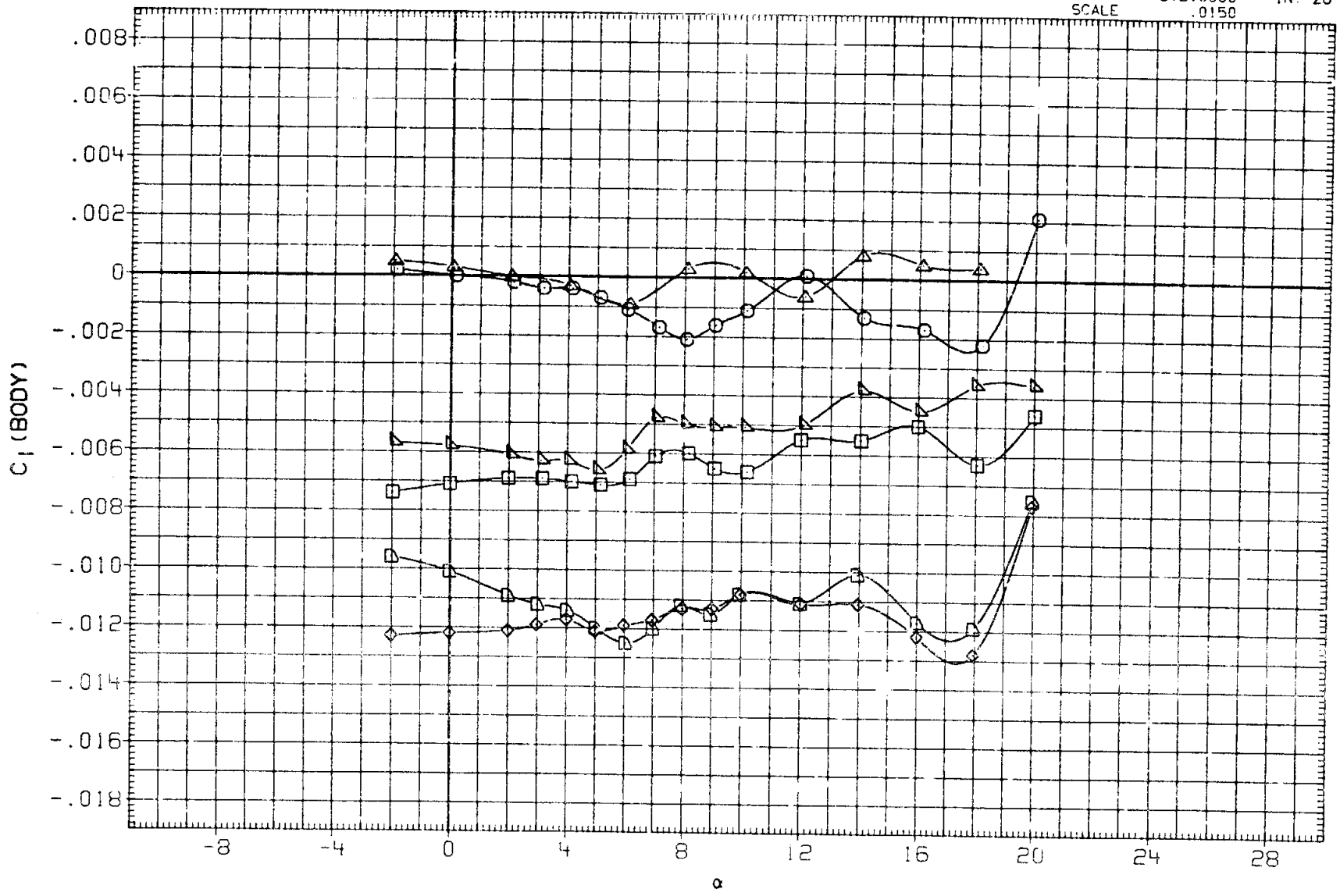

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R28001	○	ARC 200-1 11(LA77) OV101
R28065	□	ARC 200-1 11(LA77) OV101
R28047	◇	ARC 200-1 11(LA77) OV101
R28006	△	ARC 200-1 11(LA77) OV101
R28066	◺	ARC 200-1 11(LA77) OV101
R28048	◻	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	25.000	.000	.000
.000	-5.000	25.000	.000	.000
.000	-10.000	25.000	.000	.000
.000	.000	25.000	.000	-10.000
.000	-5.000	25.000	.000	-10.000
.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

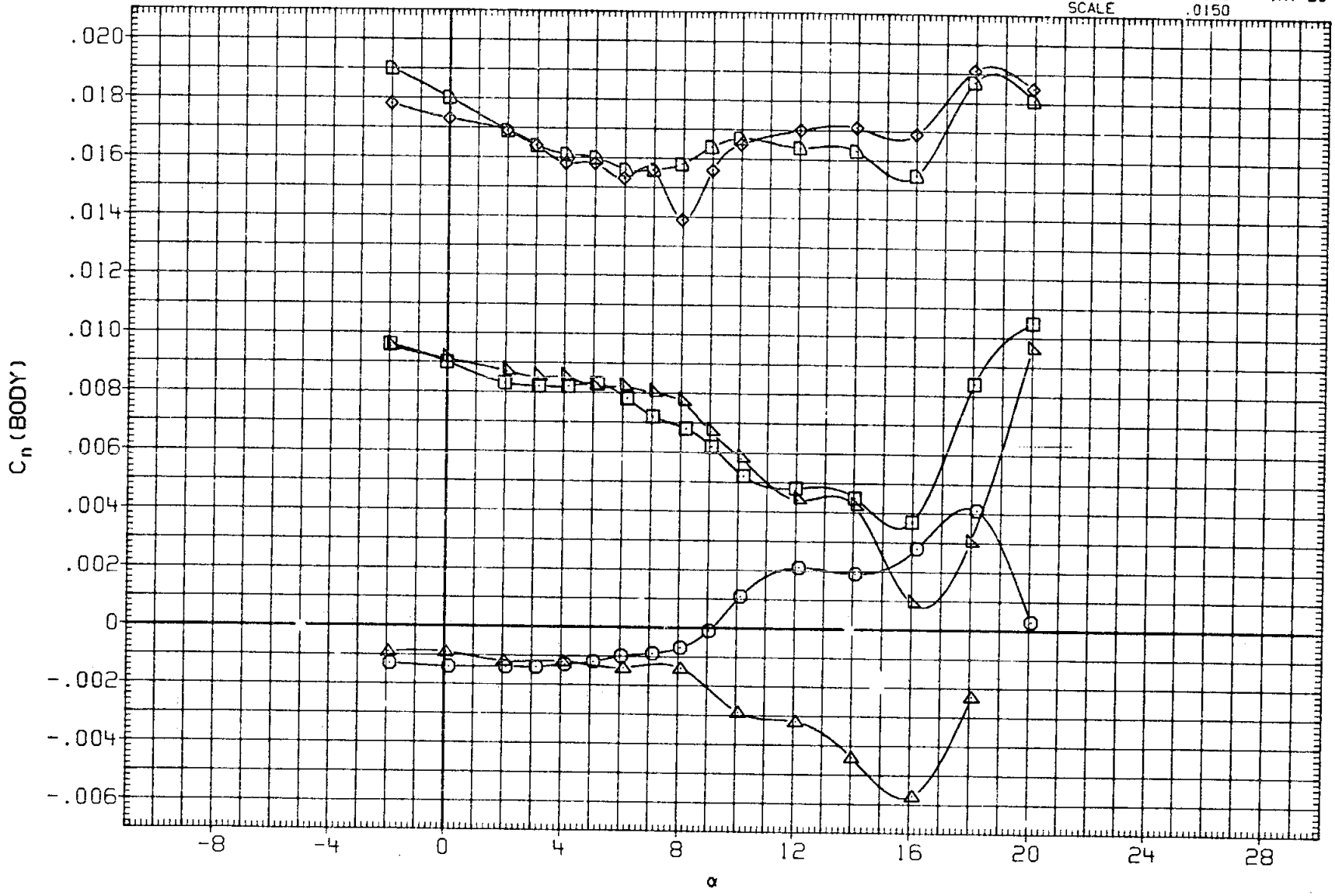

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B065	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R2B047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R2B006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B066	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R2B048	⬠	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

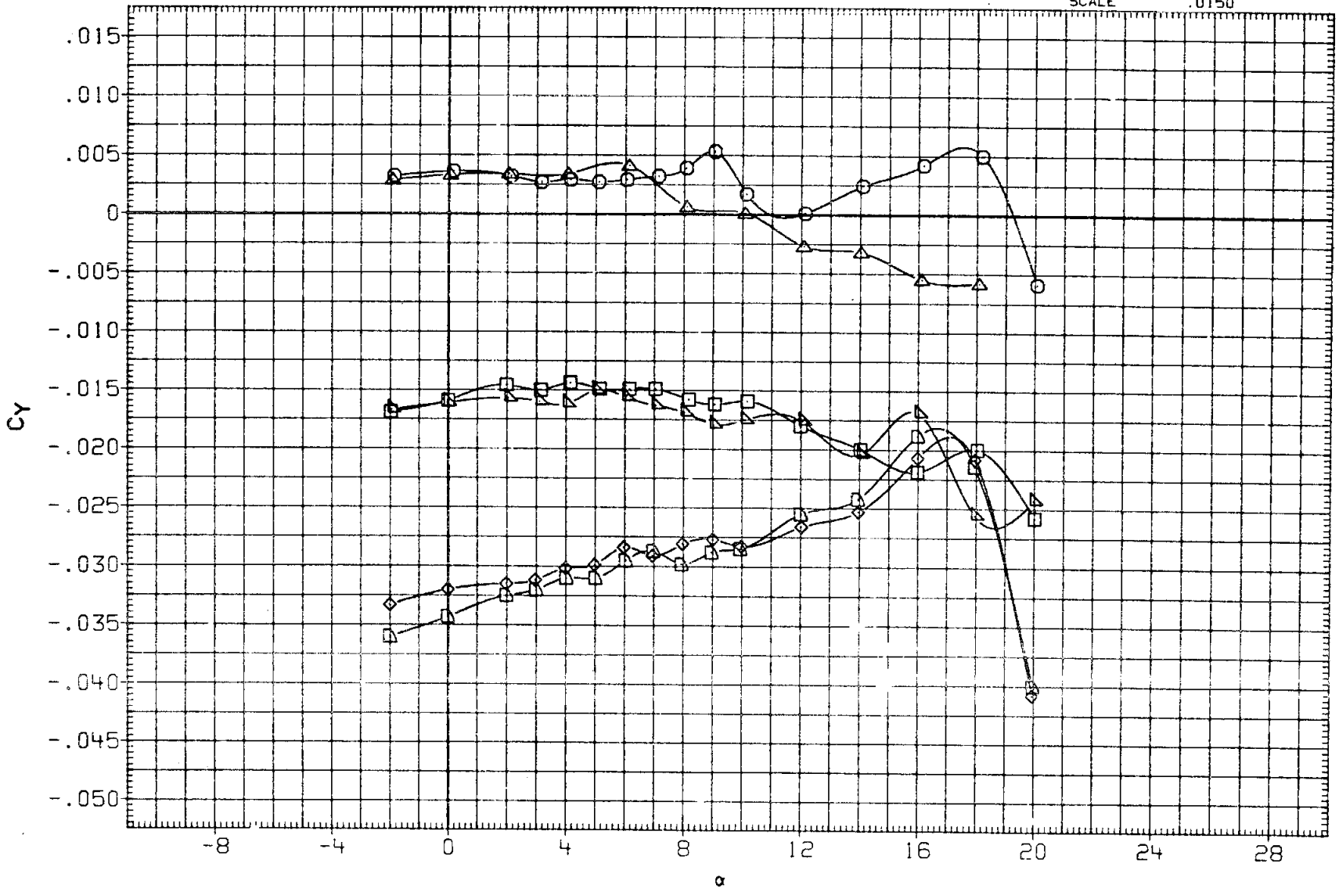

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R28075	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000
R28047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000
R28006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R28076	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000
R28048	◻	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

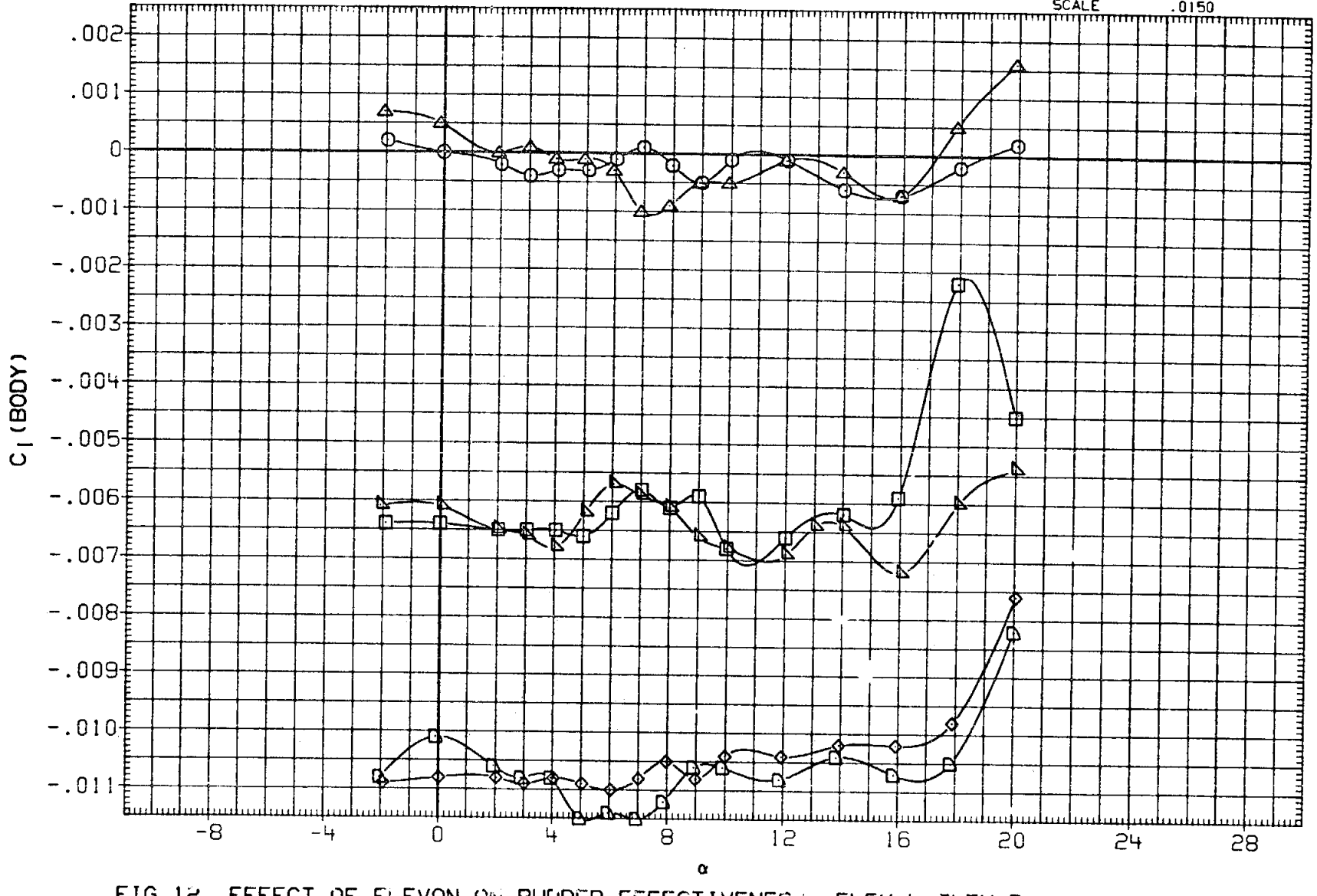

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON	REFERENCE INFORMATION		
R28001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000	SREF	2690.0000	SQ.FT.
R28075	□	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	.000	LREF	474.8000	IN.
R28047	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	.000	BREF	936.7000	IN.
R28006	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000	XMRP	1076.7000	IN. XO
R28076	◺	ARC 200-1 11(LA77) OV101	.000	-5.000	25.000	.000	-10.000	YMRP	.0000	IN. YO
R28048	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	25.000	.000	-10.000	ZMRP	375.0000	IN. ZO
								SCALE	.0150	

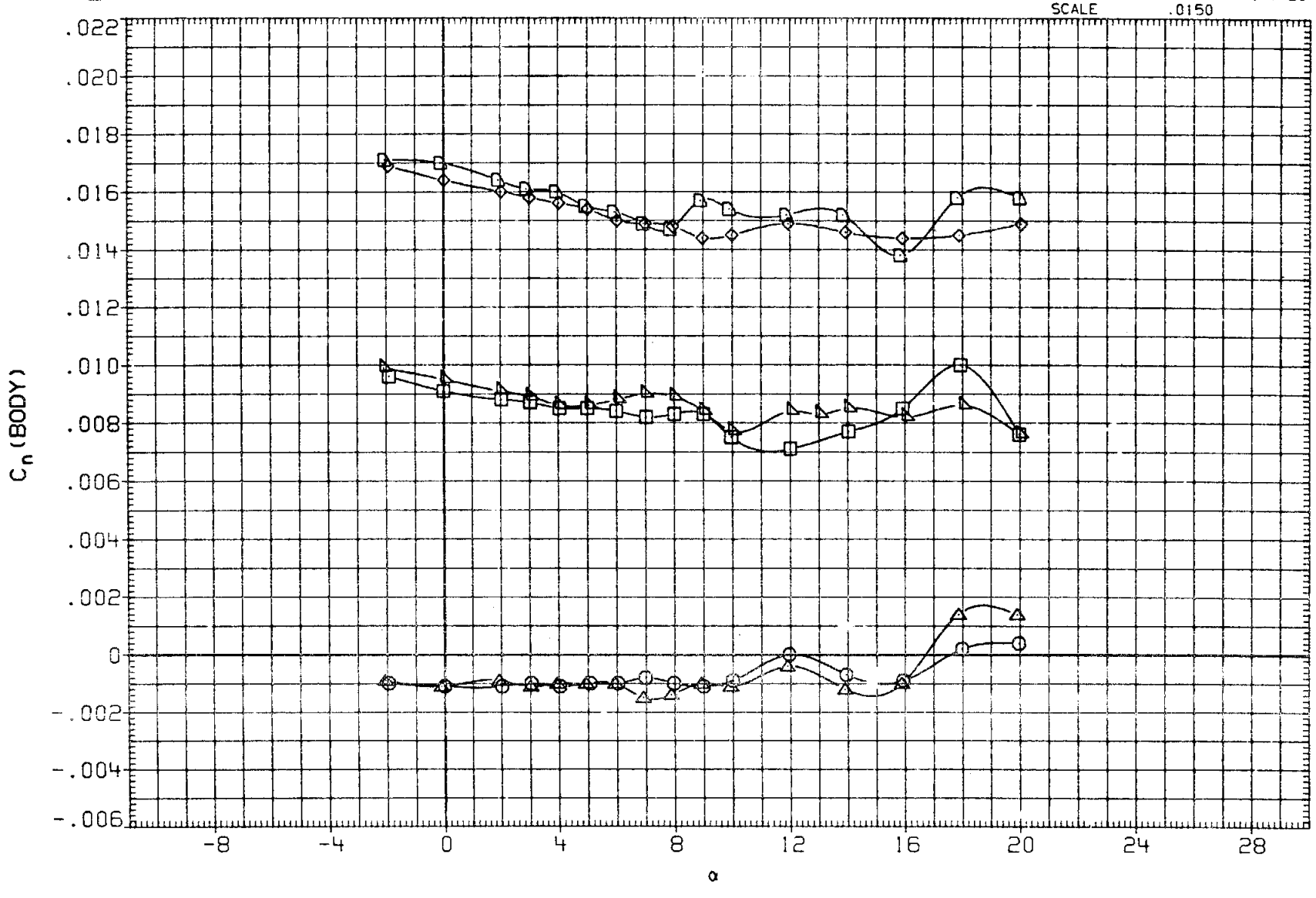

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B001	○	ARC 200-1 11(LA77) OV101
R2B075	□	ARC 200-1 11(LA77) OV101
R2B047	◇	ARC 200-1 11(LA77) OV101
R2B006	△	ARC 200-1 11(LA77) OV101
R2B076	◺	ARC 200-1 11(LA77) OV101
R2B048	⬠	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	25.000	.000	.000
.000	-5.000	25.000	.000	.000
.000	-10.000	25.000	.000	.000
.000	.000	25.000	.000	-10.000
.000	-5.000	25.000	.000	-10.000
.000	-10.000	25.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

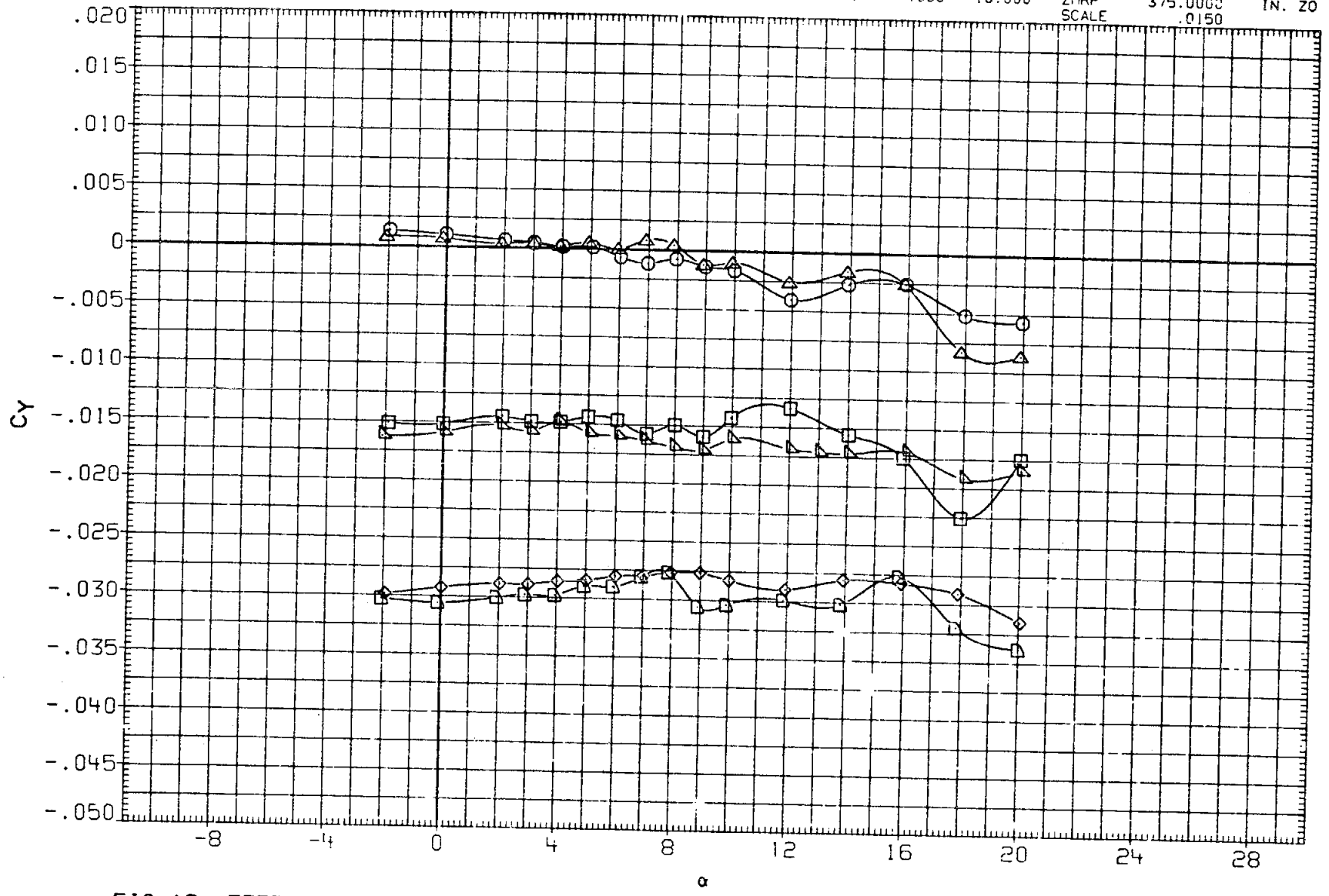

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B081	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B094	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

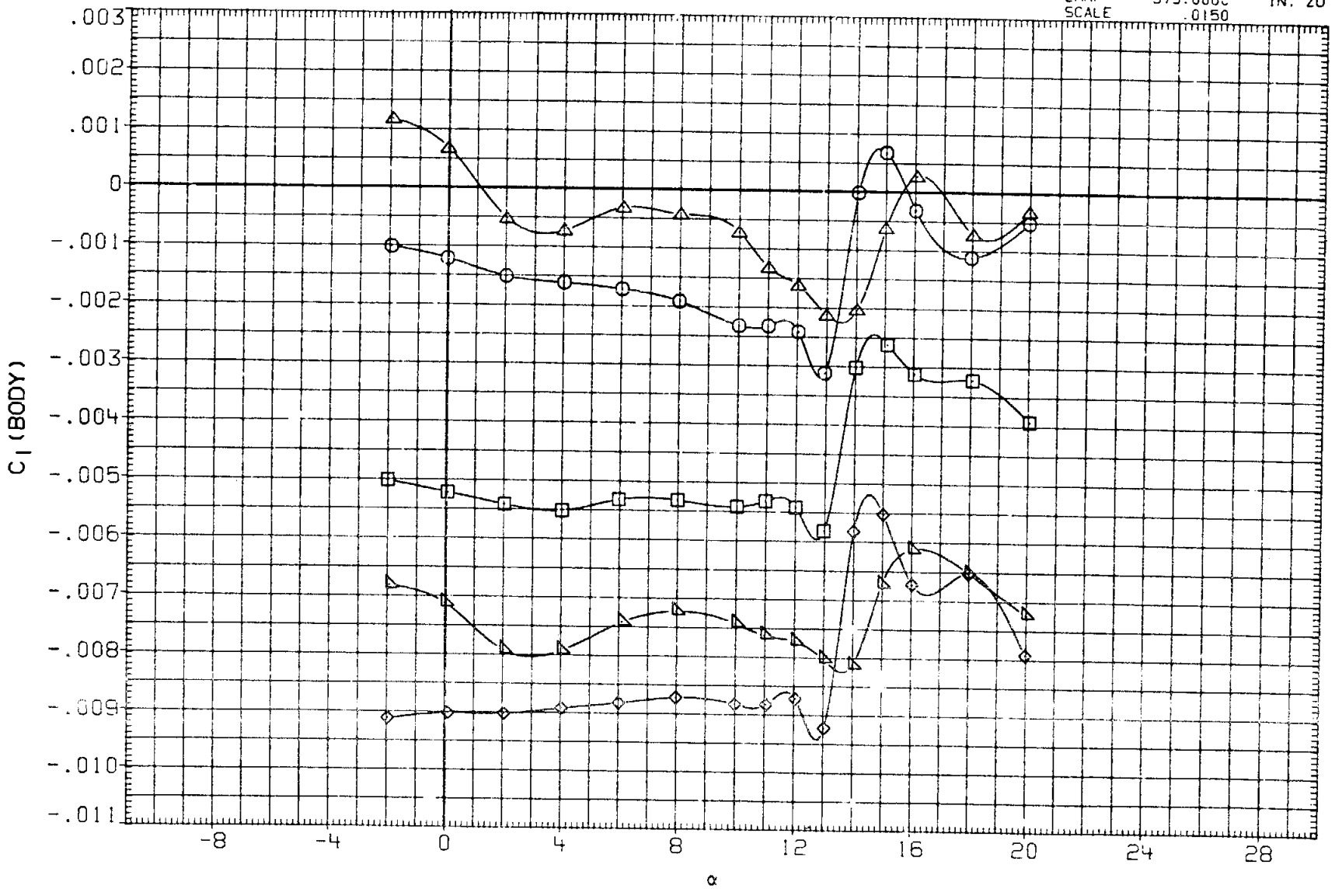

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B081	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B094	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	973.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

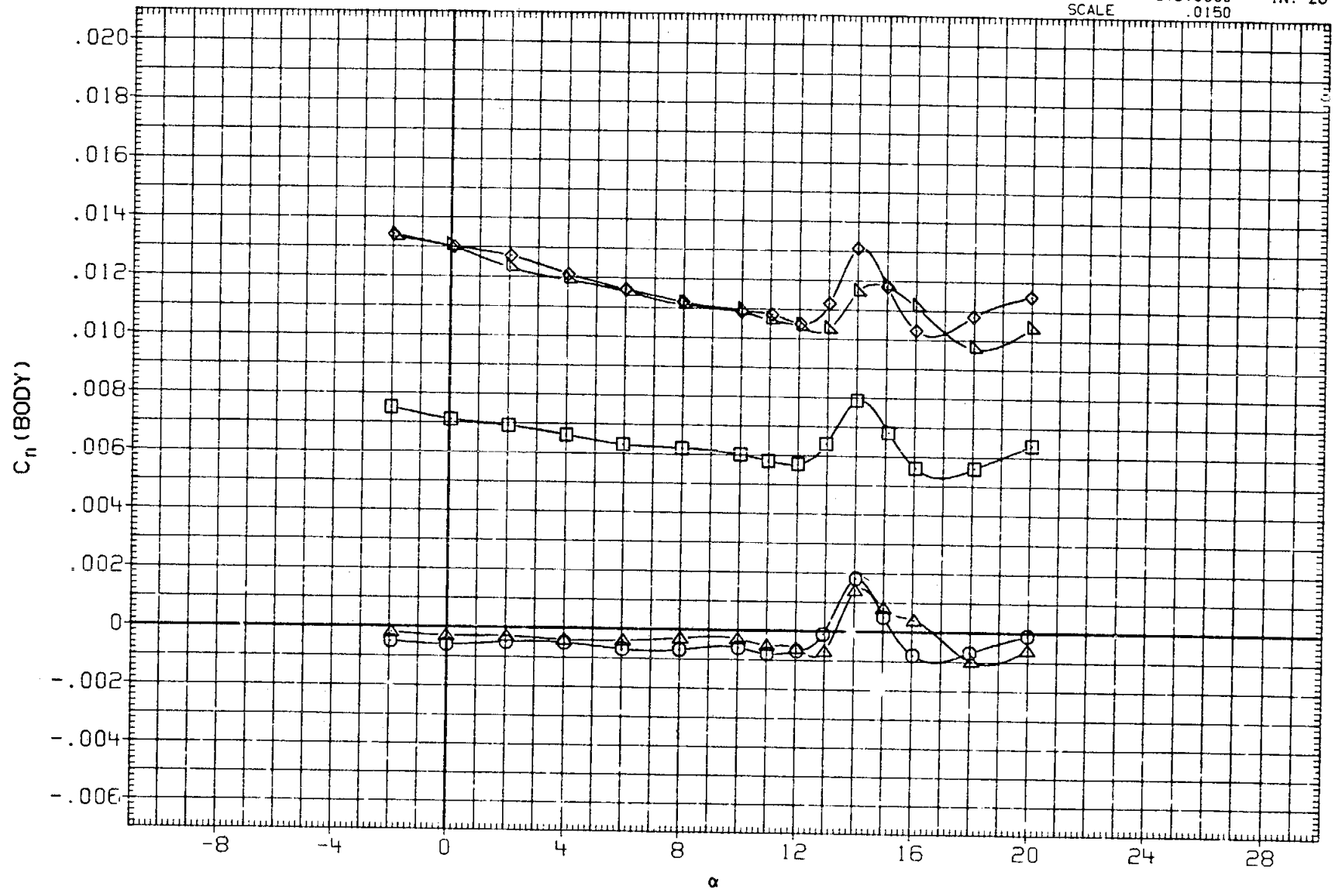

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B081	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B094	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

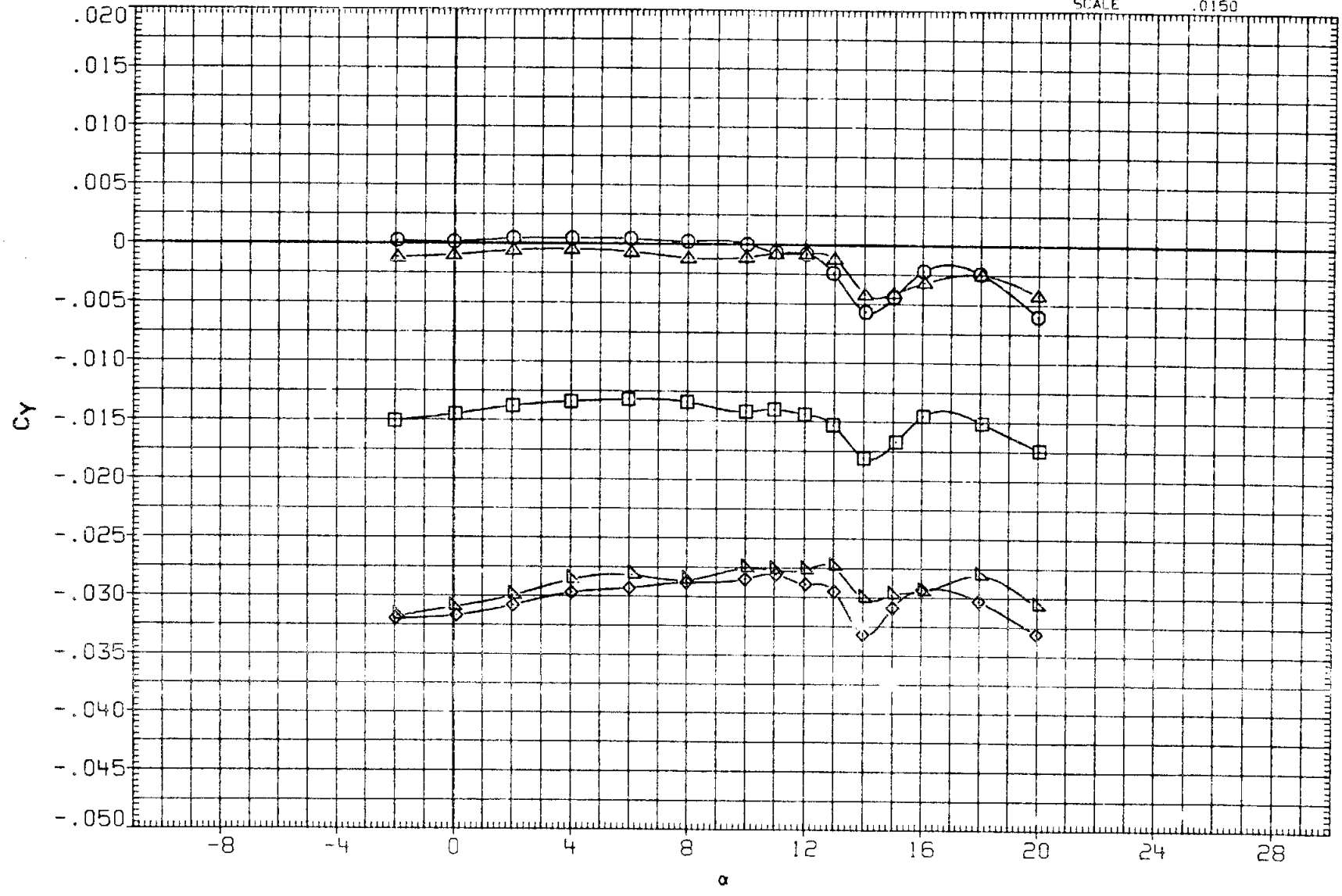

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B084	○	ARC 200-1 11(LA77) OV101
R2B138	□	ARC 200-1 11(LA77) OV101
R2B097	◇	ARC 200-1 11(LA77) OV101
R2B085	△	ARC 200-1 11(LA77) OV101
R2B098	◺	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	55.000	.000	.000
.000	-5.000	55.000	.000	.000
.000	-10.000	55.000	.000	.000
.000	.000	55.000	.000	-10.000
.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

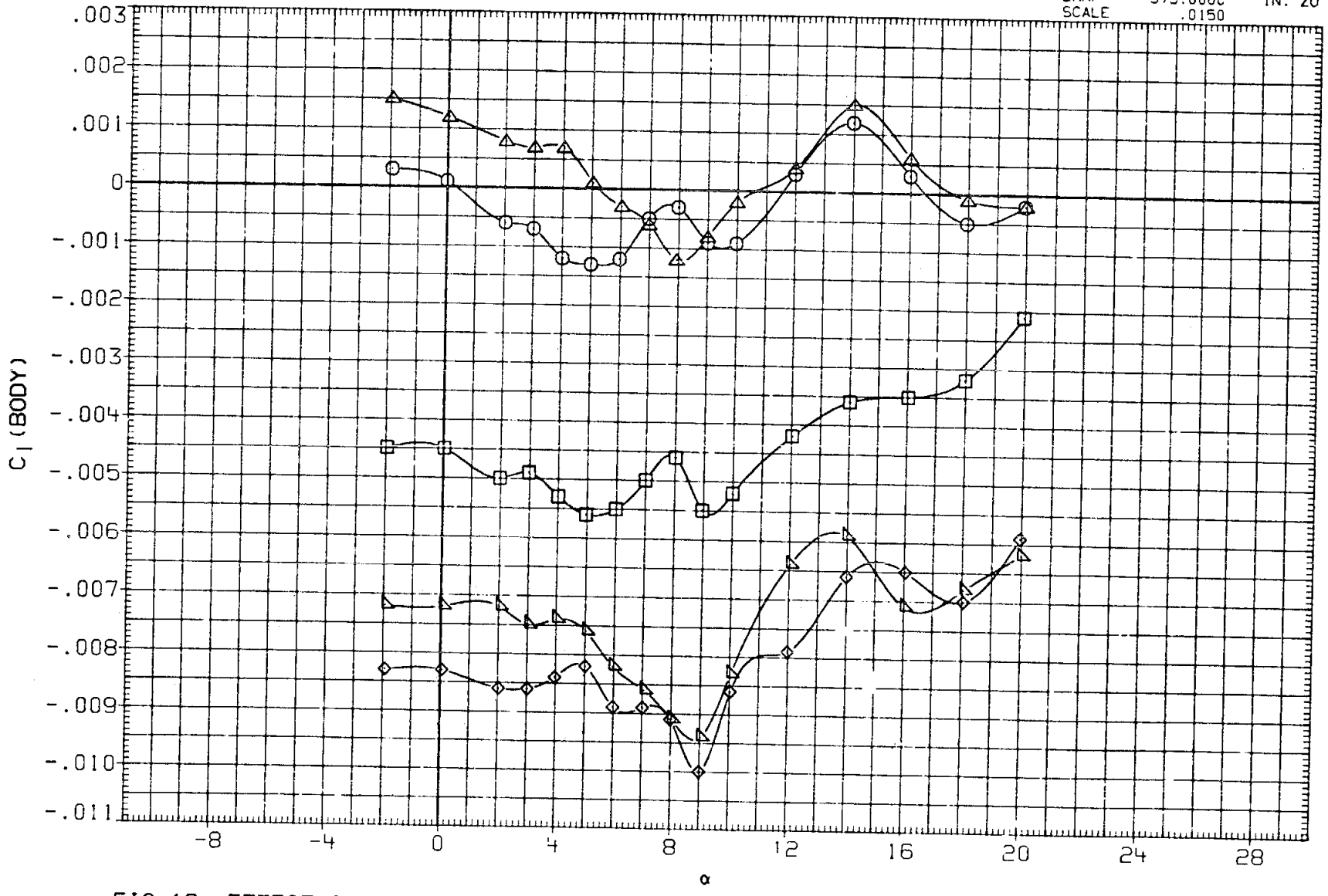

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

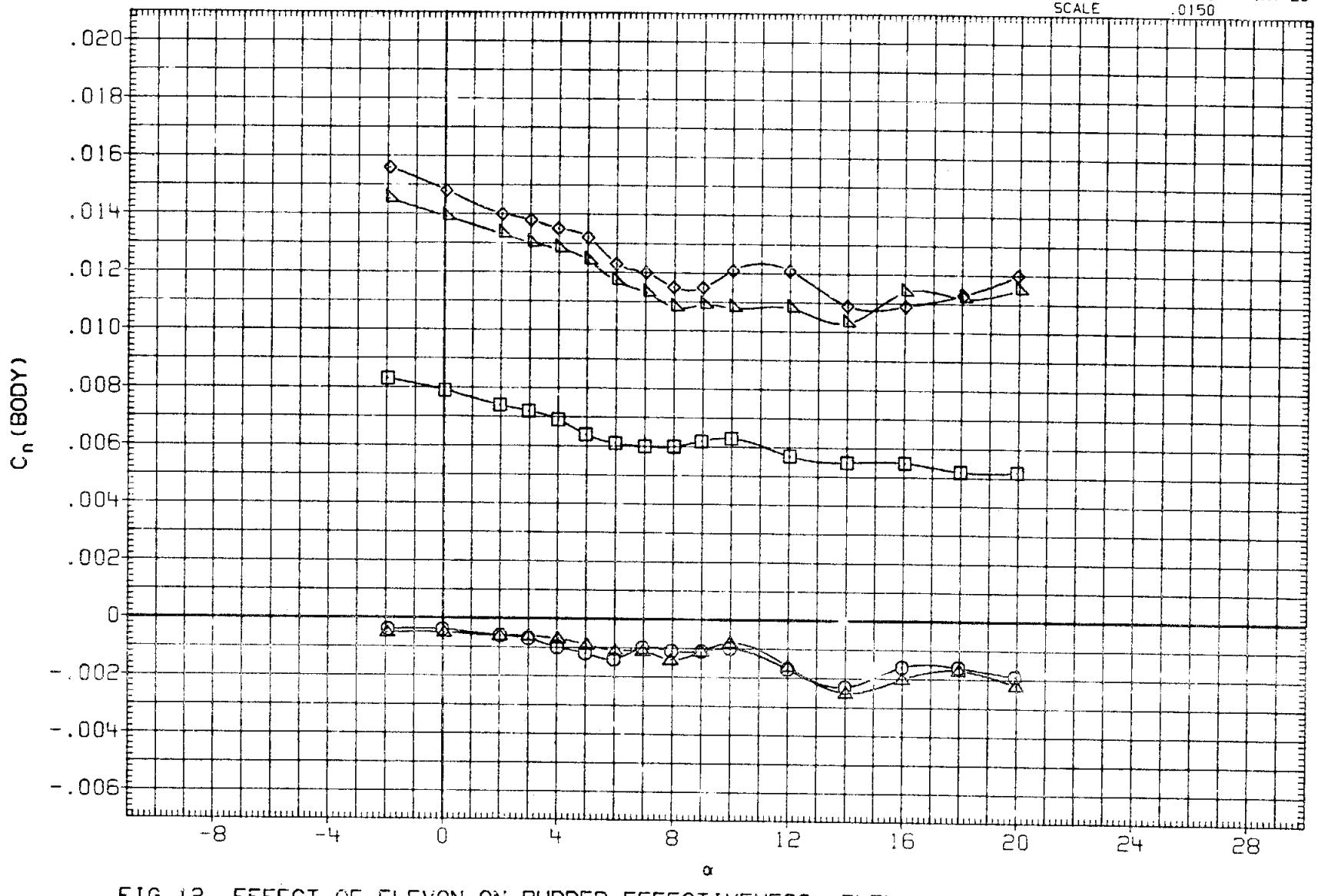

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

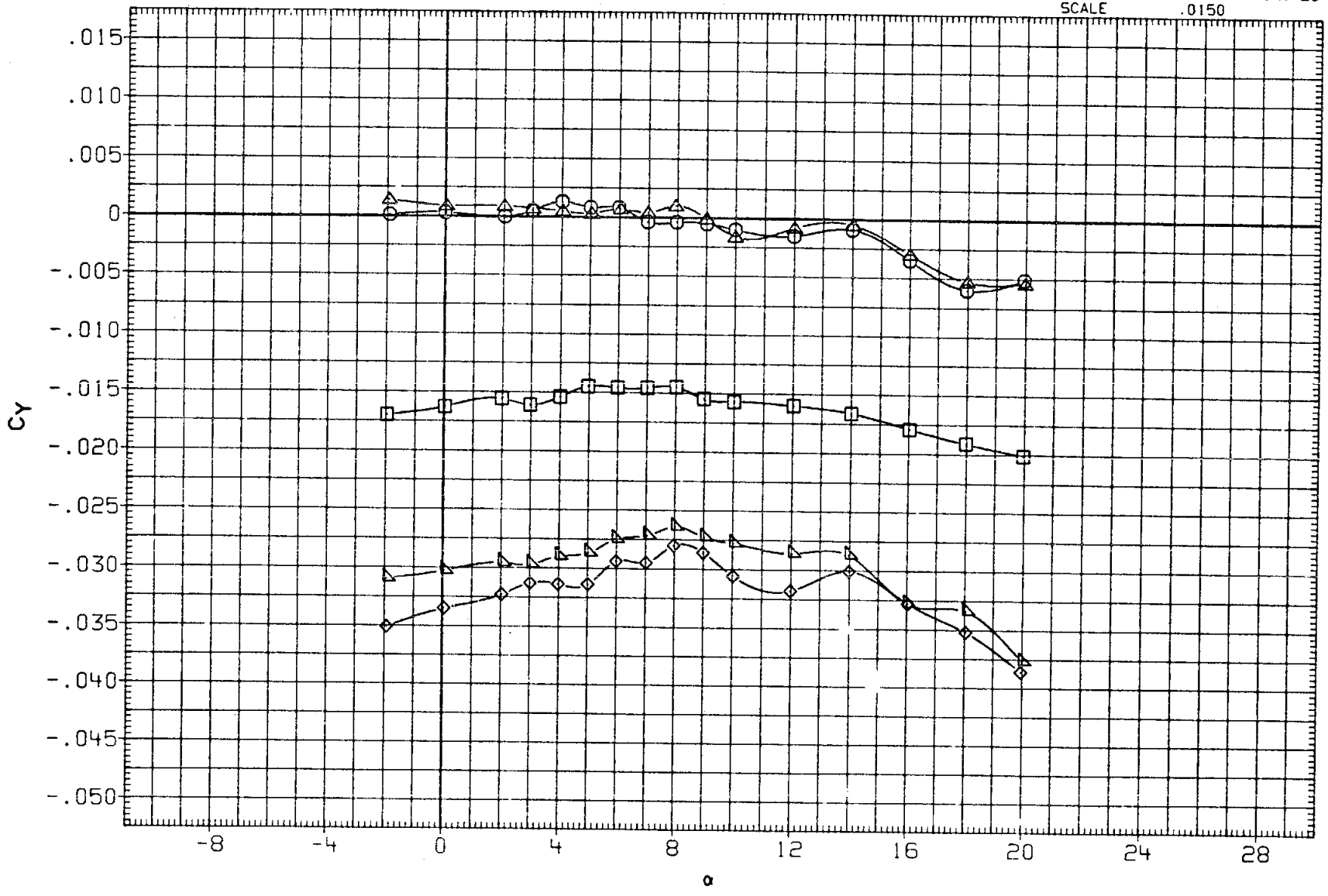

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBPK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

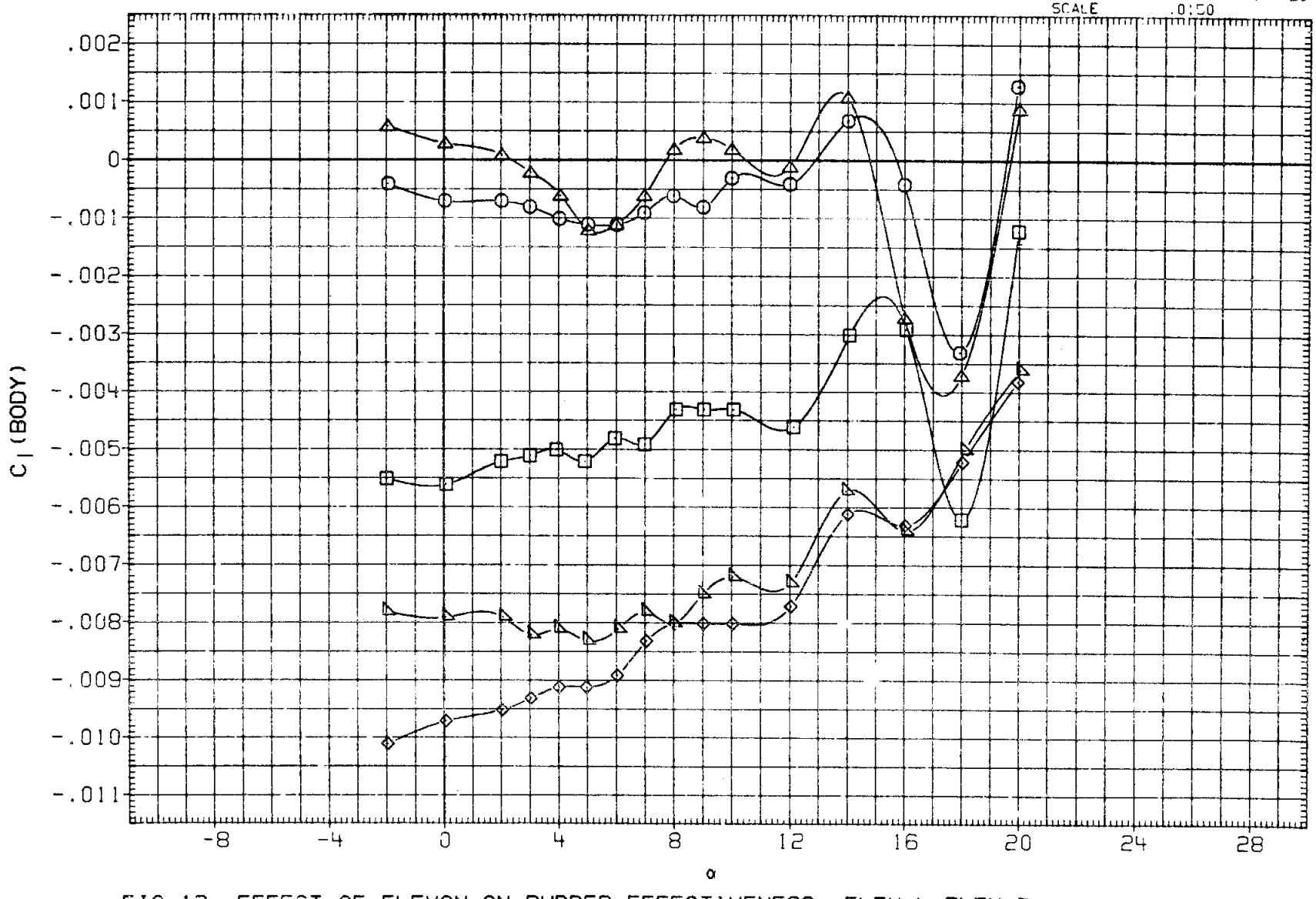

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B084	○	ARC 200-1 11(LA77) OV101
R2B138	□	ARC 200-1 11(LA77) OV101
R2B097	◇	ARC 200-1 11(LA77) OV101
R2B085	△	ARC 200-1 11(LA77) OV101
R2B098	◺	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	55.000	.000	.000
.000	-5.000	55.000	.000	.000
.000	-10.000	55.000	.000	.000
.000	.000	55.000	.000	-10.000
.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

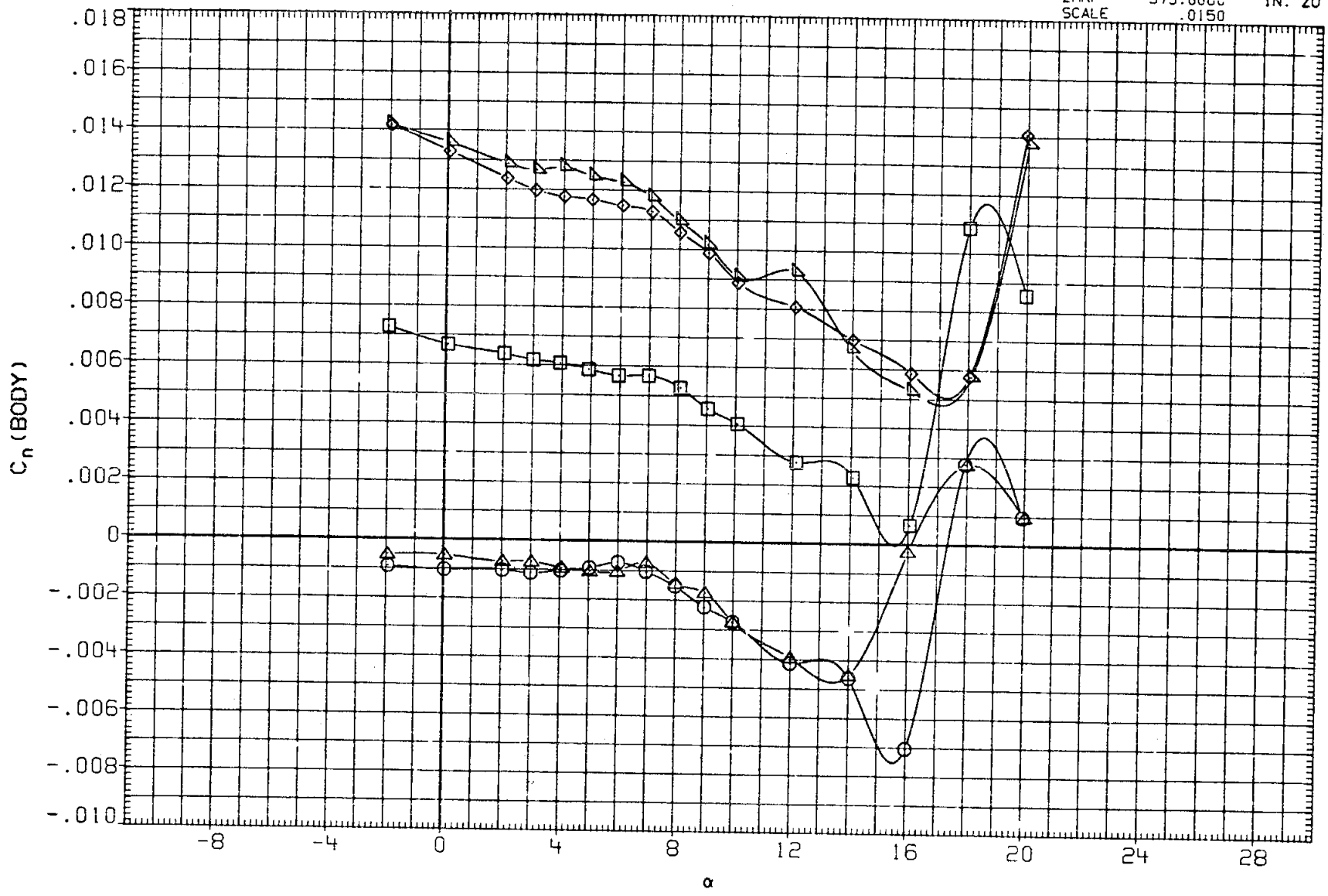

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

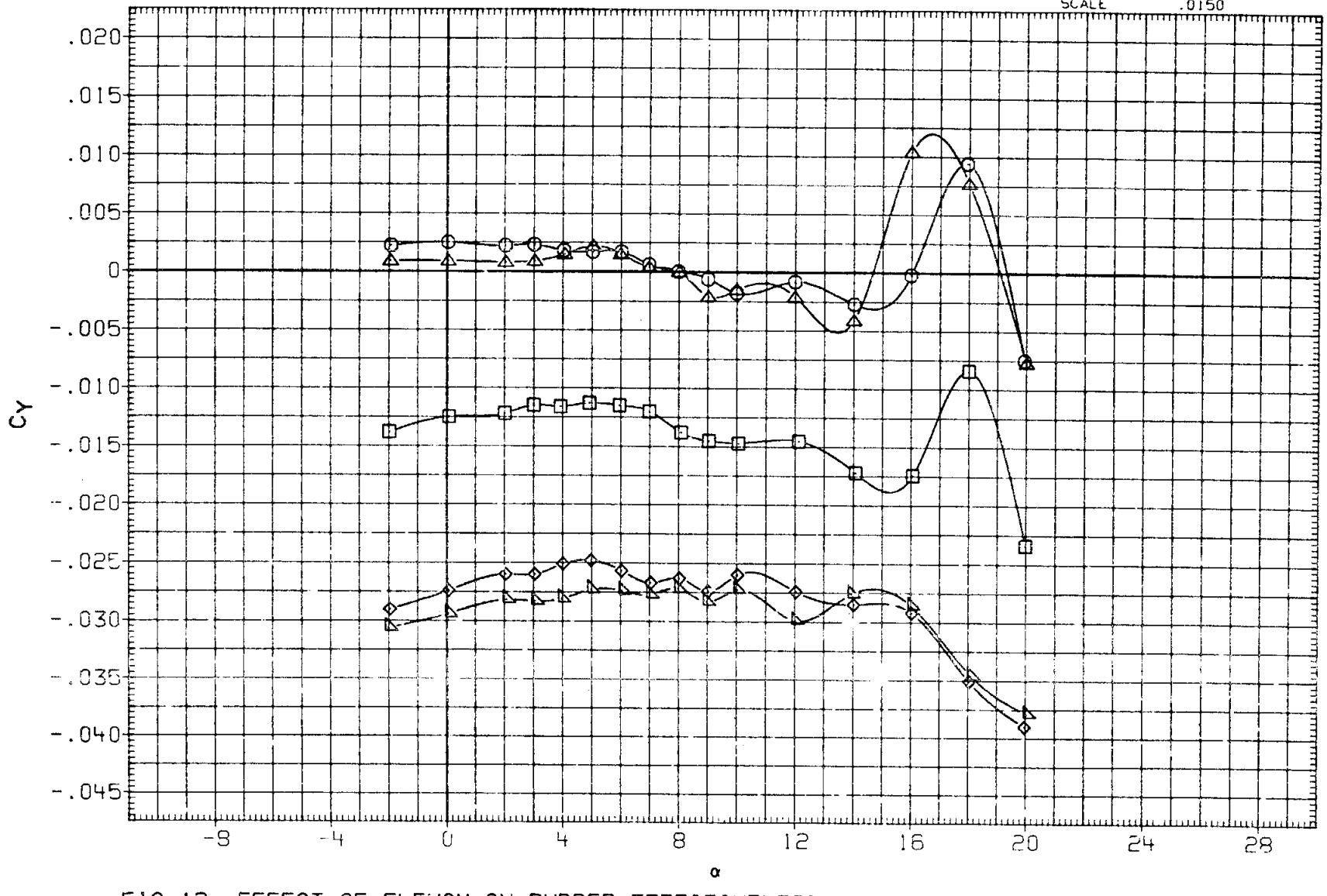

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

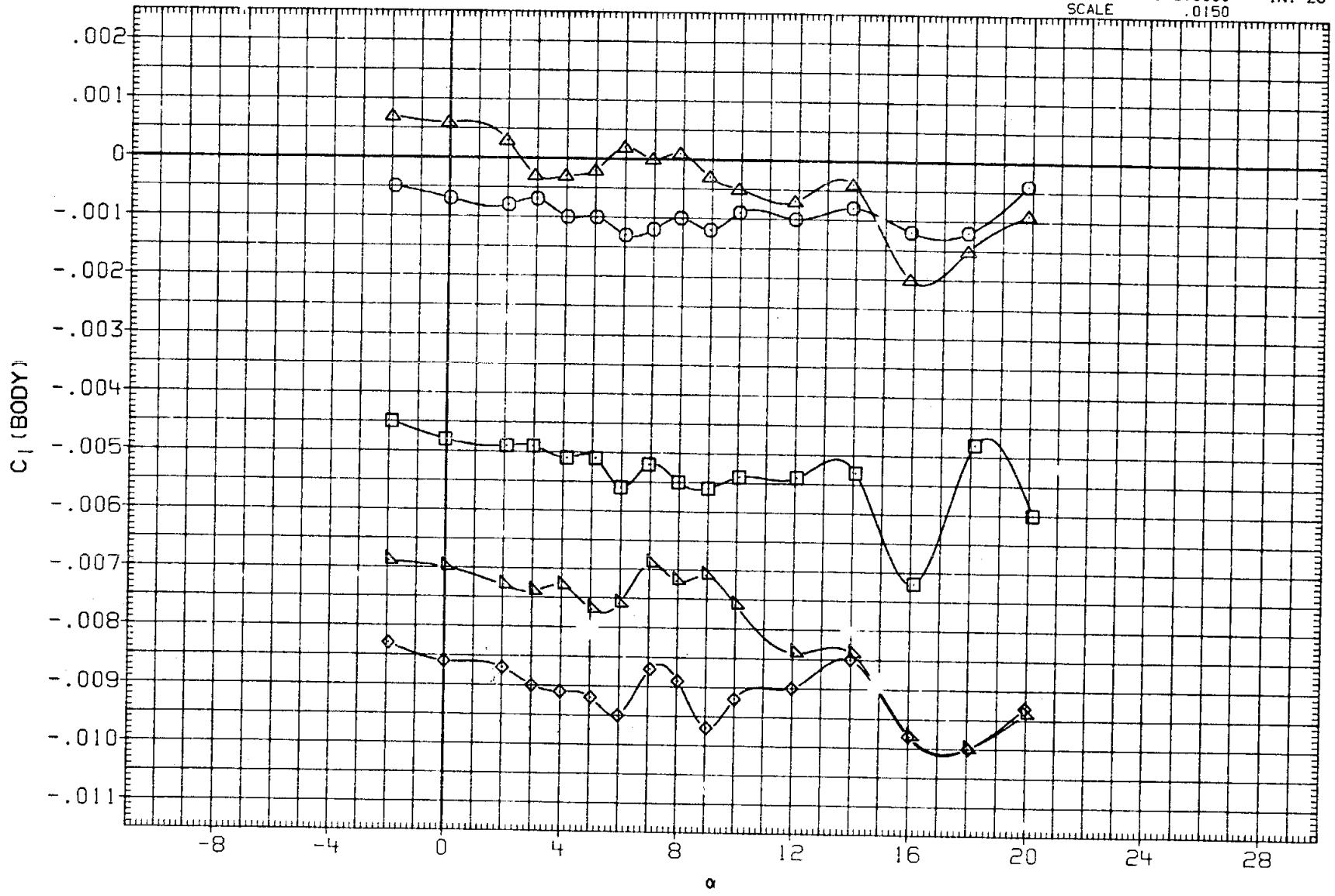

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

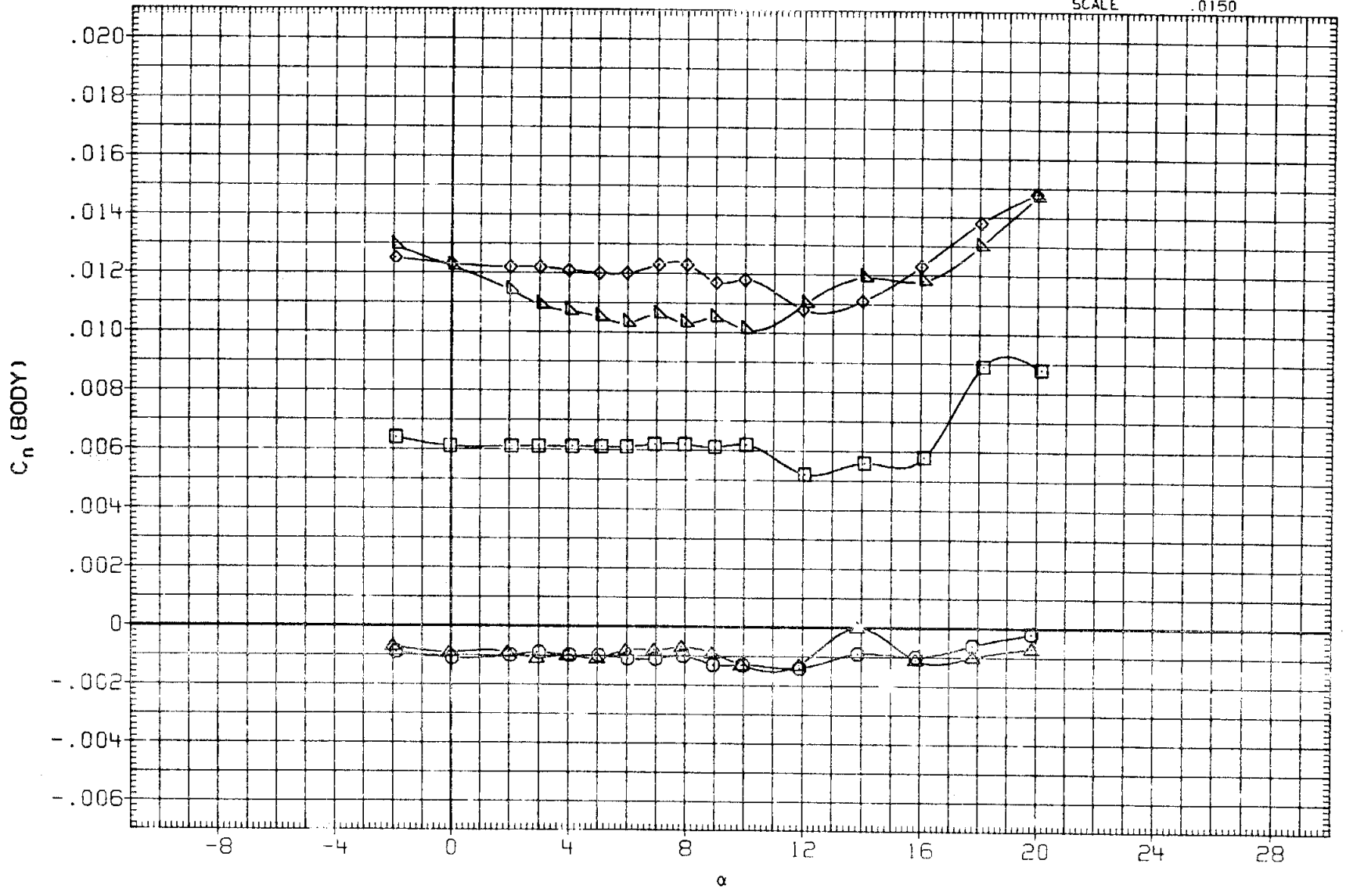

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B138	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B097	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B085	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B098	◺	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

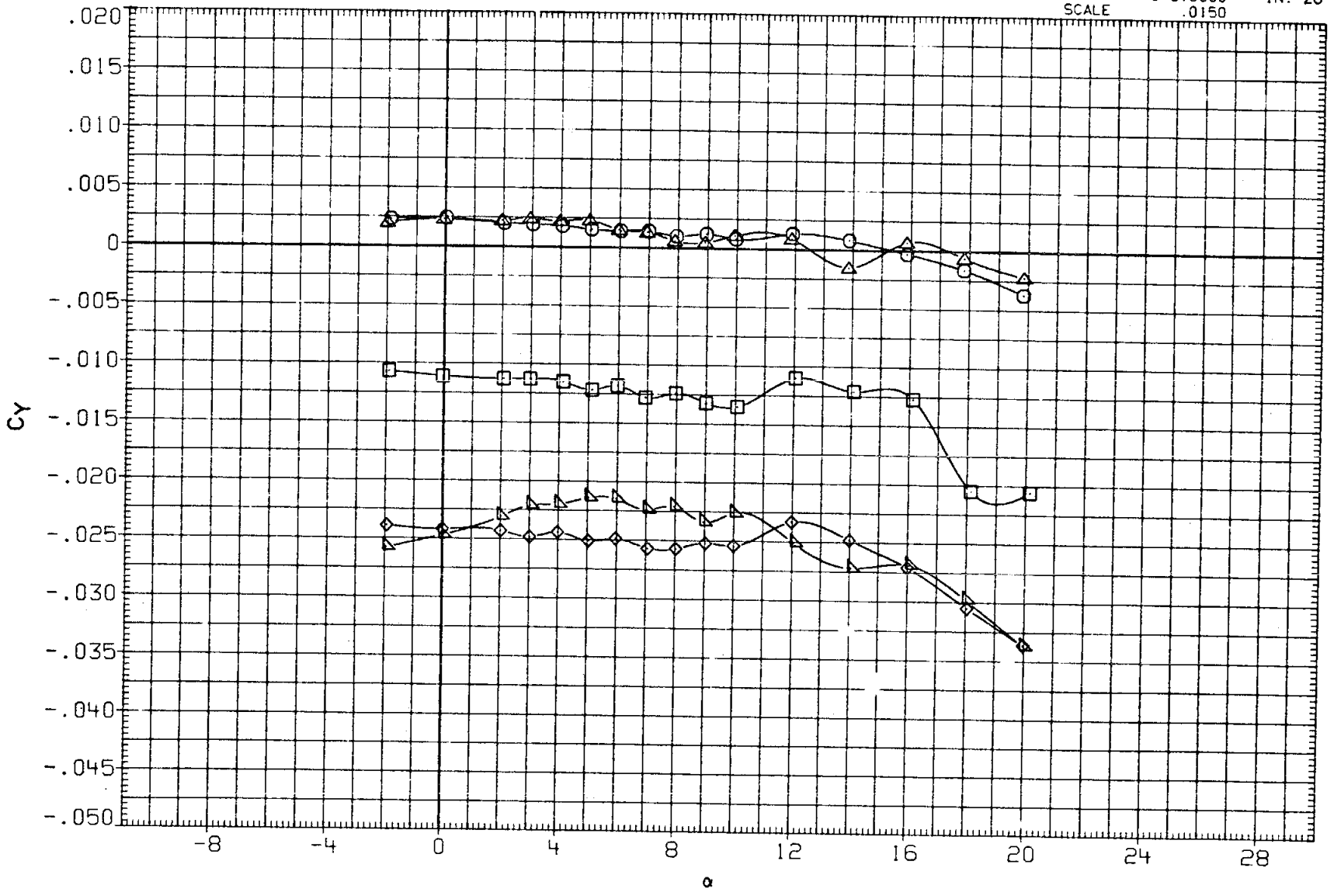

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B080	○	ARC 200-1 11(LA77) OV101
R2B135	□	ARC 200-1 11(LA77) OV101
R2B093	◇	ARC 200-1 11(LA77) OV101
R2B081	△	DATA NOT AVAILABLE
R2B094	◺	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	55.000	.000	.000
.000	-5.000	55.000	.000	.000
.000	-10.000	55.000	.000	.000
.000	.000	55.000	.000	-10.000
.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

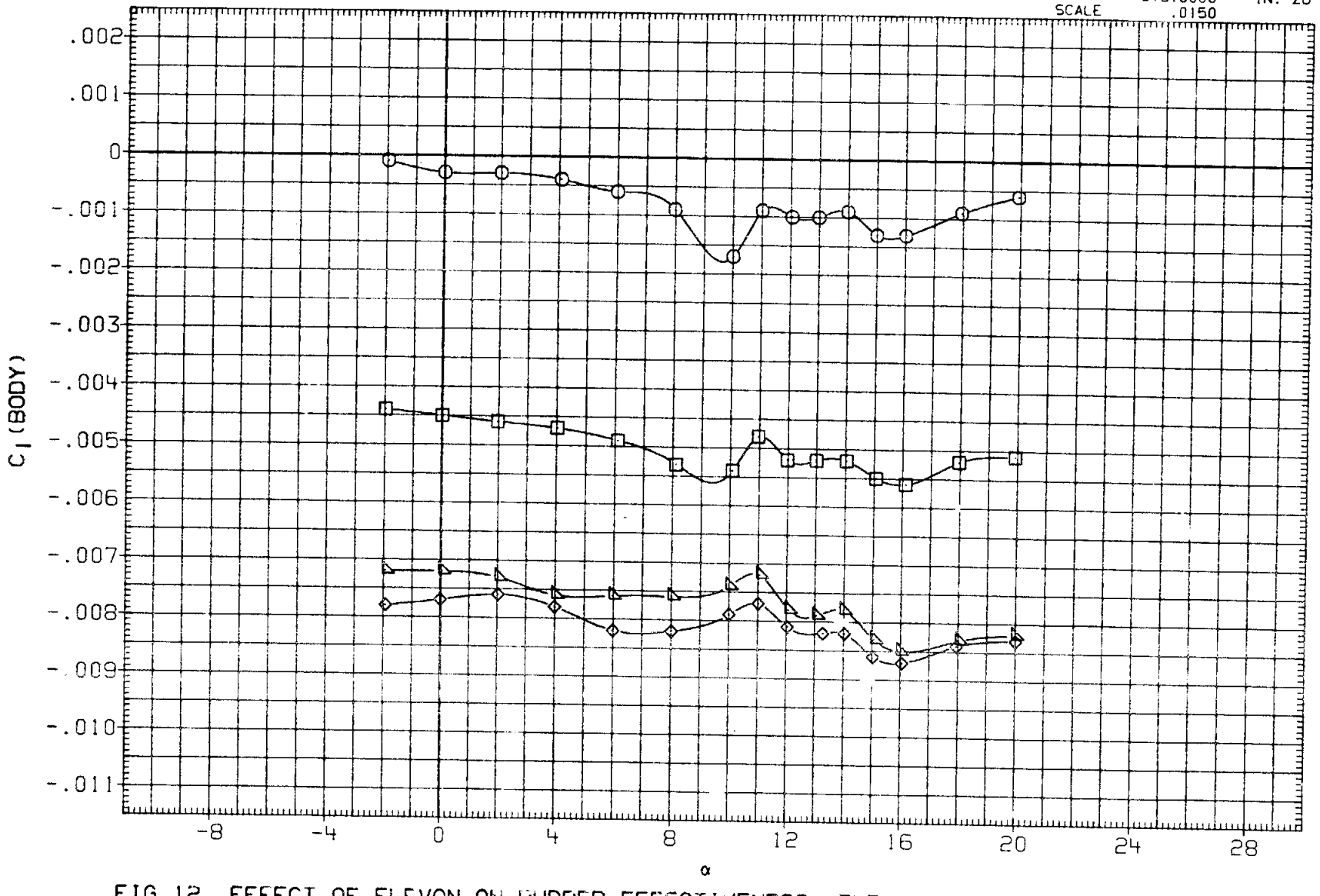

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B080	○	ARC 200-1 11(LA77) OV101
R2B135	□	ARC 200-1 11(LA77) OV101
R2B093	◇	ARC 200-1 11(LA77) OV101
R2B081	△	DATA NOT AVAILABLE
R2B094	◺	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	55.000	.000	.000
.000	-5.000	55.000	.000	.000
.000	-10.000	55.000	.000	.000
.000	.000	55.000	.000	-10.000
.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

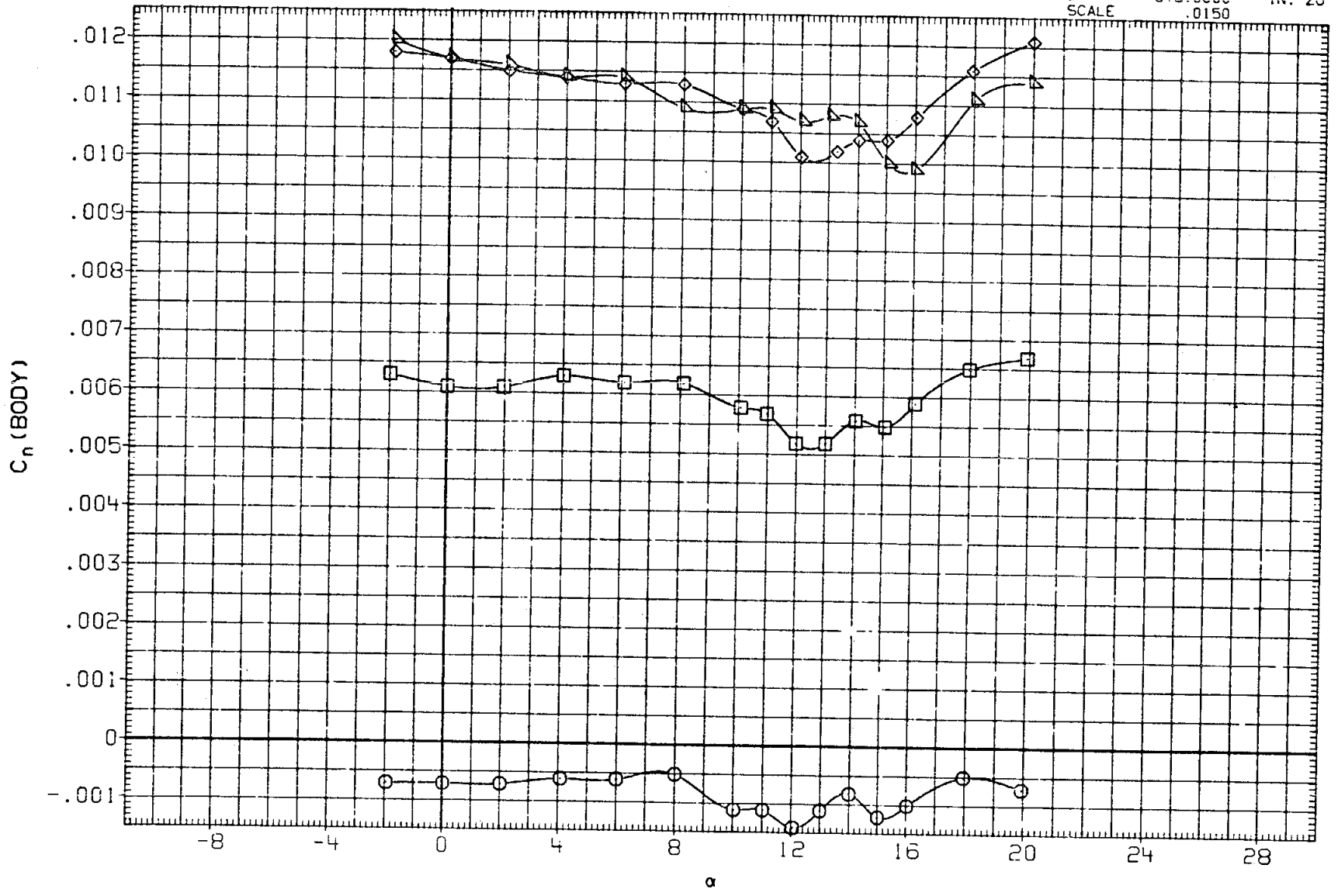

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B135	□	ARC 200-1 11(LA77) OV101	.000	-5.000	55.000	.000	.000
R2B093	◇	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	.000
R2B081	△	DATA NOT AVAILABLE	.000	.000	55.000	.000	-10.000
R2B094	▷	ARC 200-1 11(LA77) OV101	.000	-10.000	55.000	.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

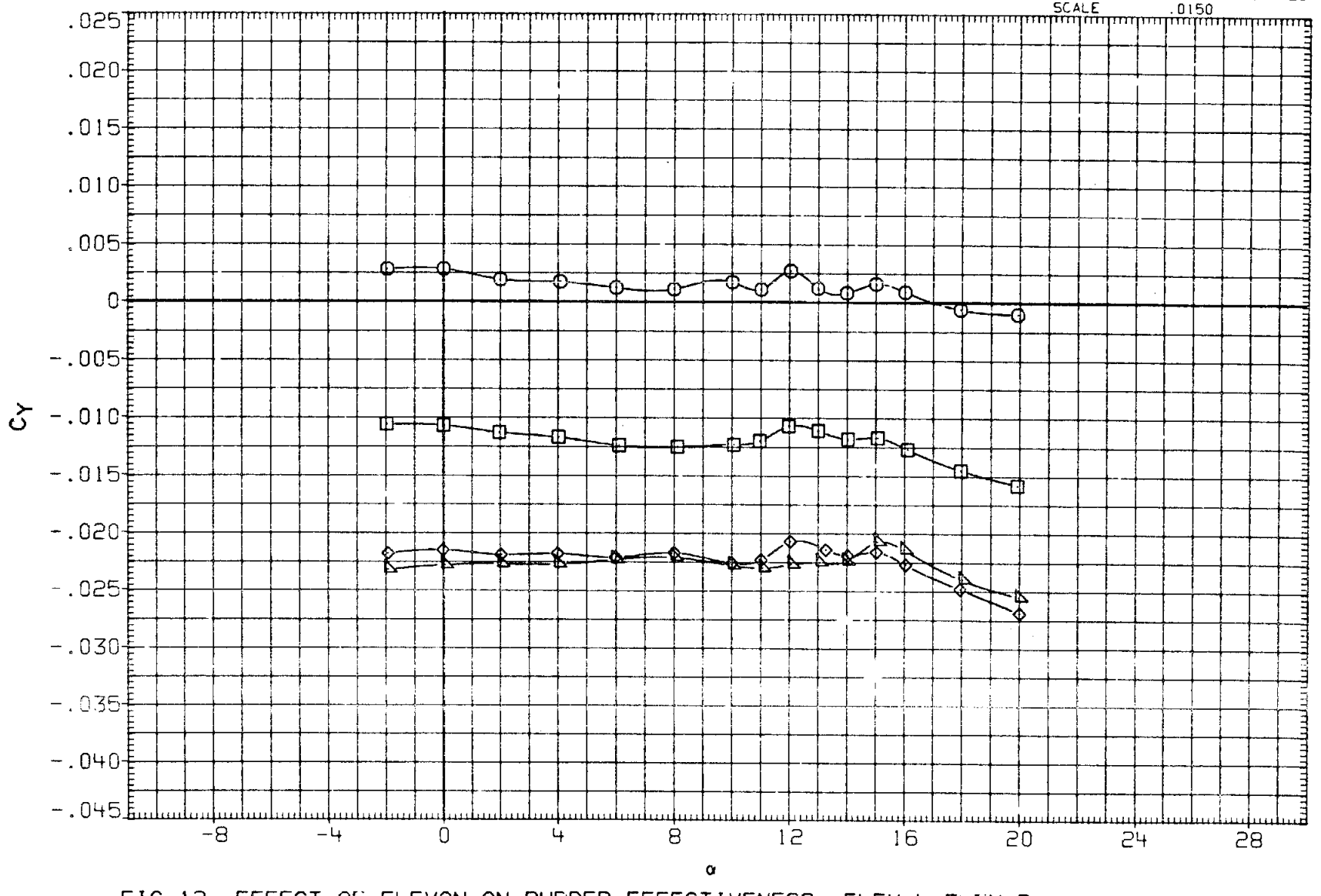

FIG.12 EFFECT OF ELEVON ON RUDDER EFFECTIVENESS, ELEV-L=ELEV-R

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B103	○	ARC 200-I 11(LA77) OV101
R2B104	□	ARC 200-I 11(LA77) OV101
R2B106	◇	ARC 200-I 11(LA77) OV101
R2B105	△	DATA NOT AVAILABLE

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	.000	.000	.000
.000	.000	.000	.000	-10.000
.000	.000	.000	4.000	.000
.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

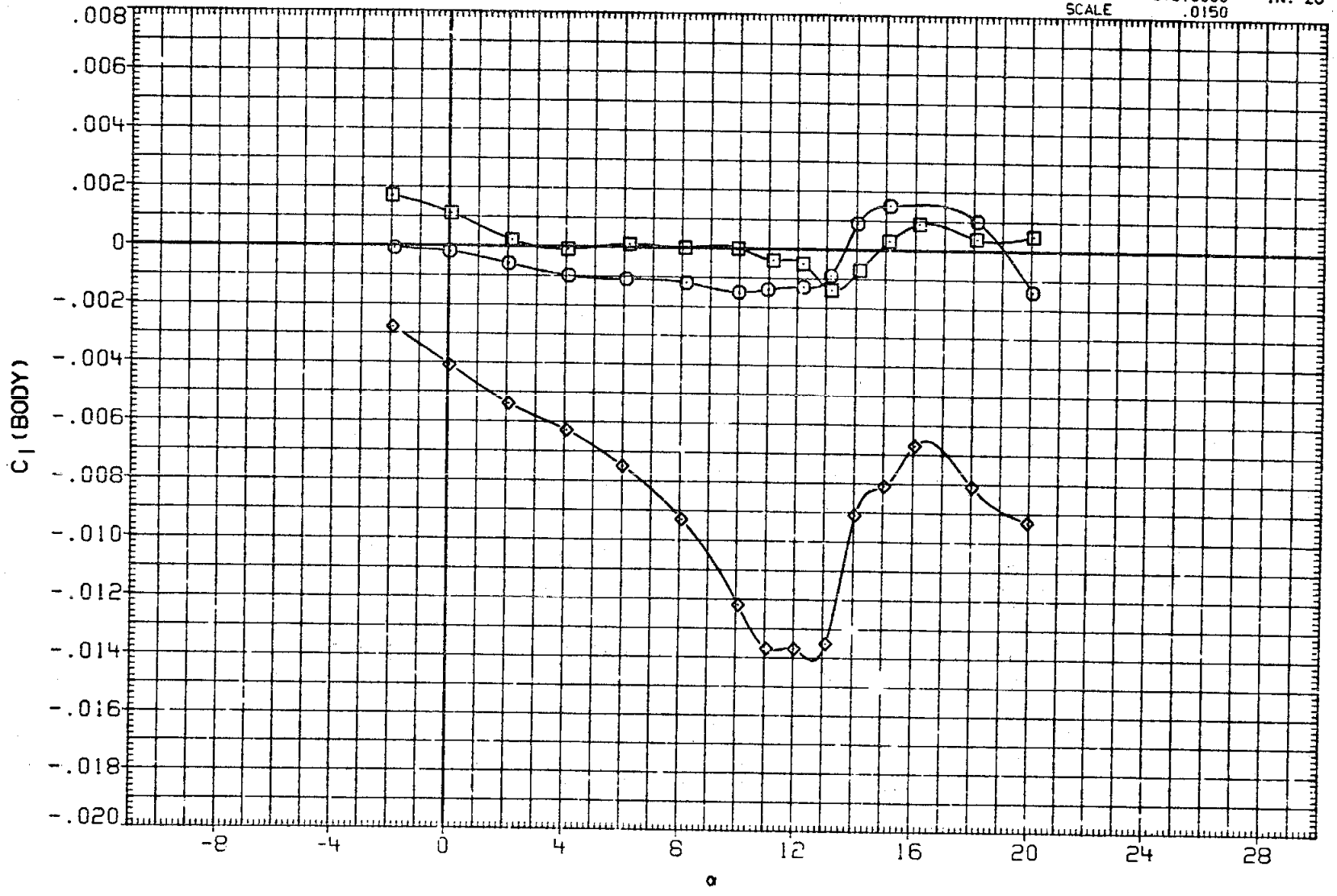

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B104	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B106	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B105	△	DATA NOT AVAILABLE	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

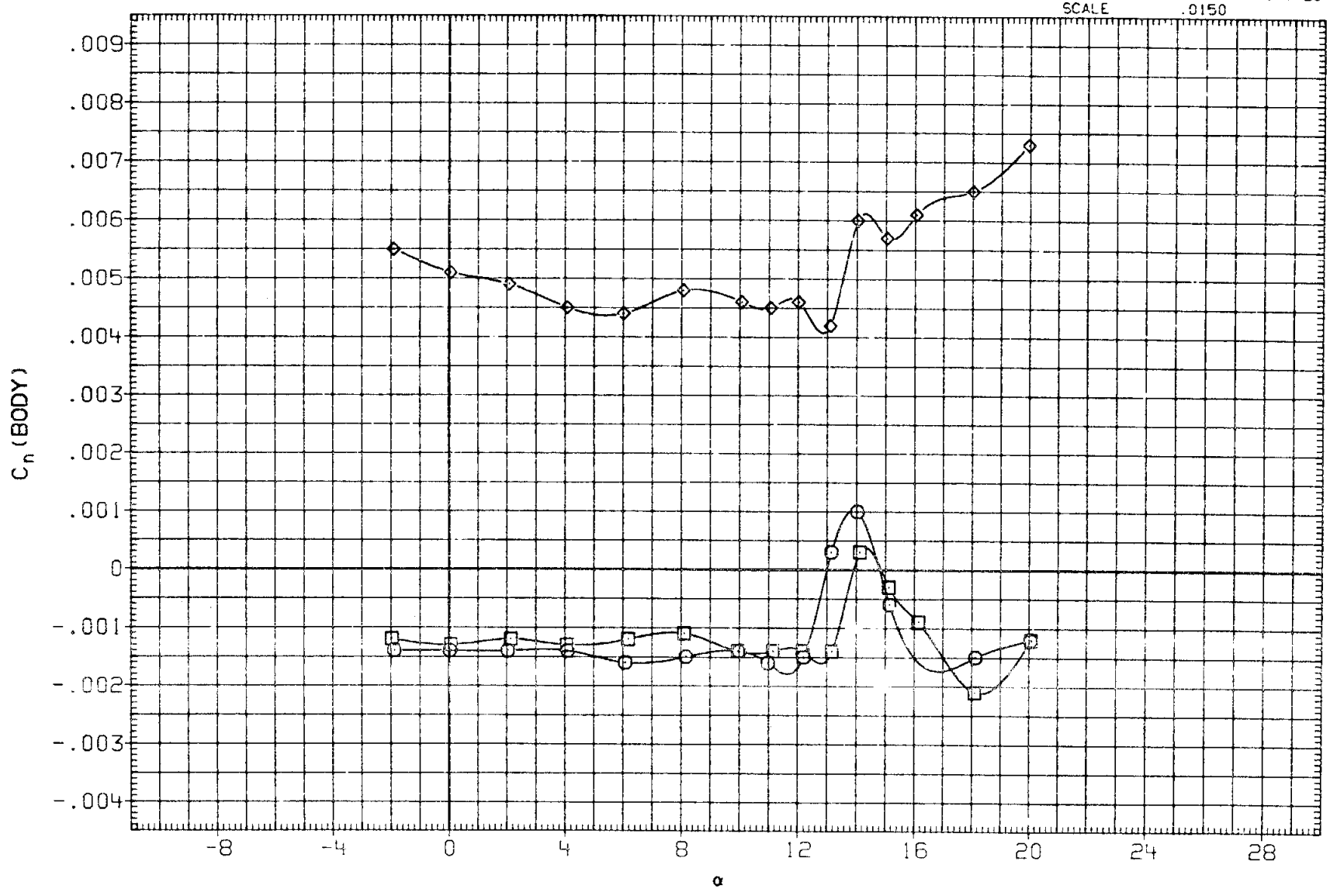

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B104	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B106	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B105	△	DATA NOT AVAILABLE	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

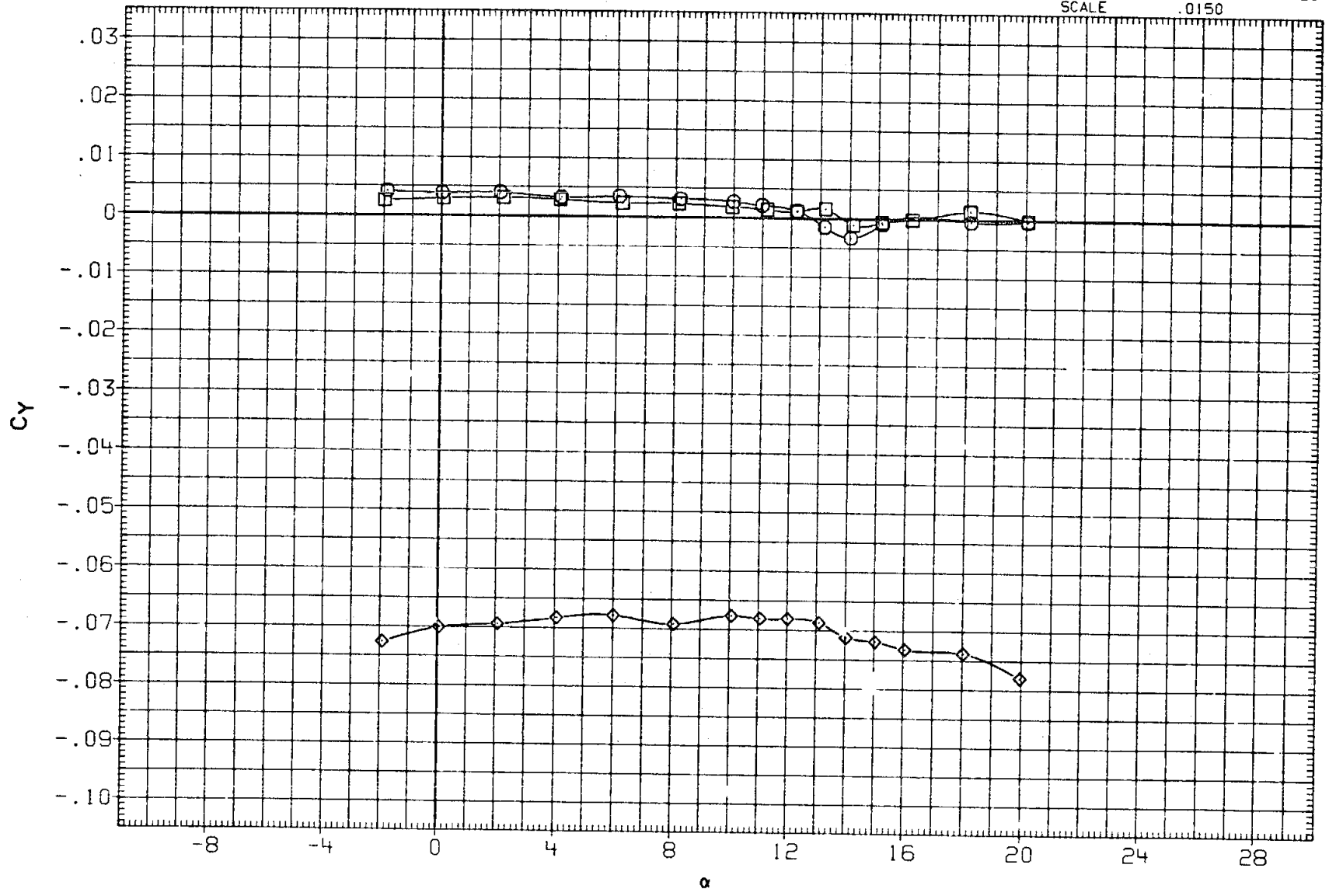

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R28109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R28111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R28110	△	DATA NOT AVAILABLE	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

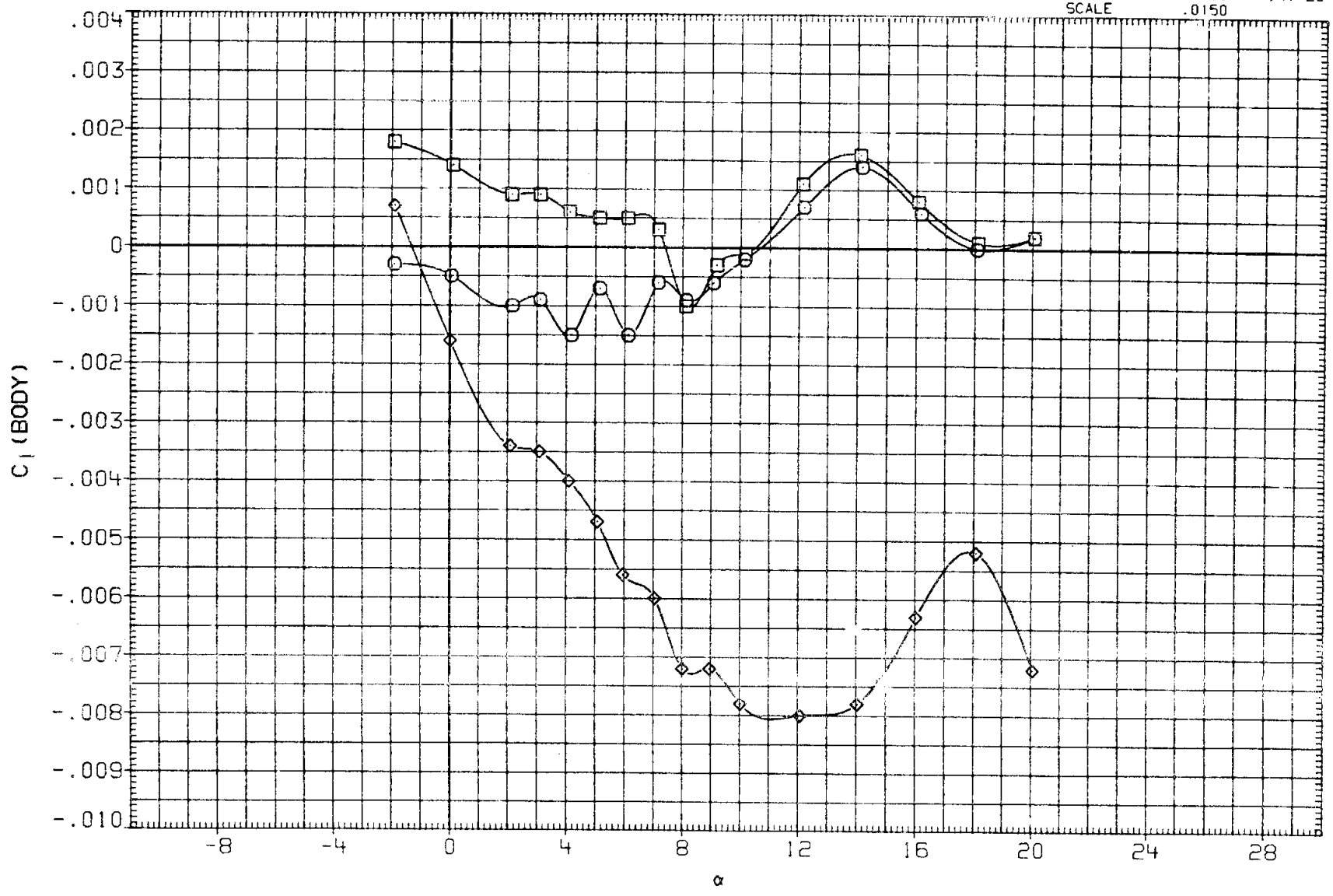

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B108	○	ARC 200-1 11(LA77) OV101
R2B109	□	ARC 200-1 11(LA77) OV101
R2B111	◇	ARC 200-1 11(LA77) OV101
R2B110	△	DATA NOT AVAILABLE

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	.000	.000	.000
.000	.000	.000	.000	-10.000
.000	.000	.000	4.000	.000
.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

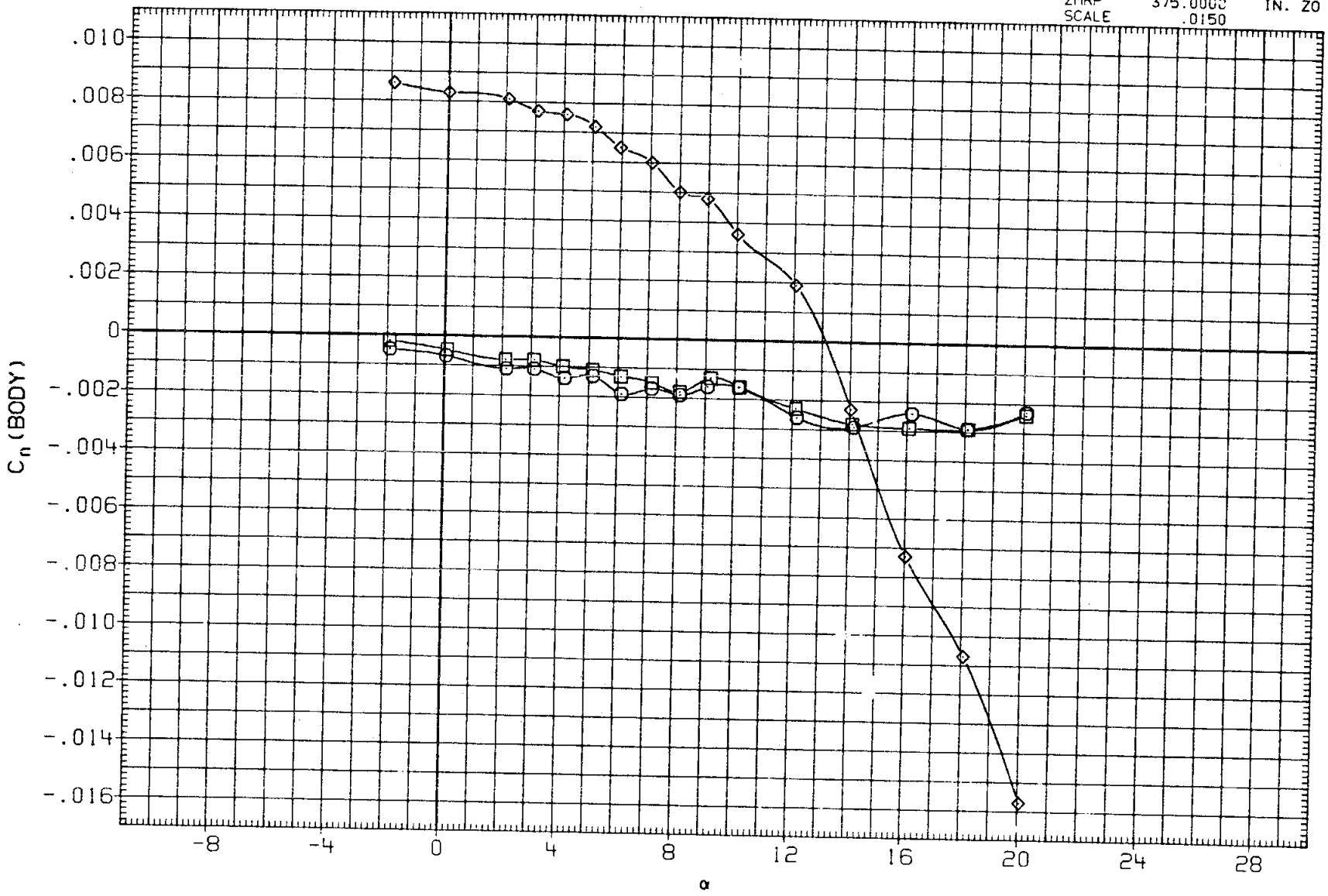

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	DATA NOT AVAILABLE	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

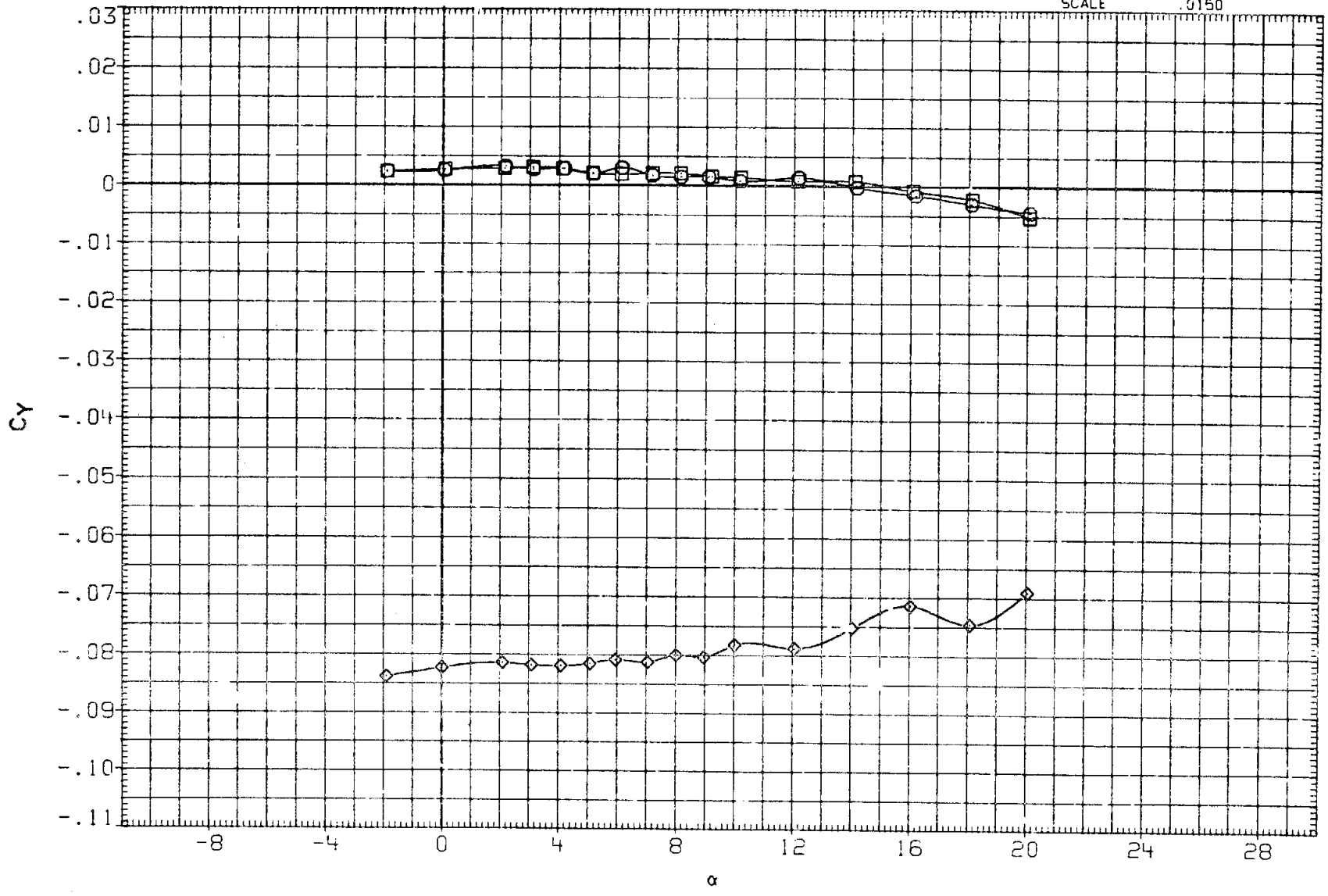

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

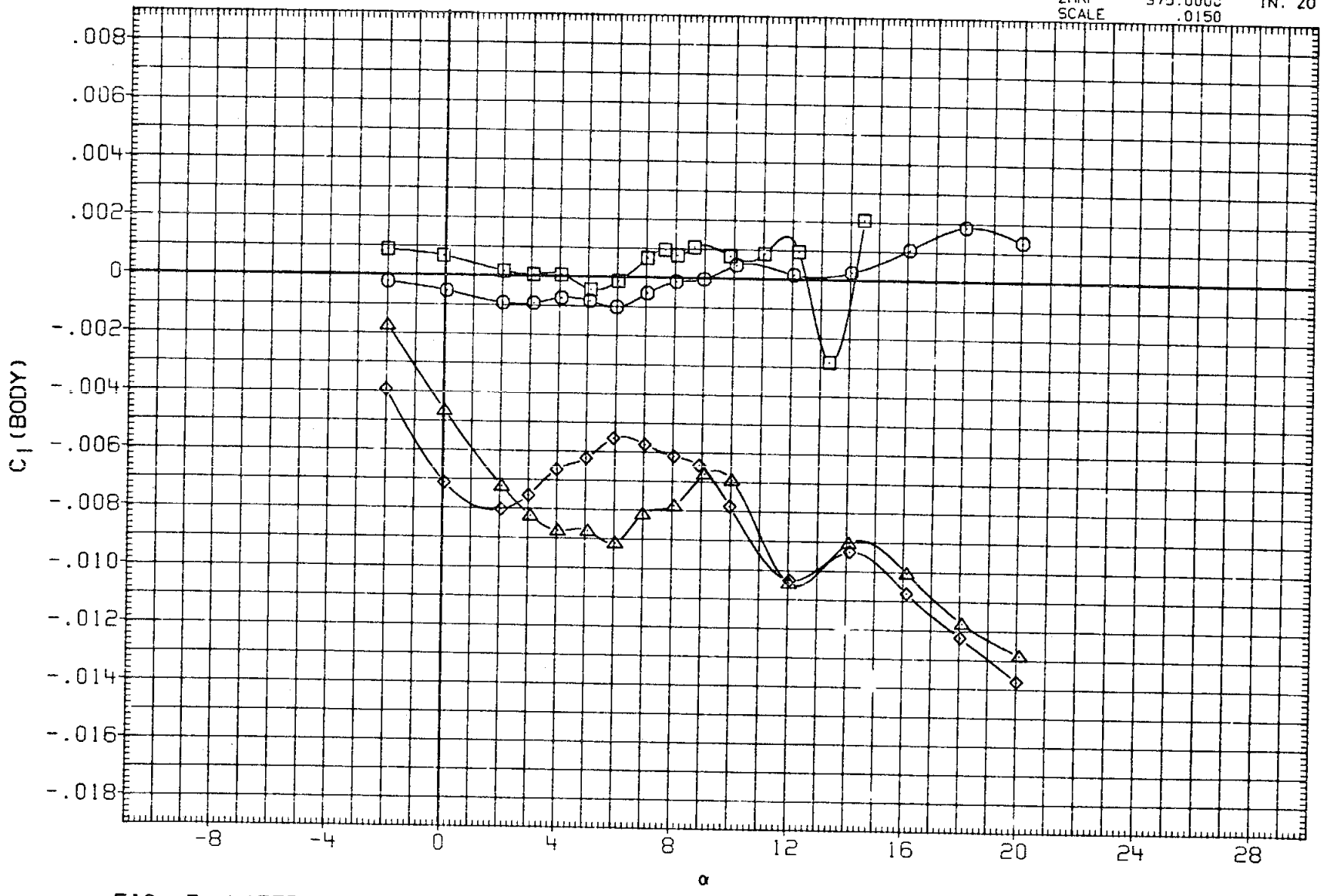

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

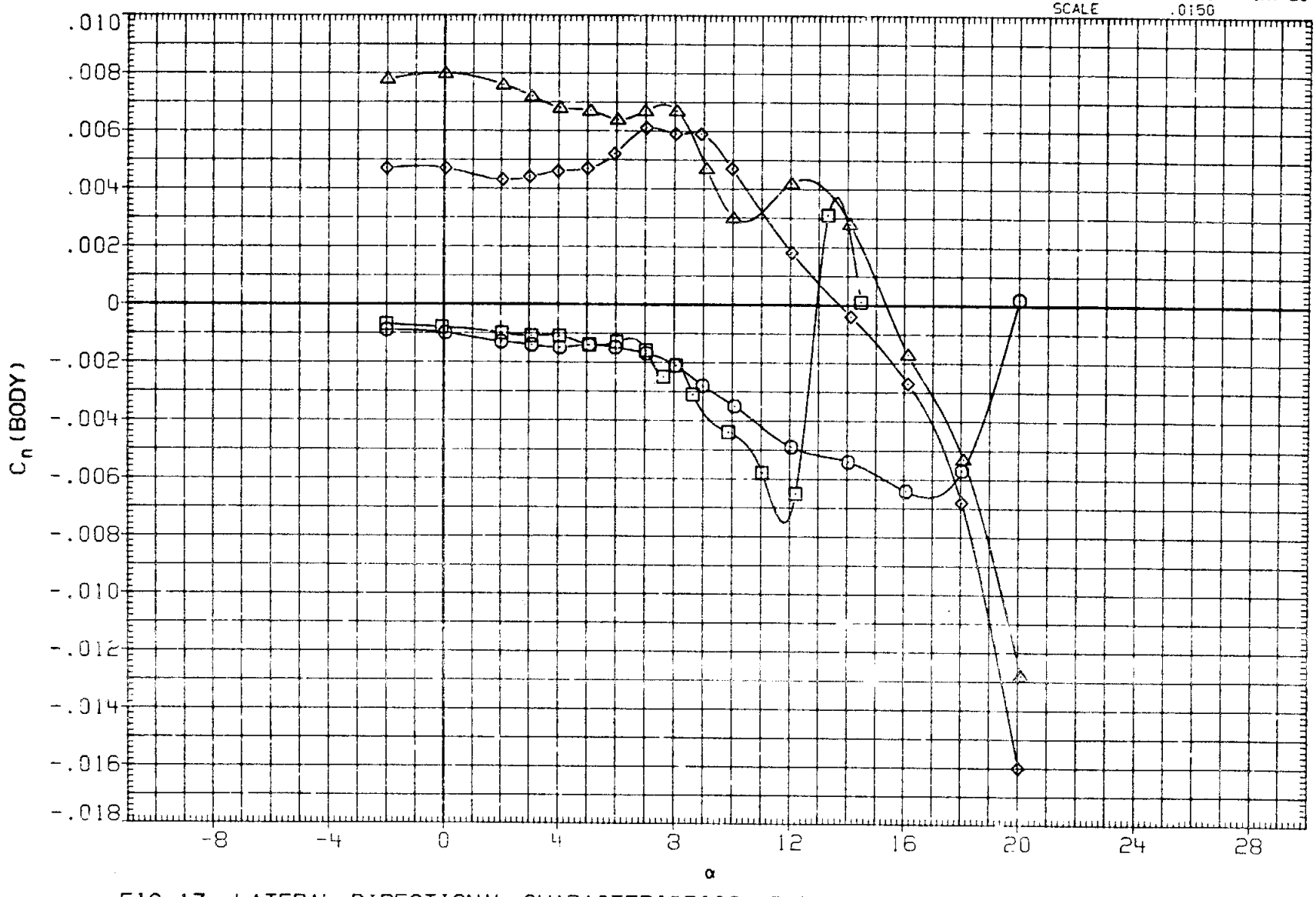

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R28109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R28111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R28110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

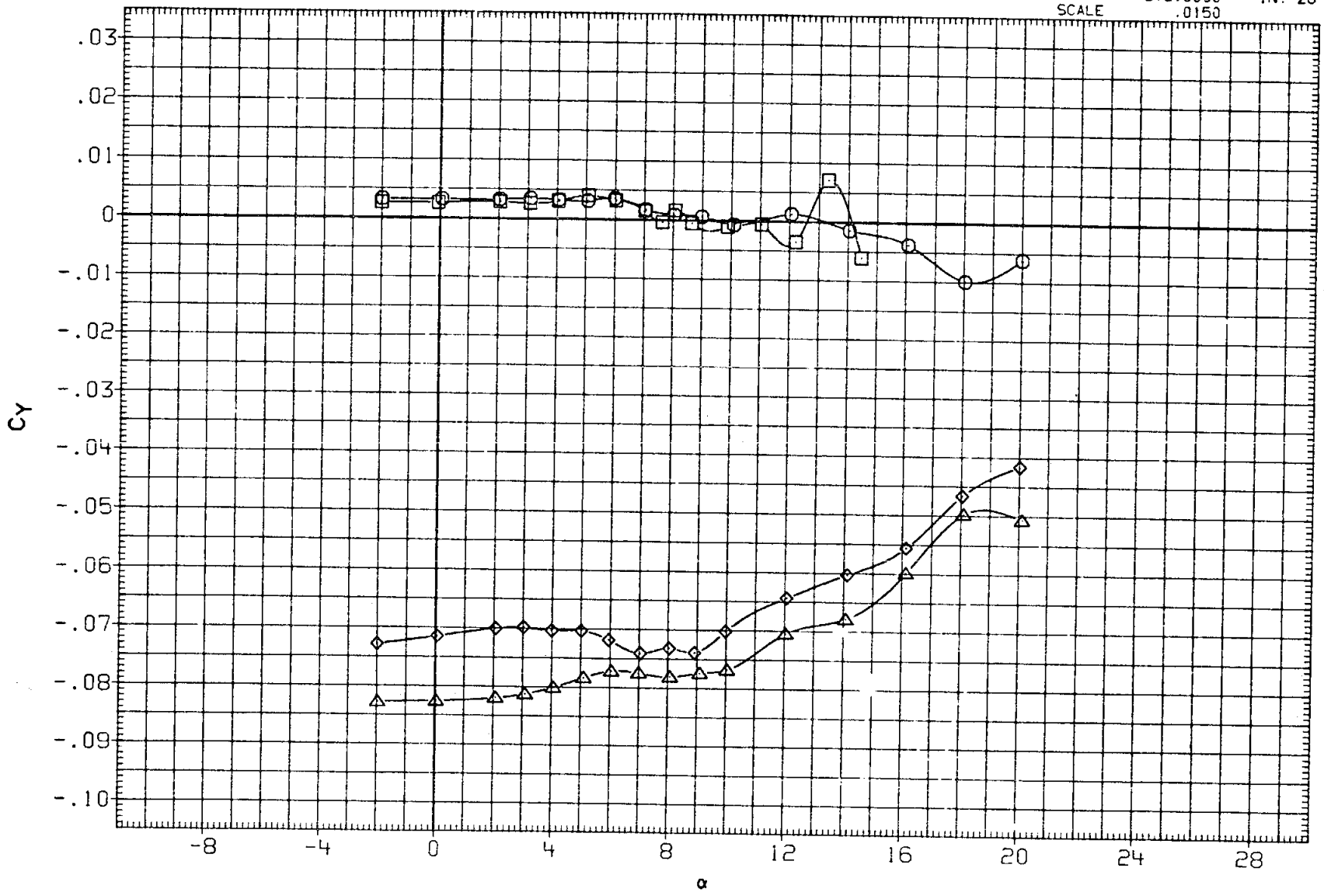

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

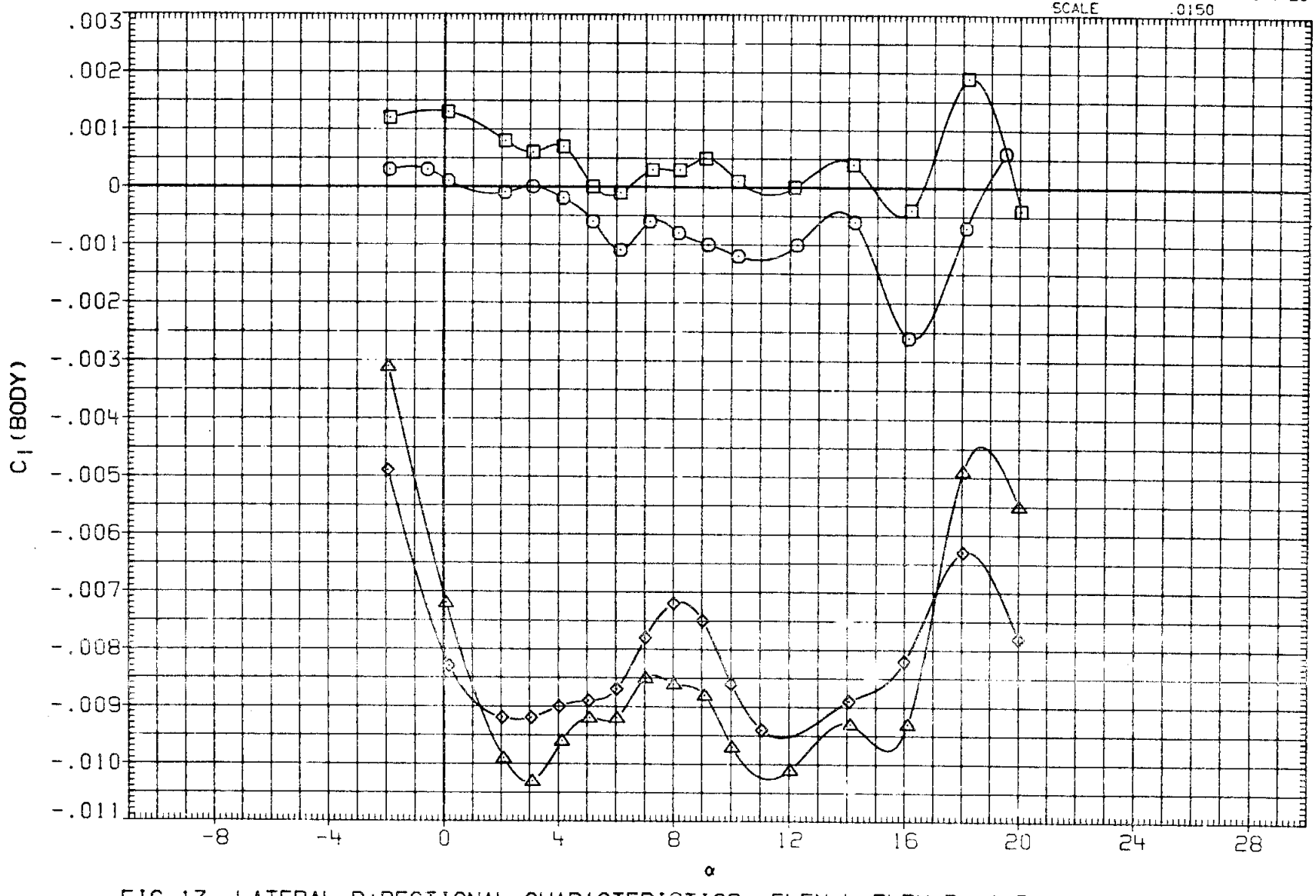

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH - 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

