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(NASA-CR-141531) RESULTS OF INVESTIGATIONS WITH AN 0.015-SCALE MODEL (49-0) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 140A/B CONFIGURATION WITH MODIFIED OMS PODS AND ELEVONS IN THE AEDC VKF TUNNEL B (0A79) G3/18

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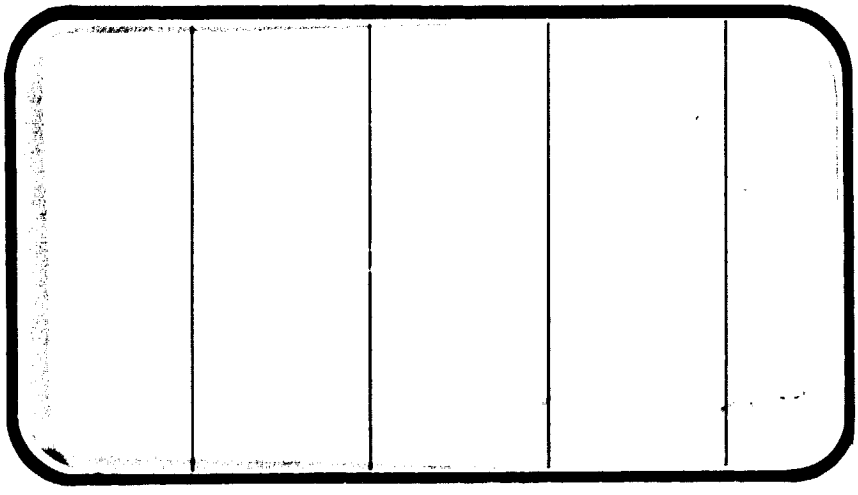

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

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RESULTS OF INVESTIGATIONS WITH AN 0.015-SCALE MODEL (49-0) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 140A/B CONFIGURATION WITH MODIFIED OMS PODS AND ELEVONS IN THE AEDC VKF TUNNEL B (OA79)

By

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Prepared under NASA Contract Number NAS9-13247

By

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	AEDC V41B-71A
NASA Series Number:	0A79
Model Number:	49-0
Test Dates:	1 August through 3 August, 1974
Occupancy Hours:	24

FACILITY COORDINATOR:

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RESULTS OF INVESTIGATIONS WITH AN 0.015-SCALE MODEL (49-0) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE VEHICLE 140A/B CONFIGURATION WITH MODIFIED OMS PODS AND ELEVONS IN THE AEDC VKF TUNNEL B (0A79)

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ABSTRACT

This report documents aerodynamic data obtained from wind tunnel tests of an 0.015-scale SSV Orbiter model of a 140A/B configuration with modified OMS pods and elevons. This test was conducted at Mach 8 in the B tunnel of the Von Karman Gas Dynamics Facility.

Force data was obtained at various control surface settings and Reynolds numbers in the angle of attack range of 15° to 45° and at angles of sideslip of -5° to +5°. Control surface variables included elevon, rudder, speed brake and body flap configurations. This test was conducted during the period August 1, 1974 through August 3, 1974.

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SCHEDULE OF COEFFICIENTS PLOTTED:

(A) CN, CLMFWD, CLMAFT, XCP/L, CA, CAF, CAB, CY, CL, CD, L/D versus ALPHA
CN versus CLMFWD, CN versus CLMAFT, CL versus CD

(B) DLTCN, DLTCMF, DLTCMA, DLTCA, DLTCAF, DLTCAB, DLTCL, DLTCD versus DLTELV

(C) DLTCN, DLTCMF, DLTCMA, DLTCA, DLTCAF, DLTCAB, DLTCL, DLTCD, DLTCY, DLTCYN
DLTCBL versus DLTARN

(D) DLTCN, DLTCMF, DLTCMA, DLTCA, DLTCAF, DLTCAB, DLTCL, DLTCD versus DLE-LI

(E) DLTCN, DLTCMF, DLTCMA, DLTCA, DLTCAF, DLTCAB, DLTCL, DLTCD versus DLE-LO

(F) DLTCN, DLTCMF, DLTCMA, DLTCA, DLTCAF, DLTCAB, DLTCL, DLTCD versus DLBDFP

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
Ab		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	CLM	pitching-moment coefficient: $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CYN	yawing-moment coefficient: $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient: $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient: $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient: $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient: $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient: $C_D - C_{D_b}$
C_Y	CY	side-force coefficient: $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient: $\frac{\text{pitching moment}}{qSl_{REF}}$
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 (Continued)
Additions To Nomenclature

Symbol	Plot Symbol	Definition
$\delta_{e_{LO}}$	ELE-LO	left outboard elevon surface deflection angle, positive deflection trailing edge down; degrees
$\delta_{e_{LI}}$	ELE-LI	left inboard elevon surface deflection angle, positive deflection trailing edge down; degrees
$\delta_{e_{RO}}$	ELE-RO	right outboard elevon surface deflection angle, positive deflection trailing edge down; degrees
$\delta_{e_{RI}}$	ELE-RI	right inboard elevon surface deflection angle, positive deflection trailing edge down; degrees.
δ_{SB}	SPDBRK	speed brake deflection angle (parallel to freestream), degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{BF}	BDFLAP	body flap deflection angle, degrees
X_{cp}/ℓ_{ref}	XCP/L	normal force center of pressure, percent reference length
C_{mFWD}	CLMFWD	pitching moment coefficient at .65 body length (forward C.G.)
$C_{m_{AFT}}$	CLMAFT	pitching moment coefficient at .675 body length (aft C.G.)
$\Delta\delta e$	DLTELV	incremental full span elevon deflection angle, degrees
ΔC_N	DLTCN	incremental normal force coefficient
$\Delta C_{m_{FWD}}$	DLTCMF	incremental pitching moment coefficient (fwd. C.G.)
$\Delta C_{m_{AFT}}$	DLTCMA	incremental pitching moment coefficient (aft C.G.)
ΔC_A	DLTCA	incremental axial force coefficient

NOMENCLATURE (Concluded)
Additions to Nomenclature

Symbol	Plot Symbol	Definition
ΔC_{A_F}	DLTCAF	incremental forebody axial force coefficient
ΔC_{A_B}	DLTCAB	incremental base axial force coefficient
ΔC_L	DLTCL	incremental lift coefficient
ΔC_D	DLTCD	incremental drag coefficient
ΔC_Y	DLTCY	incremental side force coefficient
ΔC_n	DLTCYN	incremental yawing moment coefficient
ΔC_ℓ	DLTCBL	incremental rolling moment coefficient
$\Delta\delta_{e_i}$	DLE-LI	incremental inboard elevon deflection angle, degrees
$\Delta\delta_{BF}$	DLBDFP	incremental body flap deflection angle, degrees
$\Delta\delta_{e_o}$	DLE-LO	incremental outboard elevon deflection angle, degrees
$\Delta\delta_a$	DLTARN	incremental aileron deflection angle, degrees

CONFIGURATIONS INVESTIGATED

Effects of OMS pod configurations and elevon gap (between inboard and outboard panels) were investigated. The model was tested with OMS pods off, with the baseline OMS pods, and new OMS pods. Tests were conducted with both a 6-inch (full scale) elevon gap and with a sealed elevon gap.

$$O_1 = B_{26}\ C_9\ E_{43}\ F_8\ M_{16}\ N_{28}\ R_5\ V_8\ W_{116}$$

$$O_2 = B_{26}\ C_9\ E_{43}\ F_8\ N_{28}\ R_5\ V_8\ W_{116}$$

$$O_3 = B_{26}\ C_9\ E_{43}\ F_8\ M_7\ N_{28}\ R_5\ V_8\ W_{116}$$

Component	Definition
B_{26}	fuselage per Rockwell lines VL70-000143B, -000200, -000205, -006089, -000145, -000140A and -000140B (model drawing SS-A00147)
C_9	canopy per Rockwell lines VL70-000143B (model drawing SS-A00147)
E_{43}	slotted version (6-inch) of E_{26} elevons per Rockwell lines VL70-000200, -006089, -006092 (model drawing SS-A00148)
F_8	body flap per Rockwell lines VL70-000140A, 000145 (model drawing SS-A00147)
M_7	OMS/RCS pods per Rockwell lines VL70-000140A, -000145 (model drawing SS-A00147)
M_{16}	OMS/RCS pods per Rockwell lines VL70-008410, -000140C (model drawing SS-A00147)
N_{28}	OMS engine nozzle per Rockwell lines VL70-000140A (model drawing SS-A00147)

CONFIGURATIONS INVESTIGATED (Concluded)

Component	Definition
R_5	rudder per Rockwell lines VL70-000146A, -000095, -000139 (model drawing SS-A00148)
V_8	vertical tail per Rockwell lines VL70-000146A (model drawing SS-A00148)
W_{116}	wing per Rockwell lines VL70-000140B, -000200 (model drawing SS-A00148)

INSTRUMENTATION

Force instrumentation consisted of a six component internal force balance mounted in the Orbiter sting cavity.

Pressure instrumentation consisted of a base pressure rake and one sting cavity pressure which were routed along the sting to externally mounted transducers for pressure measurement.

Three thermocouples were mounted in the Orbiter. The first thermocouple was located in the lower wing at outer mold line X_o = 17.83 inch m.s., Y_o = 4.215 inch m.s.; the second at the lower fuselage centerline at outer mold line X_o = 17.83 inch m.s., Y_o = 0.000 inch m.s. and the third thermocouple at the lower fuselage centerline at outer mold line X_o = 6.00 inch m.s., Y_o = 0.00 inch m.s.

These thermocouples were used to moniter the surface temperature on the model.

TEST FACILITY DESCRIPTION

The Arnold Engineering Development Center (AEDC) is an Air Force Facility located in Tullahoma, Tennessee. Tunnel B is a continuous, closed circuit, variable density wind tunnel with an axisymmetric contoured nozzle and a 50-inch diameter test section. The tunnel can be operated at a nominal Mach number of 6 or 8 at stagnation pressures from 20 to 300 and 50 to 900 psia, respectively, and at a stagnation temperature of up to 1350°R. The model may be injected into the tunnel for a test run and then retracted for model cooling or model changes without interrupting the tunnel flow.

DATA REDUCTION

The aerodynamic forces and moments recorded by the internal strain gage balance were reduced to coefficient form in the body and stability axis systems utilizing the following reference dimensions:

Symbol		Model Scale	Full Scale
A_B	Total base area excluding sting cavity, ft^2	0.06080	270.2
A_{SC}	sting cavity area, ft^2	0.03409	151.5
S	wing planform area, ft^2	0.60525	2690.0
ℓ_b	body reference length, in	19.3545	1290.3
$\bar{c}_{(\ell_{ref})}$	wing M.A.C., in	7.1222	474.81
b_{ref}	wing span, in	14.0502	936.68

Moments are referenced about model station 16.150 (fuselage station 1076.68) on the fuselage at model water line 5.625 (full scale water line 375)

Model base and cavity pressures were measured during the test and have been used to correct the data for model base effects. Location and areas for these pressures were as shown in figure 2b.

Axial force coefficients were determined as follows:

$$C_A = C_{AU} - C_{A_{SC}}$$

$$C_{A_F} = C_{AU} - C_{A_B}$$

DATA REDUCTION (Concluded)

where:

C_{AU} = axial force coefficient unadjusted for base or sting cavity pressures

$C_{A_{SC}}$ = sting cavity axial force coefficient

C_{A_B} = base axial force coefficient

TABLE I.

TEST : 0A79 DATE : 8/16/74

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Rankine)
8	3.54 x 10^6/ft	3.66	1329
8	1.84	1.83	1287
8	0.5	0.5	1256

BALANCE UTILIZED: AEDC VKF 4.06-Y-36-058

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	500 lb		
SF	250 lb		
AF	300 lb		
PM	1850 in-lb		
RM	100 in-lb		
YM	925 in-lb		

COMMENTS:

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TABLE II.

TEST: 0A79 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: 8-13-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_{eLO}	δ_{eLI}	δ_{eRI}	δ_{eRO}	δ_{BF}	δ_{SB}	δ_R	Re/ft			NO. OF RUNS	MACH NUMBERS $\mathcal{E}^1$	$\mathcal{E}^2$	$\mathcal{E}^3$	
RTW001	[illegible]	A	0	0	0	0	0	0	55	0	3.53				106			
002		20	B	0	0	0	0	0	55	0					107* 110			
003		20	B	0	0	0	0	0	55	0					108,109* 111			
004		30	B	0	0	0	0	0	55	-10					112			
005		30	B	0	0	0	0	0	55	-10					113			
006	[illegible]	A	0	0	0	0	0	0	55	0					114			
007		20	B	0	0	0	0	0	55	0					115			
008		30	B	0	0	0	0	0	55	0					116			
009	[illegible]	A	0	0	0	0	0	0	55	0					[illegible]			
010		30	B	0	0	0	0	0	55	0					118			
011		20	B	0	0	0	0	0	55	0					119			
012	[illegible]	A	0	0	0	0	0	-11.7	55	0					120			
013		A	0	0	0	0	0	+16.3	55	0					121			
014		A	0	0	0	-20	-20	0	55	0					122			
015		A	0	-20	-20	-20	-20	0	55	0					123			
016		0	B	-20	-20	-20	-20	0	55	0					124			
017		A	0	+10	+10	+10	+10	0	55	0					125			
RTW018		0	B	+10	+10	+10	+10	0	55	0					126			

CN CAF CLMF CY CYN CBL CAB XCP/L CLF CDF MACH ALPHA

COEFFICIENTS

α or β SCHEDULES:
A: +15° → 45°
B: -5 → -5 [illegible] increments

$\mathcal{E}^1$: Re/ft × 10^{-6} = 3.53
$\mathcal{E}^2$: Re/ft × 10^{-6} = [illegible].56
$\mathcal{E}^3$: Re/ft × 10^{6} = 0.50

* [illegible] check

TABLE II. - Continued.

TEST: OA 79 — DATA SET RUN NUMBER COLLATION SUMMARY — DATE: 8-13-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_{EL_O}	δ_{EL_I}	δ_{ER_I}	δ_{ER_O}	δ_{BF}	δ_{3B}	δ_R	Re/ft	NO. OF RUNS	MACH NUMBERS M^1	M^2	M^3
RTV 019	[illegible]	A	0	+20	+20	+20	+20	0	55	0	3.53		127		
020		A	0	+20	+20	+20	+20	0	55	0			*128		
021		A	0	+20	+20	+20	+21	+16.3	55	0			129		
022				+20	+20	0	0	0	55	0			130		
023				-10	-10	-10	-10	0	55	0			131		
024				-10	-10	+10	+10	0	55	0			132		
025				-40	-40	-40	-40	0	55	0			133		
026				-10	-40	-40	-10	0	55	0			134		
027				0	-40	-40	0	0	55	0			135		
028				0	+10	+10	0	0	55	0			136		
029				0	-10	-10	0	0	55	0			137		
030				0	-20	-20	0	0	55	0			138		
031				-5	-20	-20	-5	0	55	0			139		
032				-5	-20	-20	-5	0	55	0			140		
033				+10	0	0	+10	0	55	0			141		
034				-10	0	0	-10	0	55	0			142		
035		30	B	-10	0	0	-10	0	55	0			143		
RTN 036		A	0	+10	0	0	-10	0	55	0			144		

CN CAF CLMF CY CYN CBL CAB XCP/L CLF CDF MACH ALPHA

α & β SCHEDULES: α_A: +15° → 45°; β_B: -5 → +5

* Repeat of 127

** Instrumentation Problems (No Data)

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TABLE II. - Continued.

TEST: OA79 DATA SET RUN NUMBER COLLATION SUMMARY DATE: 8-13-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δeLO	δeLI	δeRI	δeRO	δBF	δSB	δR	Re/ft			NO. OF RUNS	MACH NUMBERS 8'	82	83		TEST RUN NUMBERS
RTW037	$B_{26}C_9E_{43}F_8M_{16}N_{28}R_5V_8W_{116}$	A	0	0	-10	-10	-20	0	55	0	3.53				145				
038		A	0	-20	0	0	-20	0	55	0	↓				146				
039		0	B	-20	0	0	-20	0	55	0	↓				*147	(HEAT	SOAK)		
040		A	0	0	0	0	0	0	55	0	1.86					148			
041		A	0	0	0	0	0	0	55	0	↓					149	(Pitch	Pause)	
042		A	0	-20	-20	-20	-20	0	55	0	3.53				157	<SEA	LED	6" GAP)	
043		A	0	0	0	0	0	0	55	0	↓				158		↓		
044		A	0	0	0	0	0	0	25	0	↓				159				
045		A	0	0	0	0	0	0	85	0	↓				160				
046		A	0	-30	-30	-30	-30	0	55	0	↓				161				
047		A	0	-10	+10	-10	+10	+16.3	55	0	↓				162				
048		A	0	0	0	0	0	-11.7	55	0	1.86					150			
049		A	0	0	0	0	0	+16.3	55	0	↓					151			
050		A	0	+10	+10	+10	+10	-16.3	55	0	↓					152			
051		A	0	+10	+10	+10	-10	0	55	0	↓					153			
052		A	0	+20	+20	+20	+20	0	55	0	↓					154			
053		A	0	+20	+20	+20	+20	+16.3	55	0	↓					155			
RTW054	$B_{26}C_9E_{43}F_8M_{16}N_{28}R_5V_8W_{116}$	A	0	-40	-40	-40	-40	0	55	0	↓					156			

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

CN CAF CLMF CY CYN CBL CAB XCP/L CLF CDF MACH ALPHA

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α or β SCHEDULES

TABLE II. - Continued.

TEST: 0A79 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 8-13-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_{LO}	δ_{LI}	δ_{RI}	δ_{RO}	δ_{SPC}	δ_{SB}	δ_R	Re/ft	NO. OF RUNS	MACH NUMBERS B^1	B^2	B^3
RTW055	[illegible]	A	0	+10	+10	+10	+10	+16.3	55	0	0.50				163
056		A	0	+10	+10	+10	+10	0	55	0					164
057				0	0	0	0	0	55	0					165
058				0	0	0	0	+16.3	55	0					166
059				0	0	0	0	-11.7	55	0					167
060				+20	+20	+20	+20	+16.3	55	0					168
061				+20	+20	+20	+20	0	55	0					169
062				-40	-40	-40	-40	0	55	0					170
063				0	-40	-40	-20	0	55	0	3.53		171		
065				0	0	0	-20	0	55	0	3.53		172		
066				0	-20	-20	-10	0	55	0			173		
067				-10	-20	-20	-30	0	55	0			174		
068				-10	-10	-30	-30	0	55	0			175		
069				+10	-10	-10	-10	0	55	0			176		
070				-5	-5	+5	+5	0	55	0			177		
071				0	0	0	0	0	25	0			178		
RTW072		20	B	0	0	0	0	0	25	0			179		

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF	MACH	ALPHA	

COEFFICIENTS — IDVAR 11 — IDVAR 12 — NDV

α & β SCHEDULES

α: $+5° \rightarrow 45°$

β: $-5° \rightarrow +5°$

TABLE II. - Concluded.

TEST: OA79 — DATA SET RUN NUMBER COLLATION SUMMARY — **DATE:** 8-13-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δeLO	δeLI	δeRI	δeRO	δBF	δSB	δR	Refl	NO. OF RUNS	MACH NUMBERS 81	82	83
RTW073	[illegible]	30	B	0	0	0	0	0	25	0	3.53		180		
074	↓	40	B	0	0	0	0	0	25	0	↓		181		
075	↓	A	0	0	0	0	0	0	25	-20	↓		182		
076	↓	20	B	0	0	0	0	0	25	-20	↓		183		
RTW077	↓	30	B	0	0	0	0	0	25	-20	↓		184		

TEST RUN NUMBERS

COEFFICIENTS: CN, CAF, CLMF, CY, CYN, CBL, CAB, XCP/L, CLF, CDF, MACH, ALPHA (IDVAR 1, IDVAR 2)

α or β SCHEDULES: αA: +15° → +45°; βB: -5 → +5°

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT BODY - B_{36}

GENERAL DESCRIPTION Configuration 140A/B Orbiter Fuselage

NOTE: B_{36} is identical to B_{34} except underside of fuselage has been refaired to accept W_{116}.

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

DRAWING NUMBER VL70-0001438, -000200, 000205, -006089, -000145, 000140A, 0001408

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	19.354
* 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		

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

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 VL70-0021438

DIMENSIONS :	FULL SCALE	MODEL SCALE
*Length (X_o = 434.643 to 578)	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. - MODEL DIMENSIONAL DATA - Continued.

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

GENERAL DESCRIPTION: Configuration 140A/B Orbiter elevon.

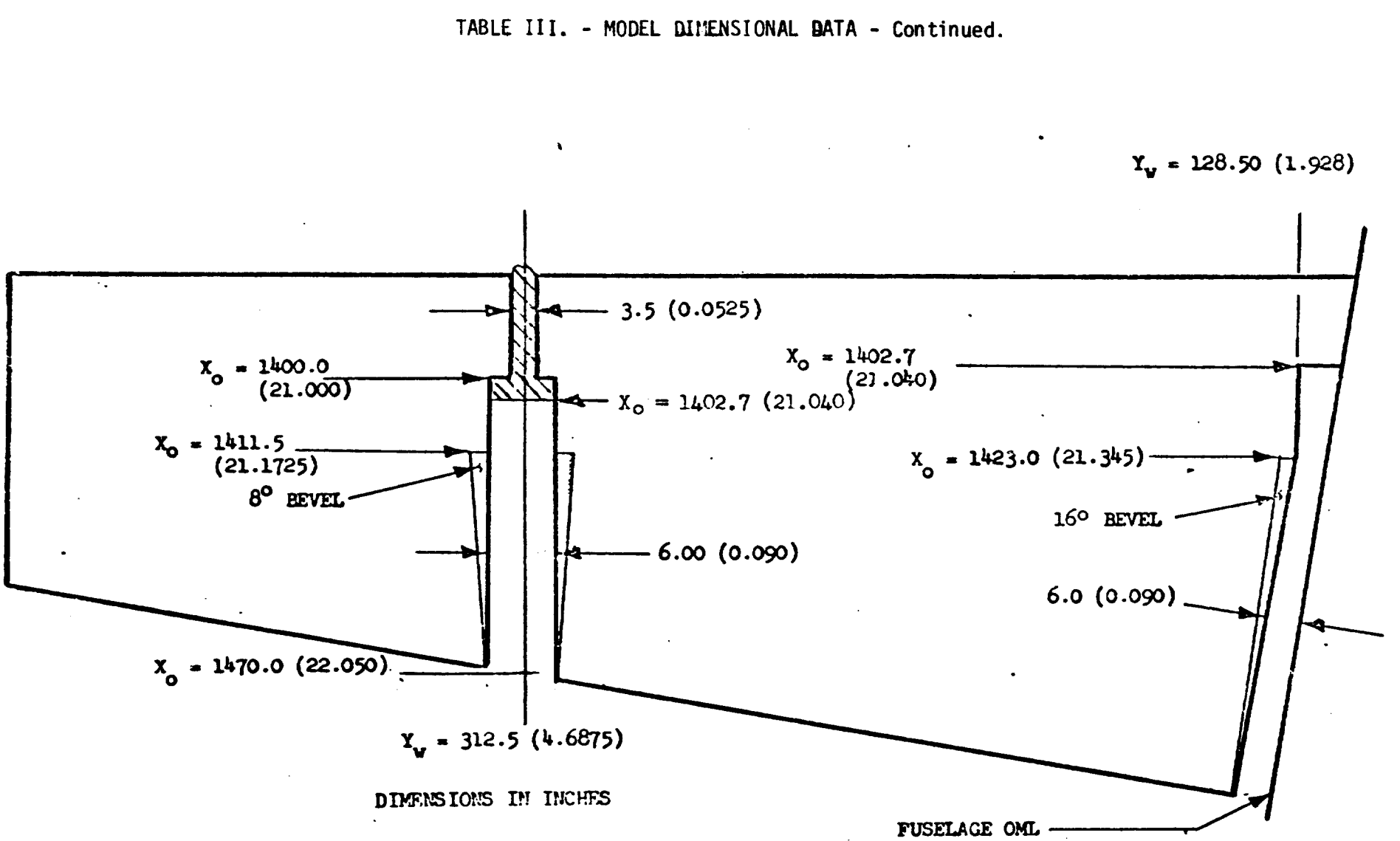
NOTE: E_{43} is a slotted version of E_{26}. Data are for one side.

MODEL SCALE: 0.015

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 In.	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 (Product of Area and $\bar{c}$)-Ft^3	1587.25	0.00536
Mean Aerodynamic Chord ($\bar{c}$), in.	90.7	1.3605

TABLE III. - MODEL DIMENSIONAL DATA - Continued.



Slotted Elevon - E_{43} (6-inch Gap)

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F_8

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

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

DRAWING NUMBER : VL7-000140A, VL70-000145

DIMENSIONS :		FULL SCALE	MODEL SCALE
Length (X_o=1520 TO X_o=1613)	In.	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. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS Pod (M_7)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015 Model Drawing No. SS-A00147

DRAWING NUMBER VL70-000140A
VL70-000145

DIMENSION:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X_o=1233.0) - IN.	327.000	4.905
Max Width (@ X_o=1450.0) - IN.	94.5	1.418
Max Depth (@ X_o=1493.0) - IN.	109.000	1.635
Fineness Ratio		
Area		
Max Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS Pod (M14)

GENERAL DESCRIPTION: Configuration 140C Orbiter OMS-Pod

Model Scale = 0.015 Model Drawing No.

DRAWING NUMBER VL70-000140 C
VL70-000410

DIMENSION:	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X_o=1311.0)-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	0.013
Planform		
Wetted		
Base		

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS NOZZLES - N_{28}

GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS Nozzles

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00106, RELEASE 5 (Contour)

DRAWING NUMBER: VL70-000140A (Location)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft^2		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Nozzle		
X_o	1518.0	22.770
Y_o	- 88.0	- 1.320
Z_o	492.0	7.380
Right Nozzle		
X_o	1518.0	22.770
Y_o	+ 88.0	+ 1.320
Z_o	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'

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R_5

GENERAL DESCRIPTION: 2A, 3, 3A and 1404/B Configurations

MODEL SCALE: 0.015

DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

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 (Product of area & $\bar{c}$)-Ft^3	610.92	0.002
*Mean Aerodynamic Chord, In.	73.2	1.098

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*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V_8

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015 MODEL DRAWING: 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	0.003
Blanketed Area	0.00	0.00

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W 116

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: SC 000148 RELEASE 6

TEST NO. DWG. NO. VL70 000140B, -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2		
Planform	2690.00	0.605
Span (Theo In.	933.68	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
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 (Theo) B.P.0.0.	683.24	10.339
Tip, (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
EXPOSED DATA		
* Area (Theo) Ft^2	1751.59	0.394
* Span, (Theo) In. BP108	733.68	10.810
* Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
* Root BL108	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	294.39	4.415
* B.L. of .25 MAC	251.77	3.777
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff		
*Planform Area Ft^2	113.18	0.025
* Leading Edge Intersects Fus M. L. @ Sta	502.0	7.50
* Leading Edge Intersects Wing @ Sta	1024.00	15.36

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

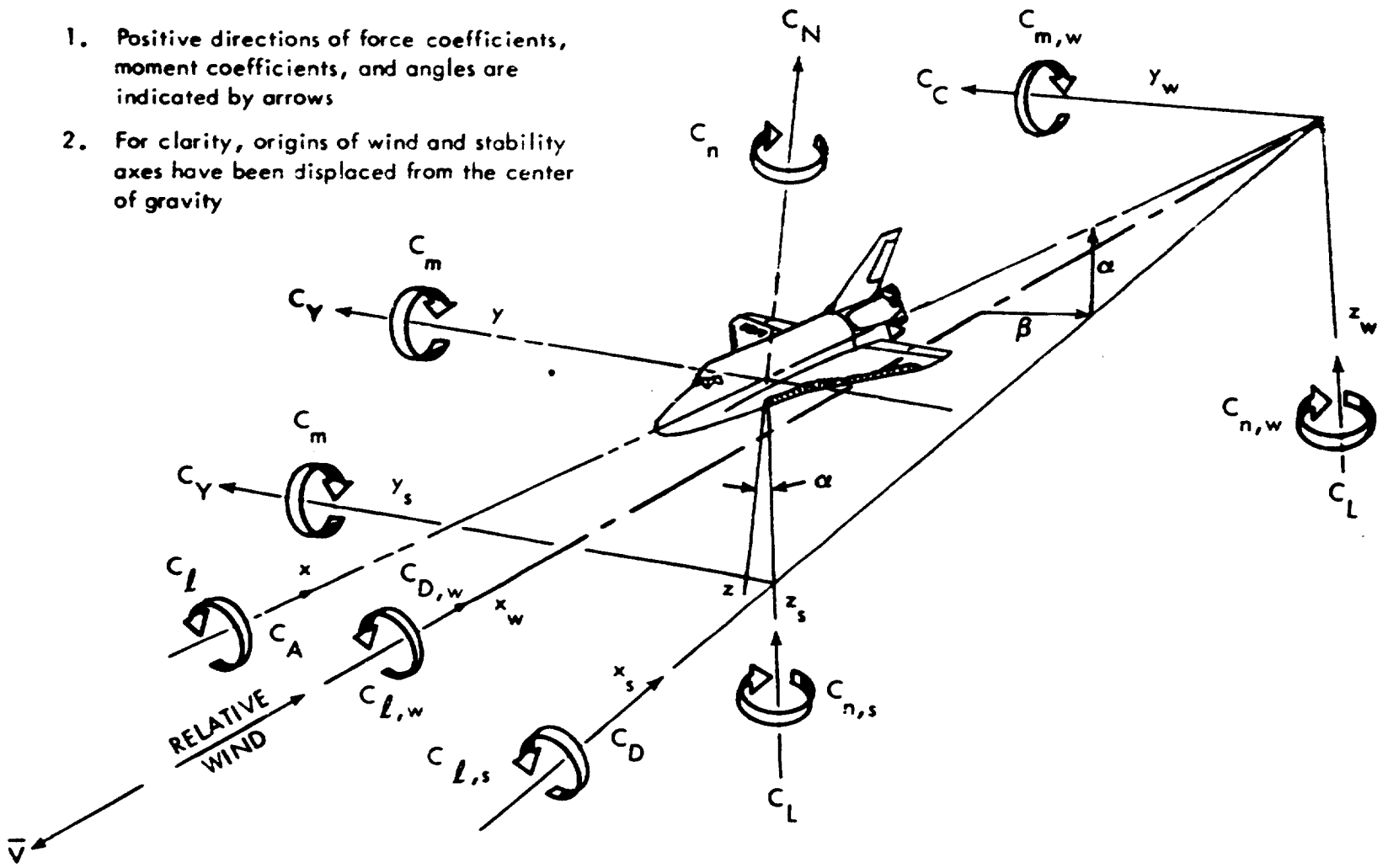
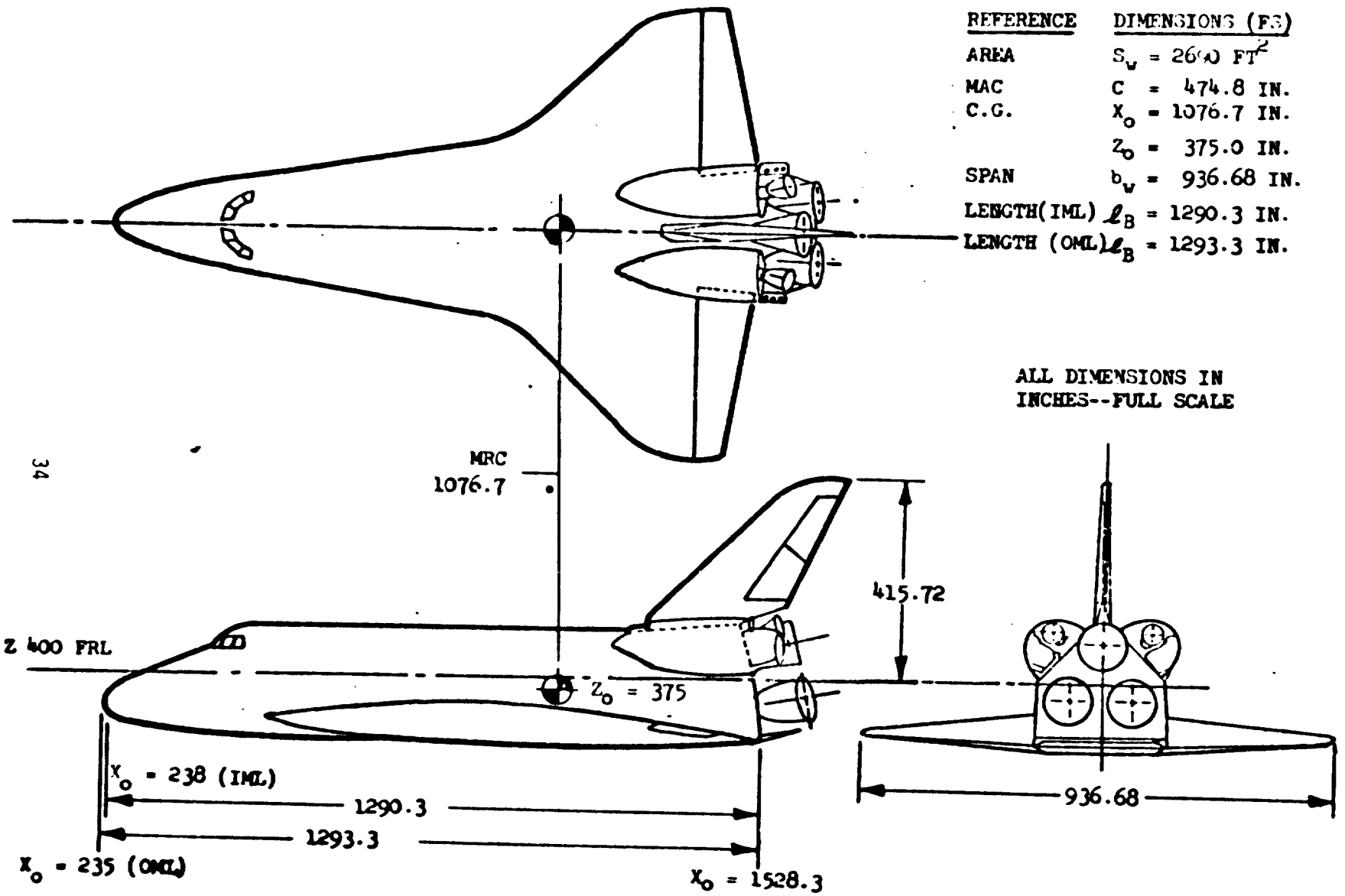
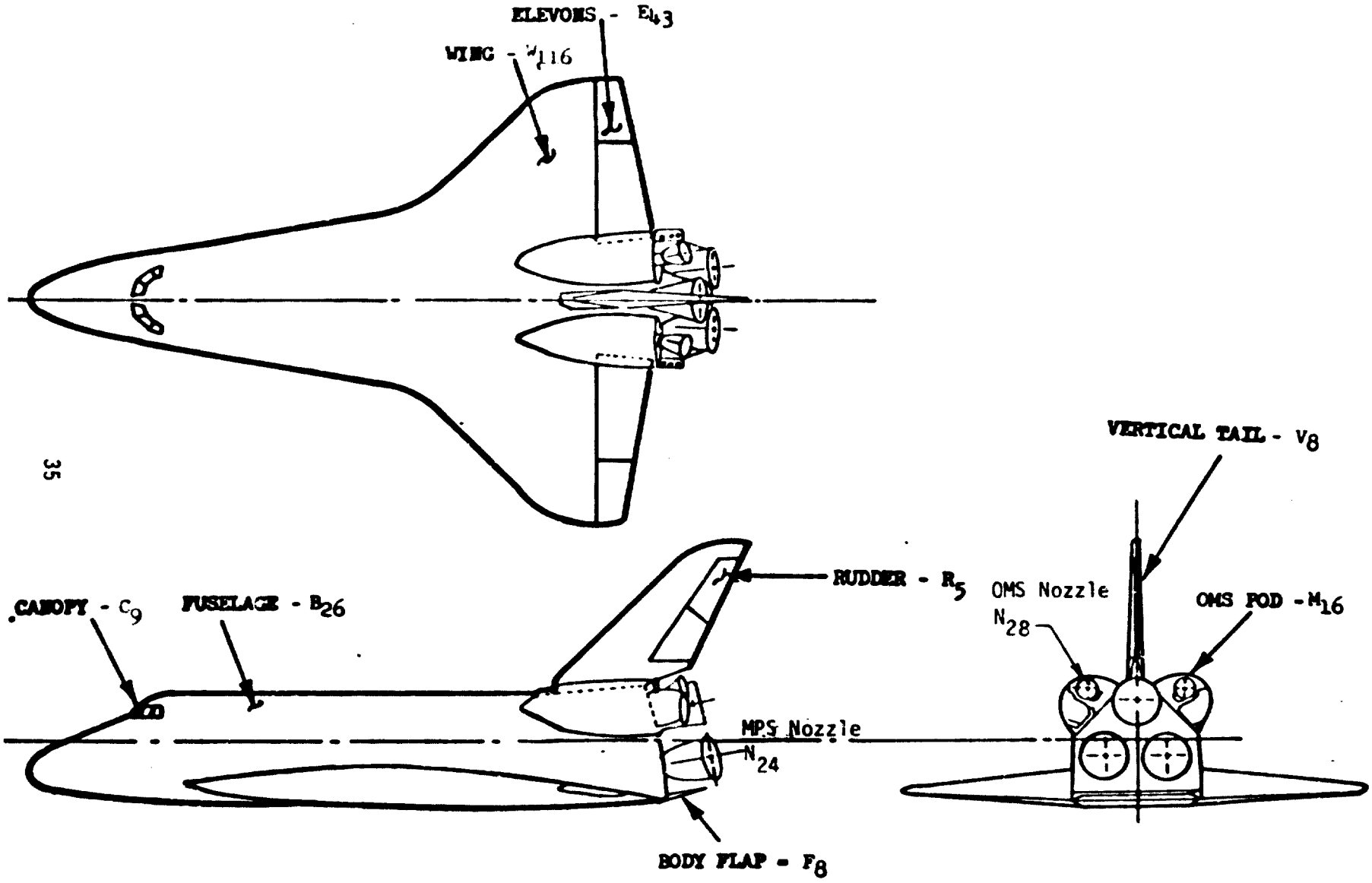


Figure 1. - Axis systems.



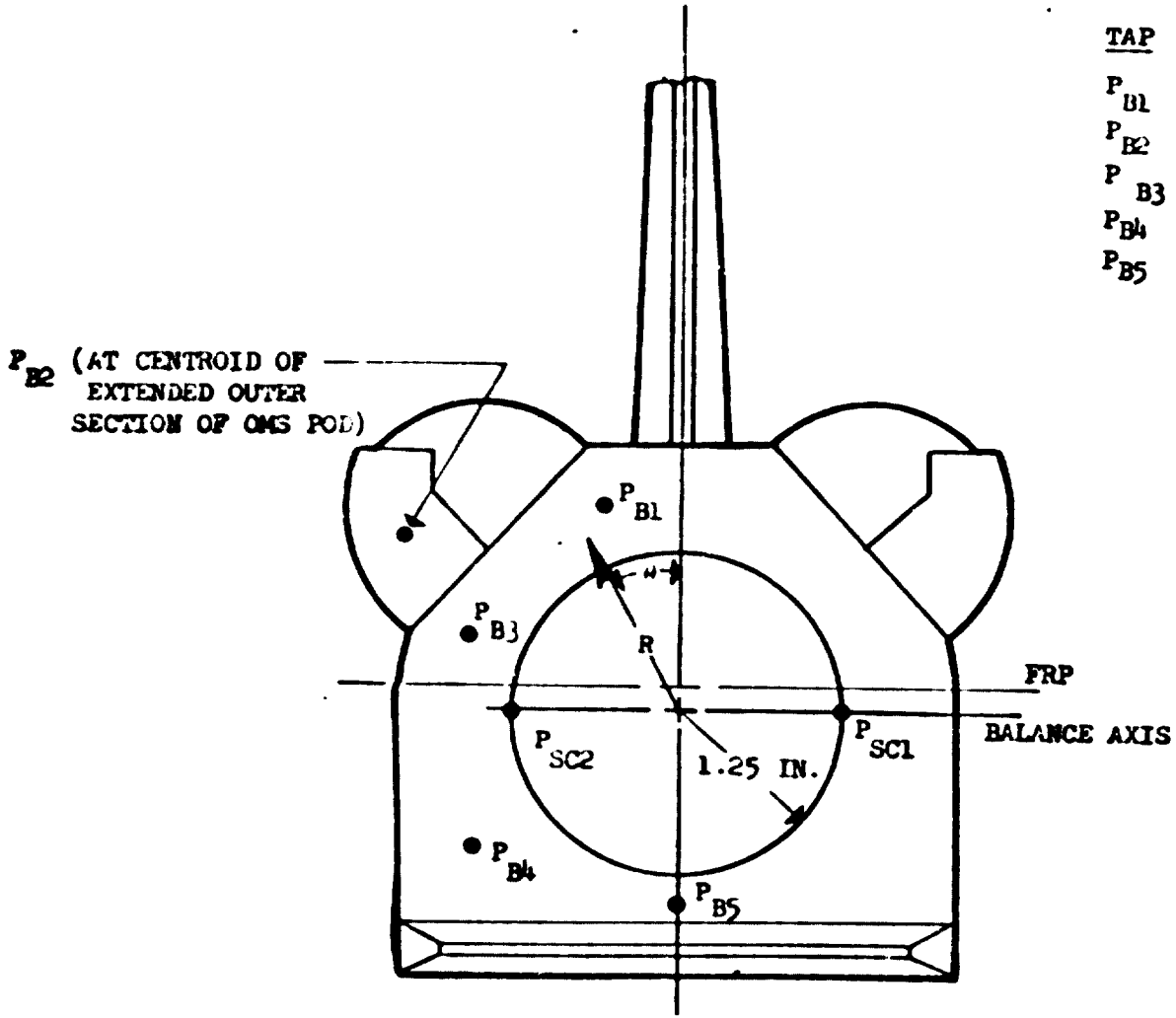
a. SSV Orbiter Configuration 140A/B-Modified

Figure 2. - Model sketches.



b. Model Configuration

Figure 2. - Continued.



TAP	θ	R
P_{B1}	20°	1.60 IN.
P_{B2}	57°	2.10 IN.
P_{B3}	70°	1.50 IN.
P_{B4}	125°	1.76 IN.
P_{B5}	180°	1.33 IN.

c. Base and Cavity Pressure Locations

Figure 2. - Concluded.

a. View Looking Aft With Model Rolled

Figure 3. - Model photographs.

b. Side View of Model for a Beta Sweep

Figure 3. - Concluded.

DATA FIGURES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006) ○	0A79 B26 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(CTV001) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV009) ◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

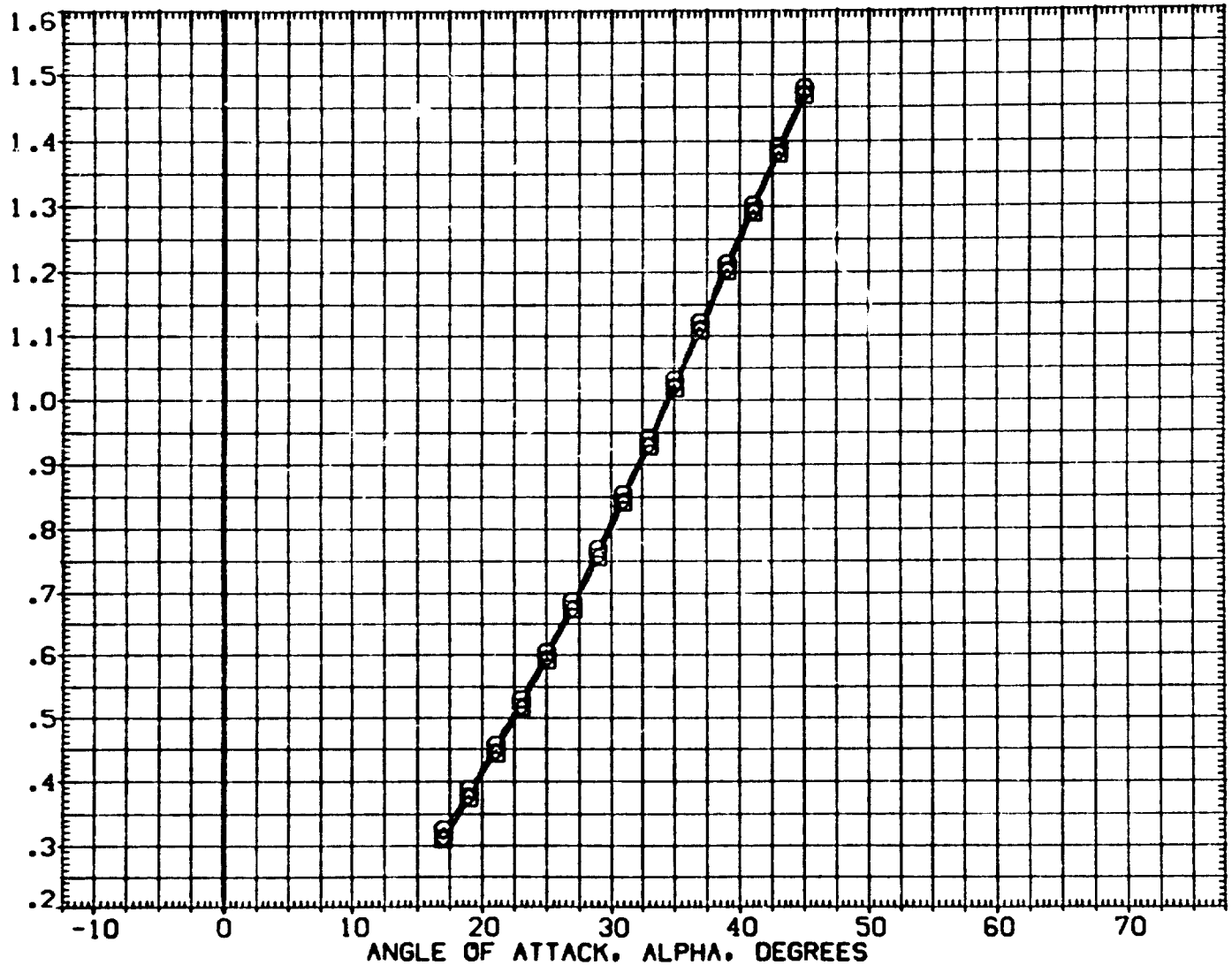


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	0A7S B26 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

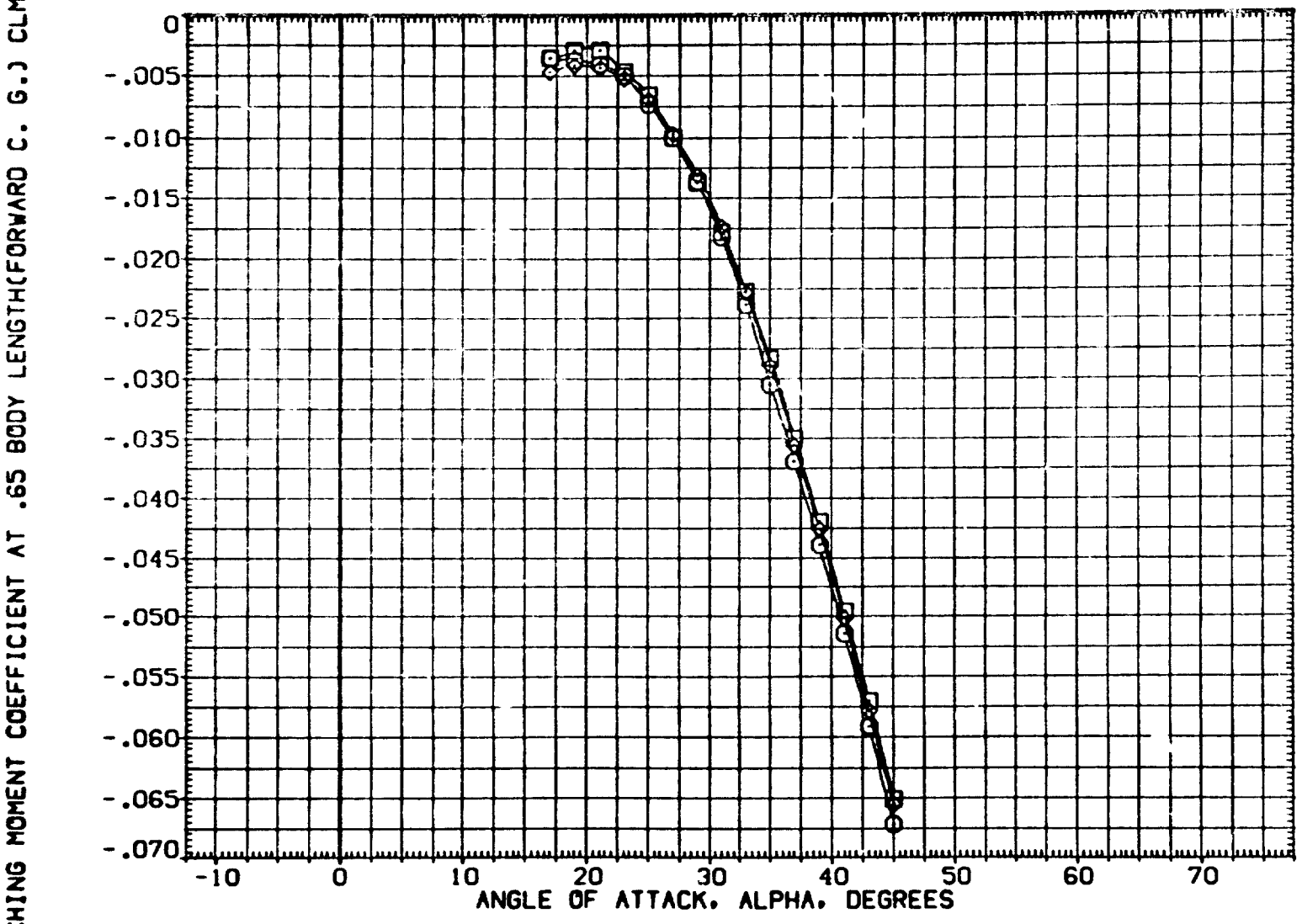


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

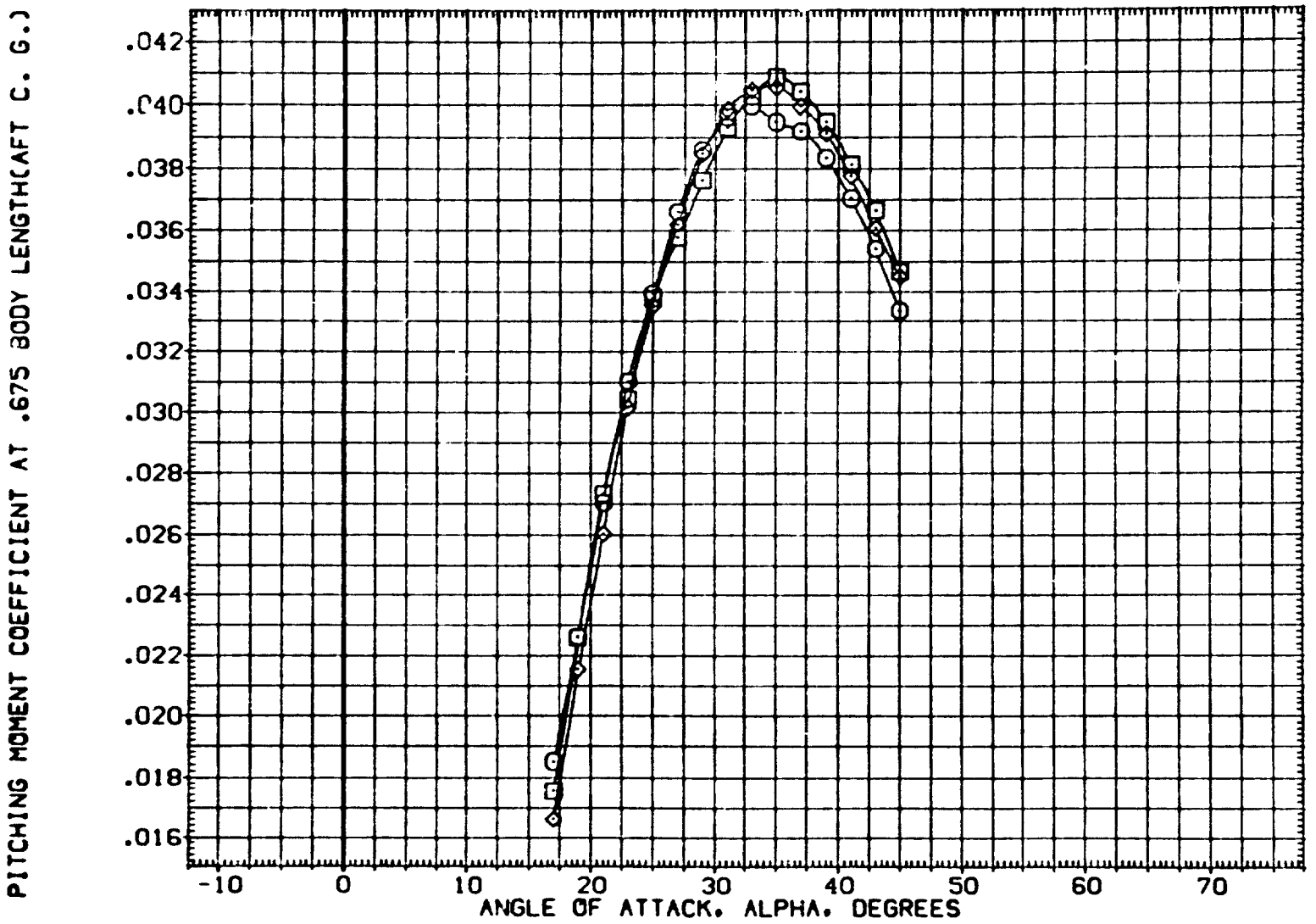


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	0A73 B26 C9 E43 F8 N26 R5 V8 V116	.000	.000	.000	.000
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

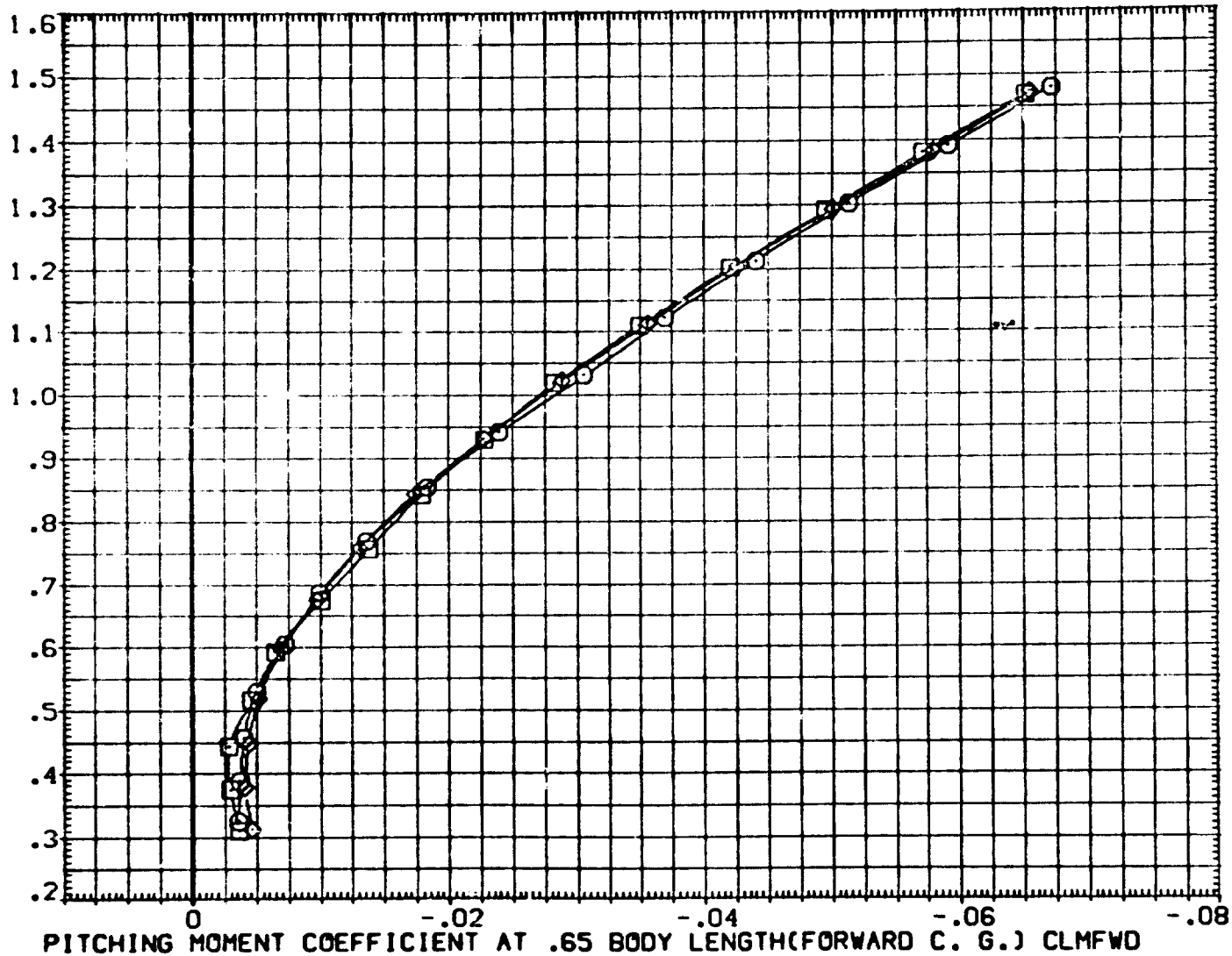


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

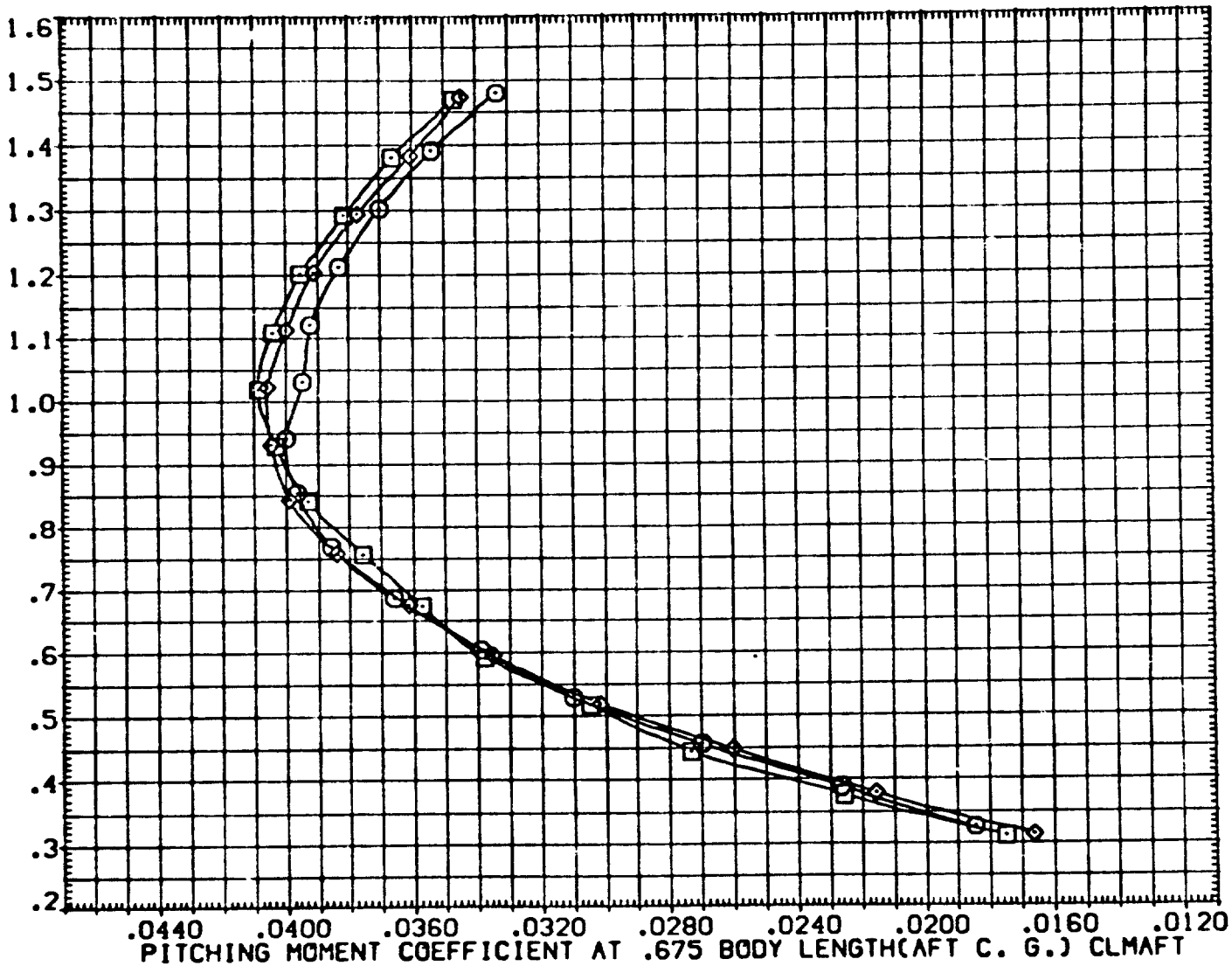


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV006)	▭	0A79 B26 C9 E43 F8 N28 R5 V8 W116
(CTV001)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 W116

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

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

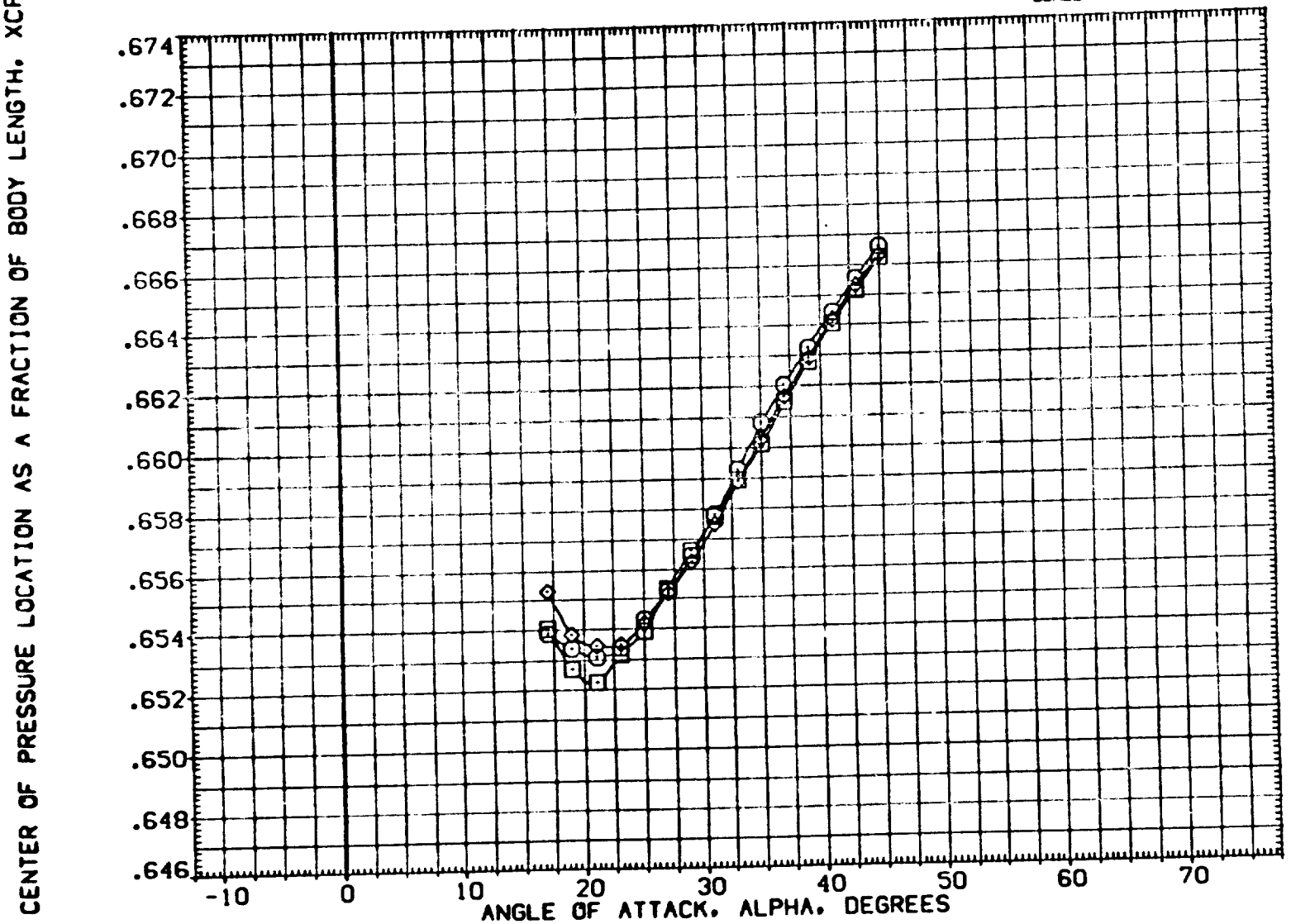


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 W116	.000	.000	.000	.000
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

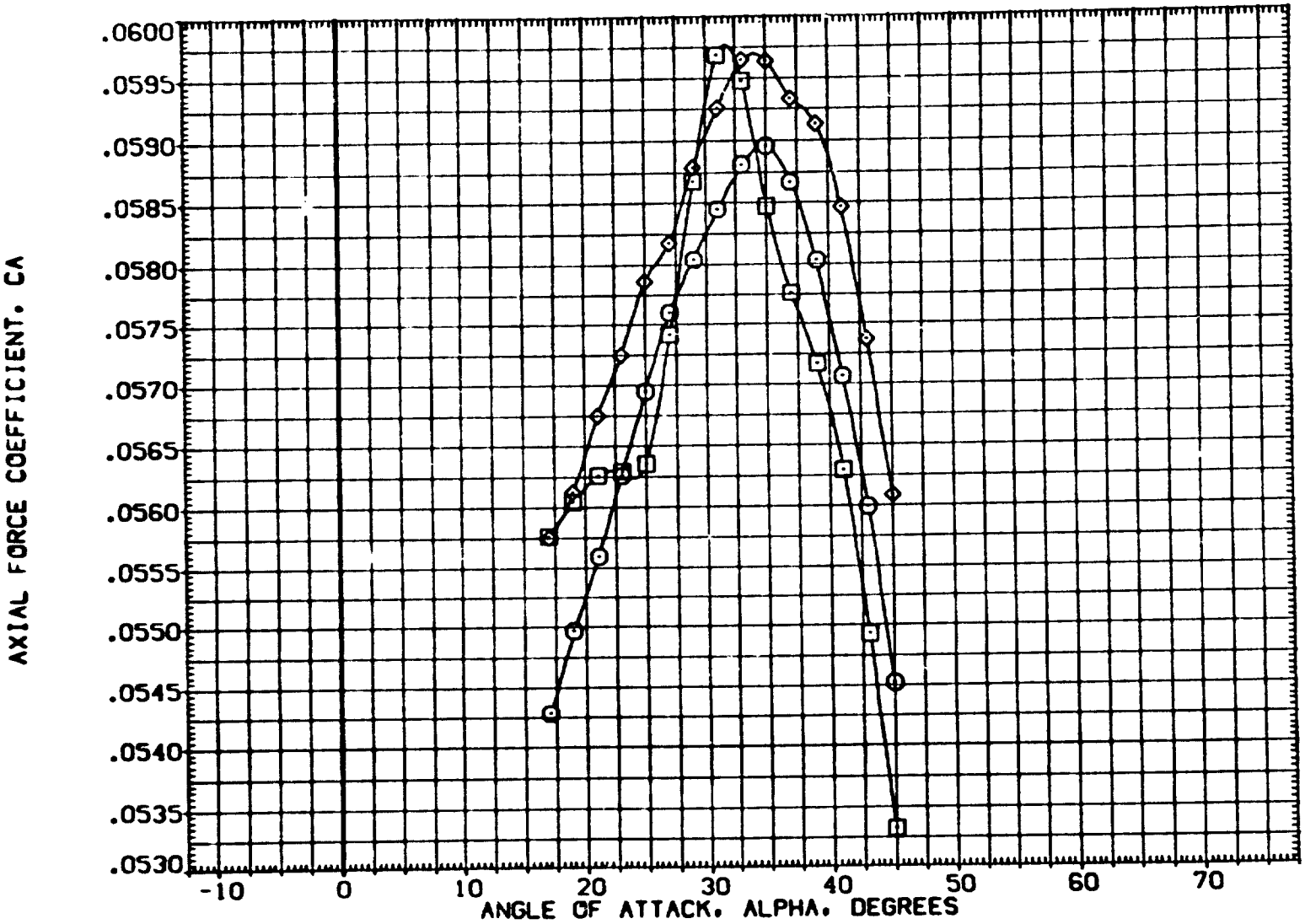


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 V116
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116

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

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

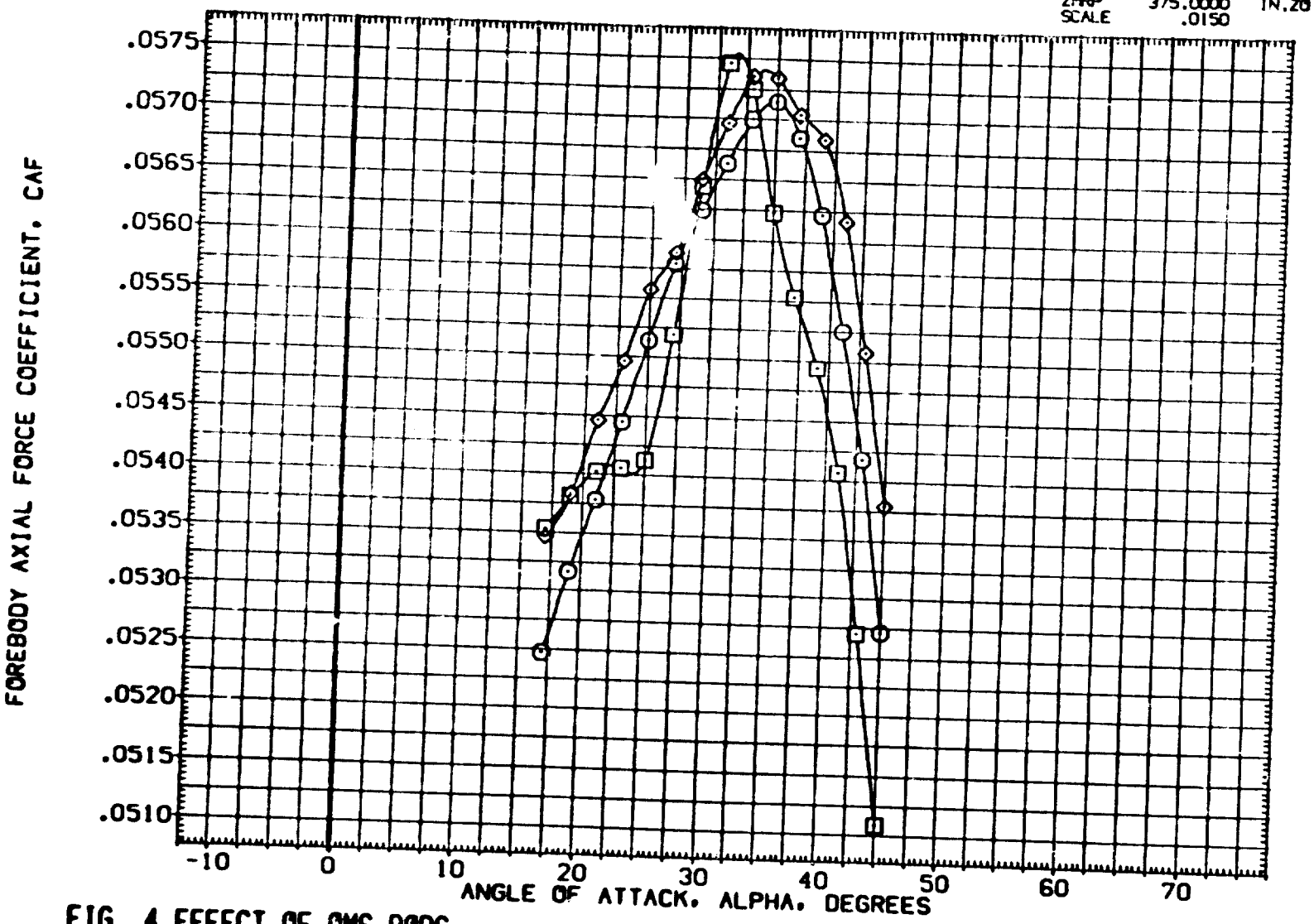


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 V116
(CTV001)	□	0A79 B26 C9 E43 F8 M1S N28 R5 V8 V116
(CTV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116

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

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

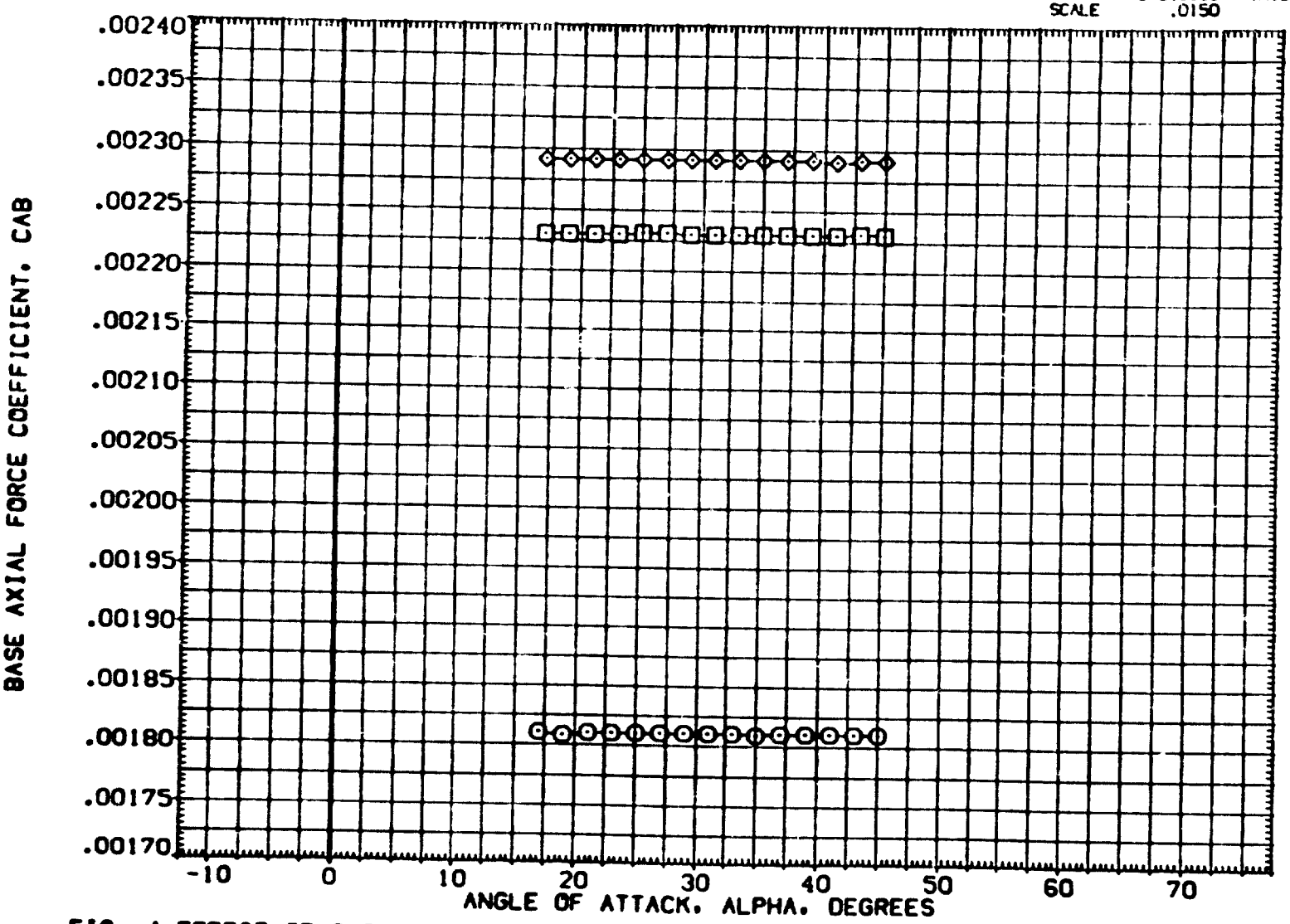


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV006)	○	OA79 B26 C9 E43 F8 N28 R5 Y8 V116	.000	.000	.000	.000
(CTV001)	□	OA79 B26 C9 E43 F8 M16 N28 R5 Y8 V116	.000	.000	.000	.000
(CTV009)	◇	OA79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

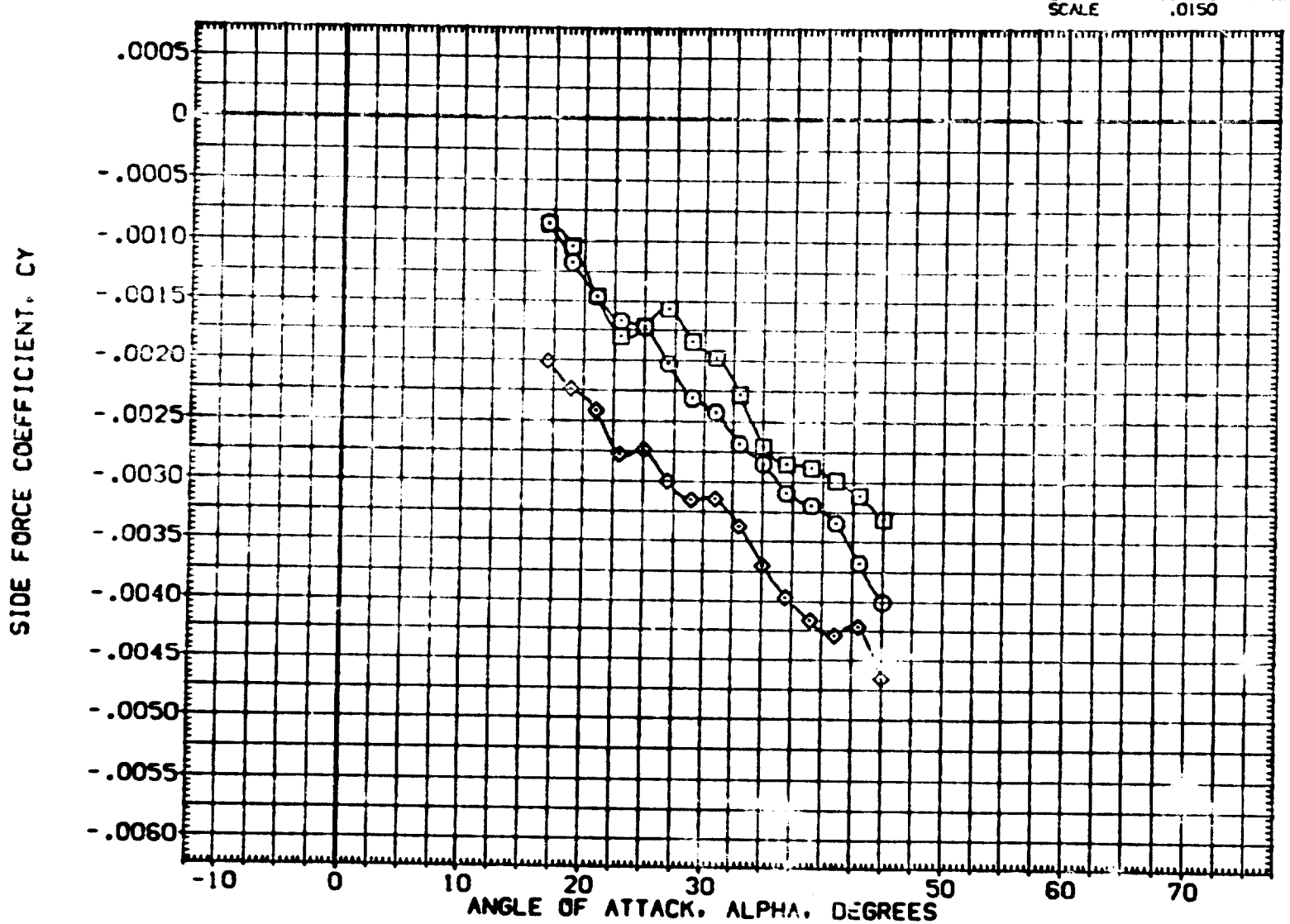


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(A)(W006)	□	OA79 826 C9 E43 F8 N28 R5 V8 W116	.000	.000	.000	.000
(A)(W007)	△	OA79 826 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(A)(W009)	◇	OA79 826 C9 E43 F8 M7 N28 R5 V8 W116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

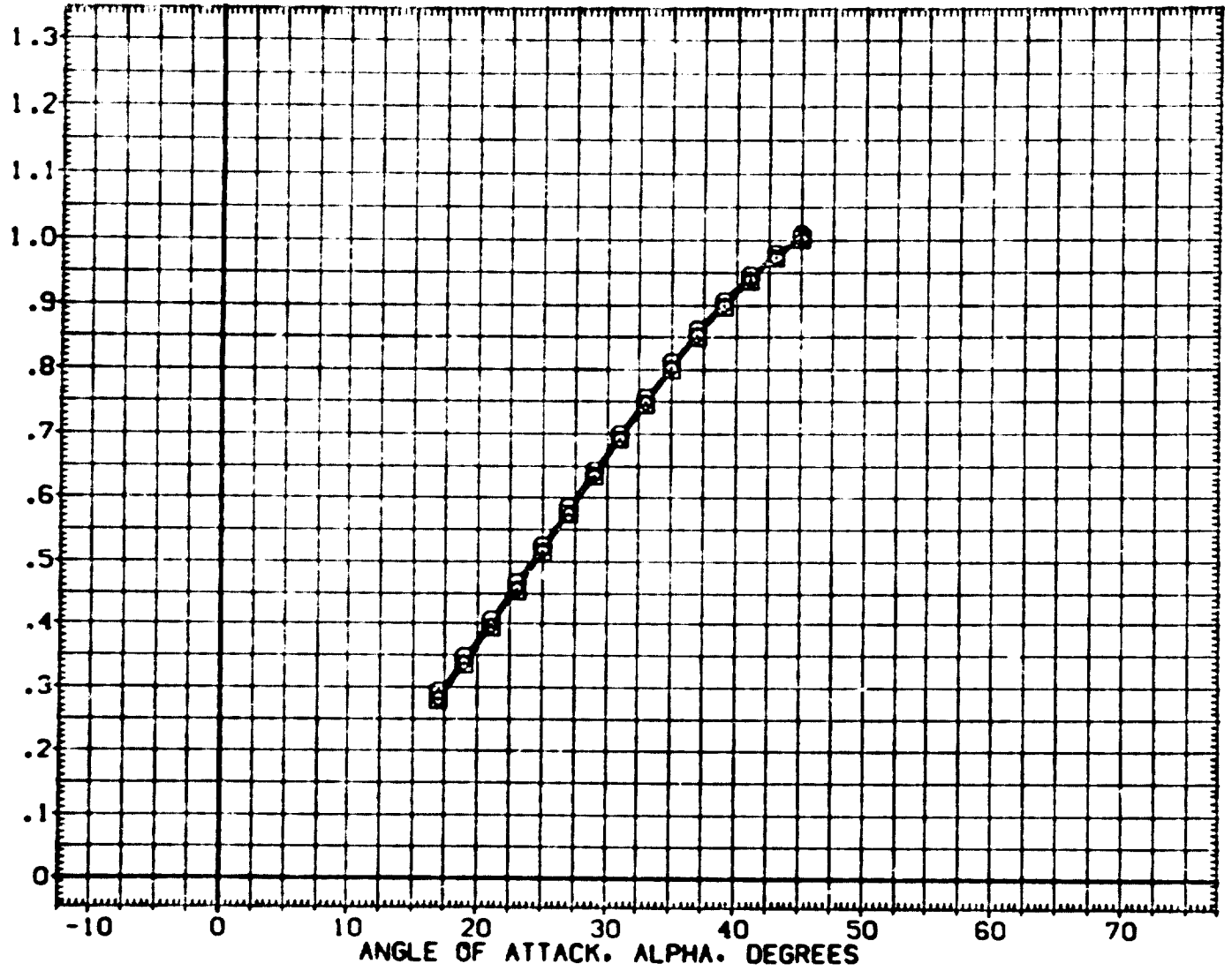


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV0006)	○	0A79 B25 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(ATV0001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(ATV0009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	3000.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

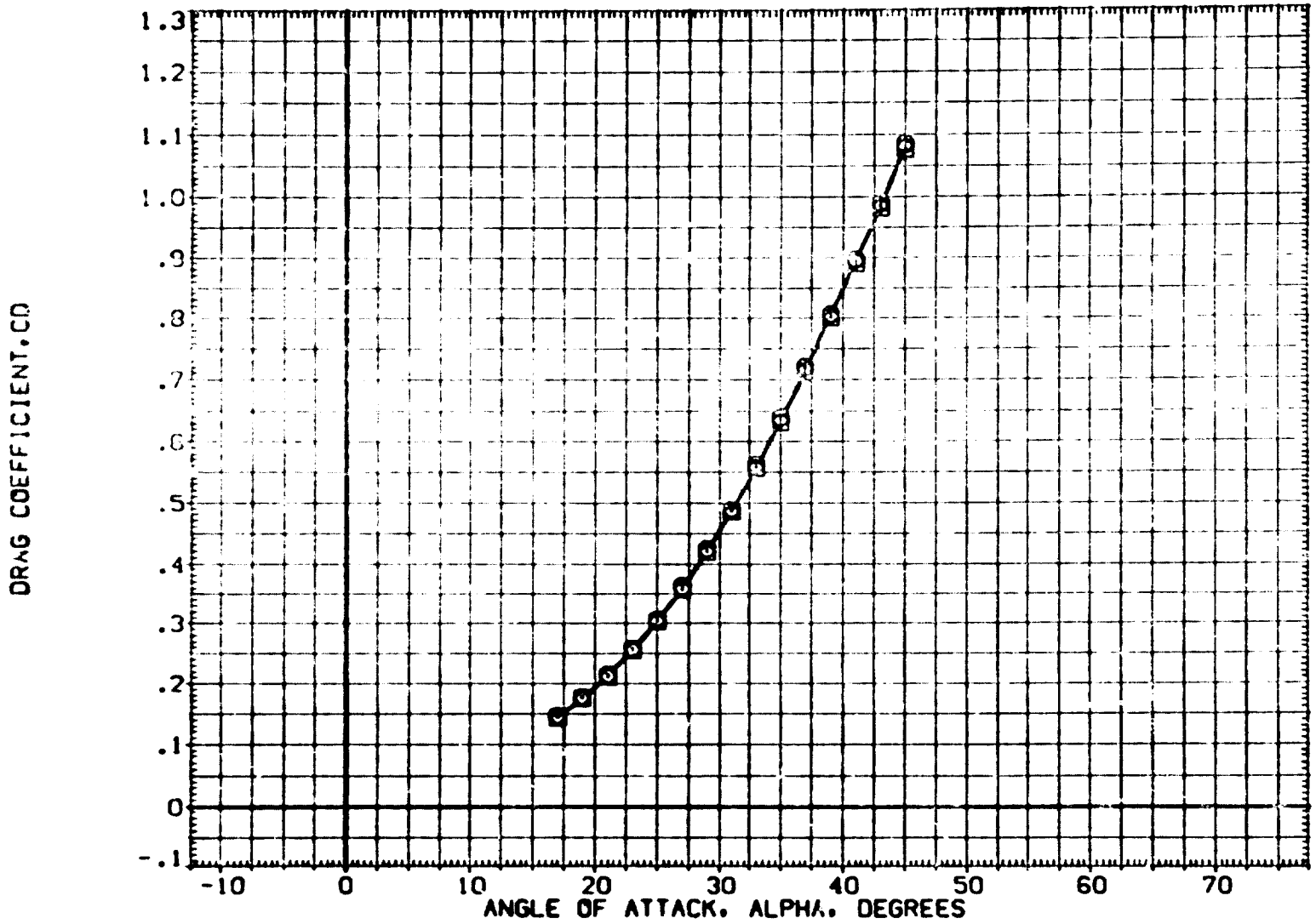


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV006)	○	0A79 B26 C9 E43 F8 N28 R5 V8 V116	.000	.000	.000	.000
(ATV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(ATV009)	◇	0A79 B26 C9 E43 F8 M7 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

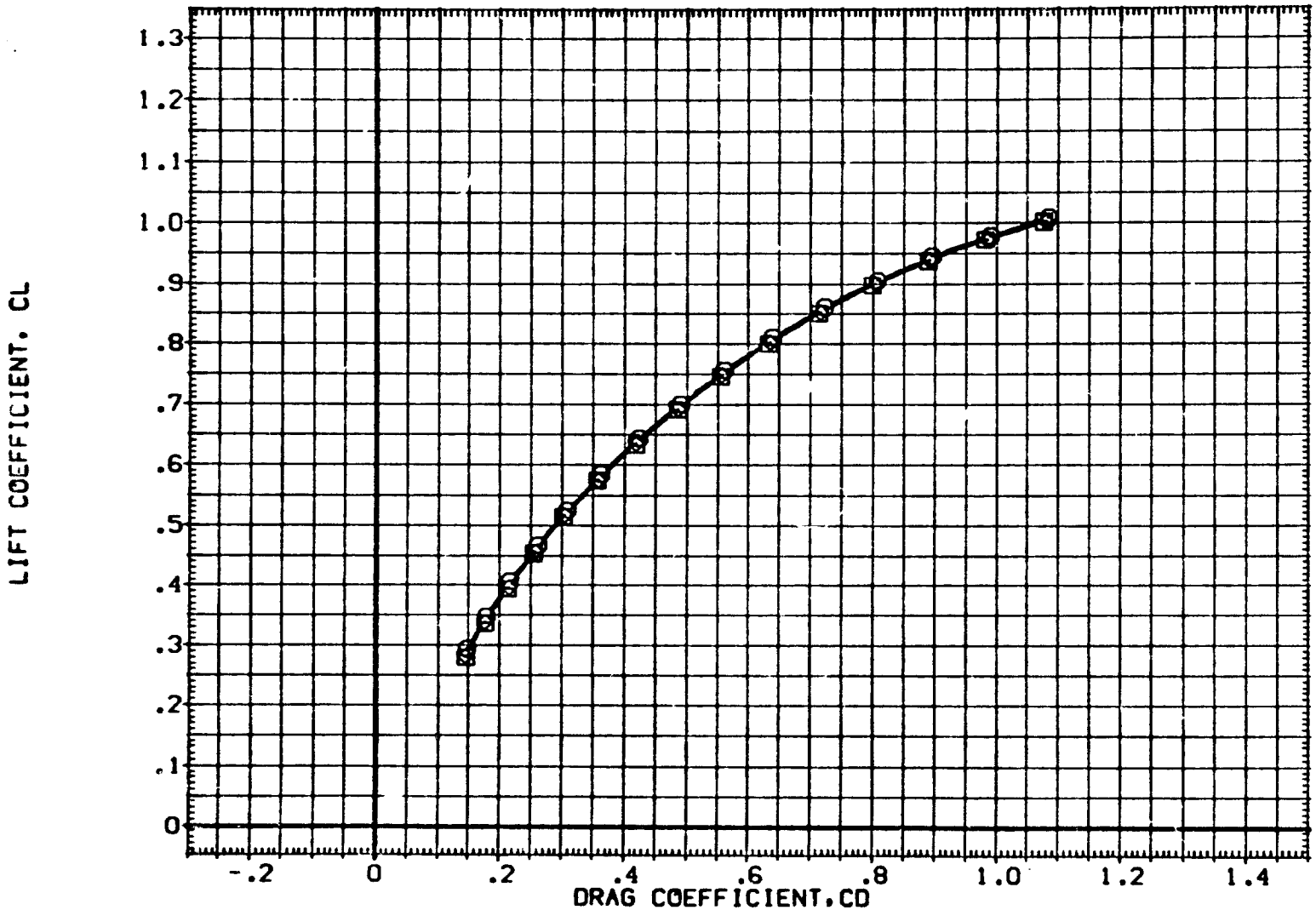


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV006)	□	0A79 B26 C3 E43 F8 N28 R5 V8 W16	.000	.000	.000	.000
(ATV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	.000	.000	.000
(ATV009)	△	0A79 B26 C9 E43 F8 M7 N28 R5 V8 W16	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

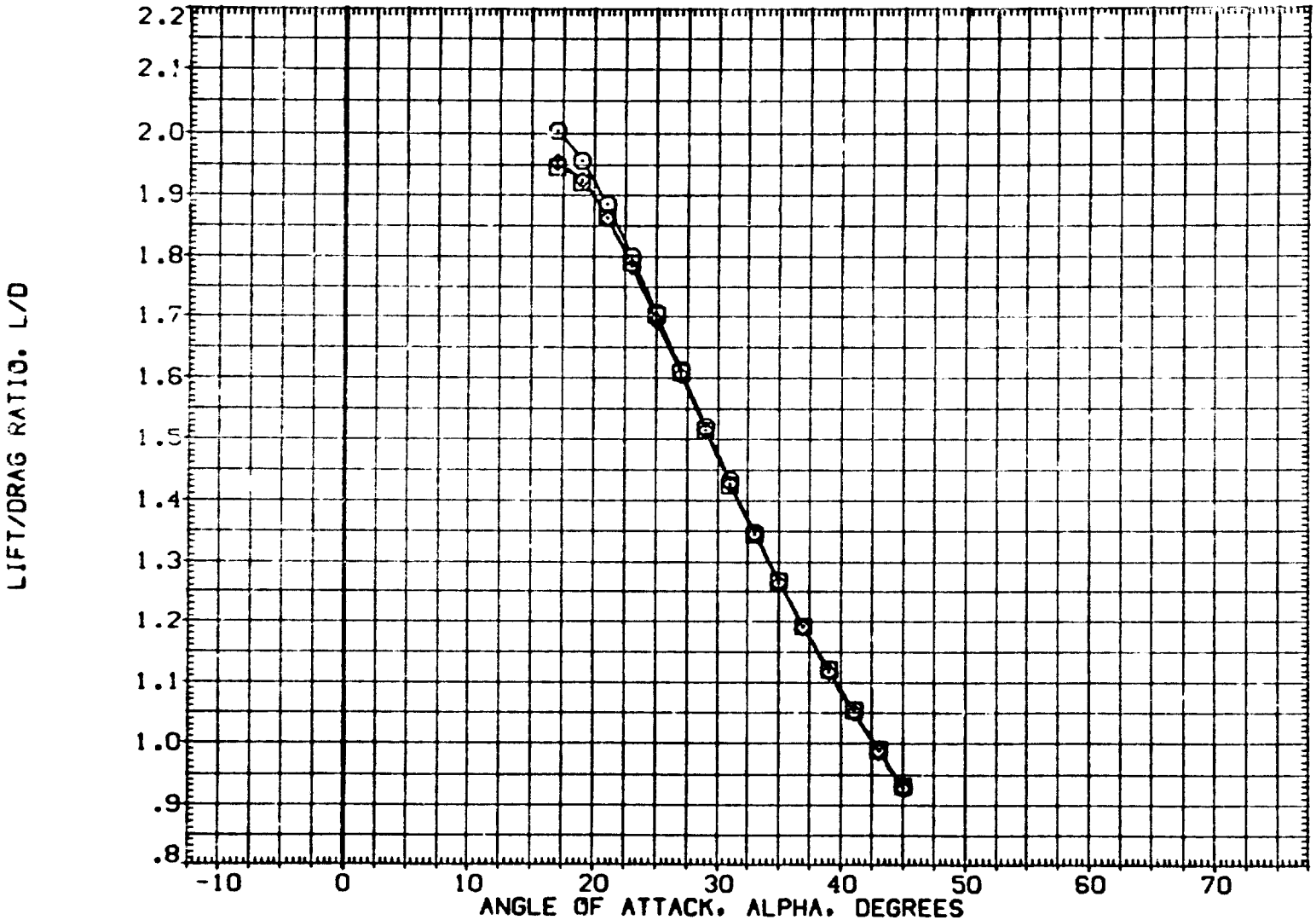


FIG. 4 EFFECT OF OMS PODS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTV042)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
L.REF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.01E0	

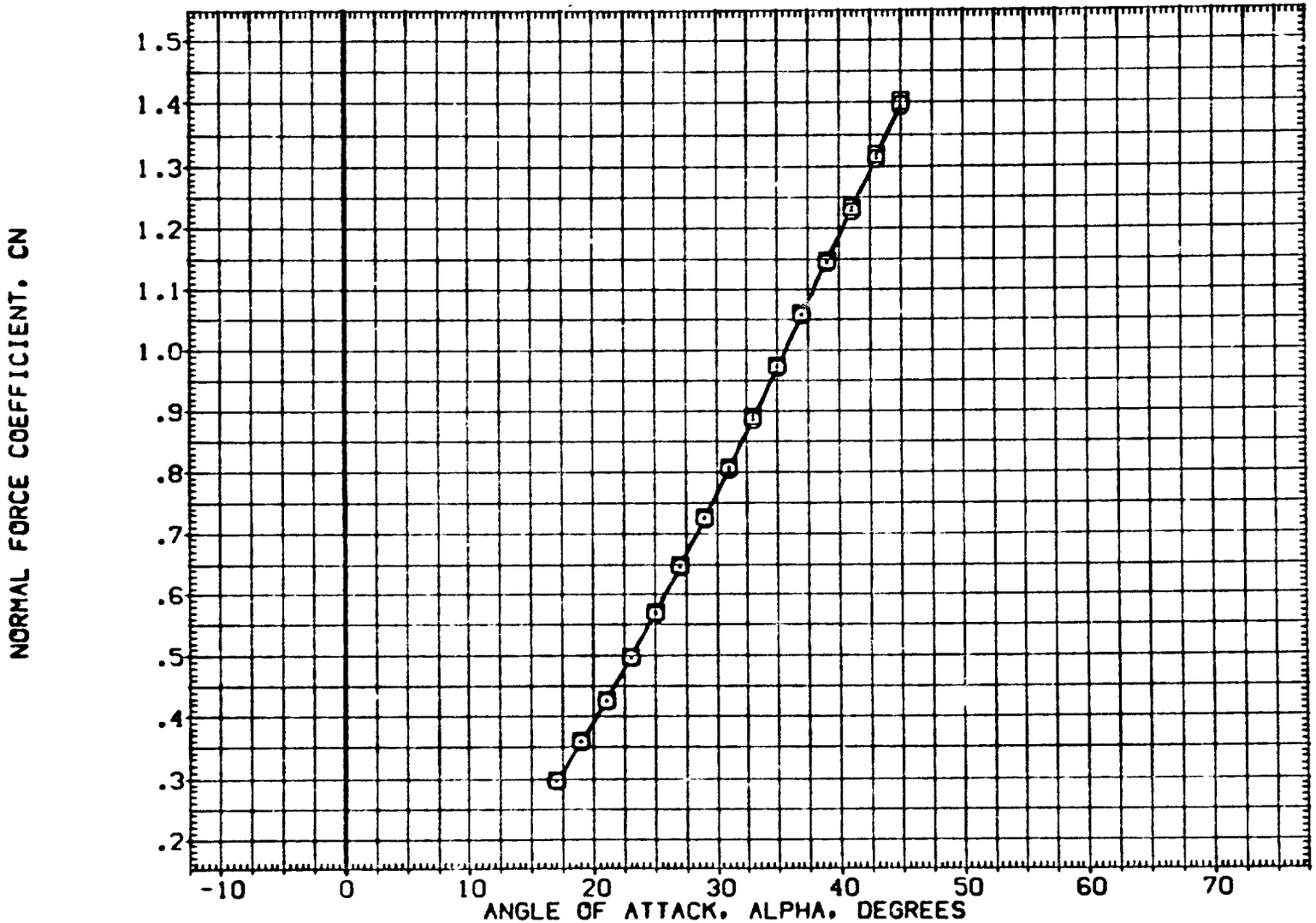


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTV042)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	174.3100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

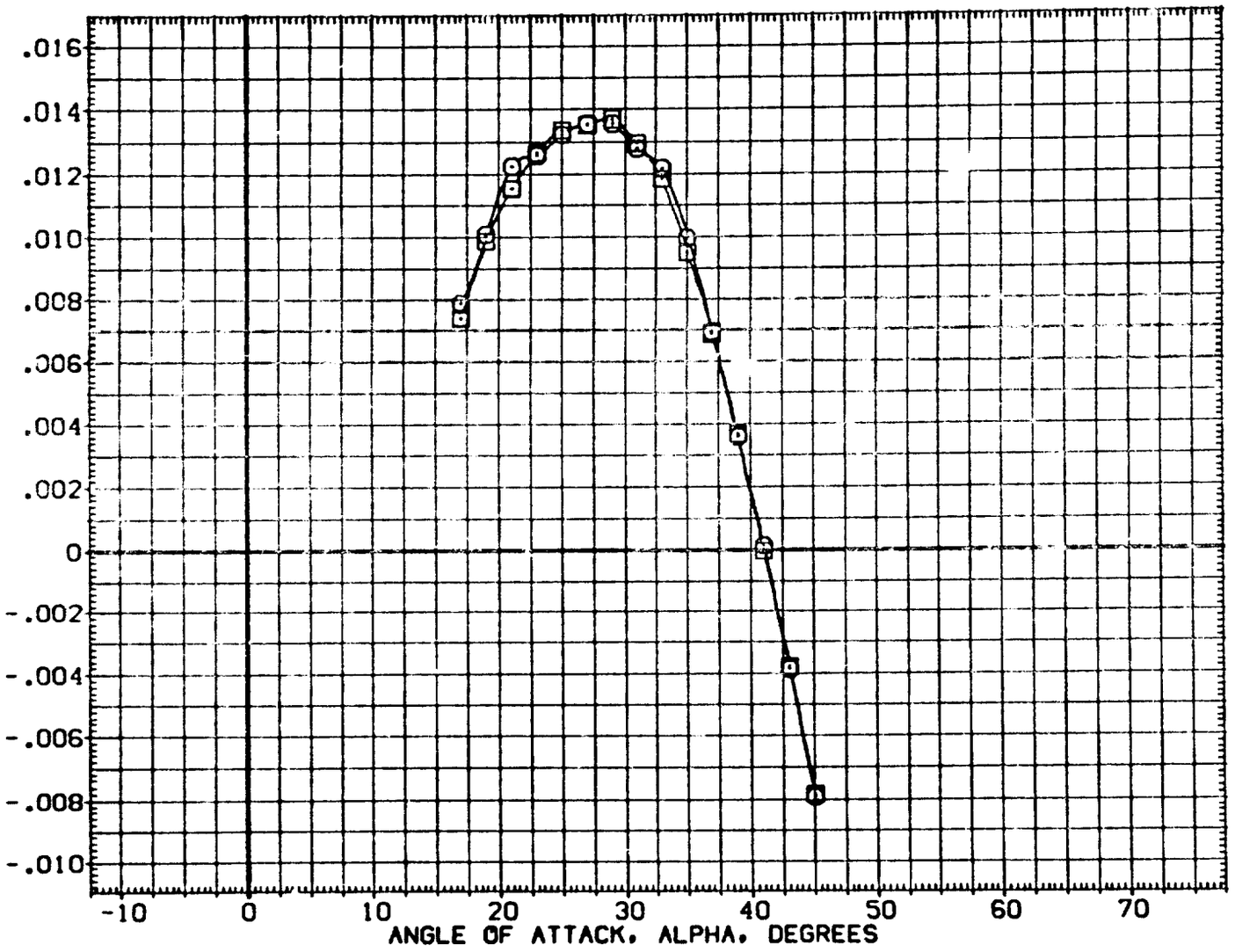


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTV042)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

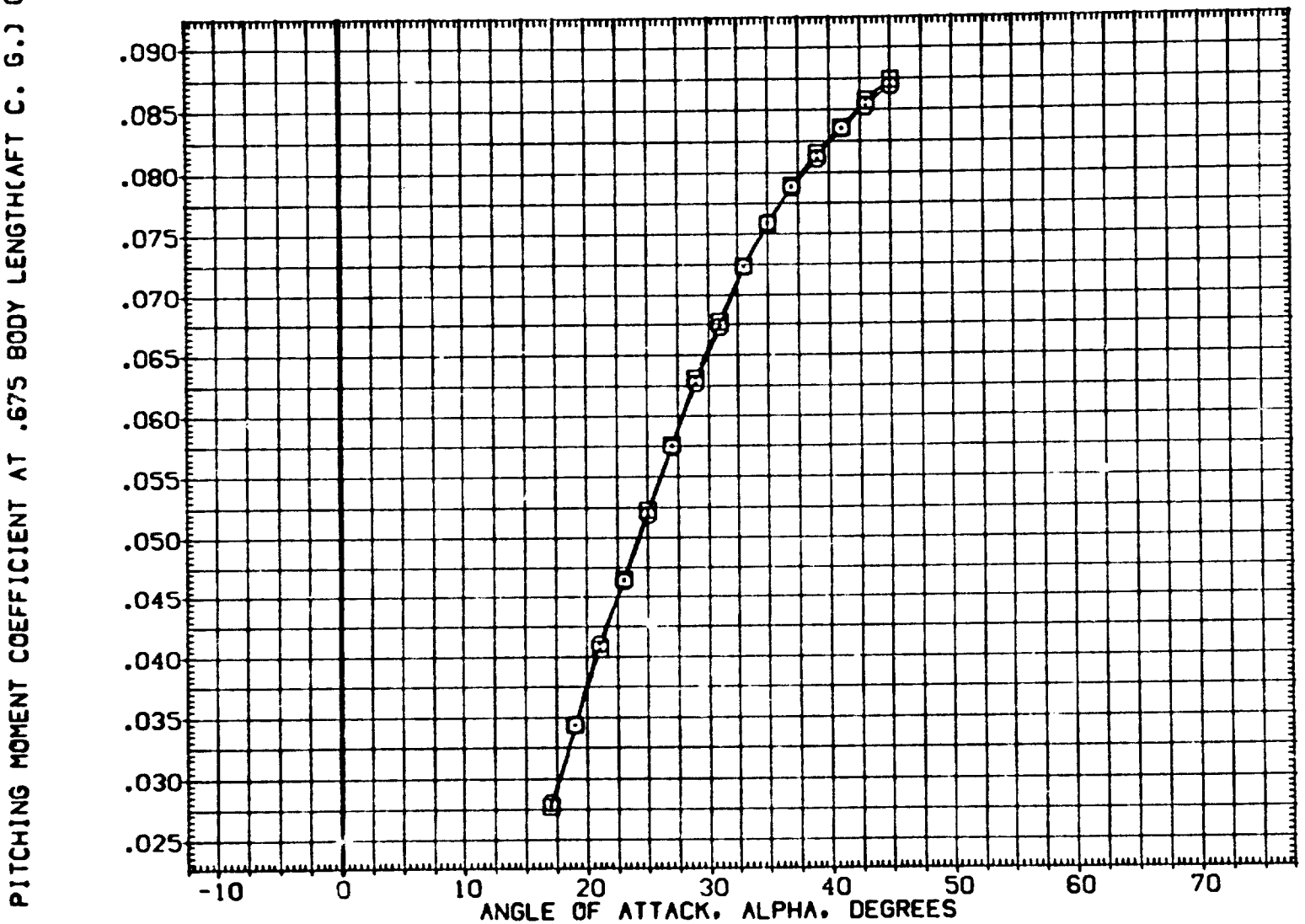


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTW015)	8	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTW042)	8	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