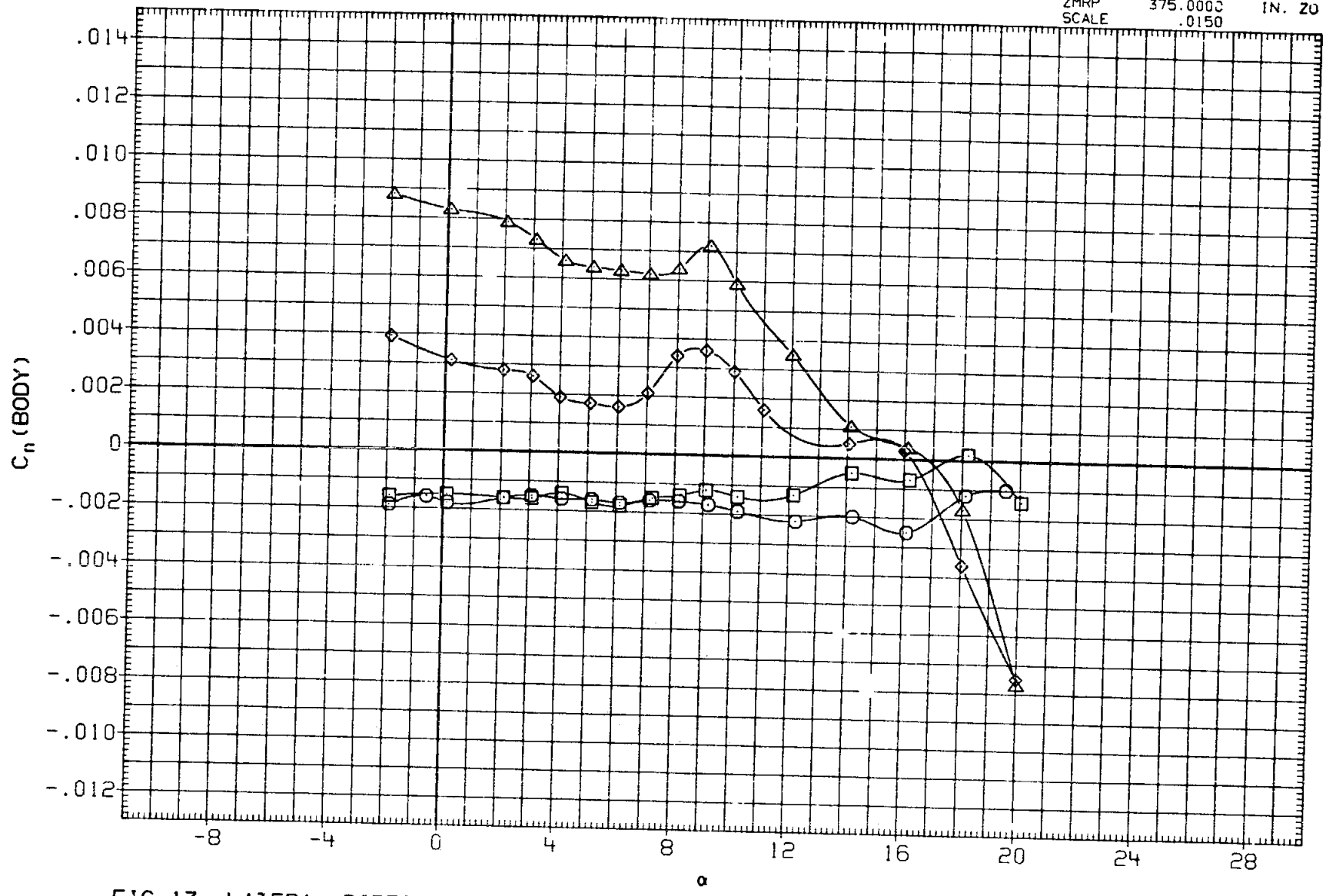

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R2B108	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B109	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B111	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B110	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

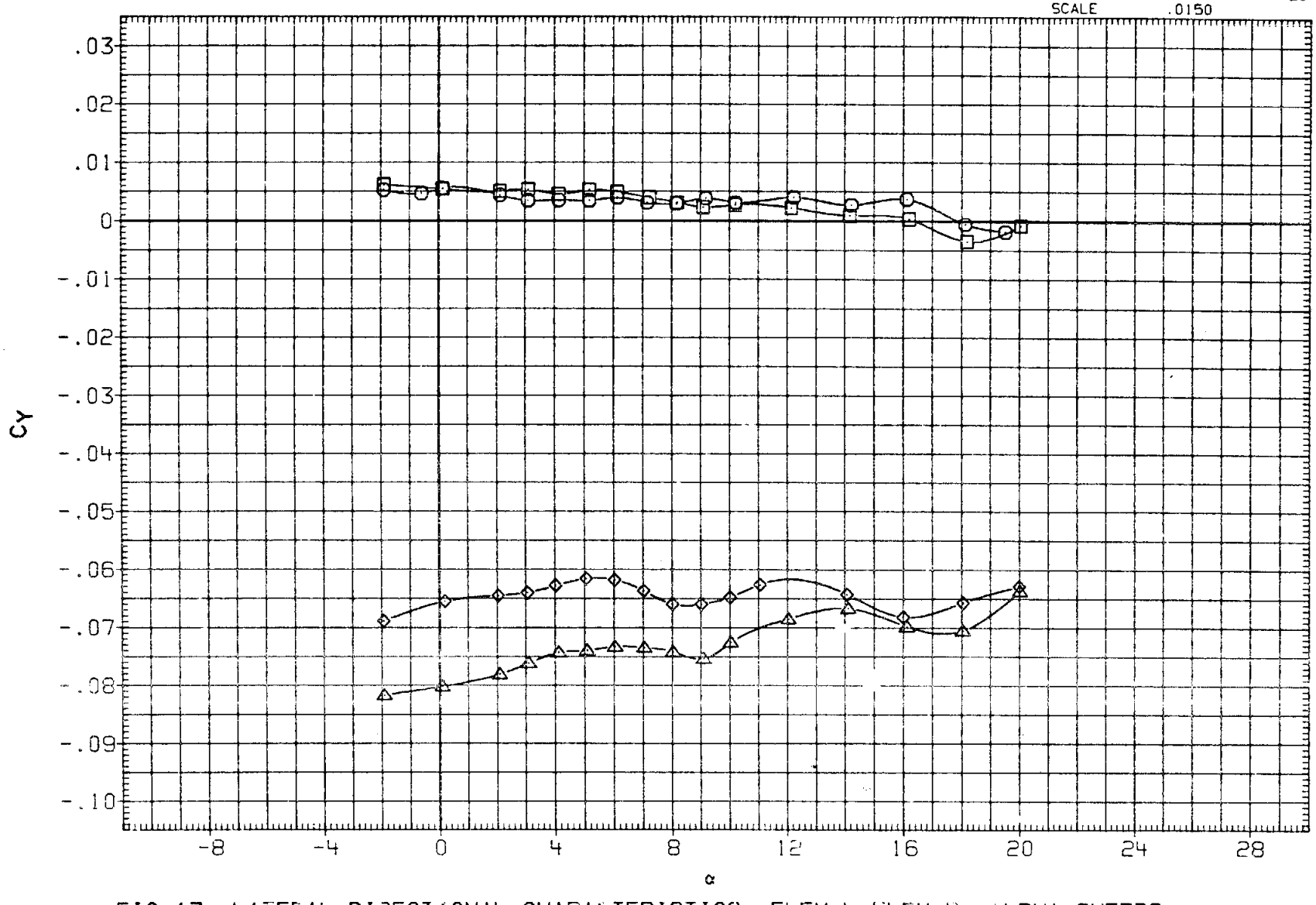

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28103	○	ARC 200-1 II(LA77) OV101	.000	.000	.000	.000	.000
R28104	□	ARC 200-1 II(LA77) OV101	.000	.000	.000	.000	-10.000
R28106	◇	ARC 200-1 II(LA77) OV101	.000	.000	.000	4.000	.000
R28105	△	ARC 200-1 II(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

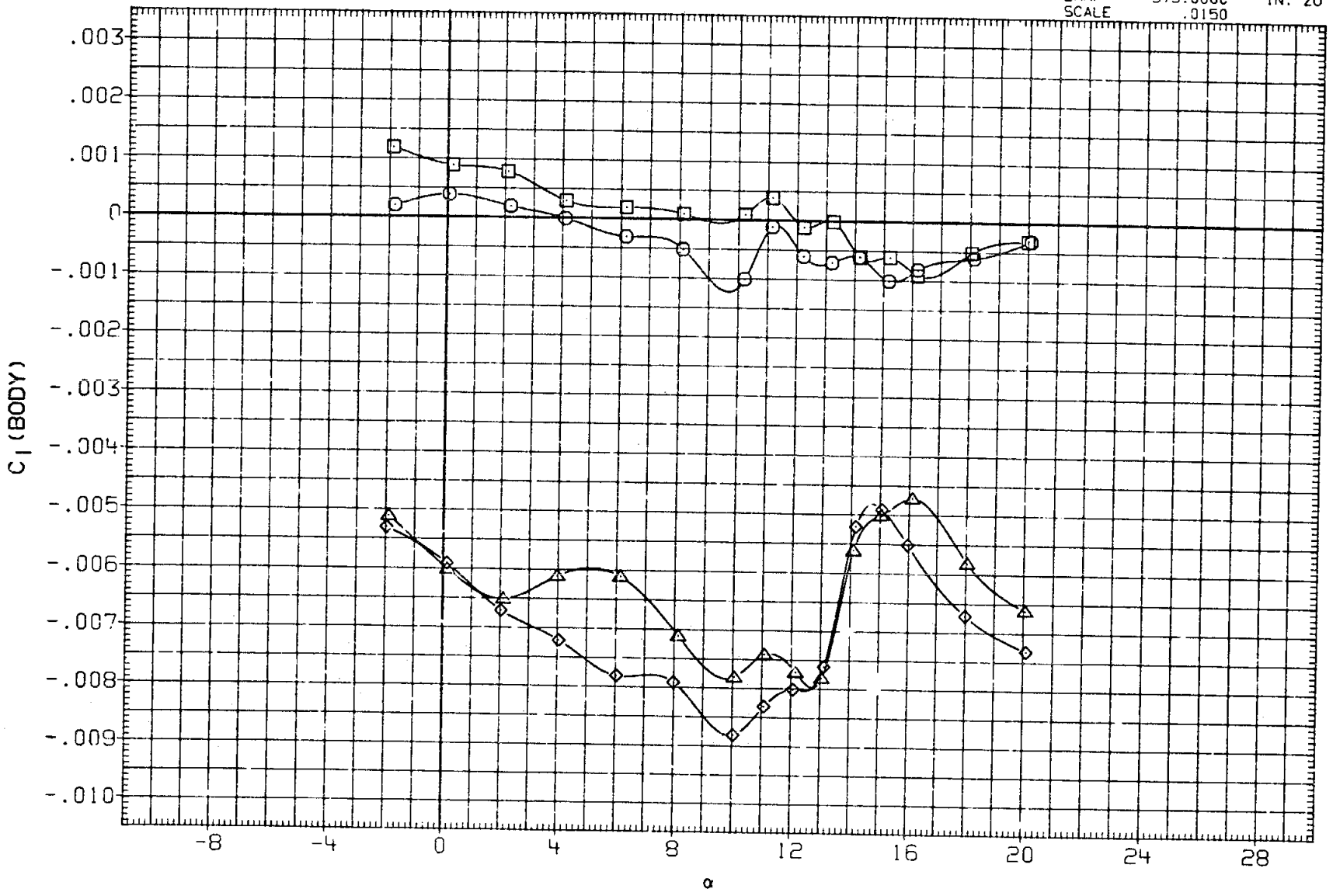

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B104	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B106	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B105	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

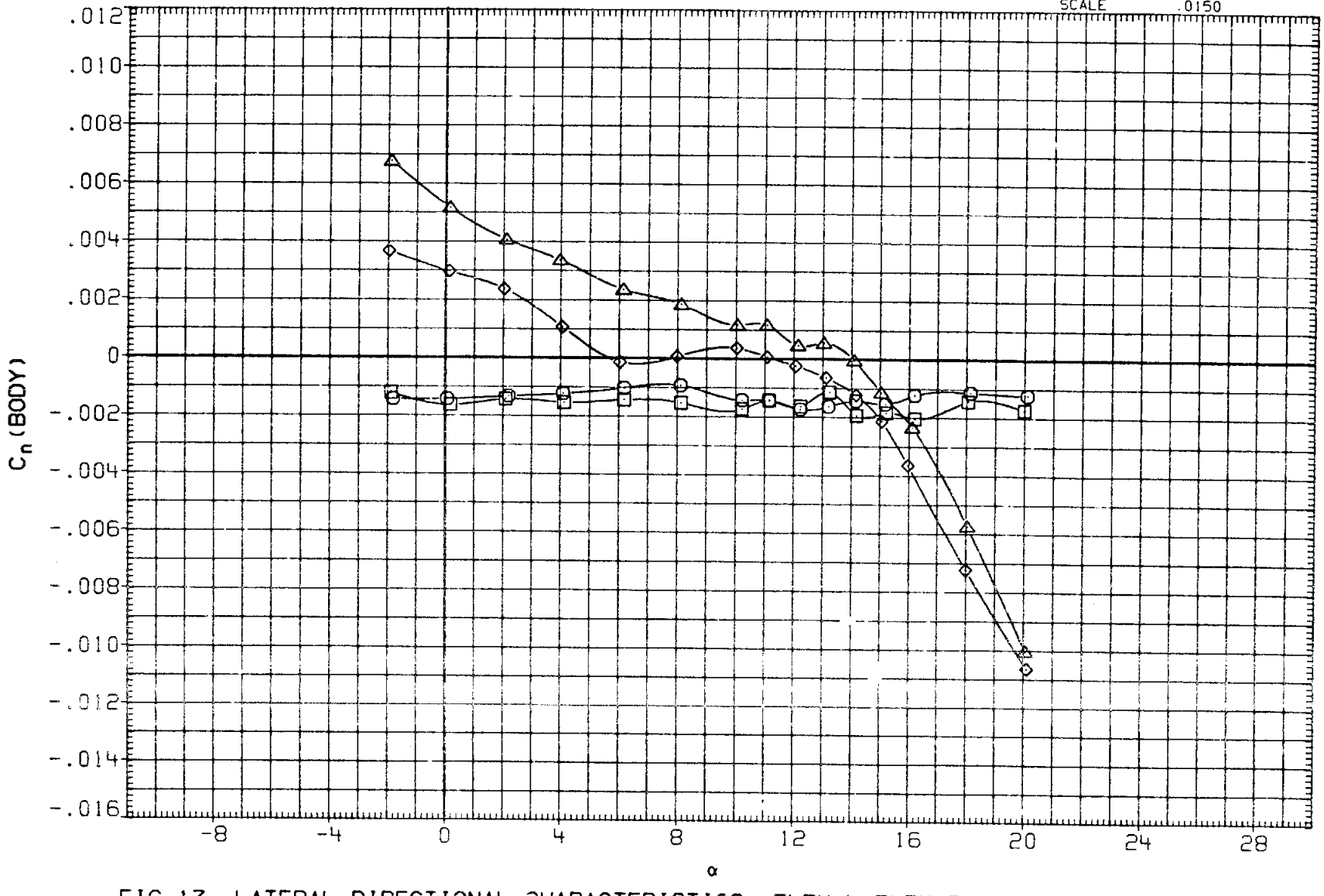

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B103	○	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	.000
R2B104	□	ARC 200-1 11(LA77) OV101	.000	.000	.000	.000	-10.000
R2B106	◇	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	.000
R2B105	△	ARC 200-1 11(LA77) OV101	.000	.000	.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

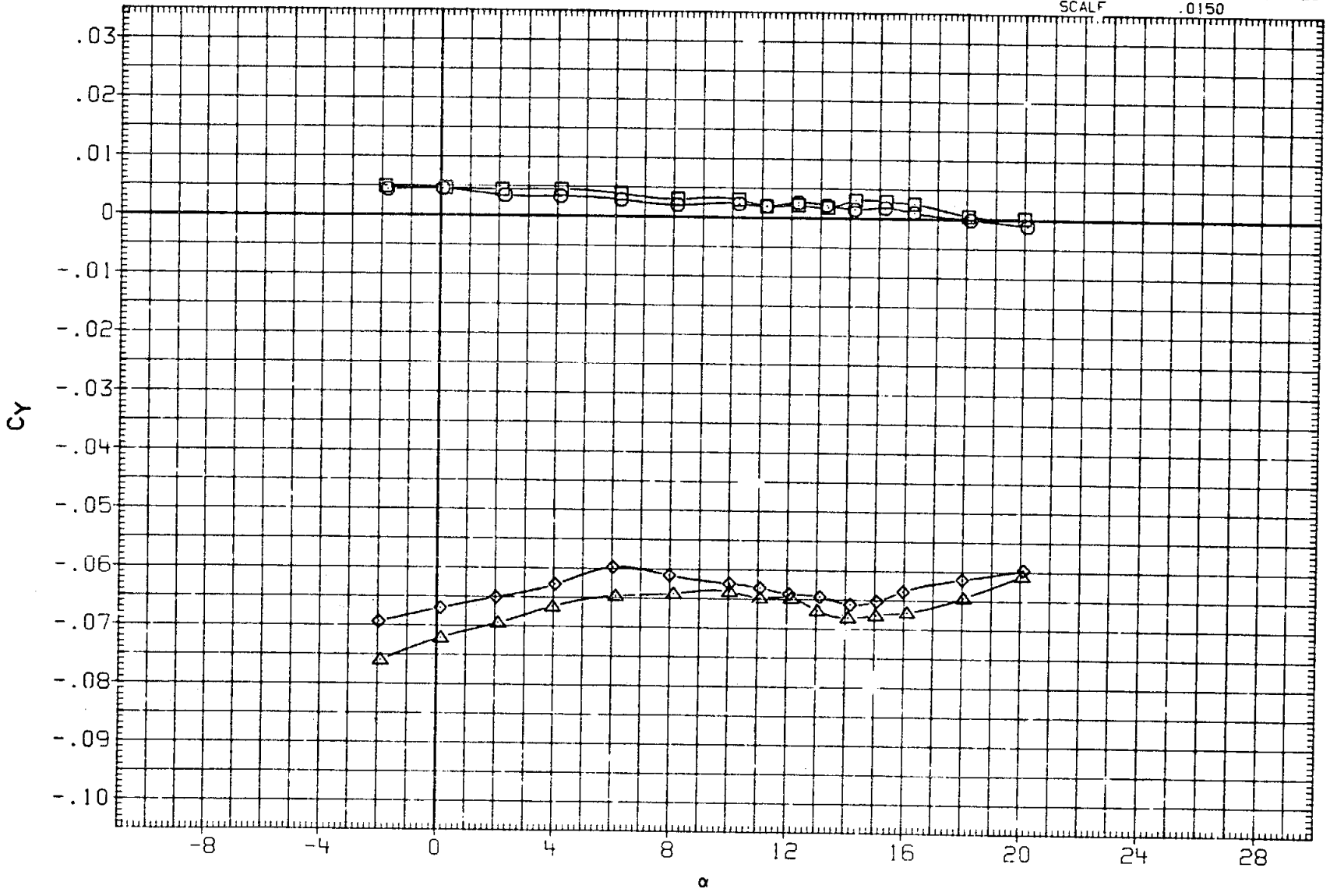

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B168	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B169	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

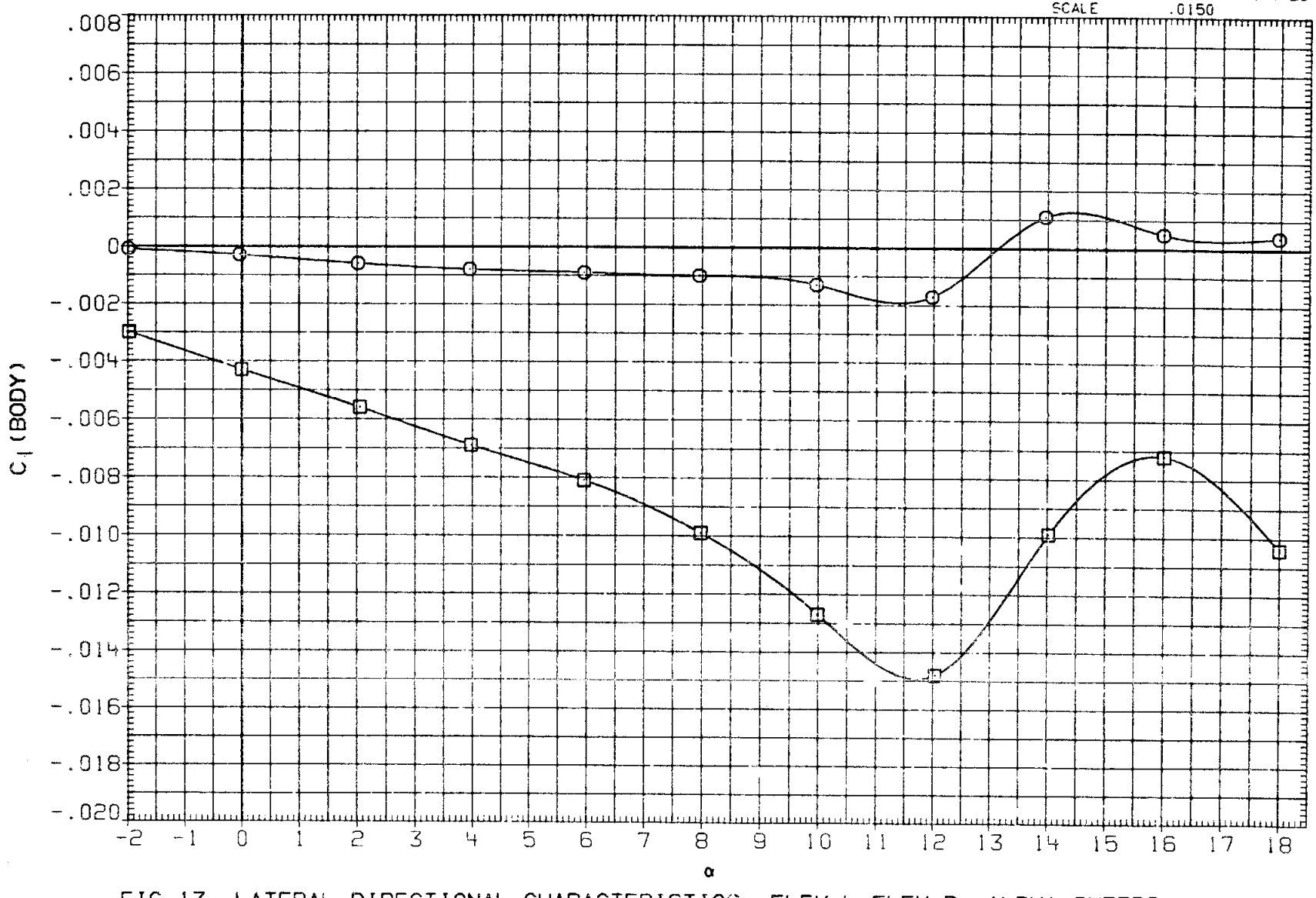

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2B168	○	ARC 200-1 11(LA77) OV101
R2B169	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	15.000	.000	.000
.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

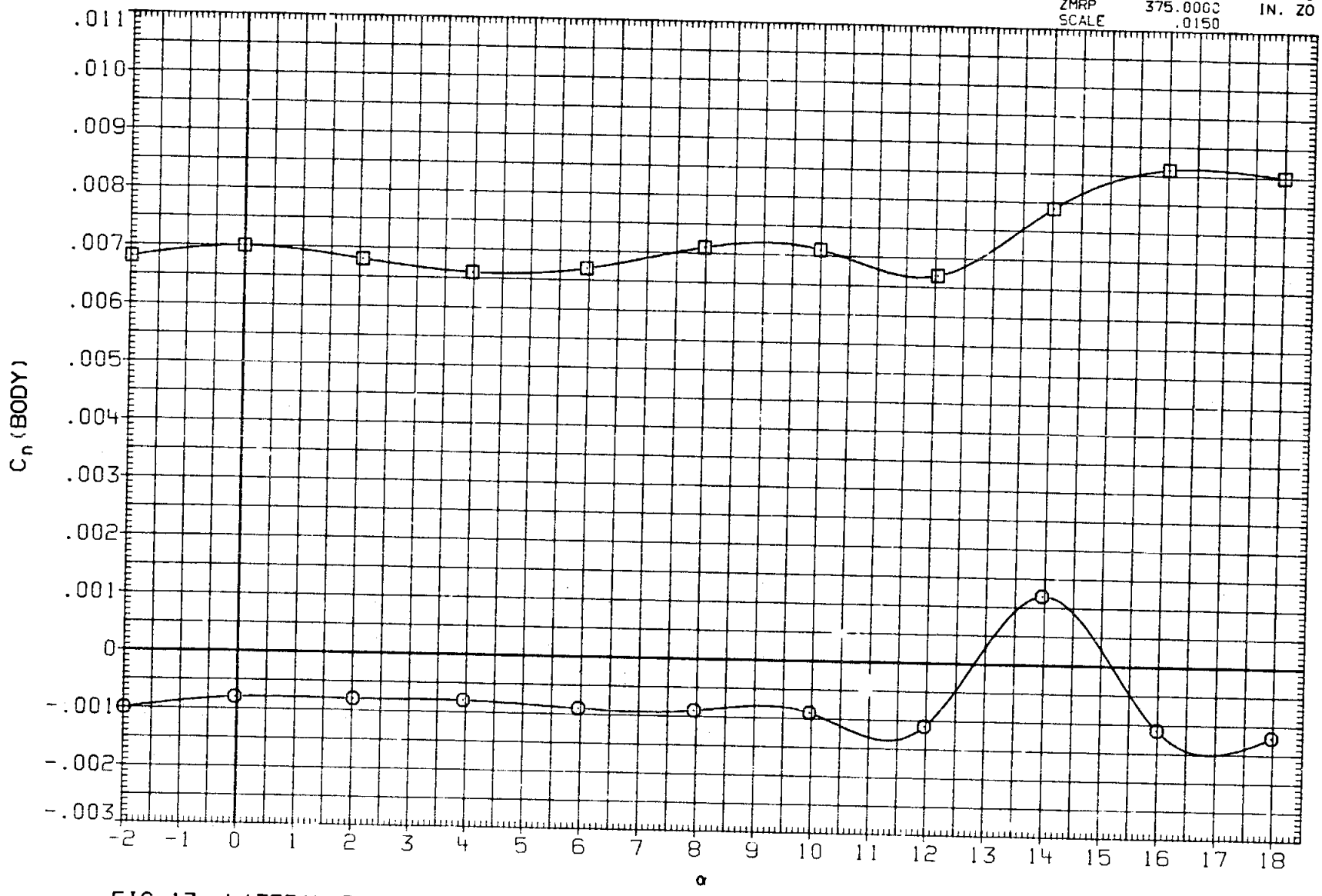

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R2B168	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B169	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

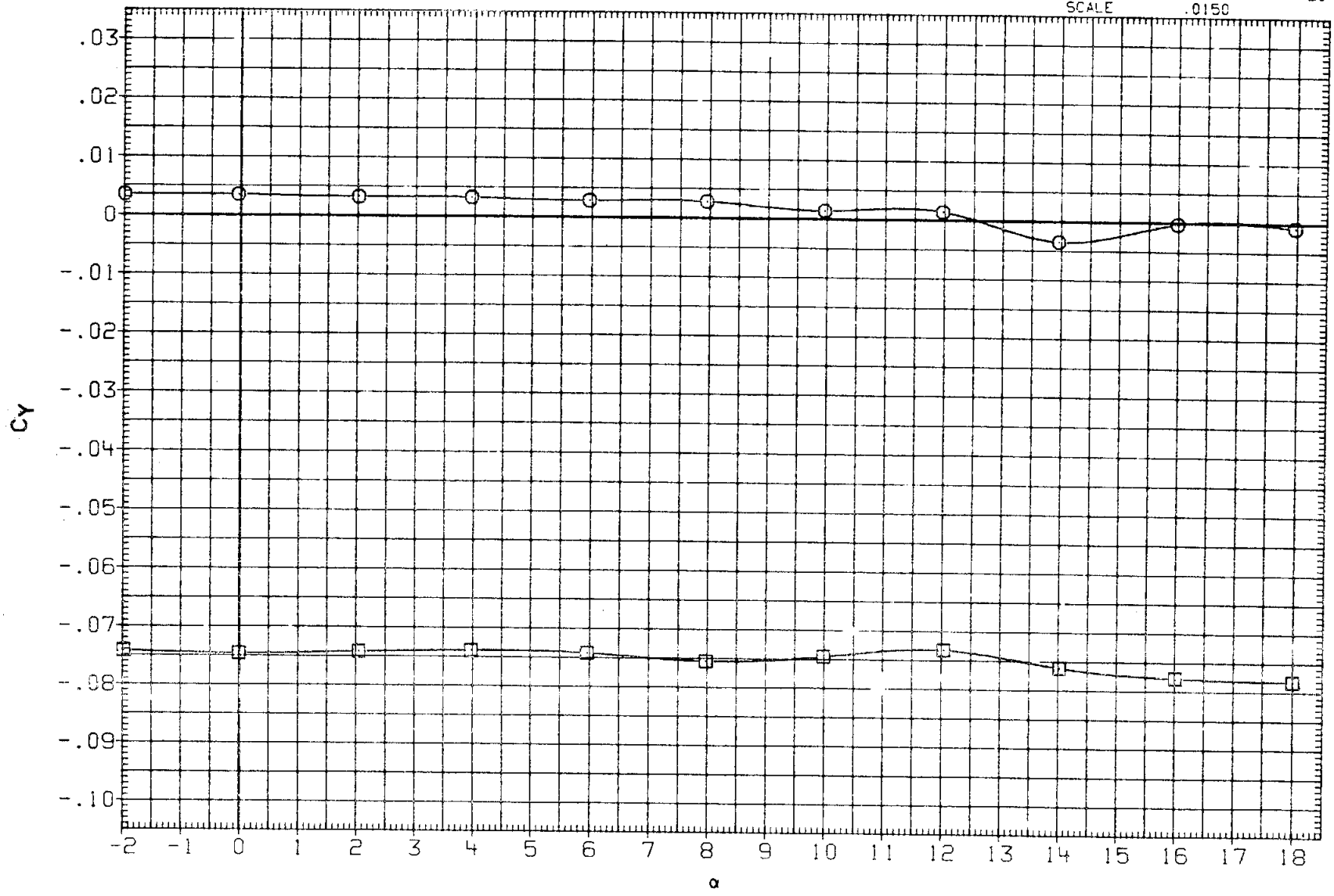

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

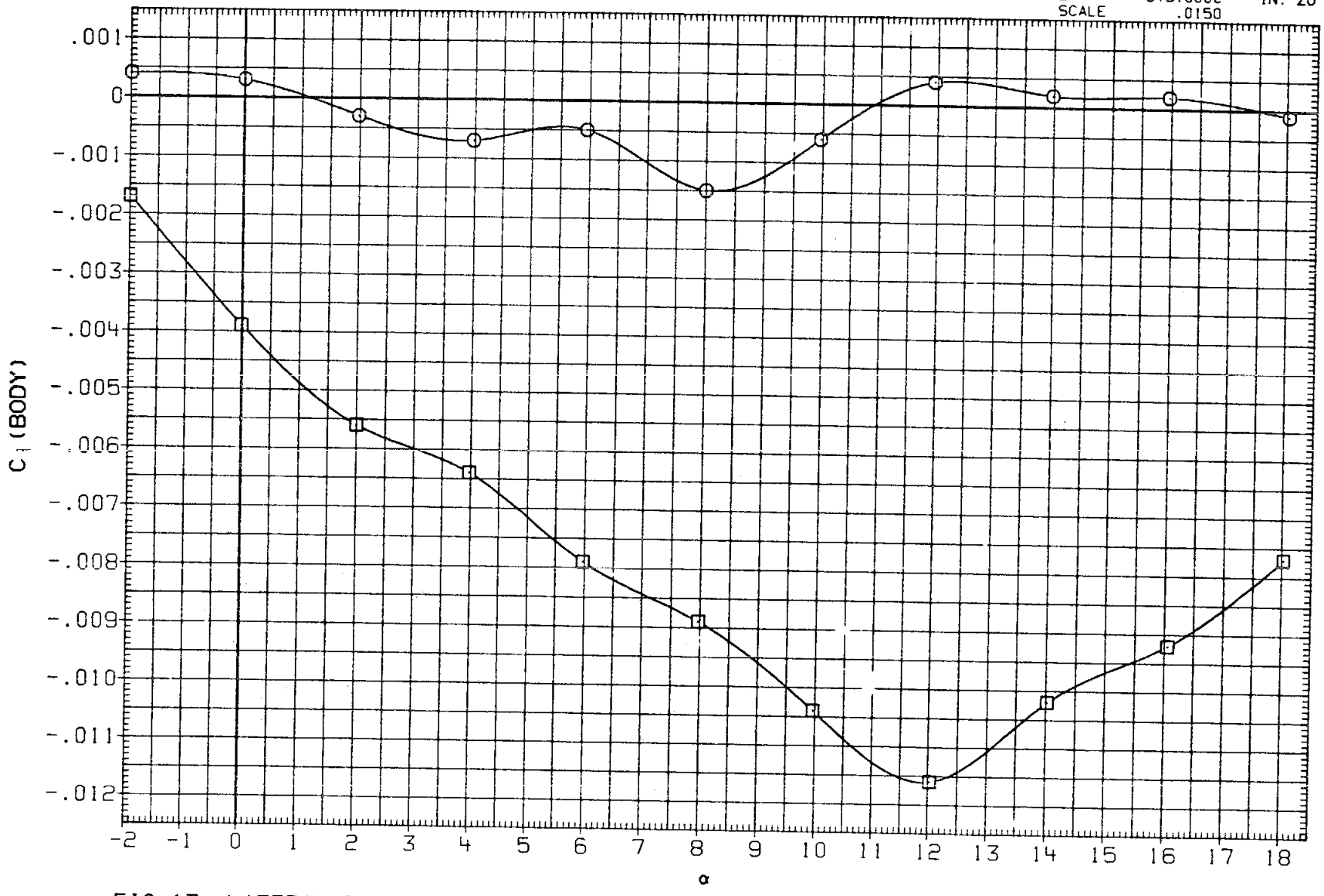

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2630.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

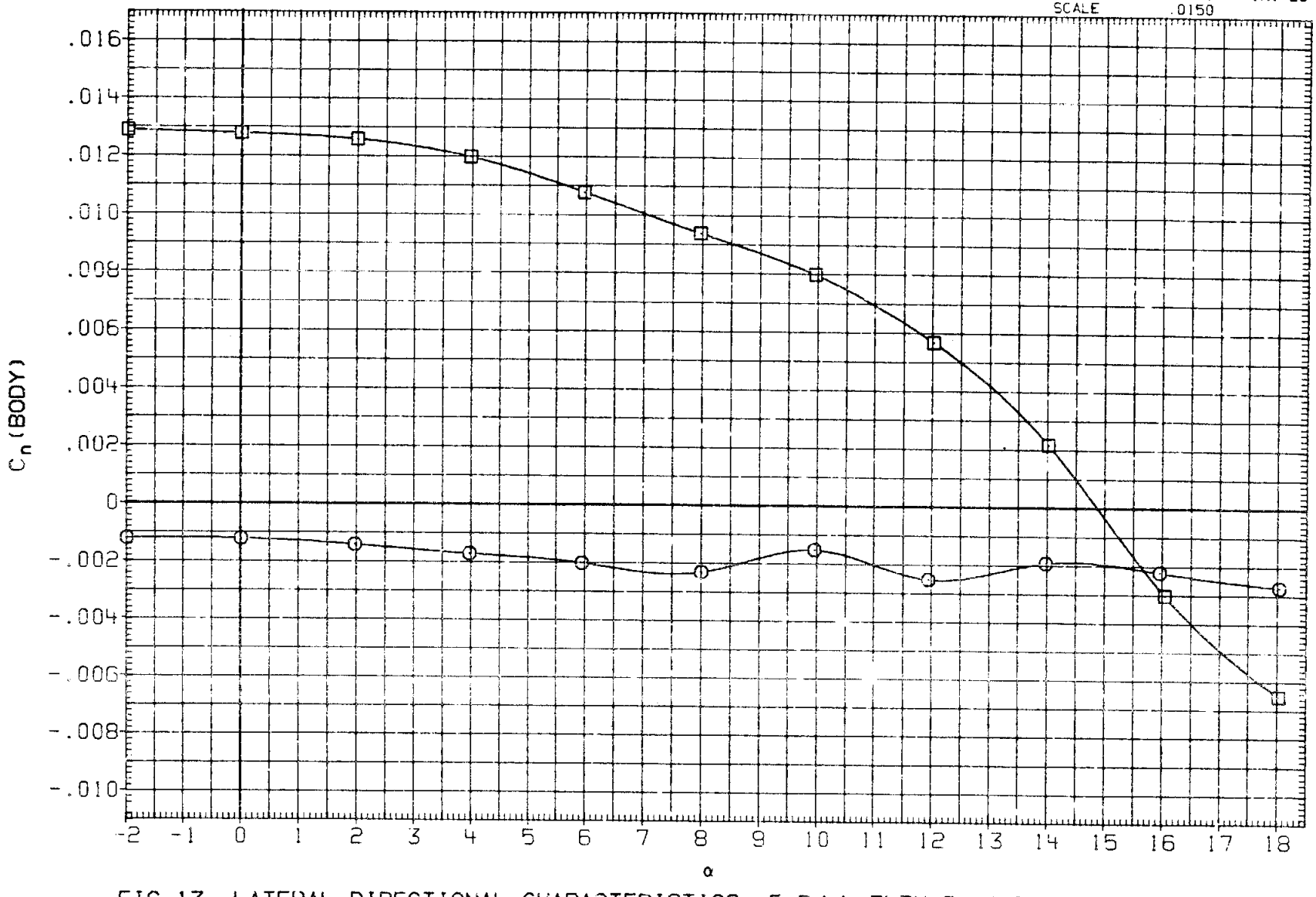

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2B171	○	ARC 200-1 11(LA77) OV101
R2B172	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	15.000	.000	.000
.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

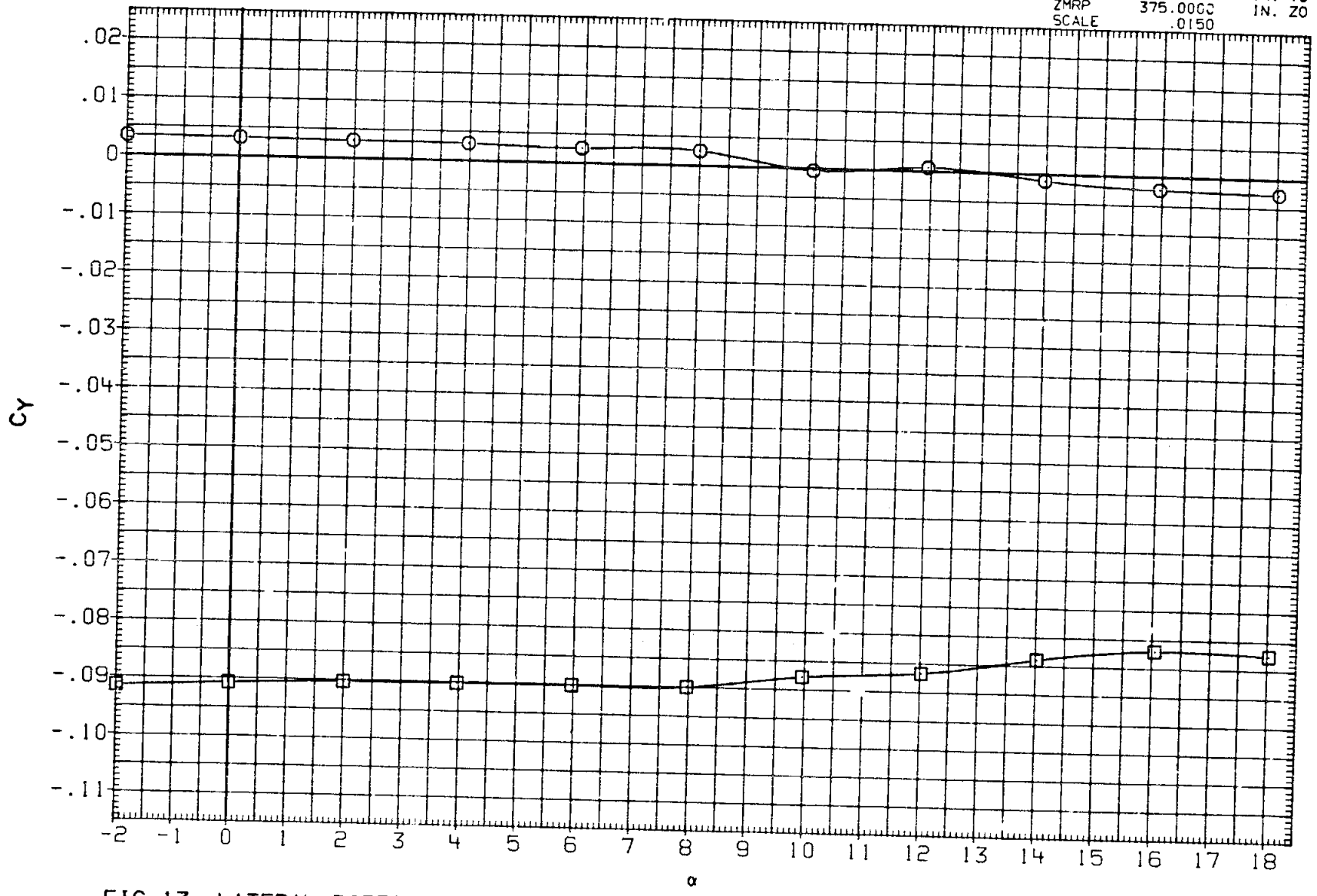

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

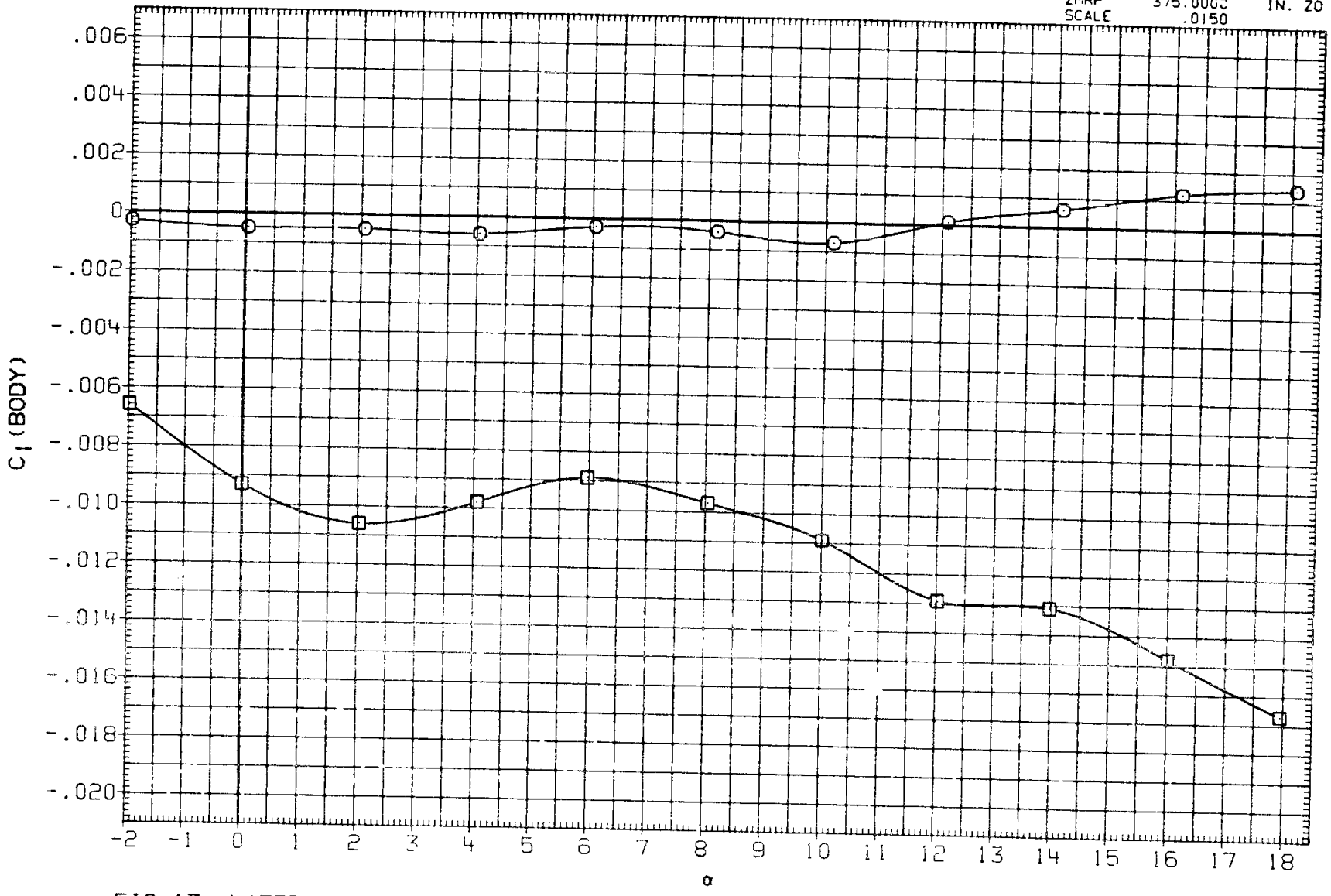

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B171	○	ARC 200-1 11(LA77) OV101
R2B172	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	15.000	.000	.000
.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

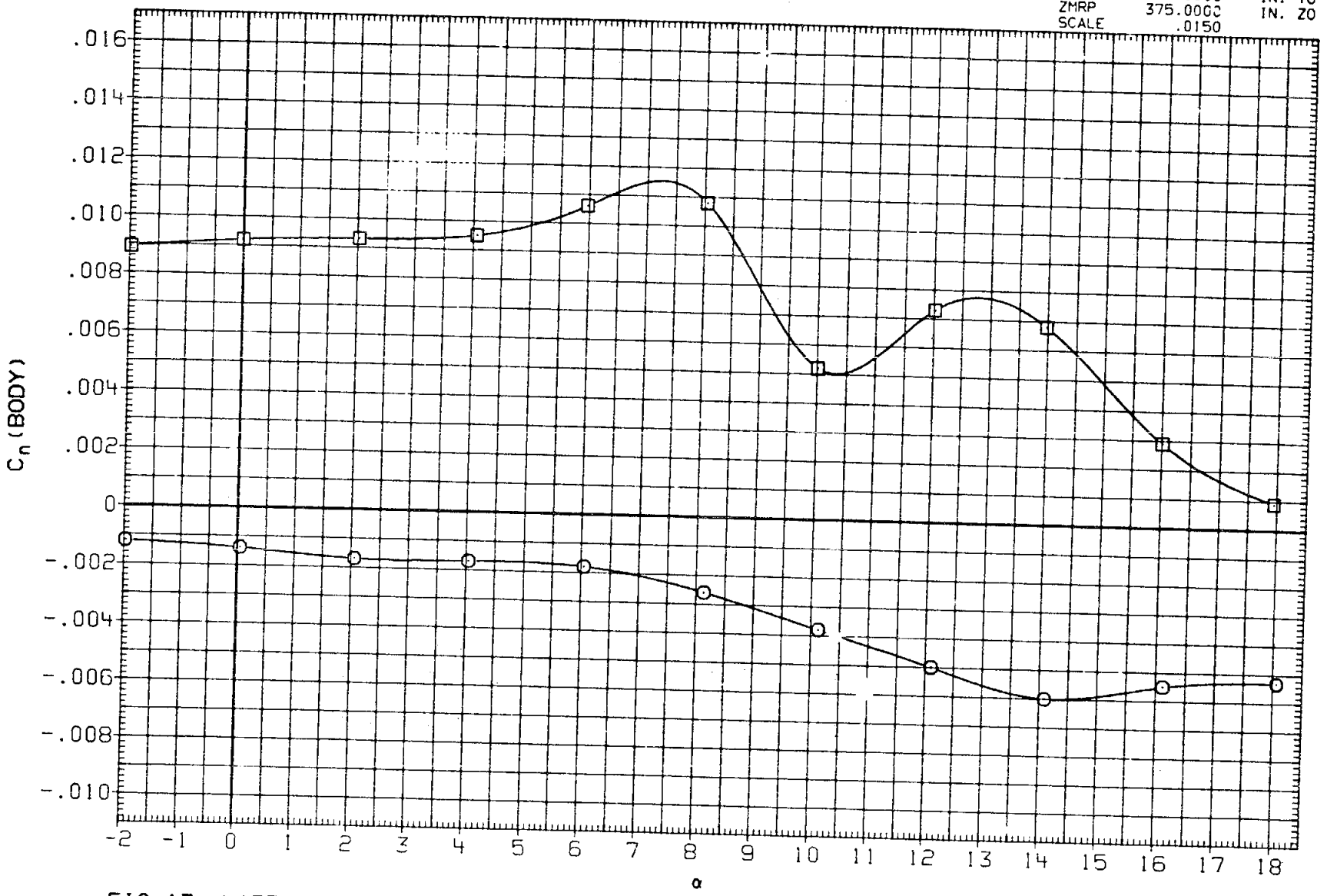

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

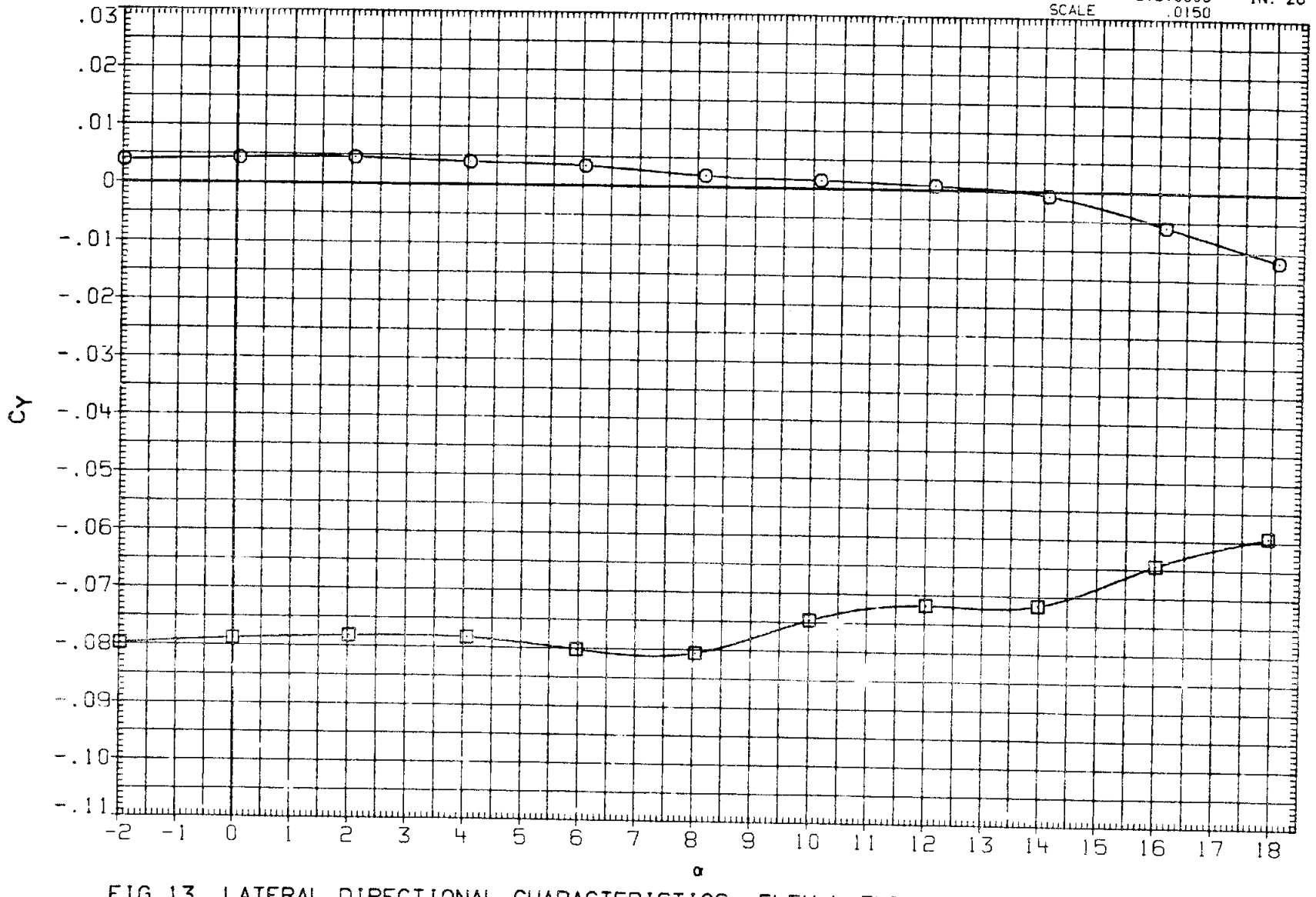

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B171	○	ARC 200-1 11(LA77) OV101
R2B172	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	15.000	.000	.000
.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

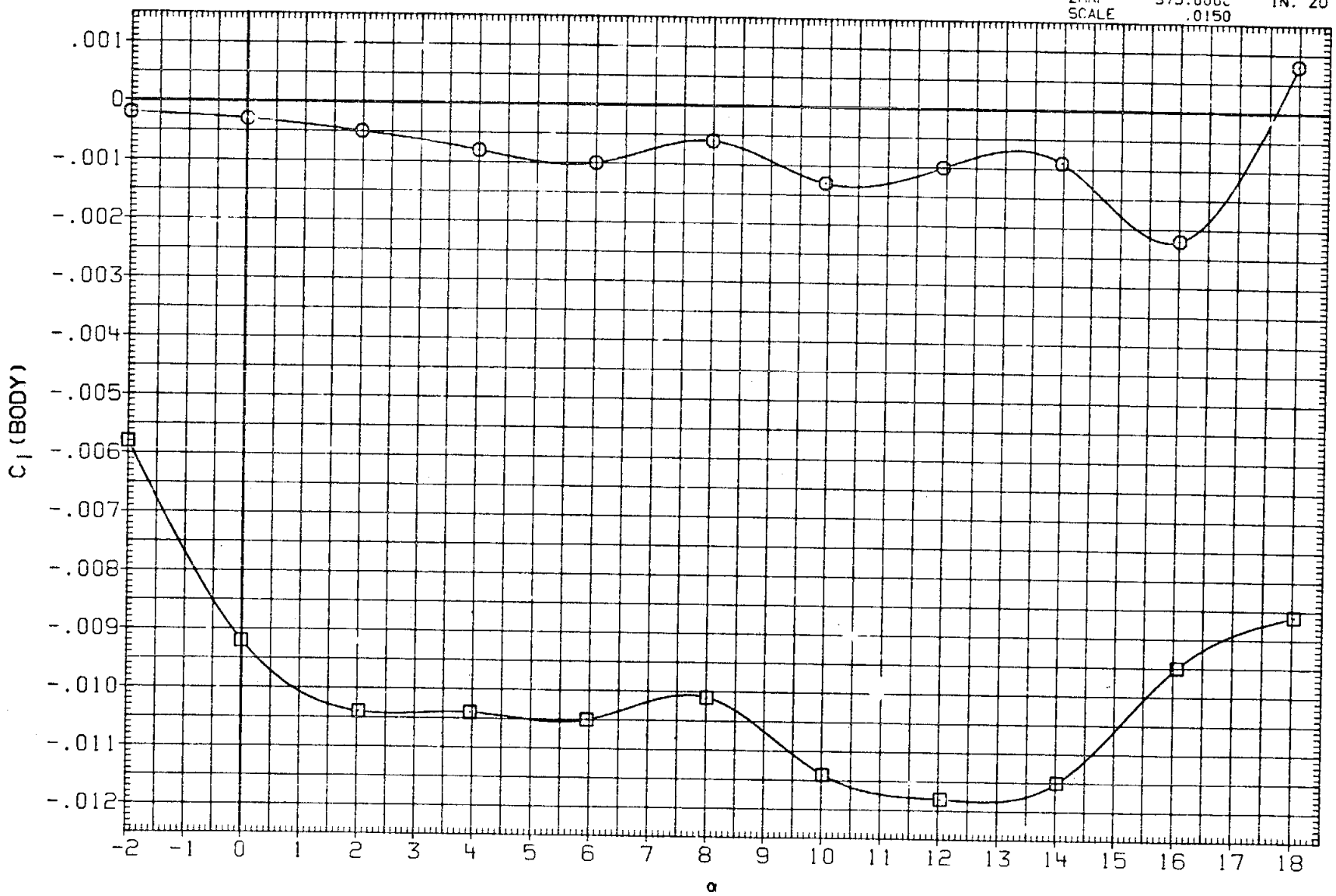

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

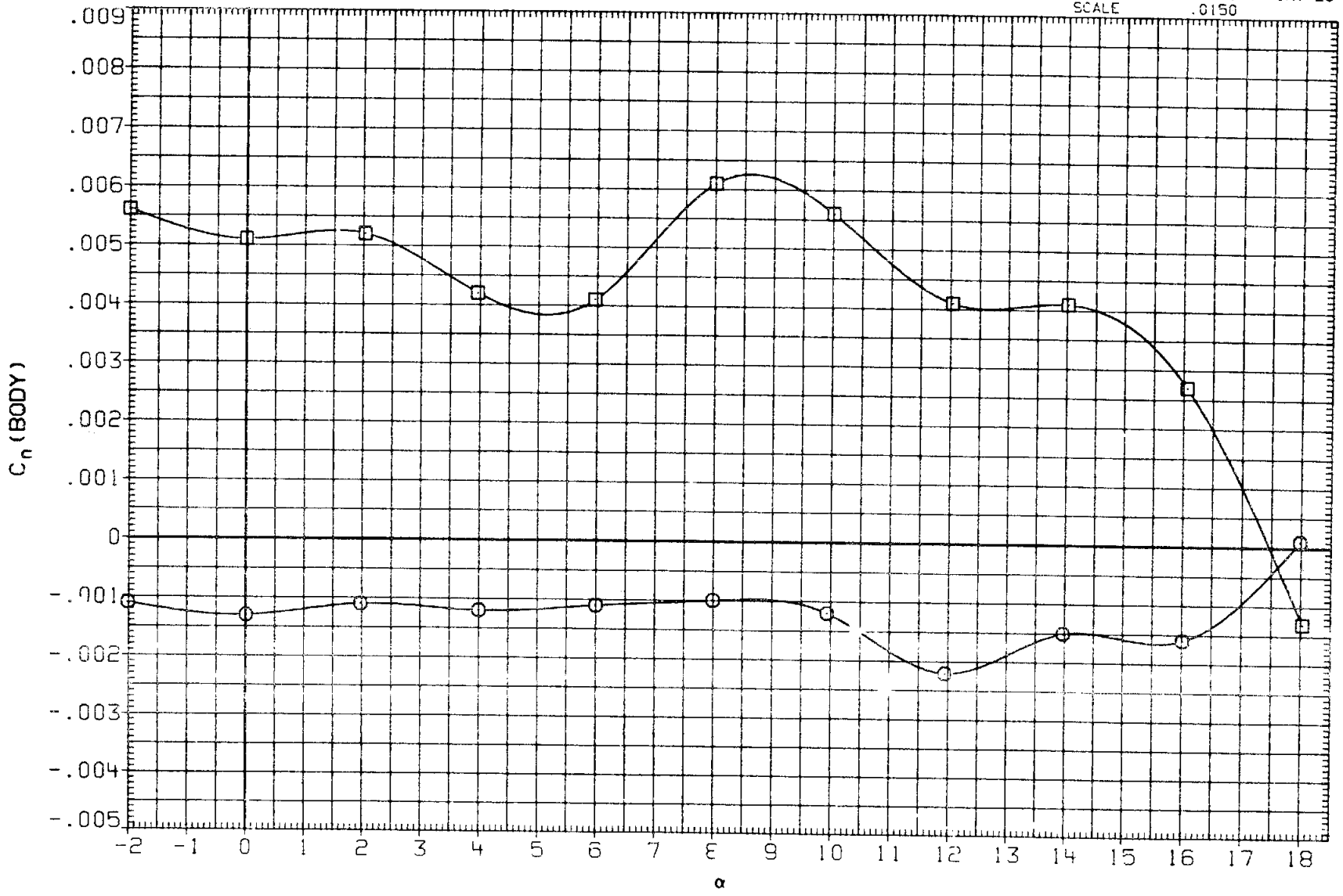

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B171	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B172	□	APC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

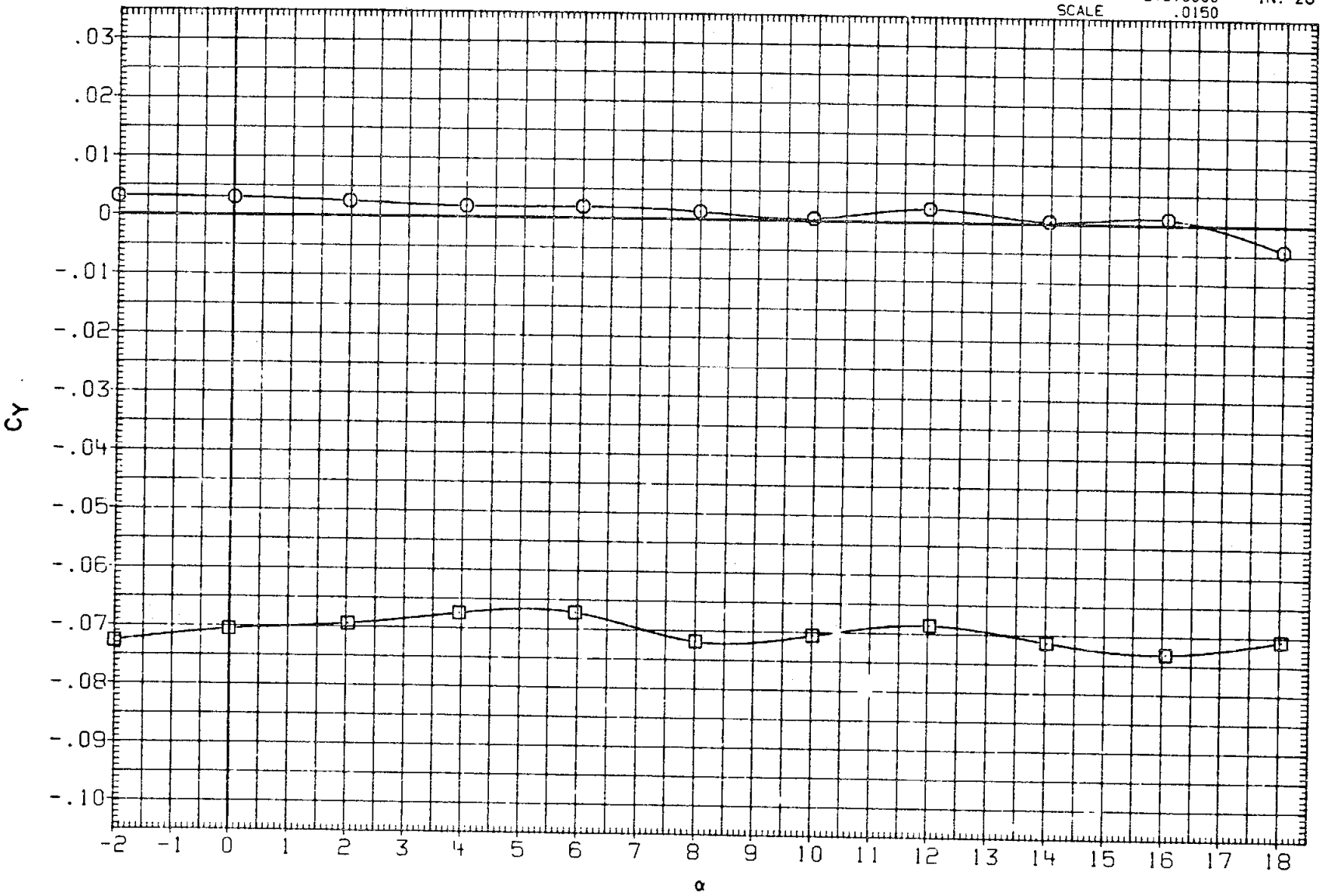

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B168	○	ARC 200-1 11(LA77) OV101
R2B169	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	15.000	.000	.000
.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

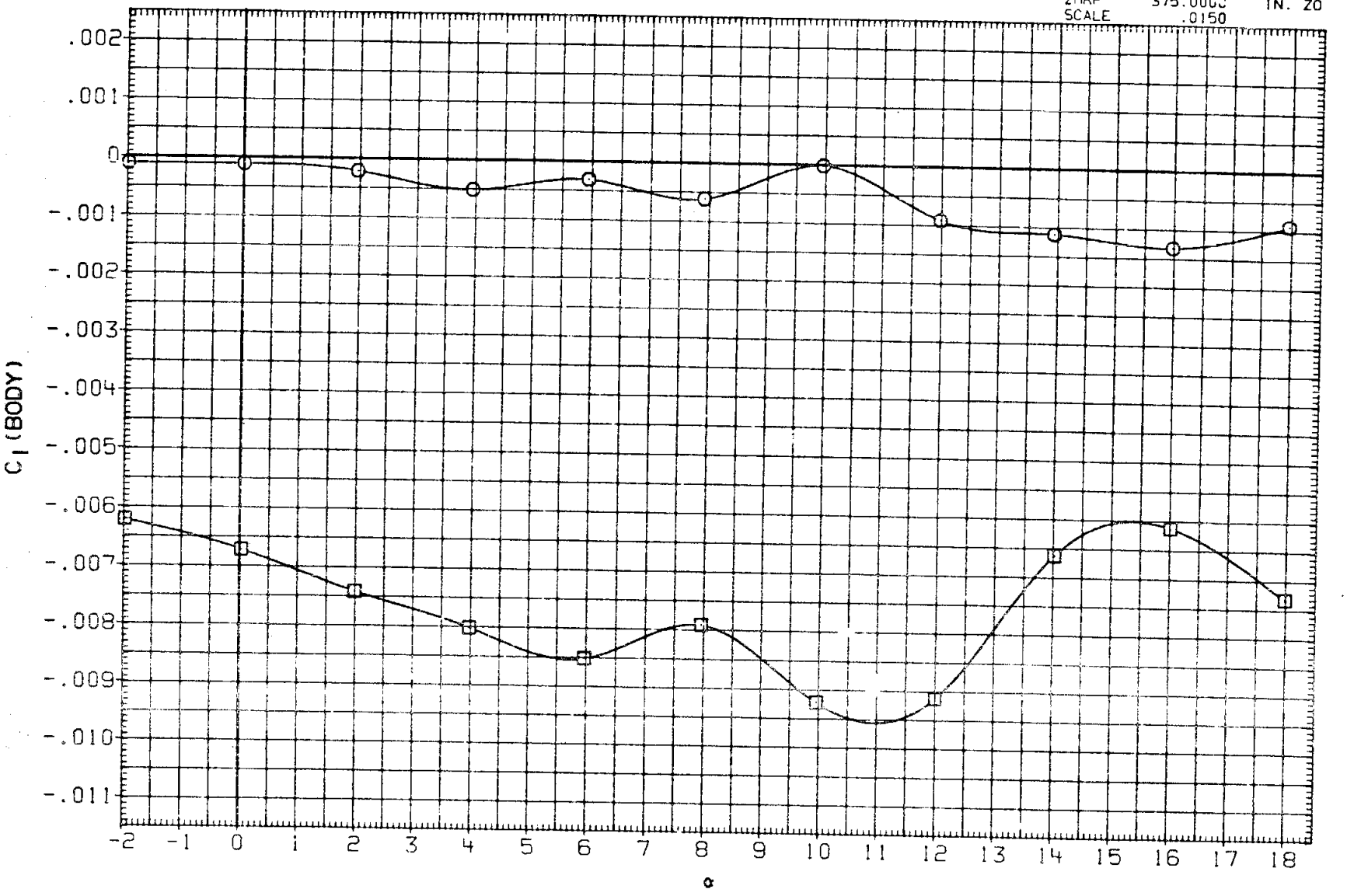

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B168	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B169	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

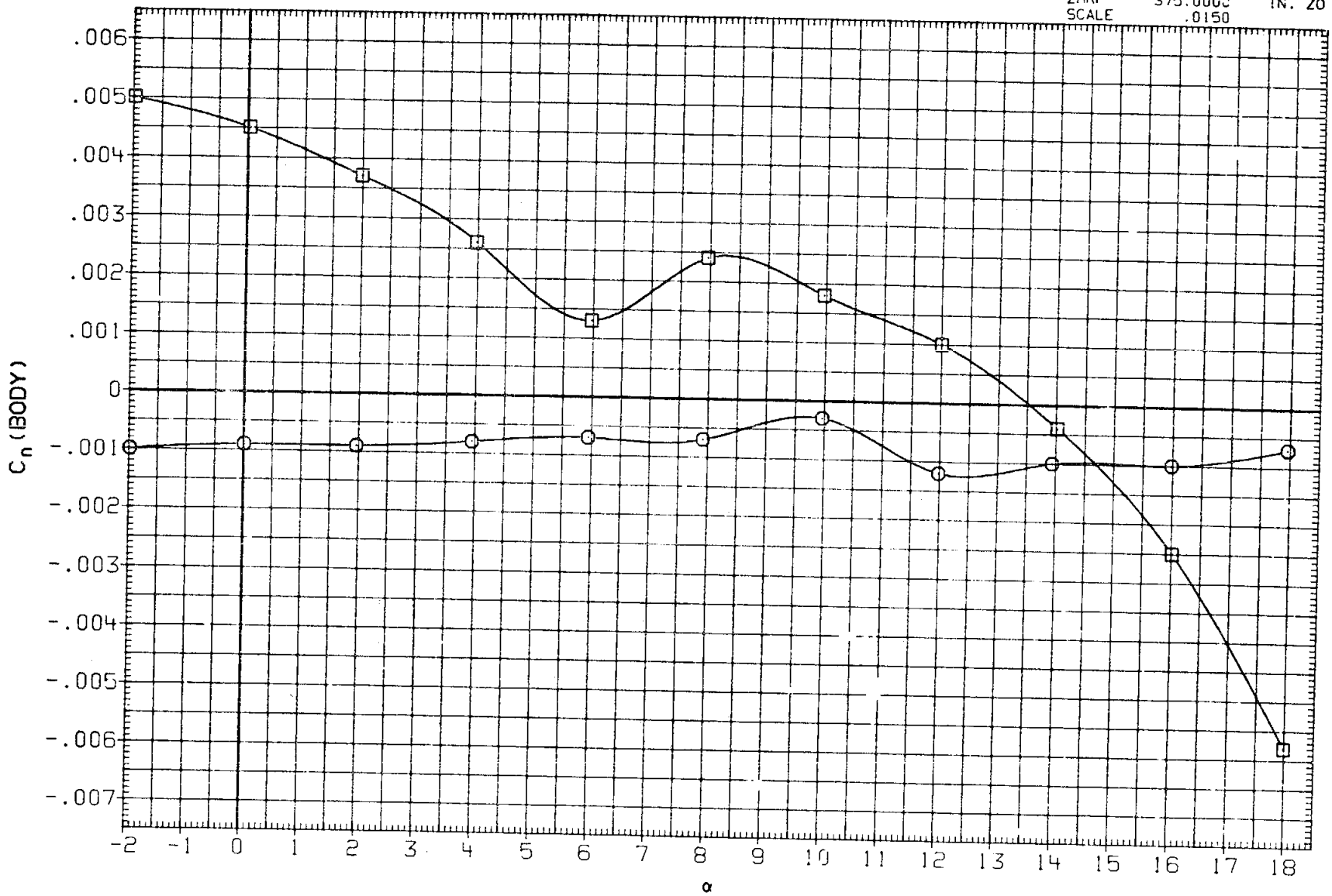

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B168	○	ARC 200-1 11(LA77) OV101	.000	.000	15.000	.000	.000
R2B169	□	ARC 200-1 11(LA77) OV101	.000	.000	15.000	4.000	.000

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

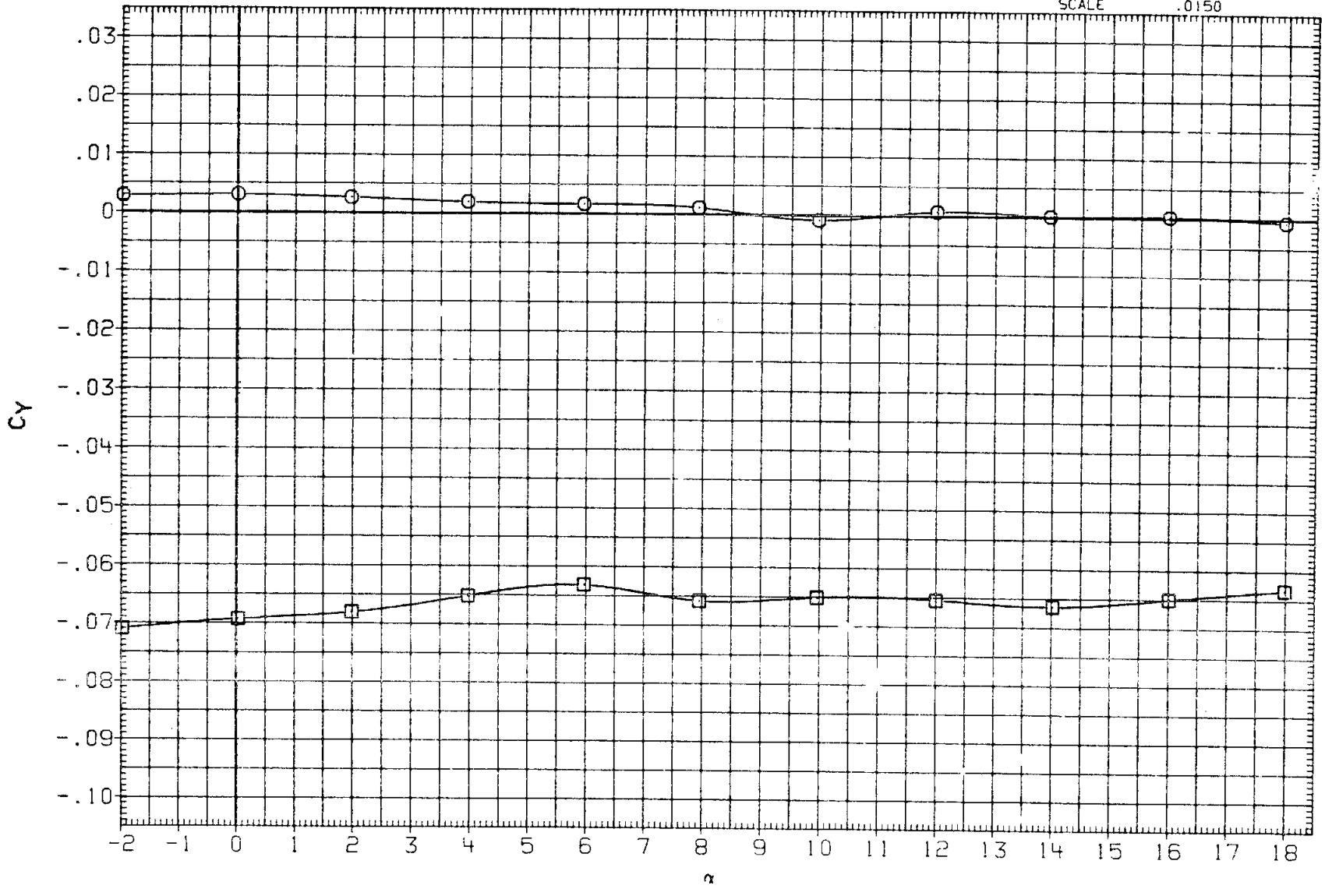

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B024	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B023	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

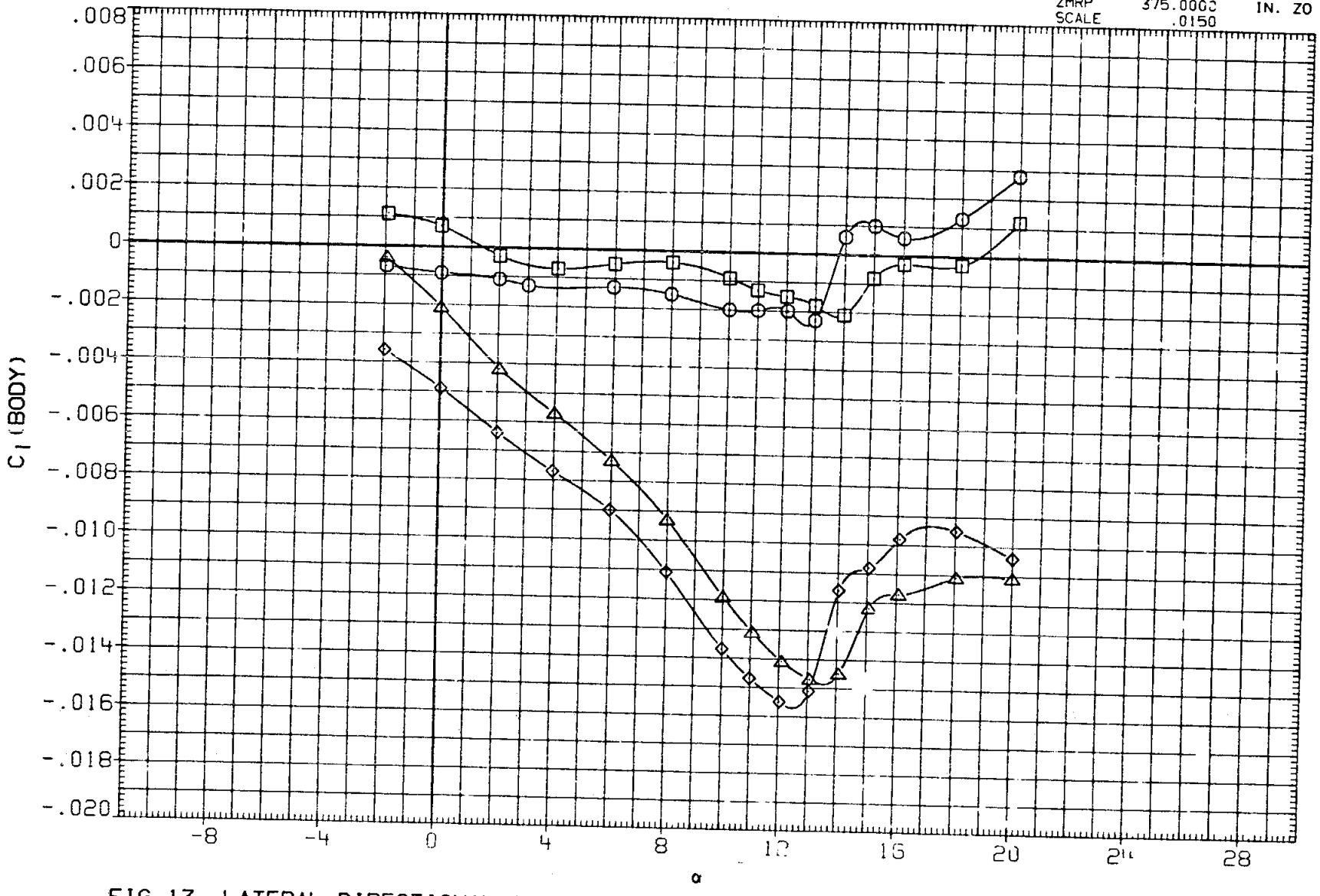

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B024	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B023	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.[illegible]0	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

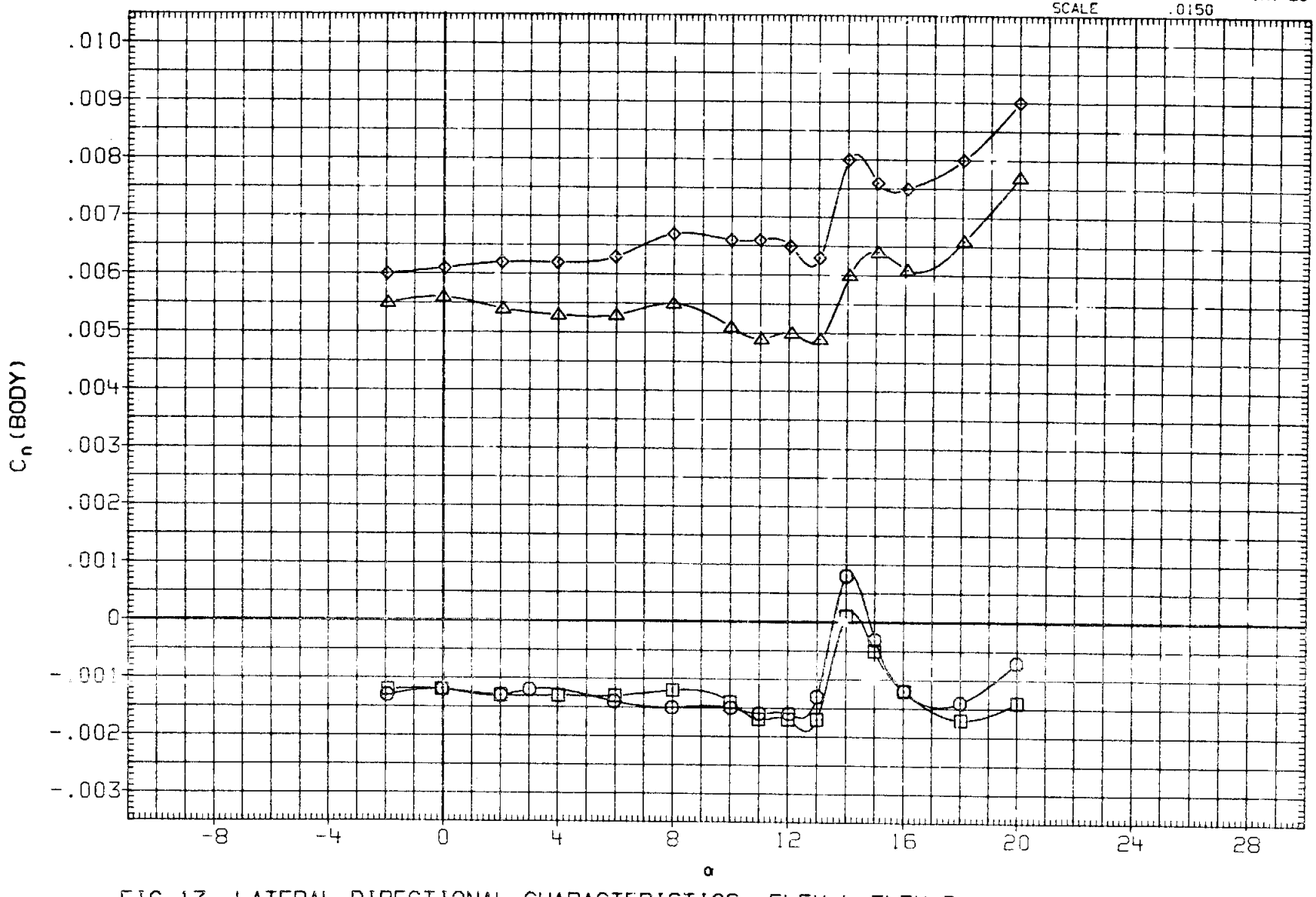

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B018	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B020	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B024	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B023	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

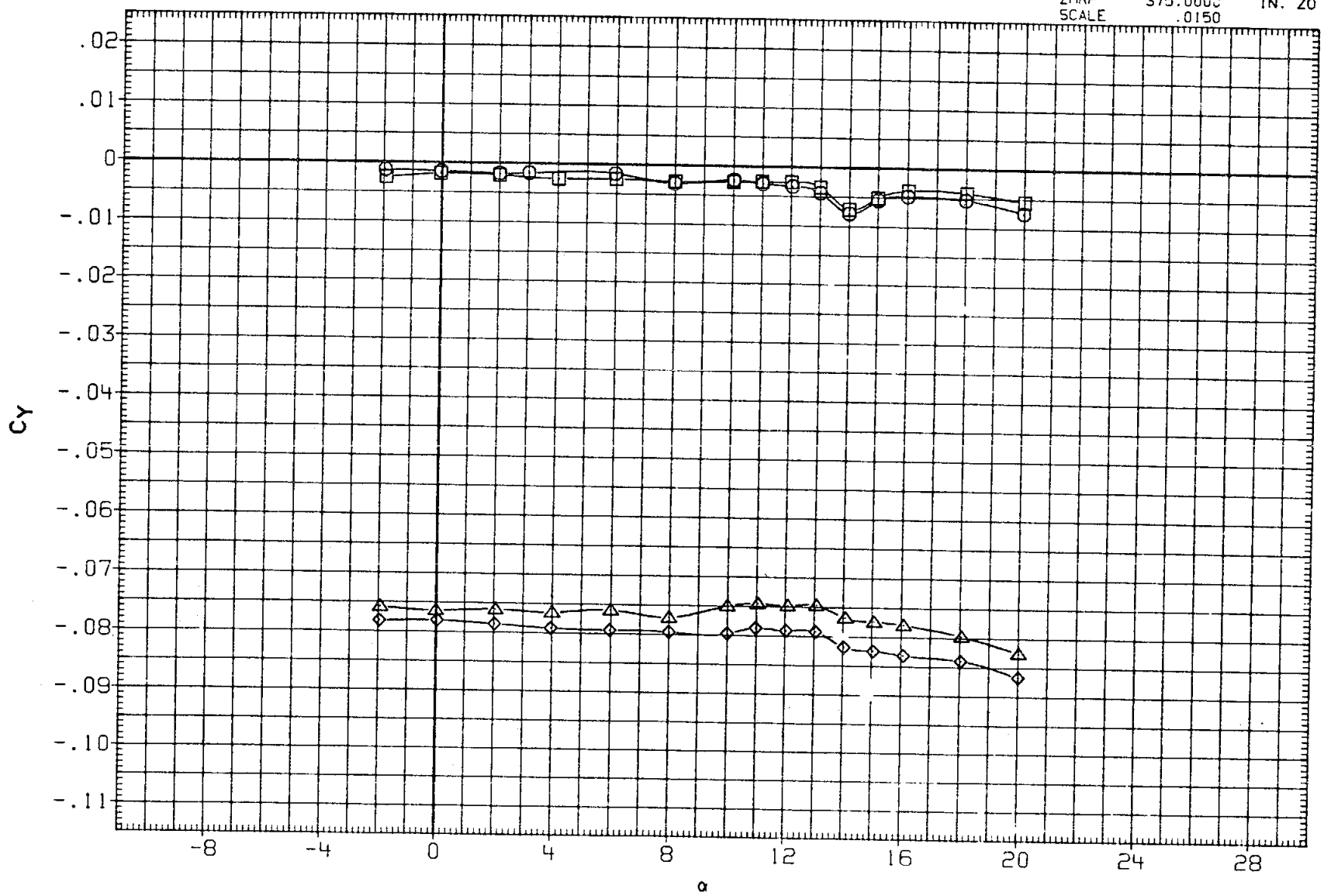

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

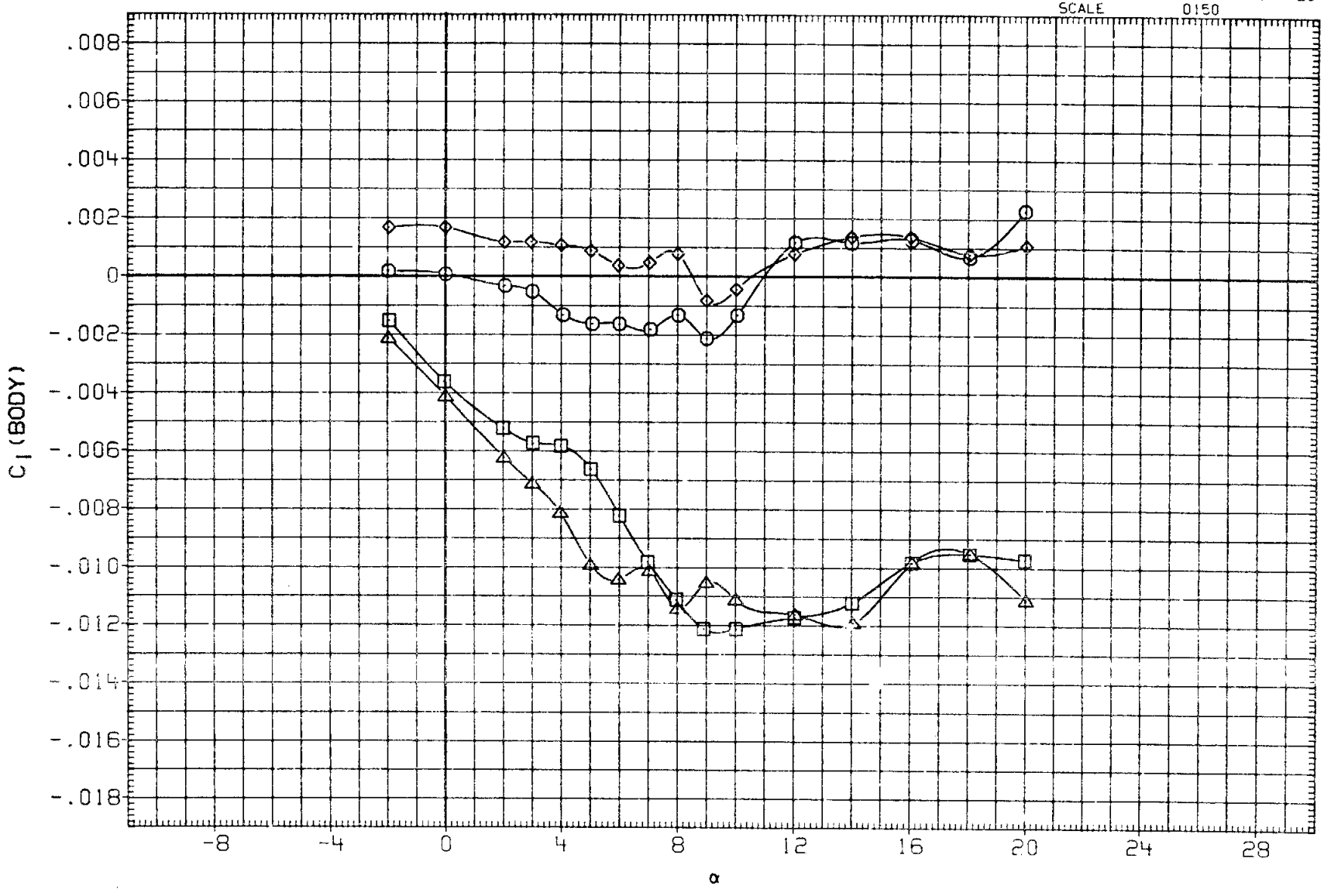

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

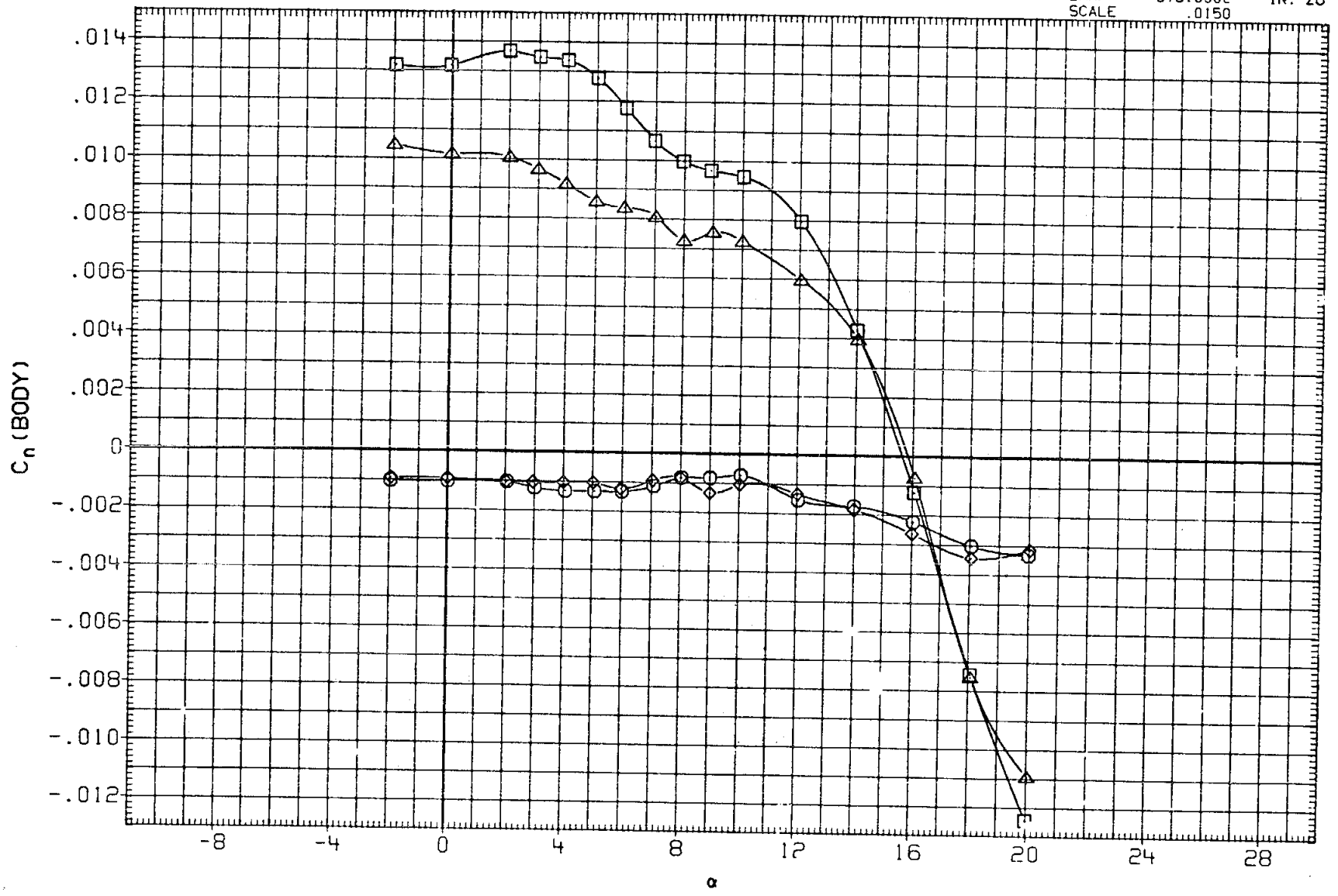

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

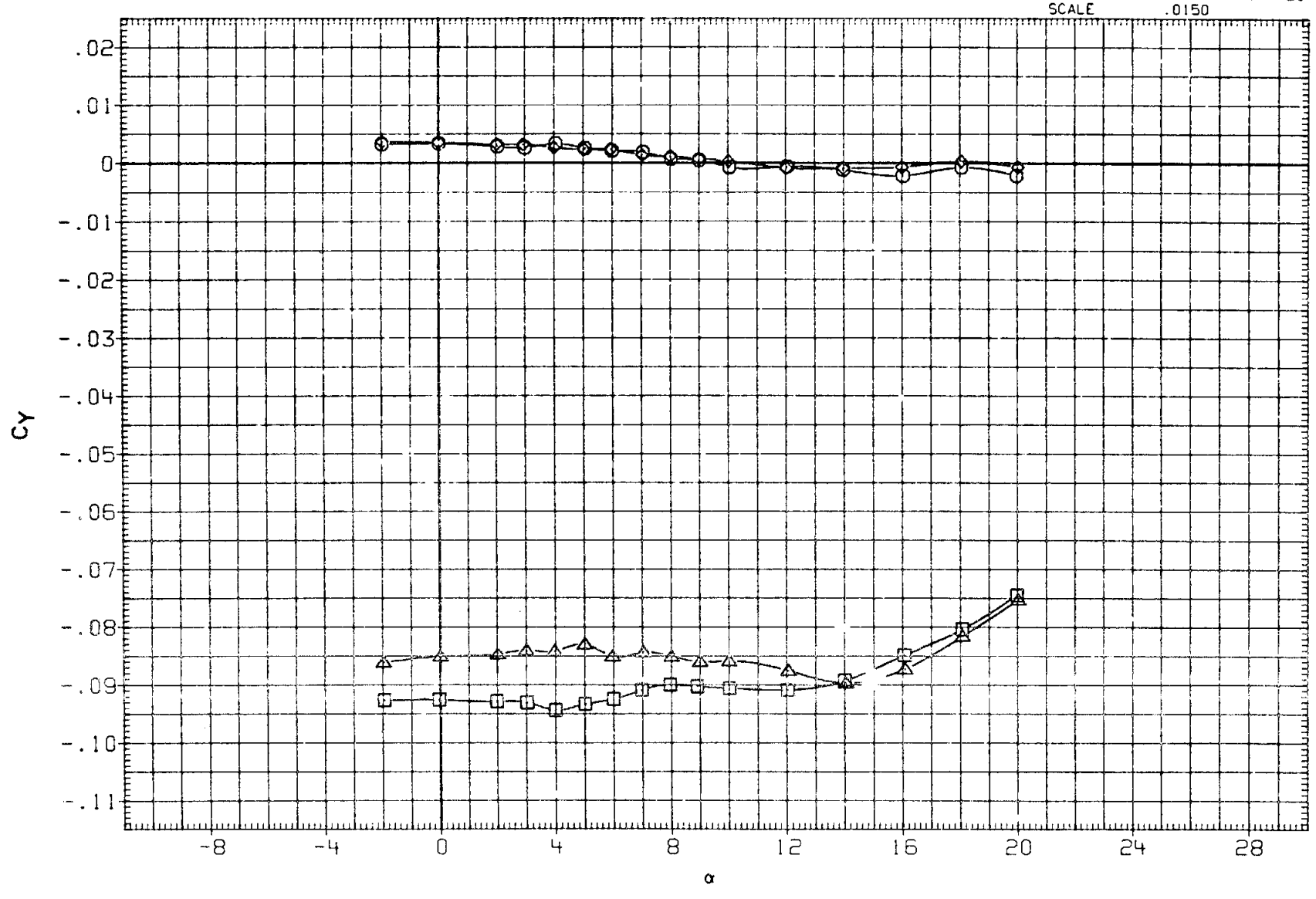

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

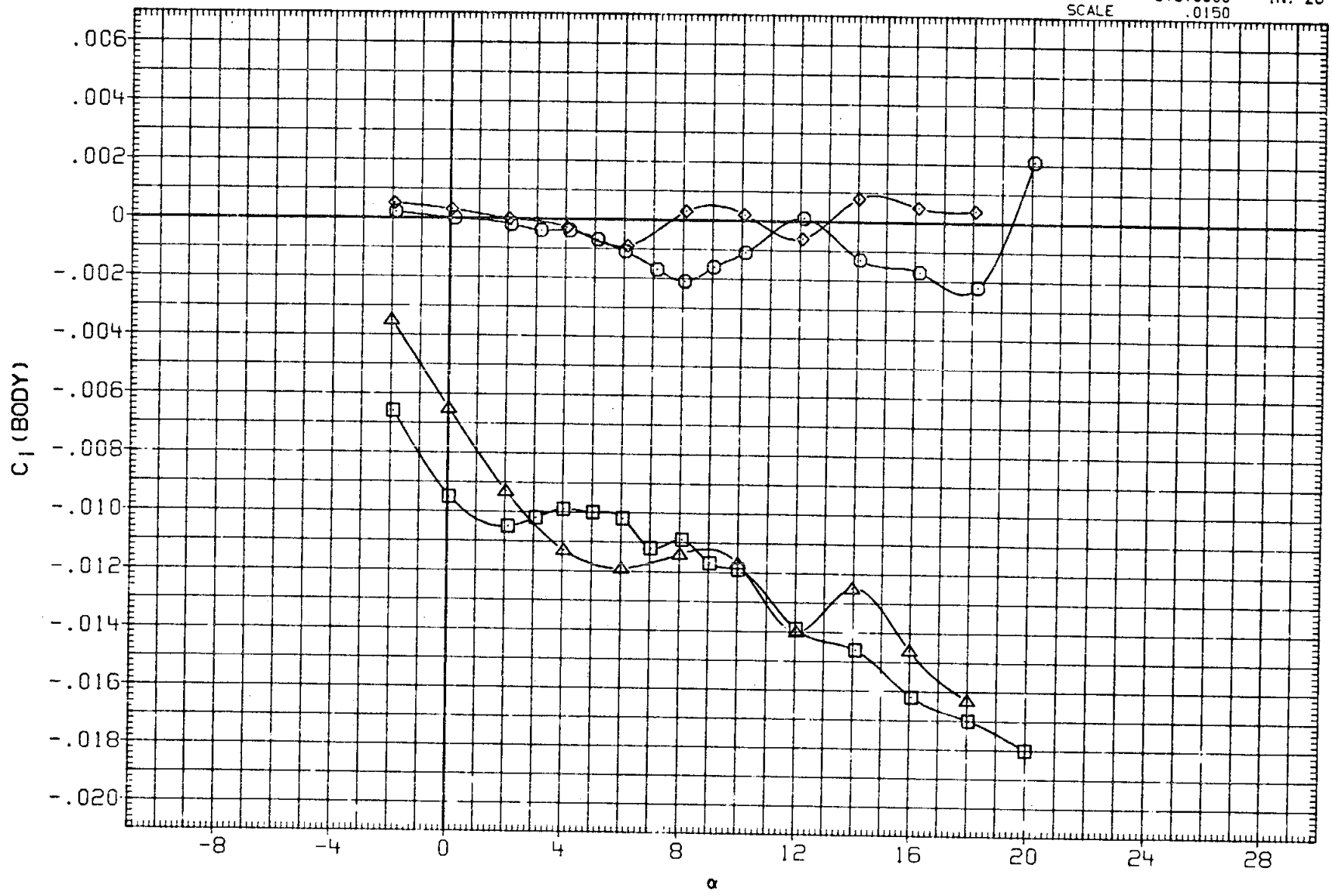

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

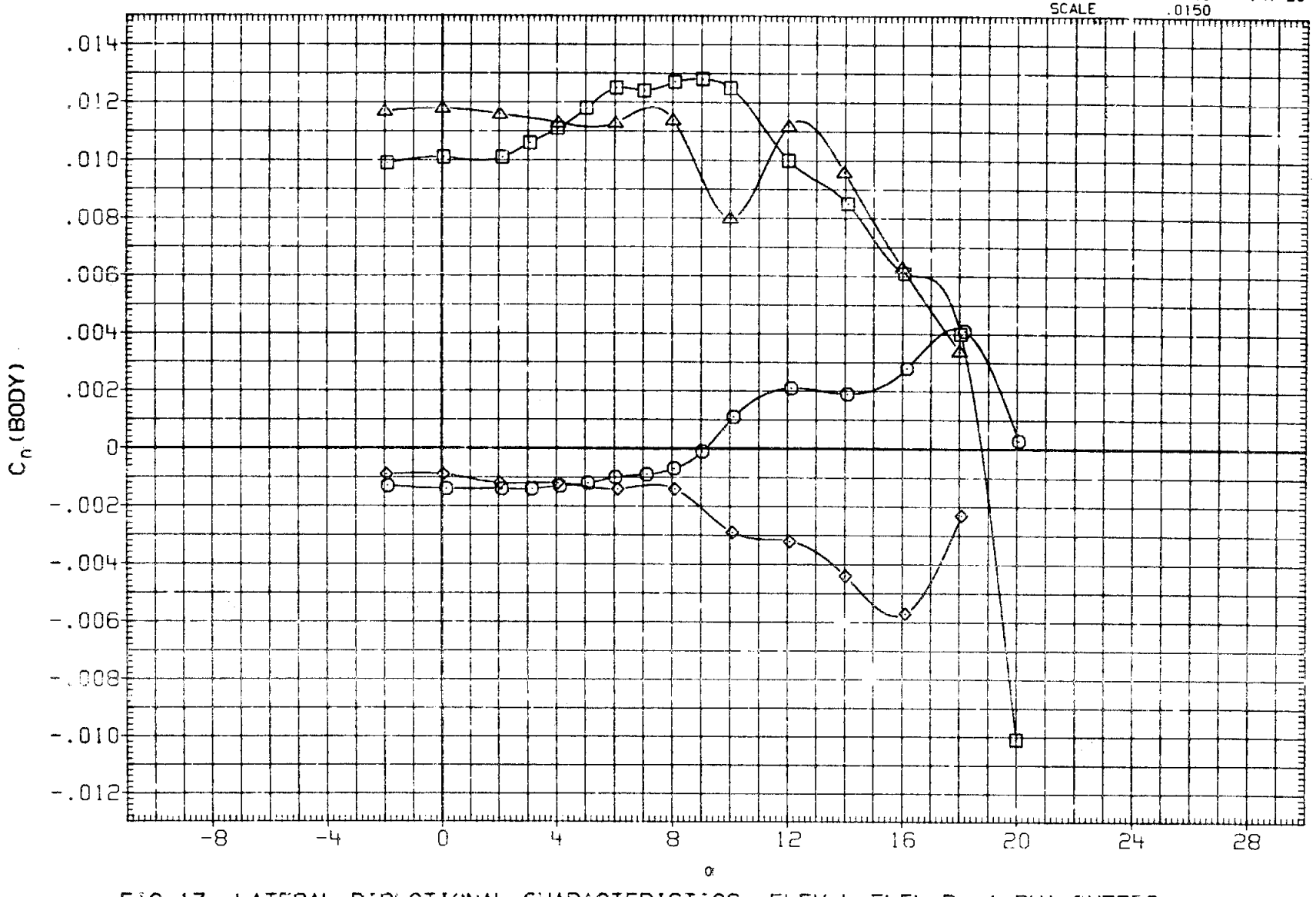

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

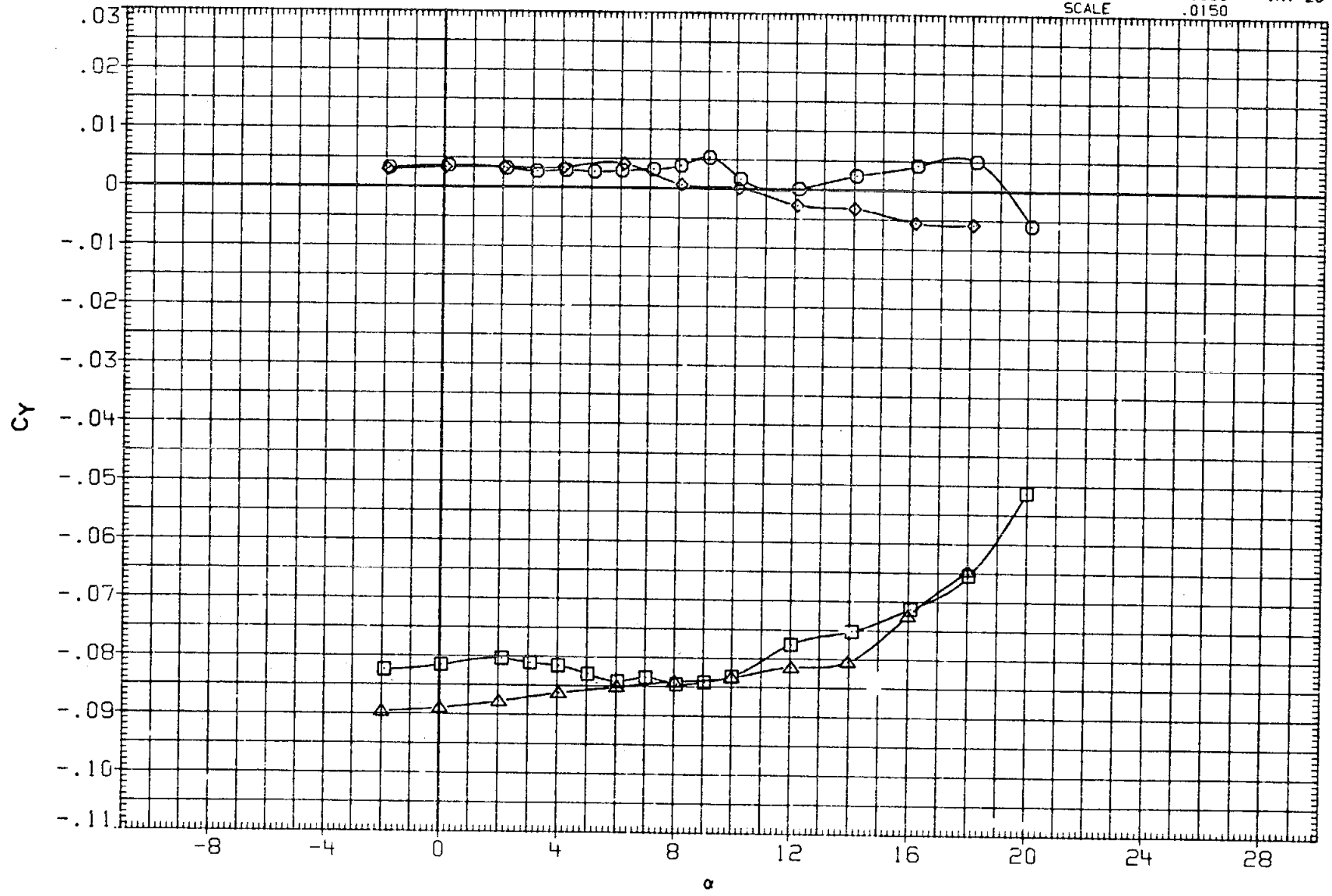

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILERON	RUDDER	SPDBK	BETA	ELEVON
R28001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R28006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R28009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

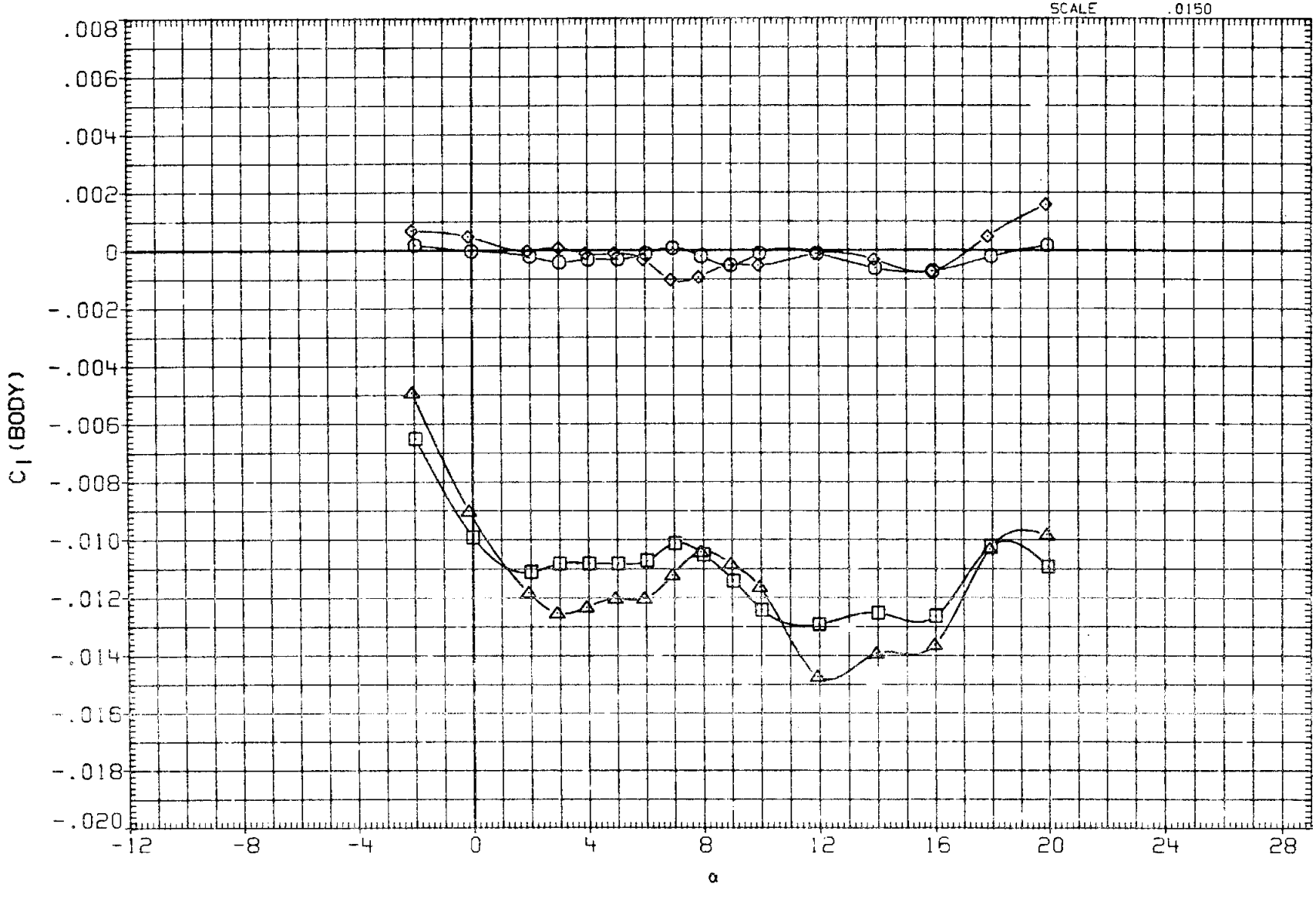

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

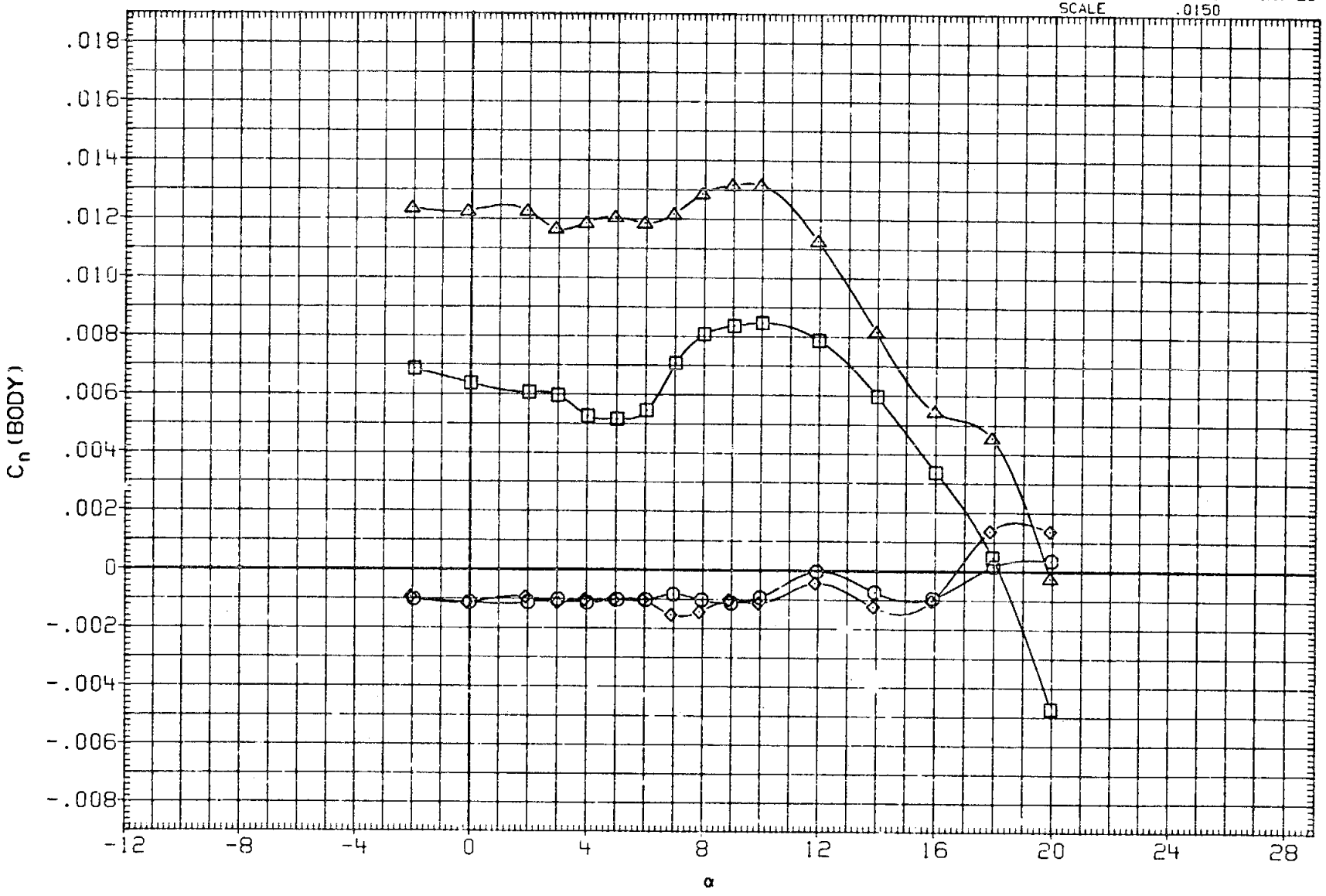

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B001	○	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	.000
R2B006	◇	ARC 200-1 11(LA77) OV101	.000	.000	25.000	.000	-10.000
R2B009	△	ARC 200-1 11(LA77) OV101	.000	.000	25.000	4.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

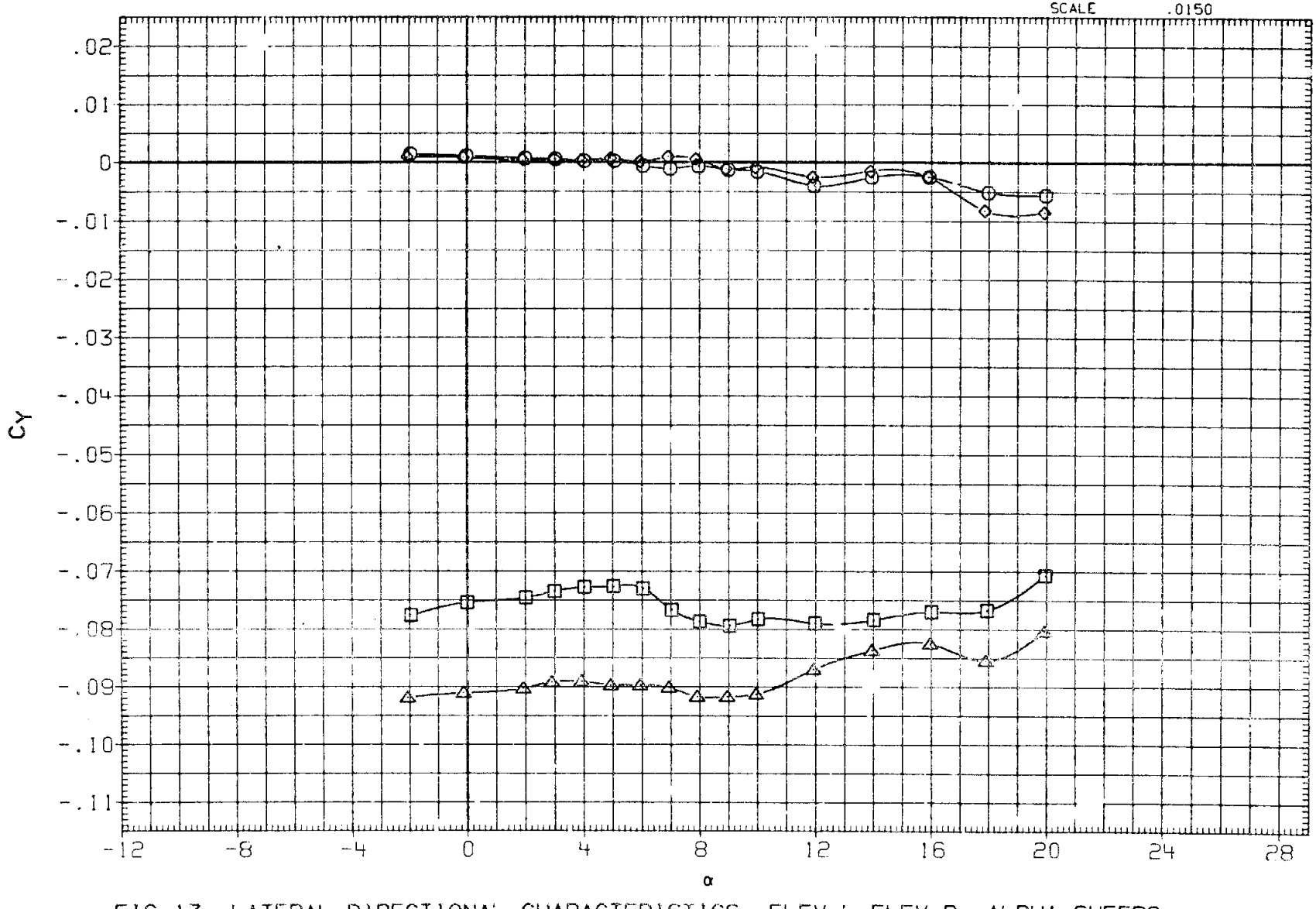

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

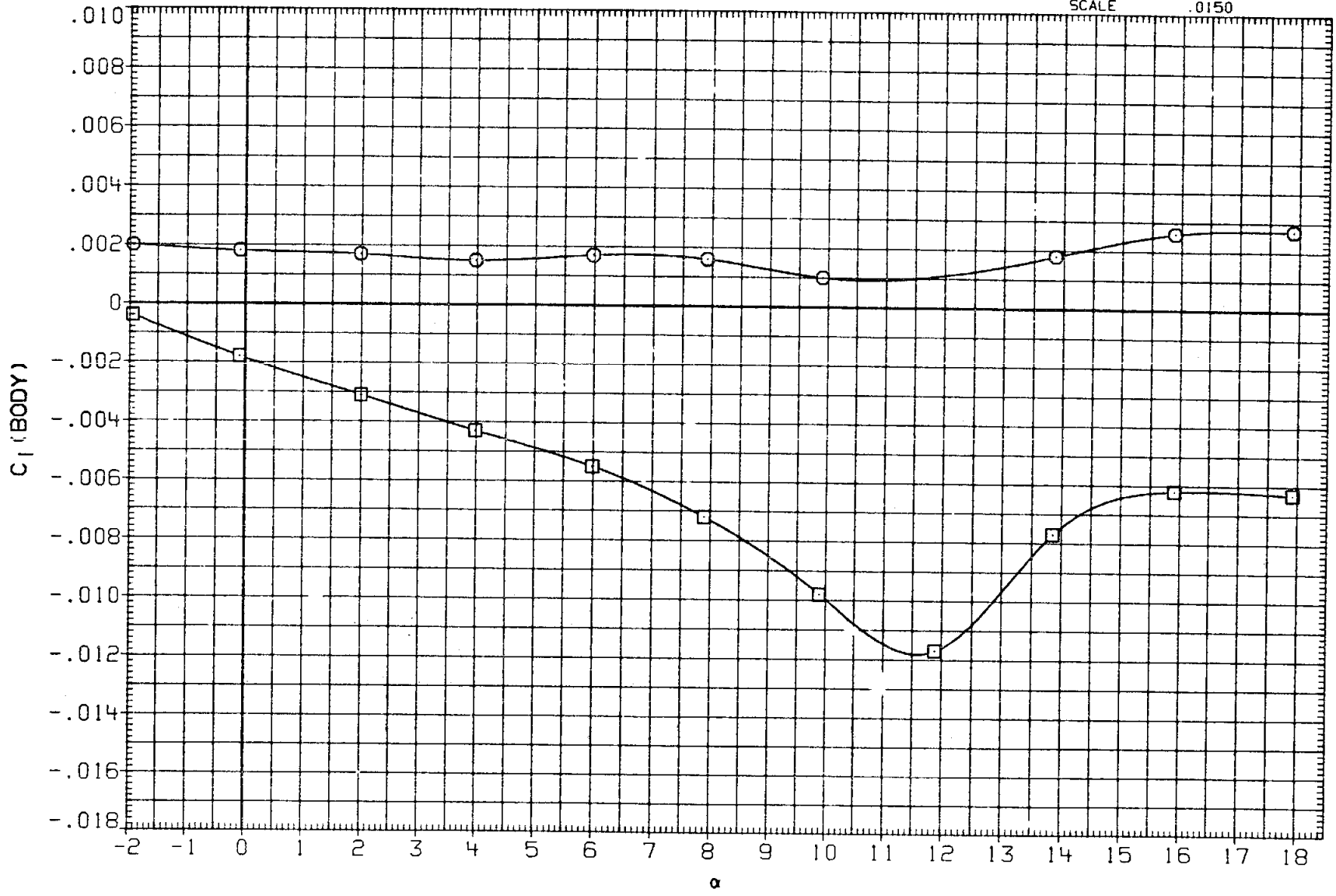

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

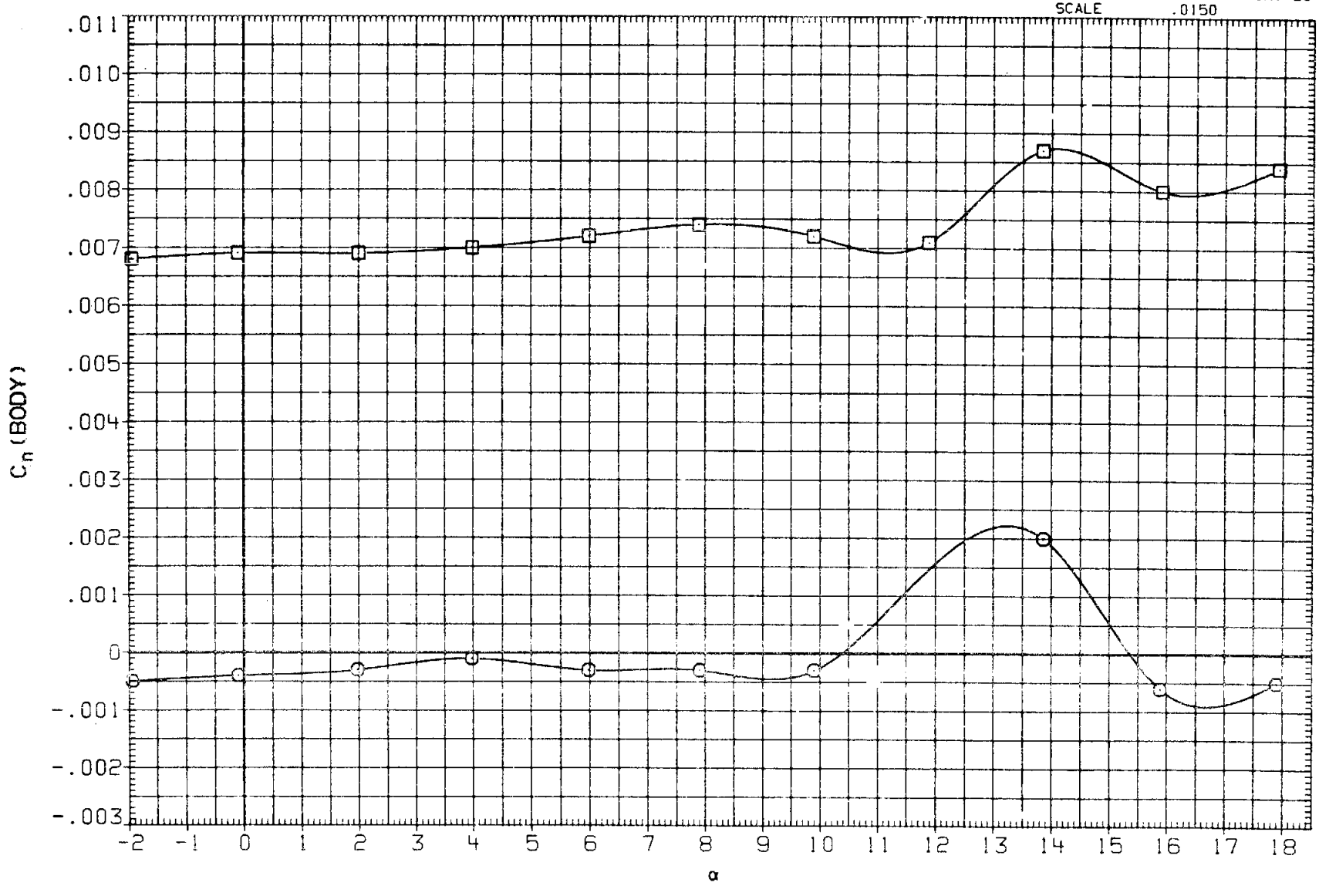

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R28177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

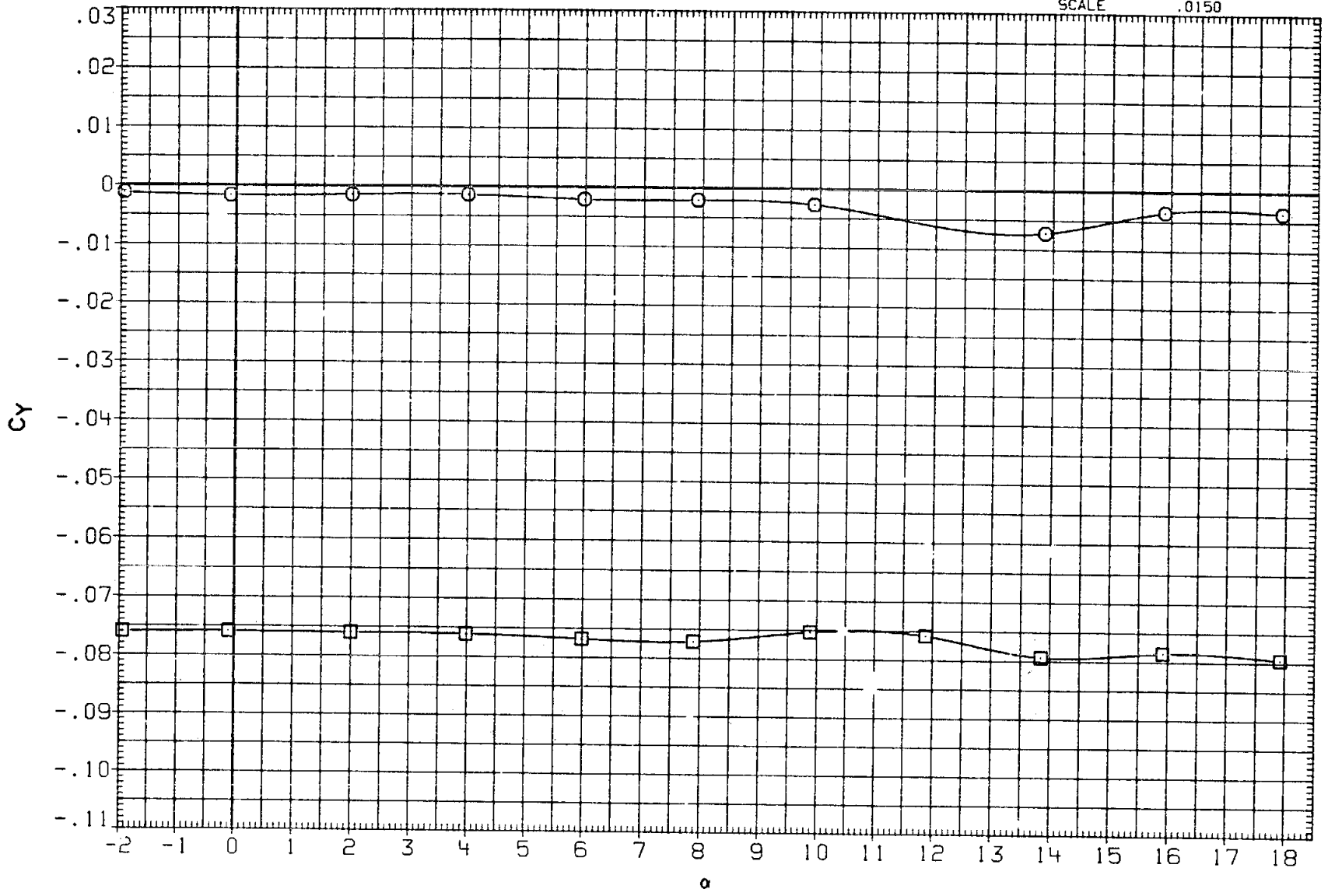

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

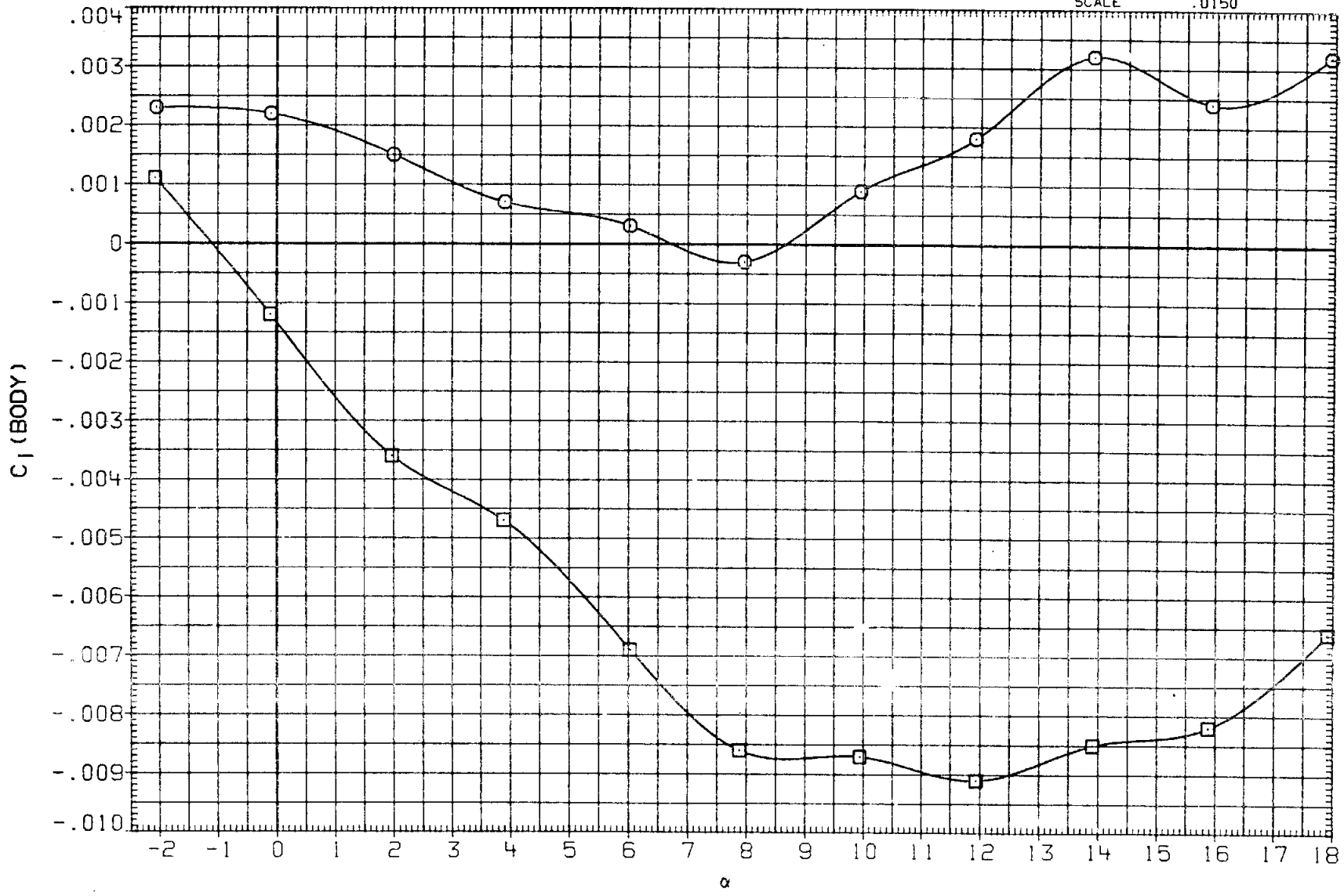

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

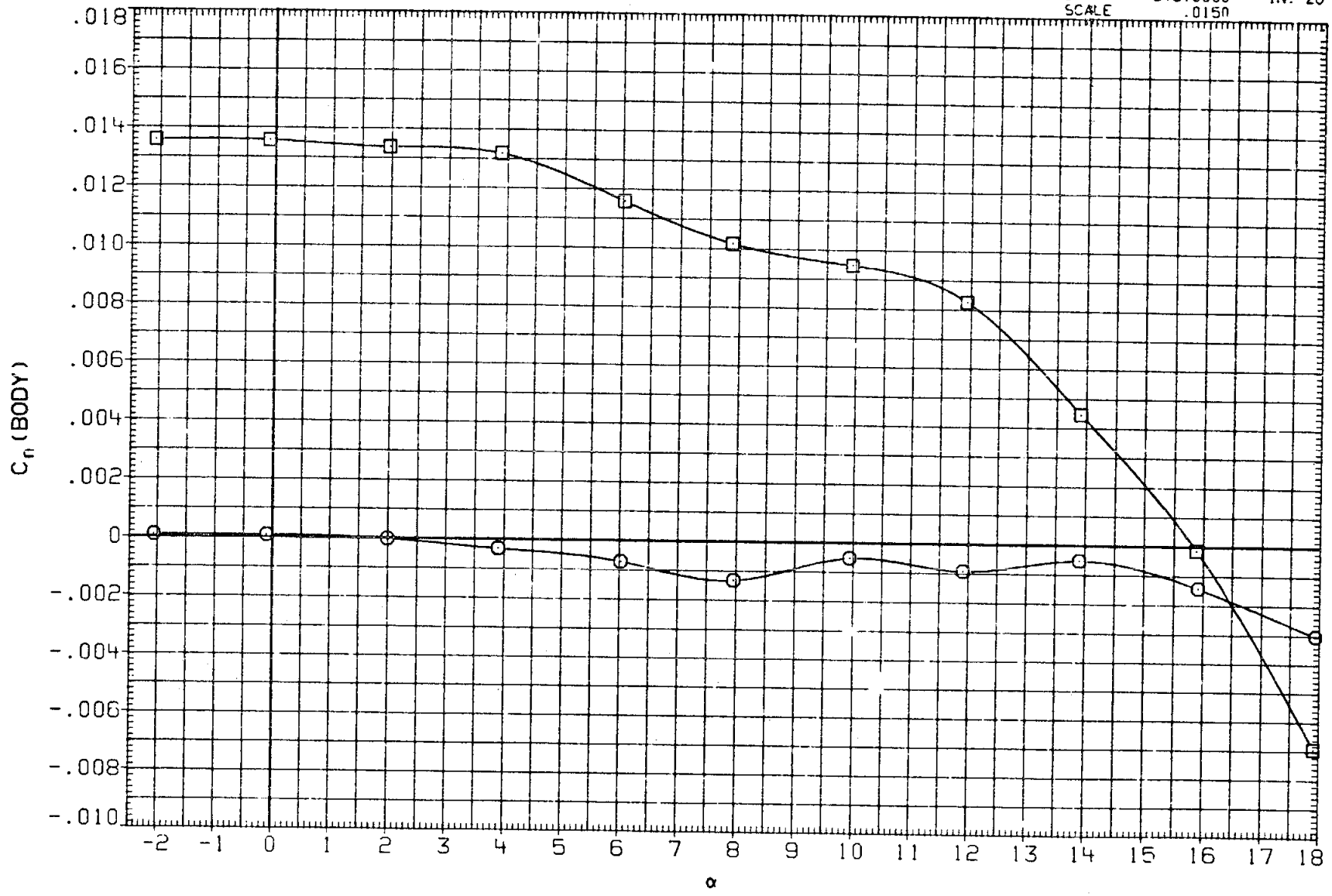

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

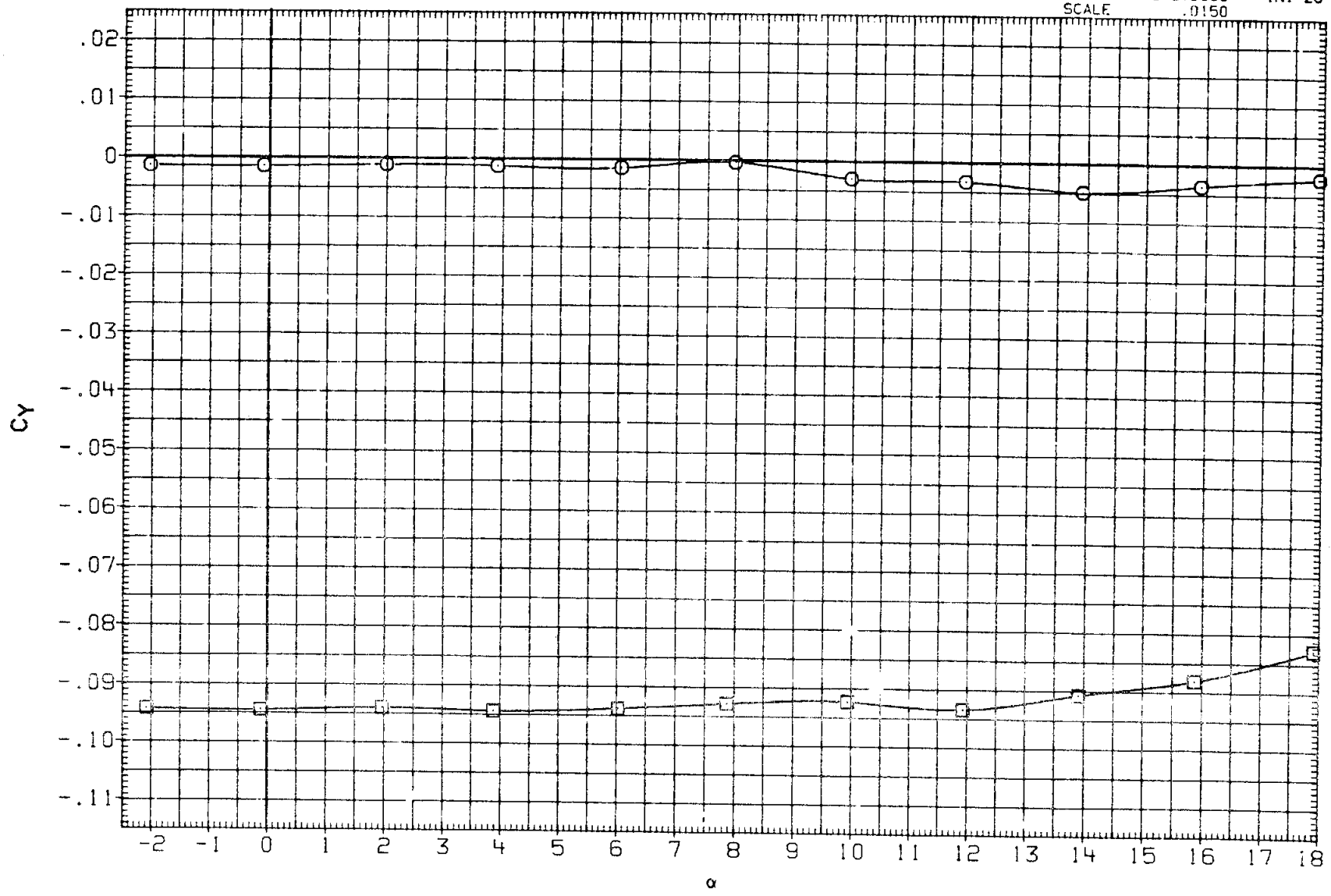

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 I:(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 II(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

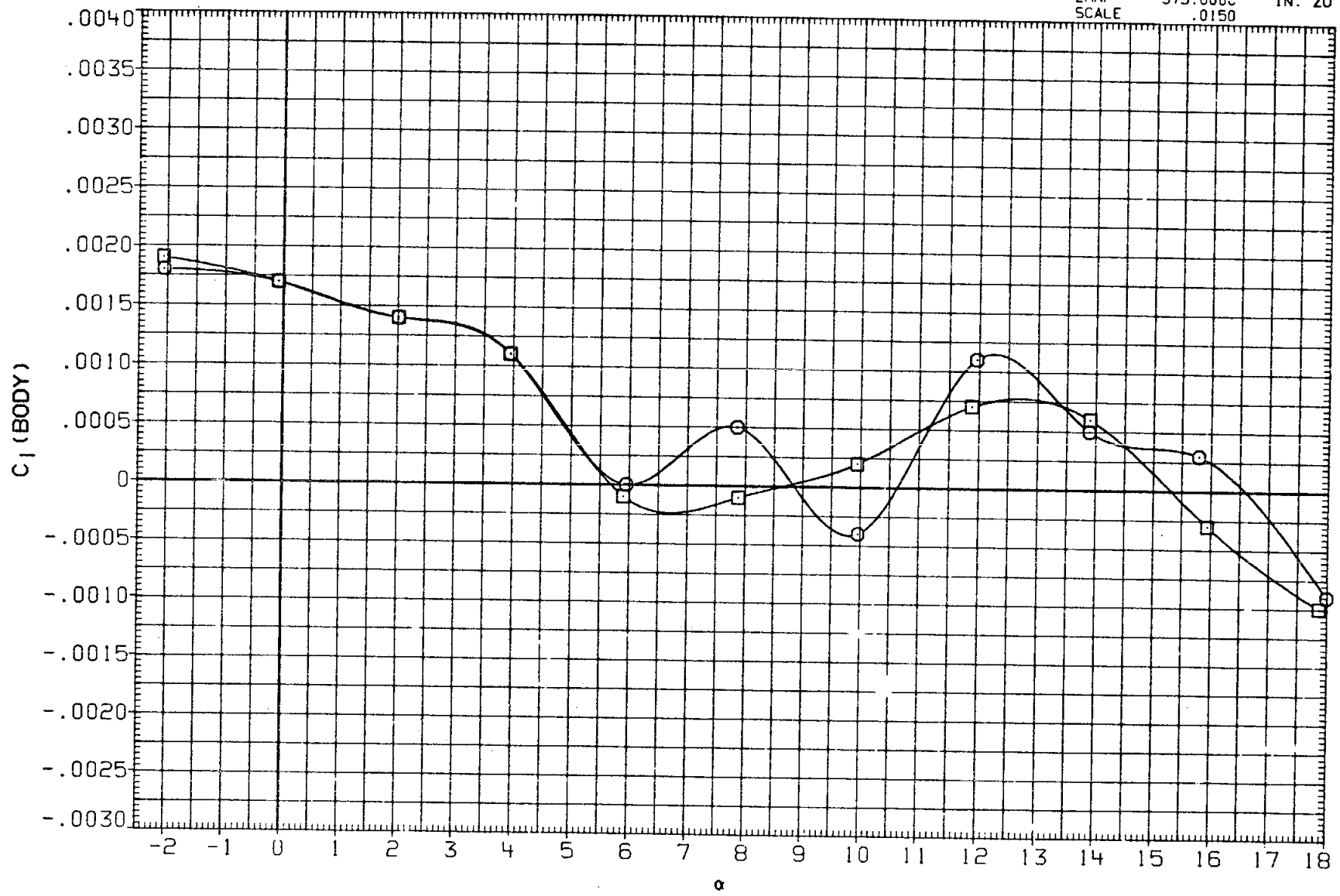

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R28180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

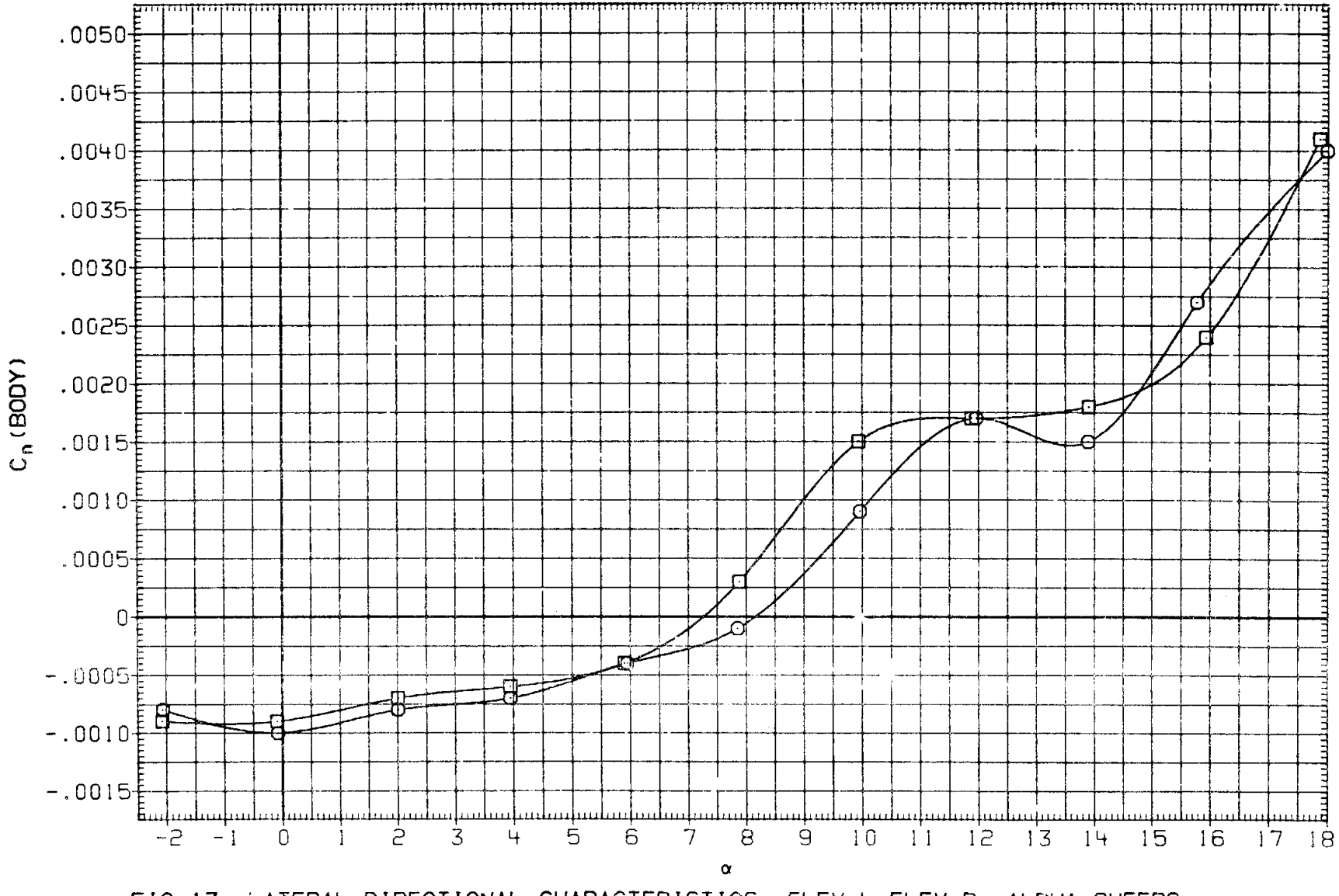

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

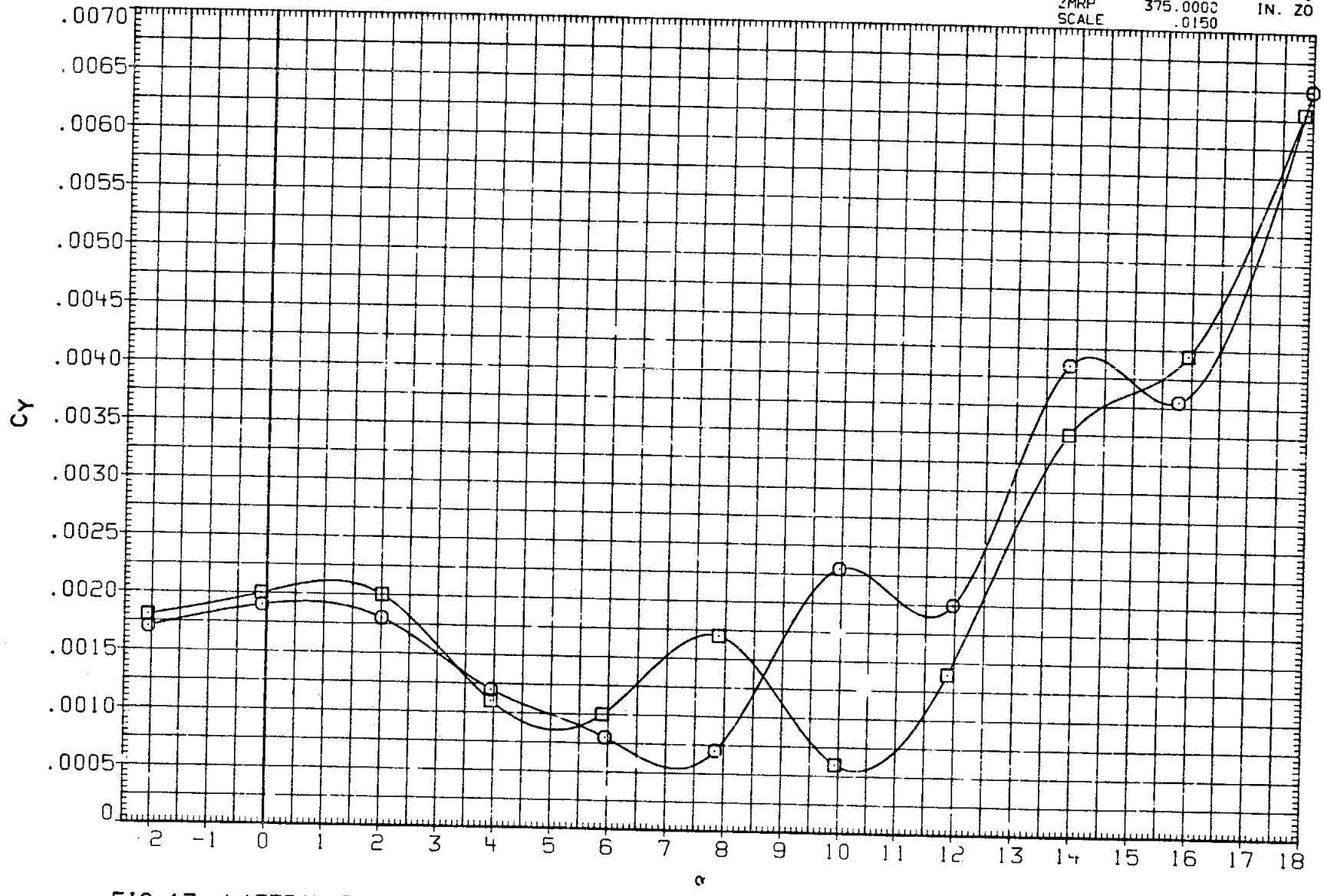

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

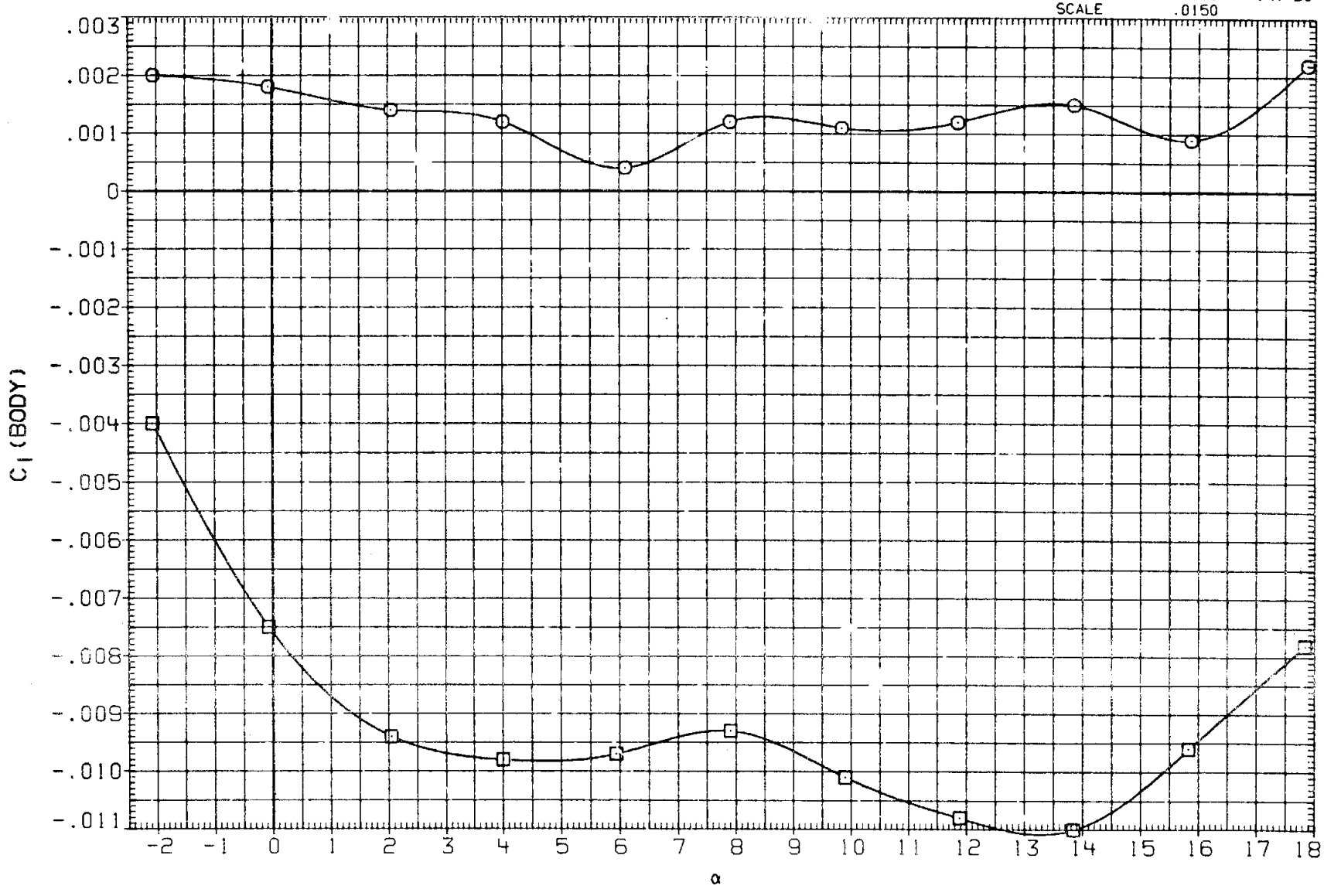

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R28180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

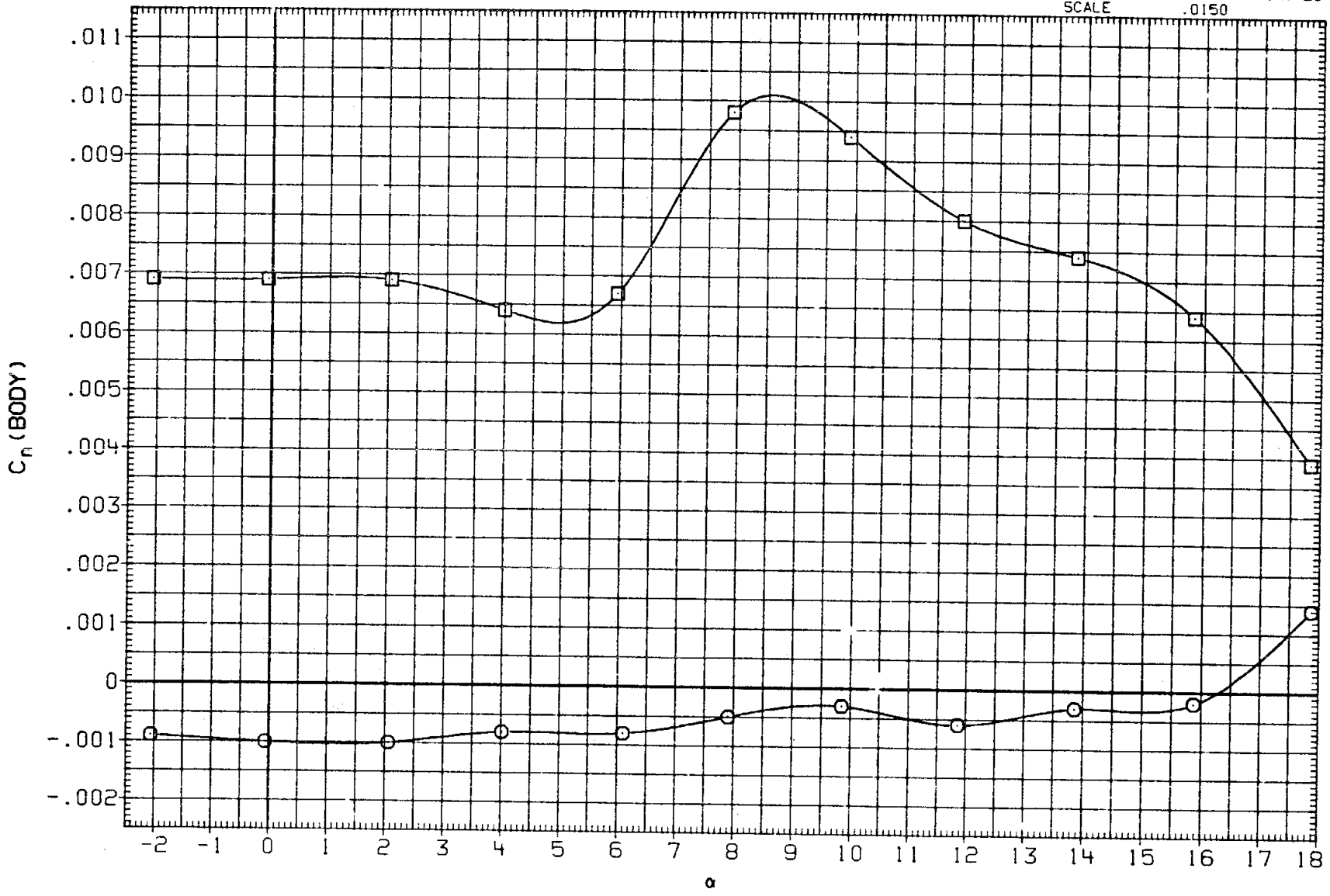

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B179	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B180	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

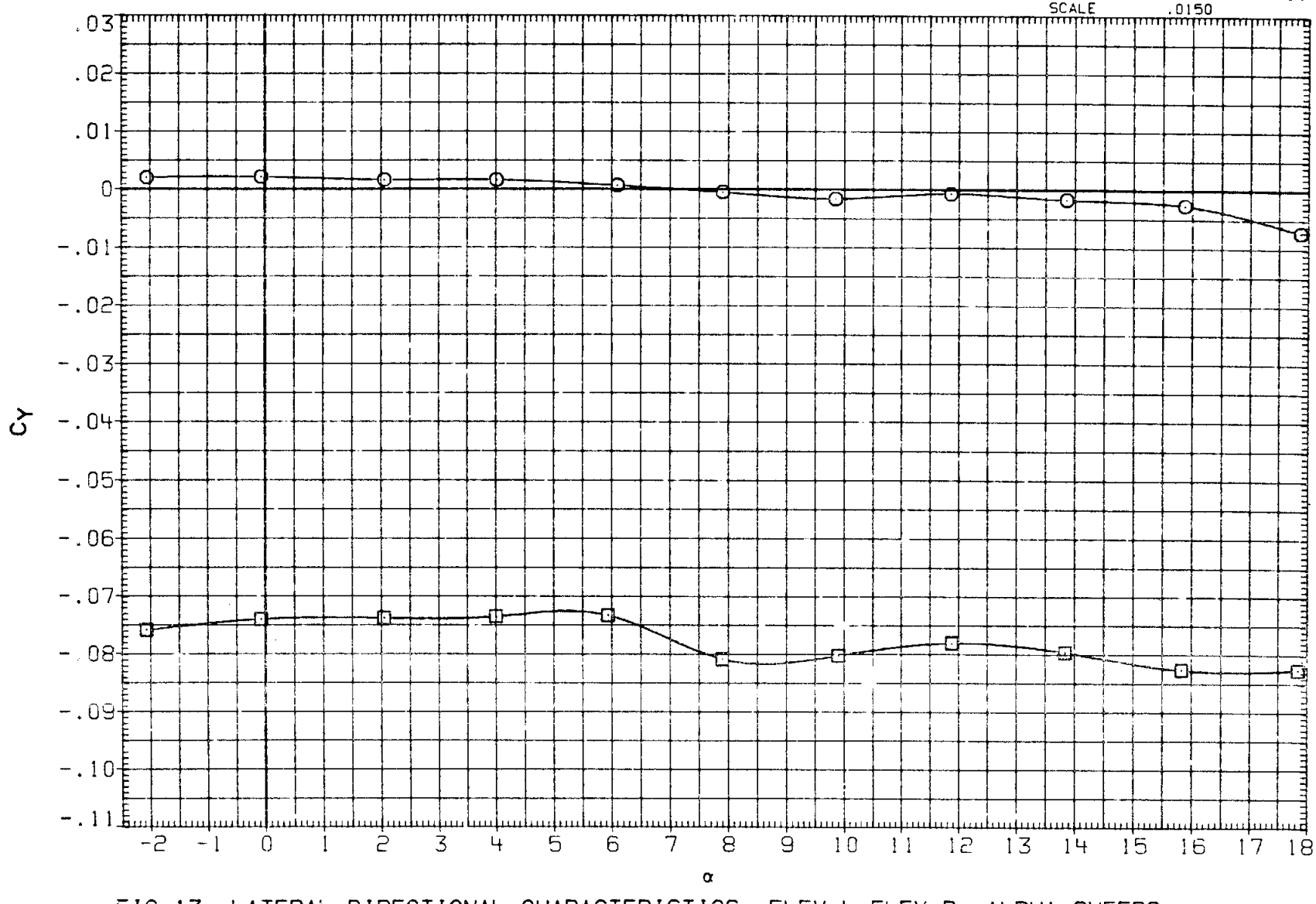

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

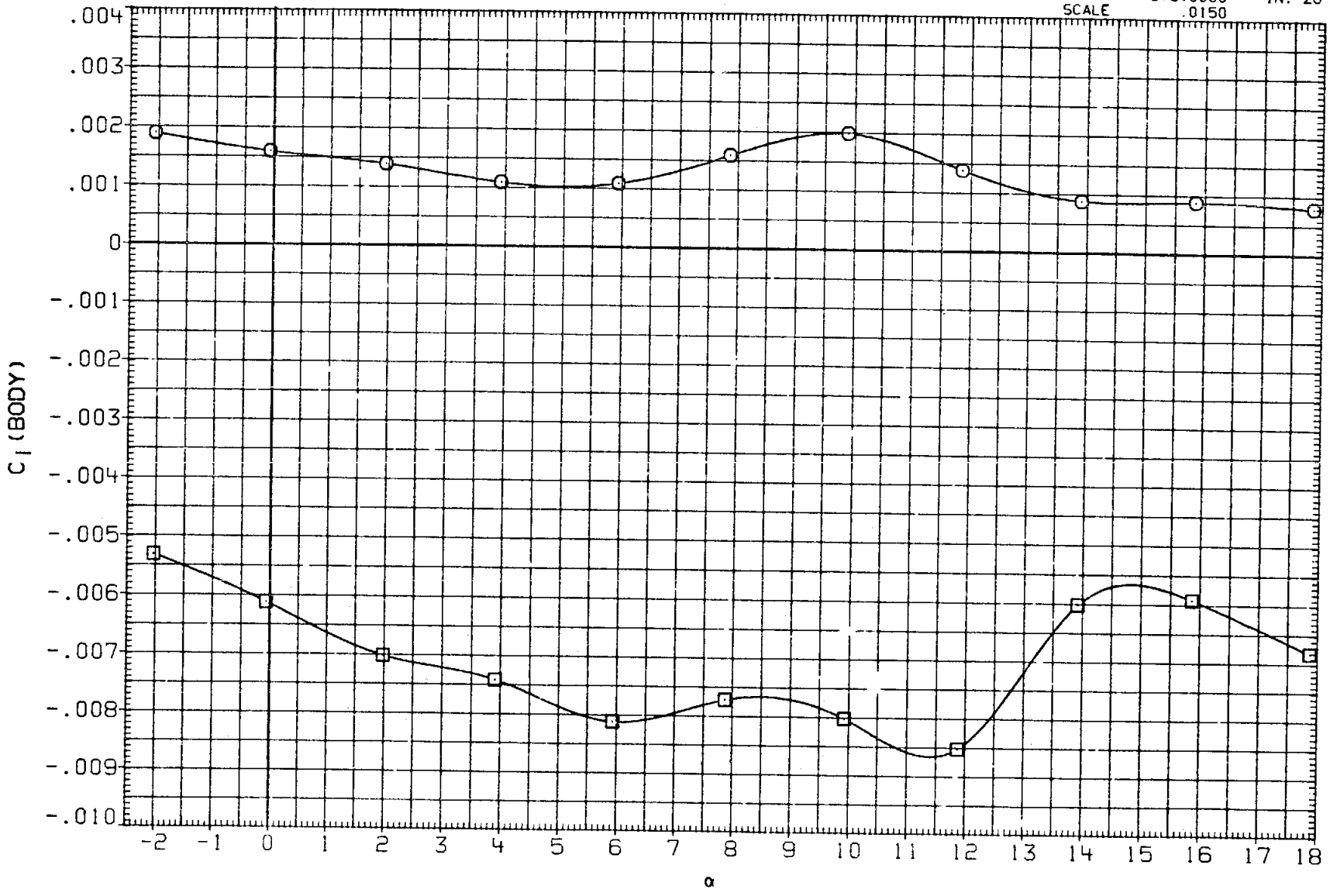

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

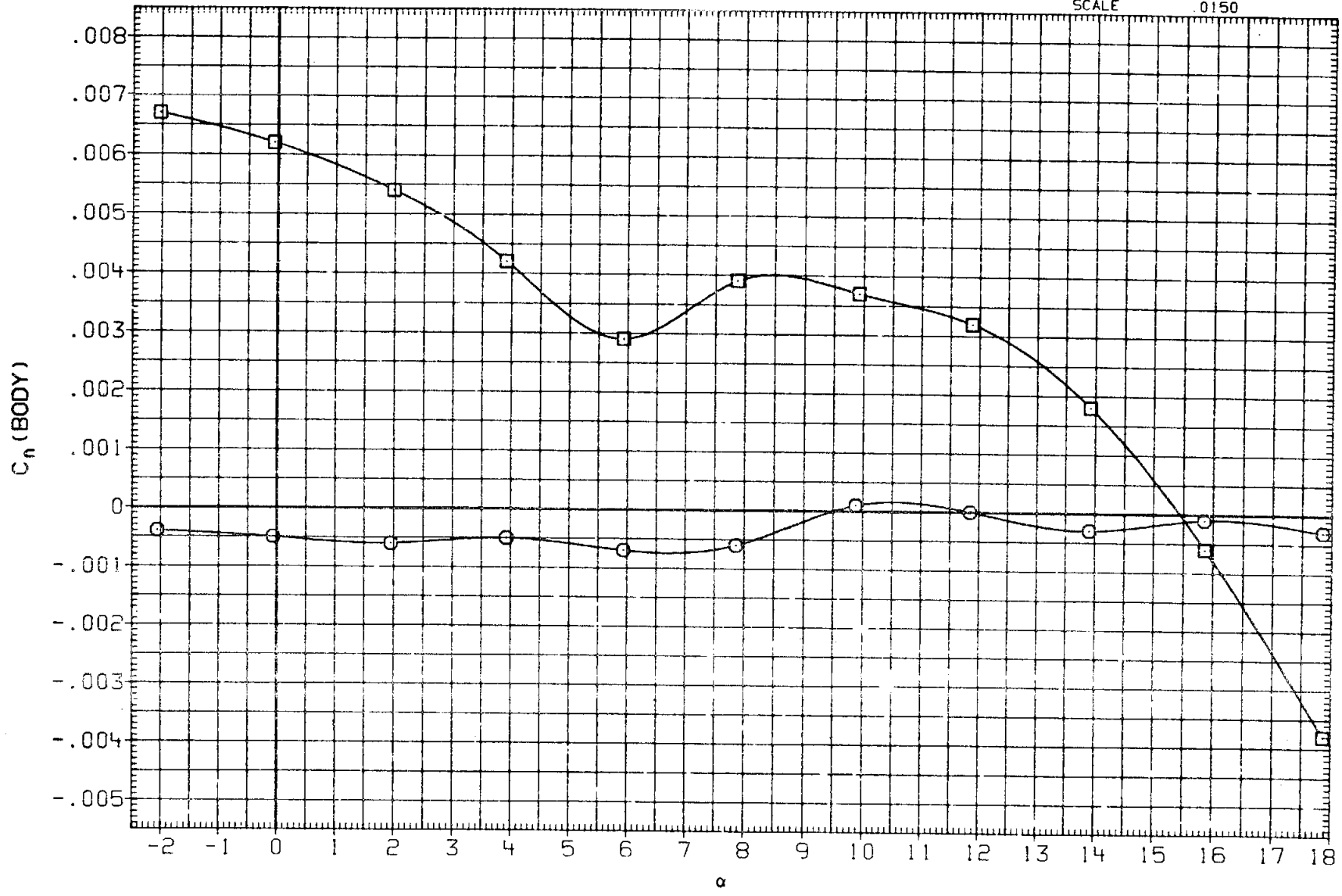

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B176	○	ARC 200-1 11(LA77) OV101	.000	.000	40.000	.000	.000
R2B177	□	ARC 200-1 11(LA77) OV101	.000	.000	40.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

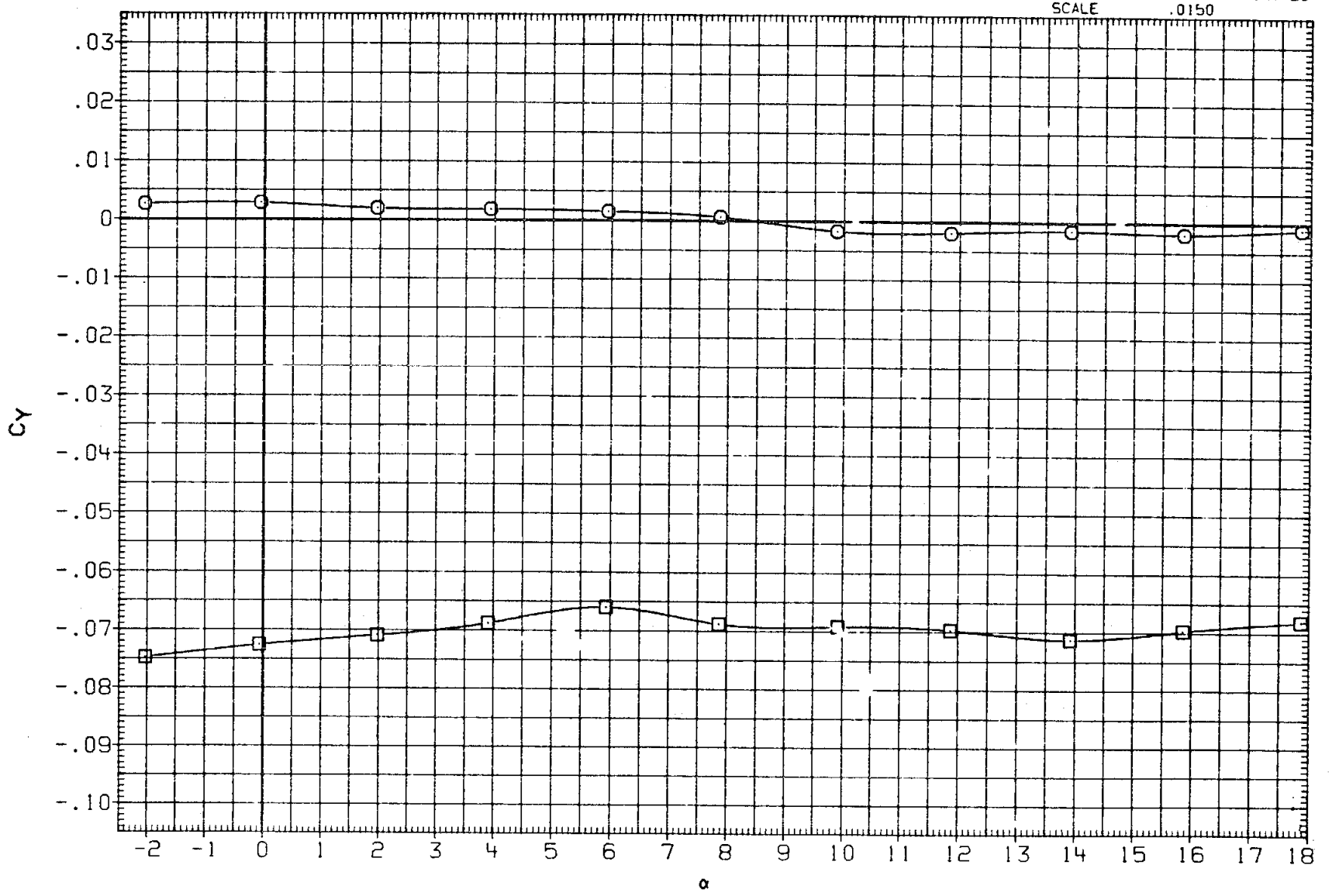

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

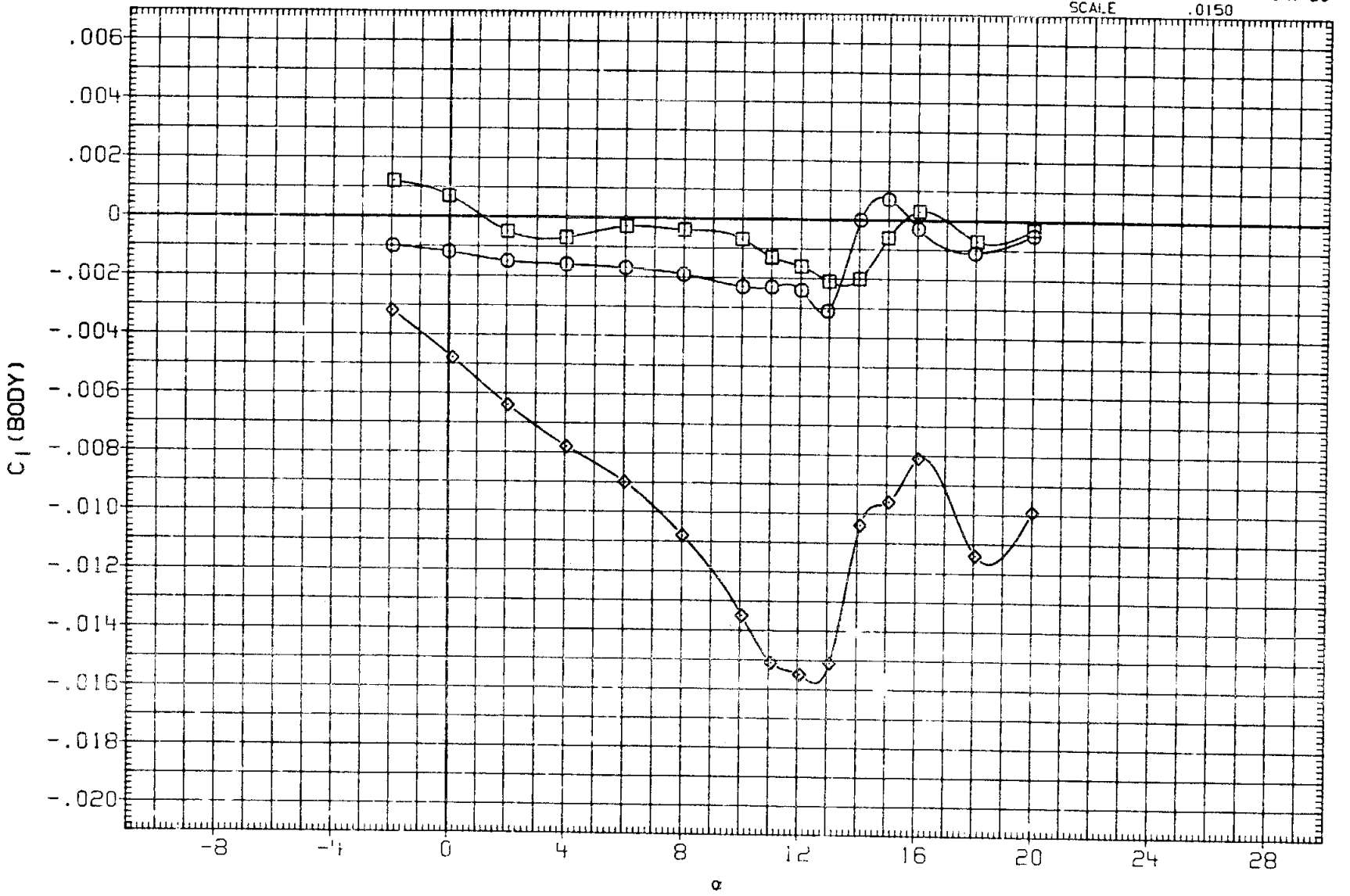

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

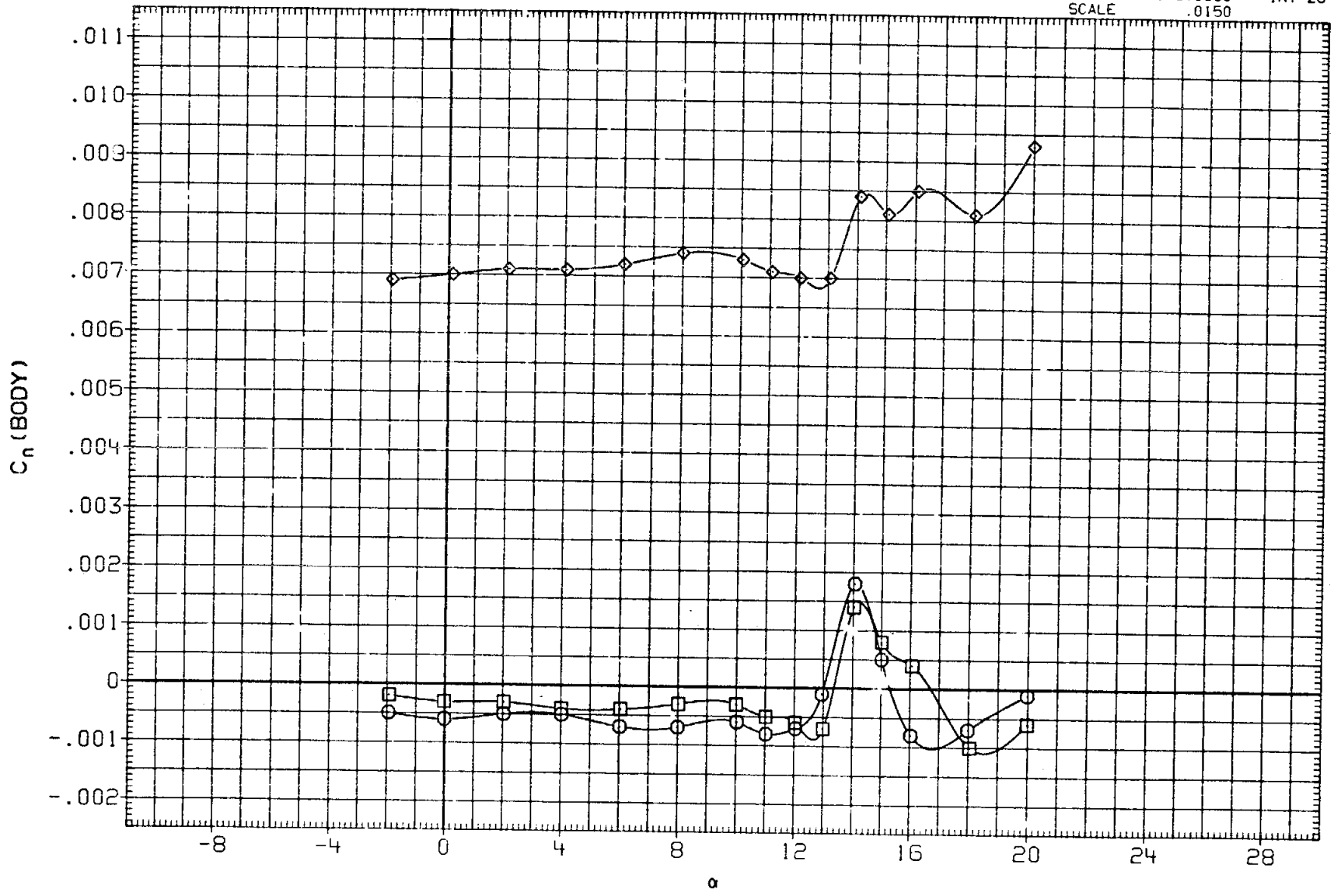

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

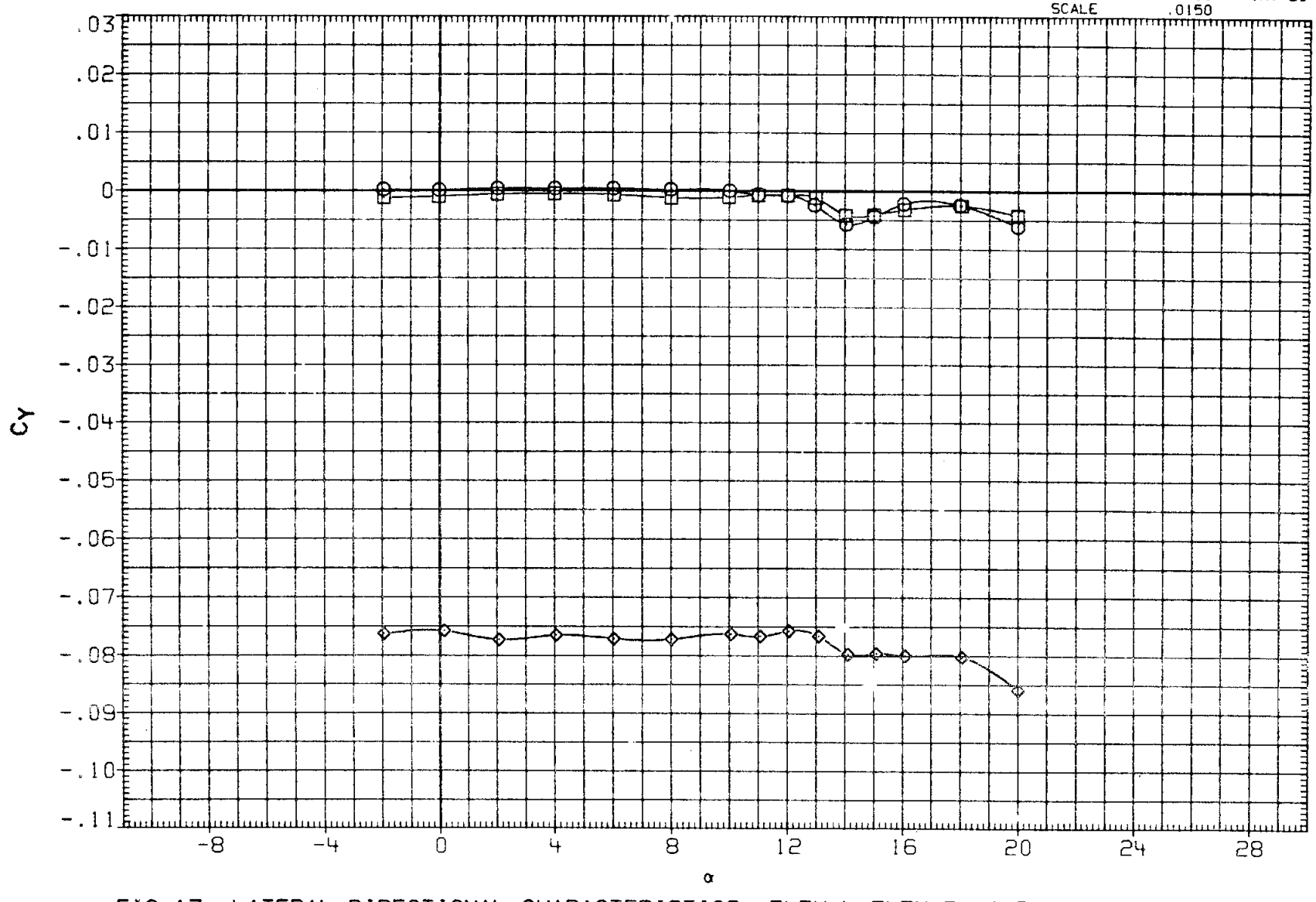

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R28085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R28086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R28087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

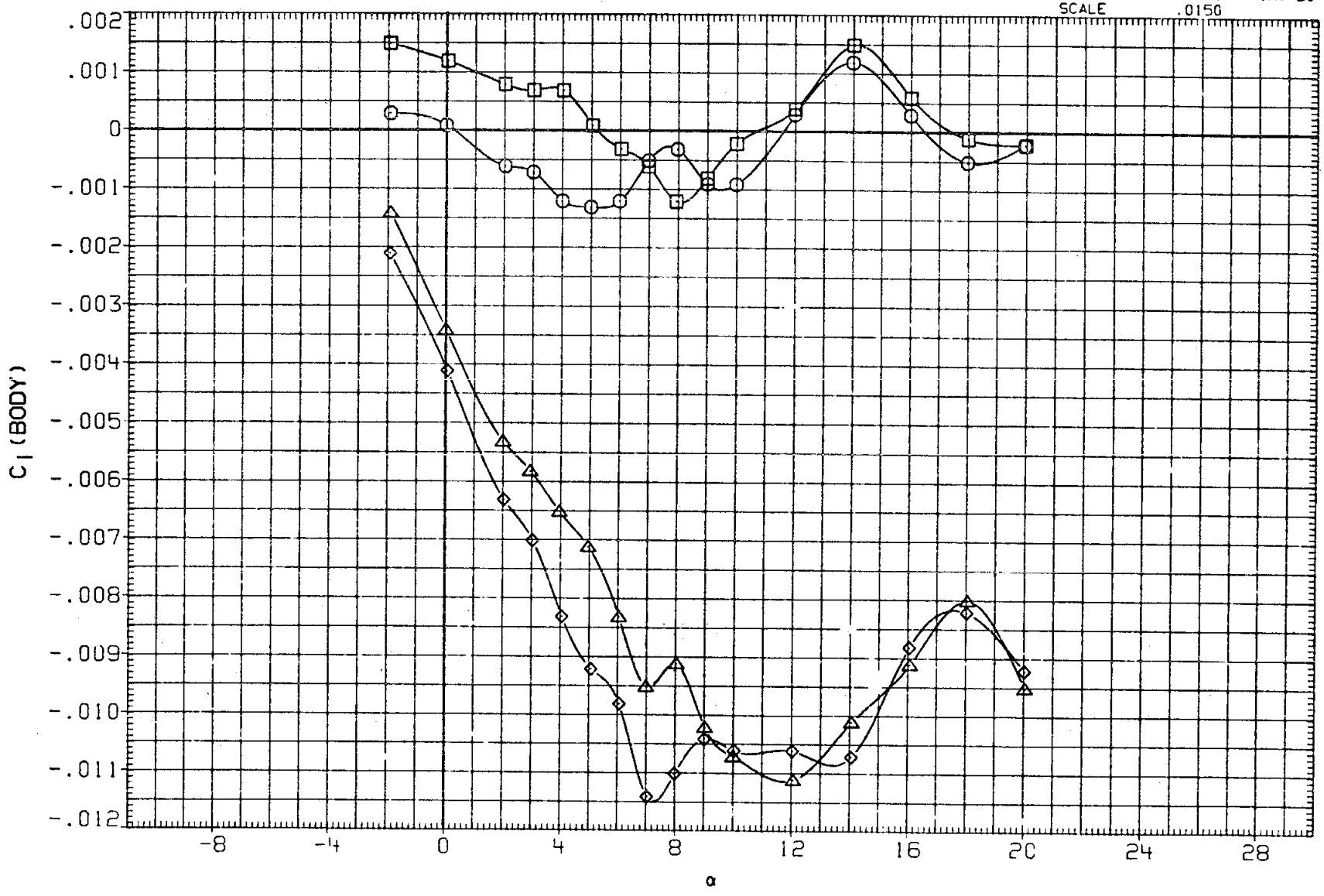

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

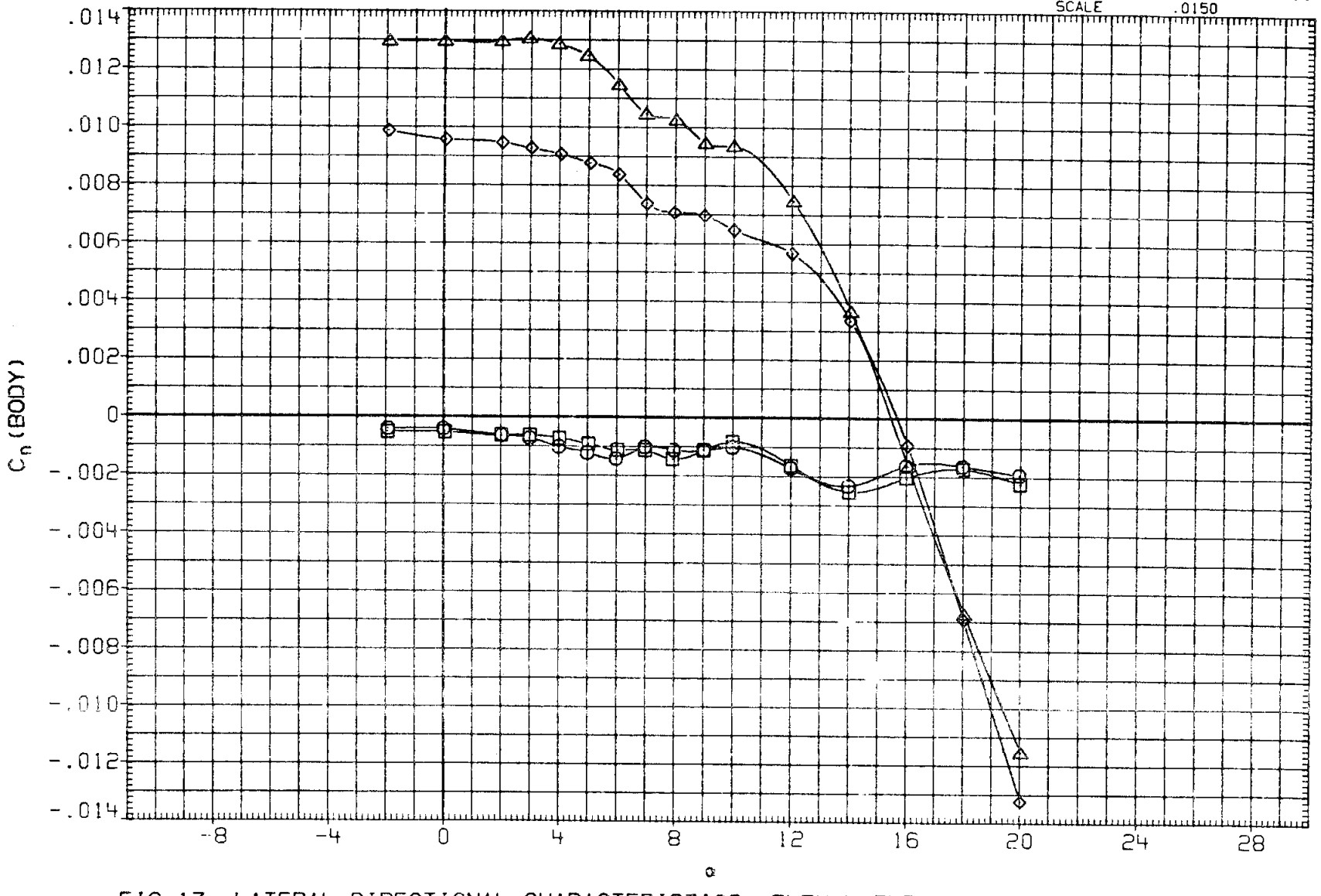

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

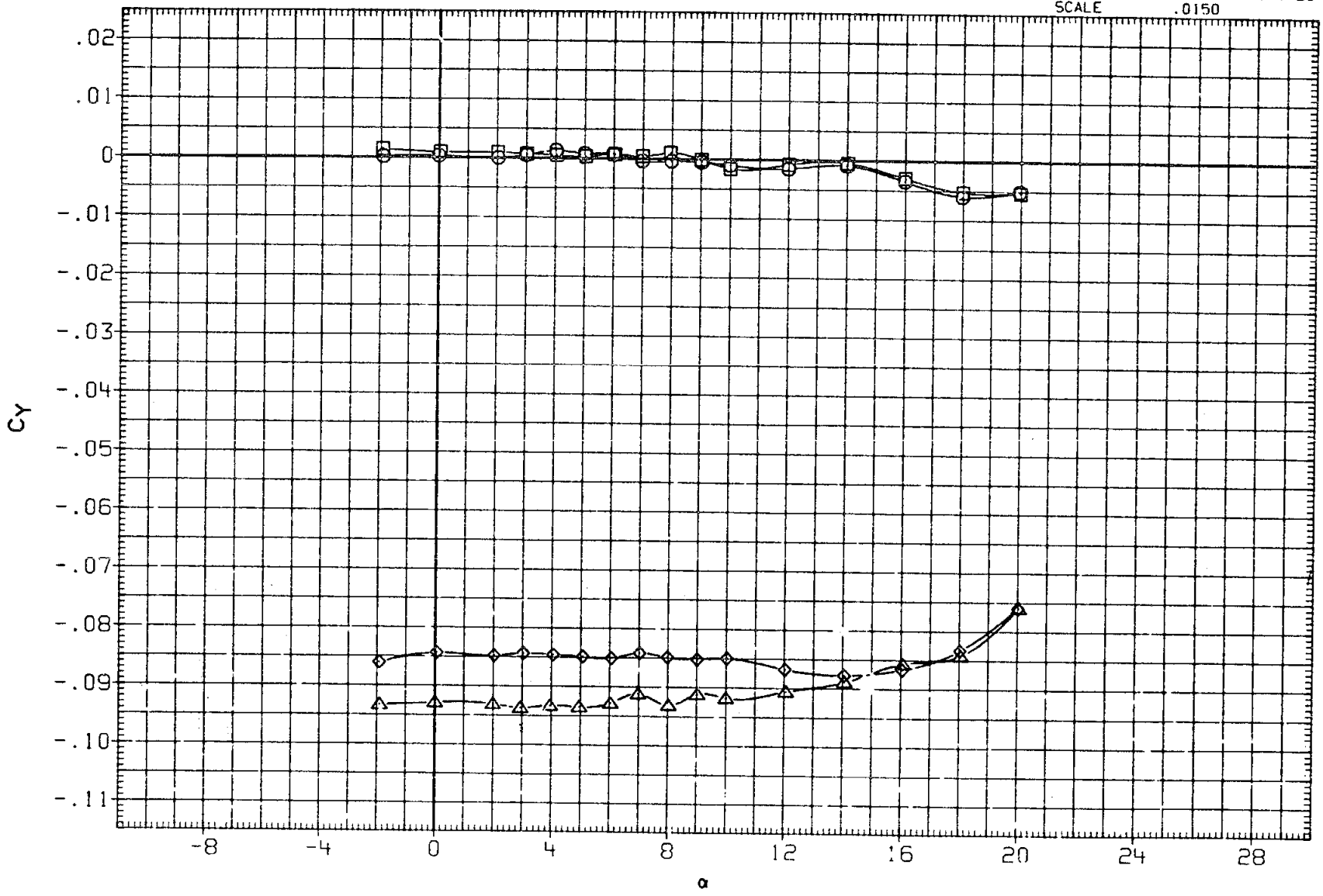

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2593.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

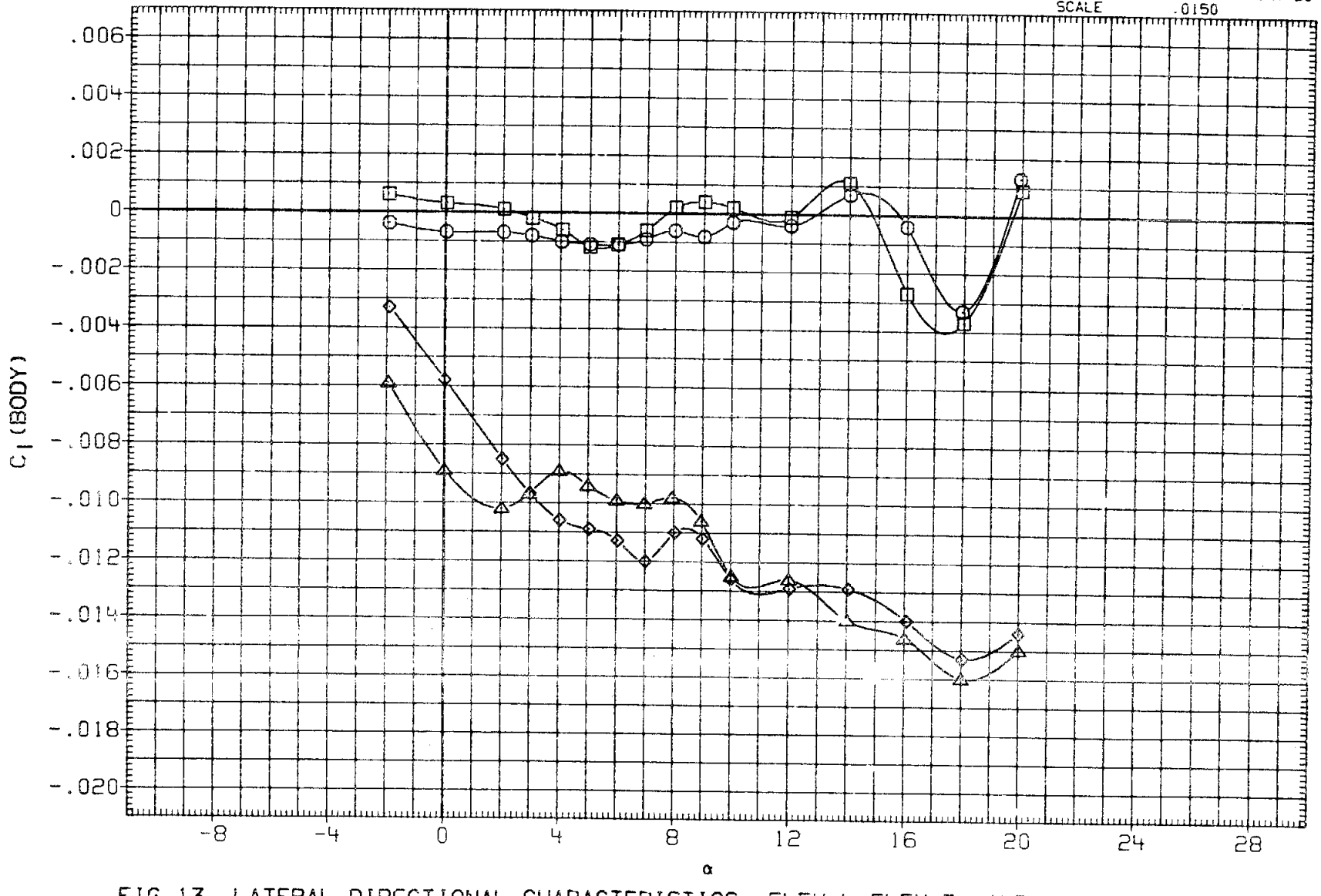

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

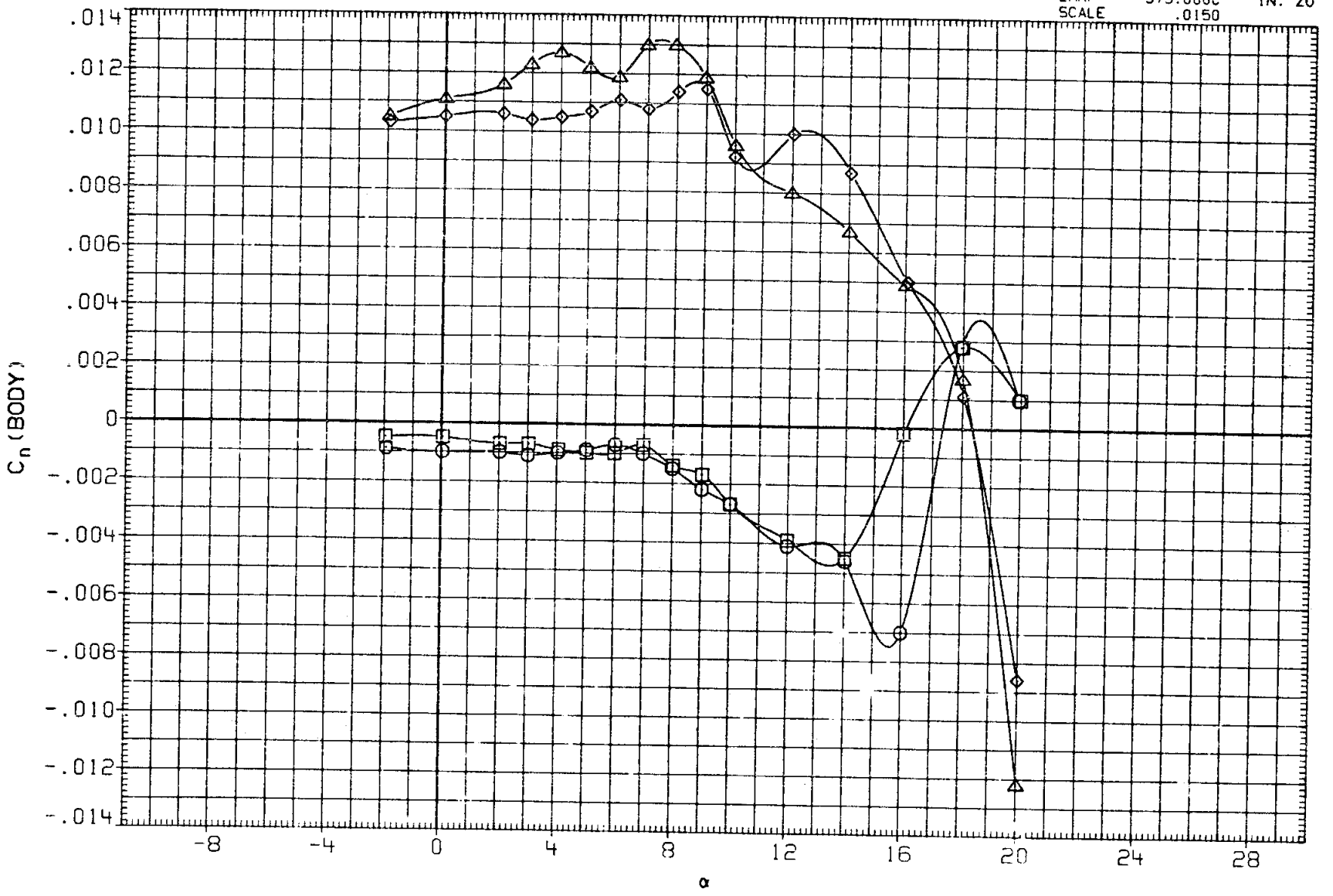

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

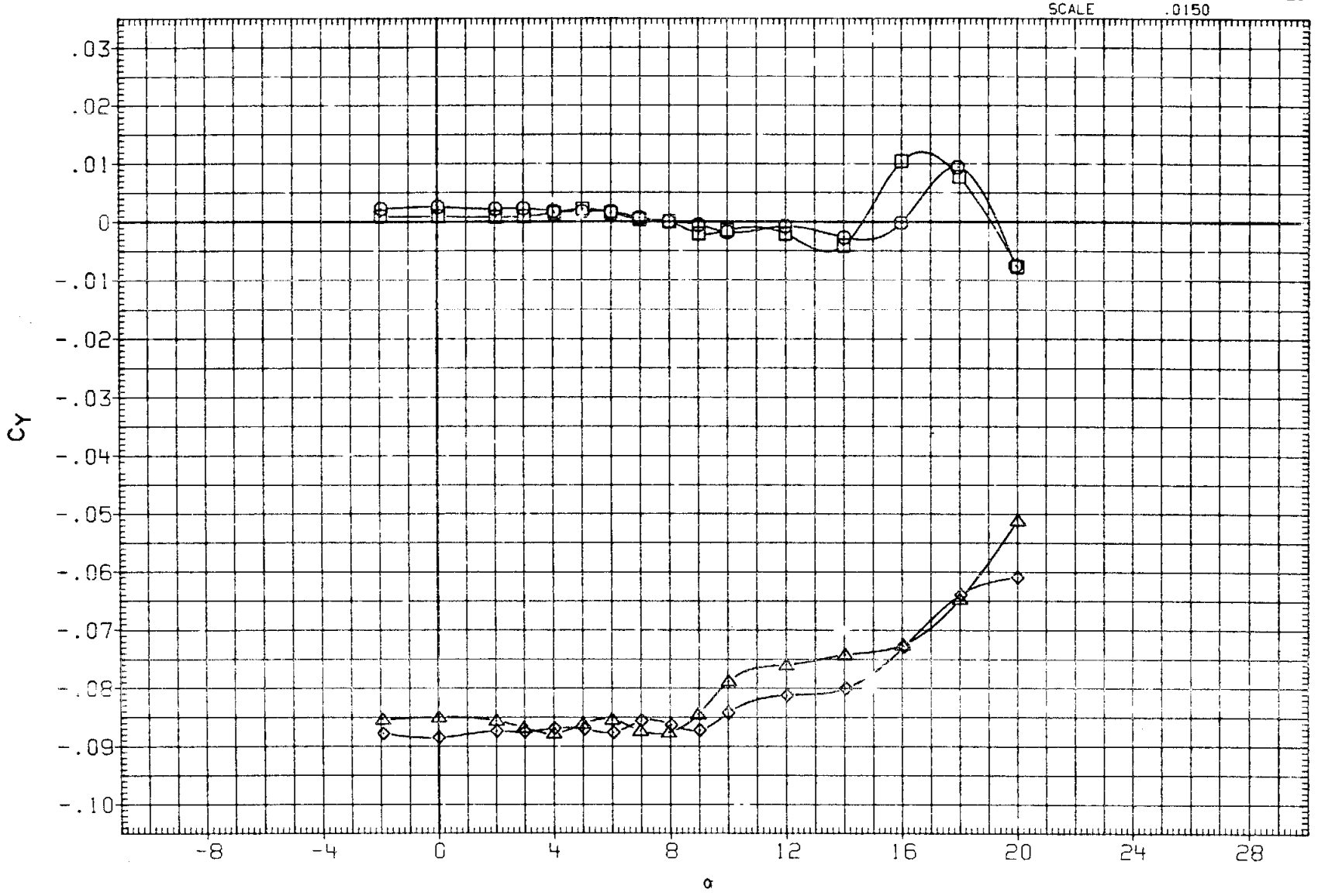

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

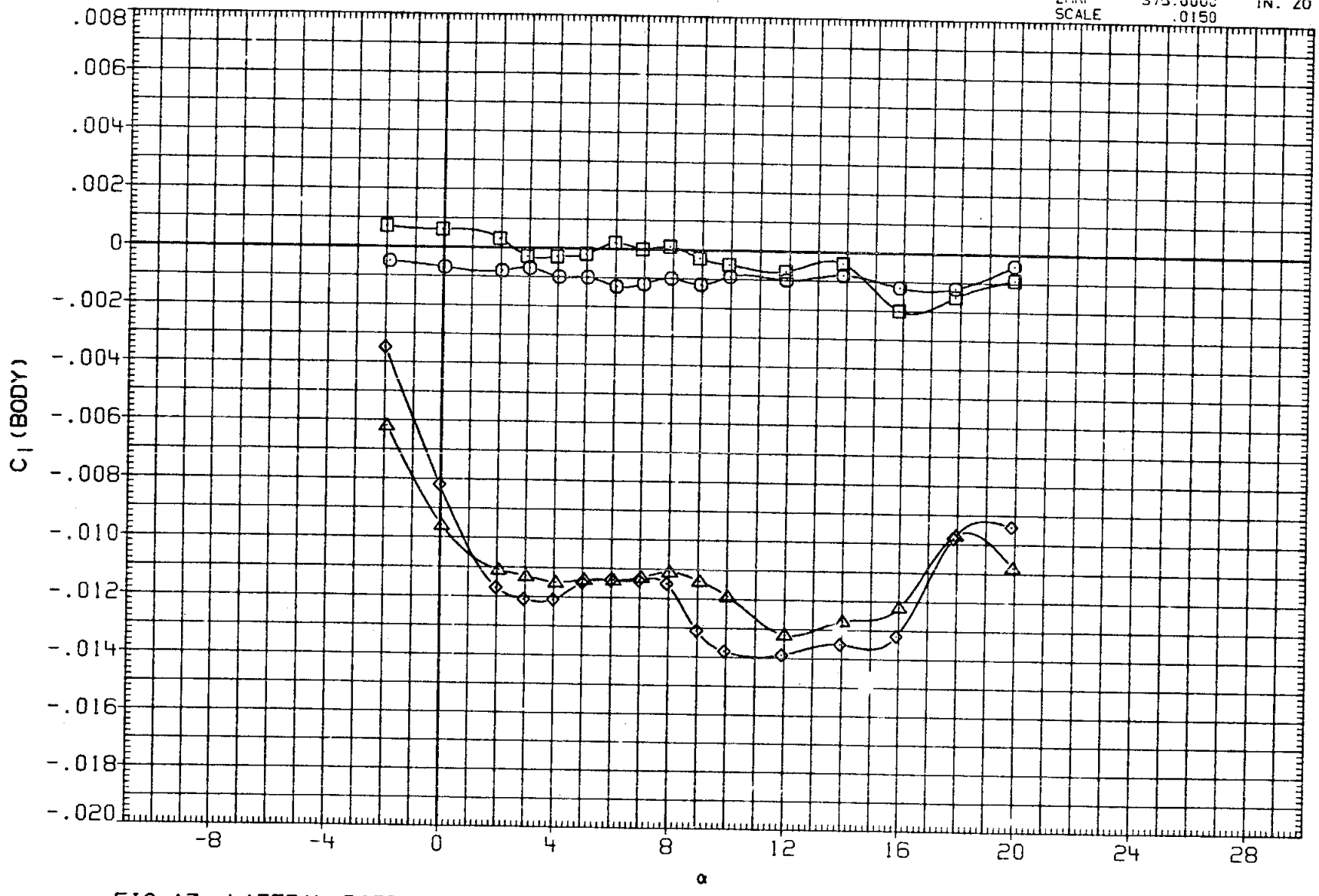

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R2B086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R2B087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

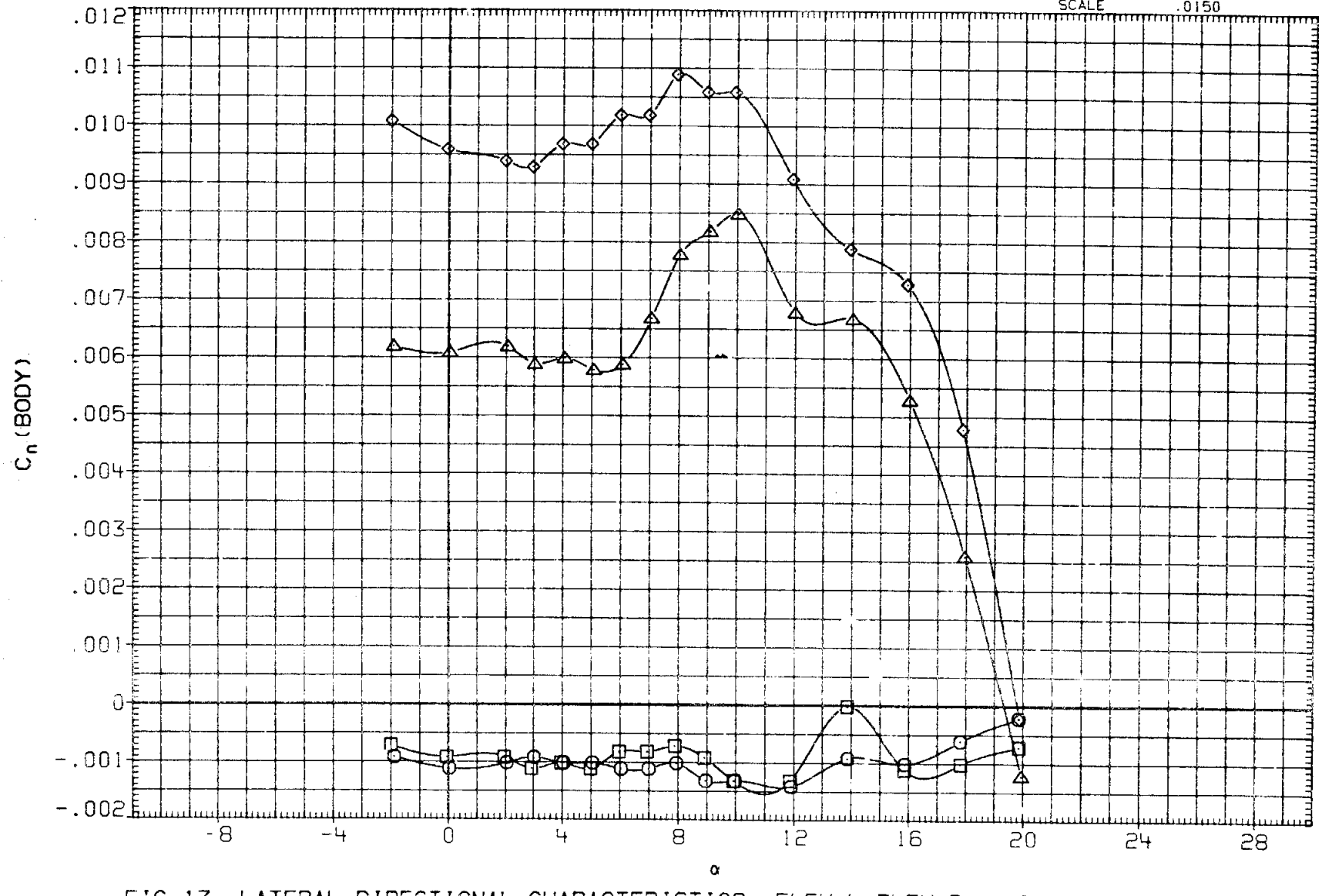

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28084	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R28085	□	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	-10.000
R28086	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	-10.000
R28087	△	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

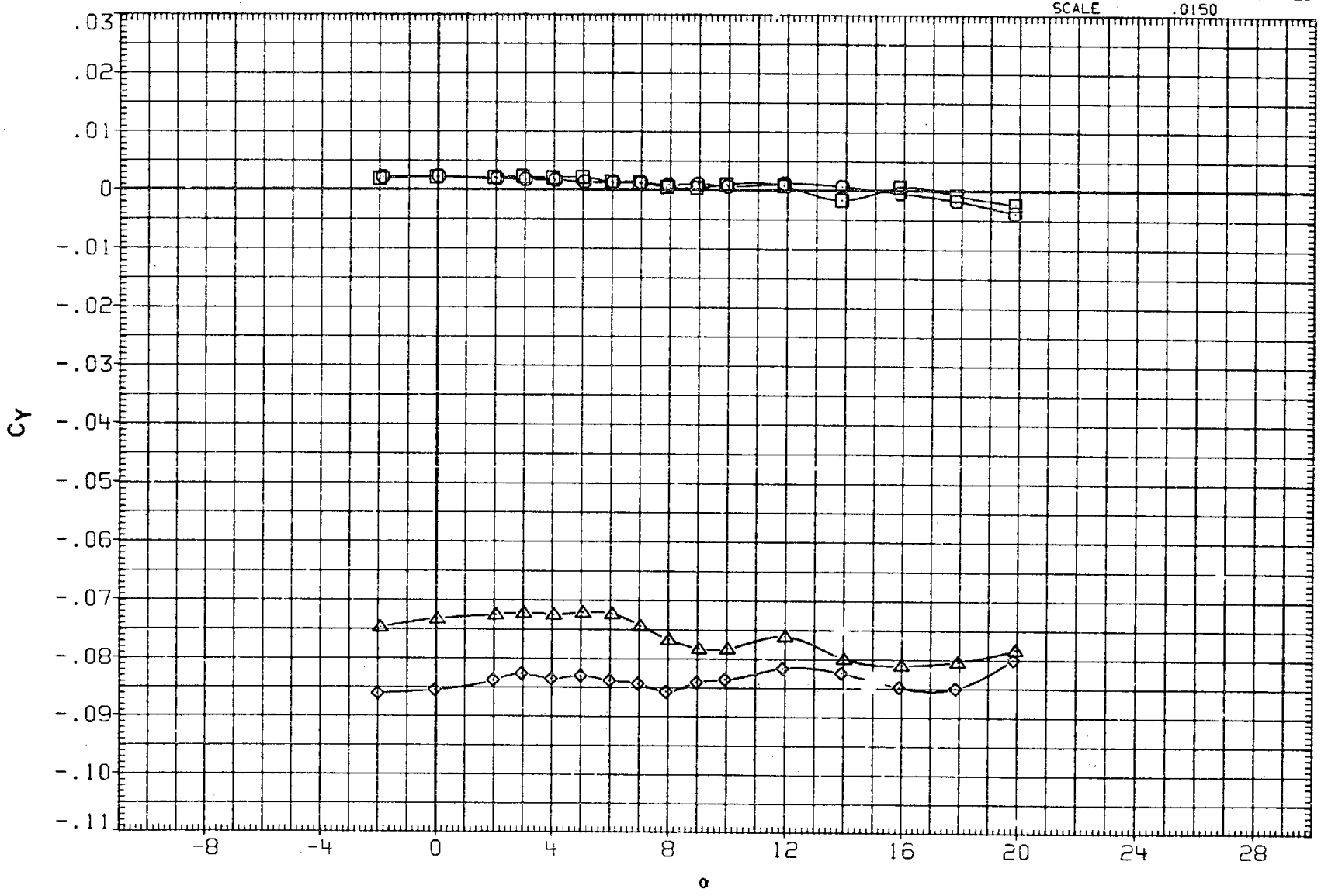

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	DATA NOT AVAILABLE	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

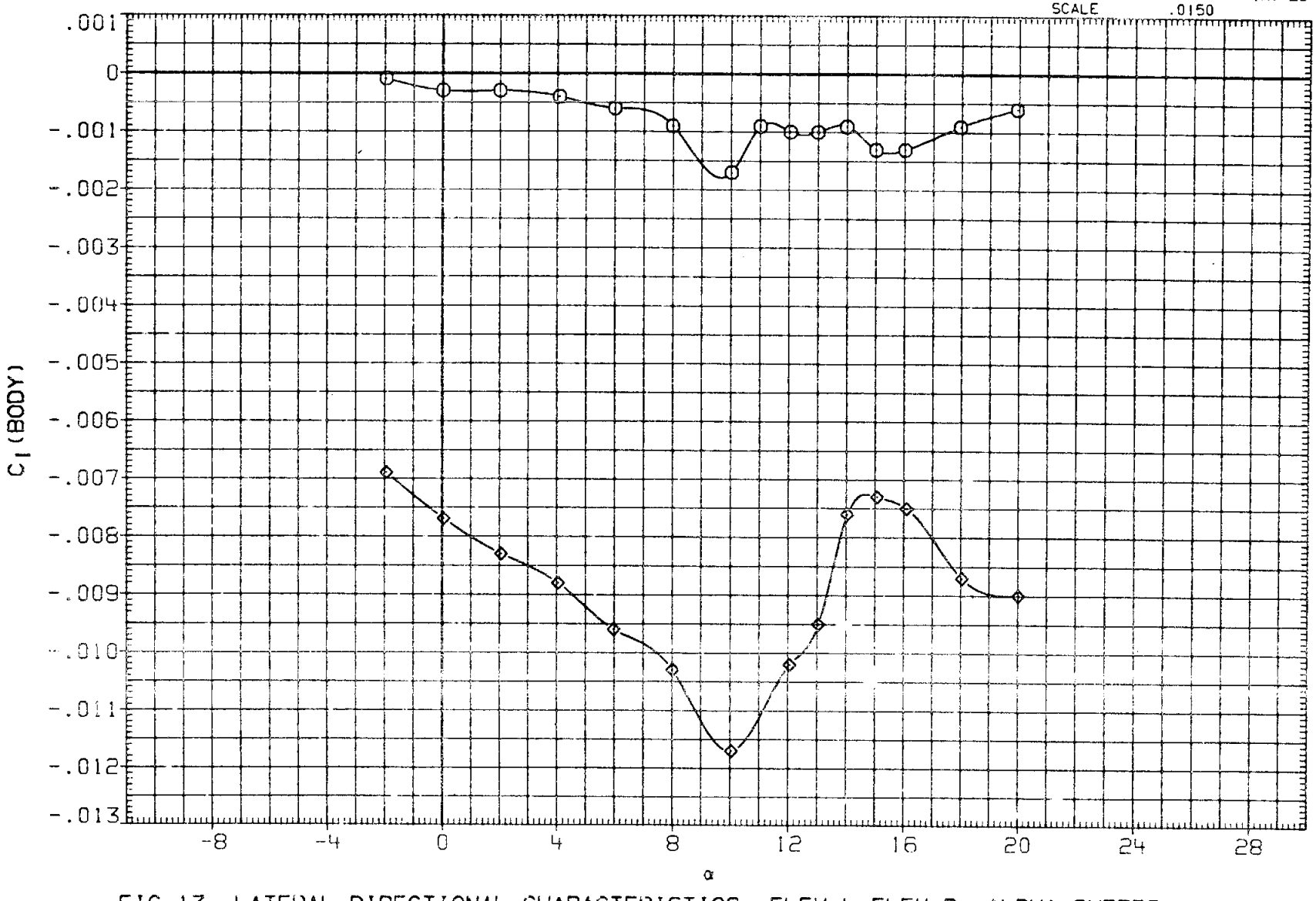

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	DATA NOT AVAILABLE	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

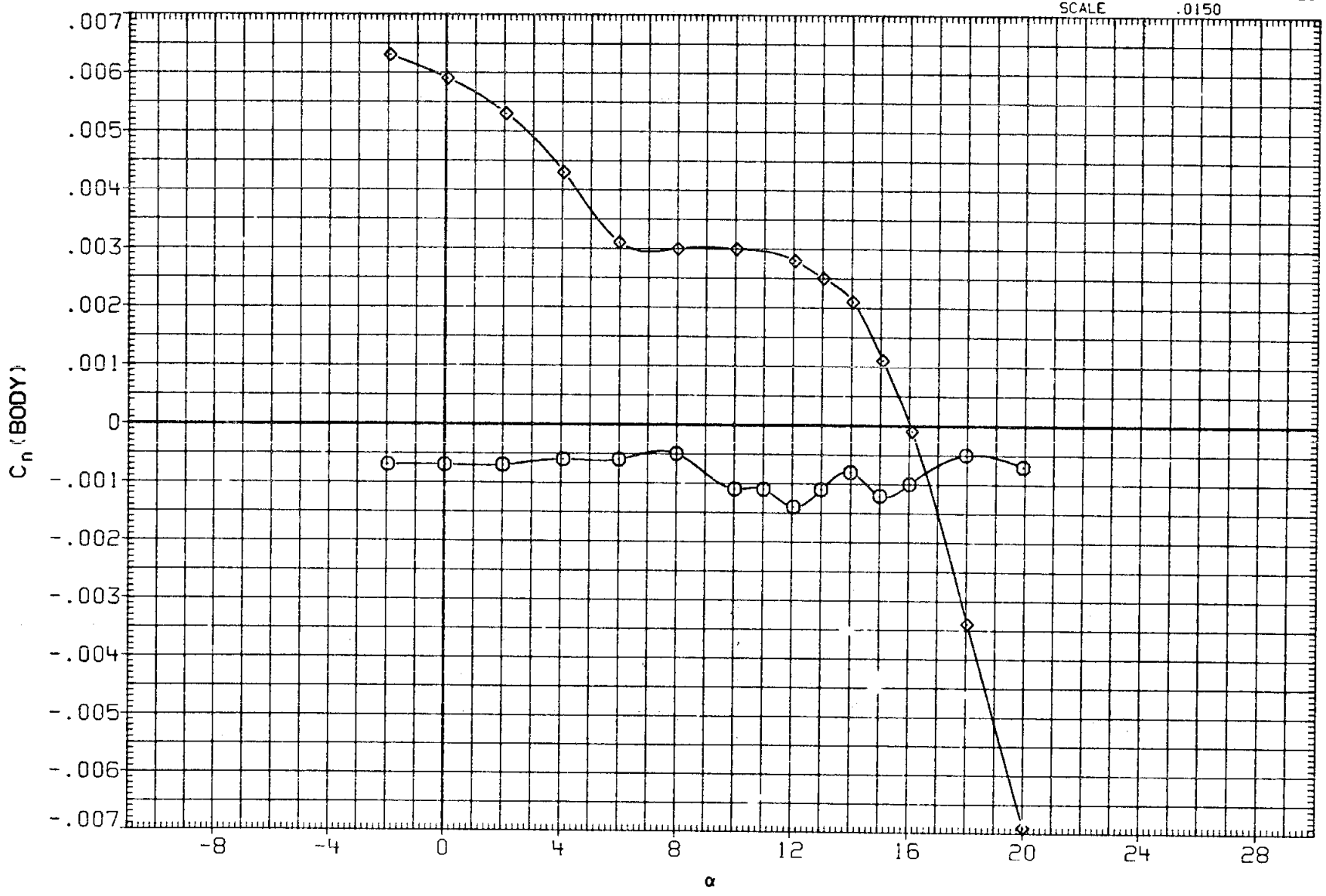

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPOERK	BETA	ELEVON
R2B080	○	ARC 200-1 11(LA77) OV101	.000	.000	55.000	.000	.000
R2B081	□	DATA NOT AVAILABLE	.000	.000	55.000	.000	-10.000
R2B082	◇	ARC 200-1 11(LA77) OV101	.000	.000	55.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