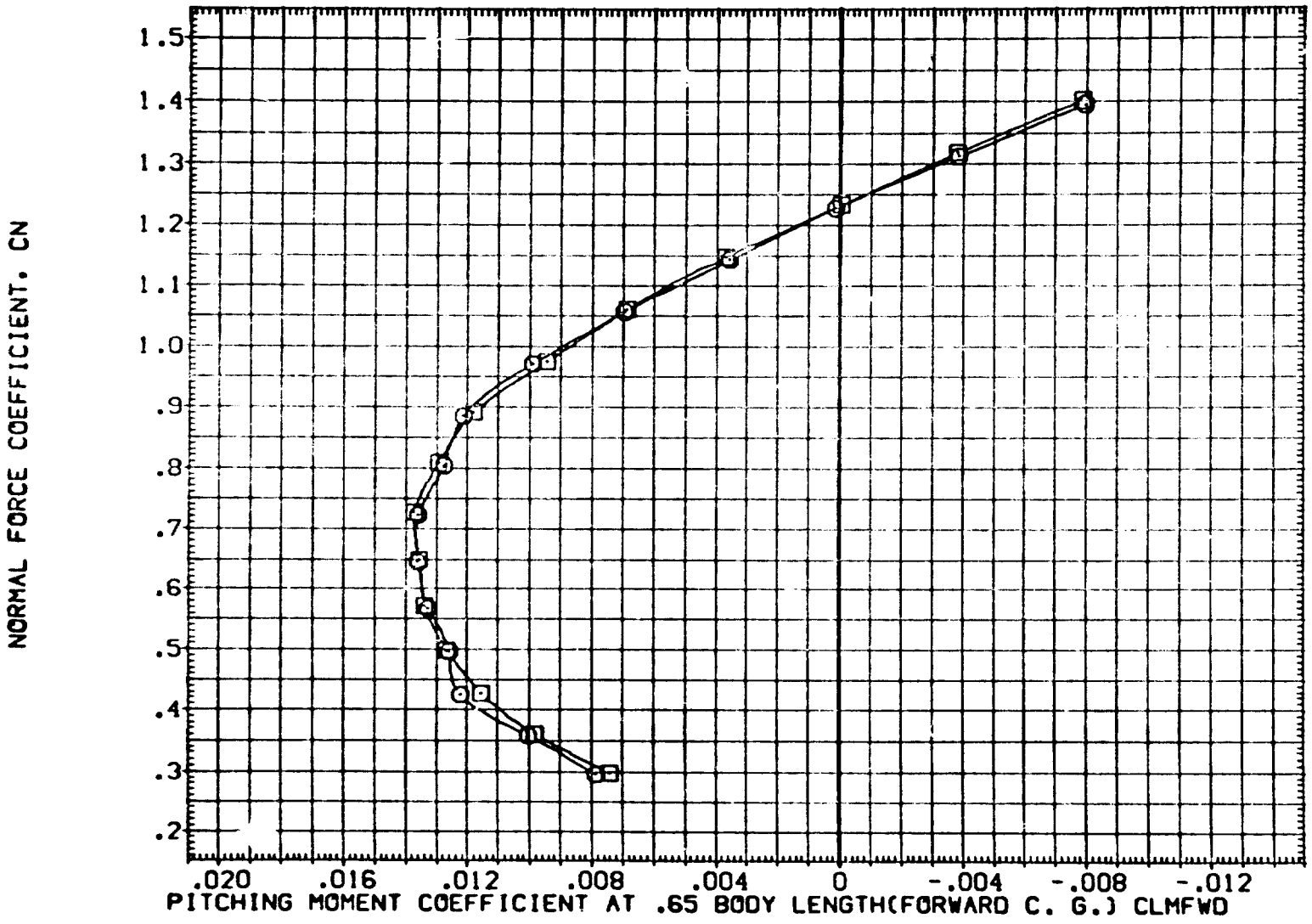


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)		0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	1.000
(GTV042)		0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

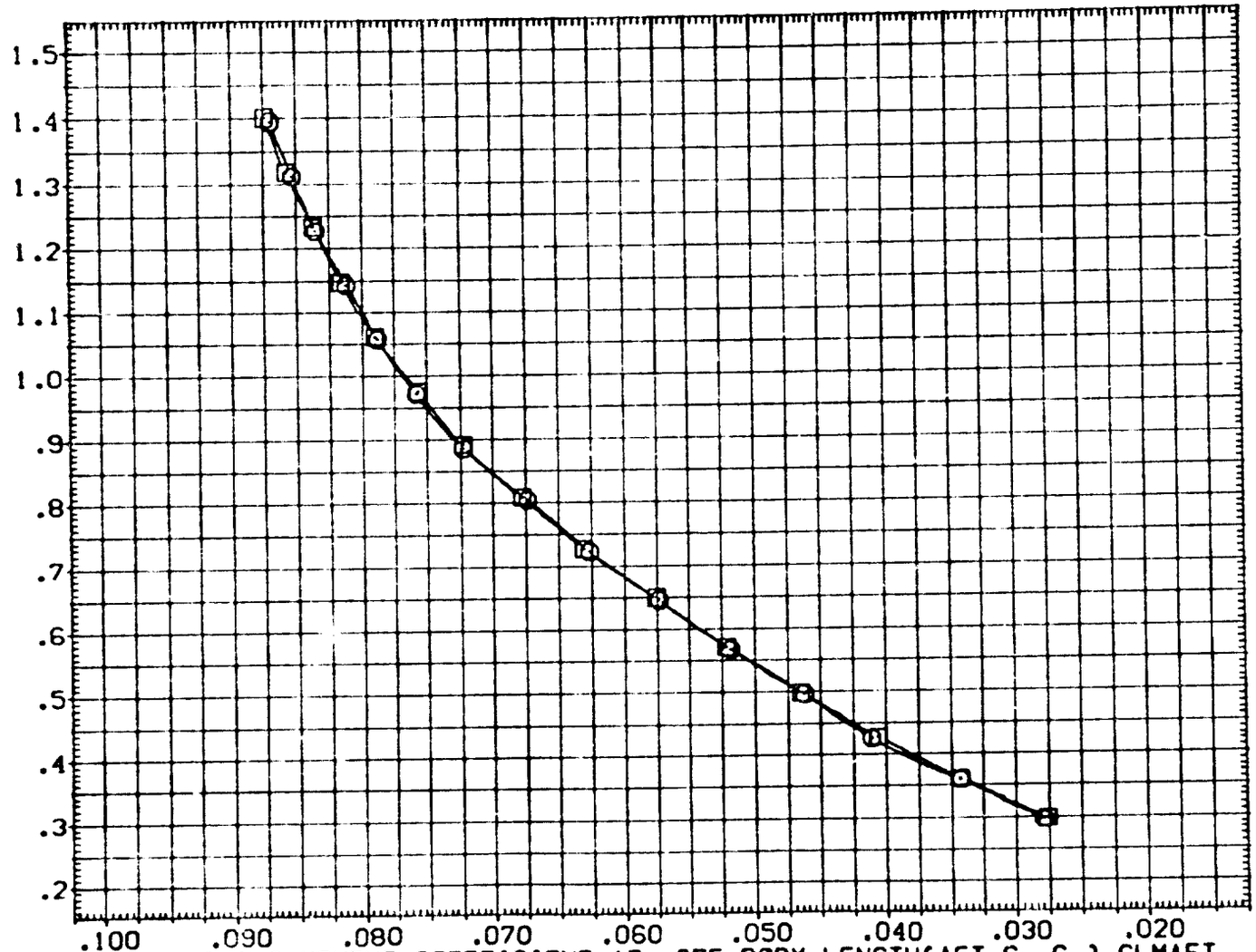


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	EL-GAP
[GTV015]	○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.000
[GTV042]	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

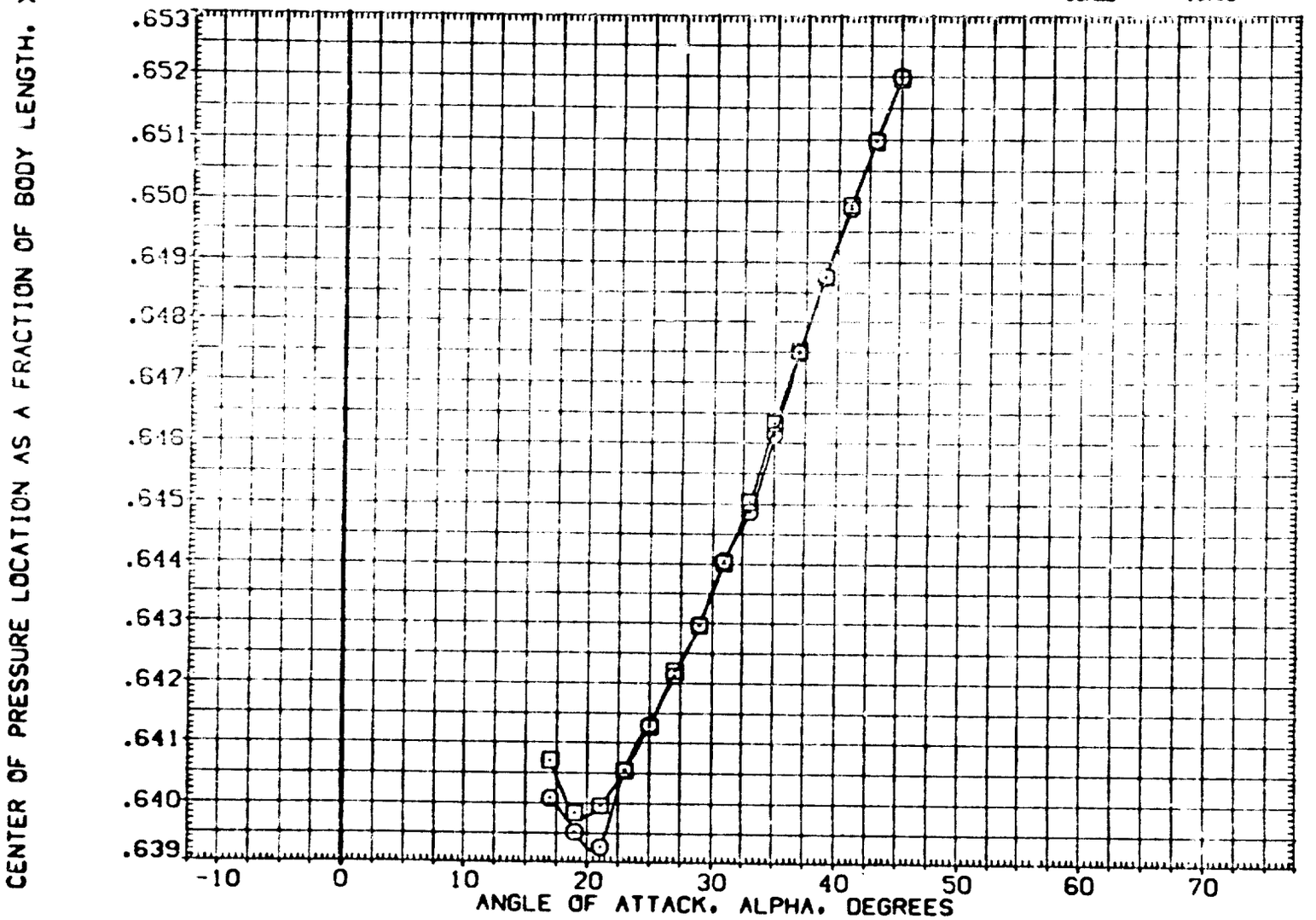


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)		0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTV042)		0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

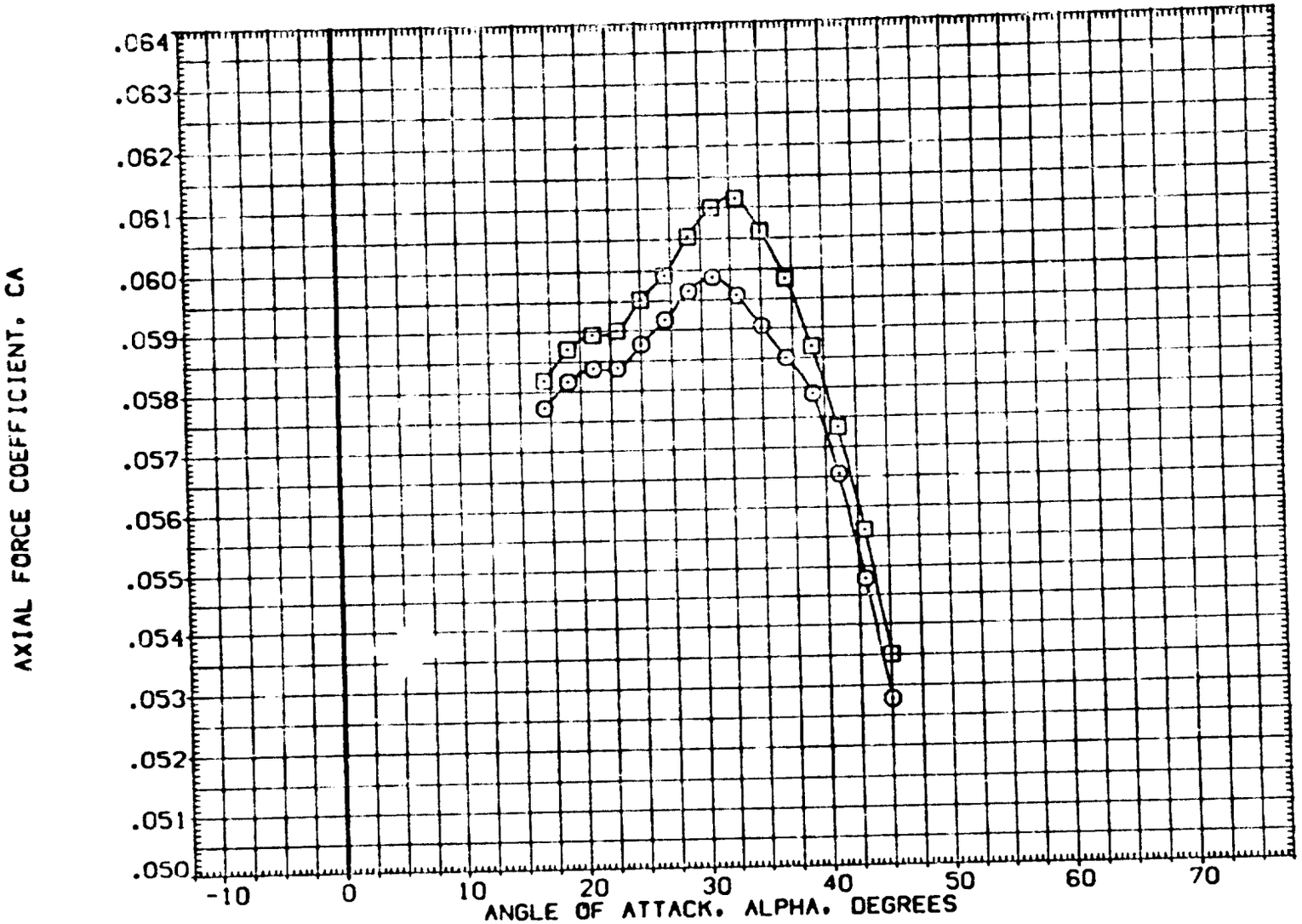


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	☐	0A78 B26 C9 E43 F8 H16 N28 R5 V8 V16	1.000
(GTV042)	⊟	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V16 SEALED GAP	.000

REFERENCE INFORMATION		
SREF	2650.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

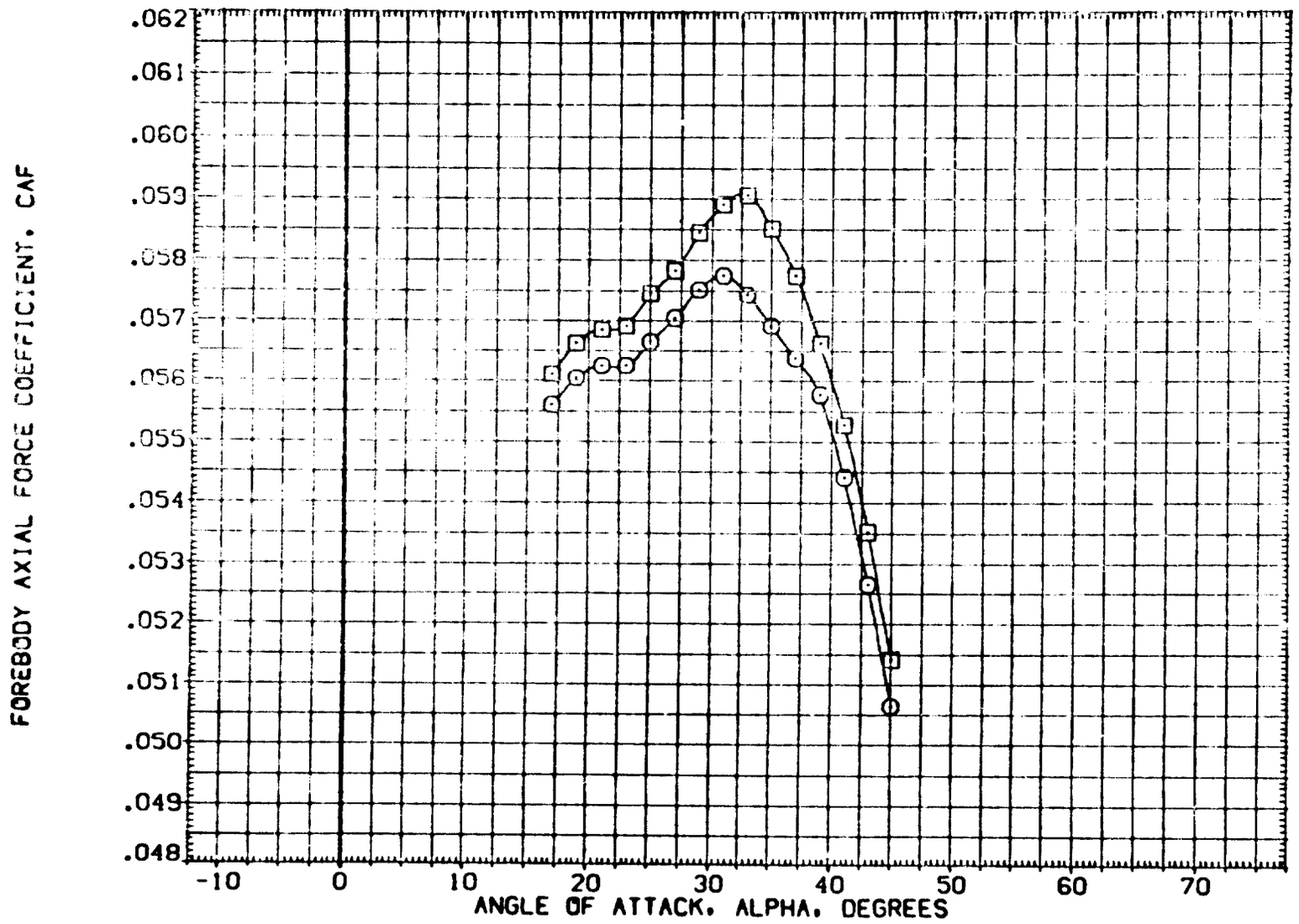


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	⊡	OA79 B26 C9 E43 F8 M16 N2d R5 V8 V116	1.000
(GTV042)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

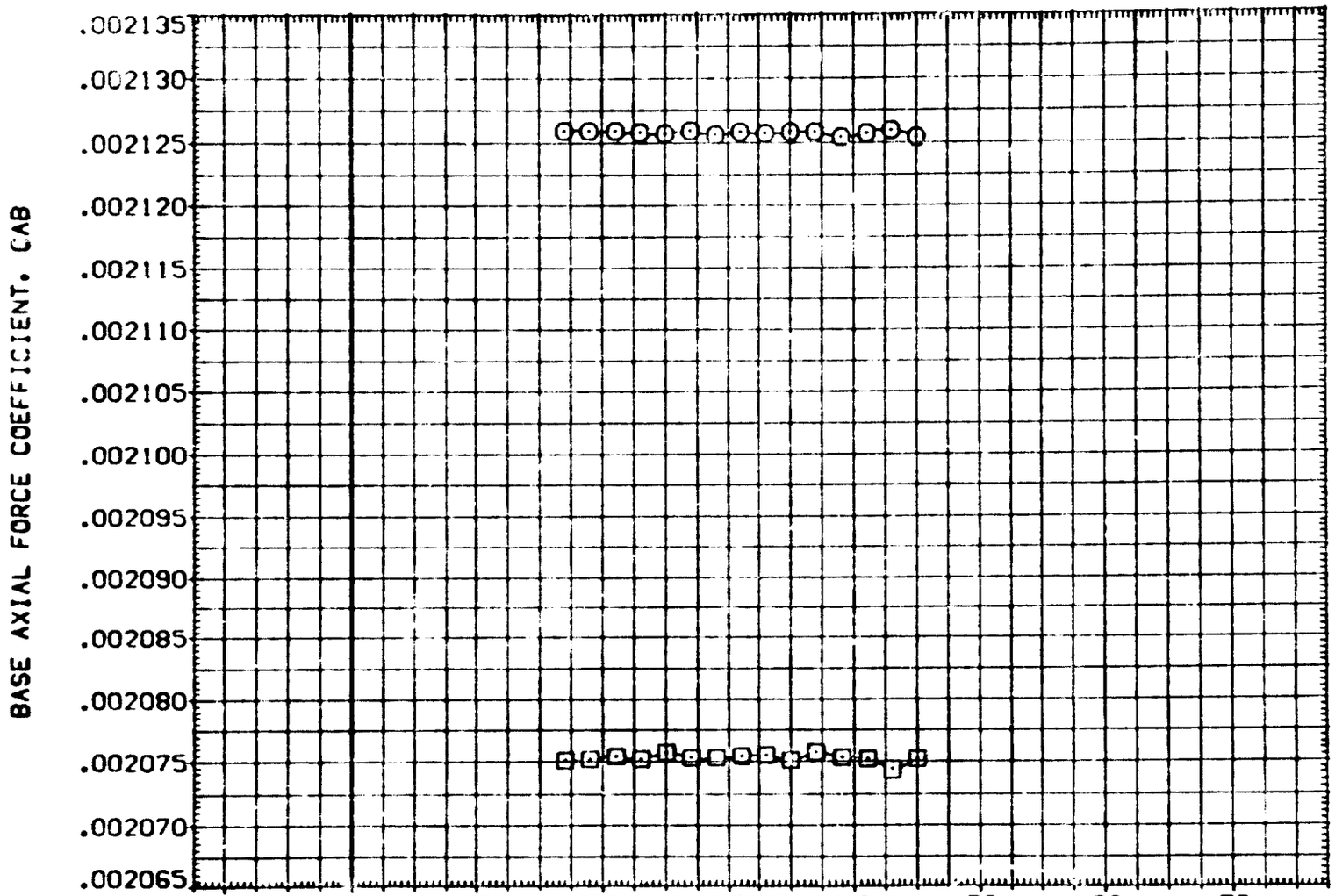


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(GTV015)	0A79 826 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(GTV042)	0A79 826 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN./B
SCALE	.0150	

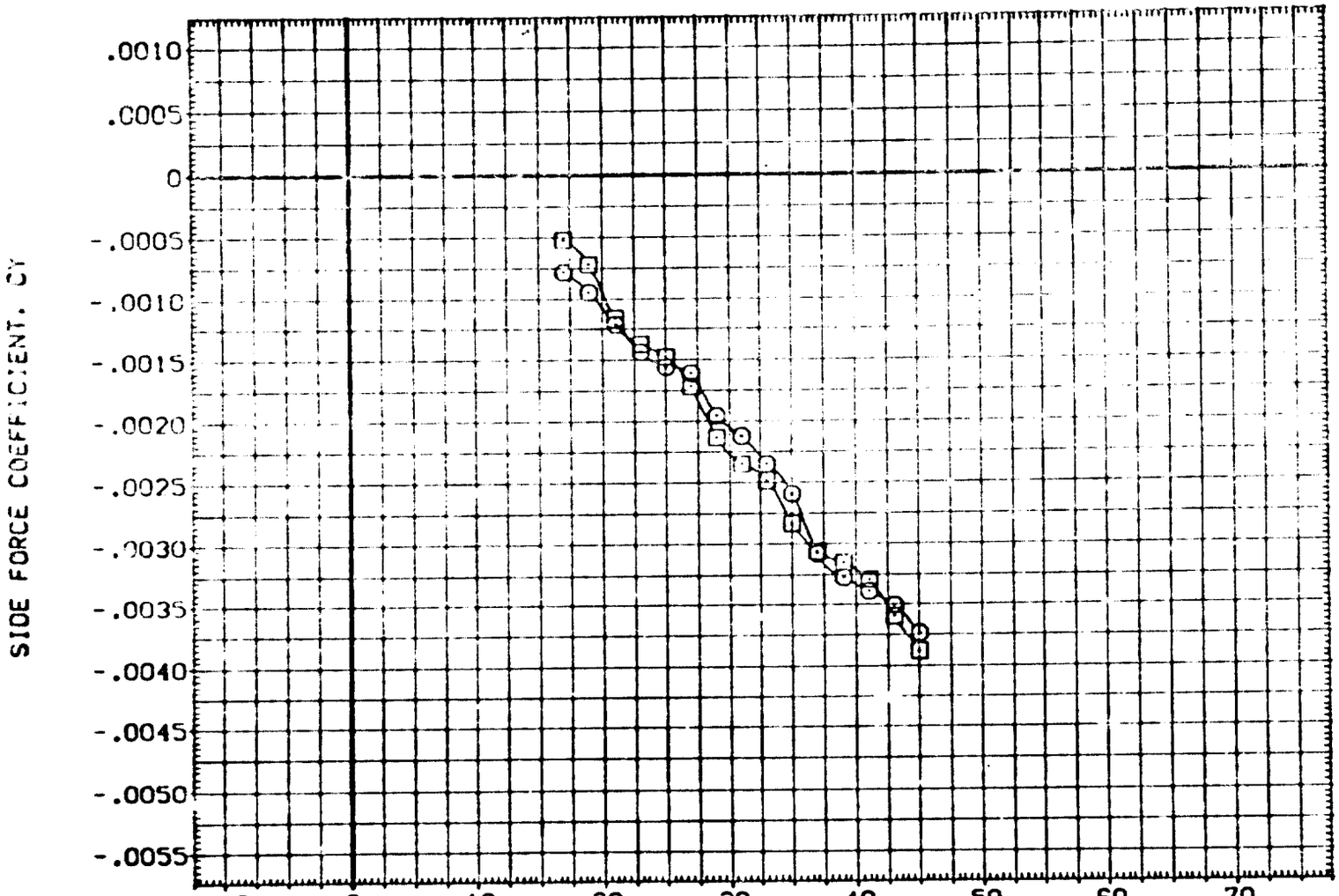


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(HTV015)		BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.000
(HTV042)		BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

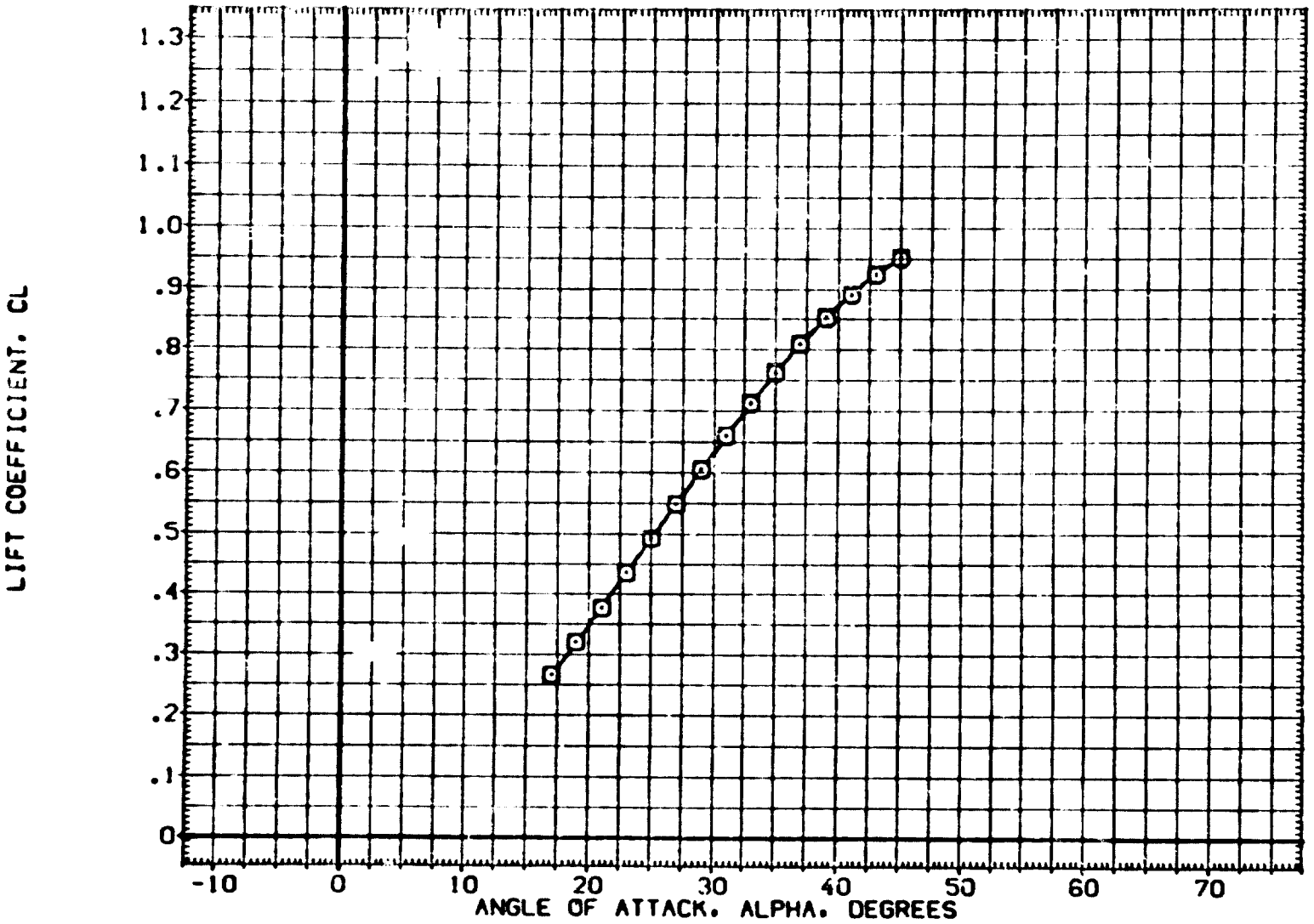


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	EL-GAP
(HTV015)	8	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.000
(HTV012)	8	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	171.9:00	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

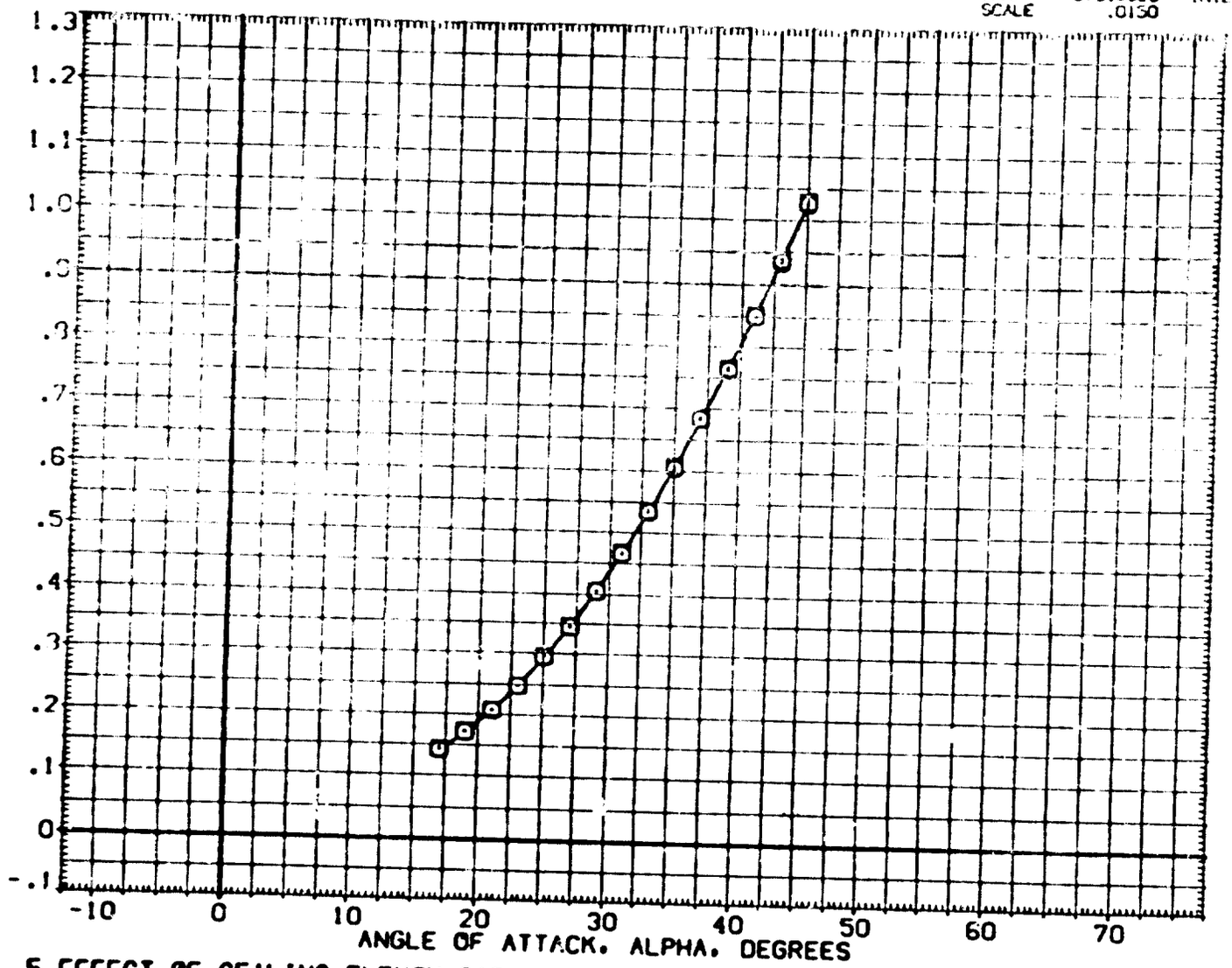


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(HTV015) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	1.000
(HTV042) □	0A79 B26 C9 E43 F8 M.6 N28 R5 V8 W16 SEALED GAP	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	471.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.015C	

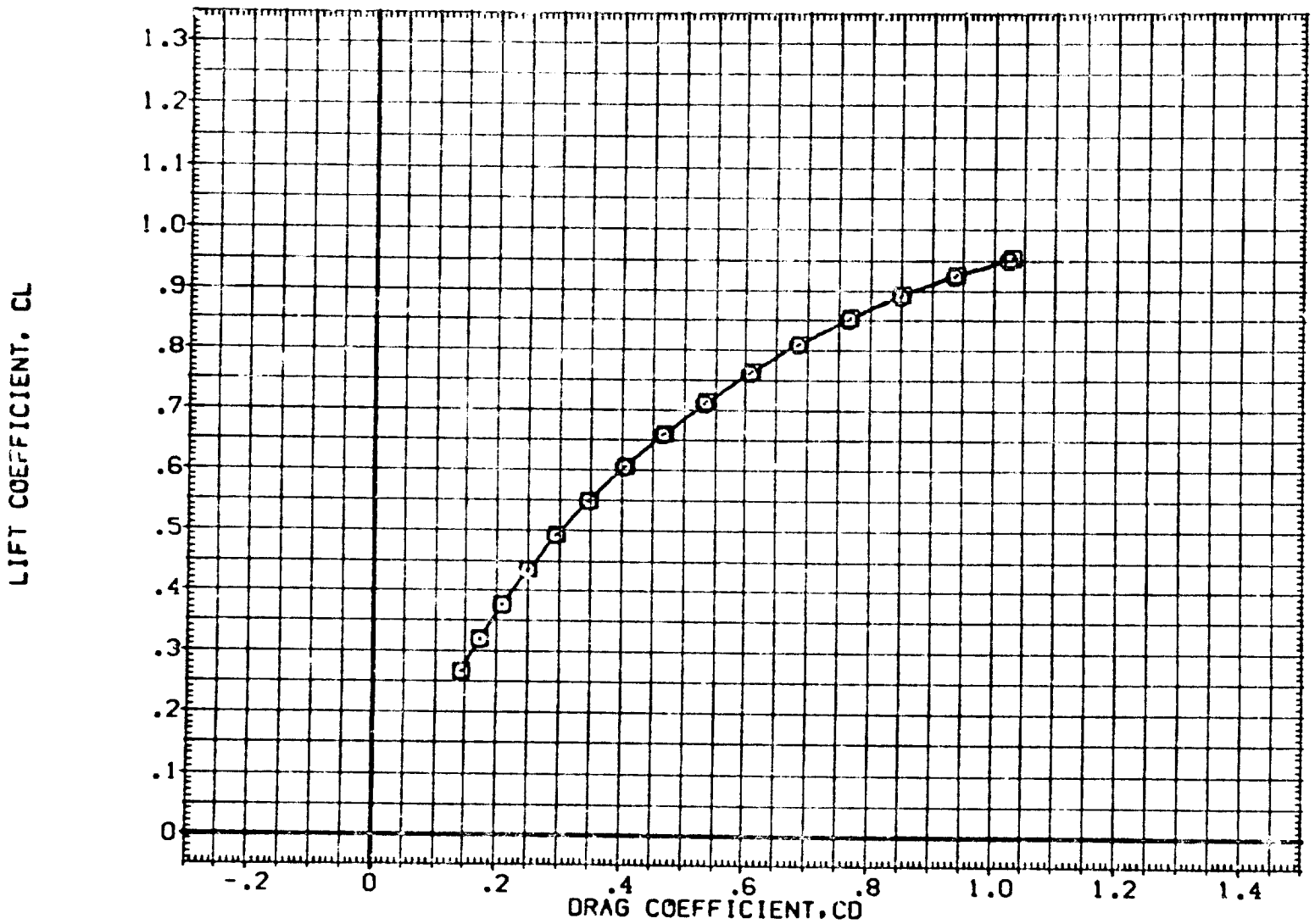


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	EL-GAP
(HTVG15)	8	GA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.000
(HTVO42)	8	GA79 B26 C9 E43 F8 H16 N28 R5 V8 V116 SEALED GAP	.000

REFERENCE INFORMATION

SREF	2830.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

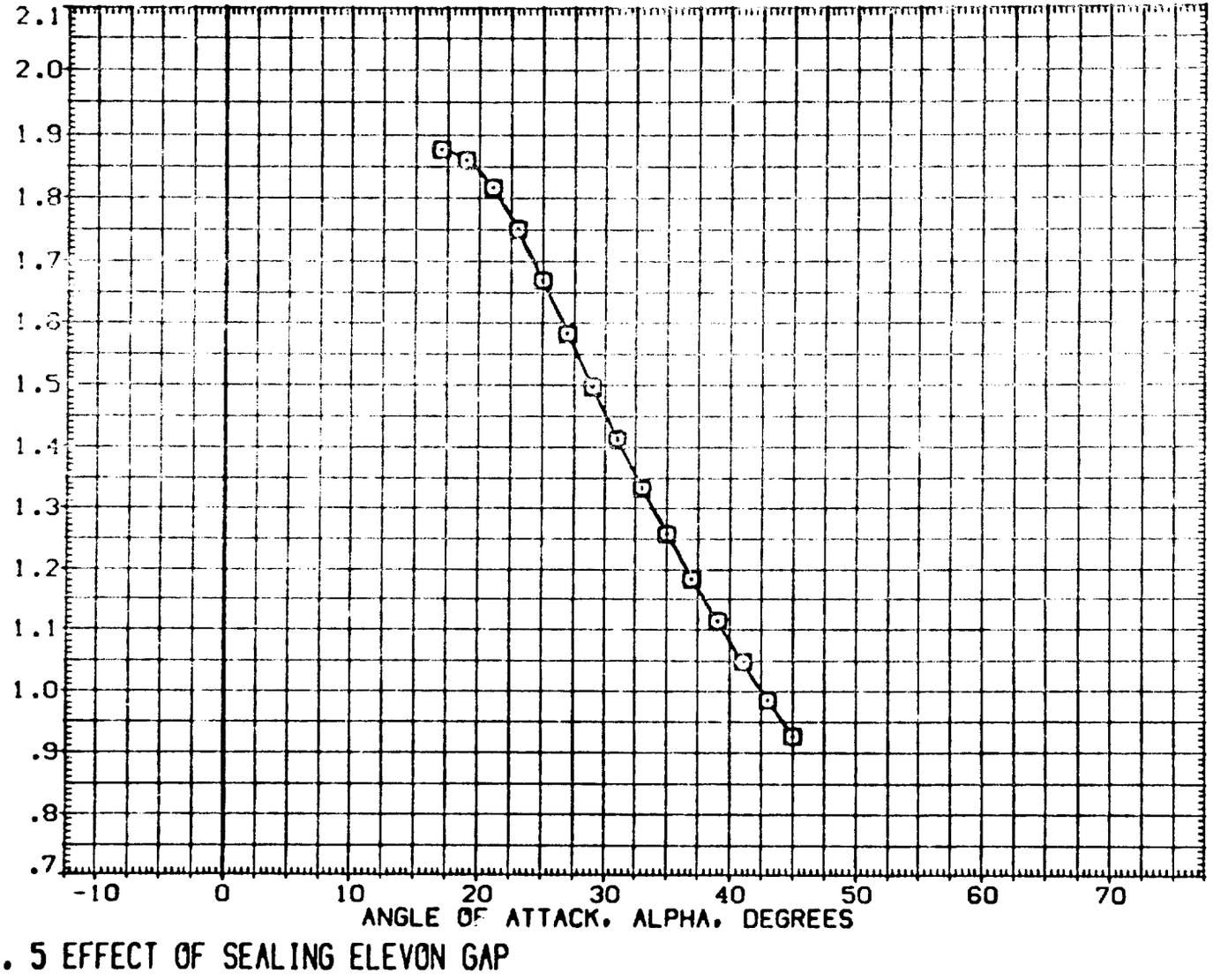


FIG. 5 EFFECT OF SEALING ELEVON GAP

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV025)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000
(CTV046)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-30.000	-30.000	-30.000	-30.000
(CTV015)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000
(CTV023)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000
(CTV001)		OA79 B26 C9 E43 F9 M16 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

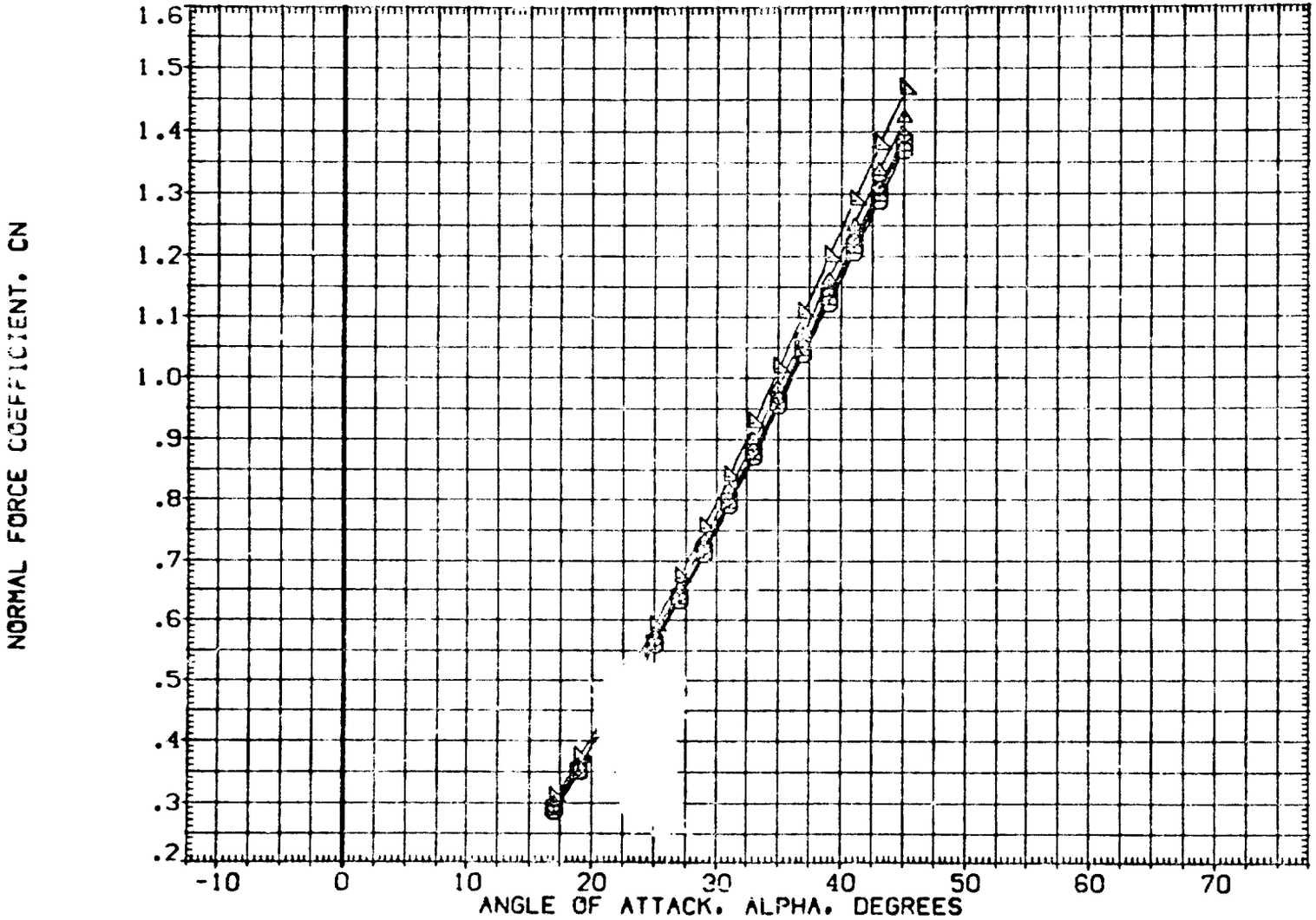


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

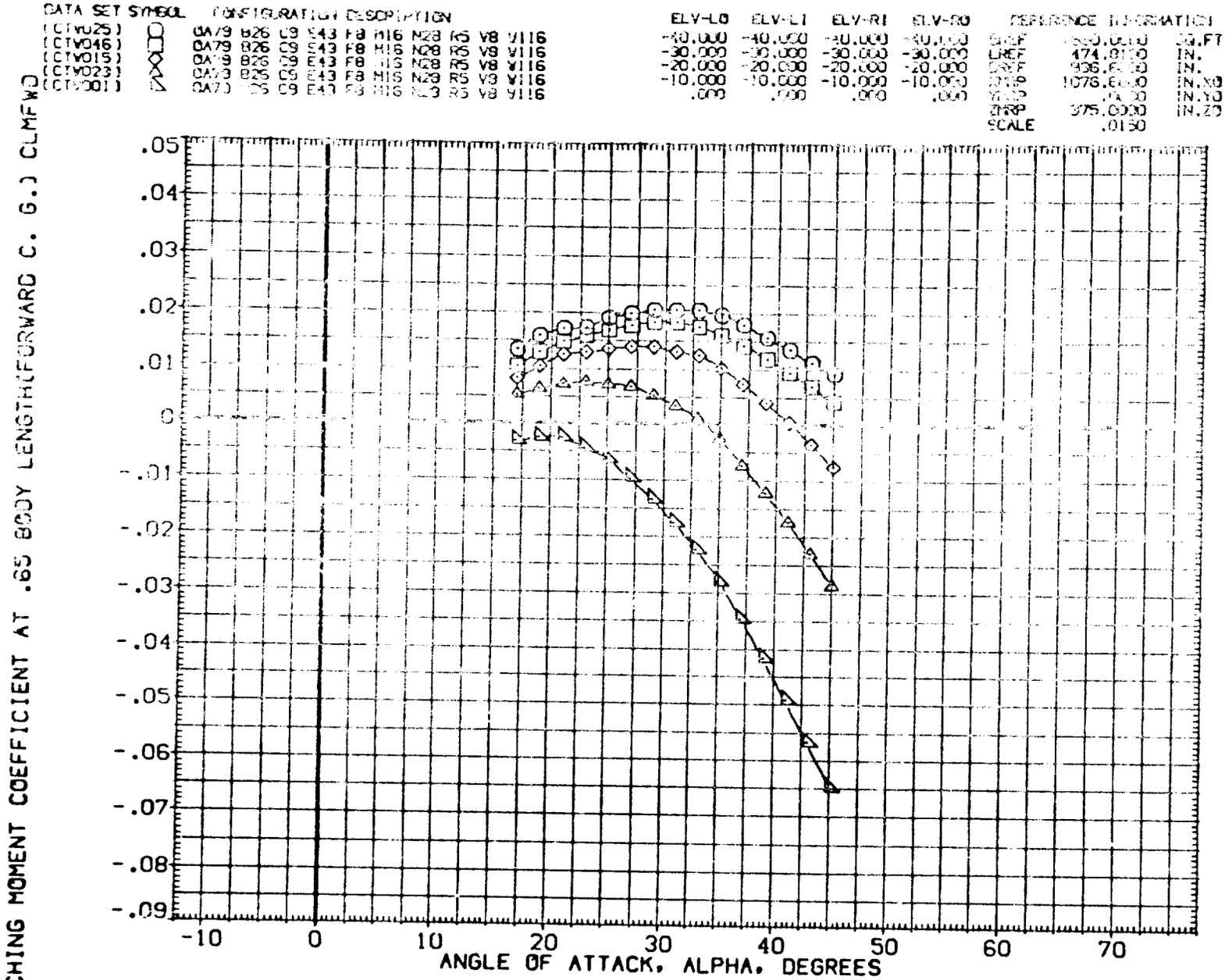


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(C1W025)	□	0A79 B26 C9 E43 F8 M 6 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000
(C1W046)	◇	0A79 B26 C9 E43 F8 M.6 N28 R5 V8 W116	-30.000	-30.000	-30.000	-30.000
(C1W015)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000
(C1W023)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000
(C1W001)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

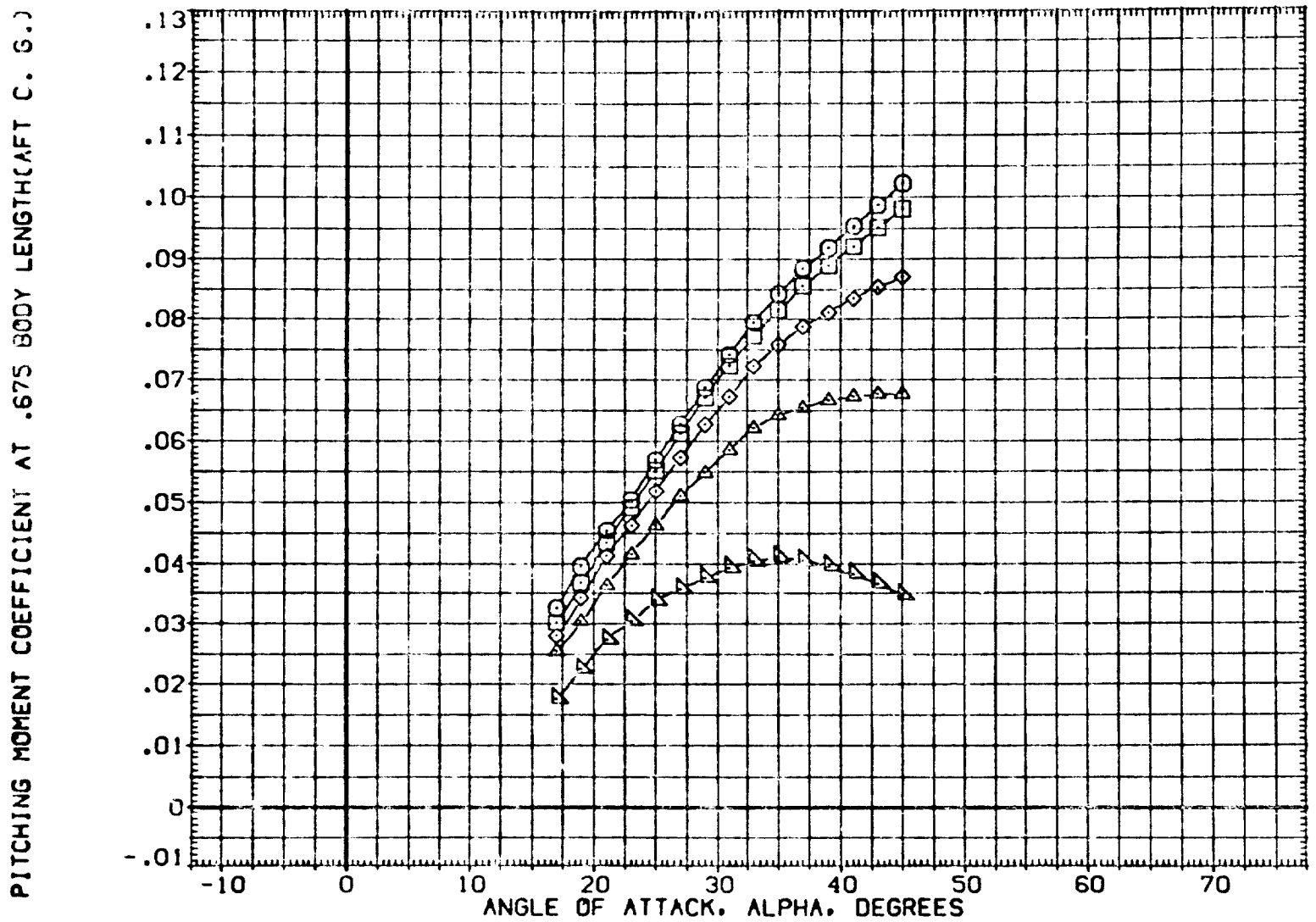


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV025)		BA79 B25 C9 E43 F8 M16 N28 R5 V8 V116
(CTV046)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV015)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV023)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV001)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-40.000	-40.000	-40.000	-40.000
-30.000	-30.000	-30.000	-30.000
-20.000	-20.000	-20.000	-20.000
-10.000	-10.000	-10.000	-10.000
.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	3890.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6400	IN.
XMRP	1076.0000	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

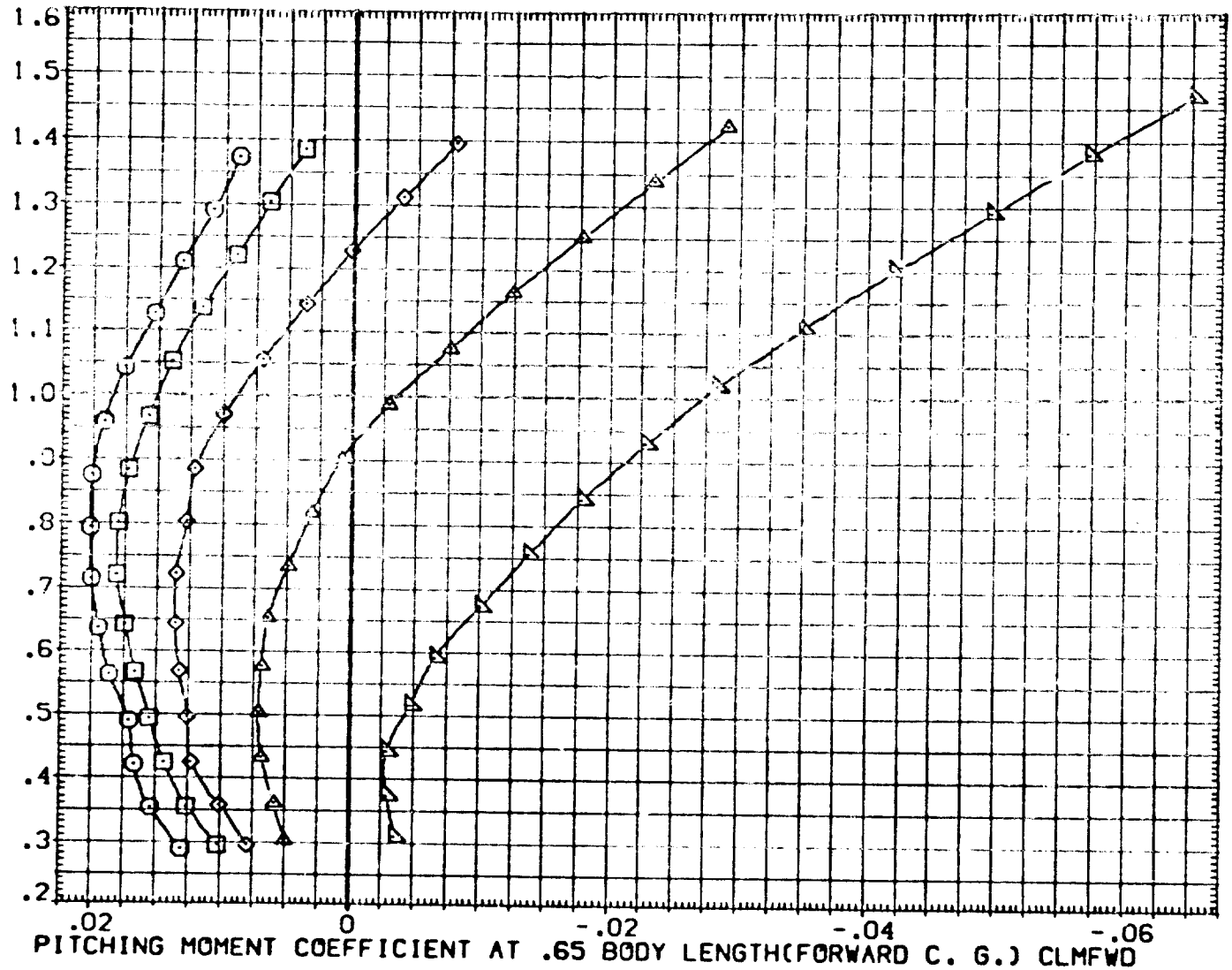


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(OTW020)	○	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(OTW046)	□	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(OTW015)	◇	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(OTW033)	△	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(OTW001)	▽	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-40.000	-40.000	-40.000	-40.000
-30.000	-30.000	-30.000	-30.000
-20.000	-20.000	-20.000	-20.000
-10.000	-10.000	-10.000	-10.000
.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2650.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

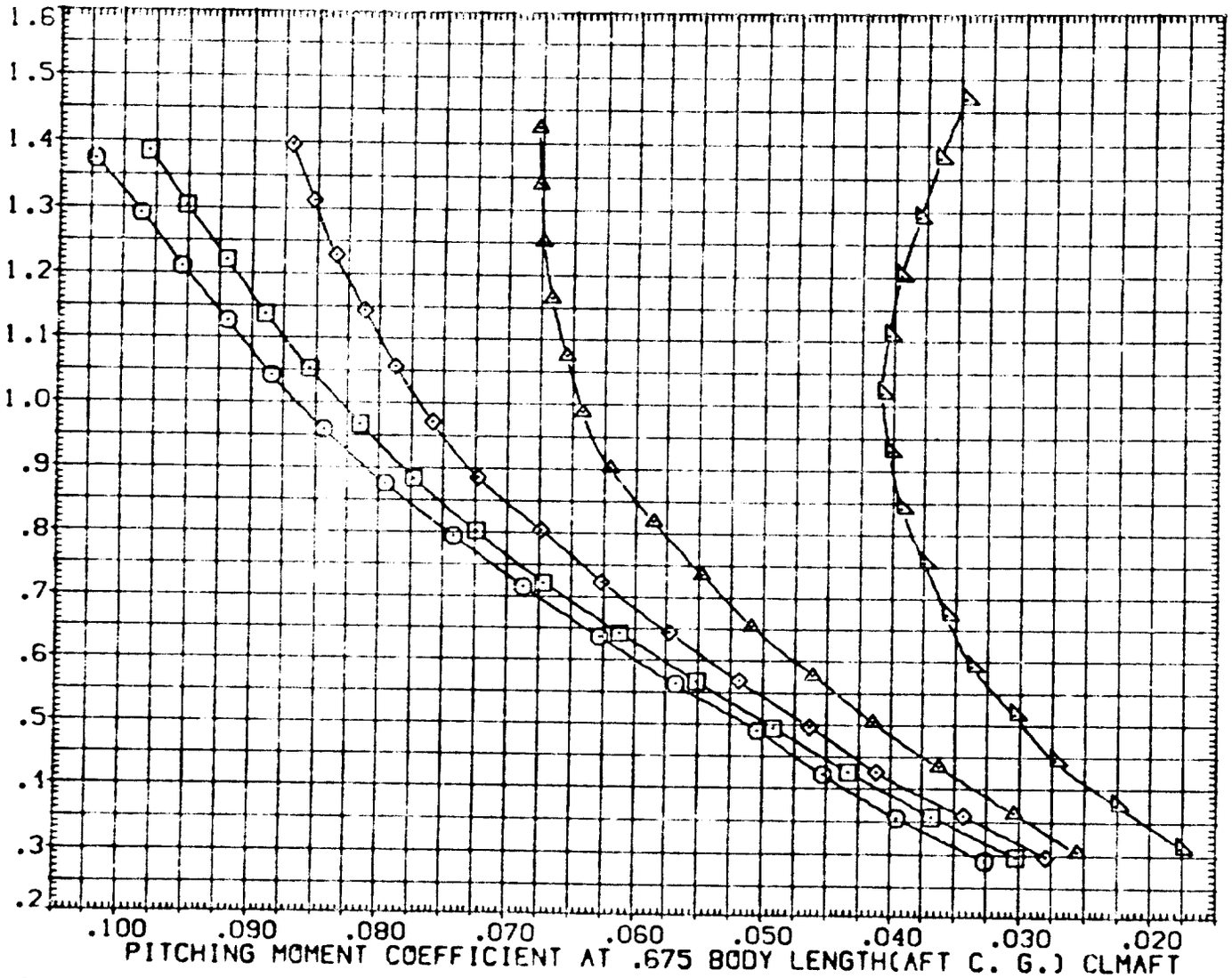


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

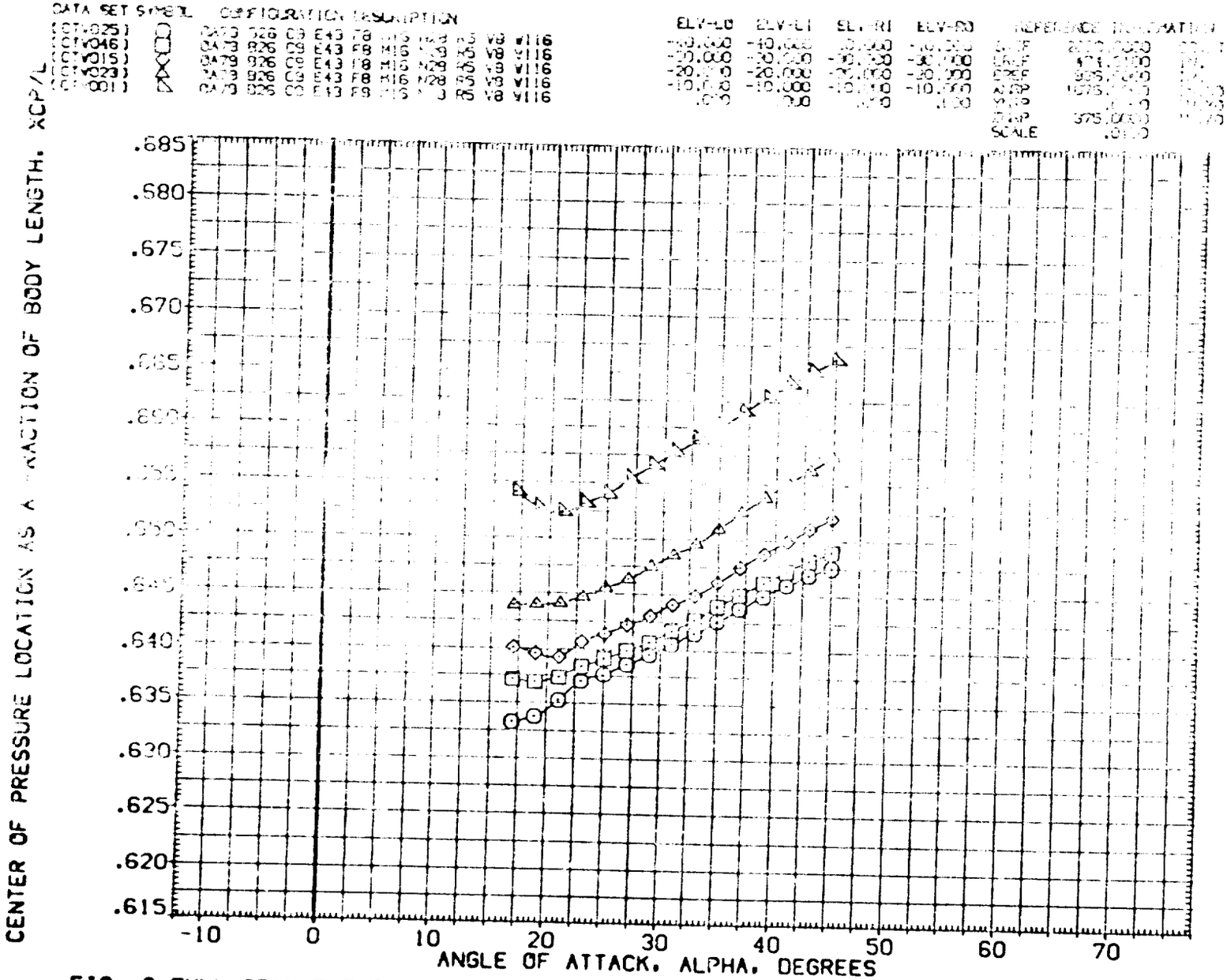


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV025)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000
(CTV046)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-30.000	-30.000	-30.000	-30.000
(CTV015)	△	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000
(CTV023)	⊗	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000
(CTV001)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6600	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

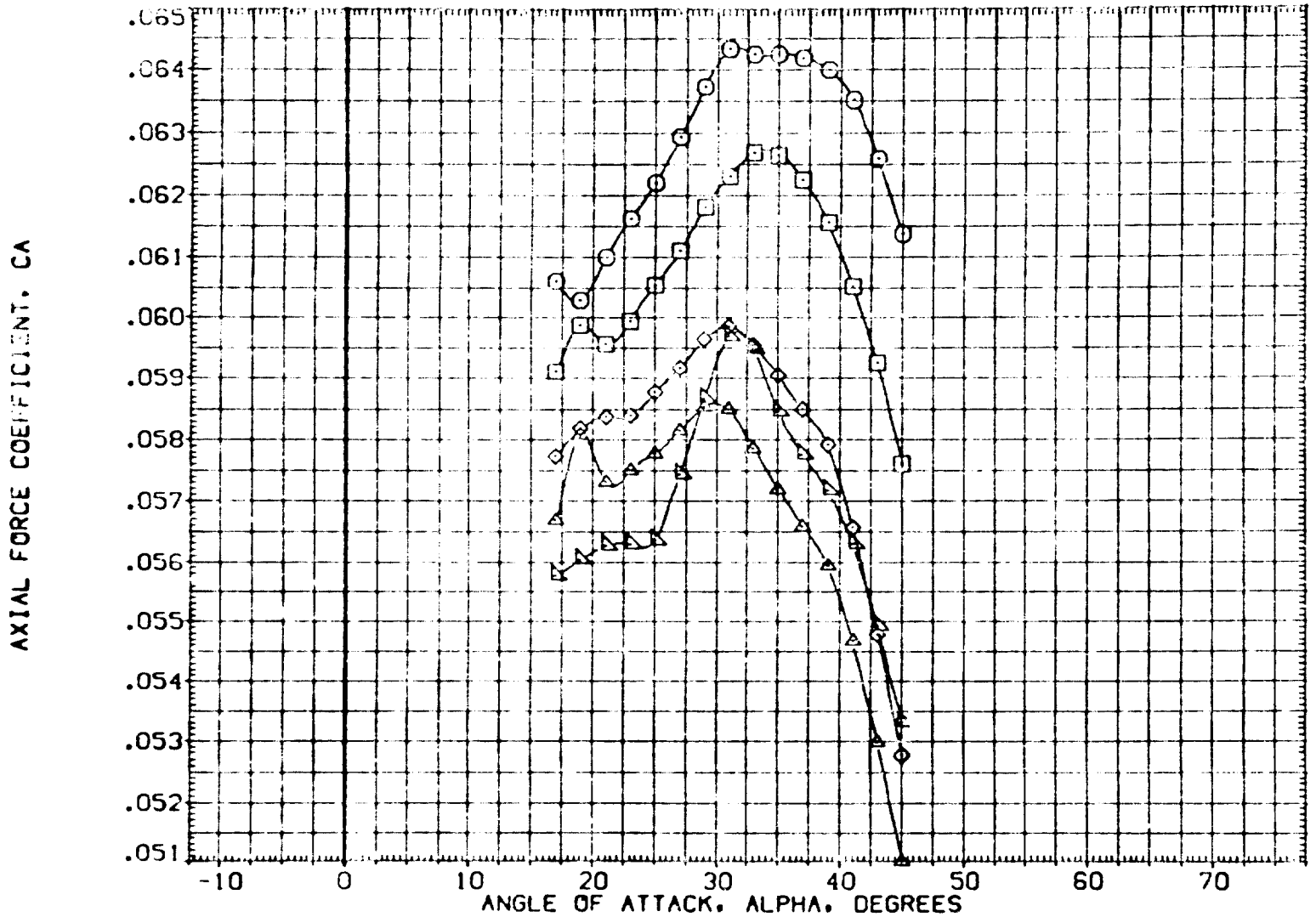


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

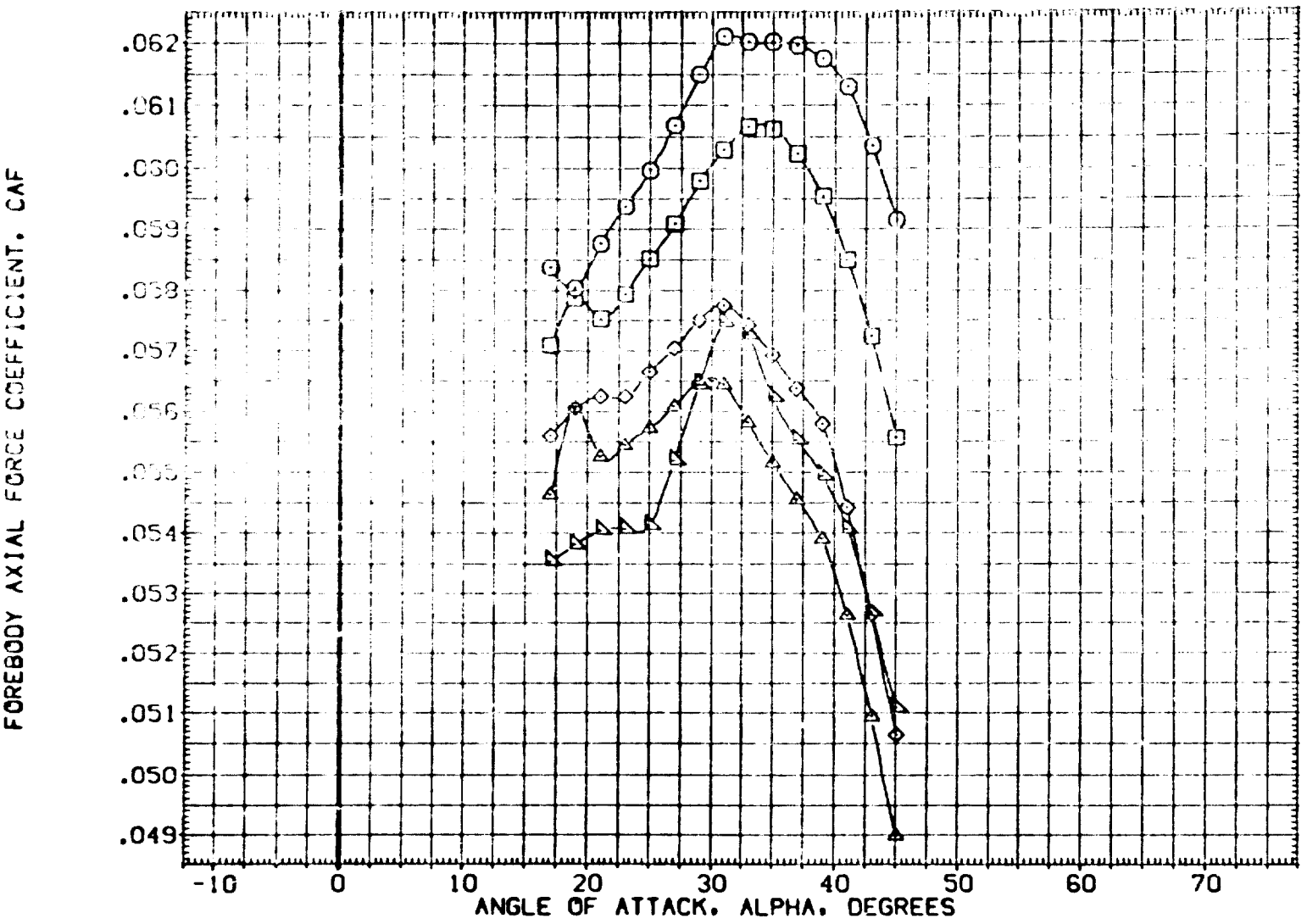


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(C1V025)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-40.000	-40.000	-40.000	-40.000
(C1V046)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-30.000	-30.000	-30.000	-30.000
(C1V015)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000
(C1V023)	▷	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000
(C1V001)	⬠	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

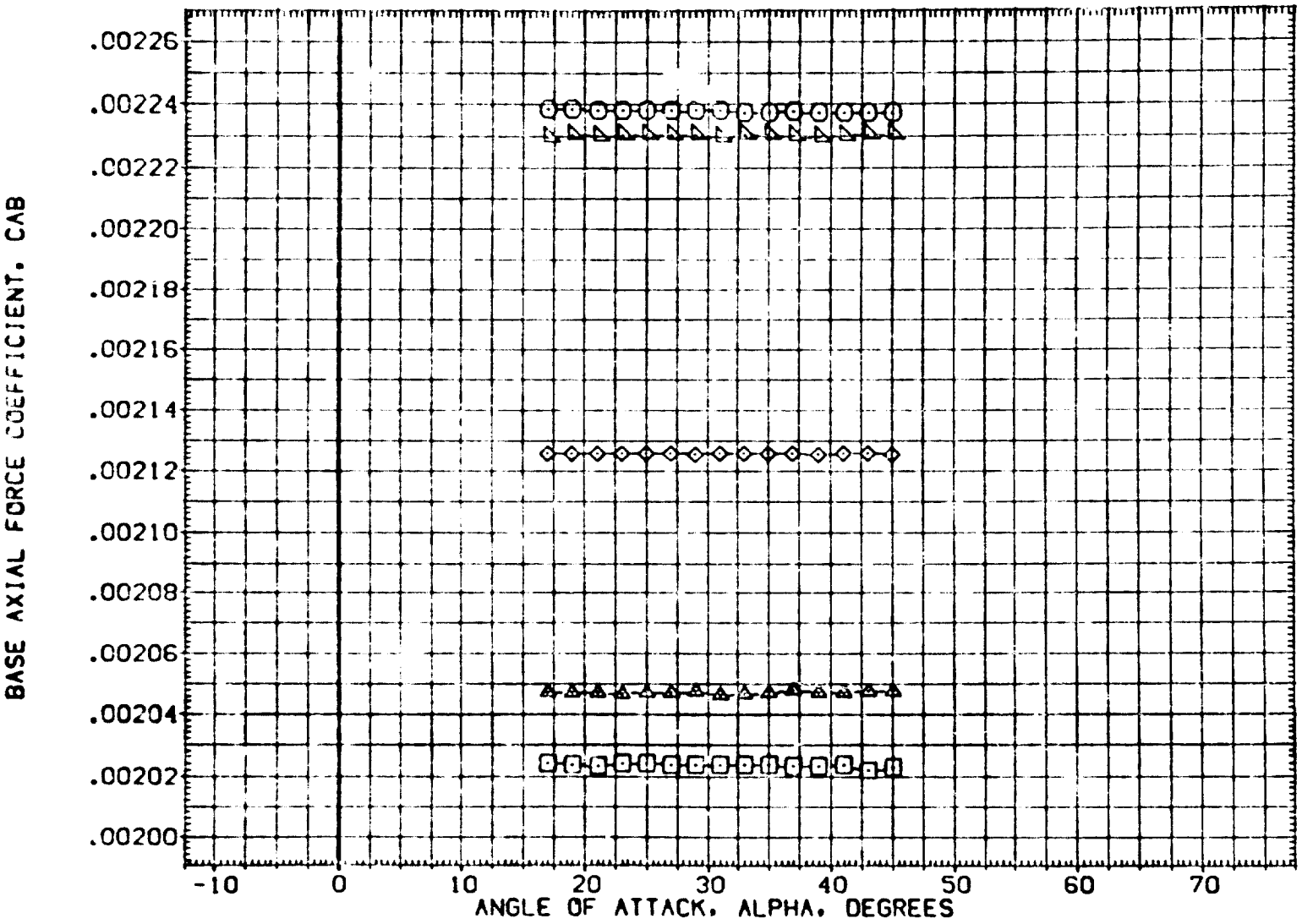


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

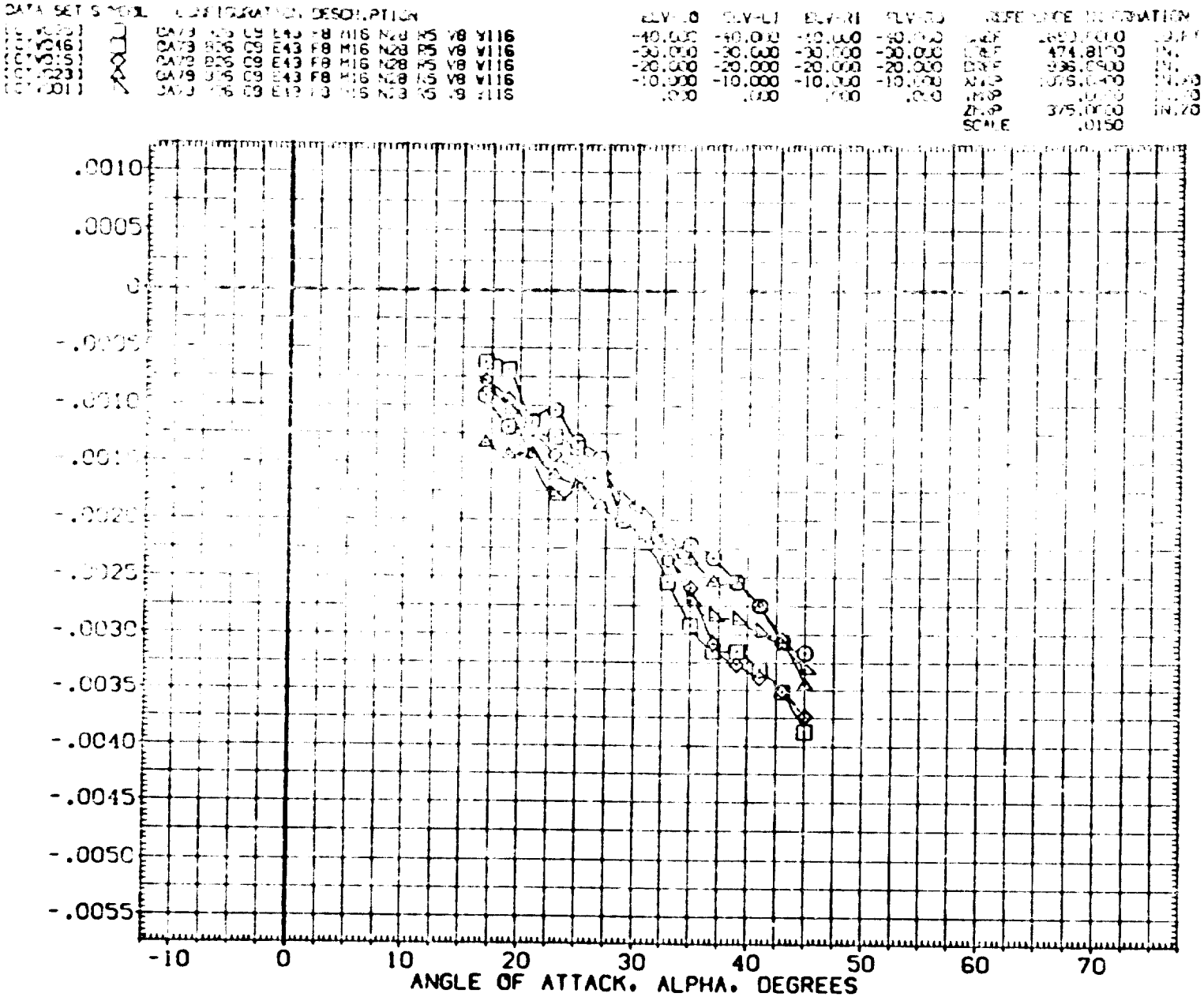


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

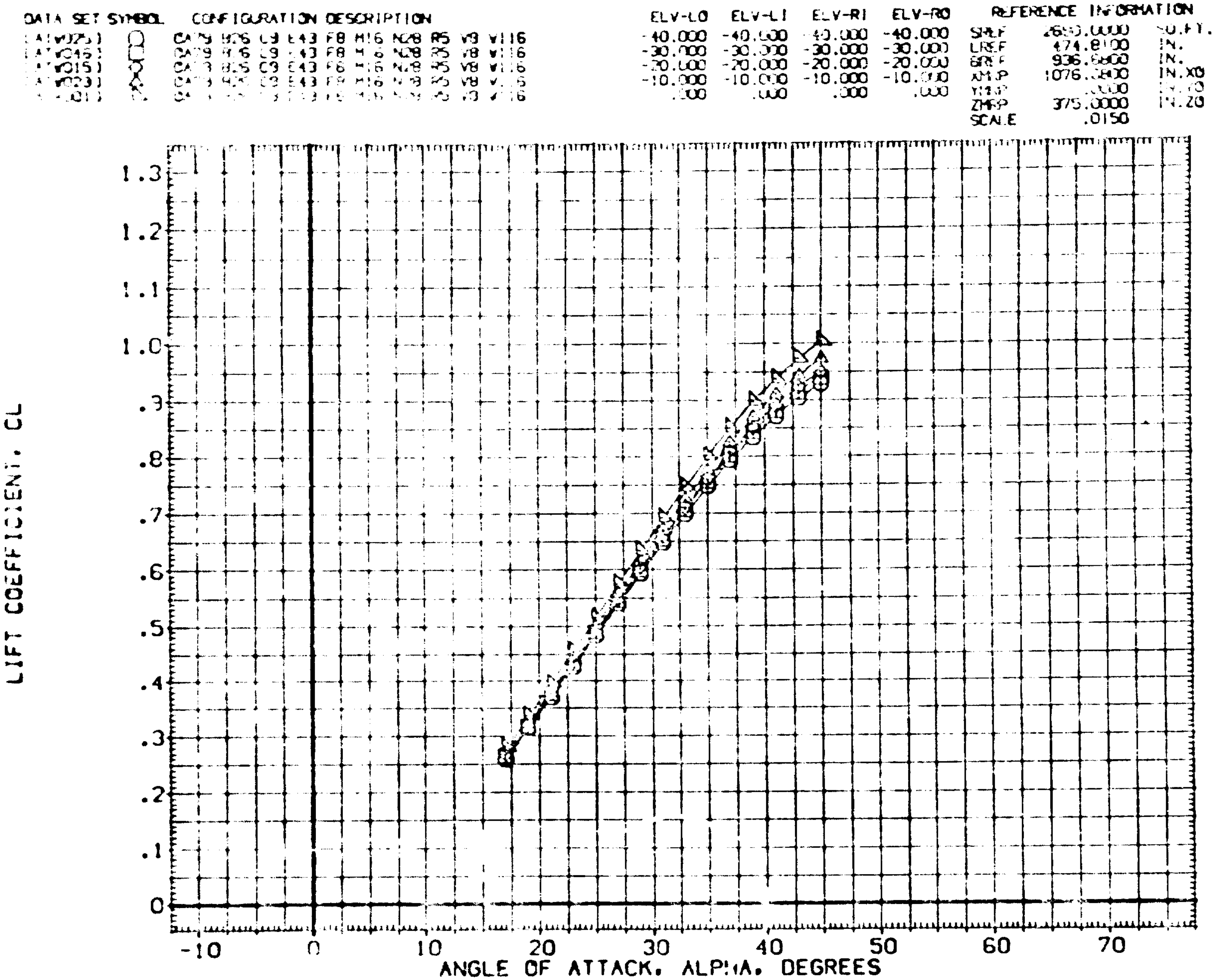


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(A)4029	○	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-40.000	-40.000	-40.000	40.000
(A)5015	⊠	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-30.000	-30.000	-30.000	-30.000
(A)5023	⊗	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-20.000	-20.000	-20.000	-20.000
(A)5001	△	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-10.000	-10.000	-10.000	-10.000
			.000	.000	.000	.000

REFERENCE INFORMATION

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	985.[illegible]0	IN.
[illegible]	1076.[illegible]00	IN.
[illegible]	.0000	IN.
[illegible]	405.0[illegible]	IN.
SCALE	.0150	

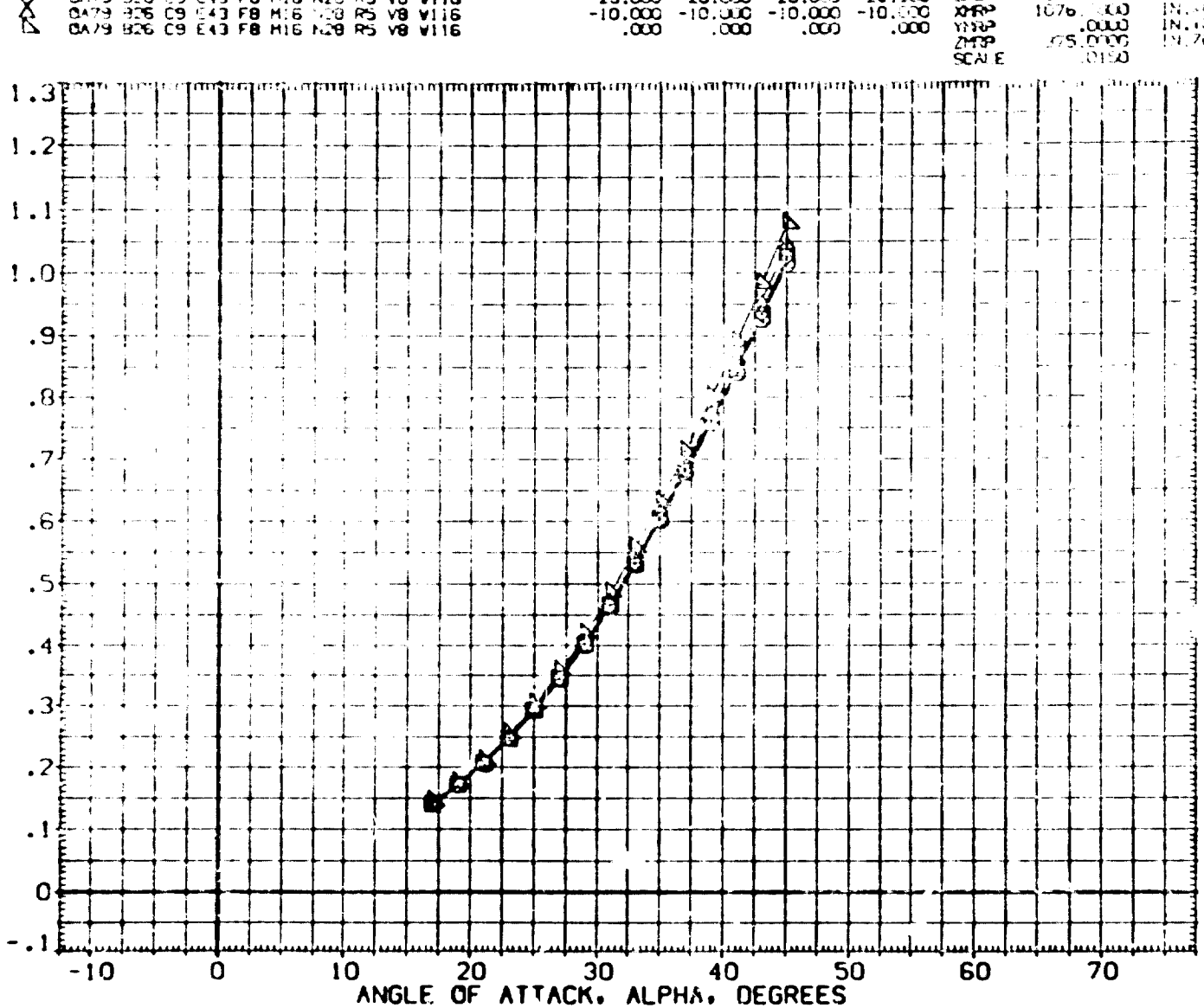


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATW025)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-40.000	-40.000	-40.000	-40.000
(ATW045)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-30.000	-30.000	-30.000	-30.000
(ATW015)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	-20.000	-20.000	-20.000
(ATW023)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	-10.000	-10.000
(ATW001)	▷	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0.50	

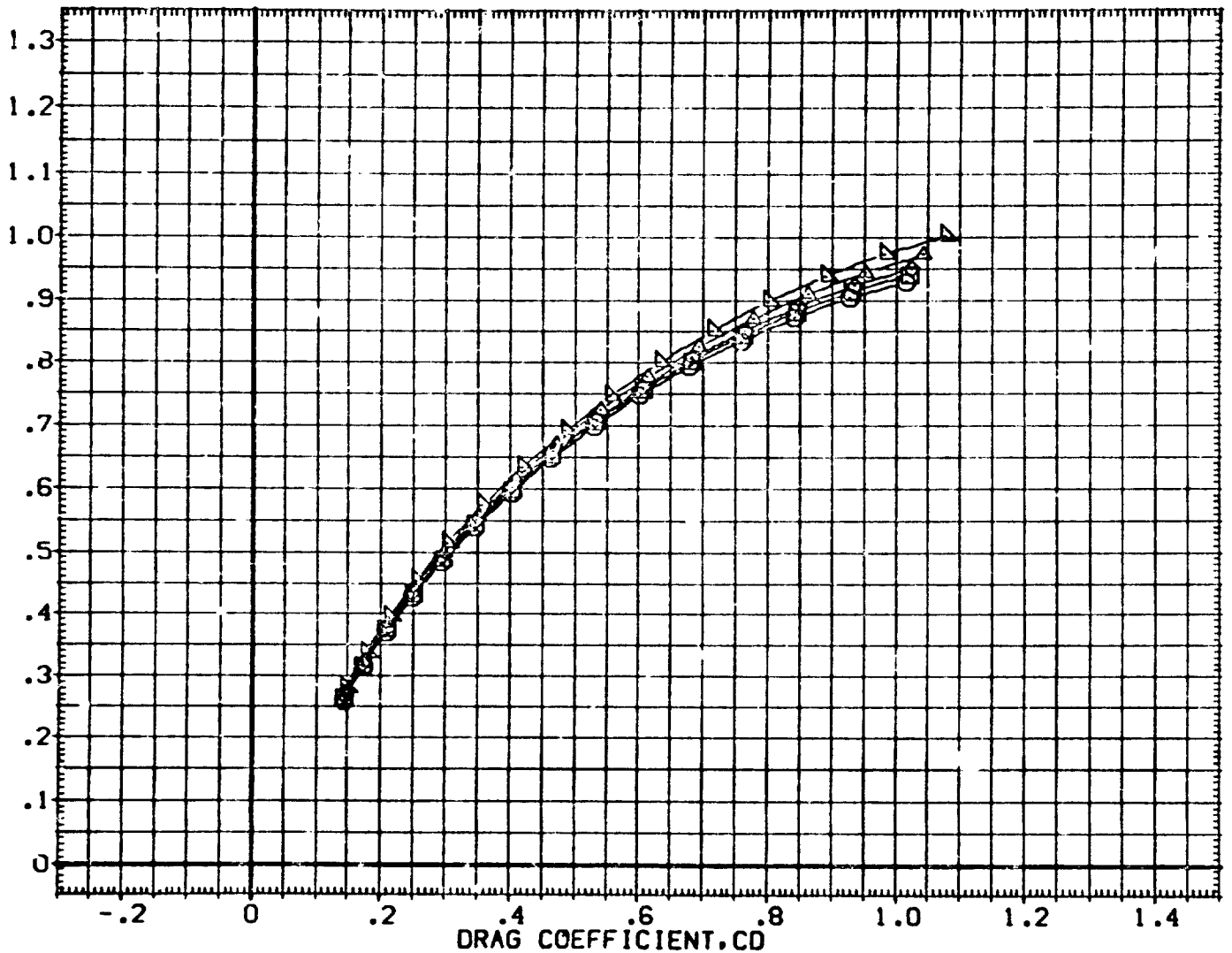


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW025)	□	OA79 B2E C9 E43 F8 M16 N28 R5 V8 W116
(ATW046)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATW015)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATW023)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATW001)	▷	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV RI	ELV RO
-40.000	-40.000	-40.000	-40.000
-30.000	-30.000	-30.000	-30.000
-20.000	-20.000	-20.000	-20.000
-10.000	-10.000	-10.000	-10.000
.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6000	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

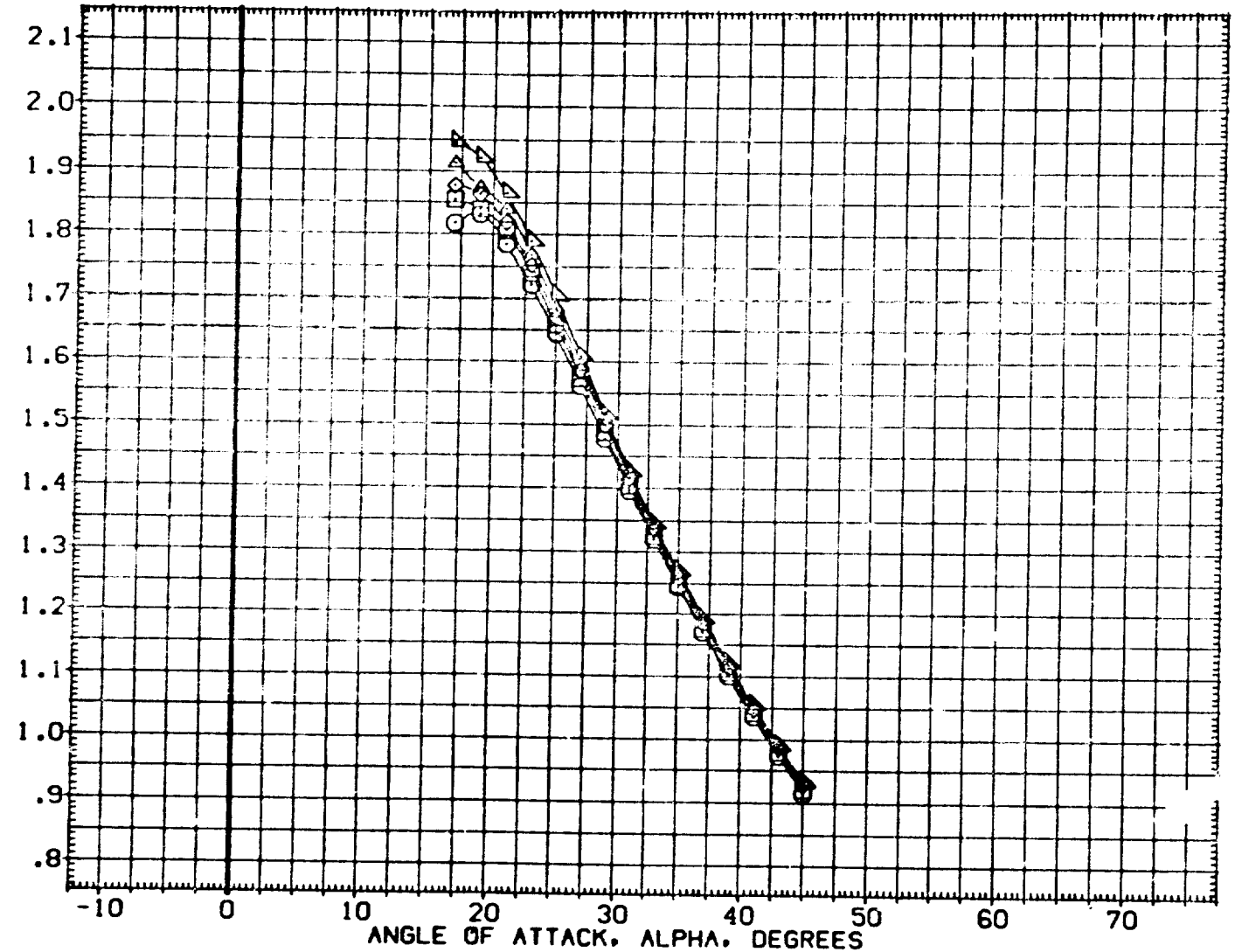


FIG. 6 FULL SPAN ELEVON EFFECTIVENESS (NEGATIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CT,V001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CT,V017)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	10.000	10.000	10.000
(CT,V020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2650.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

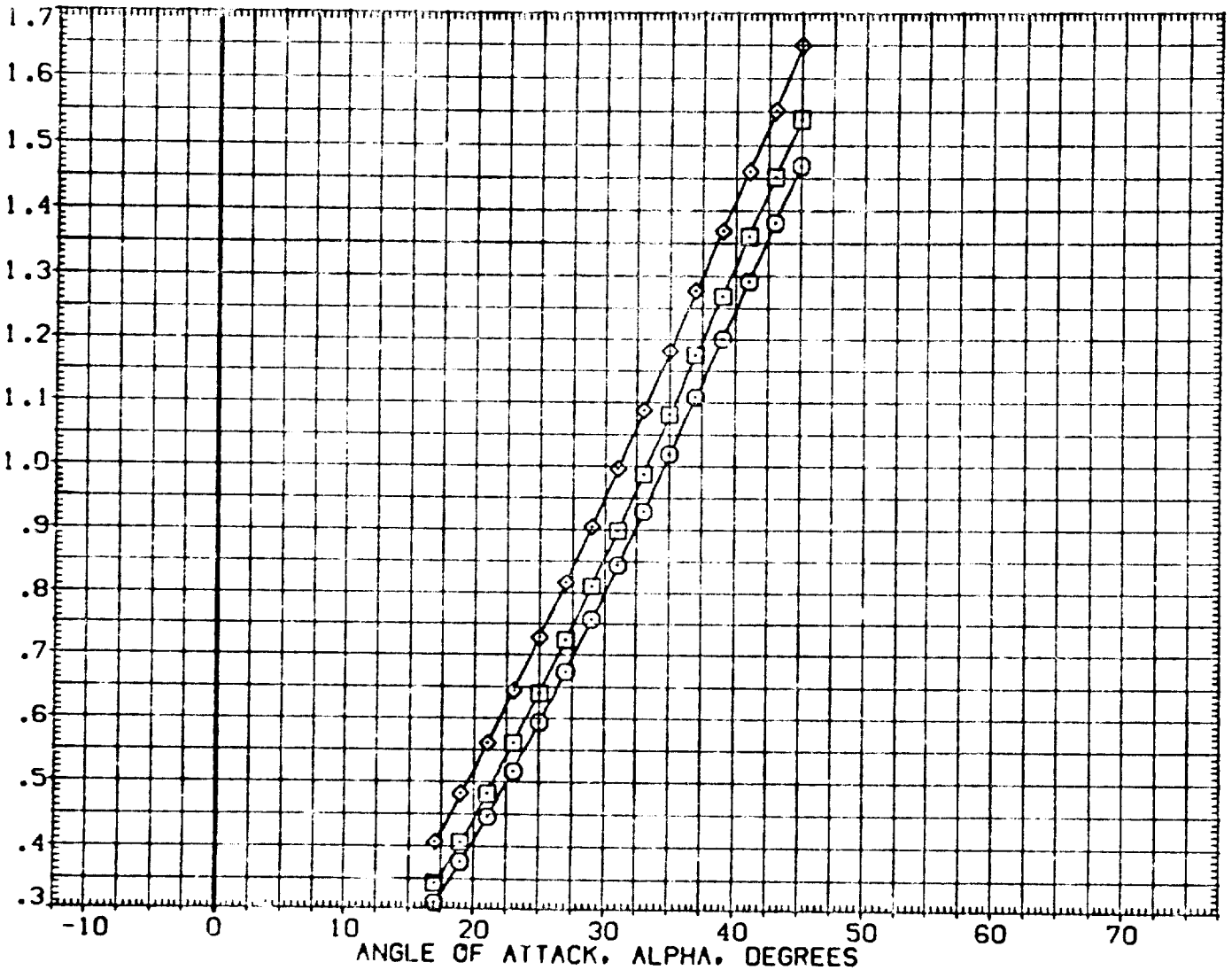


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV001) ○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV017) □	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W116	10.000	10.000	10.000	10.000
(CTV020) ◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION

SREF	2650.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

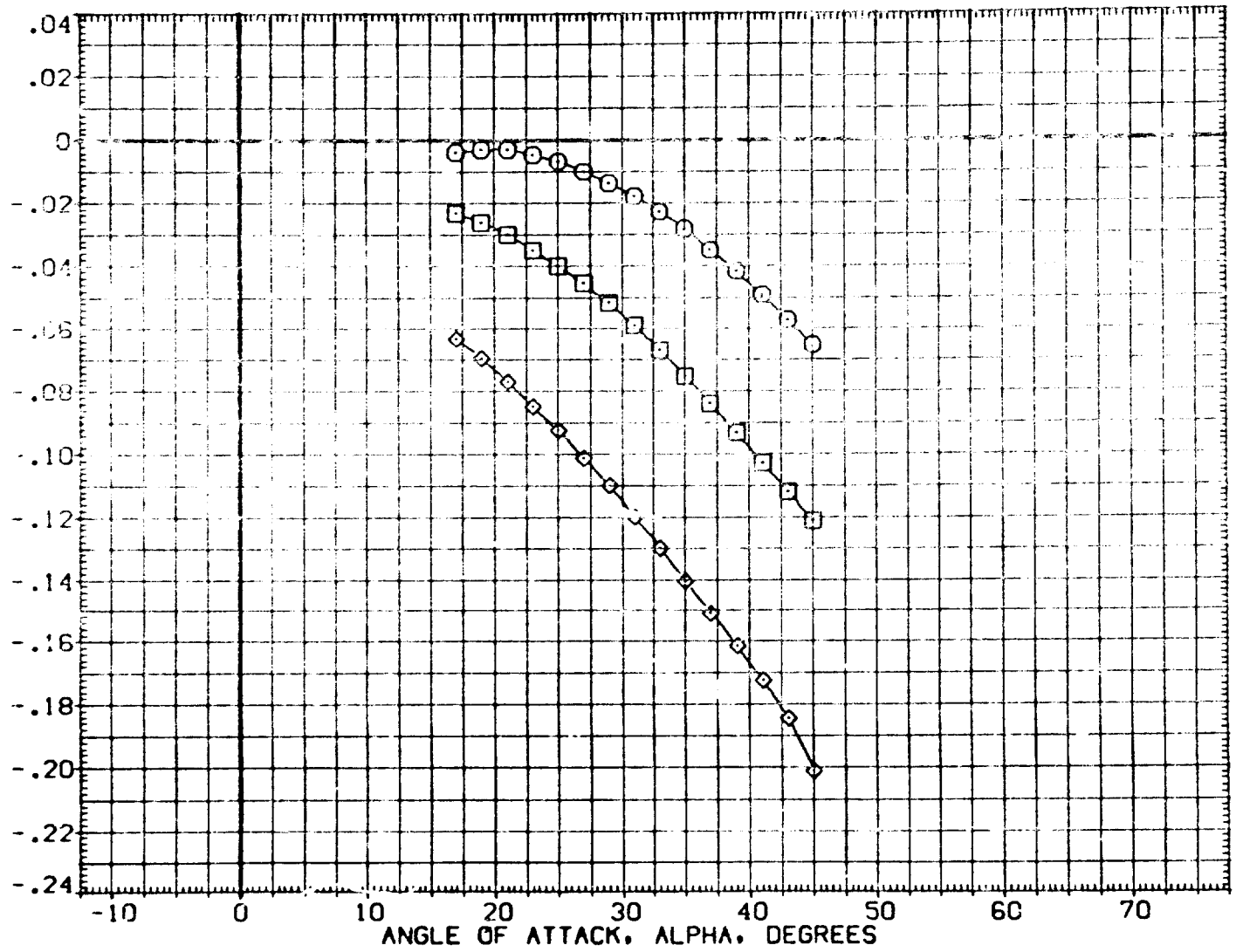


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTW001)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTW017)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	10.000	10.000	10.000
(CTW020)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

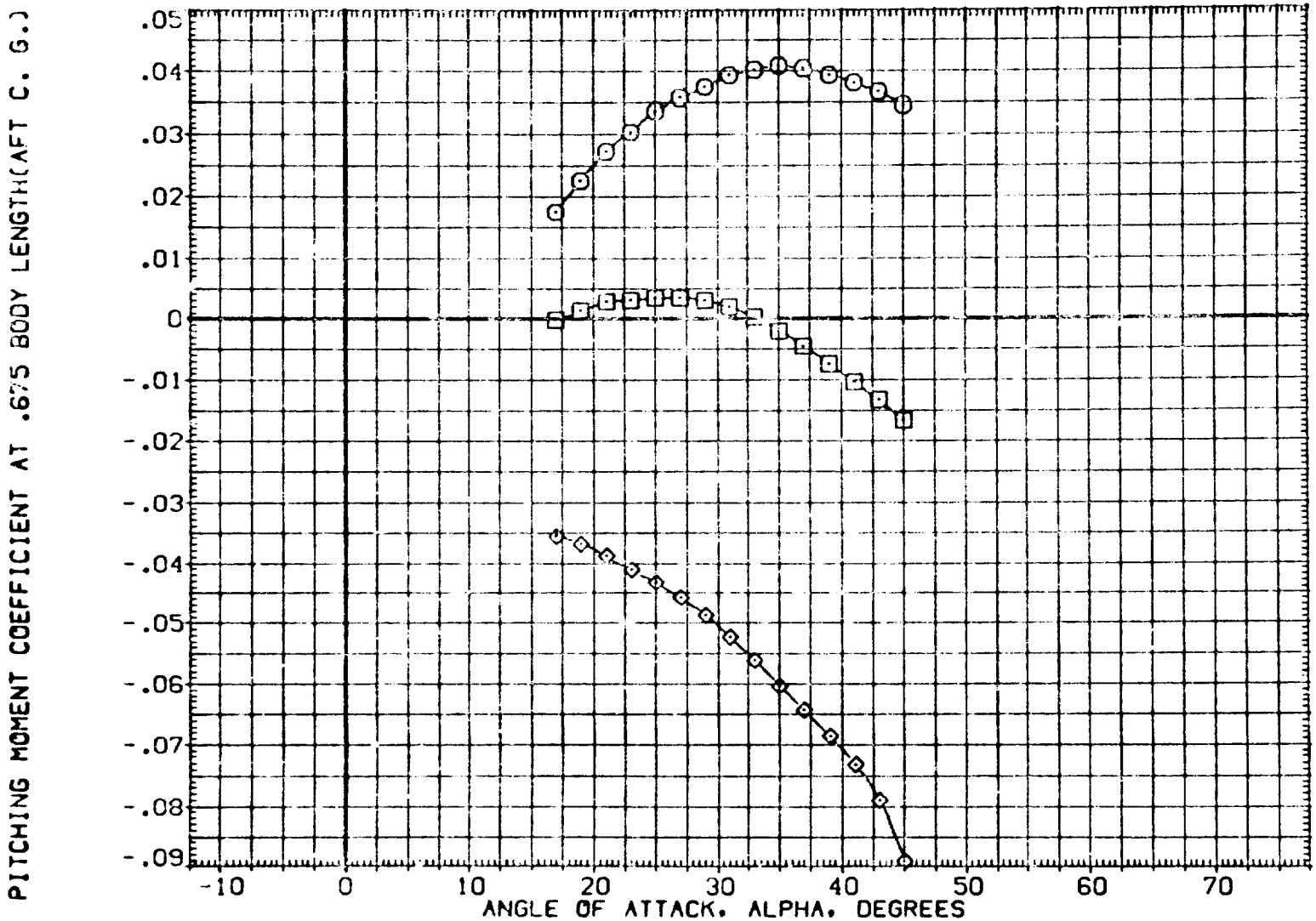


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV001) ▢	MA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV017) □	MA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV020) ◇	MA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
10.000	10.000	10.000	10.000
20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