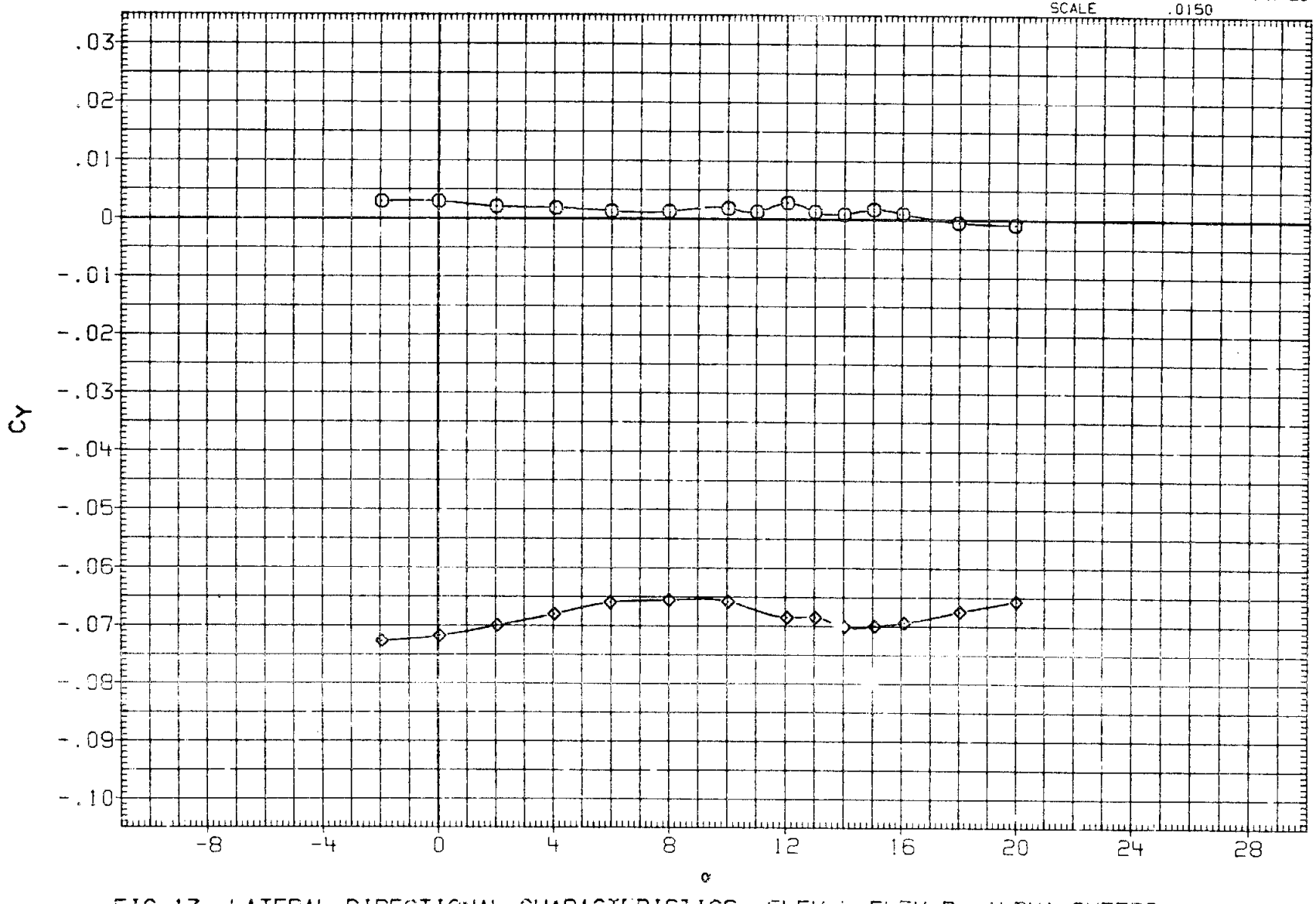

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B184	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B185	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

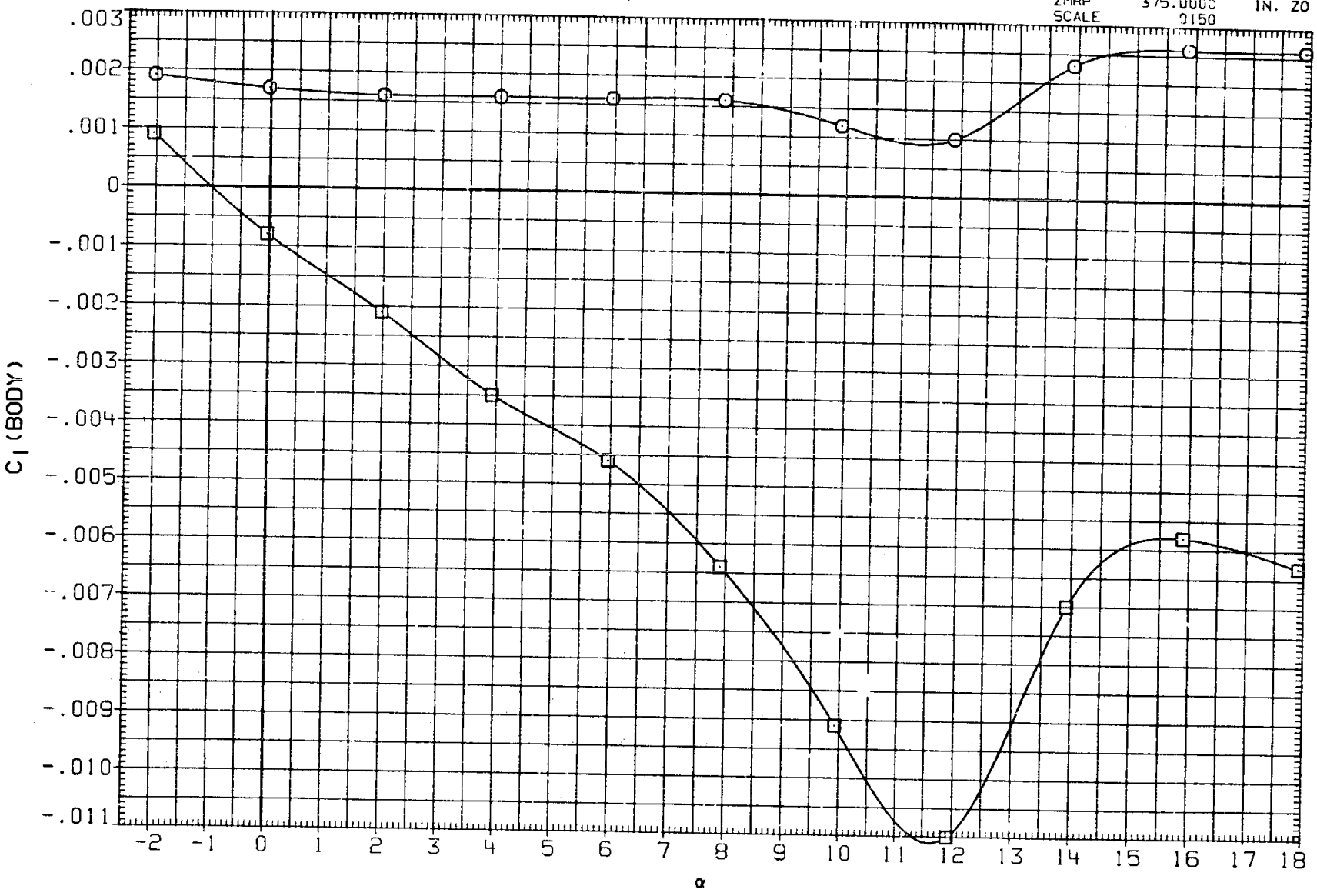

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B184	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B185	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

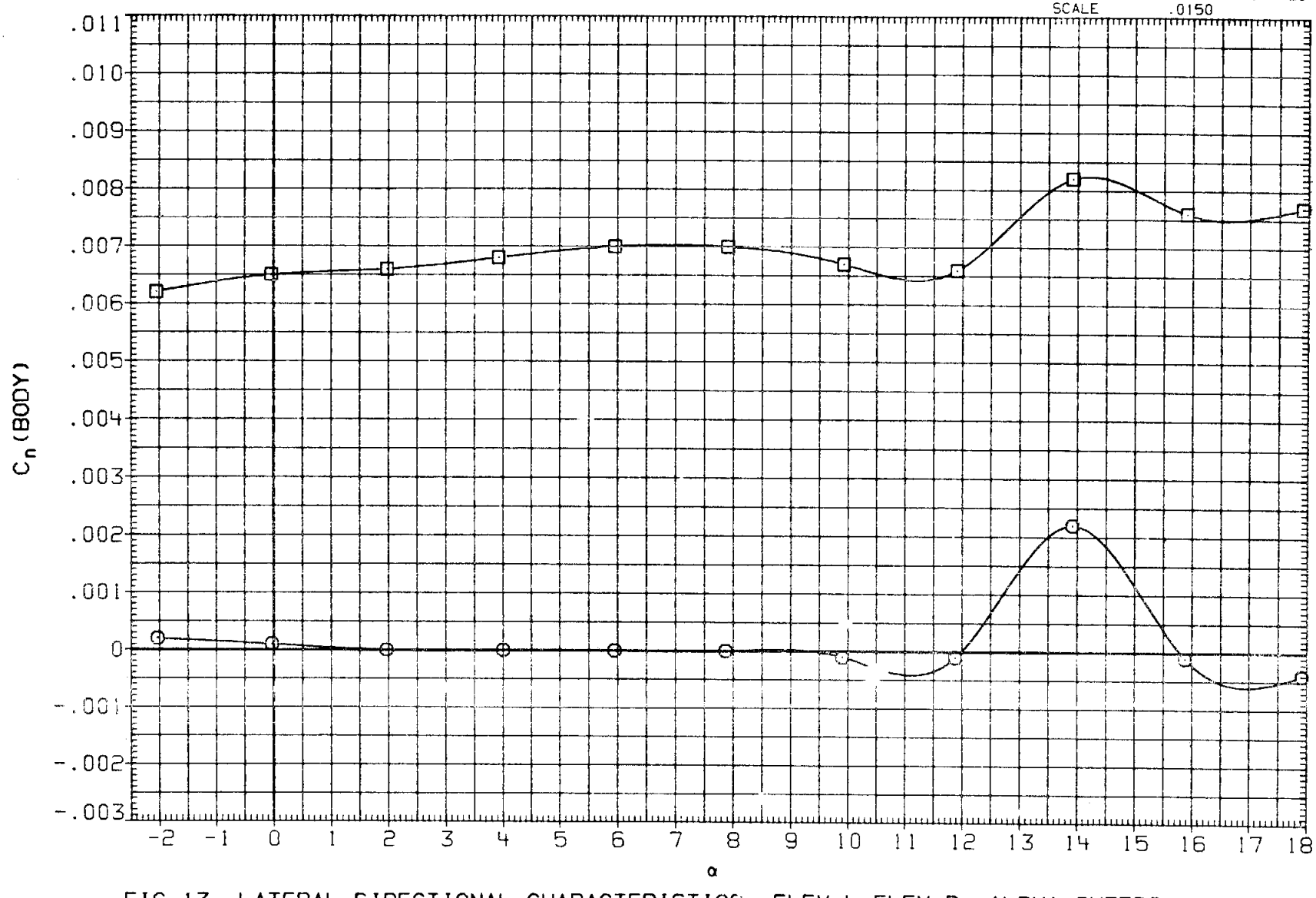

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28184	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R28185	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

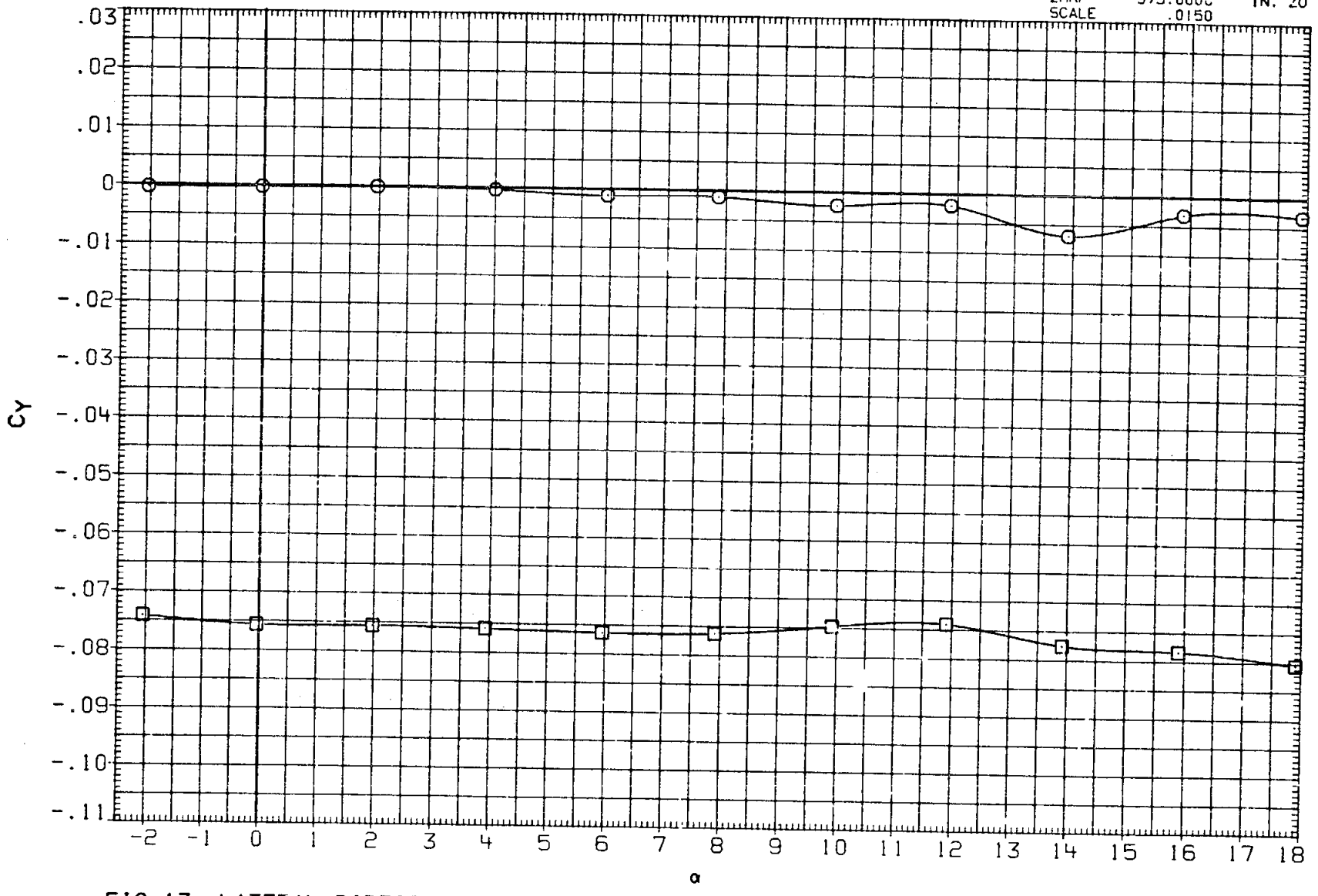

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R28188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

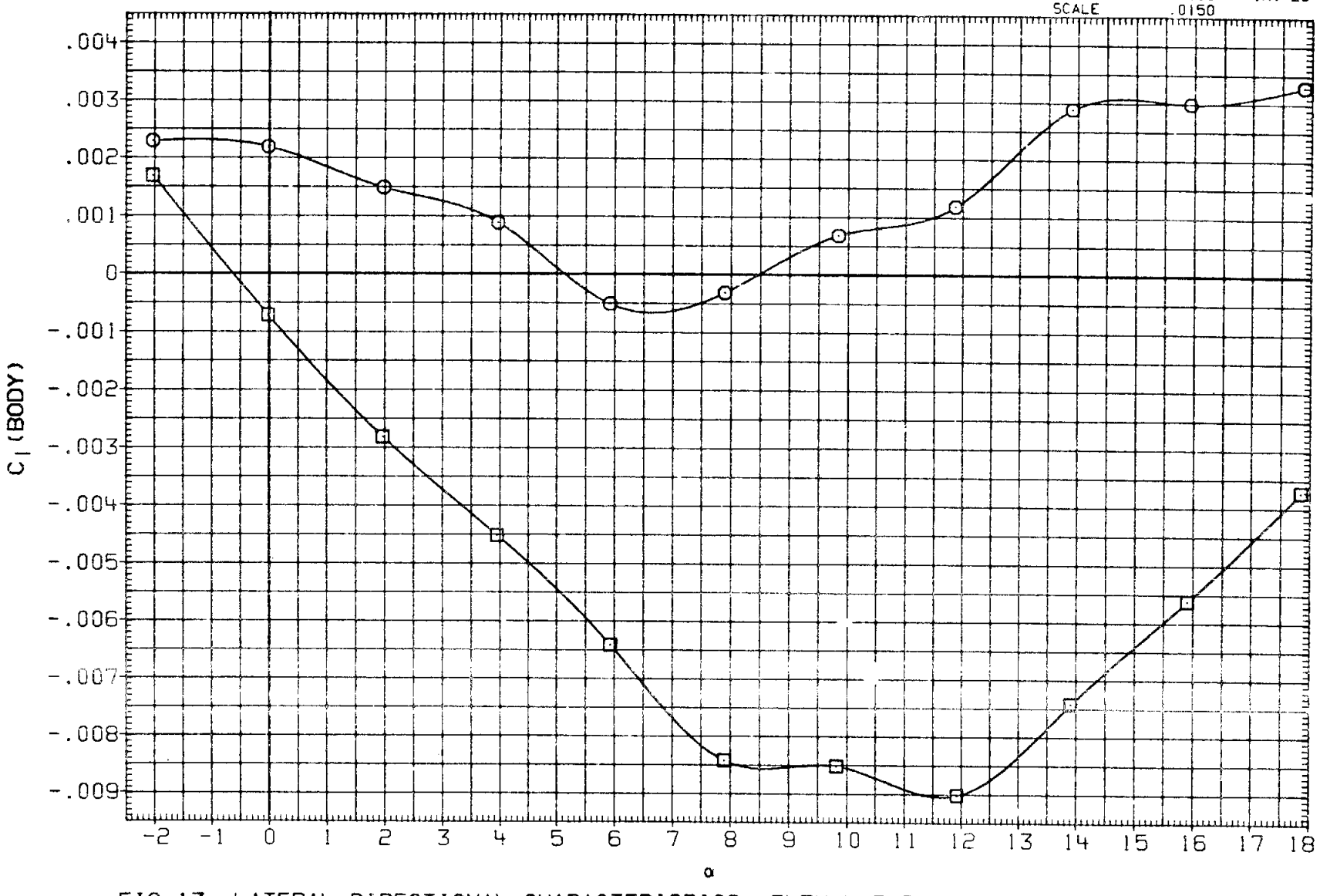

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

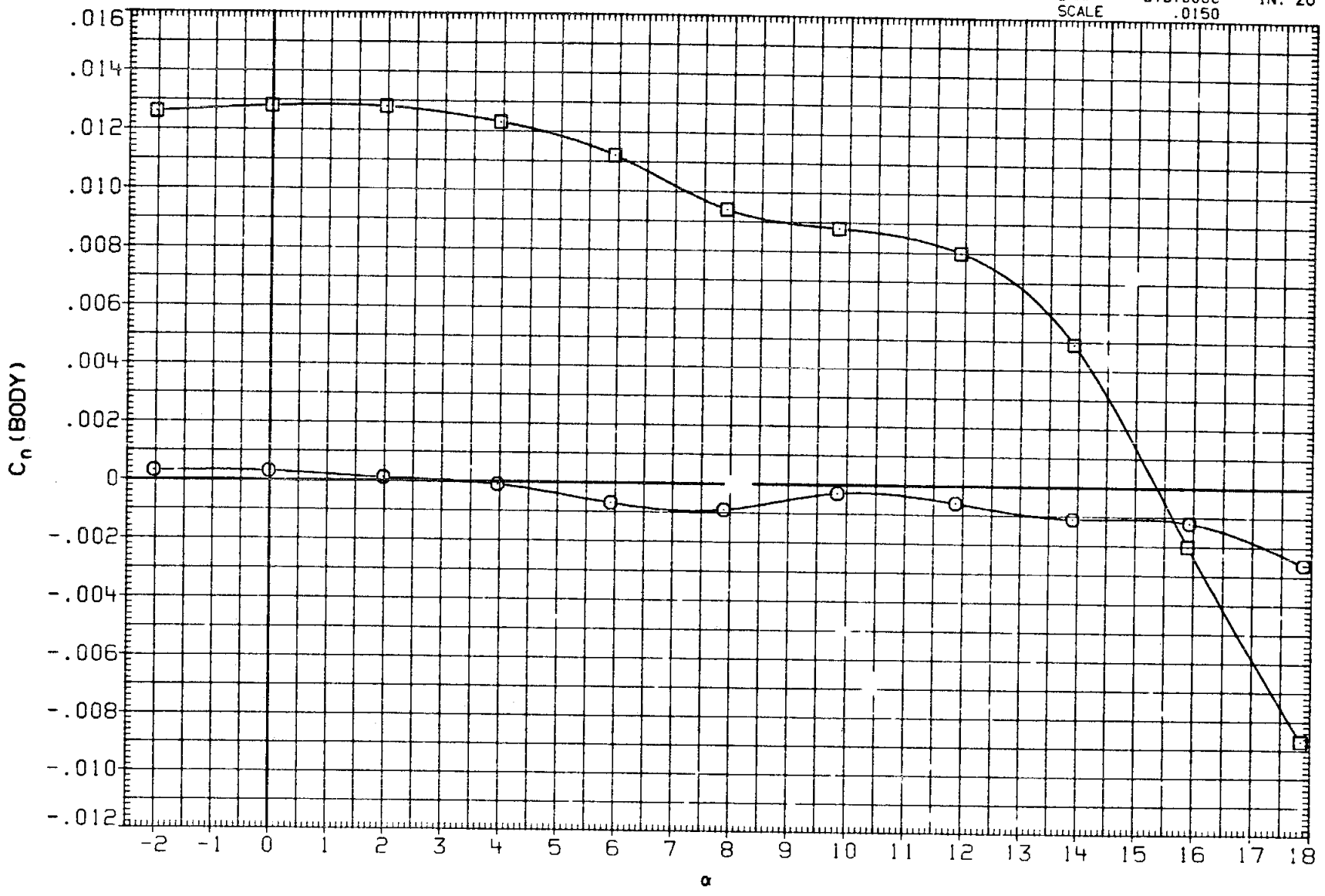

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

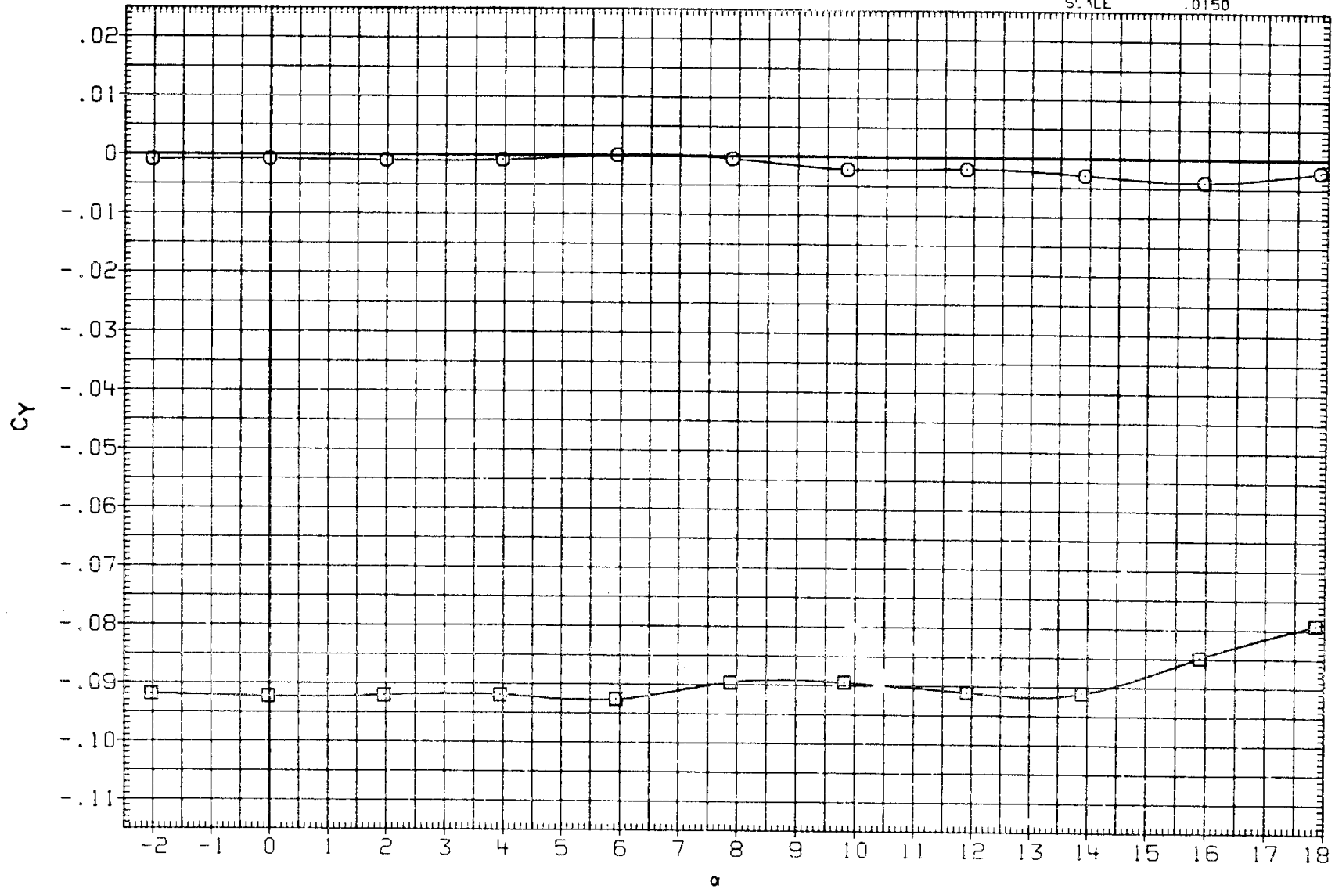

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

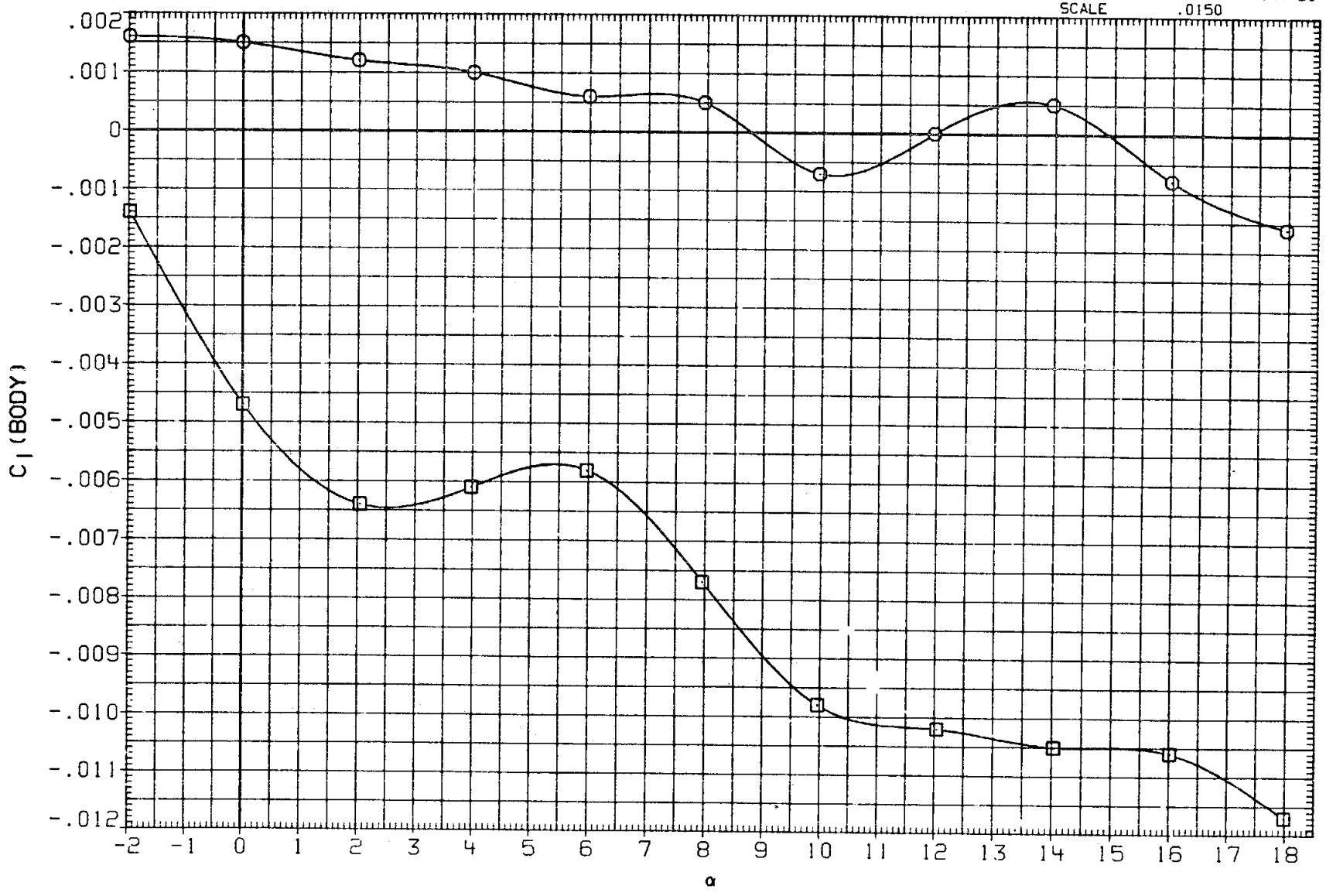

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

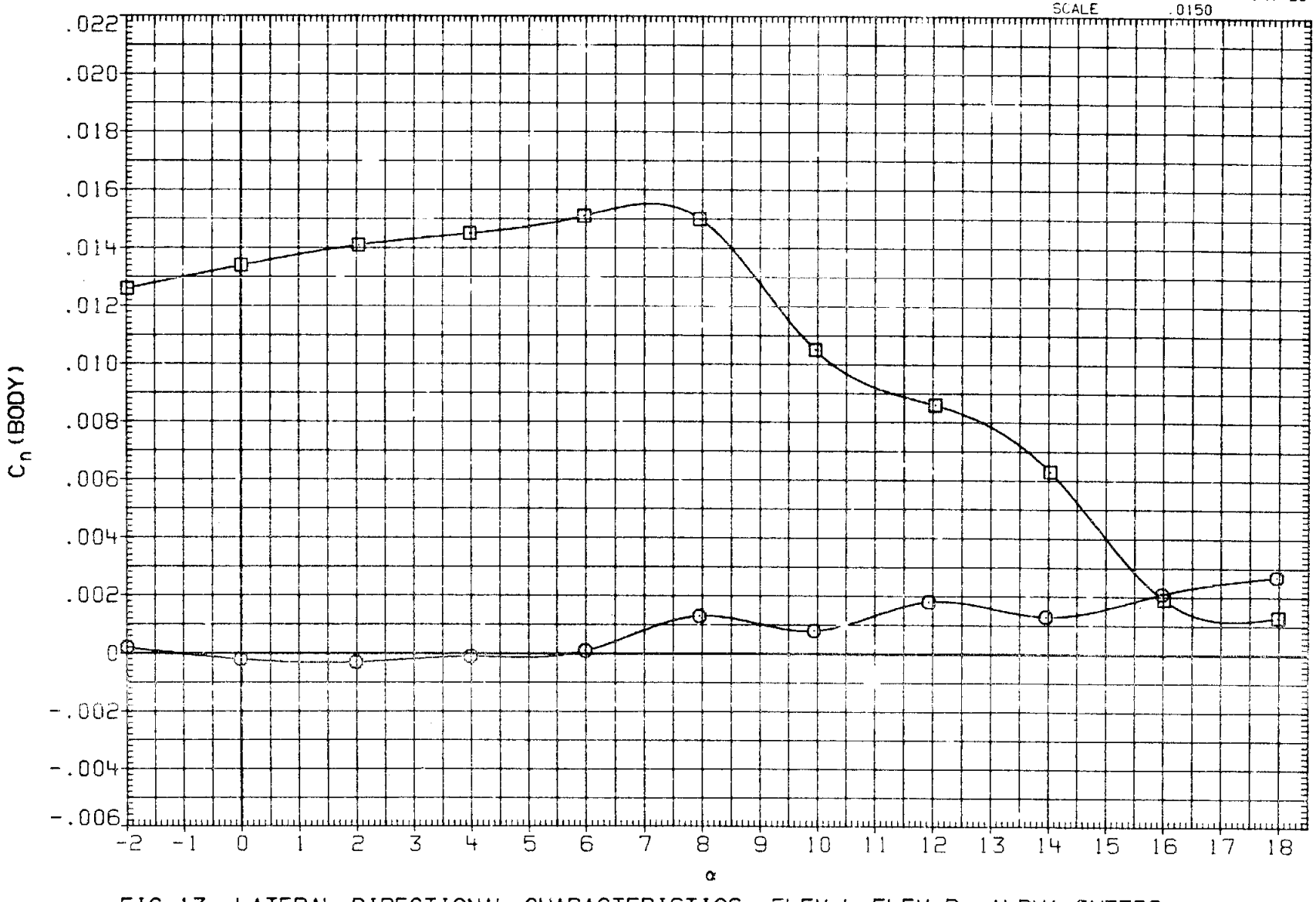

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

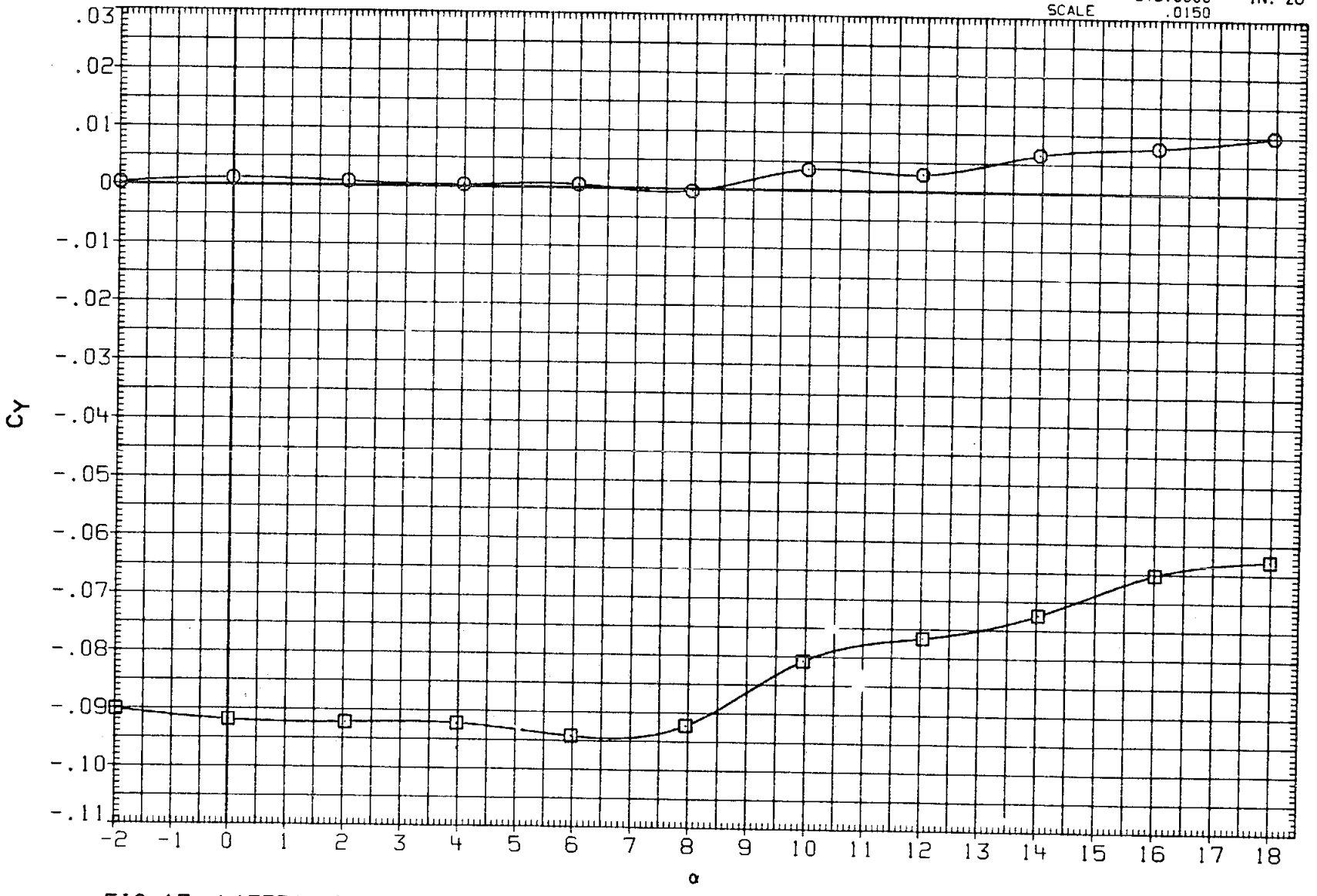

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

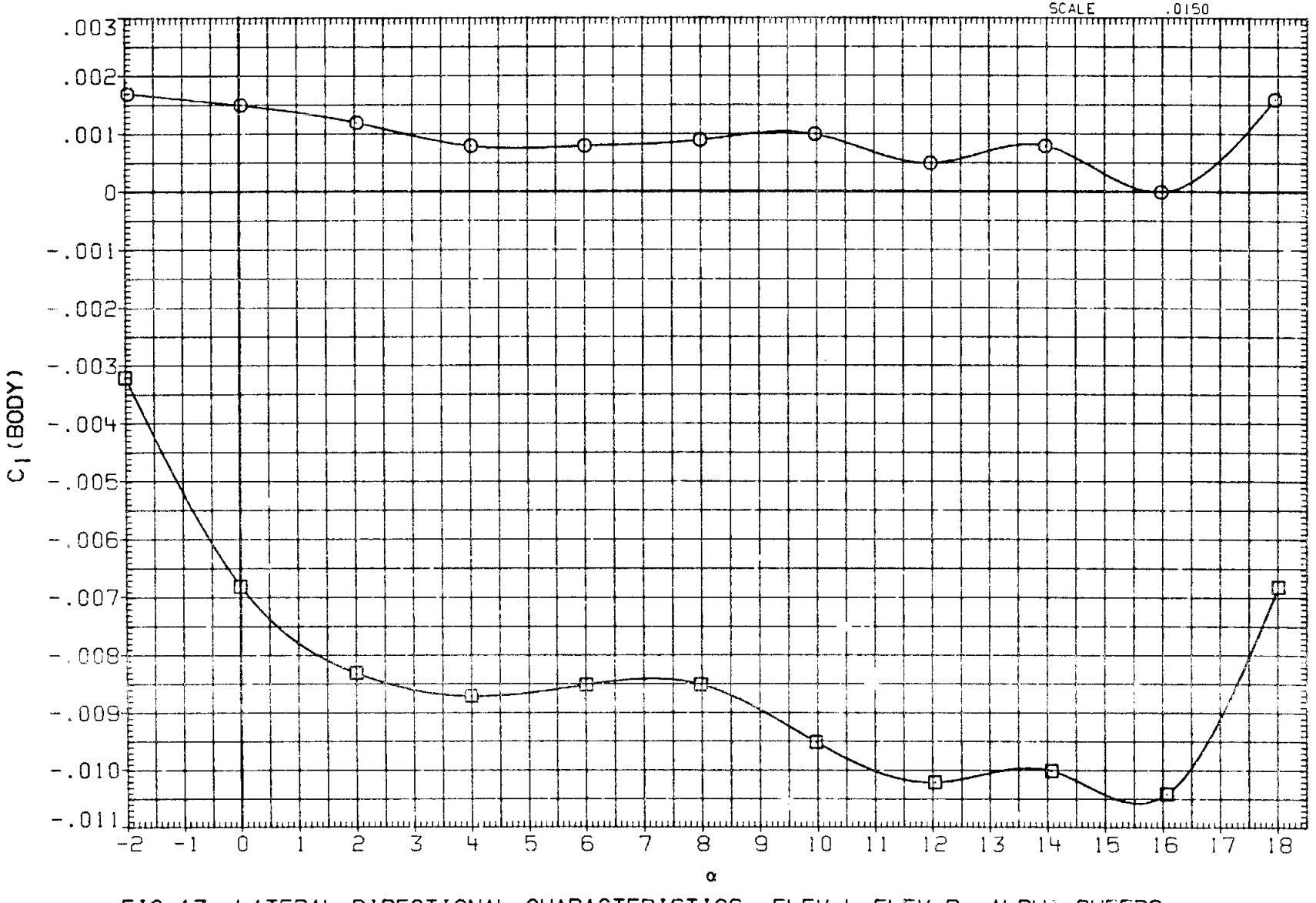

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B187	○	ARC 200-1 11(LA77) OV101
R2B188	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	70.000	.000	.000
.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

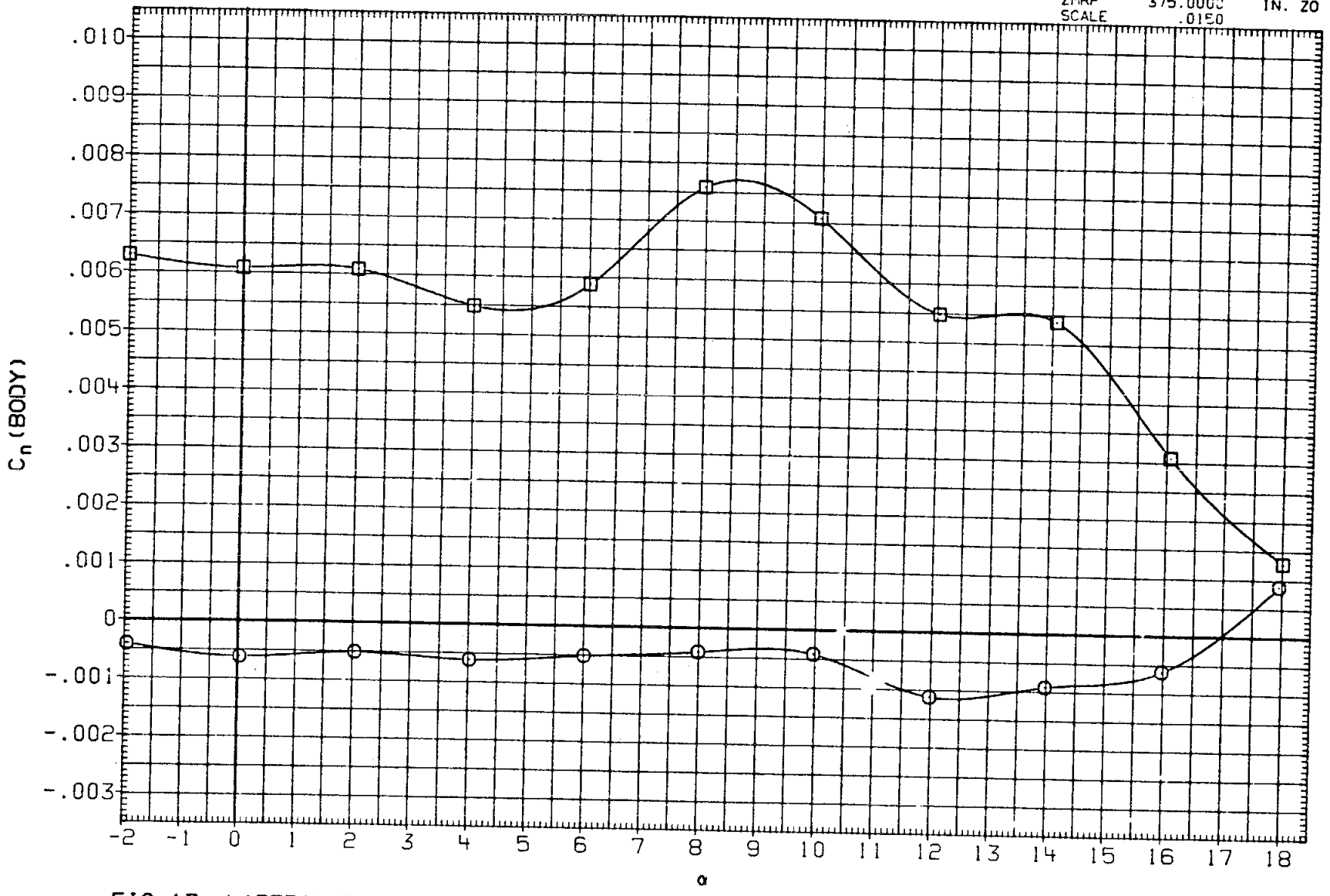

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R2B187	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R2B188	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

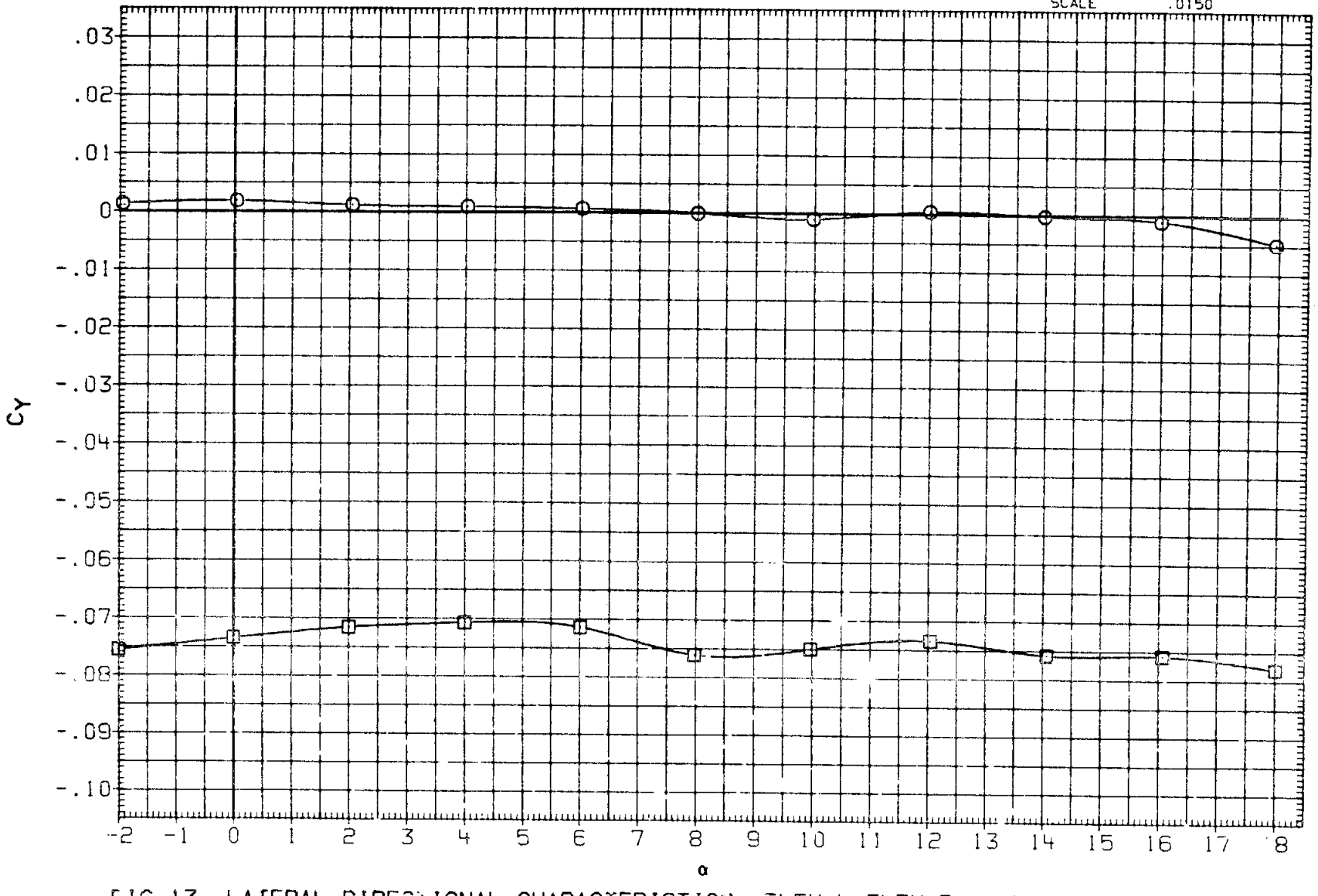

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R28184	○	ARC 200-1 11(LA77) OV101
R28185	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	70.000	.000	.000
.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

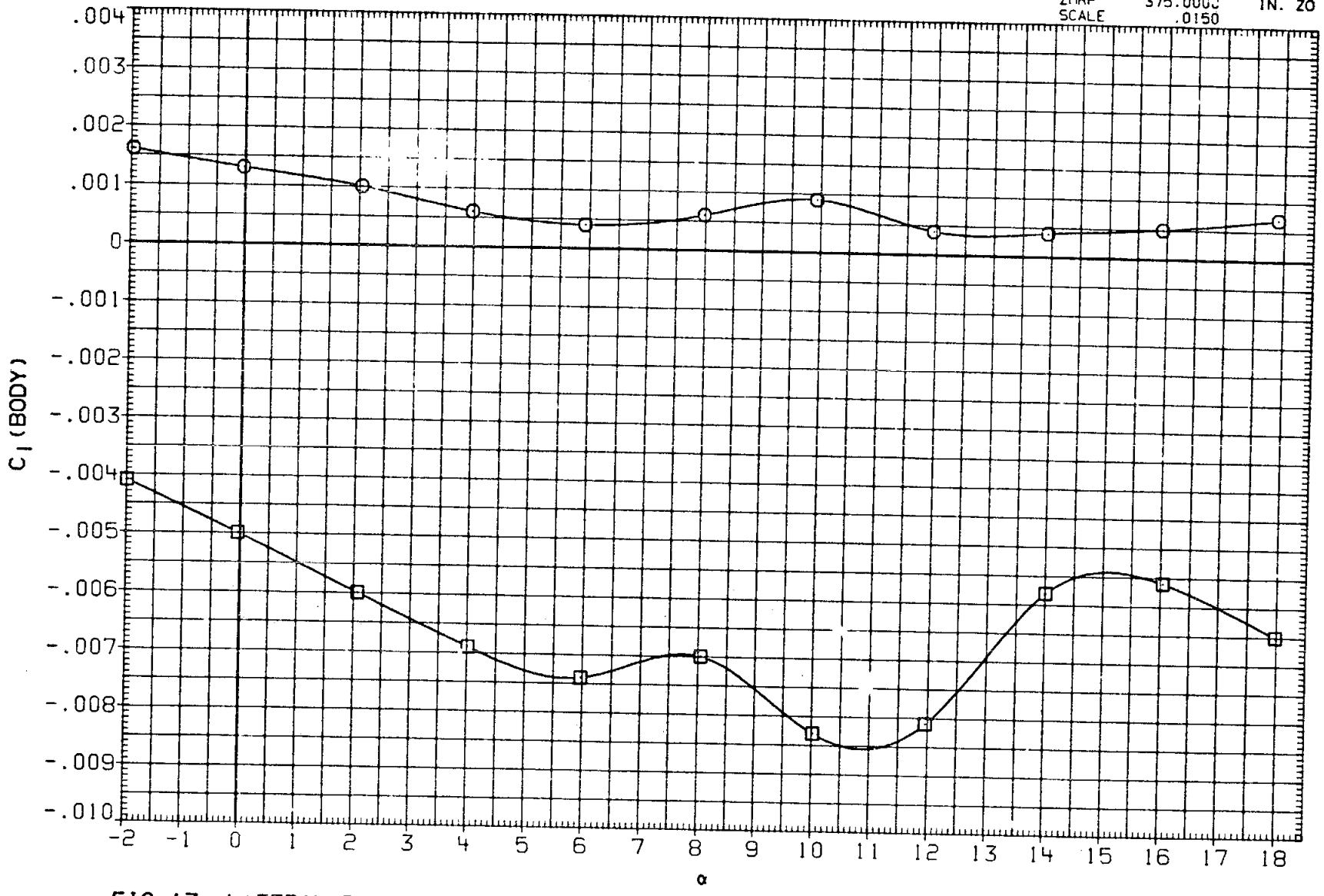

FIG 13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	AILRON	RUDDER	SPDBRK	BETA	ELEVON
R28184	○	ARC 200-1 11(LA77) OV101	.000	.000	70.000	.000	.000
R28185	□	ARC 200-1 11(LA77) OV101	.000	.000	70.000	4.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

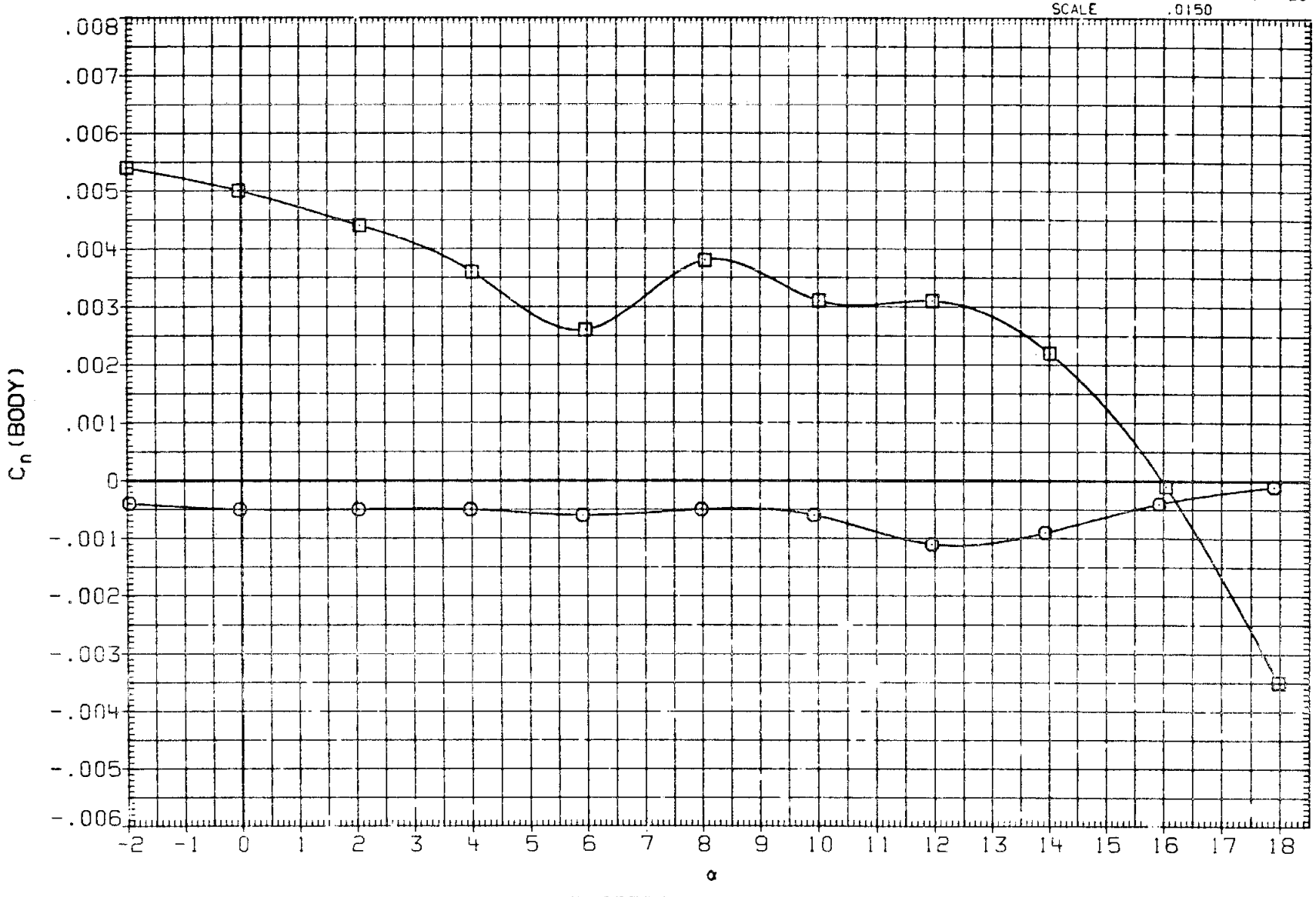

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2B184	○	ARC 200-1 11(LA77) OV101
R2B185	□	ARC 200-1 11(LA77) OV101

AILRON	RUDDER	SPDBRK	BETA	ELEVON
.000	.000	70.000	.000	.000
.000	.000	70.000	4.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

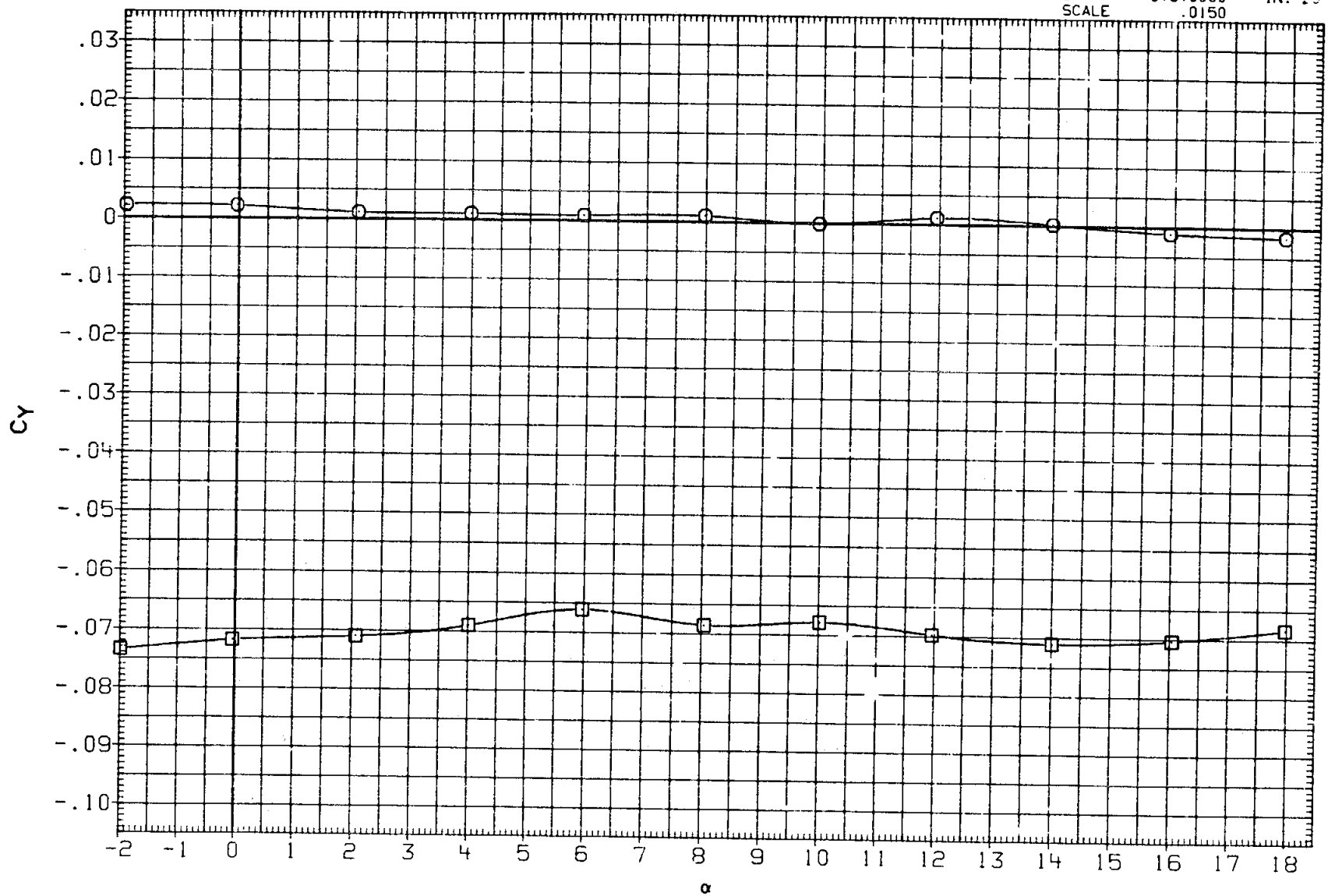

FIG.13 LATERAL DIRECTIONAL CHARACTERISTICS, ELEV-L=ELEV-R, ALPHA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPOBRK	BETA	BDFLAP
R2B018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B024	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B143	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B155	◁	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B157	▷	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

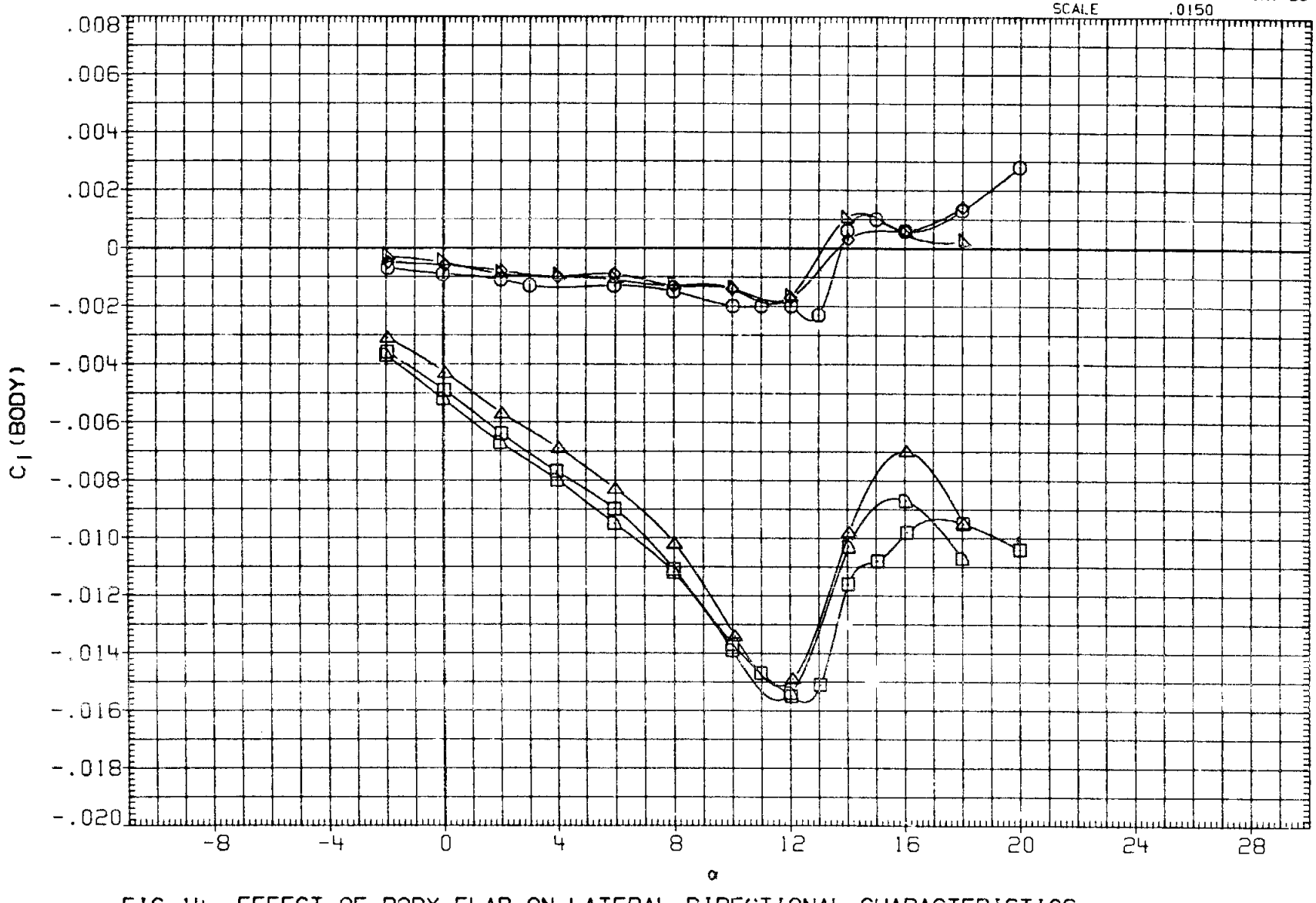

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B024	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B143	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B155	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B157	◗	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

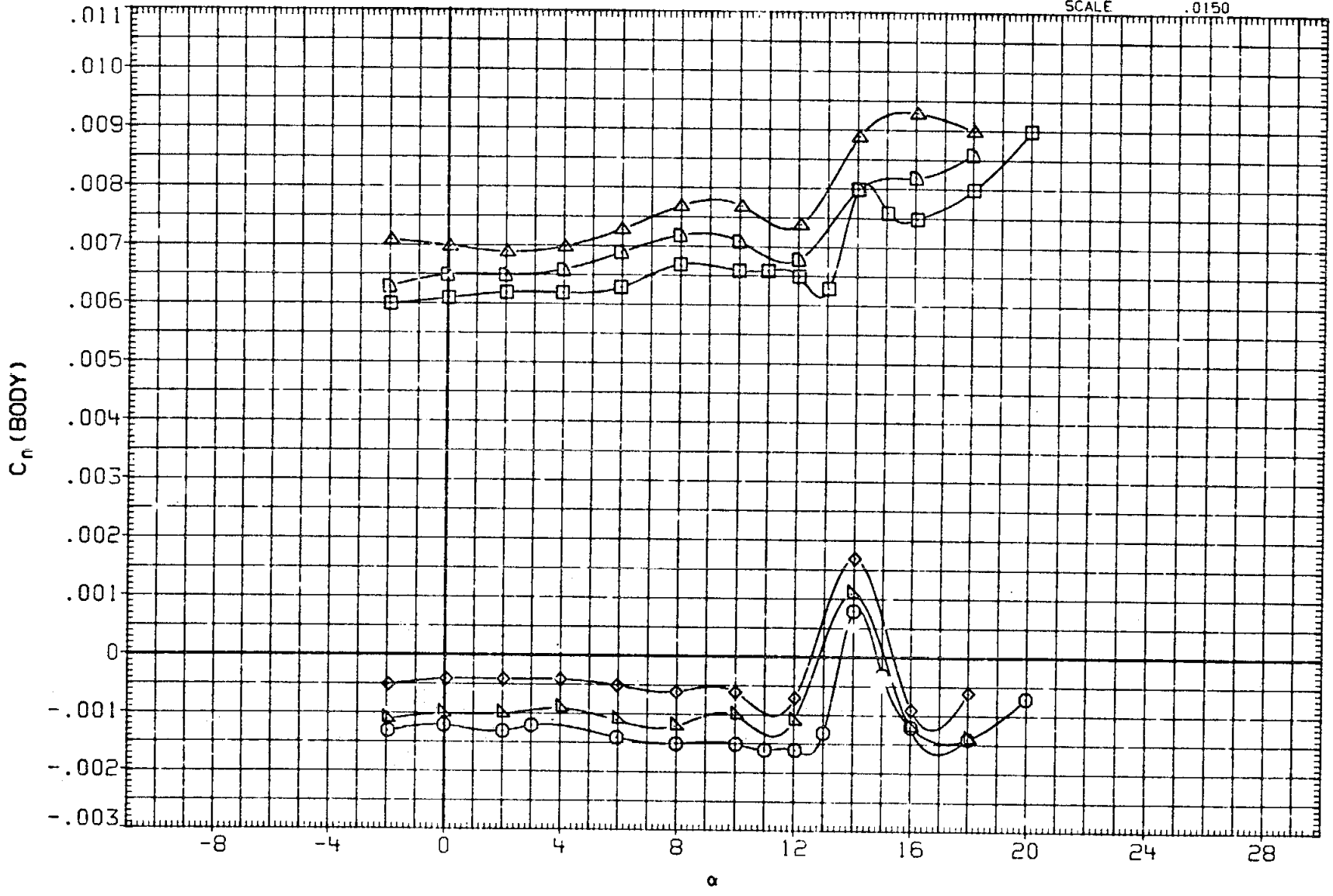

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B018	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B024	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B143	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B155	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B157	◻	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

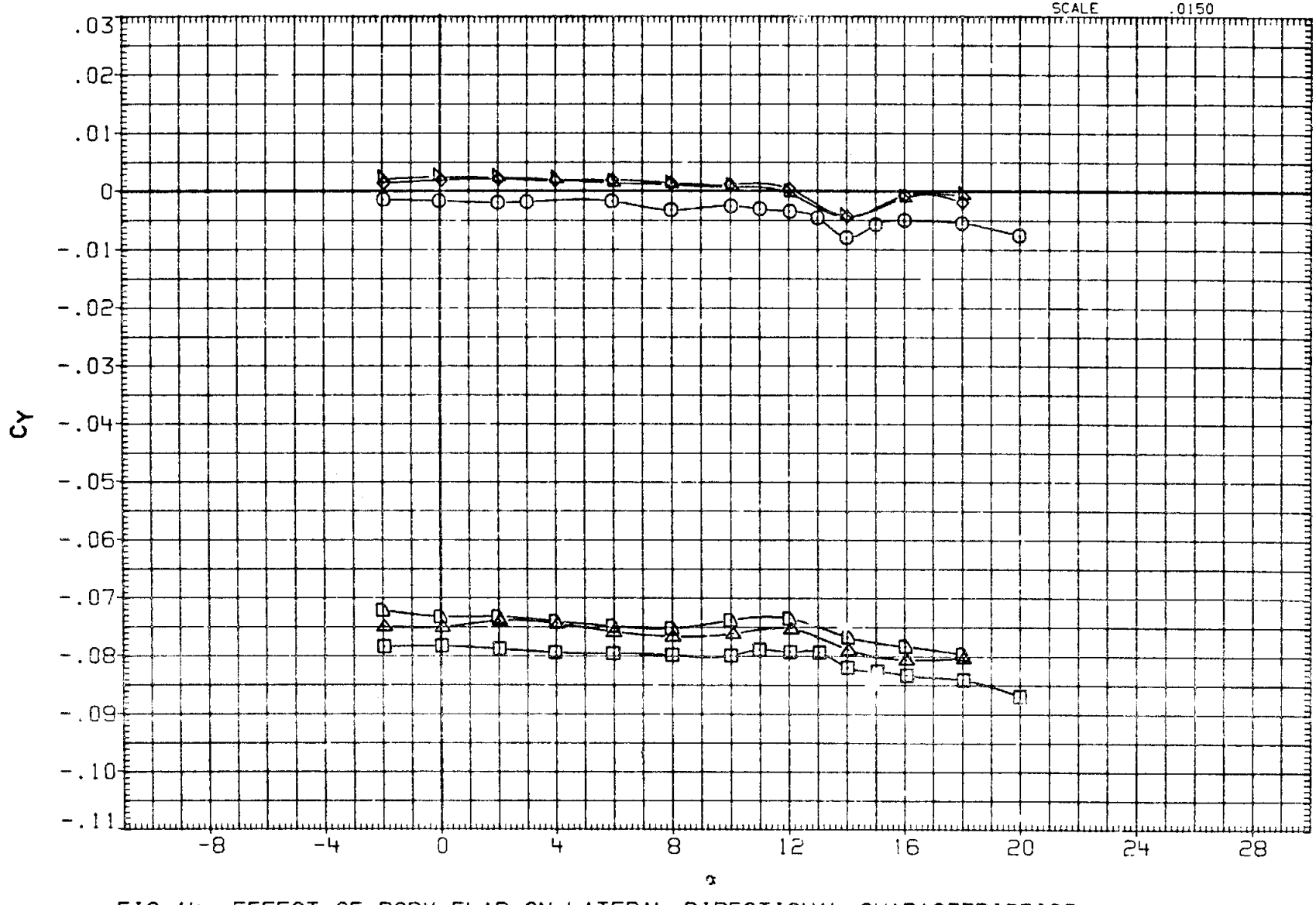

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R28145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R28150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R28161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R28166	D	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

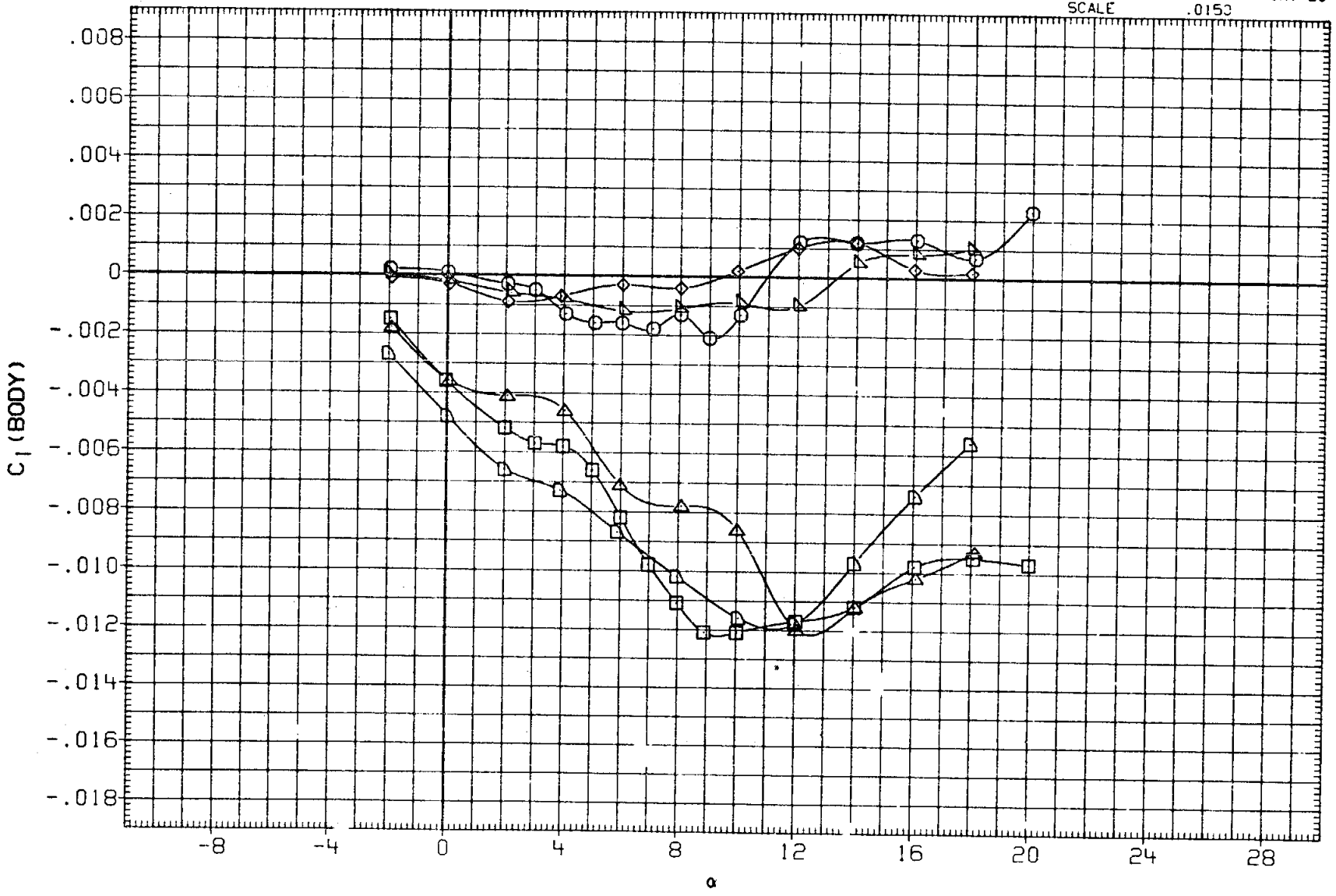

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◁	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	▷	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

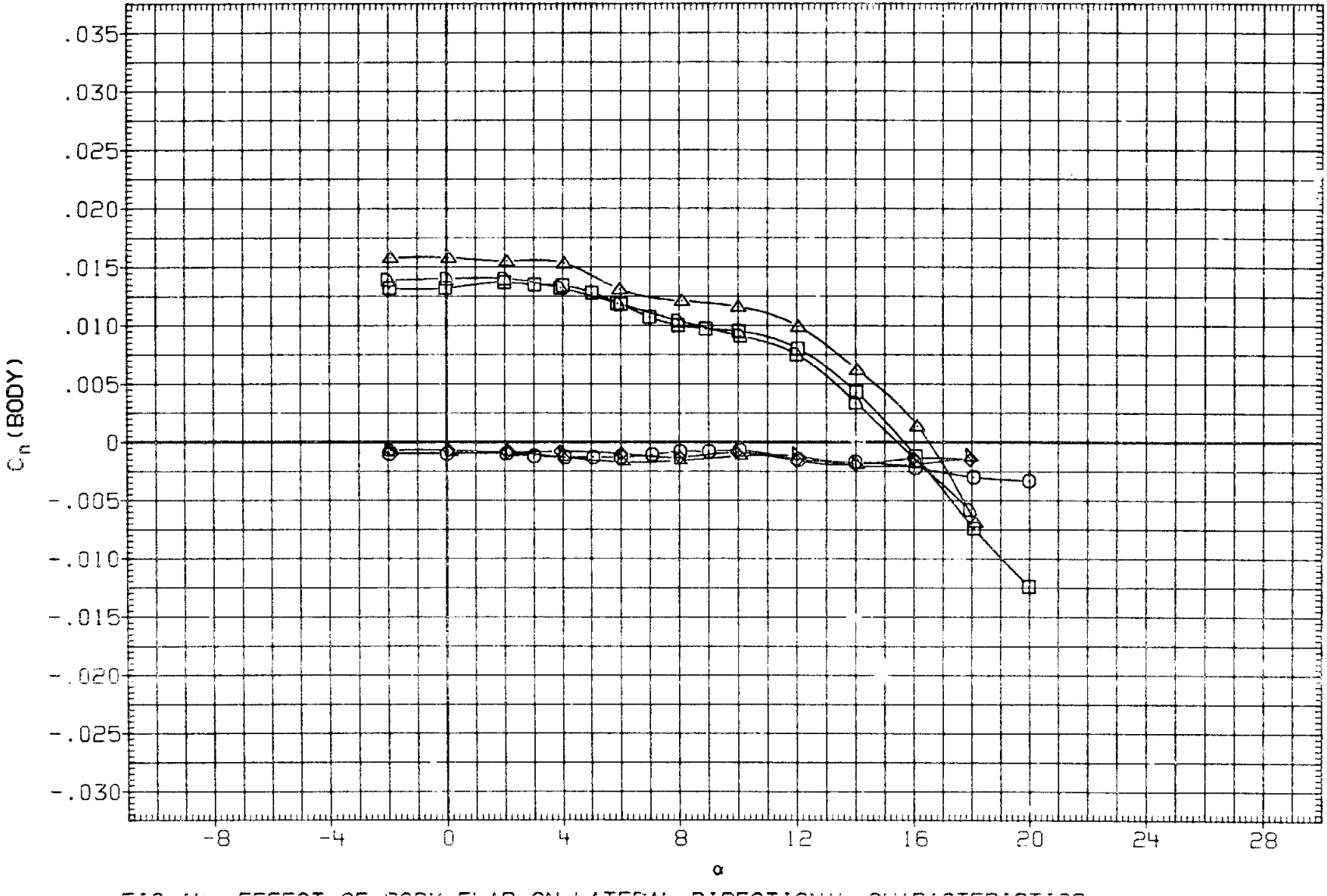

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	◻	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

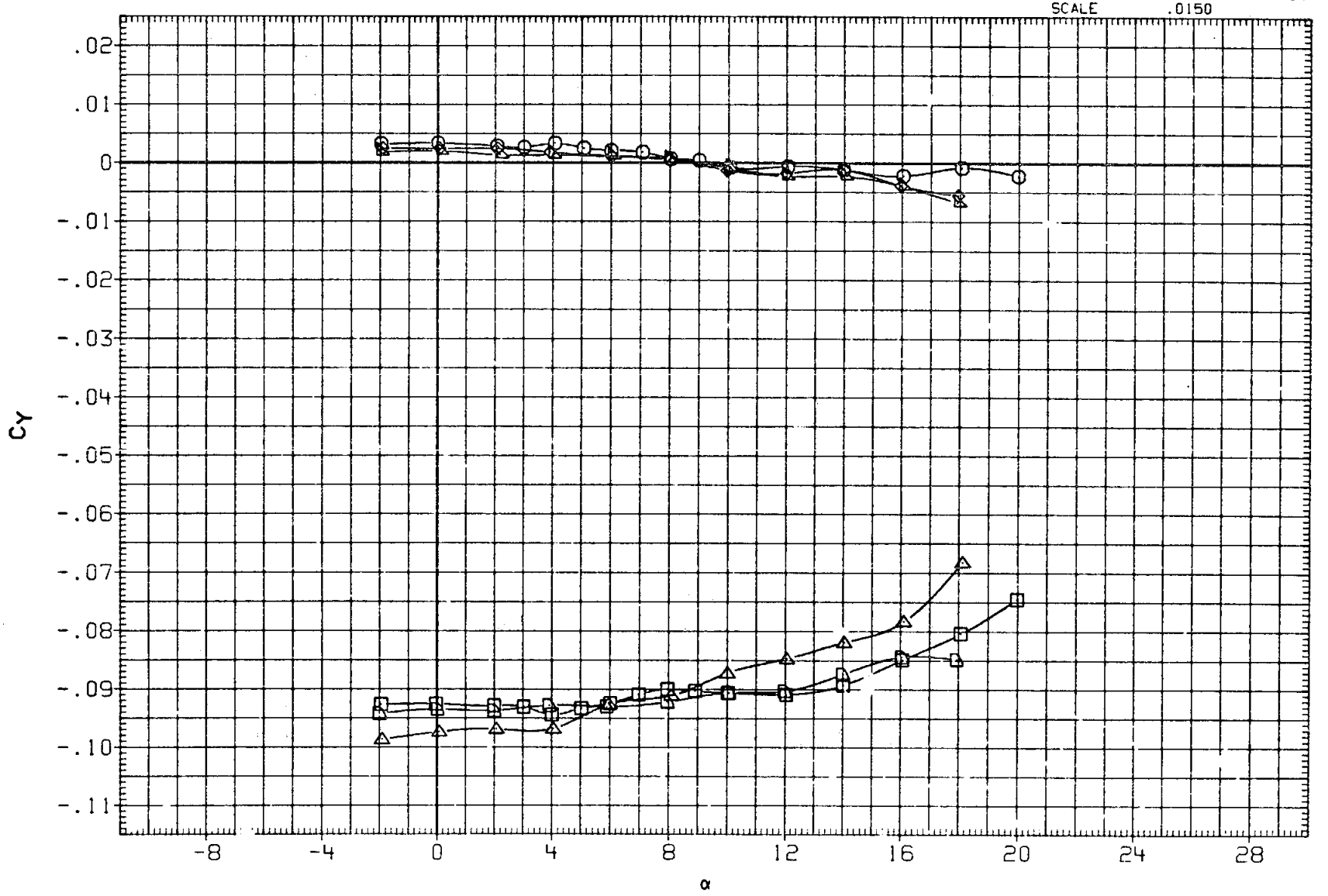

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R28145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R28150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R28161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R28166	◸	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

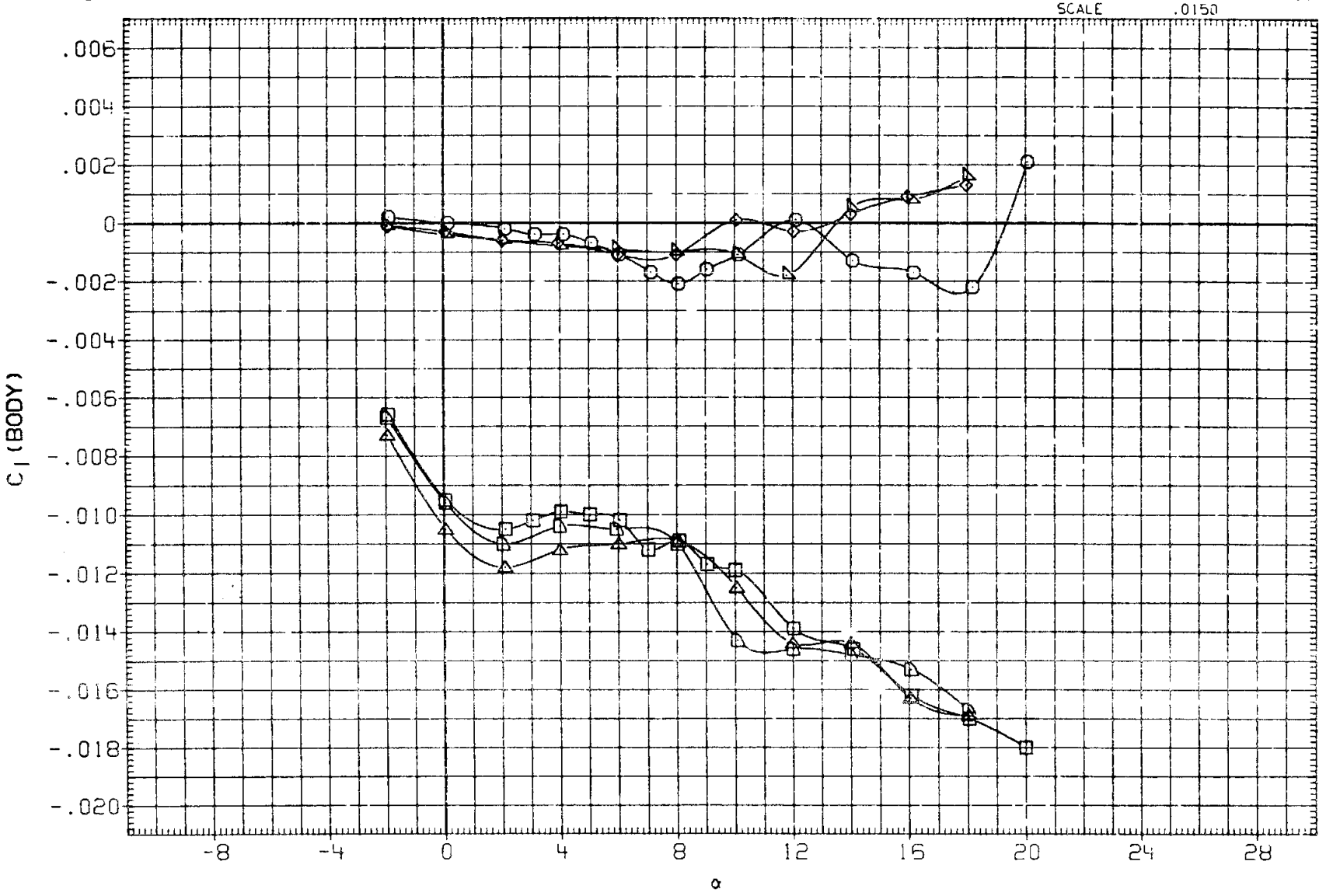

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	D	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

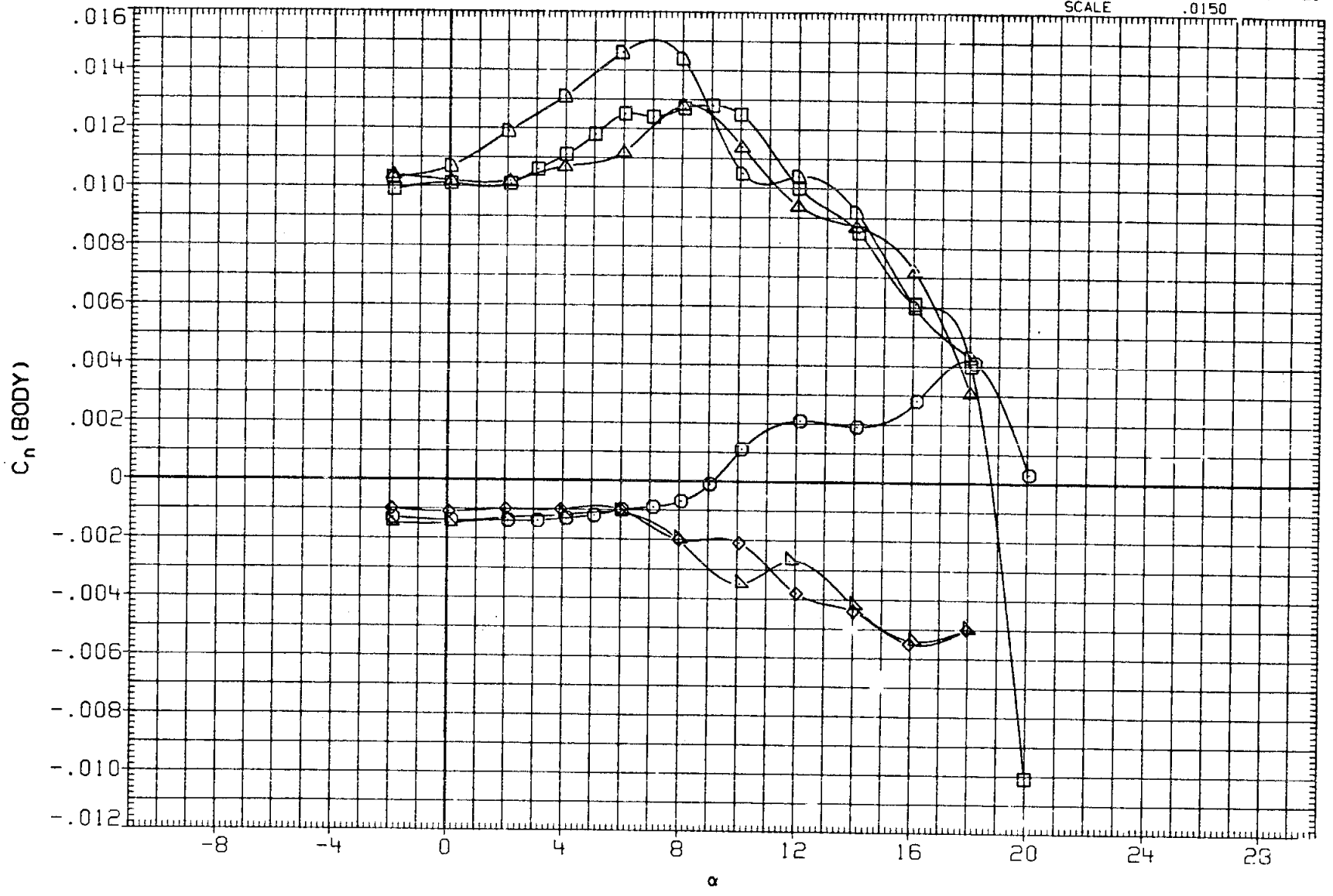

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	⬠	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

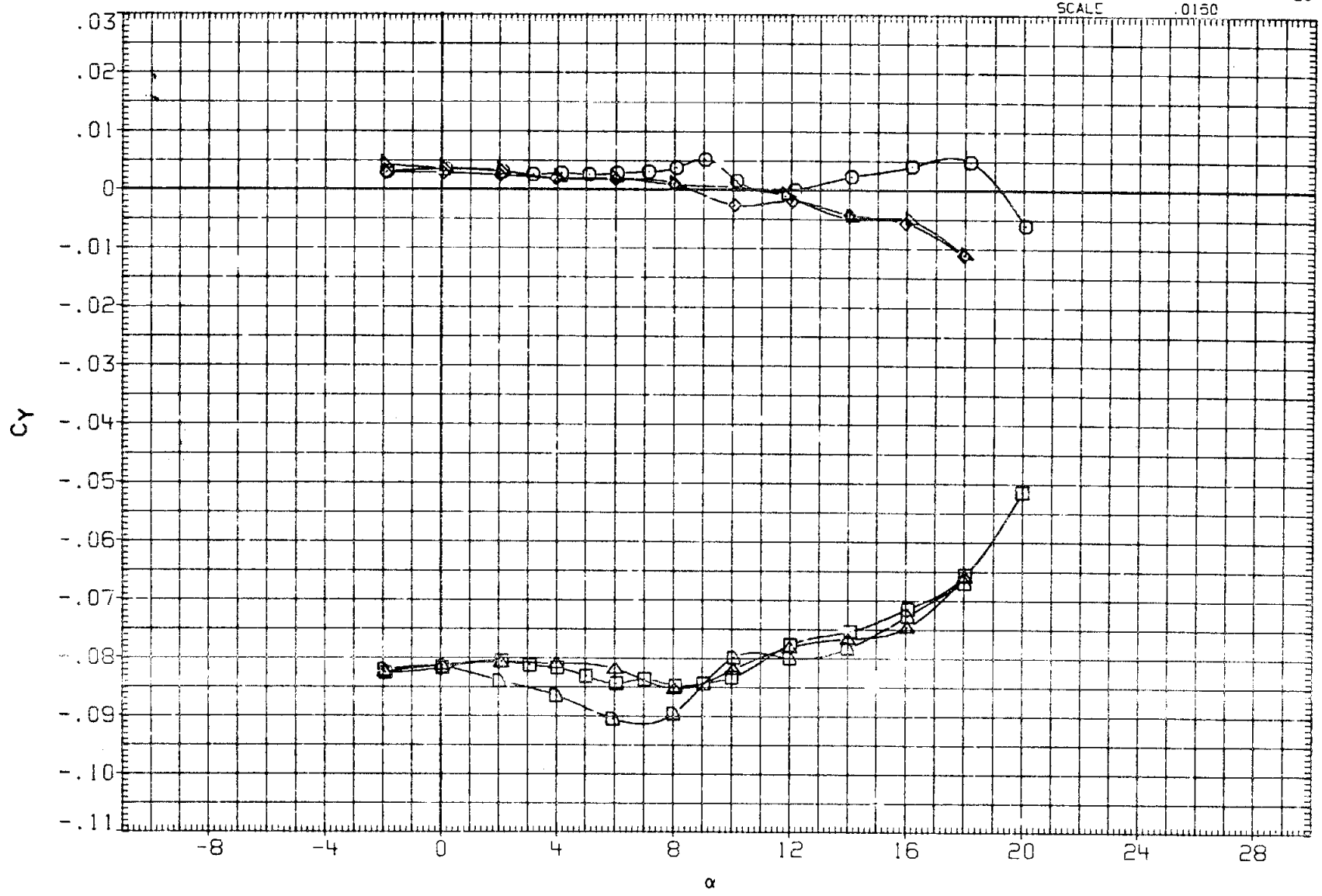

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R28145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R28150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R28161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R28166	◗	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

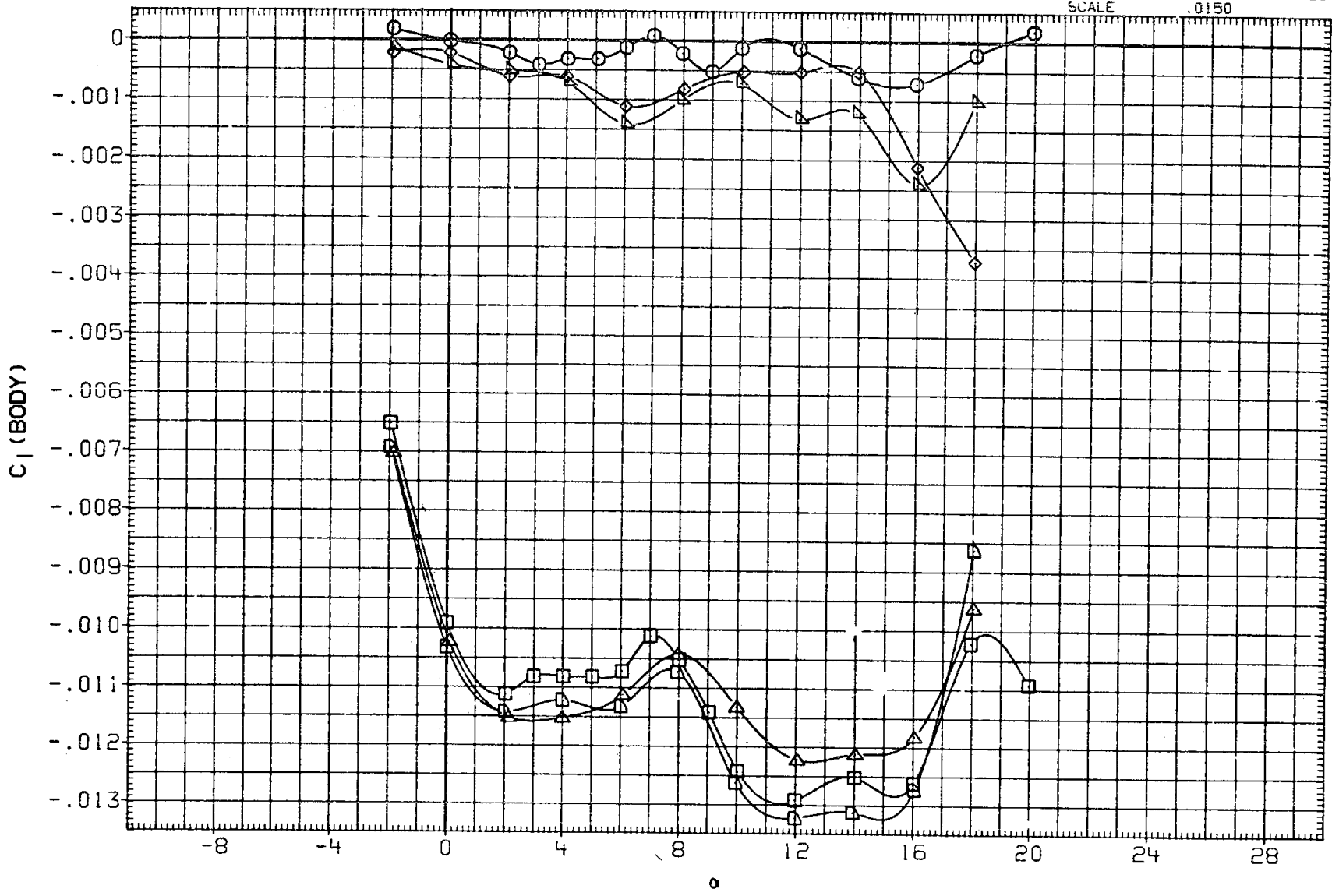

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	BDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	◻	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

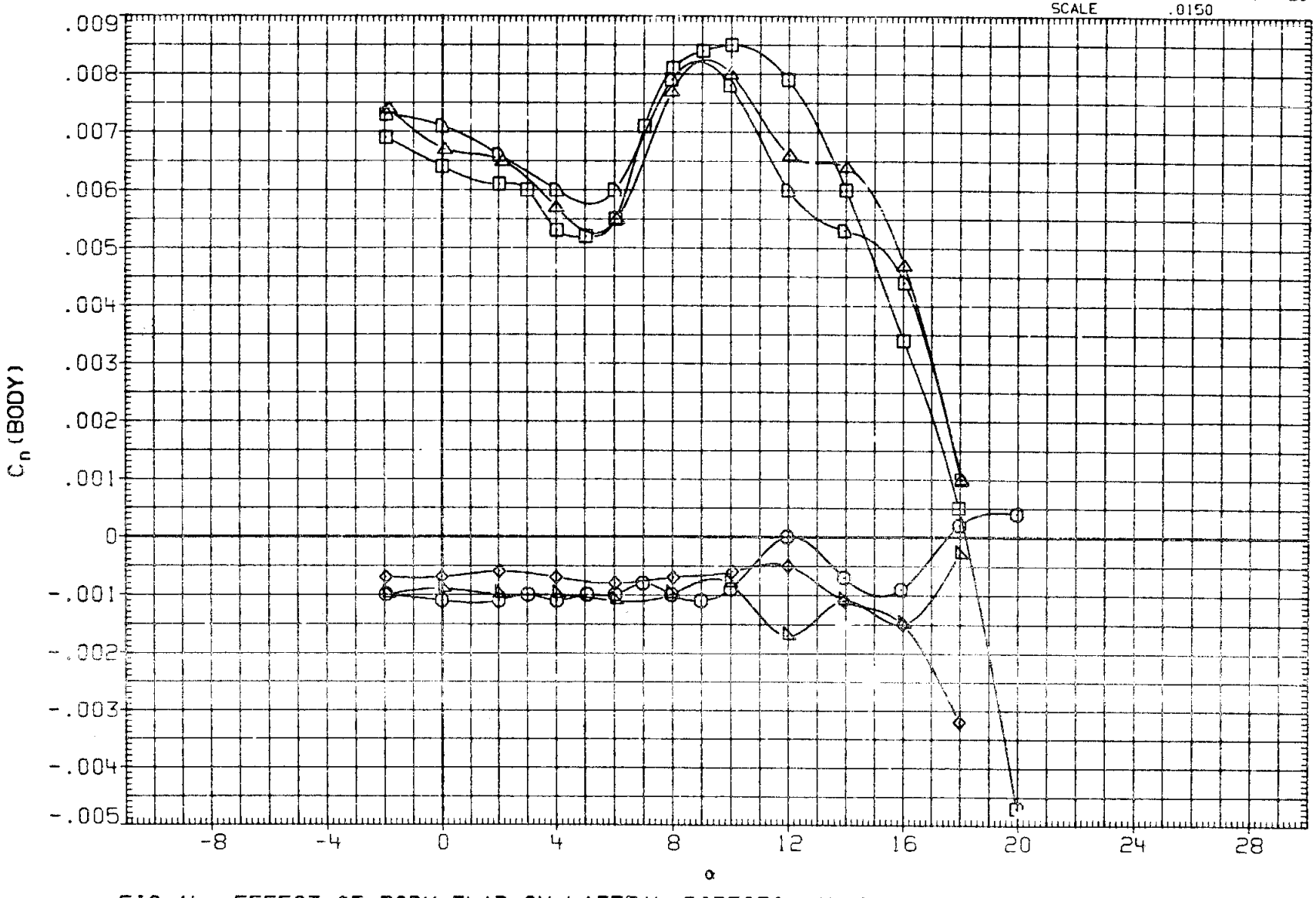

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B145	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B150	△	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	-11.700
R2B161	◺	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B166	◻	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

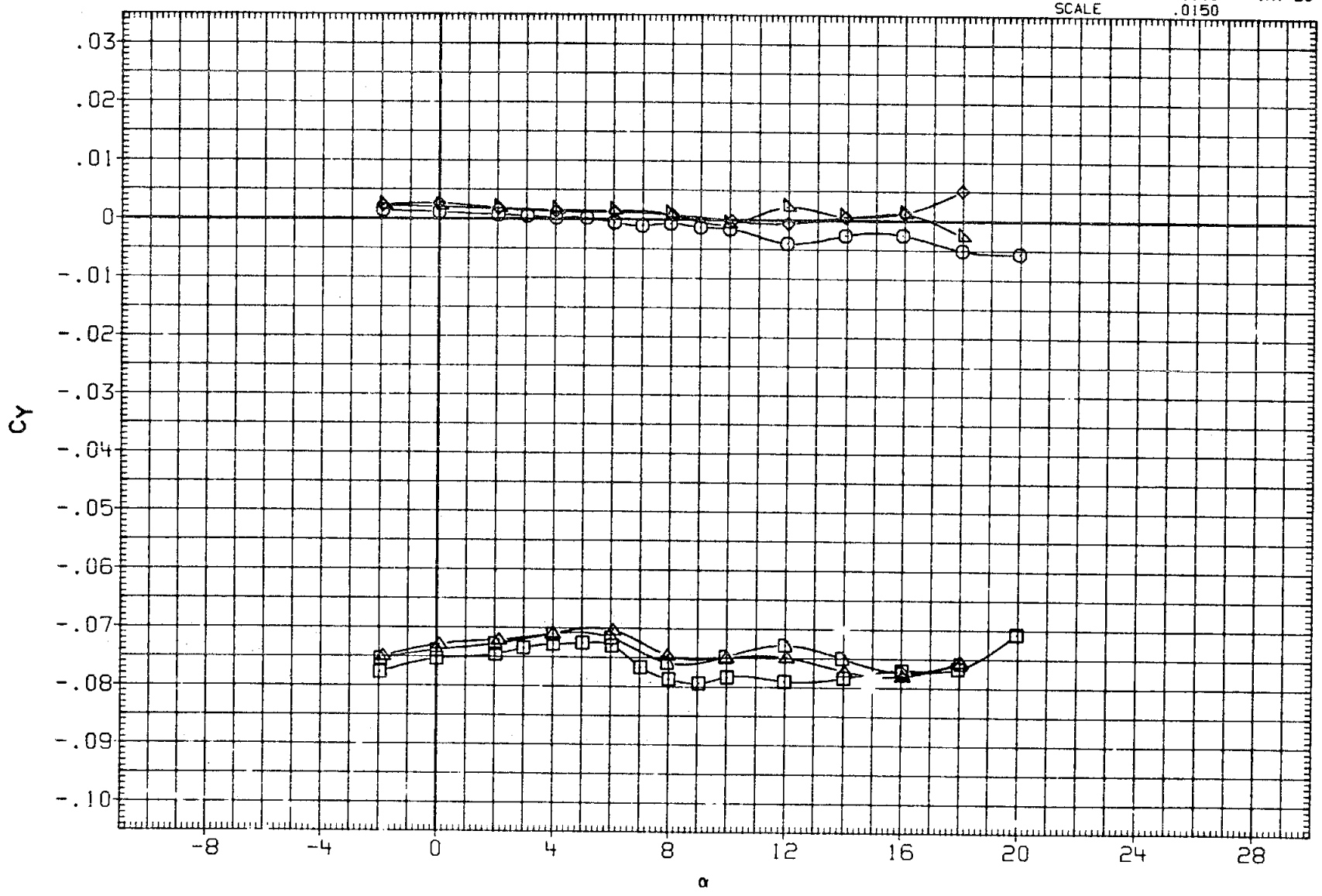

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R28141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R28155	△	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R28157	◺	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

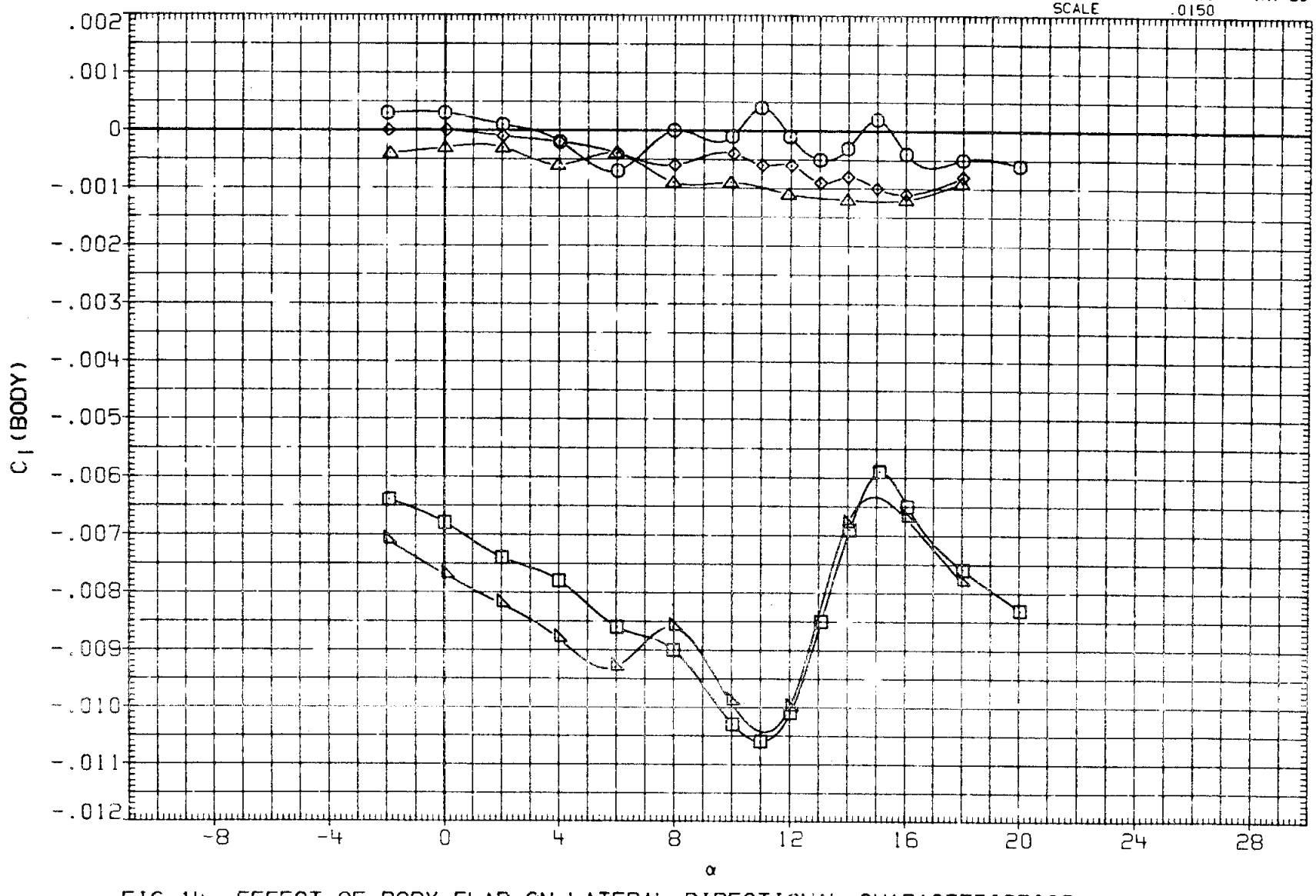

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R28001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R28002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R28141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R28155	△	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R28157	◺	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

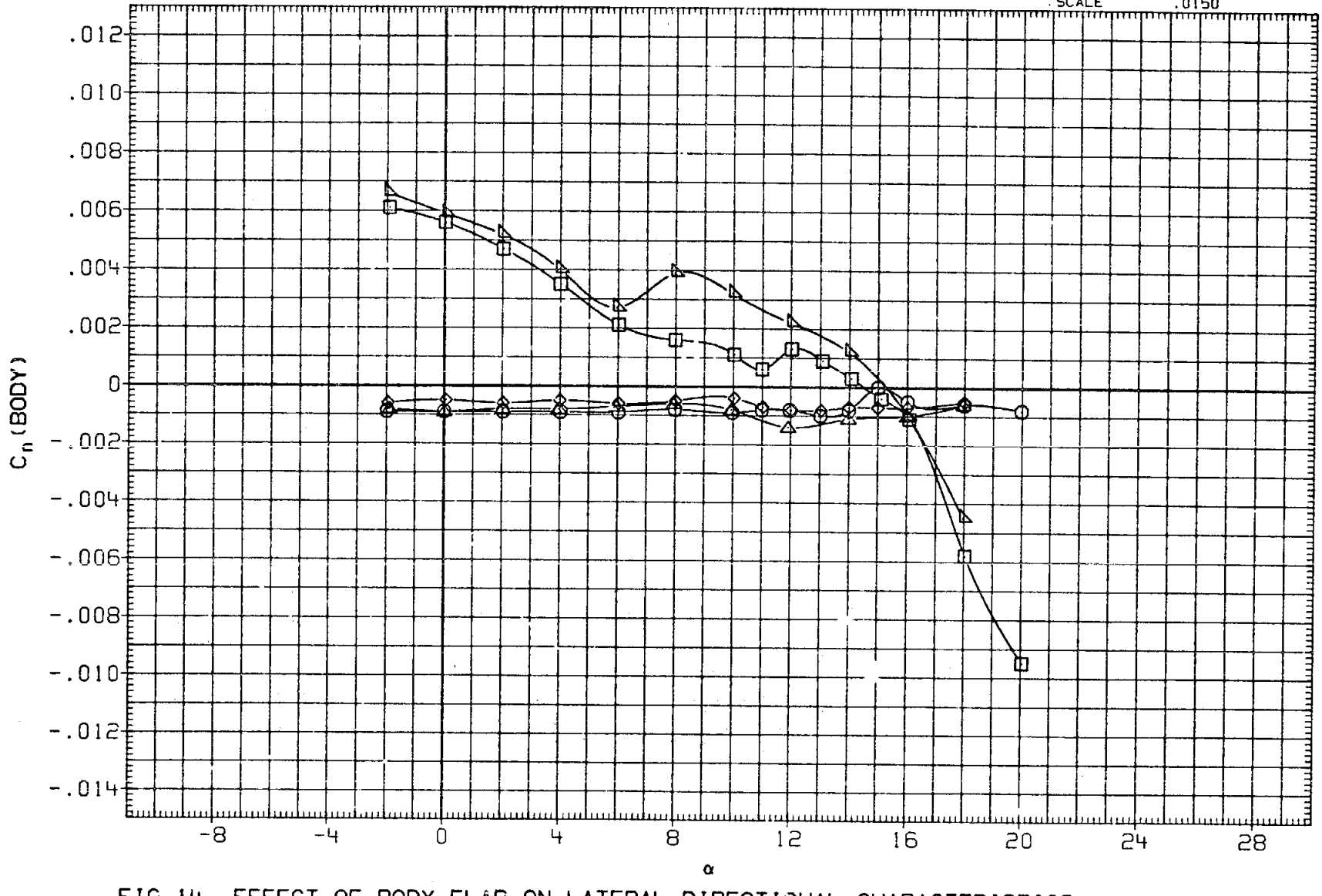

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	BETA	BDFLAP
R2B001	○	ARC 200-1 11(LA77) OV101	.000	25.000	.000	.000
R2B002	□	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	.000
R2B141	◇	ARC 200-1 11(LA77) OV101	.000	25.000	.000	-11.700
R2B155	△	ARC 200-1 11(LA77) OV101	.000	25.000	.000	16.300
R2B157	▷	ARC 200-1 11(LA77) OV101	.000	25.000	4.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

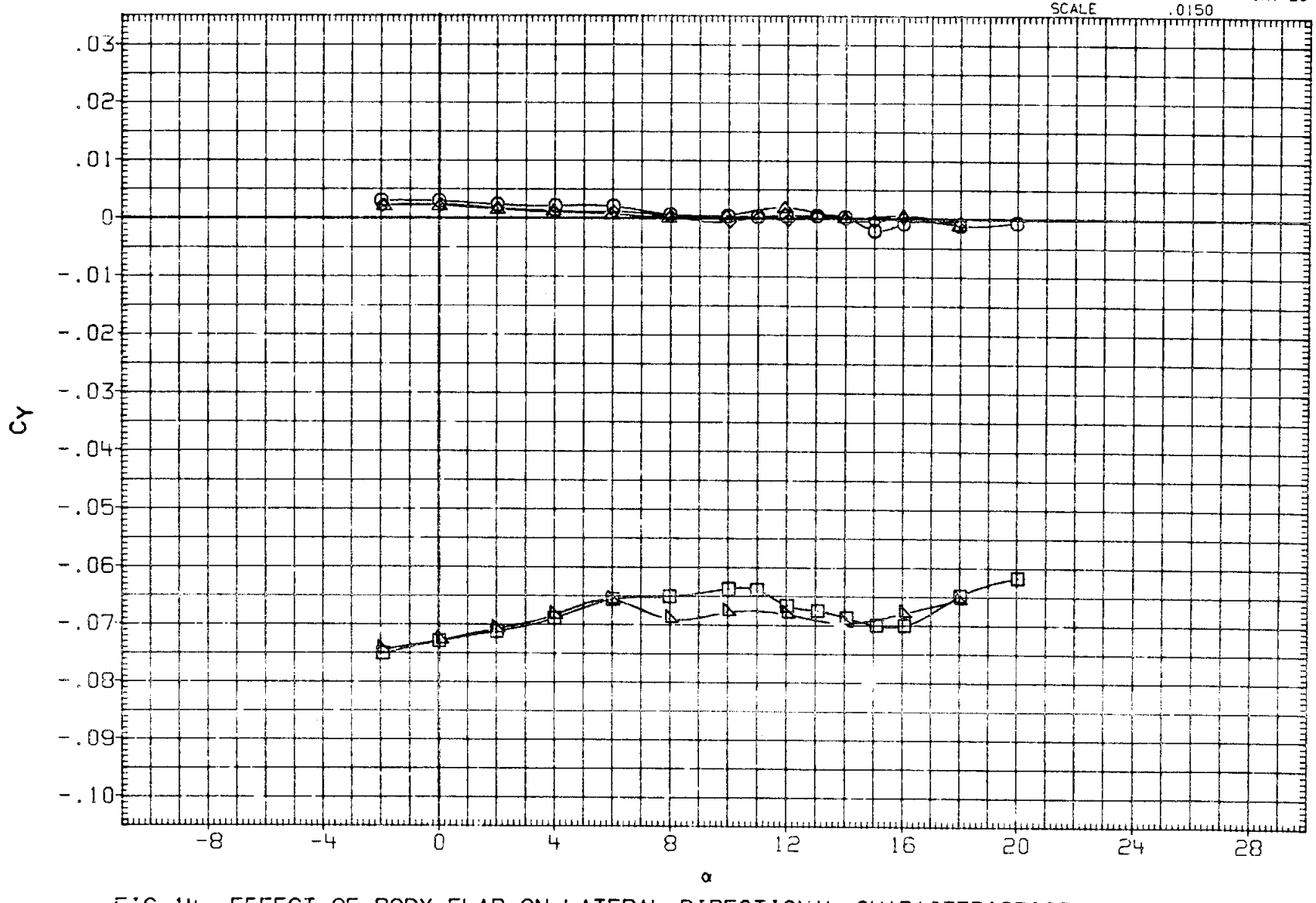

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28029	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R28158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

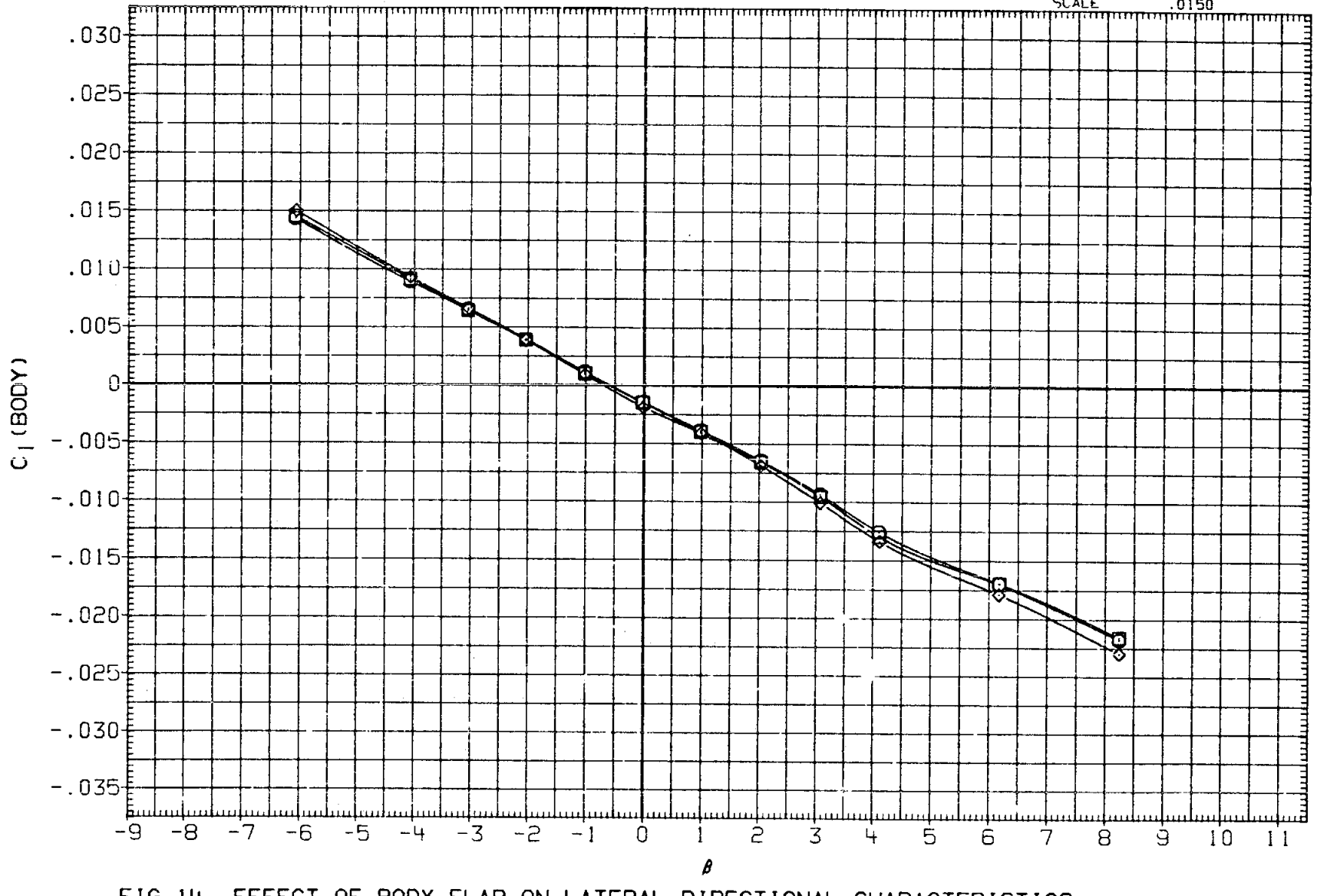

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B029	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R2B158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

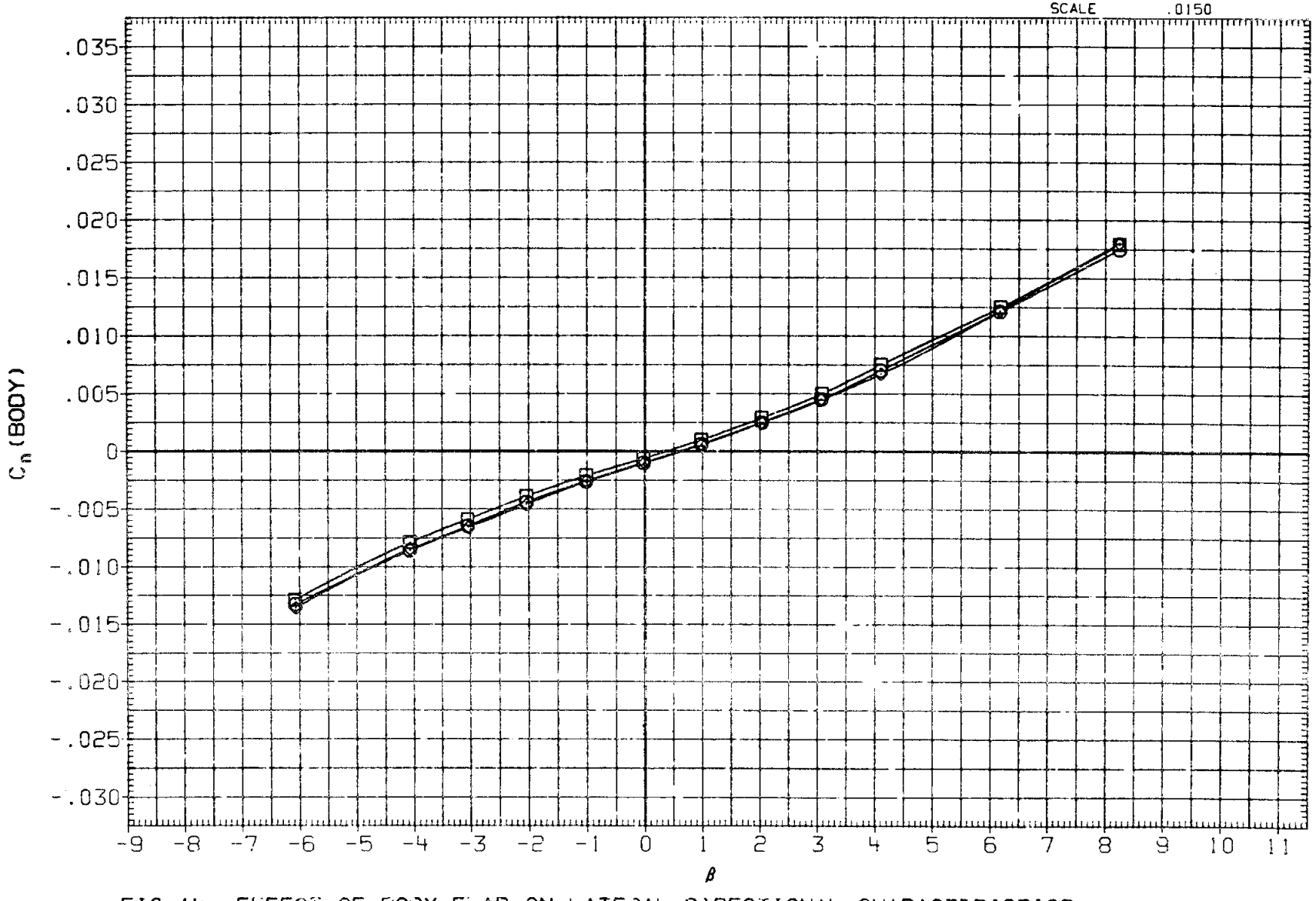

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B029	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R2B158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

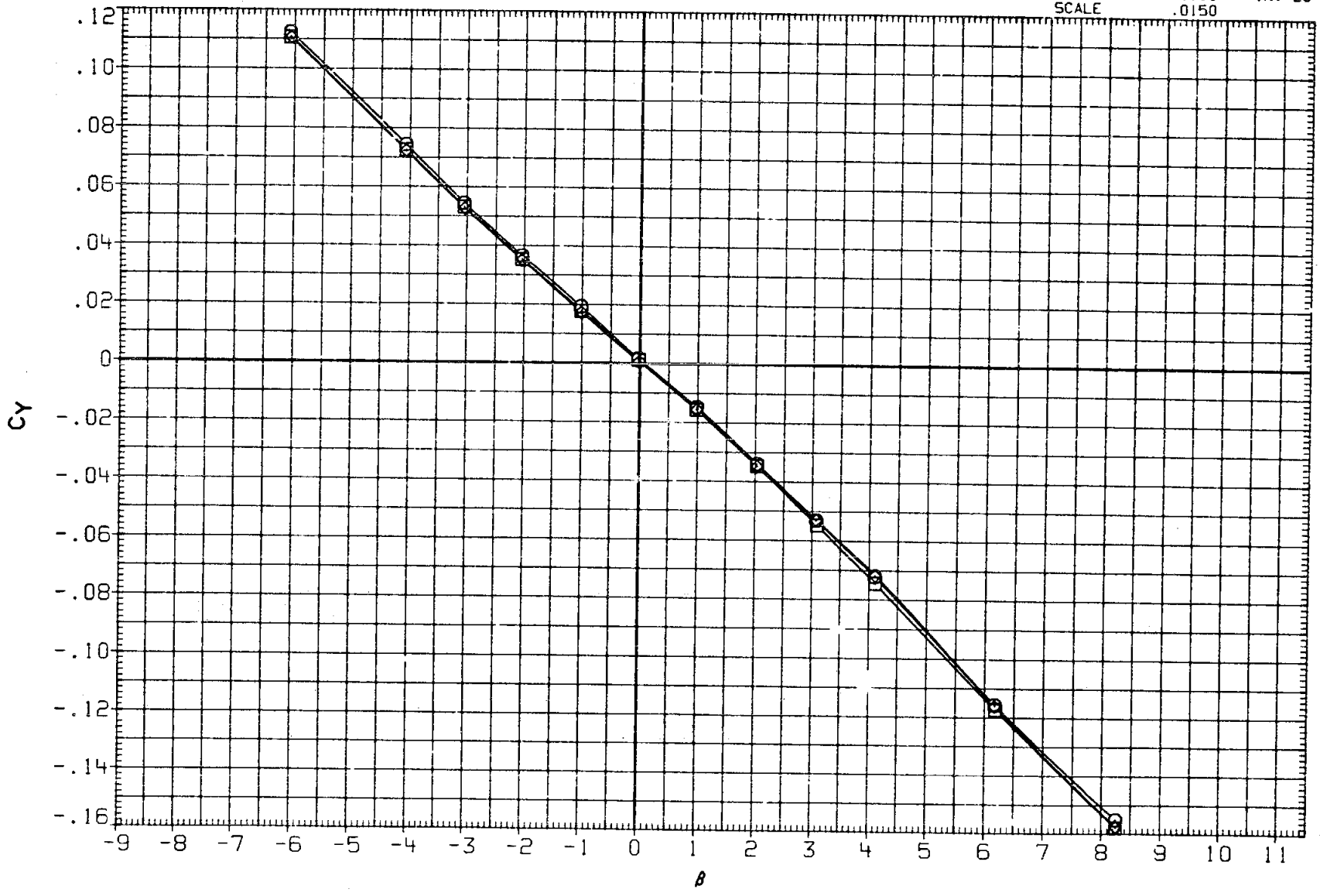

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

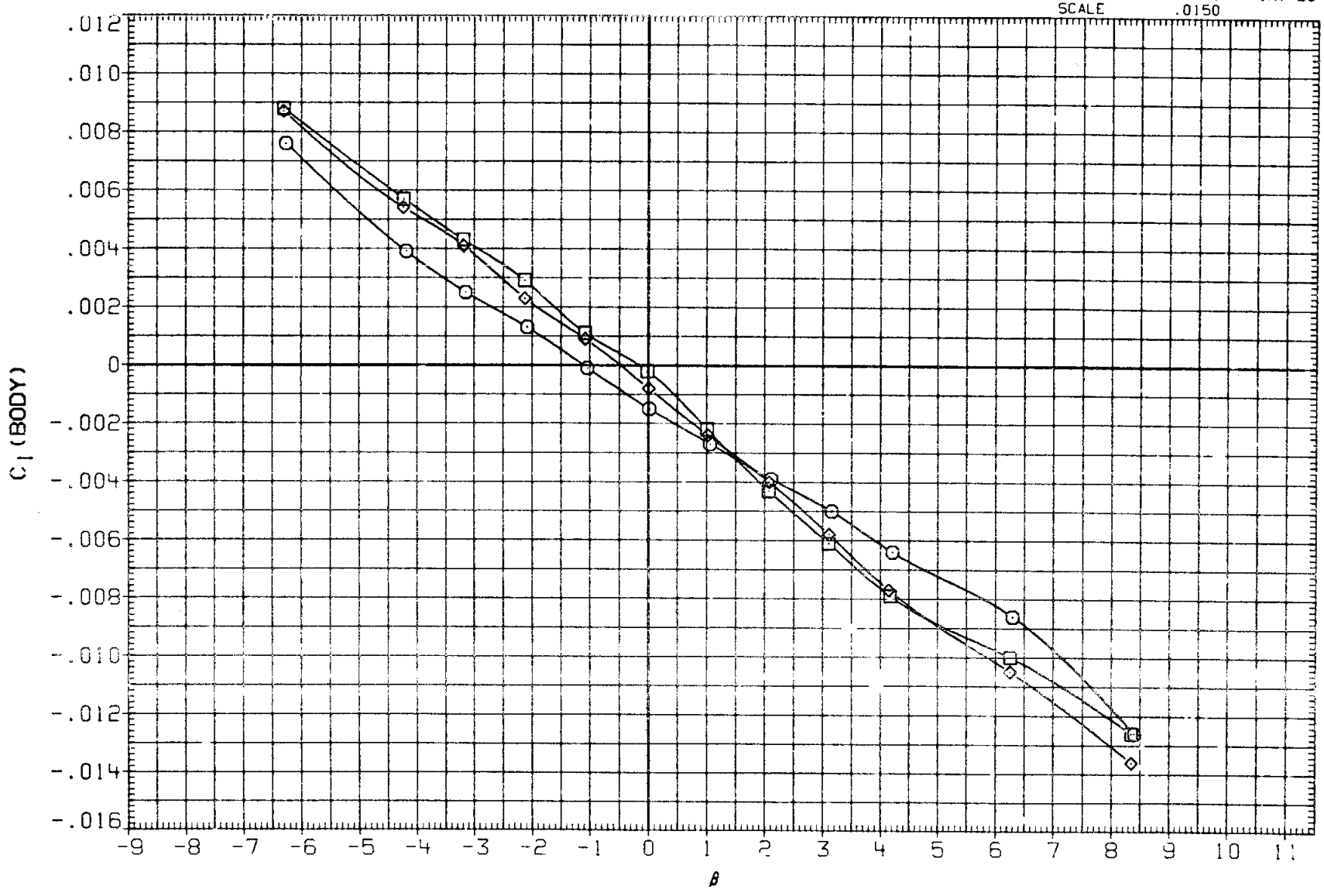

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R29010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R28154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R28167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

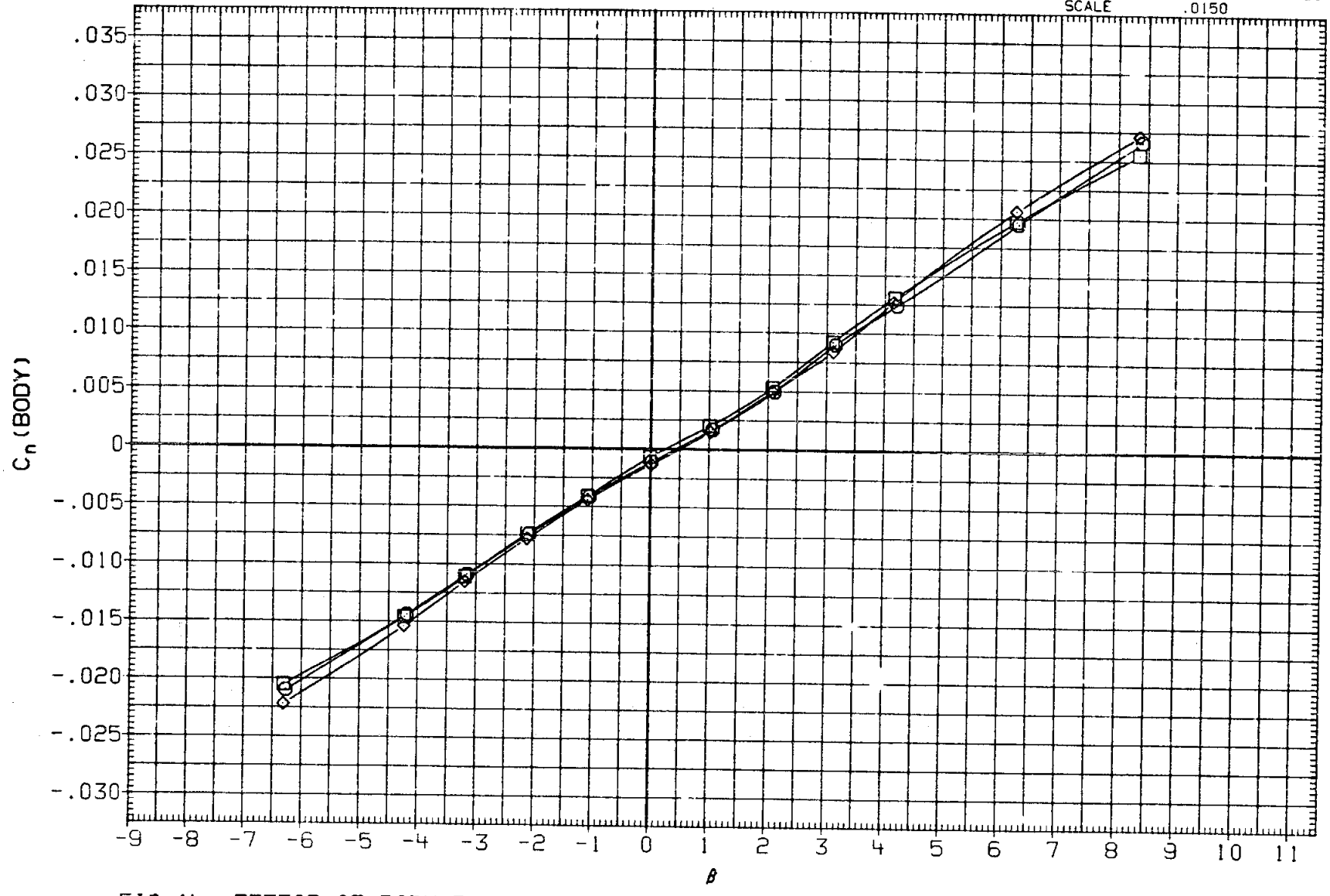

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R22167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

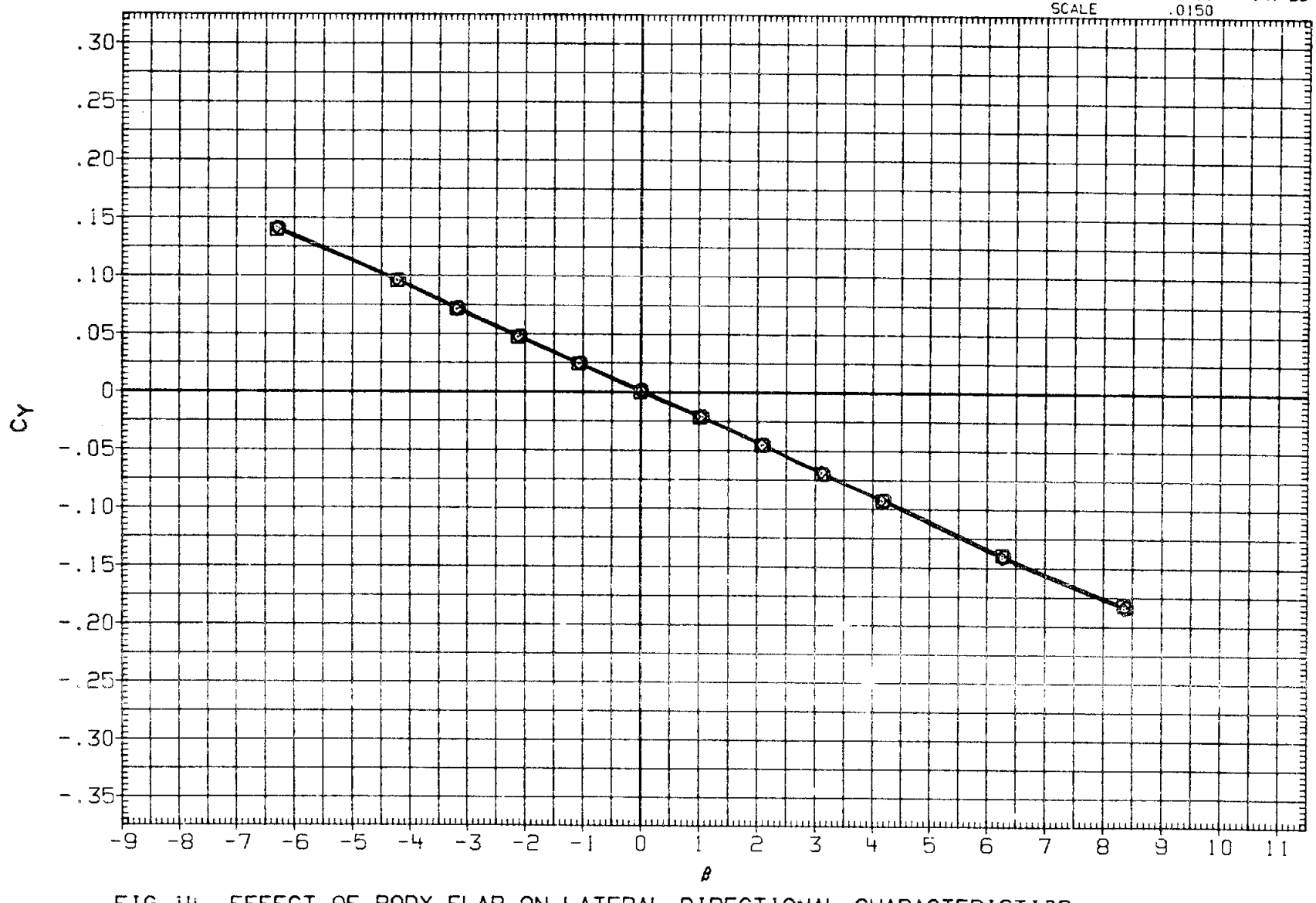

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	DATA NOT AVAILABLE					
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
				.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

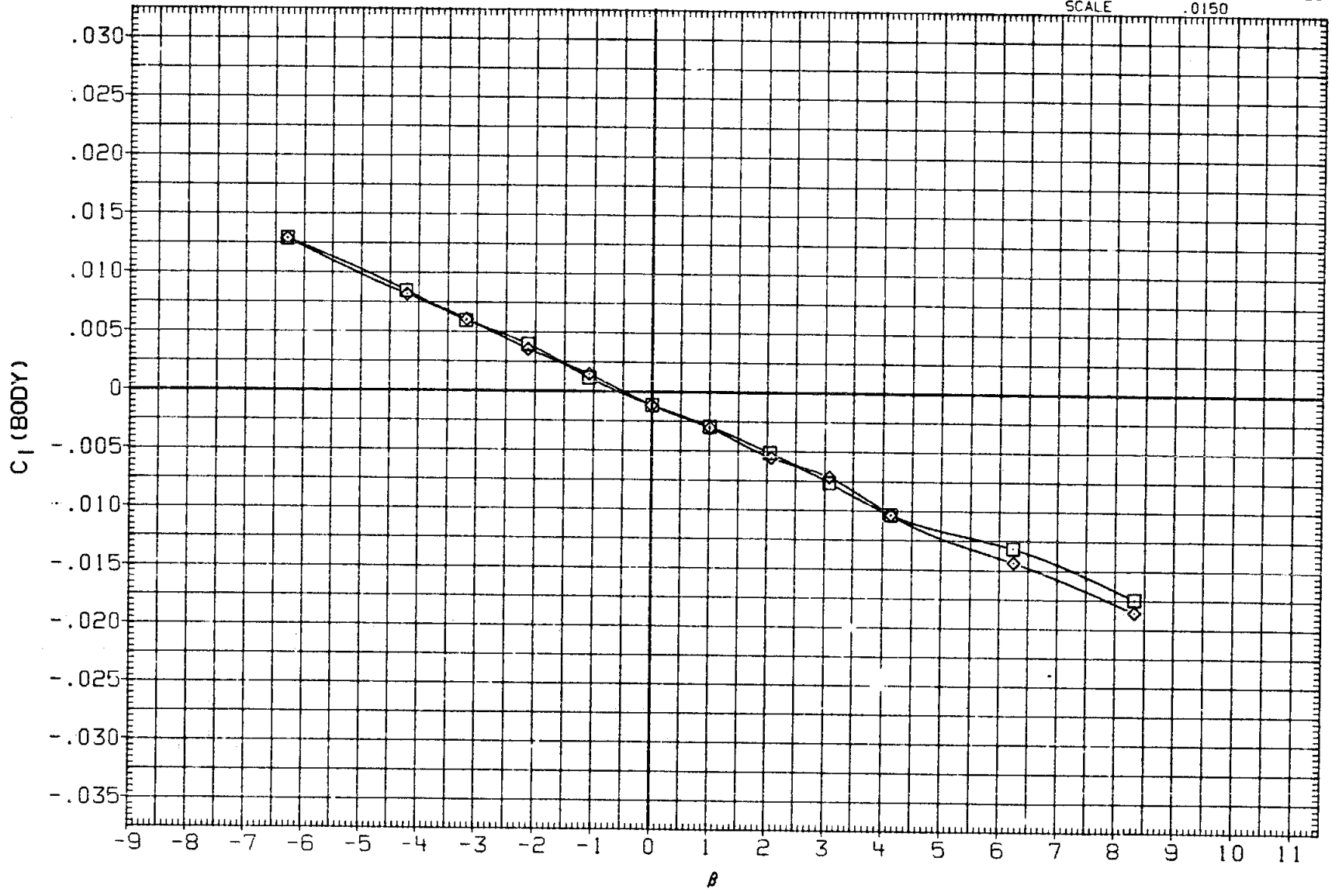

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BDFLAP
R28010	○	DATA NOT AVAILABLE		.000	25.000	5.000	.000
R28154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R28167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

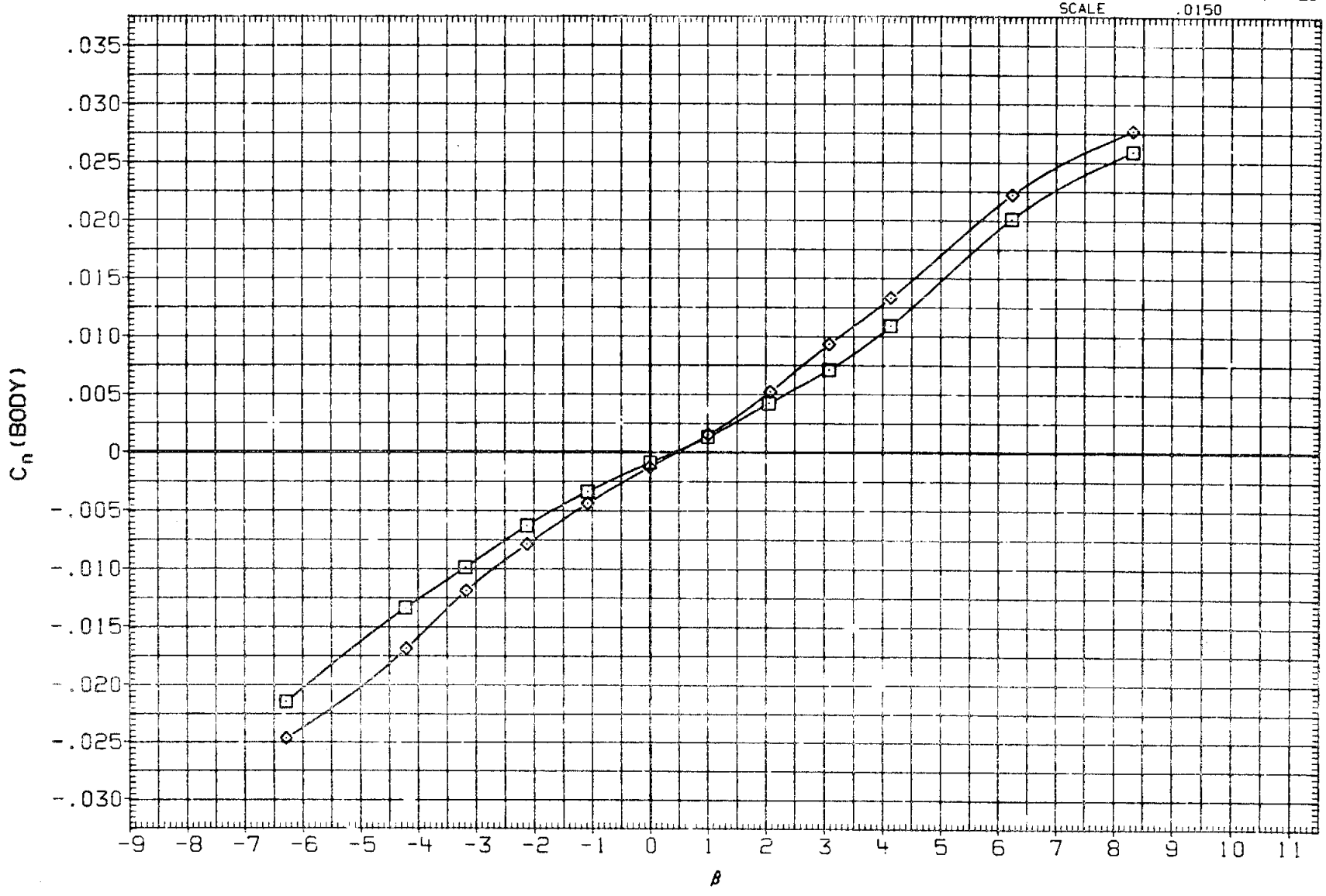

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	DATA NOT AVAILABLE					
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
				.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

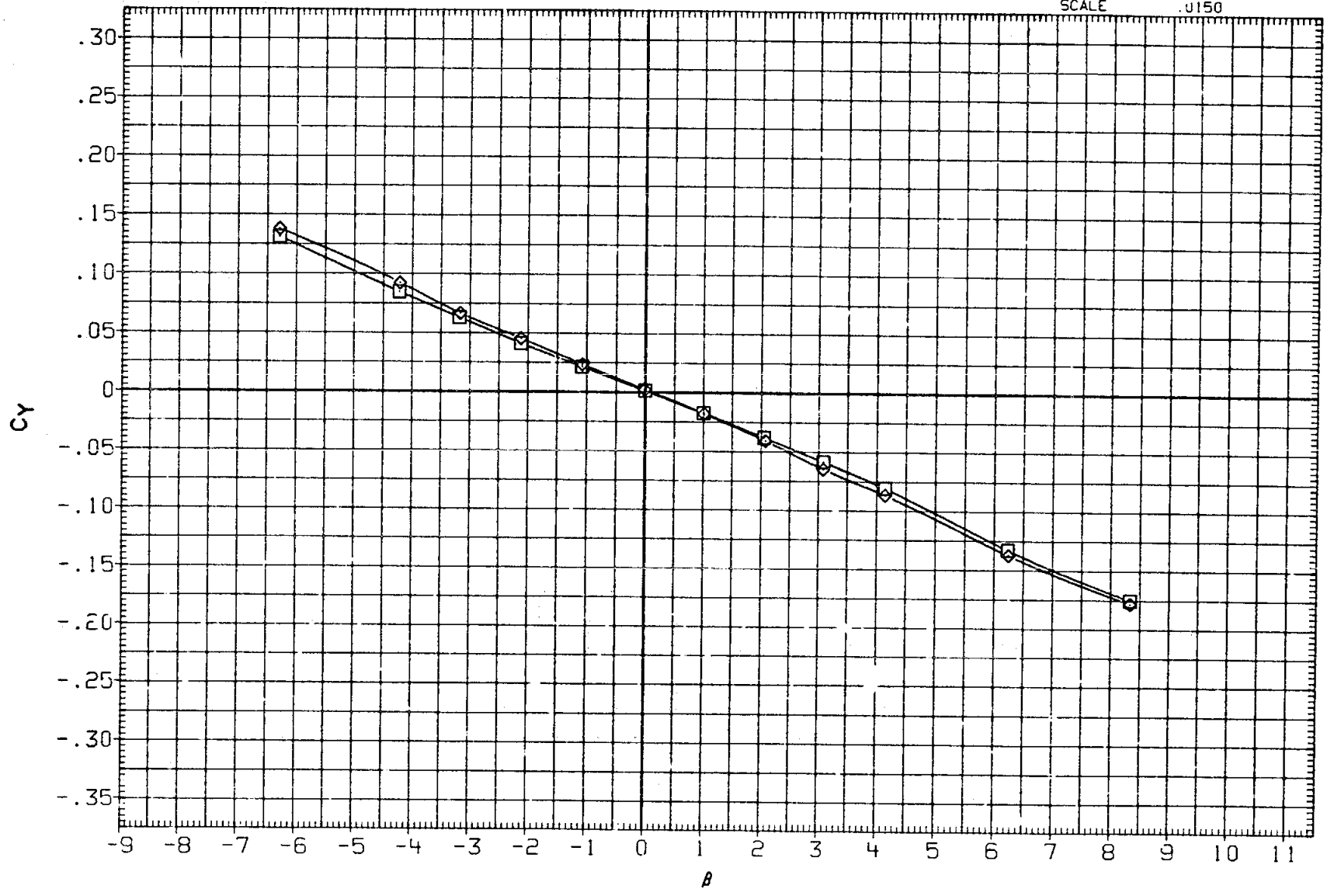

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

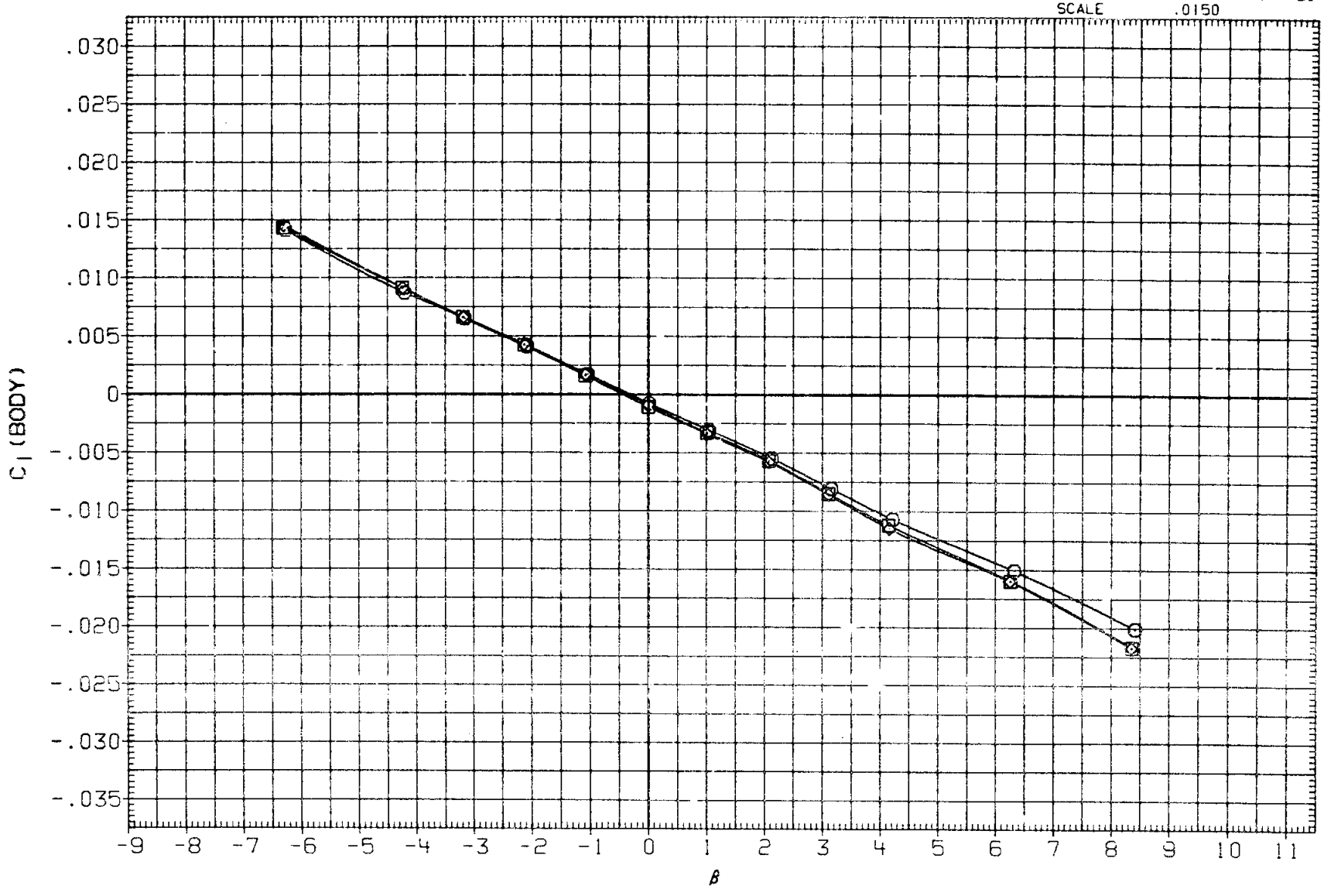

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

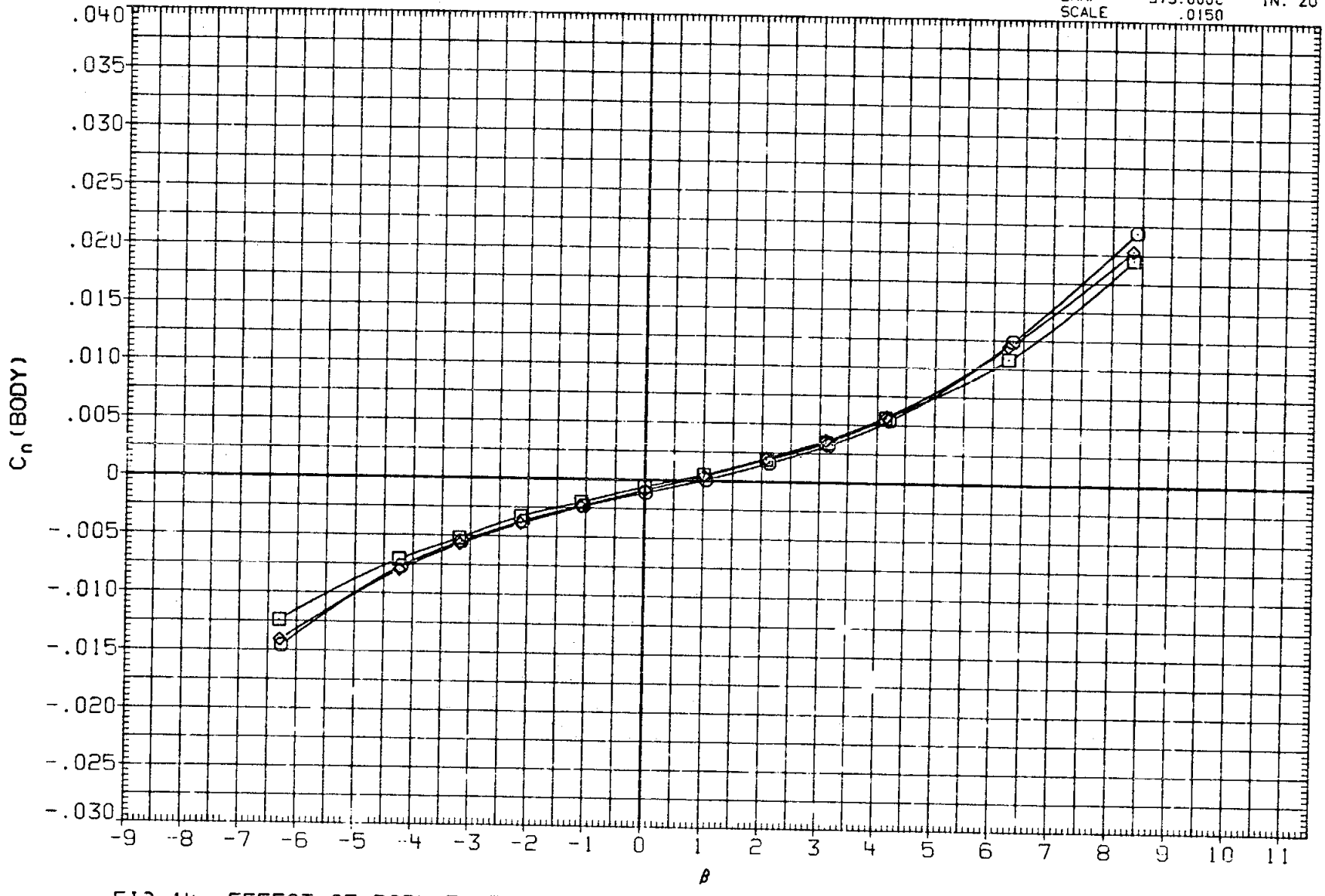

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B154	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	-11.700
R2B167	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8300	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

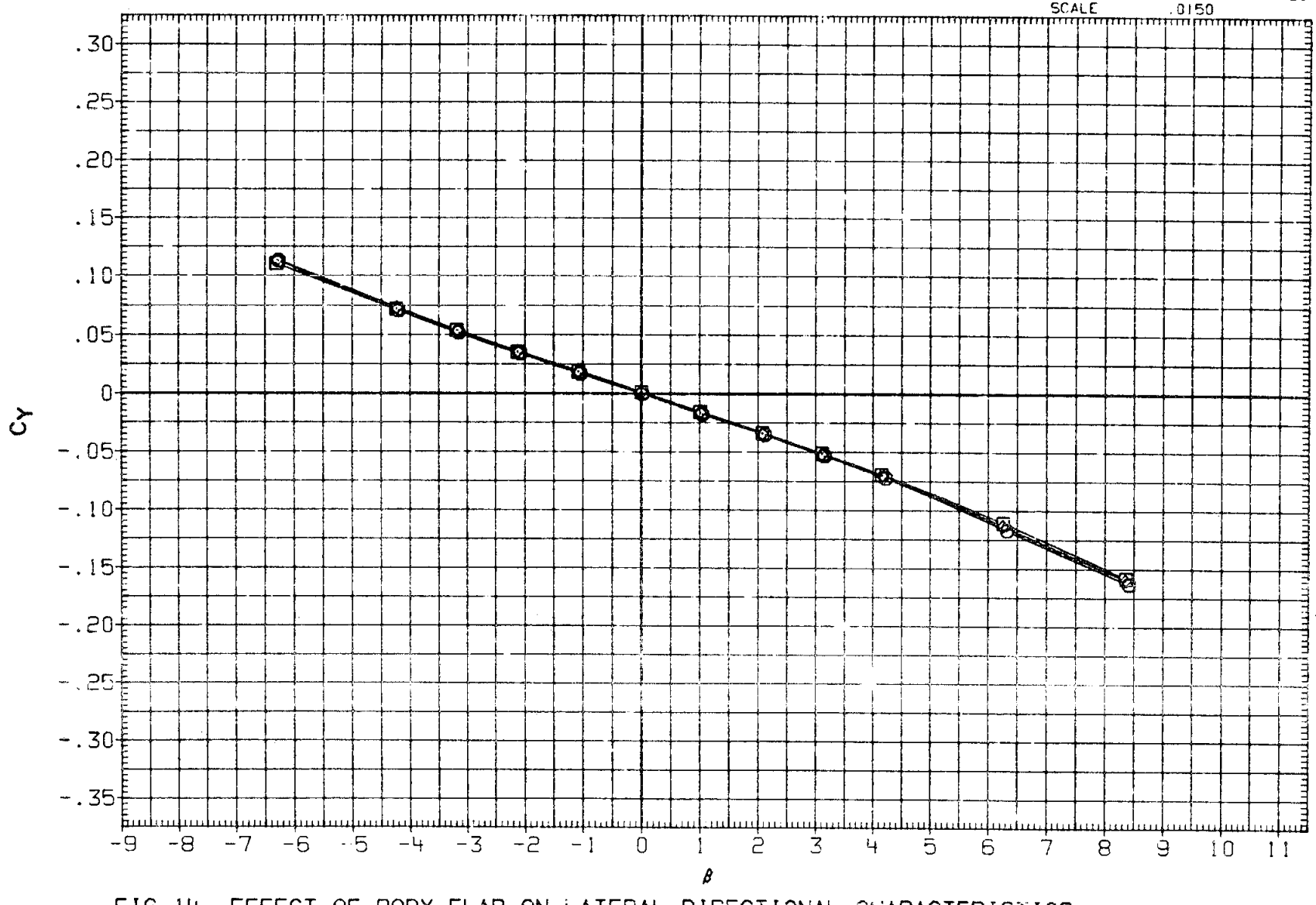

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R28158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

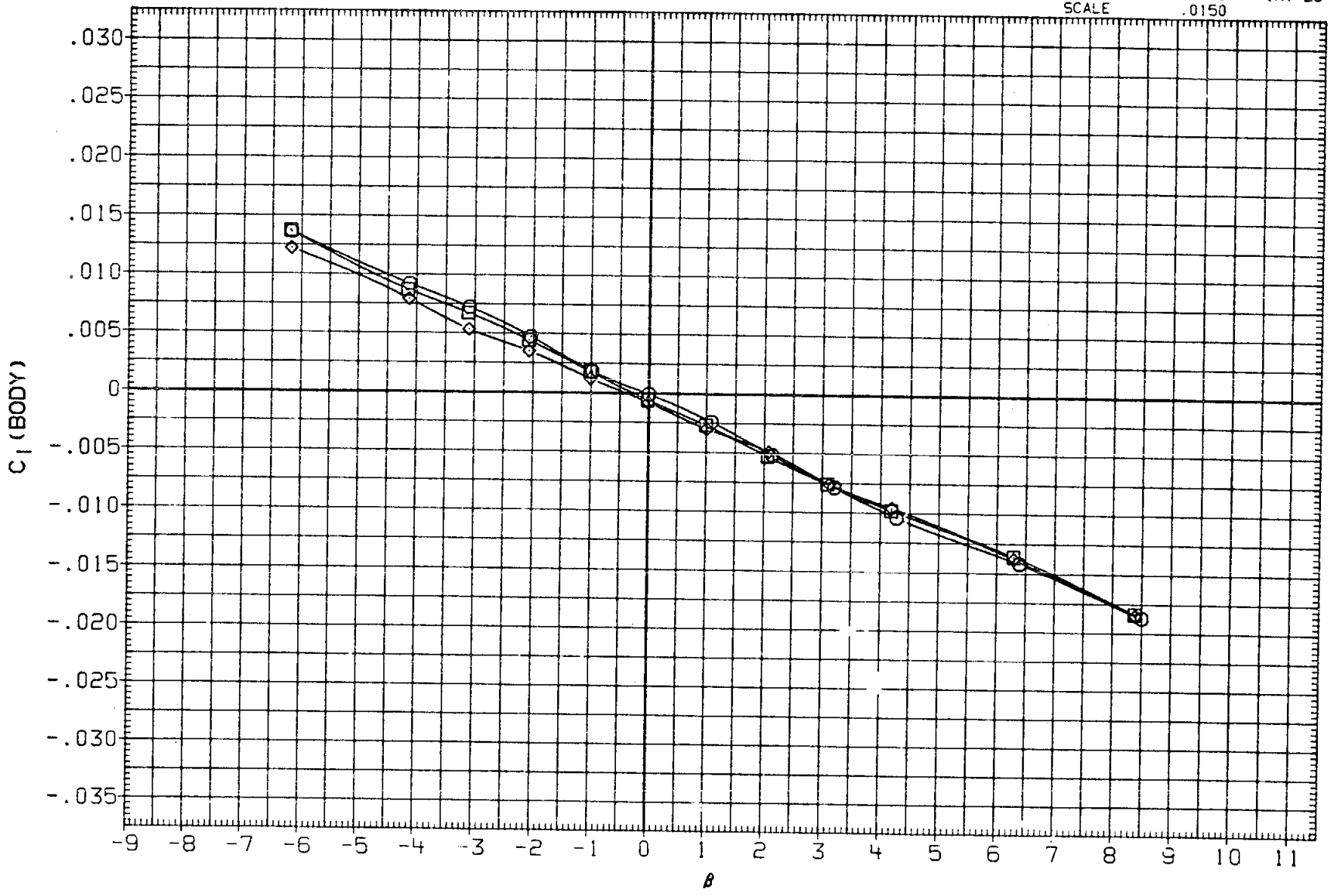

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R2B158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

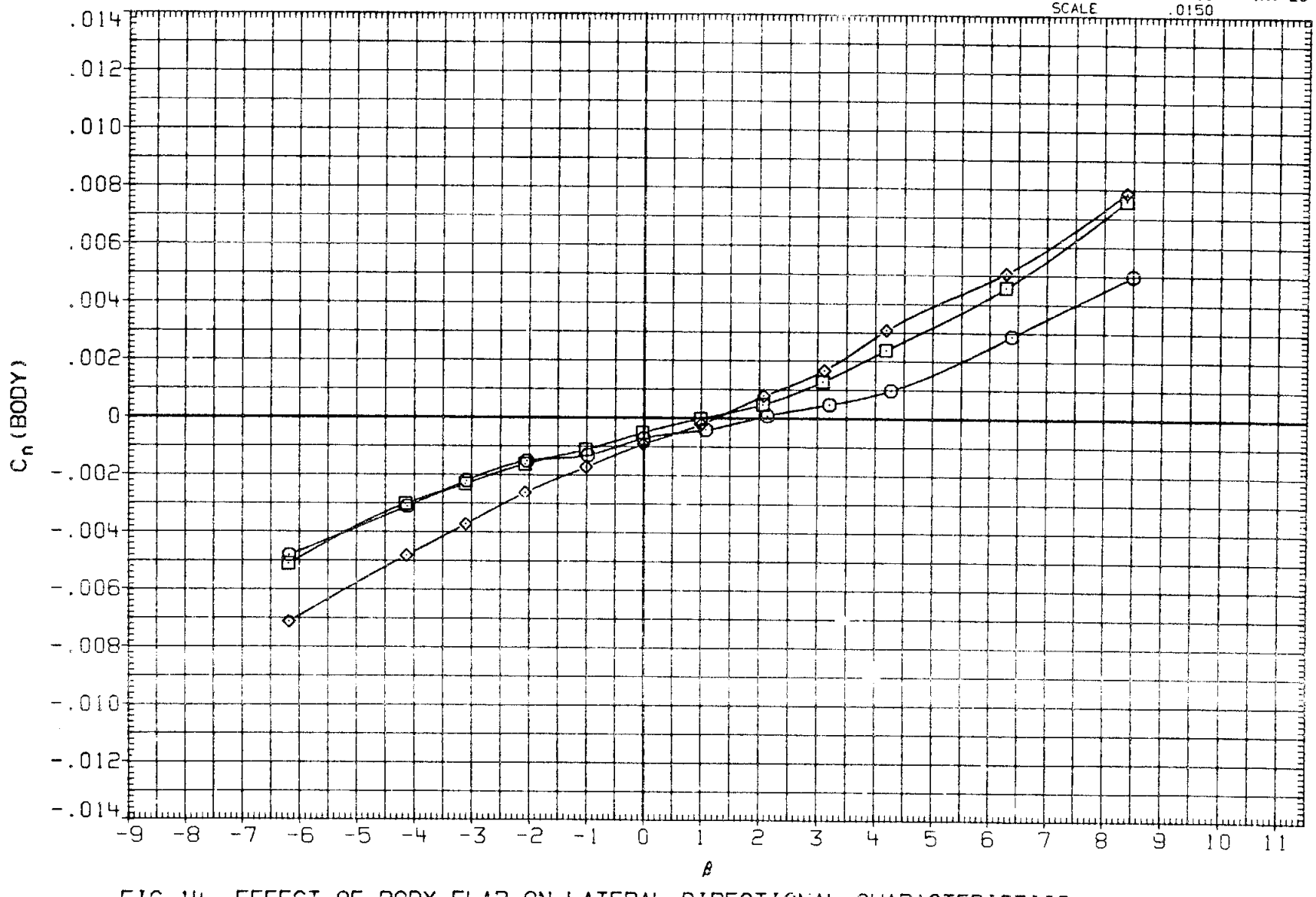

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28144	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	-11.700
R28158	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	16.300

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

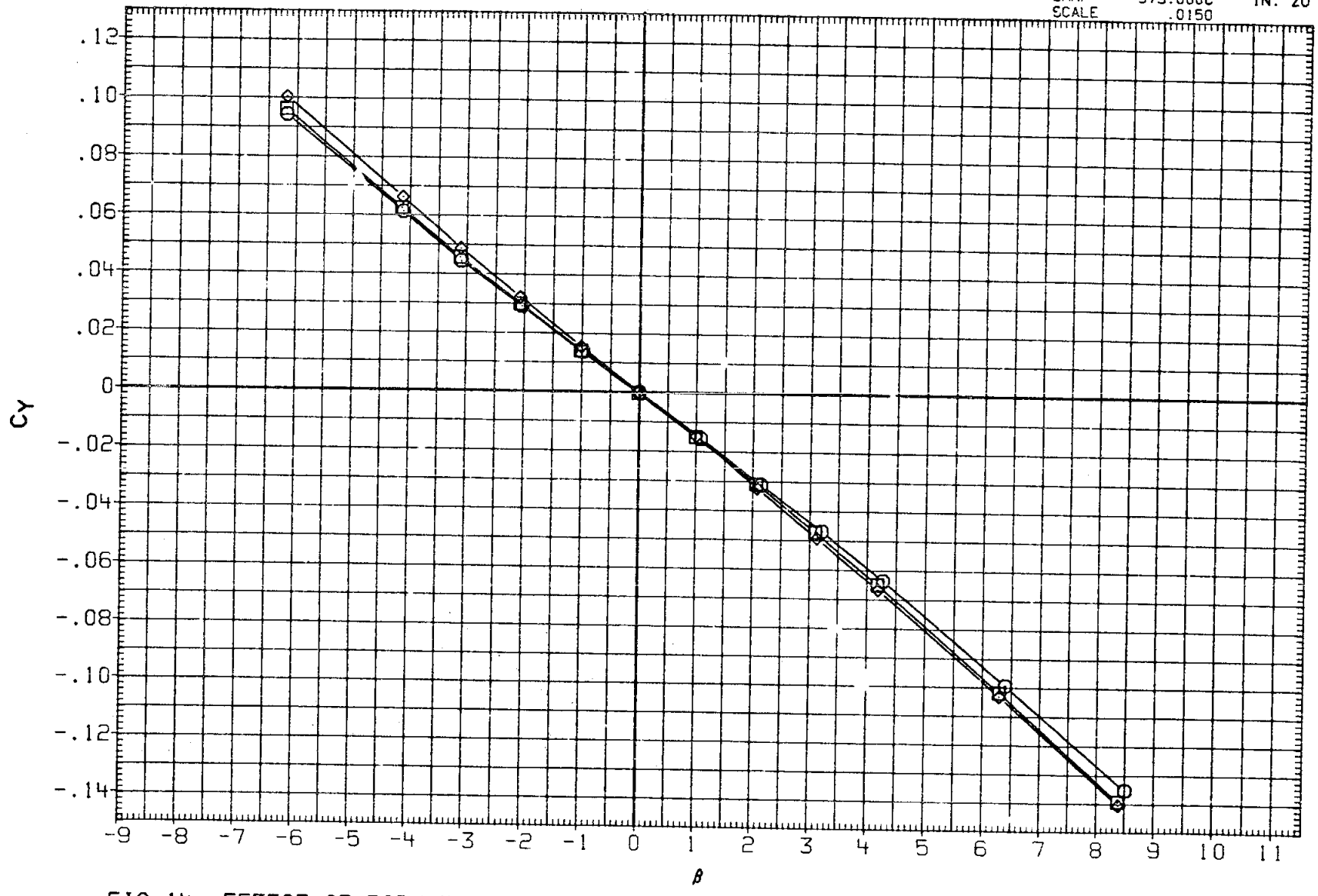

FIG.14 EFFECT OF BODY FLAP ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R2B170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R2B029	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R2B083	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R2B186	⬠	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

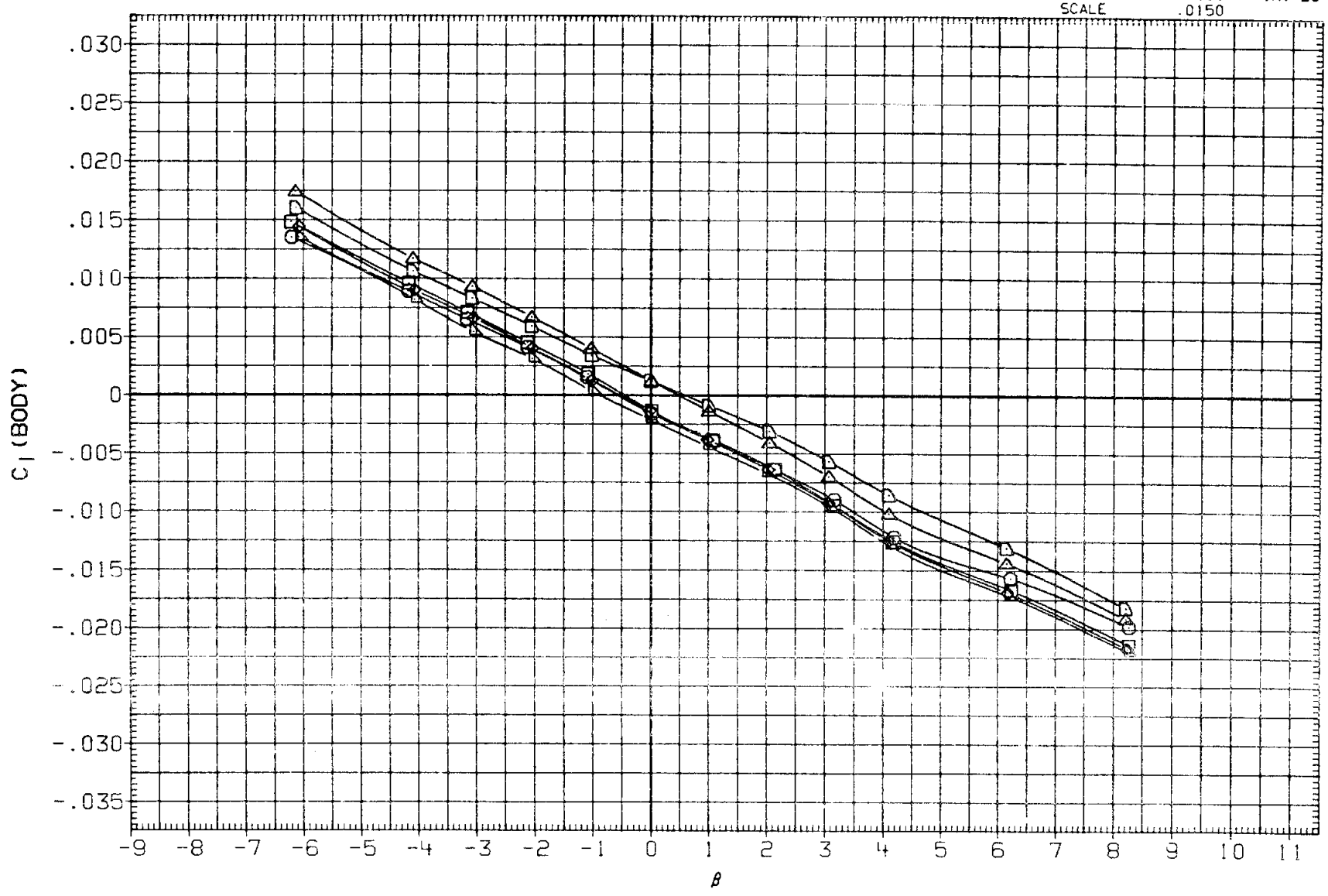

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R2B170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R2B029	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R2B093	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R2B186	⬠	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

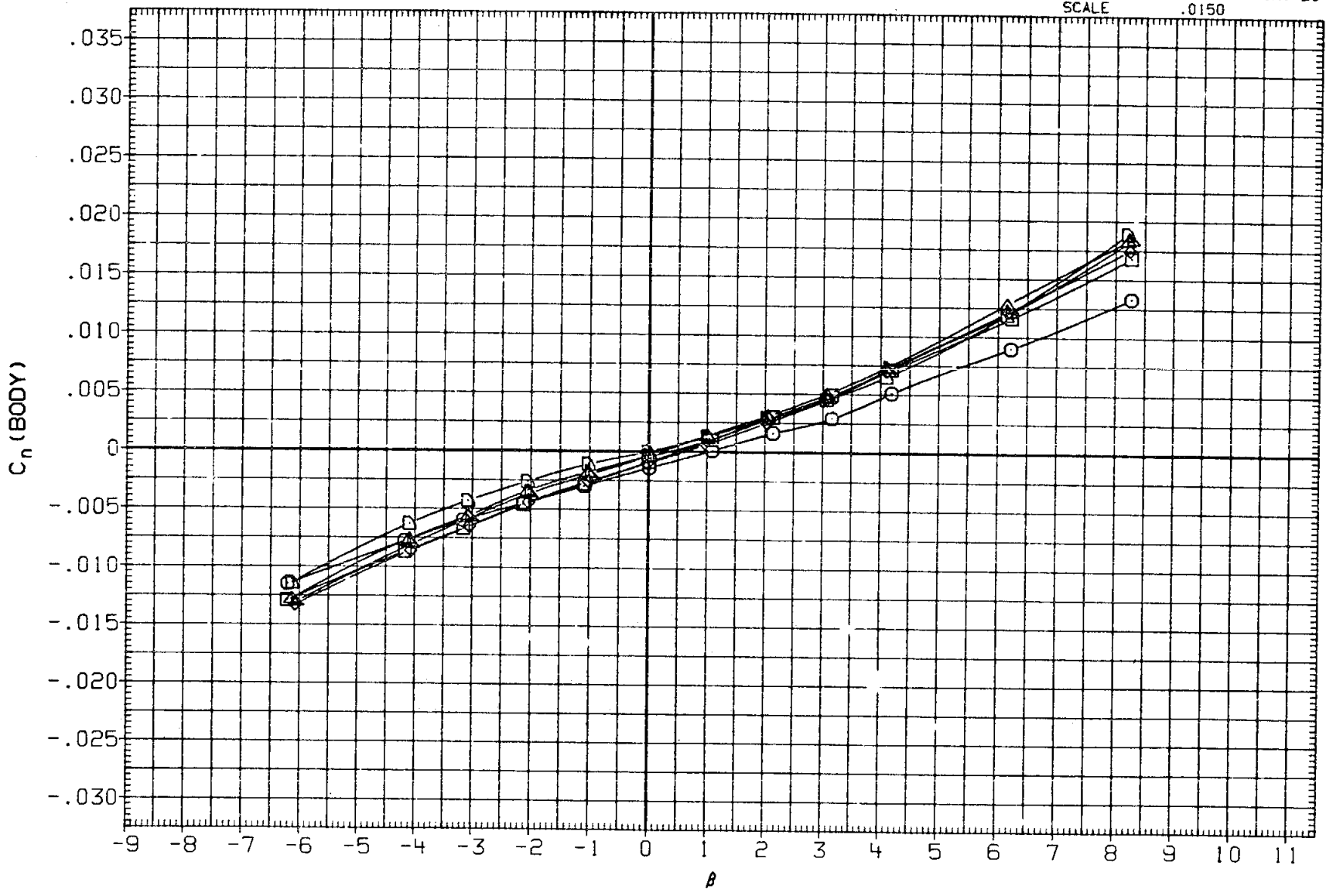

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOILER	ALPHA	BDFLAP
R2B107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R2B170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R2B029	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R2B083	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R2B186	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

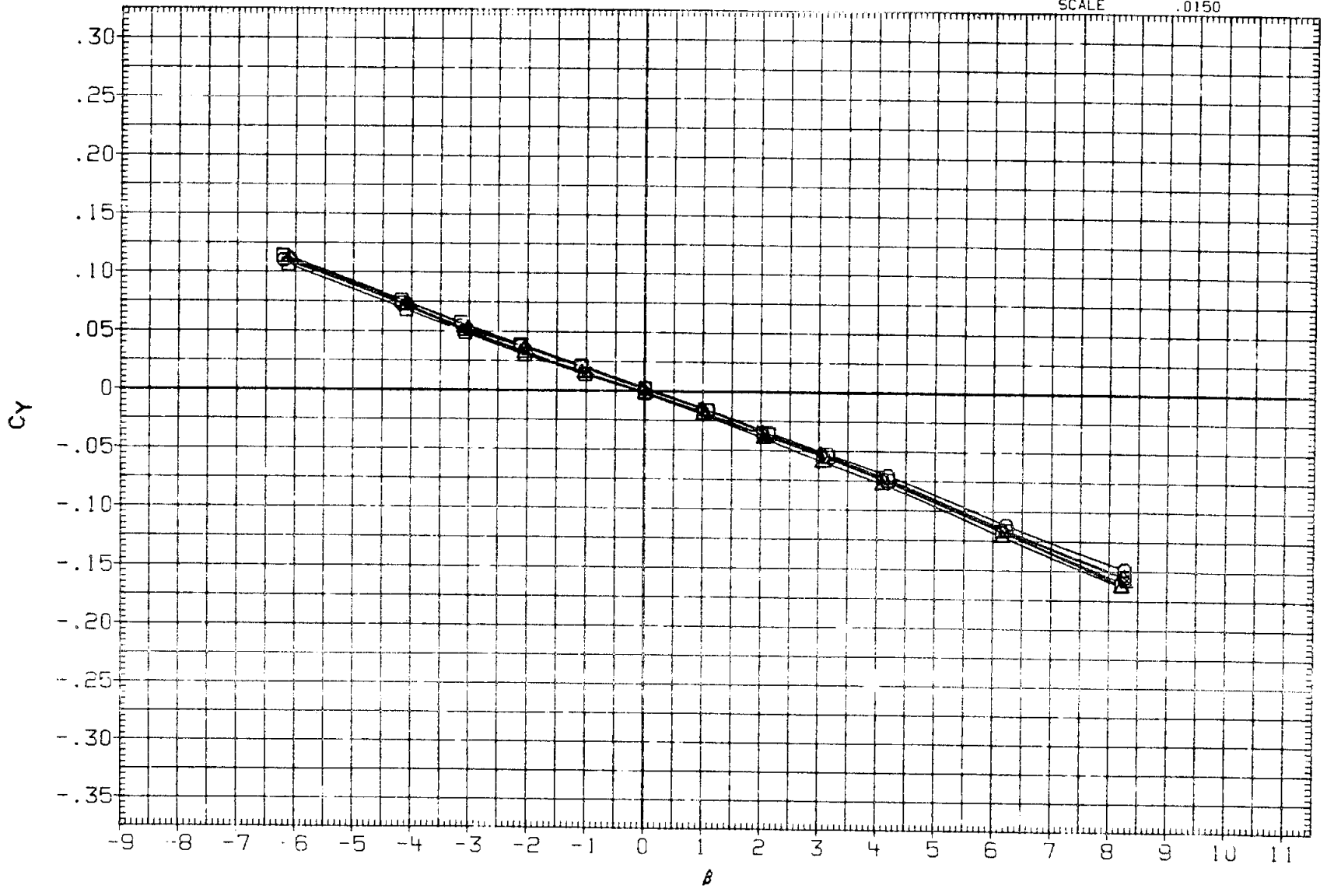

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	◻	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

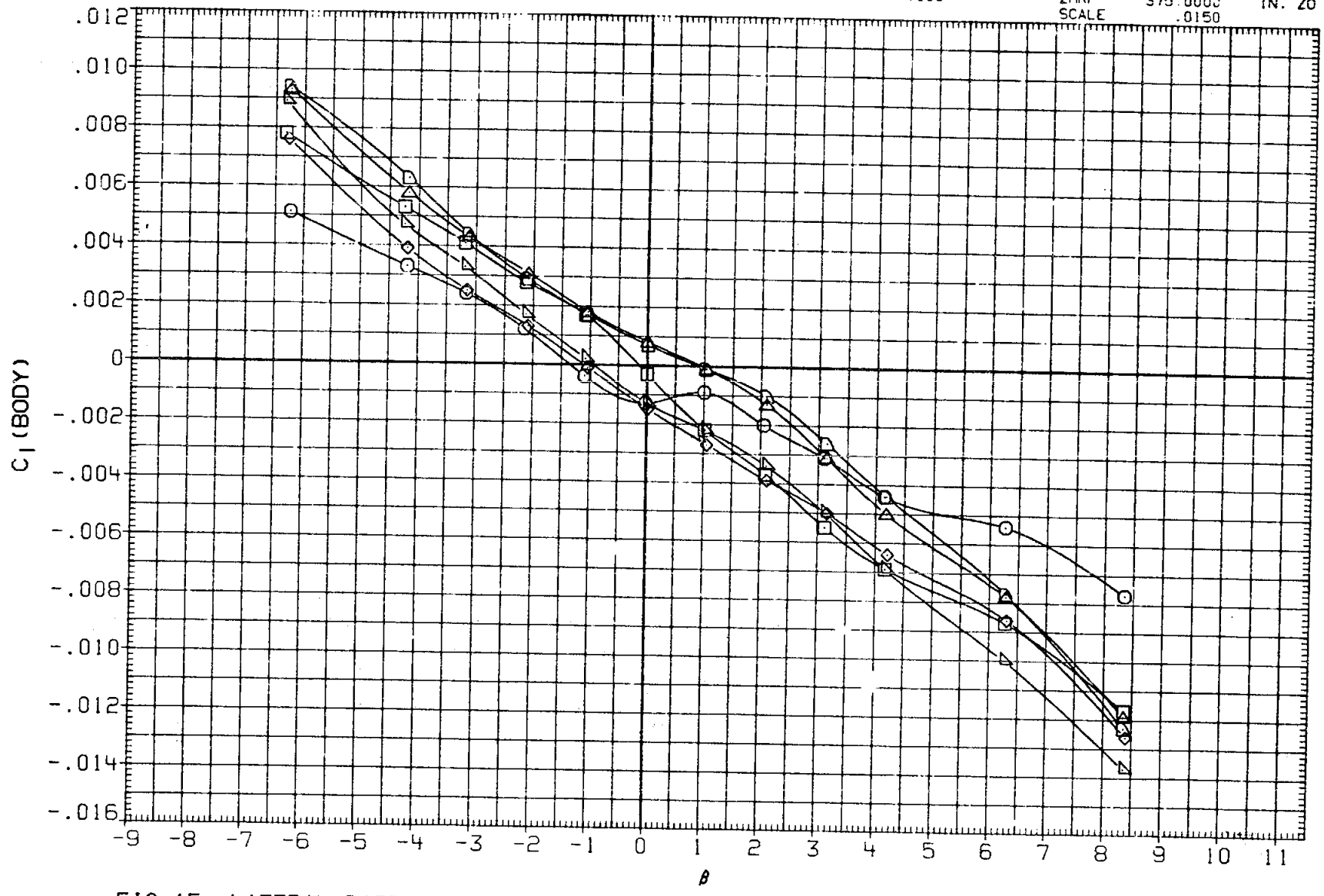

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.0	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◭	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	◮	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

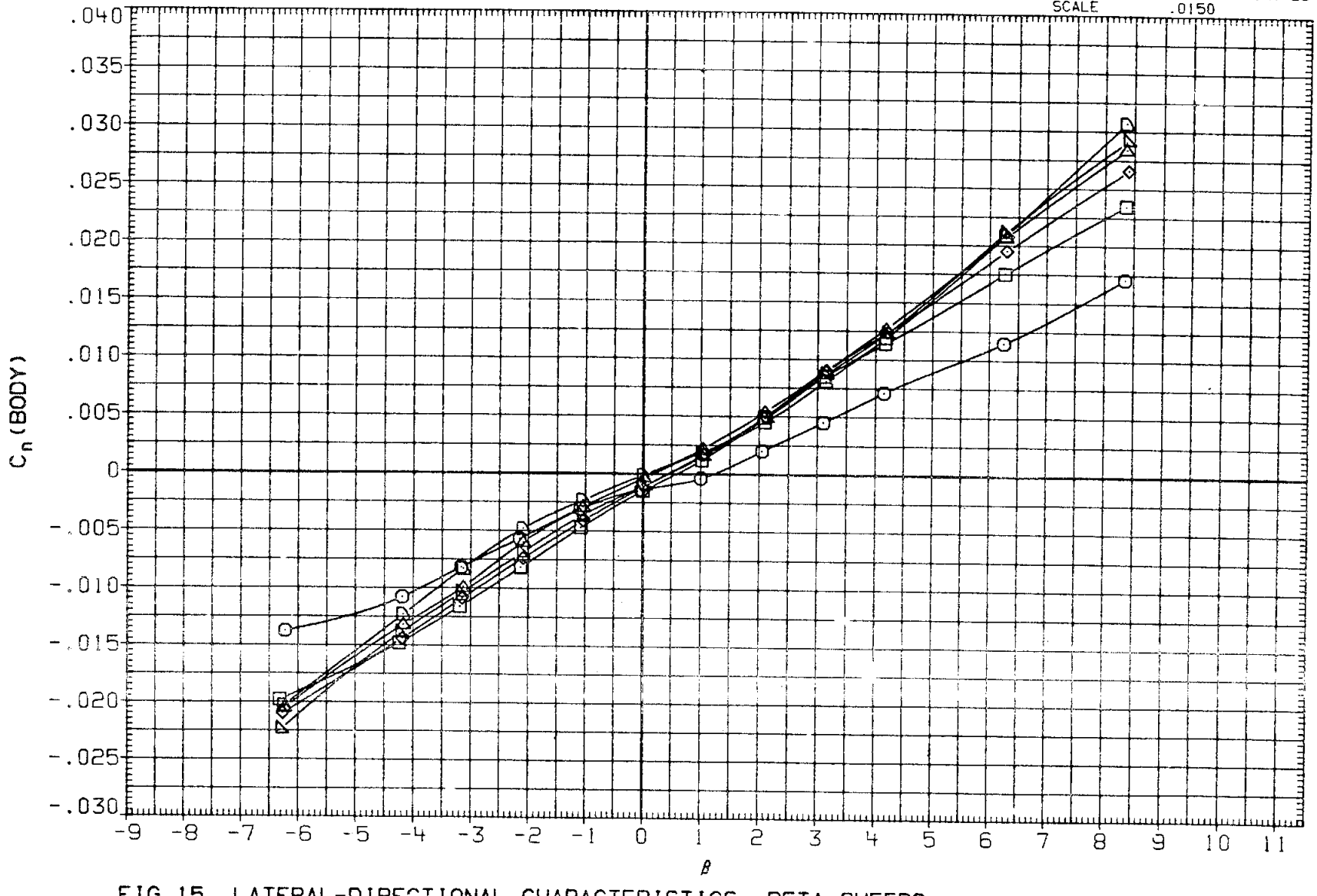

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	▷	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

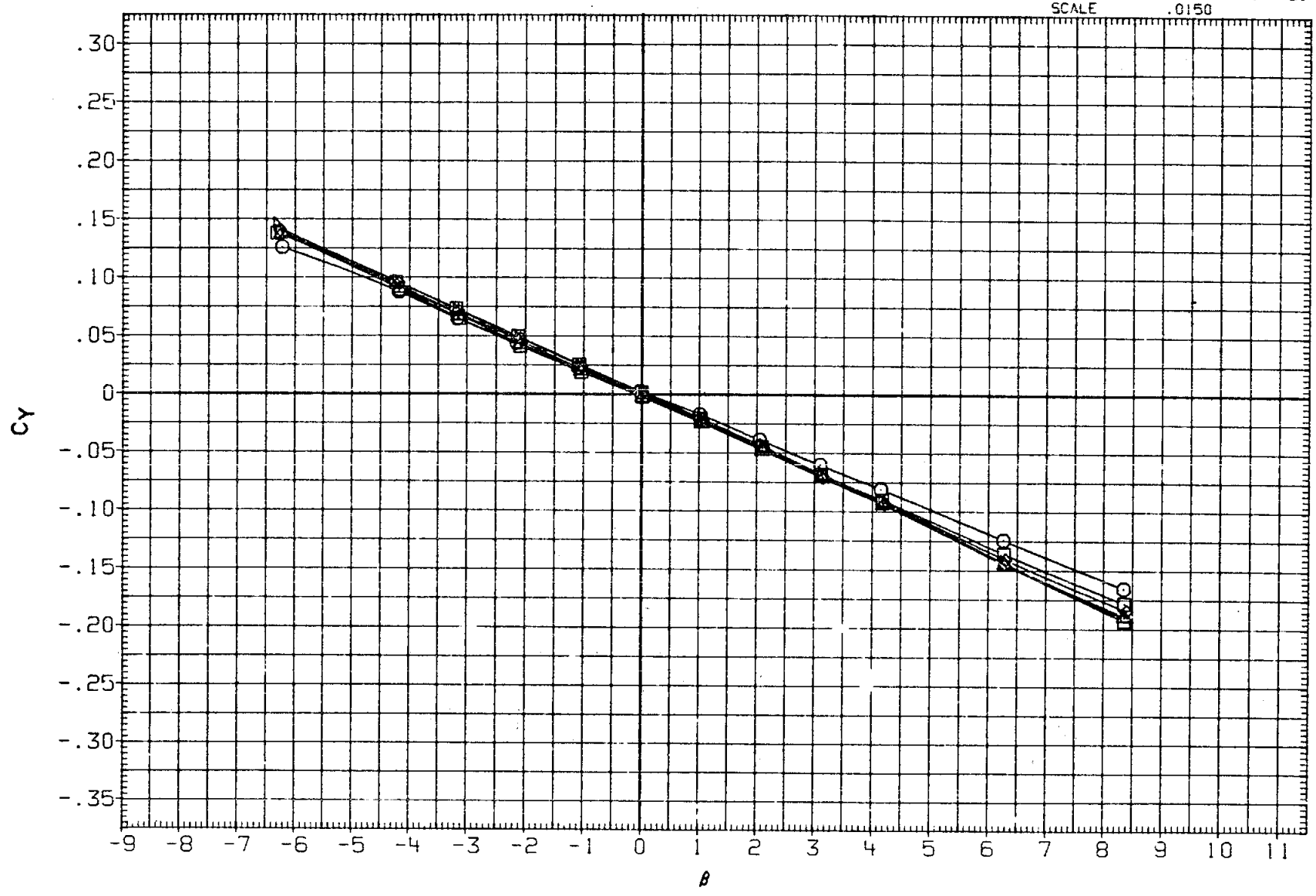

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	DATA NOT AVAILABLE		.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	▷	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

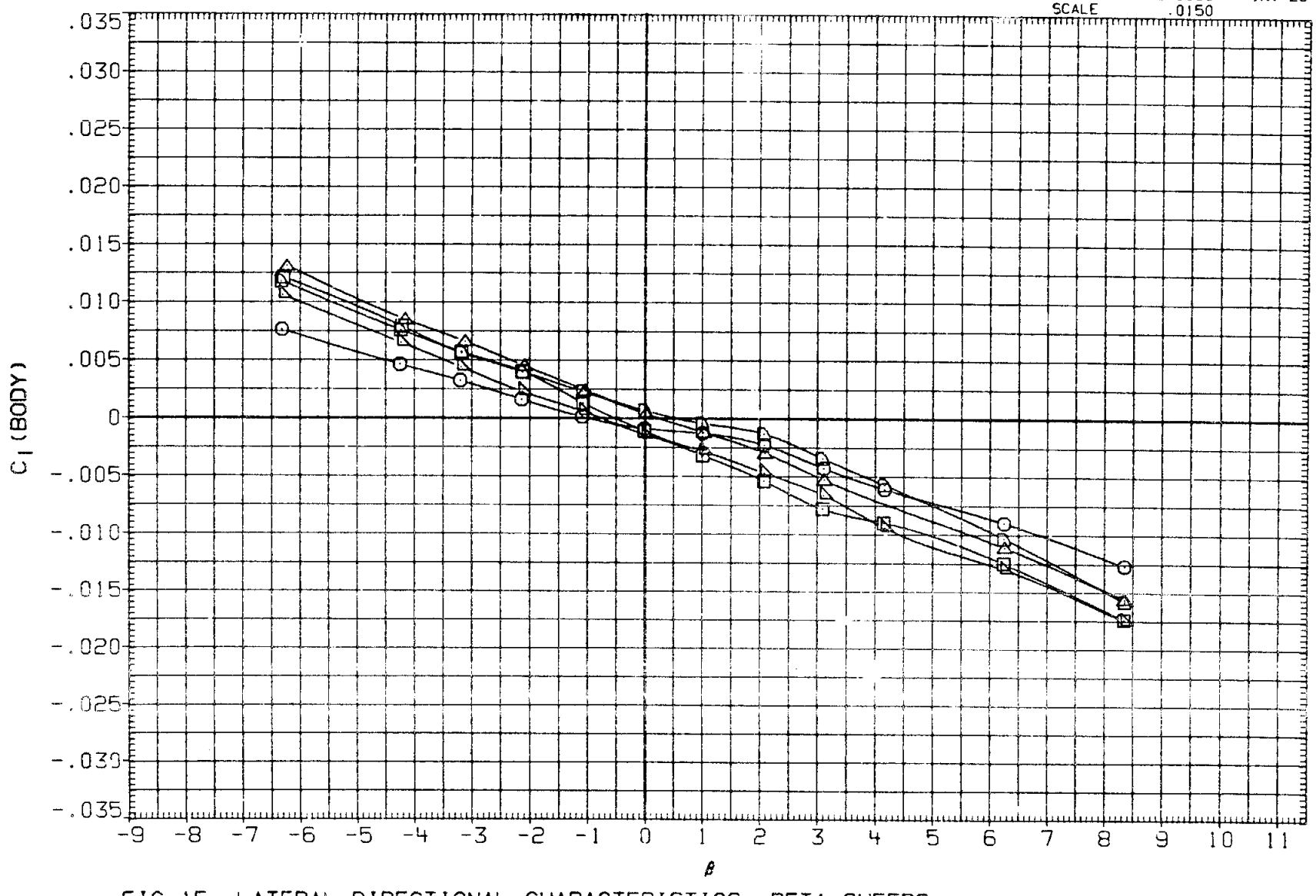

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	DATA NOT AVAILABLE		.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

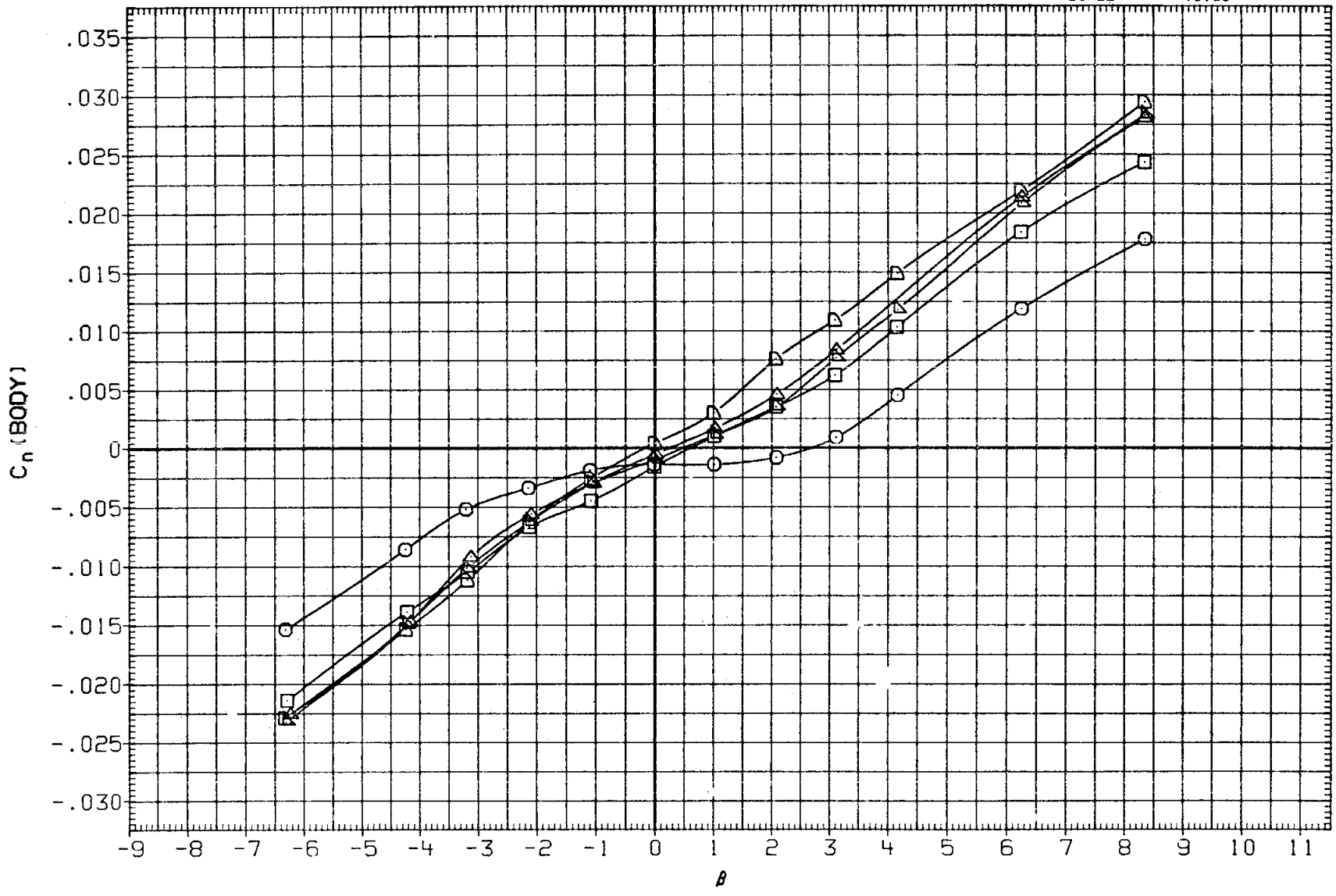

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	DATA NOT AVAILABLE		.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

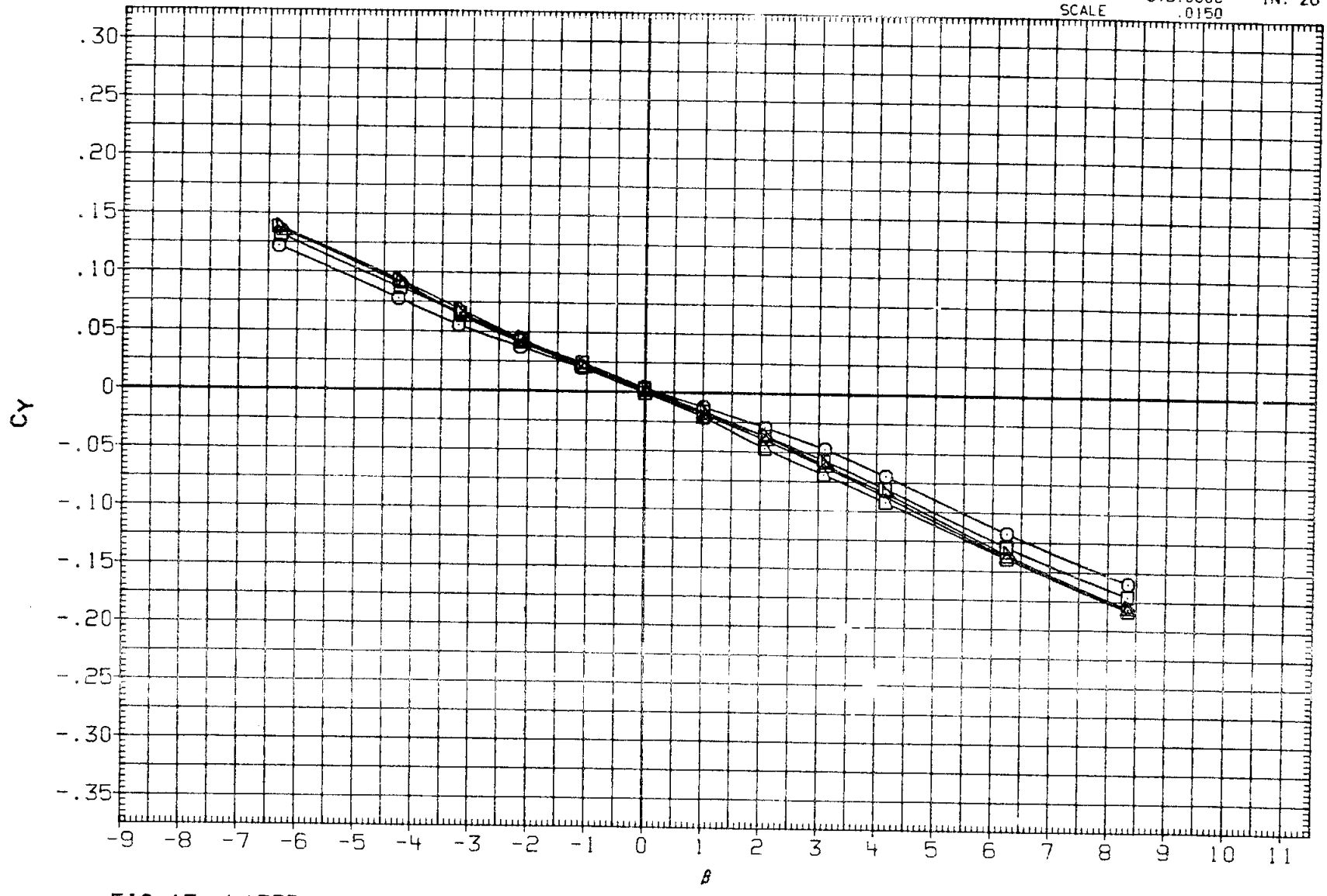

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◸	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

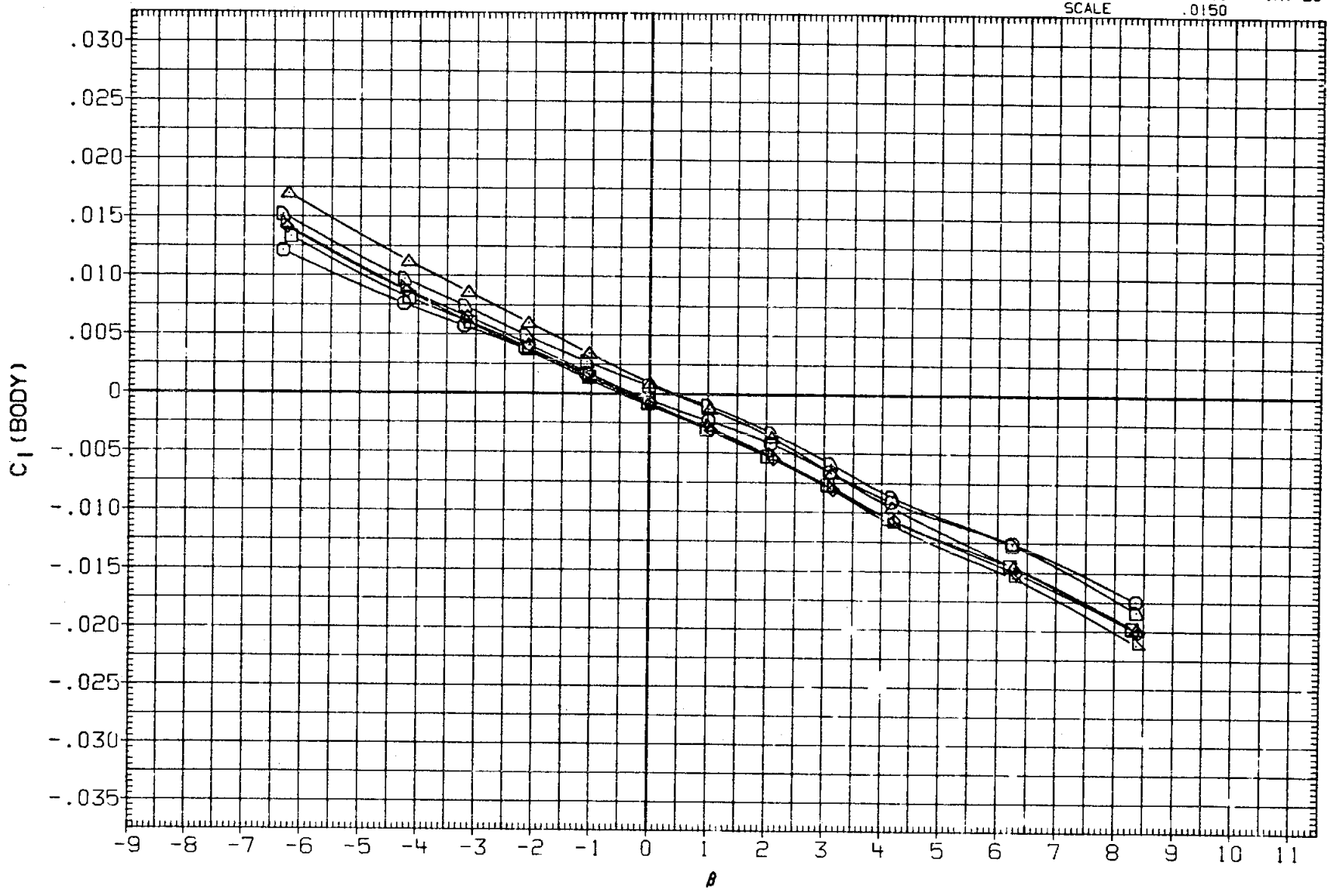

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

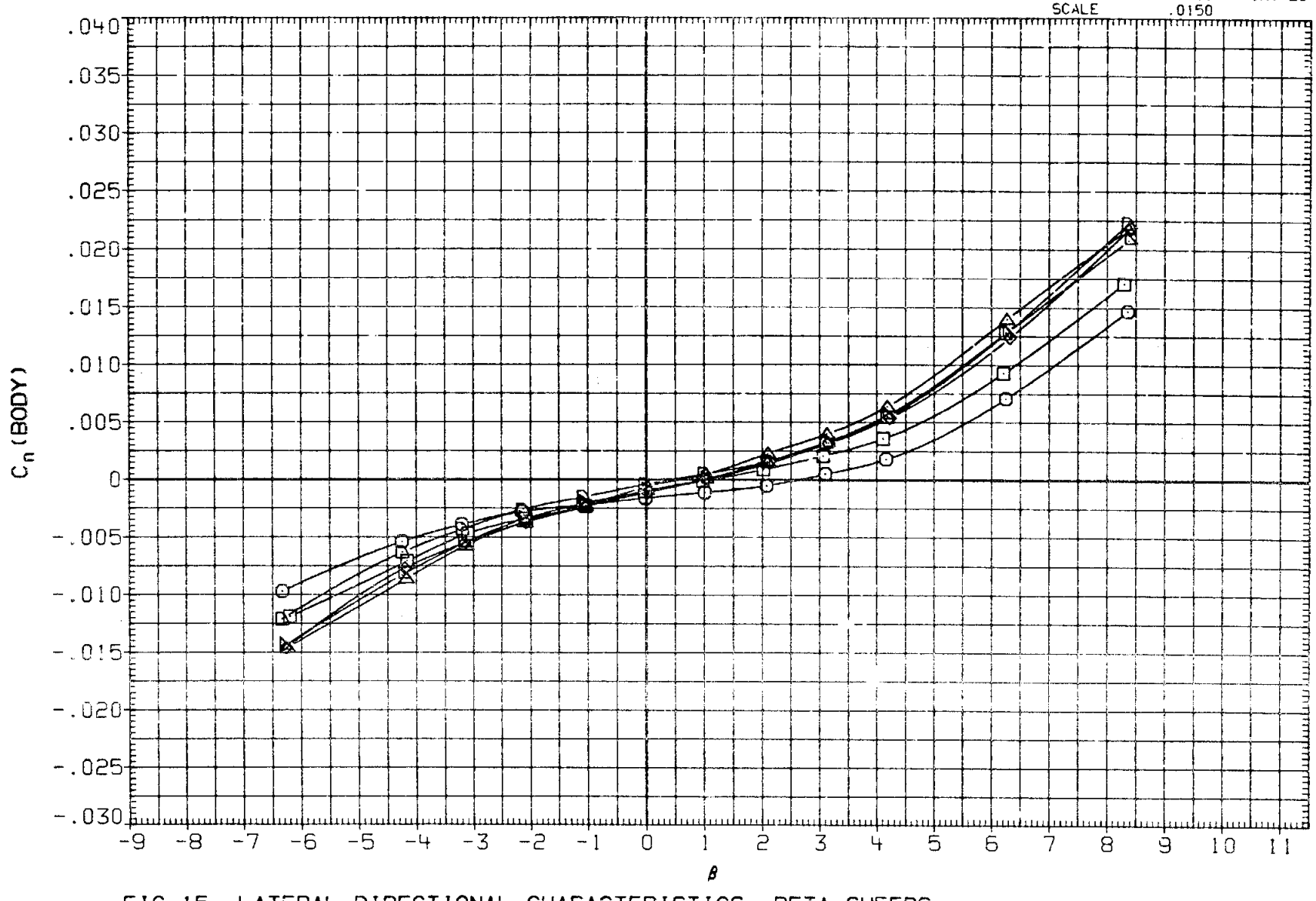

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B112	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	5.000	.000
R2B173	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	5.000	.000
R2B010	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	5.000	.000
R2B181	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	5.000	.000
R2B088	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	5.000	.000
R2B189	▷	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

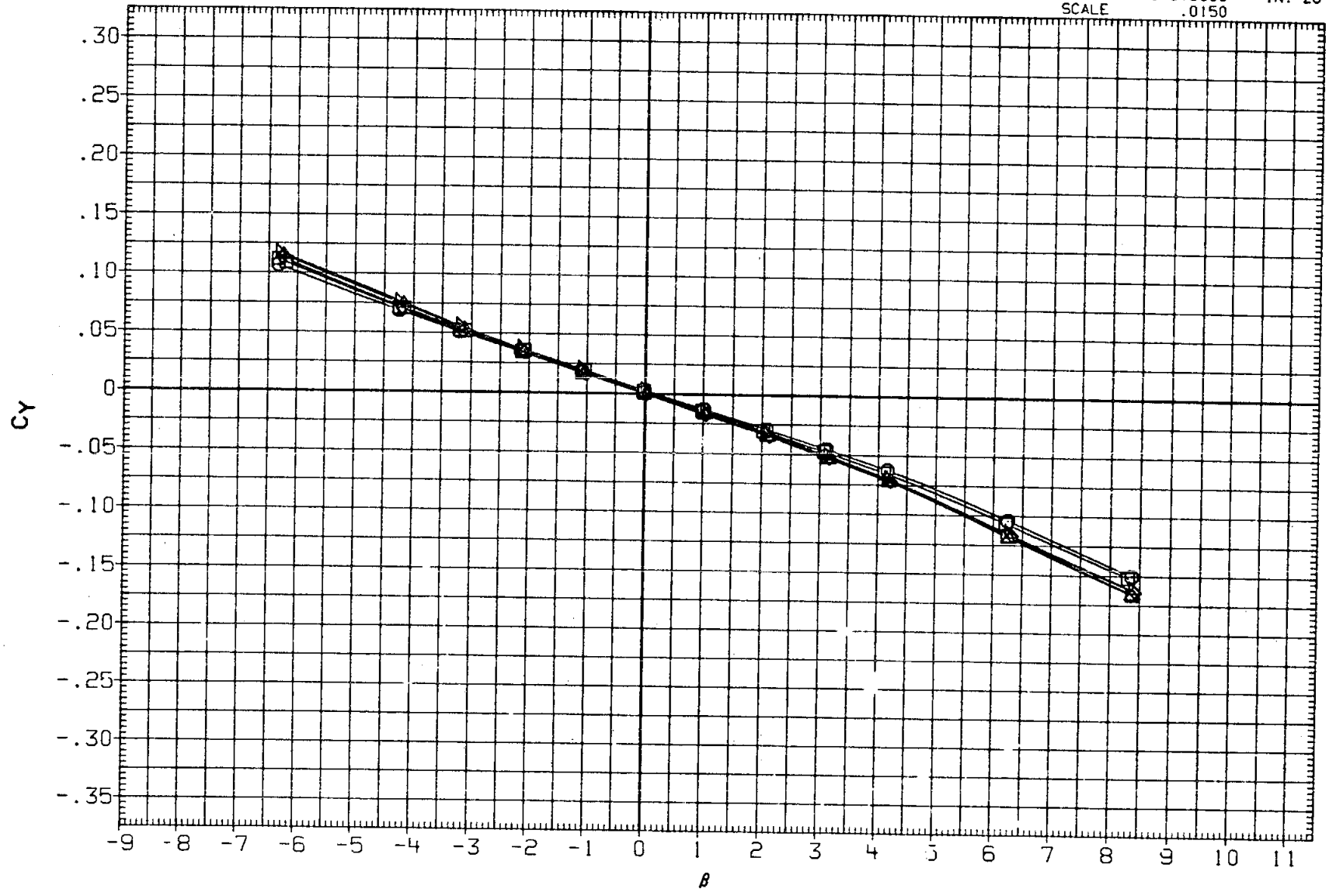

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R28170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R28003	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R28083	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R28186	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

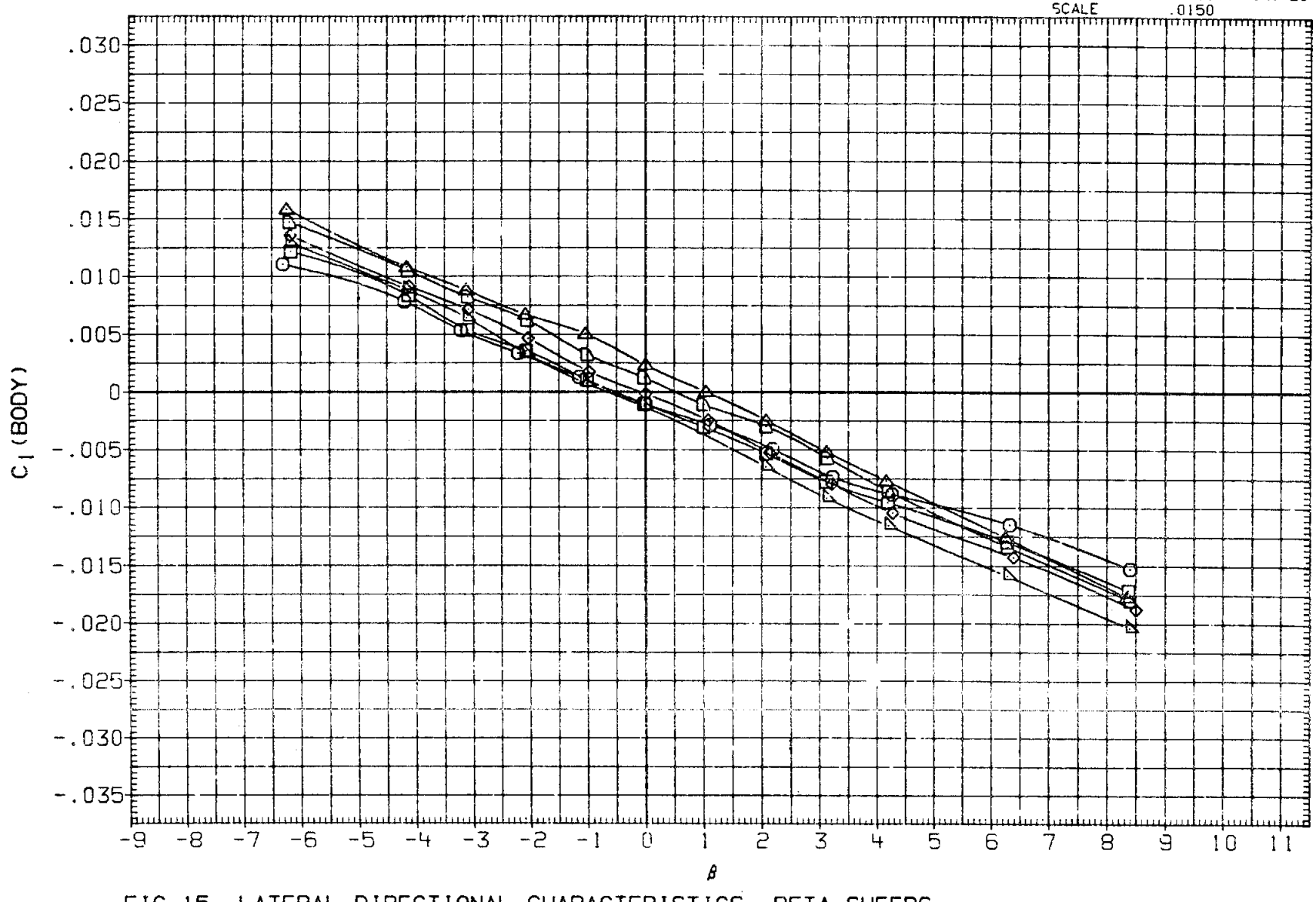

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R2B170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R2B003	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R2B083	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R2B186	D	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

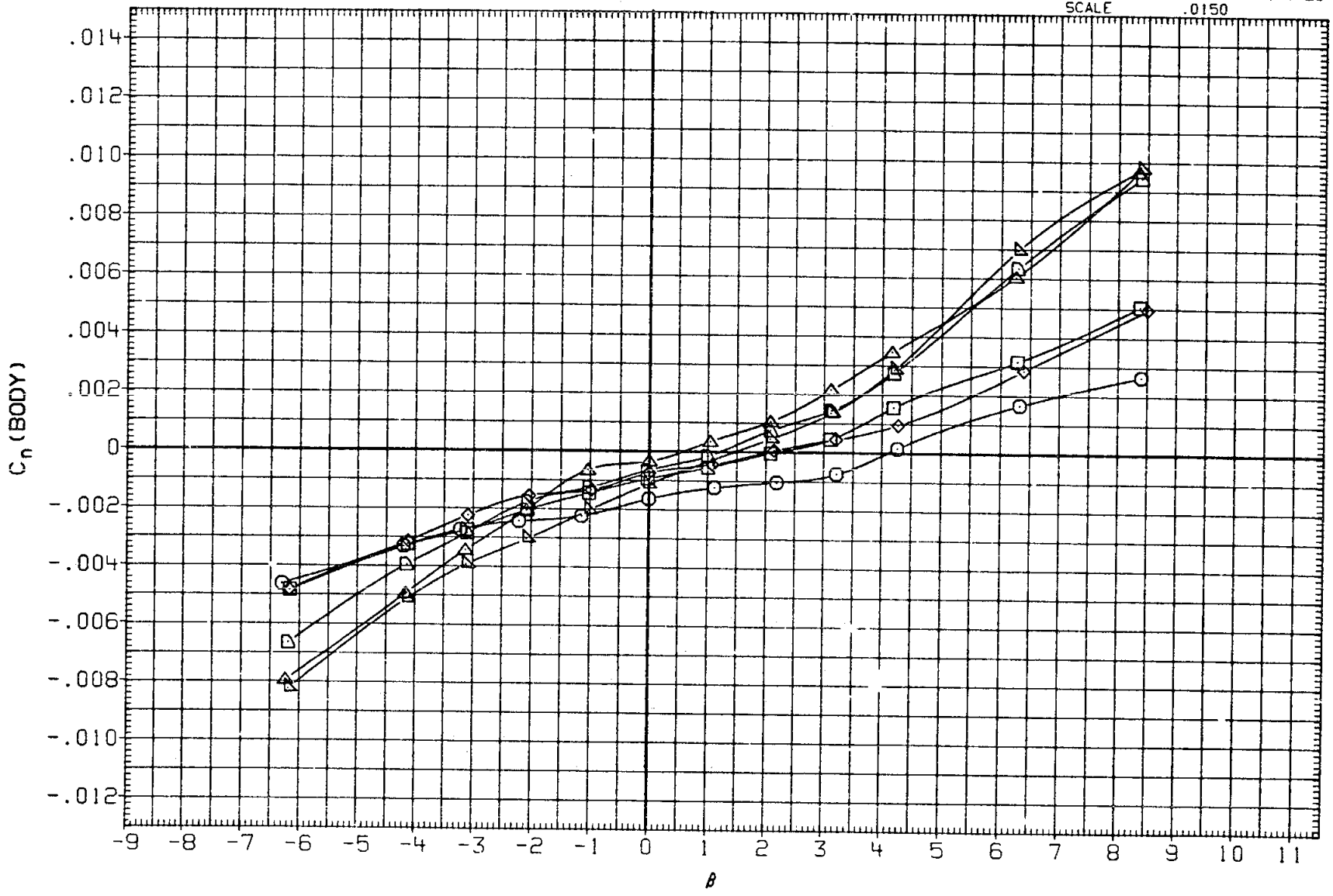

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28107	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	10.000	.000
R28170	□	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	10.000	.000
R28003	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28178	△	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	10.000	.000
R28083	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	10.000	.000
R28186	▷	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

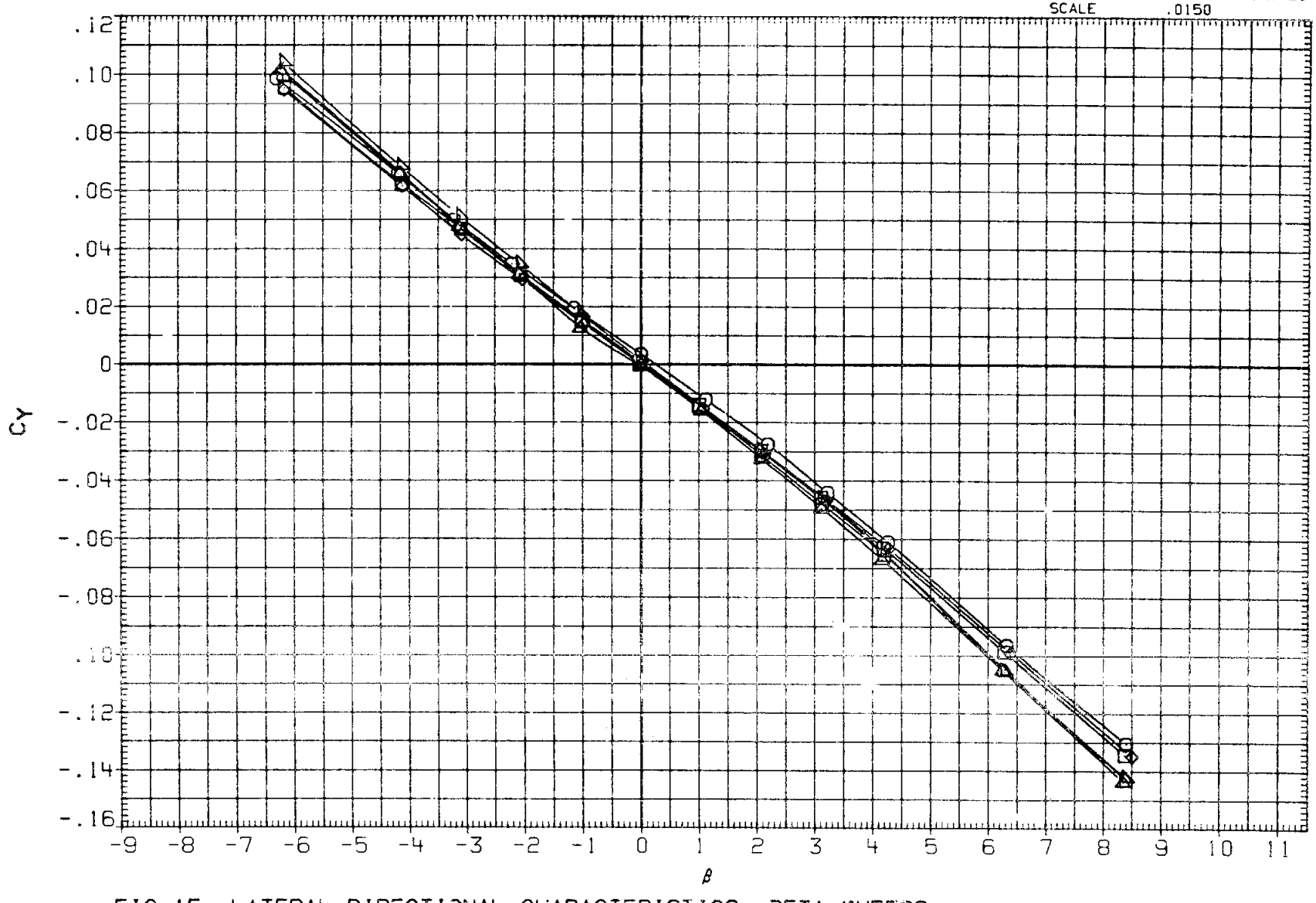

FIG.15 LATERAL-DIRECTIONAL CHARACTERISTICS, BETA SWEEPS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

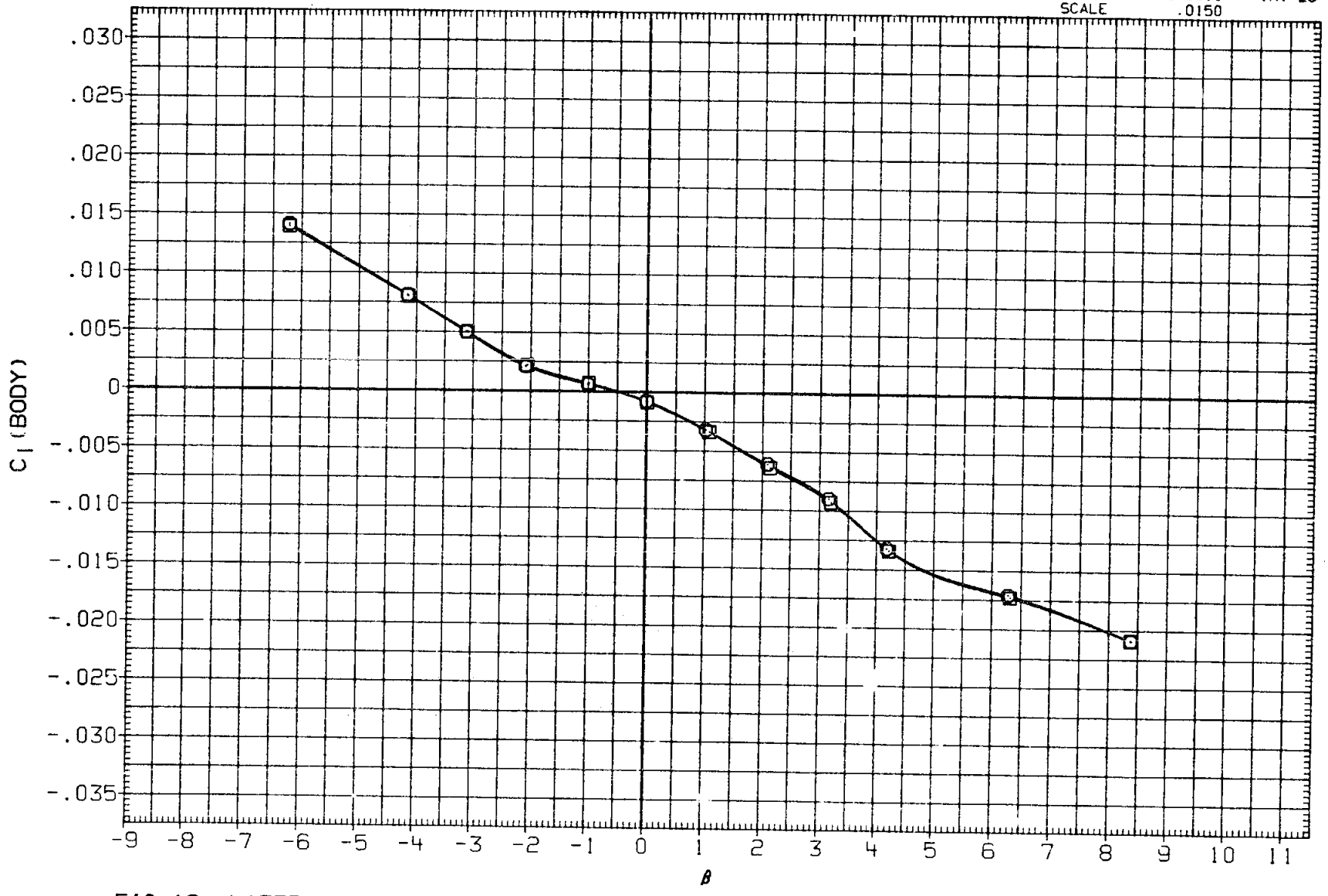

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

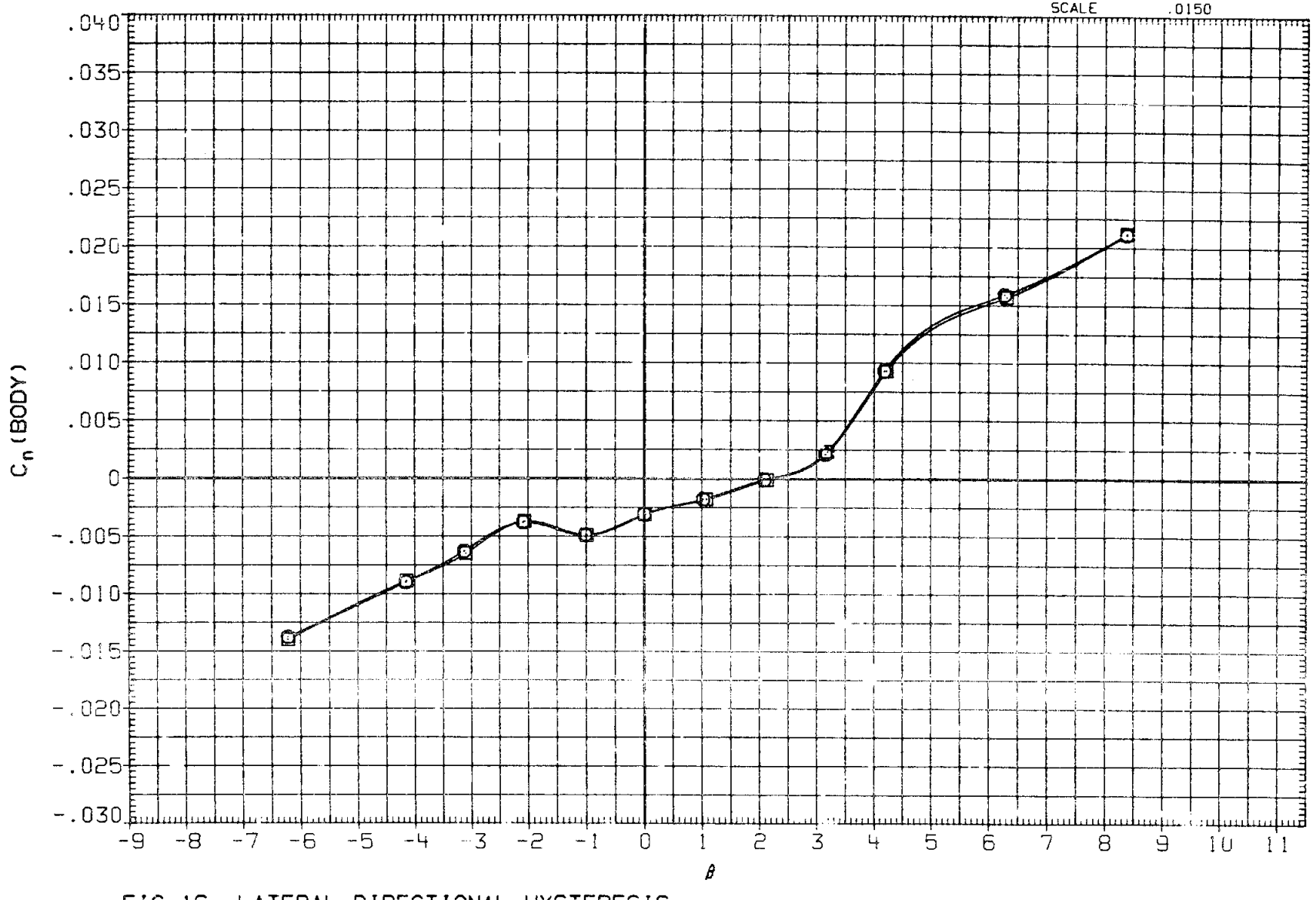

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

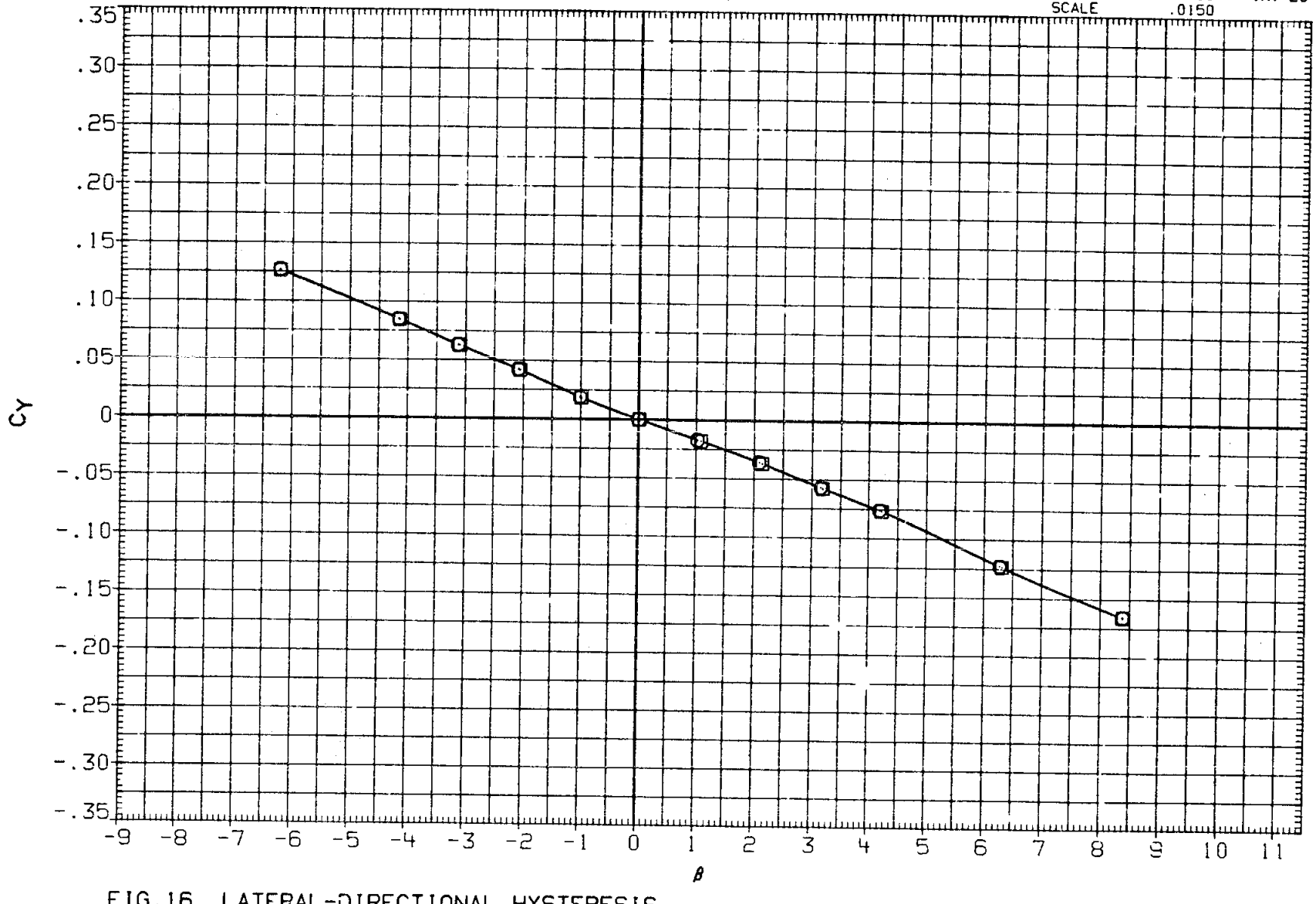

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV10!	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV10!	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