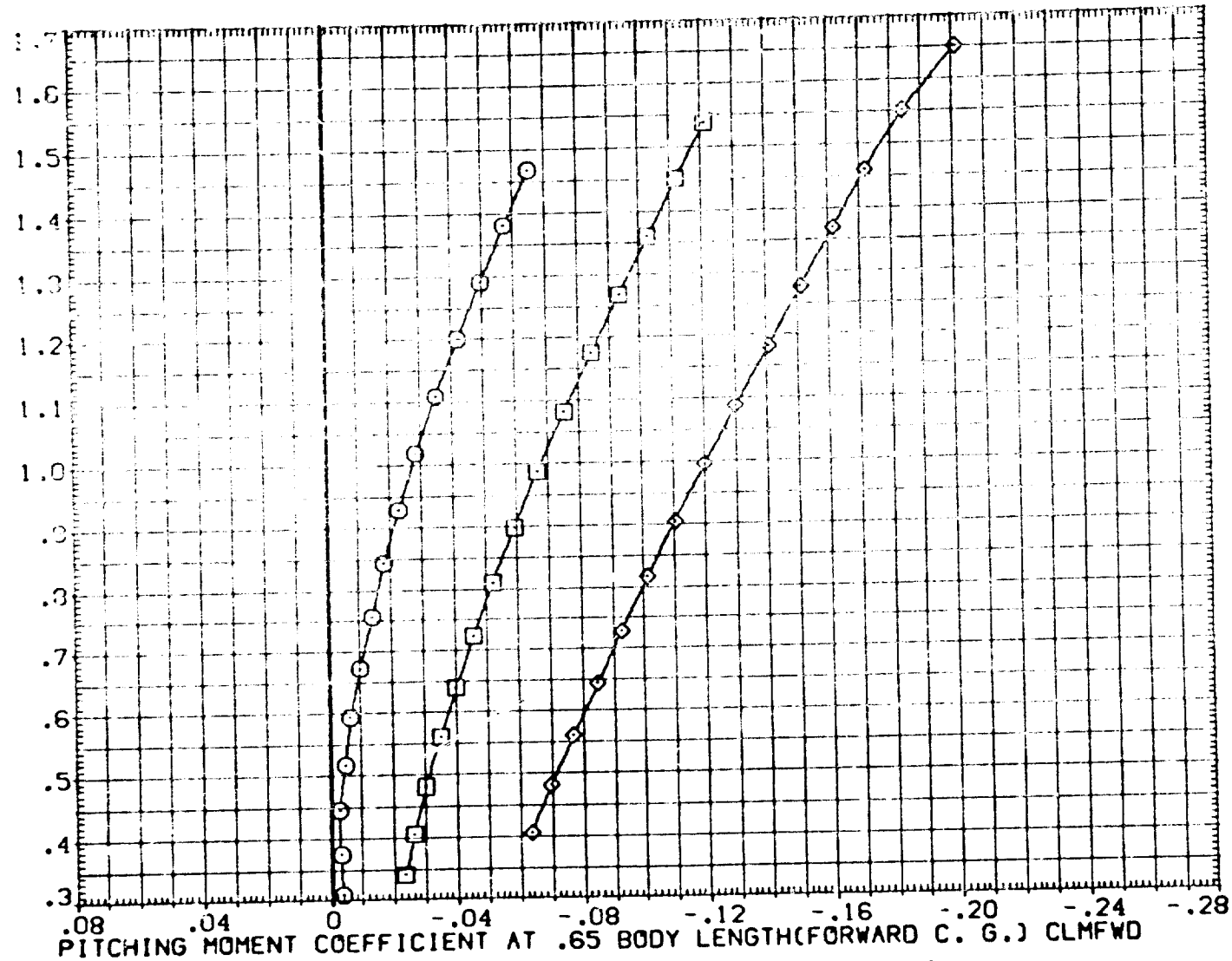


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV001)	○	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	.000	.000	.000
(CTV017)	□	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	10.000	10.000	10.000	10.000
(CTV020)	◇	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6600	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.01	

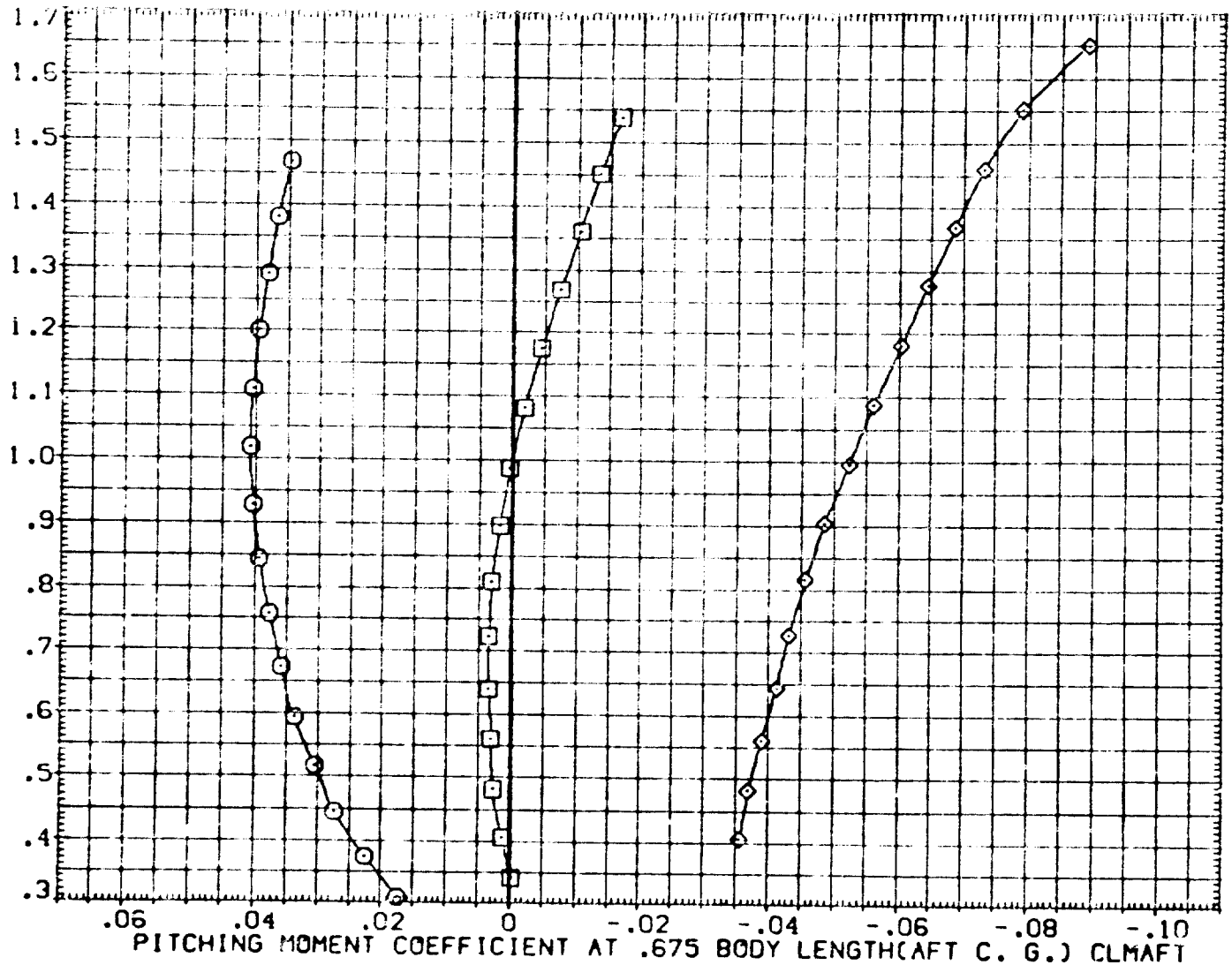


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV017)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	10.000	10.000	10.000
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION

SREF	3590.0000	SQ.FT.
LREF	474.6100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

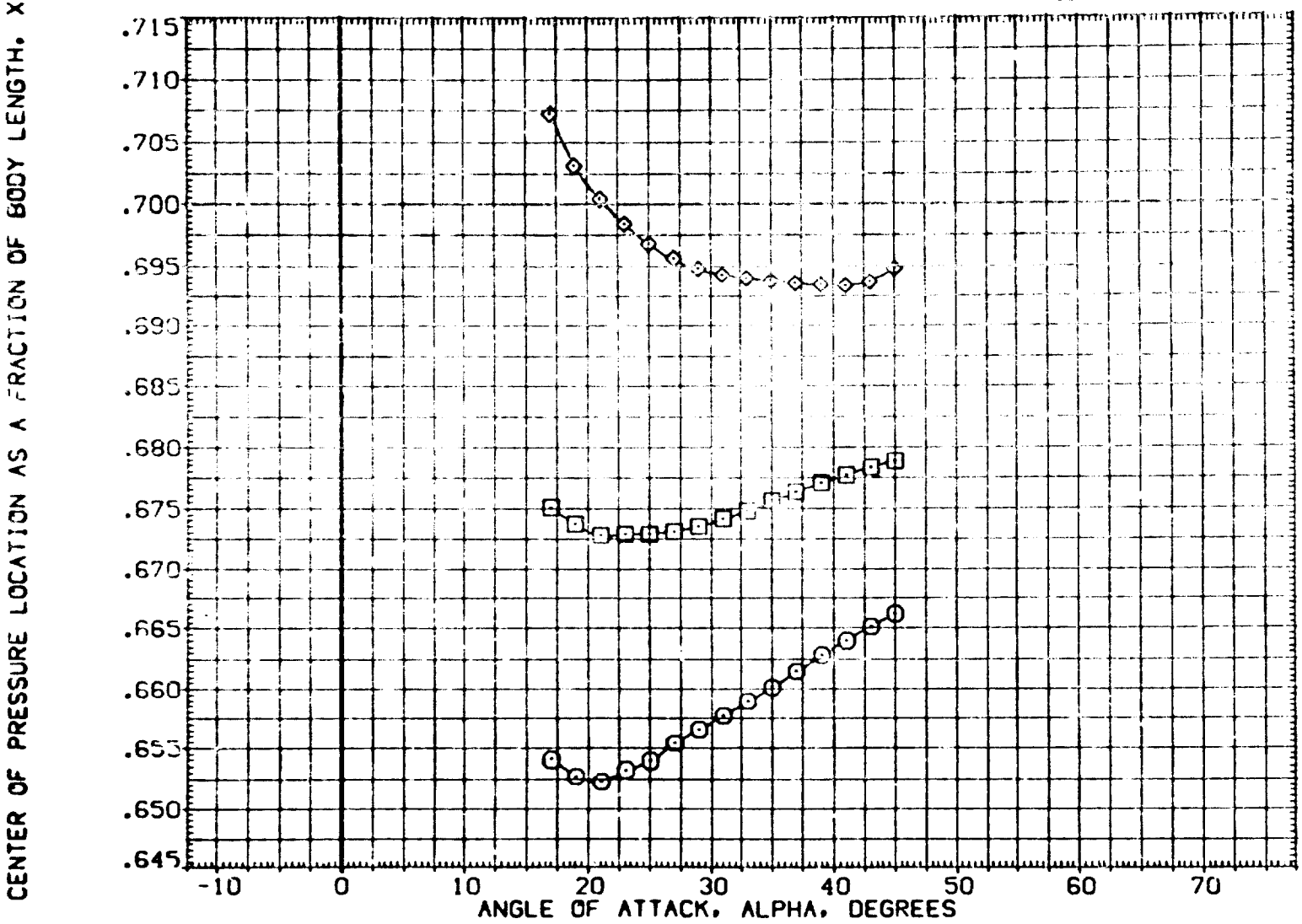


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTVC[illegible])	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
10.000	10.000	10.000	10.000
20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

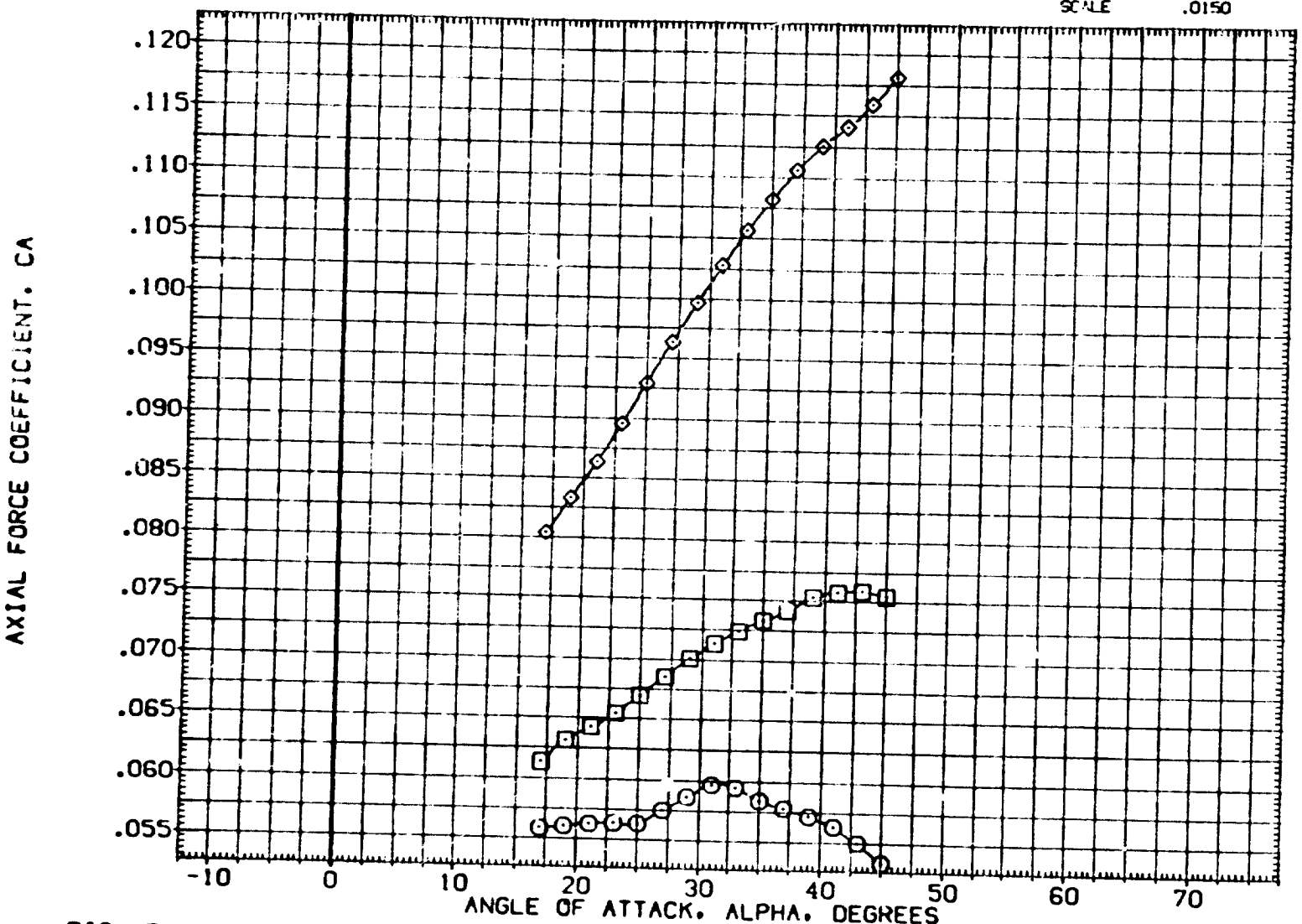


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTW001) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTW017) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	10.000	10.000	10.000
(CTW020) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION

SREF	2090.0000	SQ.FT.
LREF	471.8100	IN.
BREF	936.6200	IN.
XMRP	1076.6600	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

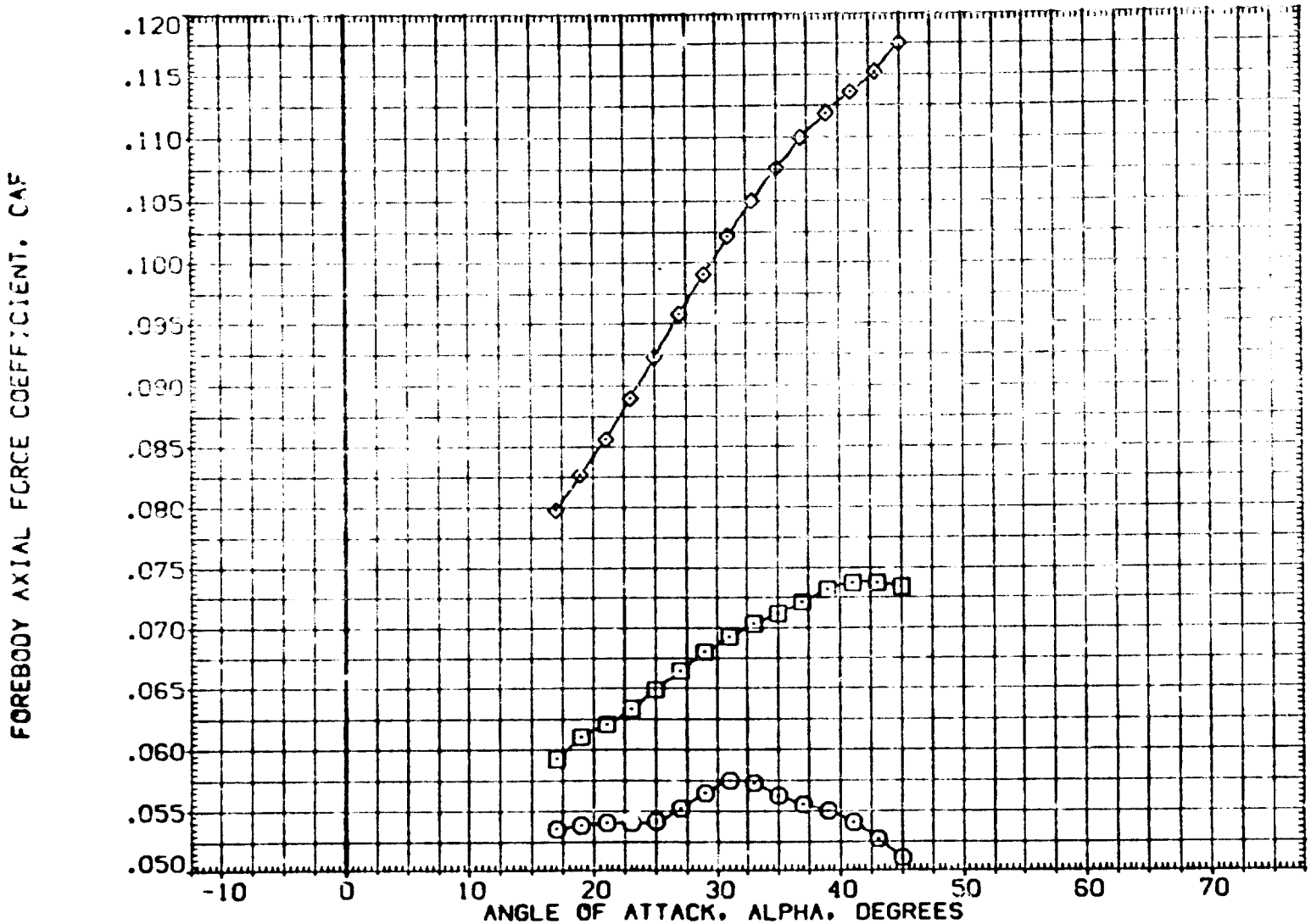


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV R0
.000	.000	.000	.000
10.000	10.000	10.000	10.000
20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

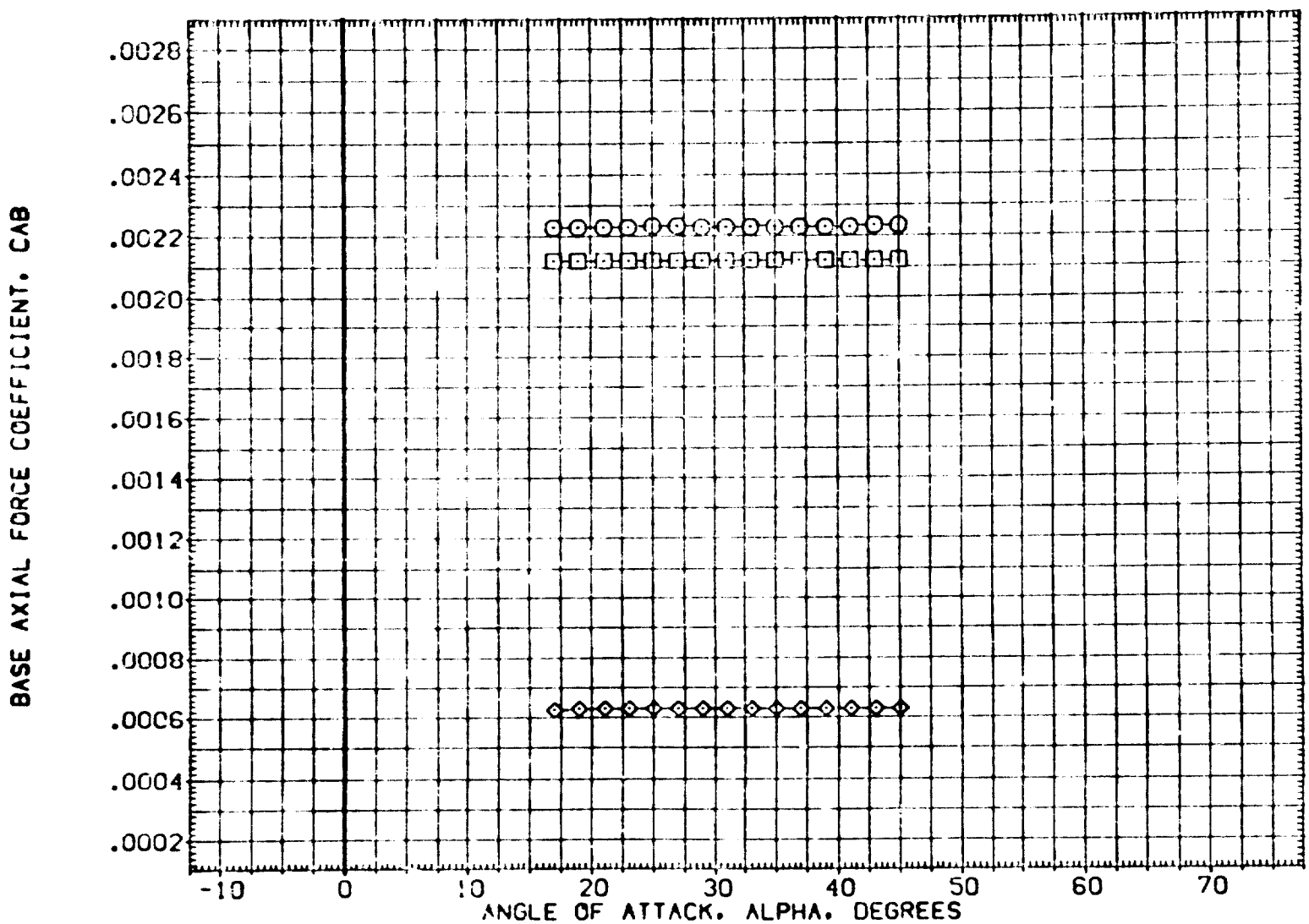


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

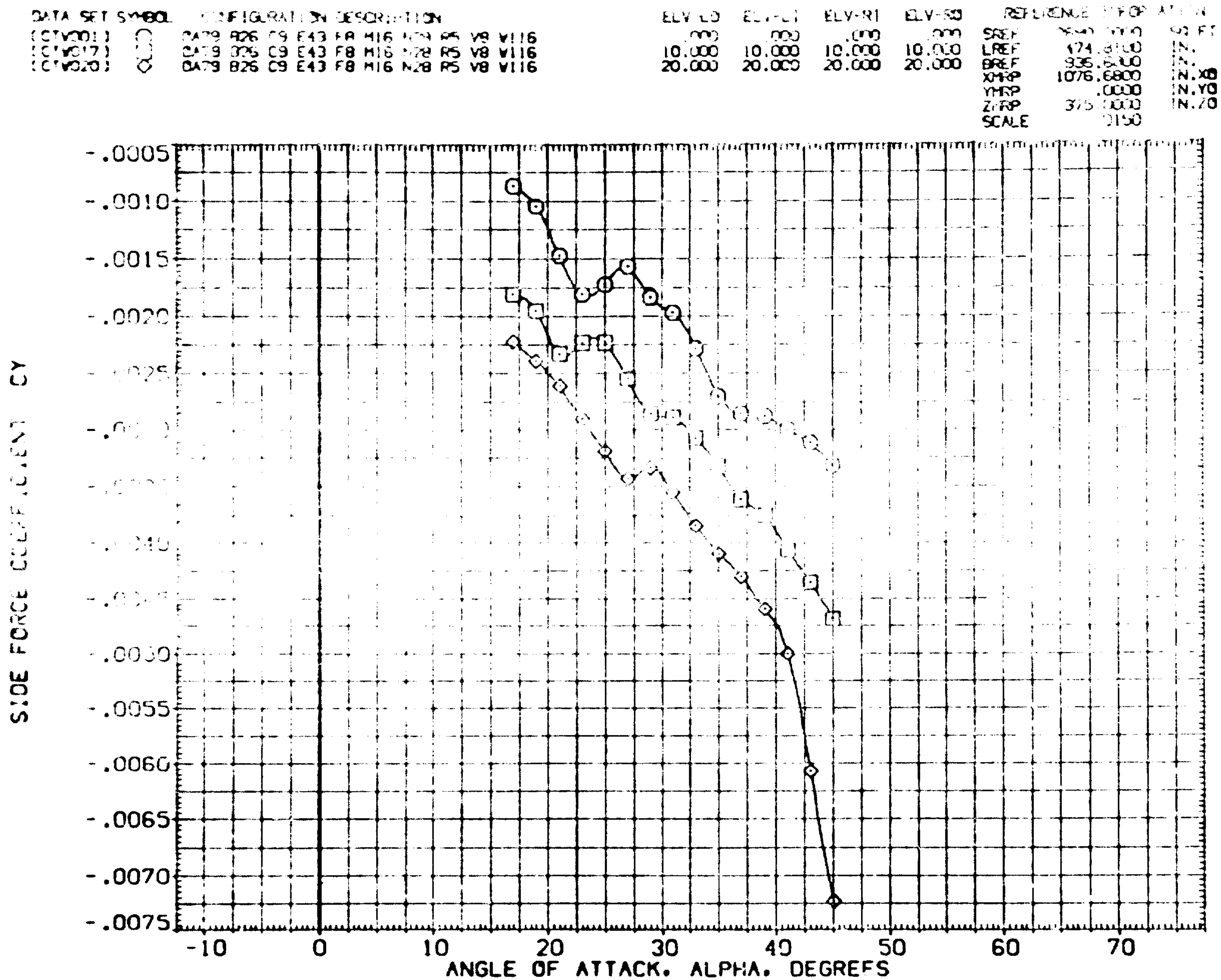

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CTV001) DA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017) DA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020) DA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
ELV-LO .000 10.000 20.000
ELV-RI .000 10.000 20.000
ELV-RO .000 10.000 20.000
SREF
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.XO
YMRP .0000 IN.YO
ZMRP 375.0000 IN.ZO
SCALE .0150
SIDE FORCE COEFFICIENT CY
-.0005
-.0010
-.0015
-.0020
-.0050
-.0055
-.0060
-.0065
-.0070
-.0075
-10
0
10
20
30
40
50
60
70
ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV5001)	□	GA79 B35 C9 E13 F8 M16 N28 R5 V8 W116
(ATV5127)	○	GA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV5201)	◇	GA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
10.000	10.000	10.000	10.000
20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2580.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6200	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

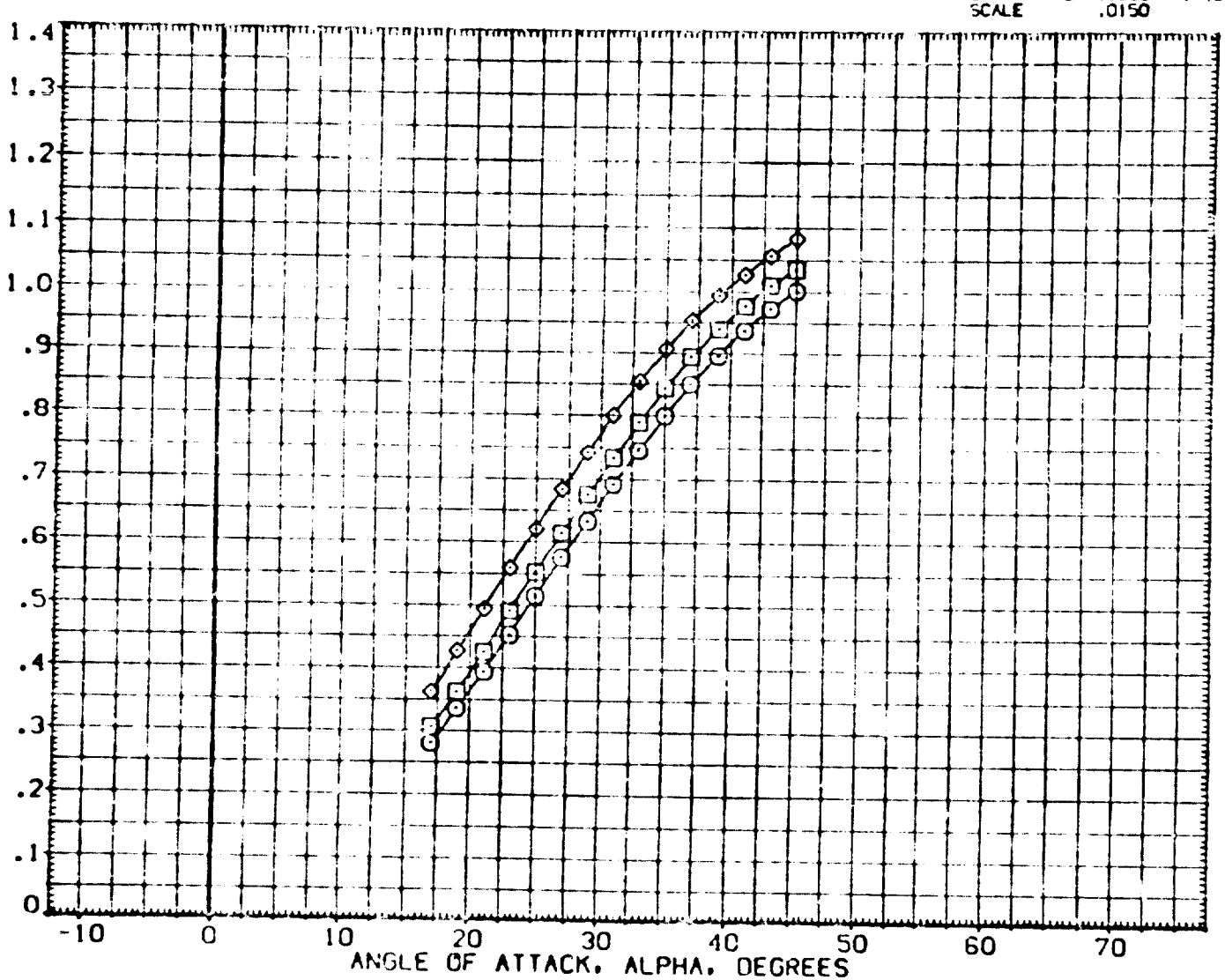


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

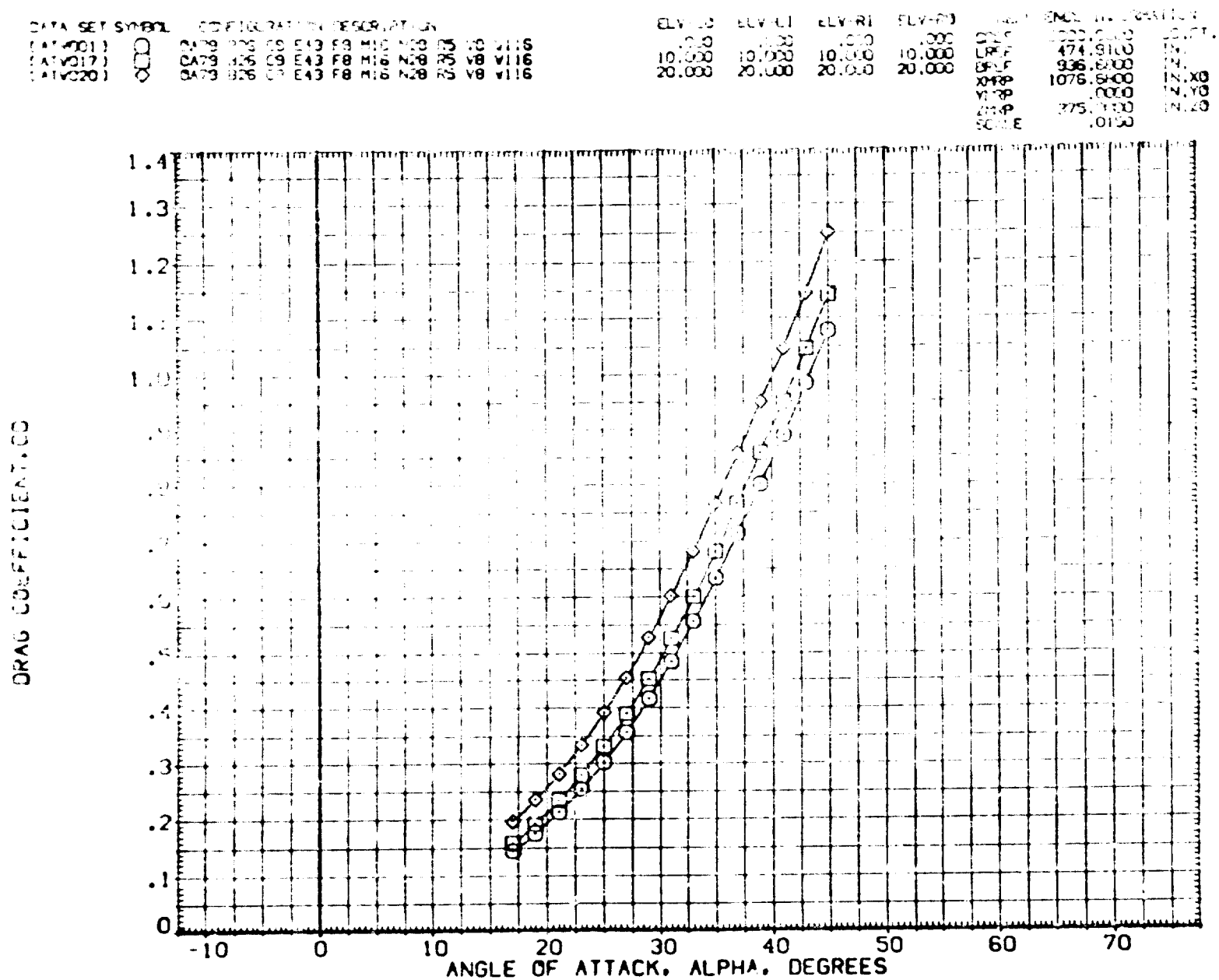


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATW001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(ATW017)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	10.000	10.000	10.000
(ATW020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	20.000	20.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

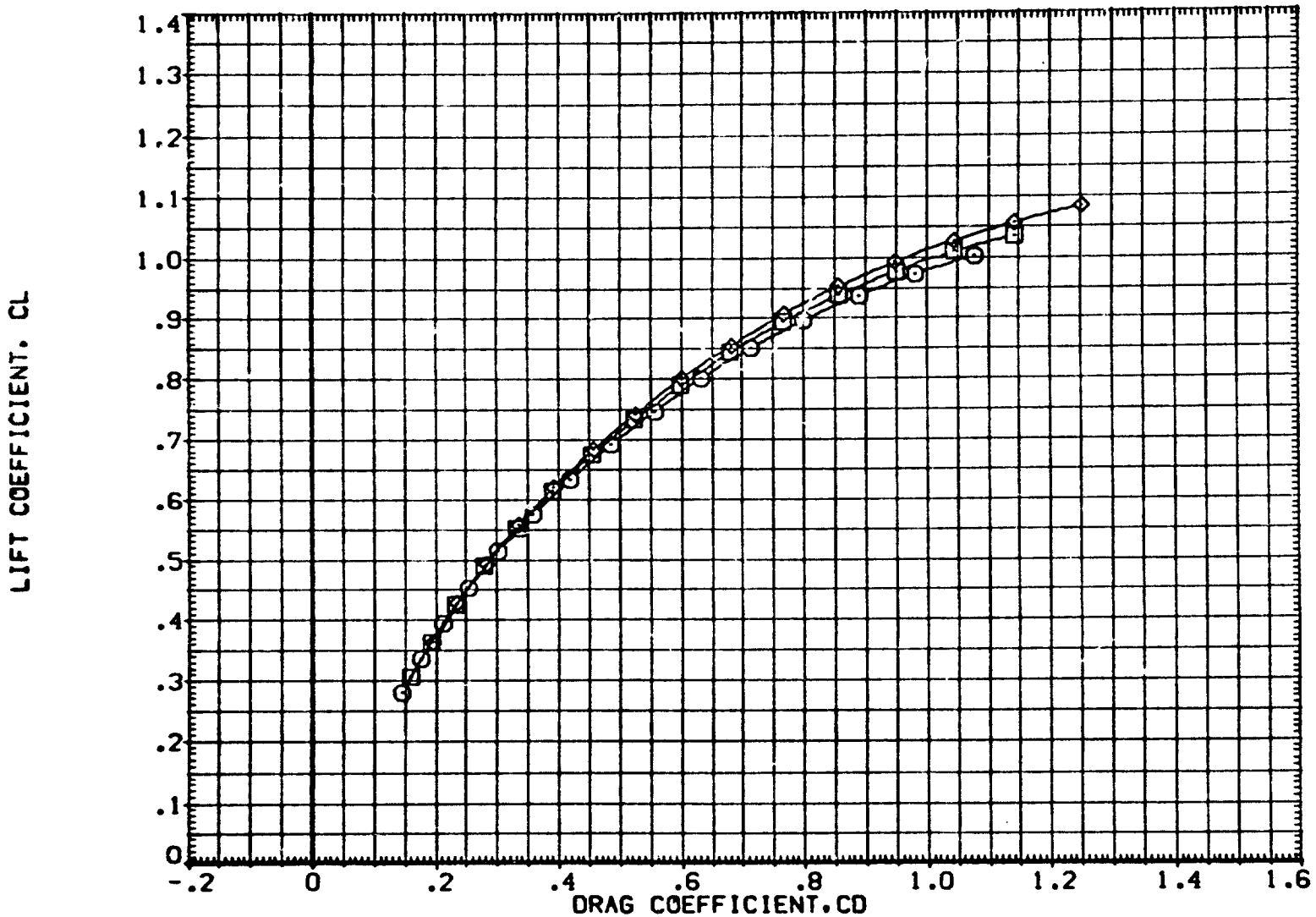


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV017)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
10.000	10.000	10.000	10.000
20.000	20.000	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.3120	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

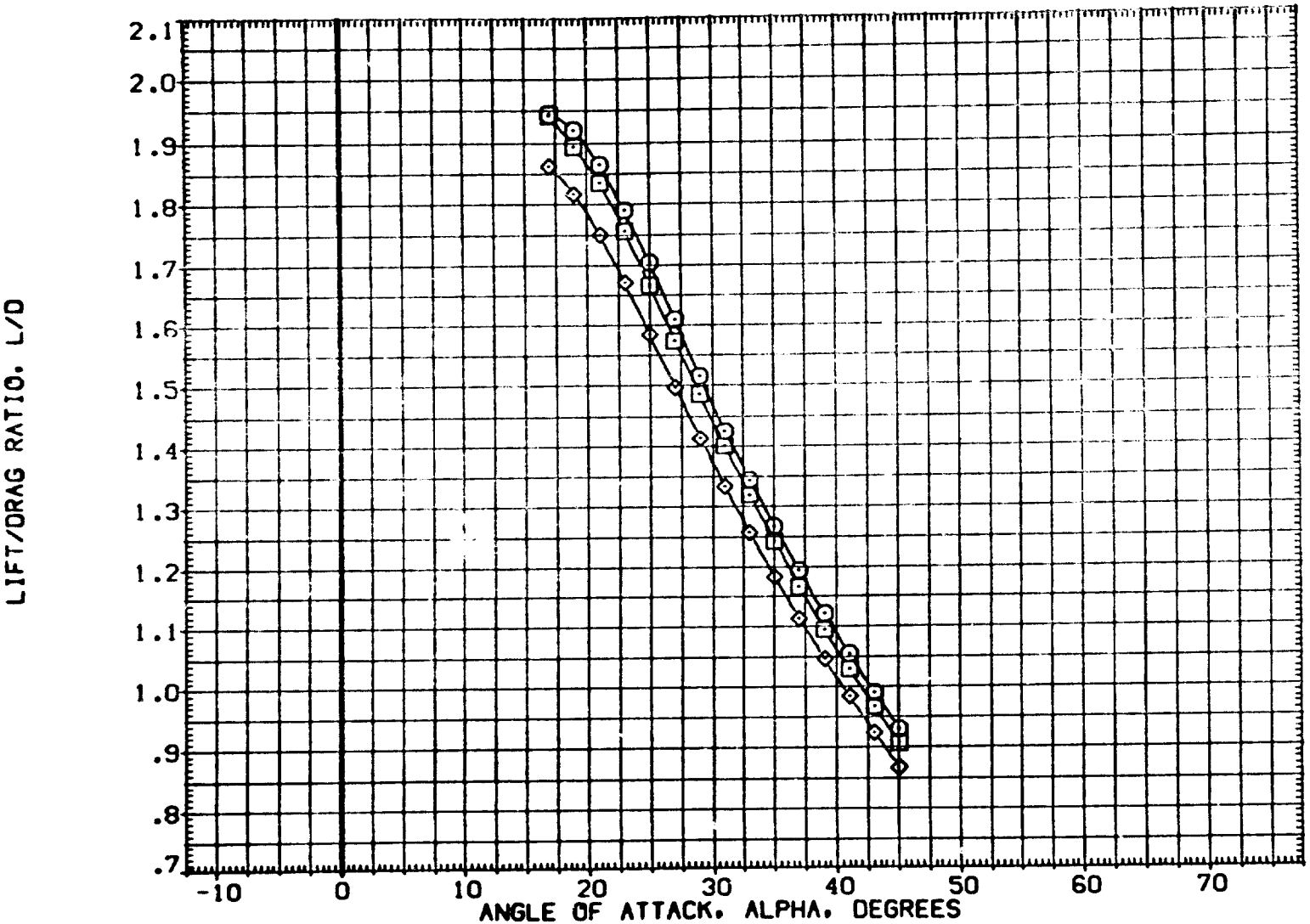


FIG. 7 FULL SPAN ELEVON EFFECTIVENESS (POSITIVE DEFLECTIONS)

(A)MACH = 8.00

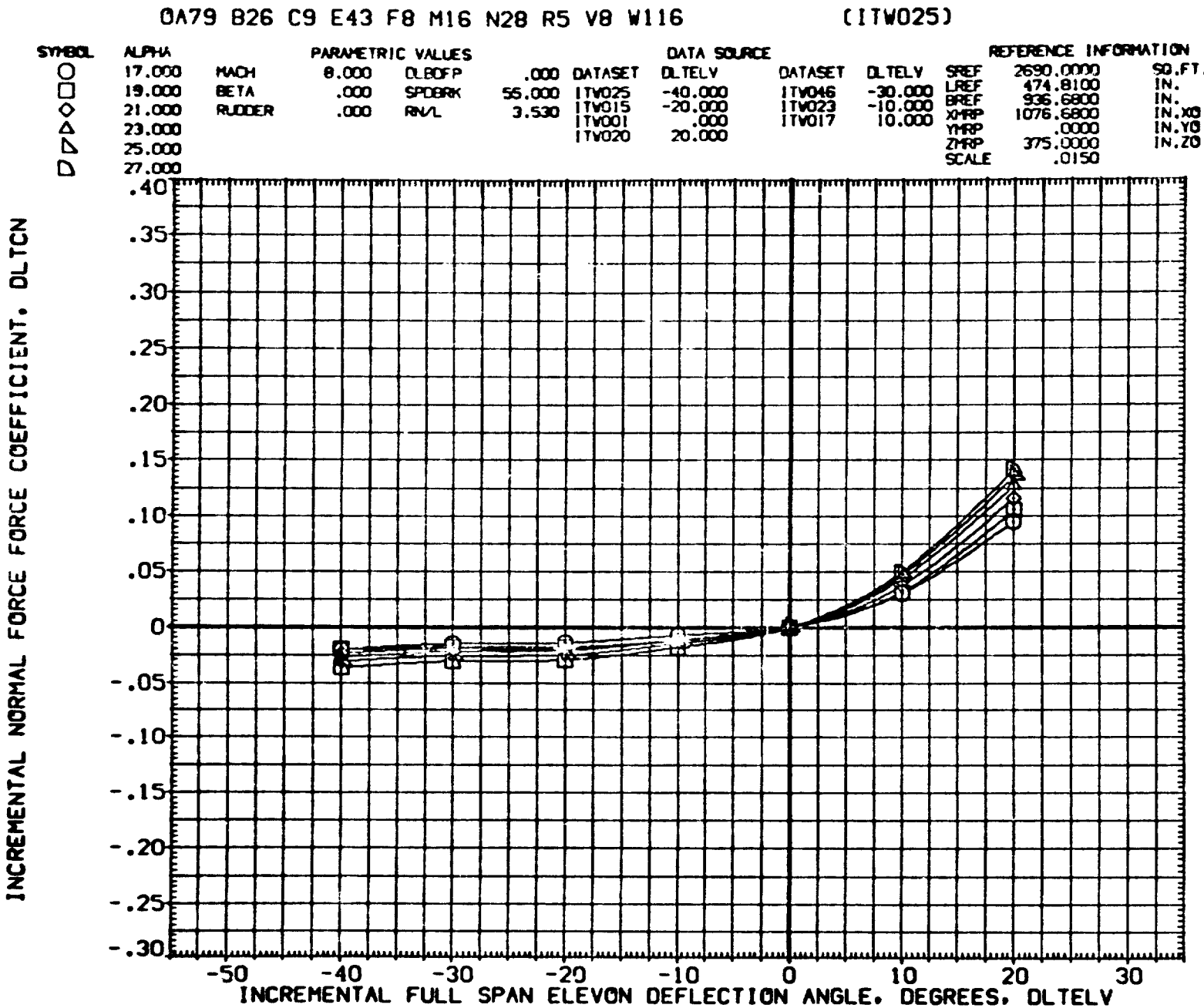


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

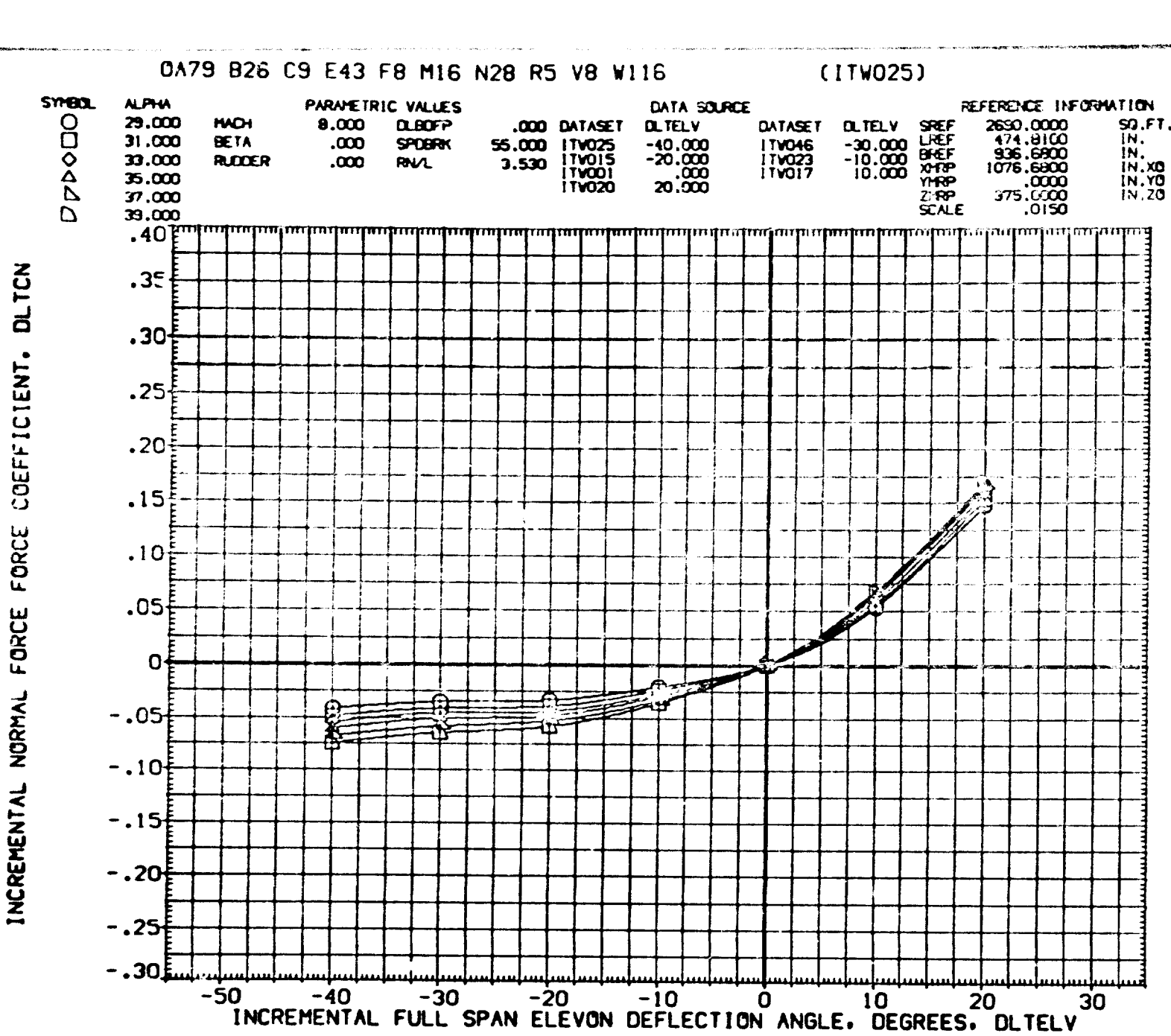


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNVL	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

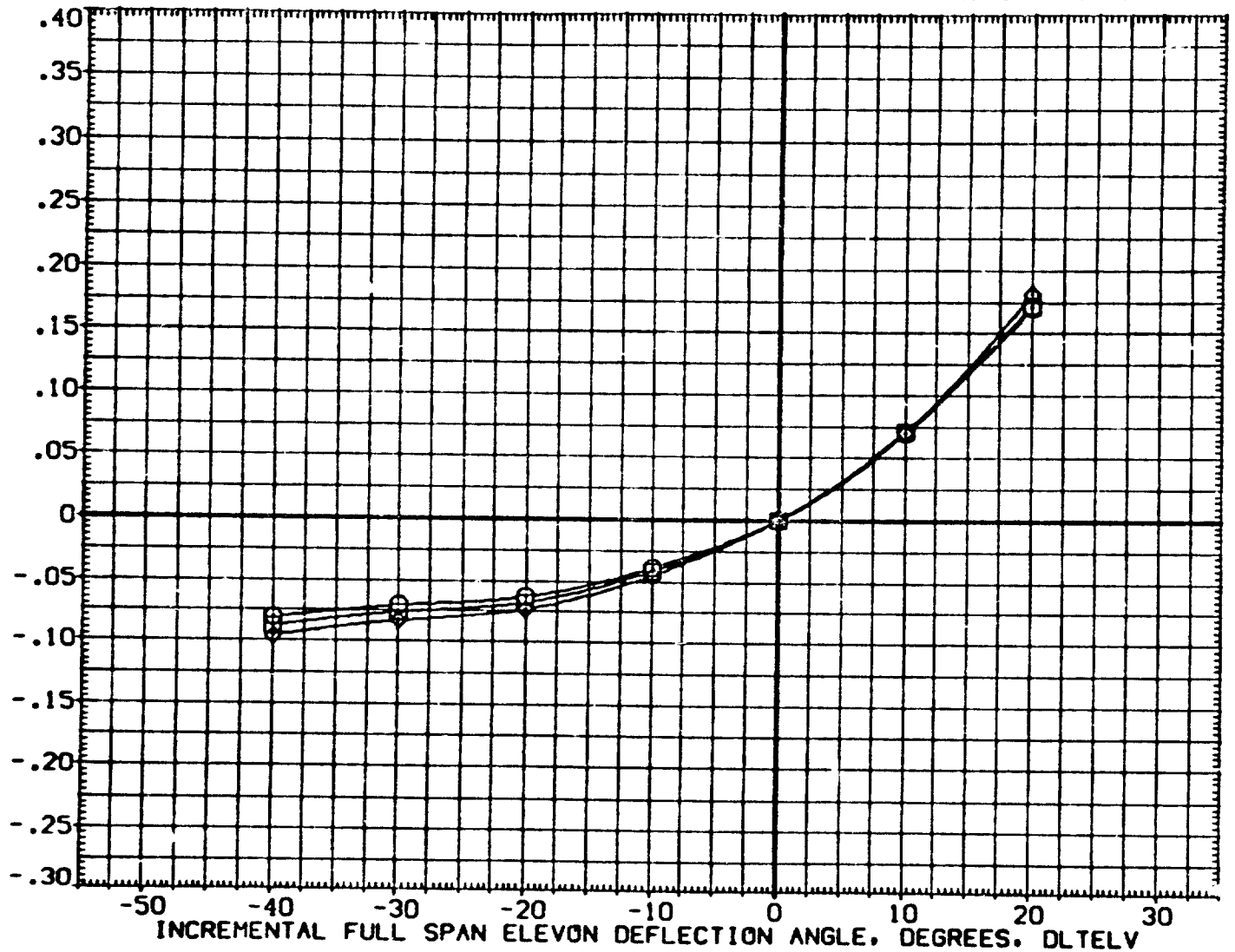


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

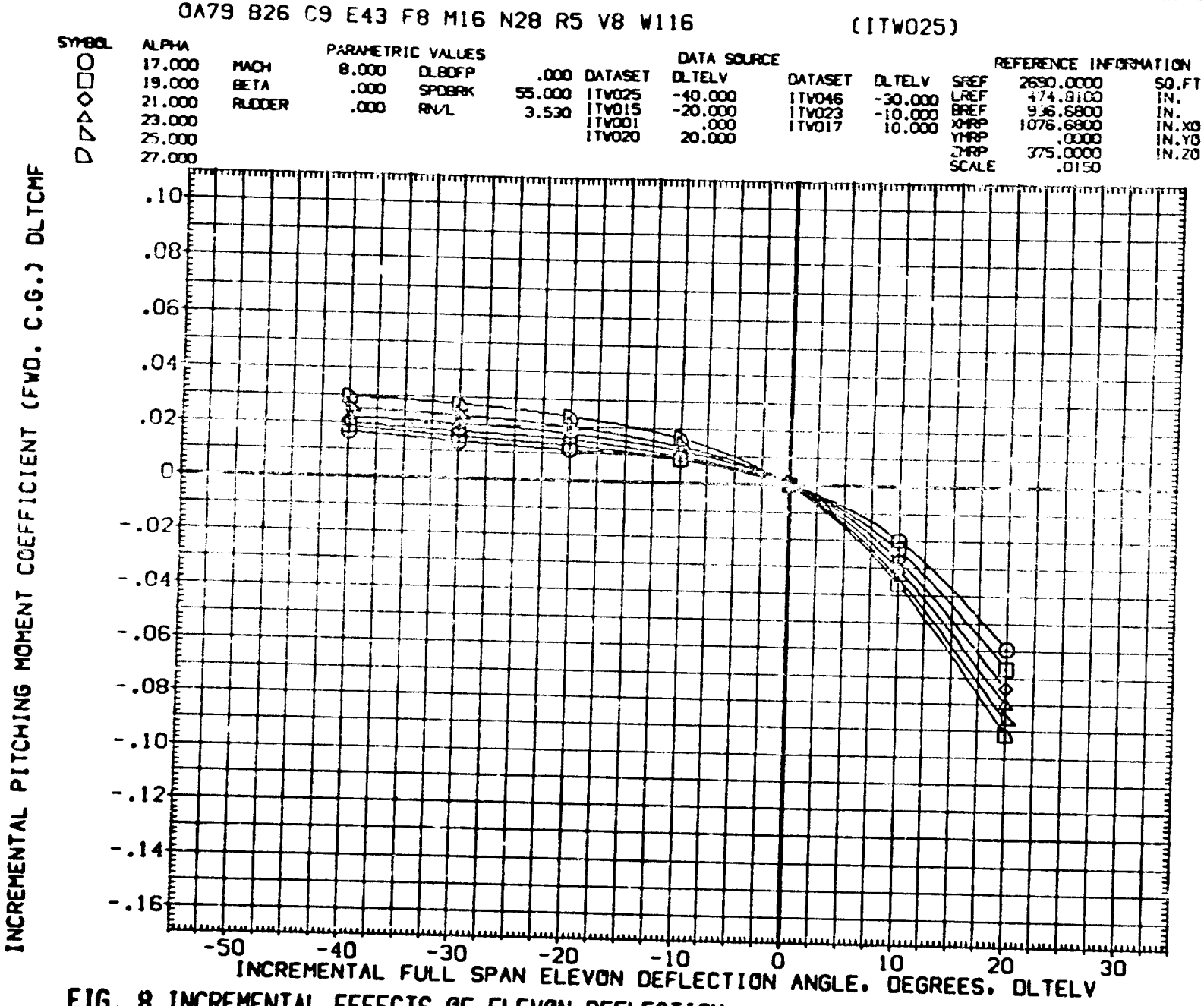


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

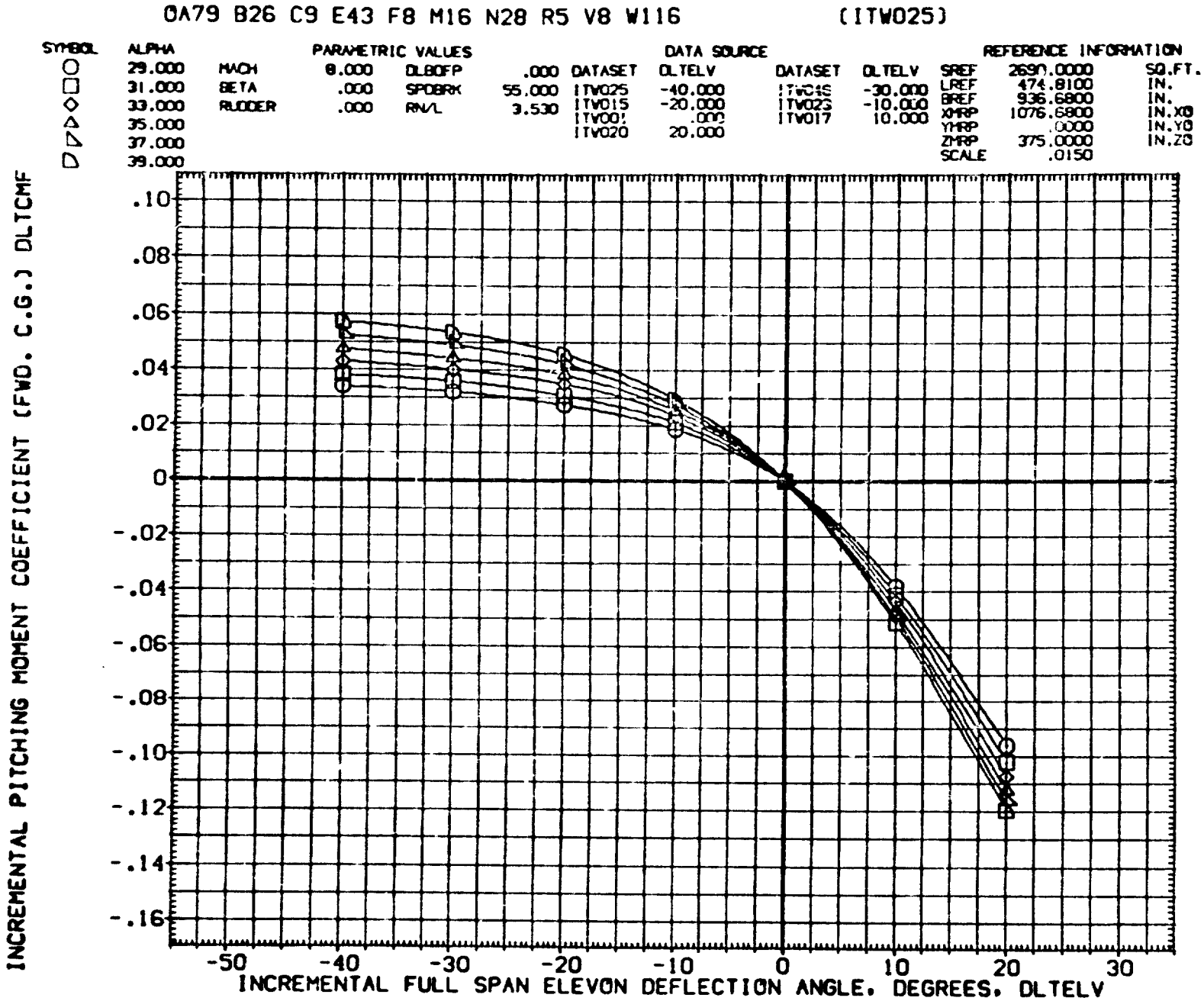


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	DLBDFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNVL	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

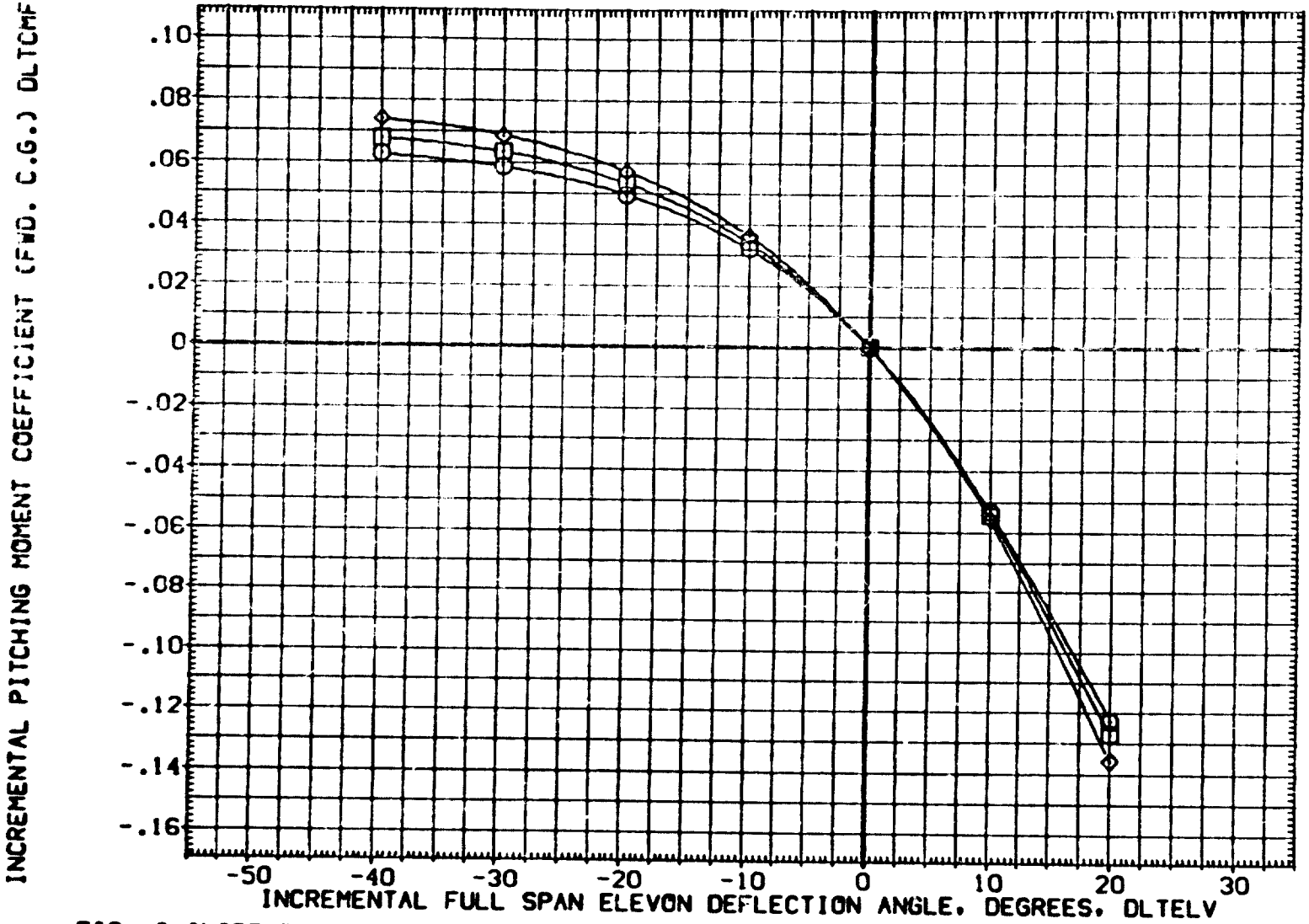


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

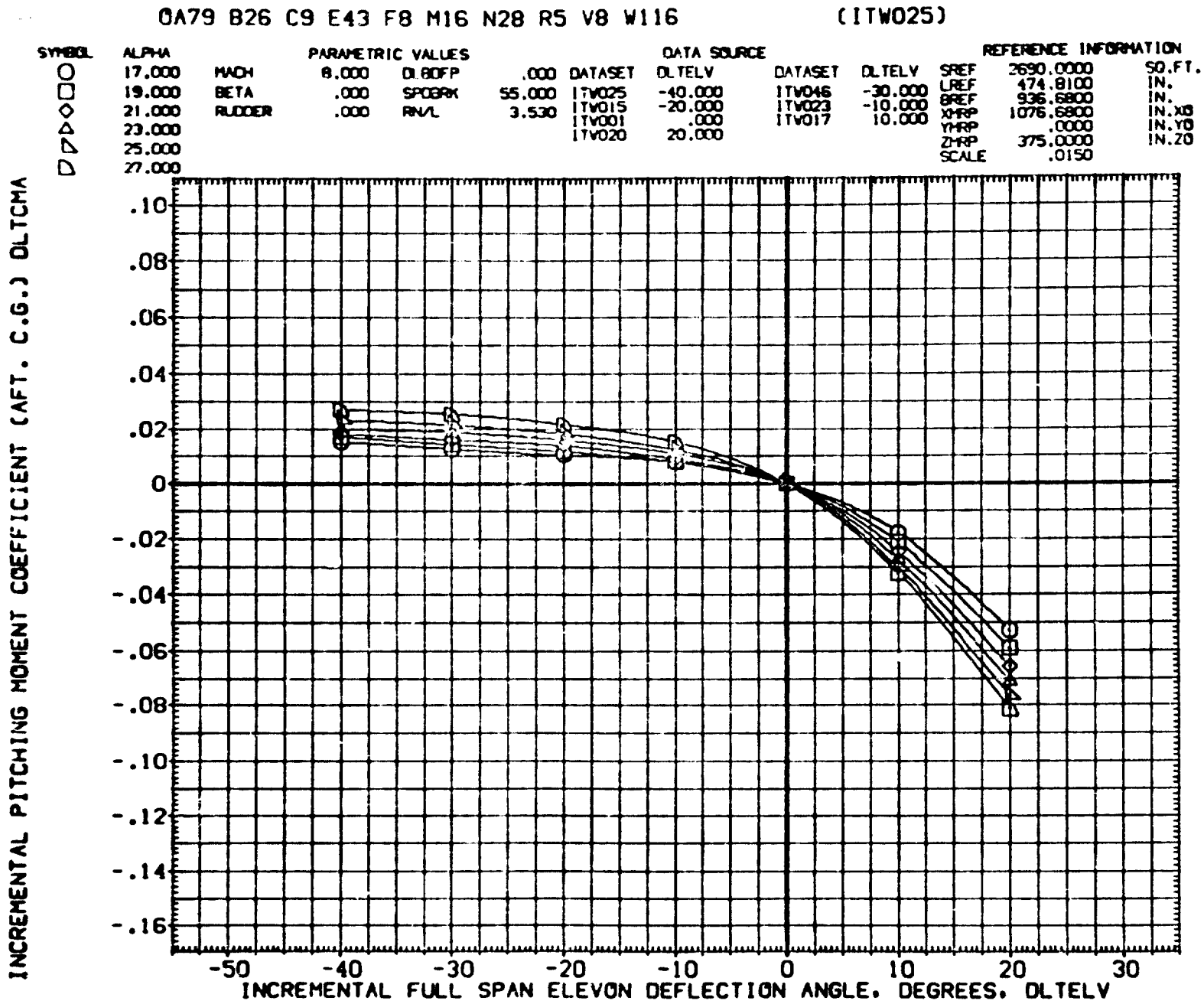


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
○	29.000	MACH	0.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.9100	IN.
◇	33.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
△	35.000					ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.X0
▽	37.000					ITW020	20.000			YMRP	.0000	IN.Y0
D	39.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

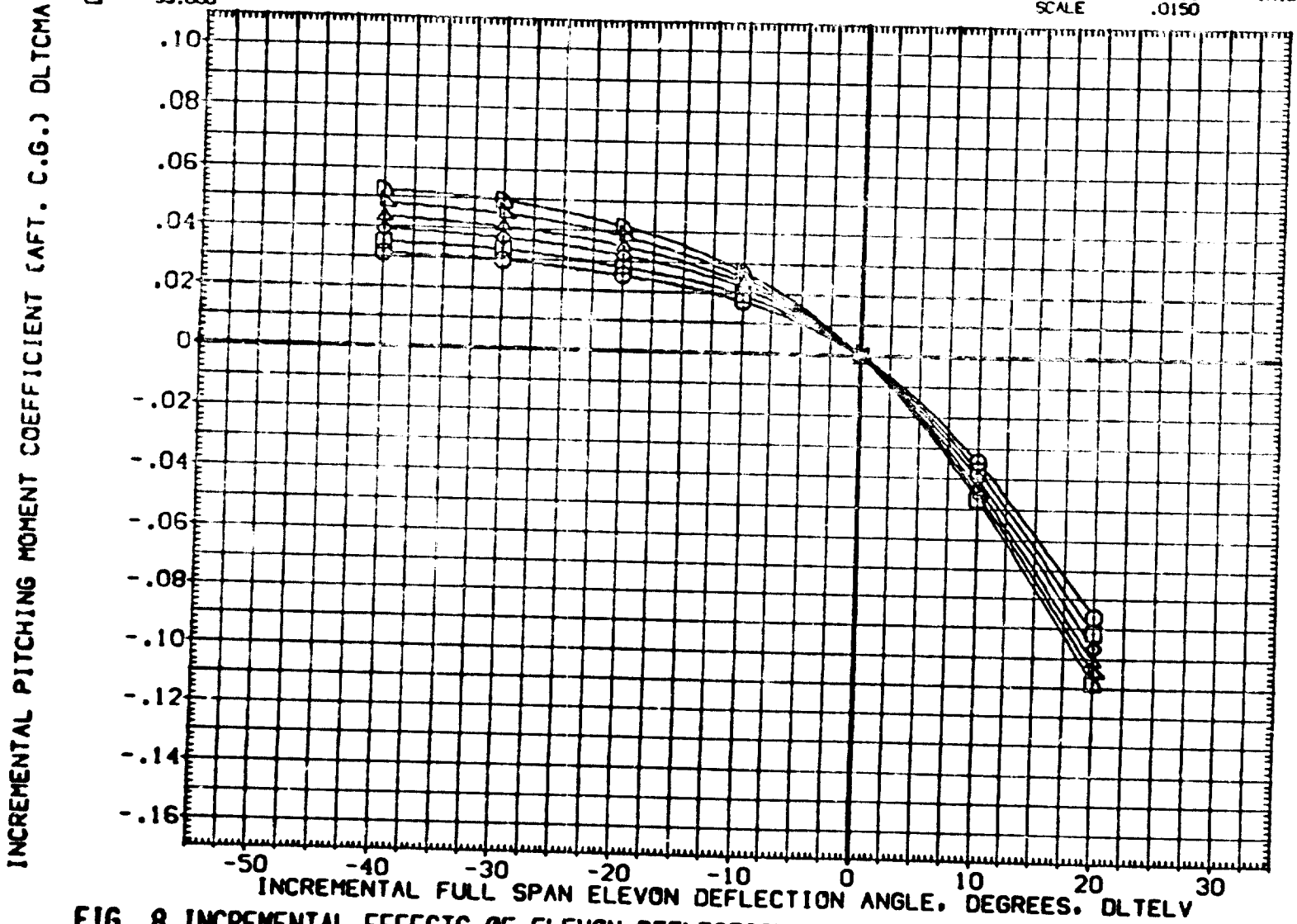


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	DLBDFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

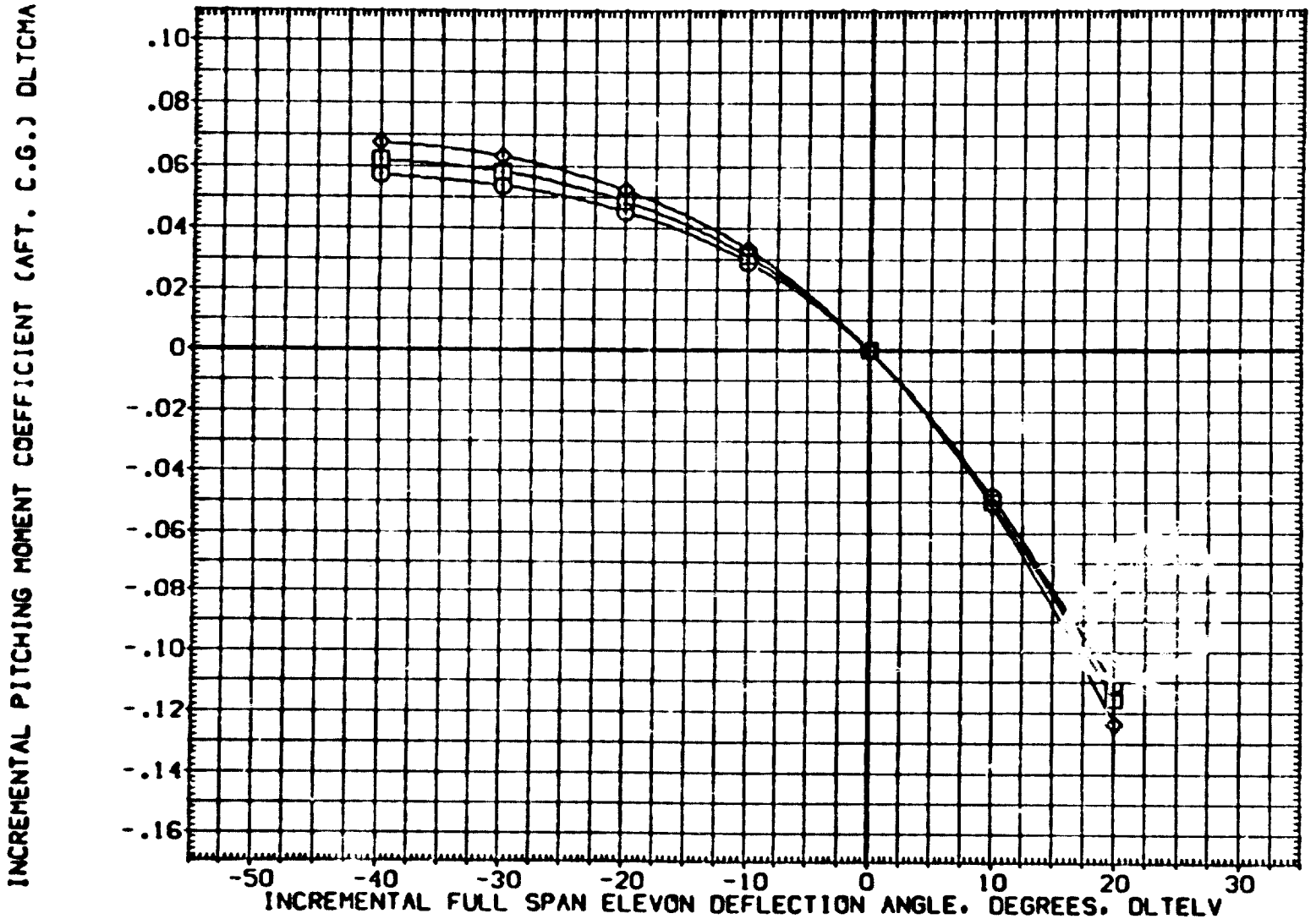


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A7S B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE DATASET	DLTELV	DATASET	DLTELV	REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBDFP	.000	ITW025	-40.000	ITW046	-30.000	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SFDBRK	55.000	ITW015	-20.000	ITW023	-10.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RN/L	3.530	ITW001	.000	ITW017	10.000	BREF	936.6800	IN.
△	23.000					ITW020	20.000			XMRP	1076.6800	IN.XO
◁	25.000									YMRP	.0000	IN.YO
D	27.000									ZMRP	375.0000	IN.ZO
										SCALE	.0150	

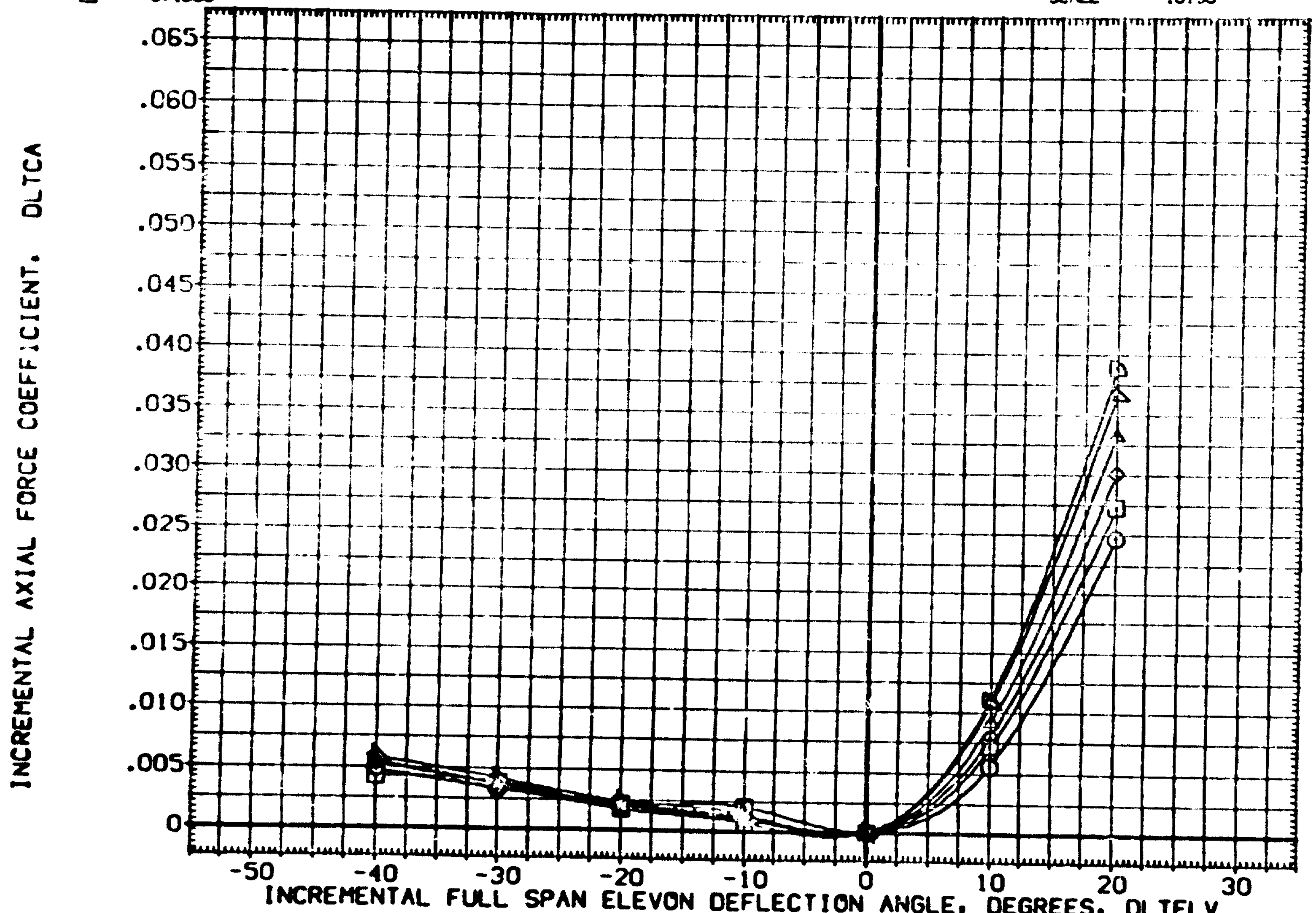


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

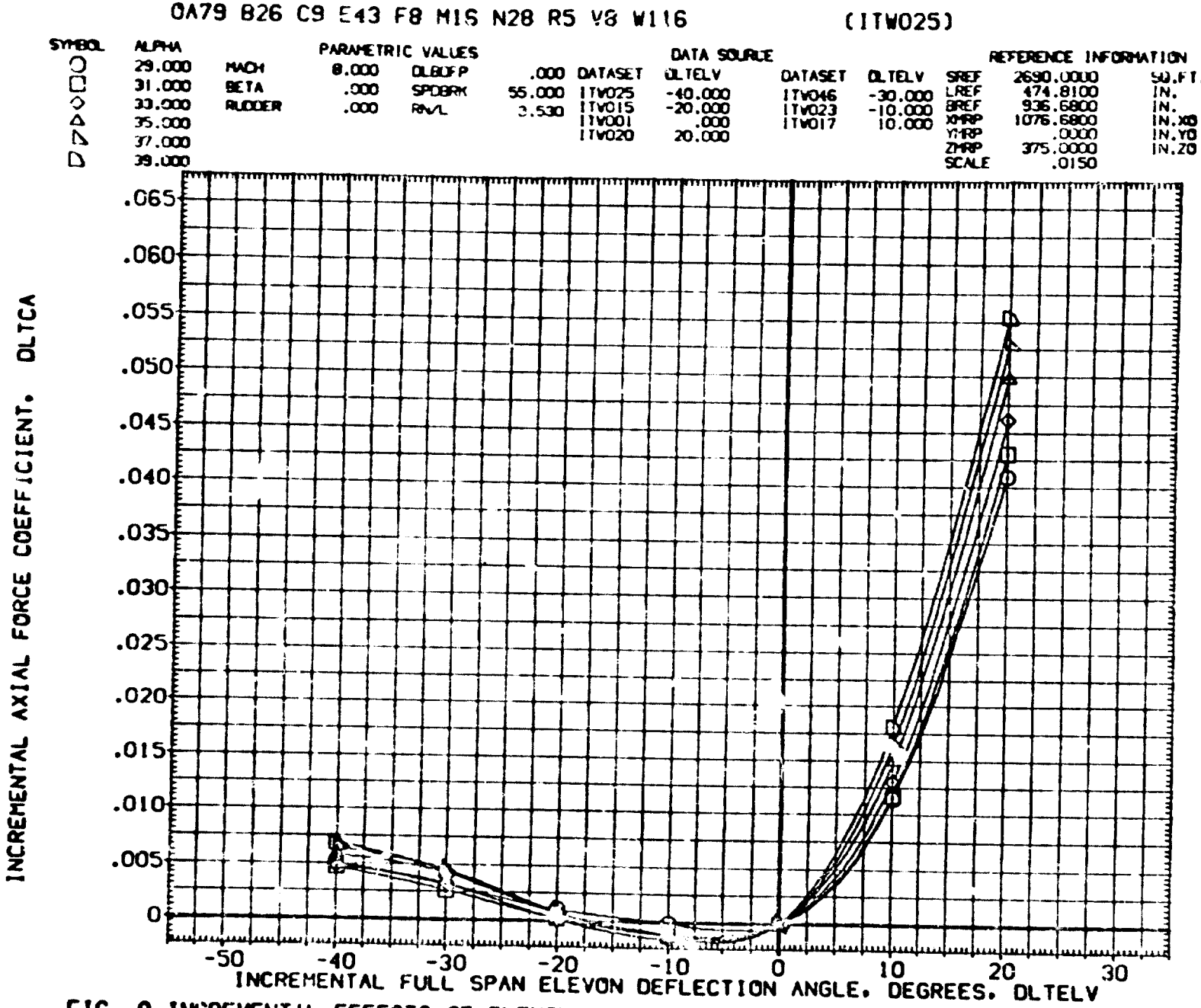


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

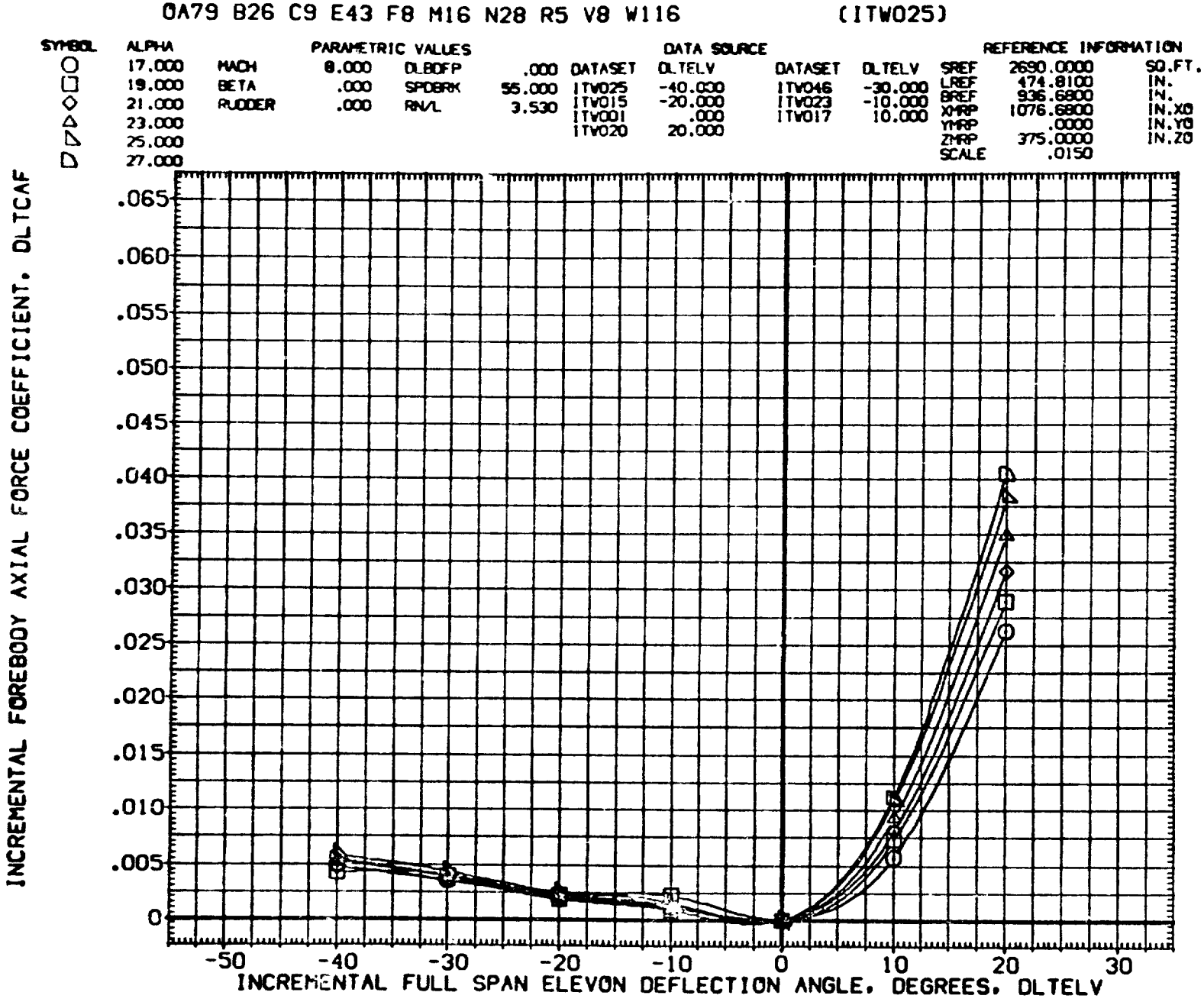


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

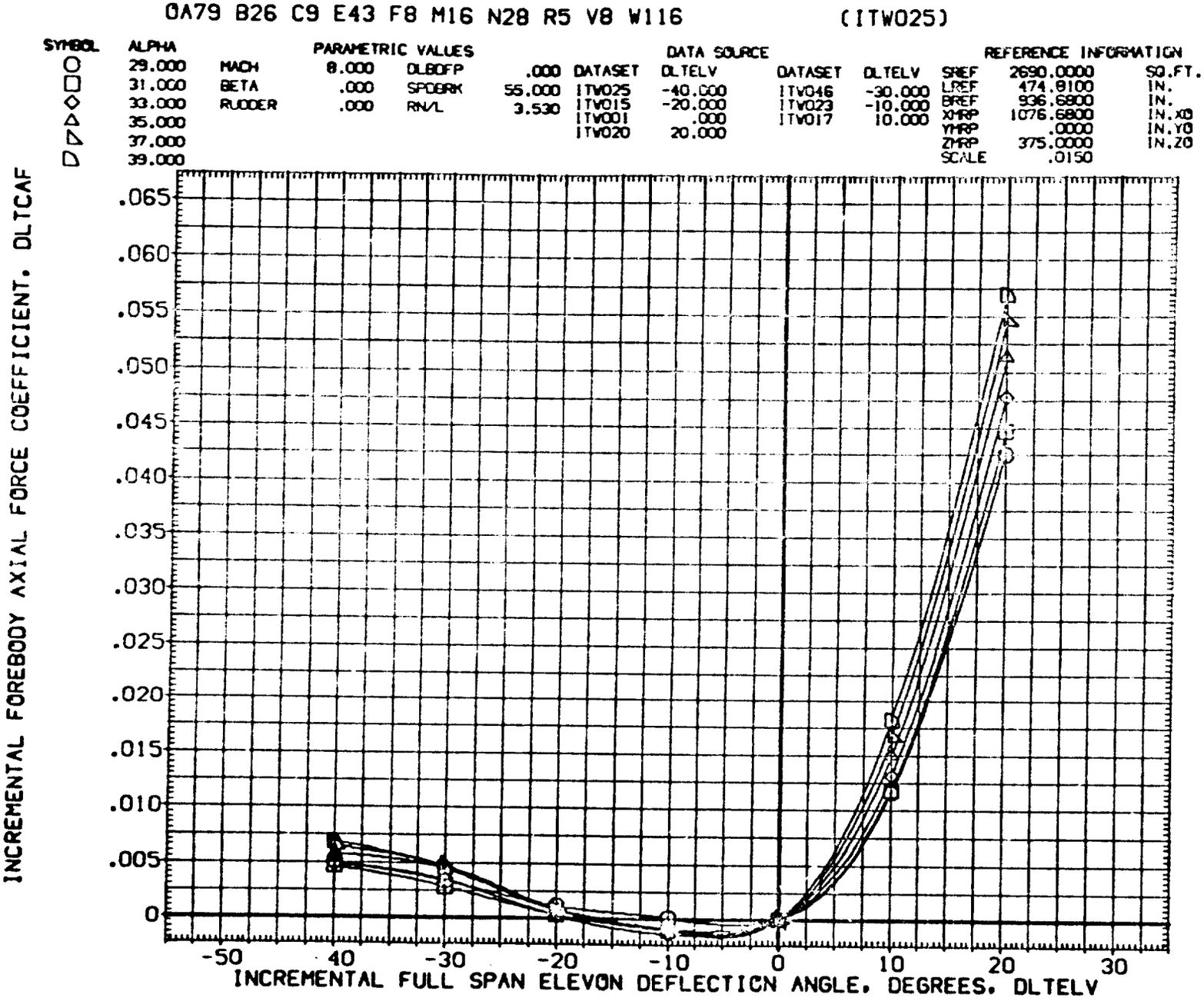


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.X0
						ITW020	20.000			YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

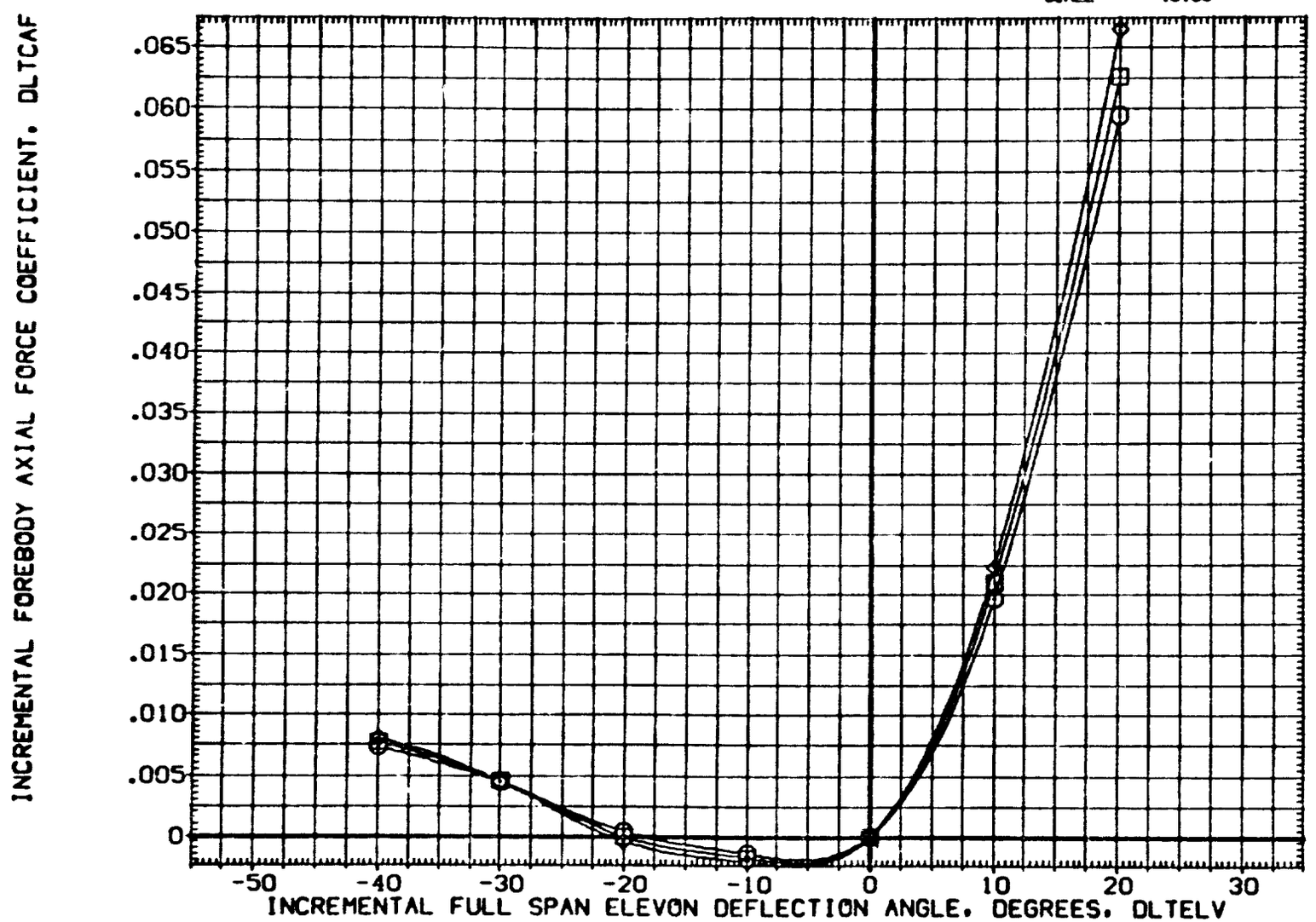


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

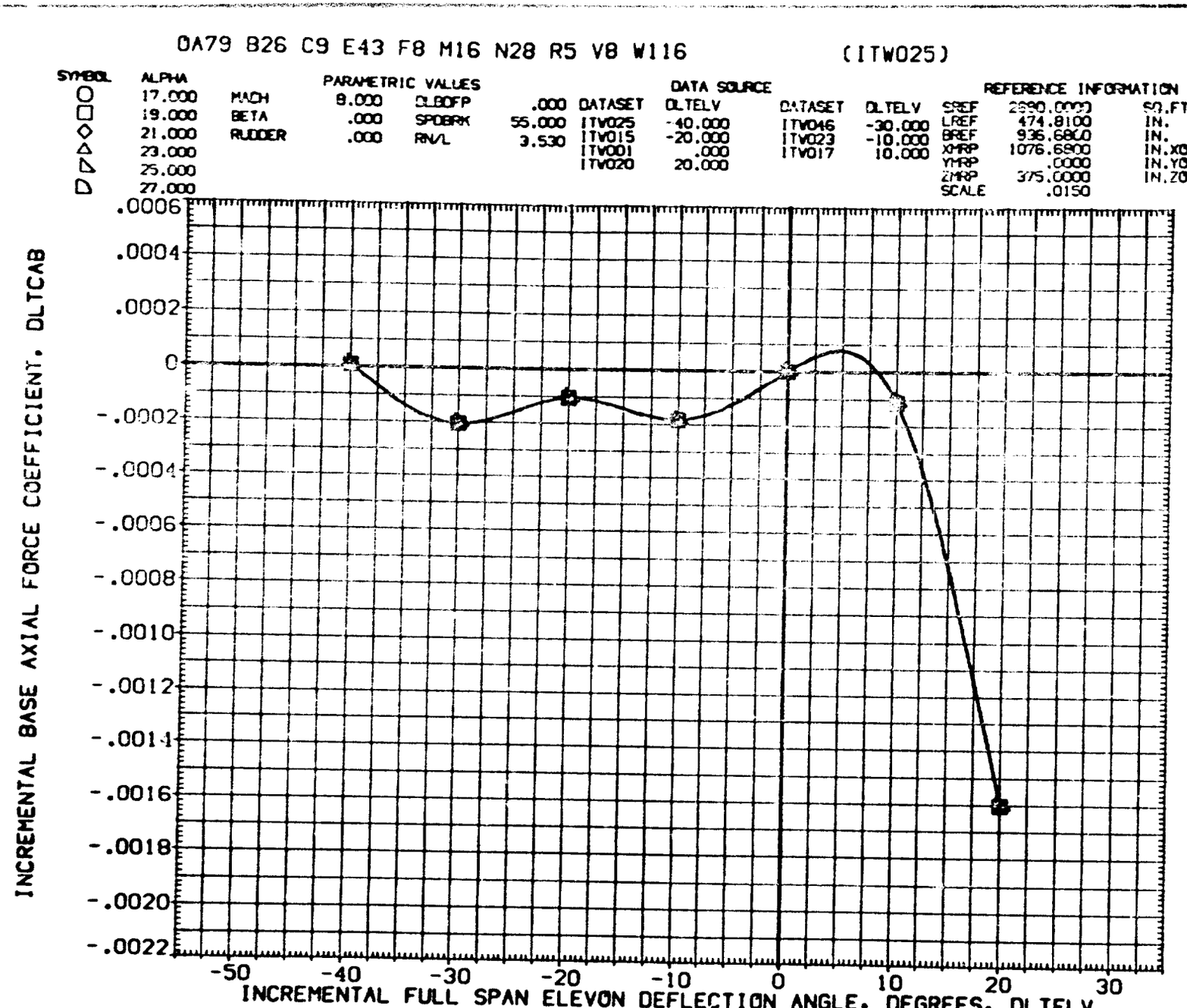


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

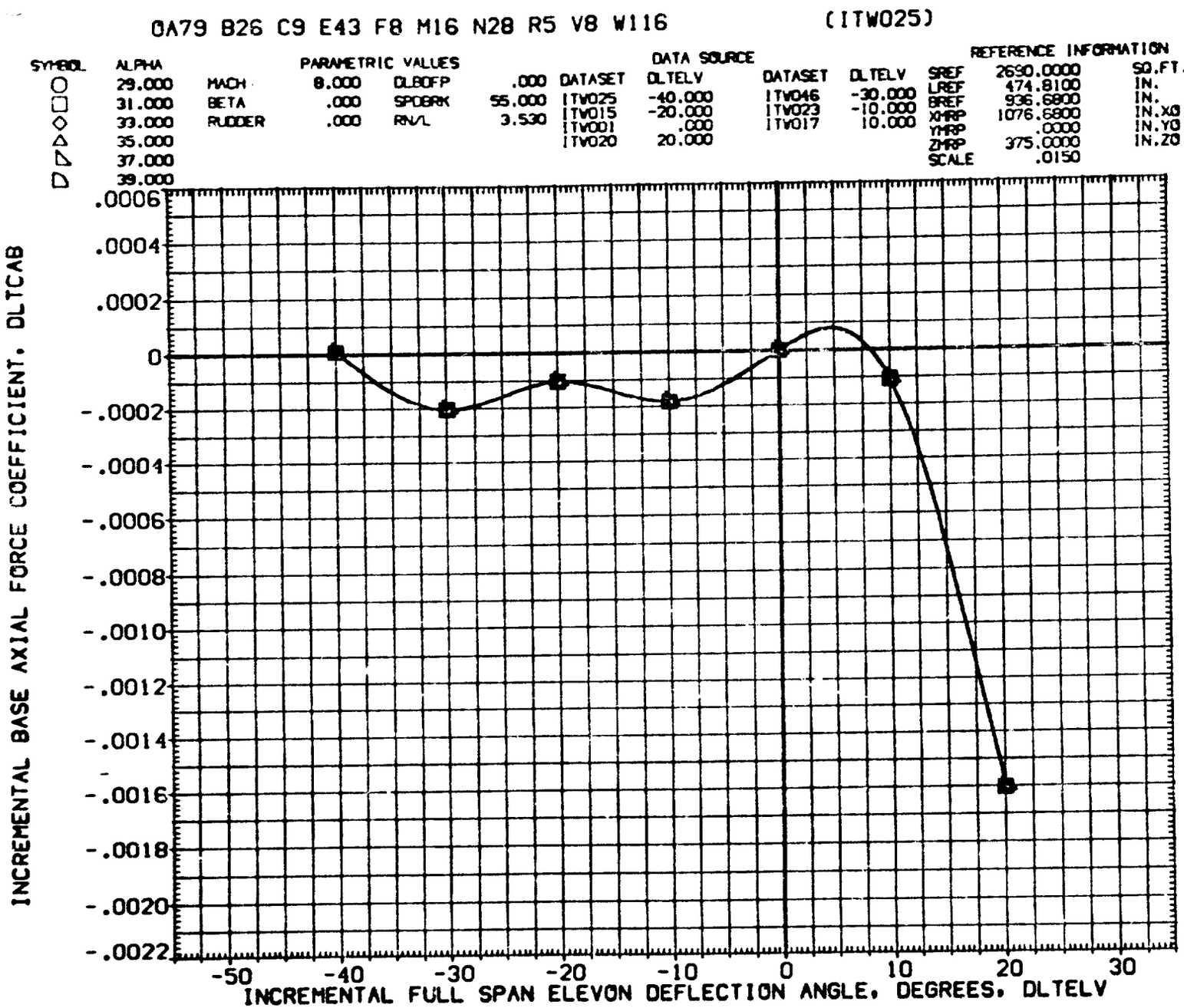


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLELFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPOBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	FAIL	3.530	ITW015	-20.000	ITW023	-10.000	BREF	906.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6600	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	575.0000	IN.ZB
										SCALE	.0150	

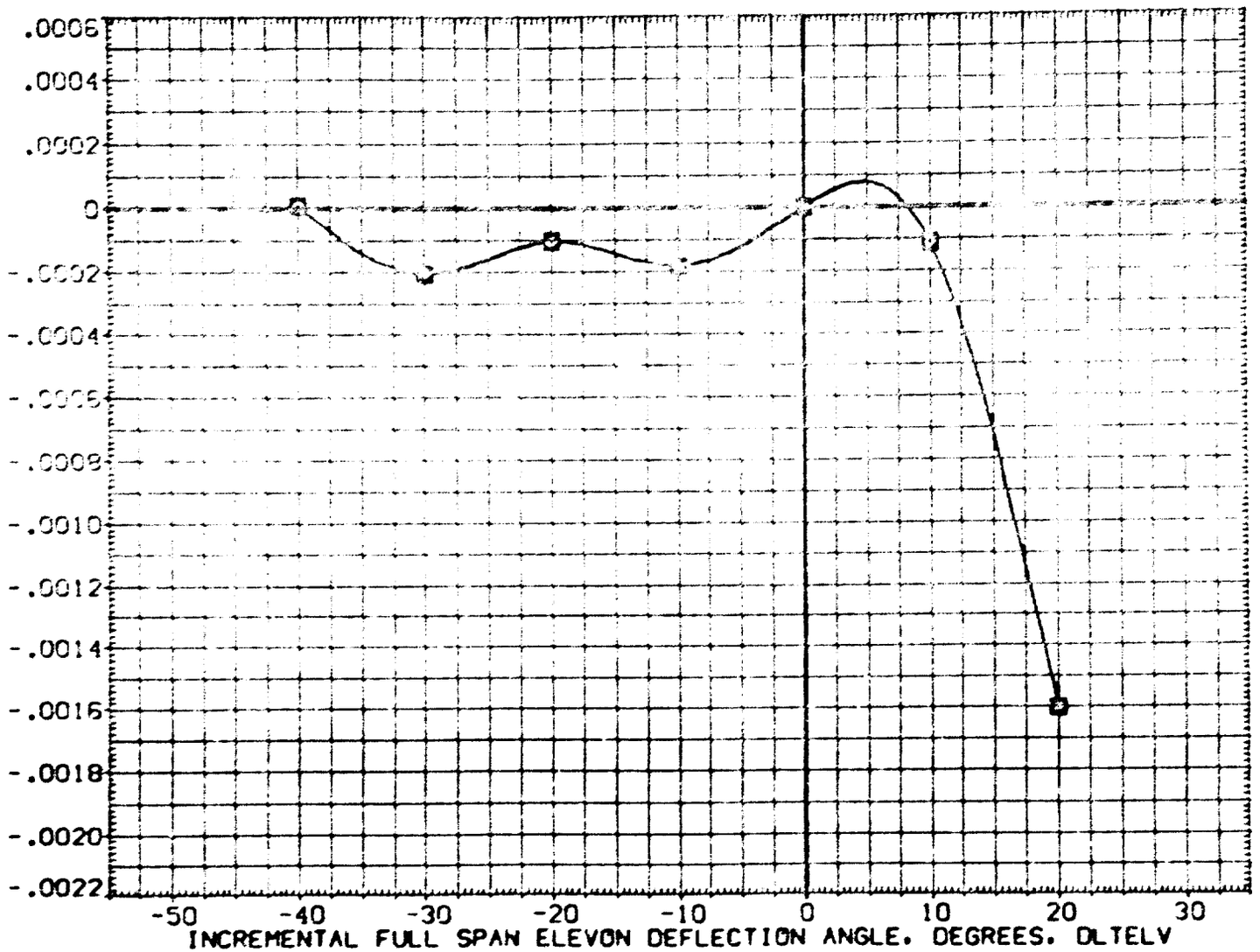


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SPOBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
△	23.000					ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.X0
▷	25.000					ITW020	20.000			YMRP	.0000	IN.Y0
▽	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