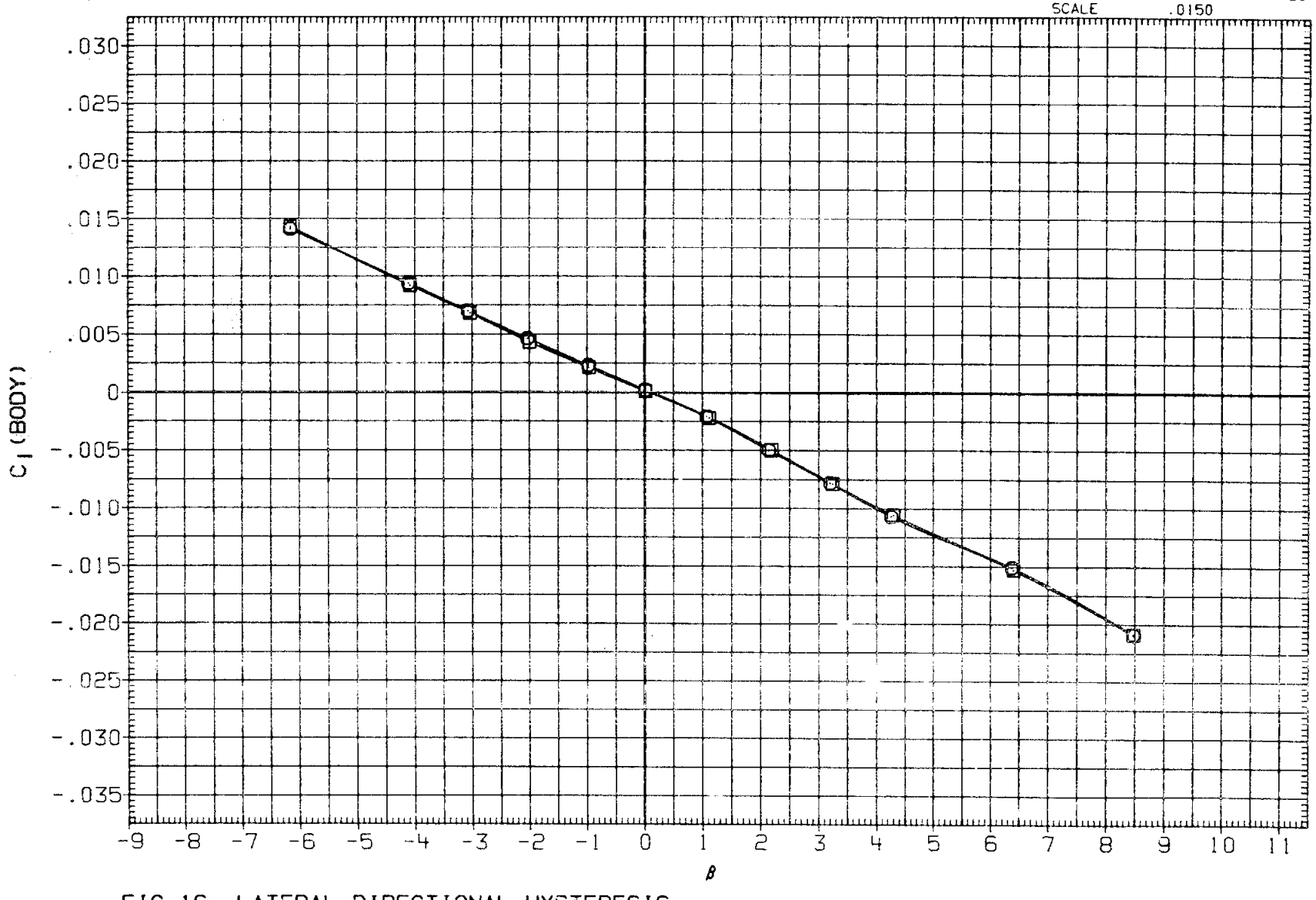

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

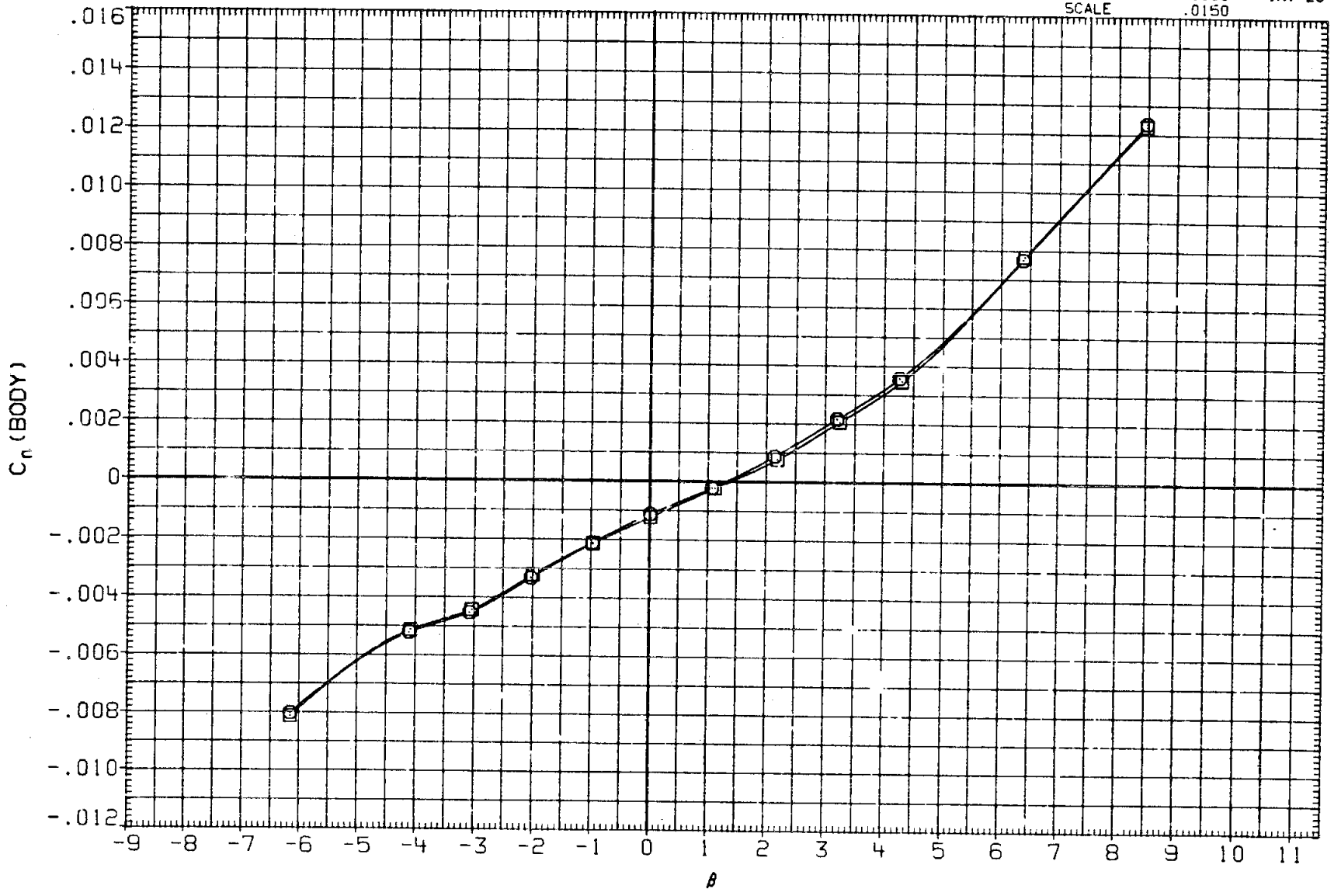

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	35.000	10.000	.000
R28004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

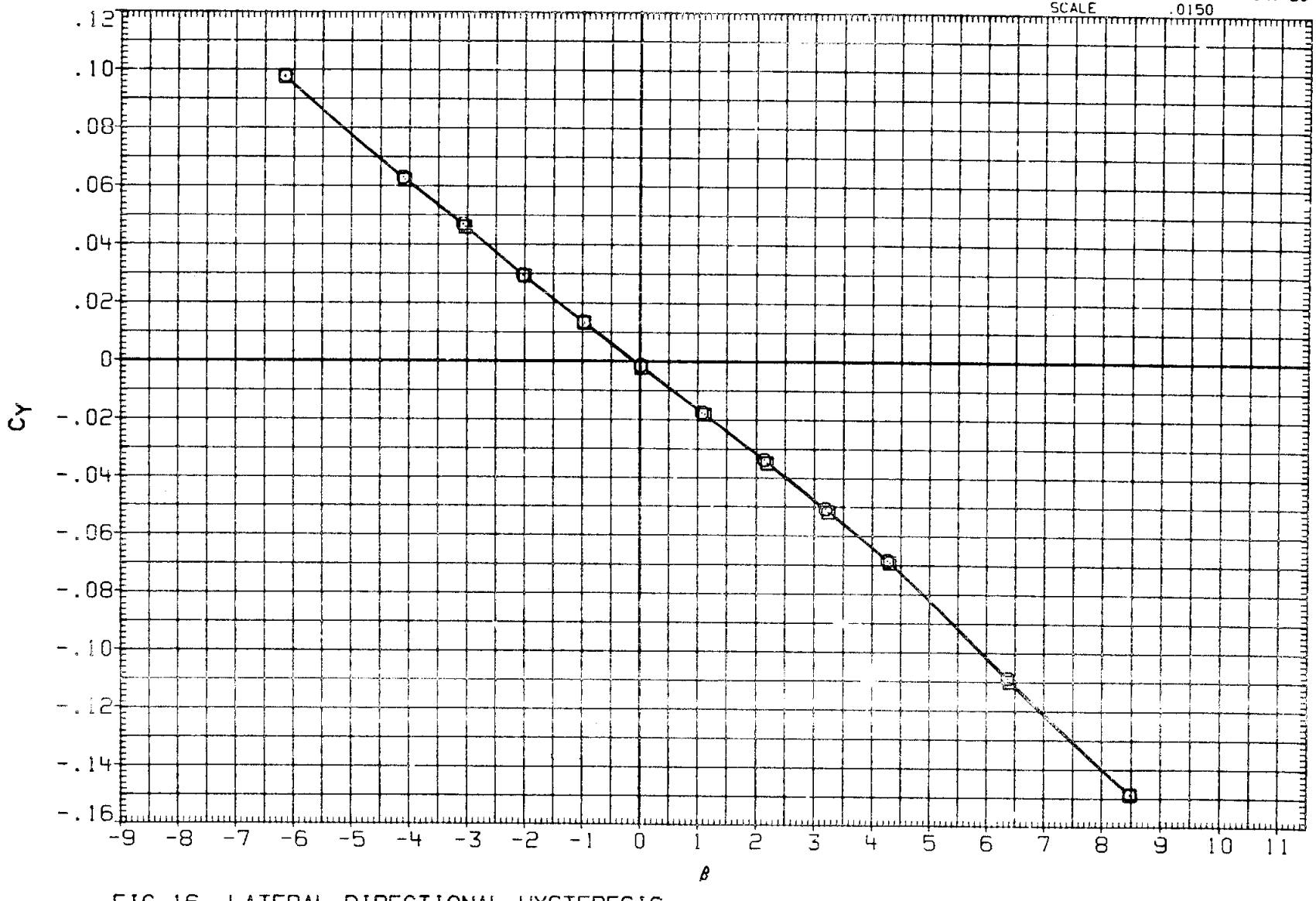

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28003	○	ARC 200-1 11(LA77) OV10!	- TO + BETA	.000	25.000	10.000	.000
R28004	□	ARC 200-1 11(LA77) OV10!	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

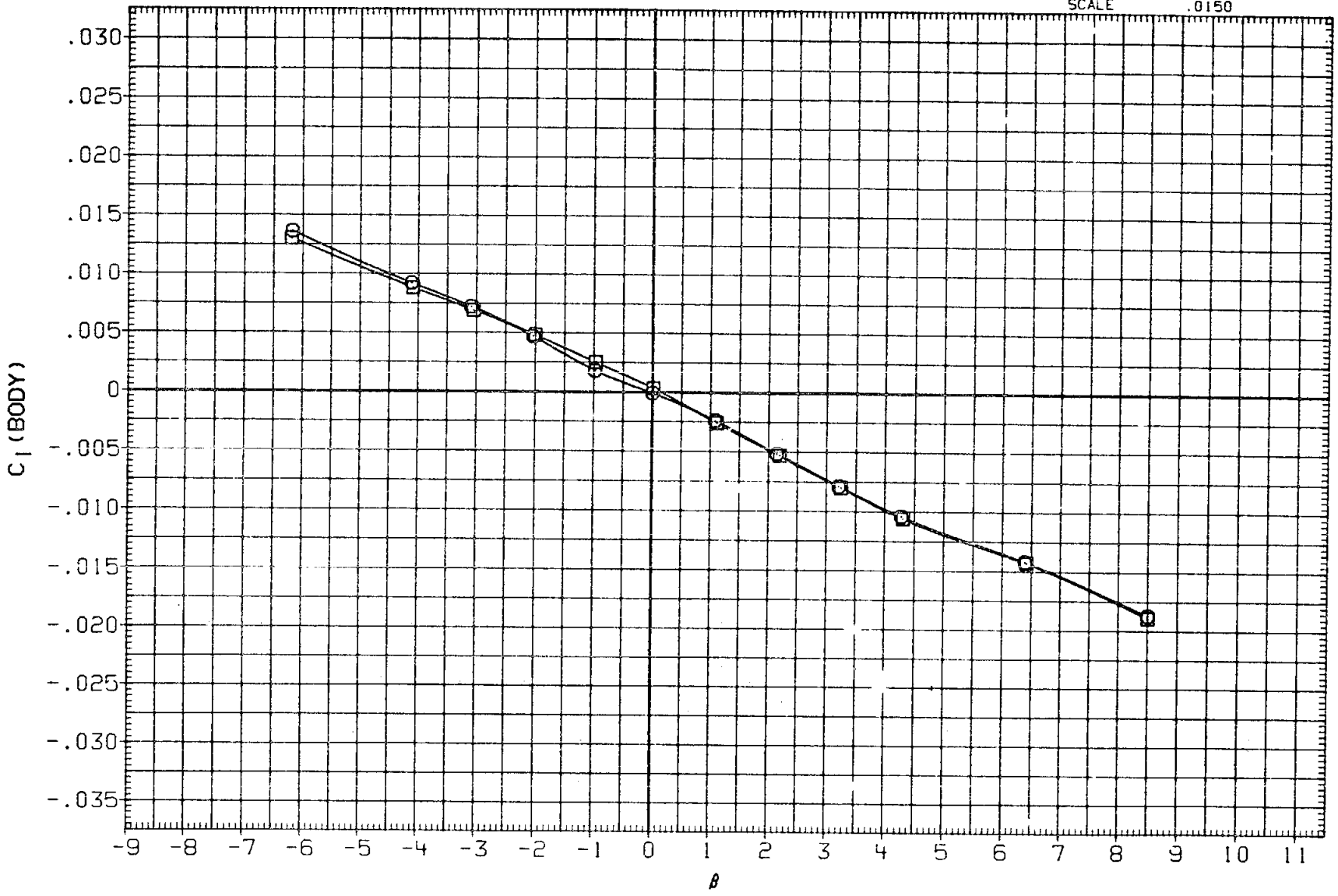

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R28004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

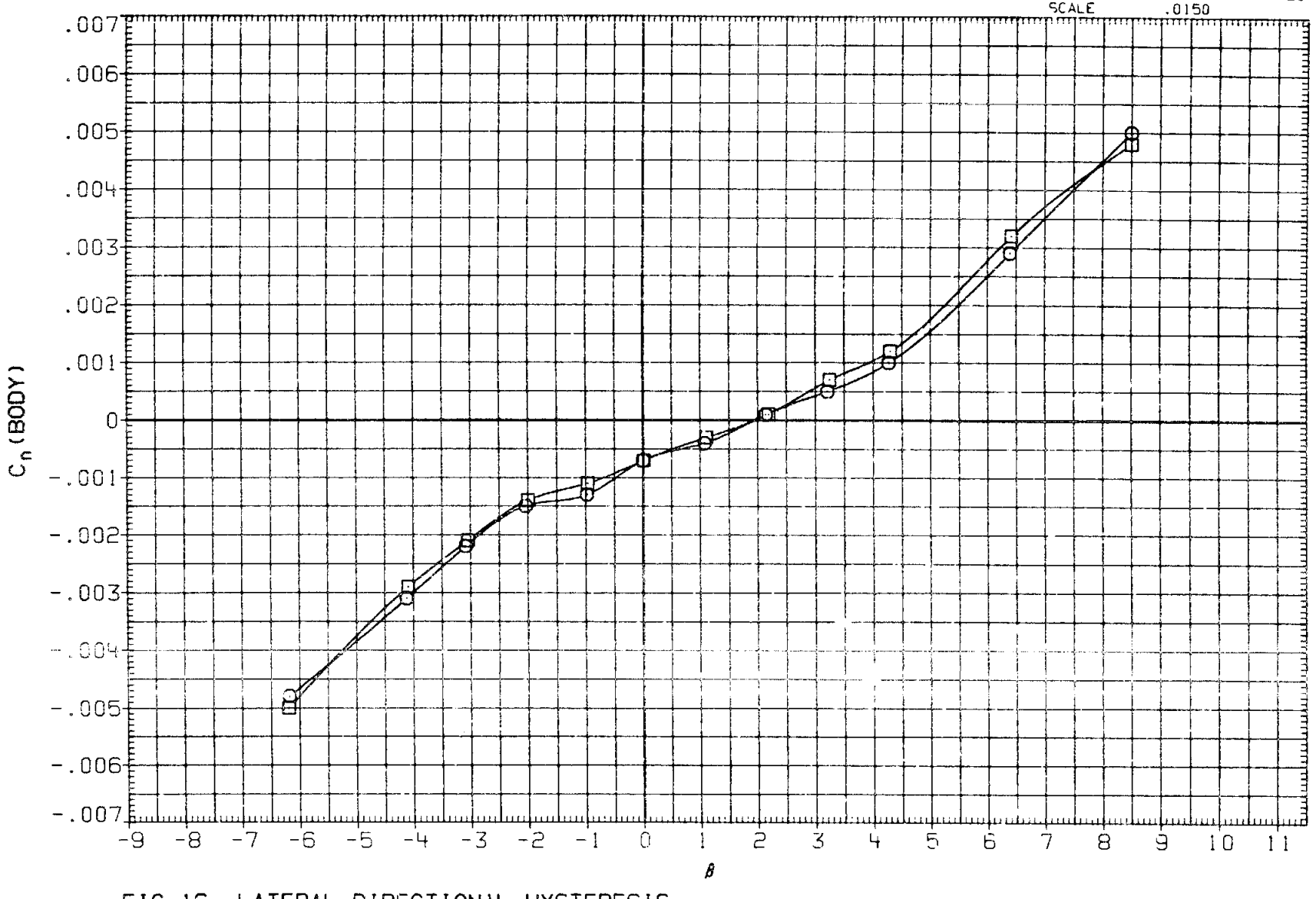

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B003	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	10.000	.000
R2B004	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

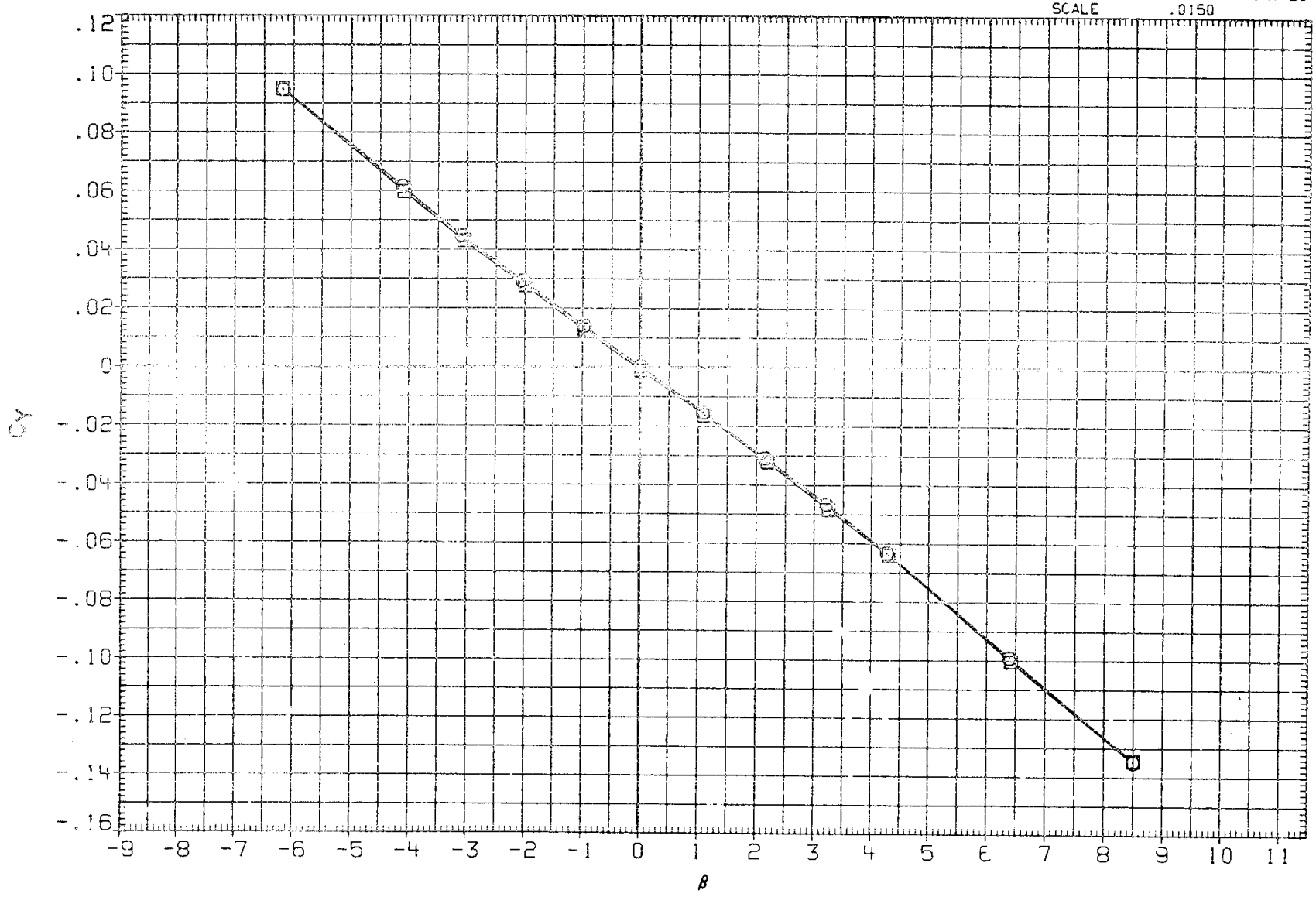

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	◭	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	◮	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

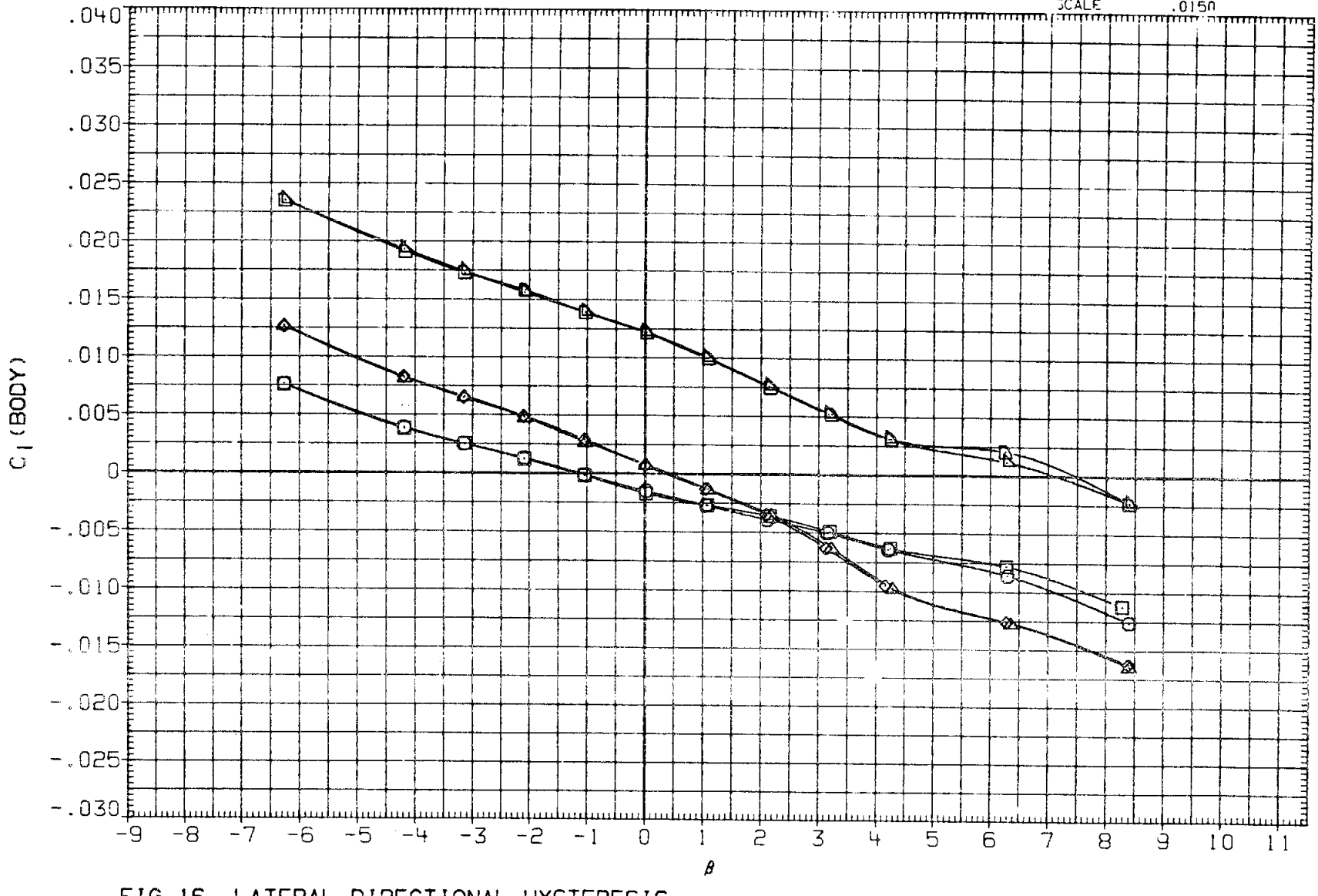

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	◻	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

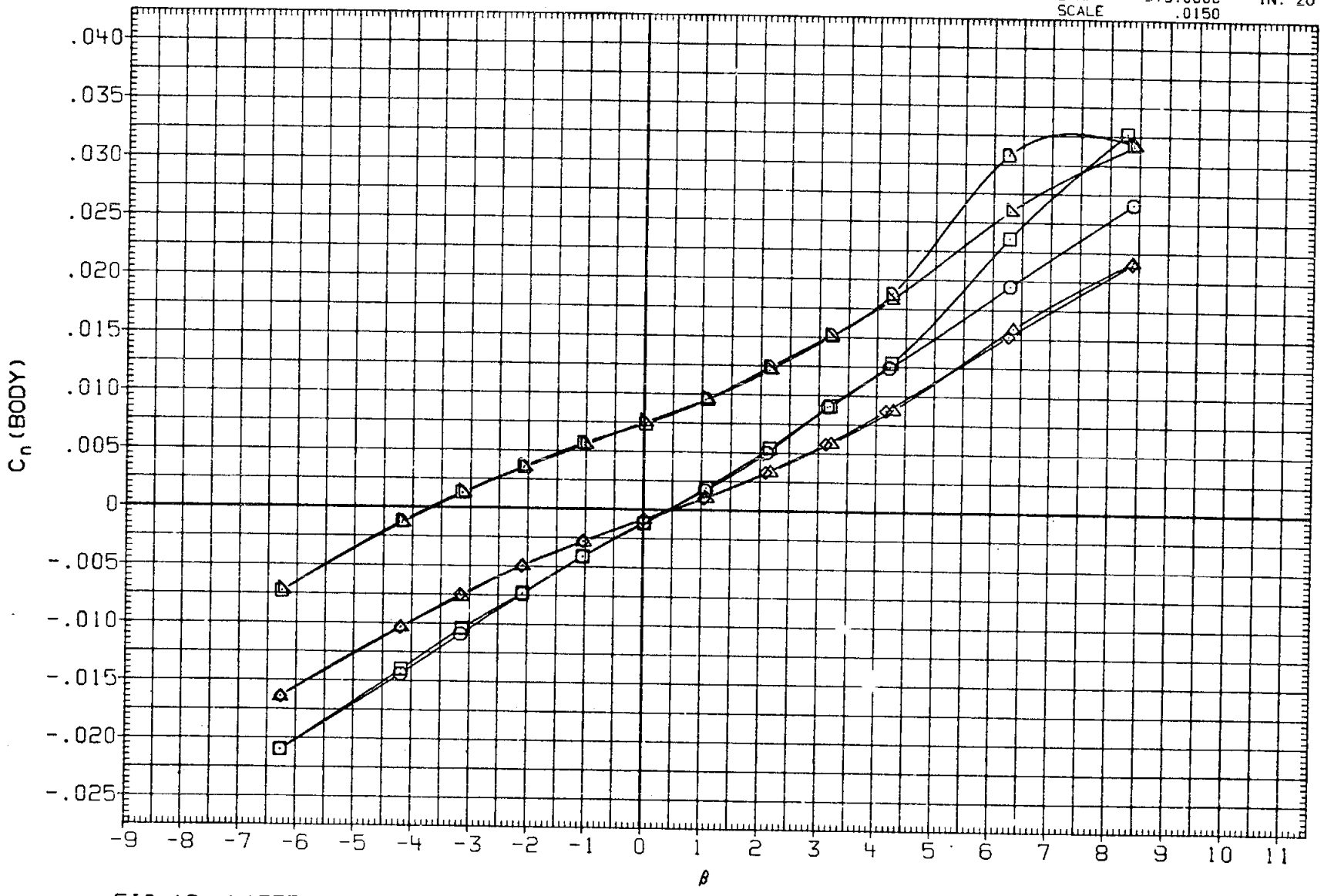

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILERON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	▷	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

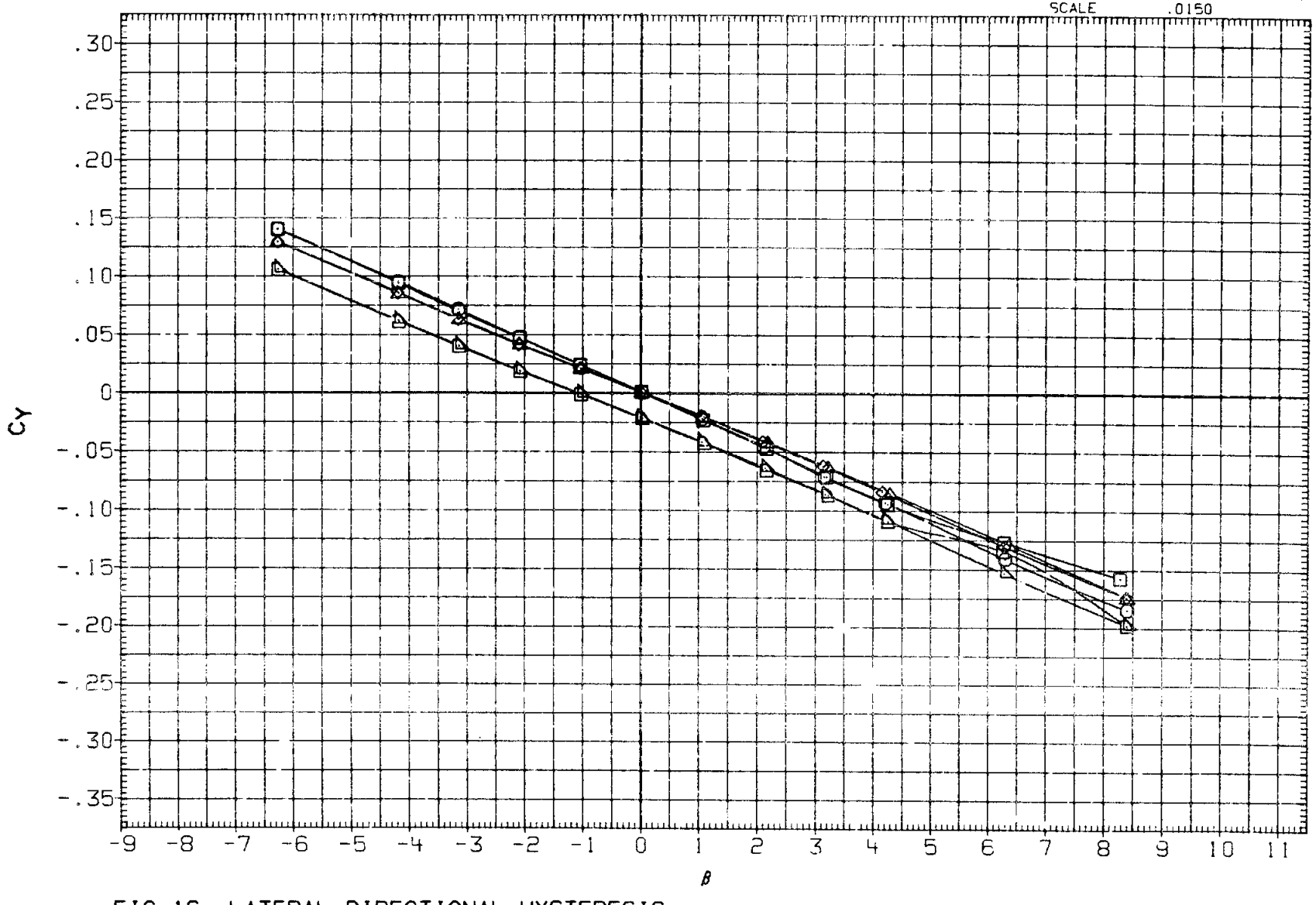

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	AILRON	ELEVON	SPDBRK
R28010	○	DATA NOT AVAILABLE	5.000	.000	.000	25.000
R28011	□	DATA NOT AVAILABLE	5.000	.000	.000	25.000
R28012	◇	ARC 200-1 11(LA77) OV101 - TO + BETA	5.000	.000	-10.000	25.000
R28013	△	DATA NOT AVAILABLE	5.000	.000	-10.000	25.000
R28014	◺	DATA NOT AVAILABLE	5.000	5.000	-10.000	25.000
R28015	D	DATA NOT AVAILABLE	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

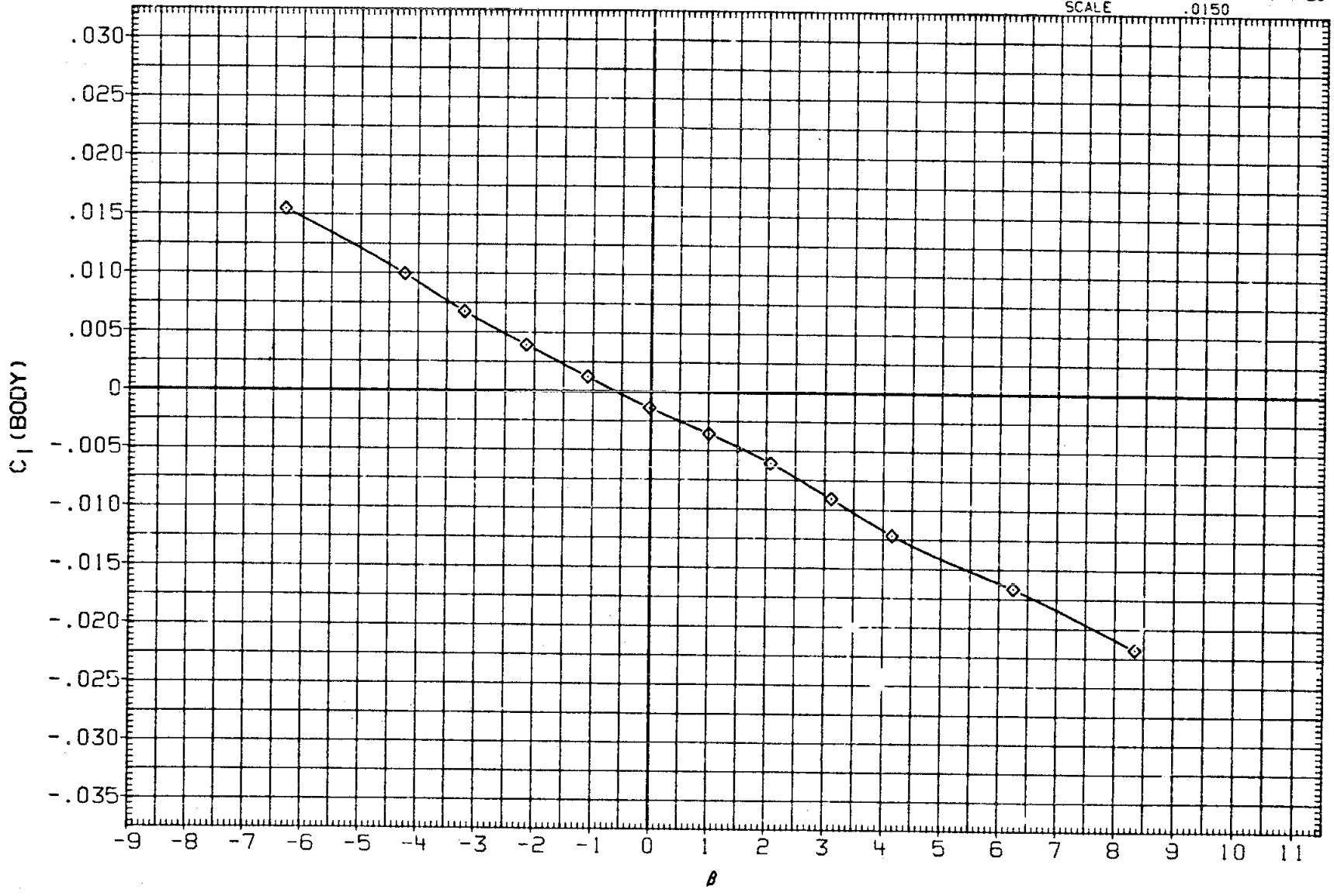

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	AILRON	ELEVON	SPDBRK
R2B010	○	DATA NOT AVAILABLE	5.000	.000	.000	25.000
R2B011	□	DATA NOT AVAILABLE	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101 - TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	DATA NOT AVAILABLE	5.000	.000	-10.000	25.000
R2B014	◺	DATA NOT AVAILABLE	5.000	5.000	-10.000	25.000
R2B015	⌂	DATA NOT AVAILABLE	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

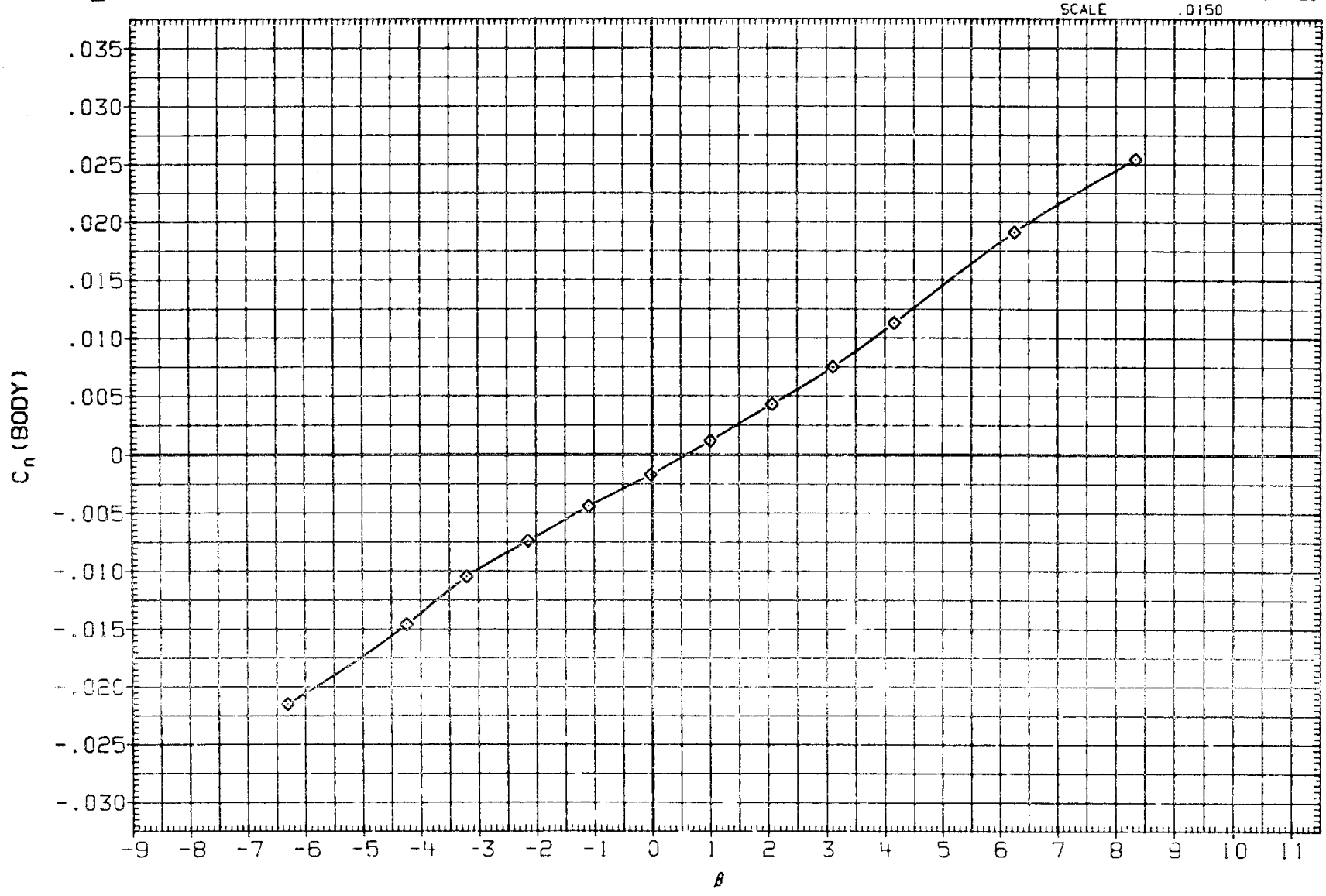

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2B010	○	DATA NOT AVAILABLE
R2B011	□	DATA NOT AVAILABLE
R2B012	◇	ARC 200-1 11(LA77) OV101
R2B013	△	DATA NOT AVAILABLE
R2B014	◺	DATA NOT AVAILABLE
R2B015	◗	DATA NOT AVAILABLE

- TO + BETA

ALPHA	AILRON	ELEVON	SPOBRK
5.000	.000	.000	25.000
5.000	.000	.000	25.000
5.000	.000	-10.000	25.000
5.000	.000	-10.000	25.000
5.000	5.000	-10.000	25.000
5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

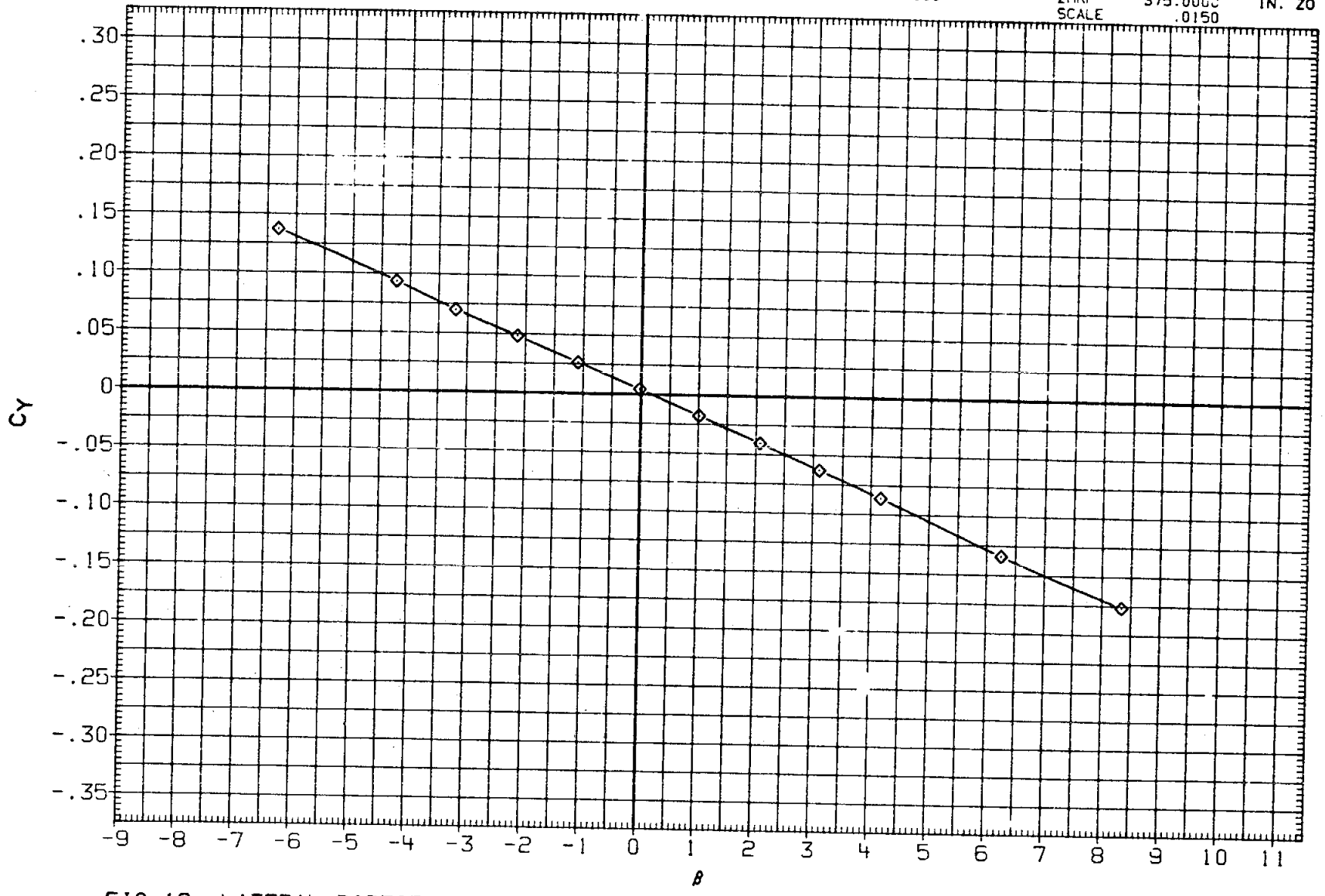

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	▷	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	D	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

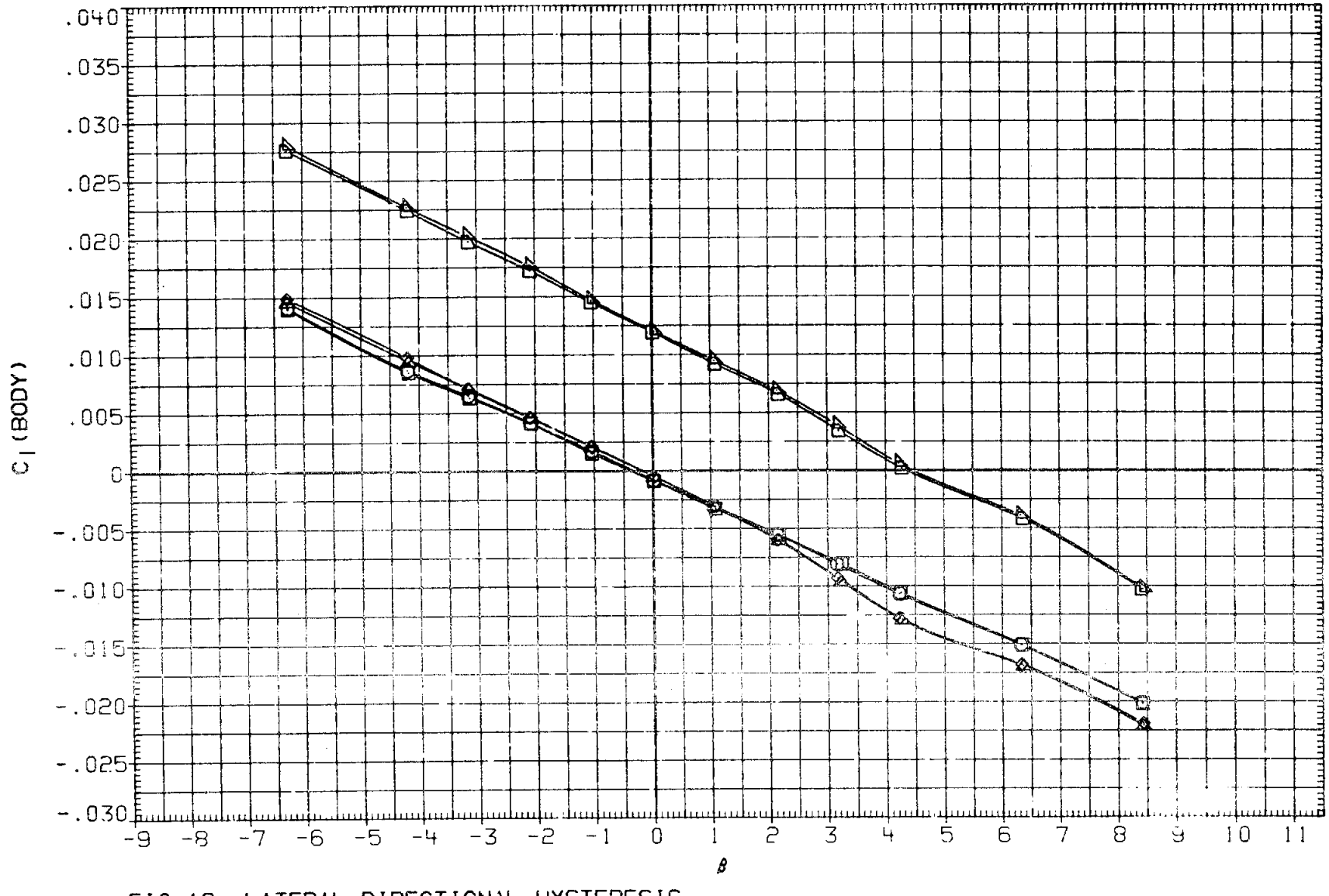

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	◁	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	▷	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

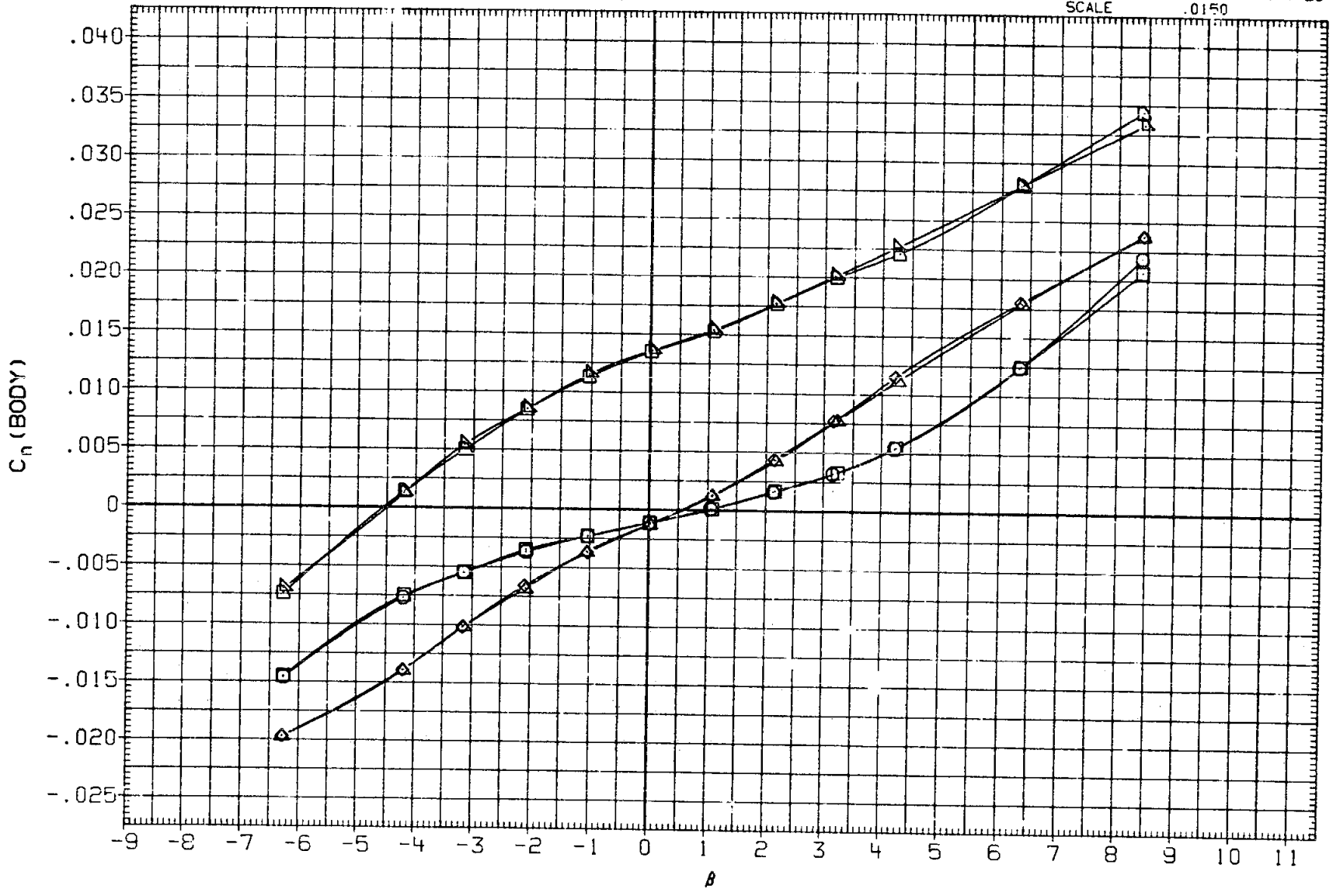

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILERON	ELEVON	SPDBRK
R2B010	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B011	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B012	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B013	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B014	◺	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	5.000	-10.000	25.000
R2B015	D	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	5.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

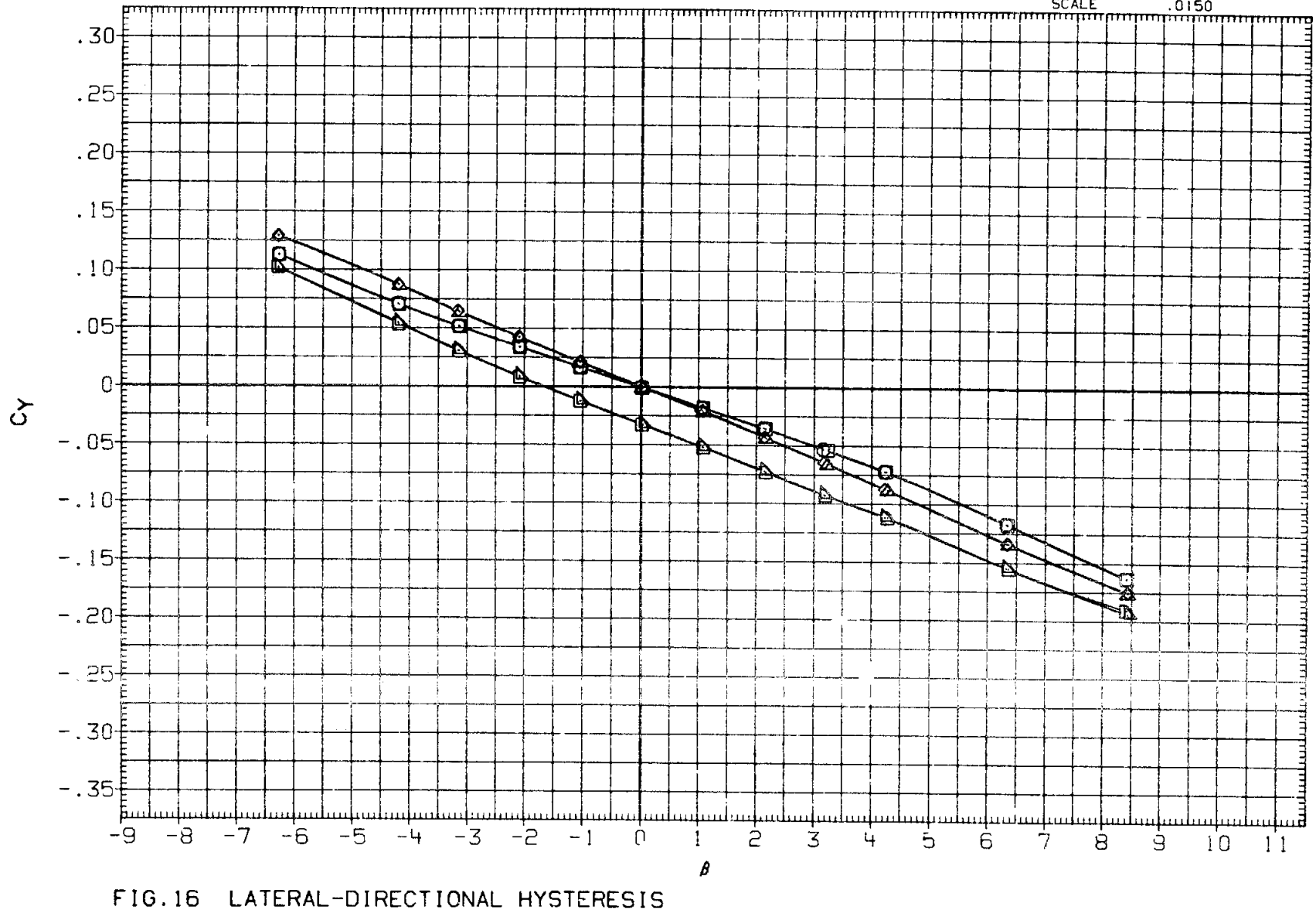

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B031	○	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B032	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000
R2B035	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B036	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

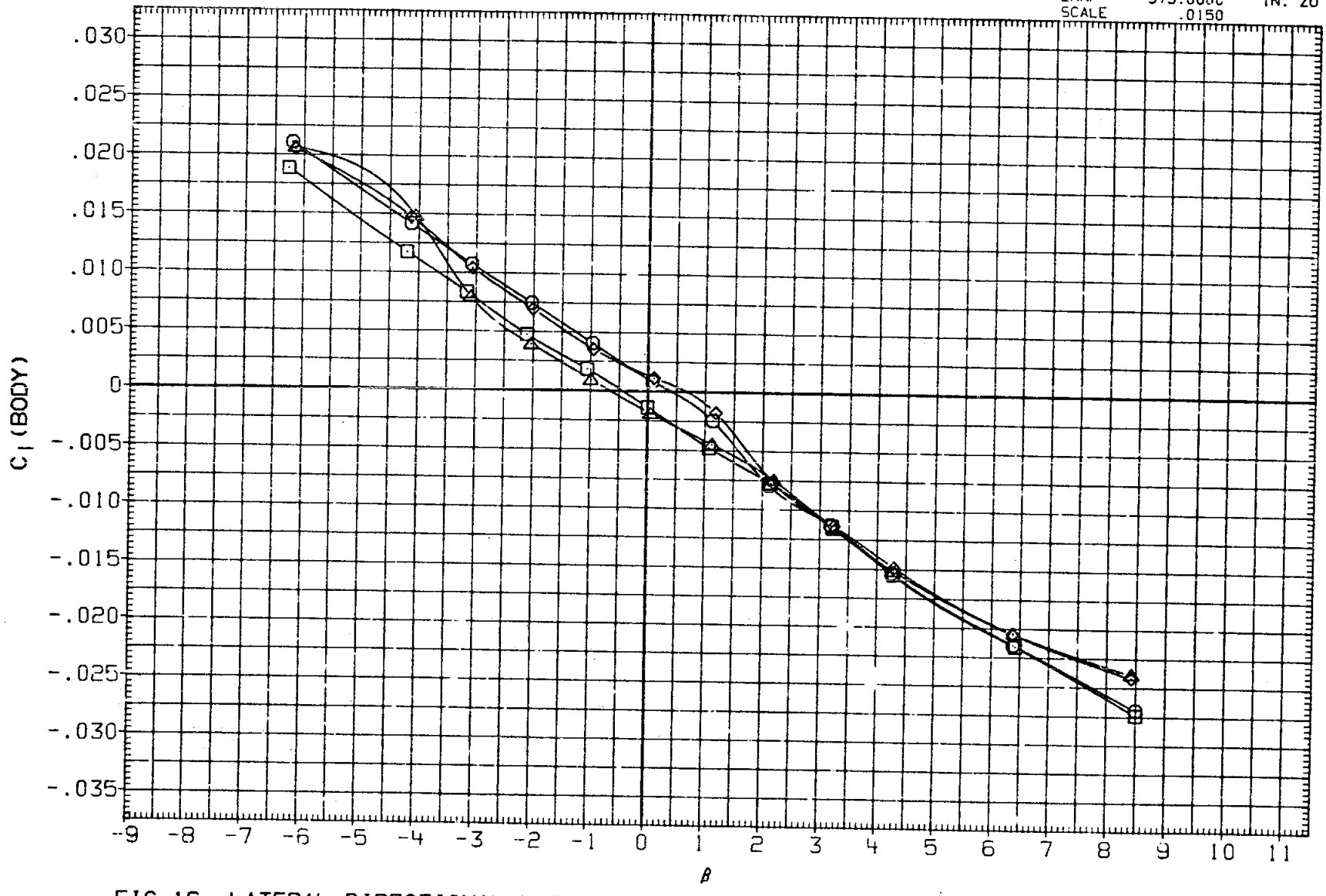

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B031	○	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B032	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000
R2B035	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B036	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

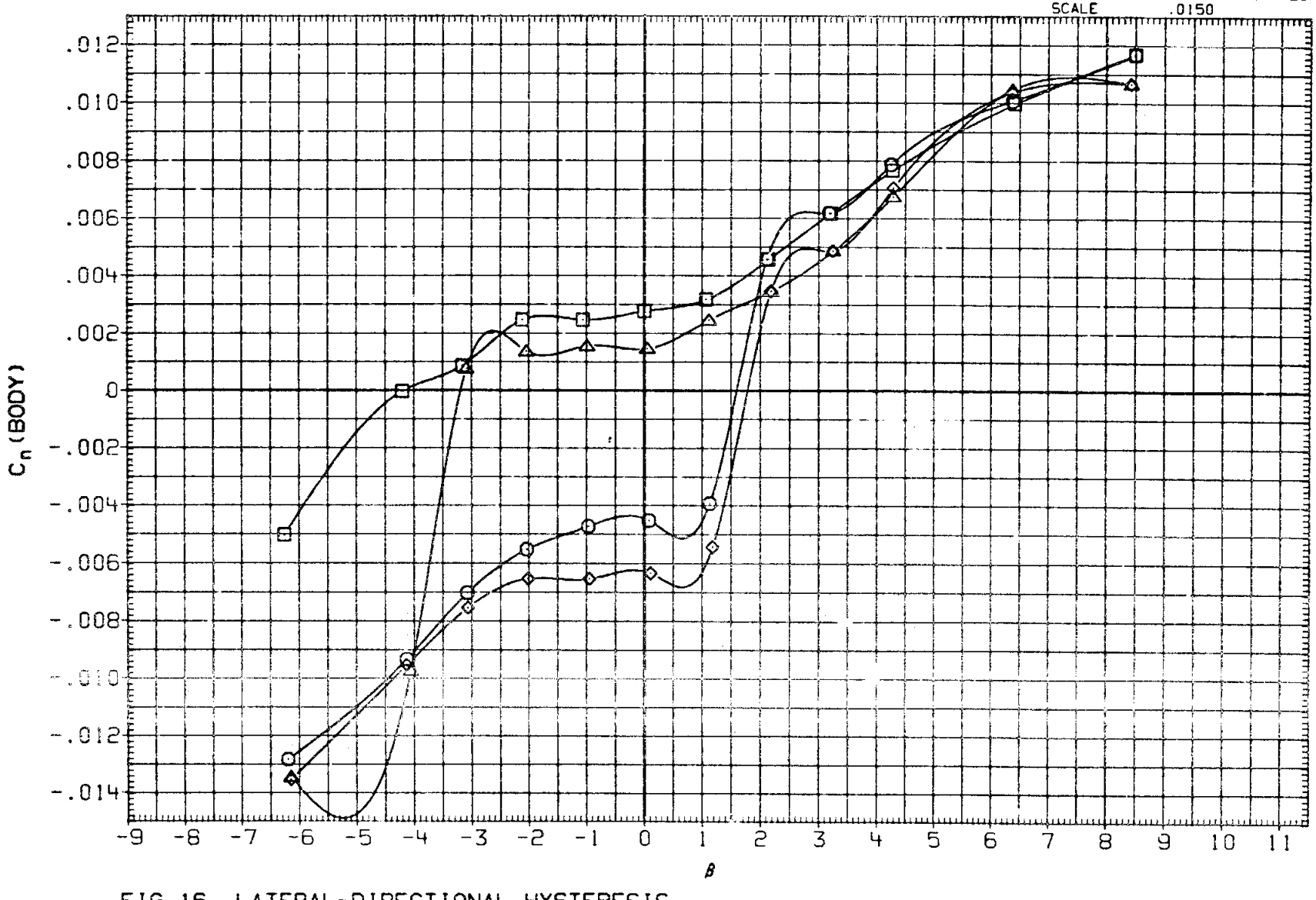

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B031	○	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B032	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000
R2B035	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	.000	25.000
R2B036	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

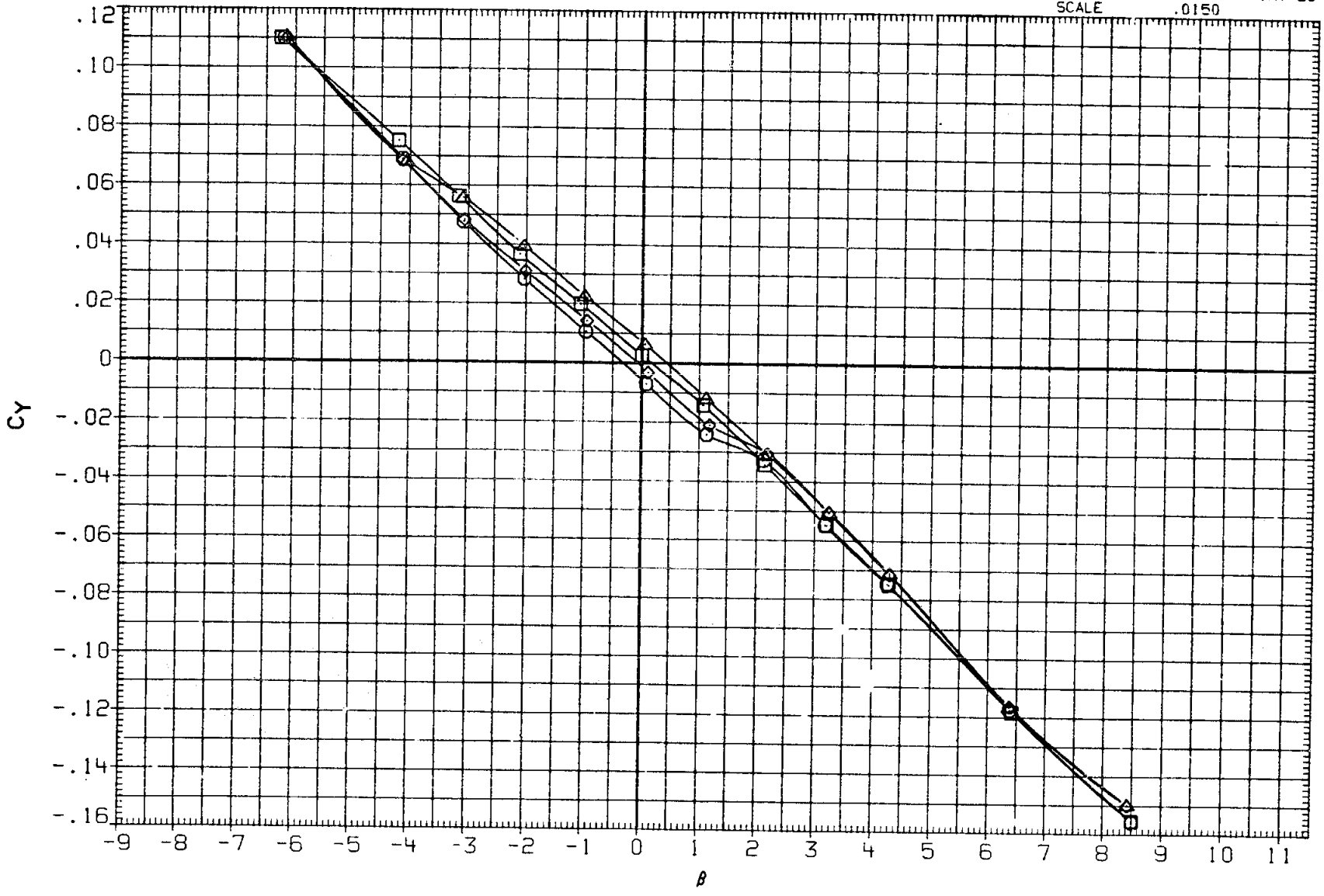

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B033	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B034	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B037	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B038	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

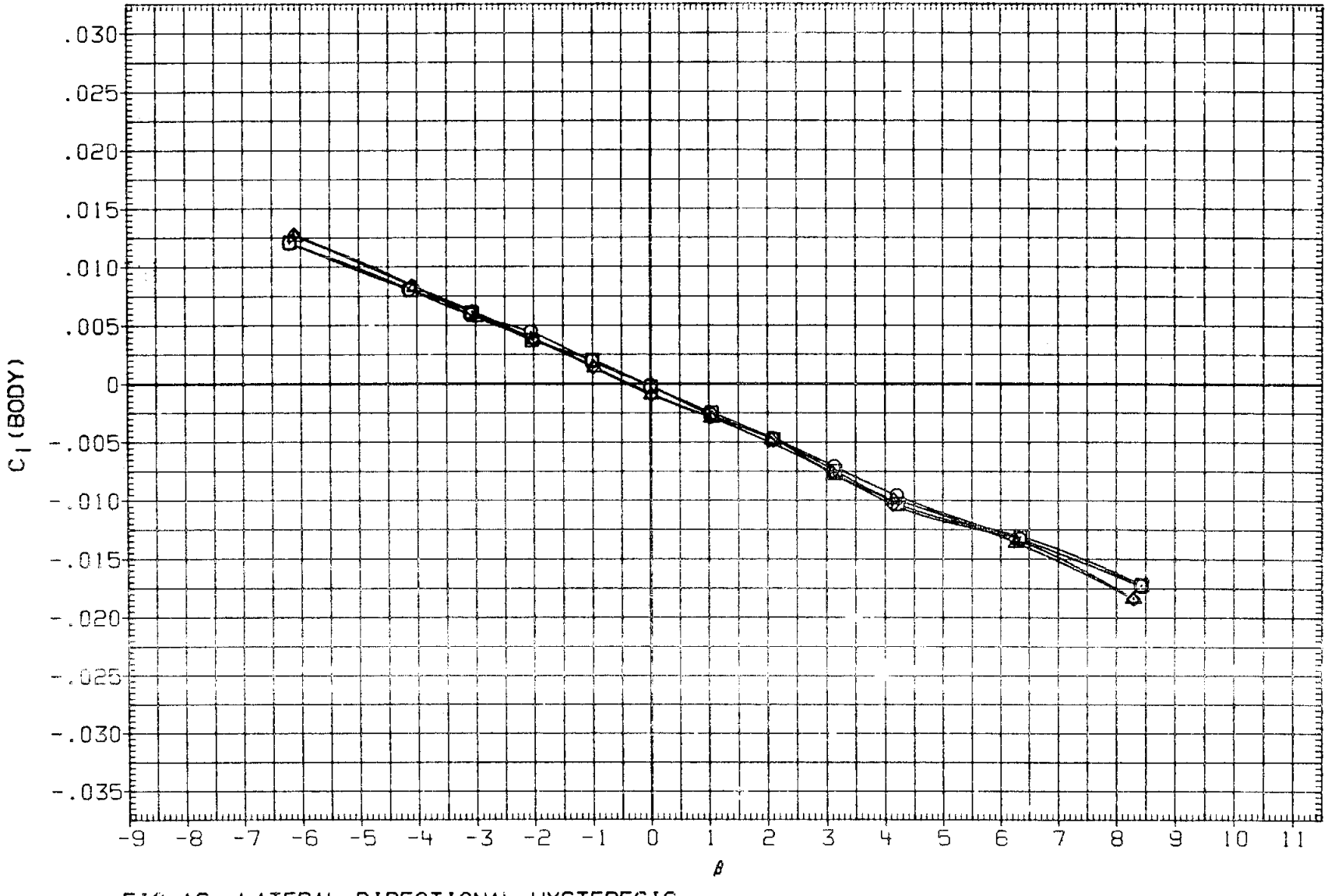

FIG.15 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B033	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B034	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R2B037	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R2B038	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

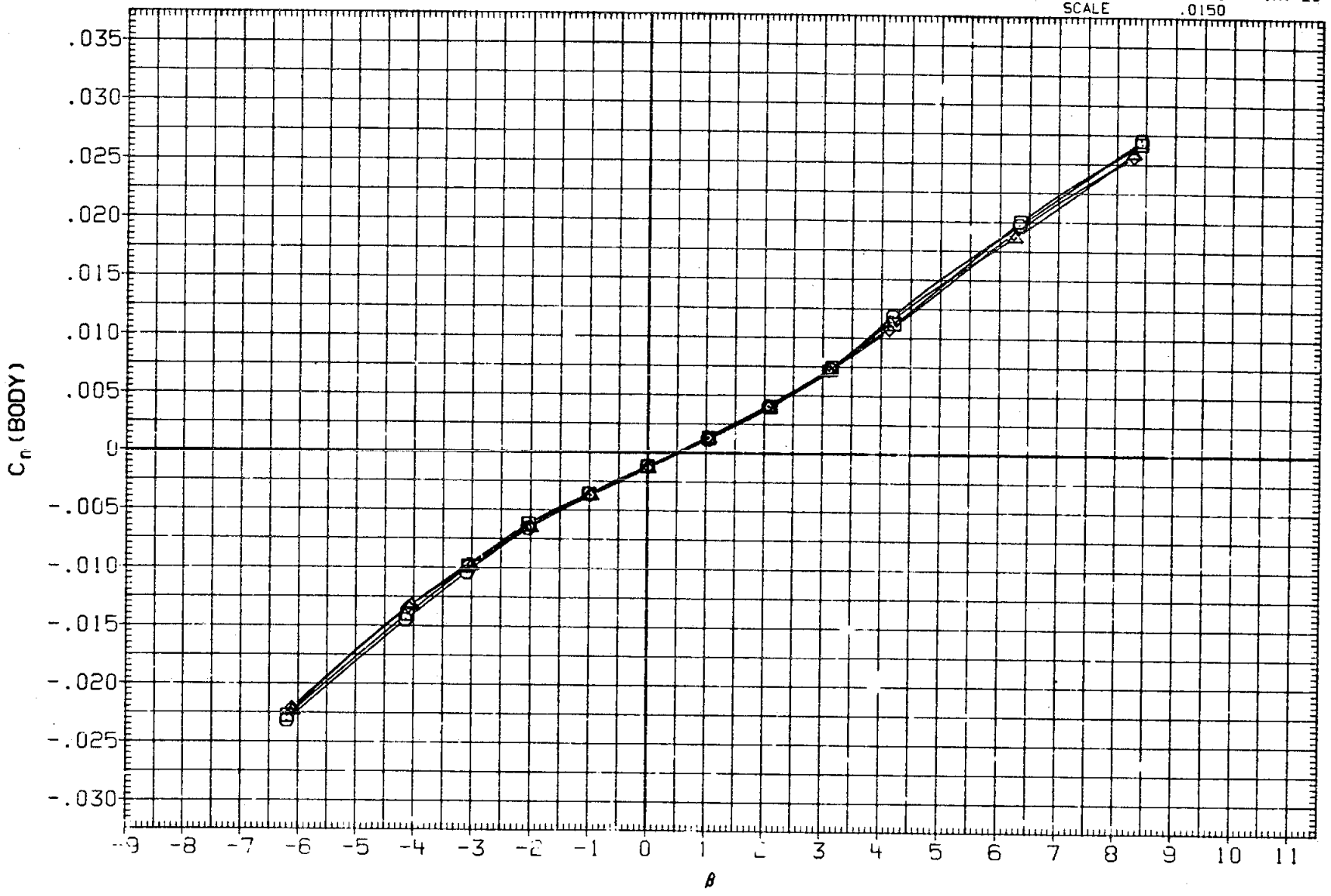

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILERON	ELEVON	SPDBRK
R28033	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R28034	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000
R28037	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	.000	25.000
R28038	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

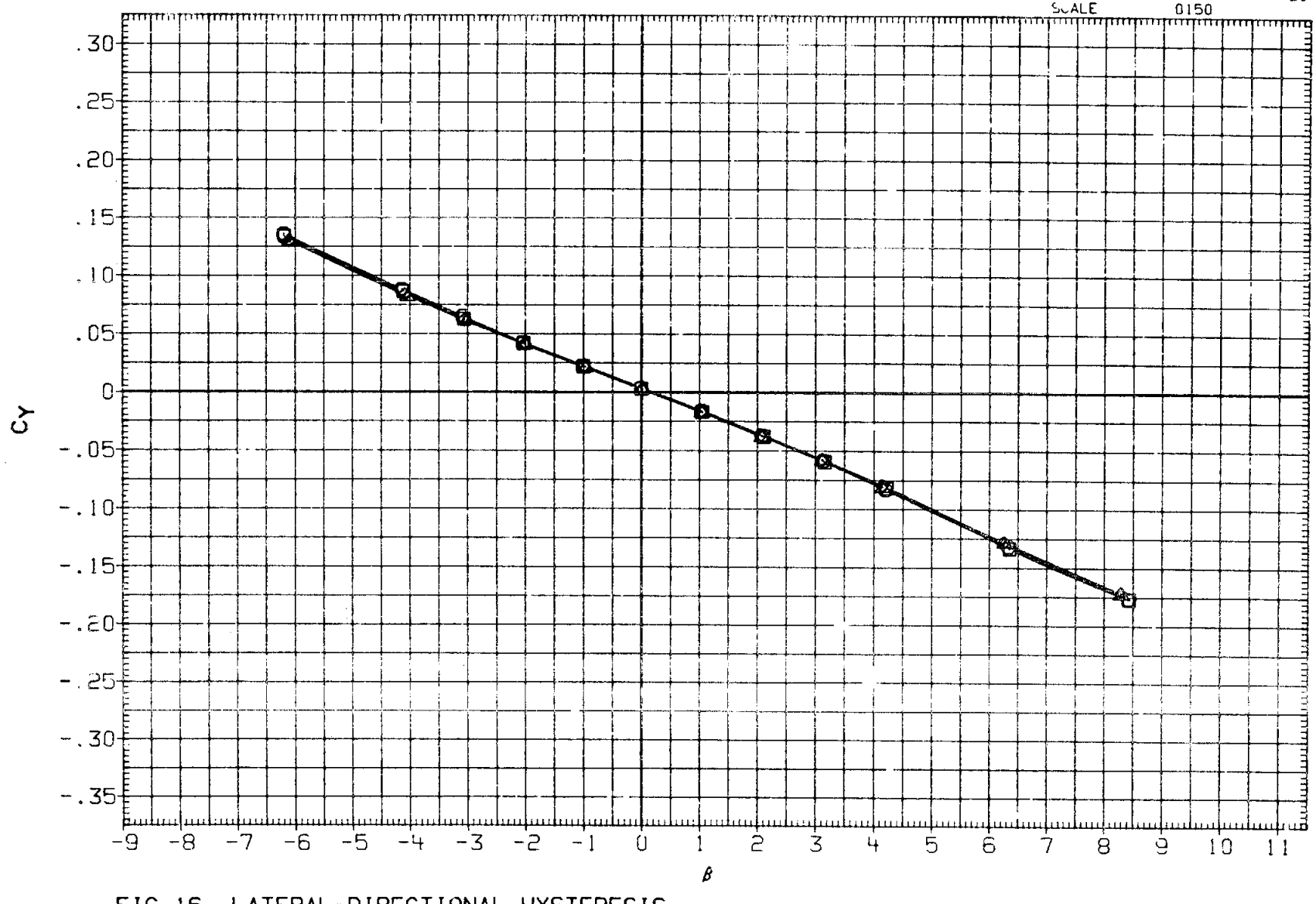

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B045	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	10.000	.000
R2B046	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

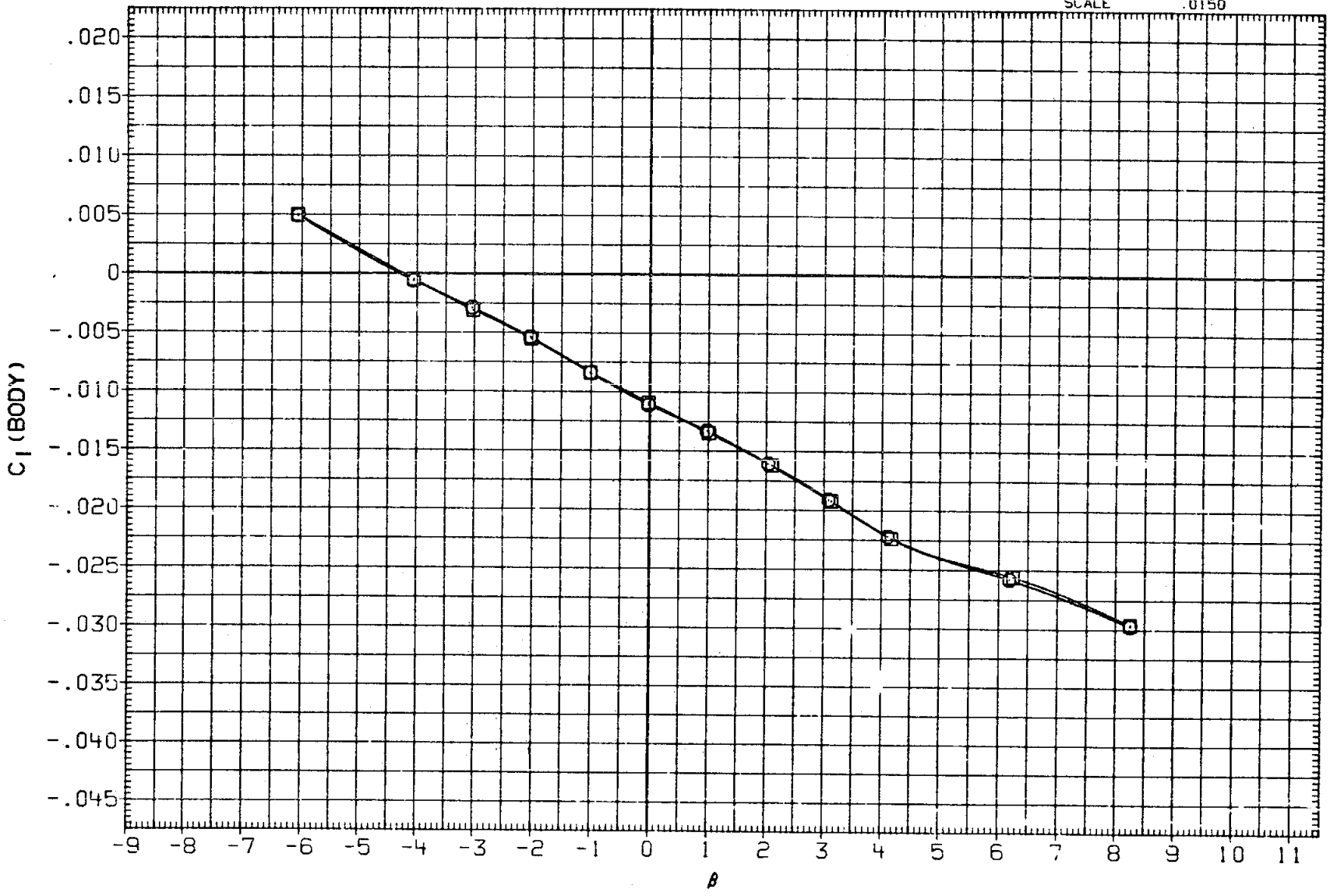

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	STABRR	ALPHA	BDFLAP
R2B045	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	10.000	.000
R2B046	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

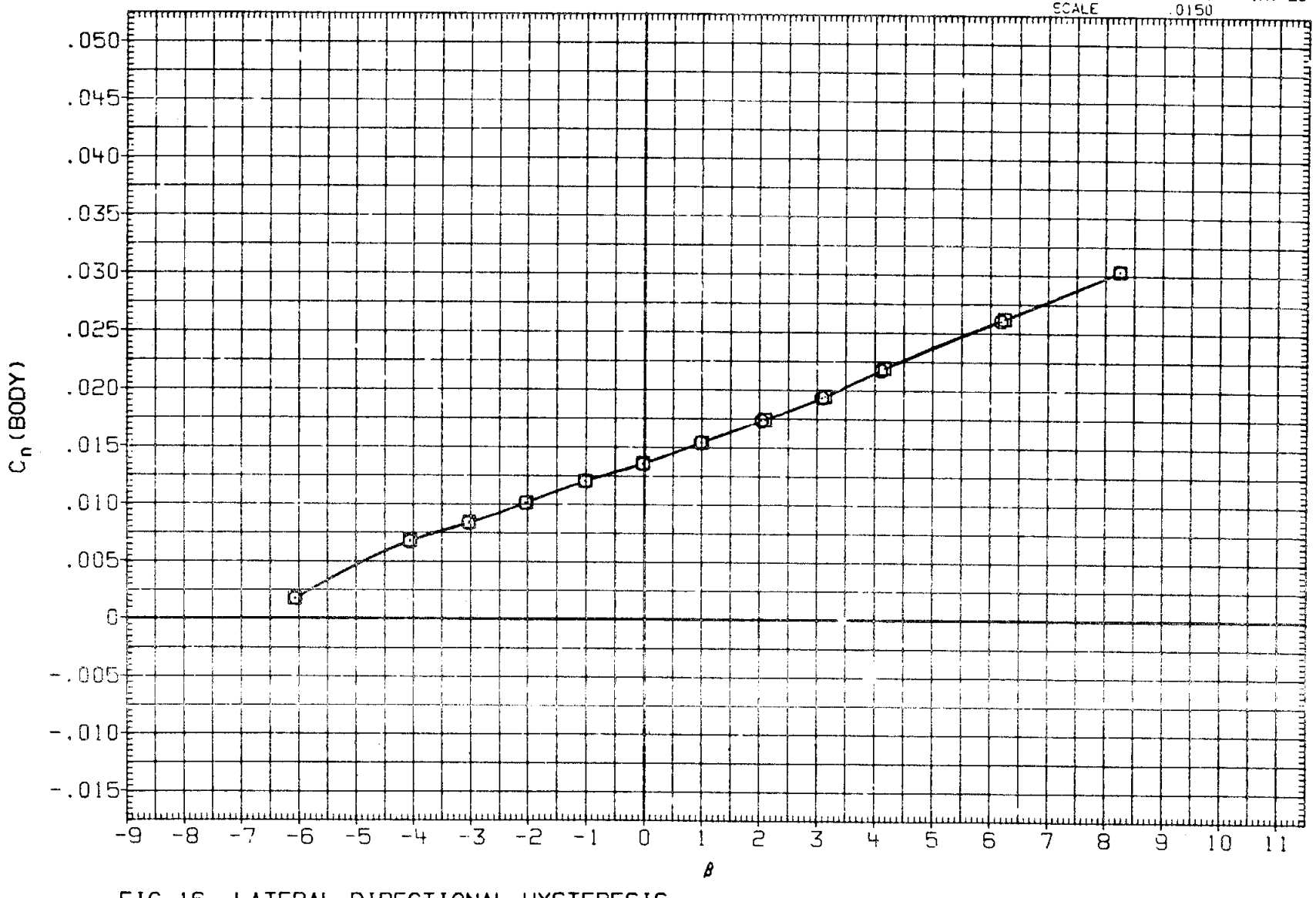

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B045	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	10.000	.000
R2B046	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

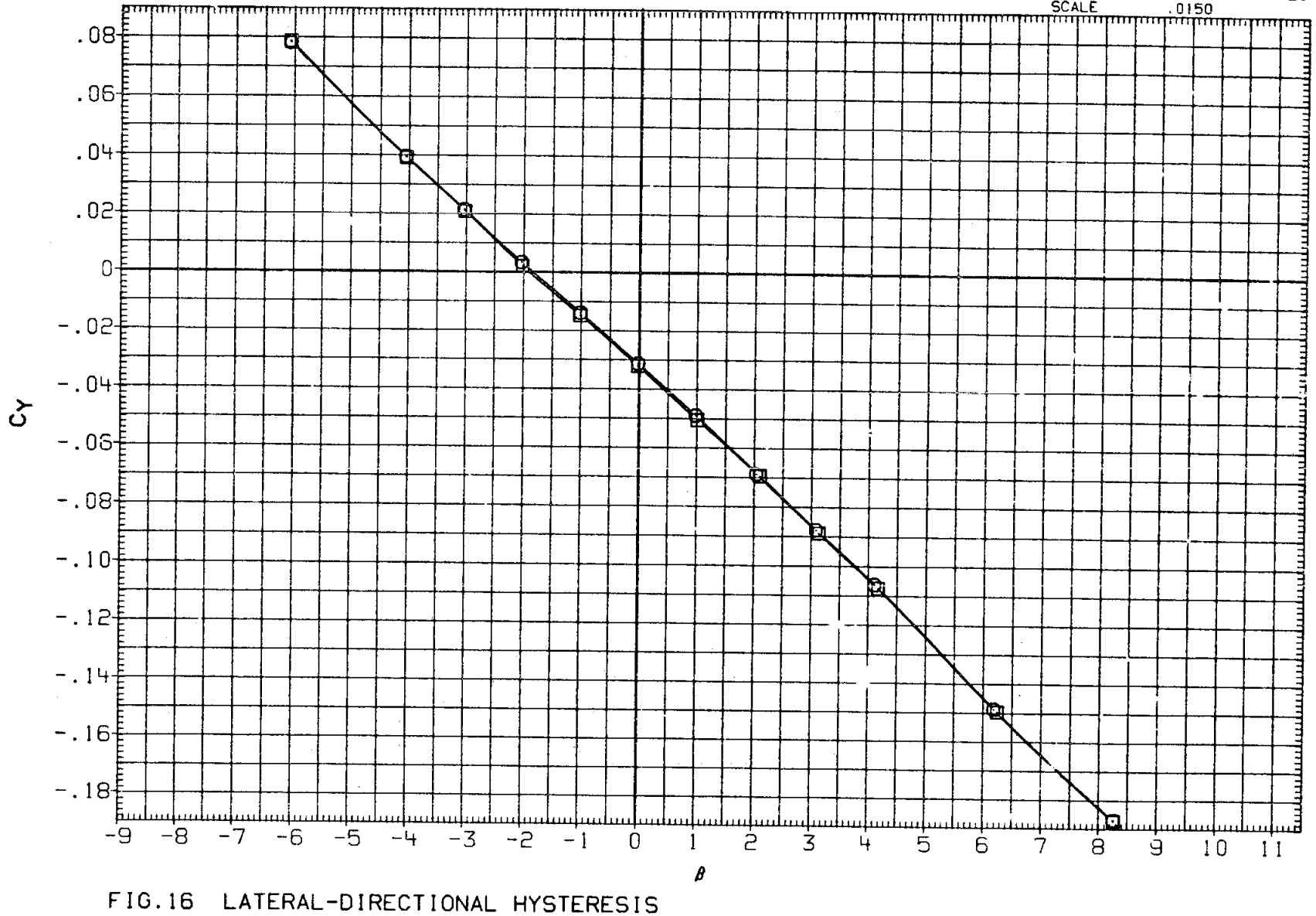

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BDFLAP
R28052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R28053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R28061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

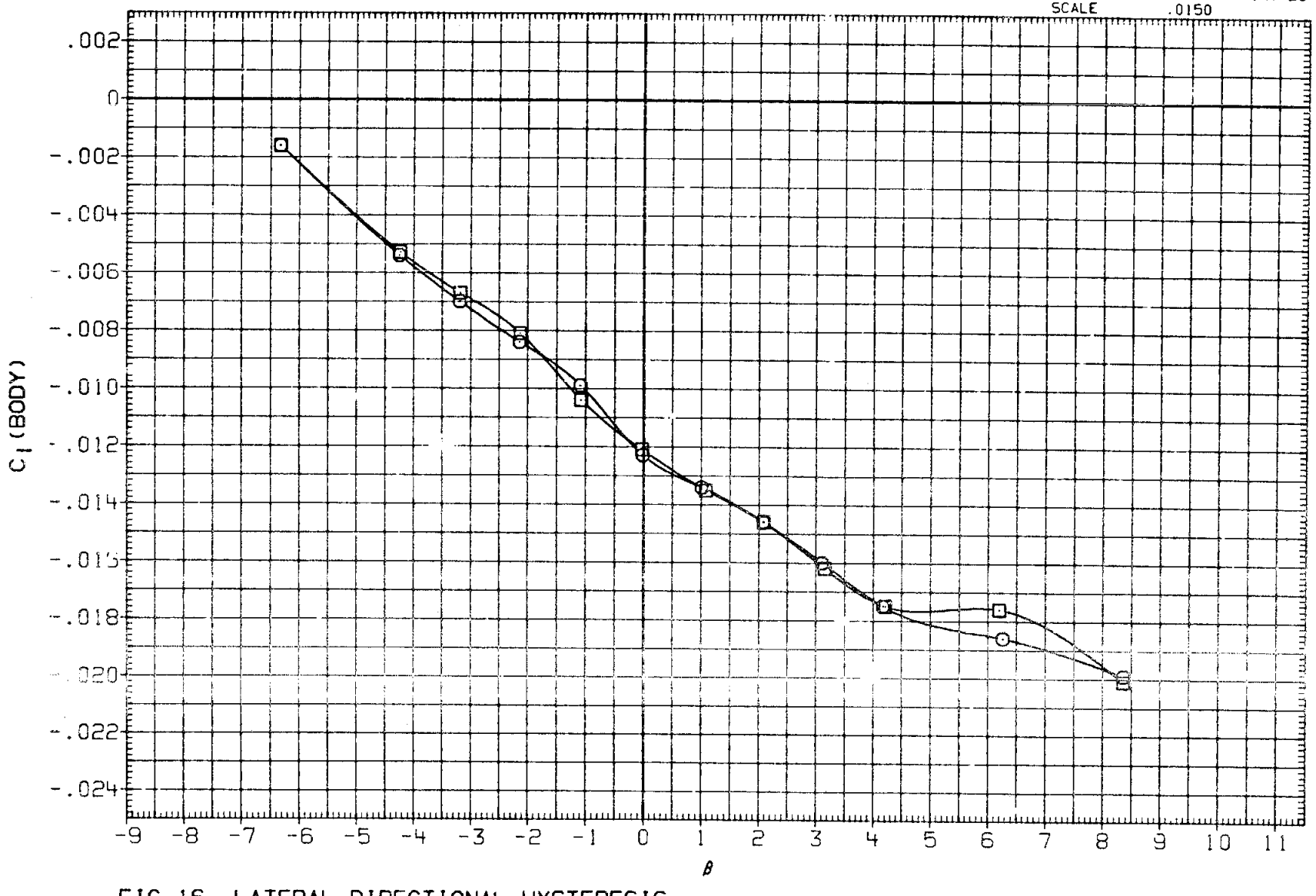

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R2B053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R2B061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

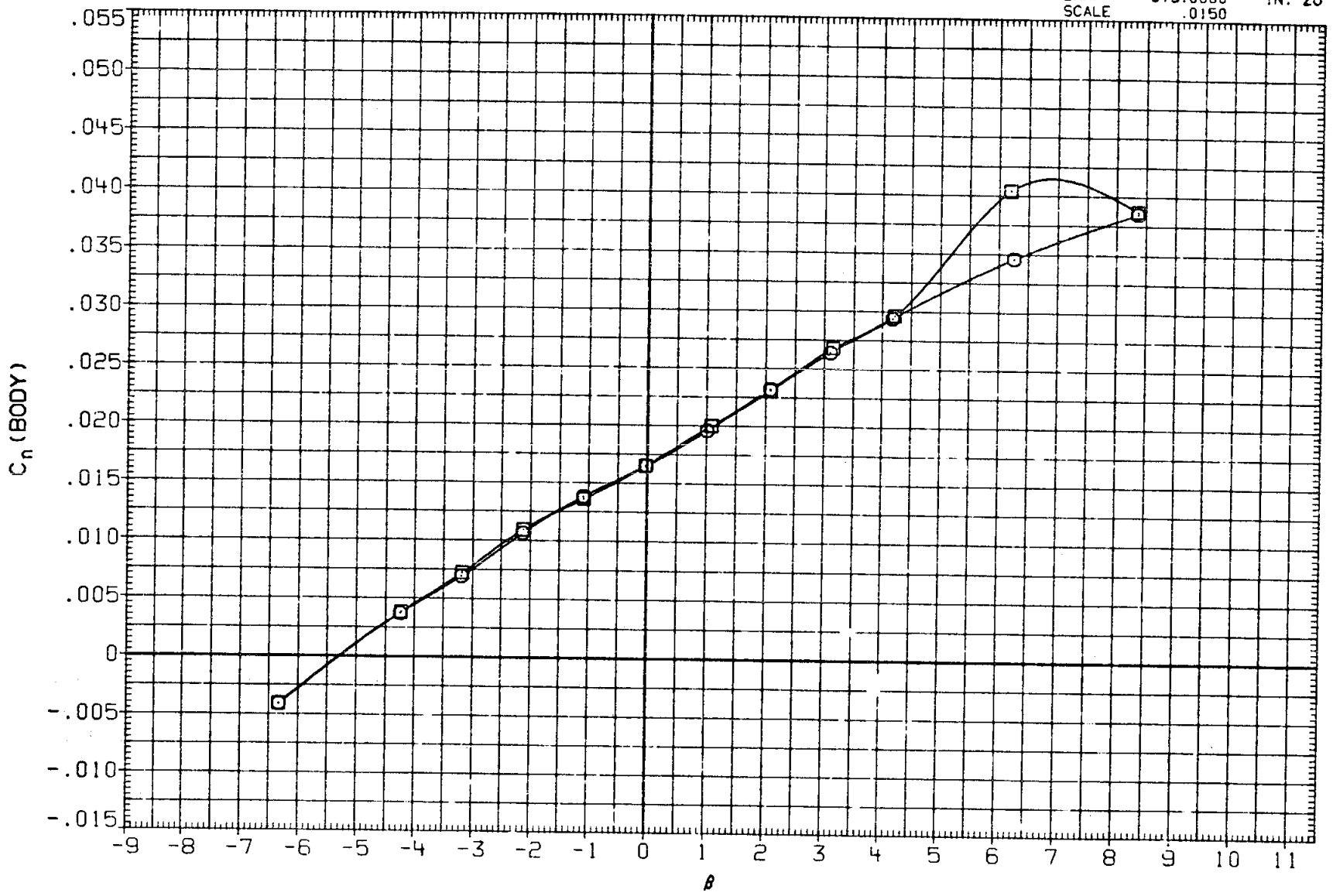

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R2B053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R2B061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2630.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

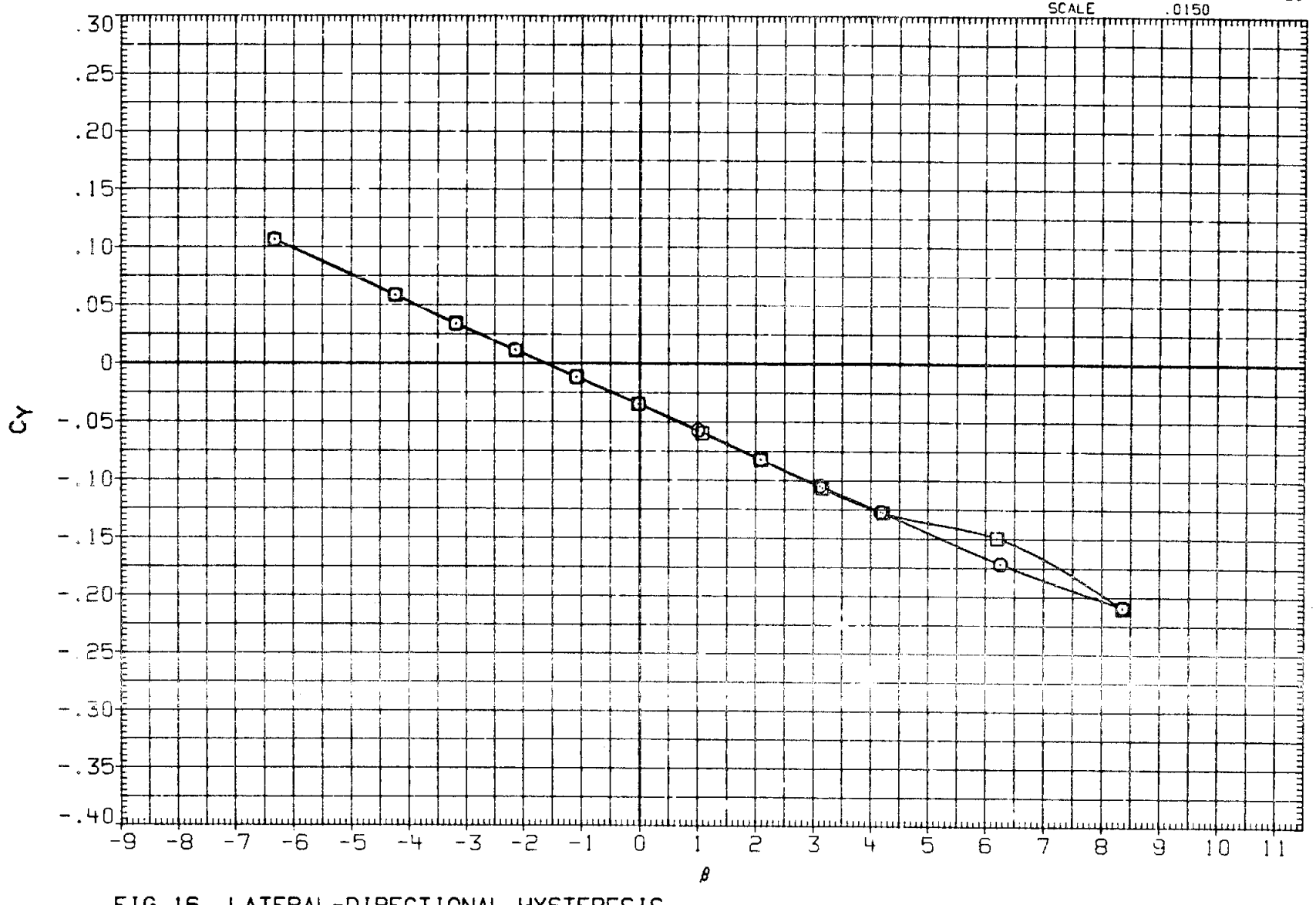

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R28053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R28061	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

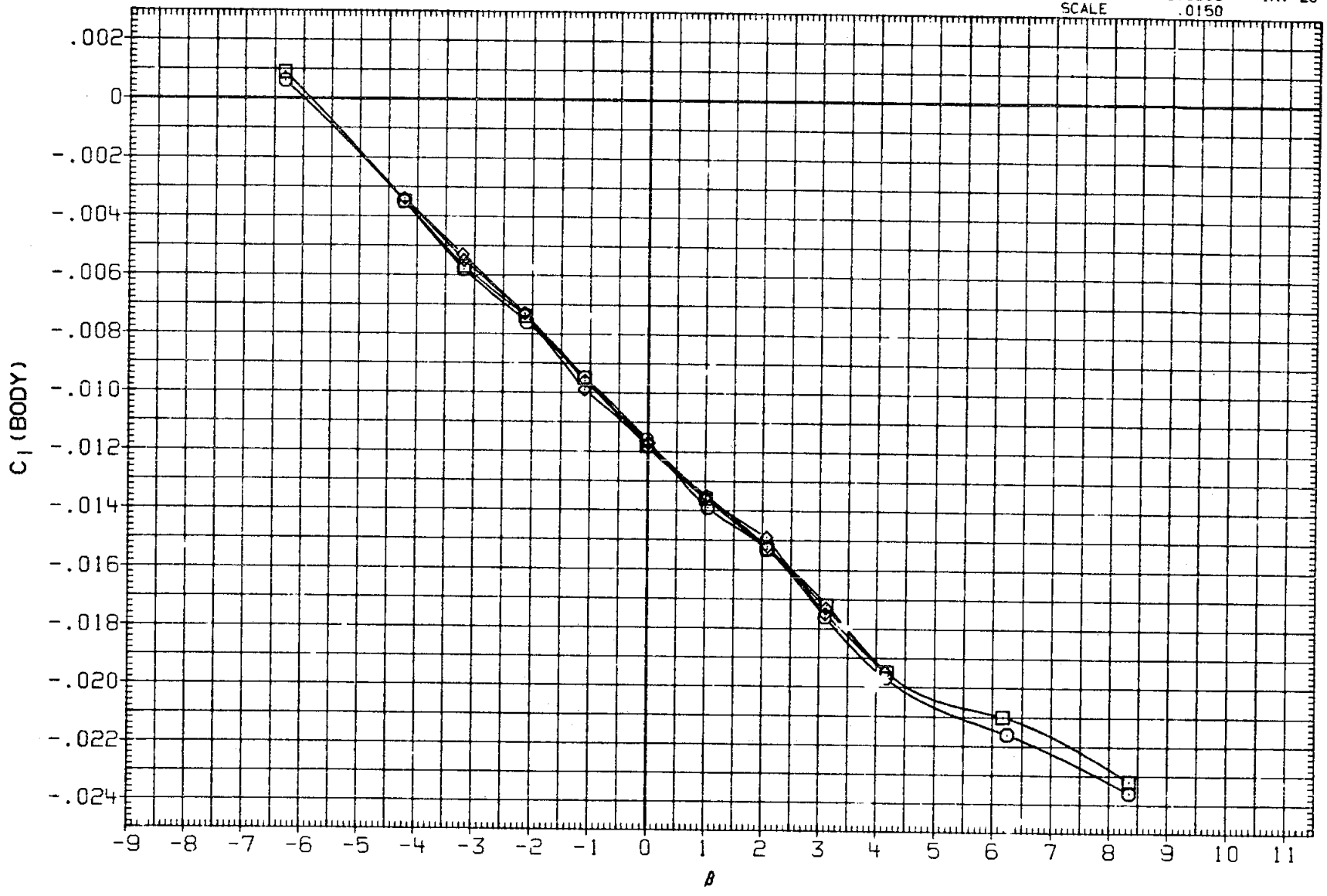

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(8)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOILBRK	ALPHA	BDFLAP
R28052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R28053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R28061	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2696.0000	SQ.FT.
LREF	974.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

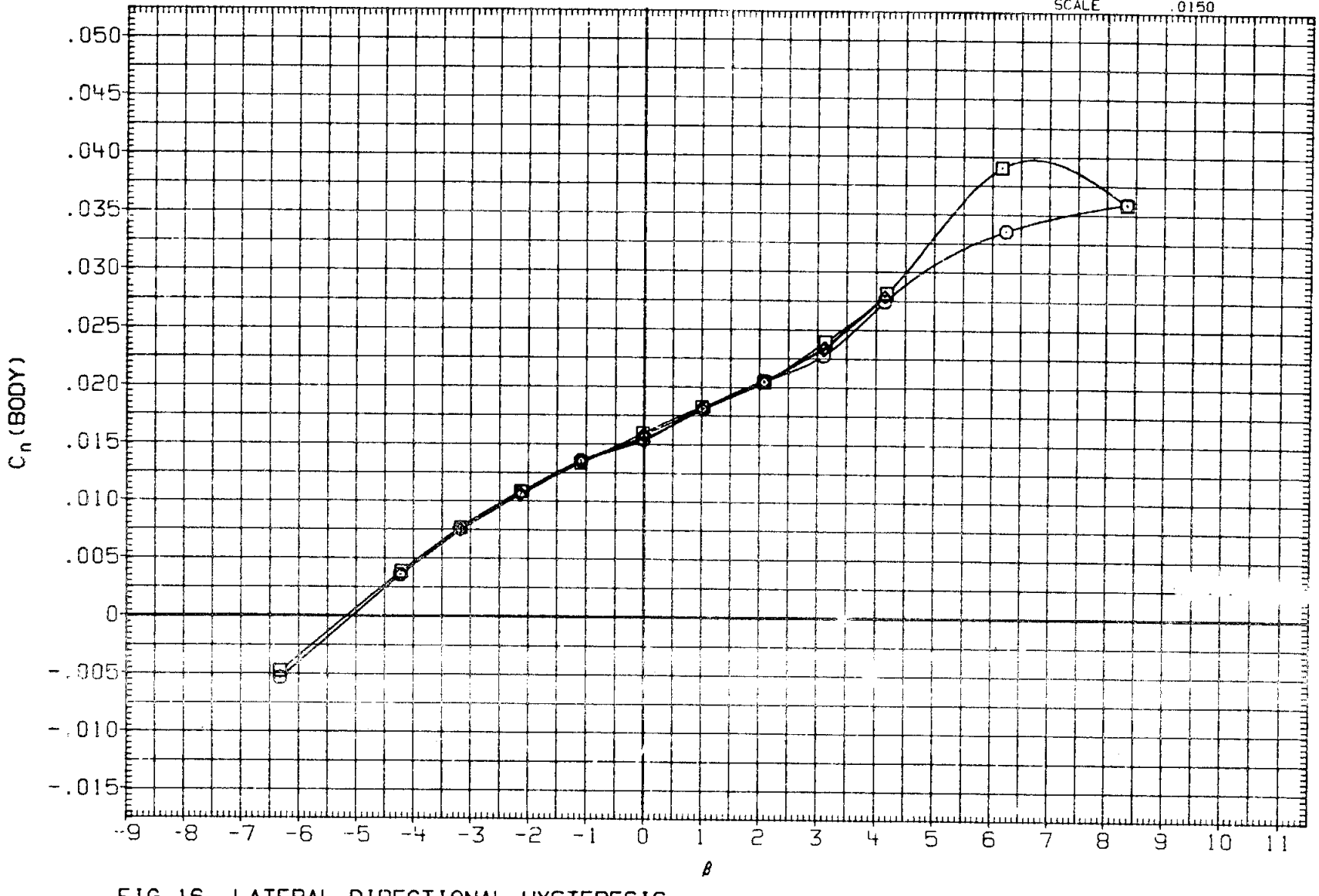

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R28053	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	5.000	.000
R28061	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