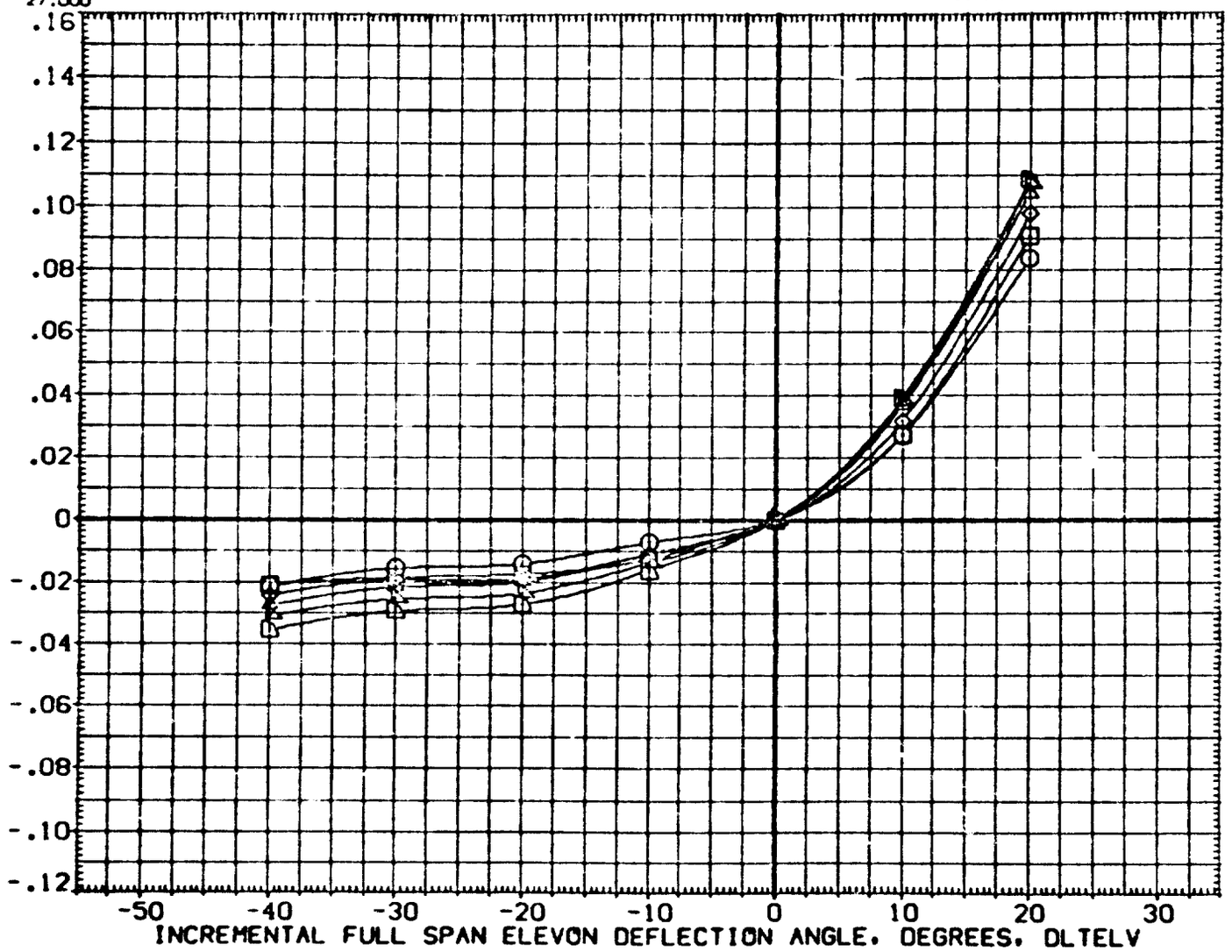


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBYFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	33.000	RUDDER	.000	RNYL	3.530	ITW015	-20.000	ITW023	-10.000	BREF	935.6800	IN.
△	35.000					ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
▽	37.000					ITW020	20.000			YMRP	.0000	IN.YB
	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

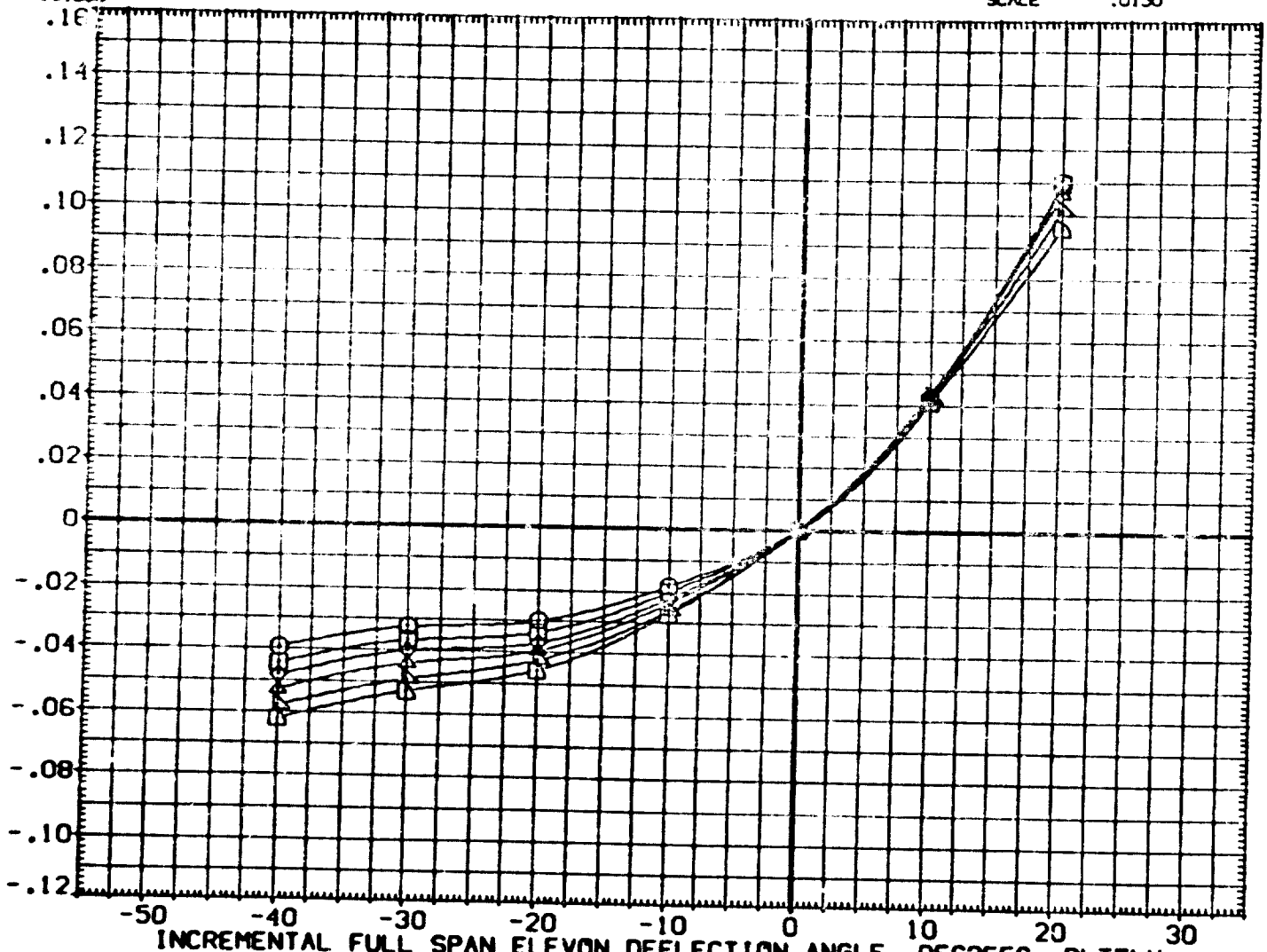


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITWC25)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNYL	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

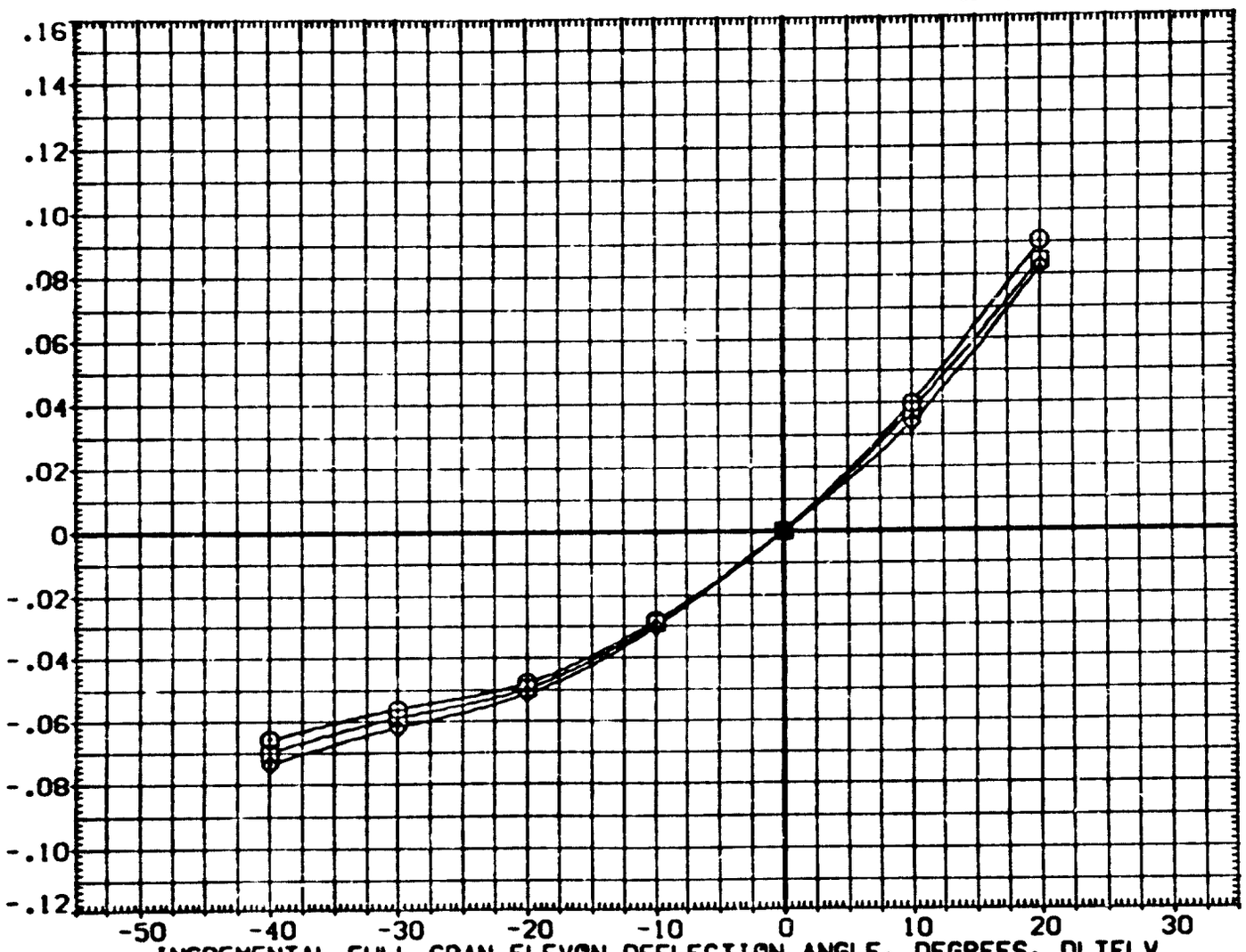


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
△	23.000					ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.X0
▷	25.000					ITW020	20.000			YMRP	.0000	IN.Y0
▽	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

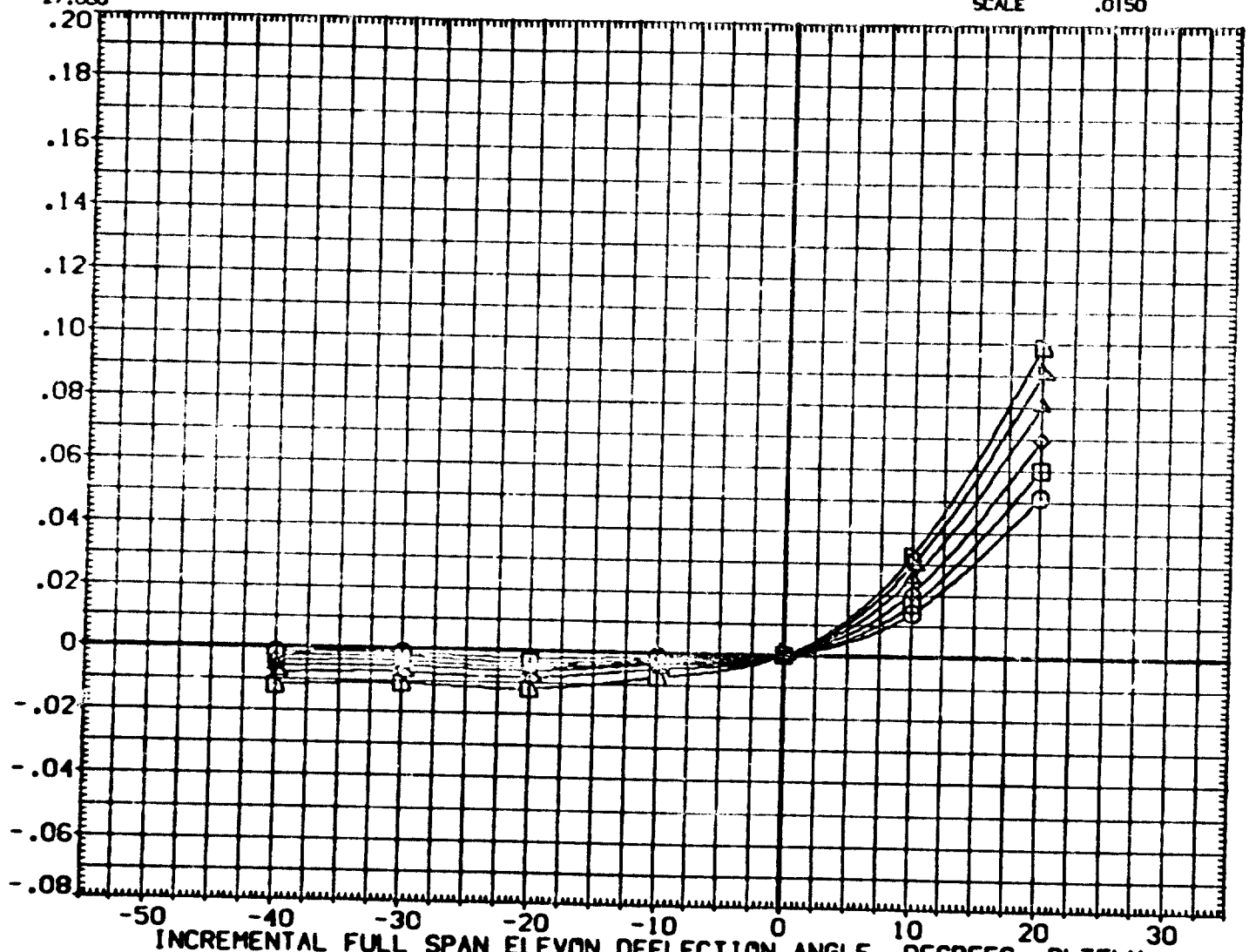


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

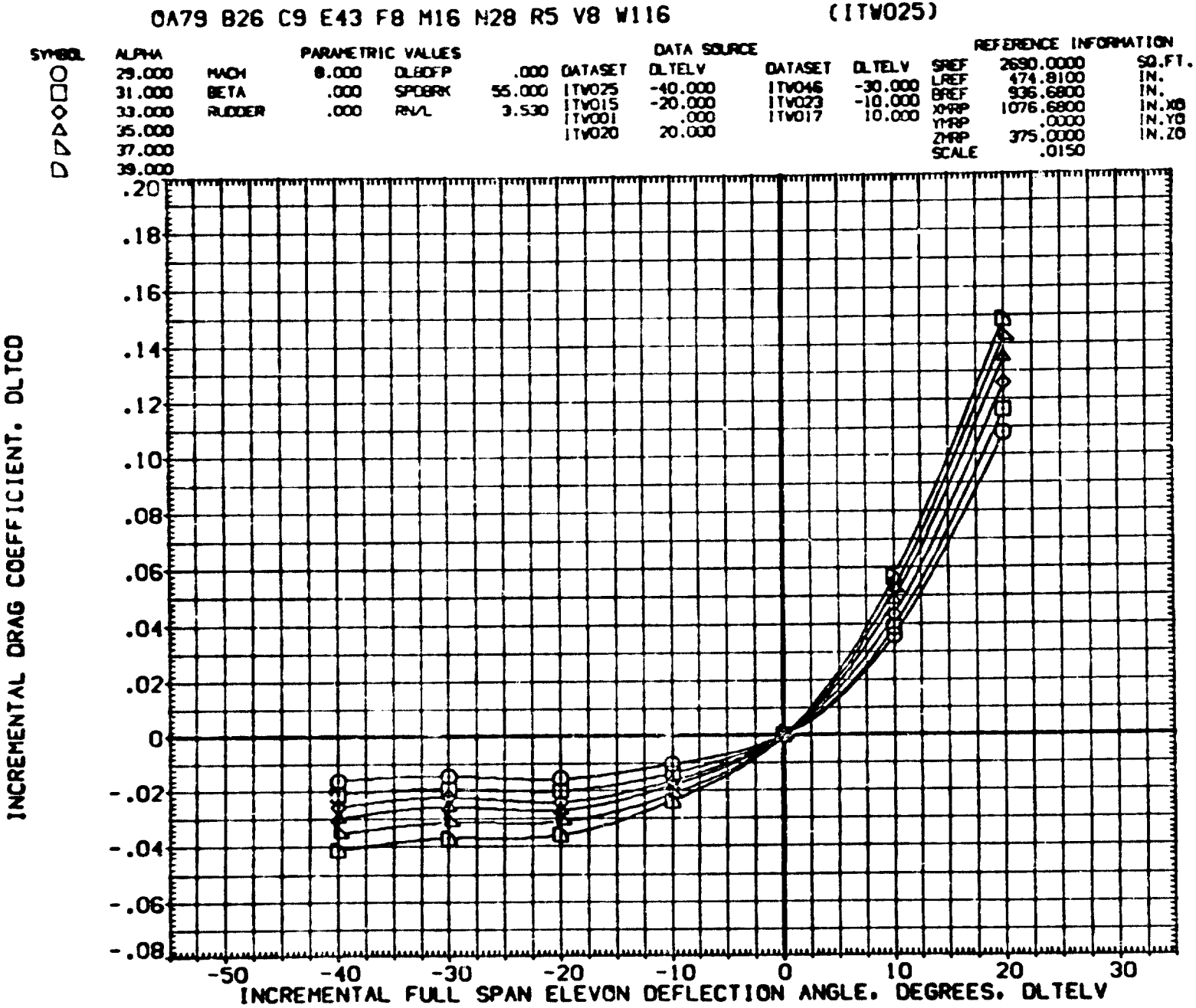


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (ITW025)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTELV	DATASET	DLTELV	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	ITW025	-40.000	ITW046	-30.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	ITW015	-20.000	ITW023	-10.000	BREF	936.6800	IN.
						ITW001	.000	ITW017	10.000	XMRP	1076.6800	IN.XB
						ITW020	20.000			YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

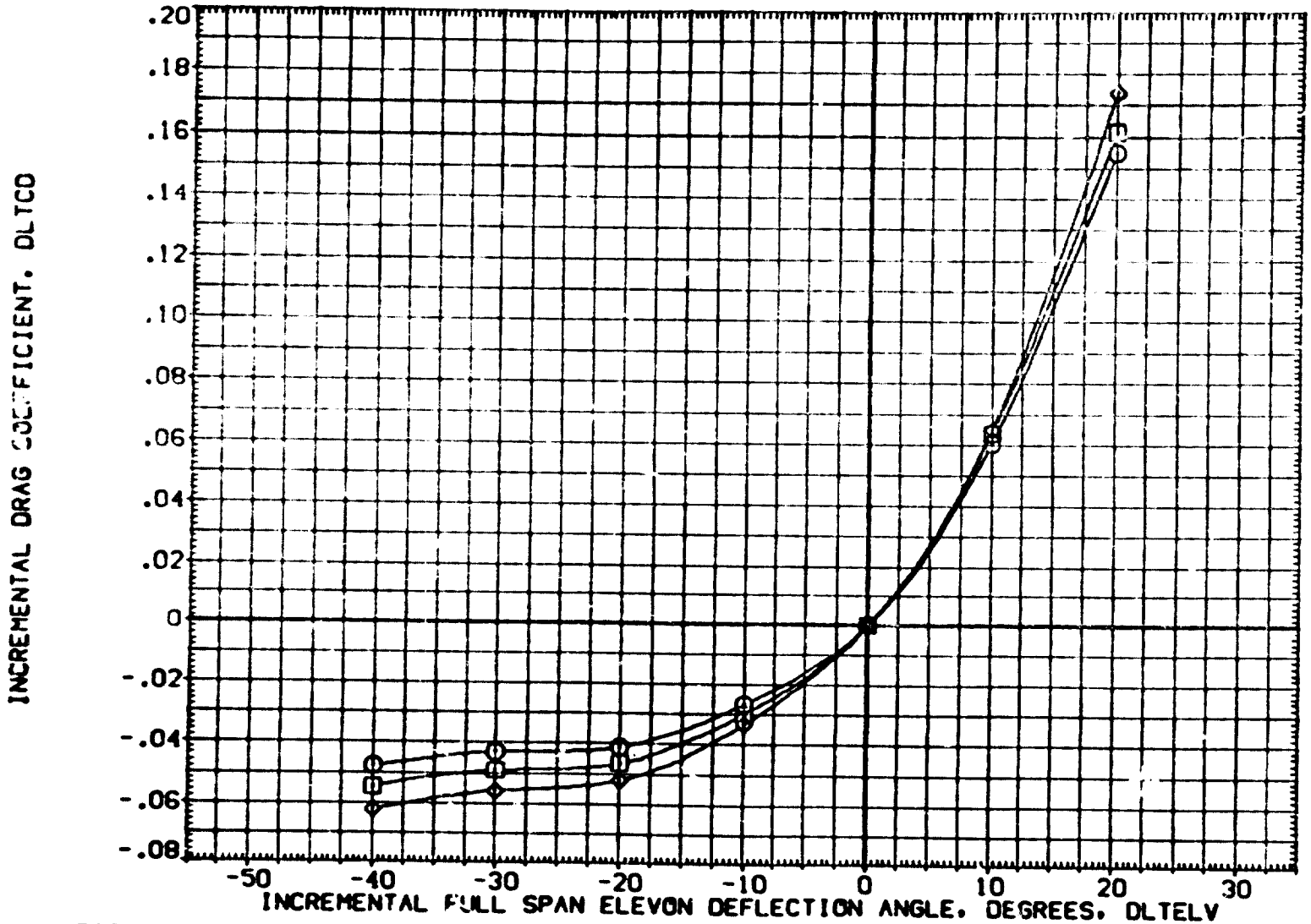


FIG. 8 INCREMENTAL EFFECTS OF ELEVON DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000
(CTV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

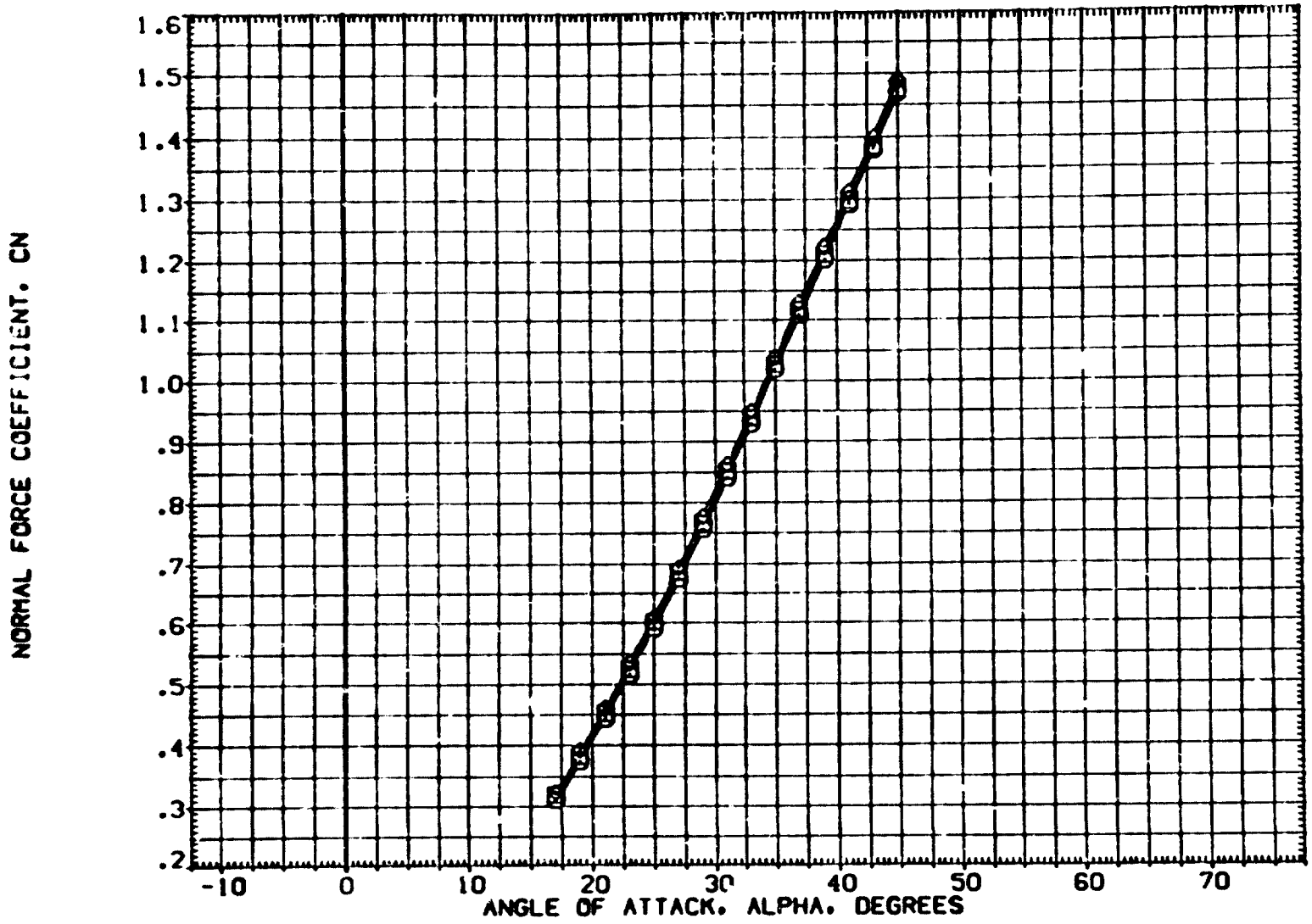


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-L0	ELV-L1	ELV-R1	ELV-R0
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

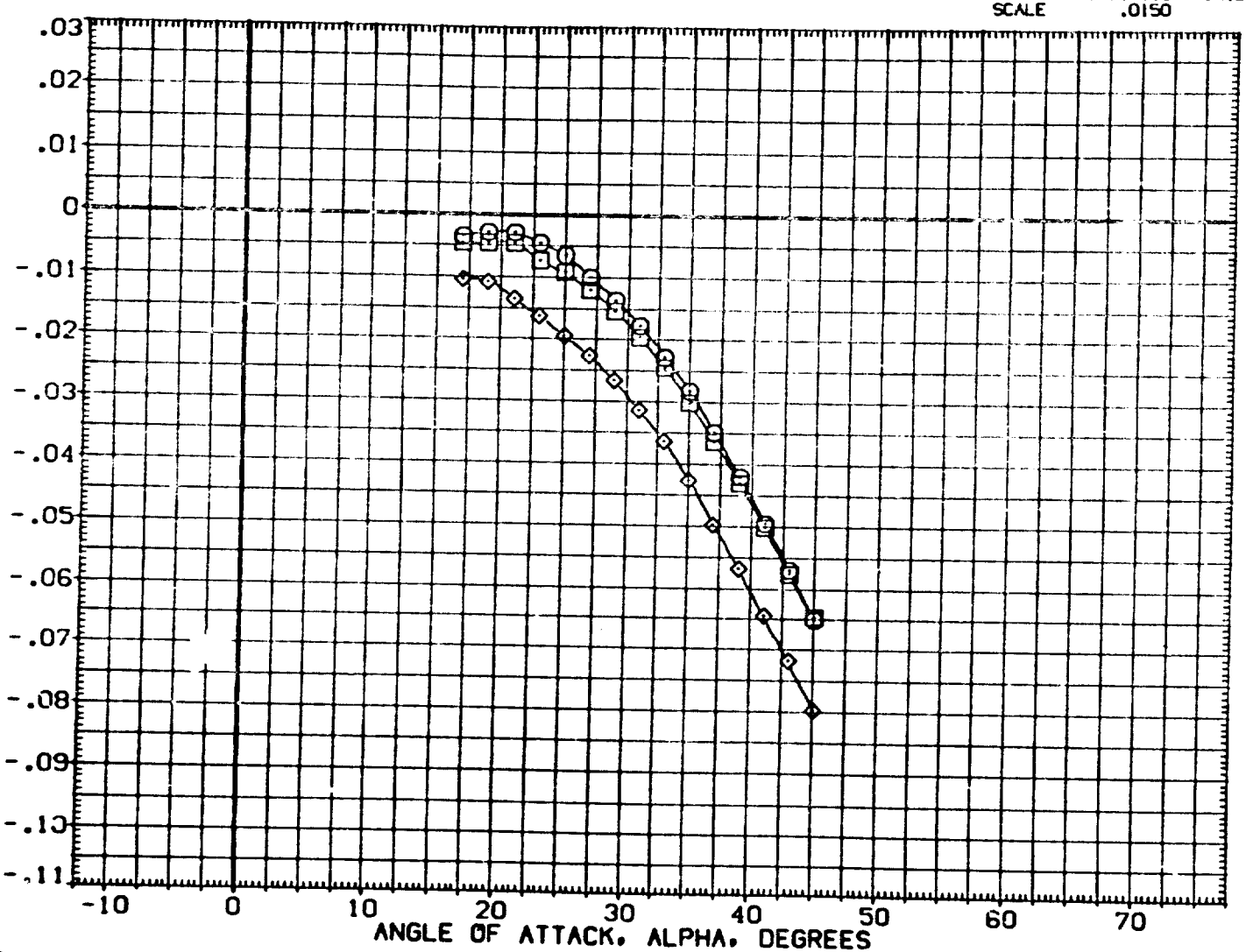


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTVC24)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

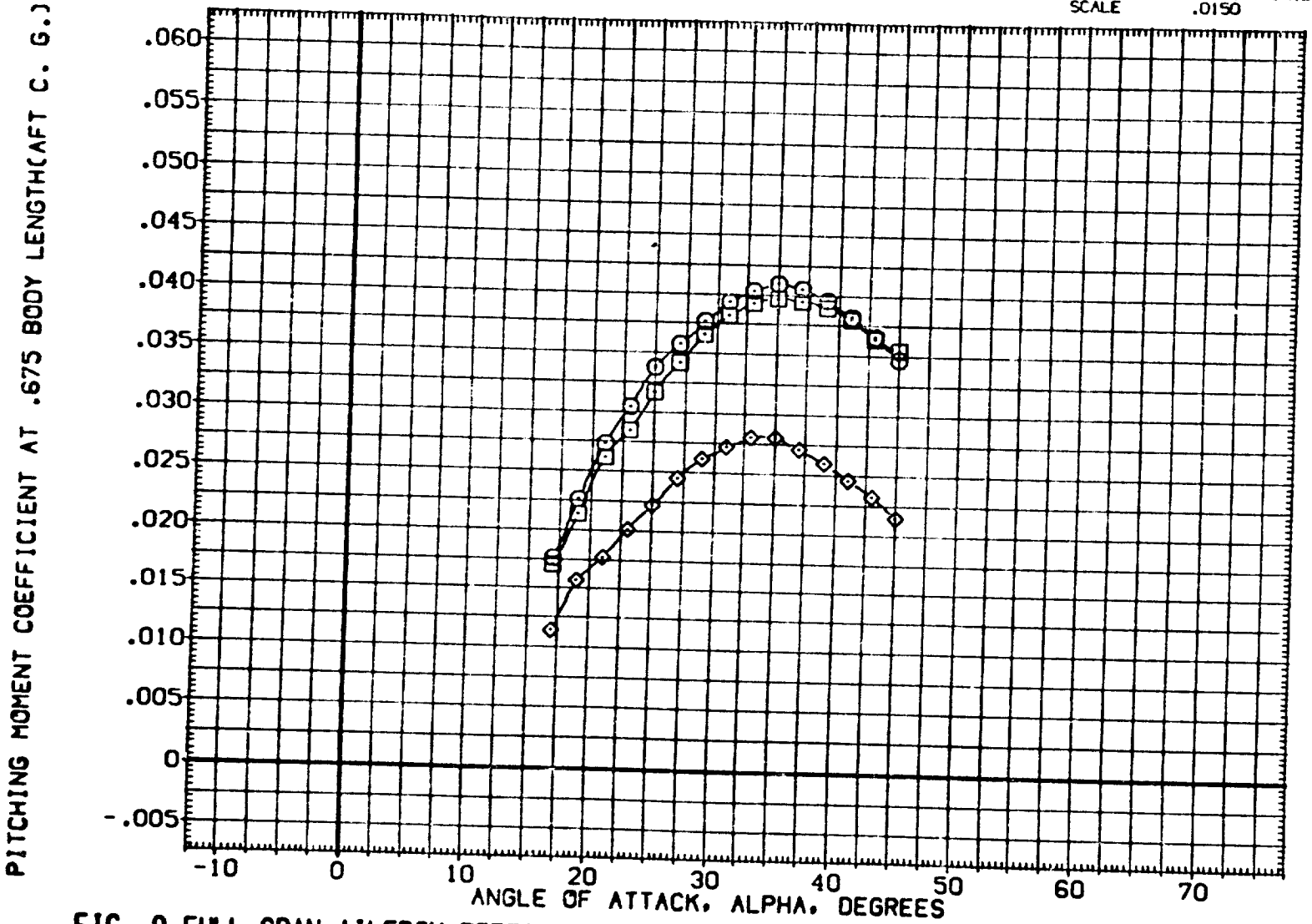


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

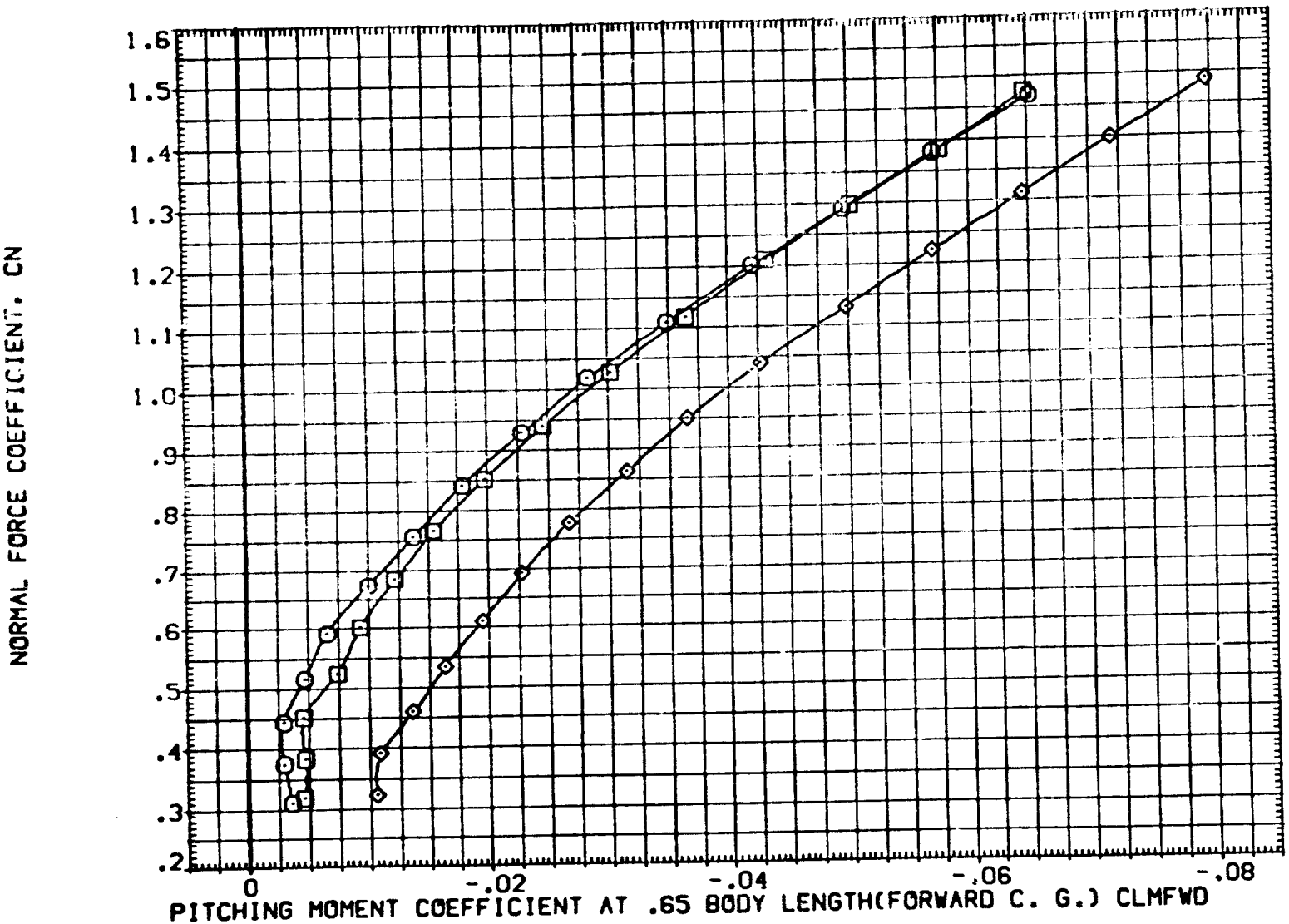


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B2G C9 E43 F8 M16 N28 R5 V8 V116
(CTV070)	□	0A79 B2E C9 E43 F8 M16 N28 R5 V8 V116
(CTV024)	◇	0A79 B2G C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

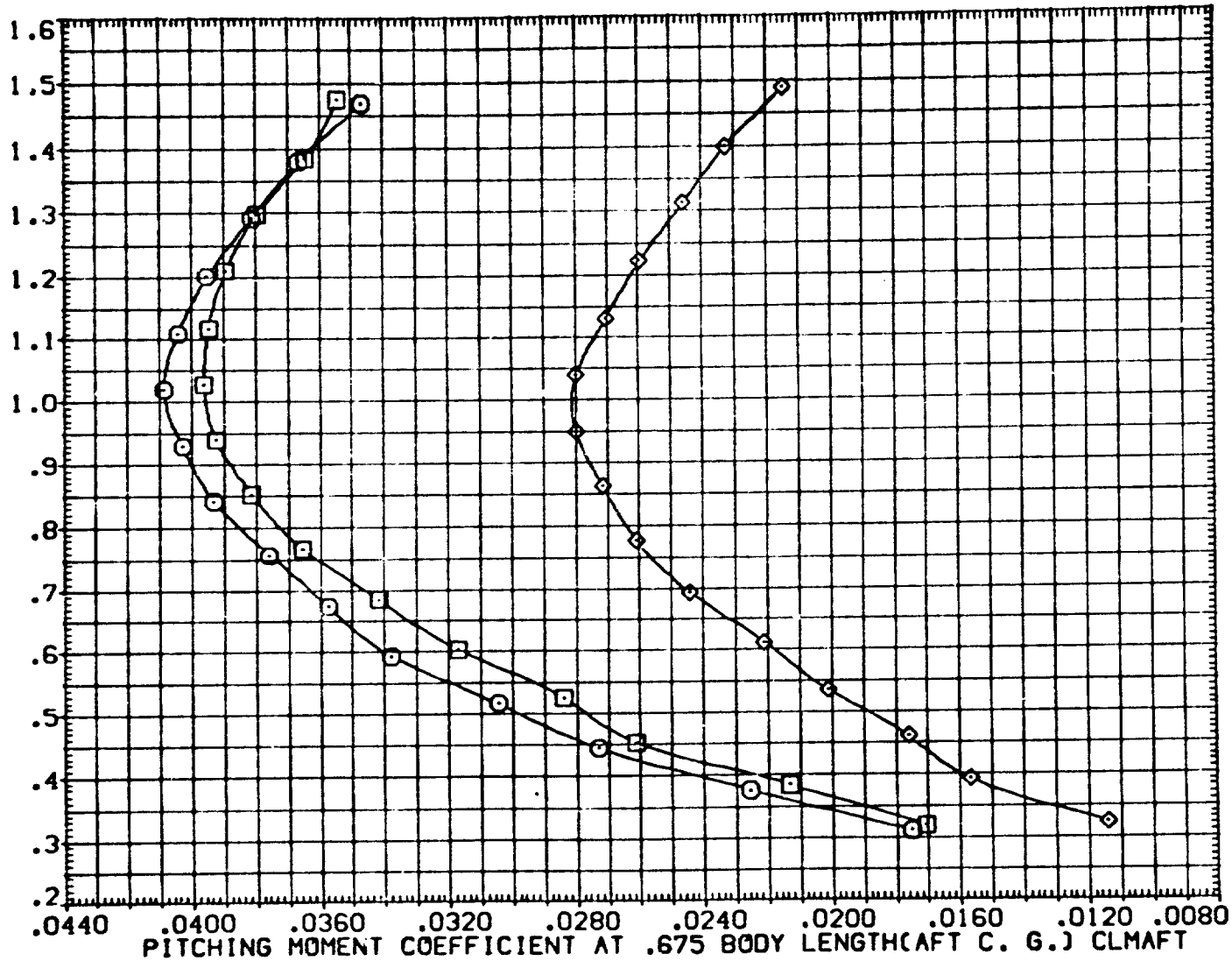


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV001)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV070)	▢	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000
(CTV024)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

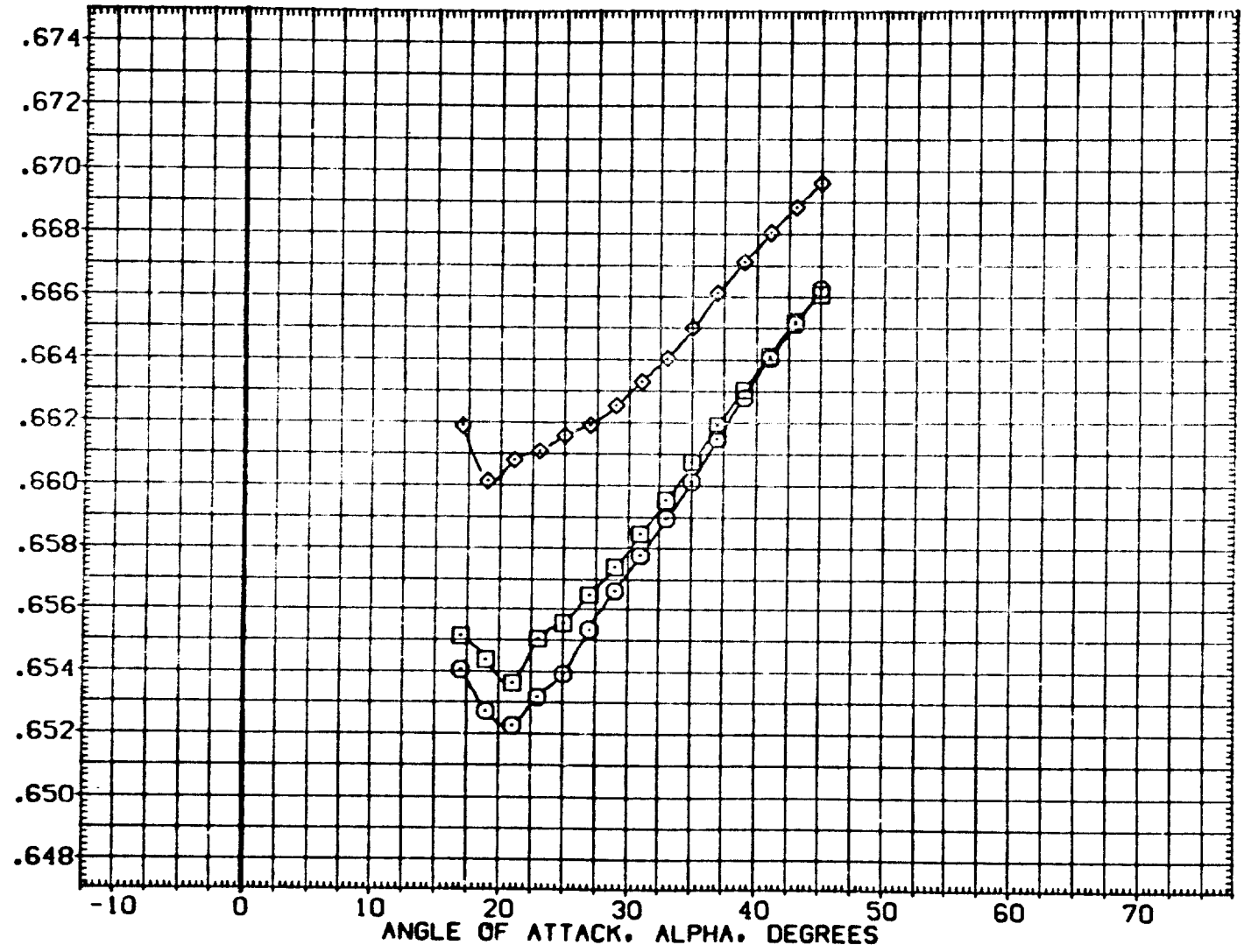


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

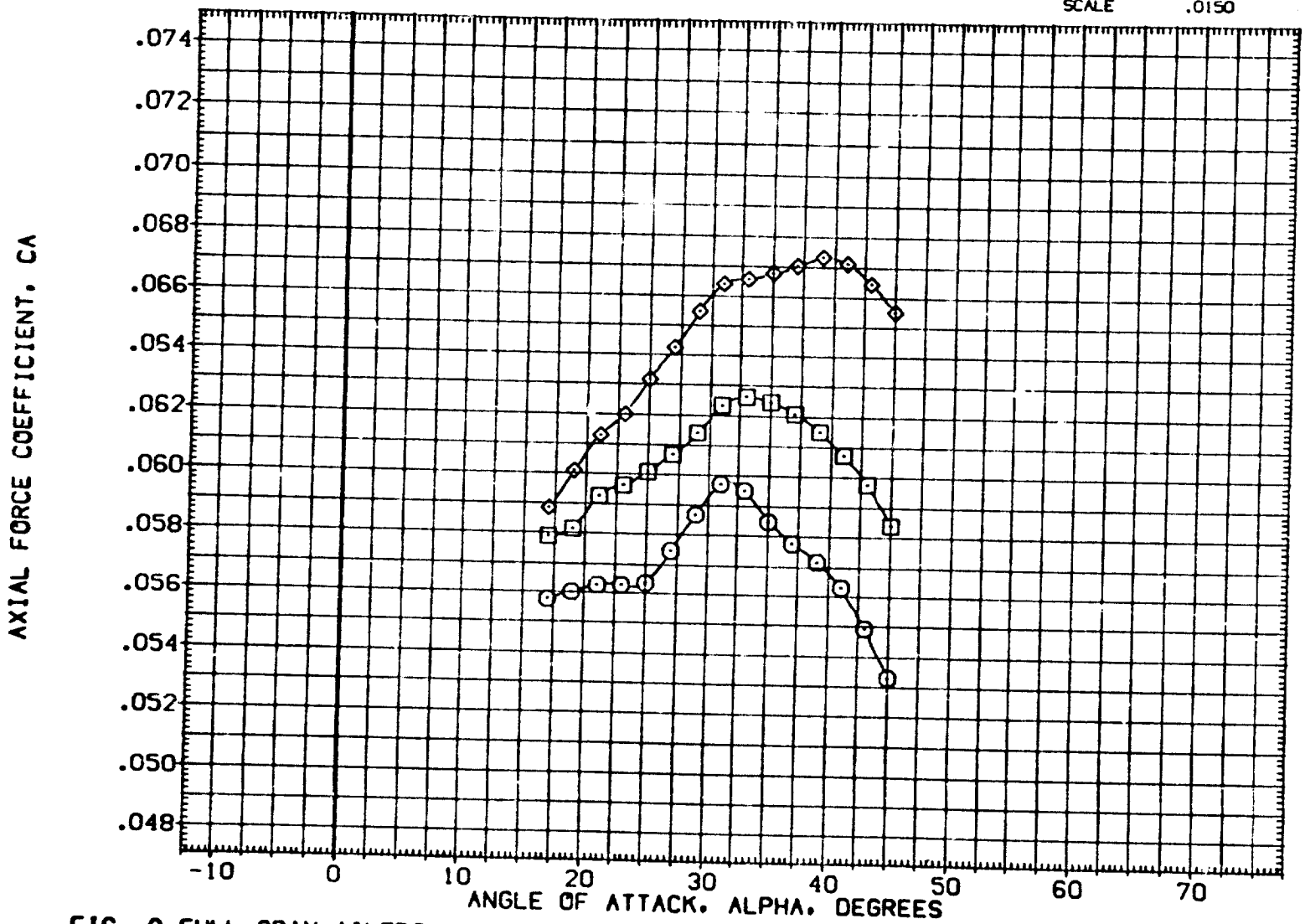


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

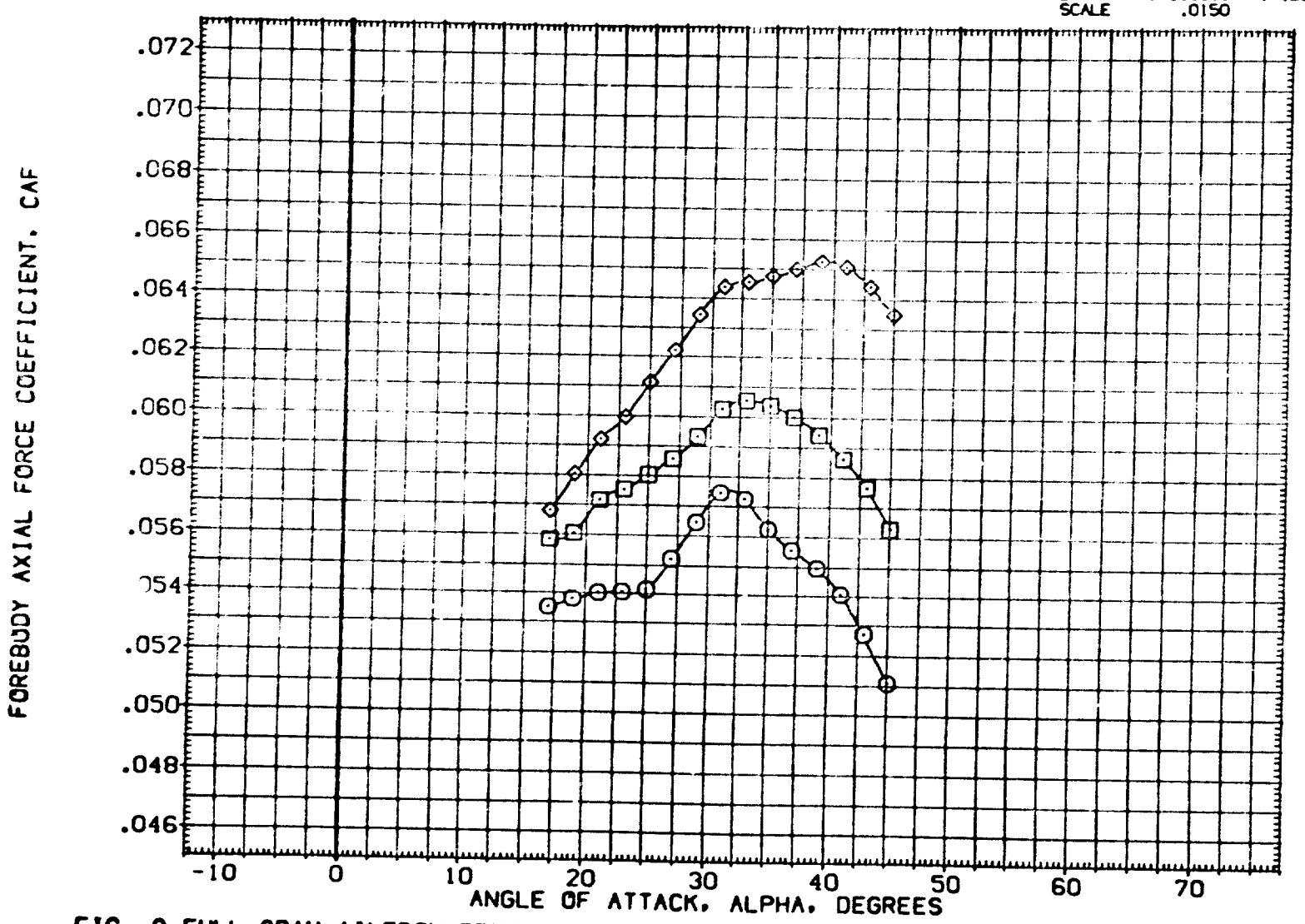


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTW001)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTW070)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTW024)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

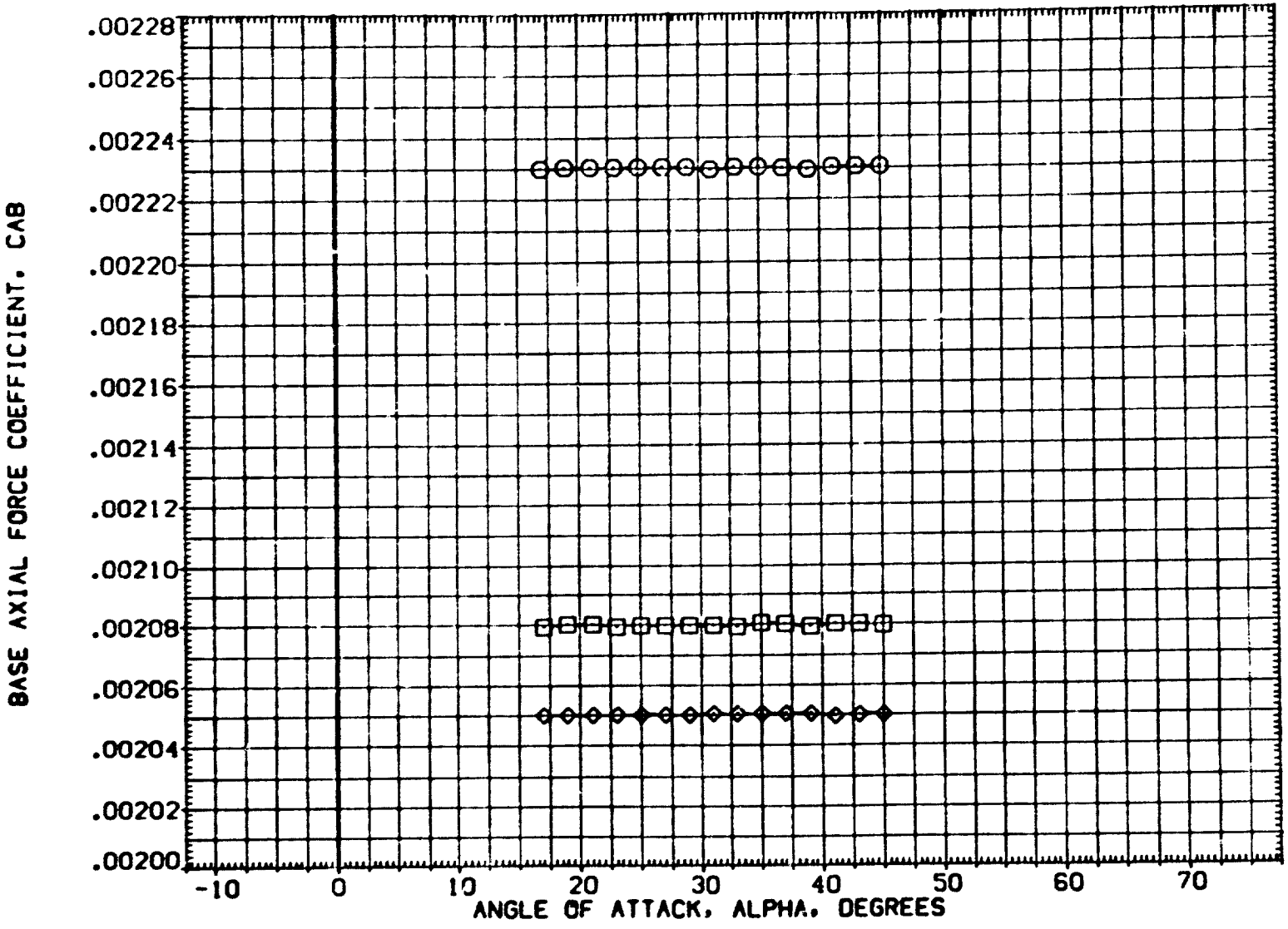


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[CTV001]	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
[CTV070]	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
[CTV024]	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2630.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

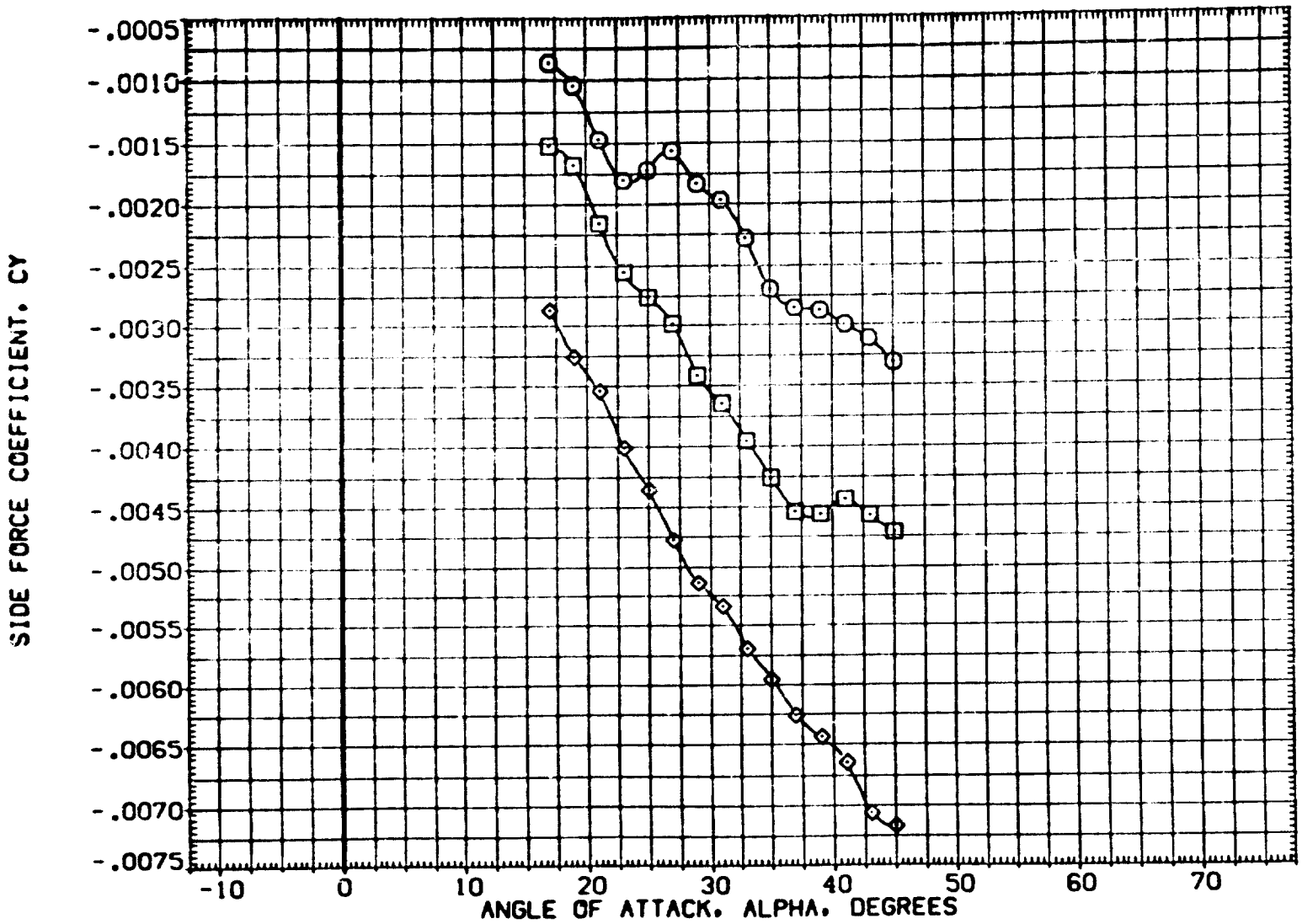


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(A)W001	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(A)W070	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-5.000	-5.000	5.000	5.000
(A)W024	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

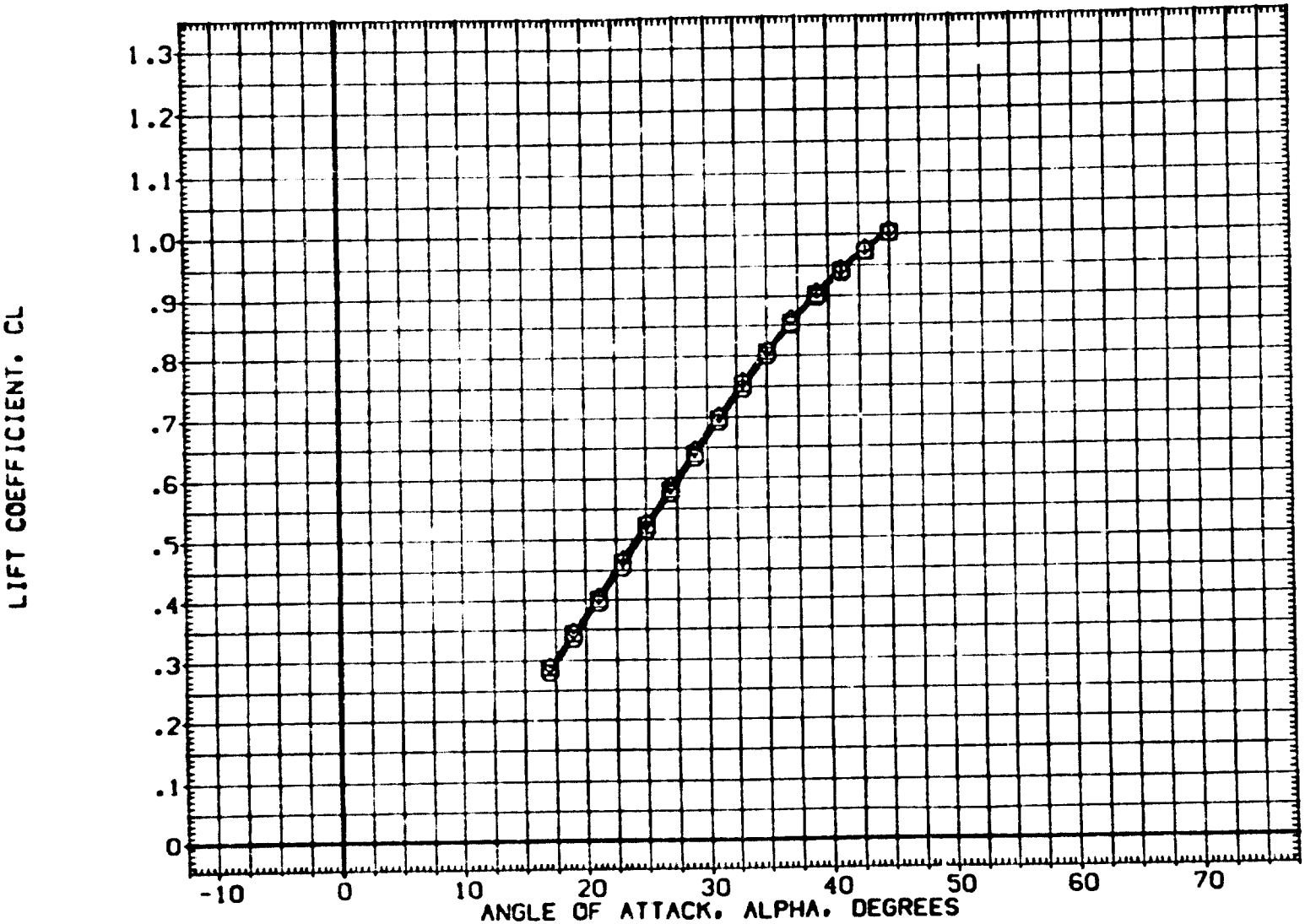


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

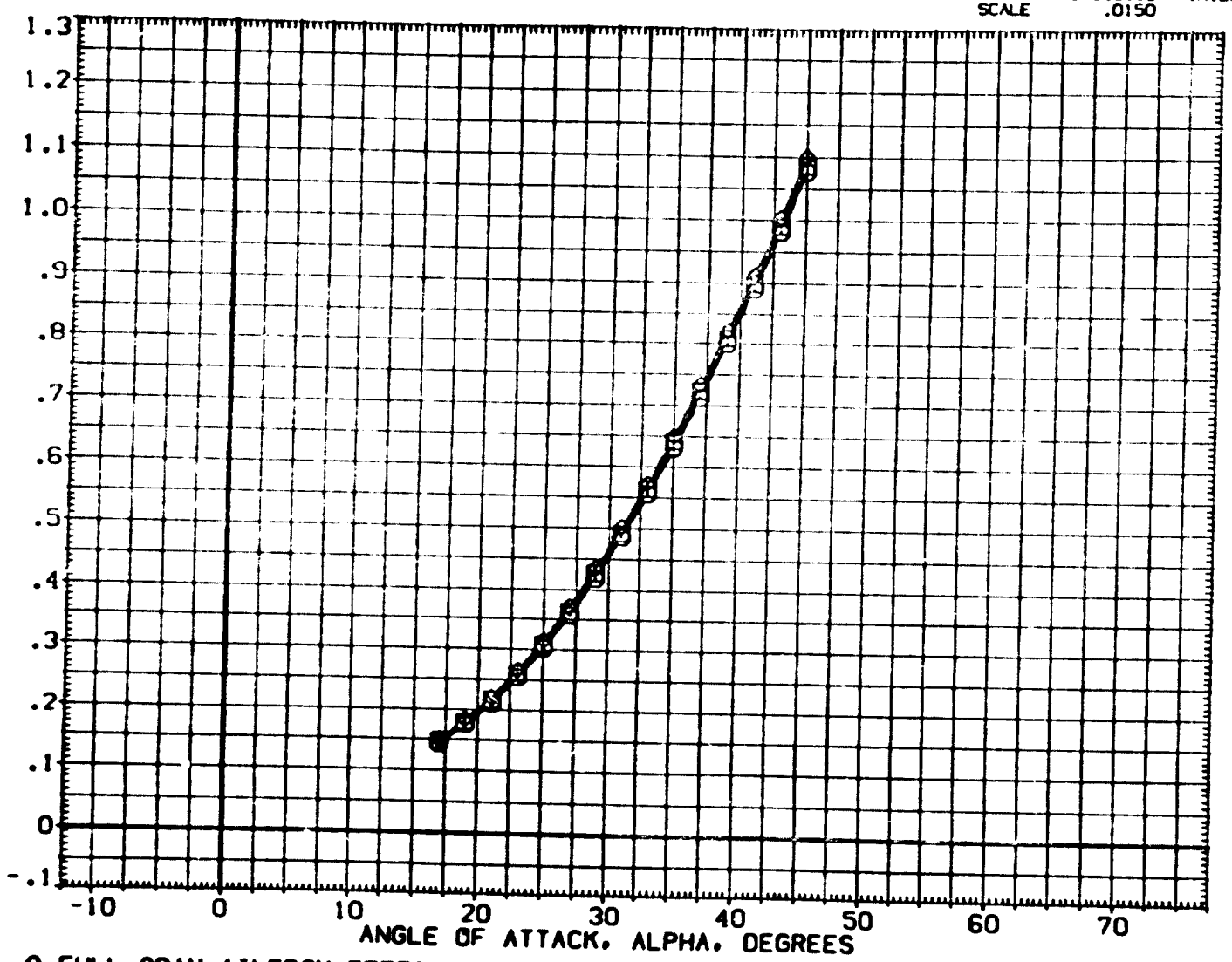


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW001)	○	0A79 B26 C9 E43 F9 M16 N28 R5 V8 W16
(ATW070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(ATW024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	.000	.000	.000
-5.000	-5.000	5.000	5.000
-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

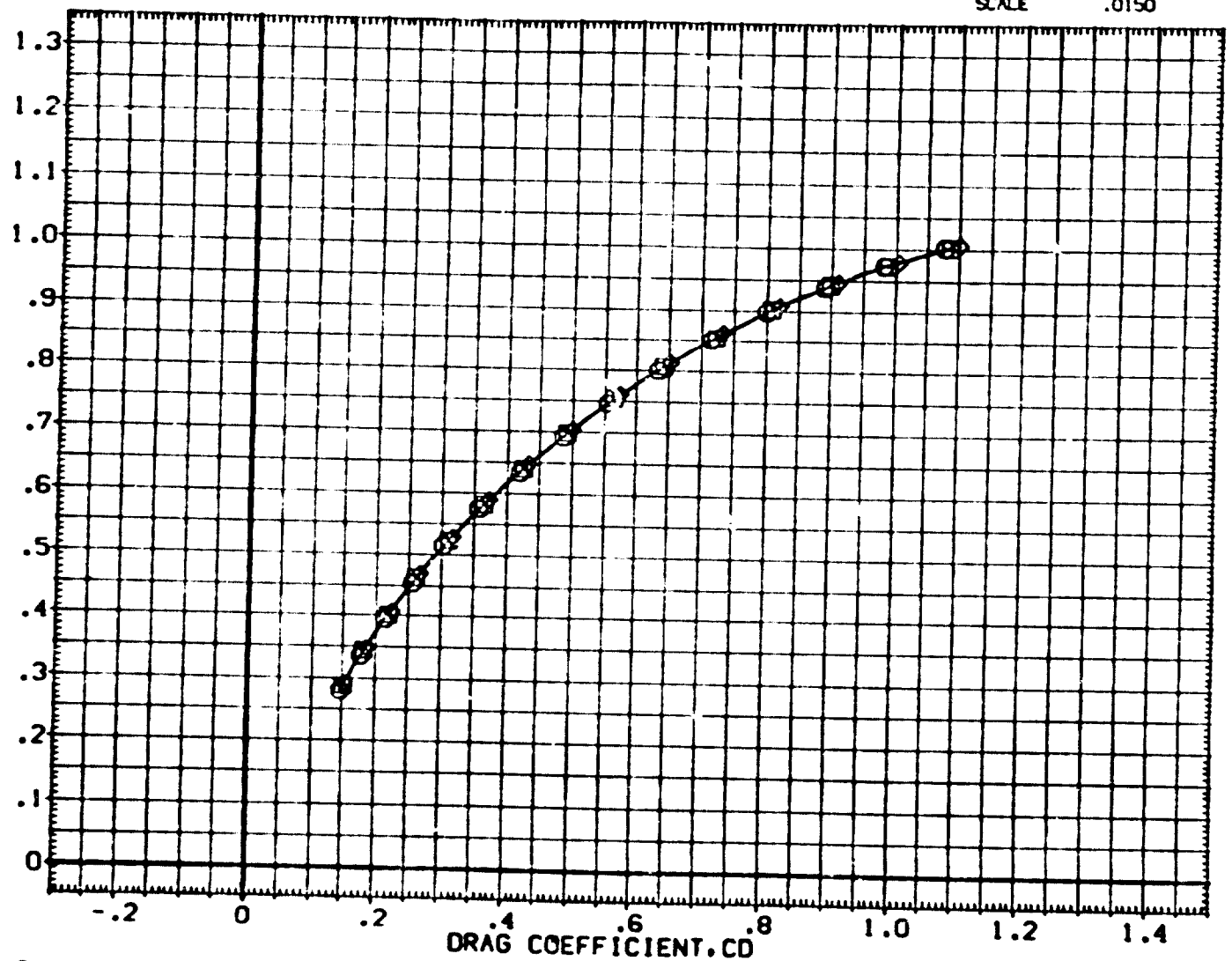


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV001)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(ATV070)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-5.000	-5.000	5.000	5.000
(ATV024)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	-10.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

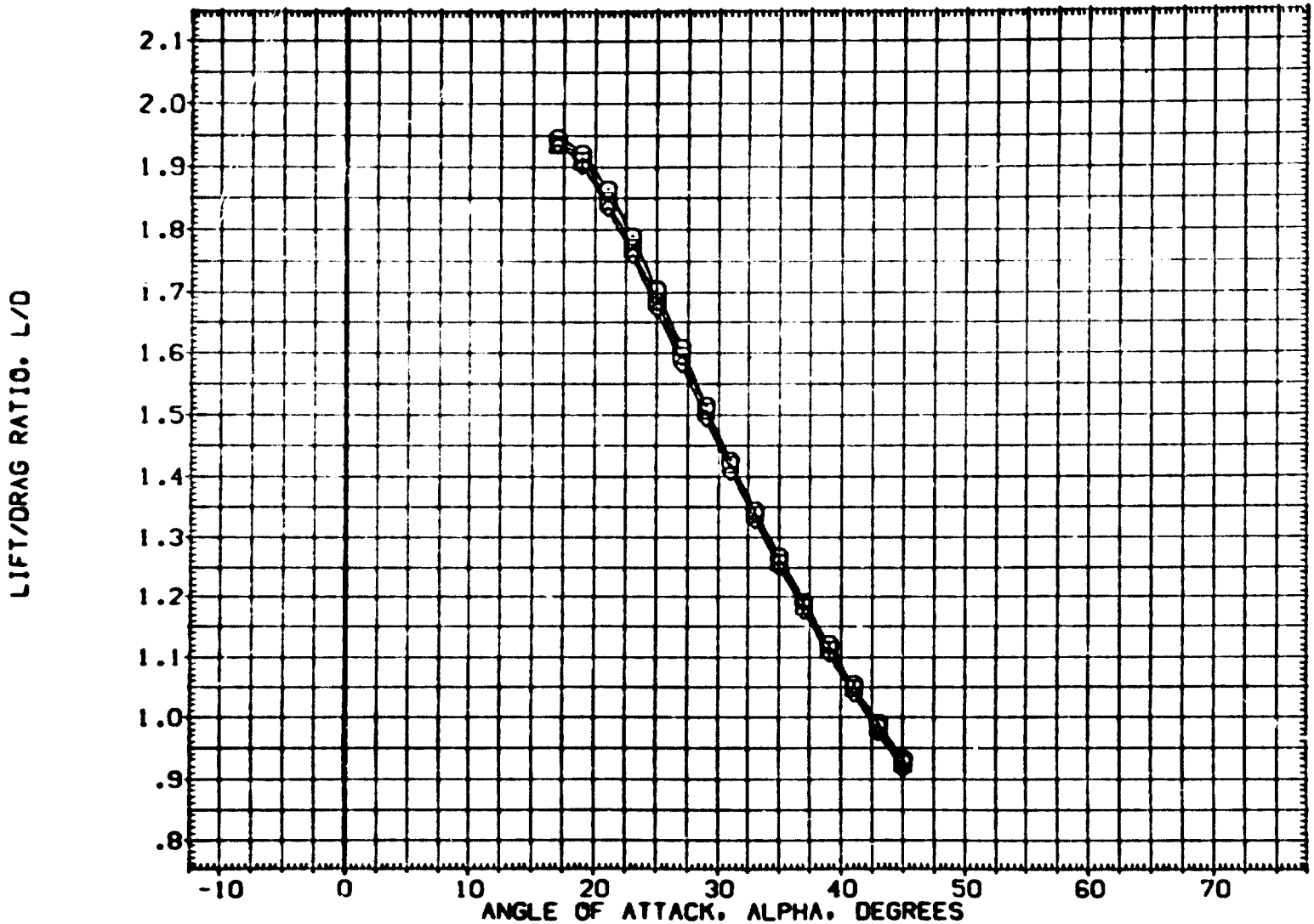


FIG. 9 FULL SPAN AILERON EFFECTIVENESS

(A)MACH = 8.00

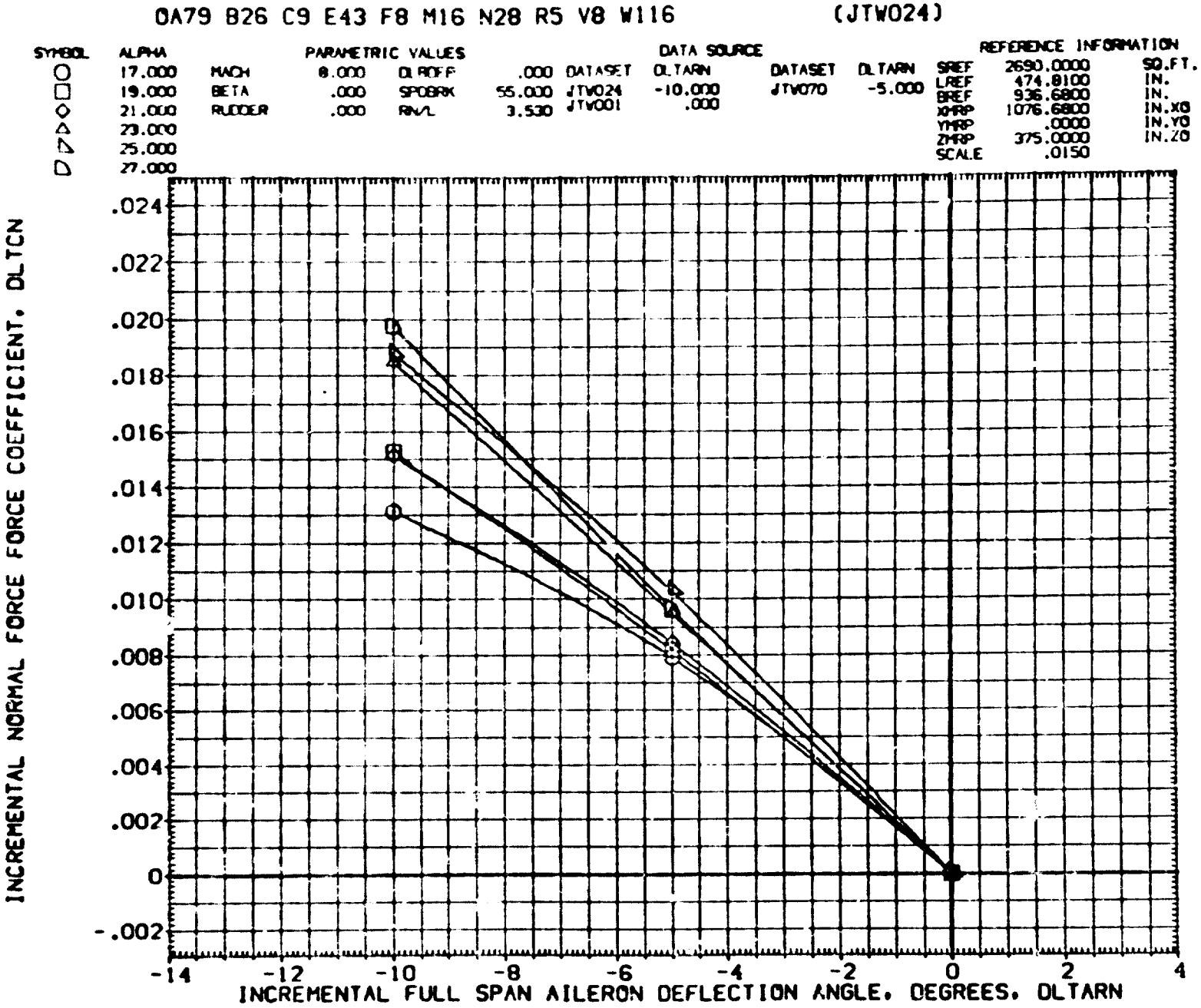


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	JTV024	-10.000	JTV070	-5.000	LREF	474.8100	IN.
◇	33.000	RUDDER	.000	RN/L	3.530	JTV001	.000			BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.XB
▽	37.000									YMRP	.0000	IN.YB
	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

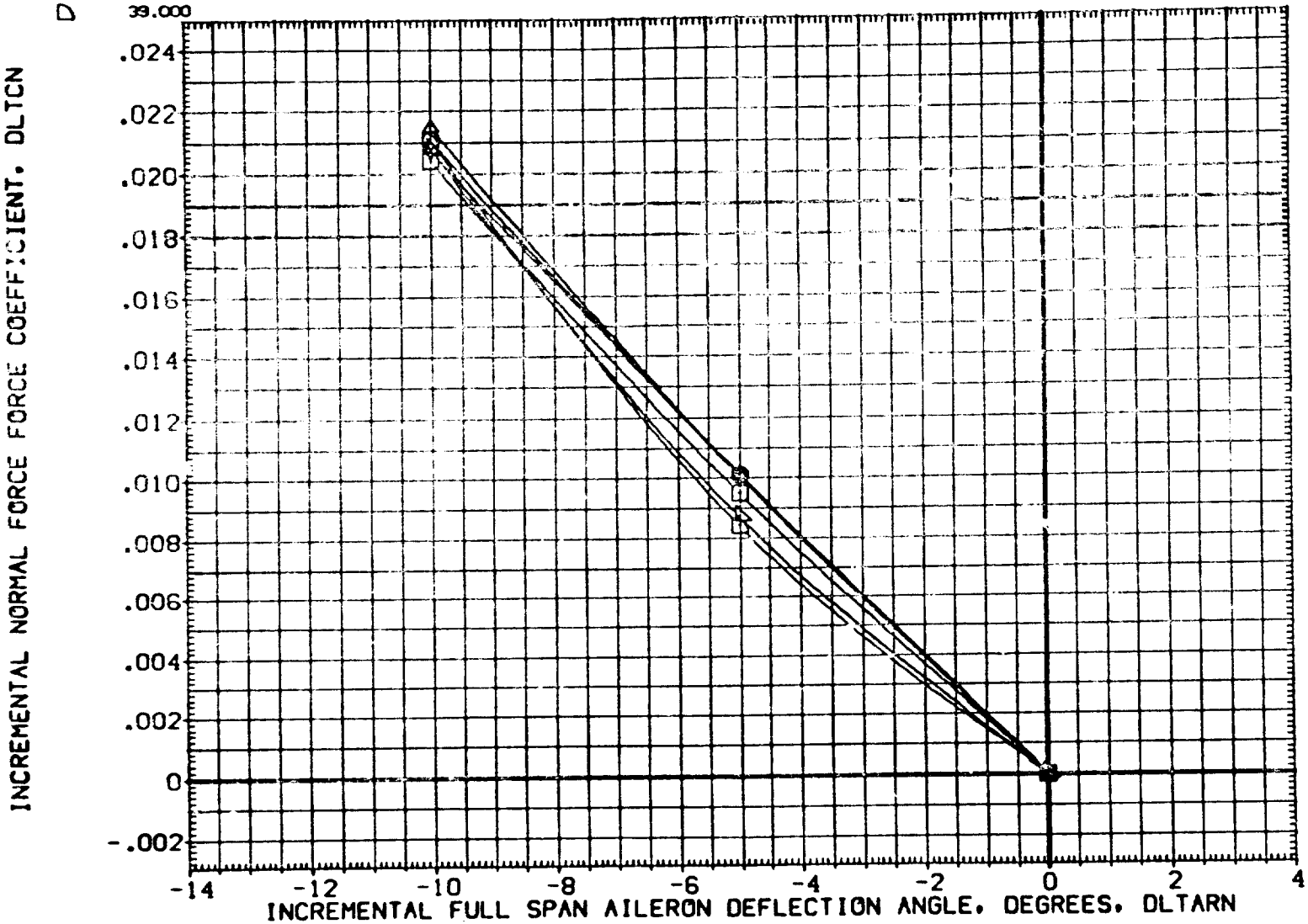


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

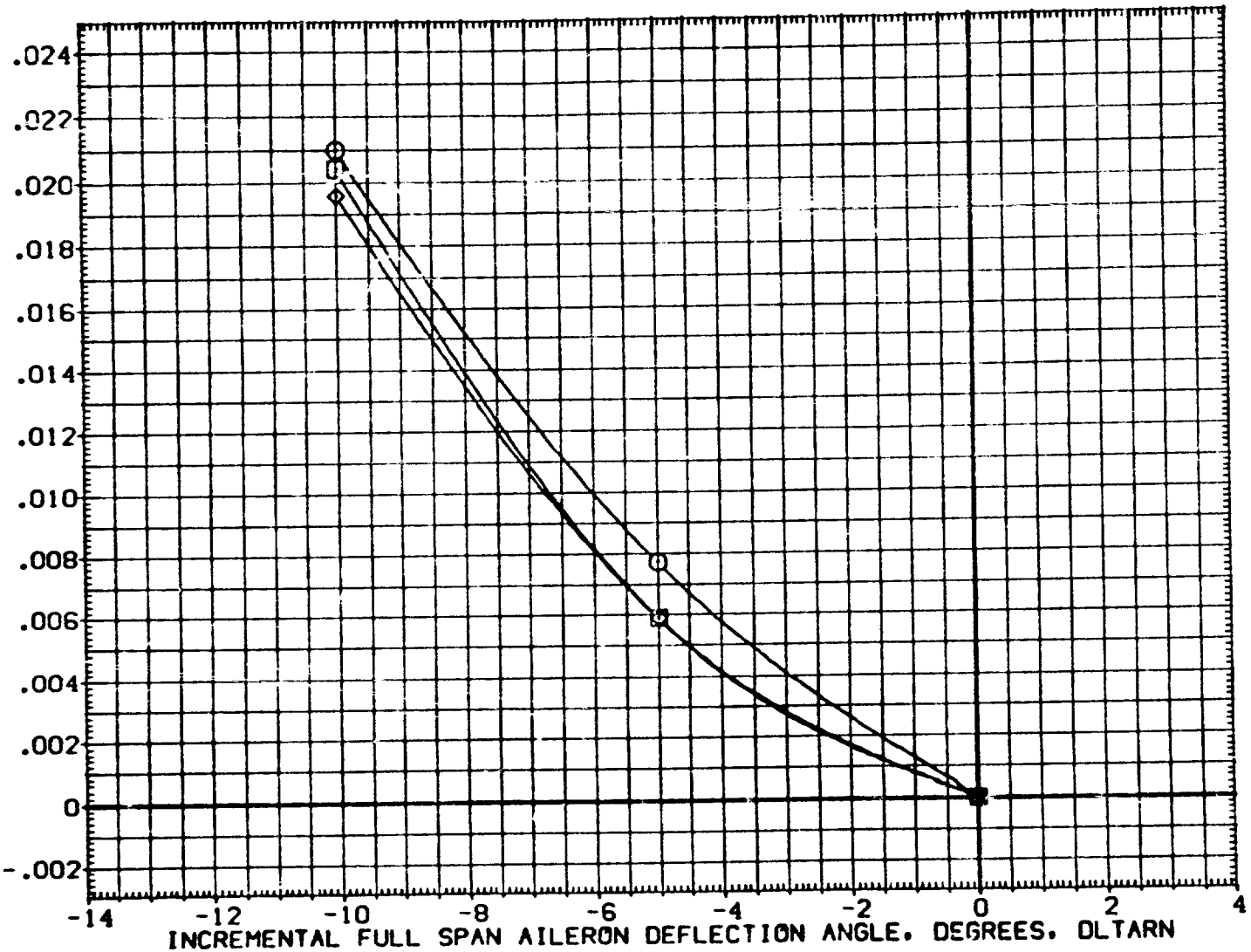


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.X0
▽	25.000									YMRP	.0000	IN.Y0
▷	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

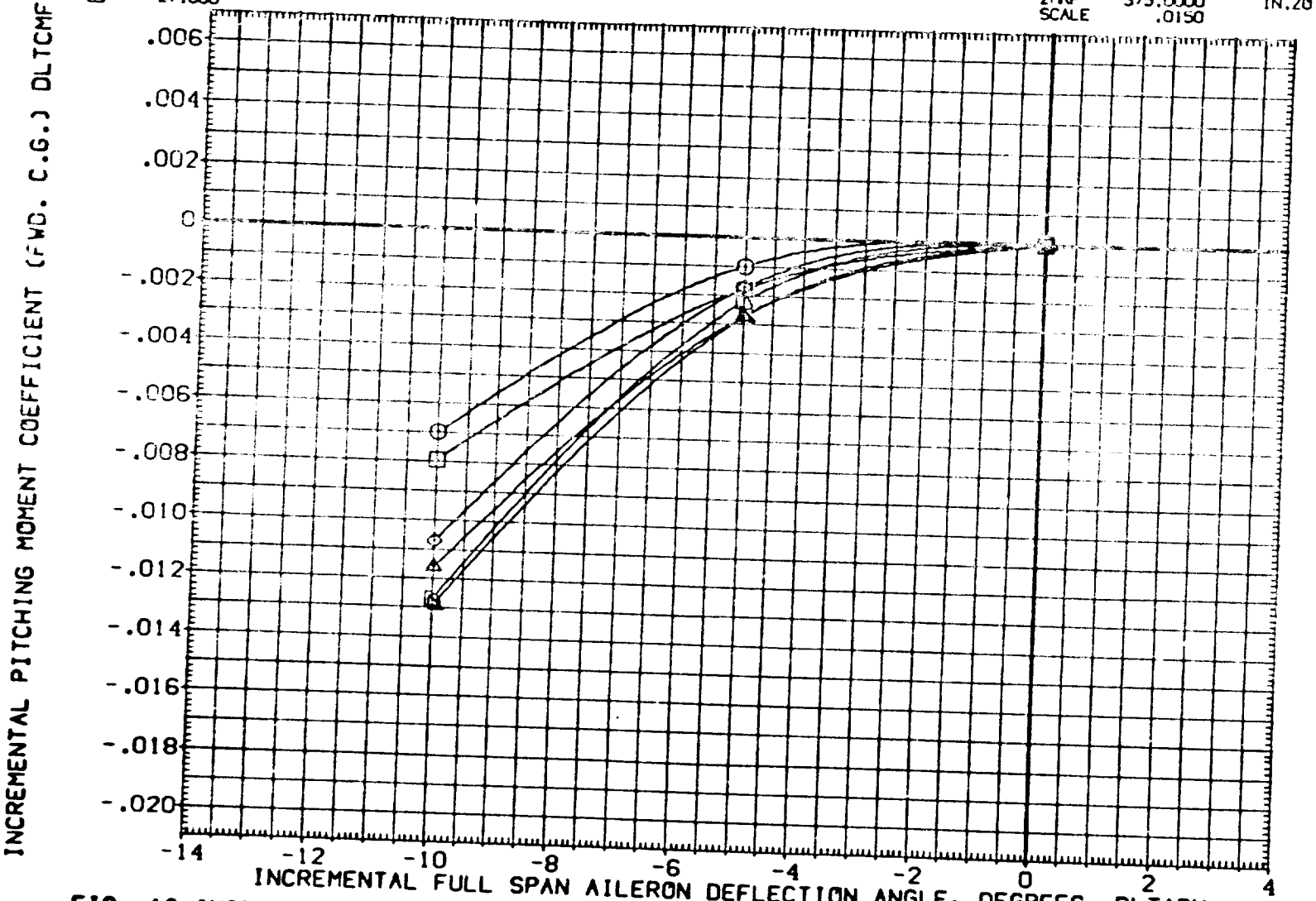


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

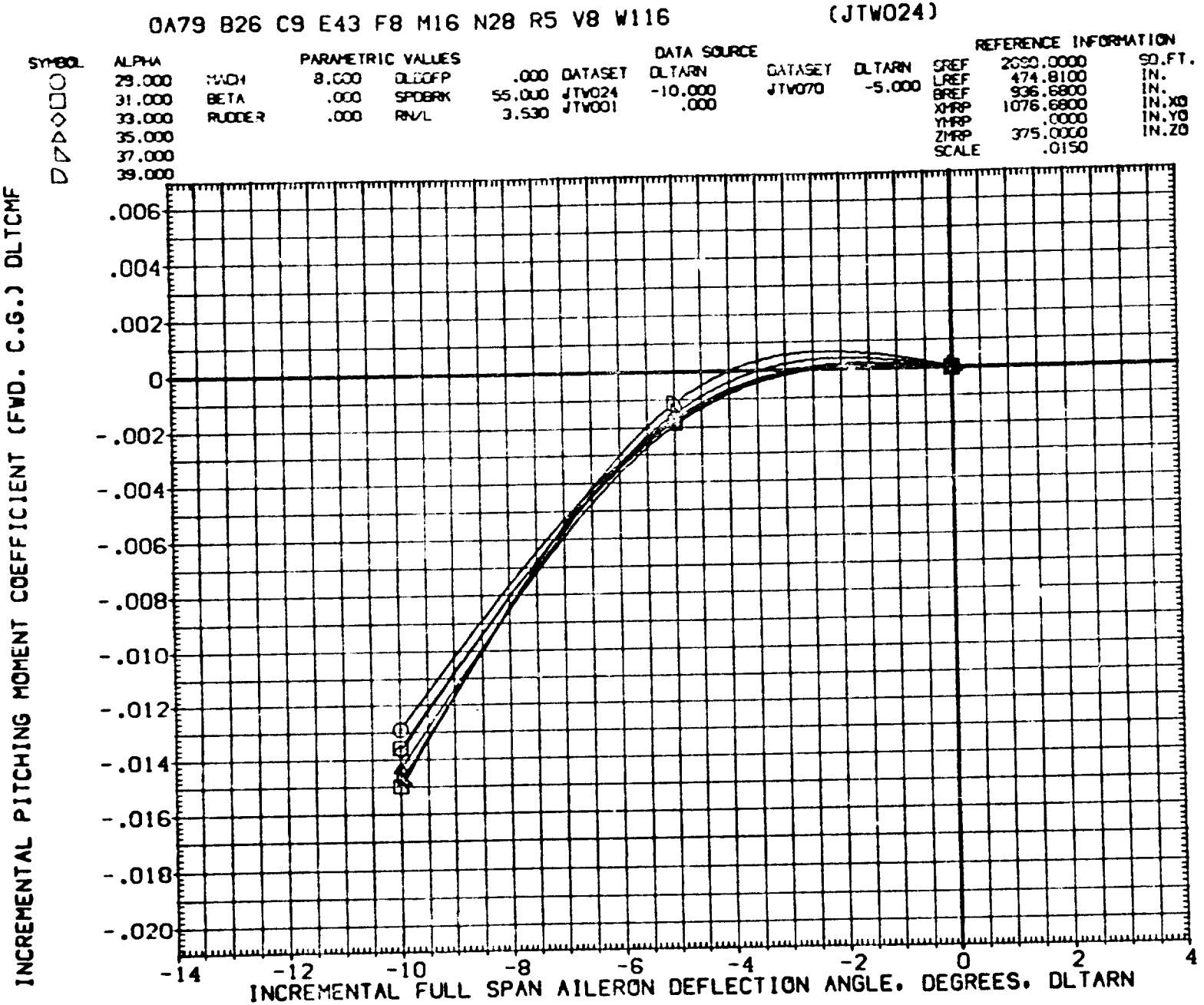


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPOBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

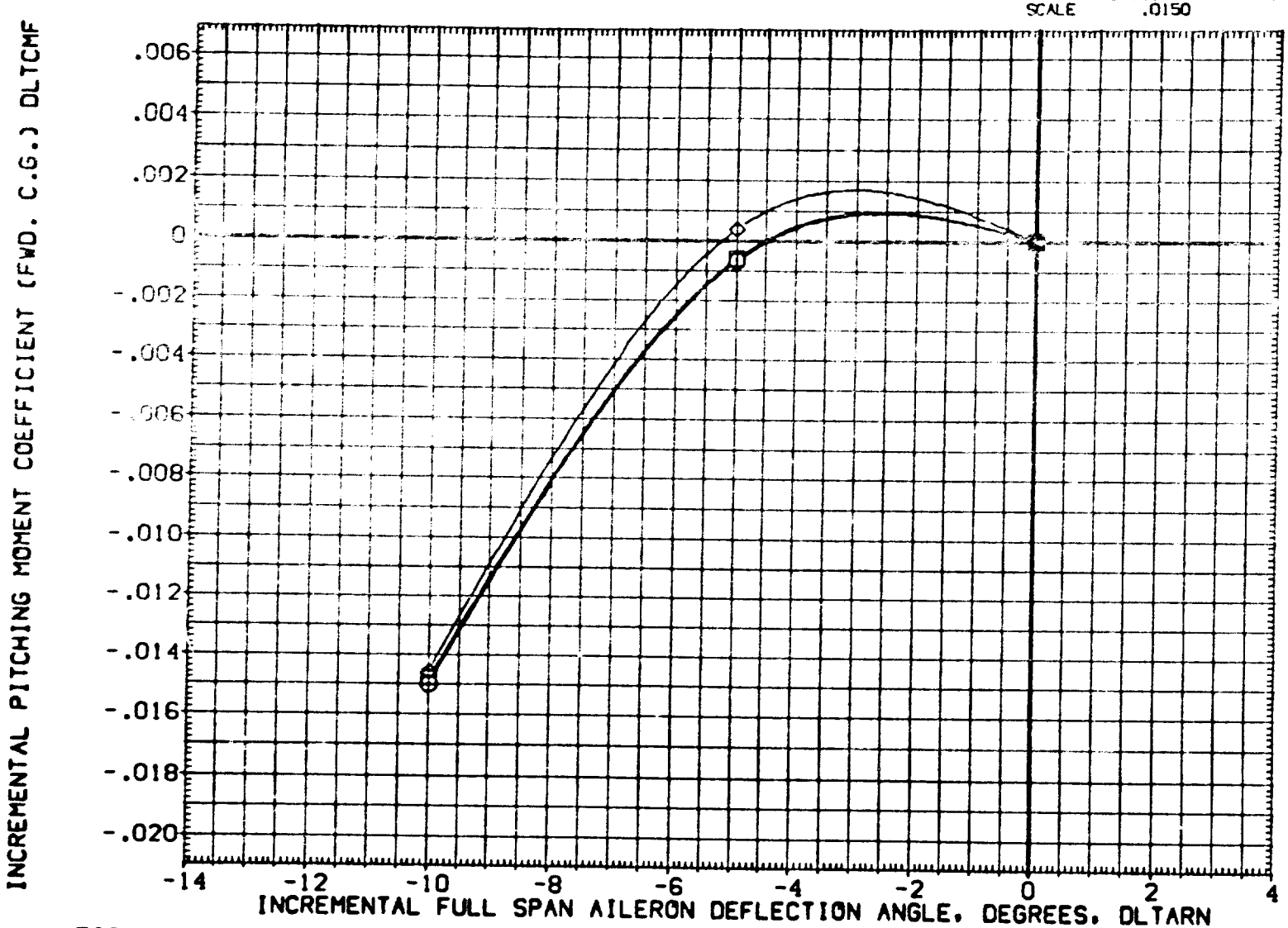


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

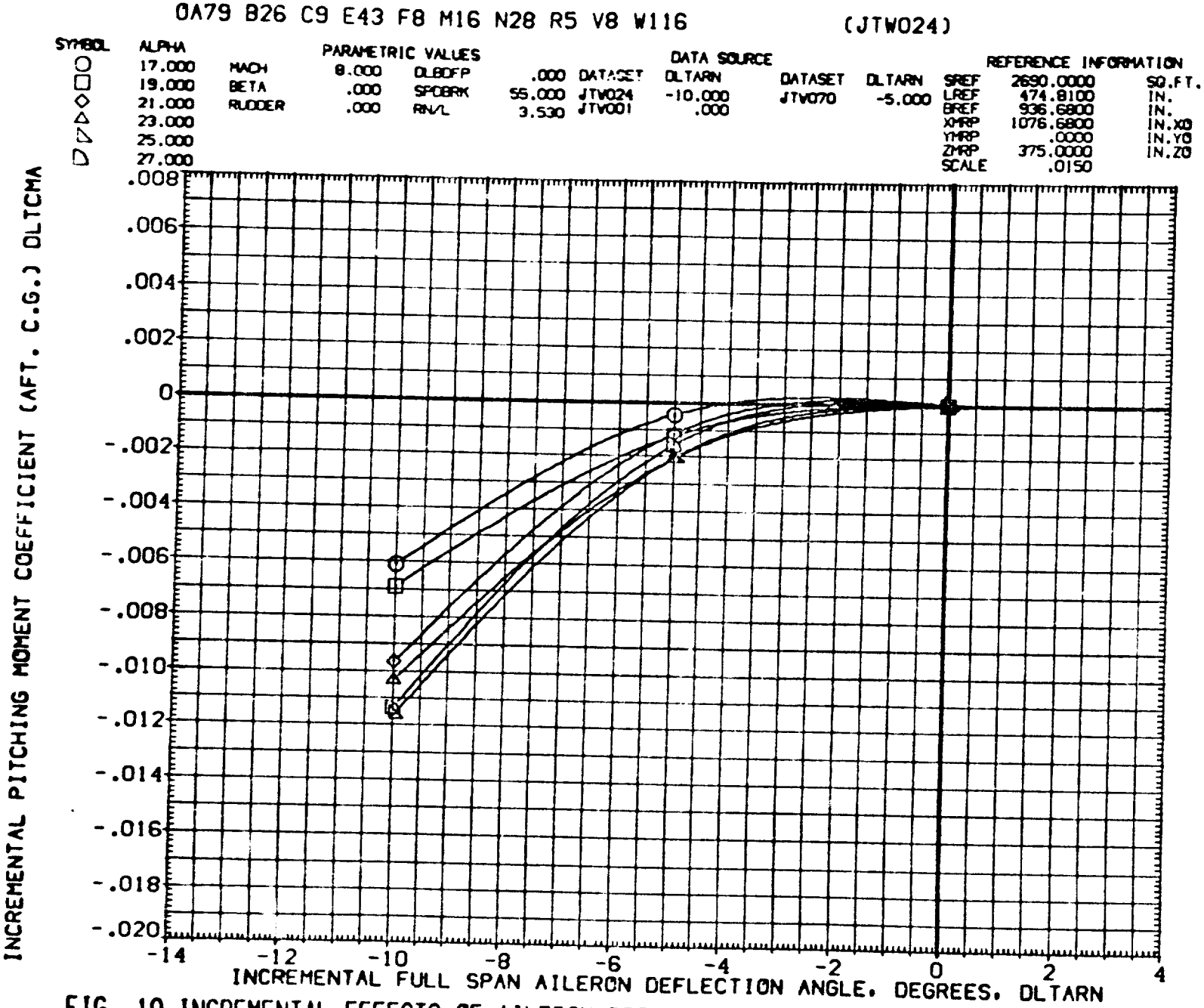


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTV070	-5.000	LREF	474.8100	IN.
◇	33.000	RUDDER	.000	RN/L	3.530	JTV001	.000			BREF	936.6800	IN.
△	35.000									XMRP	1076.5300	IN.XB
▽	37.000									YMRP	.0000	IN.YB
▷	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

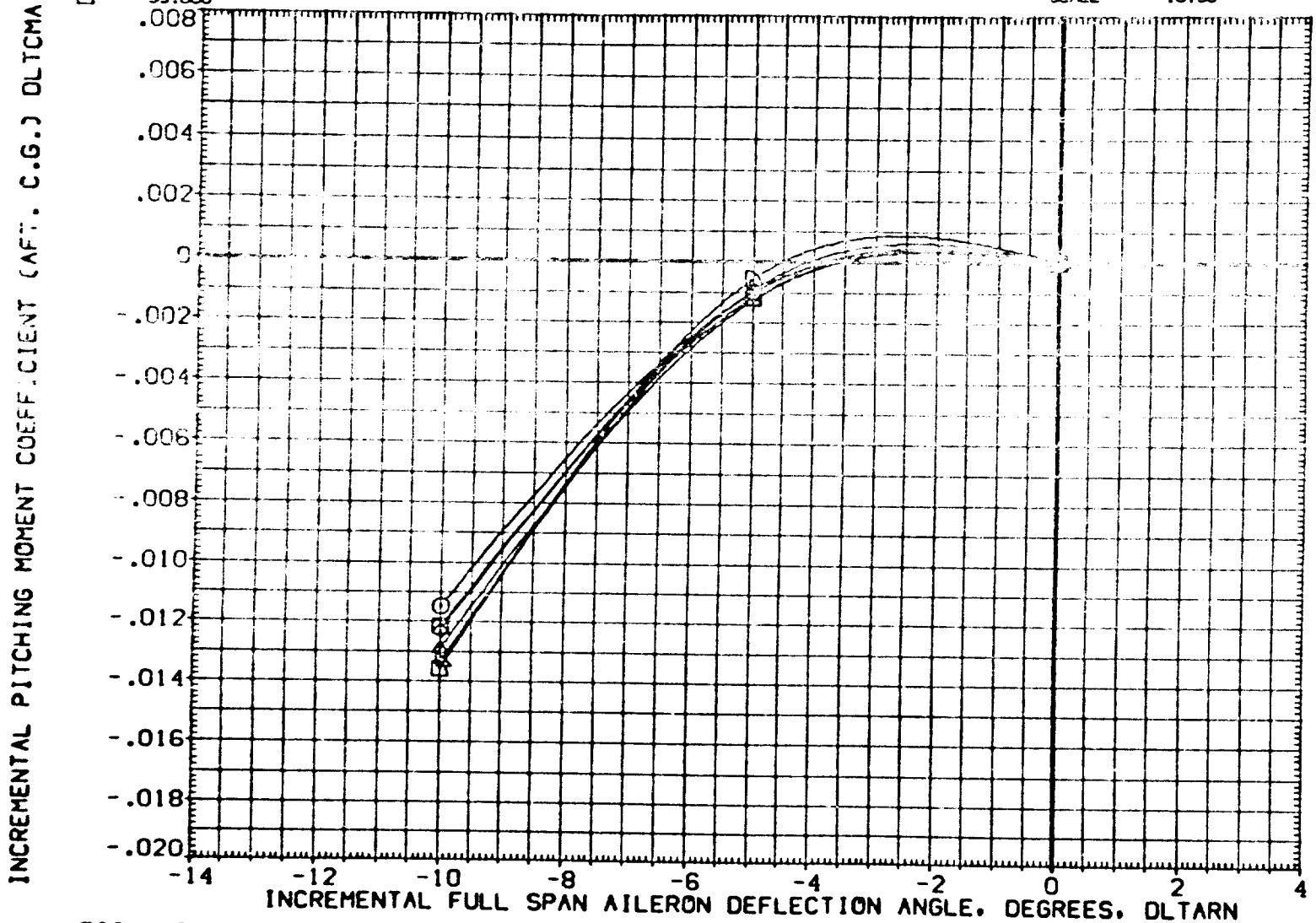


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPOBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNVL	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

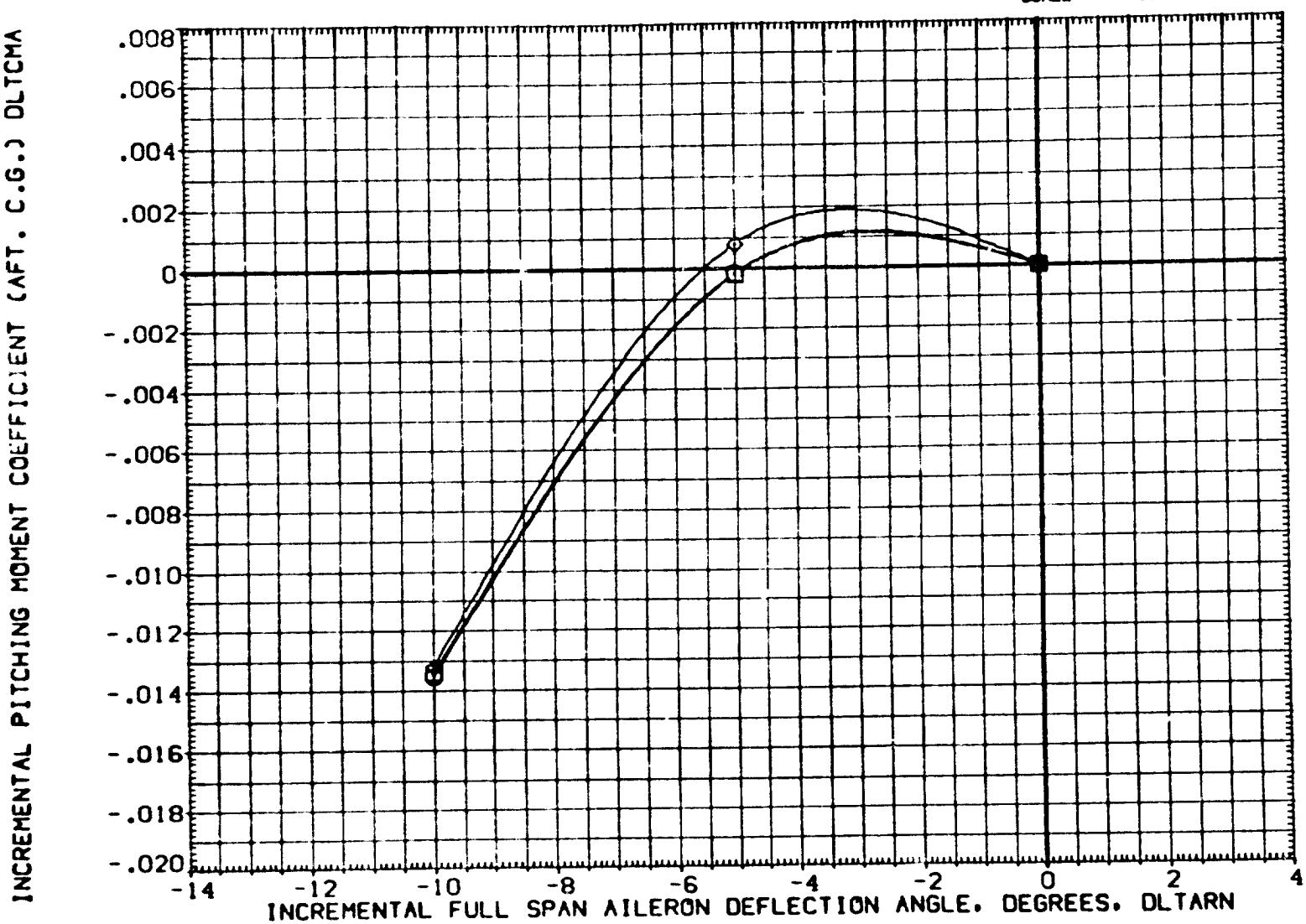


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SPOBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RNVL	3.530	JTW001	.000			BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.X0
▷	25.000									YMRP	.0000	IN.Y0
	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

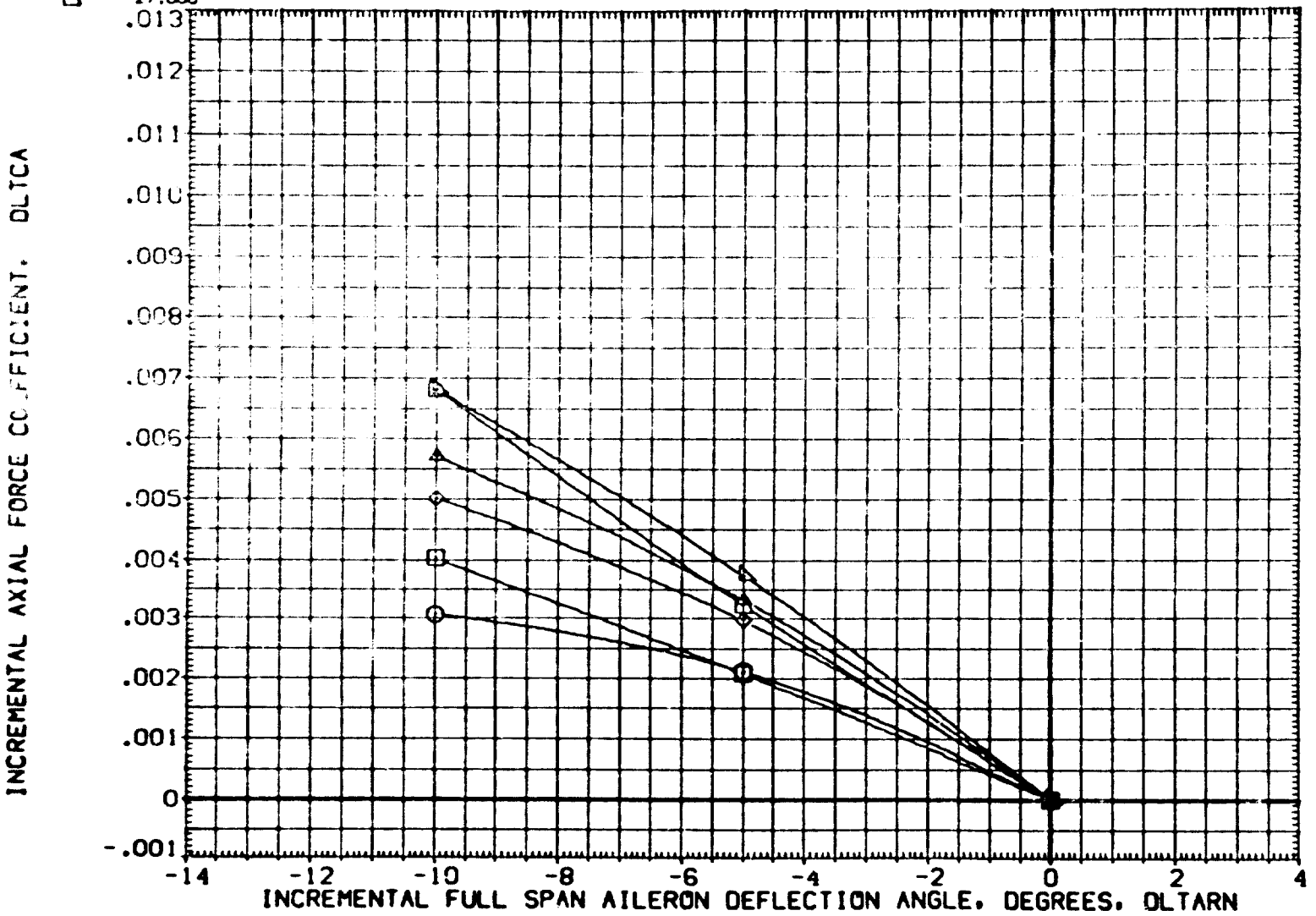


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	33.000	RUDDER	.000	RNYL	3.530	JTW001	.000			BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.XB
◺	37.000									YMRP	.0000	IN.YB
▱	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

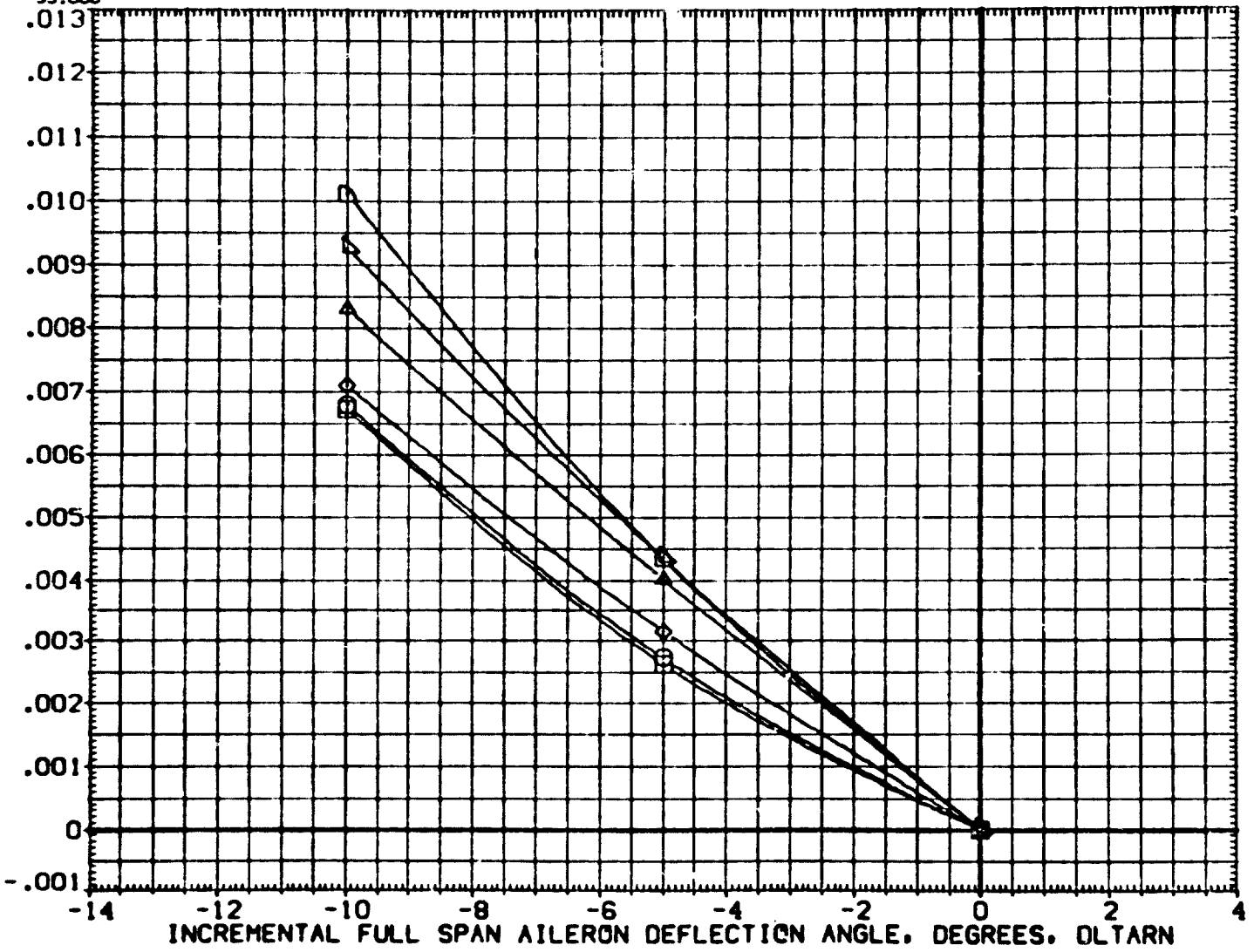


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLGCFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2000.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNYL	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

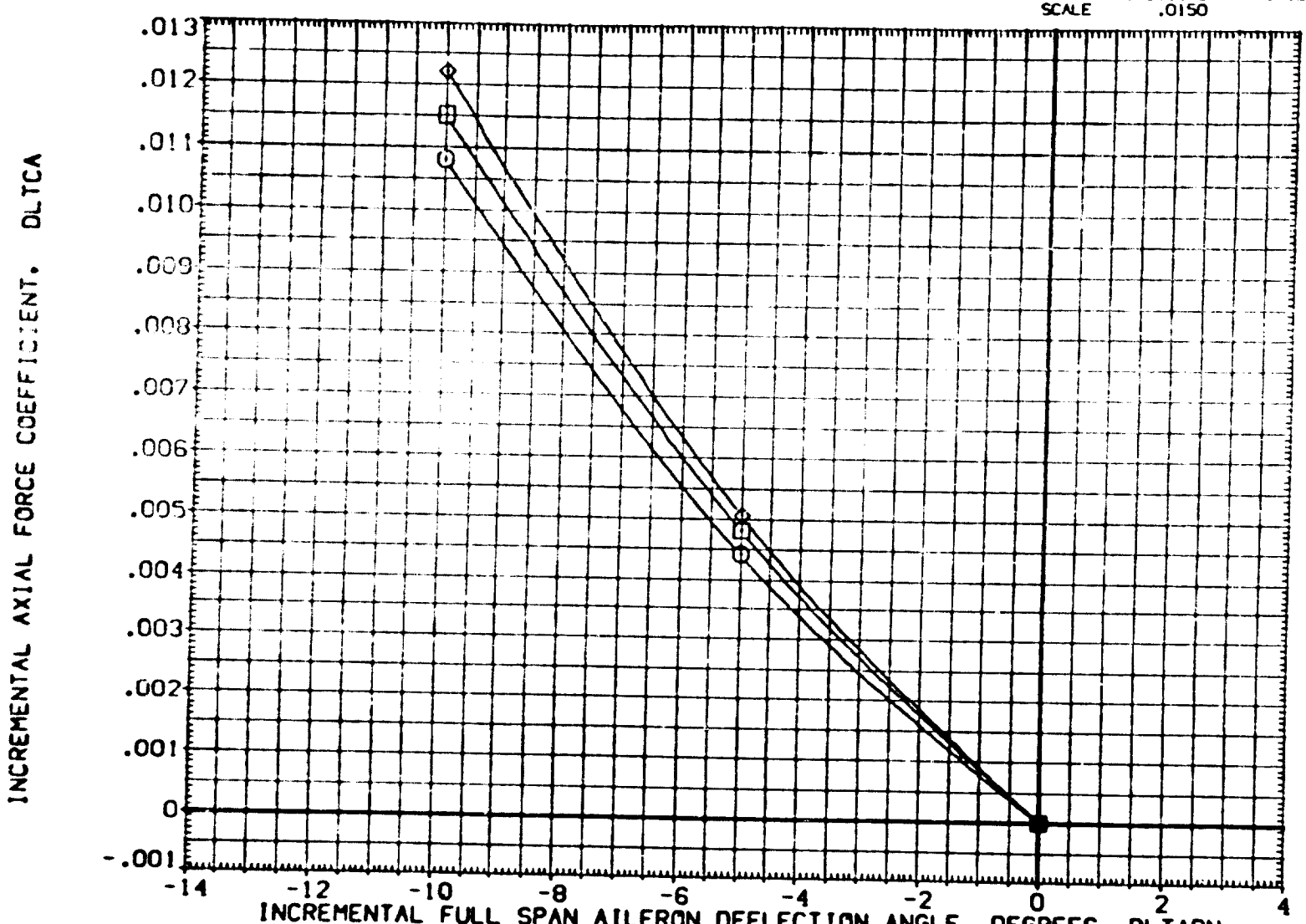


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

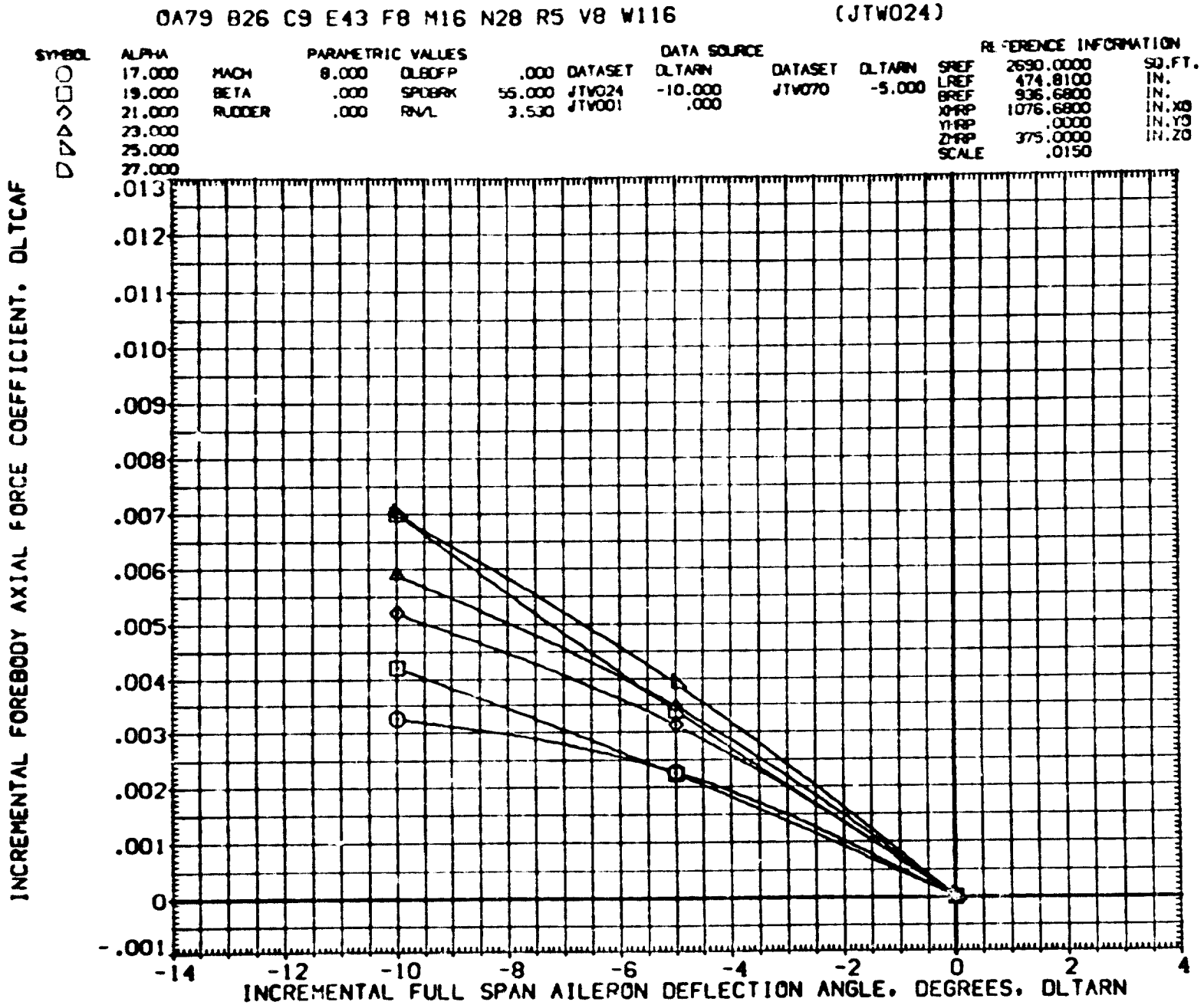


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	171.8100	IN.
◇	33.000	RUDDER	.000	RNYL	3.530	JTW001	.000			BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.XB
▽	37.000									YMRP	.0000	IN.YB
◻	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

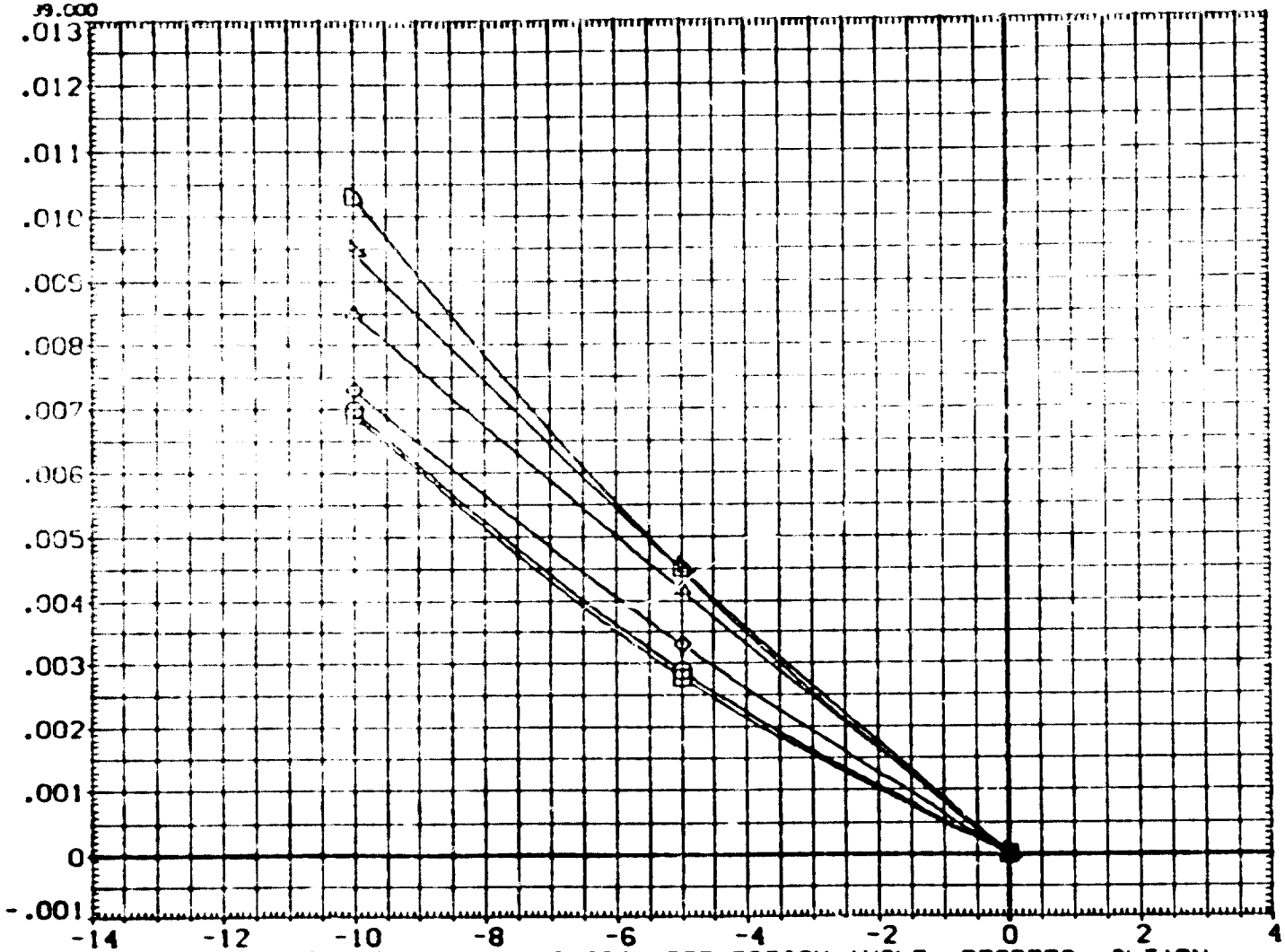


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPOBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNVL	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0003	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

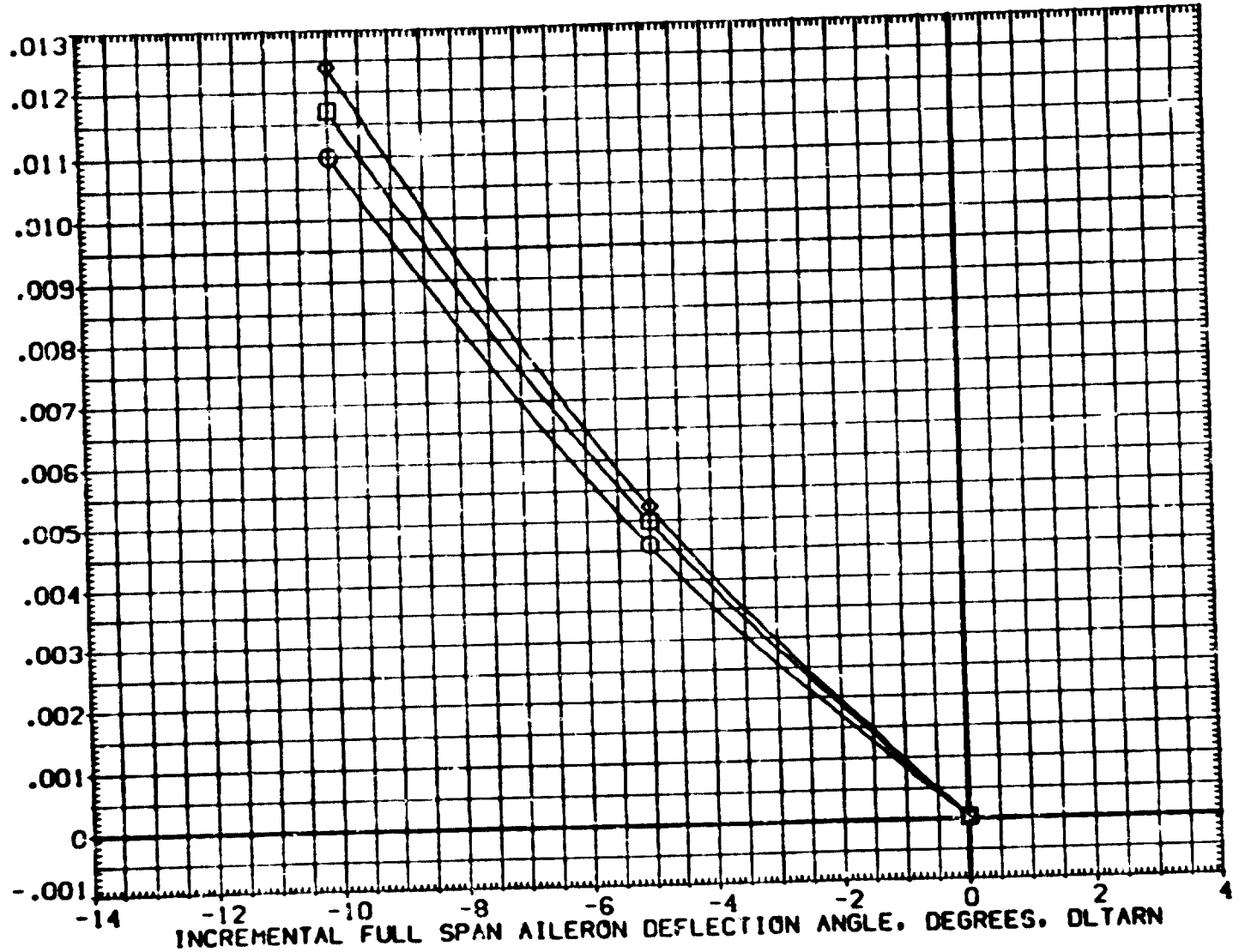


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	19.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	21.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.X0
▽	25.000									YMRP	.0000	IN.Y0
D	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

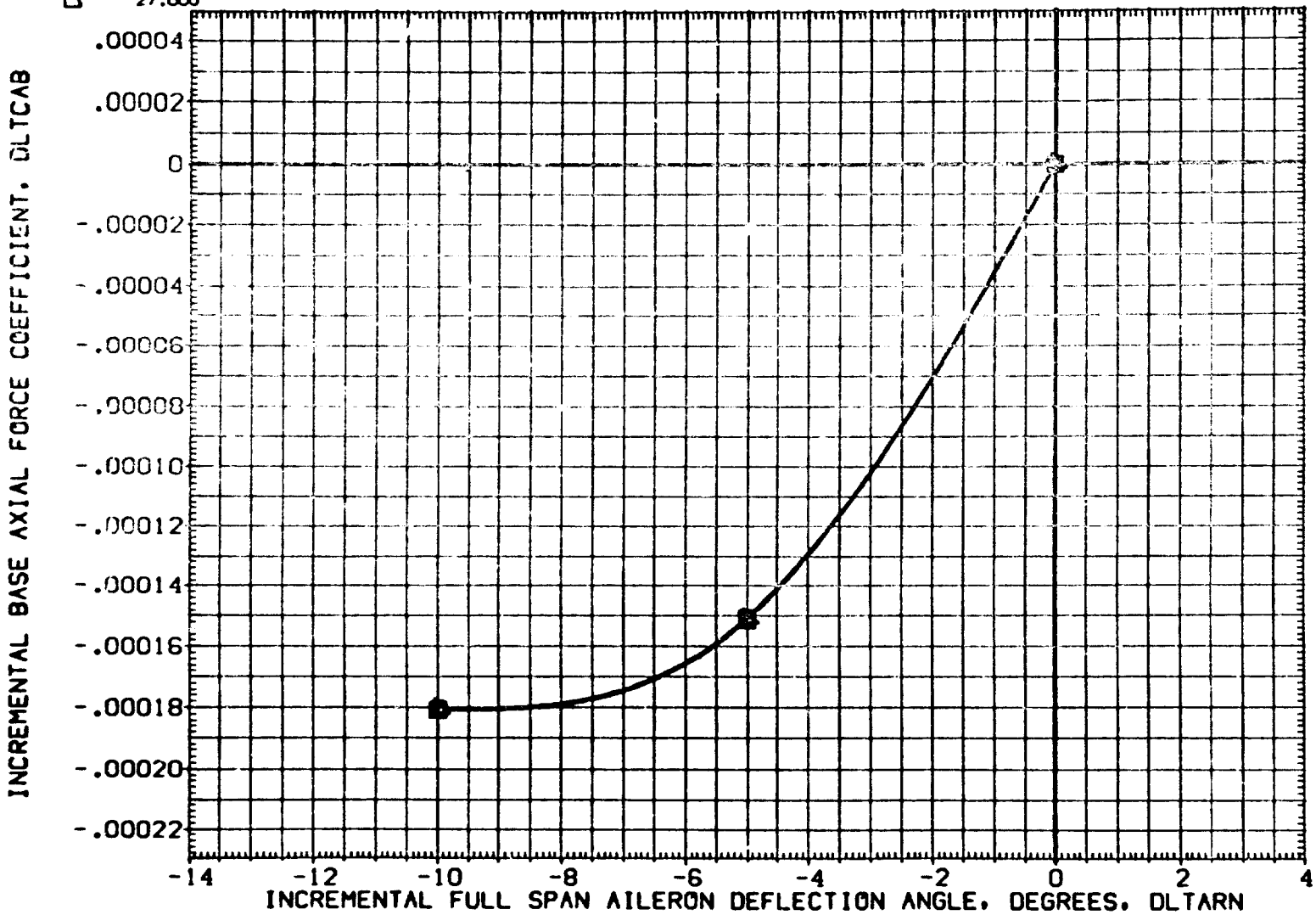


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

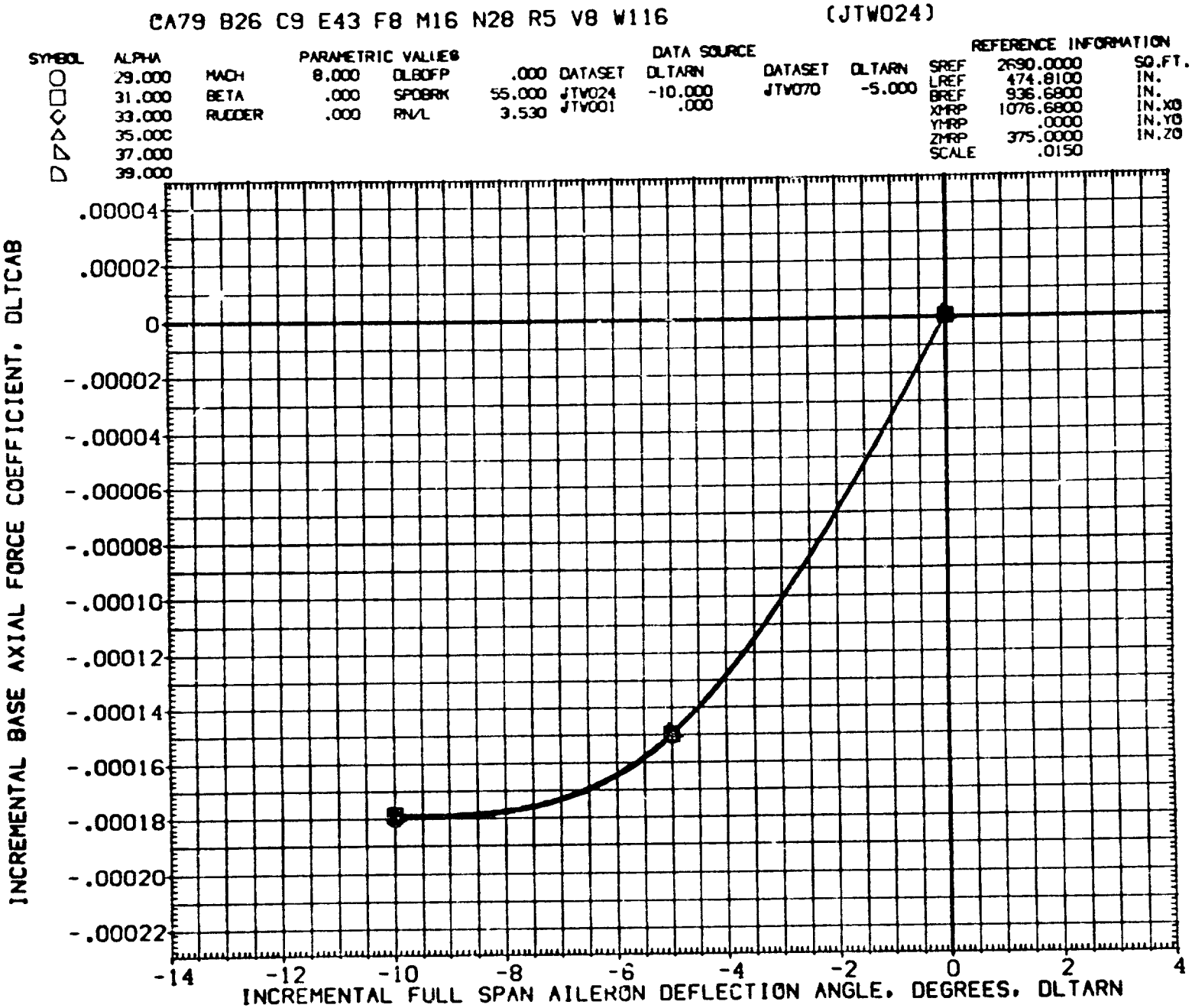


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

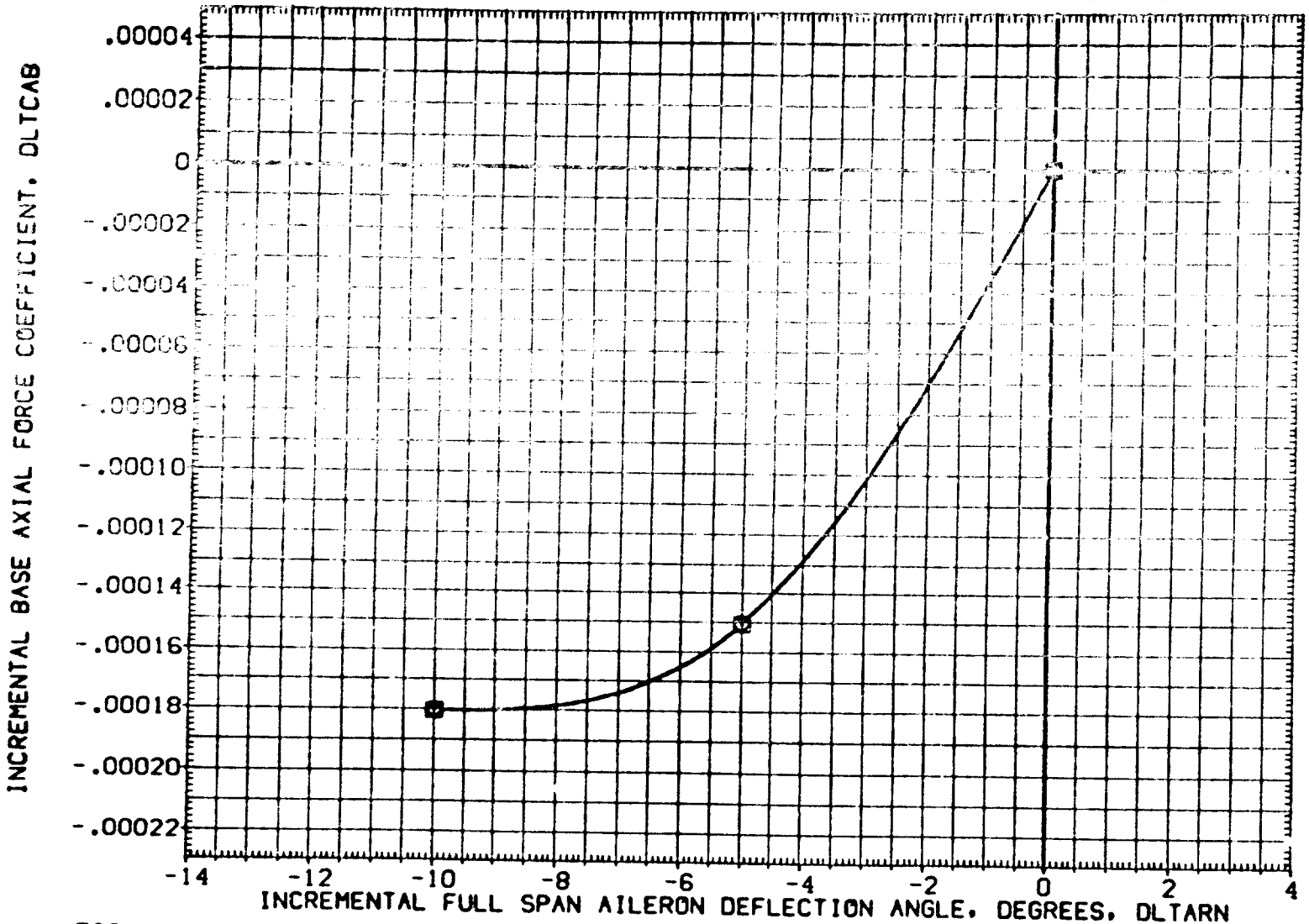


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

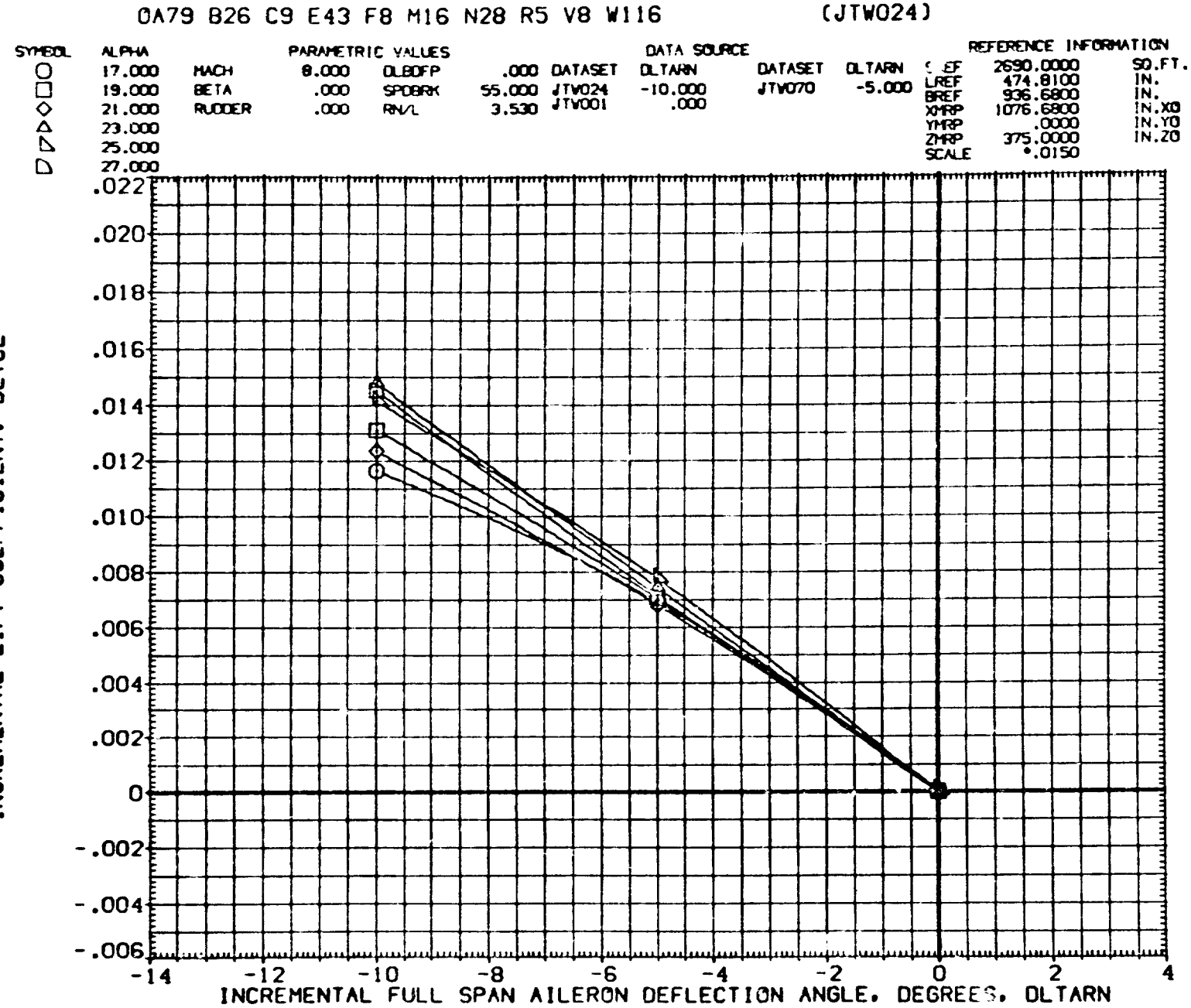


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	DLBOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2650.0000	SQ.FT.
□	31.000	BETA	.000	SPDBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.0100	IN.
◇	33.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.XB
▽	37.000									YMRP	.0000	IN.YB
▷	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

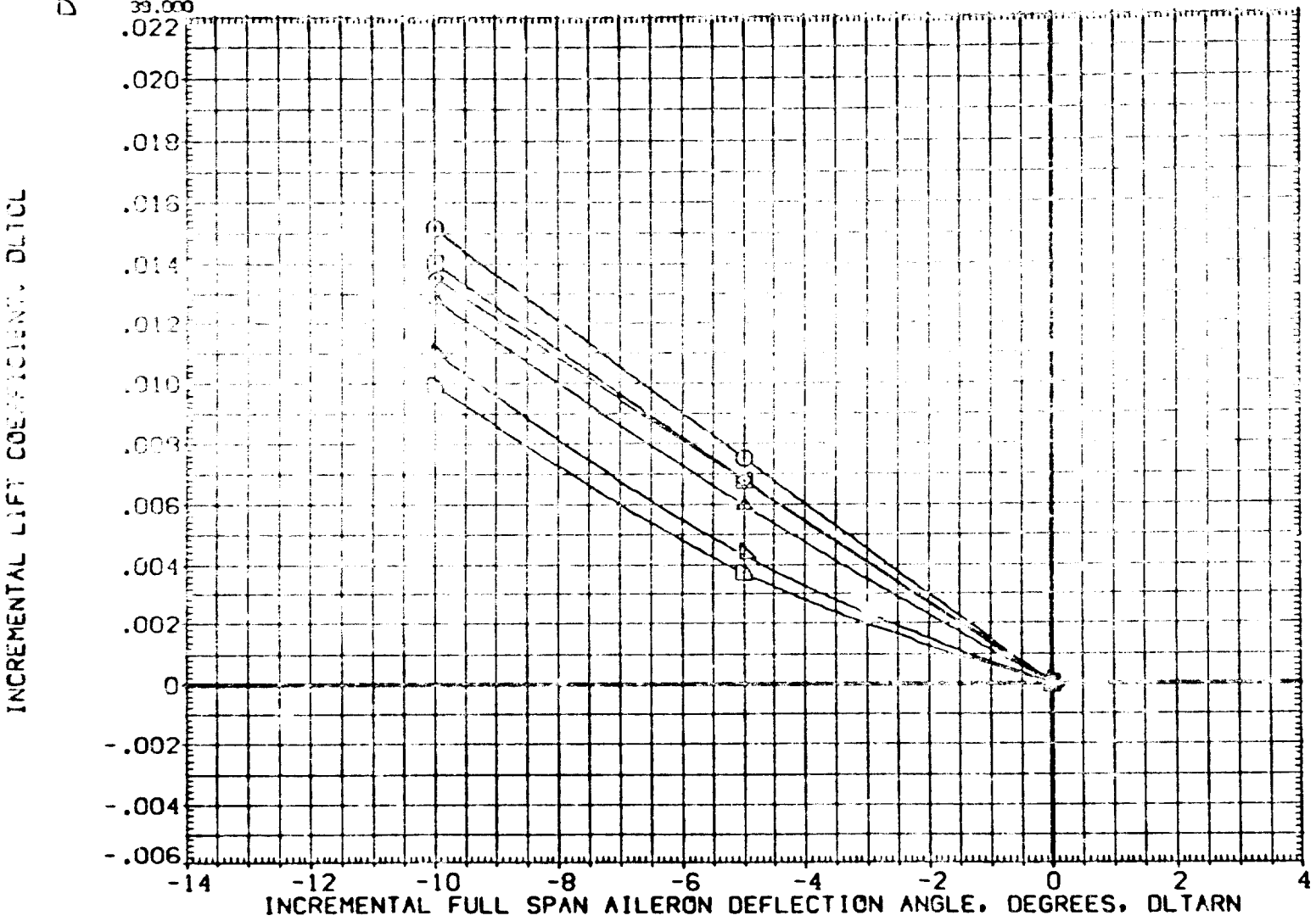


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLEOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPLBRK	35.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

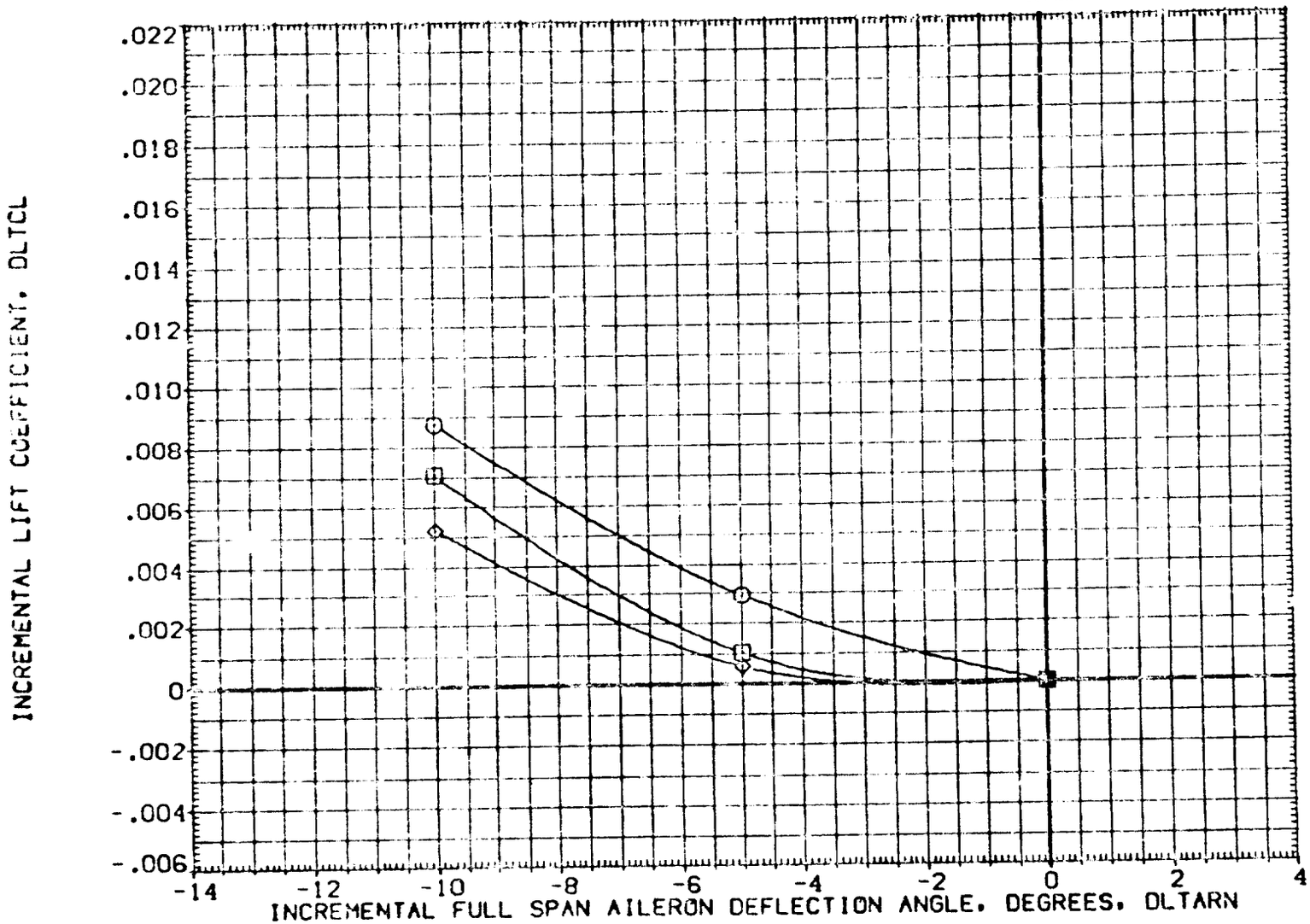


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

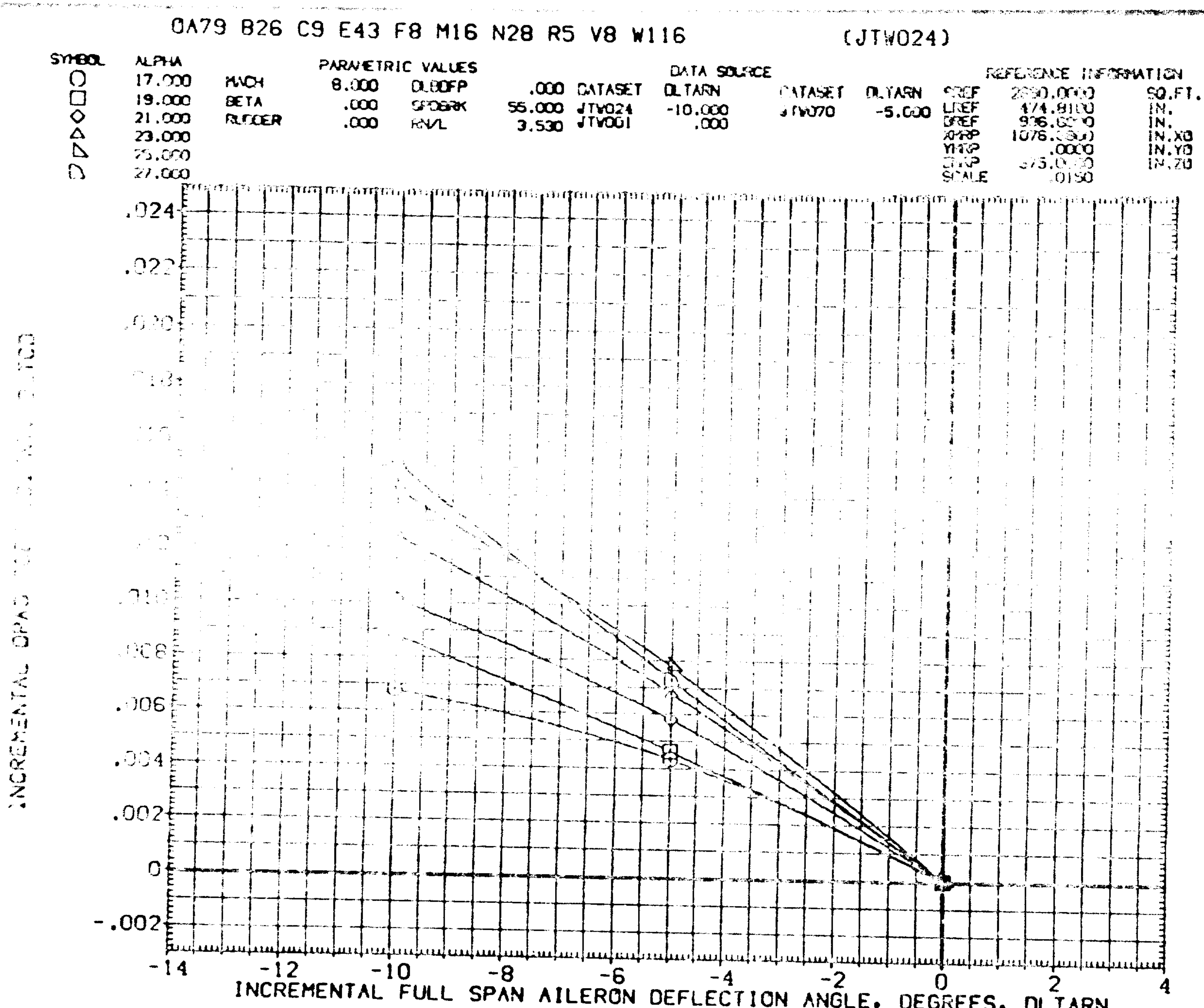

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (JTW024)
SYMBOL ALPHA
17.000
19.000
21.000
23.000
27.000
PARAMETRIC VALUES
MACH 8.000 DLBDFP .000
BETA .000 SPDBRK 55.000
RUDDER .000 RN/L 3.530
DATA SOURCE
DATASET DLTARN
JTW024 -10.000
JTV001 .000
DATASET DLTARN
JTV070 -5.000
REFERENCE INFORMATION
SREF SQ.FT.
LREF 474.8100 IN.
BREF IN.
XMRP IN.XO
YMRP .0000 IN.YO
ZMRP IN.ZO
SCALE .0150
.024
.022
.006
.004
.002
0
-.002
-14
-12
-10
-8
-6
-4
-2
0
2
4
INCREMENTAL FULL SPAN AILERON DEFLECTION ANGLE, DEGREES, DLTARN

FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

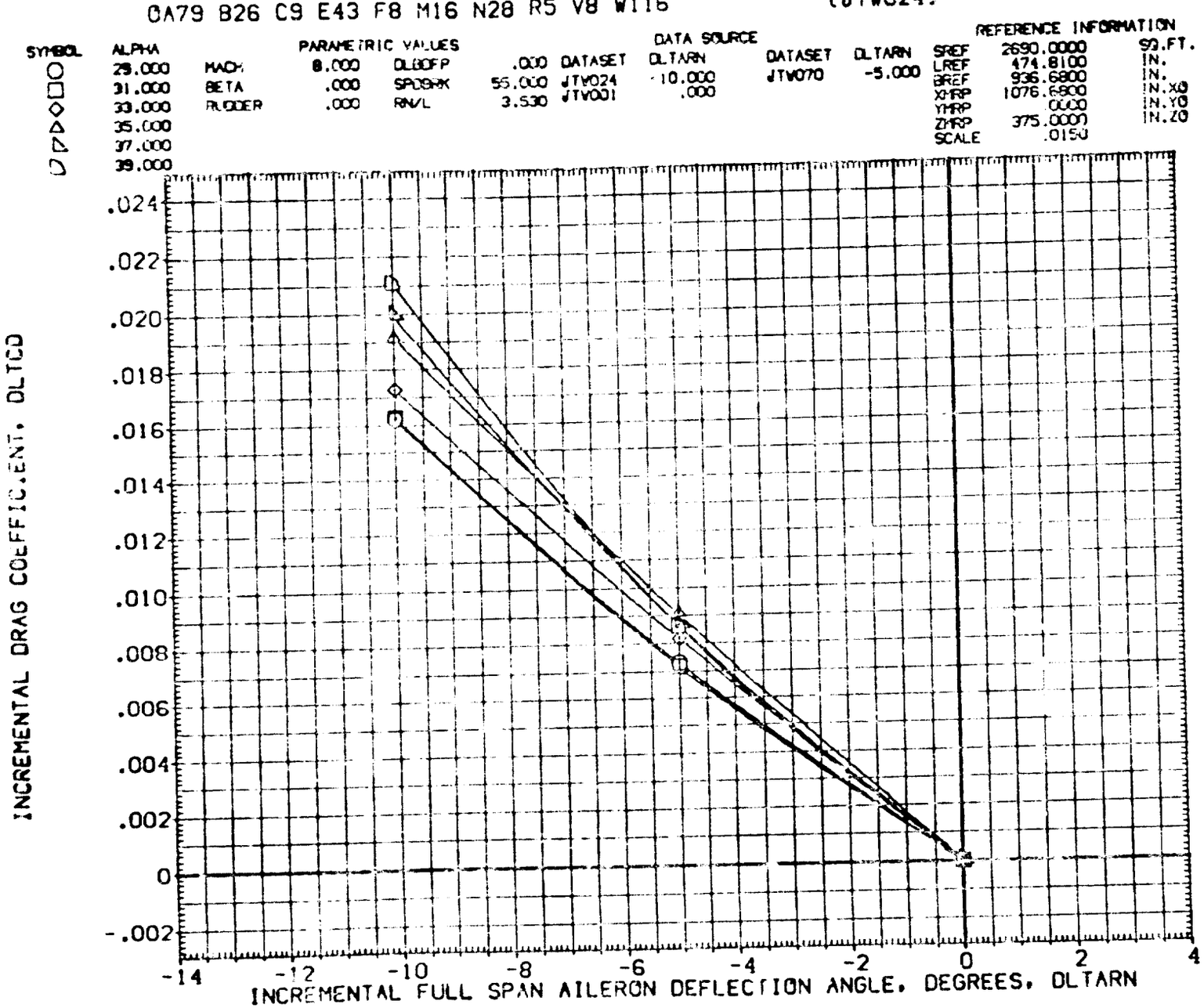


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPOBRK	55.000	JTW024	-10.000	JTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	PNVL	3.530	JTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

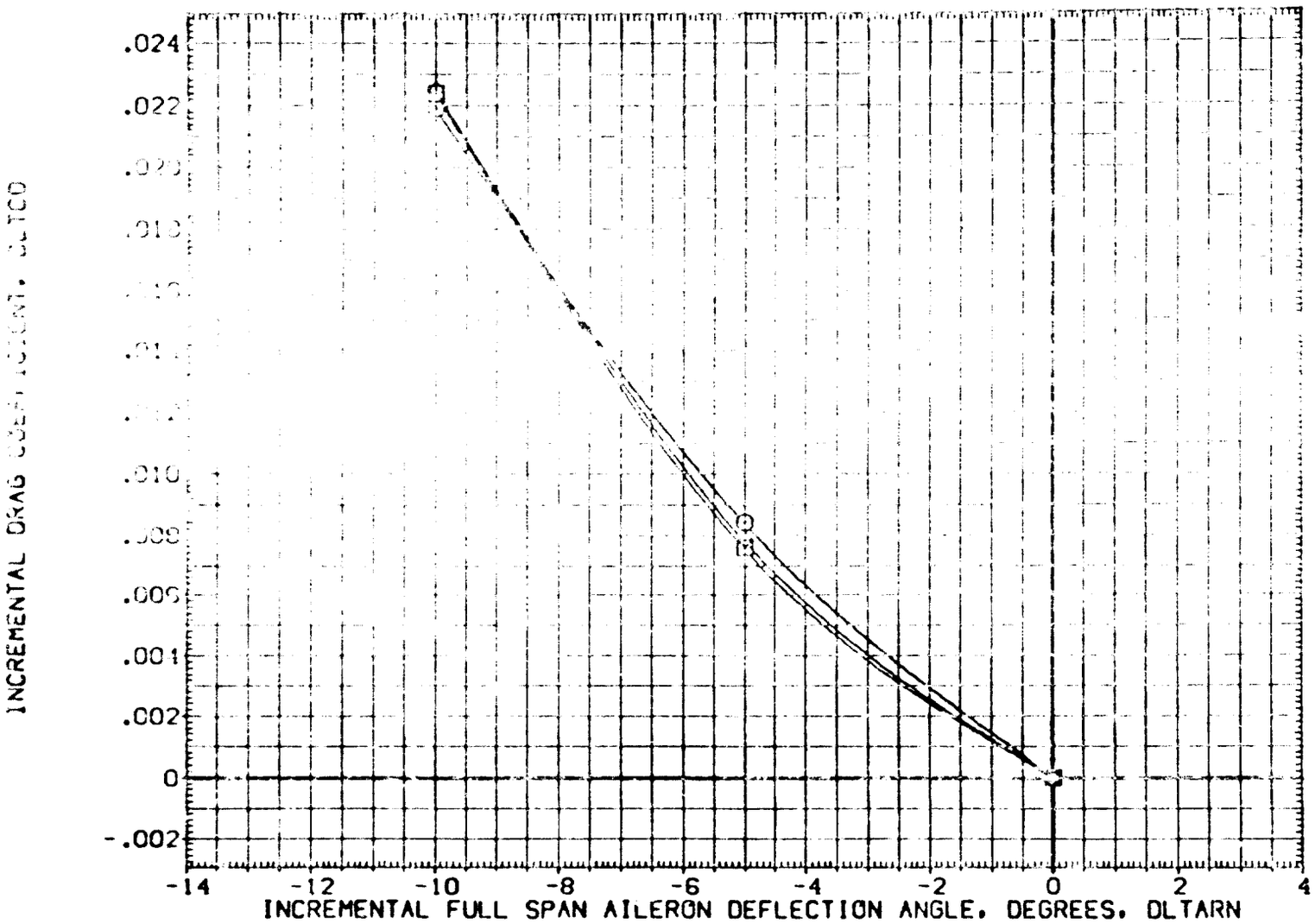


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

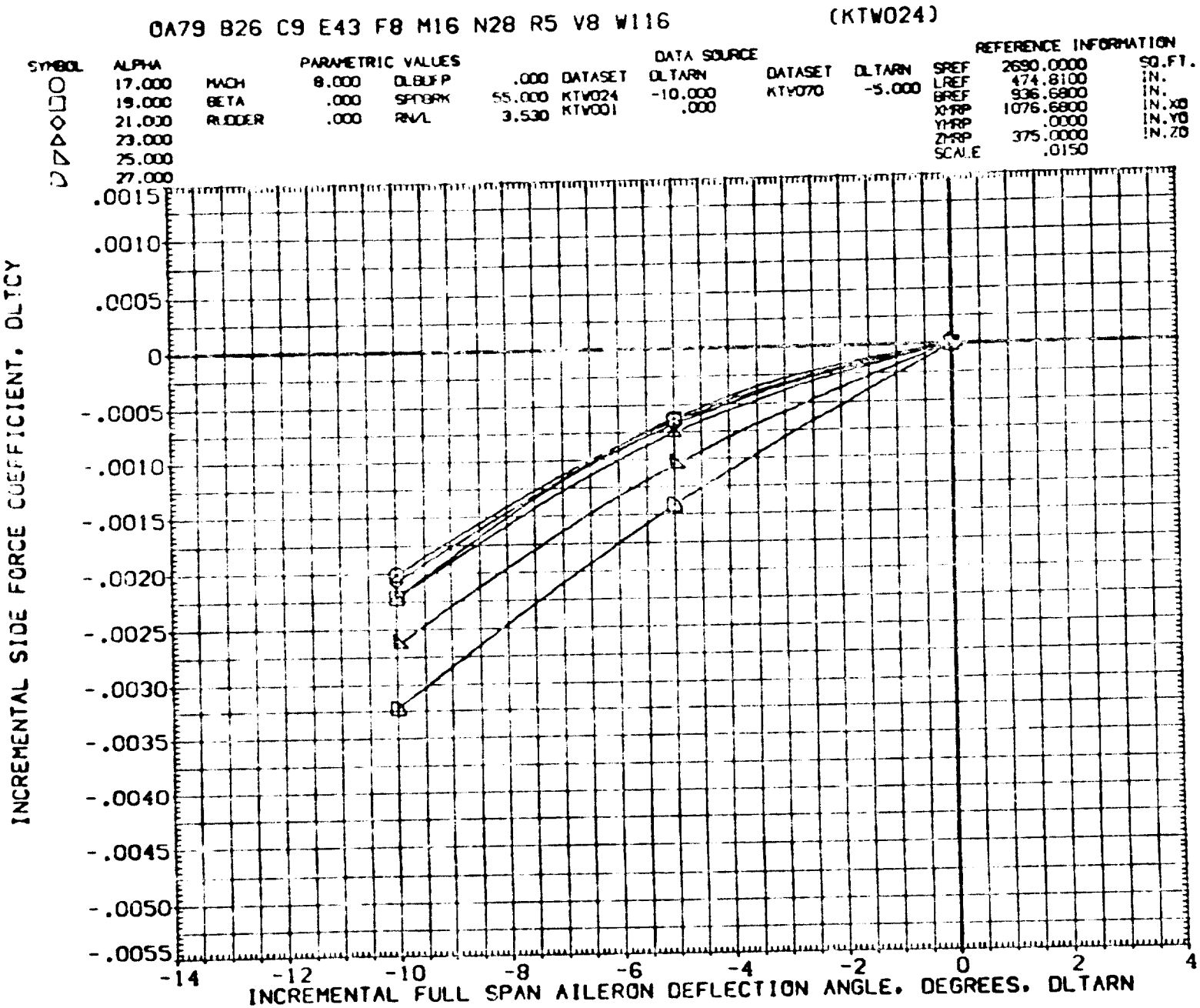


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

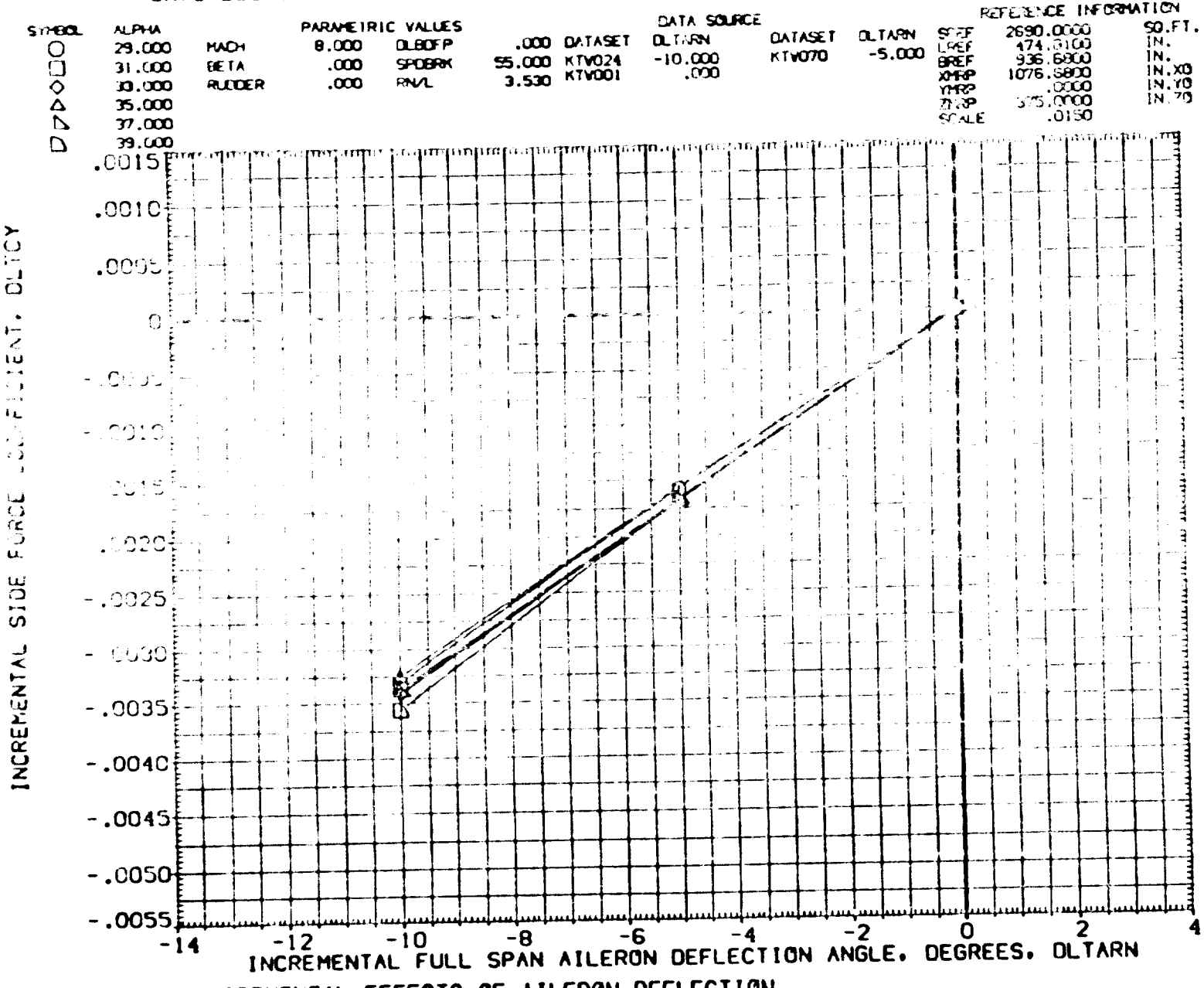


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (KTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBDFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	KTW024	-10.000	KTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	R/L	3.530	KTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

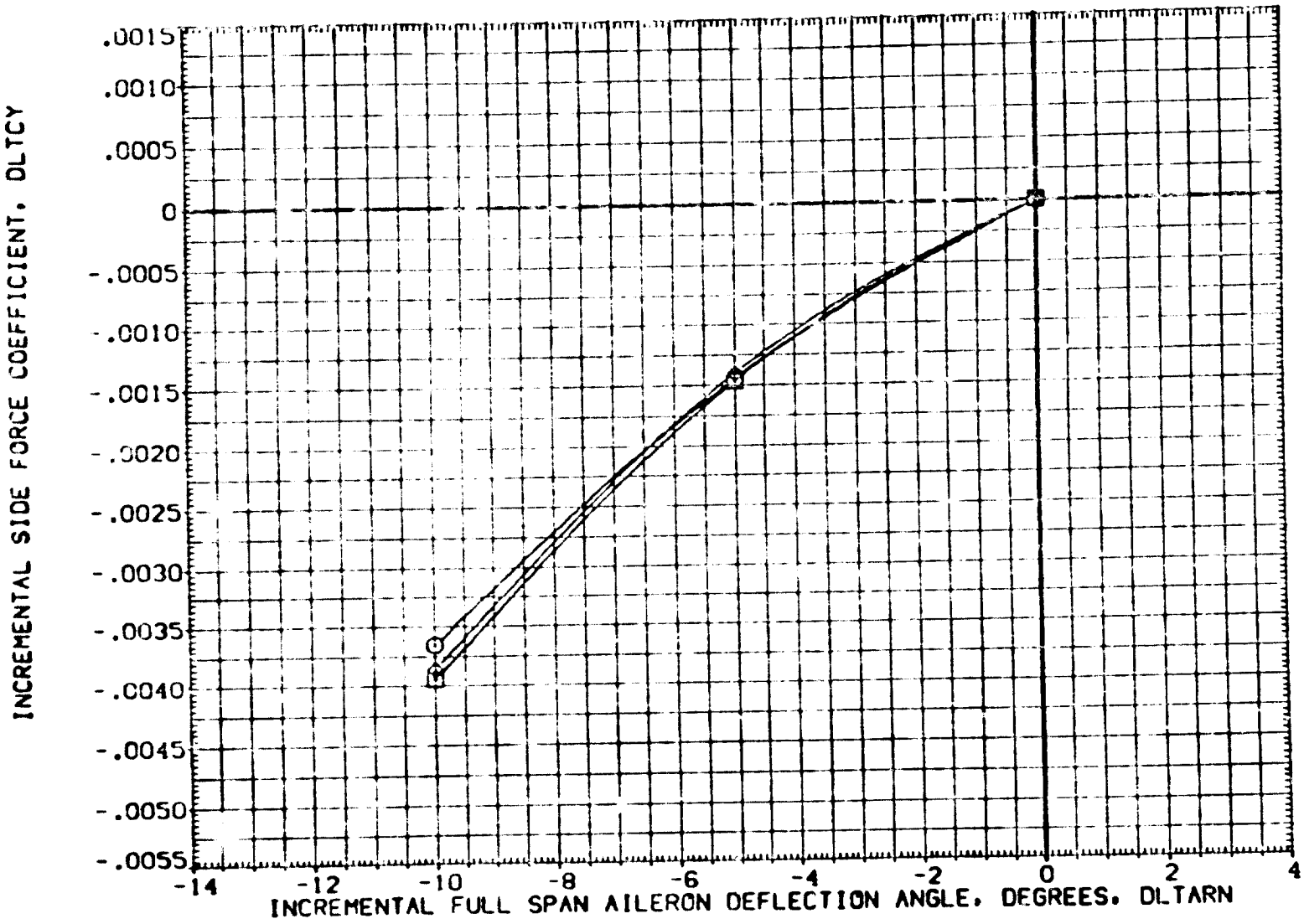


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

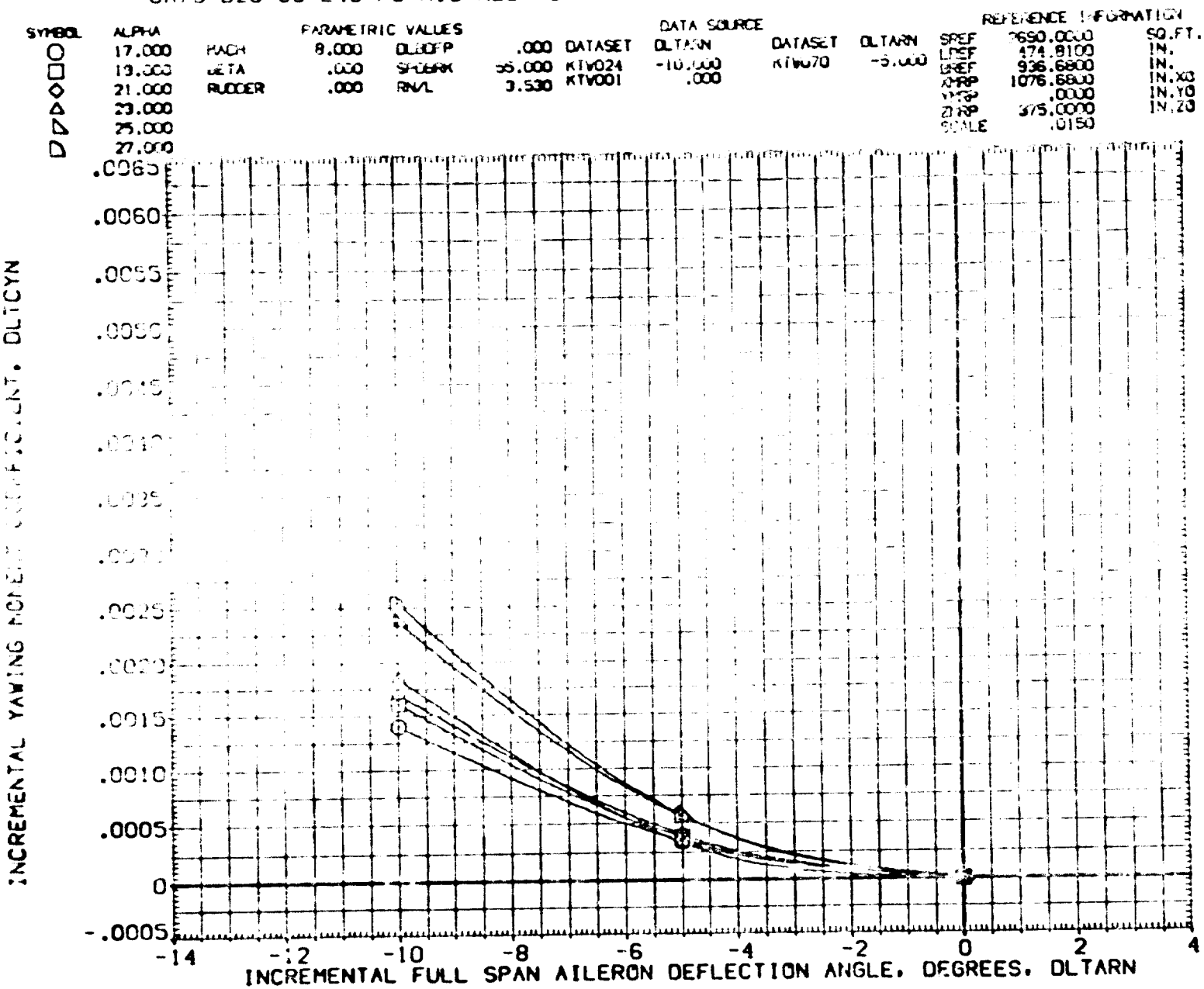


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

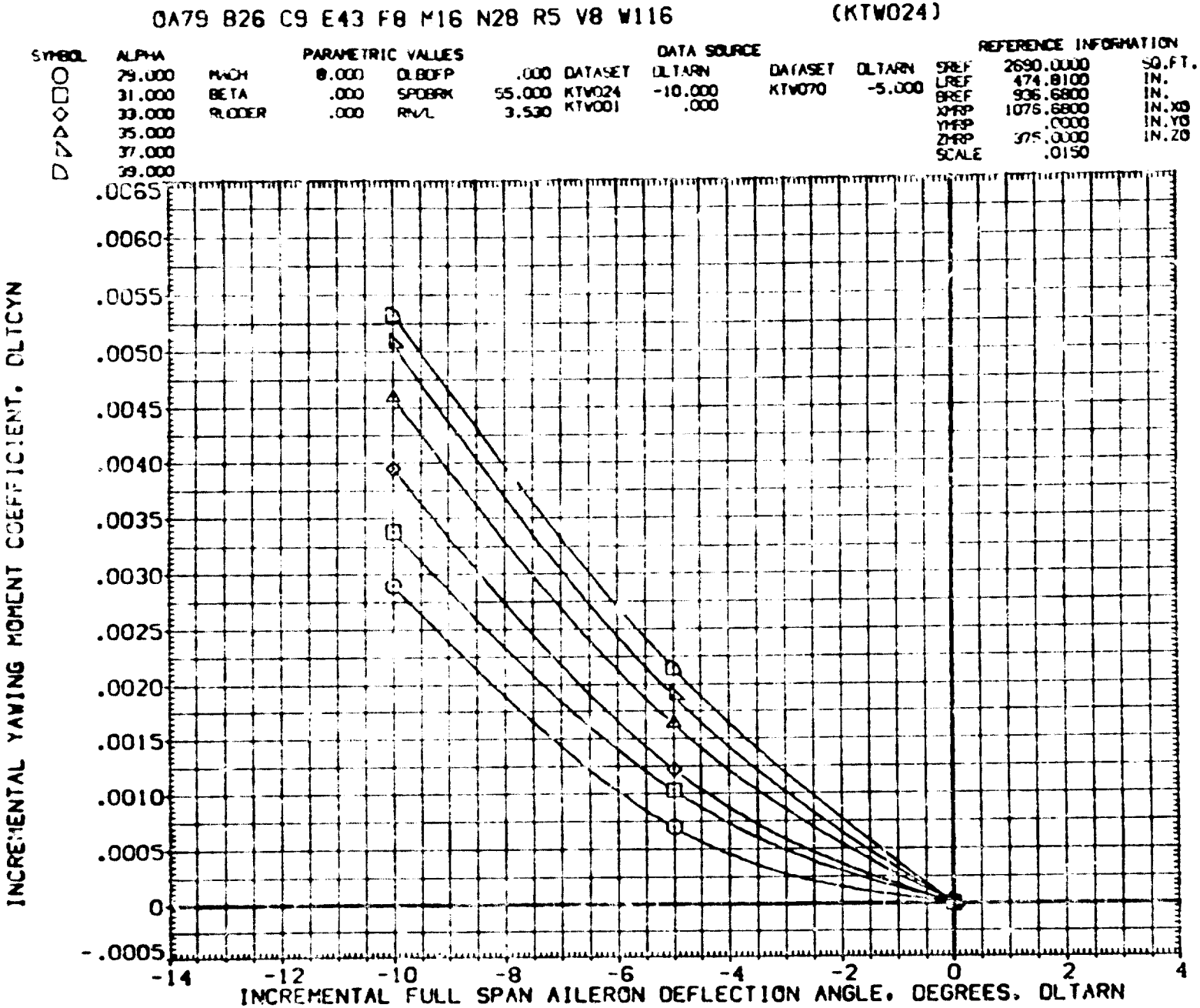


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (KTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	SPOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2650.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	KTV024	-10.000	KTV070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RNVL	3.530	KTV001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

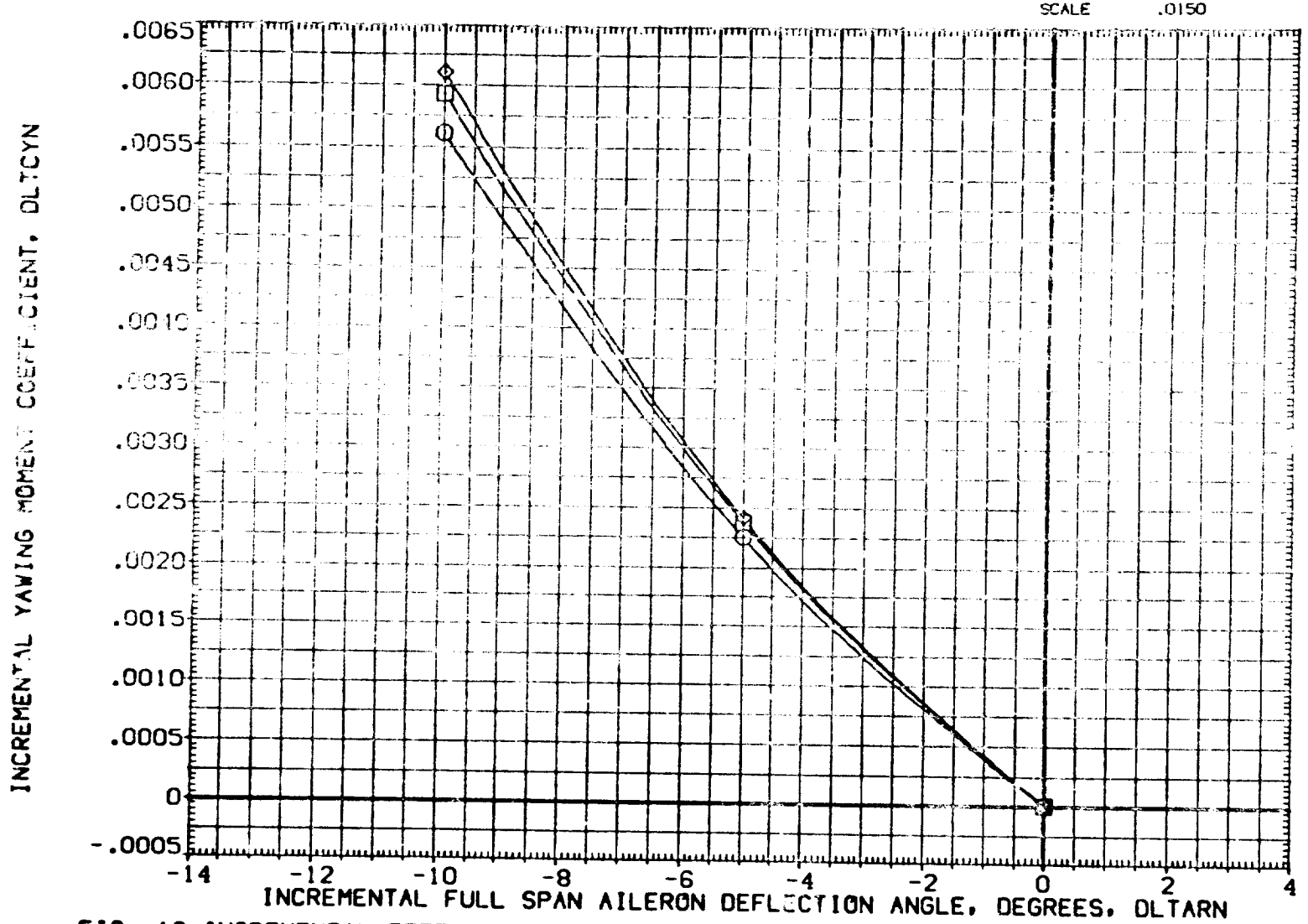


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

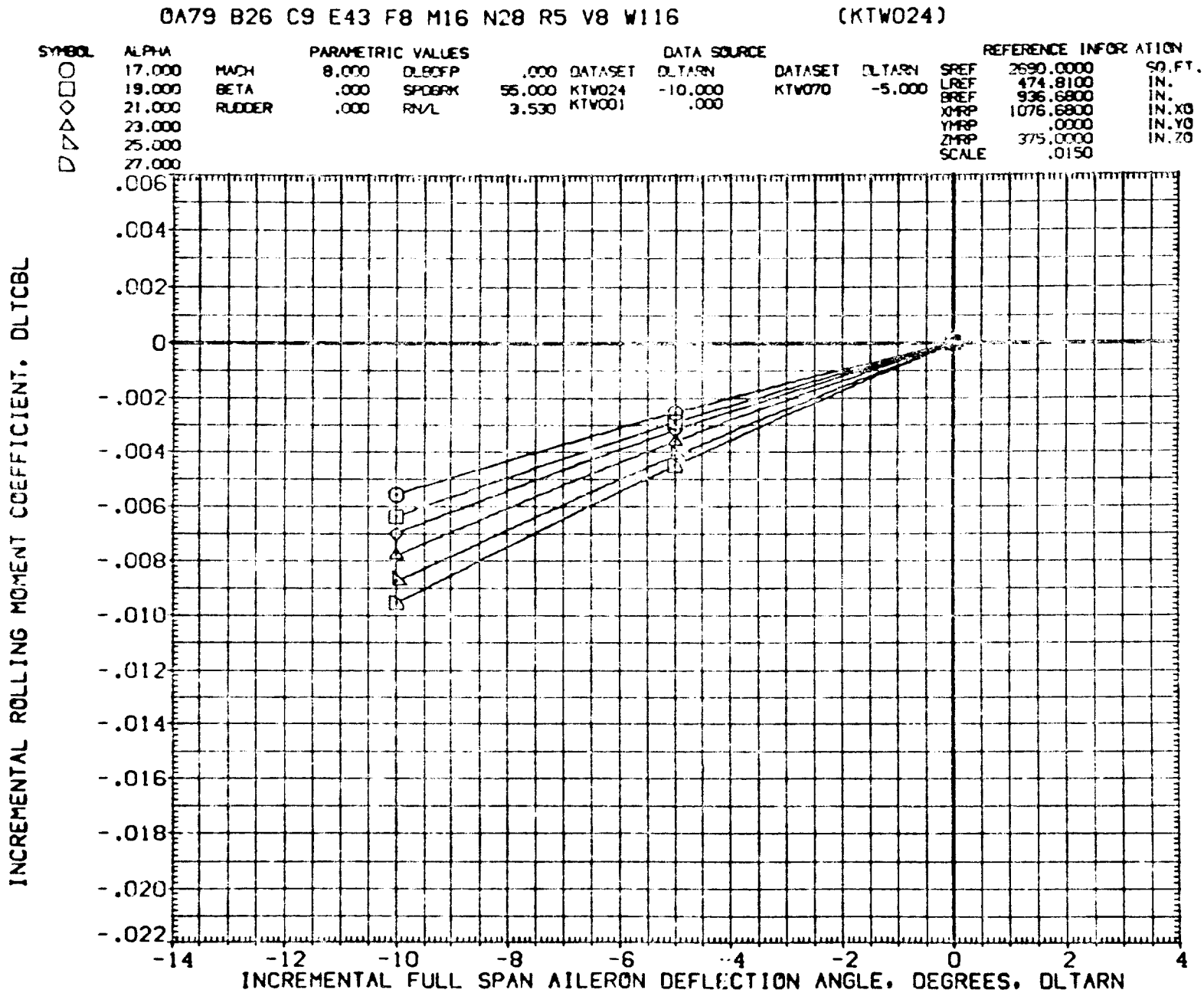


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

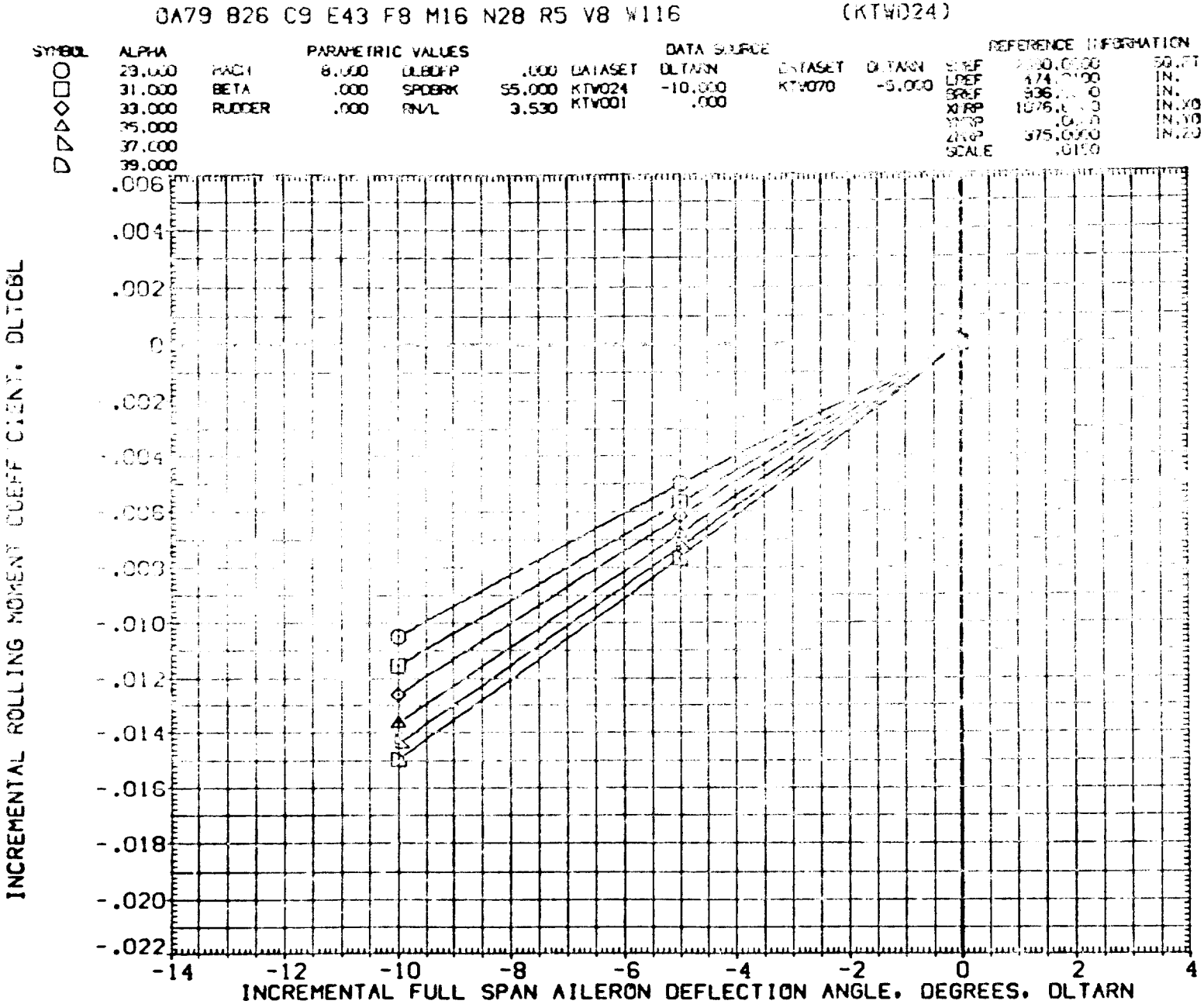


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (KTW024)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DLBOFP	.000	DATASET	DLTARN	DATASET	DLTARN	SREF	2690.0000	SQ.FT.
□	43.000	BETA	.000	SPDBRK	55.000	KTW024	-10.000	KTW070	-5.000	LREF	474.8100	IN.
◇	45.000	RUDDER	.000	RN/L	3.530	KTW001	.000			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

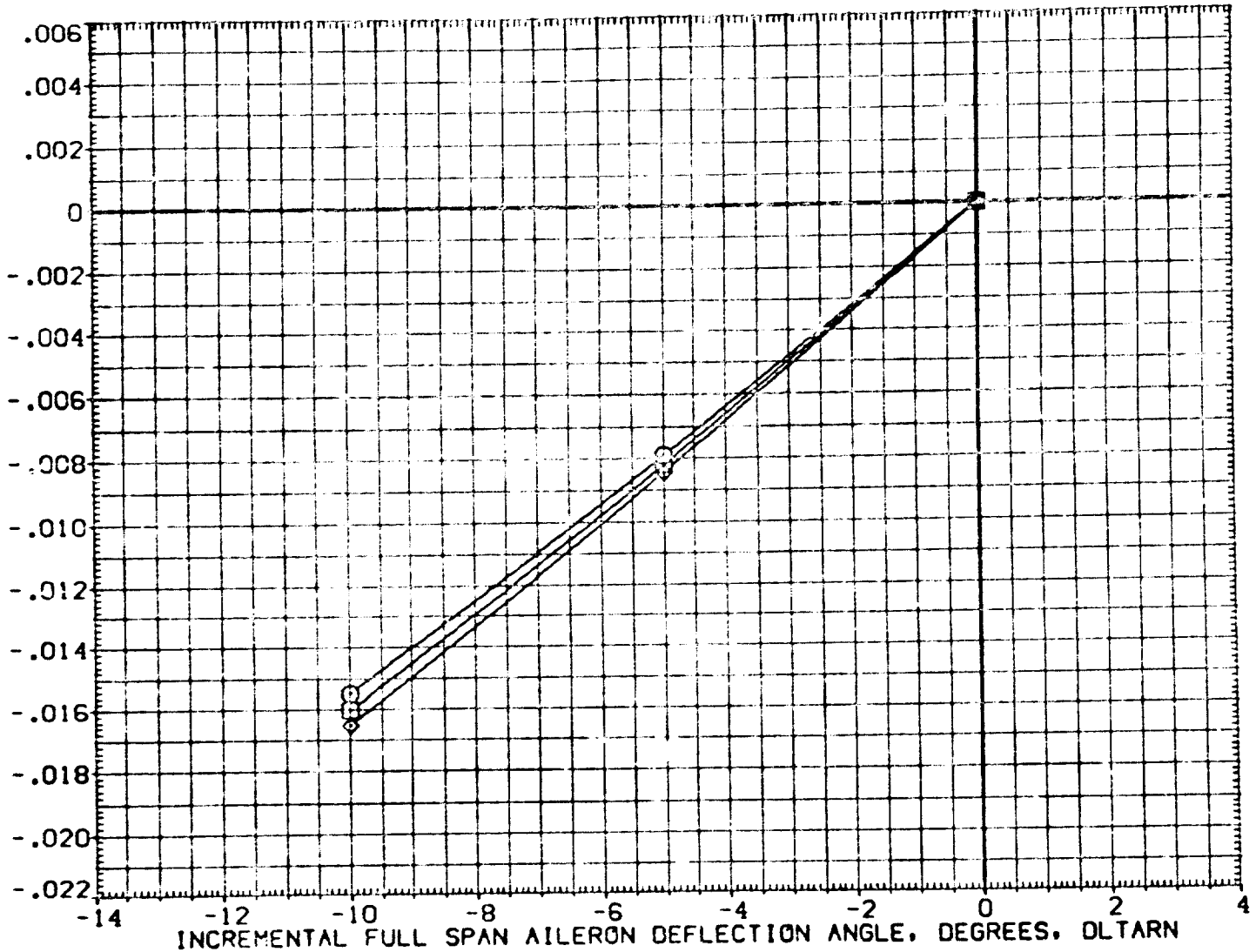


FIG. 10 INCREMENTAL EFFECTS OF AILERON DEFLECTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(CTY027)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-40.000	.000	SREF	2820.0000	SQ.FT.
(CTY030)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000	LREF	174.5170	IN.
(CTY029)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000	BREF	325.5800	IN.
(CTY001)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000	XMRP	1076.6900	IN.XB
(CTY028)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000	YMRP	.0000	IN.YB
						ZMRP	375.0000	IN.ZB
						SCALE	.0150	

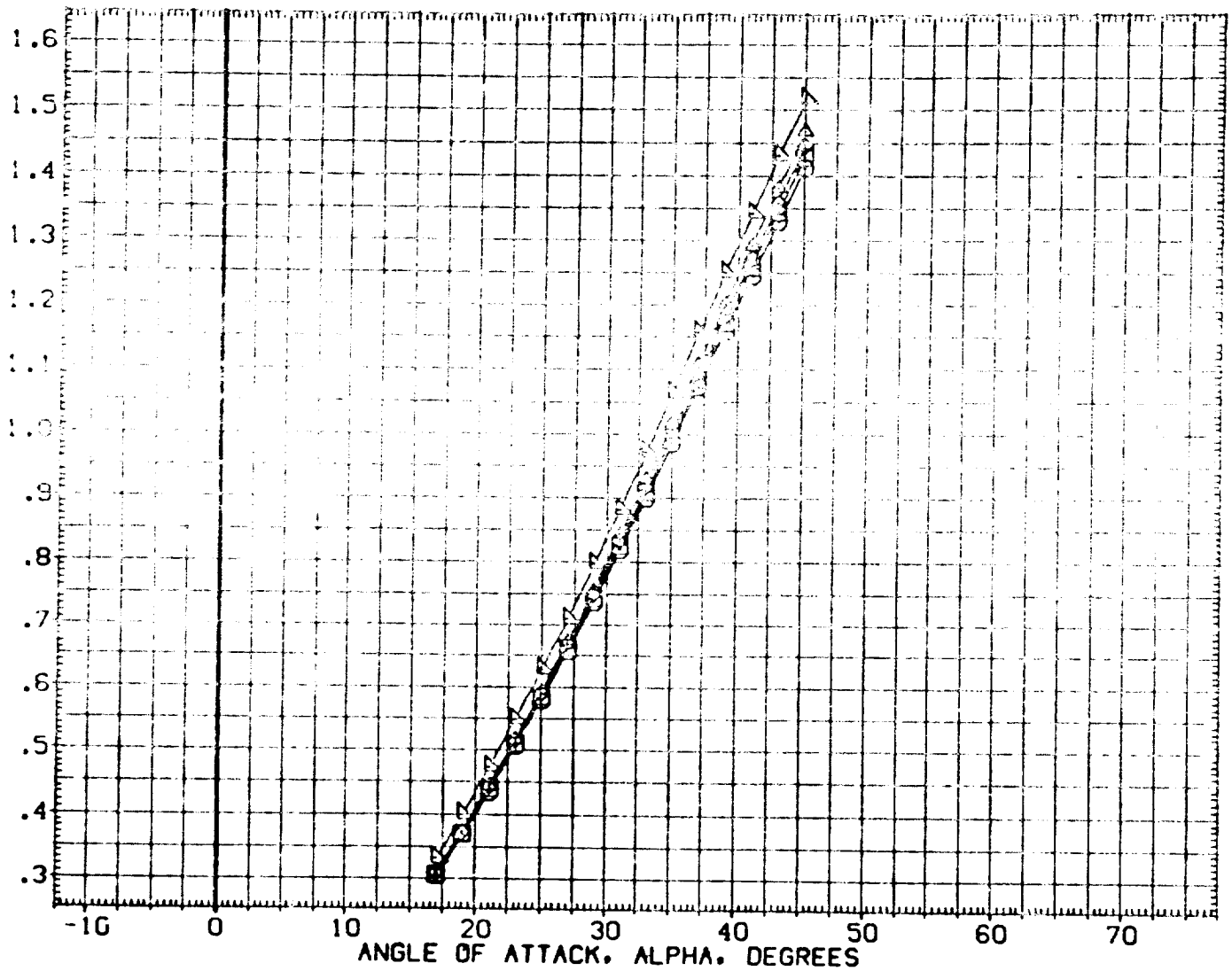


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A) MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV027)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000
(CTV030)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-20.000	-20.000	.000
(CTV023)	▽	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-10.000	-10.000	.000
(CTV031)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V9 W116	.000	.000	.000	.000
(CTV029)	☐	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

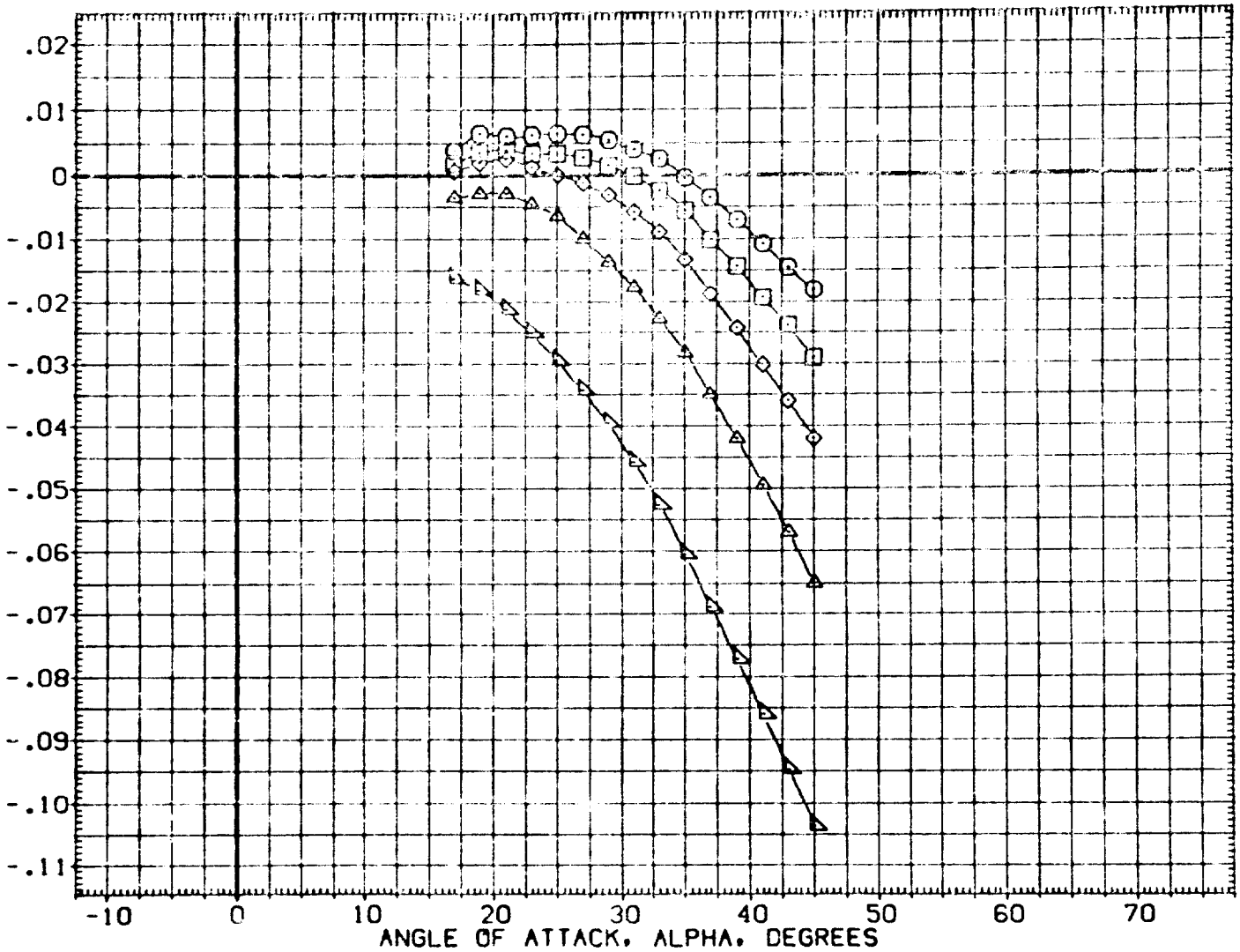


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

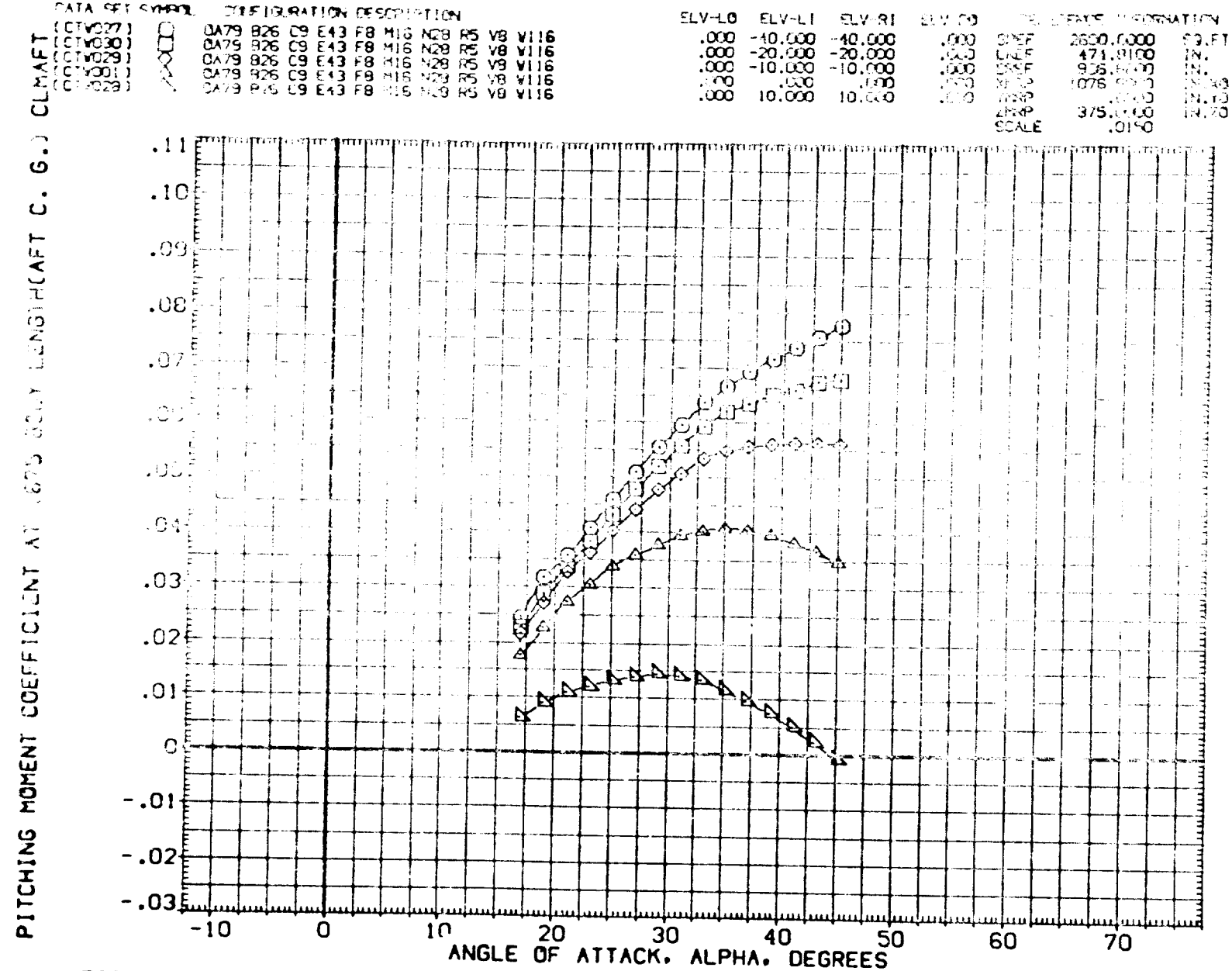


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

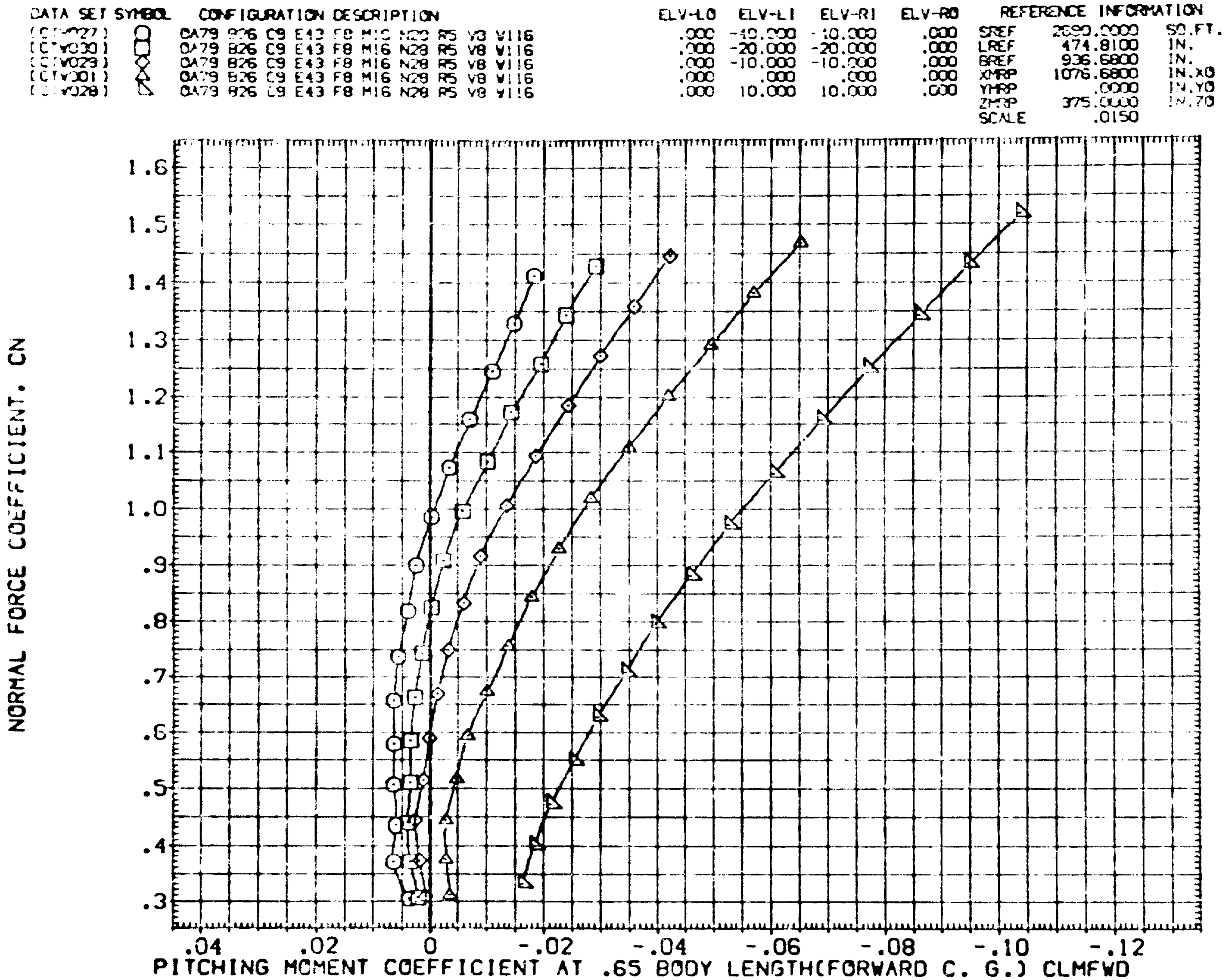

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CTV027) OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV030) OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV029) OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV301) OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV028) OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
ELV-LO ELV-LI ELV-RI ELV-RO
.000 -10.000 -10.000 .000
.000 -20.000 -20.000 .000
.000 -10.000 -10.000 .000
.000 .000 .000 .000
.000 10.000 10.000 .000
REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1076.6800 IN.XO
YMRP .0000 IN.YO
ZMRP 375.0000 IN.ZO
SCALE .0150
NORMAL FORCE COEFFICIENT, CN
PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH(FORWARD C. G.) CLMFWD

FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

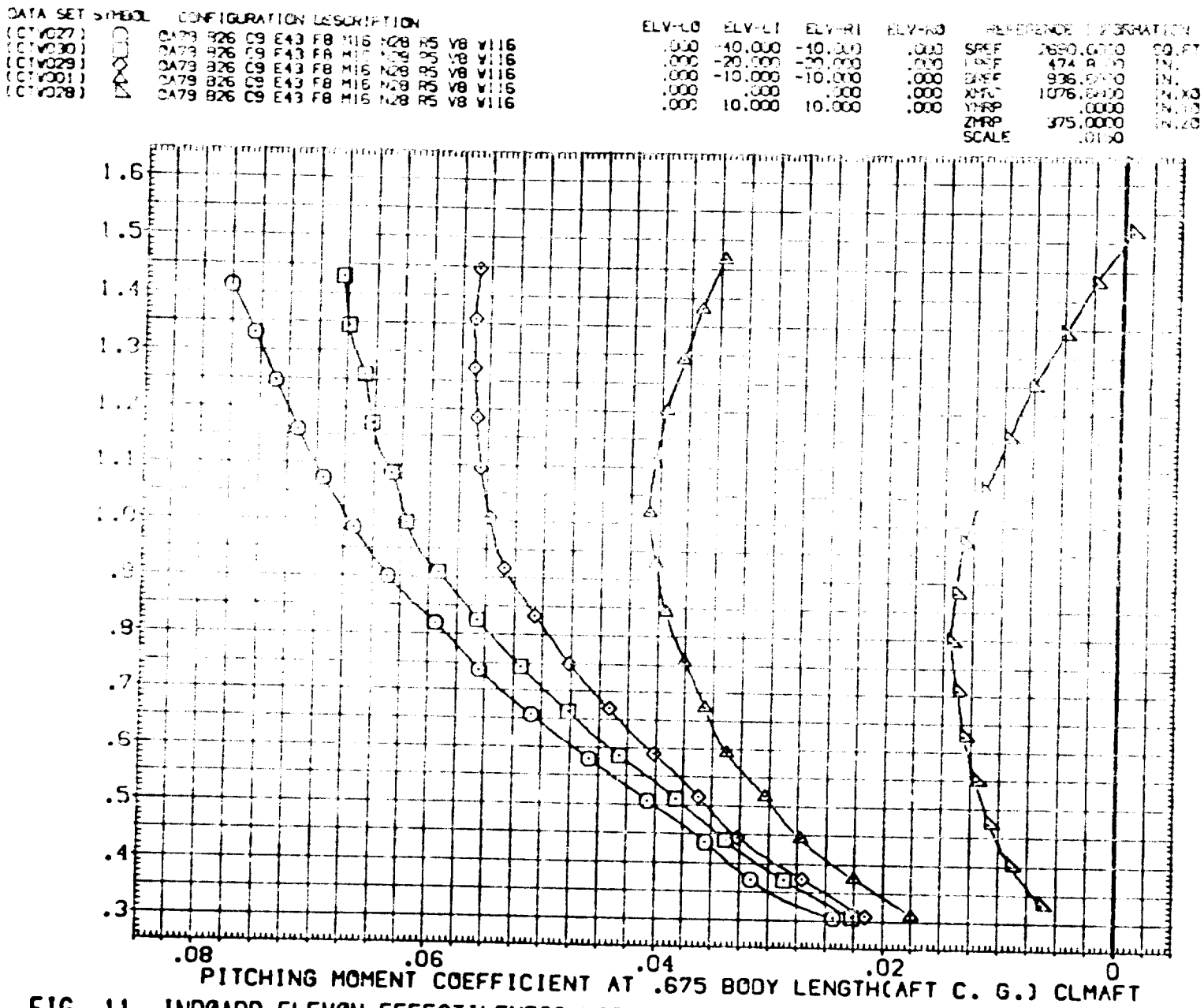


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

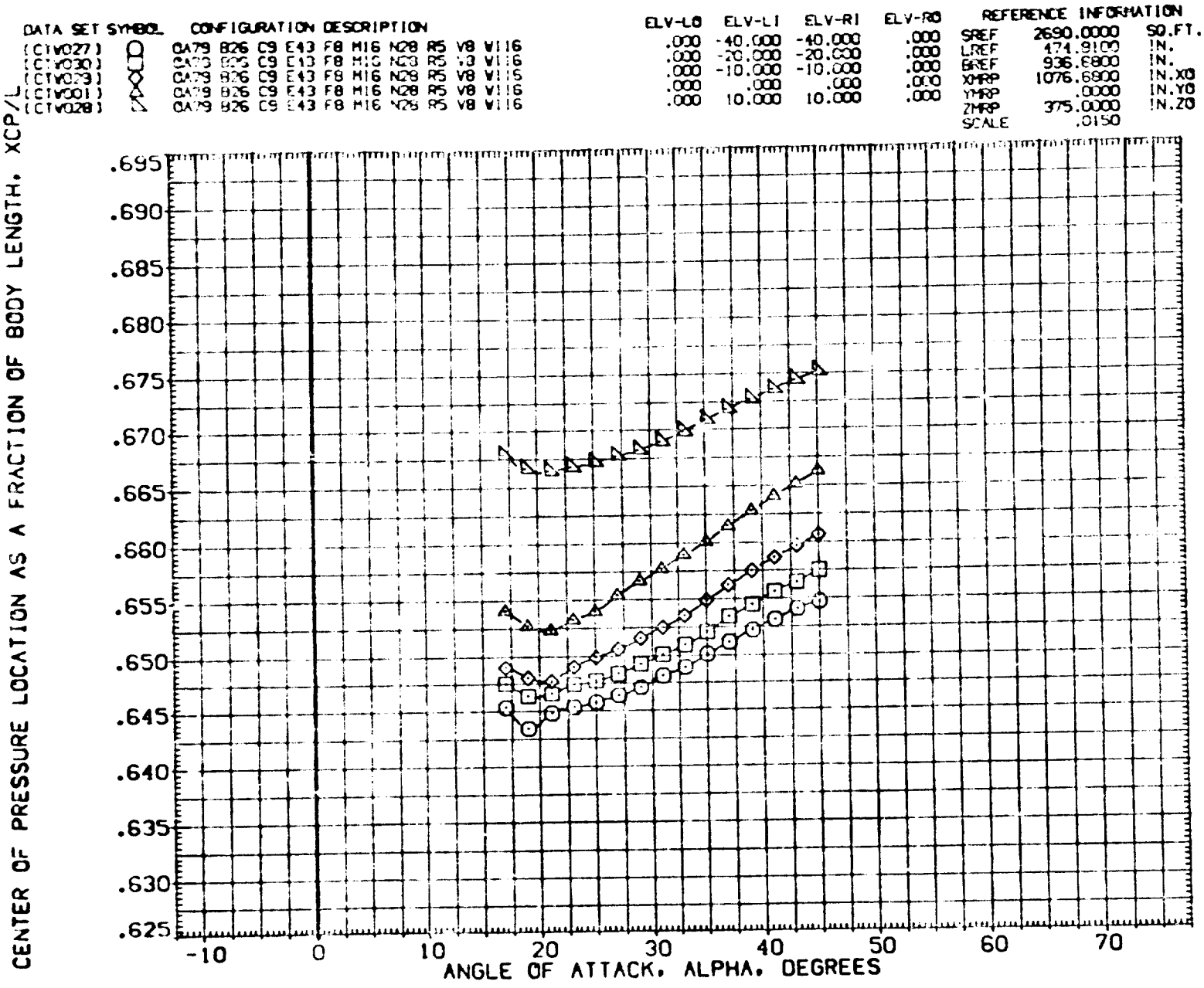


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CTV027)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV030)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV029)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV001)	⊙	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV028)	▽	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	-40.000	-40.000	.000
.000	-20.000	-20.000	.000
.000	-10.000	-10.000	.000
.000	.000	.000	.000
.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2000.0000	SQ.FT.
LREF	424.0000	IN.
BREF	936.0000	IN.
XMRP	1076.0000	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

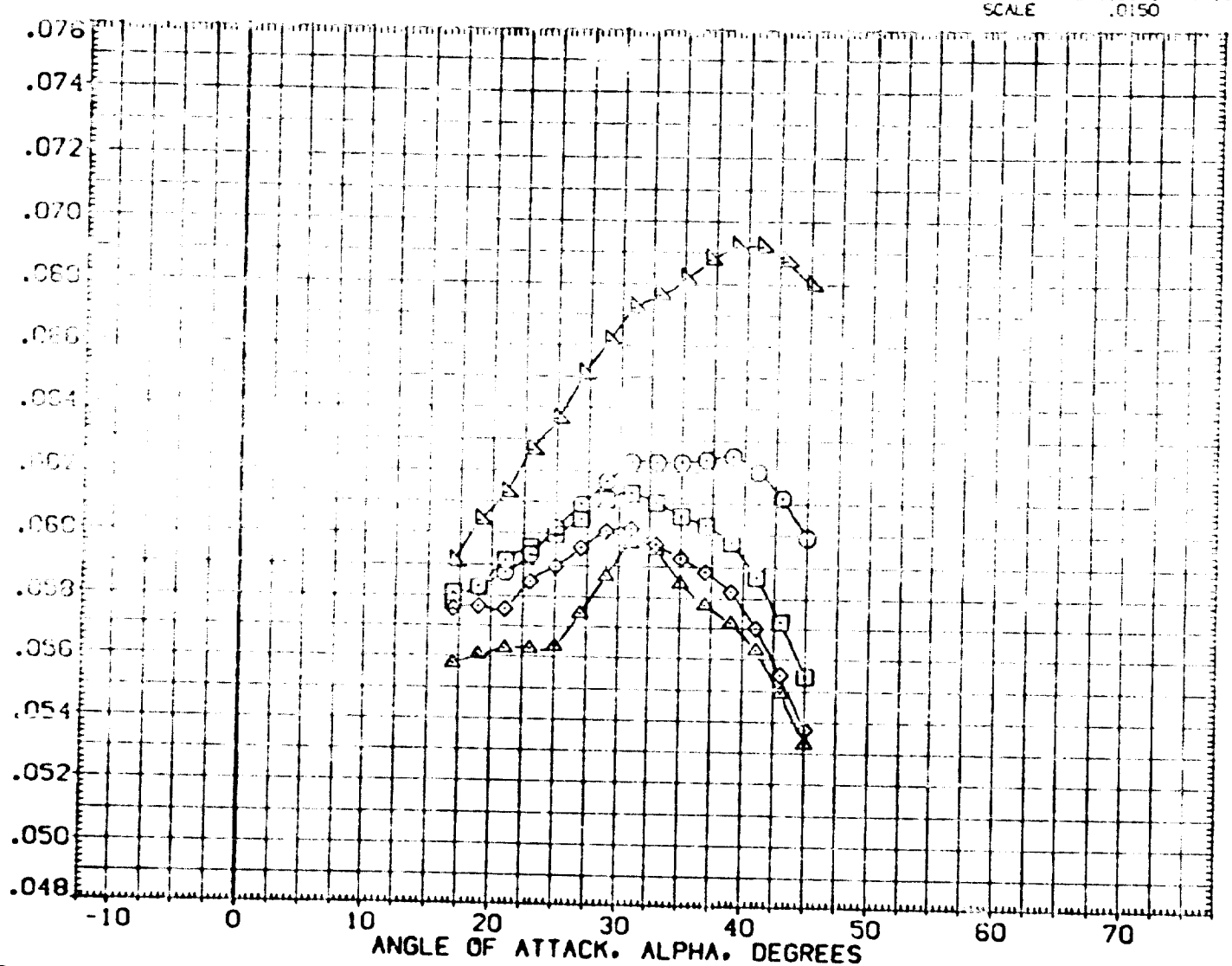


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(C)V027)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000
(C)V030)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-20.000	-20.000	.000
(C)V029)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-10.000	-10.000	.000
(C)V031)	▽	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(C)V028)	△	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

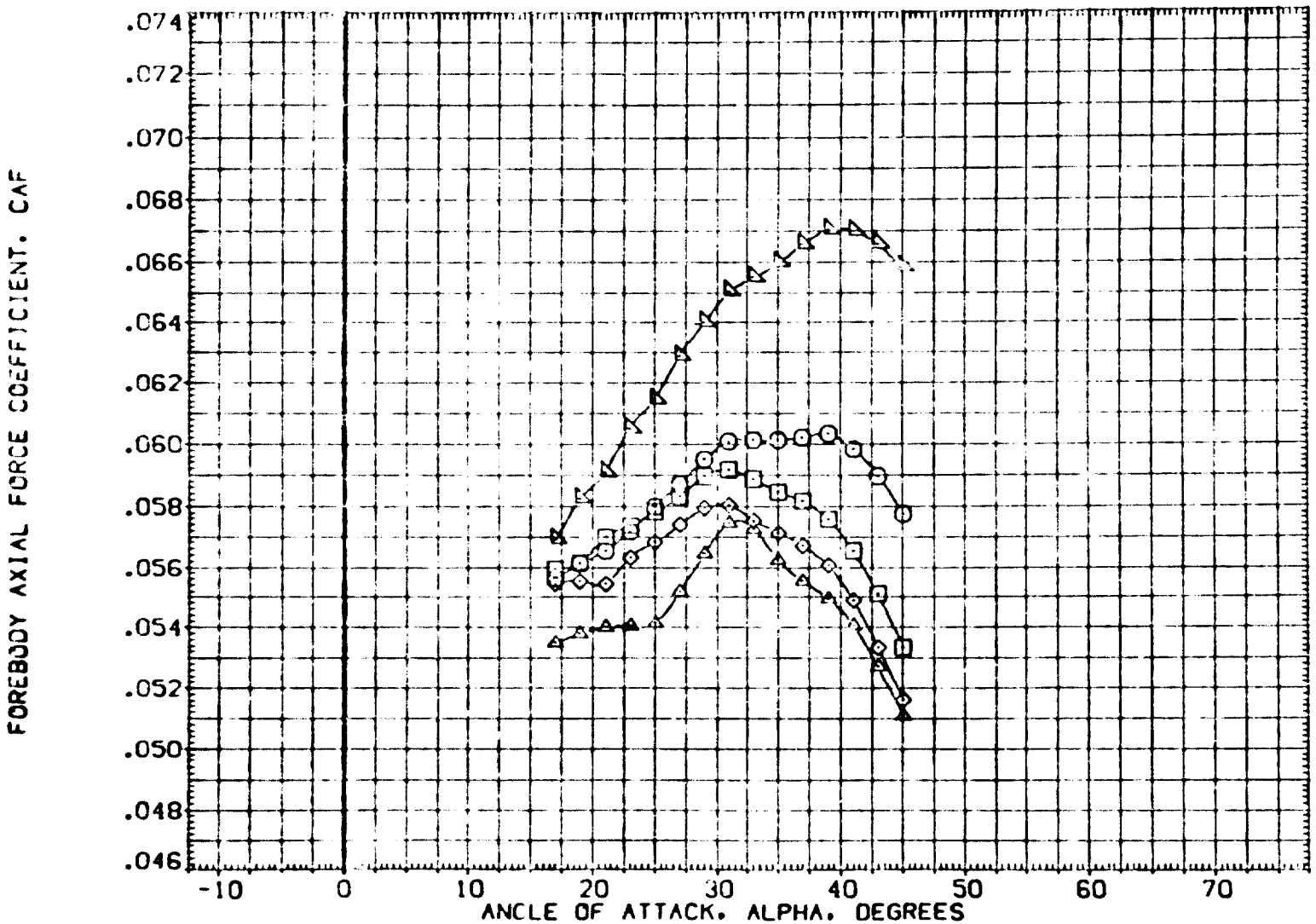


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV027)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-40.000	-40.000	.000
(CTV030)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-20.000	-20.000	.000
(CTV029)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	-10.000	-10.000	.000
(CTV001)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV028)	⊿	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	10.000	10.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

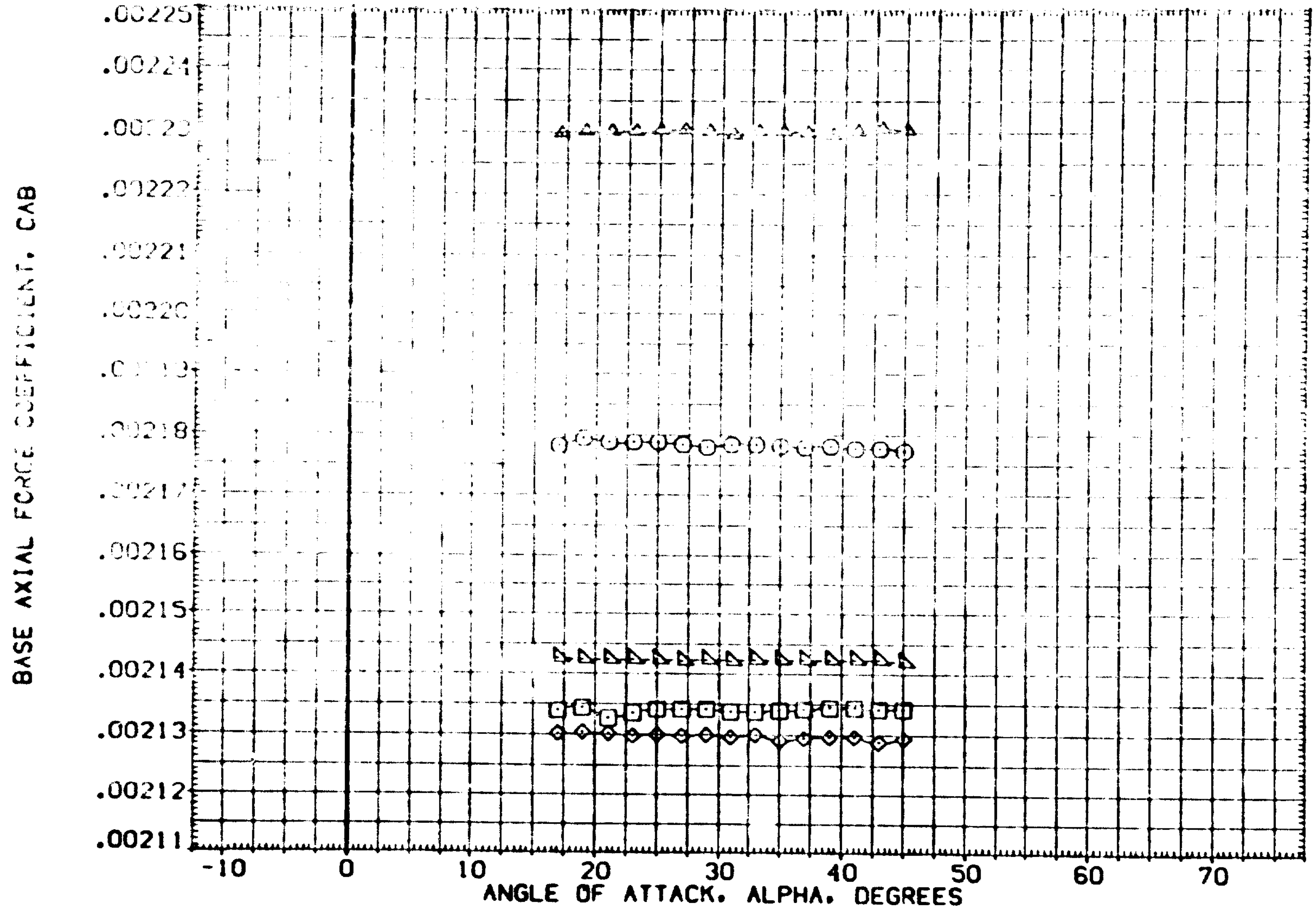


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED
(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CT 027)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CT 030)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CT 029)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CT 031)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CT 028)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	-40.000	-40.000	.000
.000	-20.000	-20.000	.000
.000	-10.000	-10.000	.000
.000	.000	.000	.000
.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2630.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1075.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

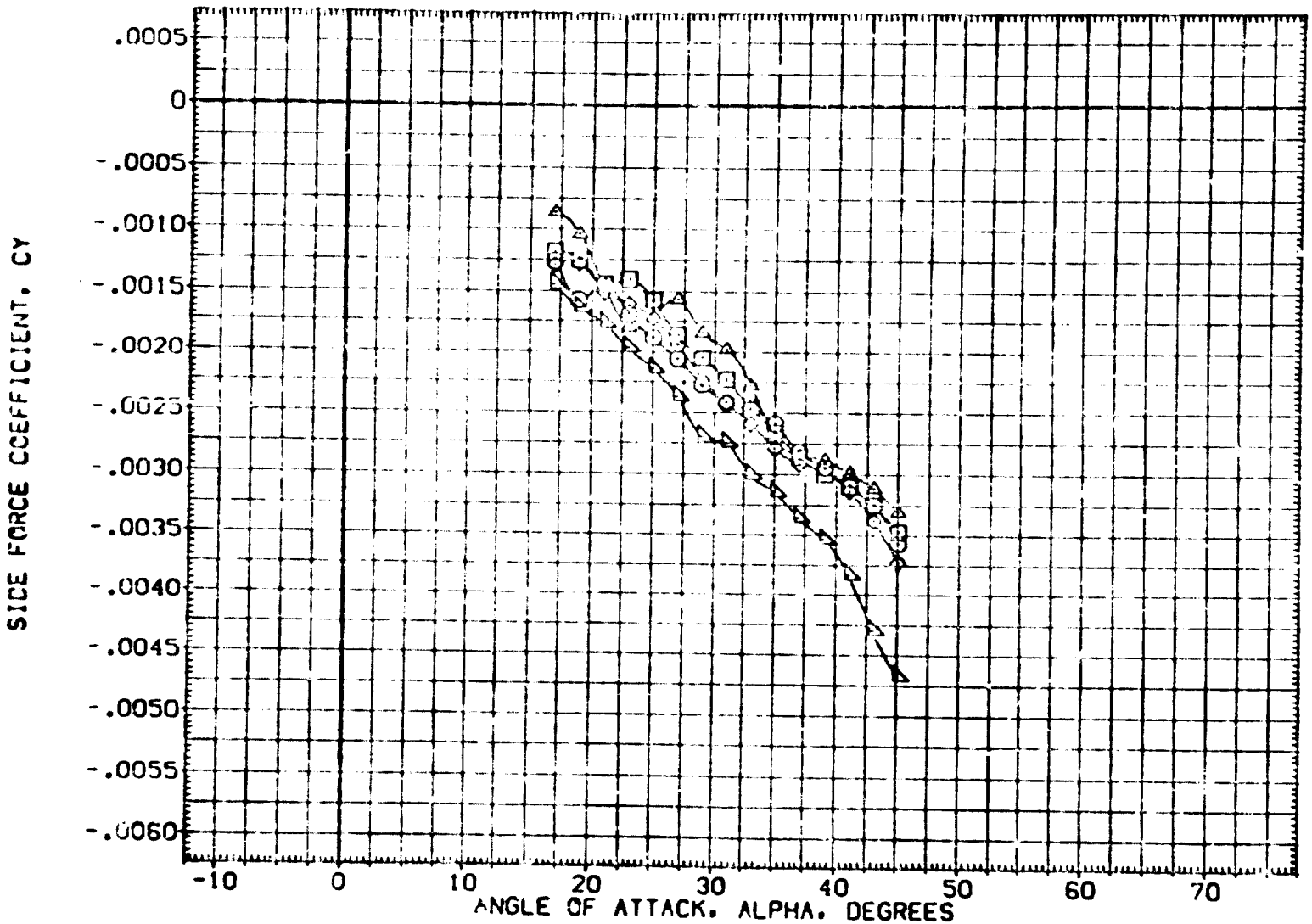


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW027)	□	0A79 B26 C9 E43 F8 M16 N09 R5 V8 W116
(ATW028)	○	0A79 B26 C9 E43 F8 M16 N08 R5 V8 W116
(ATW029)	◇	0A79 B26 C9 E 3 F8 M16 N08 R5 V8 W116
(ATW001)	▽	0A79 B26 C9 E4J F8 M16 N09 R5 V8 W116
(ATW028)	△	0A79 B26 C9 E43 F8 M16 N08 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	-40.000	-40.000	.000
.000	-20.000	-20.000	.000
.000	-10.000	-10.000	.000
.000	.000	.000	.000
.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	736.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

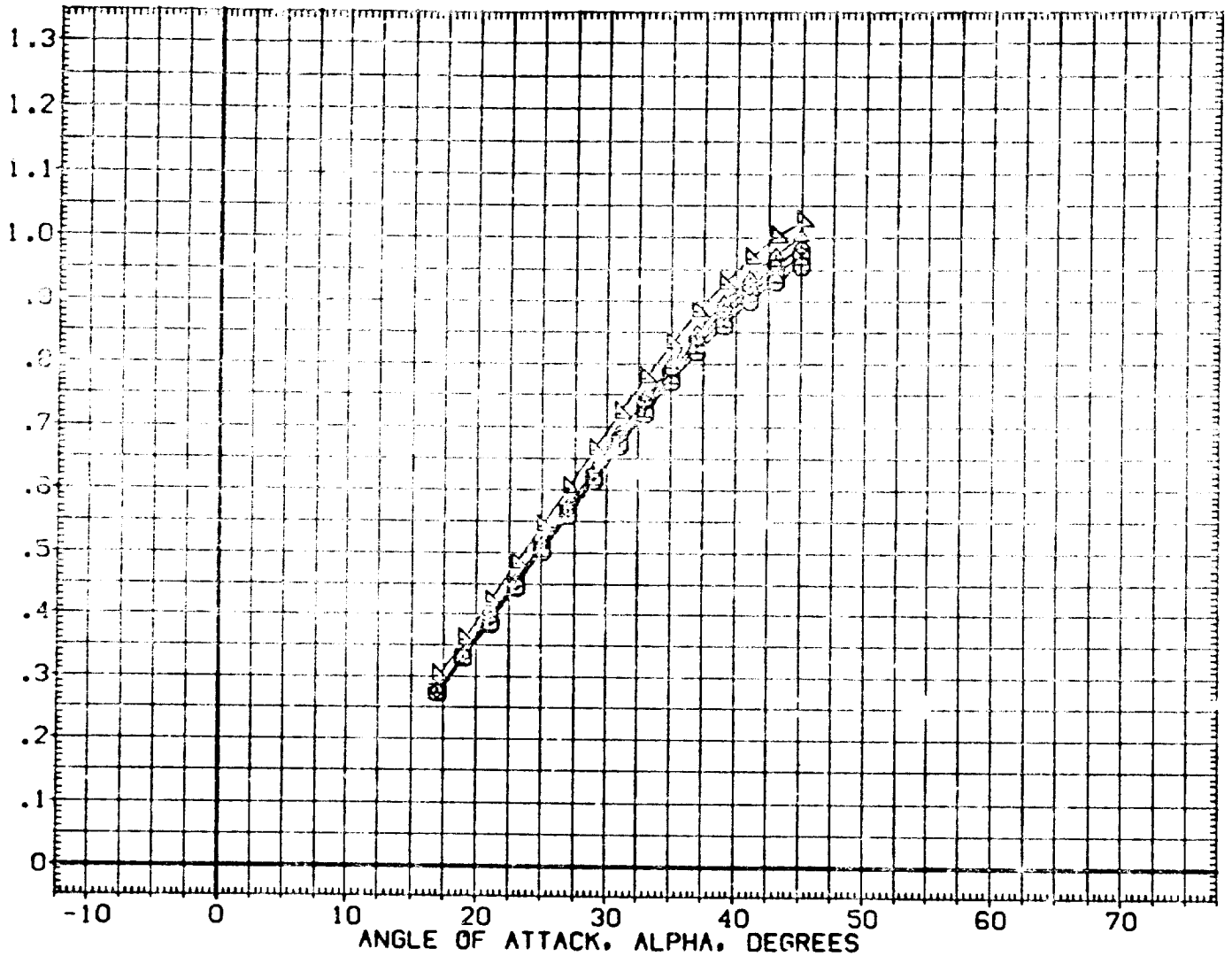


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV027)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000
(ATV030)		OA79 B26 C9 E43 F8 M16 N26 R5 V8 W116	.000	-20.000	-20.000	.000
(ATV029)		OA79 B26 C9 E43 F8 M16 N26 R5 V8 W116	.000	-10.000	-10.000	.000
(ATV001)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(ATV028)		OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.0800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

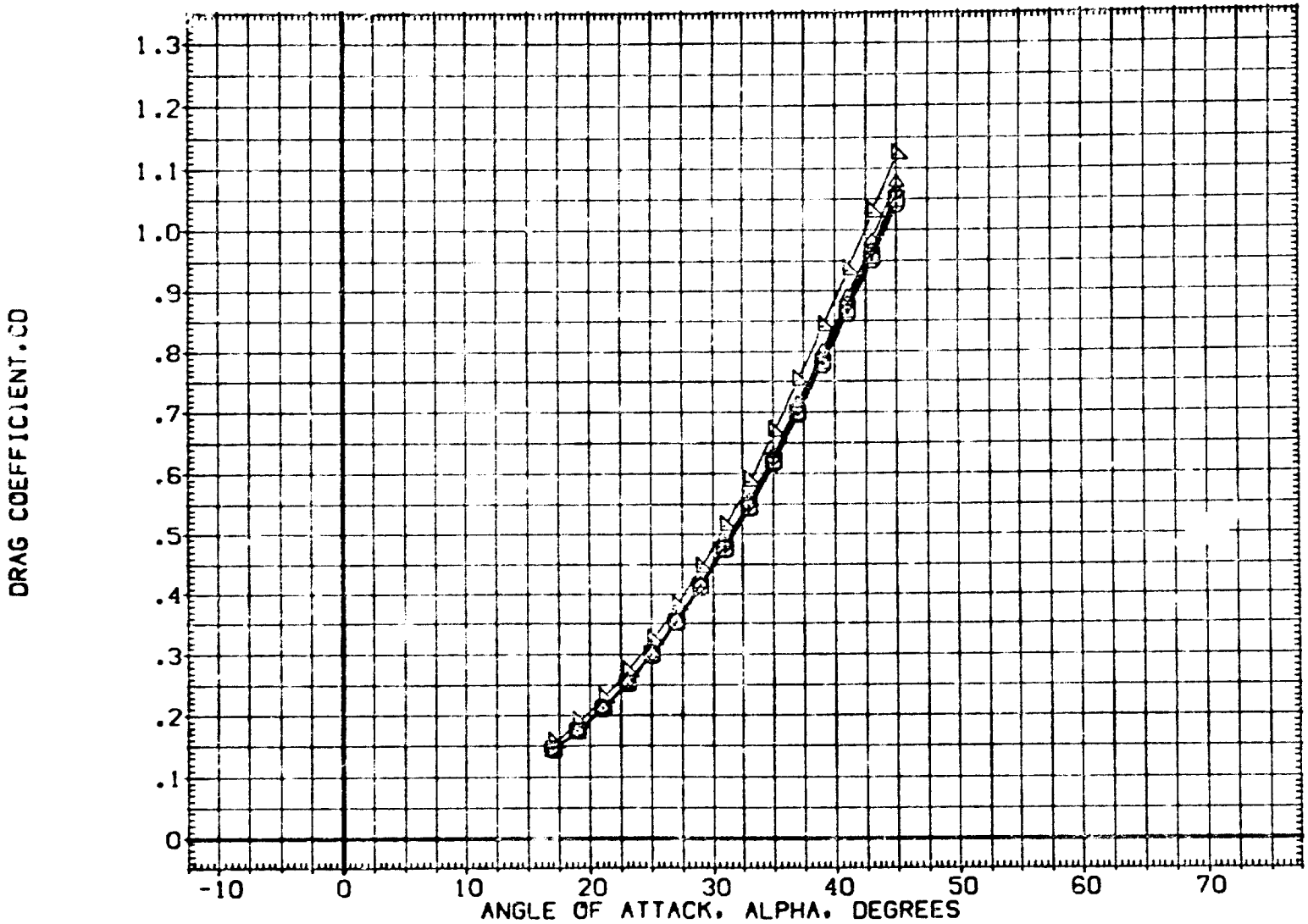


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(ATV027)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV030)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV029)	0A79 B26 C5 E43 F8 M16 N28 R5 V3 W116
(ATV001)	0A79 B26 C9 E43 F8 M16 N28 R5 V3 W116
(ATV028)	0A79 B26 C9 E43 F8 M16 N28 R5 V3 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
.000	-40.000	-40.000	.000
.000	-20.000	-20.000	.000
.000	-10.000	-10.000	.000
.000	.000	.000	.000
.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5400	IN.
XMRP	1076.5219	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

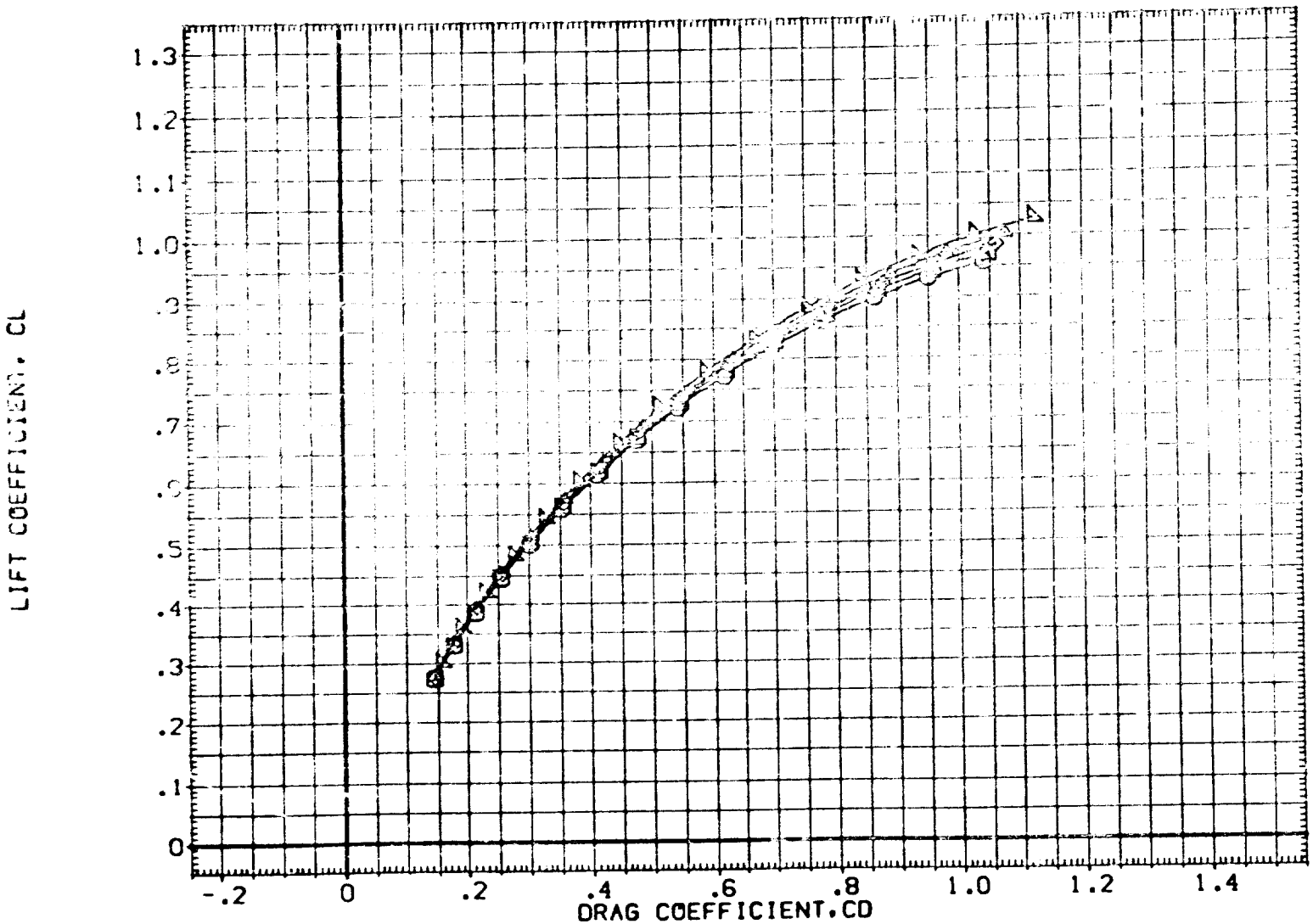


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV027)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-40.000	-40.000	.000
(ATV030)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-20.000	-20.000	.000
(ATV029)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	-10.000	-10.000	.000
(ATV001)	⋈	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(ATV028)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	10.000	10.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

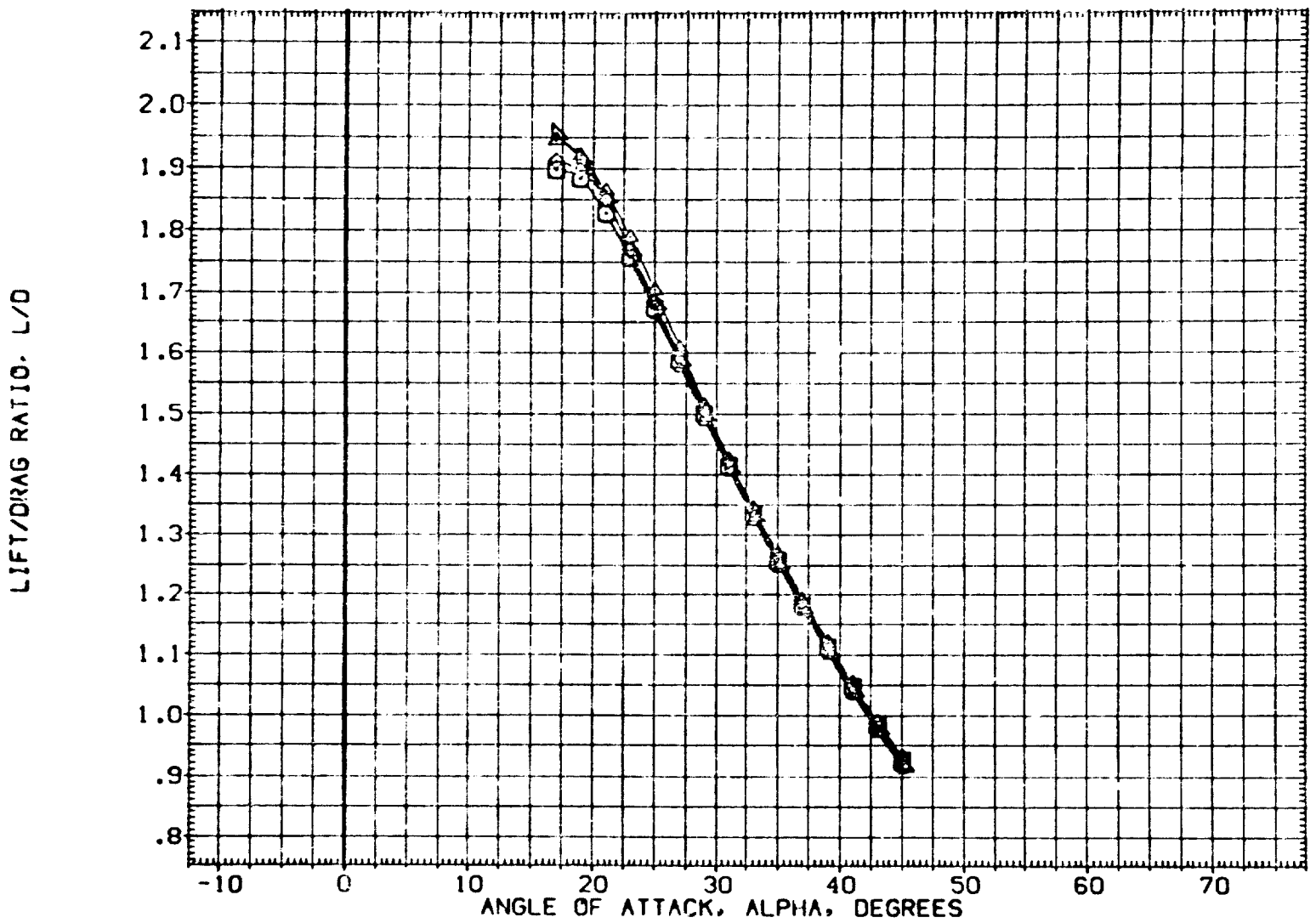


FIG. 11 INBOARD ELEVON EFFECTIVENESS WITH OUTBOARD UNDEFLECTED

(A)MACH = 8.00

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	19.000	SFLBAR	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	774.8100	IN.
◇	21.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
△	23.000					DTW028	10.000			XMRP	1076.6800	IN.XB
▱	25.000									YMRP	.0000	IN.YB
▱	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

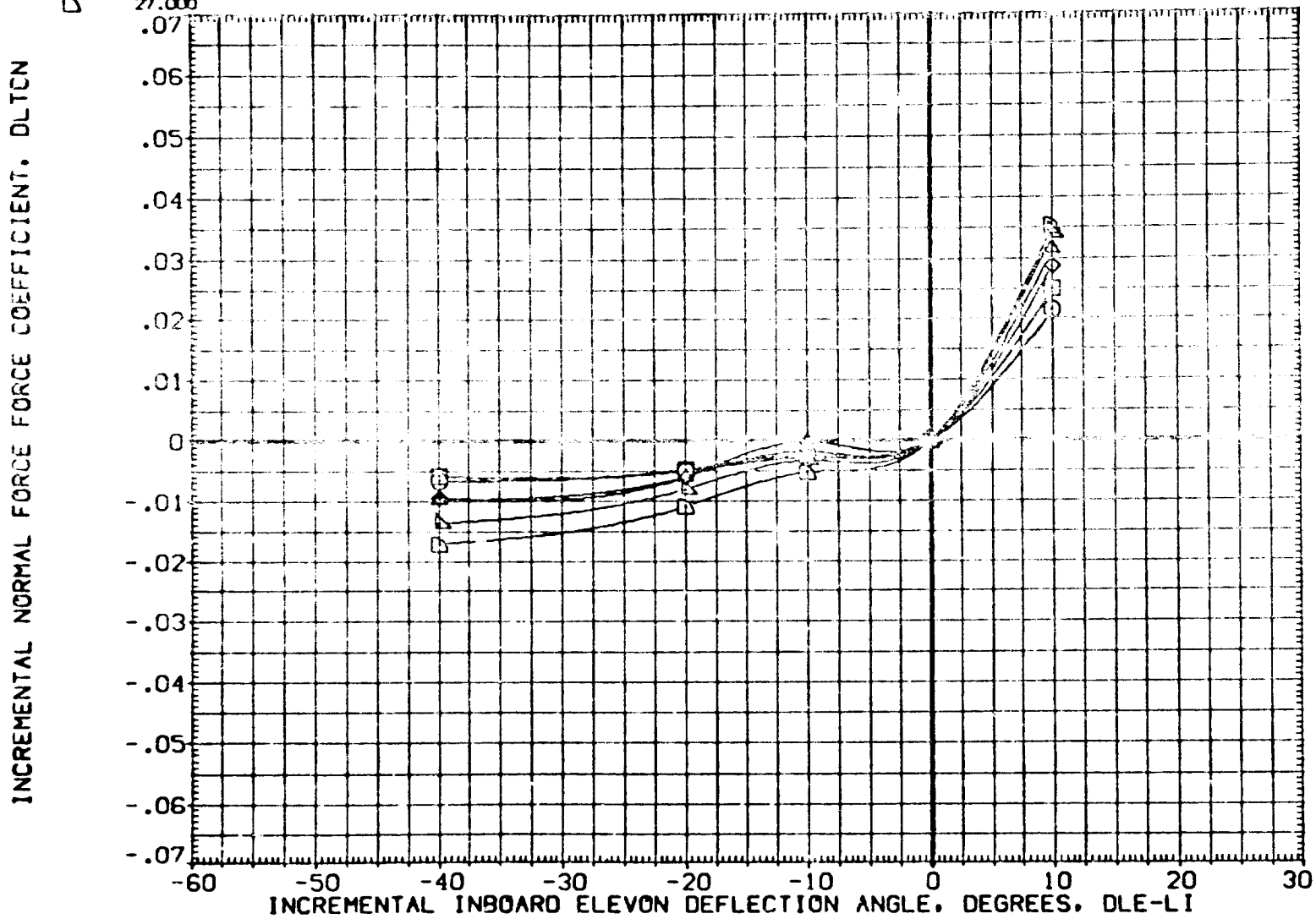


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

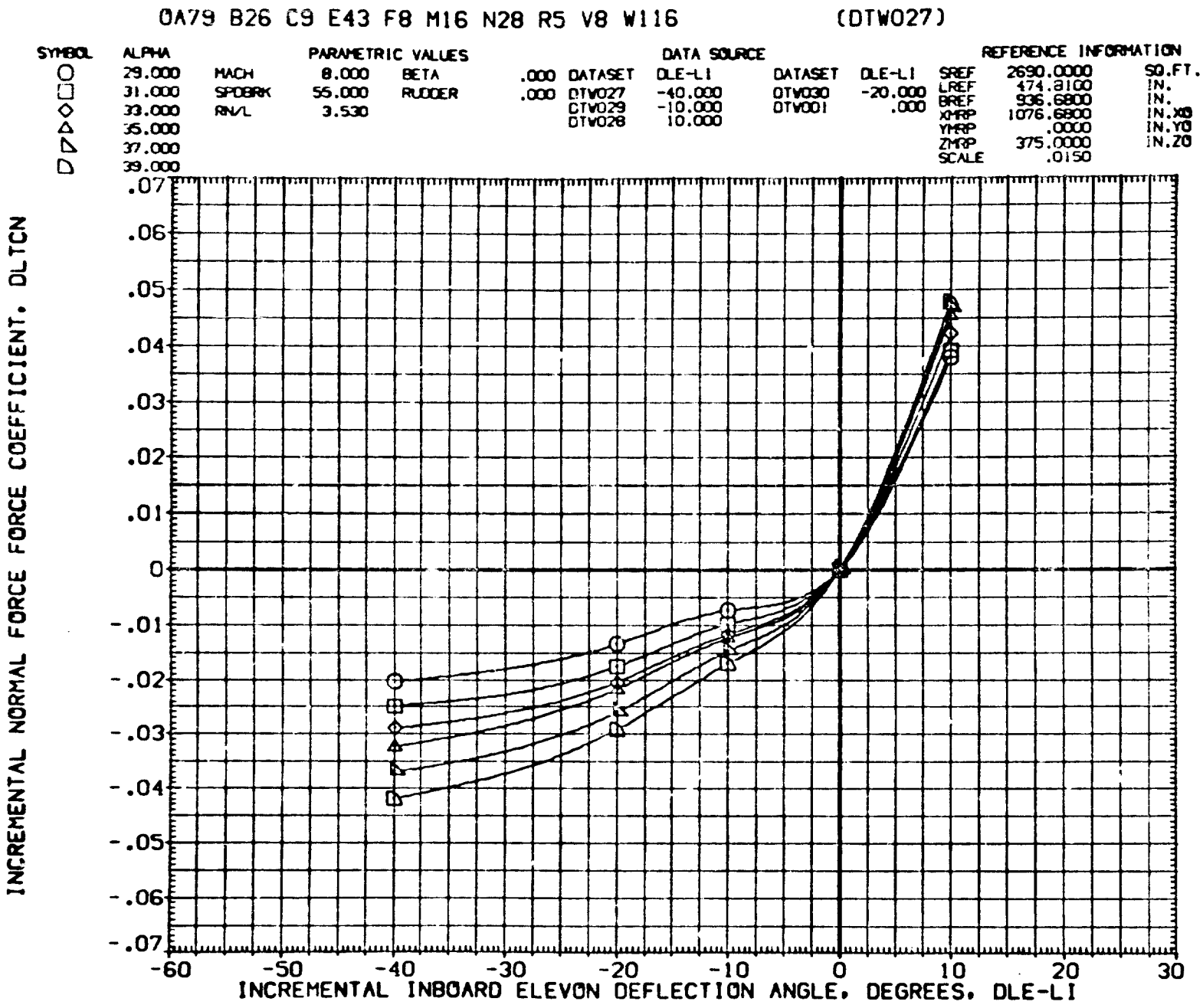


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	45.000	REYL	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

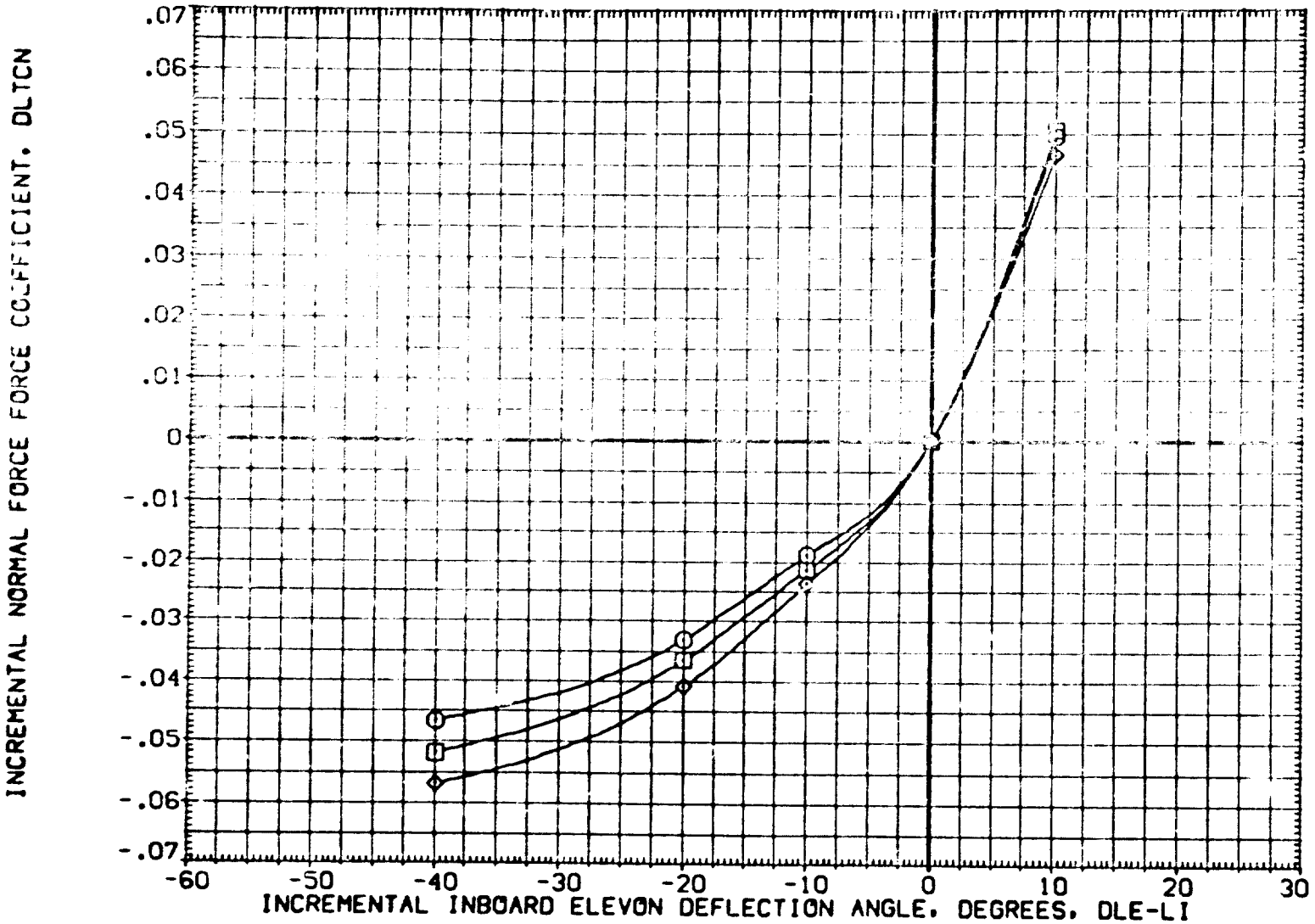


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

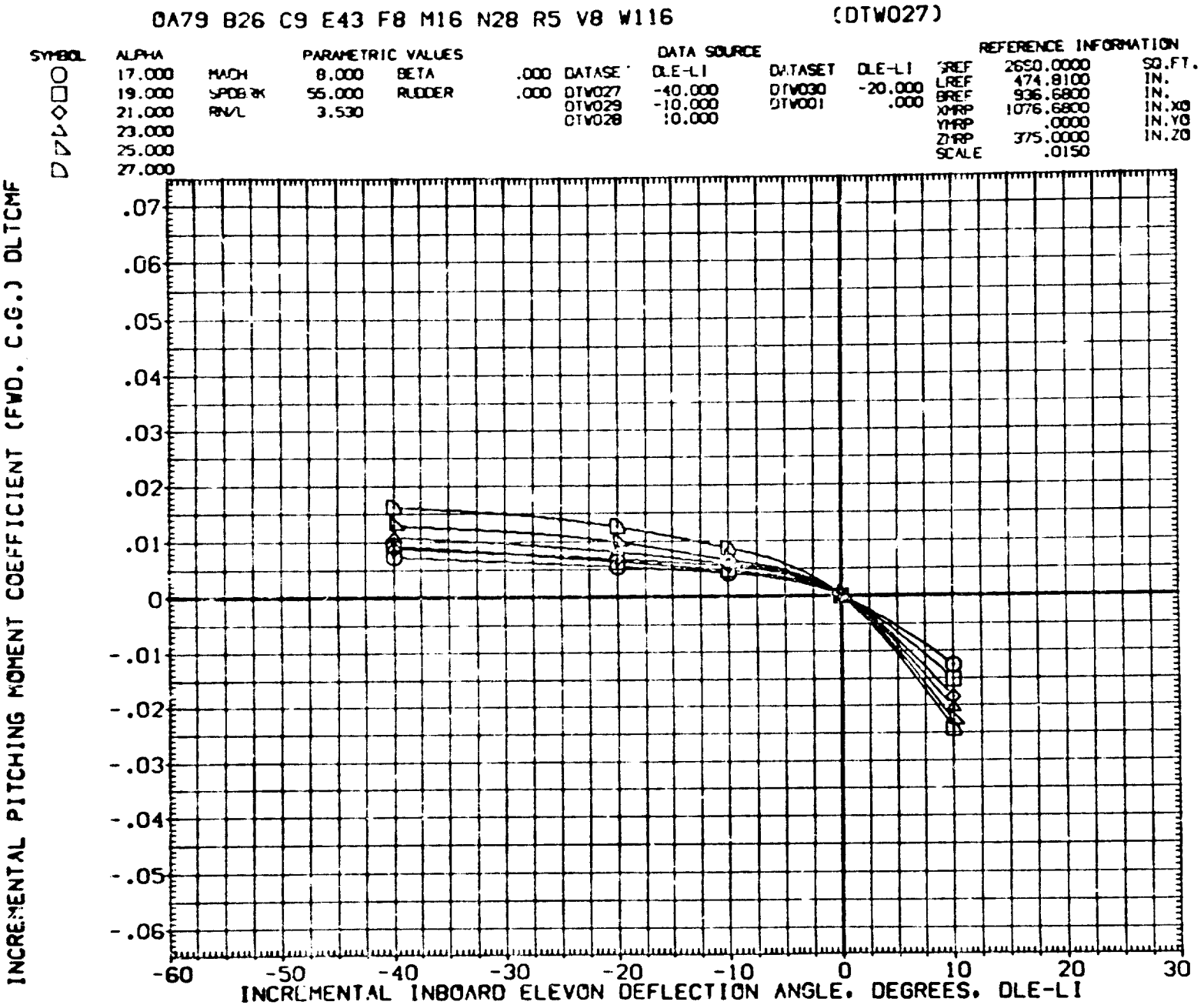


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

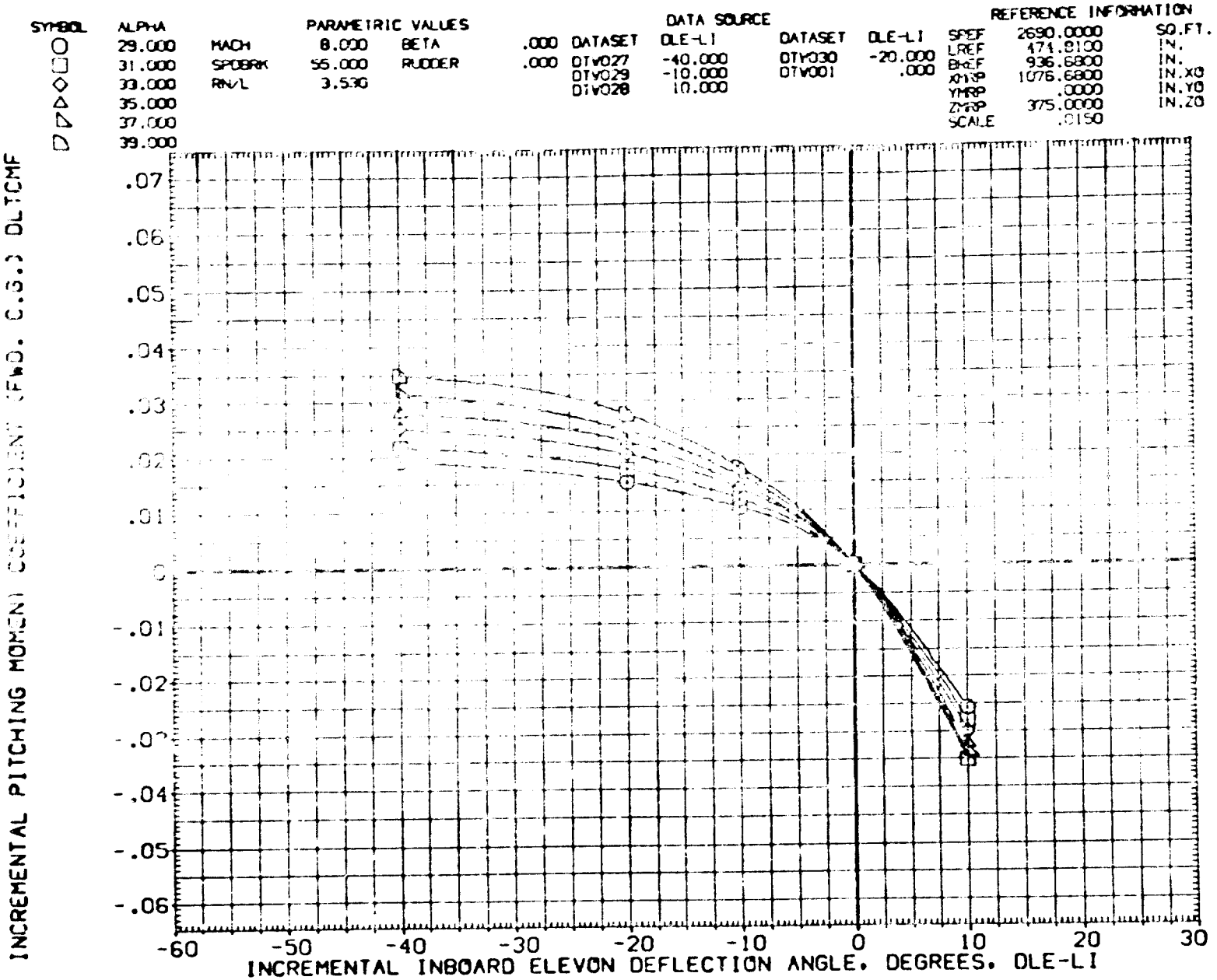


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

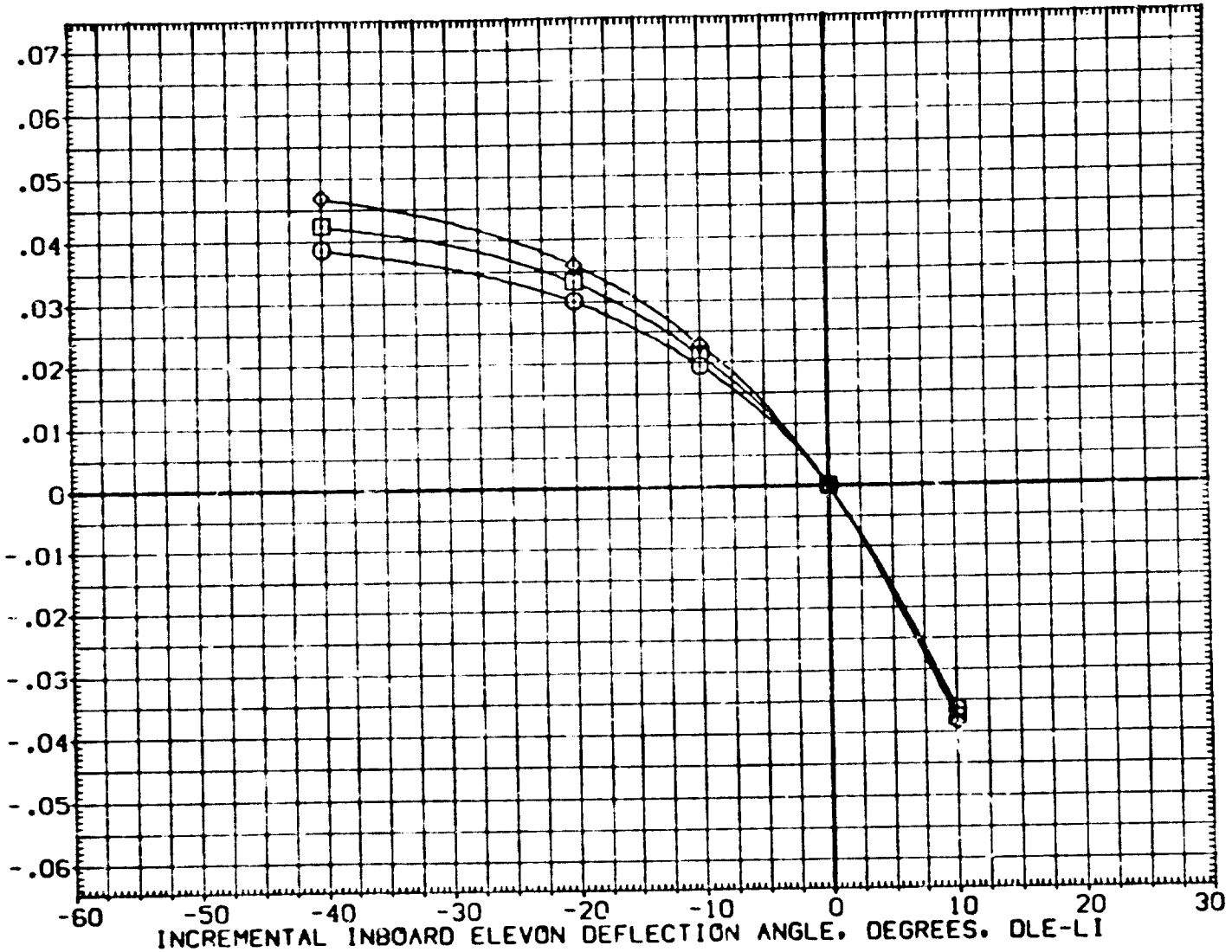


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2630.0000	SQ.FT.
△	19.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	21.000	RNVL	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
□	23.000					DTW028	10.000			XMRP	1076.6800	IN.XB
▽	25.000									YMRP	.0000	IN.YB
	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

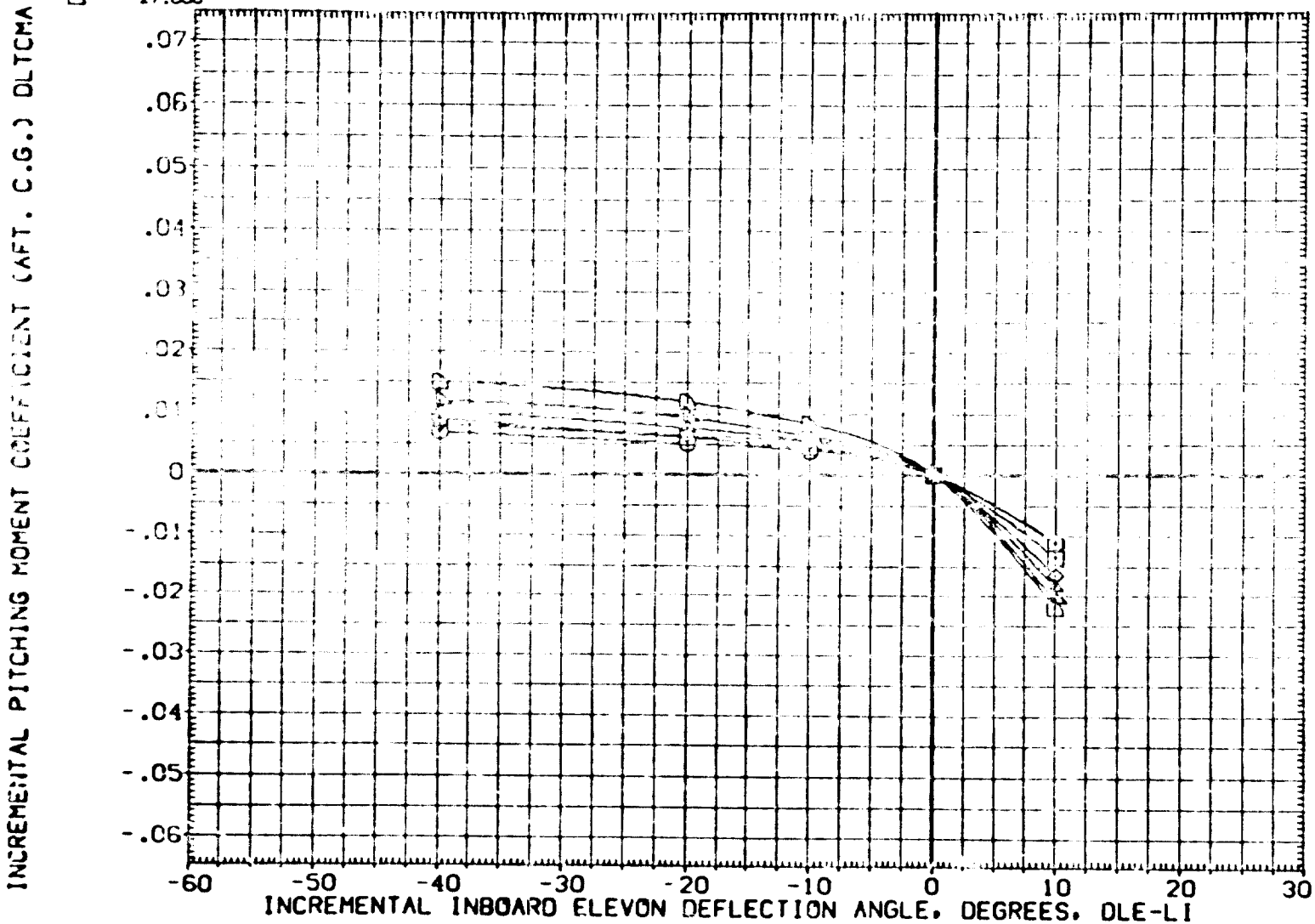
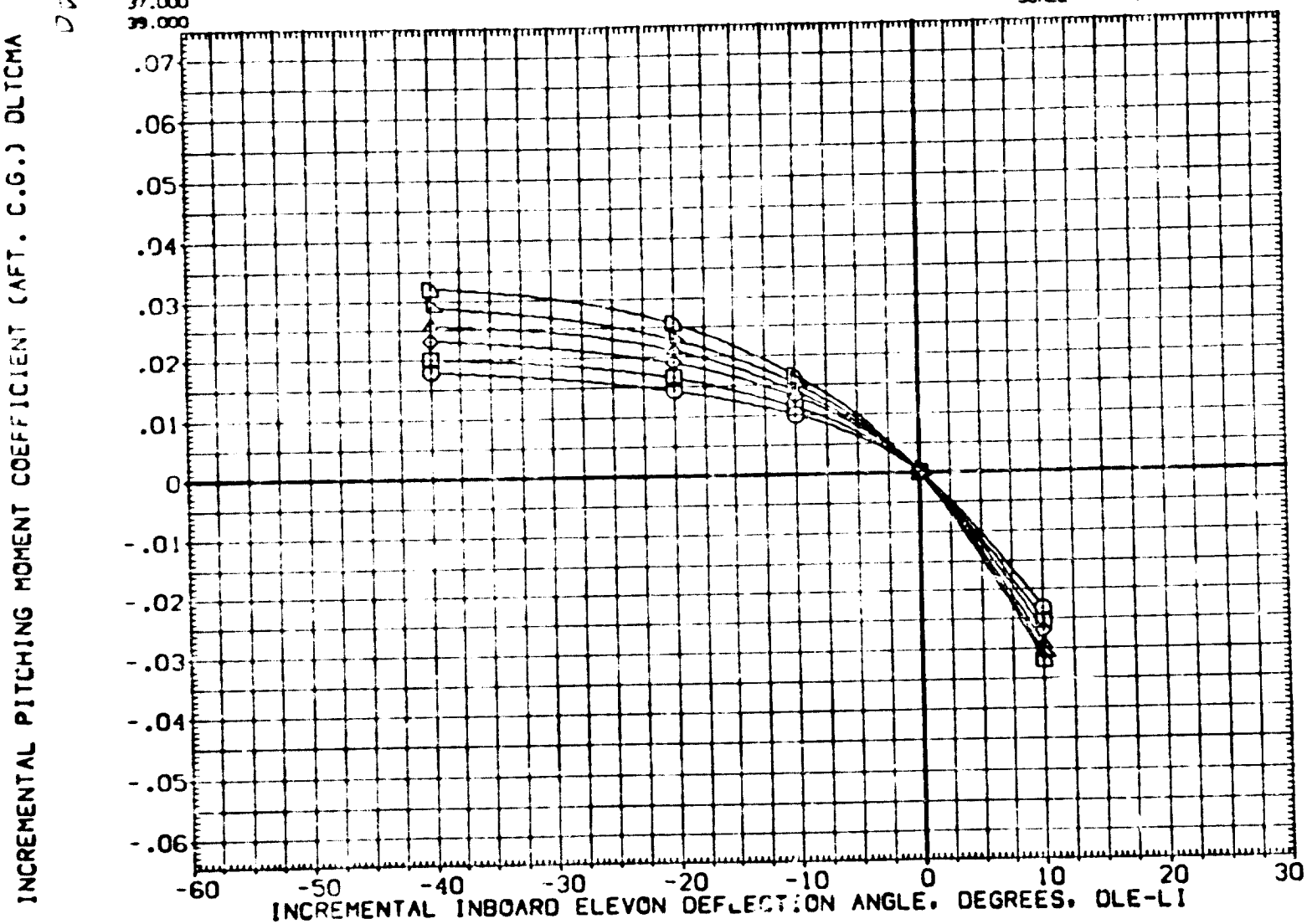


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
▽	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
◇	31.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
△	33.000	RNVL	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
▷	35.000					DTW028	10.000			XMRP	1076.6800	IN.XB
○	37.000									YMRP	.0000	IN.YB
□	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	



INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT. C.G.) DLTCMA

FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000
◇	45.000	RNVL	3.530			DTW029	-10.000	DTW001	.000
						DTW028	10.000		

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

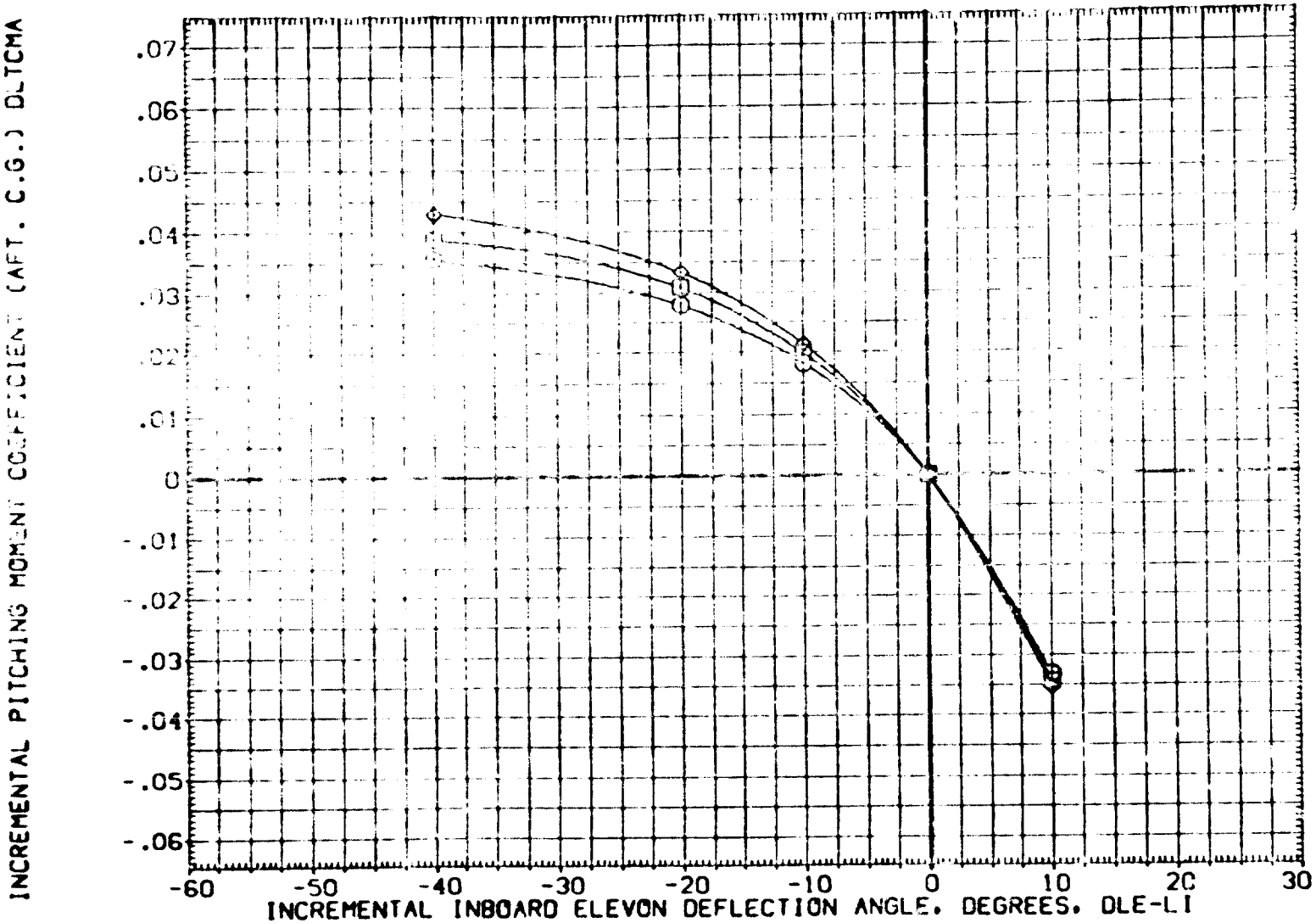


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

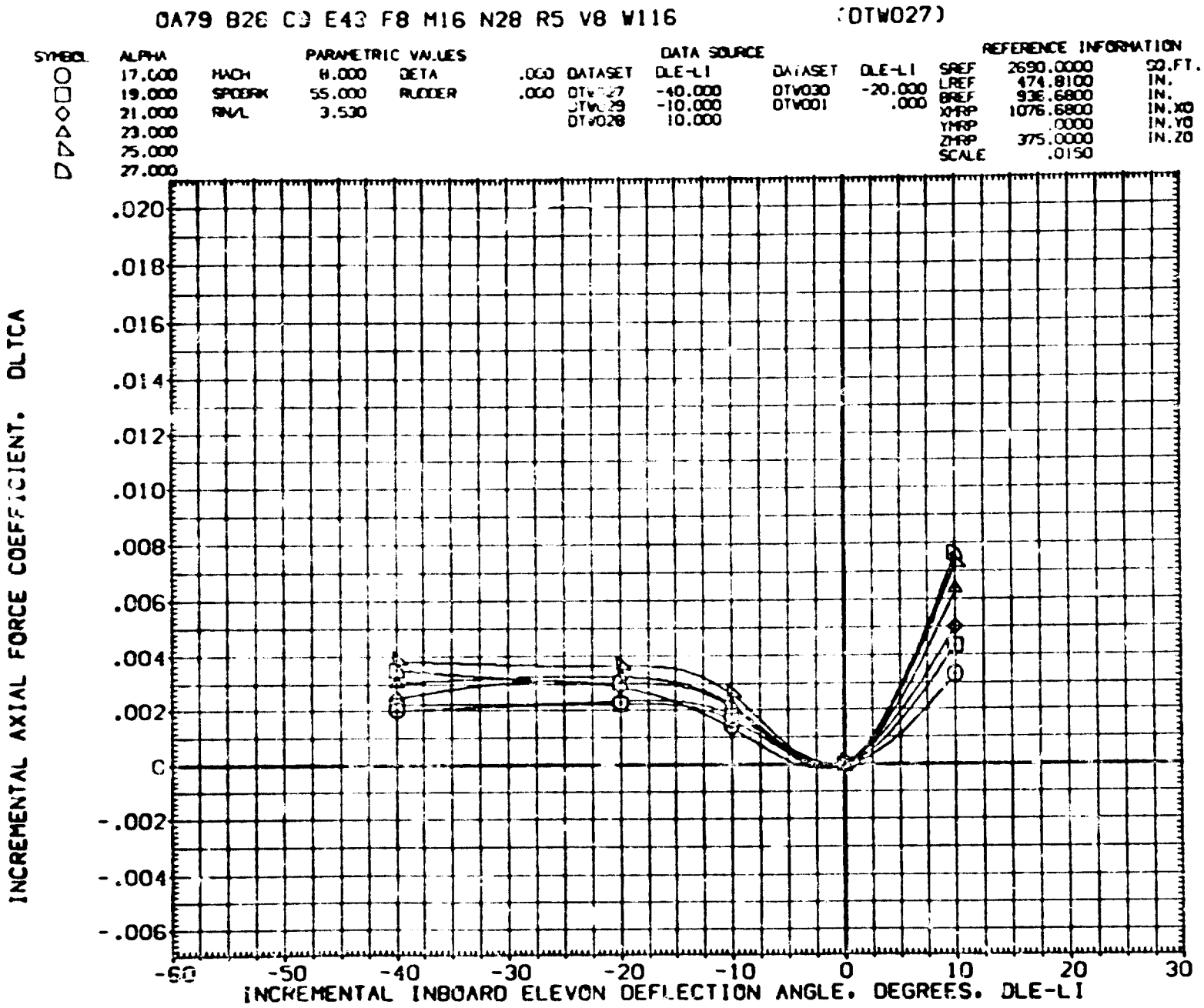


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	31.000	SPDBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	33.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
△	35.000					DTW028	10.000			XMRP	1076.6800	IN.XB
▽	37.000									YMRP	.0000	IN.YB
▷	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

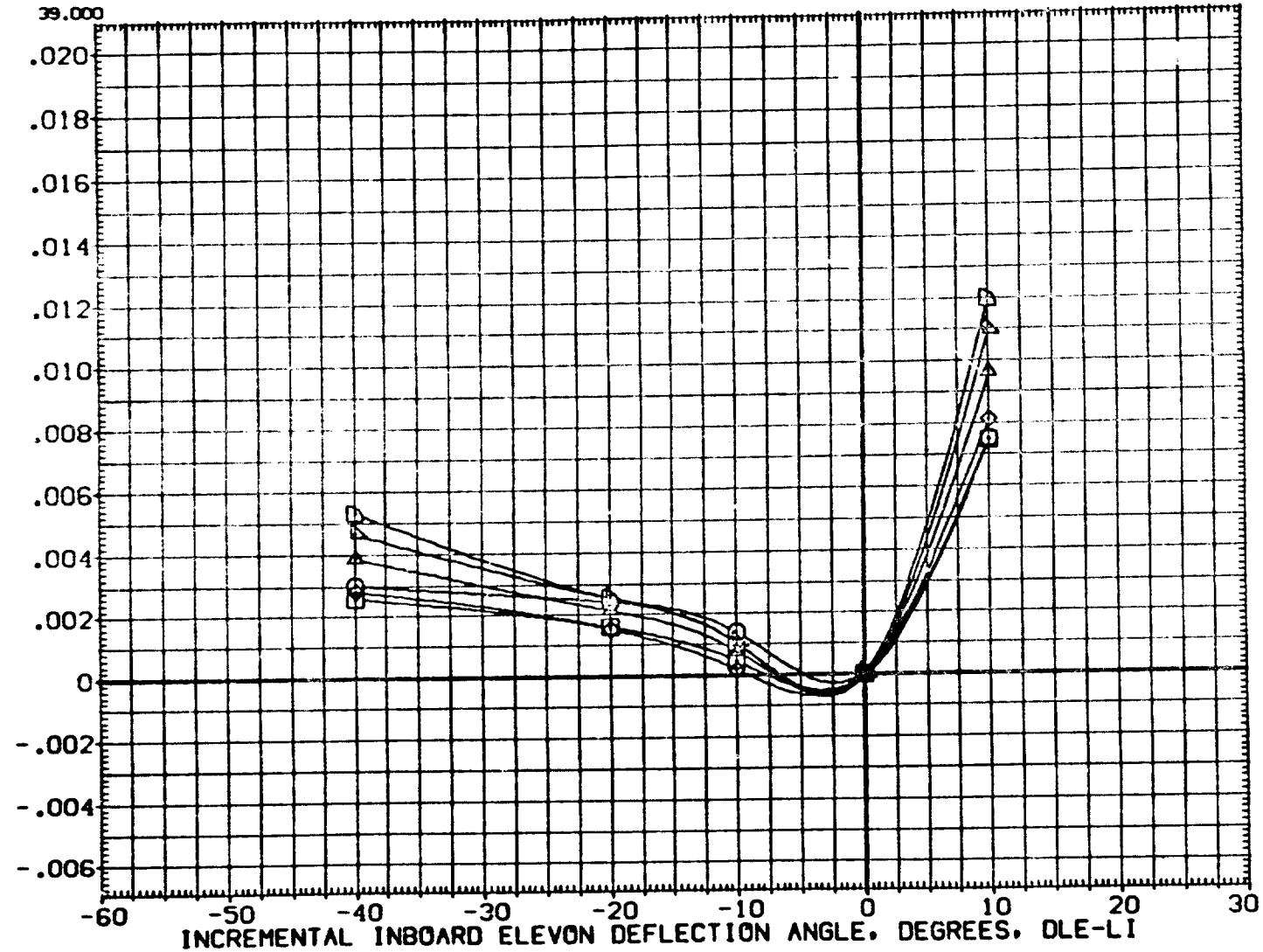


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	40.000	DTW030	-20.000	LREF	474.9100	IN.
◇	45.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

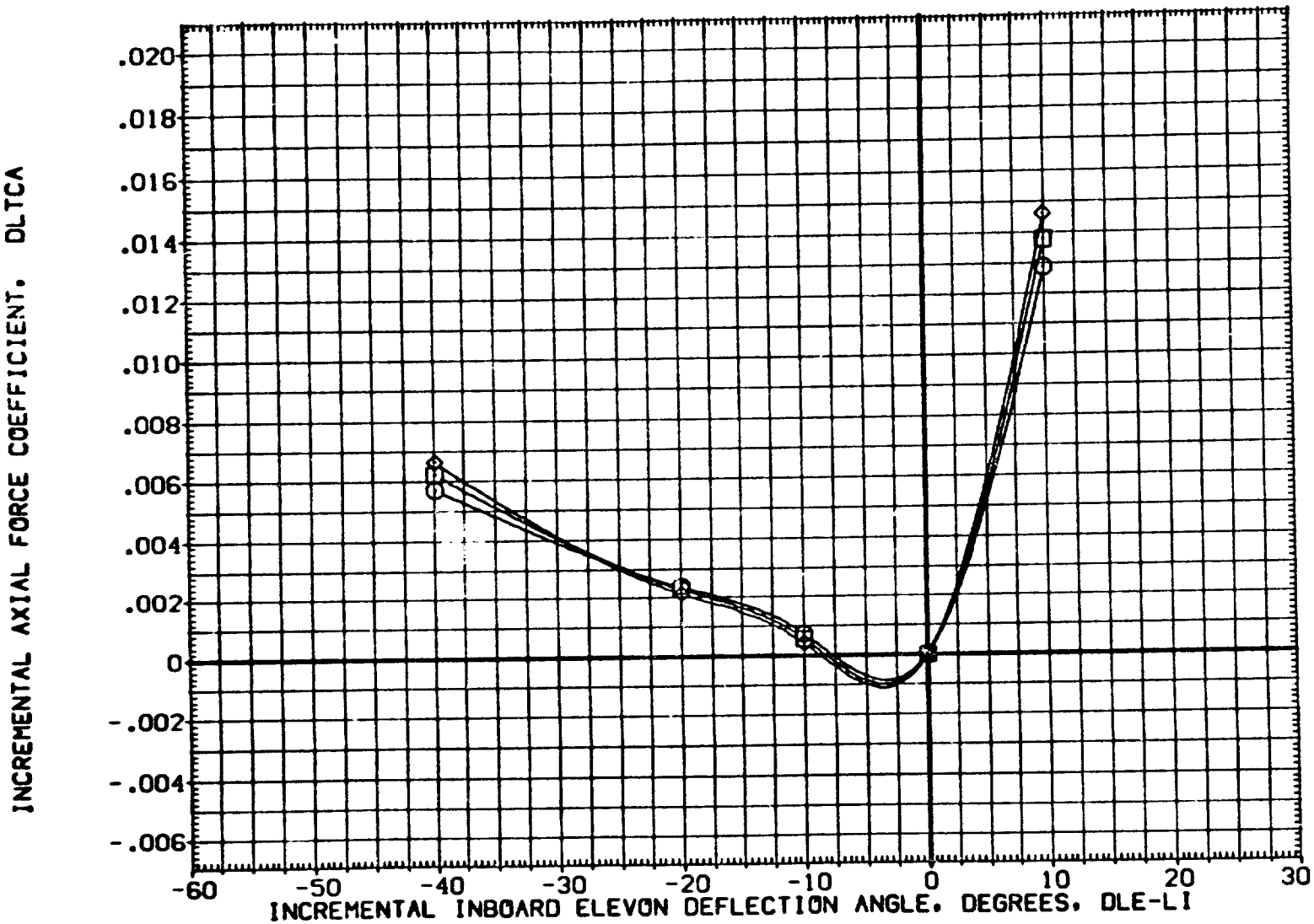


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

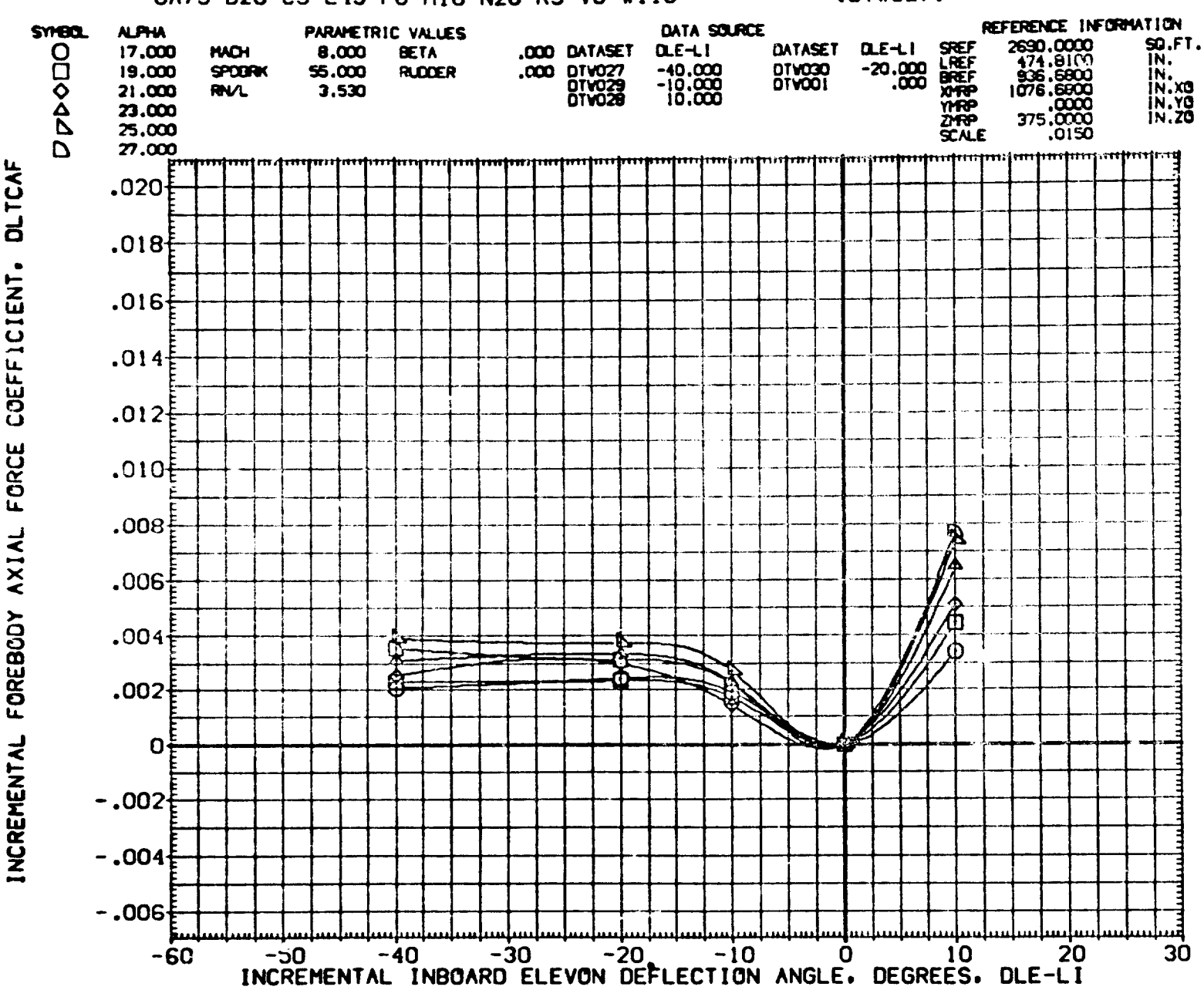


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

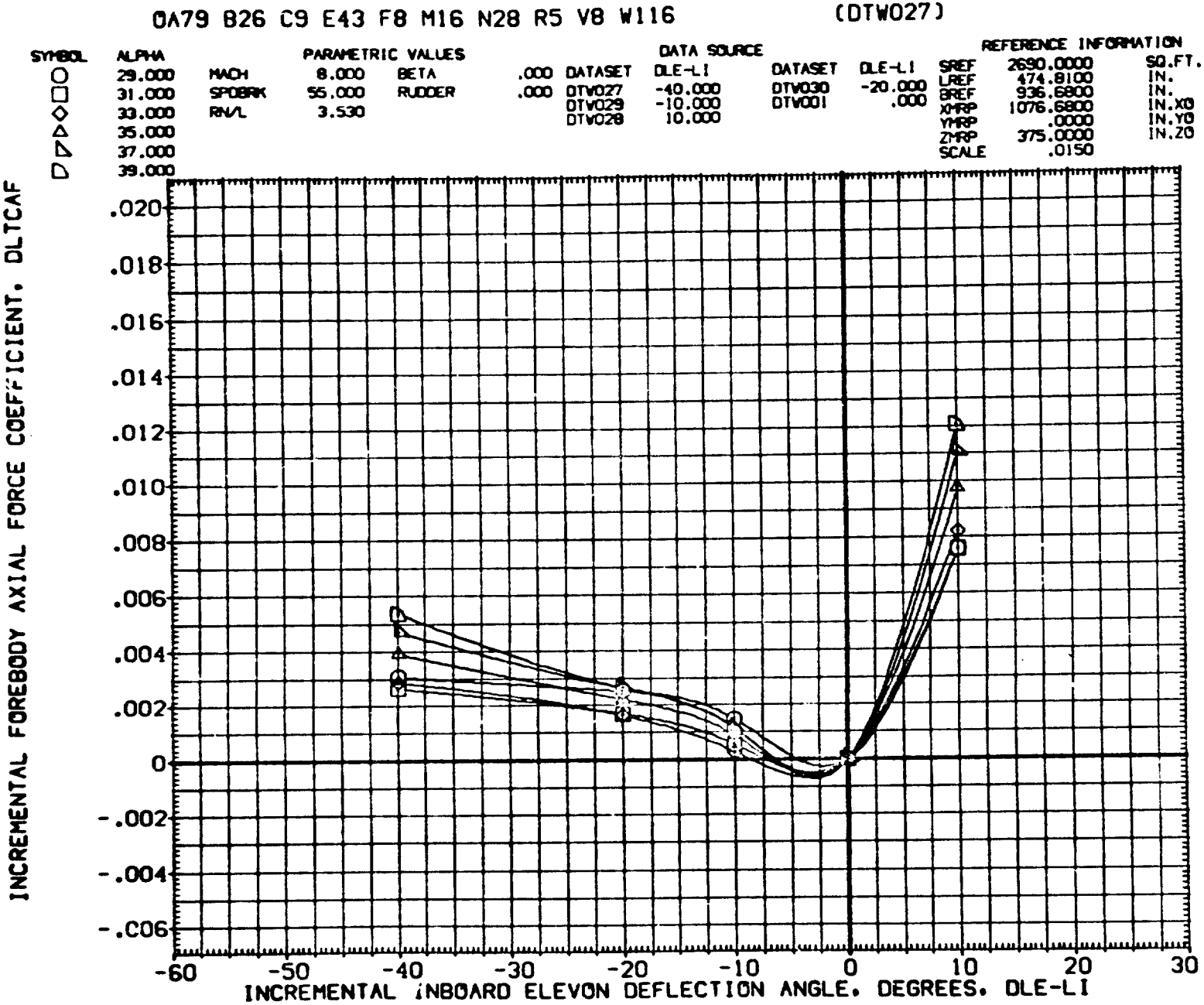


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

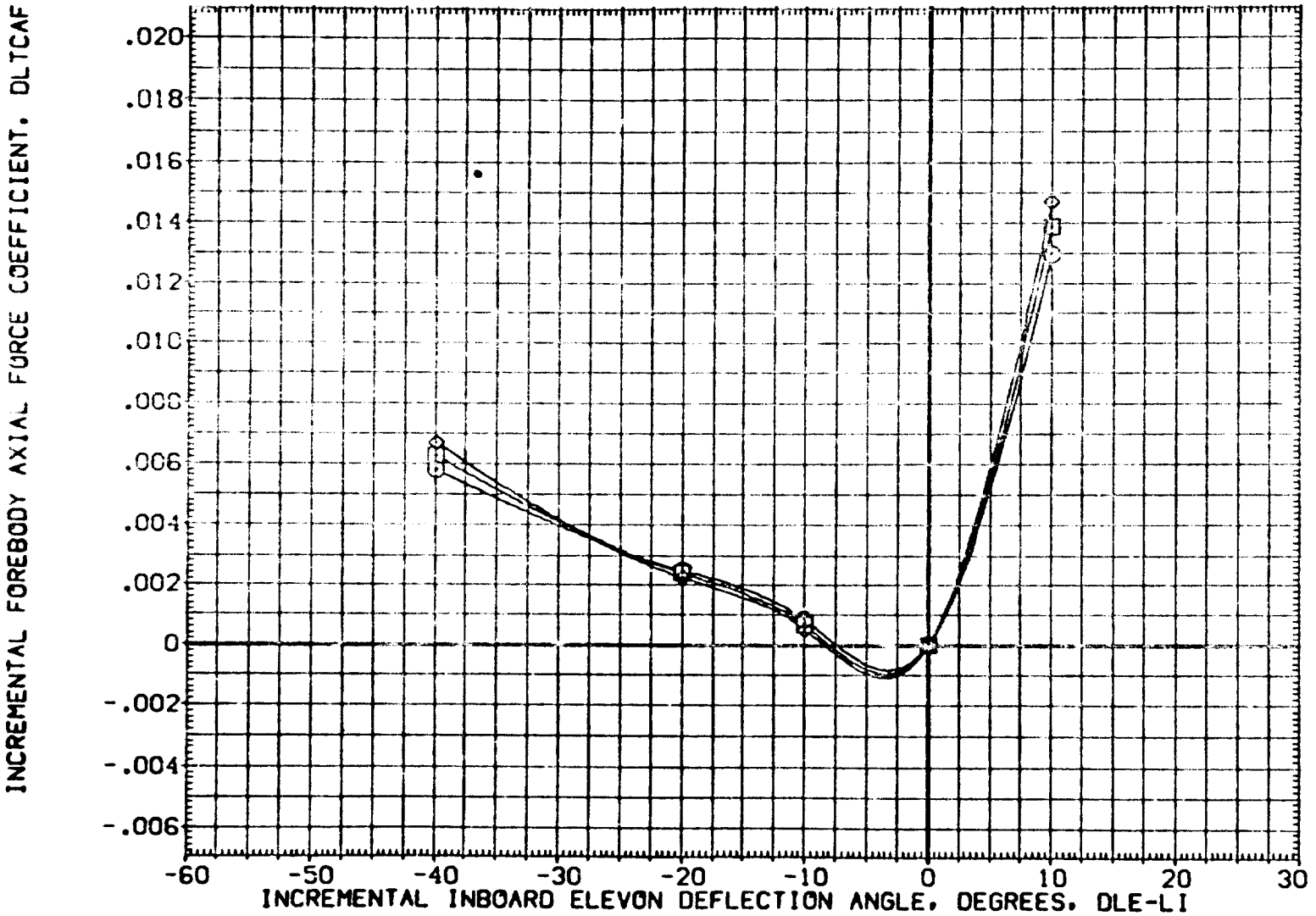


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

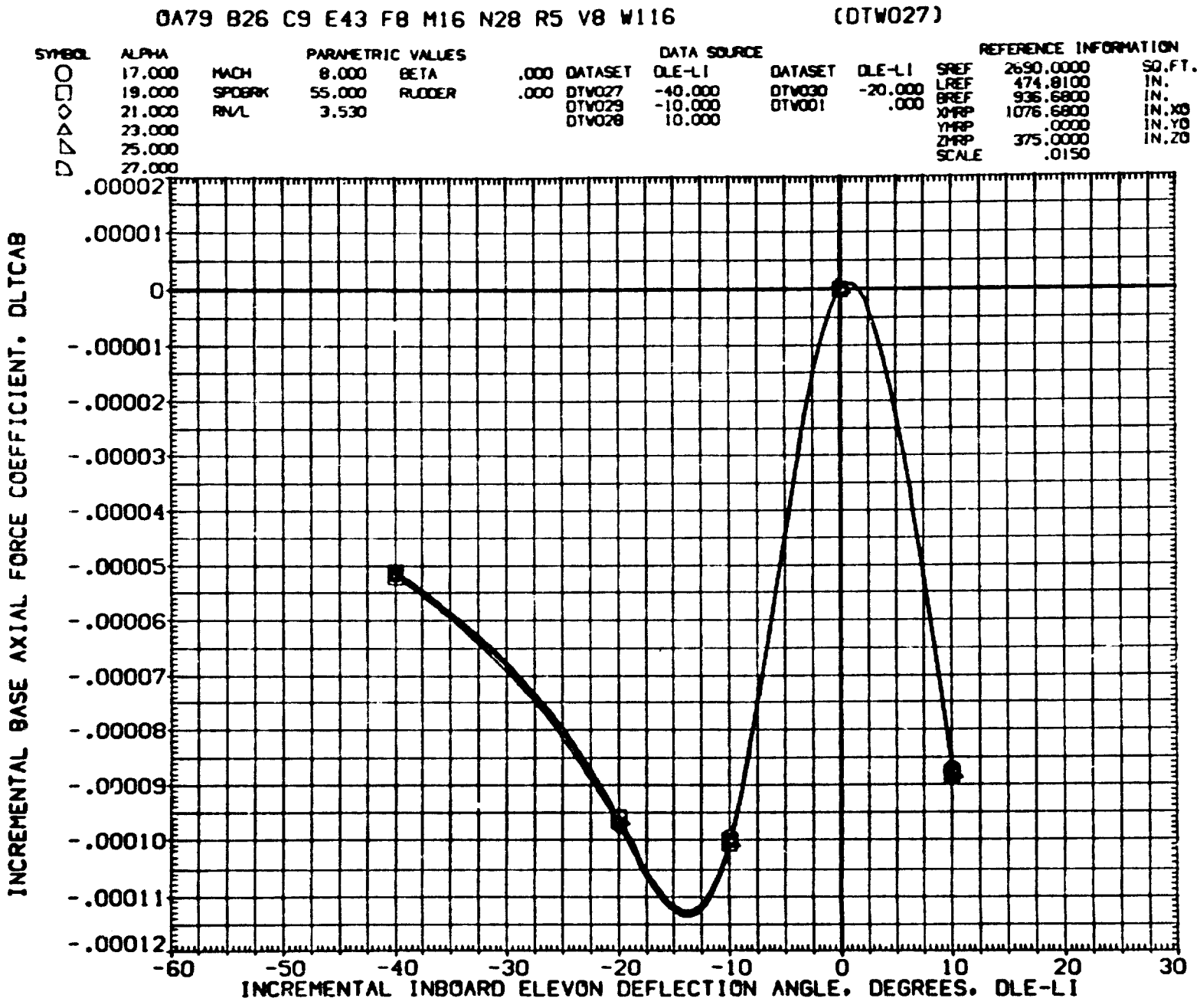


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

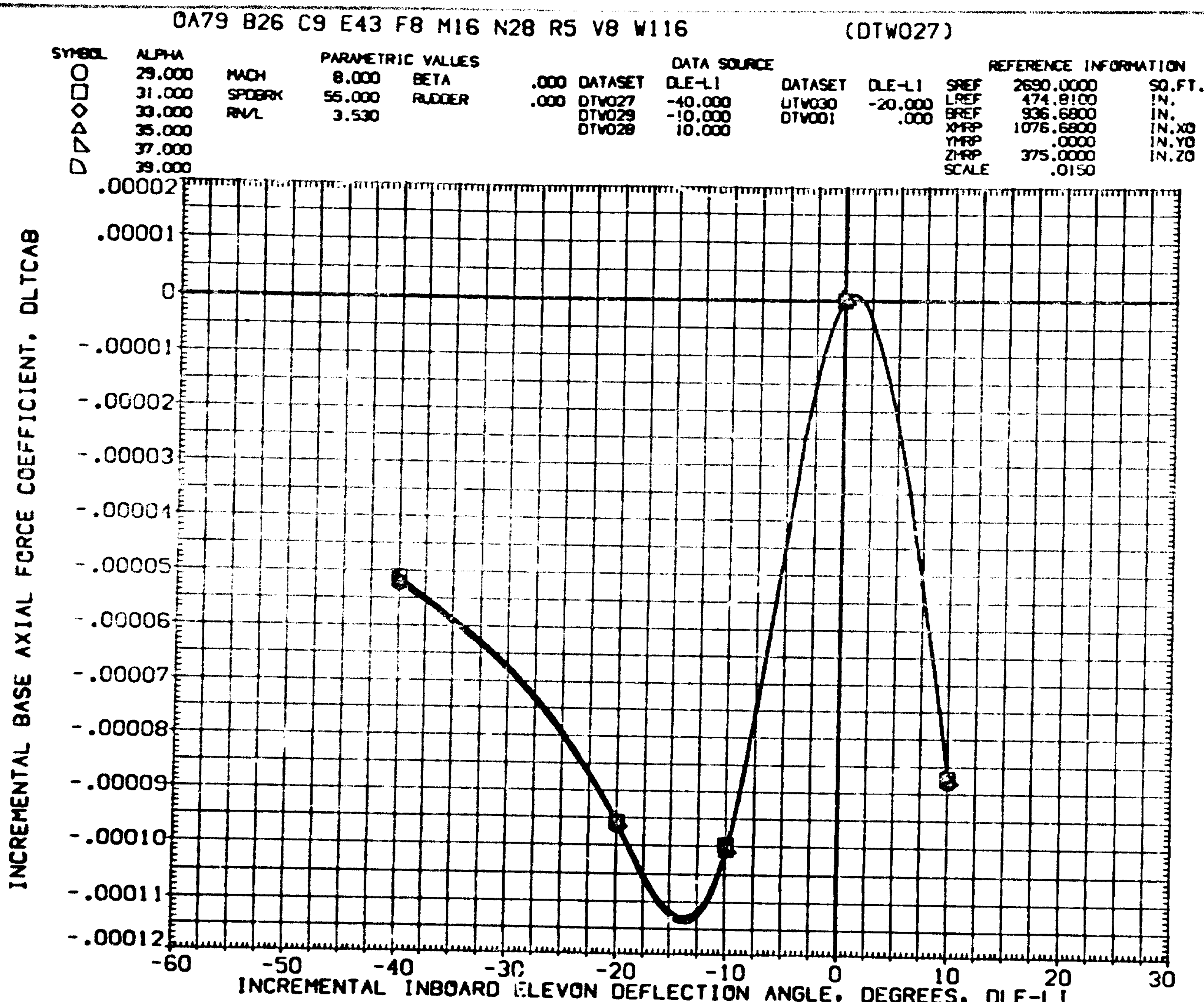


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

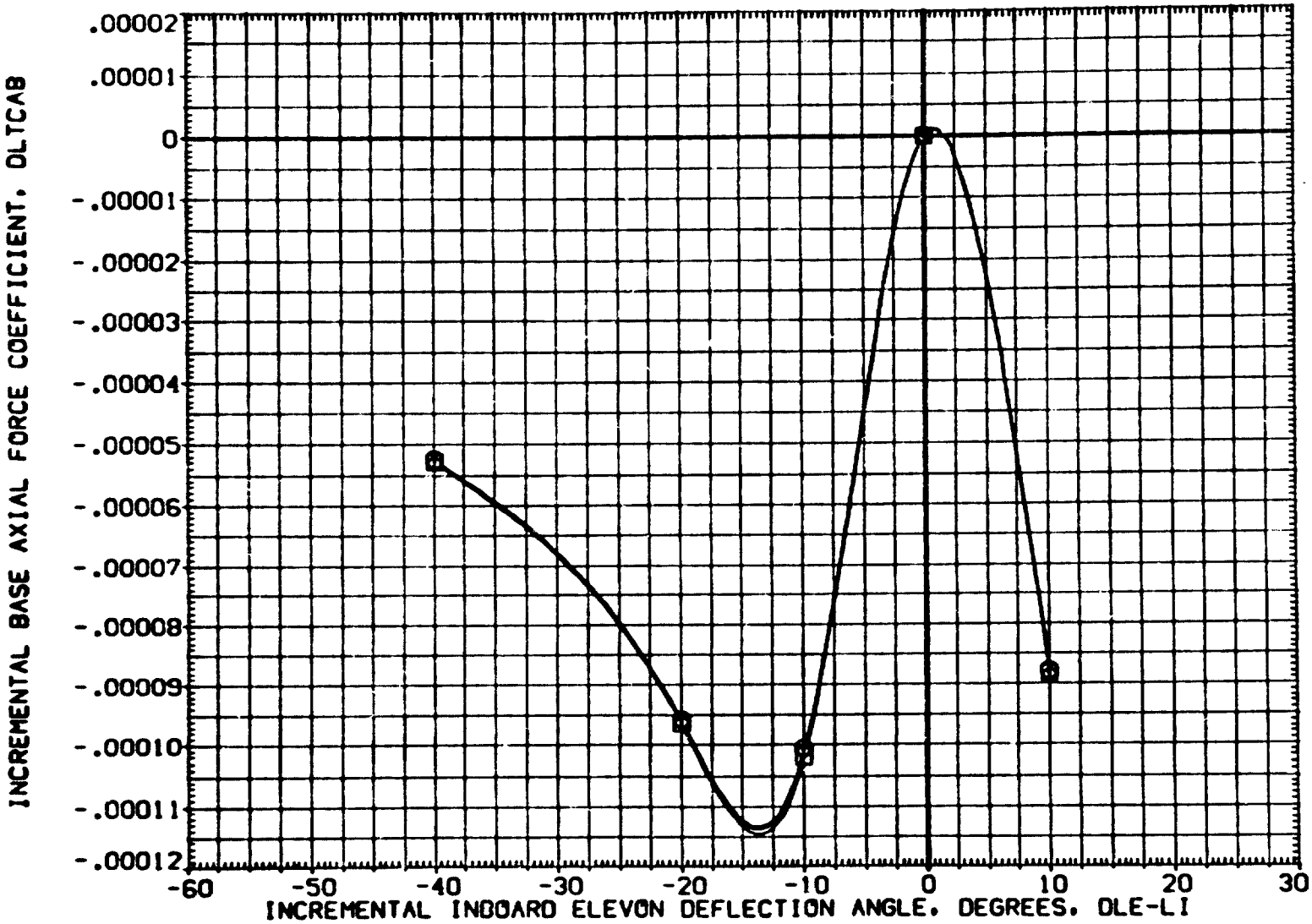


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	19.000	SPDBRK	56.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
△	23.000					DTW028	10.000			XMRP	1076.6800	IN.X0
▷	25.000									YMRP	.0000	IN.Y0
▽	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