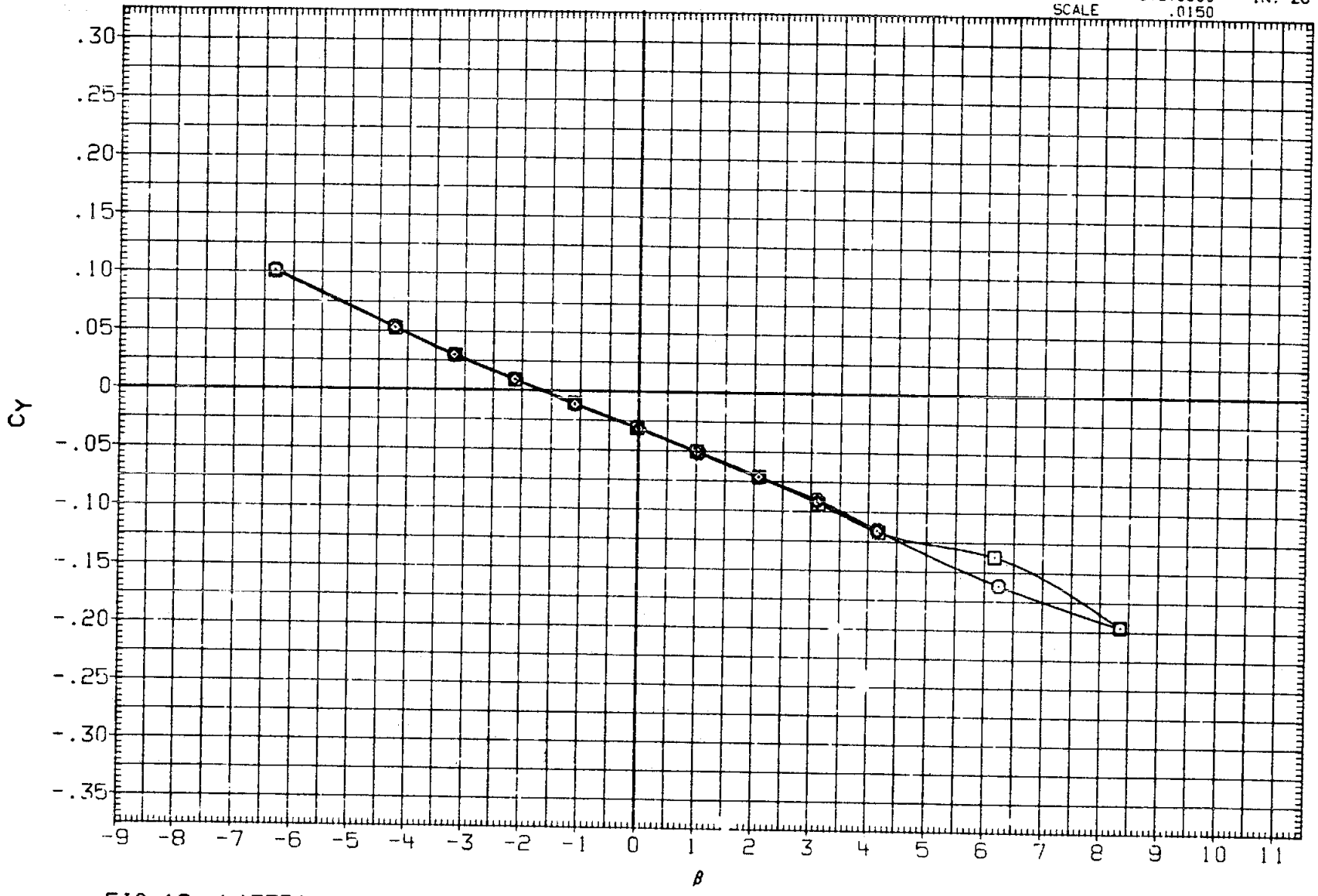

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R2B053	□	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000
R2B061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2650.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

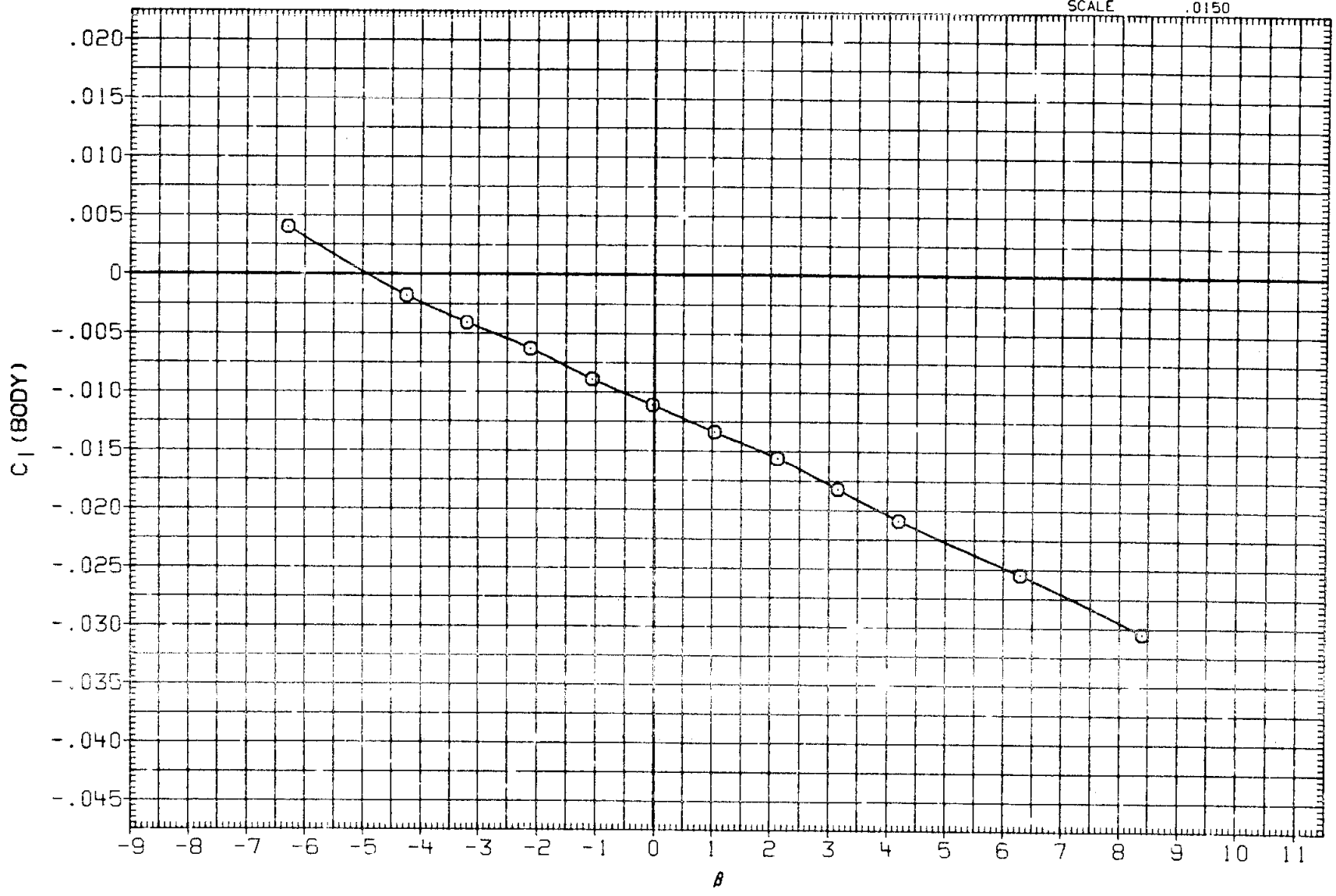

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.04

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28052	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	5.000	.000
R28053	□	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000
R28061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

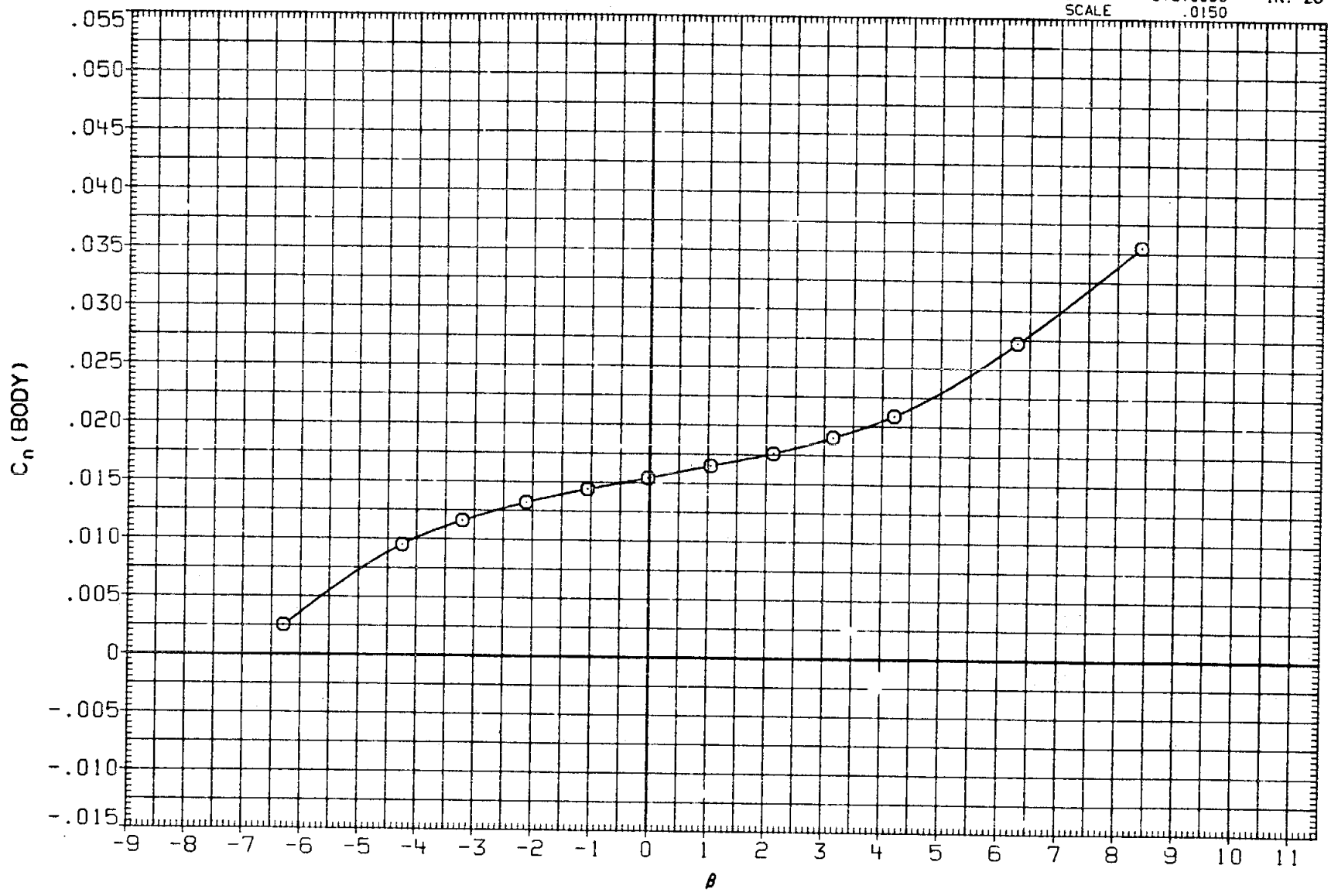

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.04

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBK	ALPHA	BDFLAP
R2B052	○	ARC 200-1 11(L377) OV1C1	- TO + BETA	-10.000	25.000	5.000	.000
R2B053	□	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000
R2B061	◇	DATA NOT AVAILABLE		-10.000	25.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	[illegible].8000	IN.
BREF	336.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

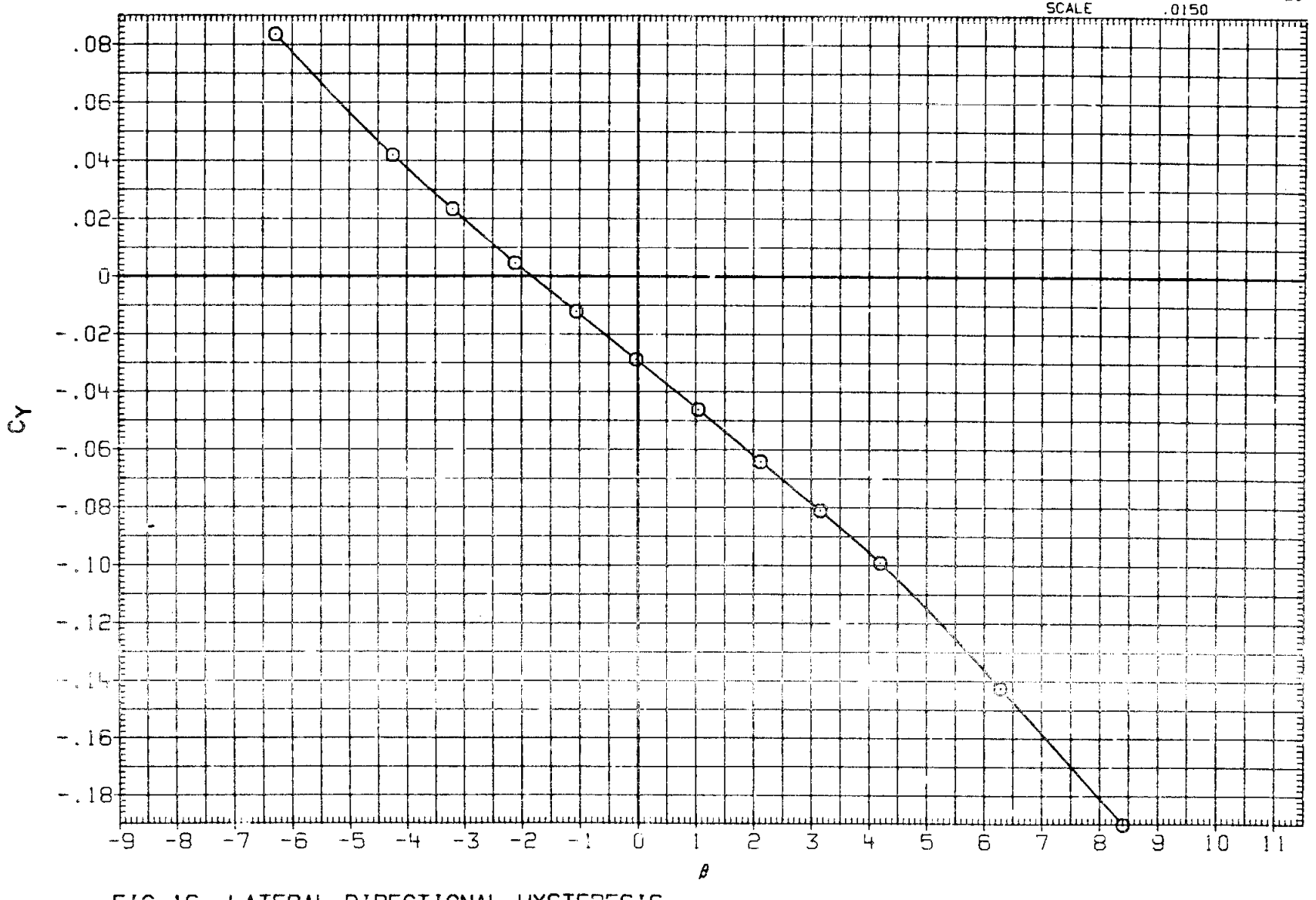

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(C)MACH = 1.04

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R28054	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R28055	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R28056	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	-10.000	25.000
R28057	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

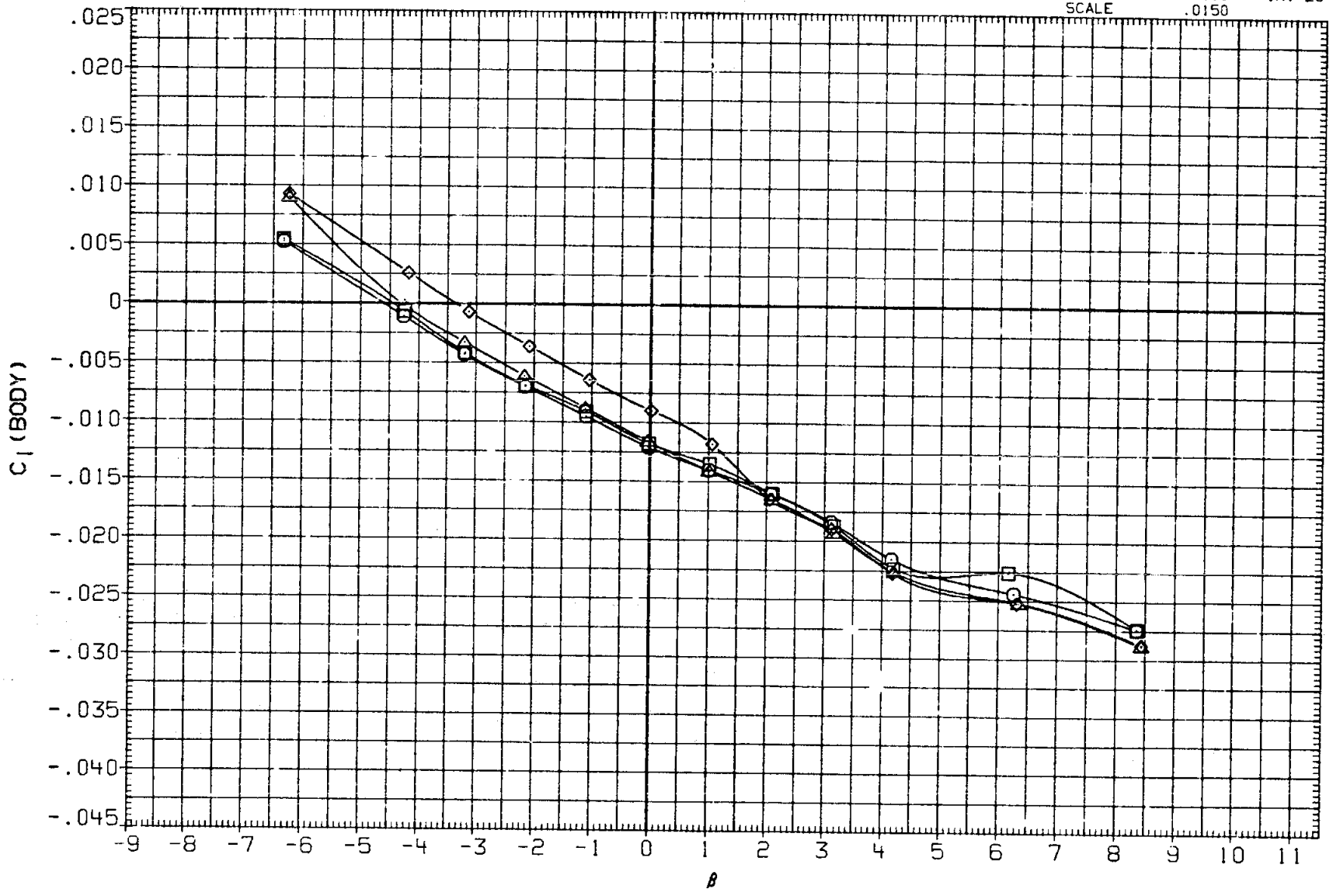

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B054	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B055	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B056	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	-10.000	25.000
R2B057	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

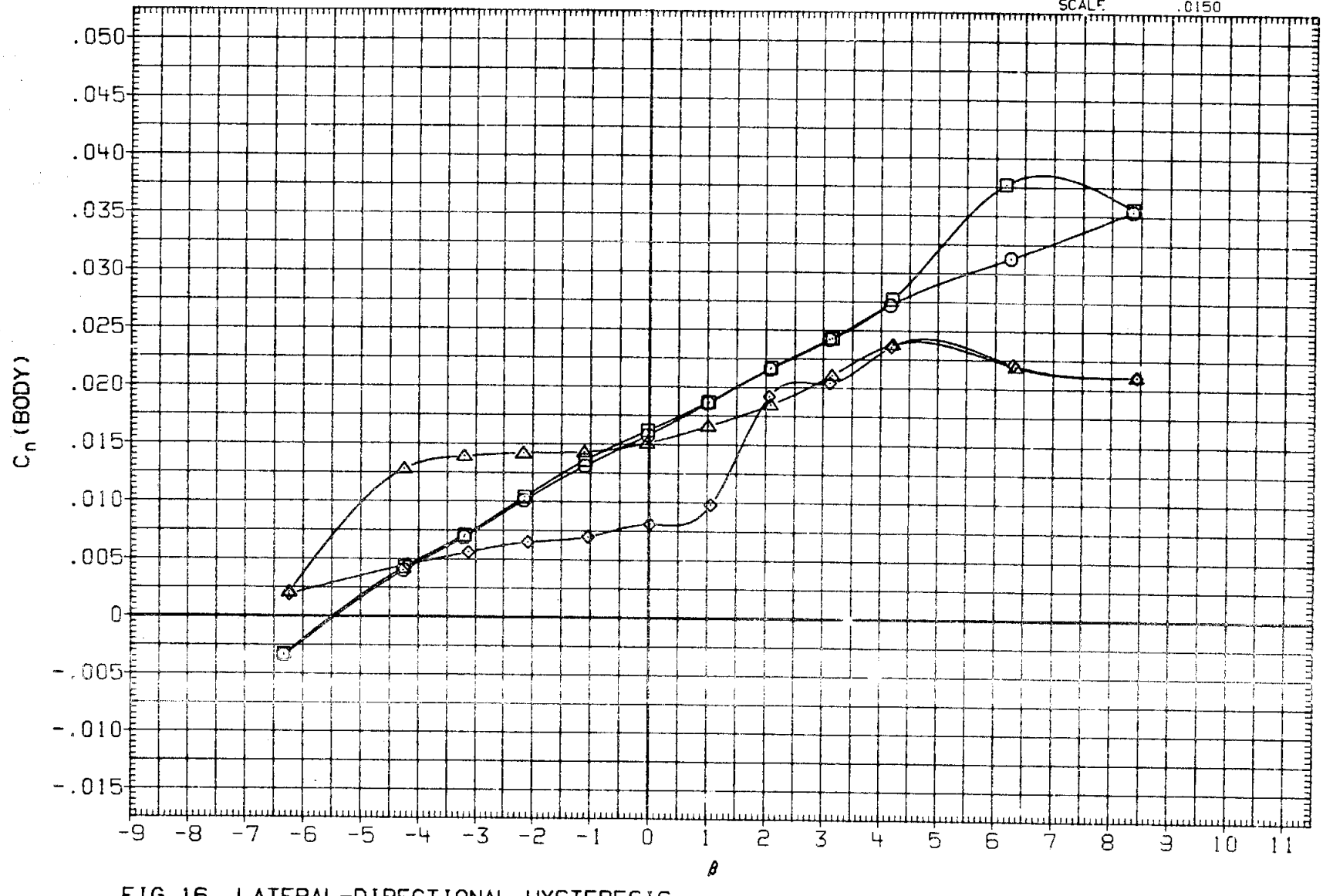

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B054	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B055	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	5.000	.000	-10.000	25.000
R2B056	◇	ARC 200-1 11(LA77) OV101	- TO + BETA	15.000	.000	-10.000	25.000
R2B057	△	ARC 200-1 11(LA77) OV101	+ TO - BETA	15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

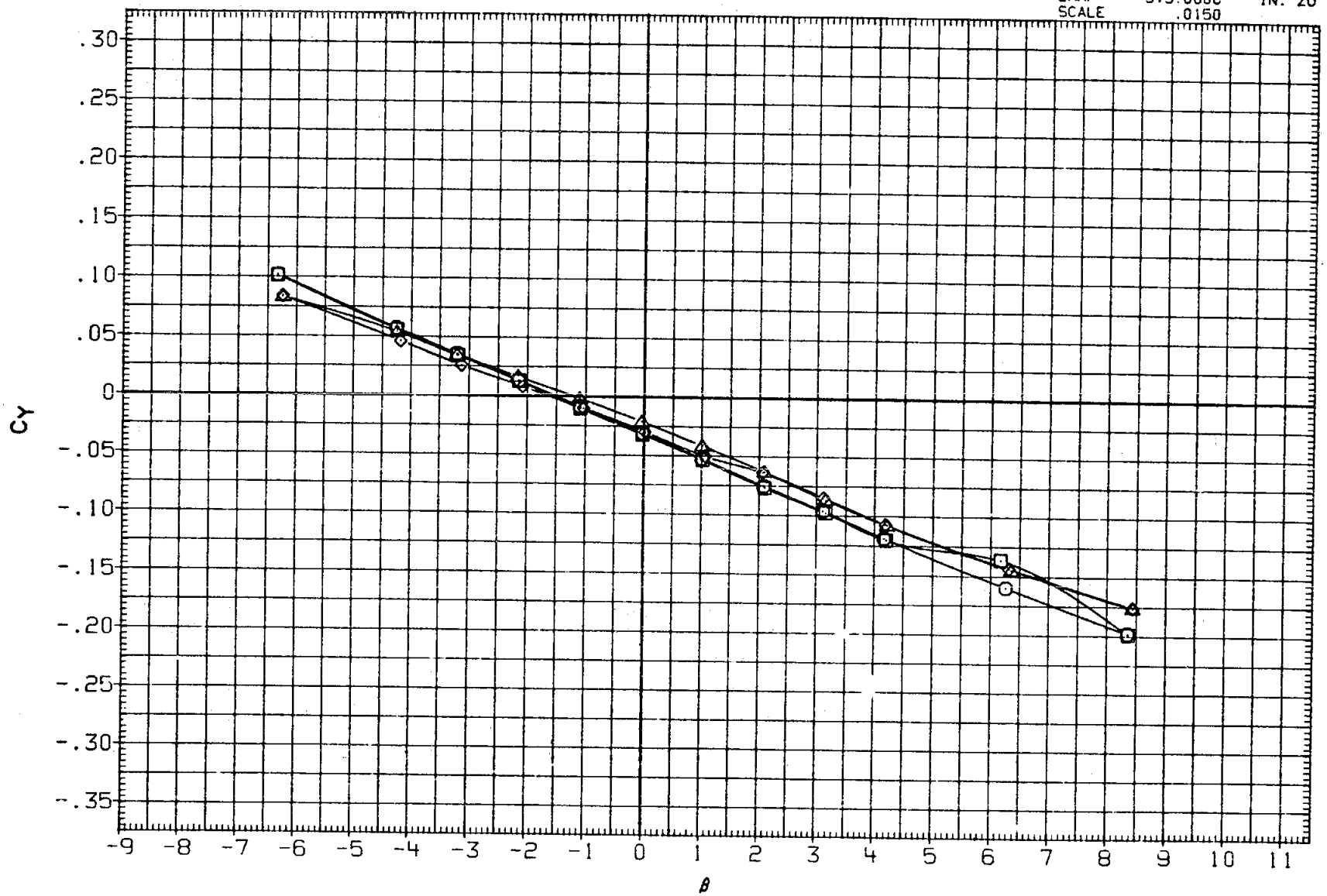

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R2B054	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R2B055	□	DATA NOT AVAILABLE		5.000	.000	-10.000	25.000
R2B056	◇	DATA NOT AVAILABLE		15.000	.000	-10.000	25.000
R2B057	△	DATA NOT AVAILABLE		15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

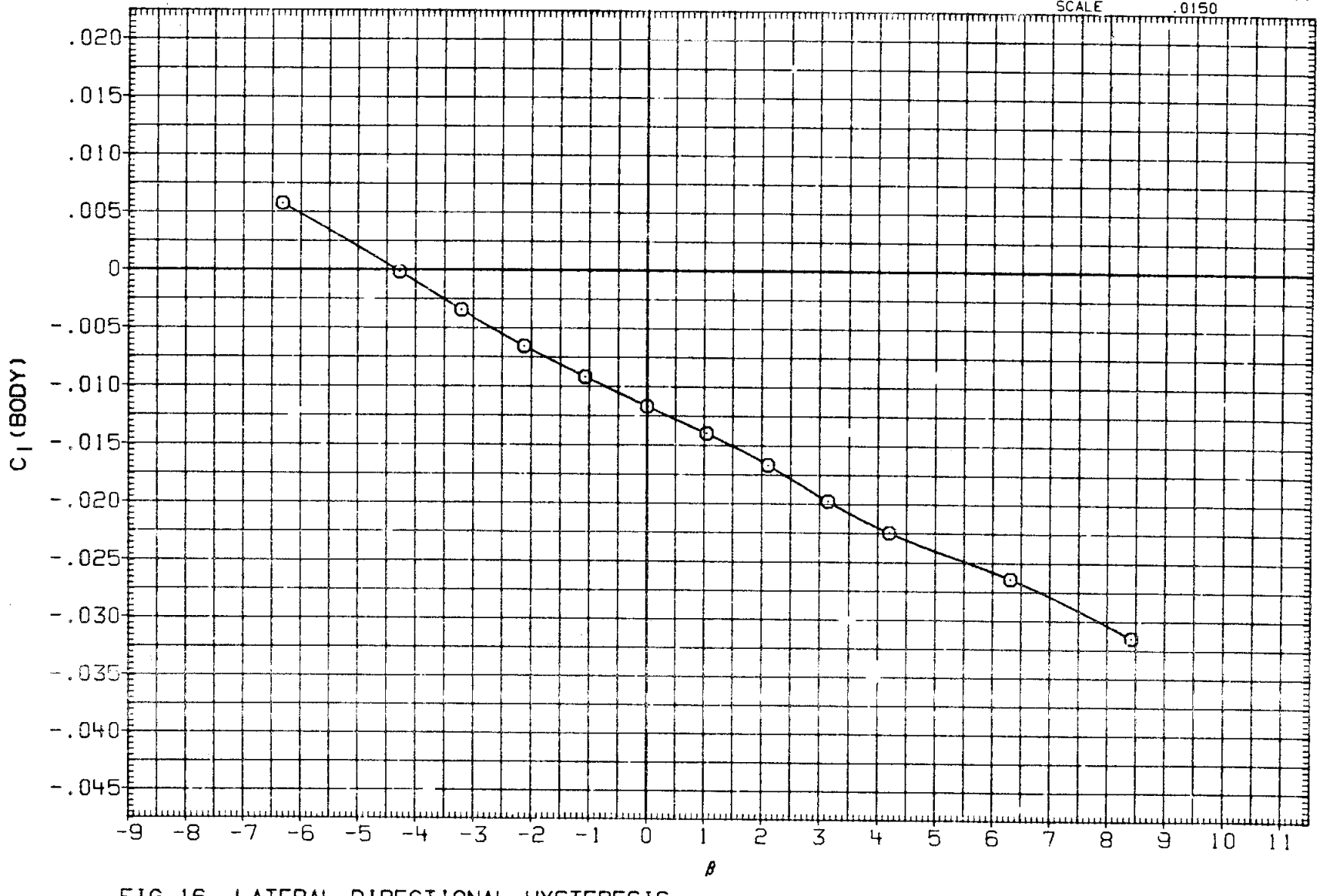

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
R2B054	○	ARC 200-1 11.LA77) OV101
R2B055	□	DATA NOT AVAILABLE
R2B056	◇	DATA NOT AVAILABLE
R2B057	△	DATA NOT AVAILABLE

- TO + BETA

ALPHA	AILRON	ELEVON	SPDBRK
5.000	.000	-10.000	25.000
5.000	.000	-10.000	25.000
15.000	.000	-10.000	25.000
15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

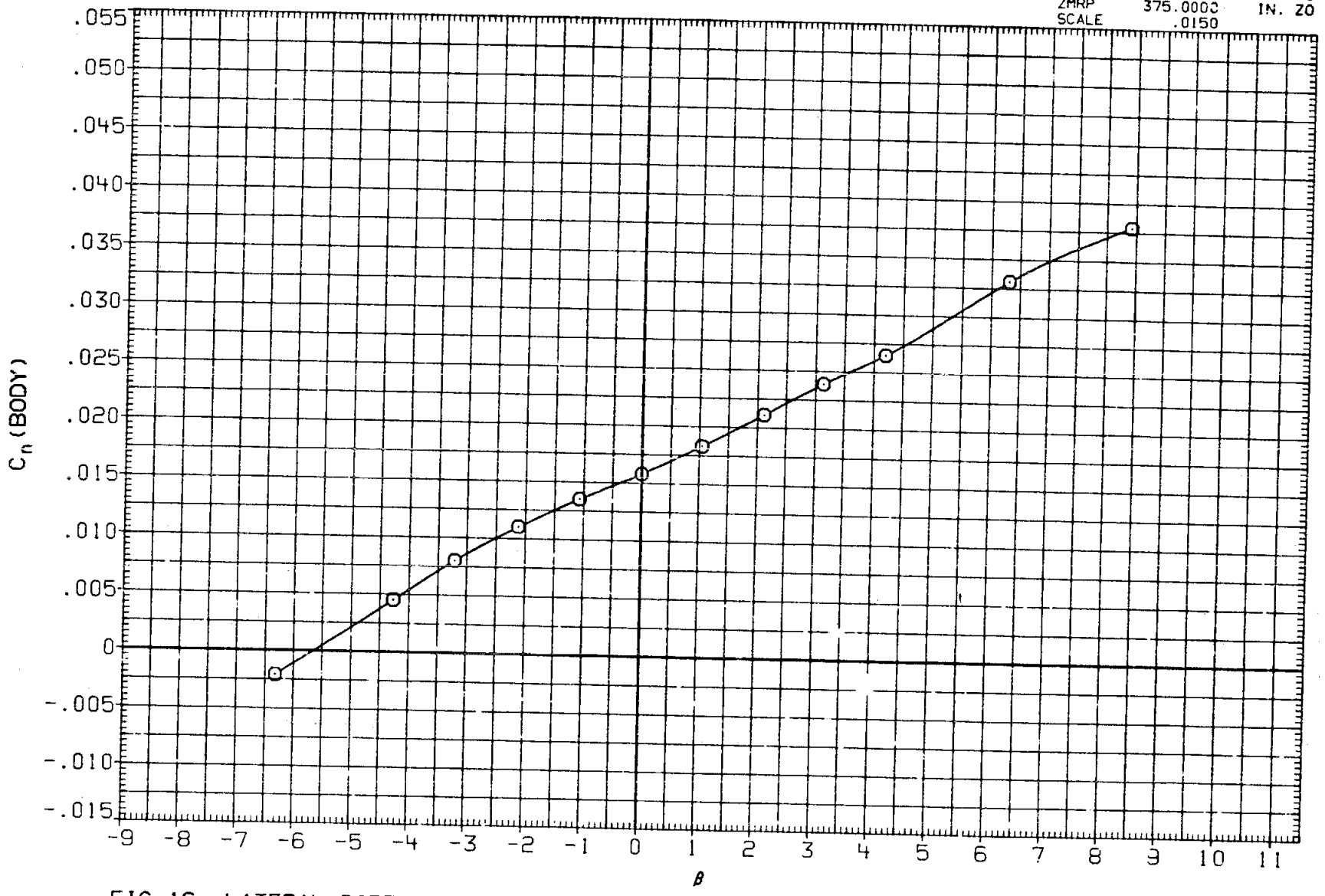

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		ALPHA	AILRON	ELEVON	SPDBRK
R28054	○	ARC 200-1 11(LA77) OV101	- TO + BETA	5.000	.000	-10.000	25.000
R28055	□	DATA NOT AVAILABLE		5.300	.000	-10.000	25.000
R28056	◇	DATA NOT AVAILABLE		15.000	.000	-10.000	25.000
R28057	△	DATA NOT AVAILABLE		15.000	.000	-10.000	25.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

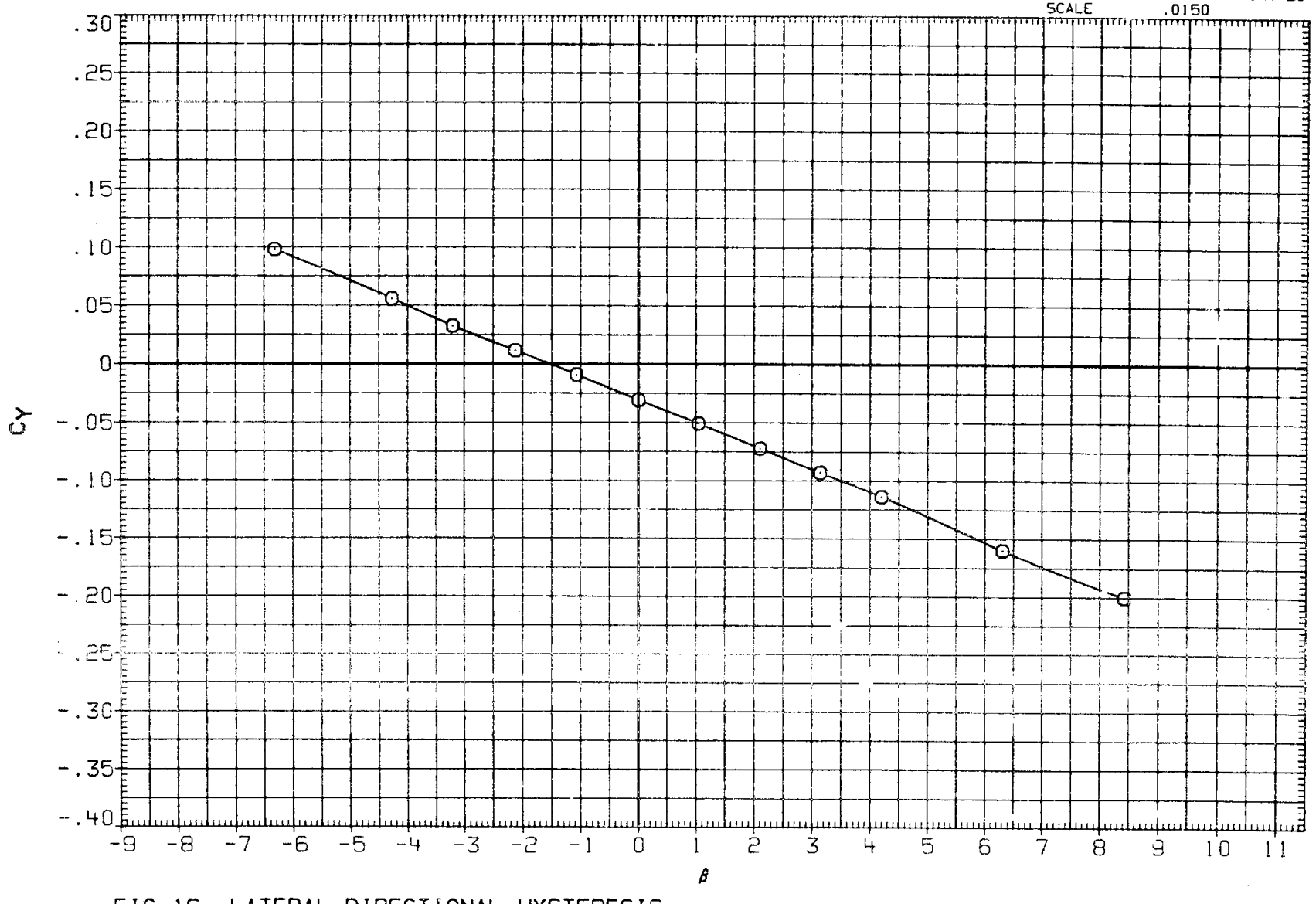

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(B)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28058	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	15.000	.000
R28059	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	15.000	.000
R28060	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

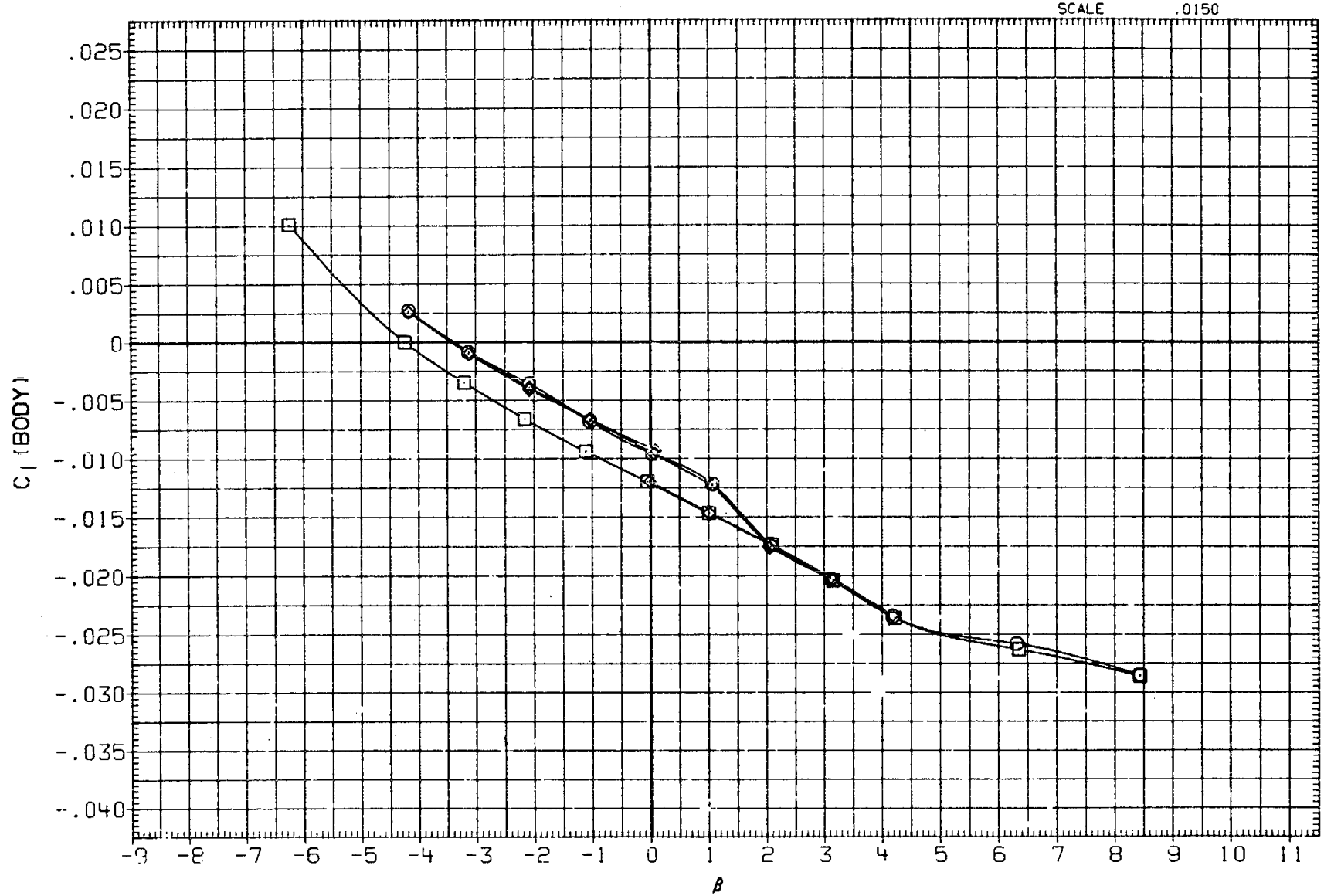

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B058	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	15.000	.000
R2B059	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	25.000	15.000	.000
R2B060	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

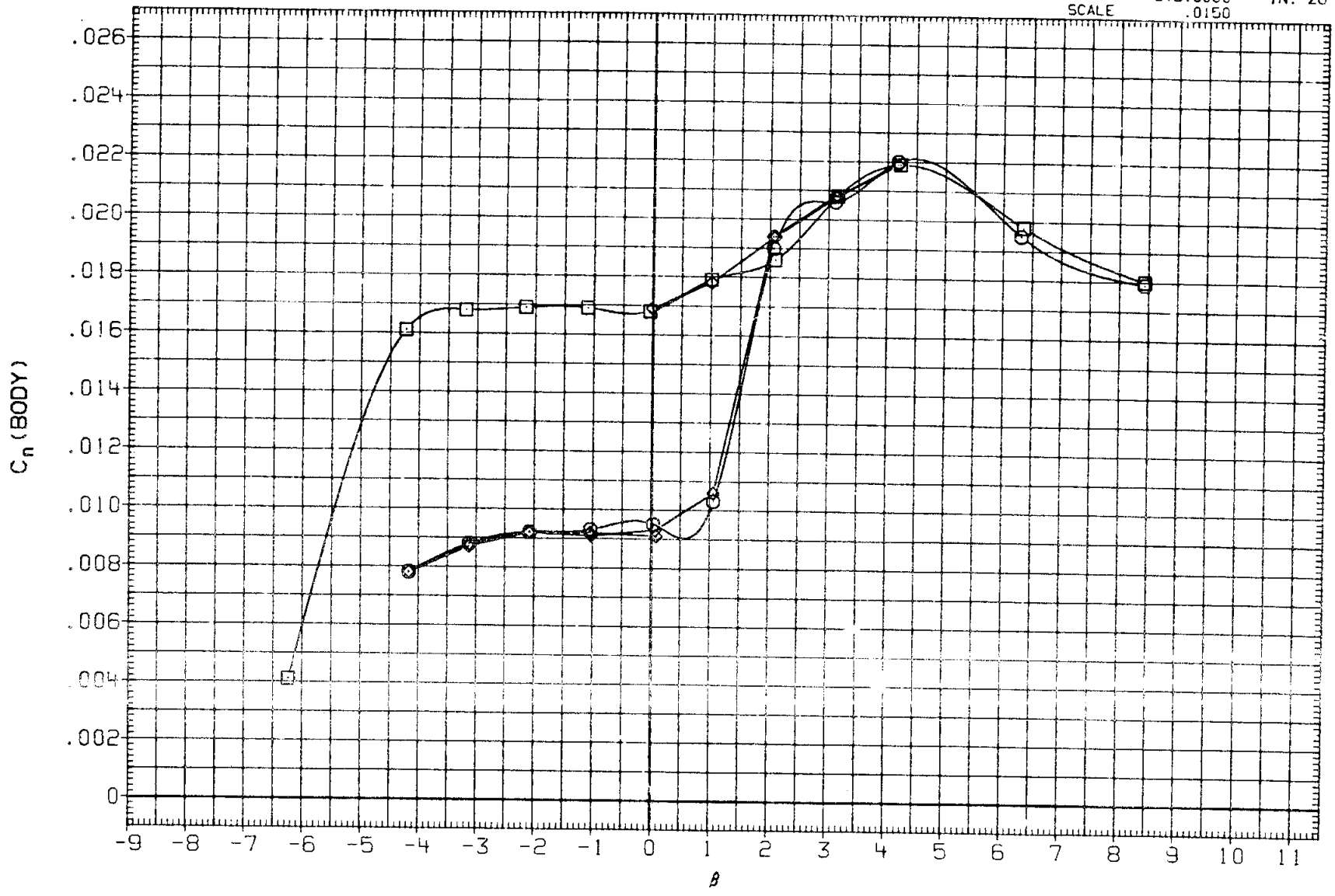

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B058	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	25.000	15.000	.000
R2B059	□	ARC 200-1 11(LA77 OV101	+ TO - BETA	-10.000	25.000	15.000	.000
R2B060	◇	ARC 200-1 11(LA77) OV101	0 TO - TO + TO 0 BETA	-10.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

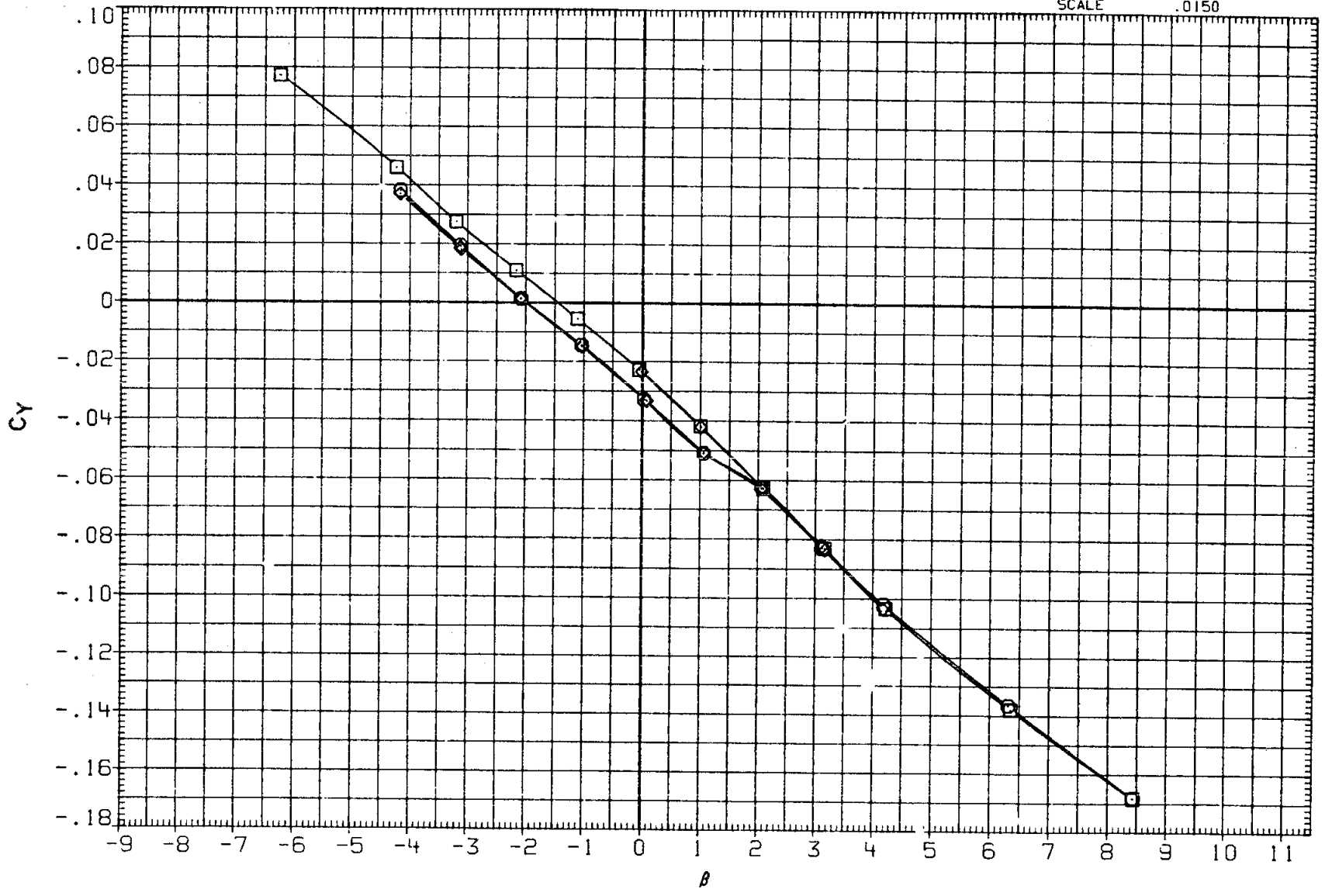

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28068	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	25.000	15.000	.000
R28069	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

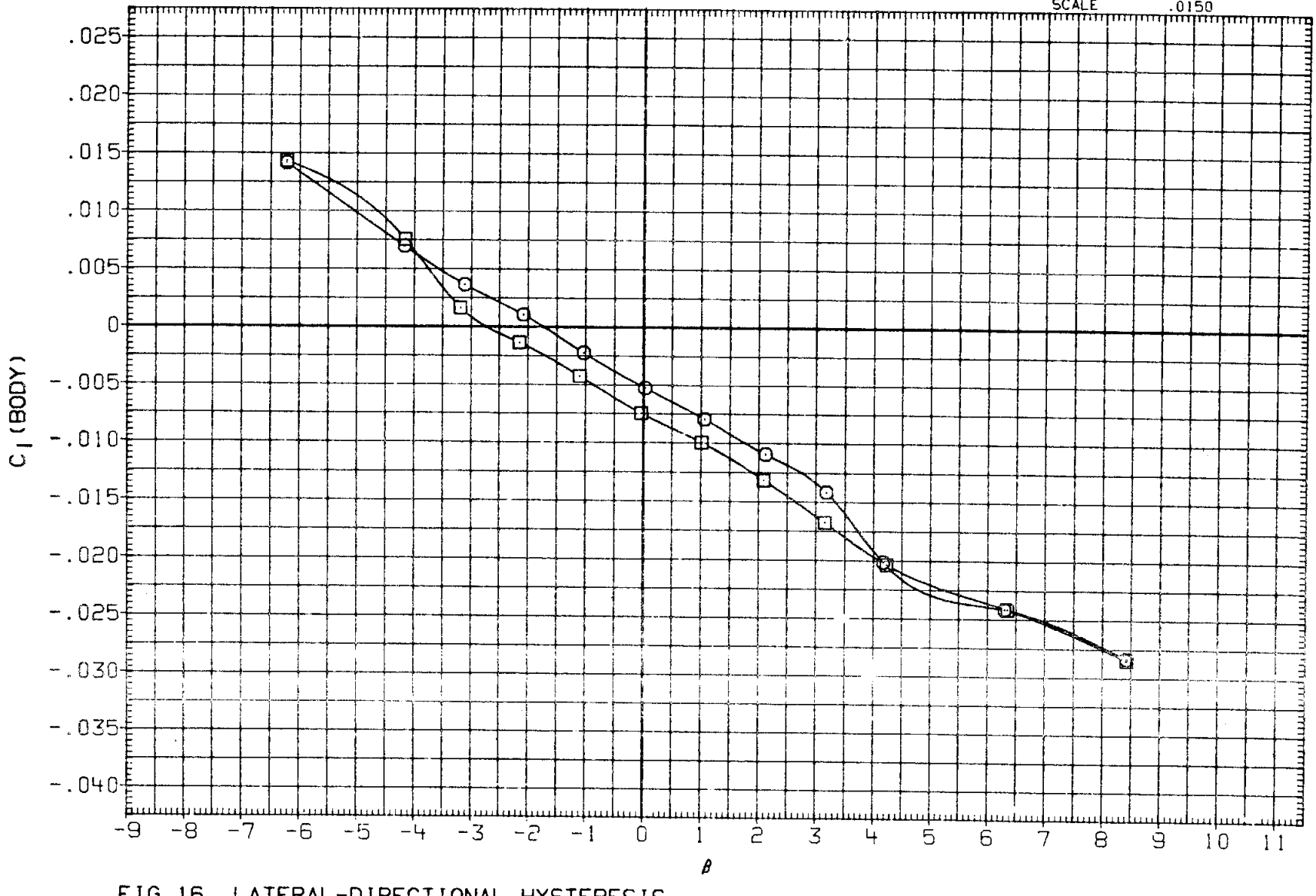

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28068	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	25.000	15.000	.000
R28069	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

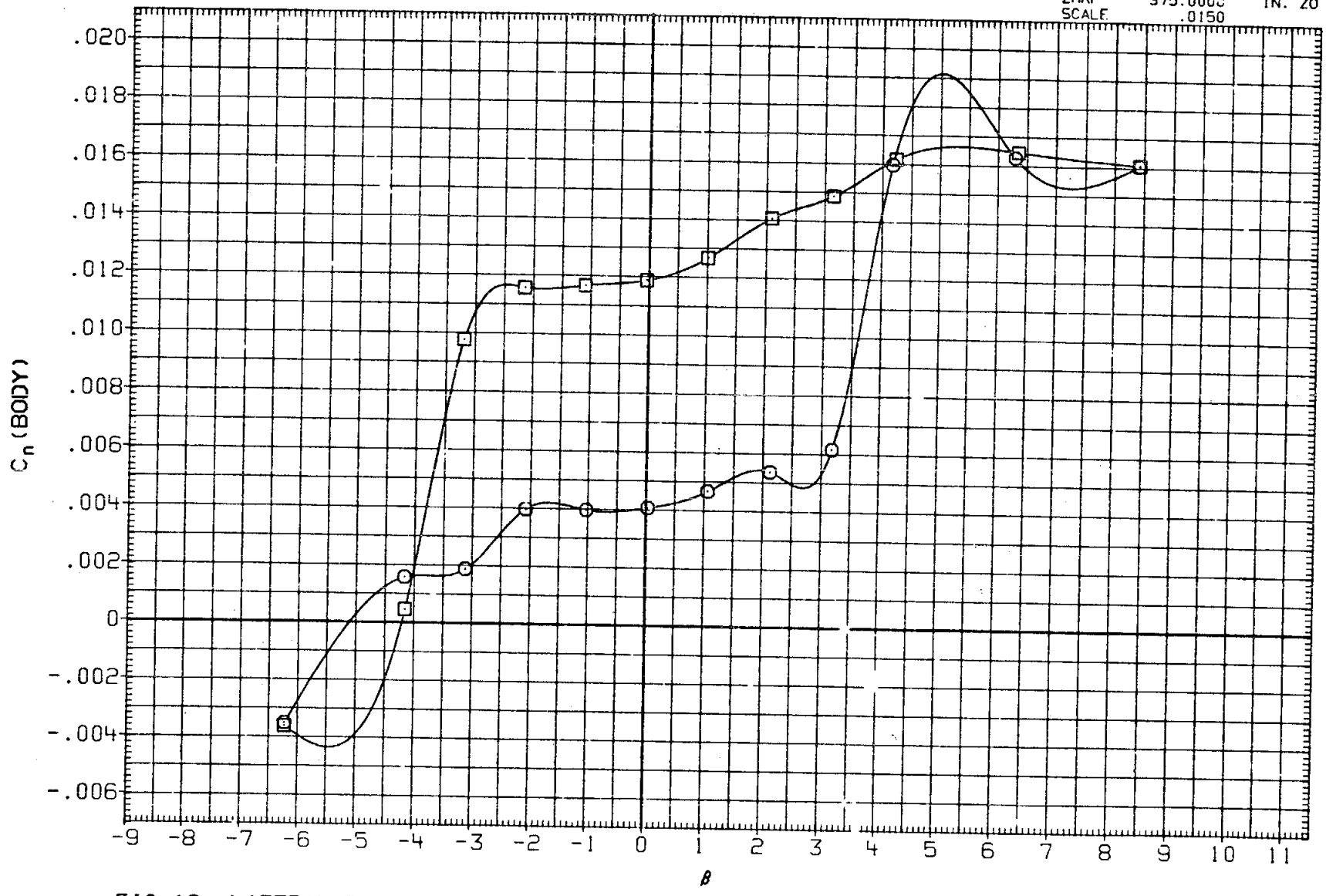

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B068	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	25.000	15.000	.000
R2B069	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2890.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

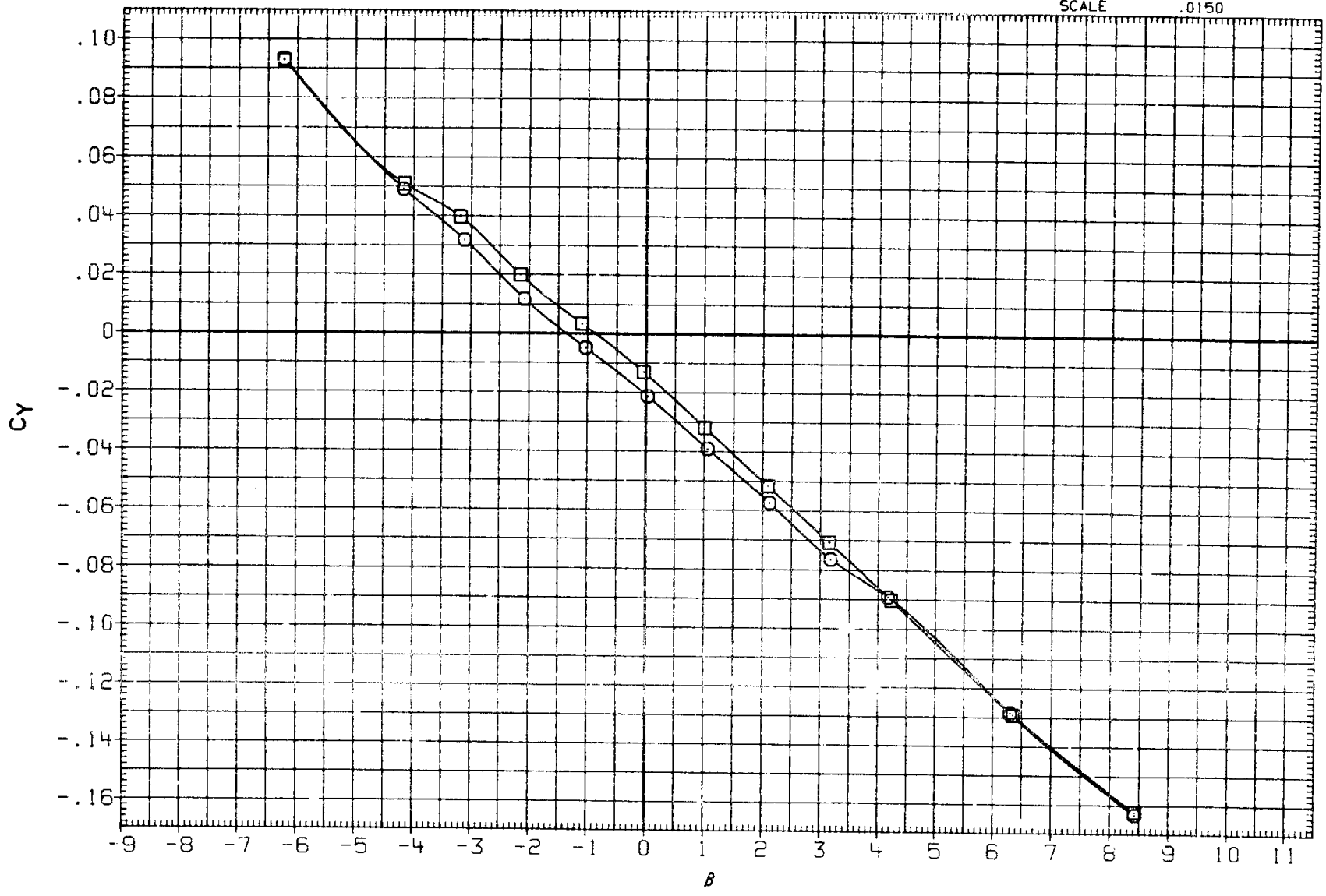

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28089	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	15.000	.000
R28090	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	55.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

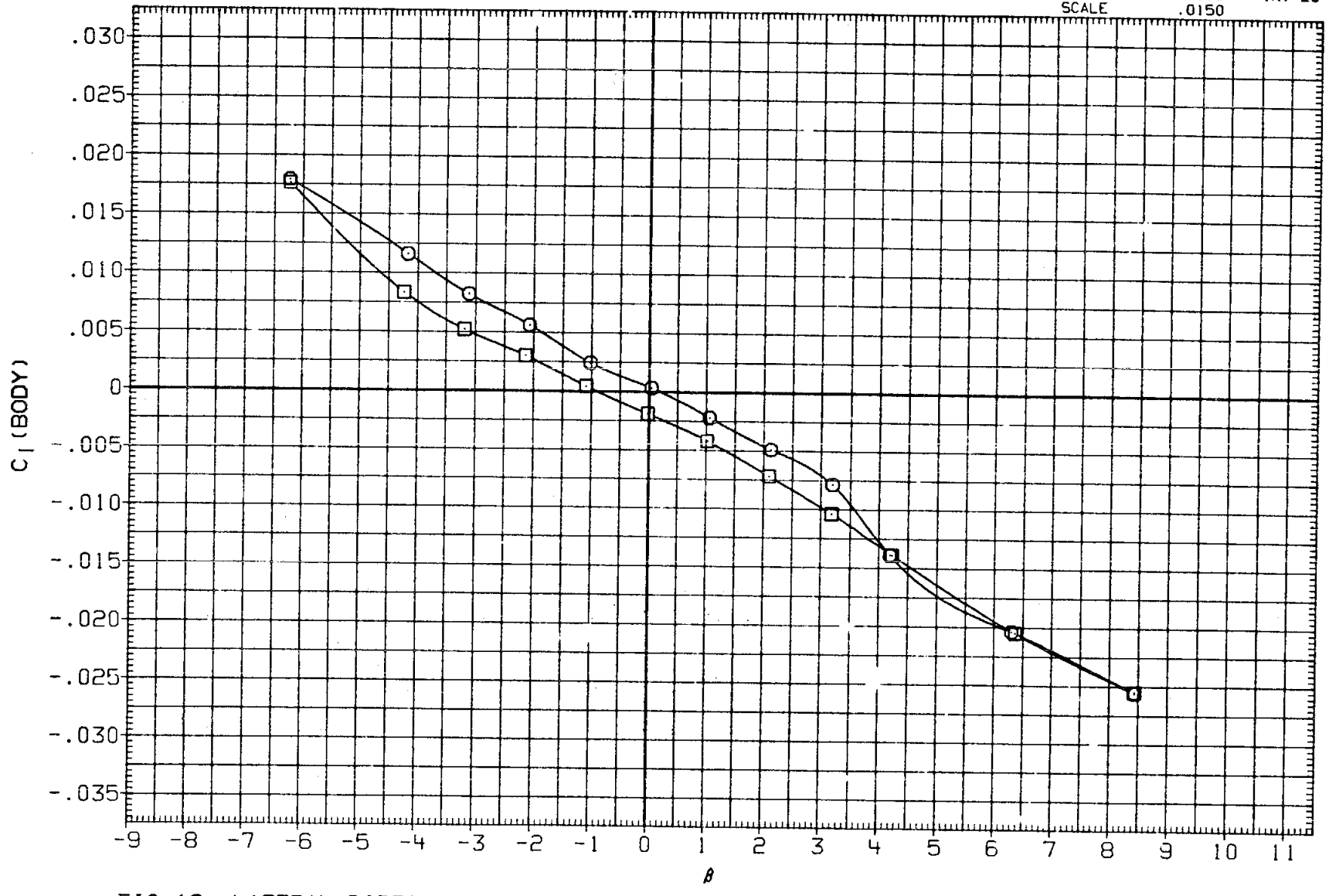

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBR	ALPHA	BDFLAP
R2B089	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	15.000	.000
R2B090	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	55.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

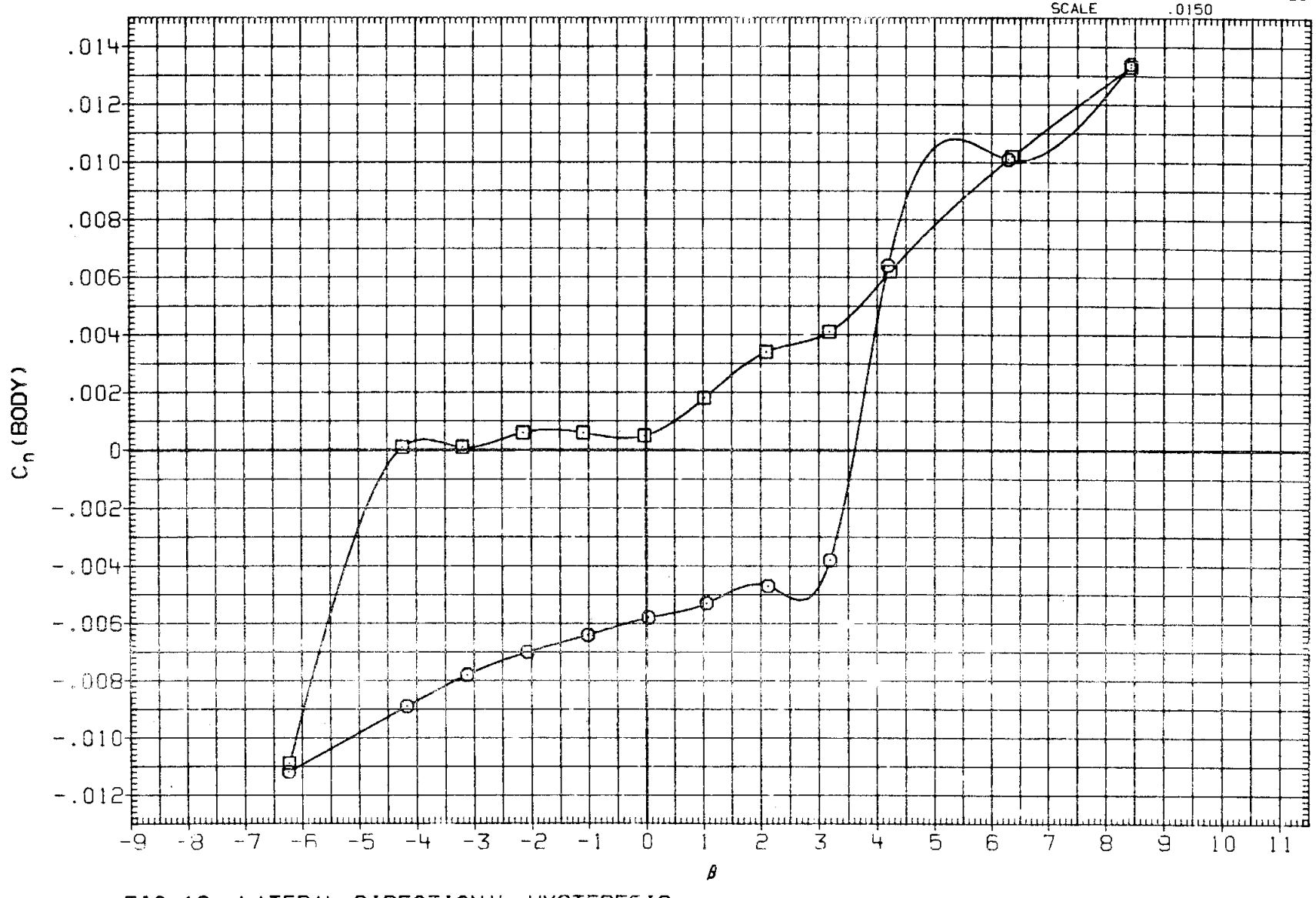

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B089	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	55.000	15.000	.000
R2B090	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	55.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

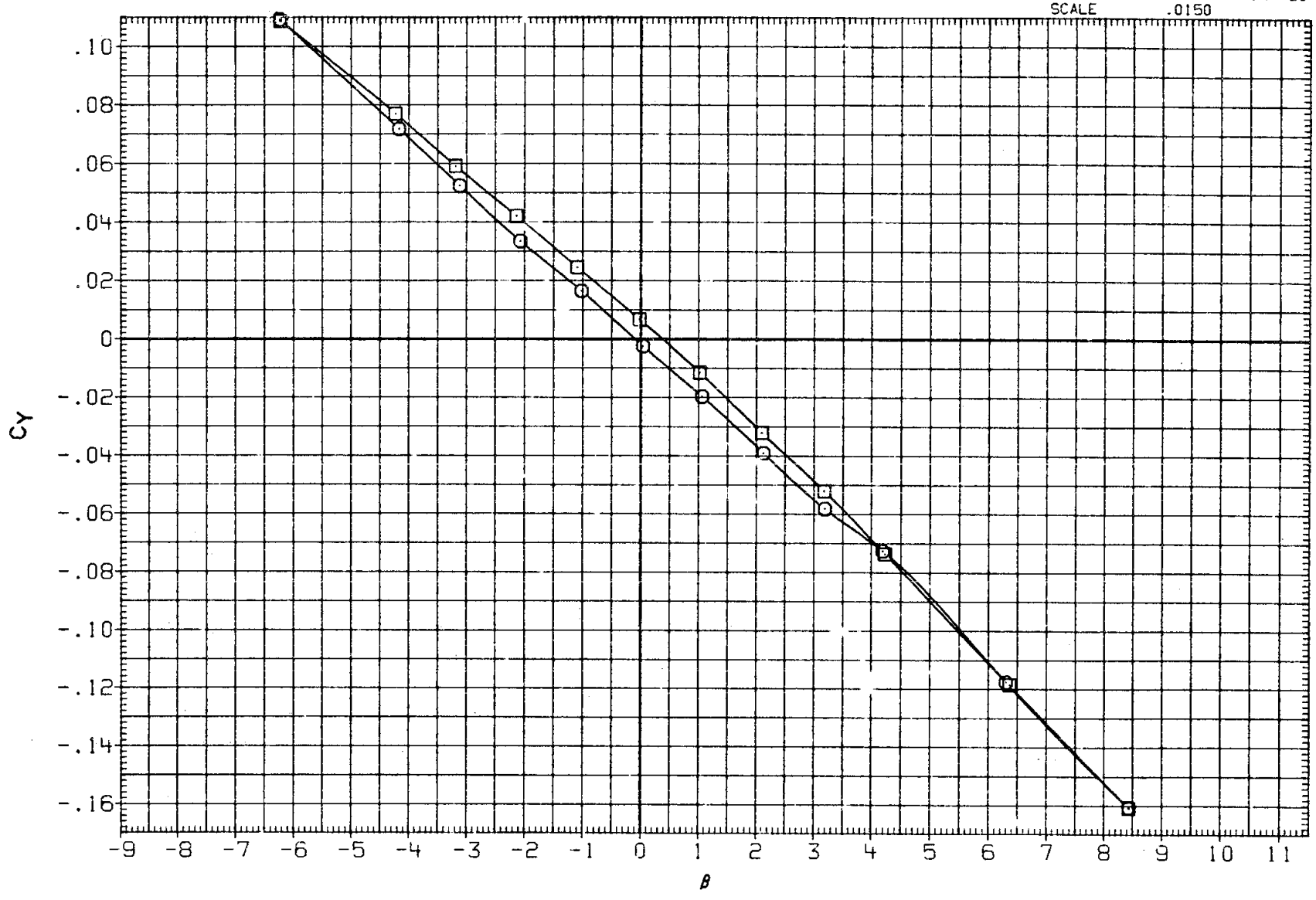

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B113	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	15.000	.000
R2B114	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

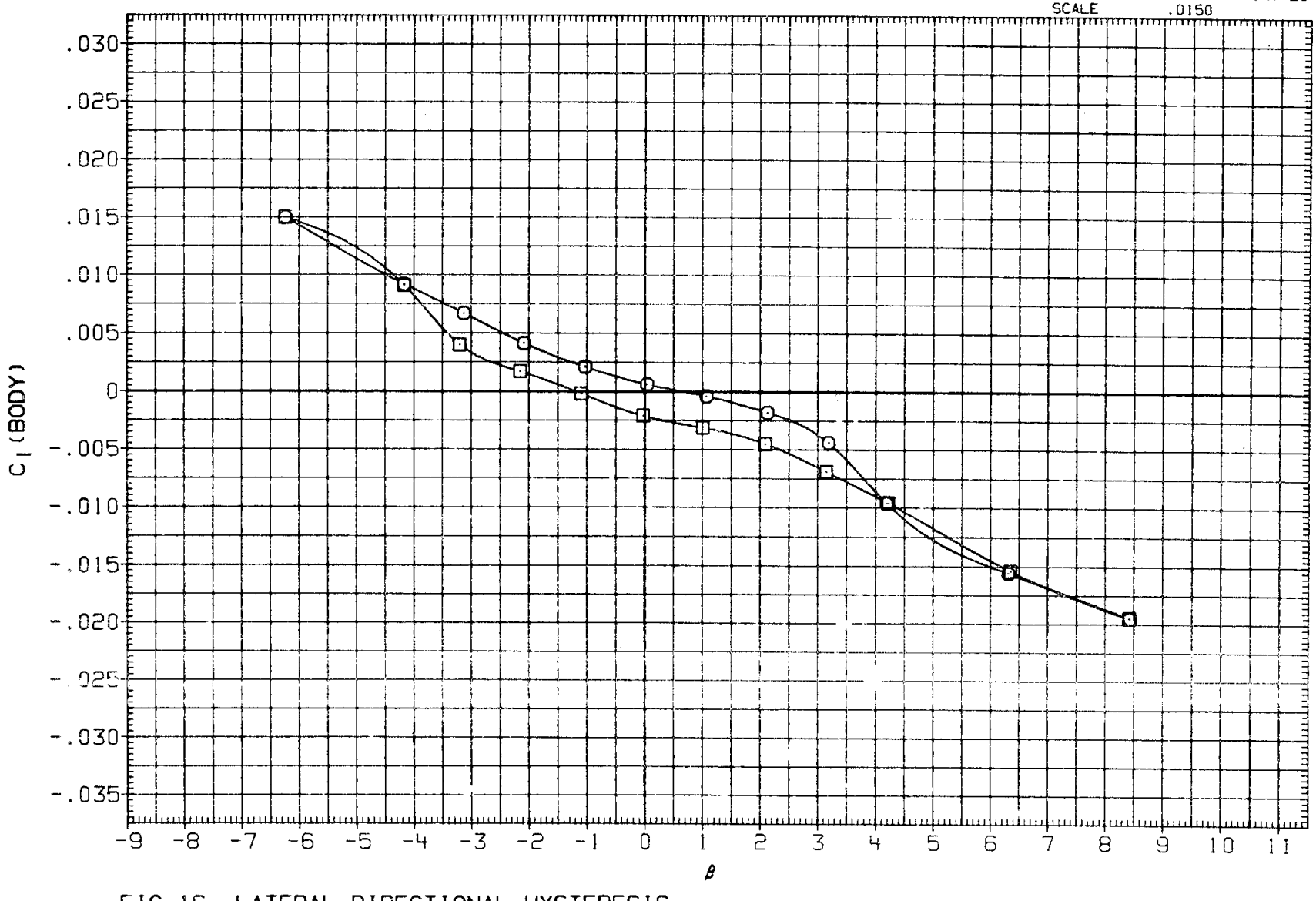

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B113	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	15.000	.000
R2B114	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

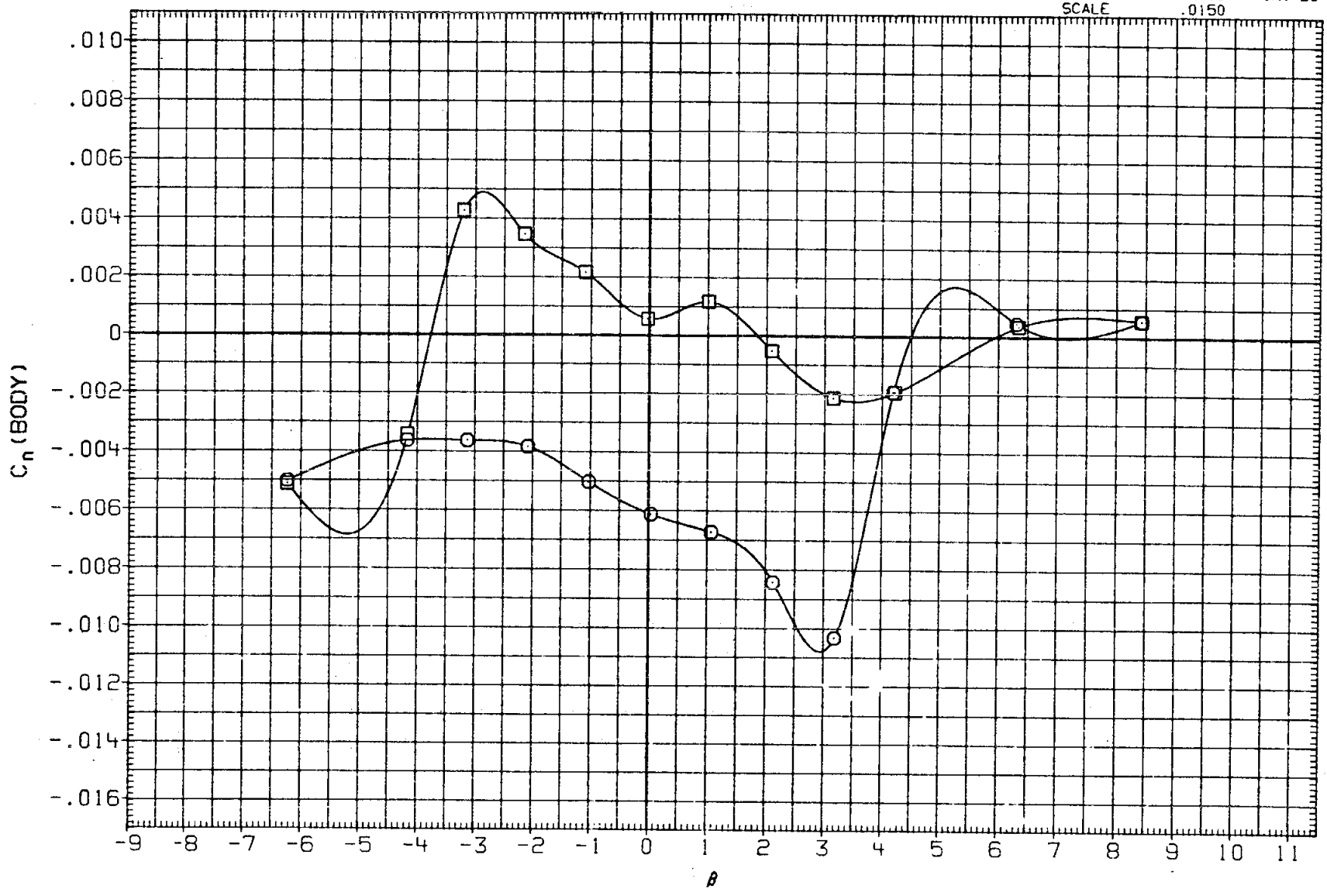

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	SDFLAP
R2B113	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	.000	[illegible]	[illegible]
R2B114	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

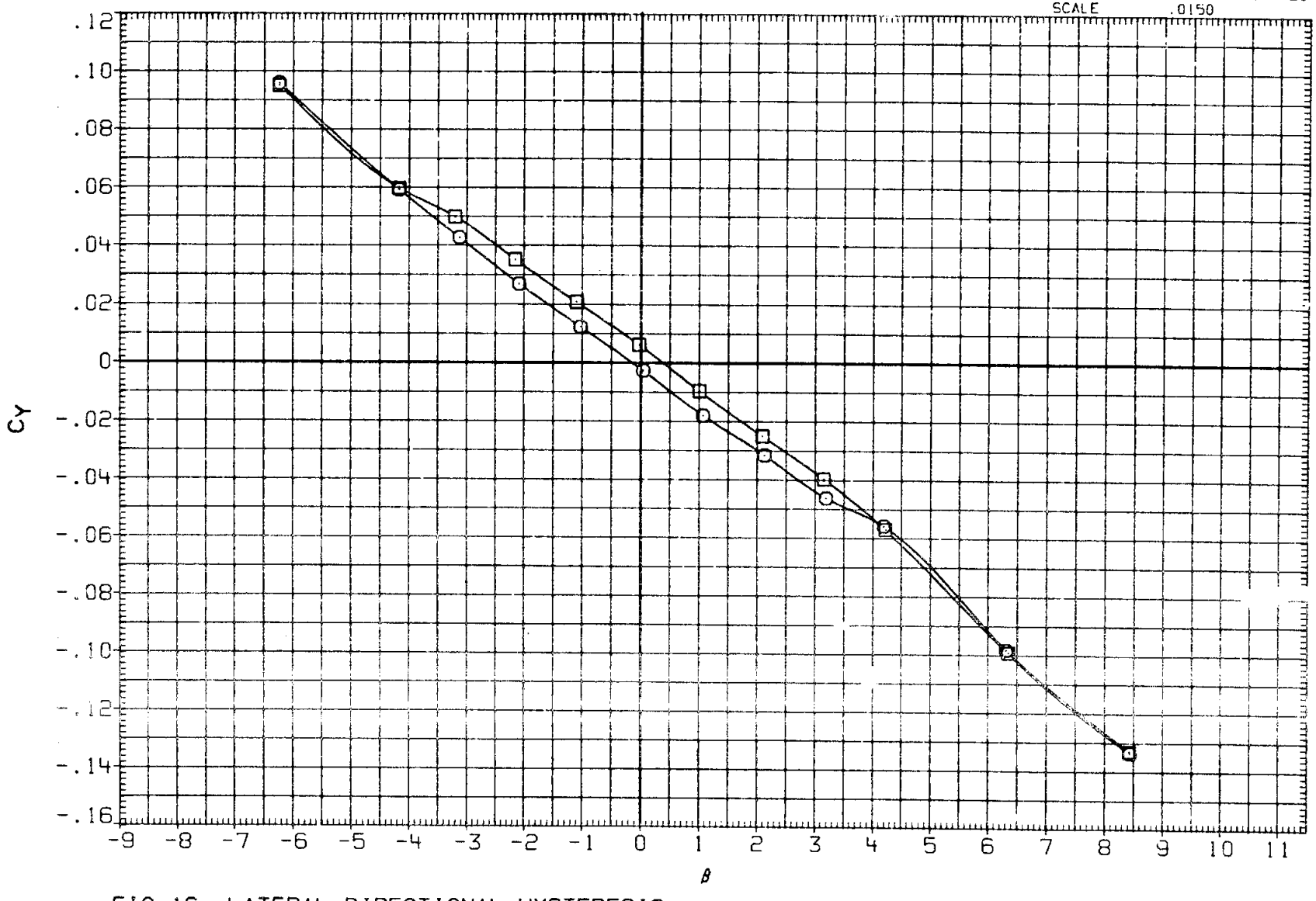

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B125	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	.000	5.000	.000
R2B126	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

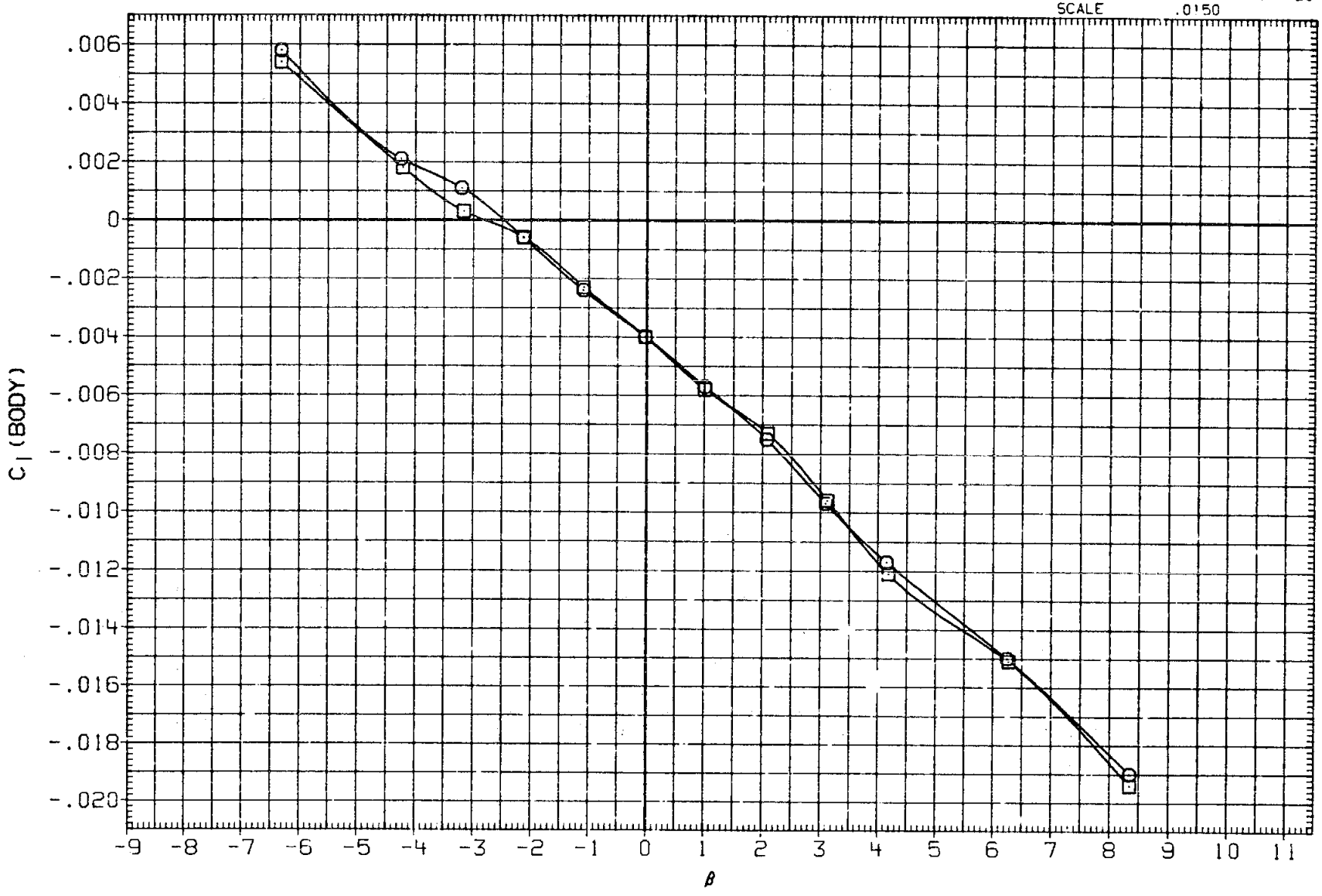

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	PODLA
R28125	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	.000	5.000	.000
R28126	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

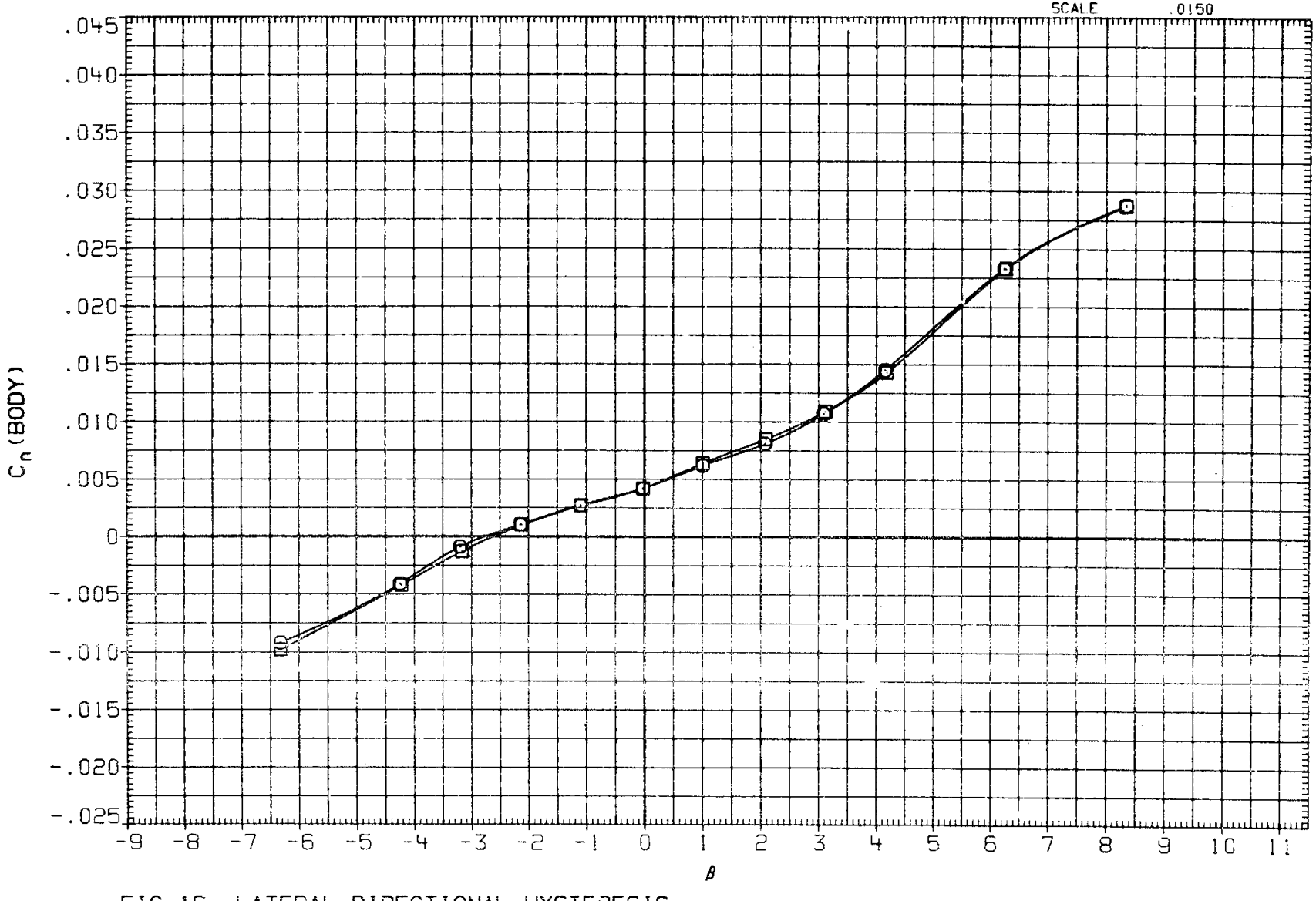

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B125	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-10.000	.000	5.000	.000
R2B126	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-10.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

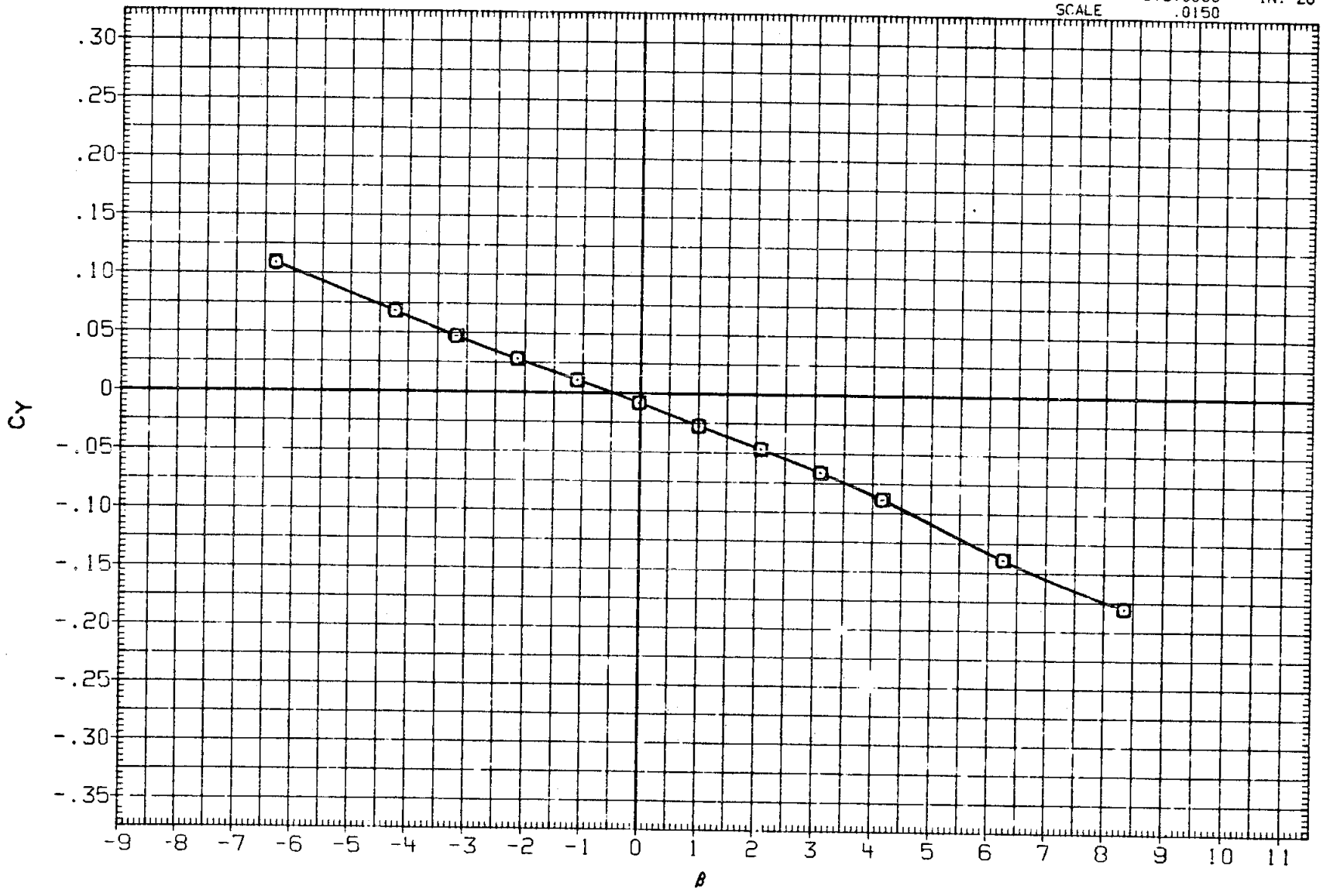

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B133	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	.000	5.000	.000
R2B134	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

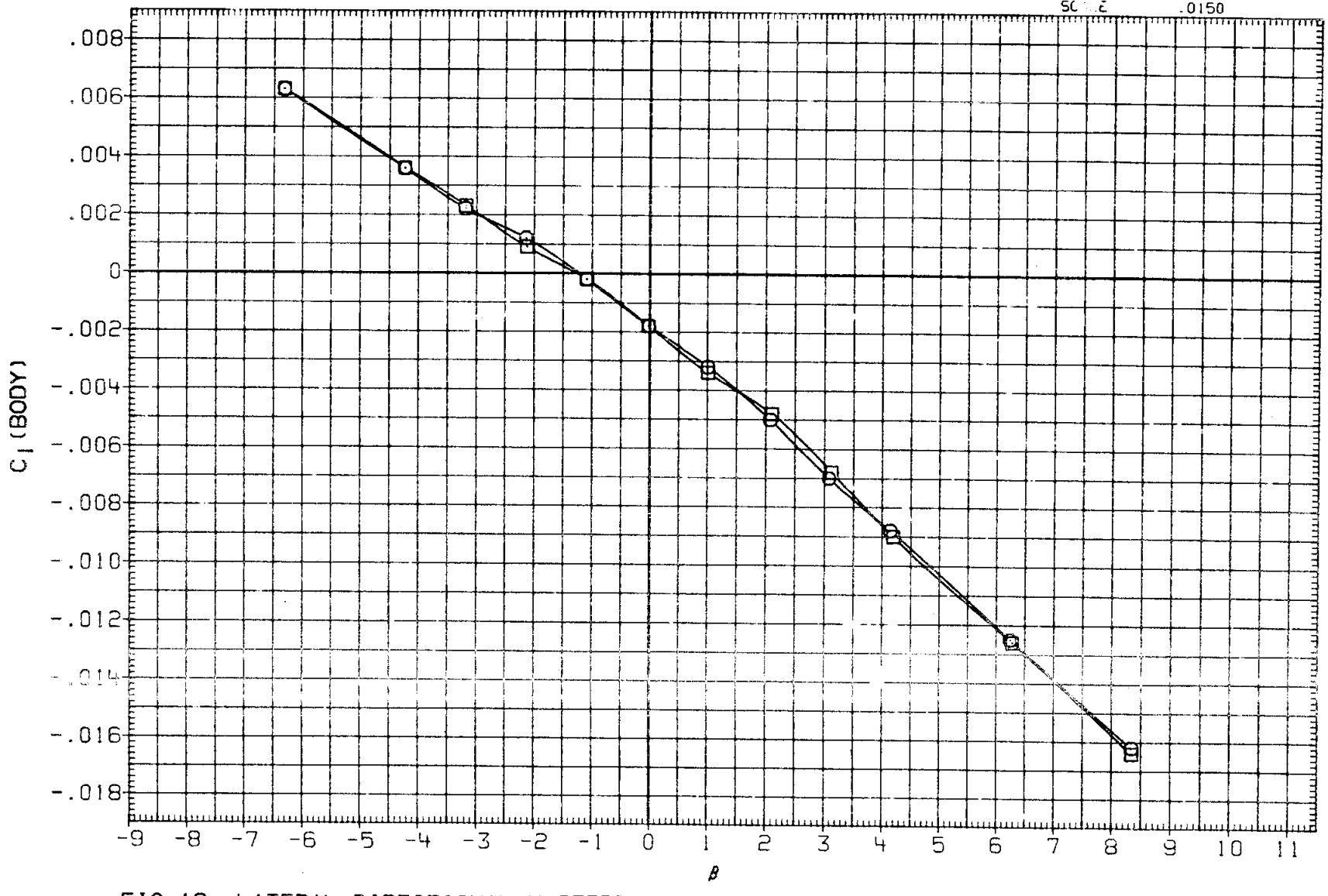

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B133	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	.000	5.000	.000
R2B134	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

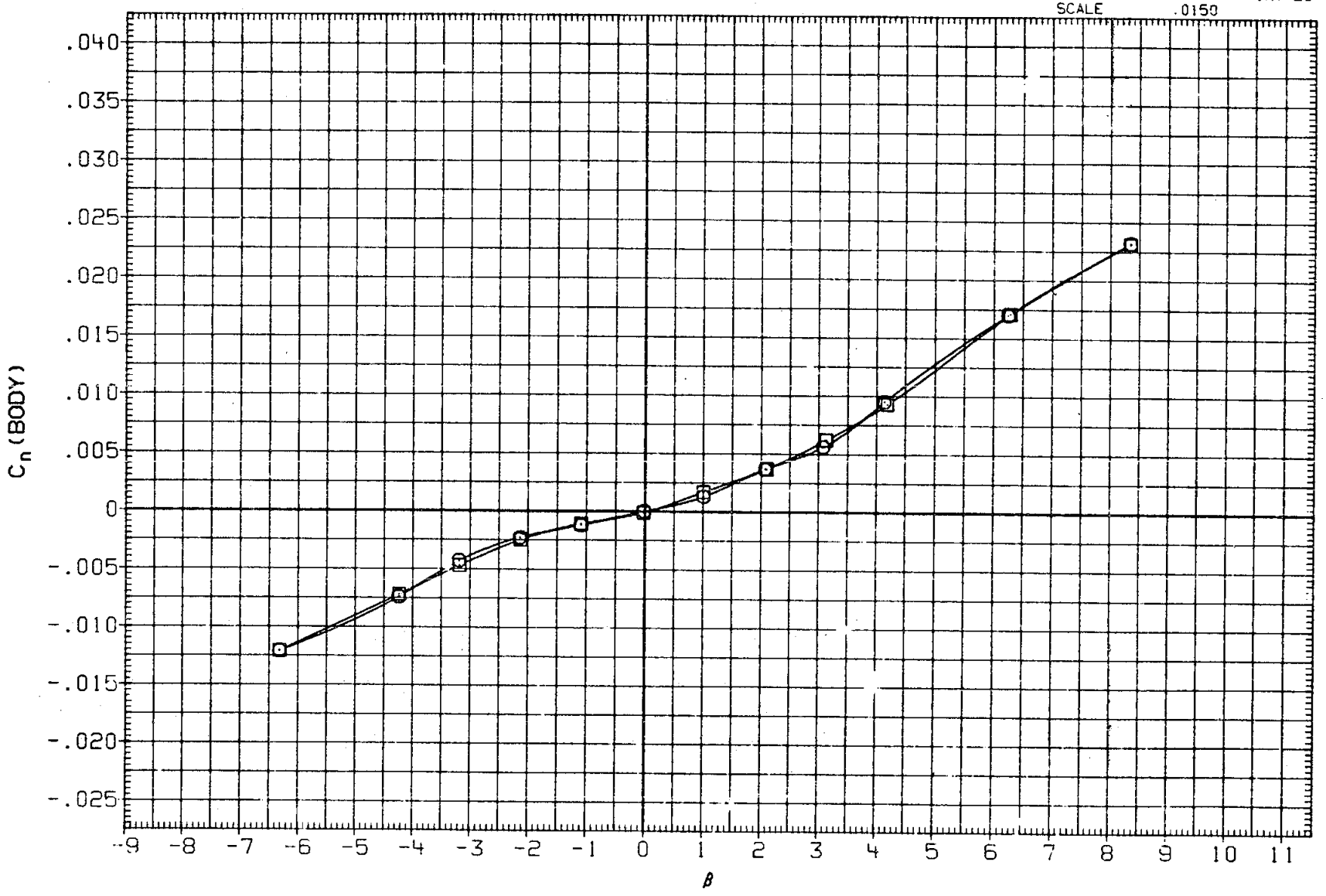

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BDFLAP
R2B133	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-5.000	.000	5.000	.000
R2B134	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-5.000	.000	5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

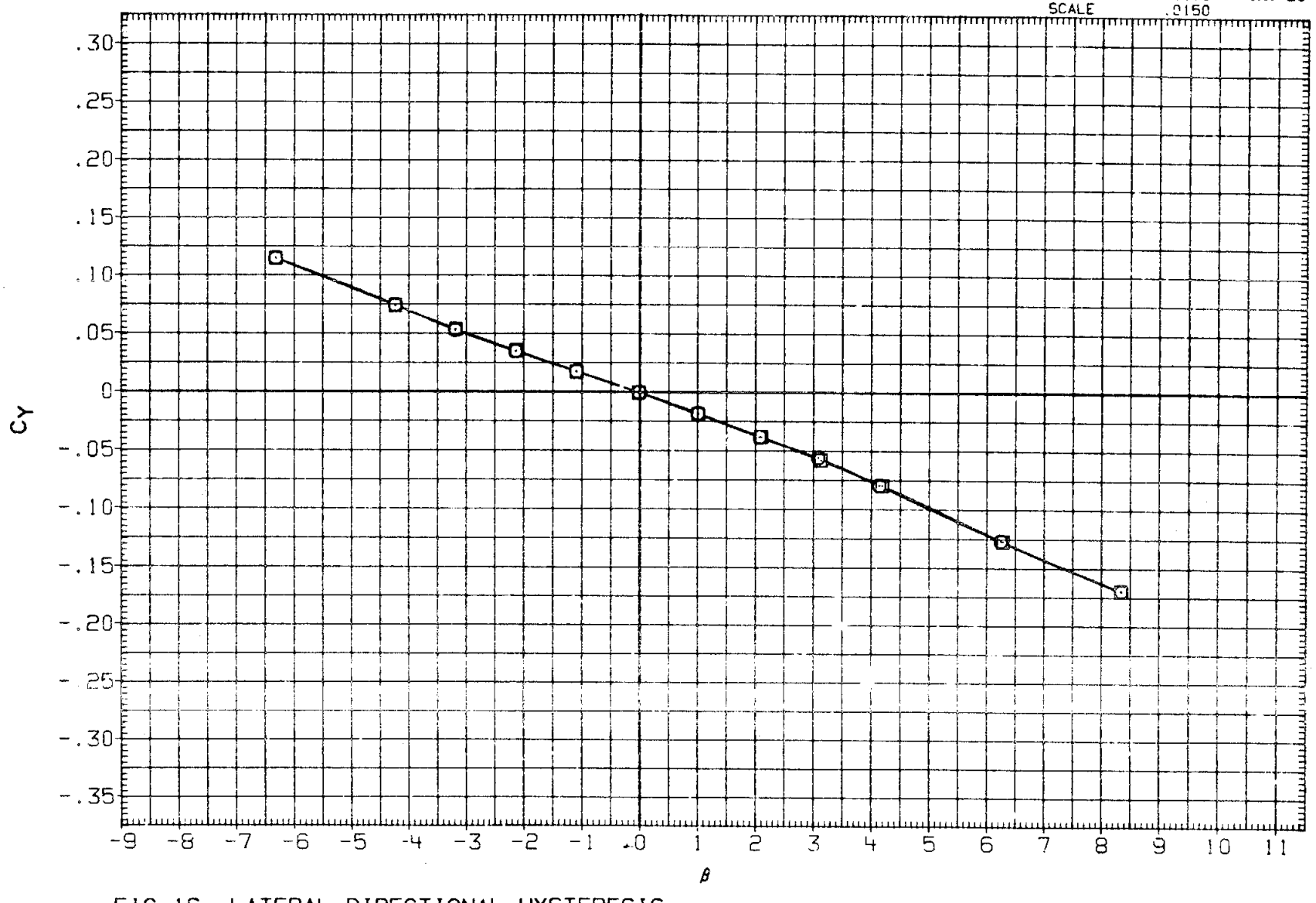

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B174	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	15.000	.000
R2B175	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	15.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

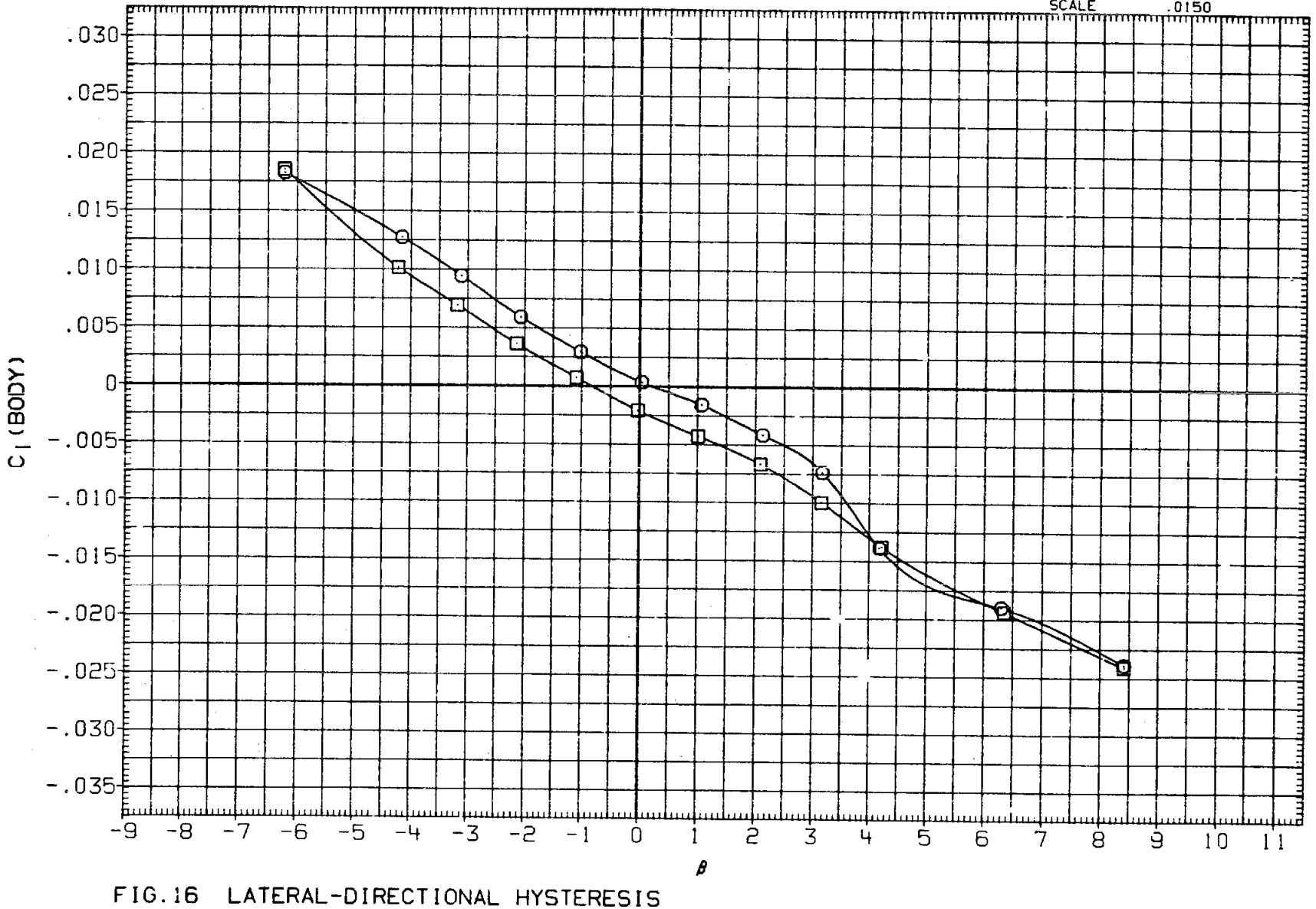

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B174	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	15.000	.000
R2B175	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	15.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

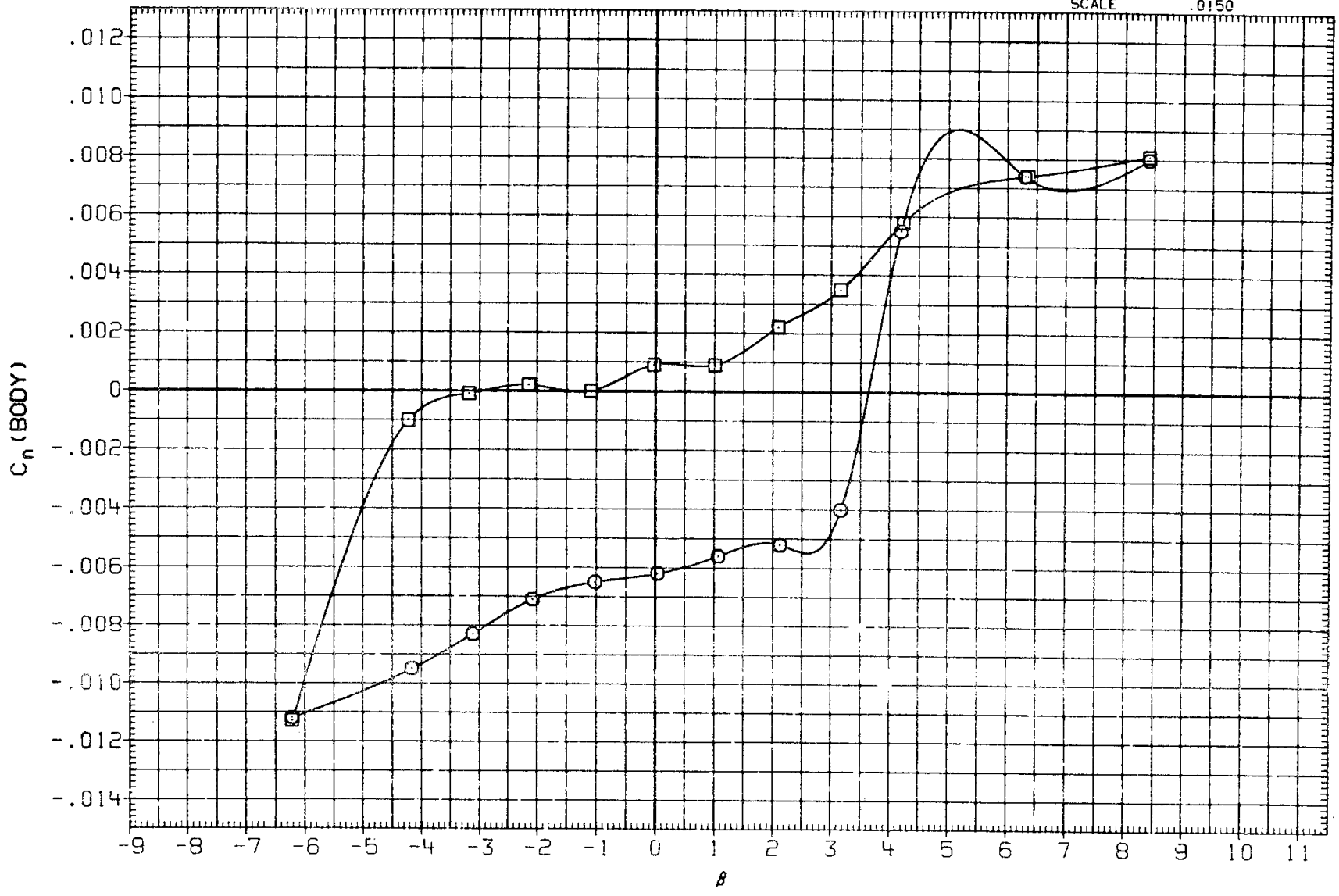

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B174	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	15.000	15.000	.000
R2B175	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	15.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