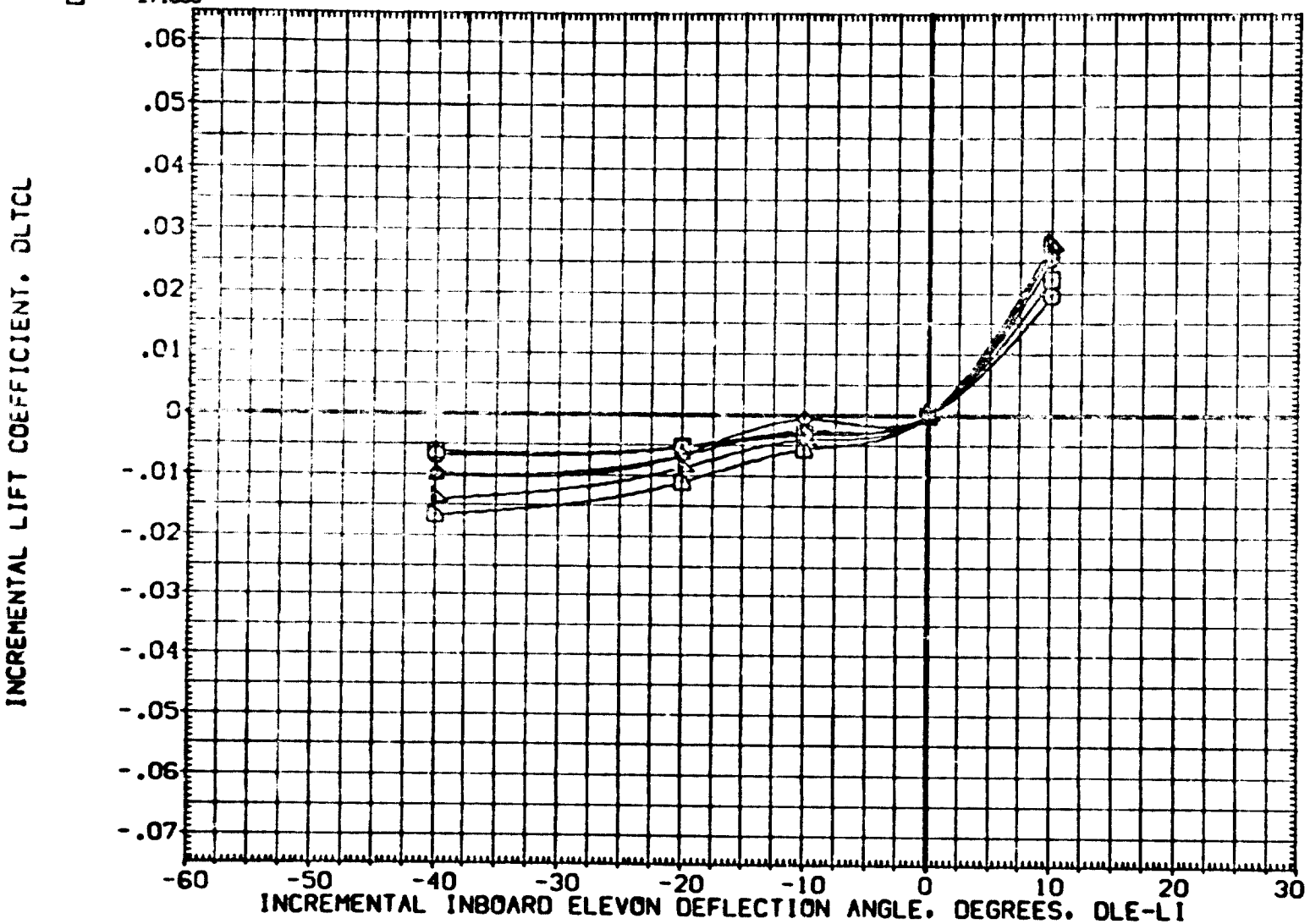


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

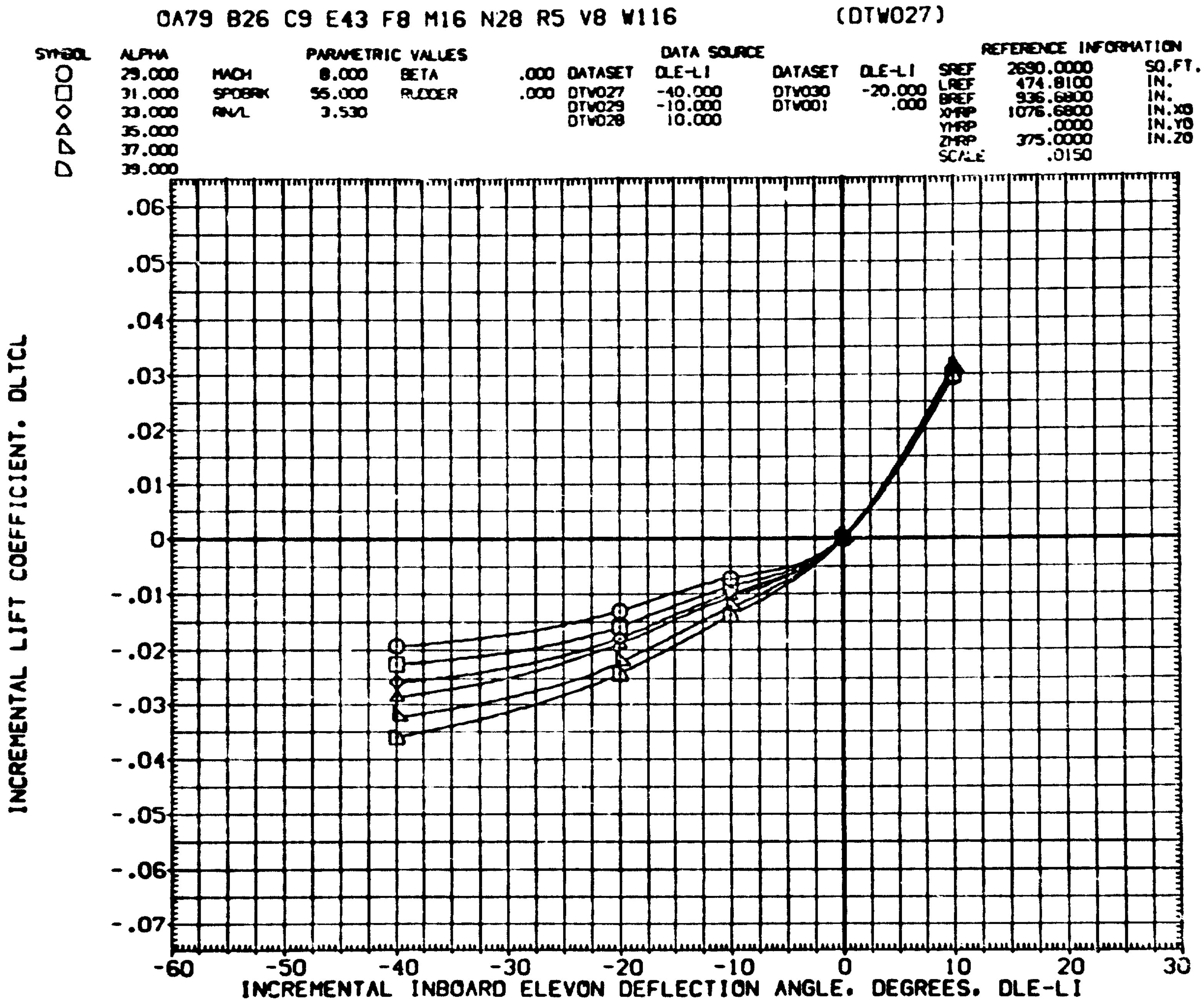


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000
◇	45.000	RNYL	3.530			DTW029	-10.000	DTW001	.000
						DTW028	10.000		

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

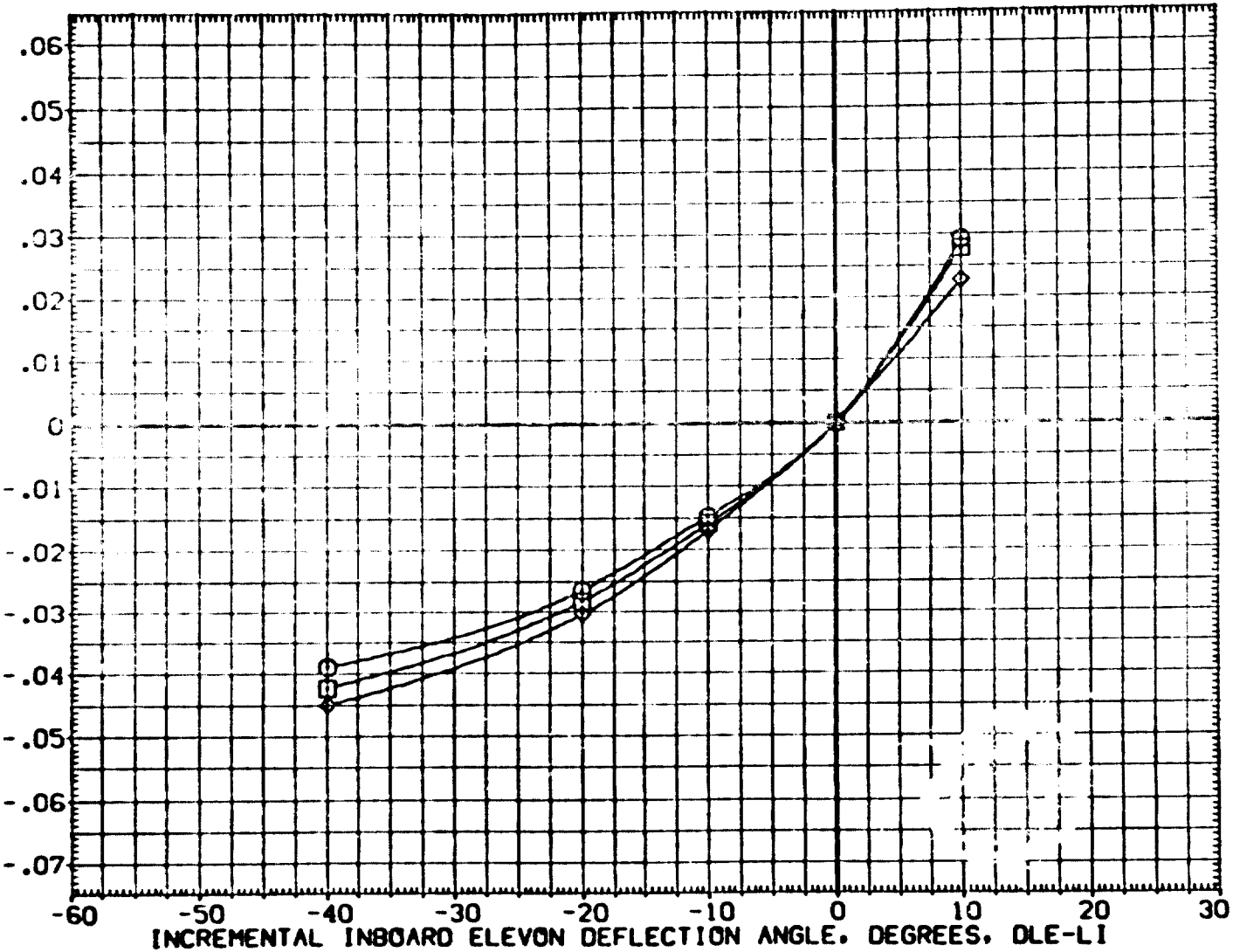


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

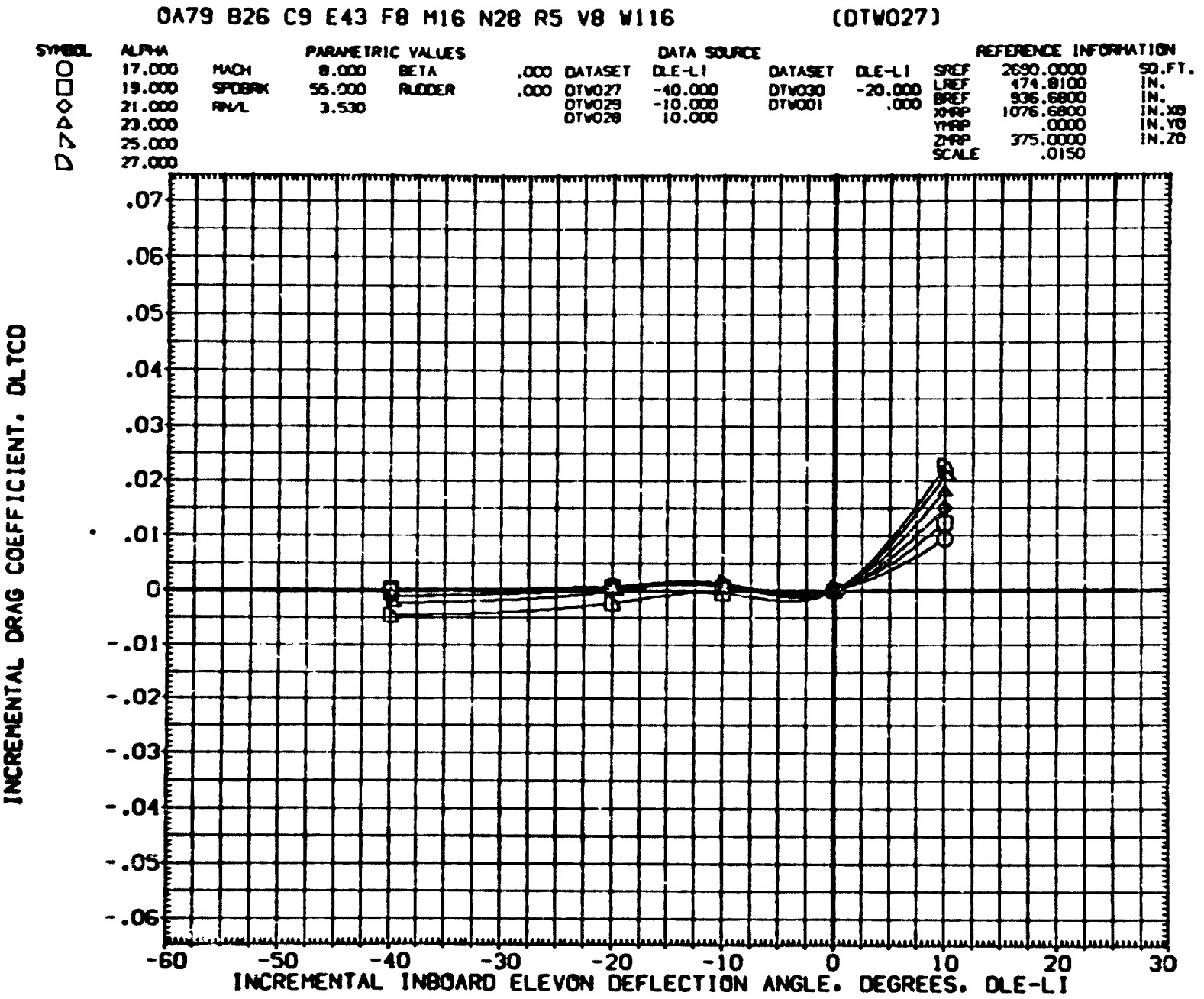


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	31.000	SPLBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	33.000	RMAC	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
△	35.000					DTW028	10.000			XMRP	1076.6800	IN.X0
▱	37.000									YMRP	.0000	IN.Y0
▱	39.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

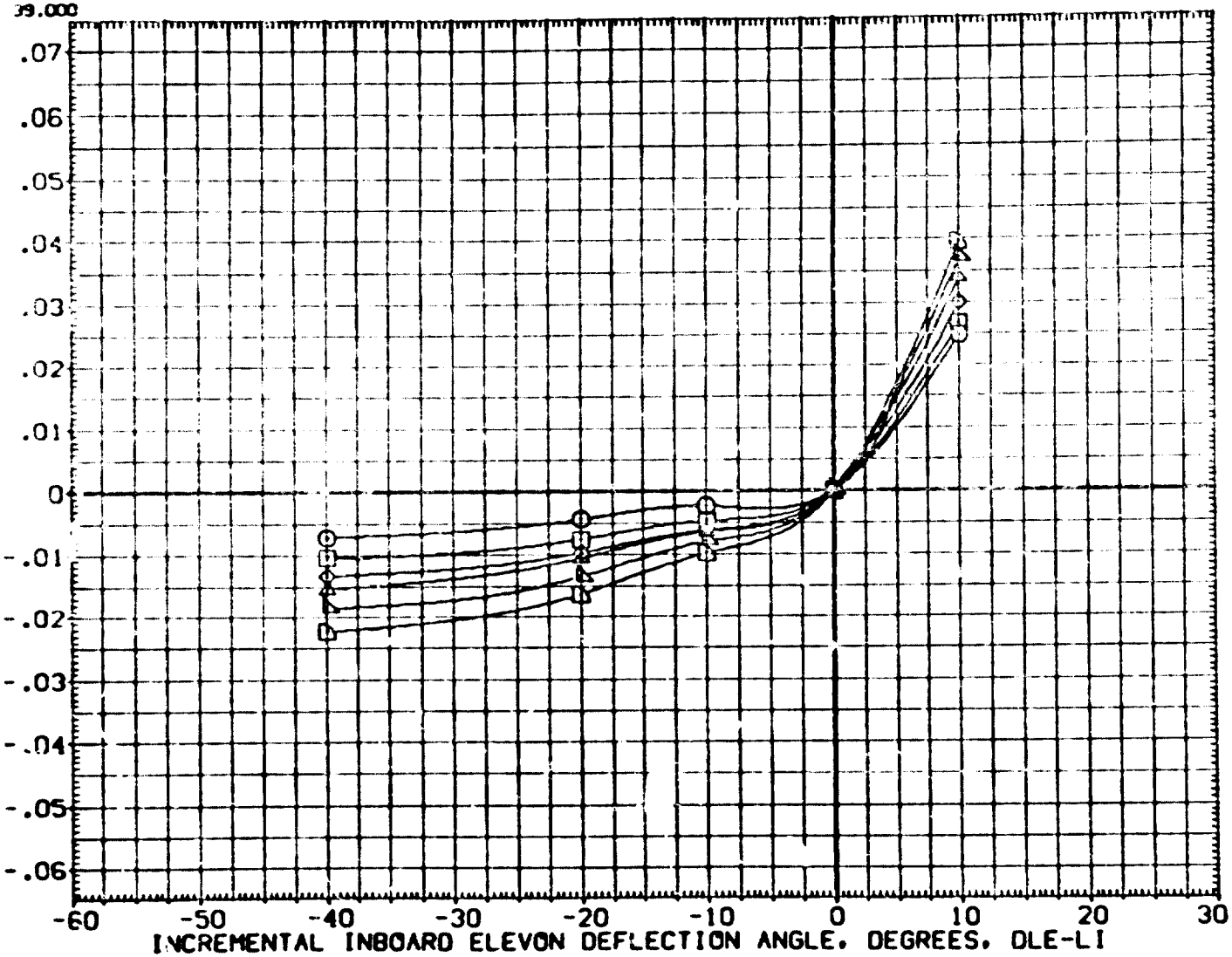


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW027)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW027	-40.000	DTW030	-20.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW029	-10.000	DTW001	.000	BREF	936.6800	IN.
						DTW028	10.000			XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

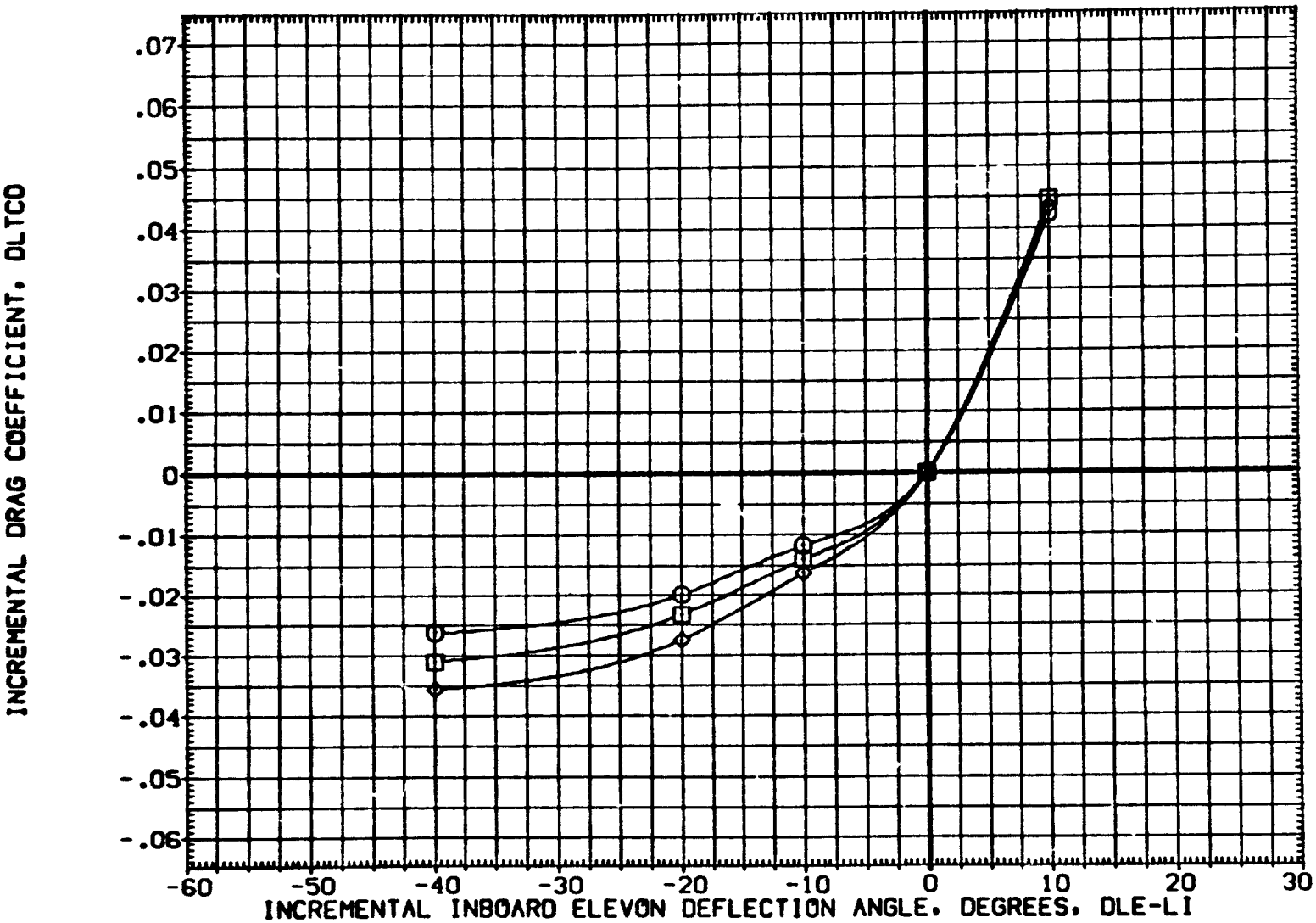


FIG. 12 INCREMENTAL EFFECTS OF INBOARD ONLY ELEVON DEFLECTIONS

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000
(CTV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

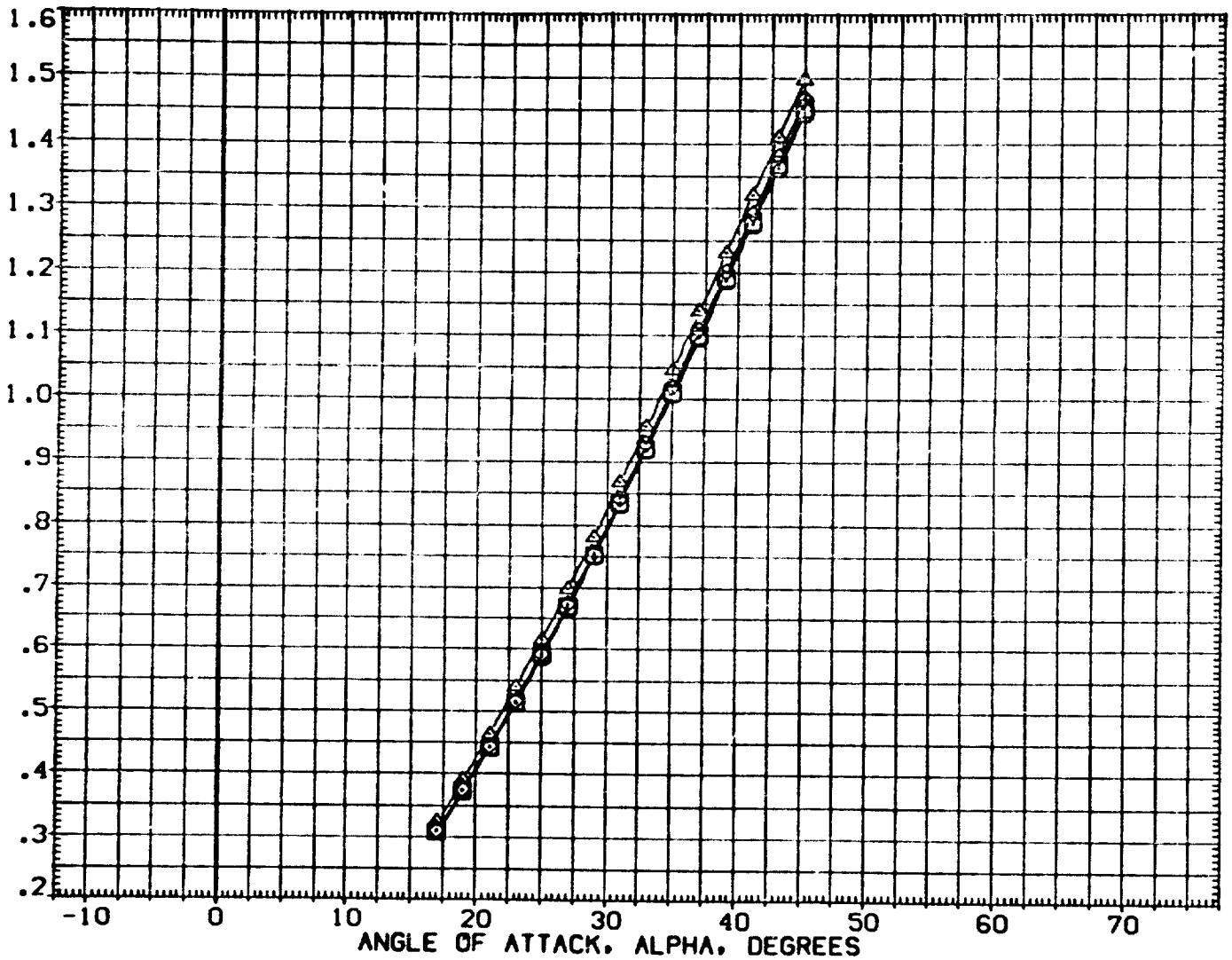


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV038)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000
(CTV034)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000
(CTV001)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV033)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

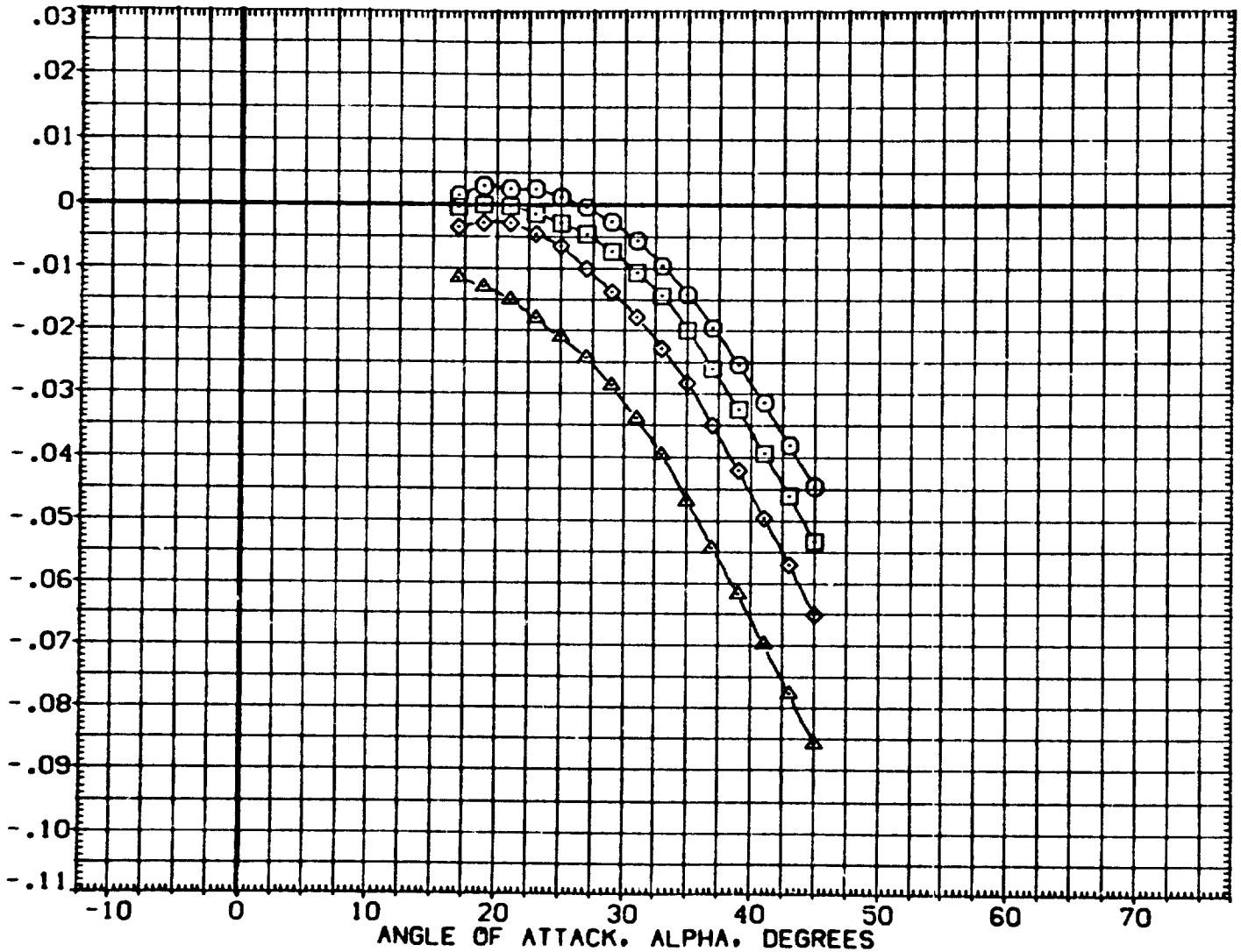


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

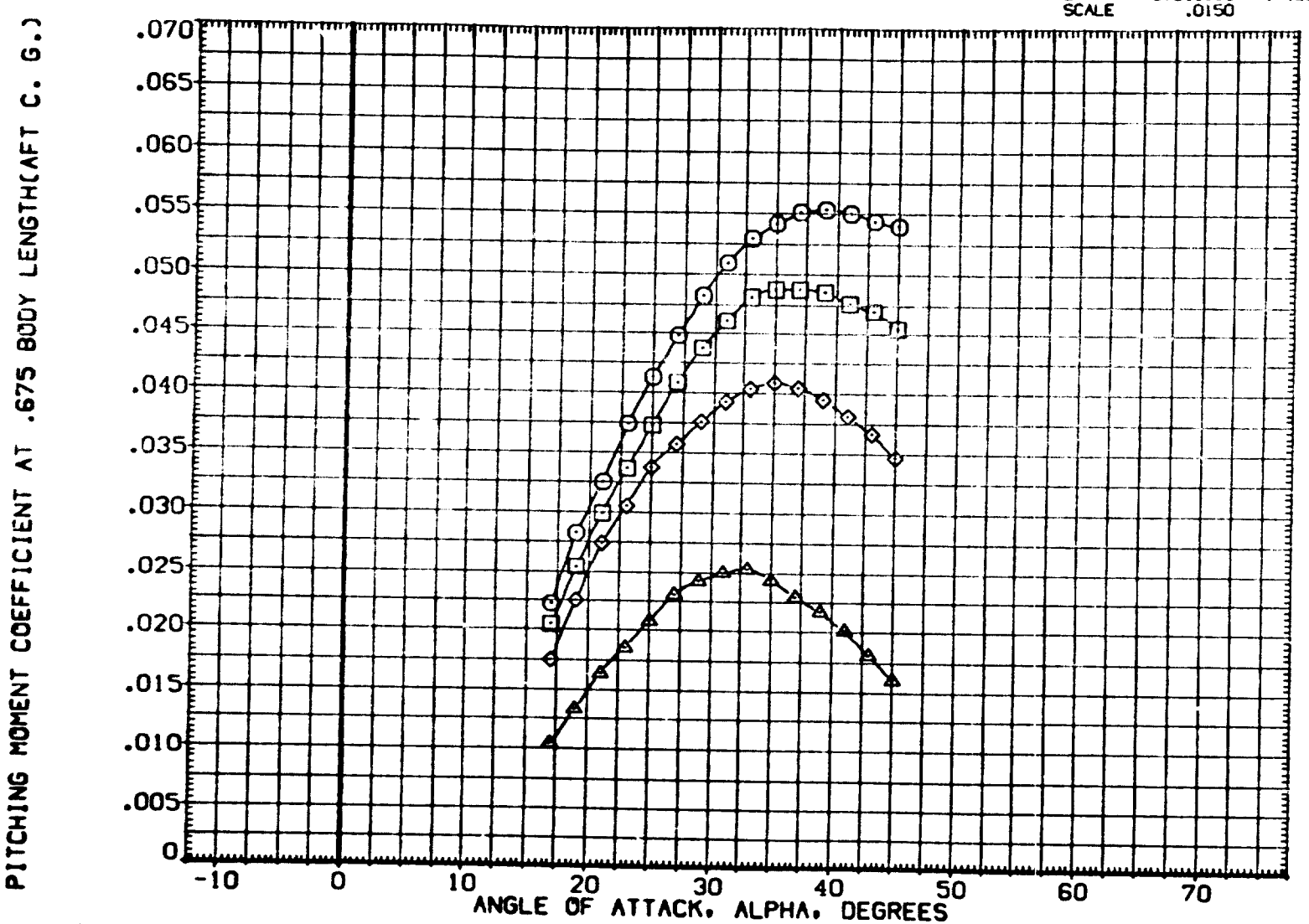


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000
(CTV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

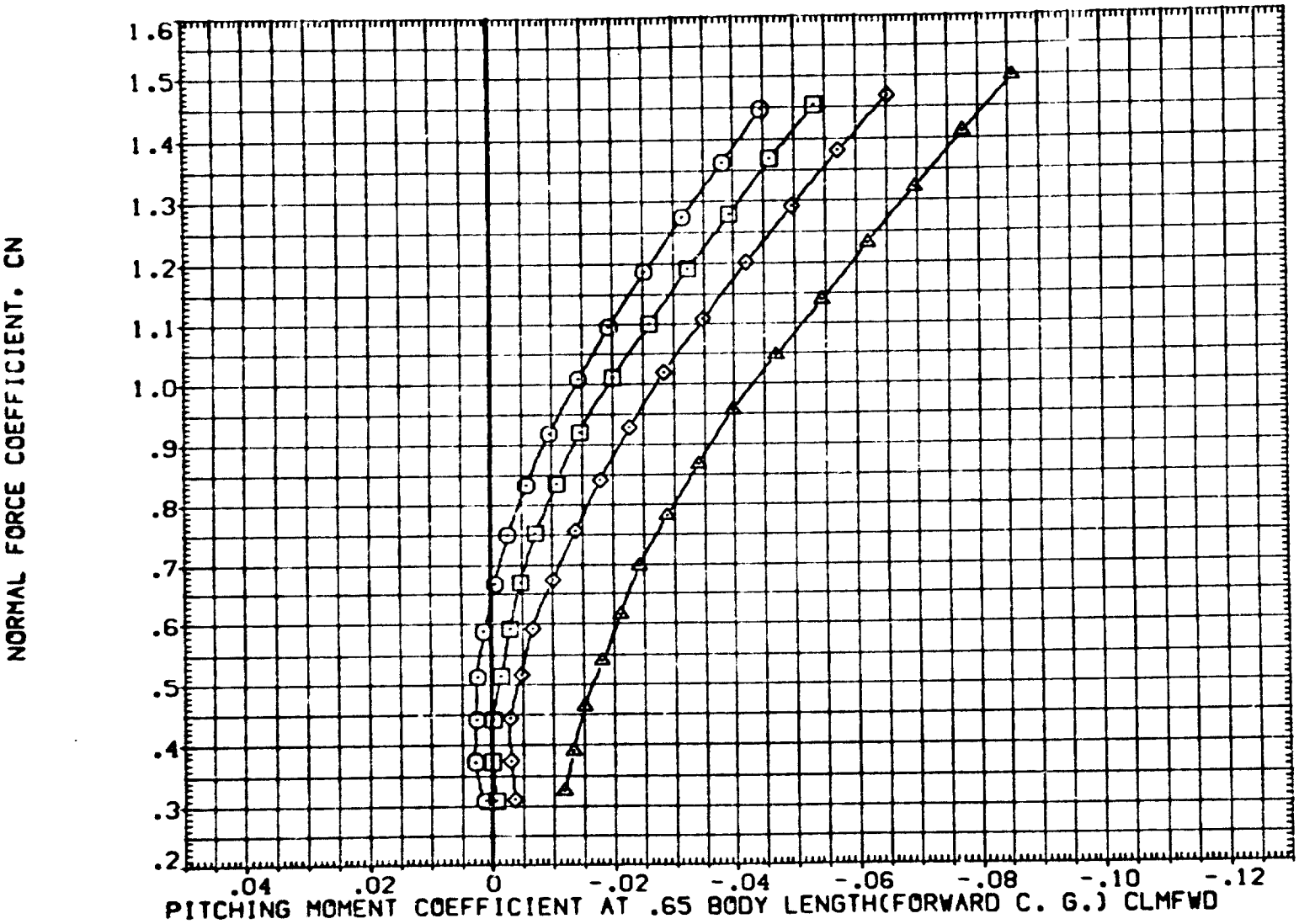


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV038)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV034)	□	OA79 B26 C9 E13 F8 M16 N28 R5 V8 V116
(CTV001)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV033)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6000	IN.
XMRP	1076.6900	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

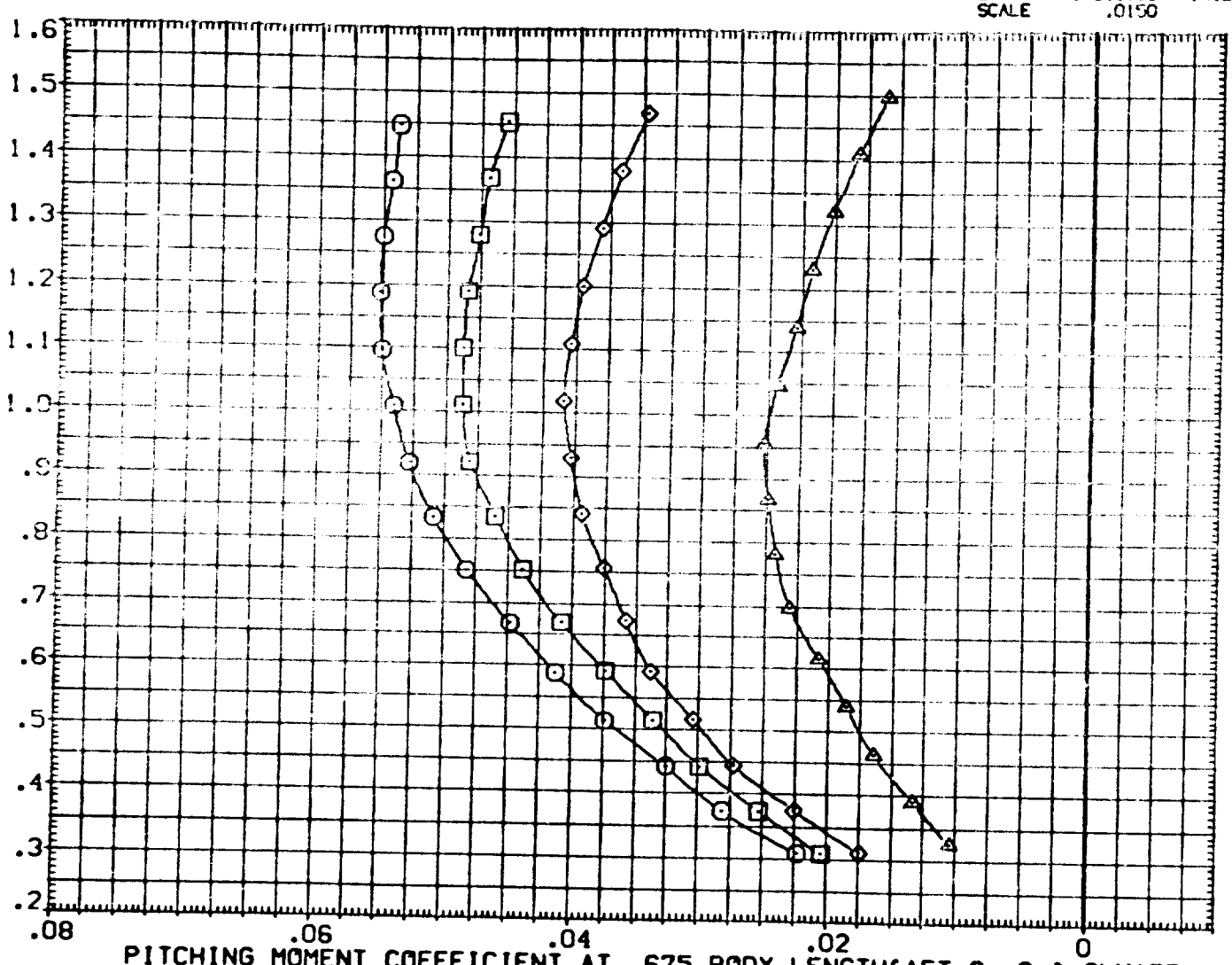


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV038)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	-20.000	.000	.000	-20.000
(CTV034)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	-10.000	.000	.000	-10.000
(CTV001)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	.000	.000	.000
(CTV039)	△	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

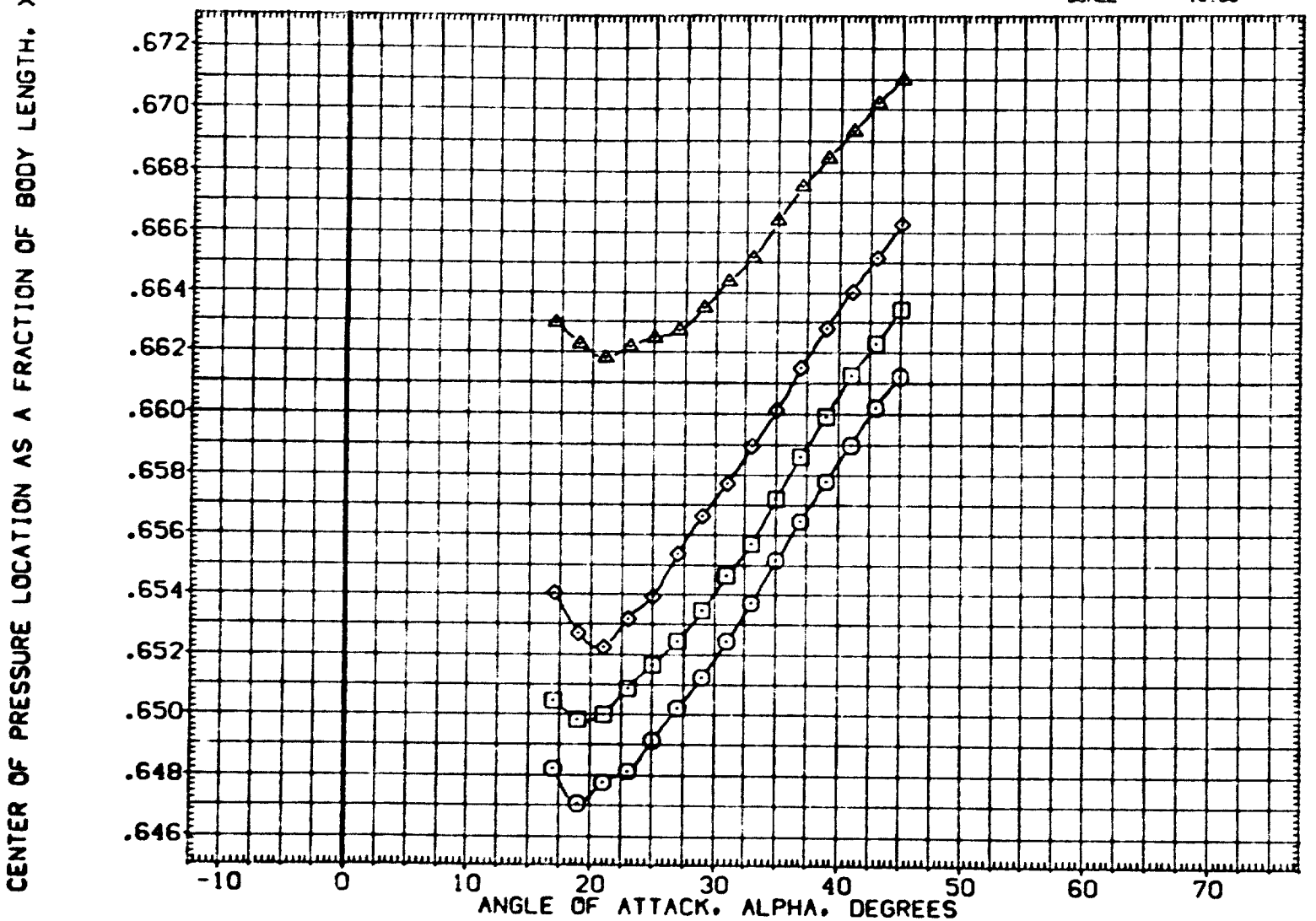


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000
(CTV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

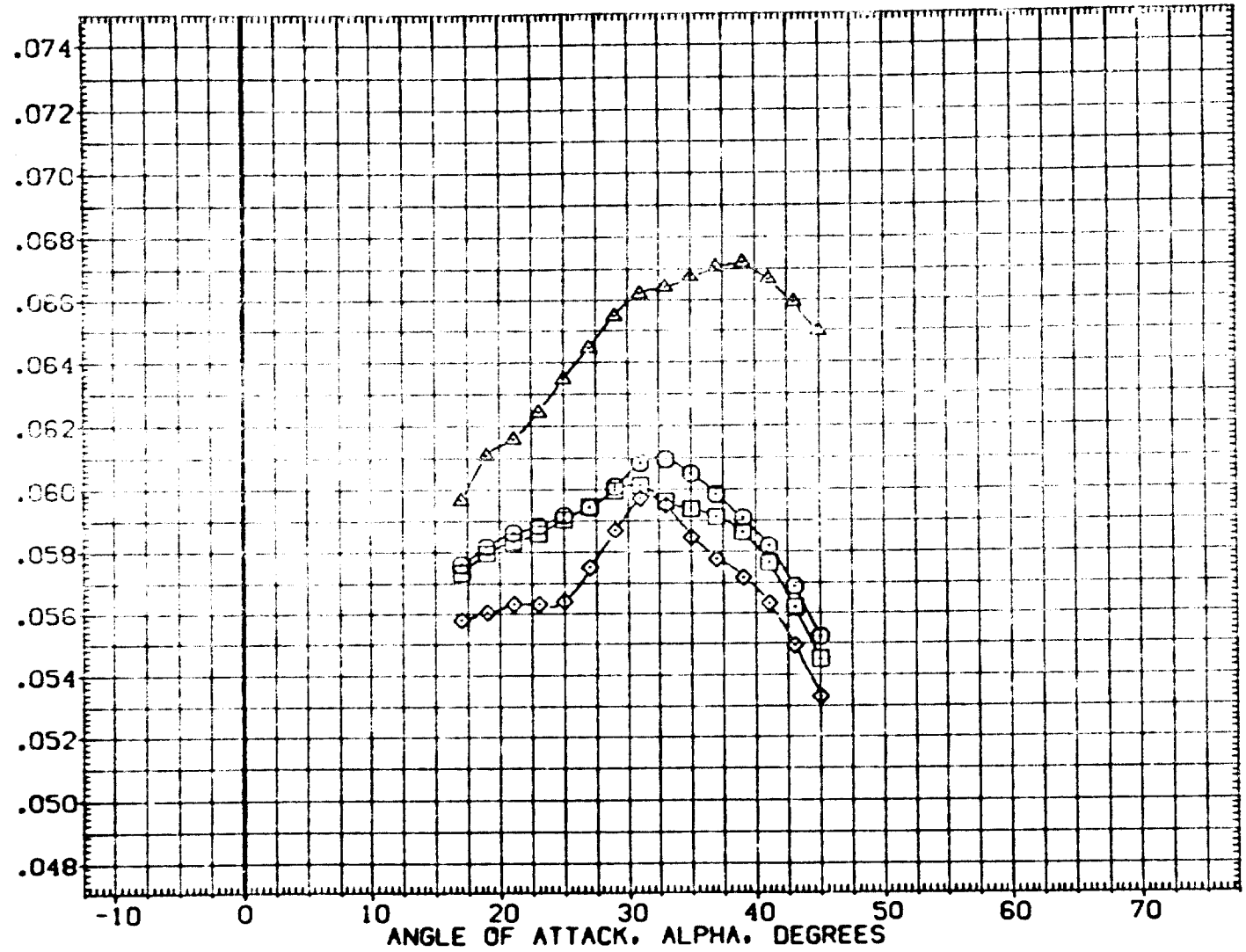


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

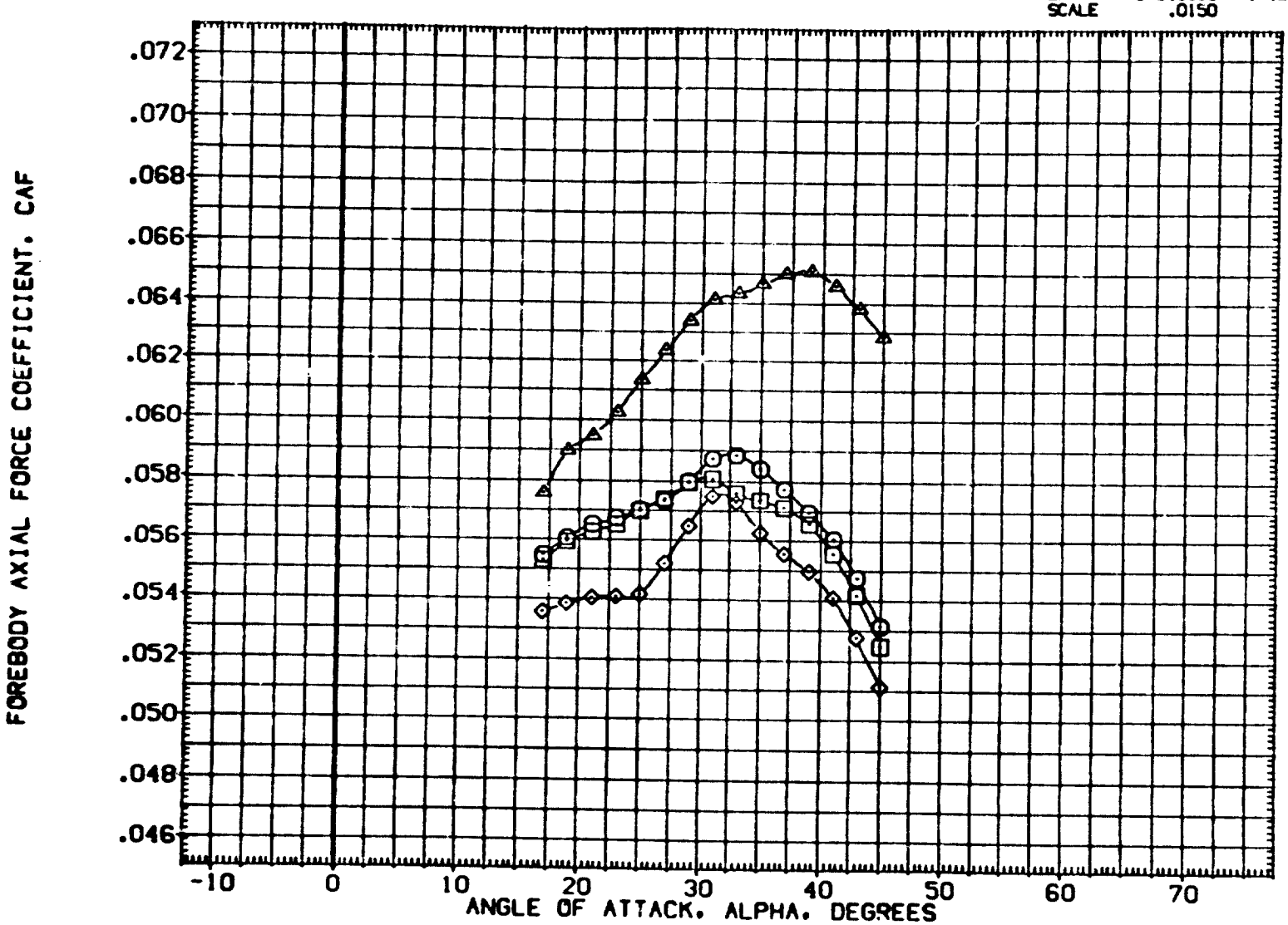


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CTV039) ○	0A79 B26 C9 E43 F8 M16 N29 R5 V8 V116	-20.000	.000	.000	-20.000
(CTV034) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000
(CTV001) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(CTV033) △	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

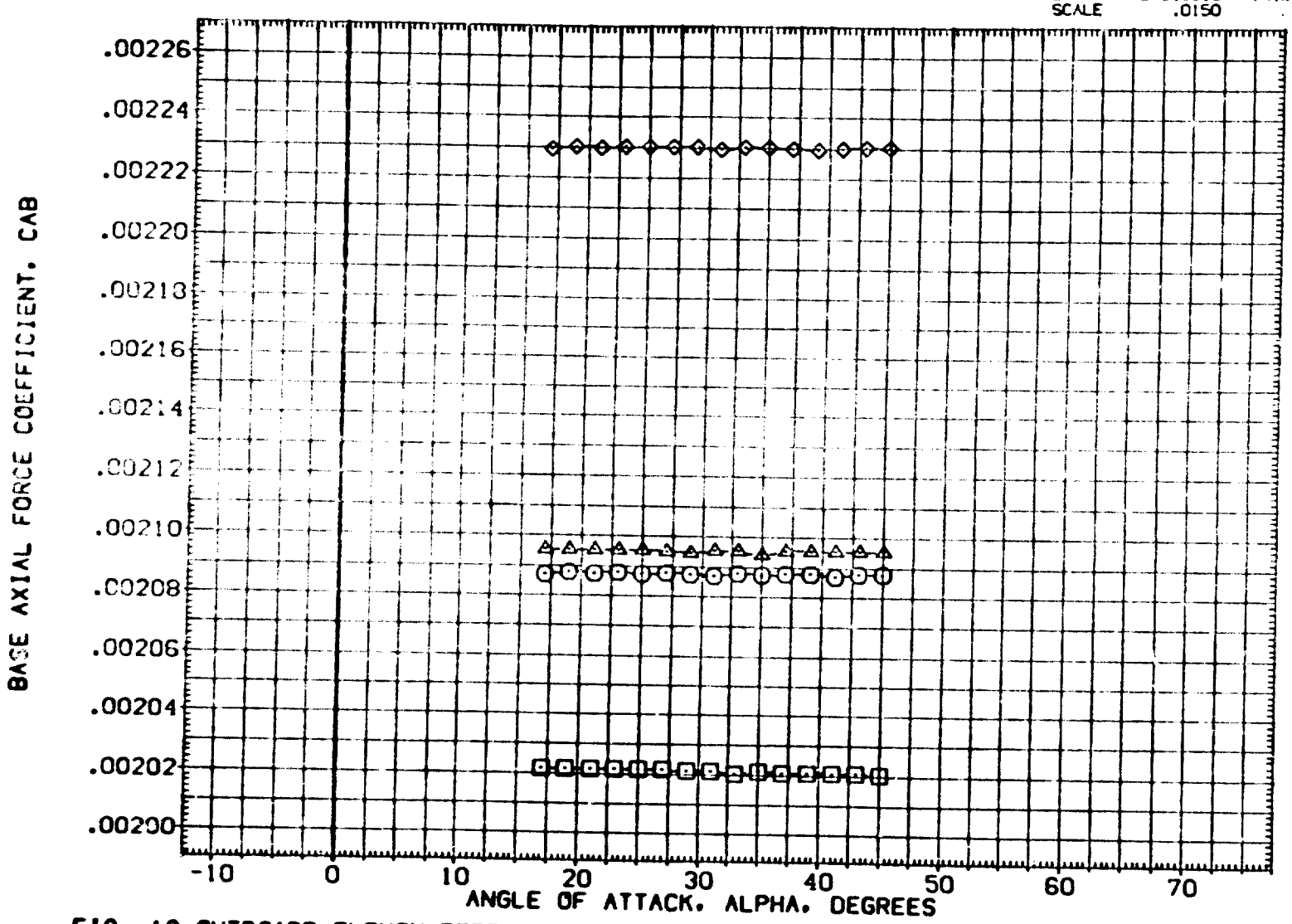


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV038)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV034)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV001)	⋈	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

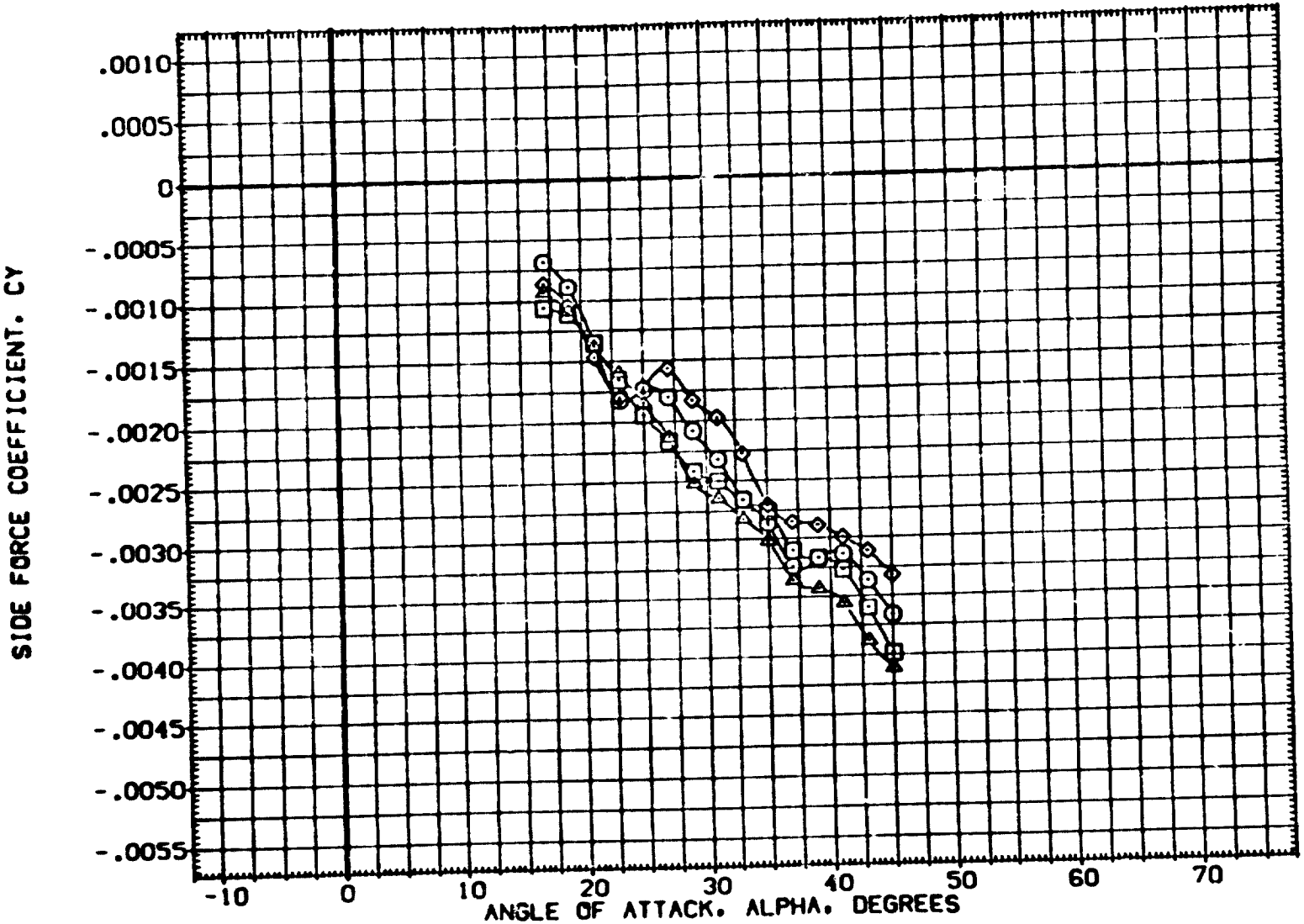


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV036)	○	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(ATV034)	□	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(ATV001)	⋈	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(ATV033)	△	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X9
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

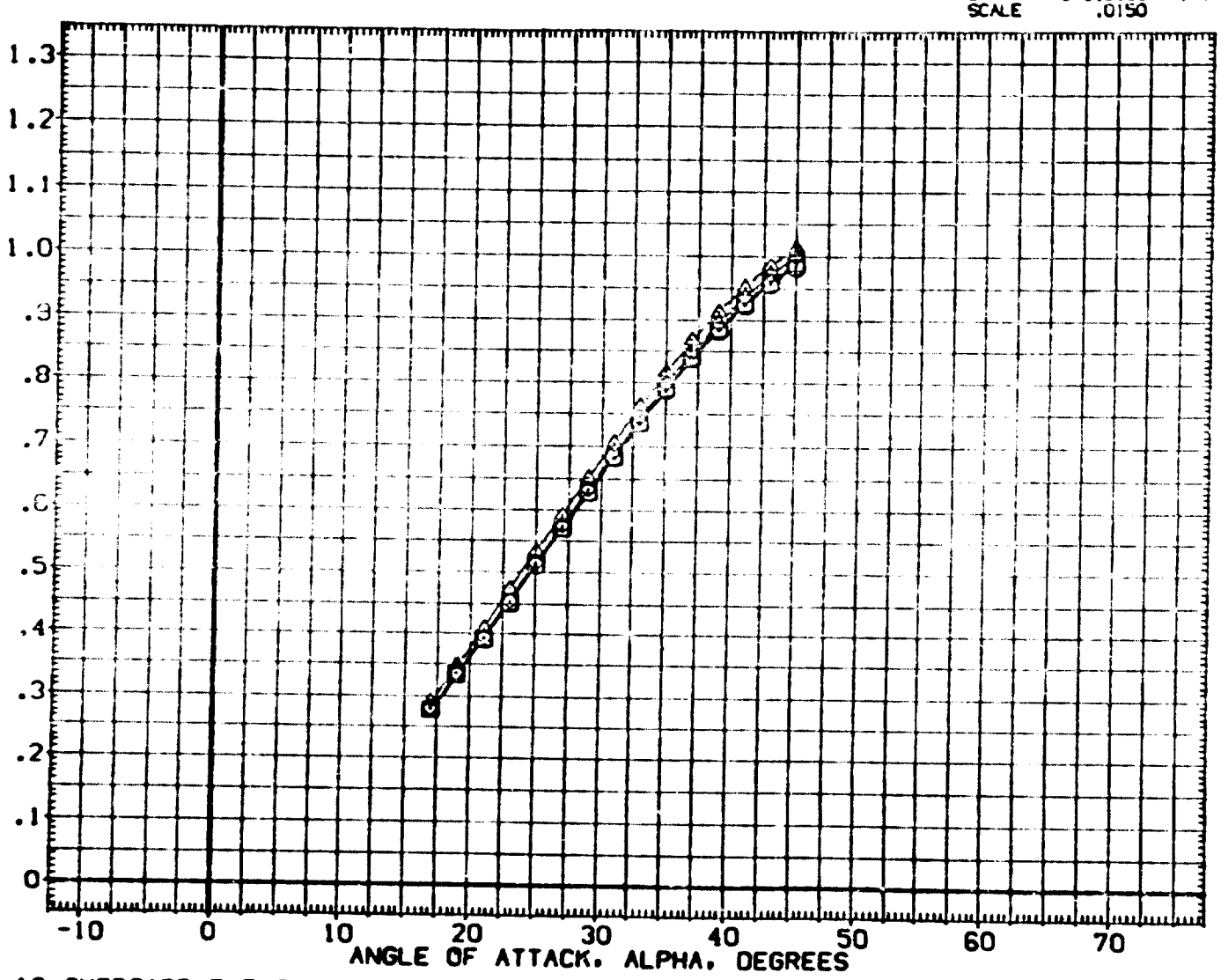


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-20.000	.000	.000	-20.000
(ATV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-10.000	.000	.000	-10.000
(ATV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.000	.000	.000
(ATV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	10.000	.005	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

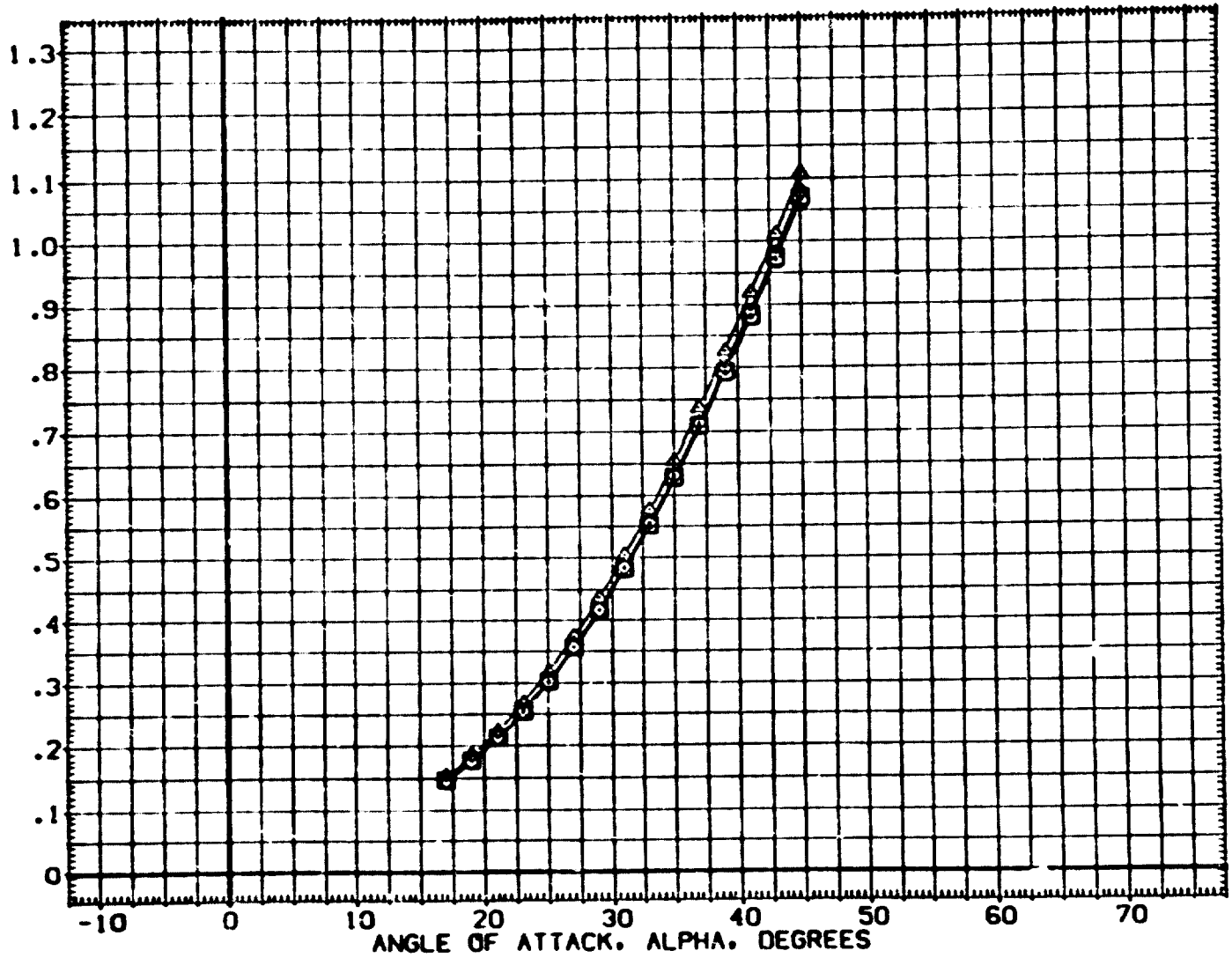


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW006)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATW034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATW001)	⋈	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATW033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

ELV-LO	ELV-LI	ELV-RI	ELV-RO
-20.000	.000	.000	-20.000
-10.000	.000	.000	-10.000
.000	.000	.000	.000
10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

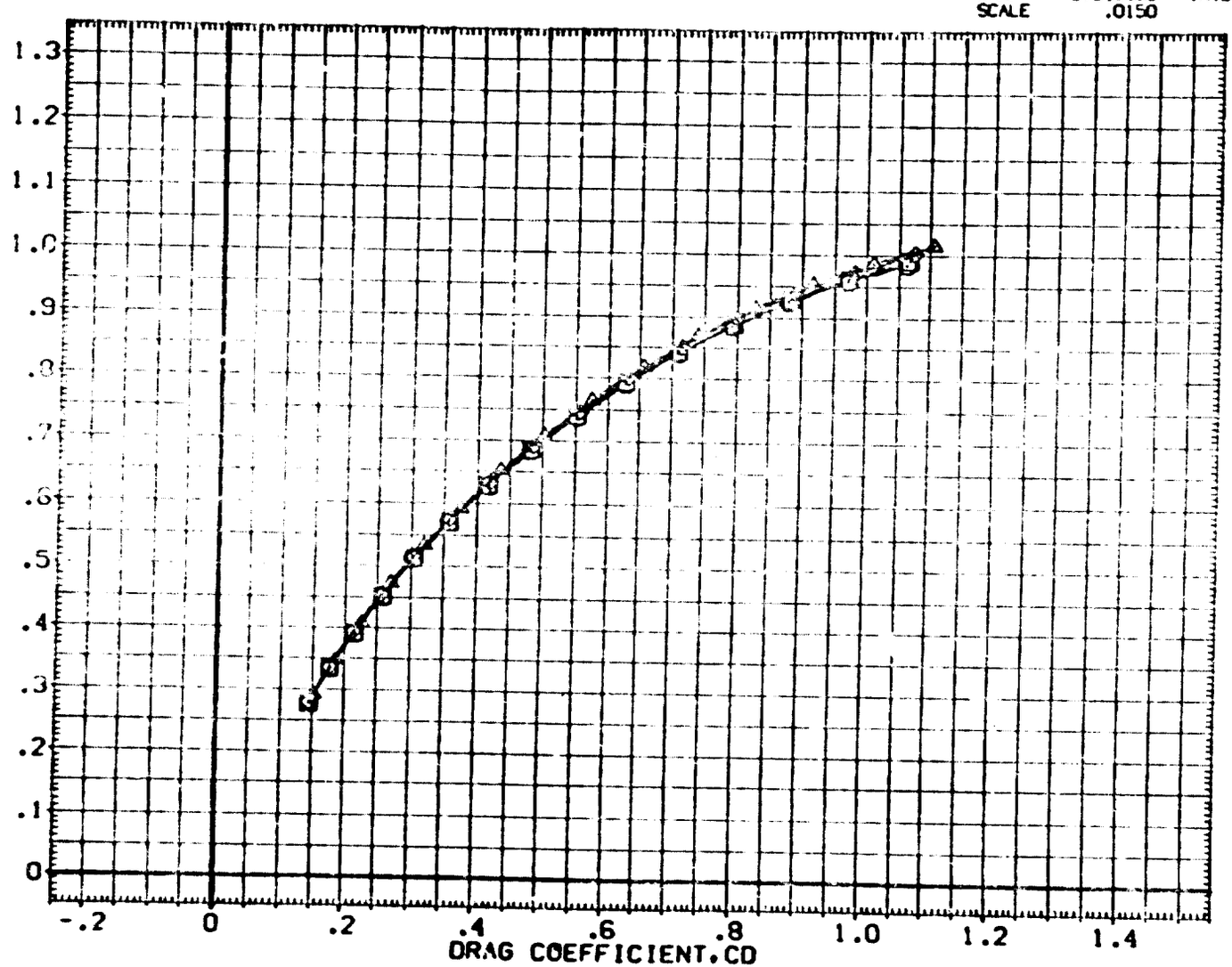


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(ATV038)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-20.000	.000	.000	-20.000
(ATV034)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-10.000	.000	.000	-10.000
(ATV001)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.000	.000	.000
(ATV033)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	10.000	.000	.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

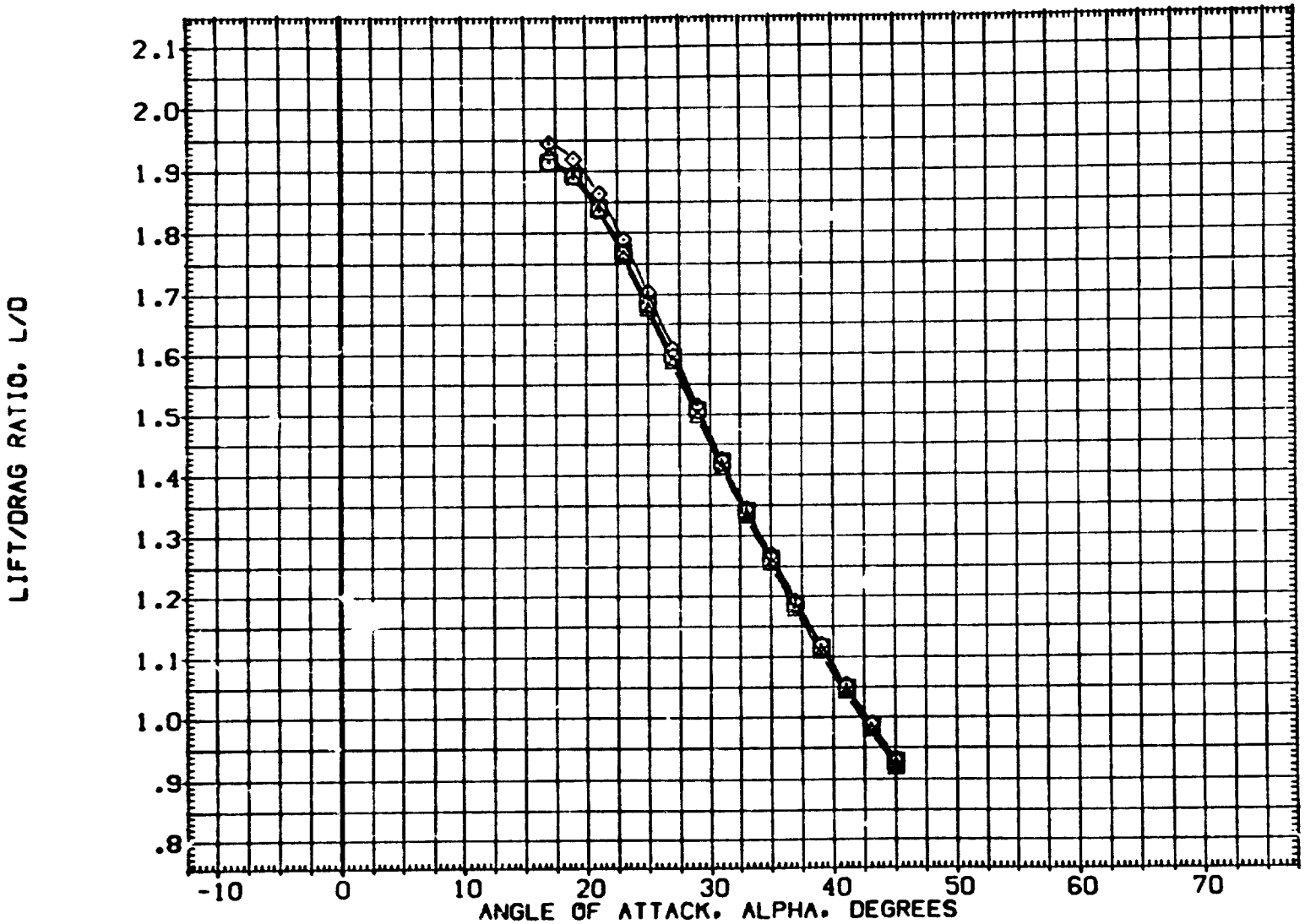


FIG. 13 OUTBOARD ELEVON EFFECTIVENESS WITH INBOARDS UNDEFLECTED

(A)MACH = 8.00

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	19.000	SPDBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.XB
▷	25.000									YMRP	.0000	IN.YB
▽	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

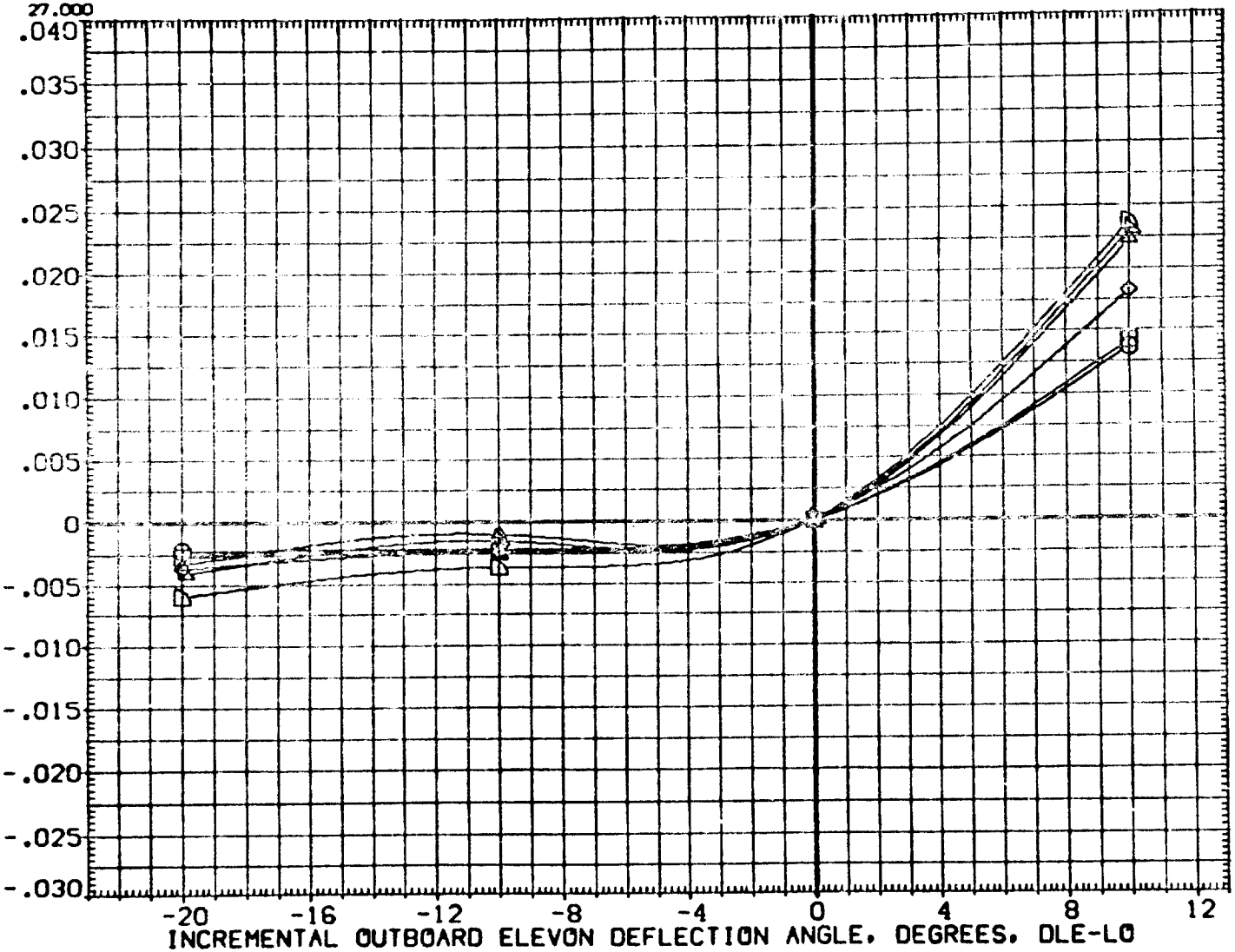


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

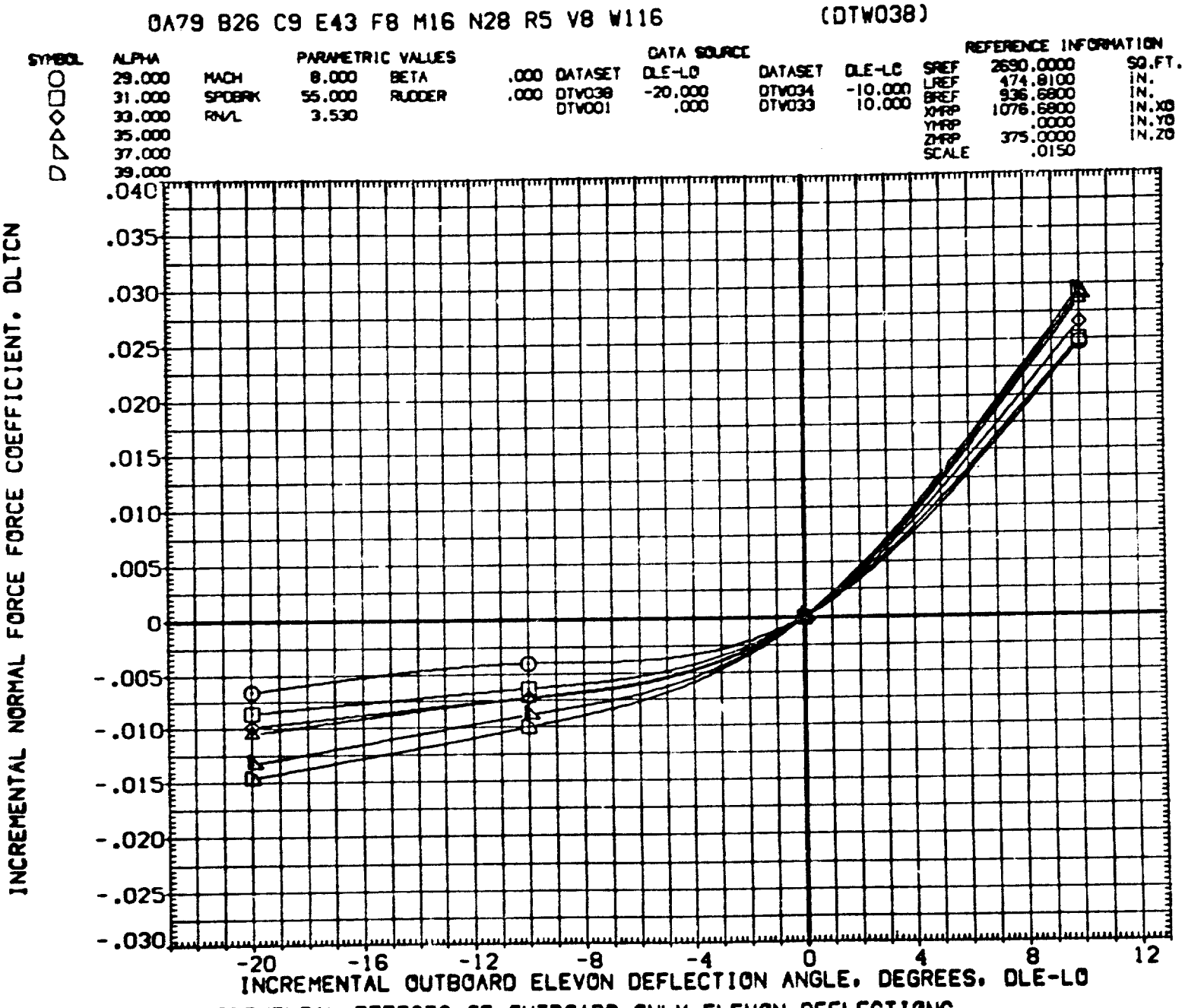


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

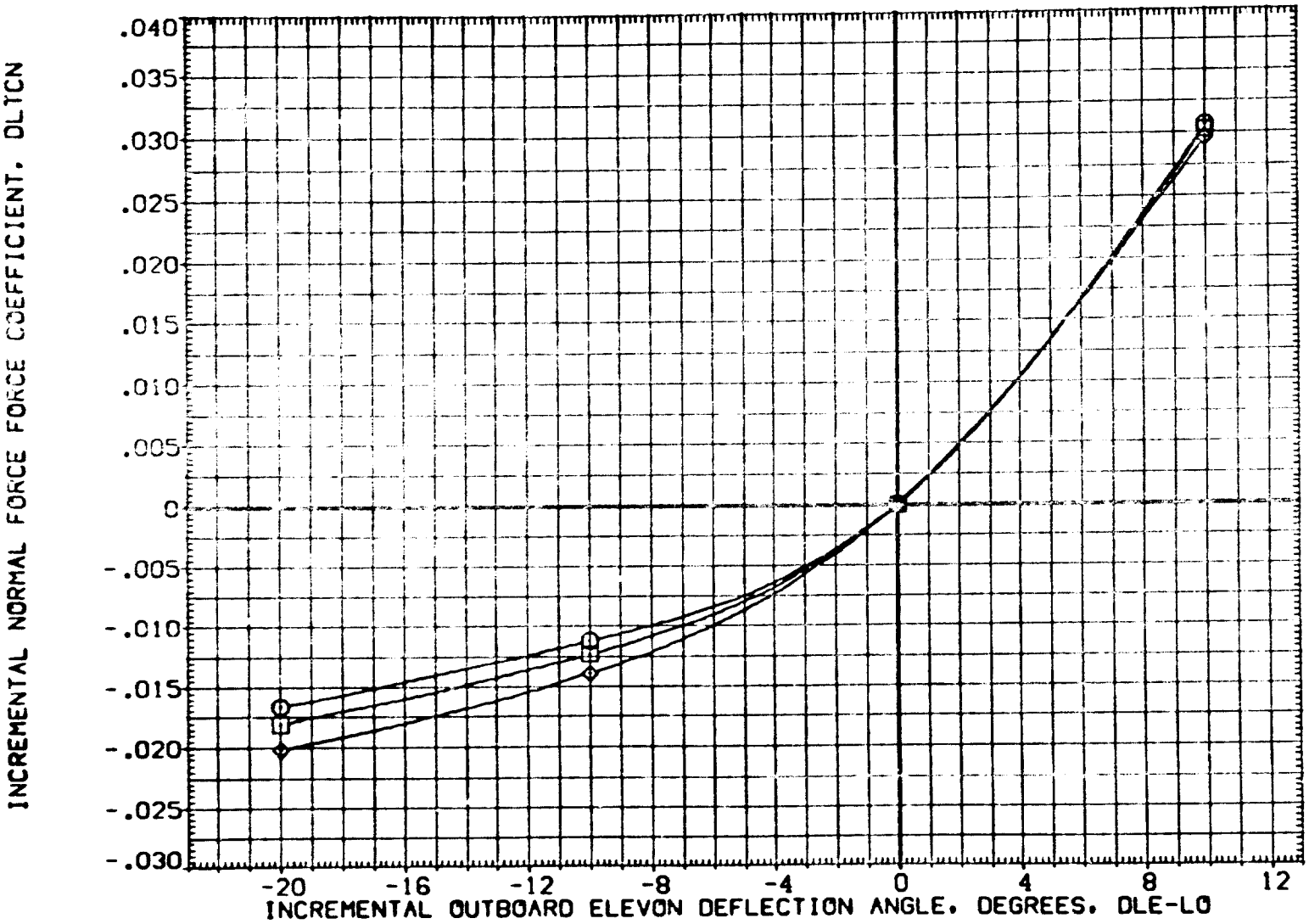


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

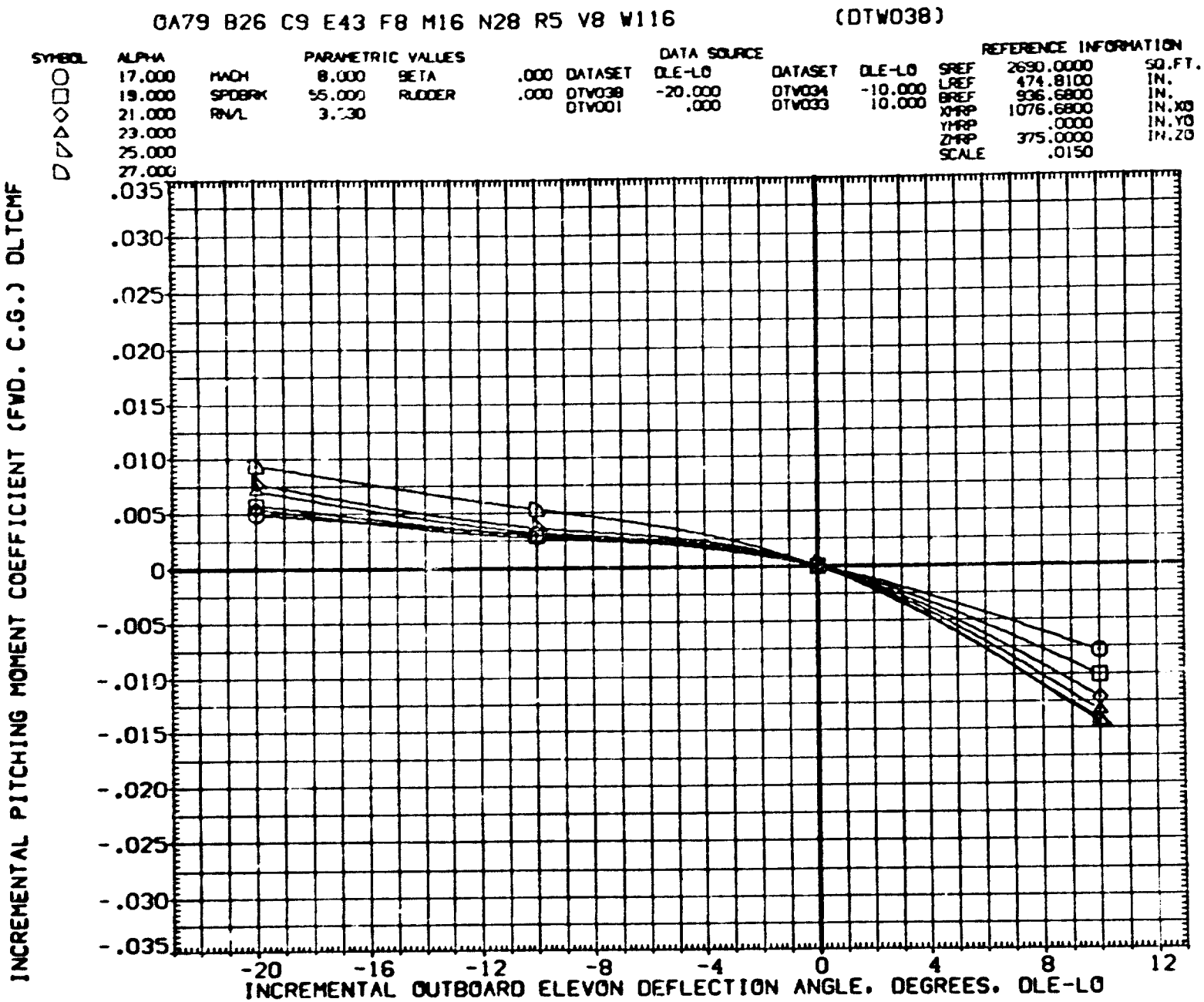


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	31.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	33.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.XO
▽	37.000									YMRP	.0000	IN.YO
◁	39.000									ZMRP	375.0000	IN.ZO
										SCALE	.0150	

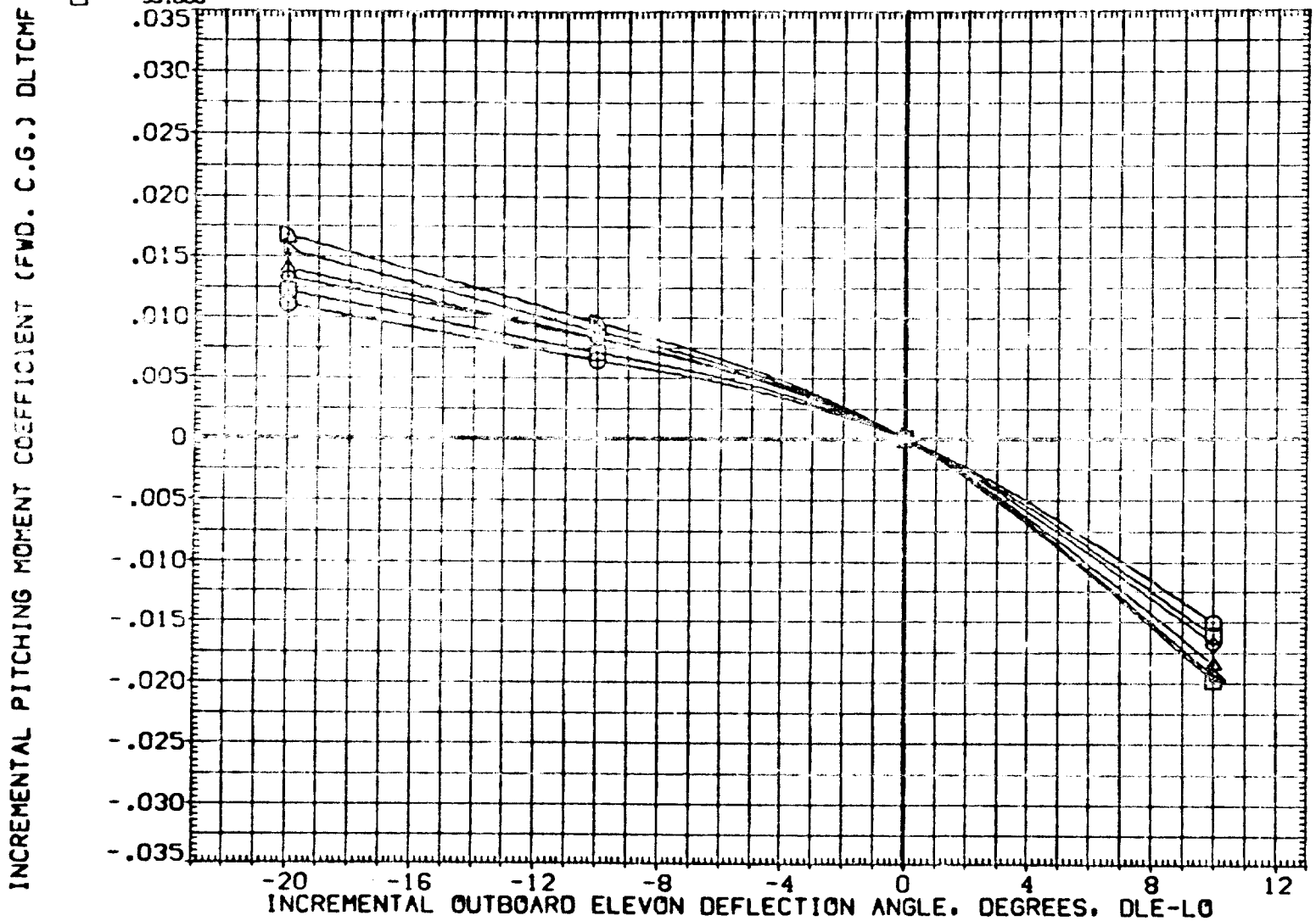


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RNVL	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

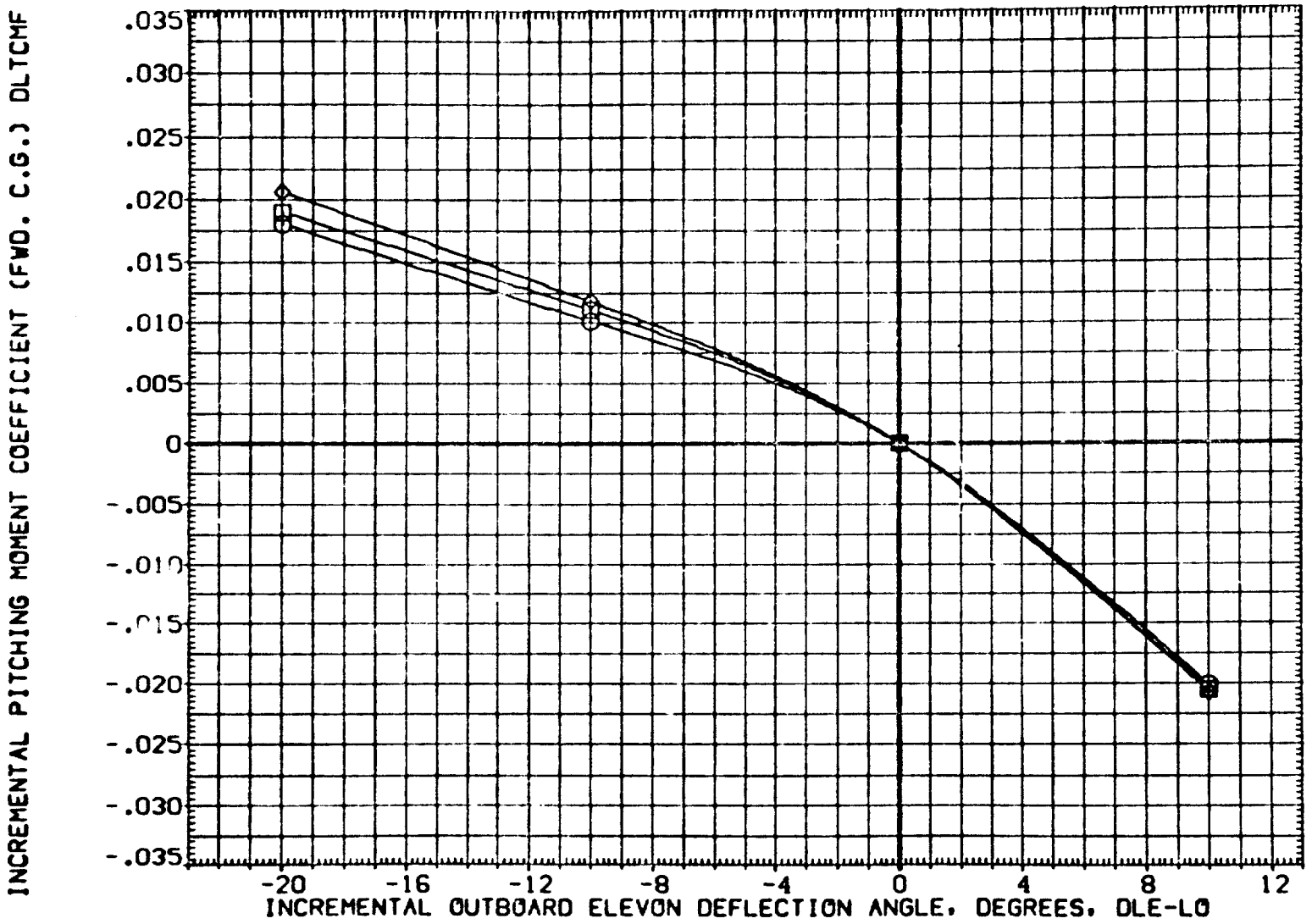


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	19.000	SPOILRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	23.000									XMRP	1076.6600	IN.XO
▽	25.000									YMRP	.0000	IN.YO
▷	27.000									ZMRP	375.0000	IN.ZO
										SCALE	.0150	

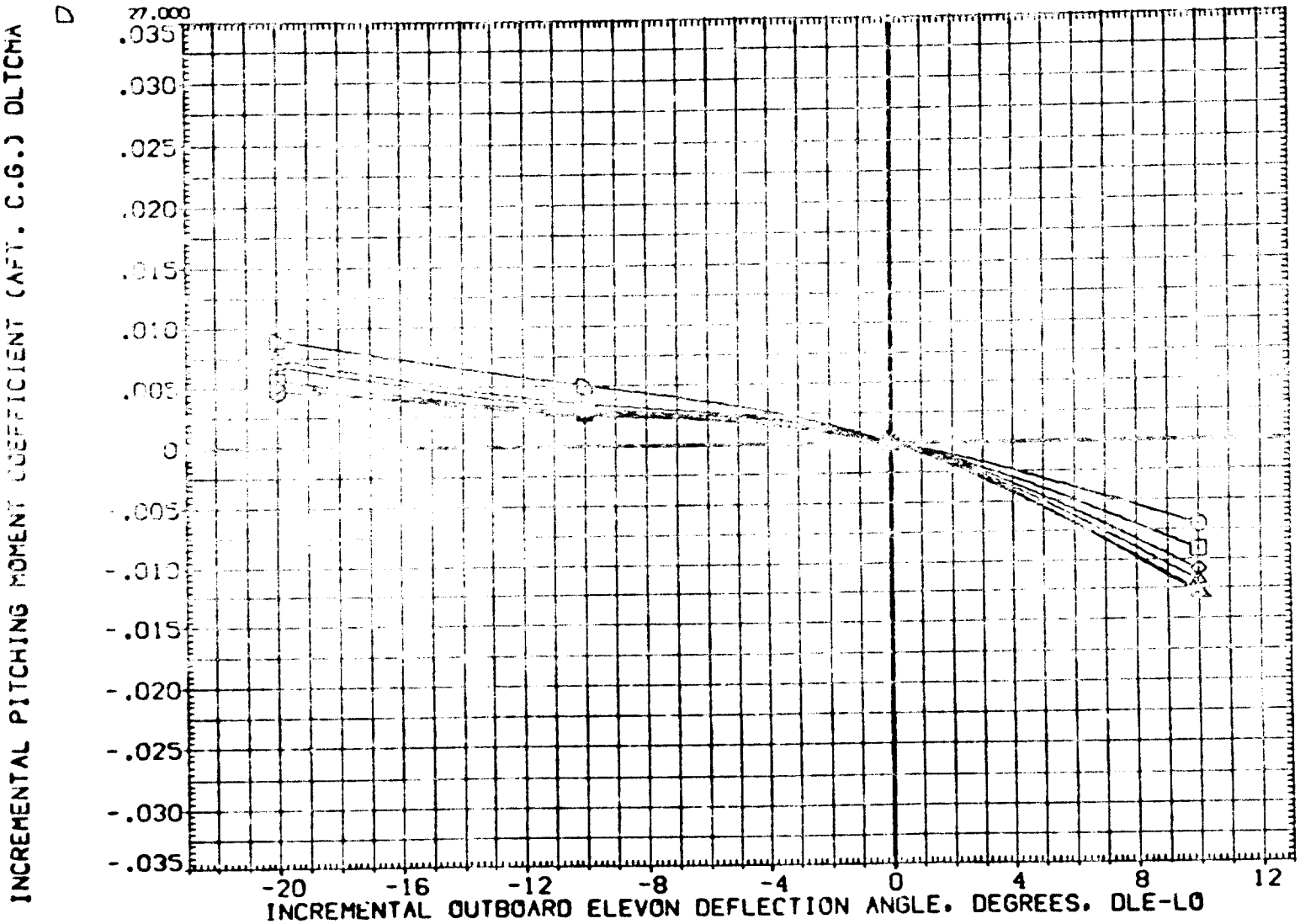


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

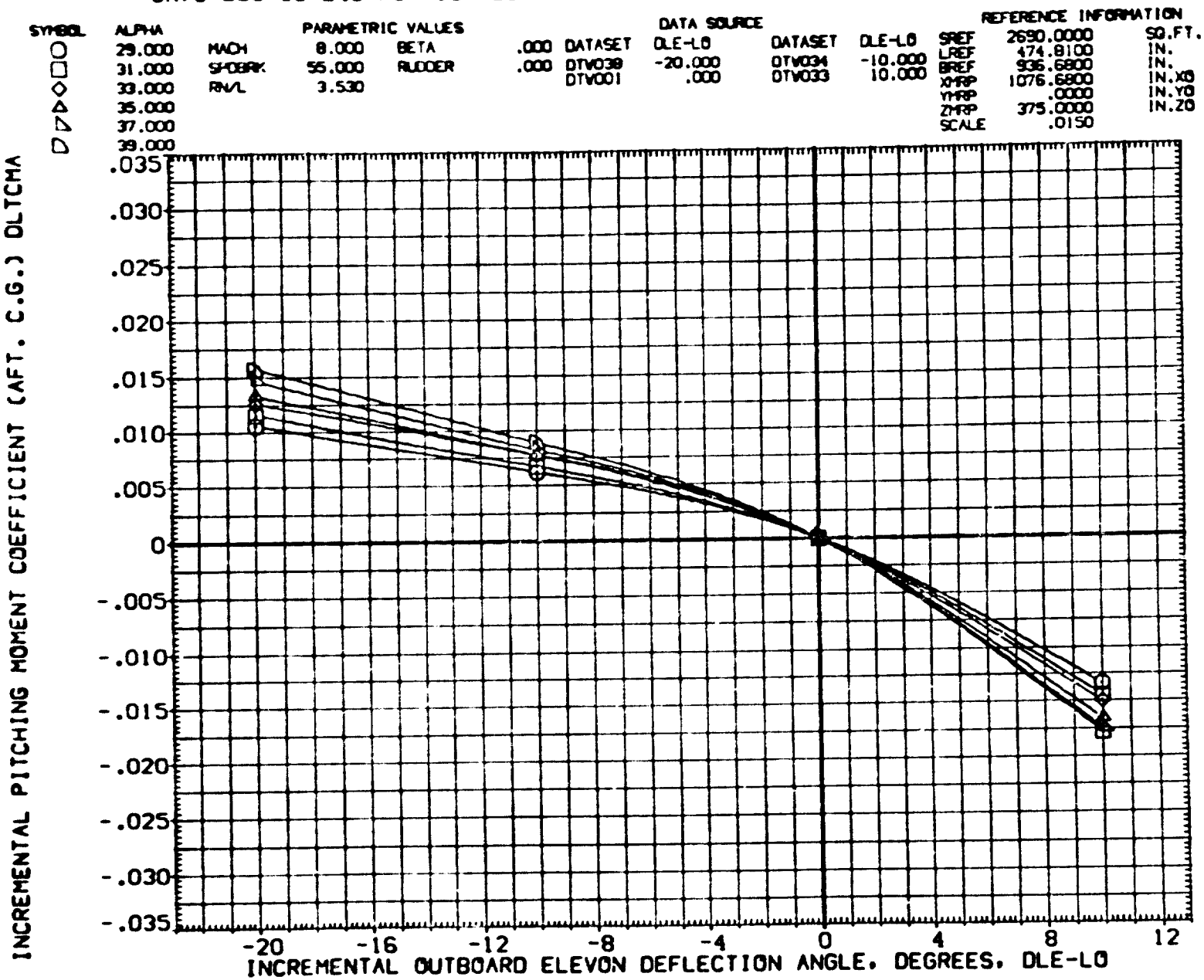


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	DETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