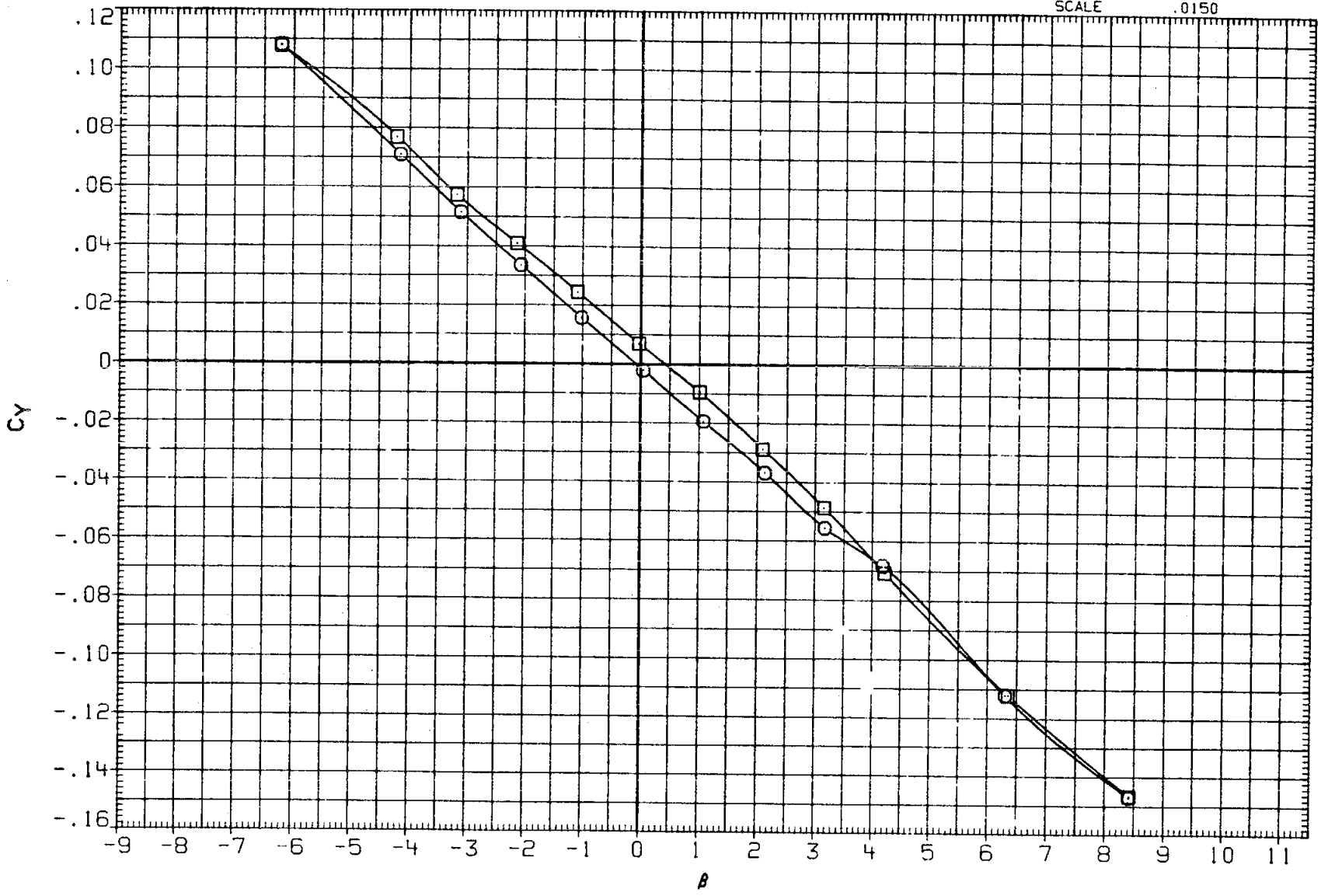

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B182	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	15.000	.000
R2B183	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	40.000	15.000	.000

REFERENCE INFORMATION

SREF	3690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

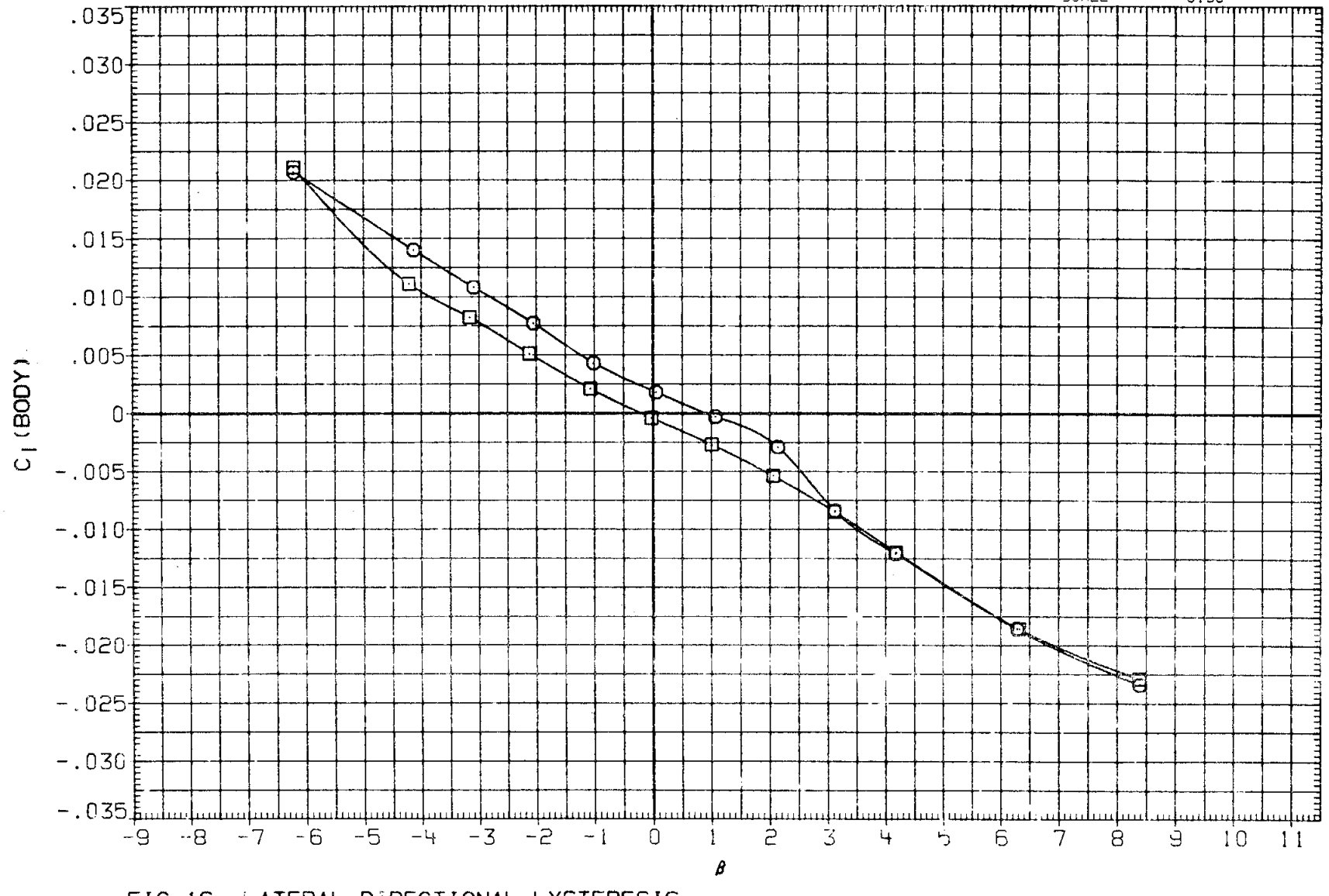

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B182	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	15.000	.000
R2B183	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	40.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

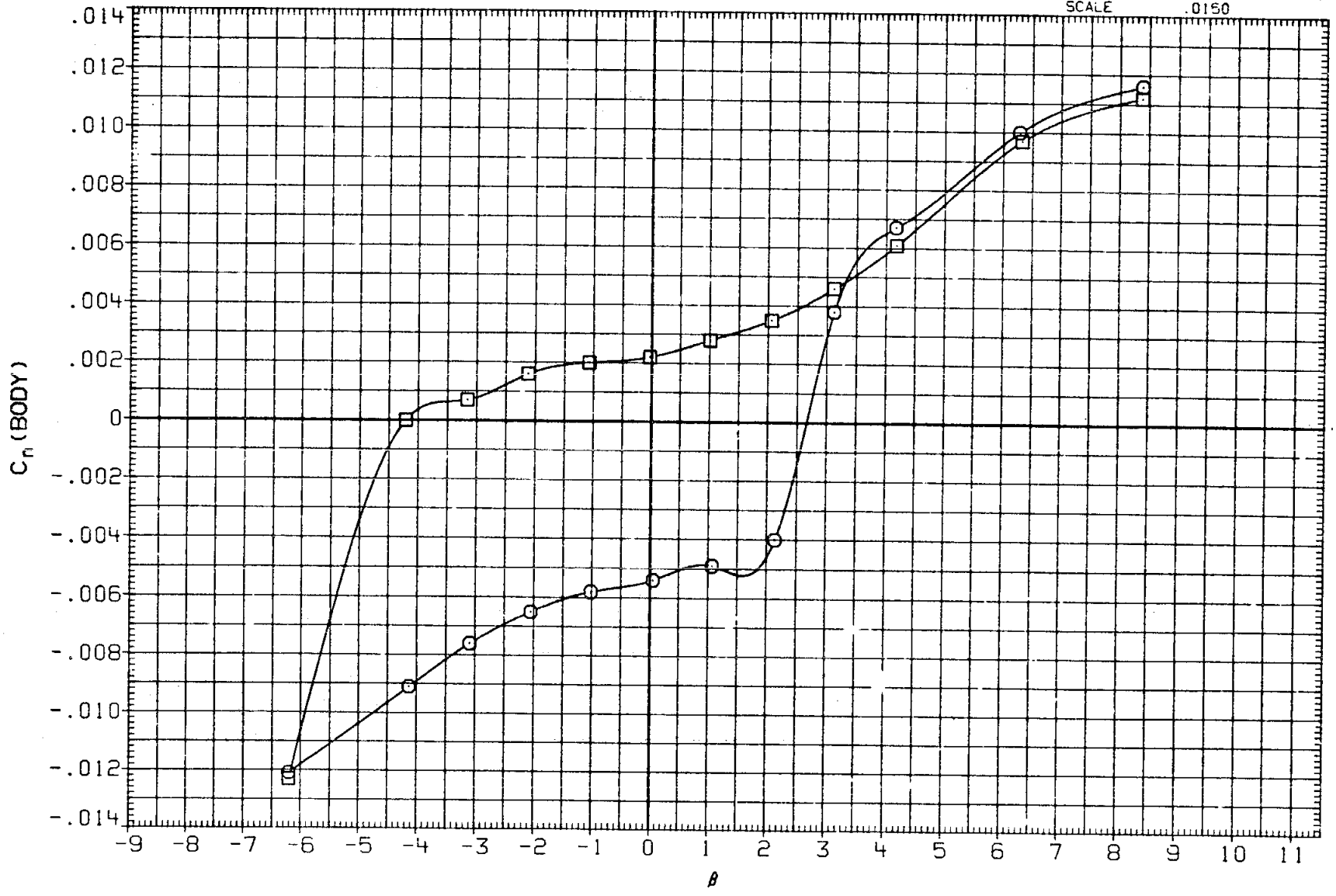

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPUBRK	ALPHA	BD. LAP
R2B182	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	40.000	15.000	.000
R2B183	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	40.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

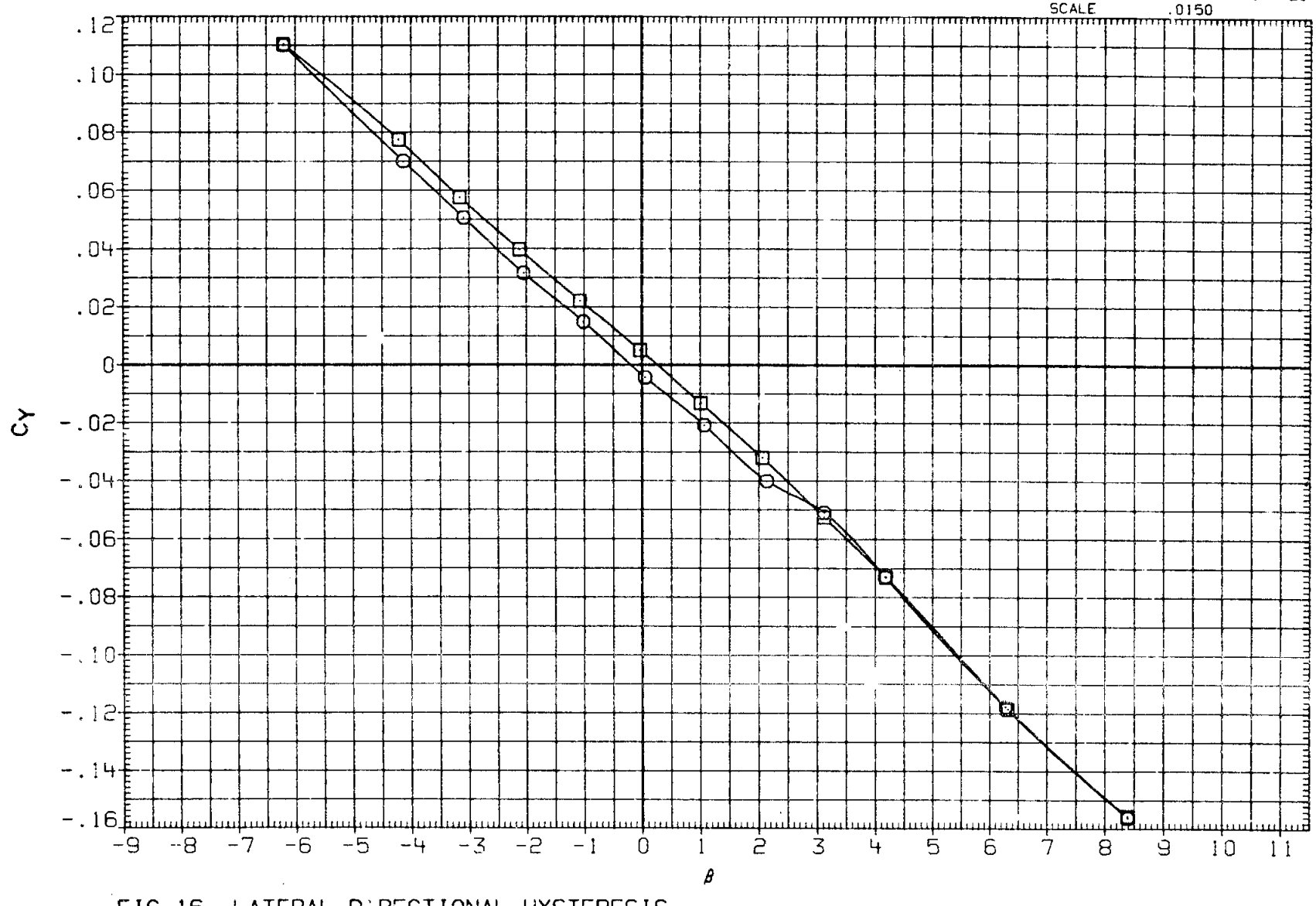

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B190	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	15.000	.000
R2B191	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	70.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

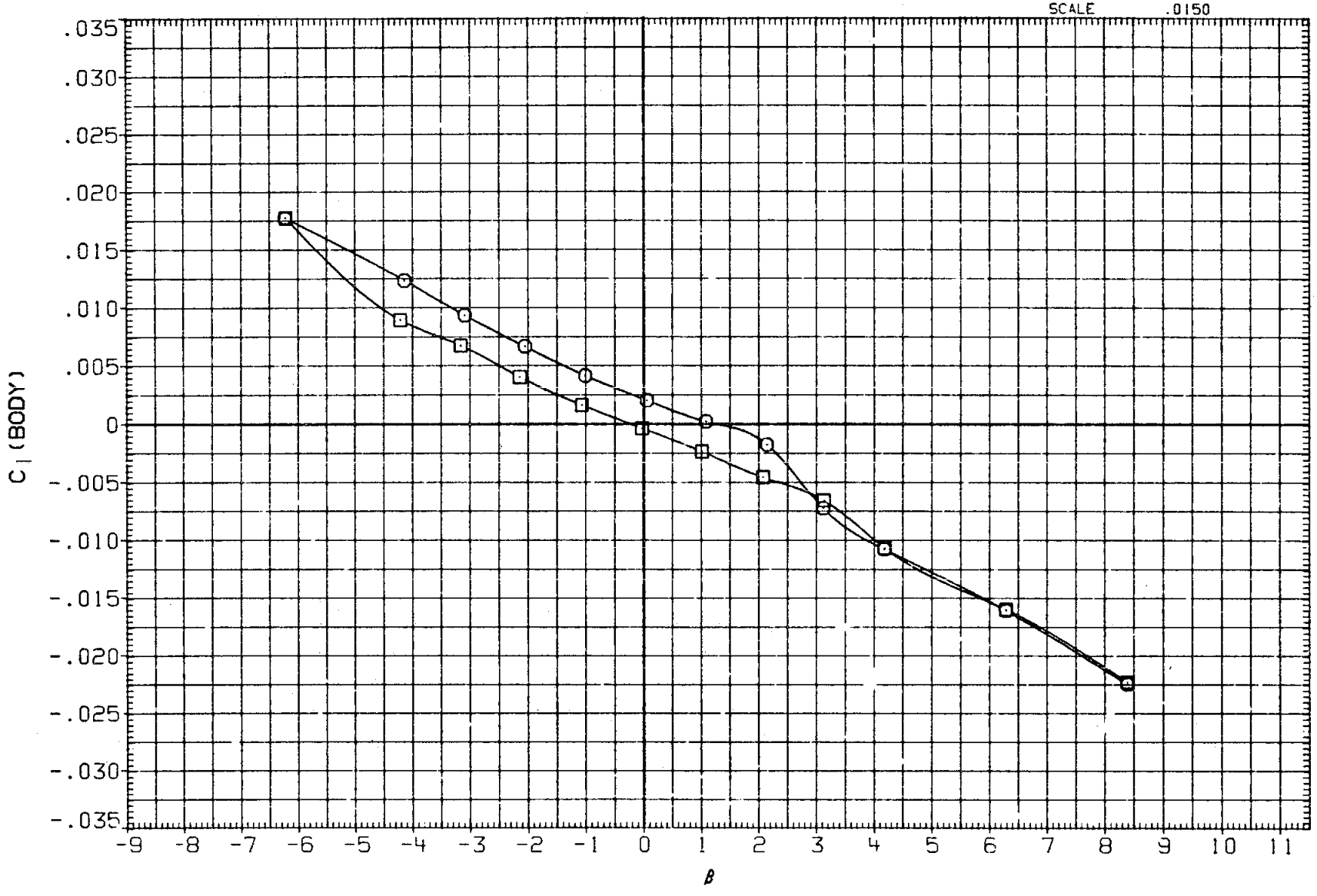

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28190	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	[illegible]	.000
R28191	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	70.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

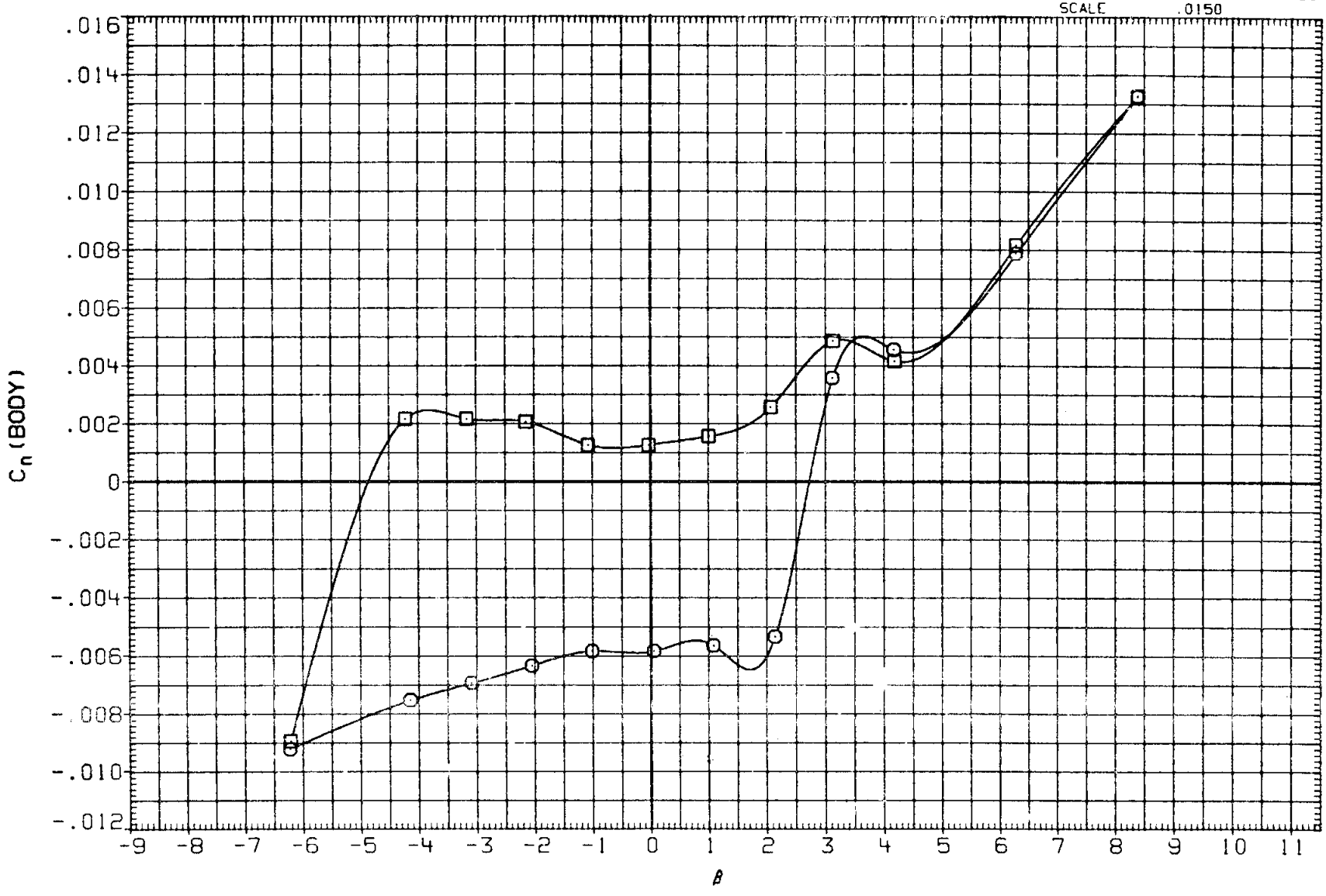

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28190	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	70.000	15.000	.000
R28191	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	70.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

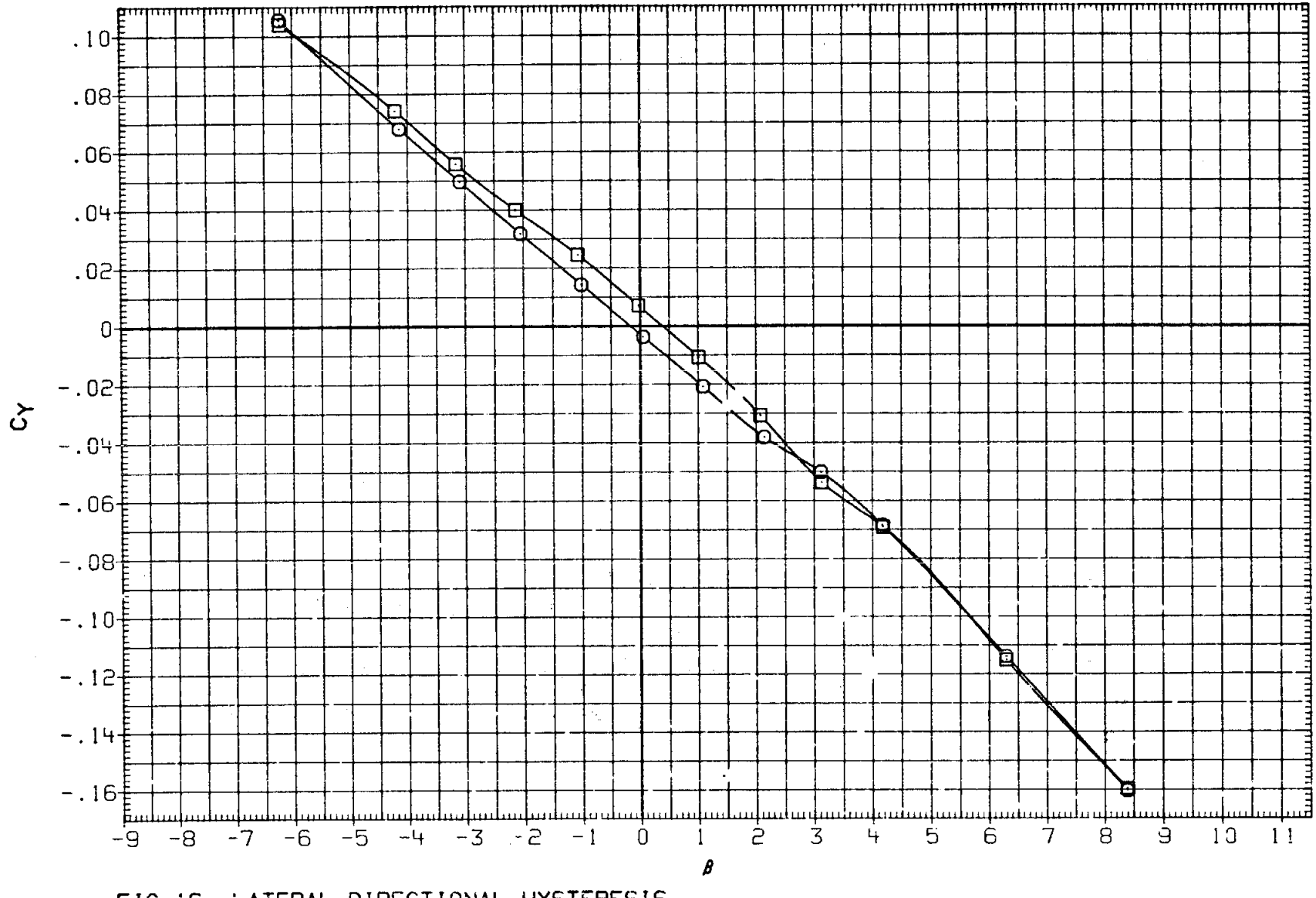

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28198	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	22.000
R28199	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	22.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

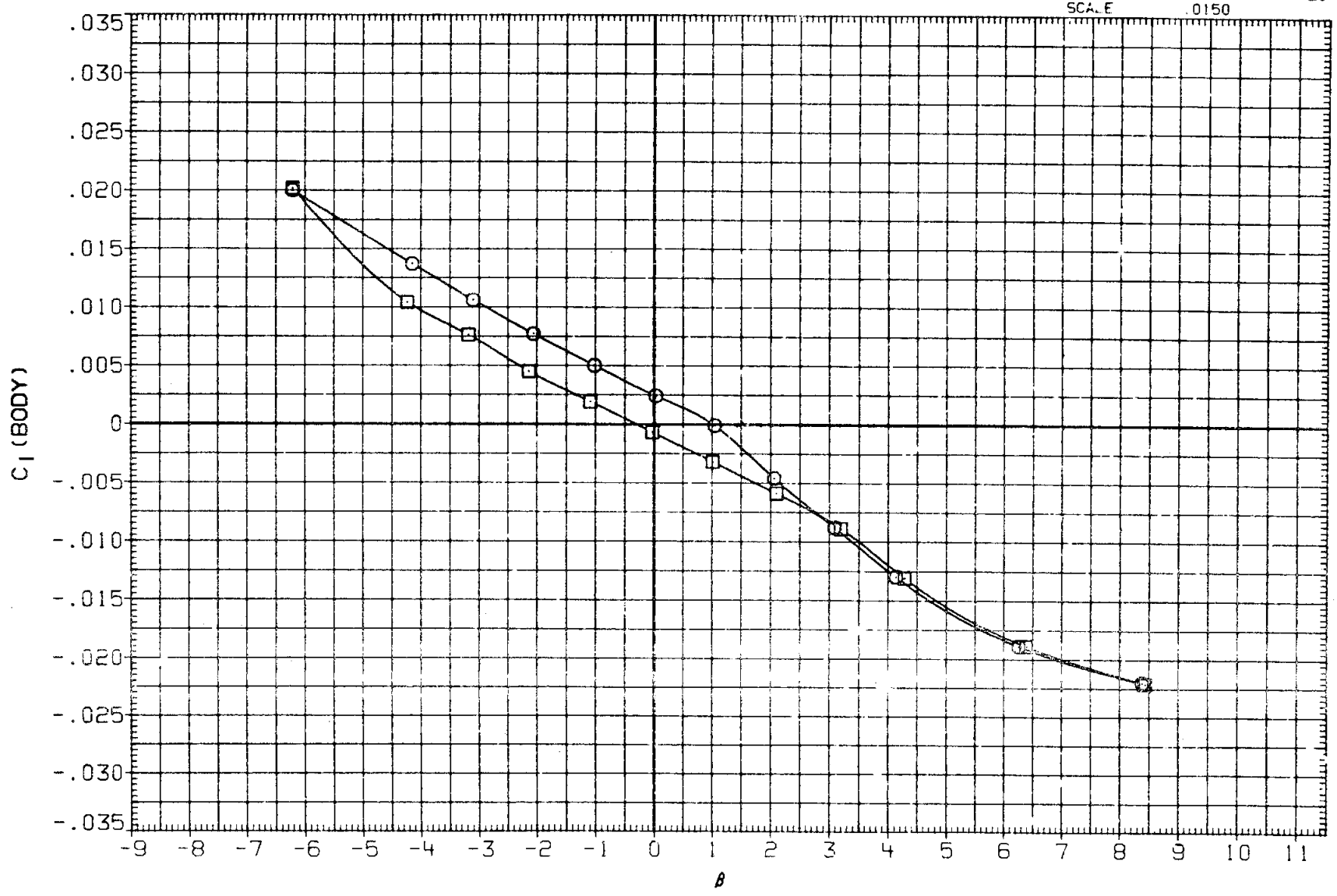

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B198	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	22.000
R2B199	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	22.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

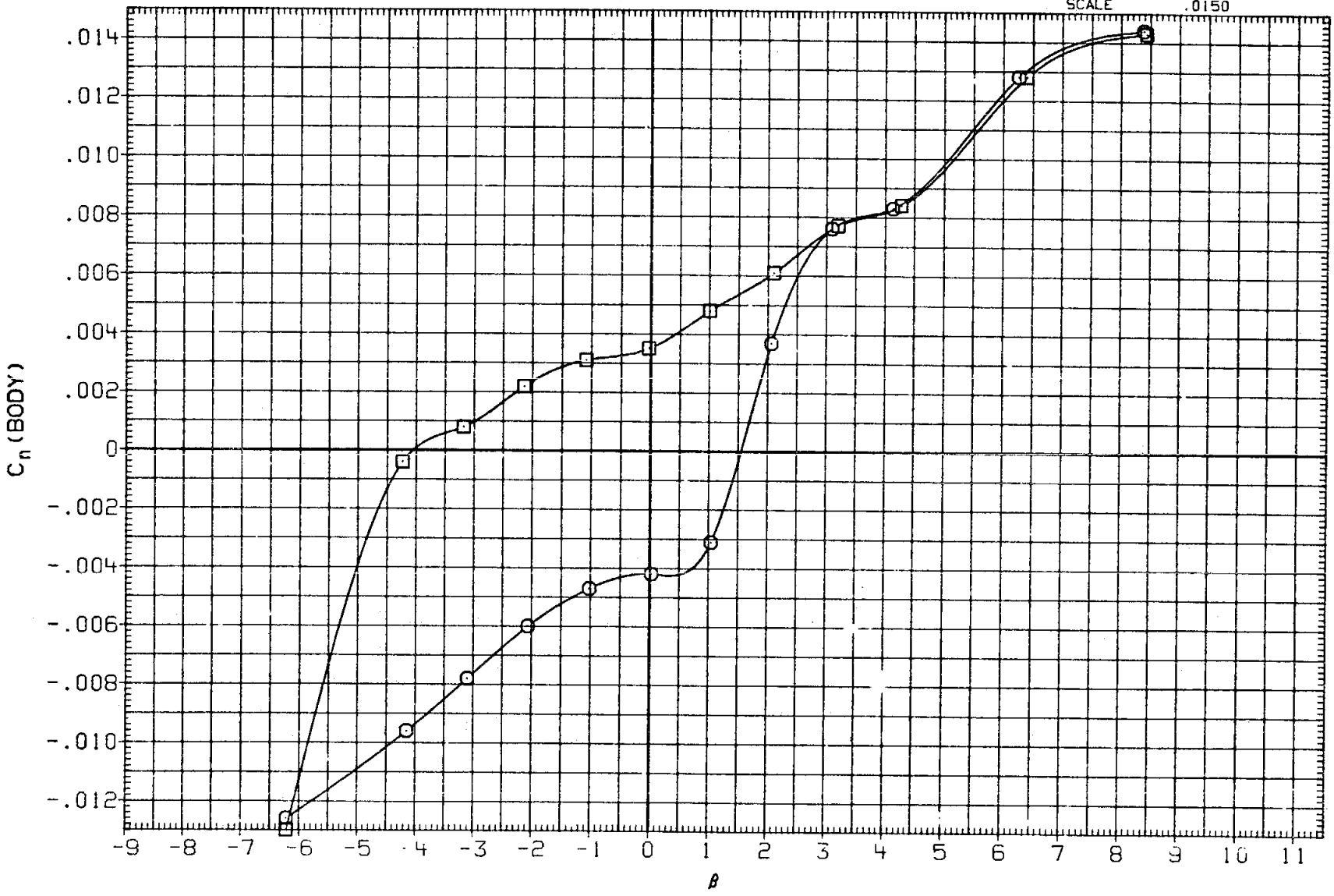

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B198	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	22.000
R2B199	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	22.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

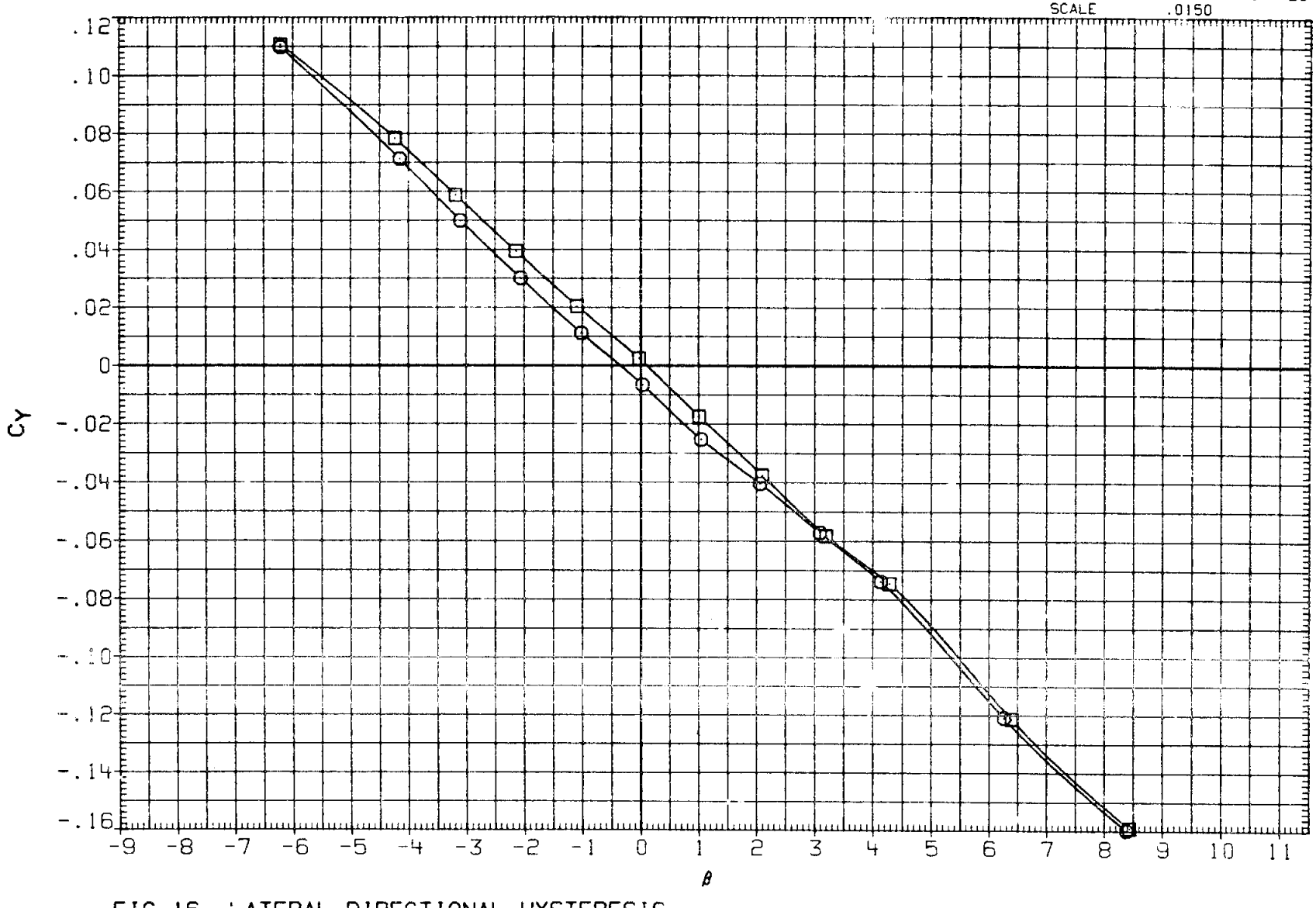

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B206	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	6.000
R2B207	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

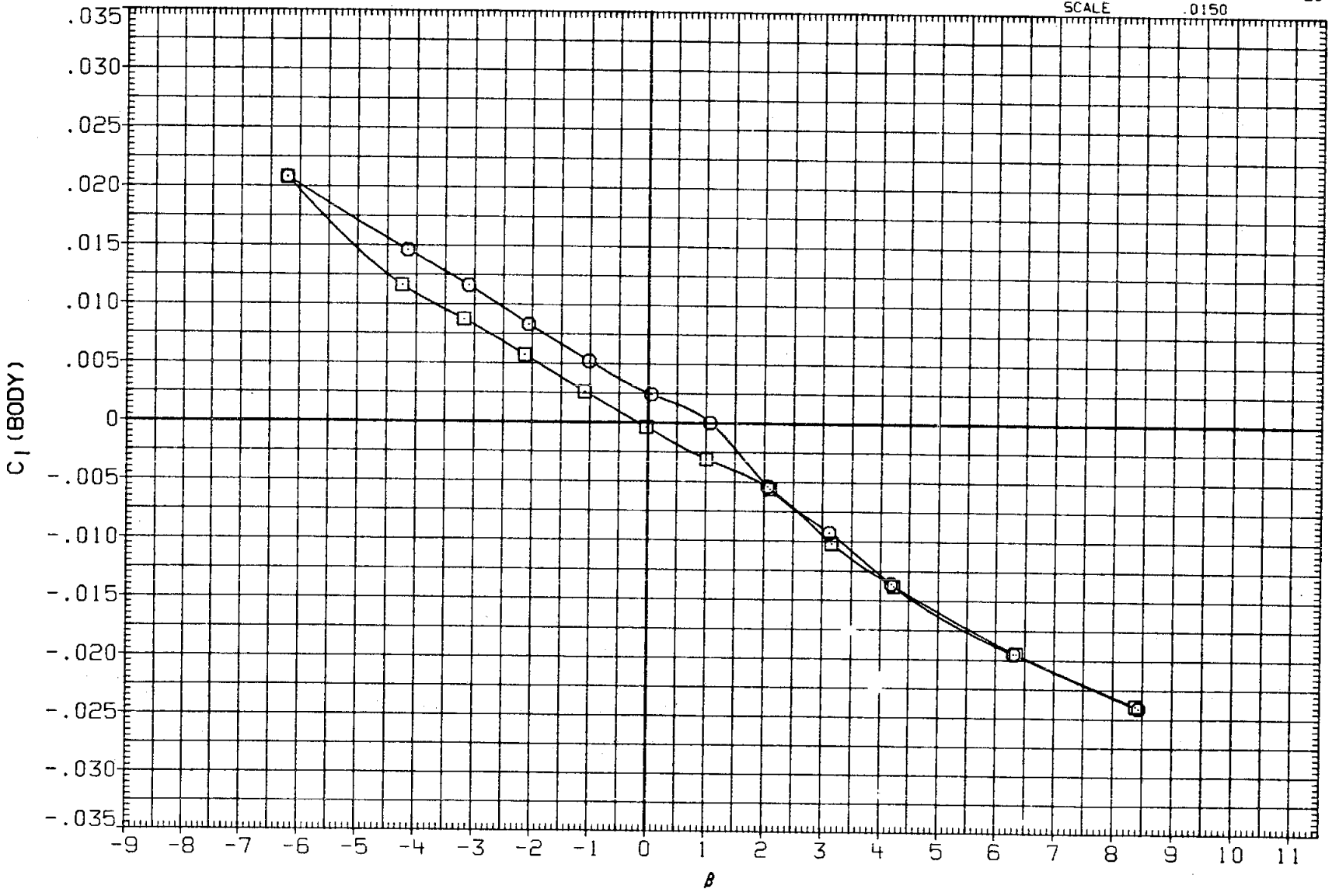

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BOFLAP
R2B206	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	6.000
R2B207	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

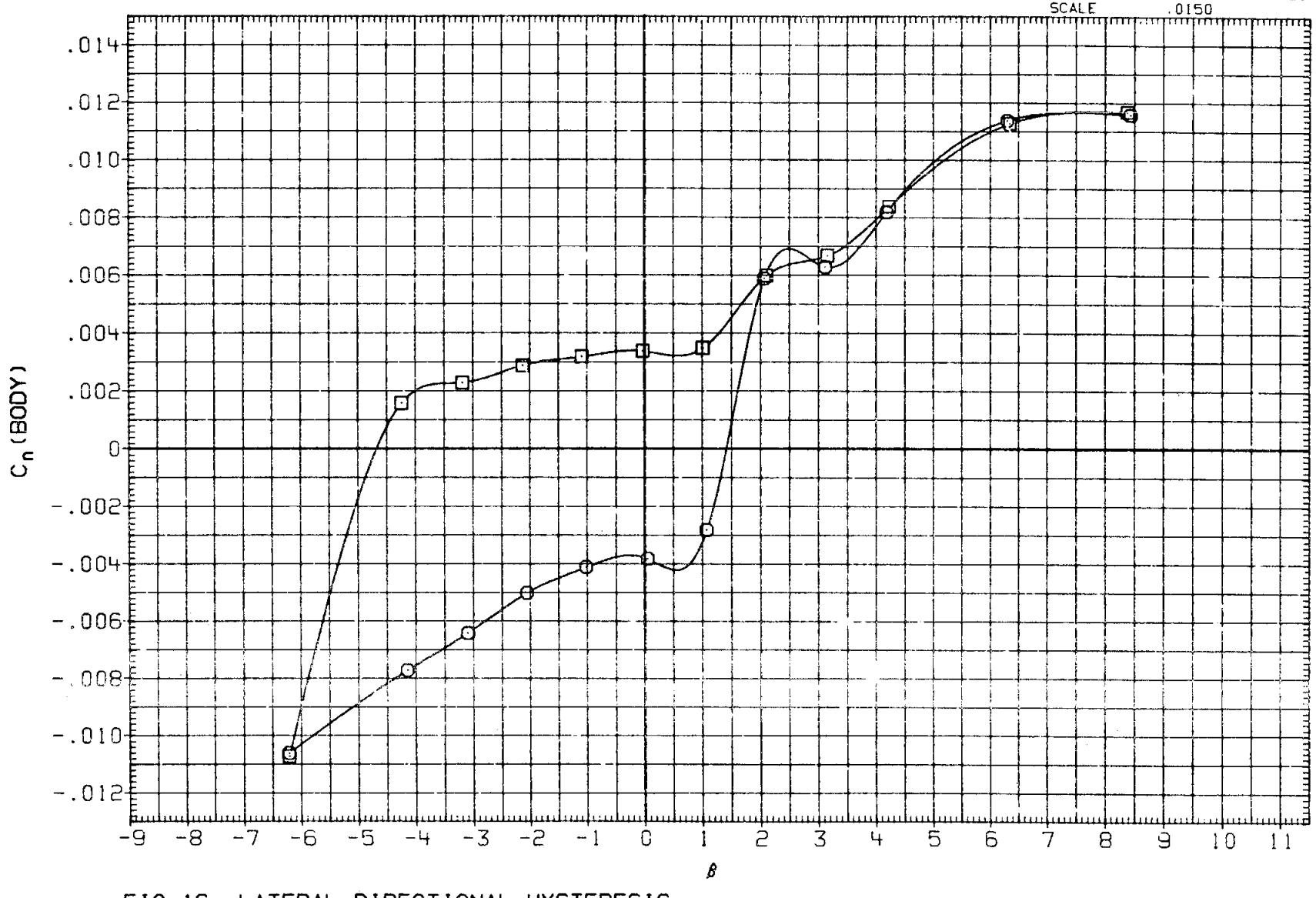

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B206	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	6.000
R2B207	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

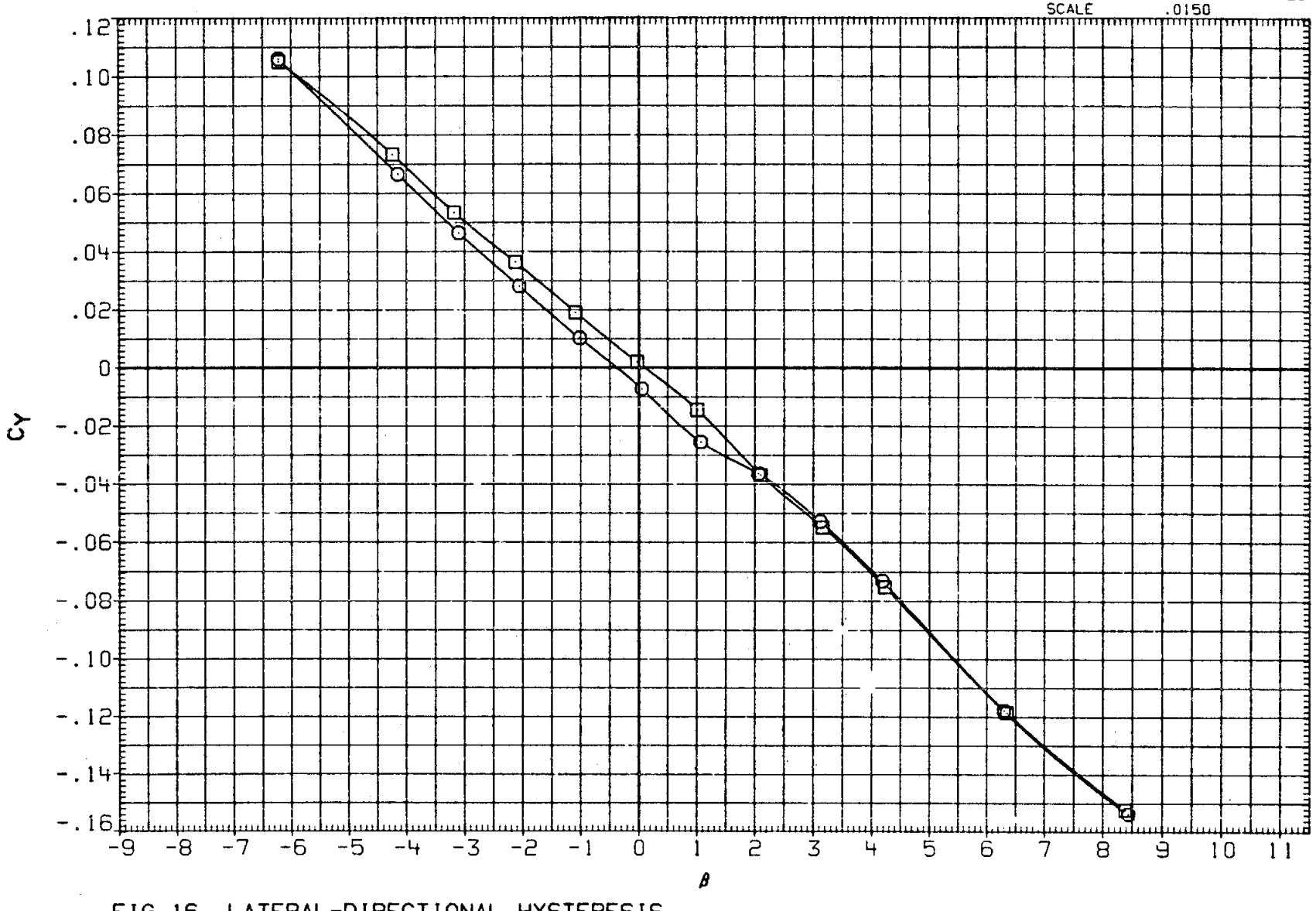

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B214	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	-6.000
R2B215	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	-6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

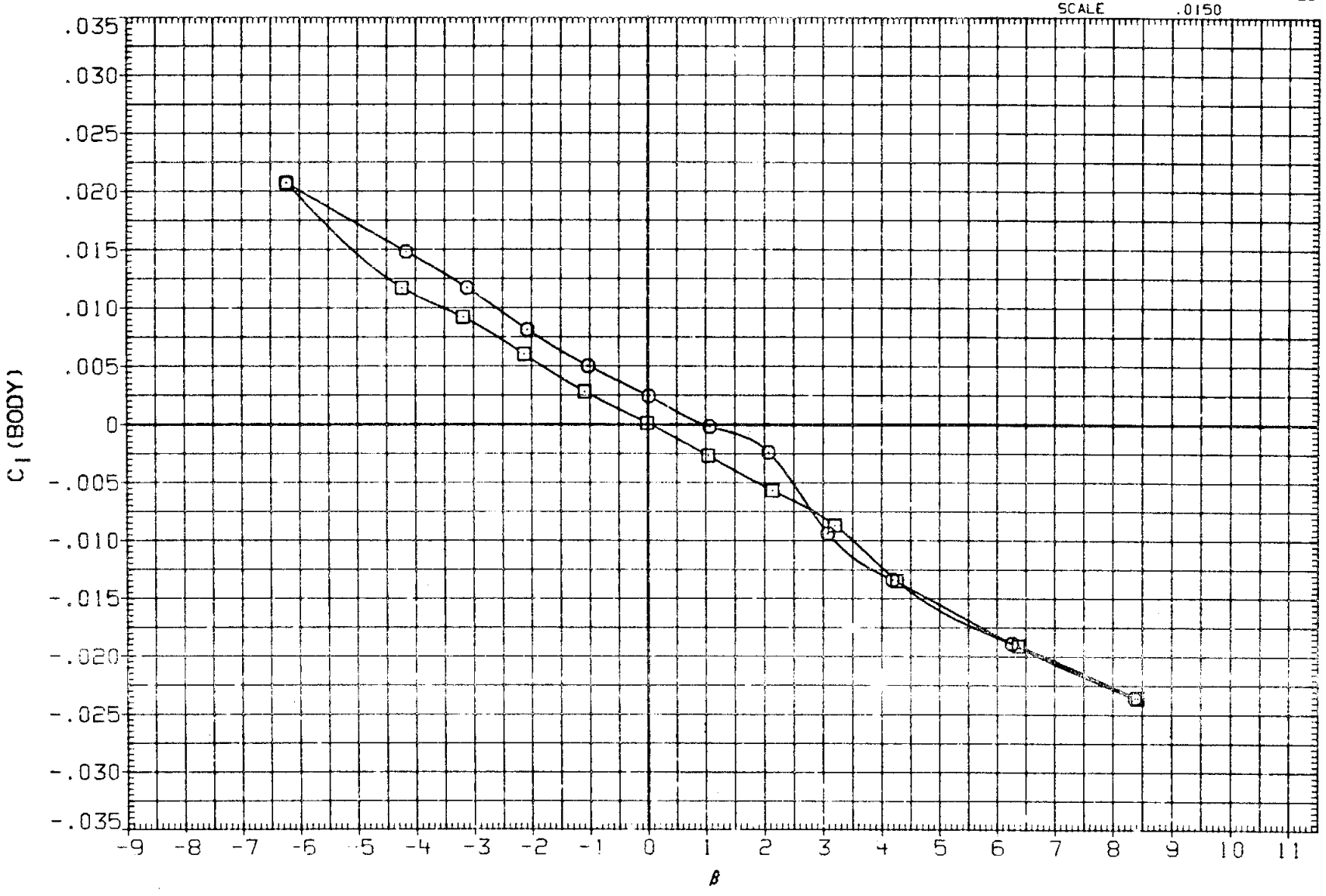

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B214	○	ARC 200-1 11(LA77) OV101	- TO + BETA	.000	25.000	15.000	-6.000
R2B215	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	.000	25.000	15.000	-6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

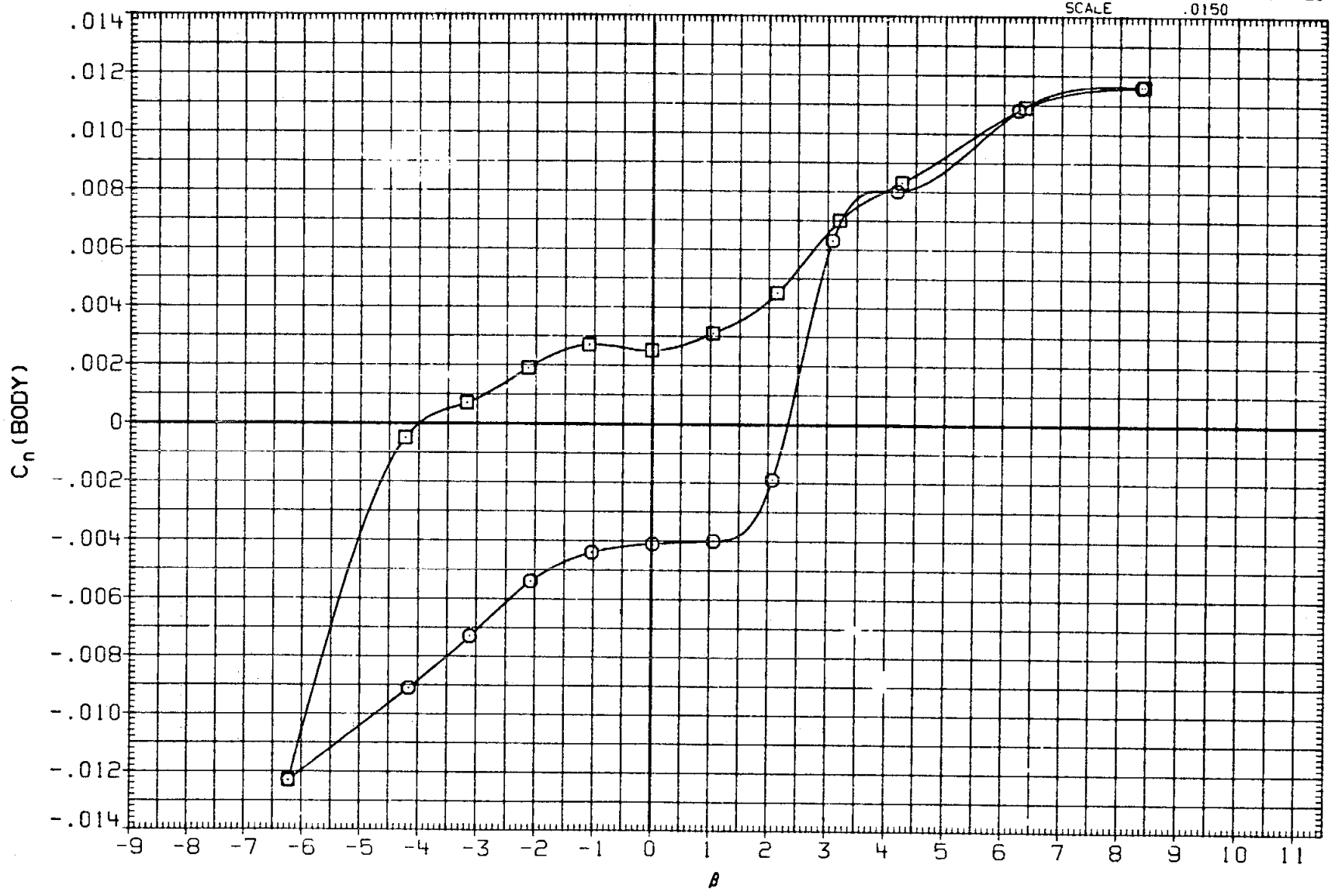

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BDFLAP
R2B214	○	ARC 200-1 1!(LA77) OV10!	- TO + BETA	.000	25.000	15.000	-6.000
R2B215	□	ARC 200-1 1!(LA77) OV10!	+ TO - BETA	.000	25.000	15.000	-6.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

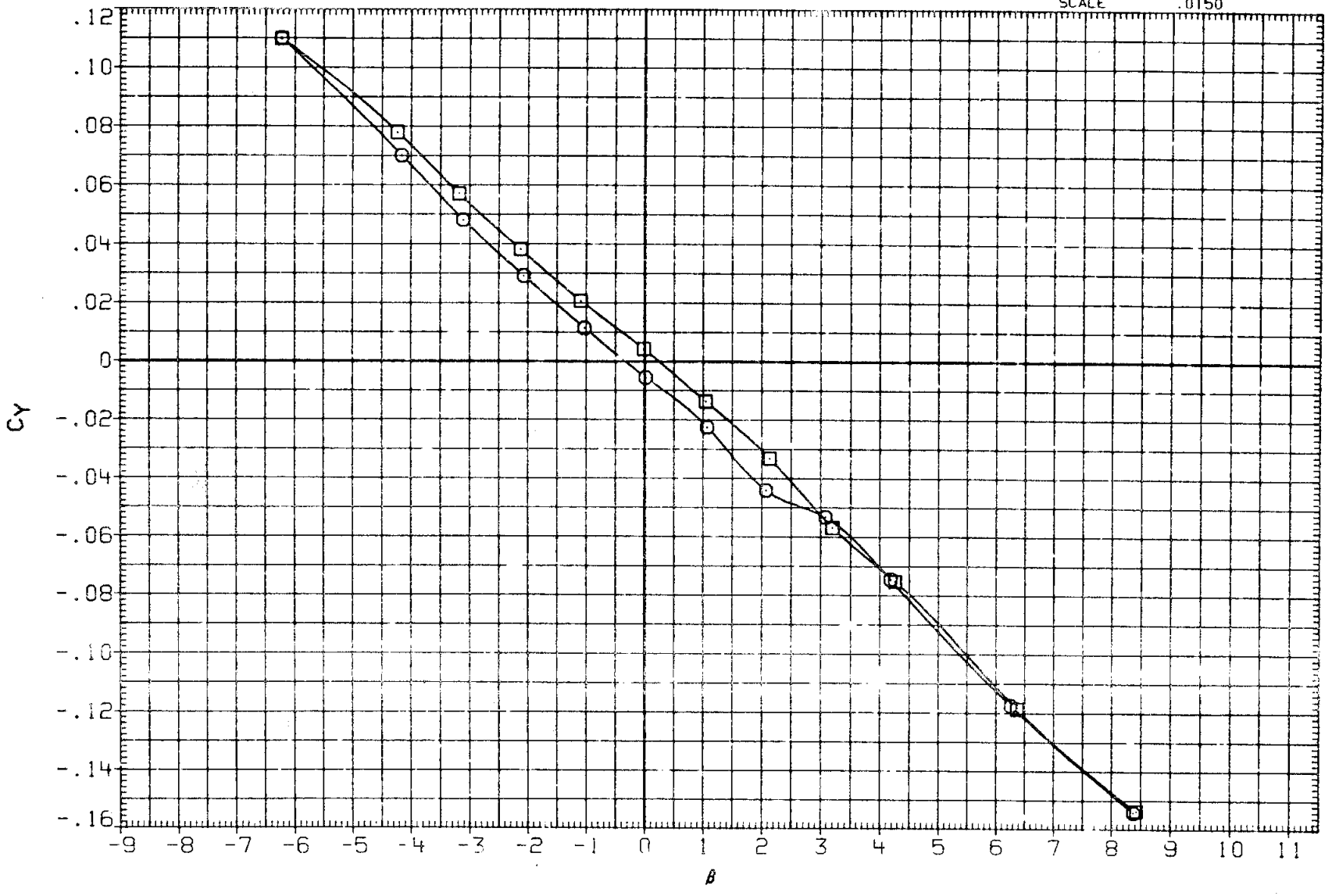

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B222	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	25.000	15.000	.000
R2B223	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

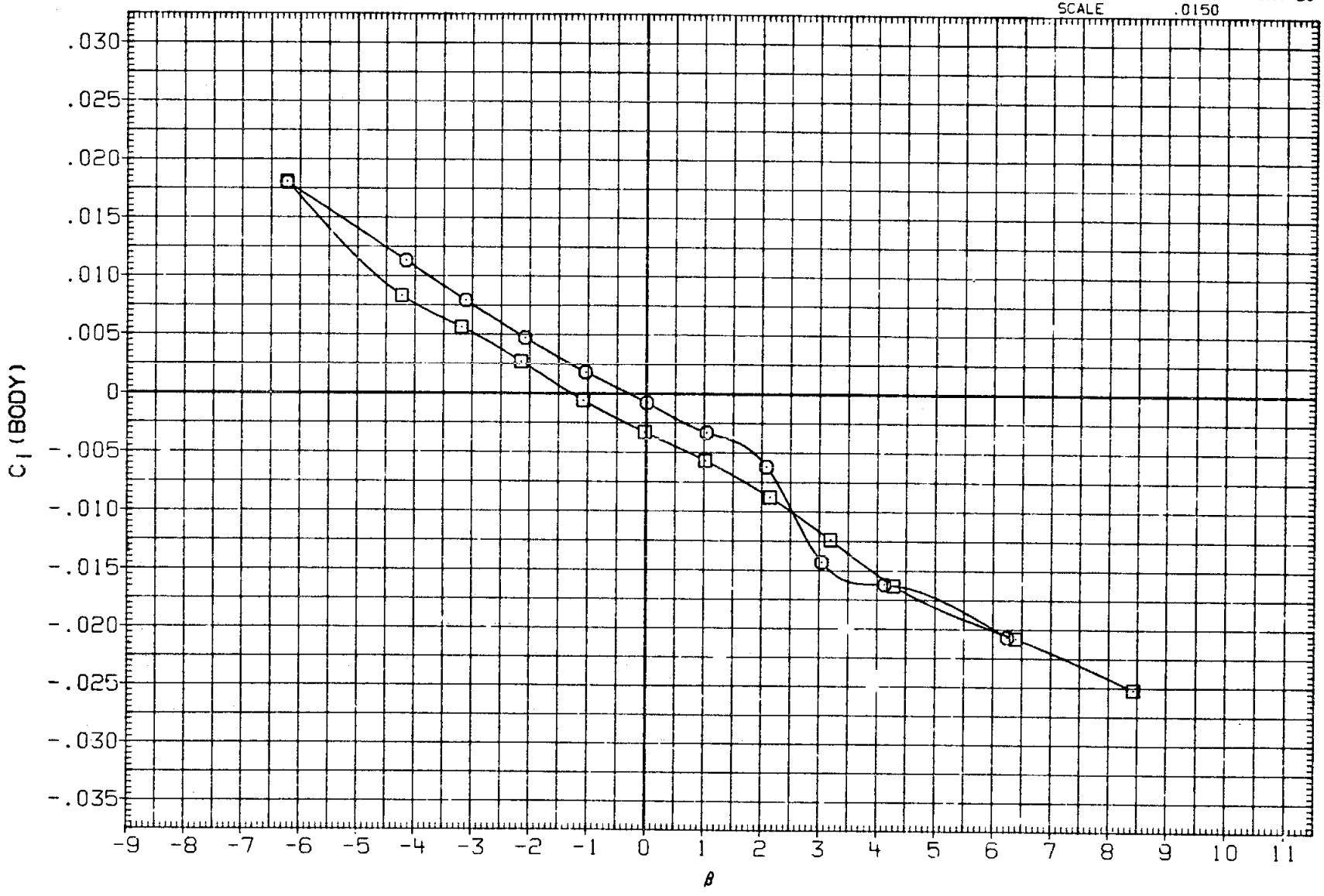

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	ELEVON
R28222	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	25.000	15.000	.000
R28223	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

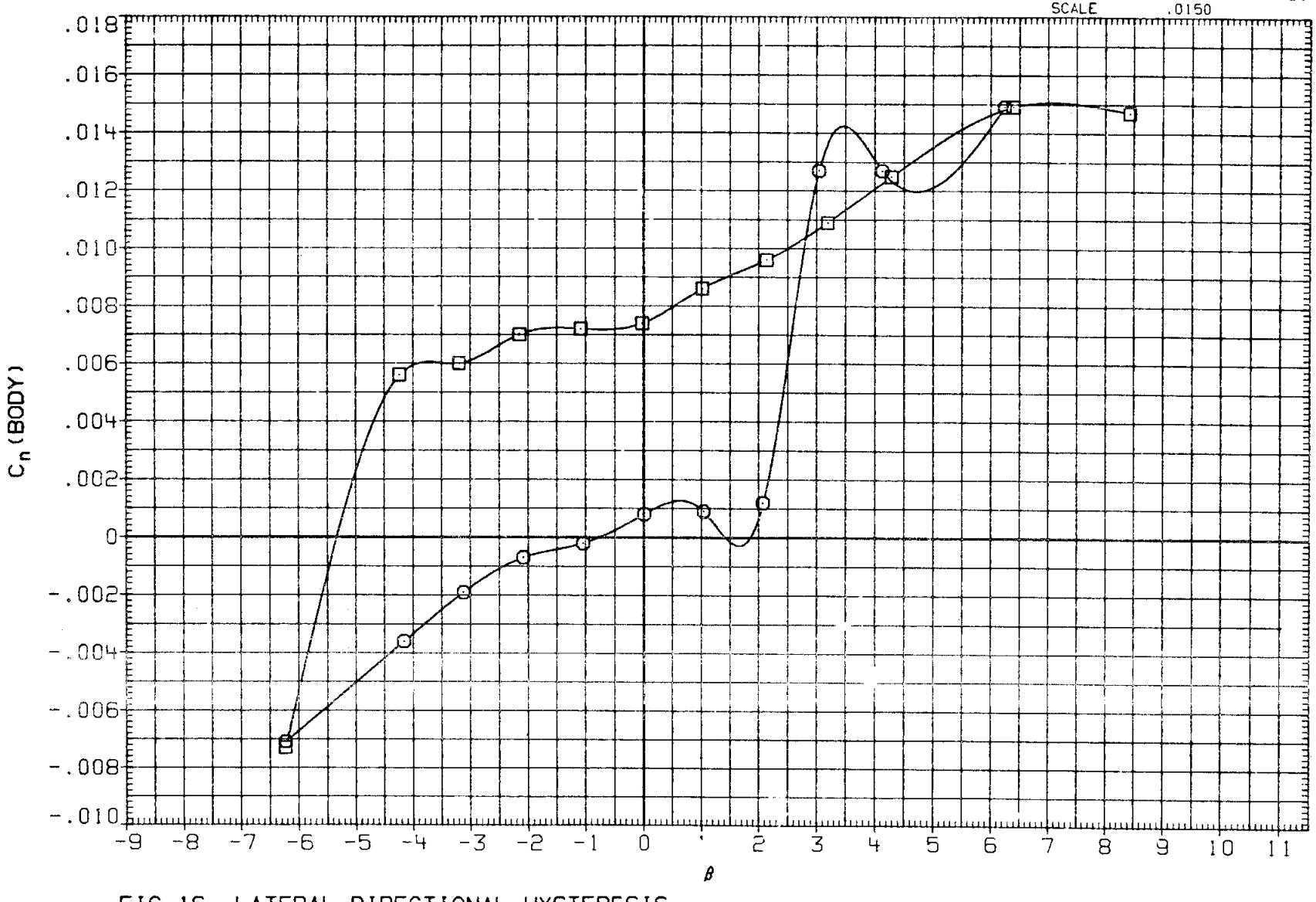

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B222	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	25.000	15.000	.000
R2B223	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

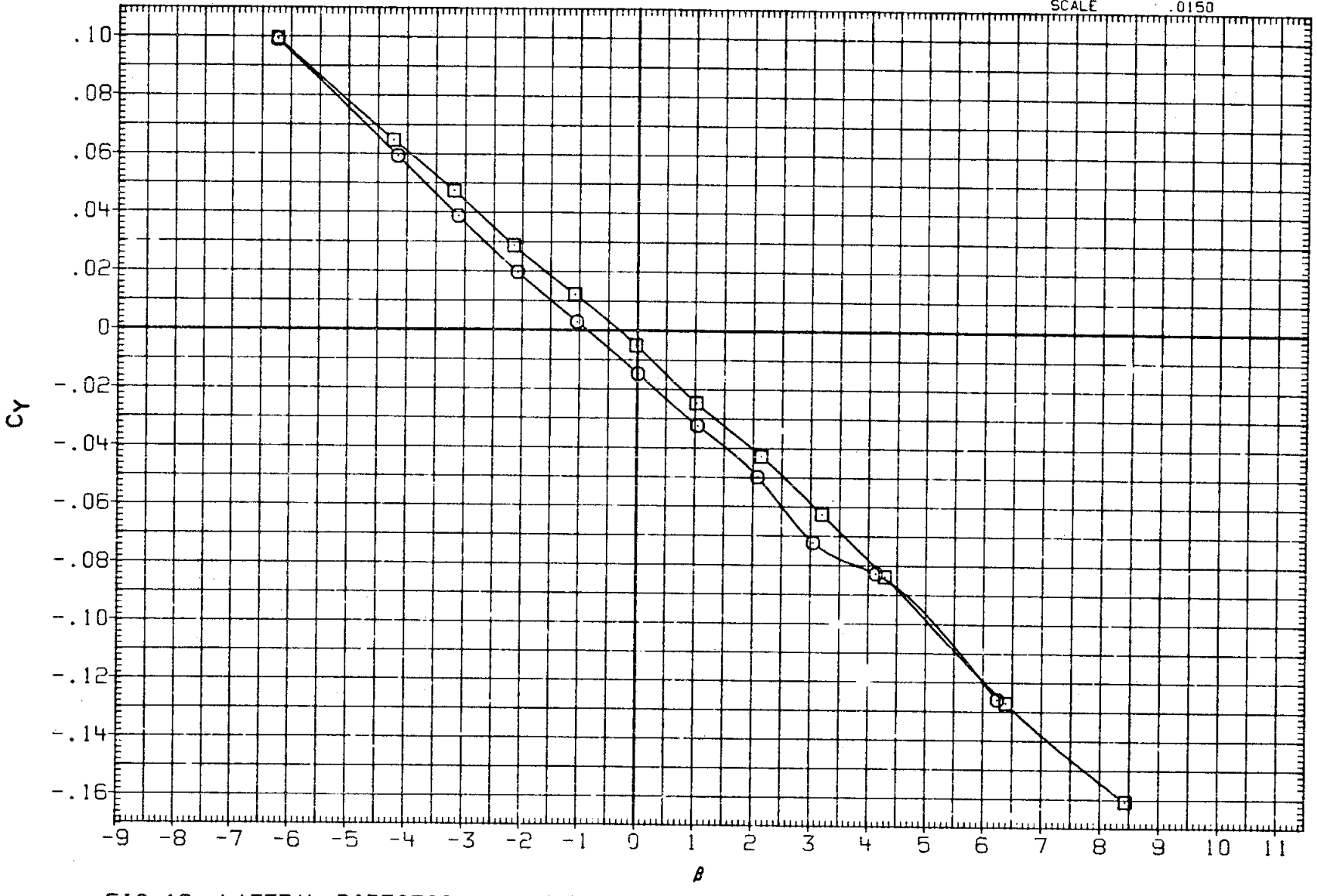

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BOT AF
R2B230	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	.000	15.000	.000
R2B231	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

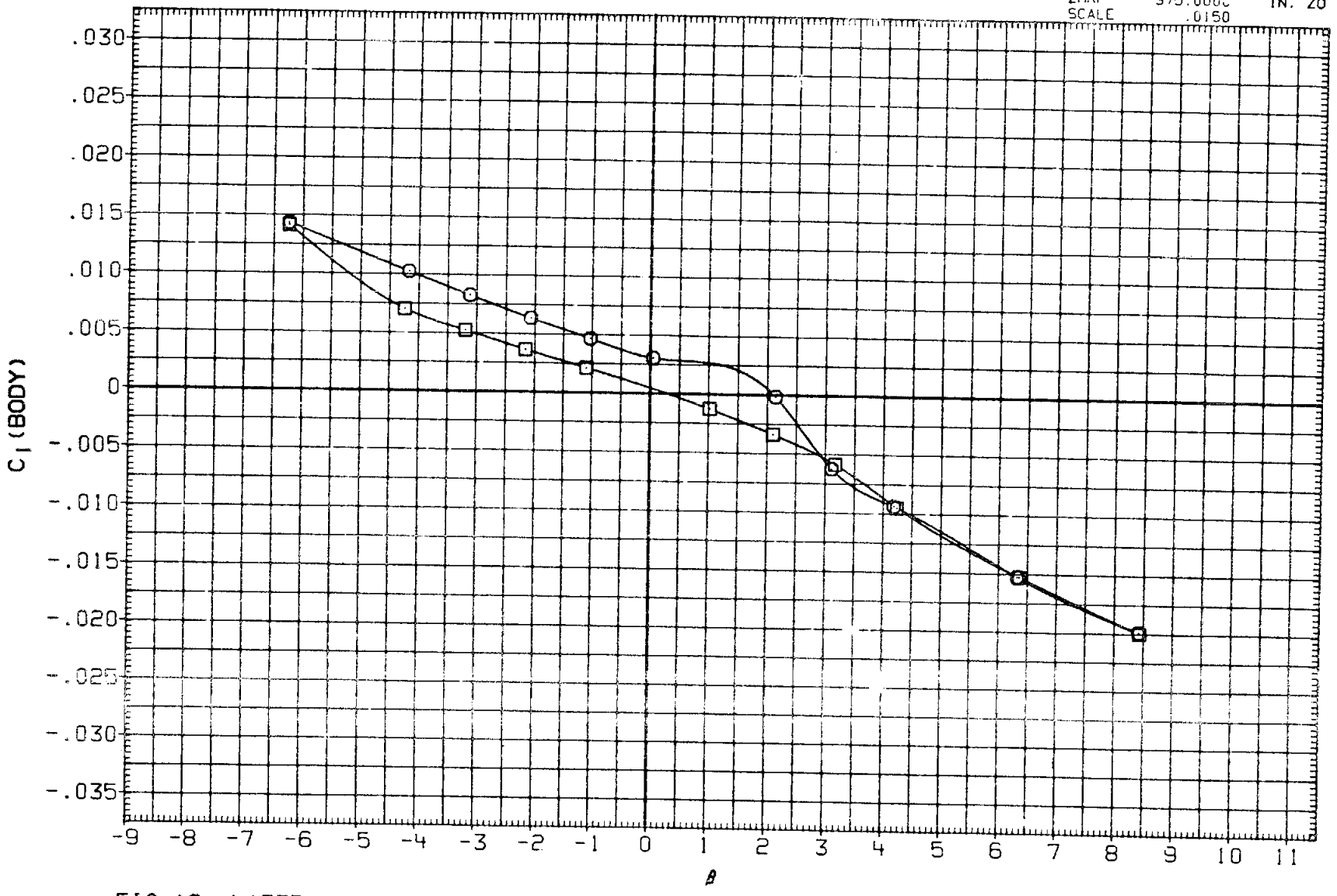

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B230	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	.000	15.000	.000
R2B231	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

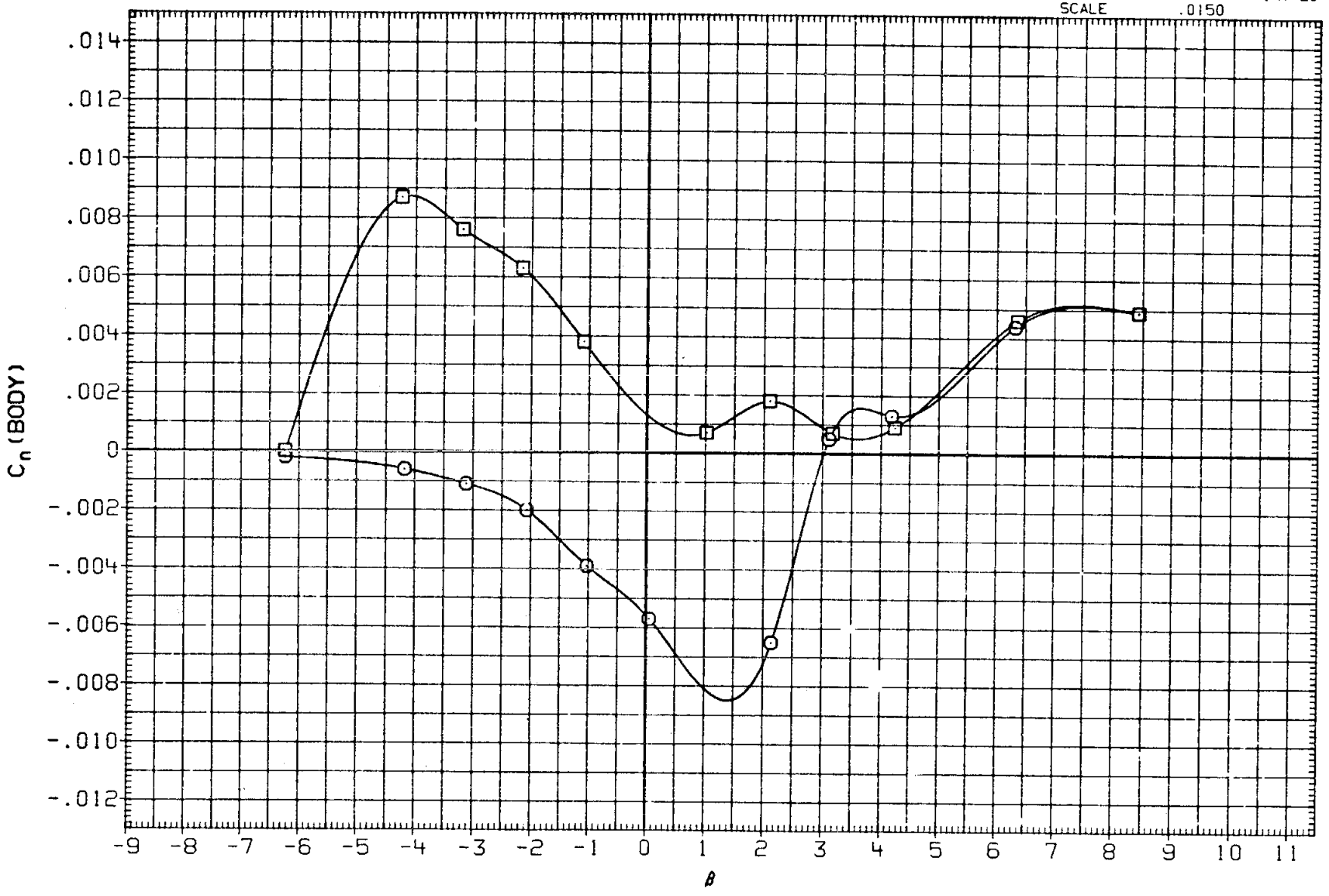

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B230	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-3.000	.000	15.000	.000
R2B231	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-3.000	.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

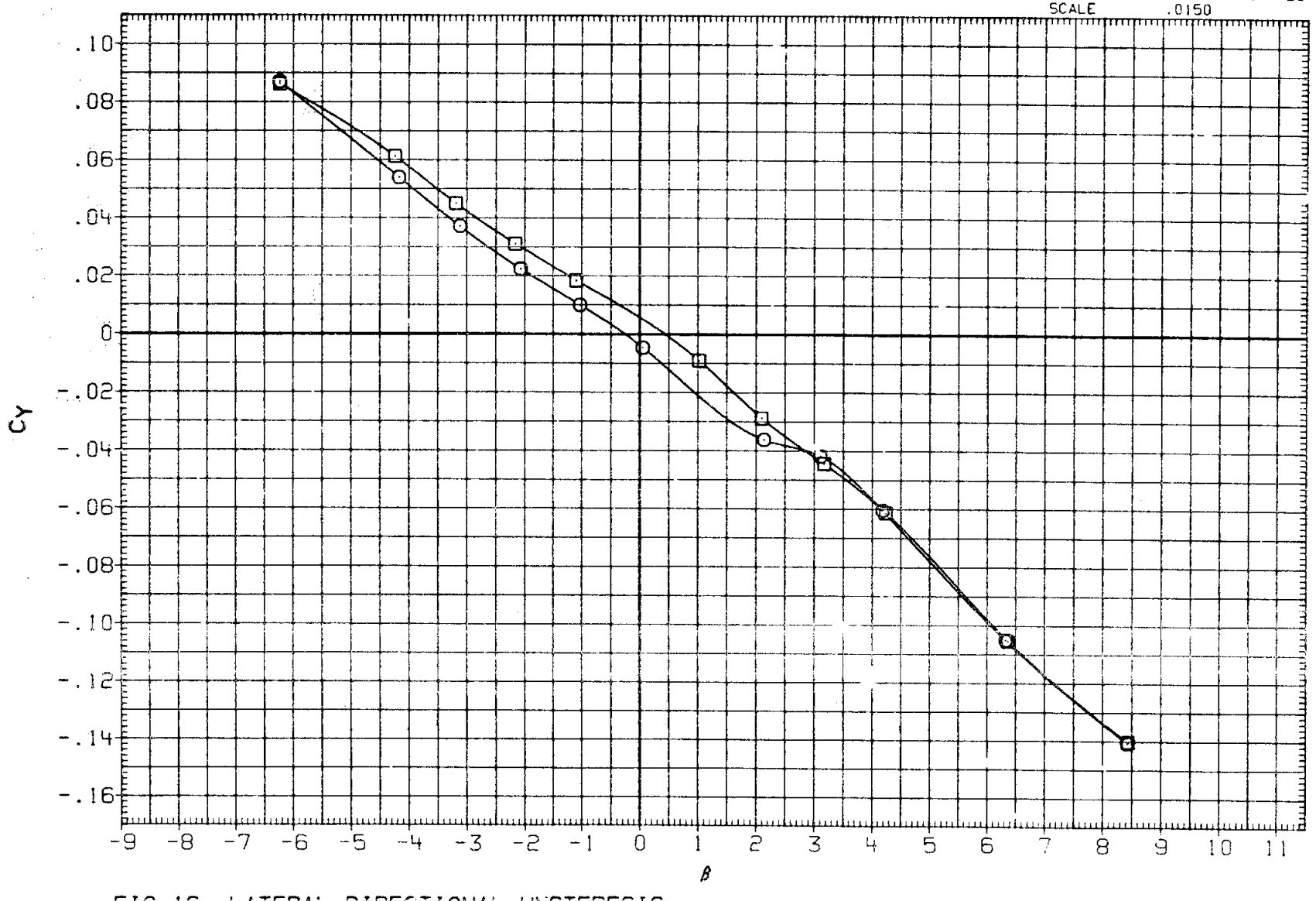

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B238	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-15.000	25.000	15.000	.000
R2B239	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-15.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

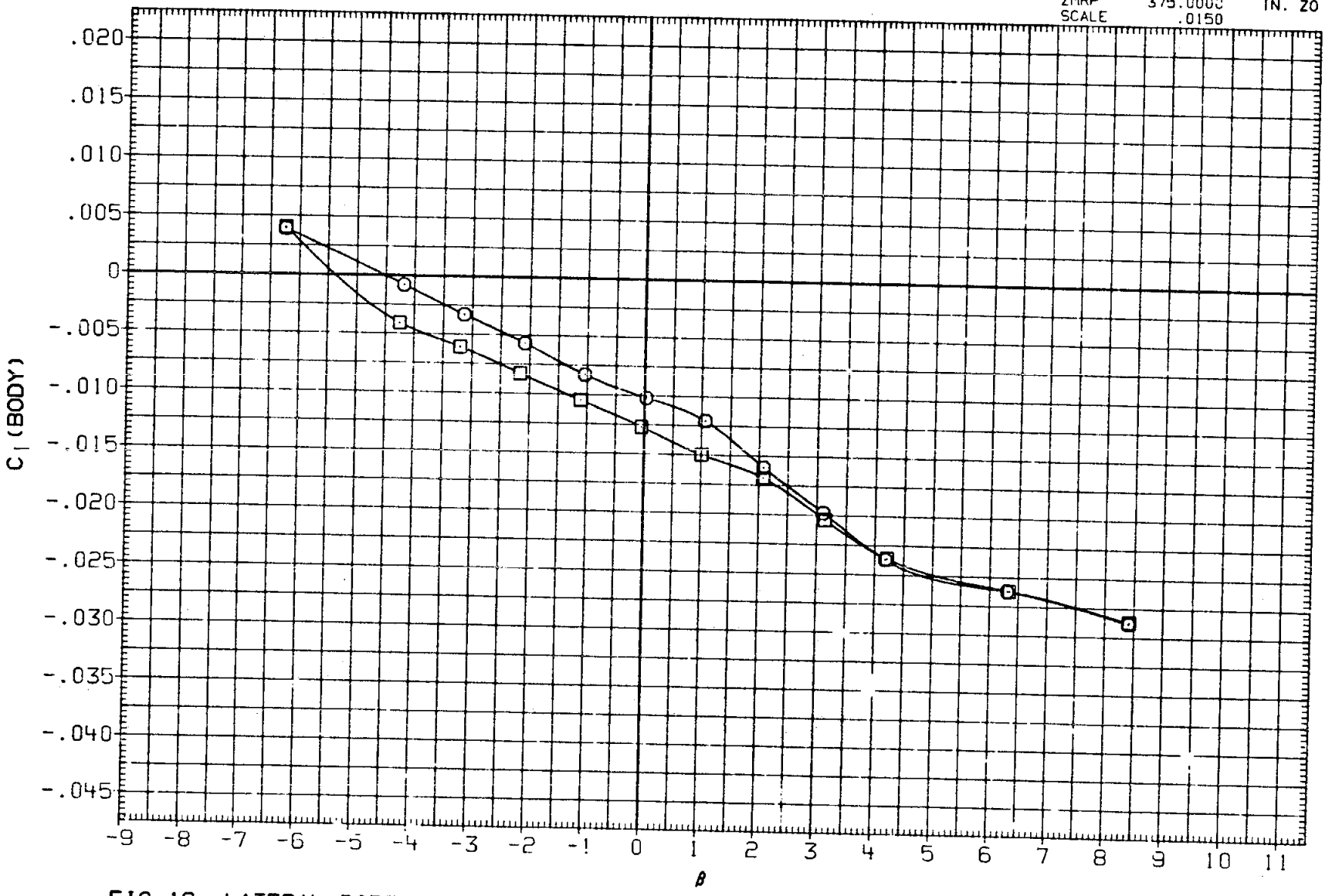

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28238	○	ARC 200-1 11(LA77) OV10)	- TO + BETA	-15.000	25.000	15.000	.000
R28239	□	ARC 200-1 11(LA77) OV10)	+ TO - BETA	-15.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

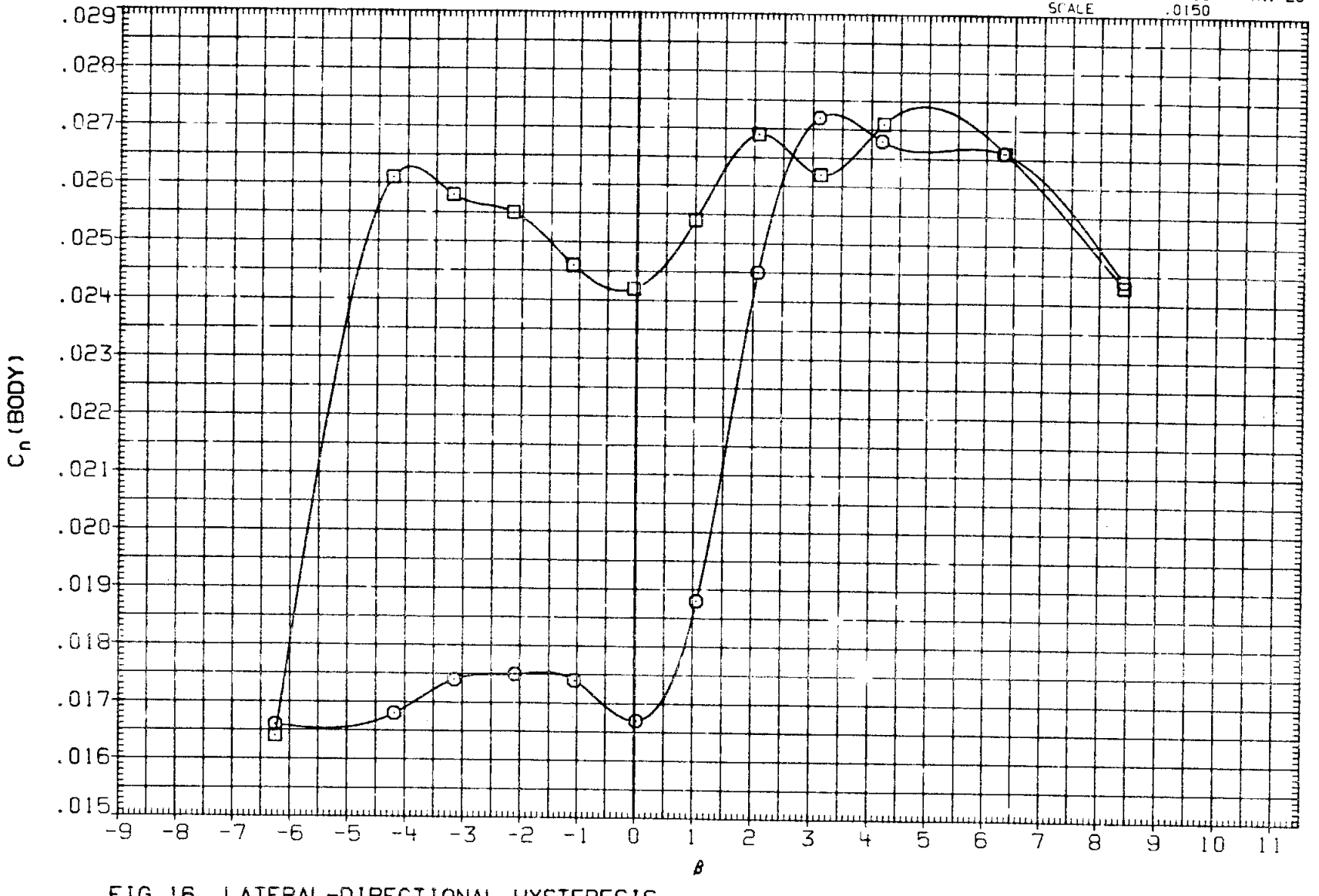

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R28238	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-15.000	25.000	15.000	.000
R28239	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-15.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

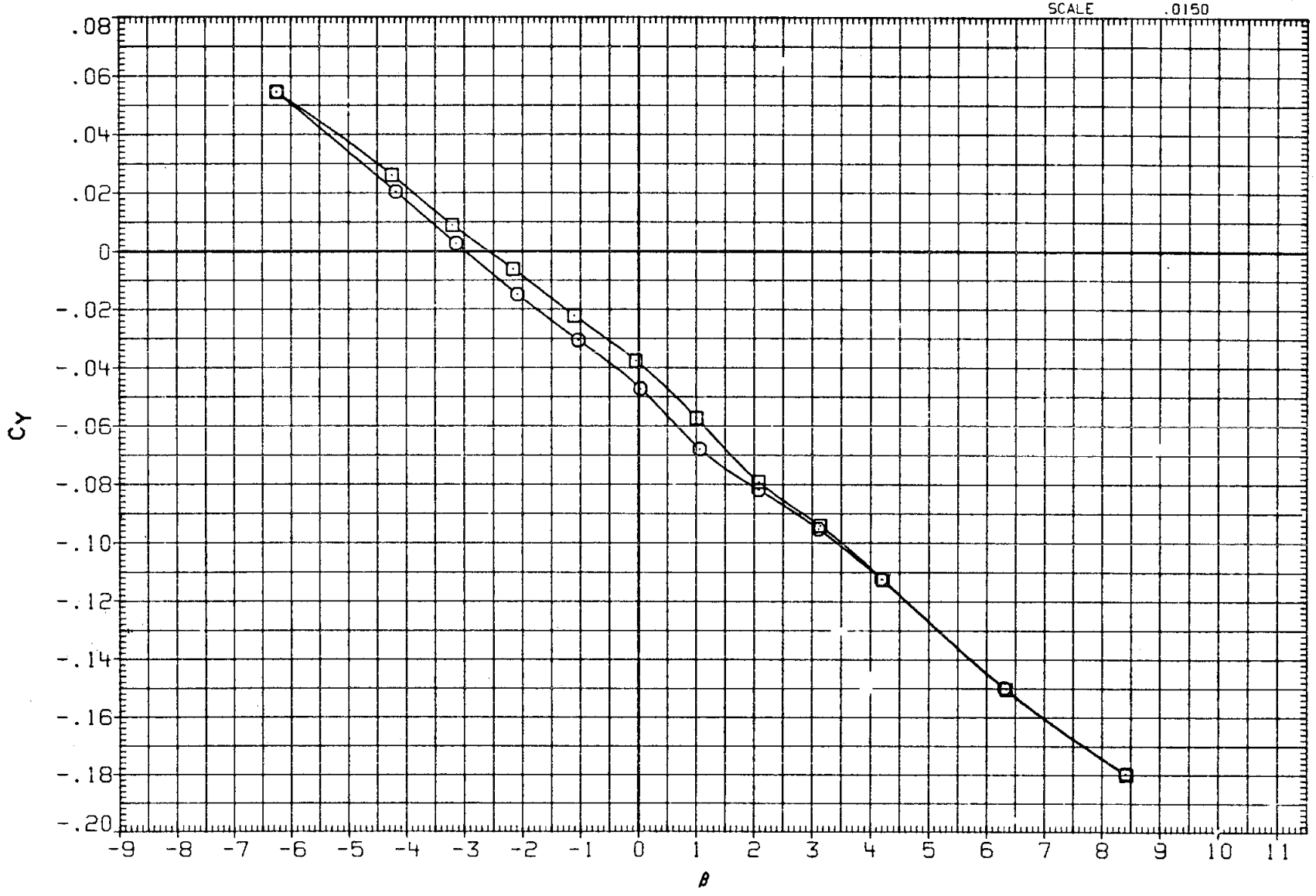

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPOBRK	ALPHA	BDFLAP
R28246	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-22.000	25.000	15.000	.000
R28247	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

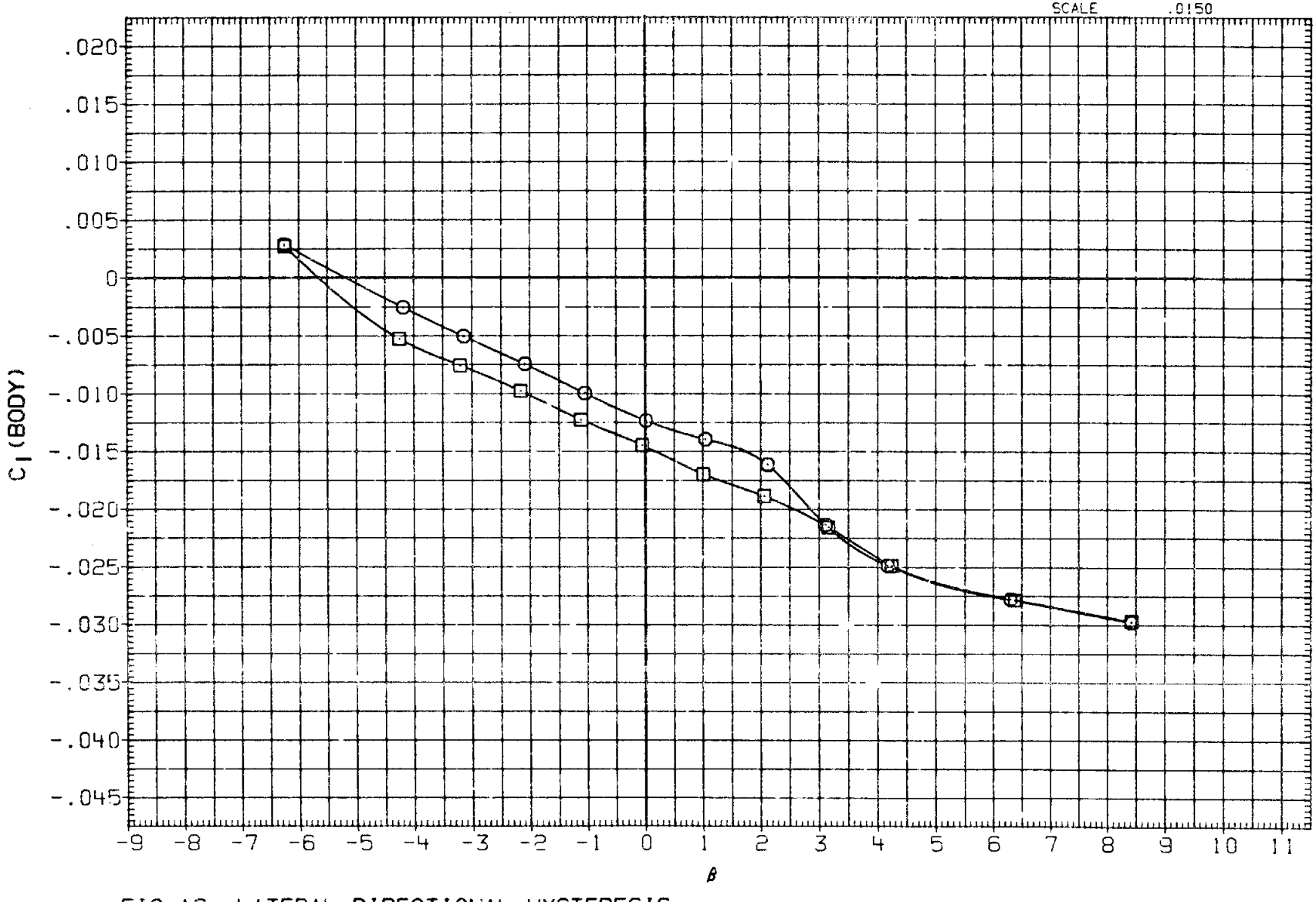

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B246	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-22.000	25.000	15.000	.000
R2B247	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

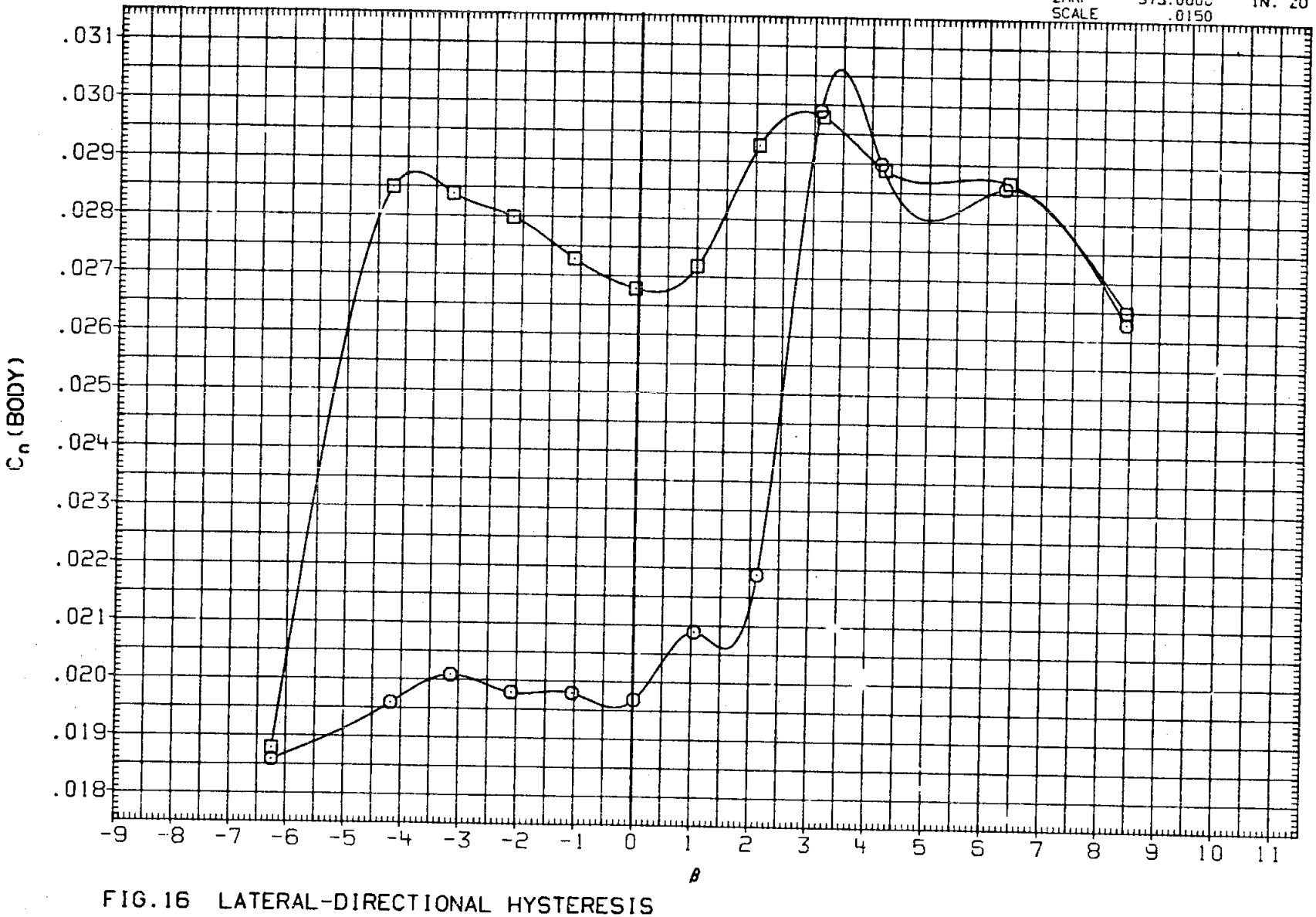

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION		RUDDER	SPDBRK	ALPHA	BDFLAP
R2B246	○	ARC 200-1 11(LA77) OV101	- TO + BETA	-22.000	25.000	15.000	.000
R2B247	□	ARC 200-1 11(LA77) OV101	+ TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2890.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

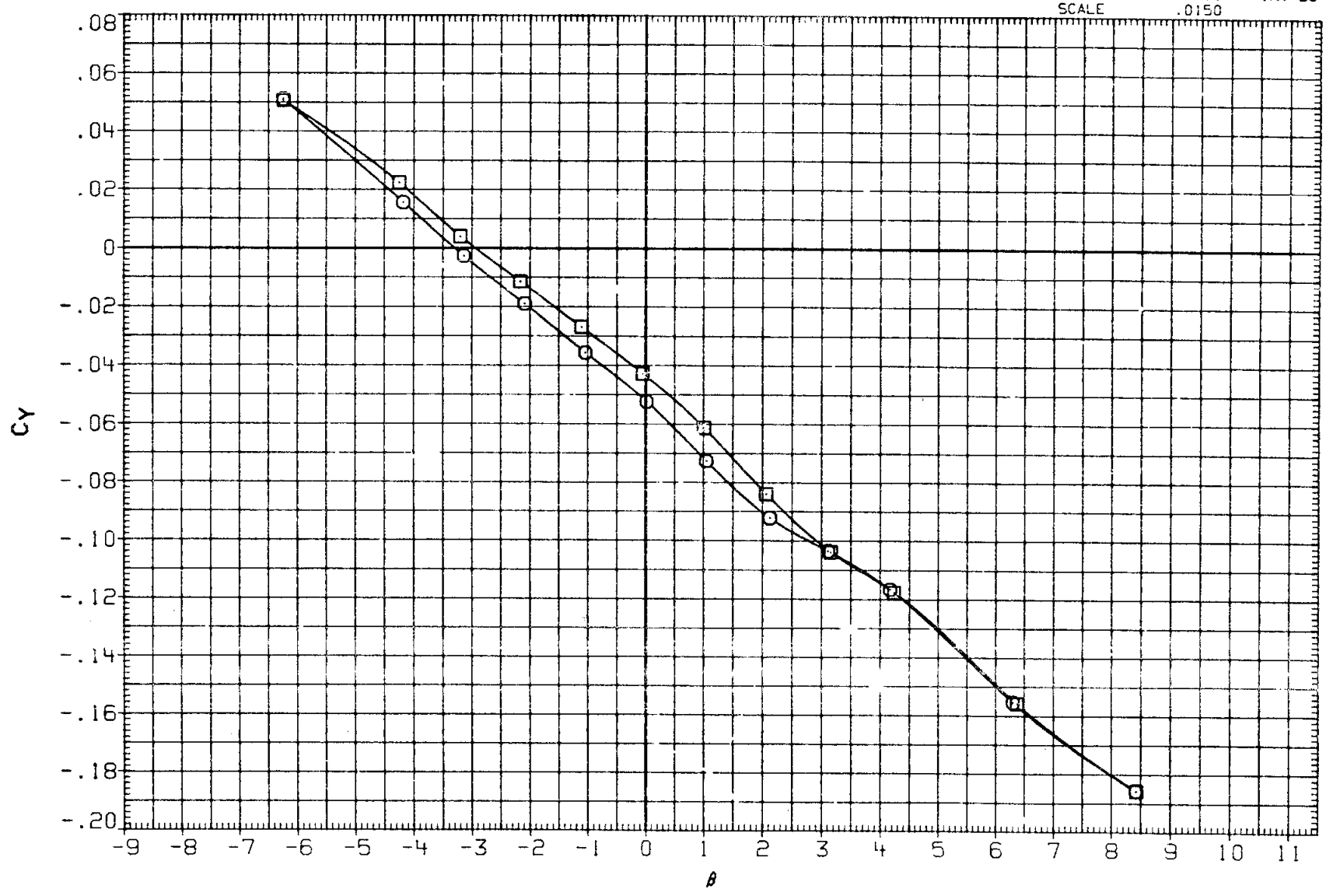

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	ALPHA	BDFLAP
R28254	○	ARC 200-1 11(LA77) OV101 OMS OFF - TO + BETA	-22.000	25.000	15.000	.000
R28255	□	ARC 200-1 11(LA77) OV101 OMS OFF + TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

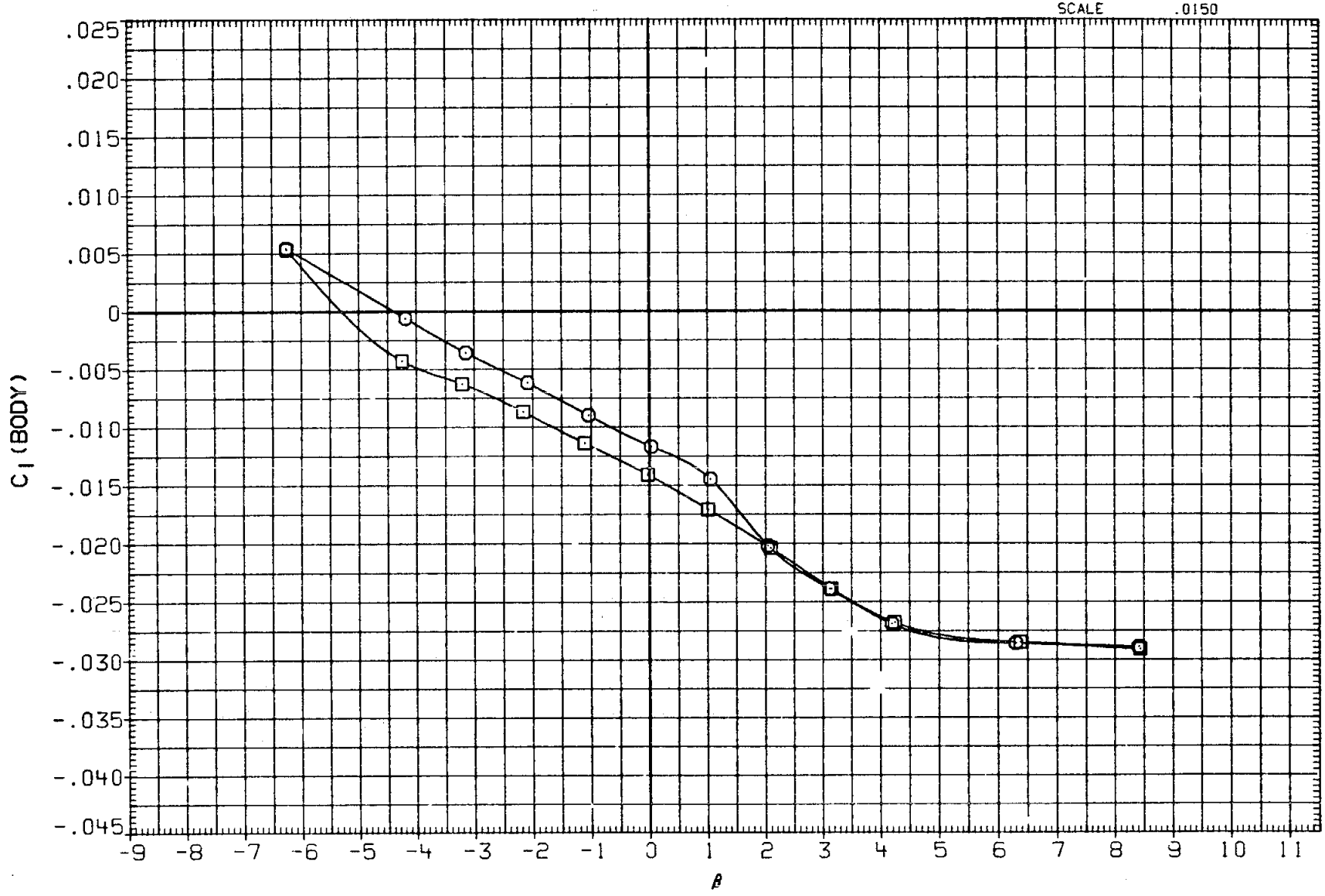

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	ALPHA	BDFLAP
R2B254	○	ARC 200-1 11(LA77) OV101 OMS OFF - TO + BETA	-22.000	25.000	15.000	.000
R2B255	□	ARC 200-1 11(LA77) OV101 OMS OFF + TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

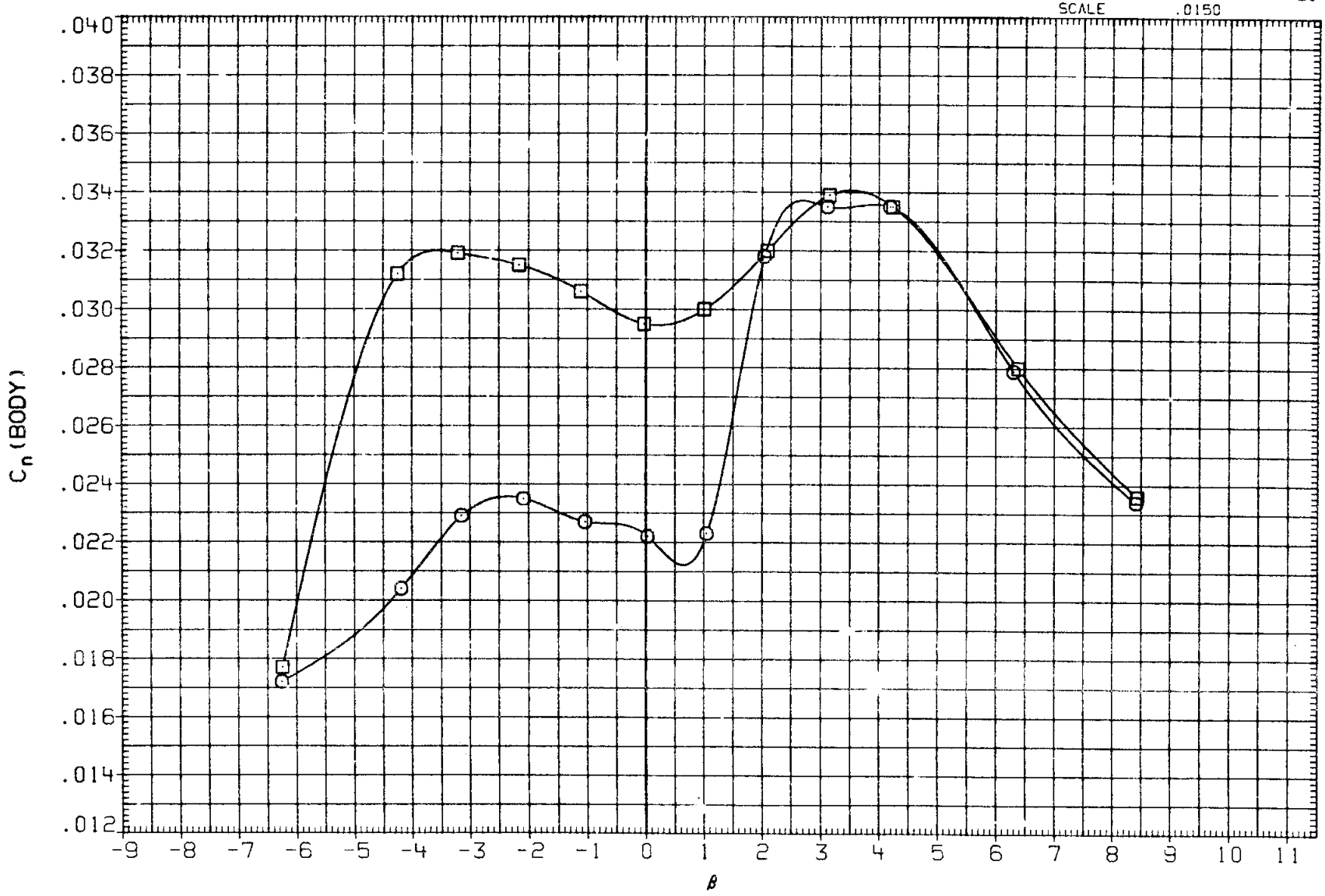

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	RUDDER	SPDBRK	ALPHA	BDFLAP
R28254	○	ARC 200-1 11(LA77) OV101 OMS OFF - TO + BETA	-22.000	25.000	15.000	.000
R28255	□	ARC 200-1 11(LA77) OV101 OMS OFF + TO - BETA	-22.000	25.000	15.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

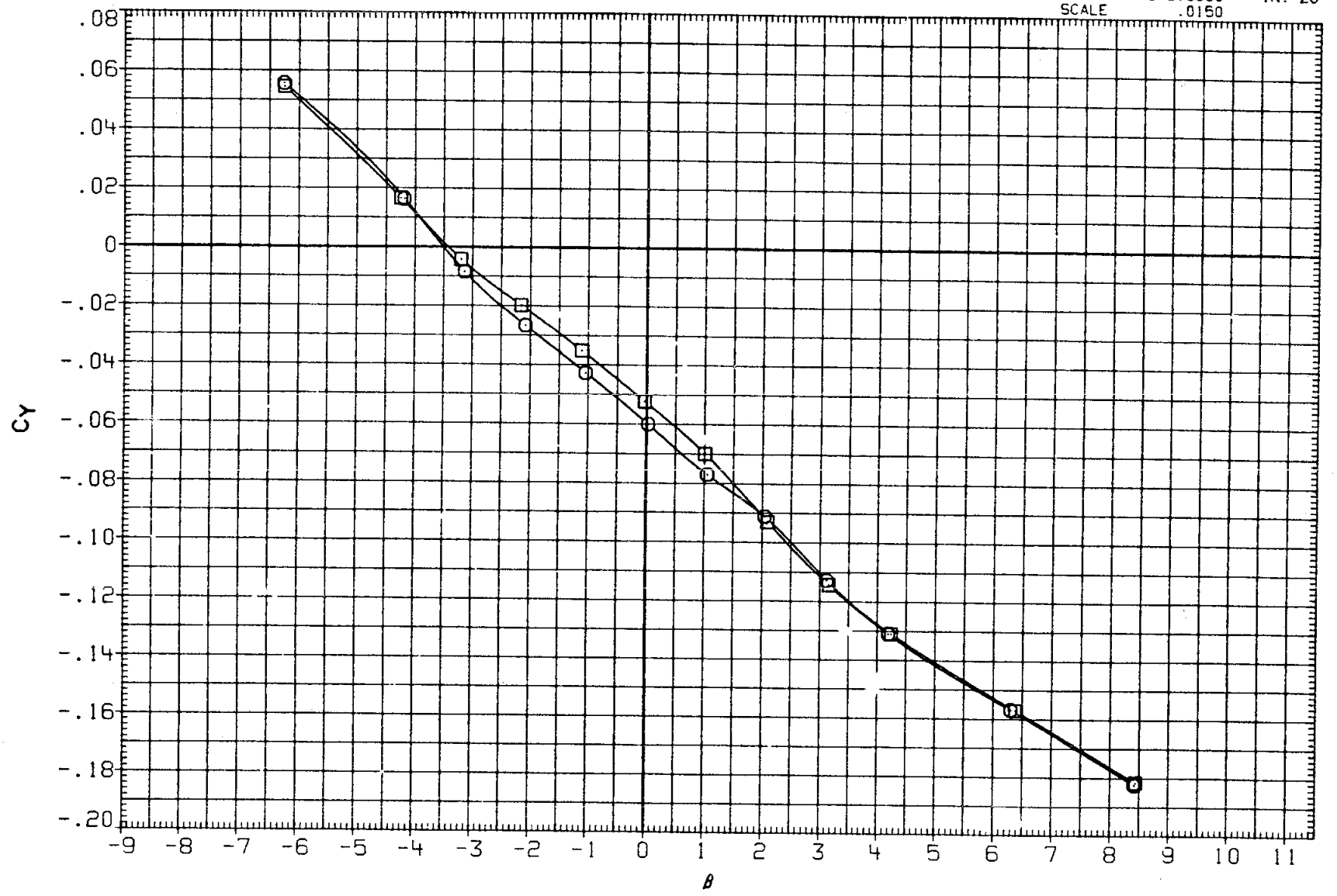

FIG.16 LATERAL-DIRECTIONAL HYSTERESIS

(A)MACH = .95