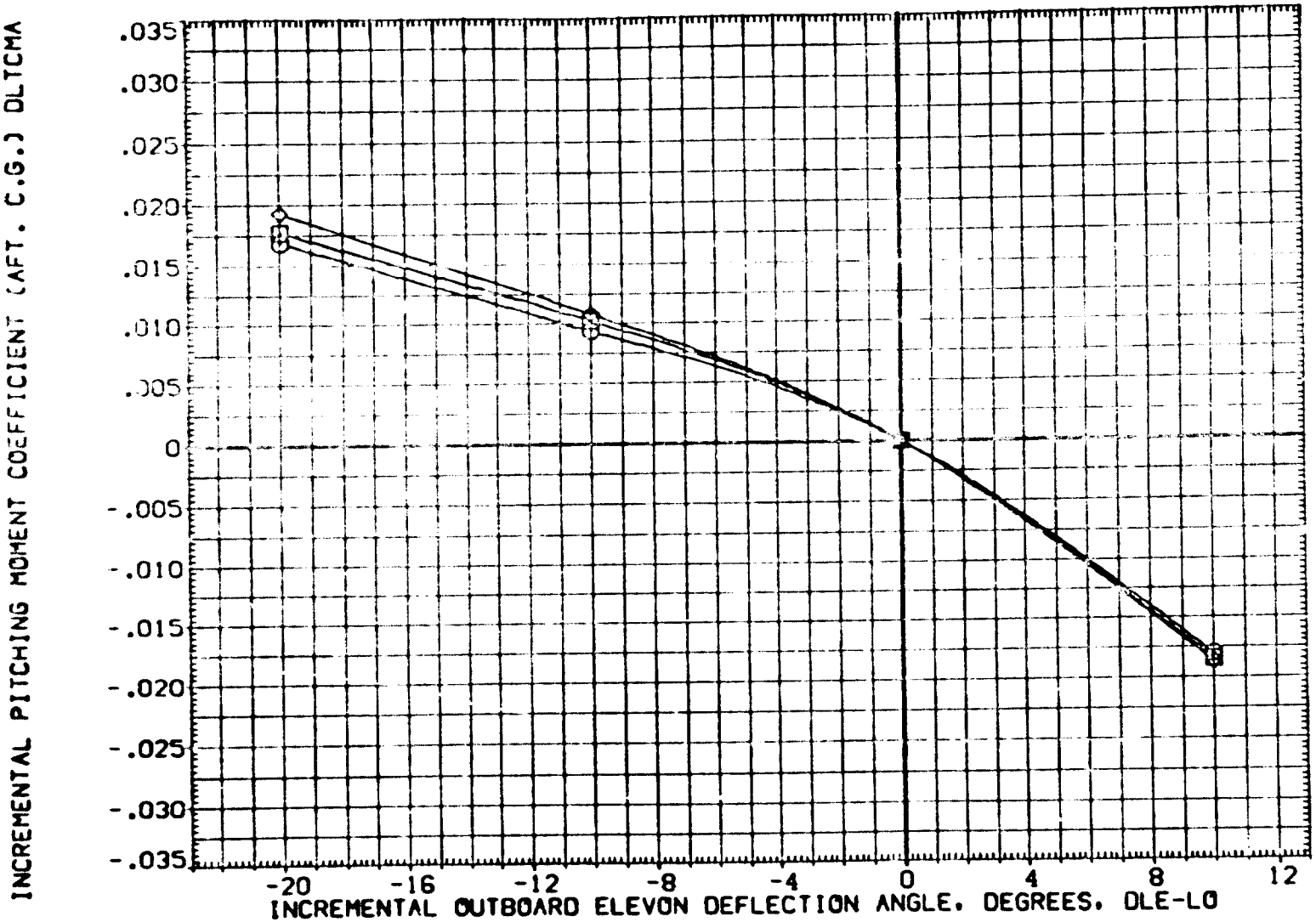


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

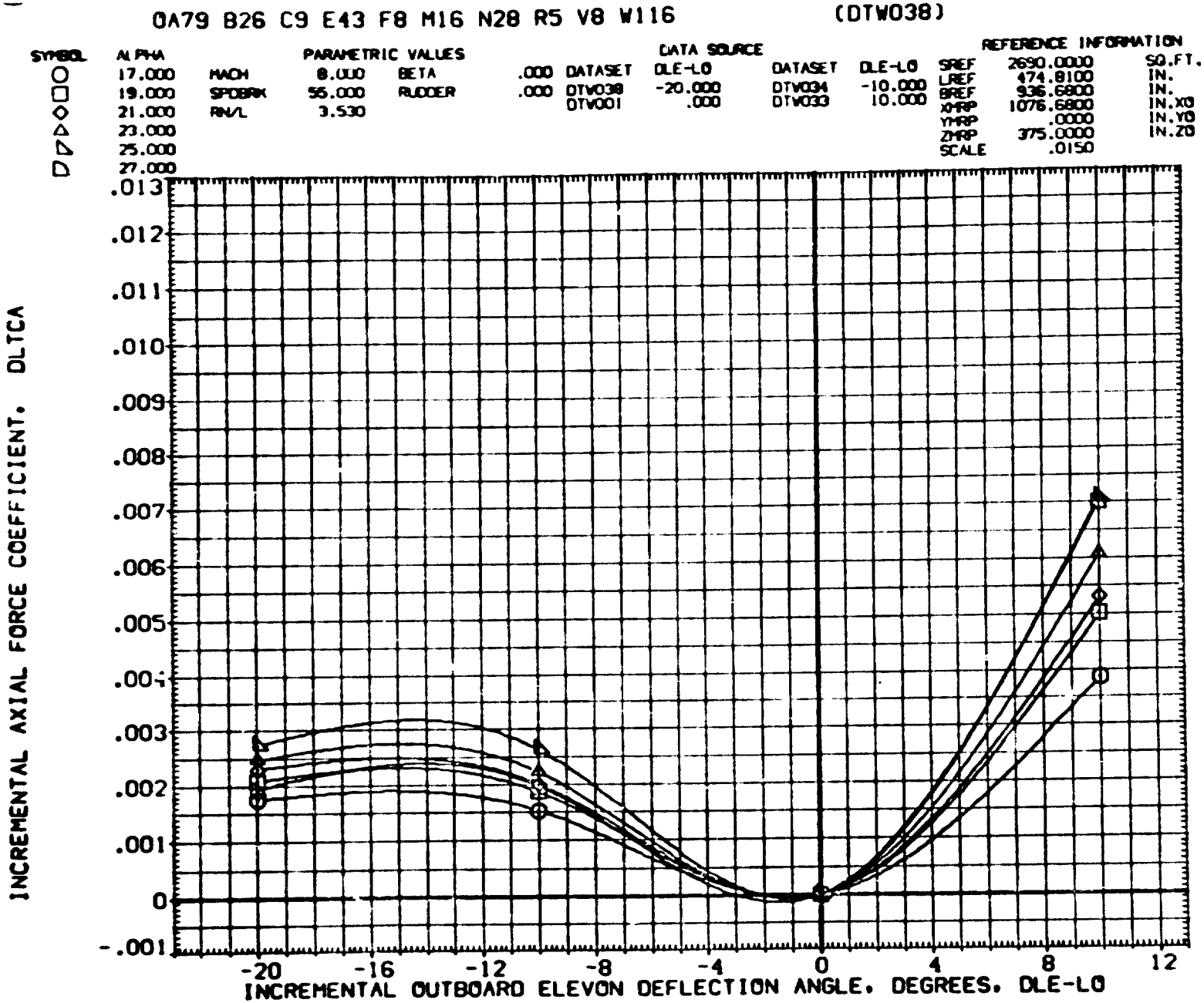


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	31.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	33.000	RN/L	3.530			DTW0C:	.000	DTW033	10.000	BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.X0
▽	37.000									YMRP	.0000	IN.Y0
▷	39.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

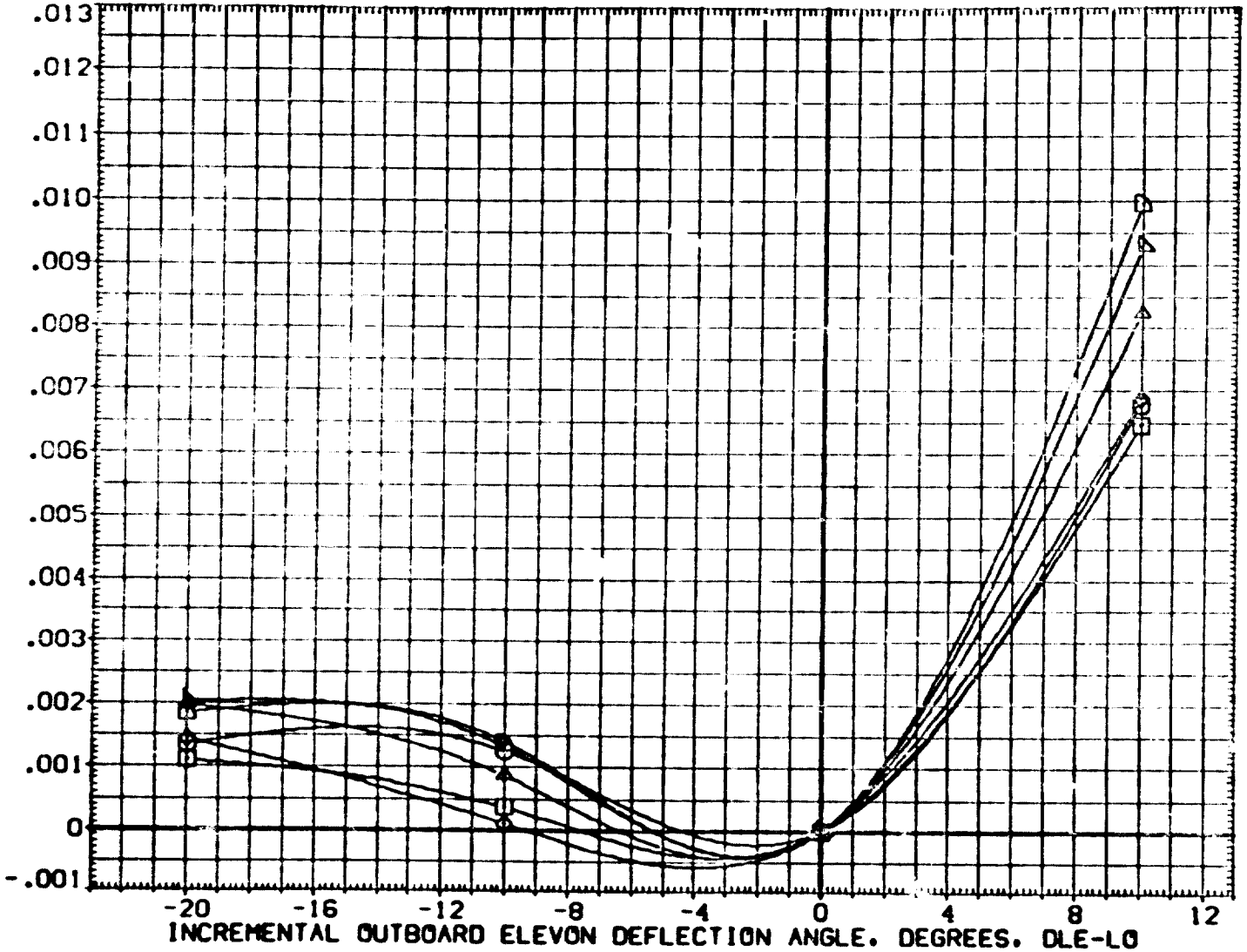


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

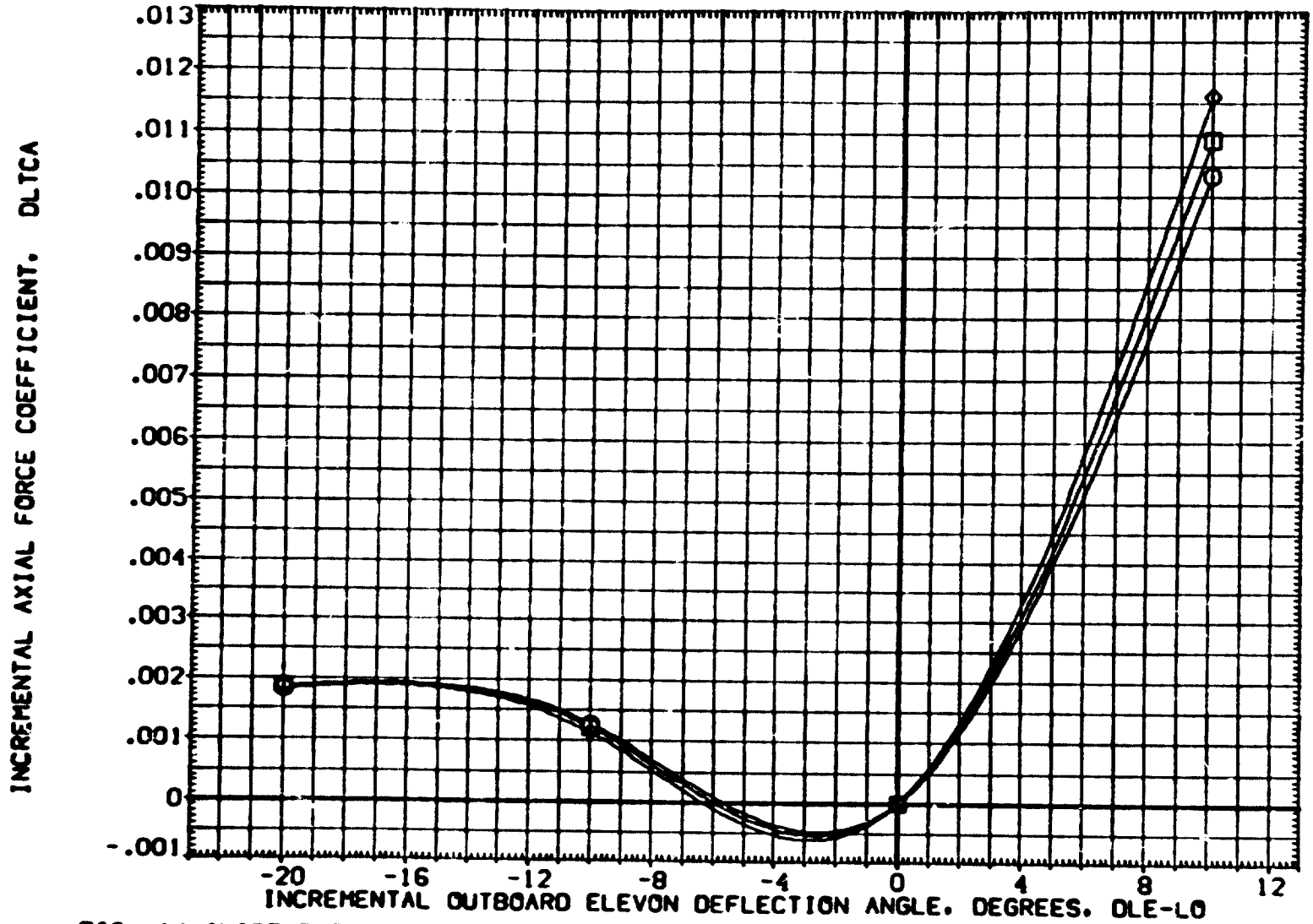


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
△	19.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	21.000	RNVL	3.530			DTW061	.000	DTW033	10.000	BREF	936.6800	IN.
□	23.000									XMRP	1076.6800	IN.XB
▽	25.000									YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

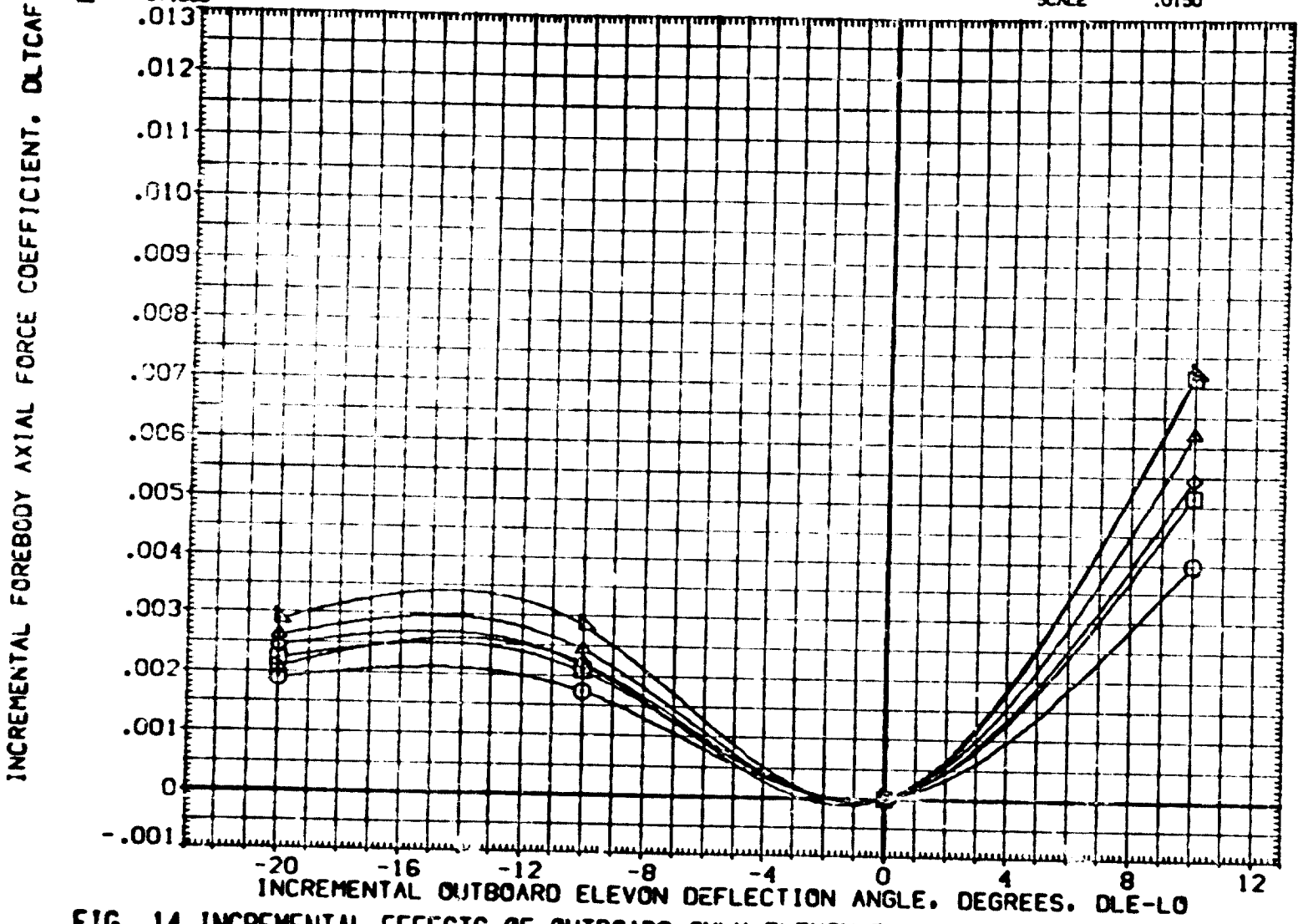


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

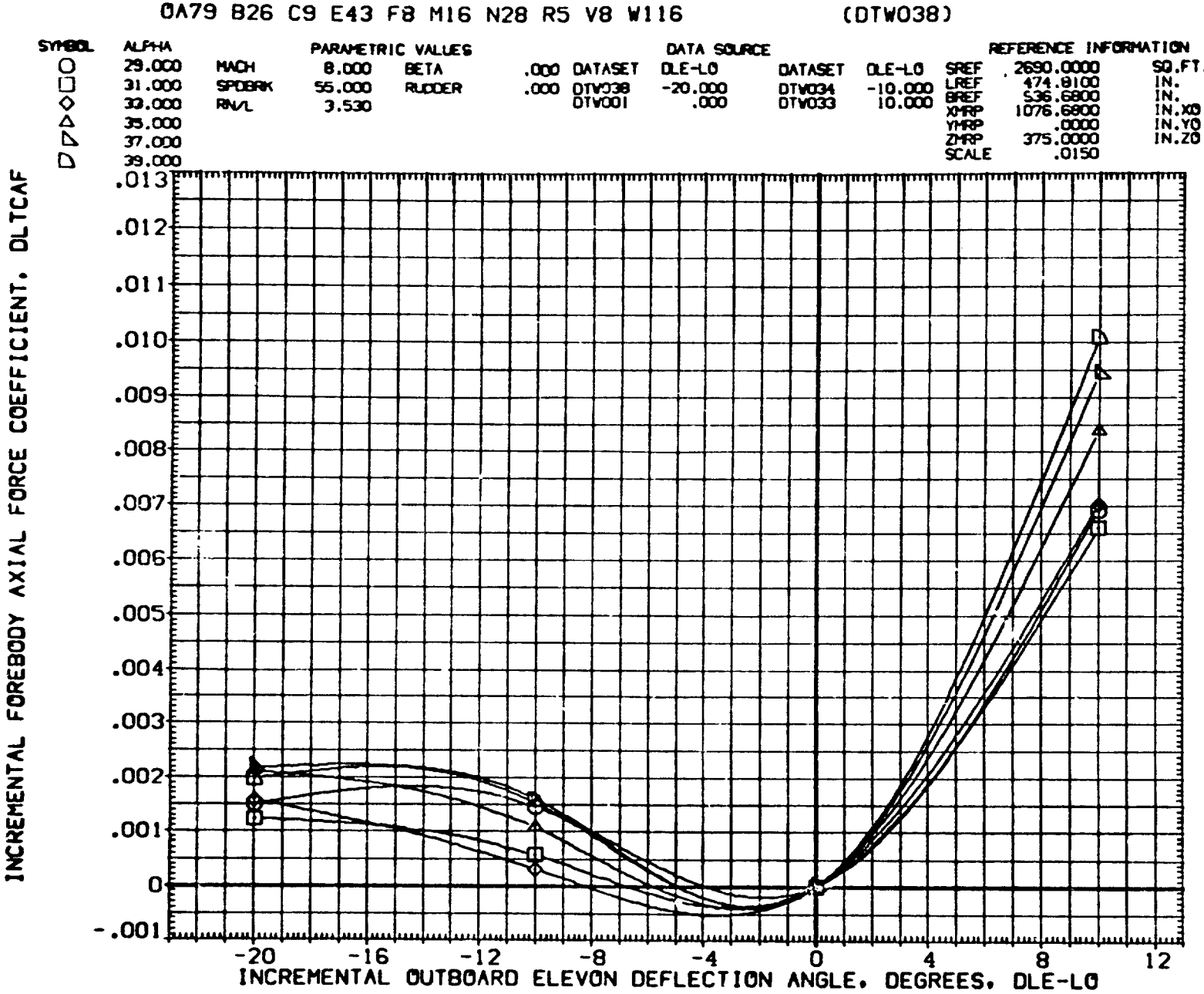


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

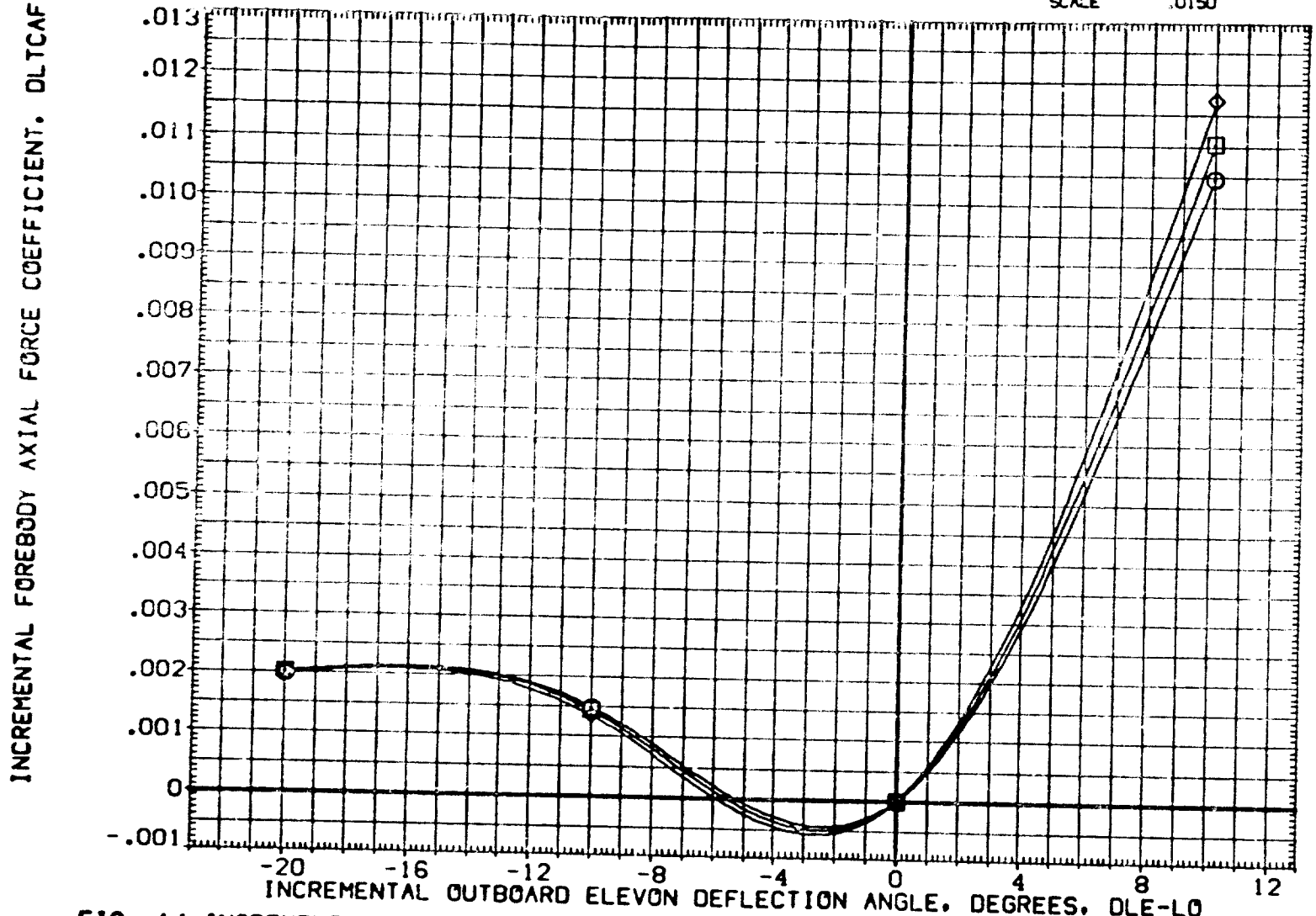


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	19.000	SPDBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.XB
▷	25.000									YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

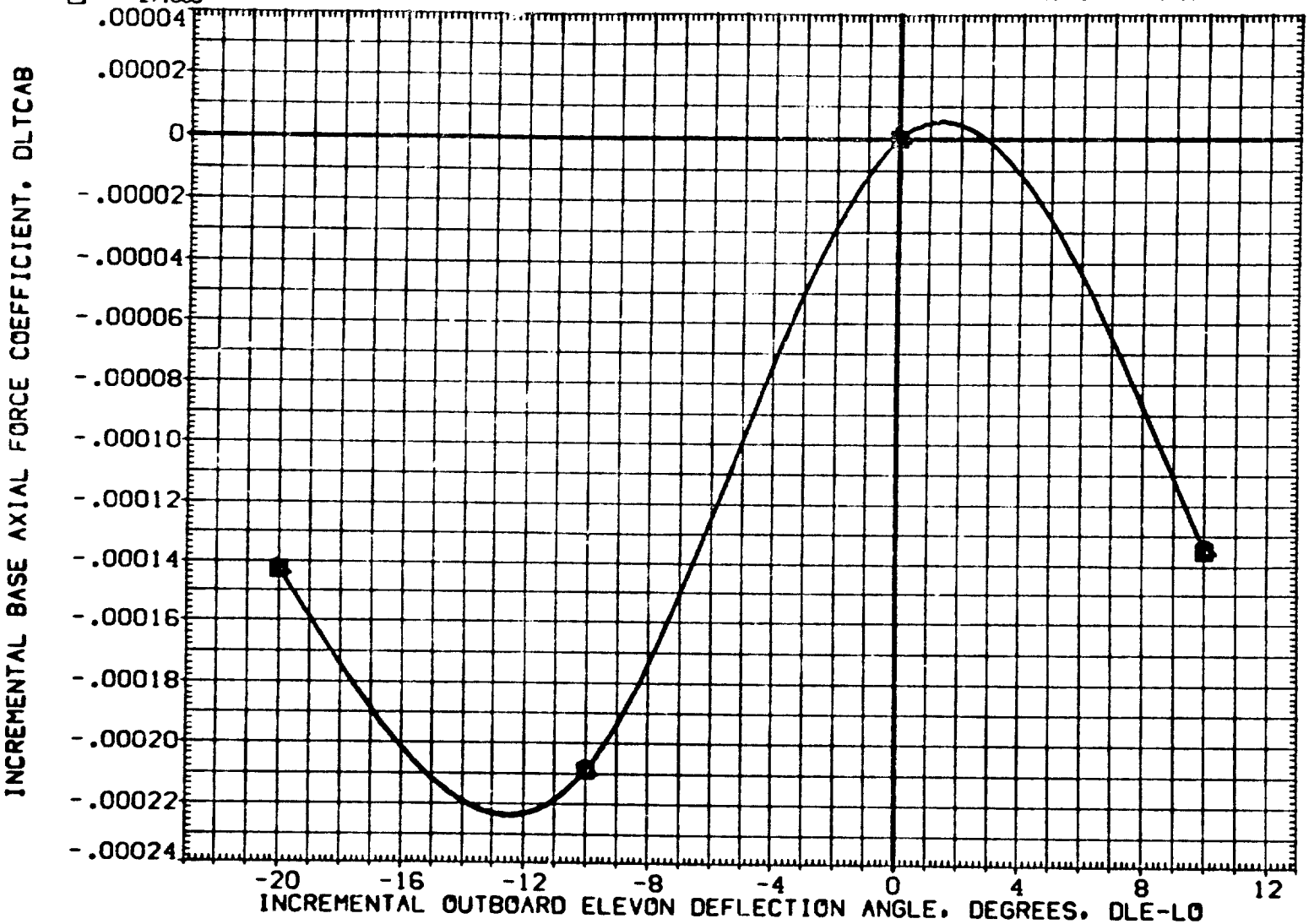


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	31.000	SPDBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	33.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.X0
▷	37.000									YMRP	.0000	IN.Y0
▽	39.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

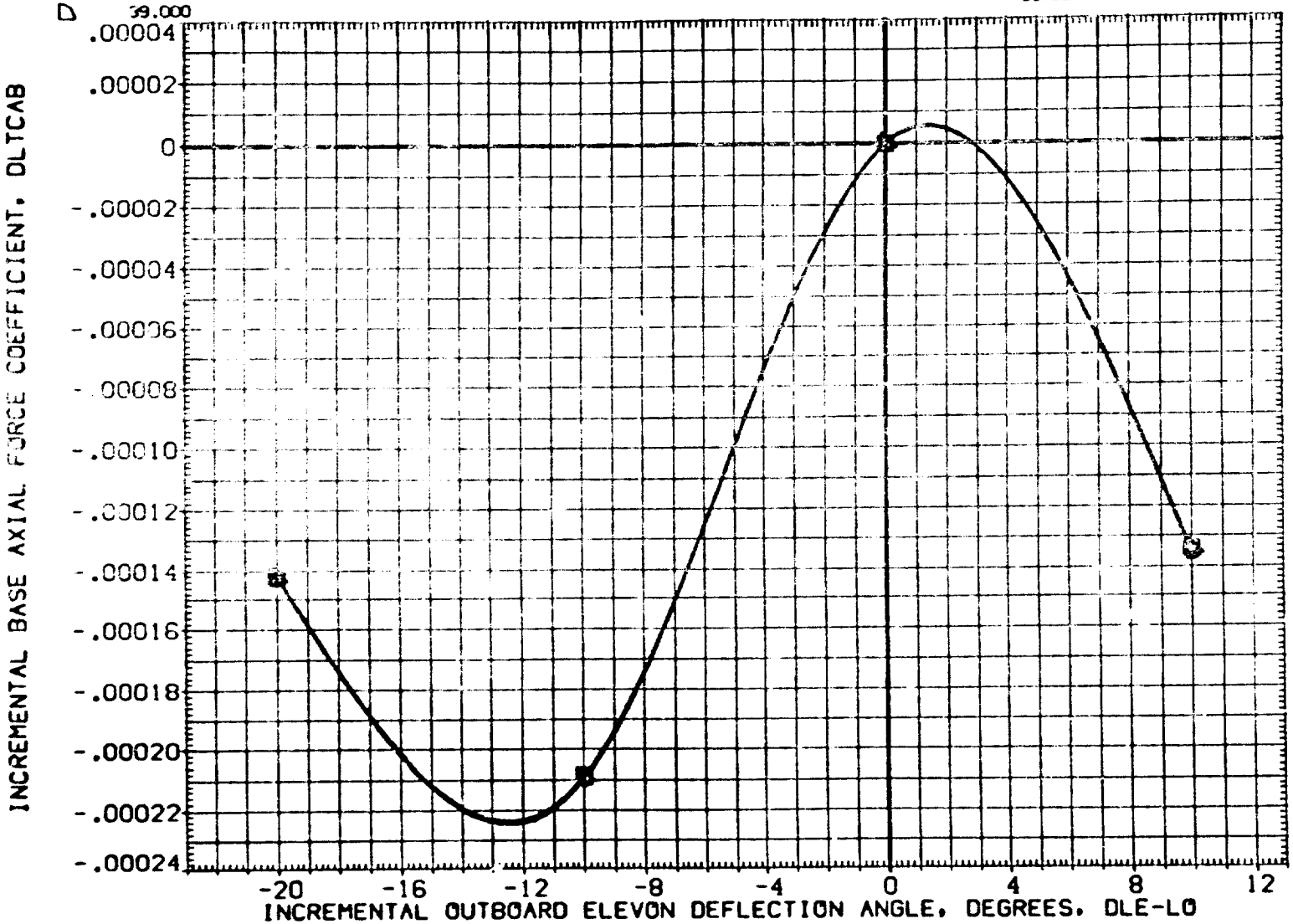


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RNVL	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XG
										YMRP	.0000	IN.YG
										ZMRP	375.0000	IN.ZG
										SCALE	.0150	

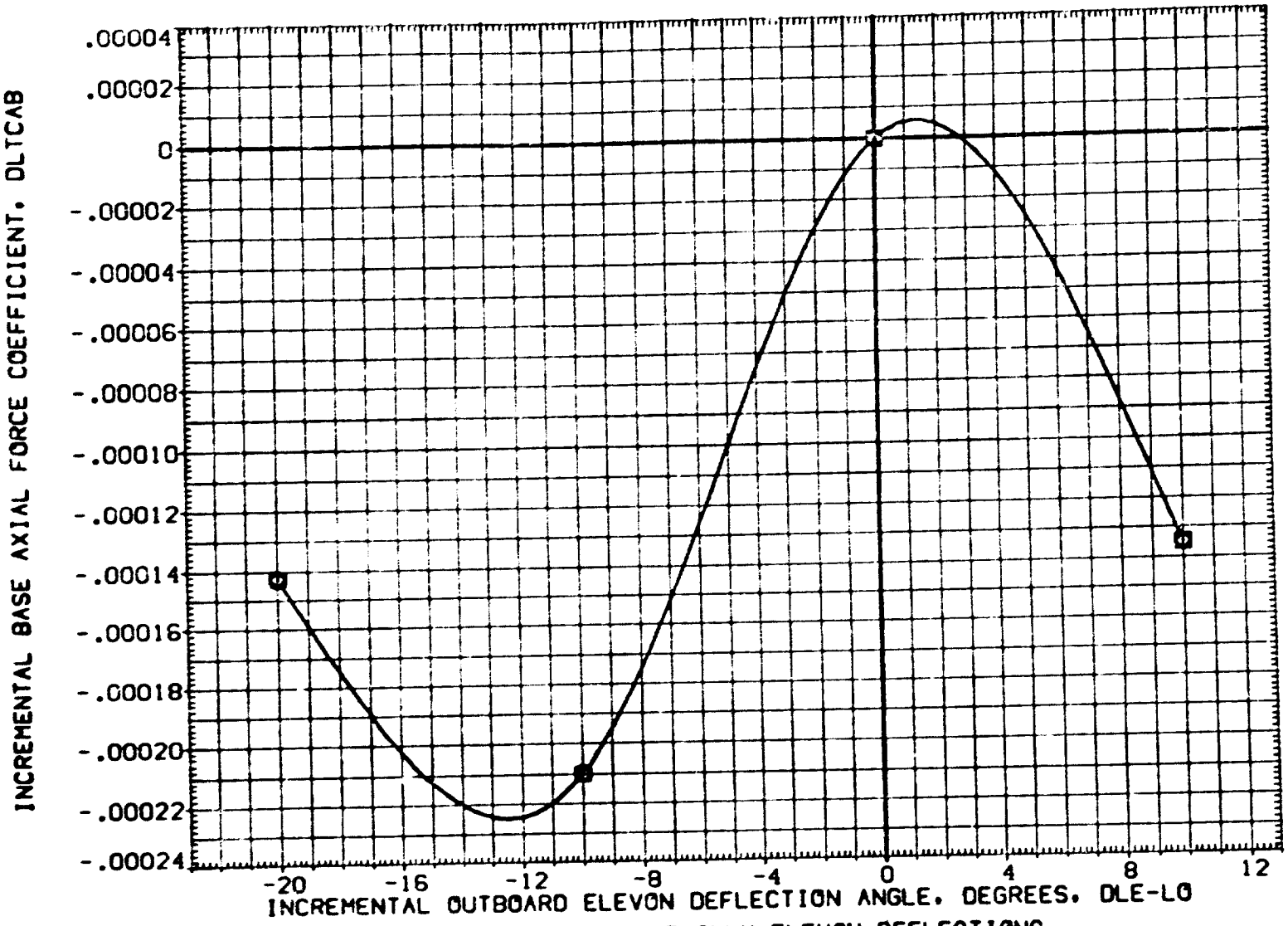


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	19.000	SPOBNK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.XB
▽	25.000									YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

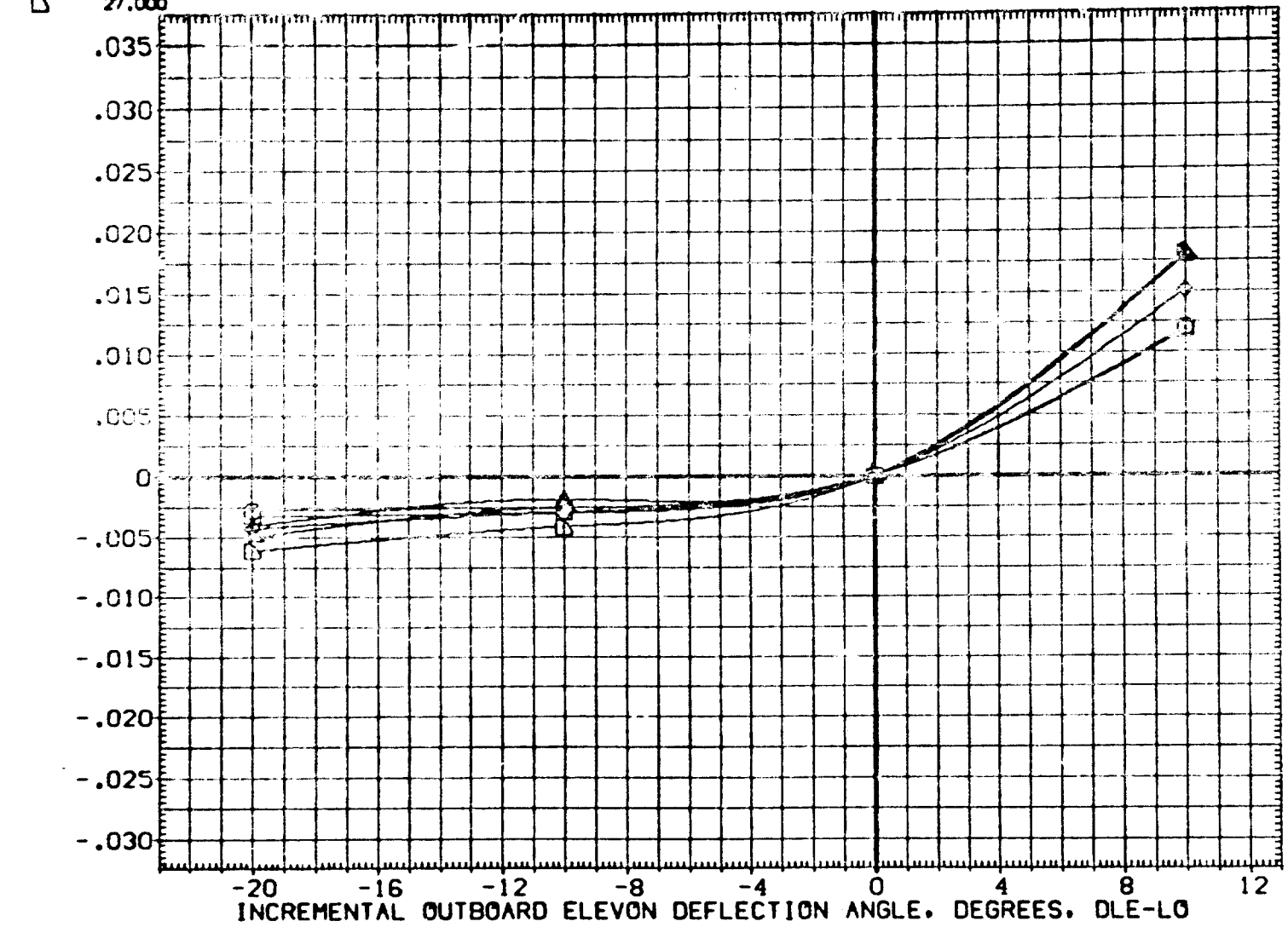


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

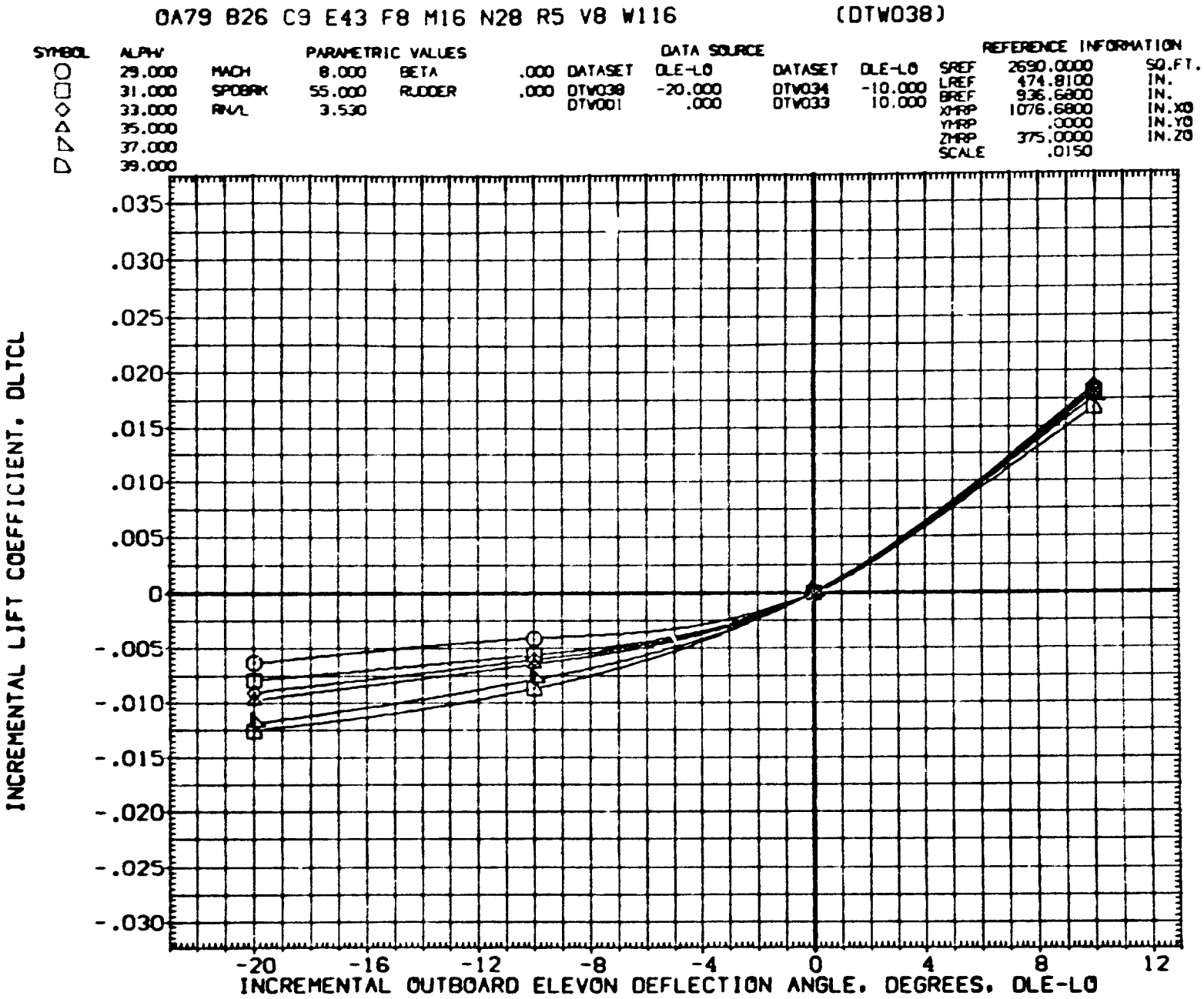


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	56.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.XO
										YMRP	.0000	IN.YO
										ZMRP	375.0000	IN.ZO
										SCALE	.0150	

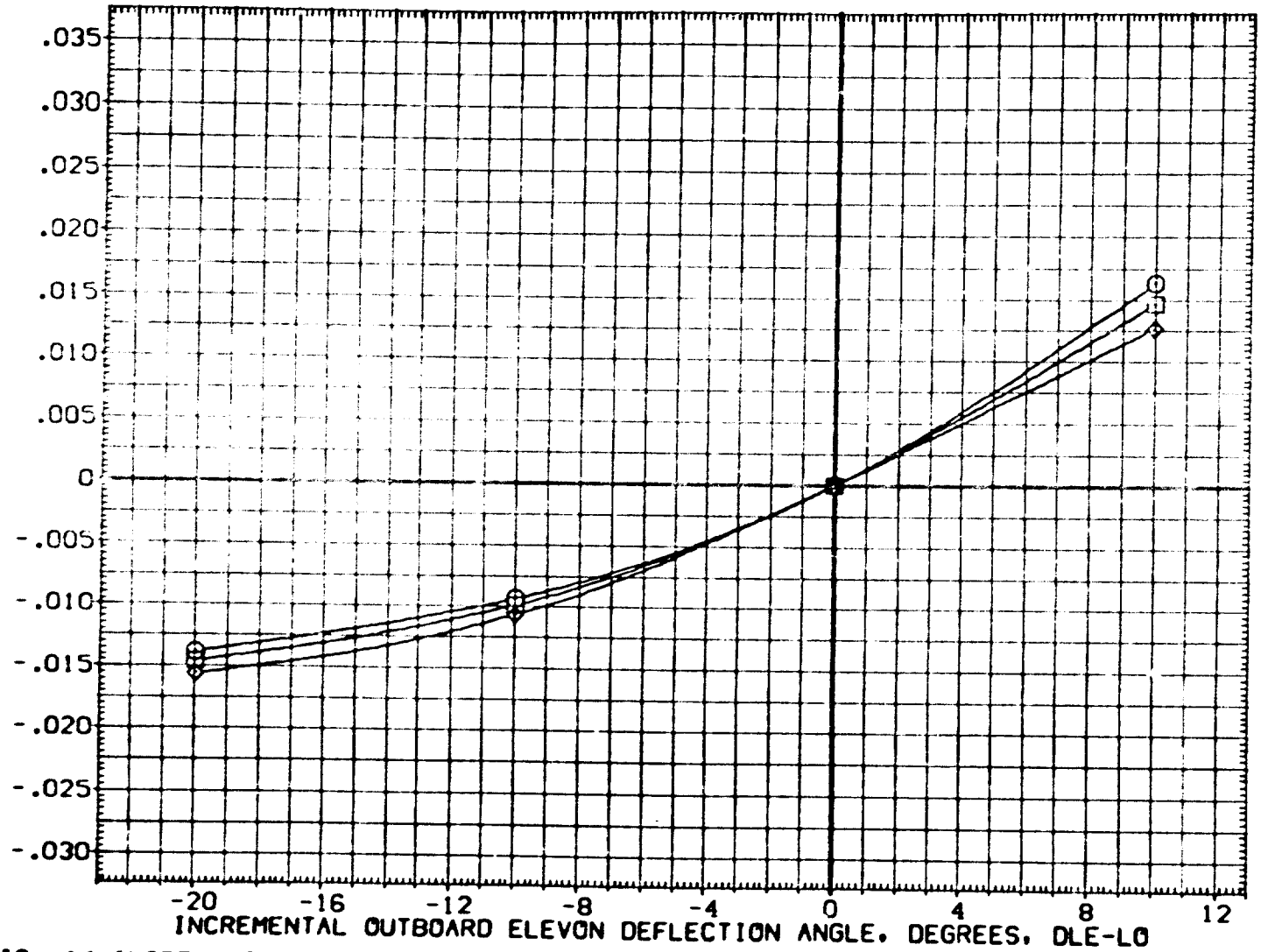


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

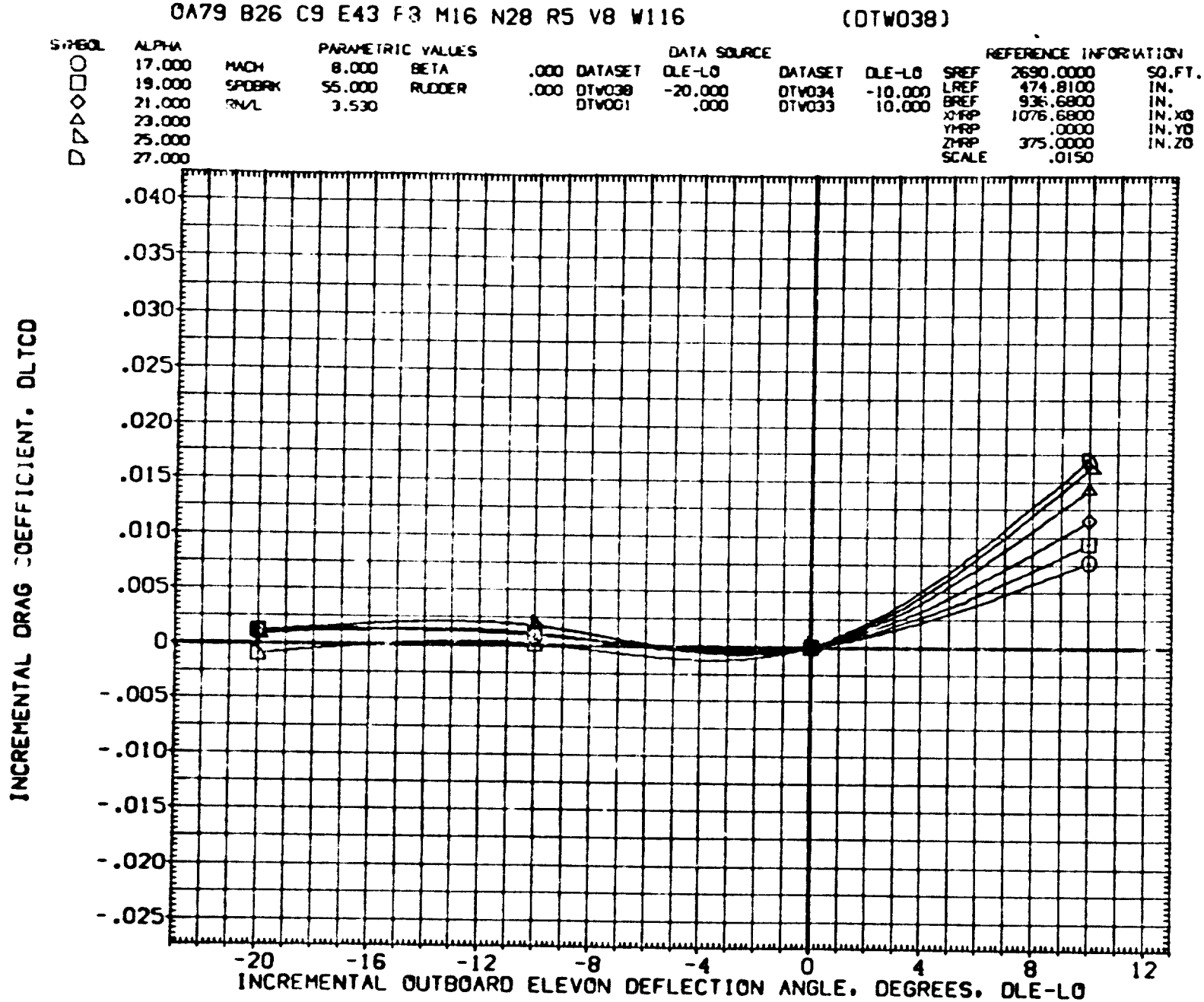


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

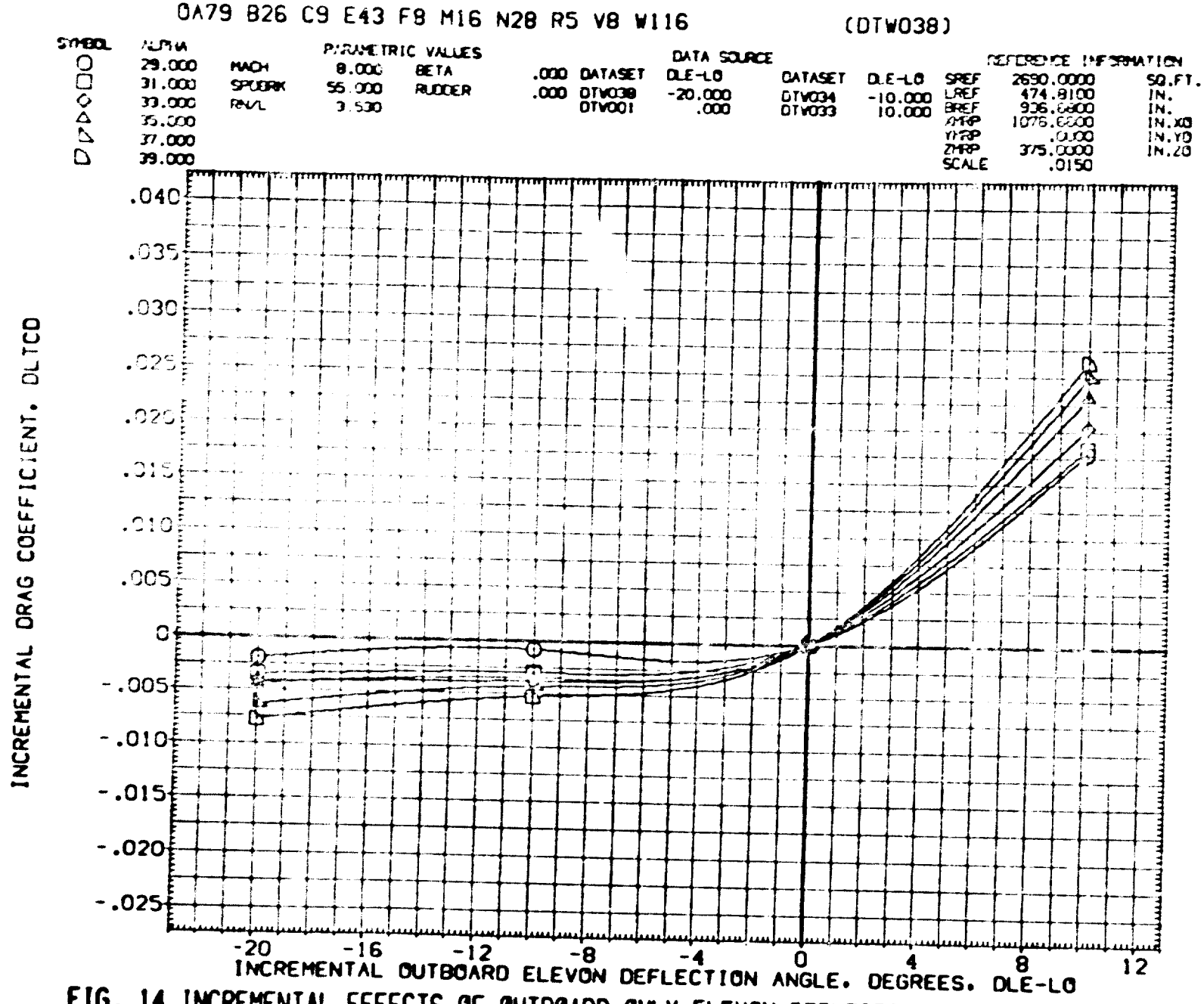


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW038)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW038	-20.000	DTW034	-10.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW001	.000	DTW033	10.000	BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

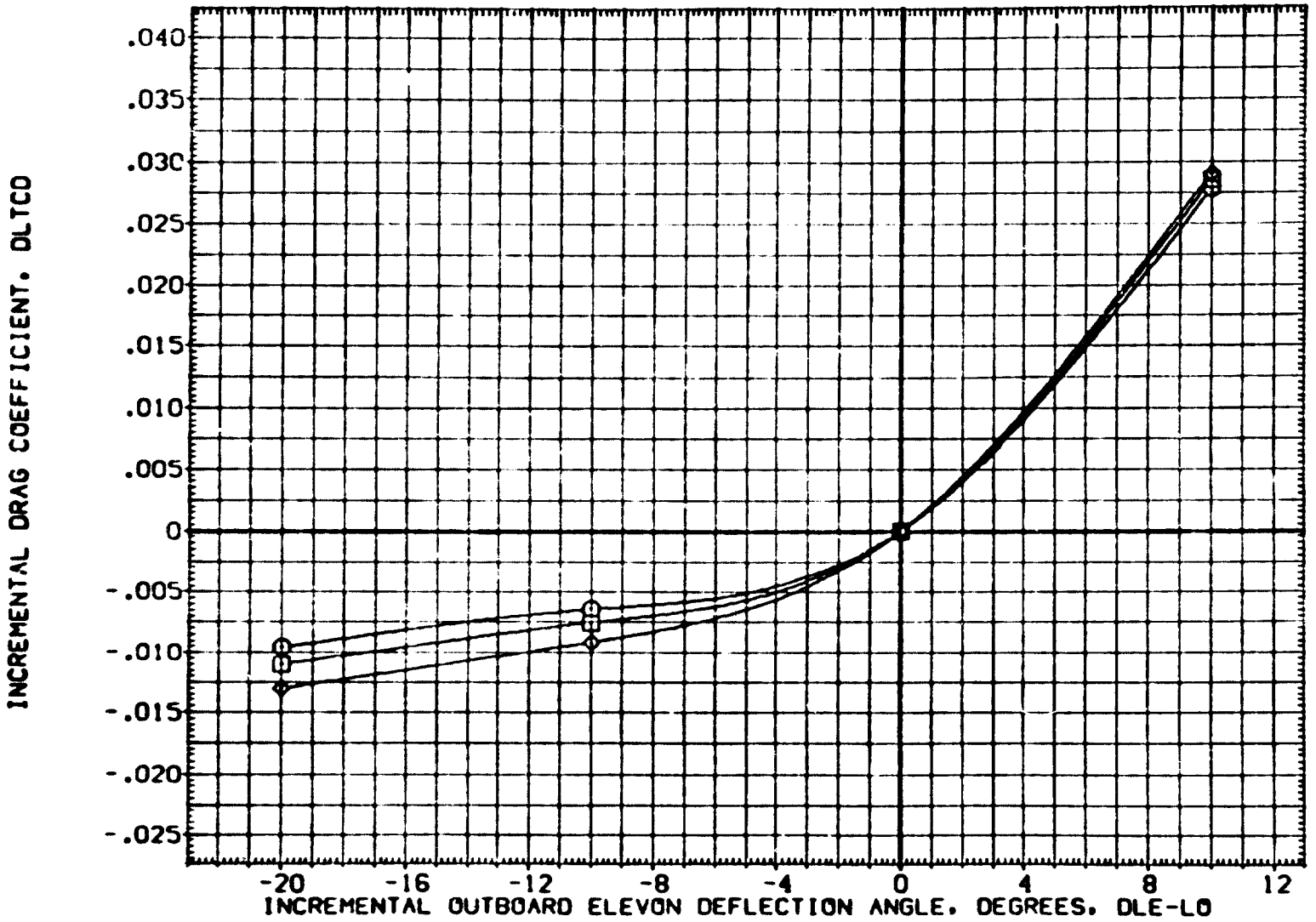


FIG. 14 INCREMENTAL EFFECTS OF OUTBOARD ONLY ELEVON DEFLECTIONS

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV012)	○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV001)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV013)	◇	0A75 B26 C9 E43 F8 H16 N28 R5 V8 V116

BOFLAP	RNVL
-11.700	3.530
.000	3.530
16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	906.6800	IN.
XMRP	1076.6900	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

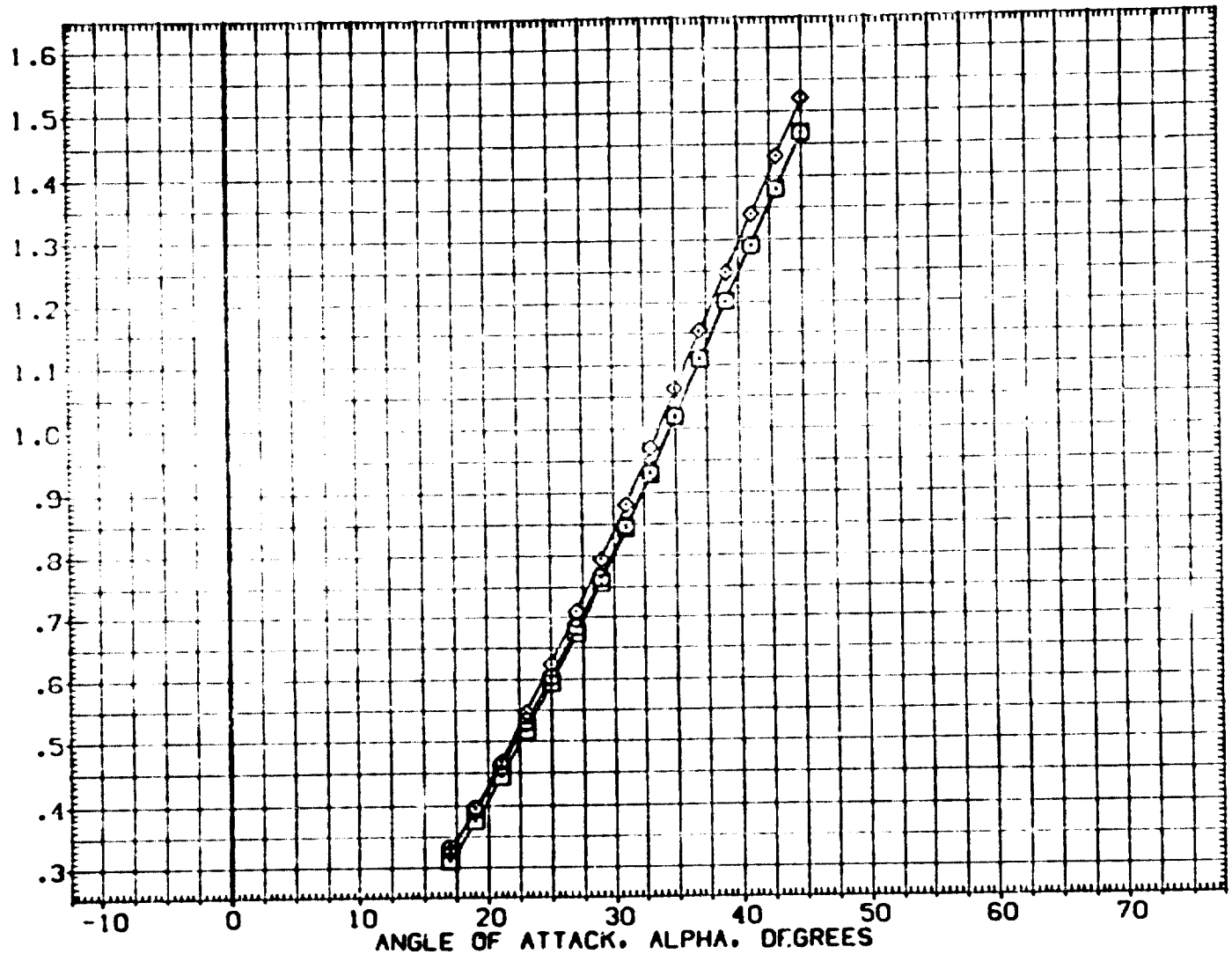


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

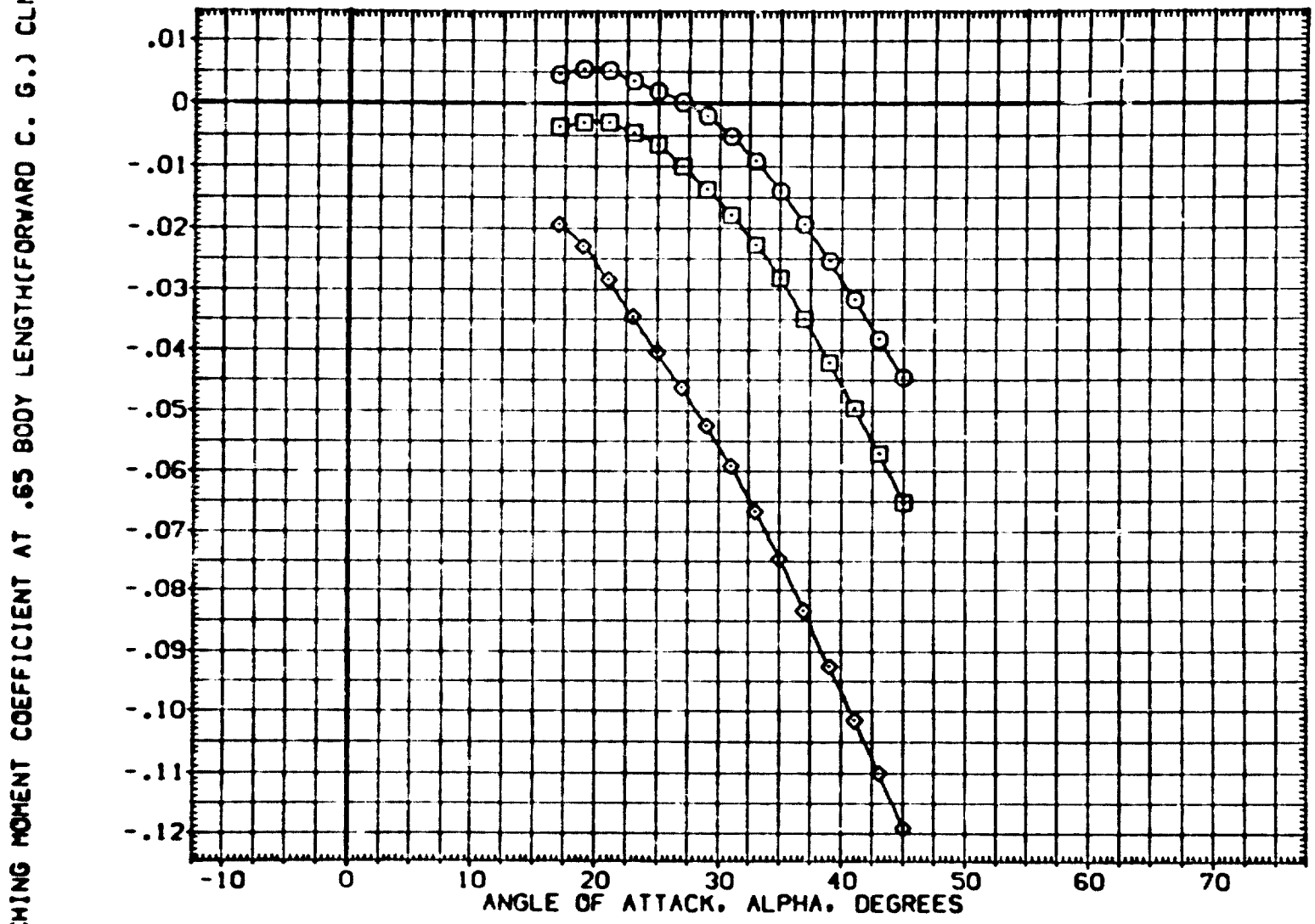


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

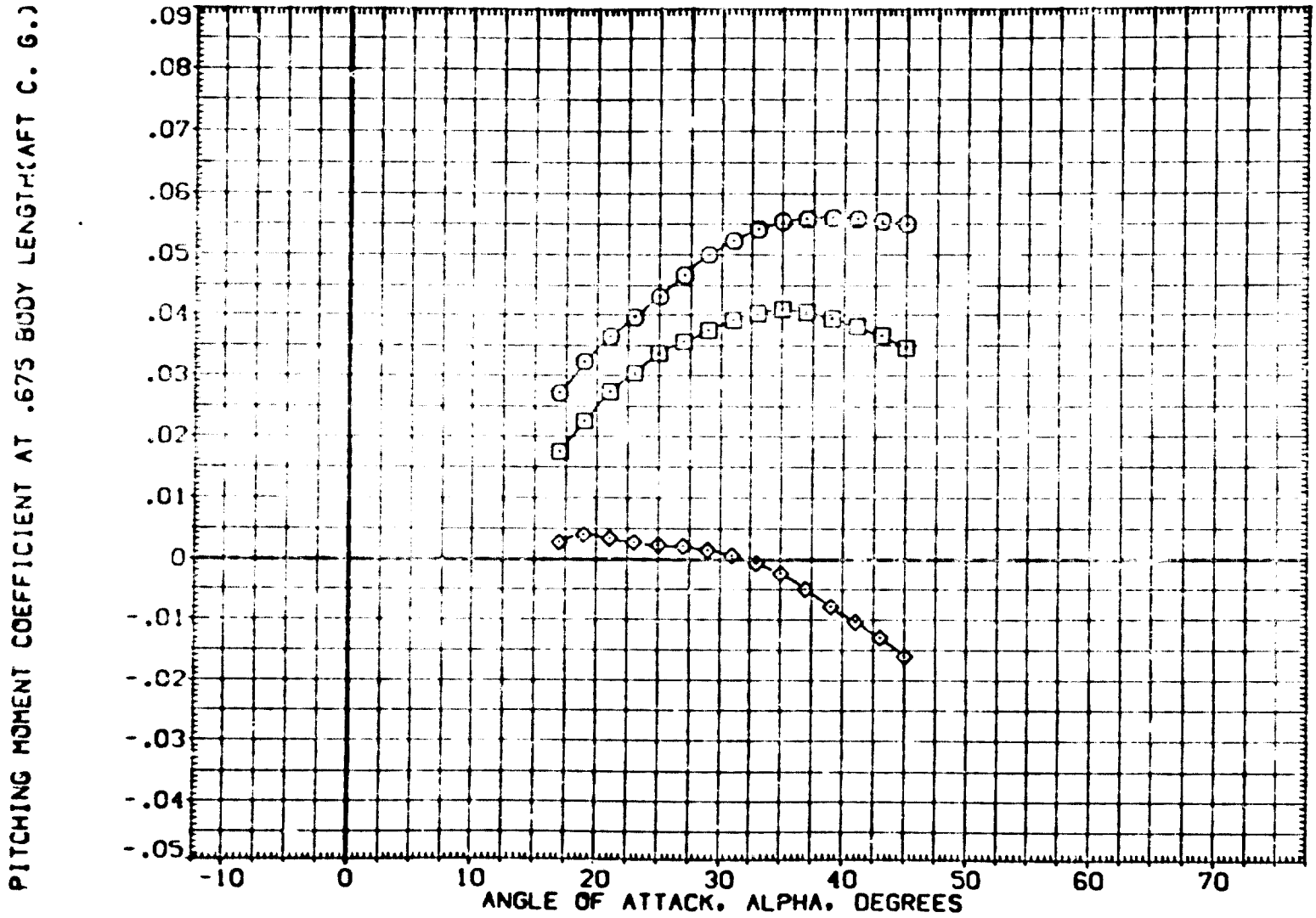


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	3.530

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

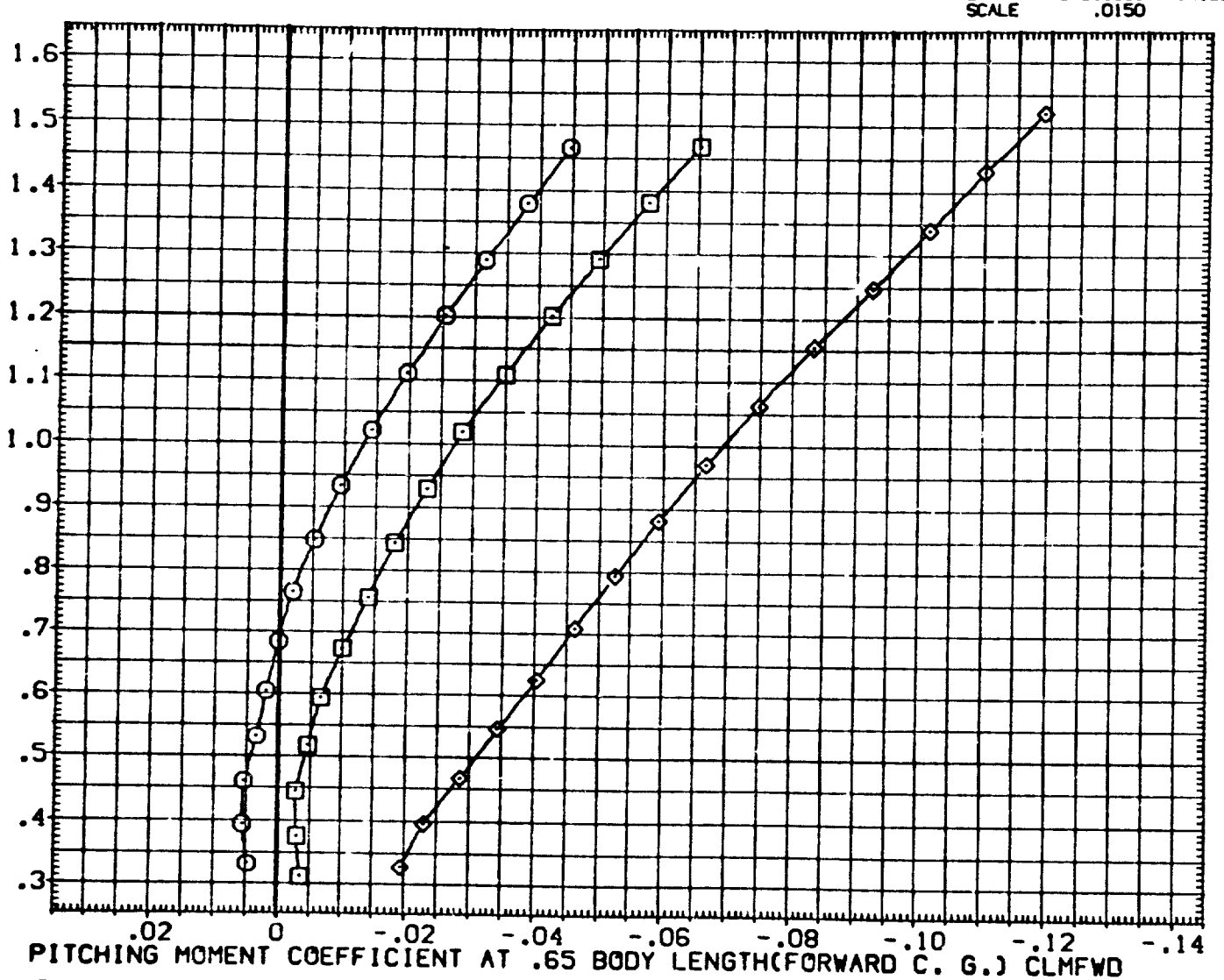


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	SOFLAP	RN/L
(CTV012)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	3.530
(CTV001)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(CTV013)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

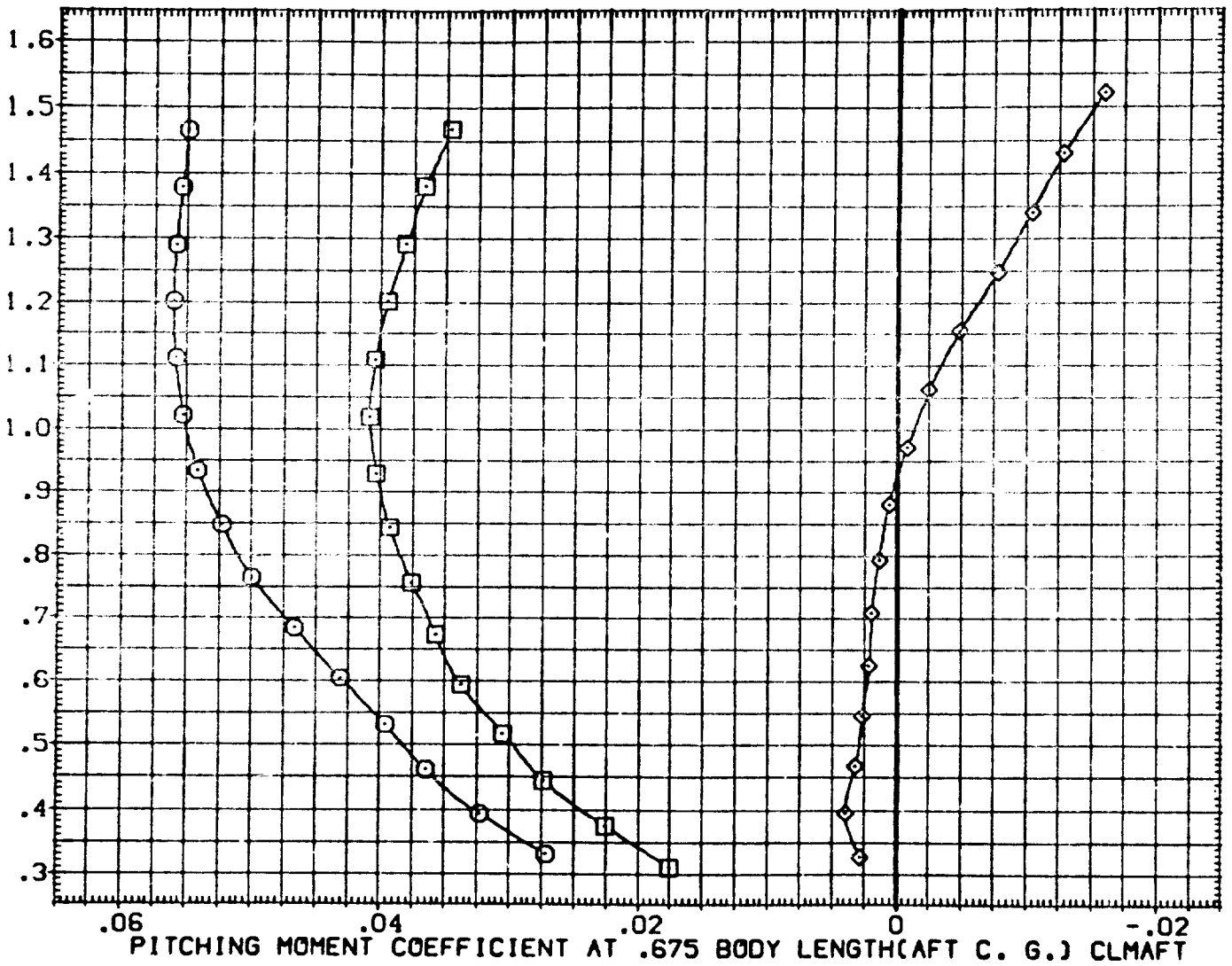


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.6100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

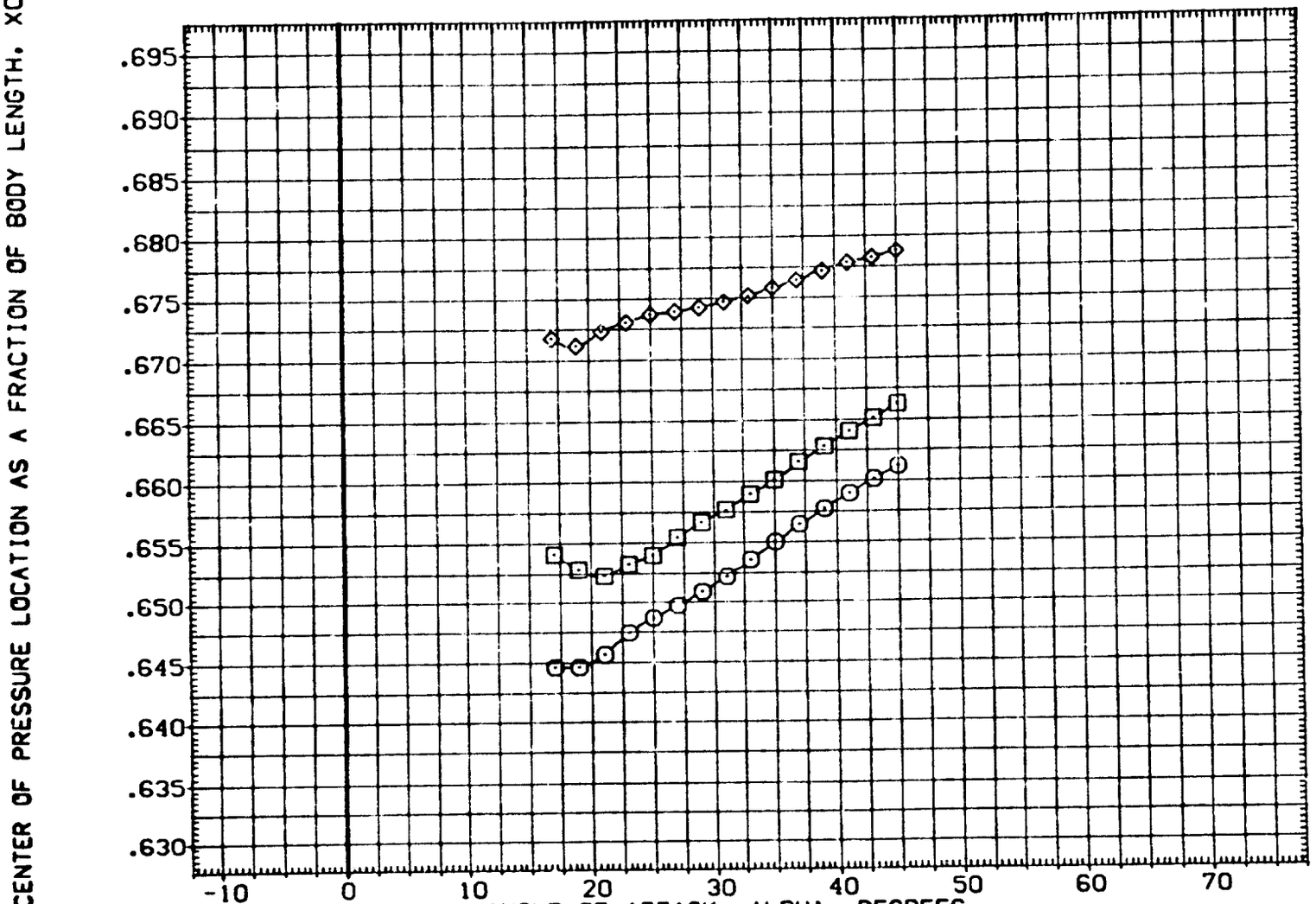


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RN/L
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

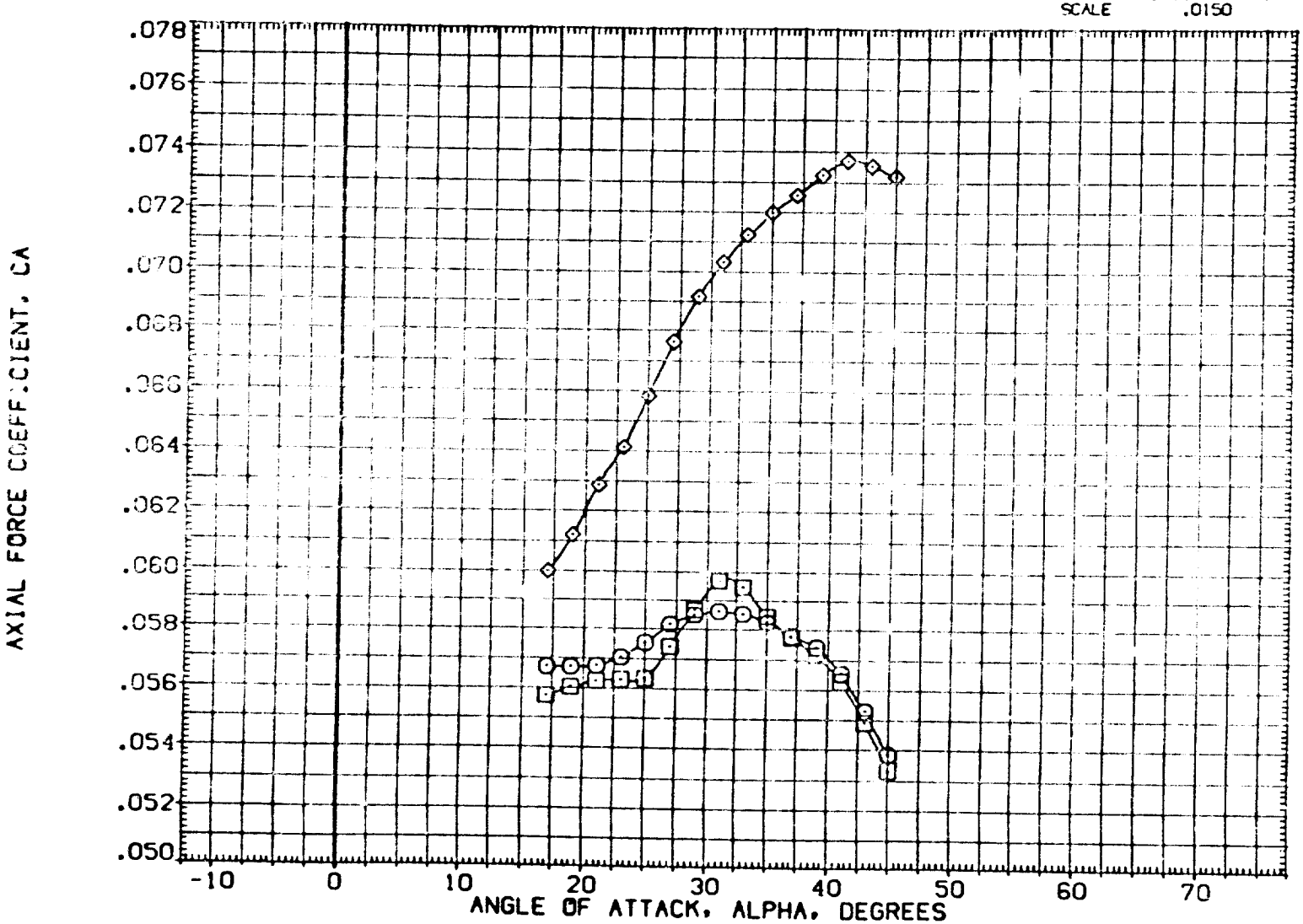


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RN/L
(CTV012)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	3.530
(CTV001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

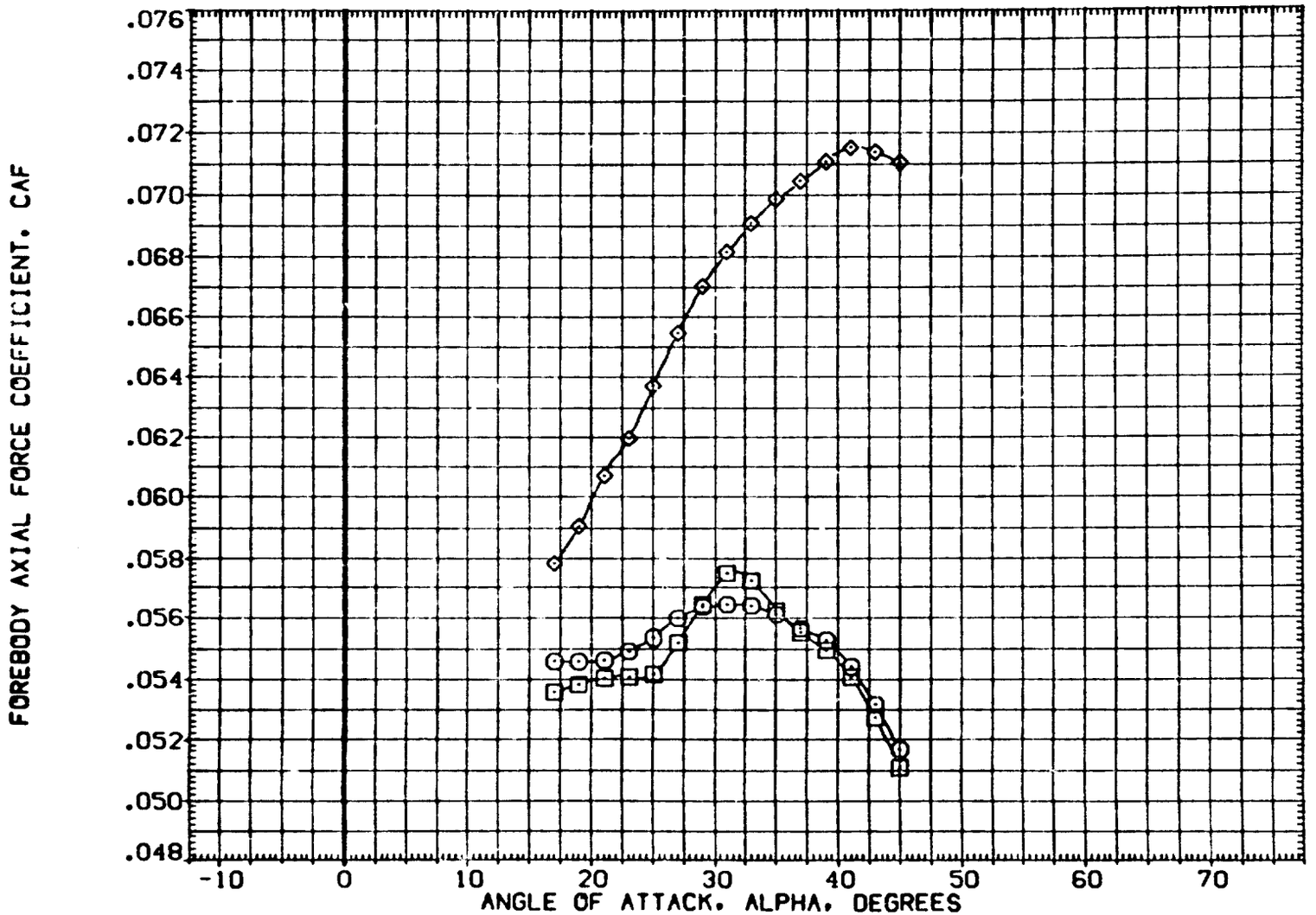


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV012) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	3.530
(CTV001) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	3.530
(CTV013) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

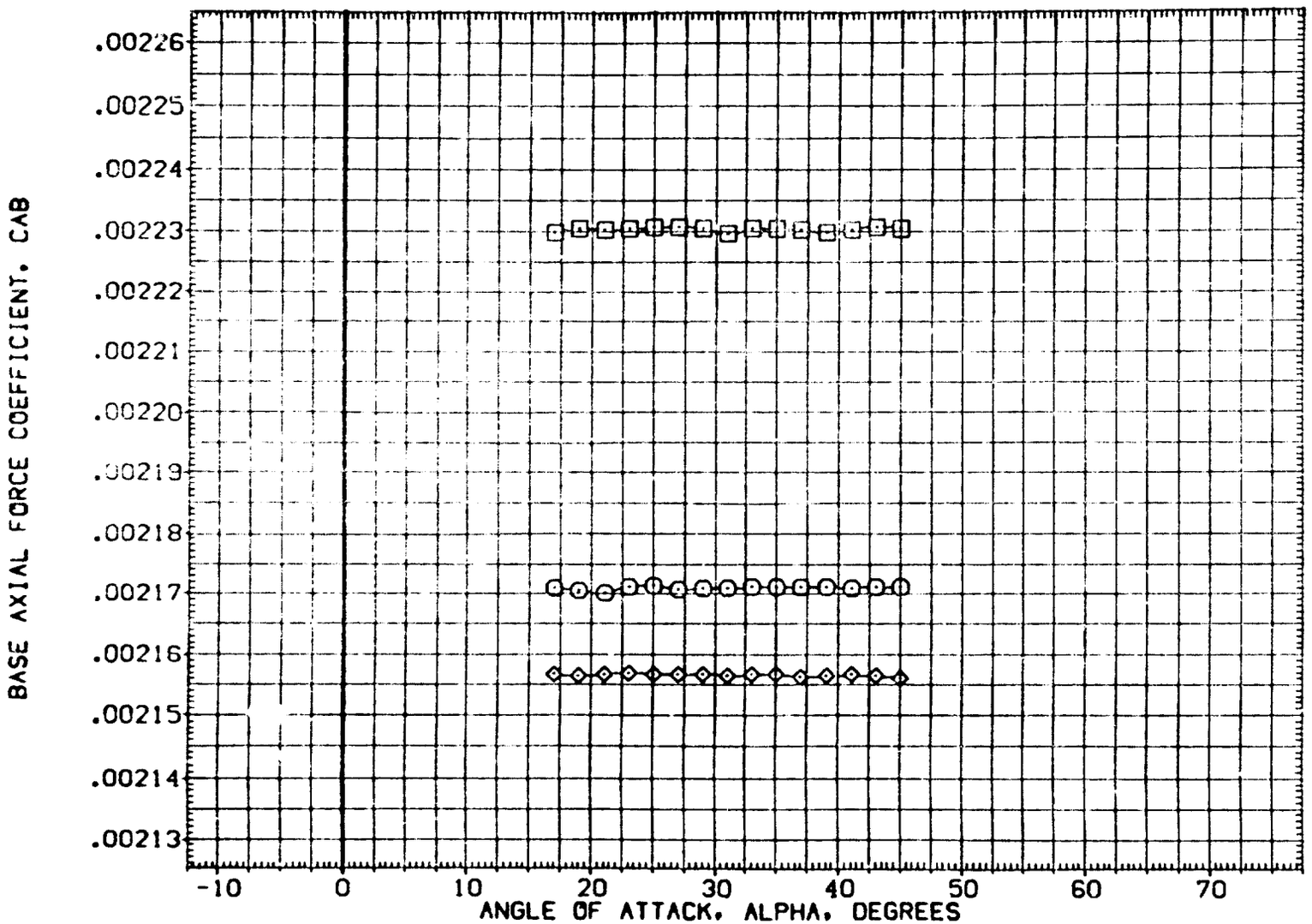


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(CTV012)	▭	BA79 B26 C9 E43 F8 M16 N28 R5 V6 V116	-11.700	3.530
(CTV001)	▭	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(CTV013)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

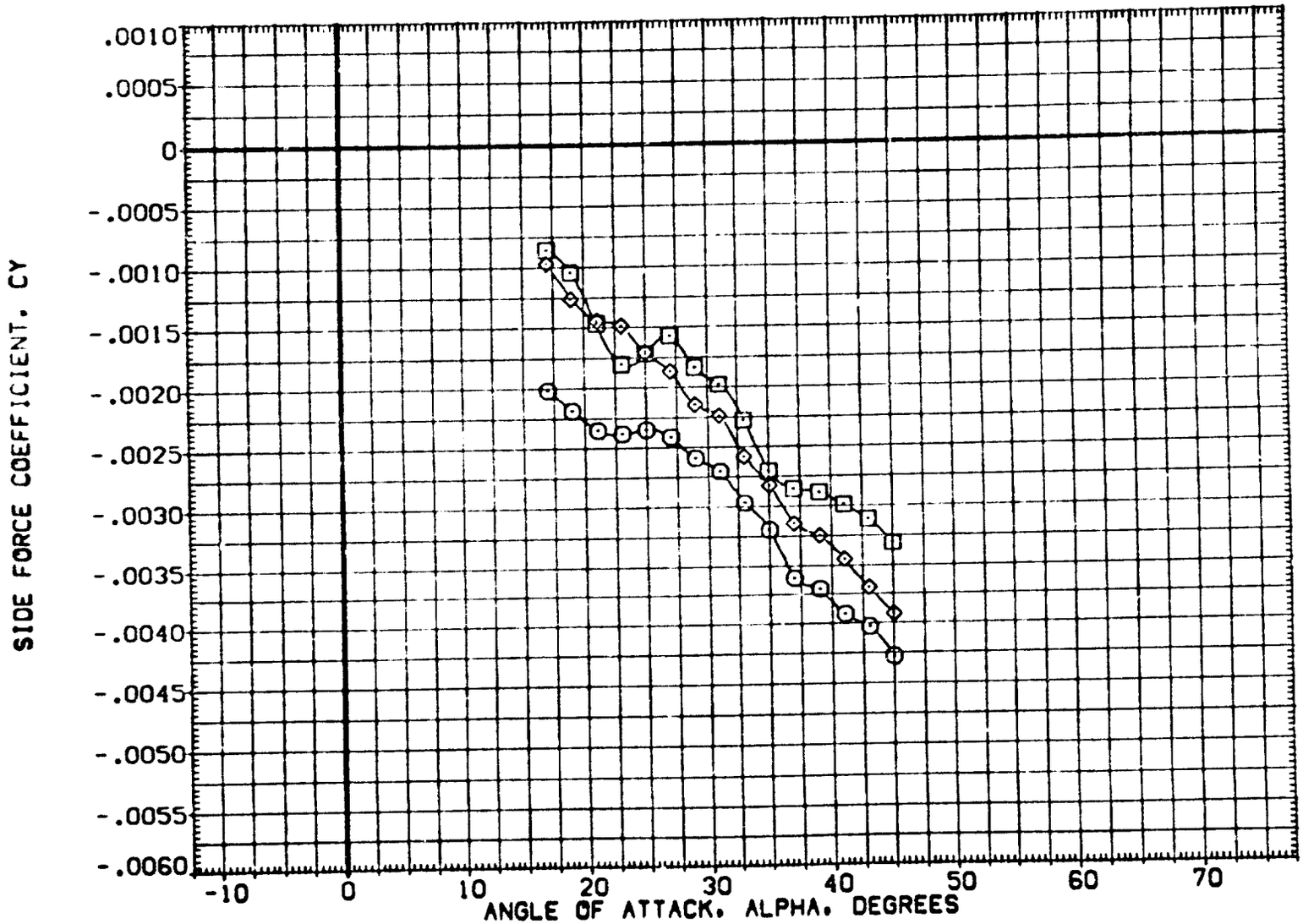


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(ATV012)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	3.530
(ATV001)	◁□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	3.530
(ATV013)	◇	0A79 B26 C9 E43 F8 M16 N29 R5 V8 V116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0300	SQ.FT.
LREF	474.8100	IN.
BREF	936.9800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

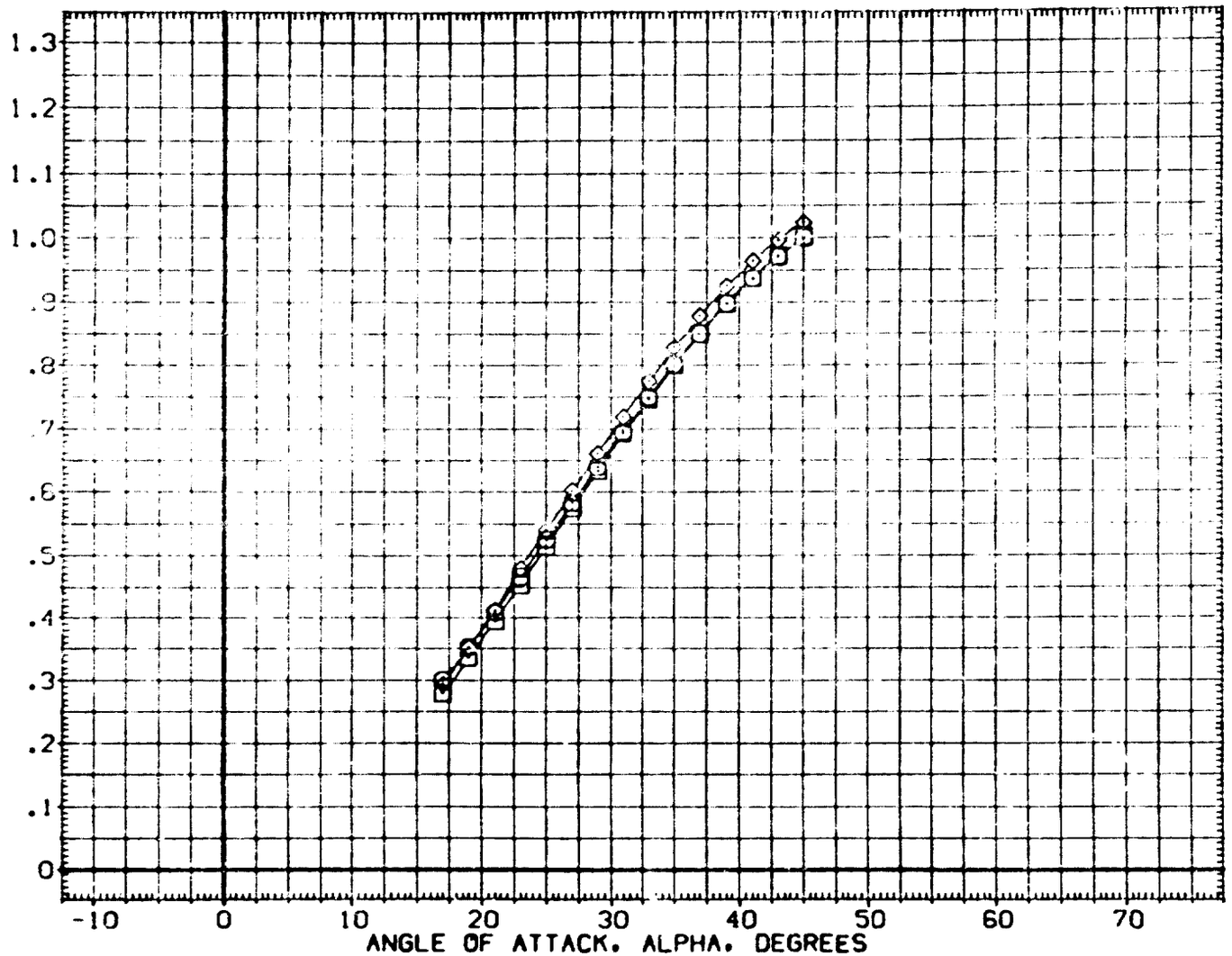


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RNVL
(ATW012)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	3.530
(ATW001)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	3.530
(ATW013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X8
YMRP	.0000	IN.Y8
ZMRP	375.0000	IN.Z8
SCALE	.0150	

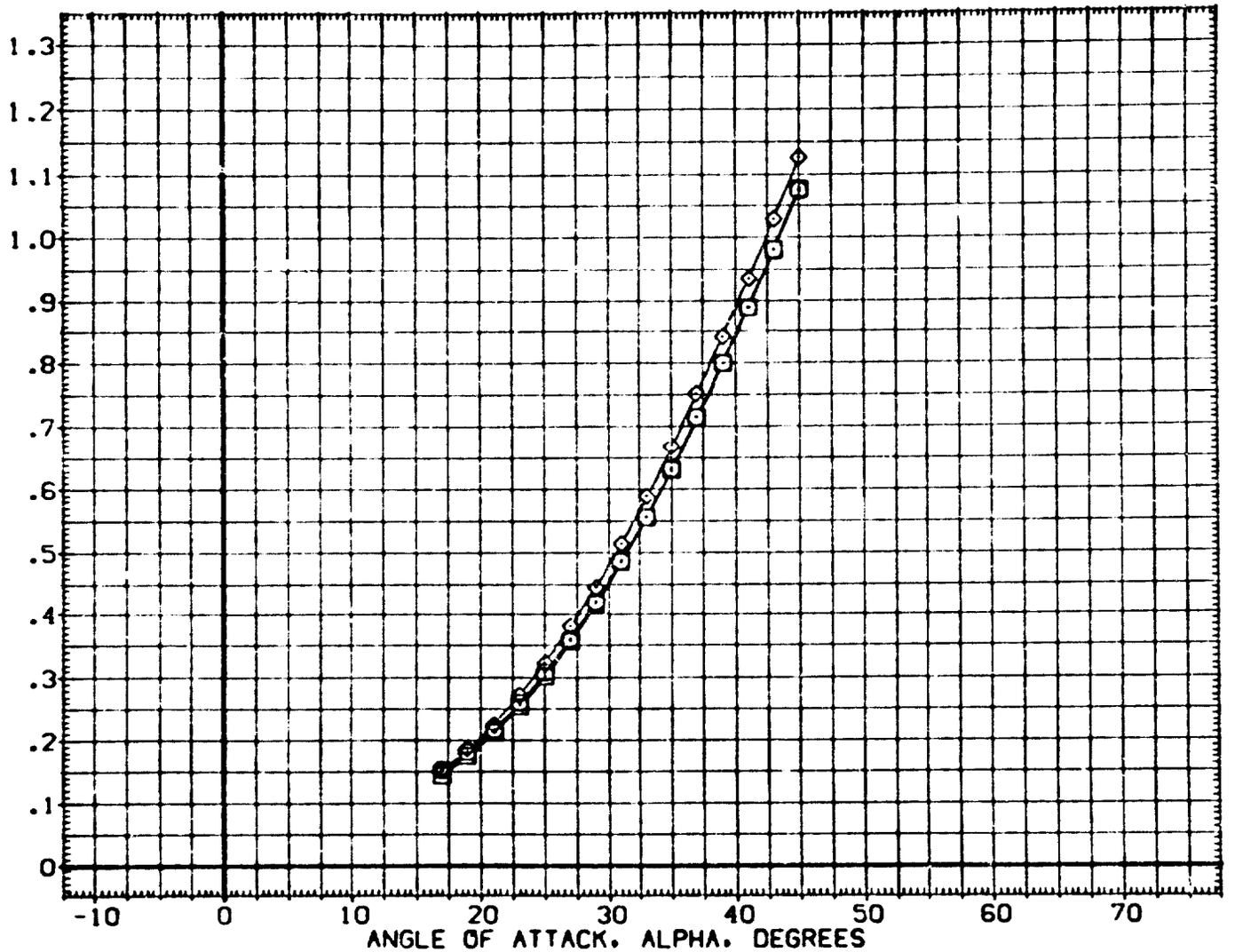


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV012)	○	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16
(ATV001)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16
(ATV013)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16

BDFLAP	RN/L
-11.700	3.530
.000	3.530
16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

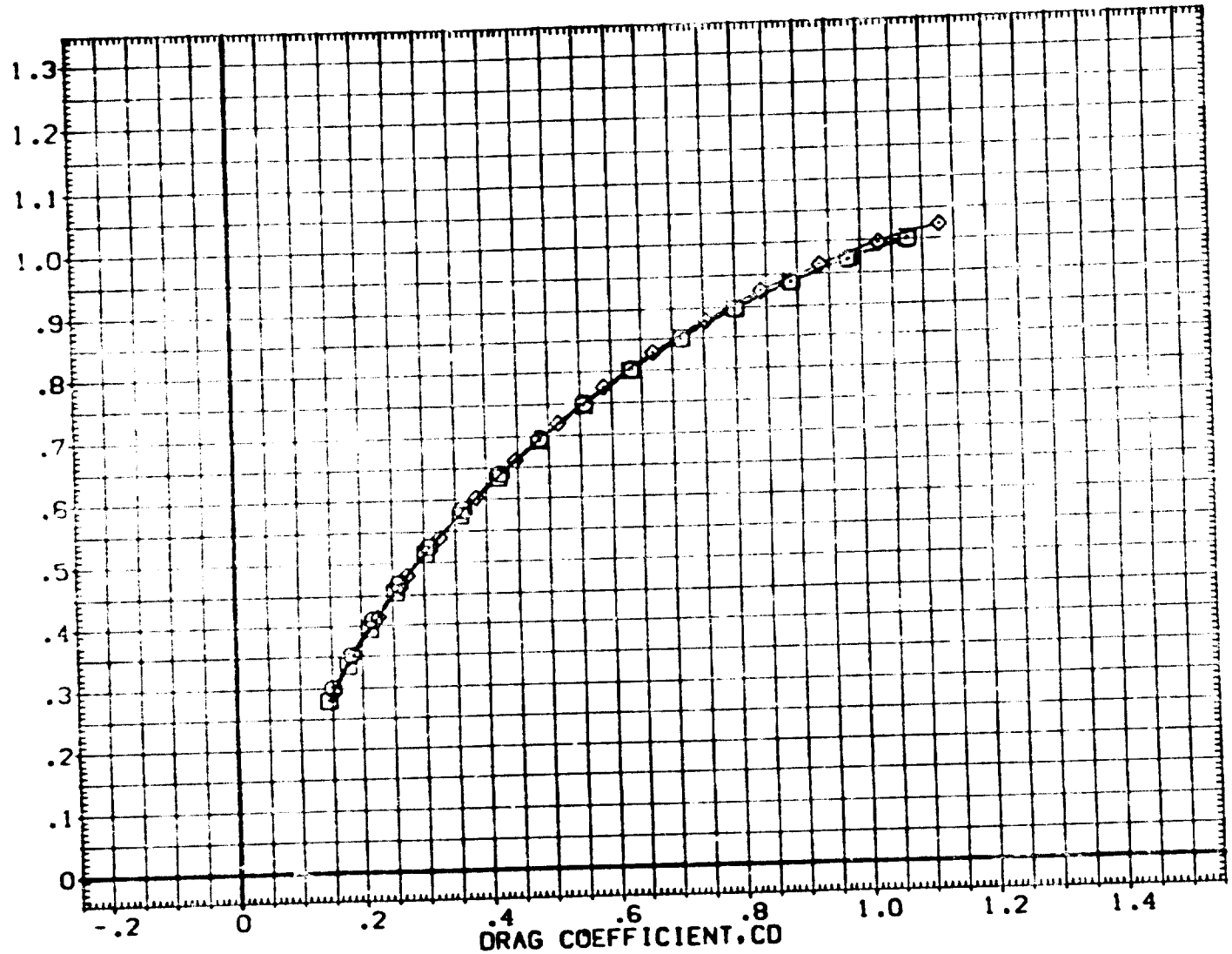


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW012)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATW001)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATW013)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

DOFLAP	RNVL
-11.700	3.530
.000	3.530
16.300	3.530

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

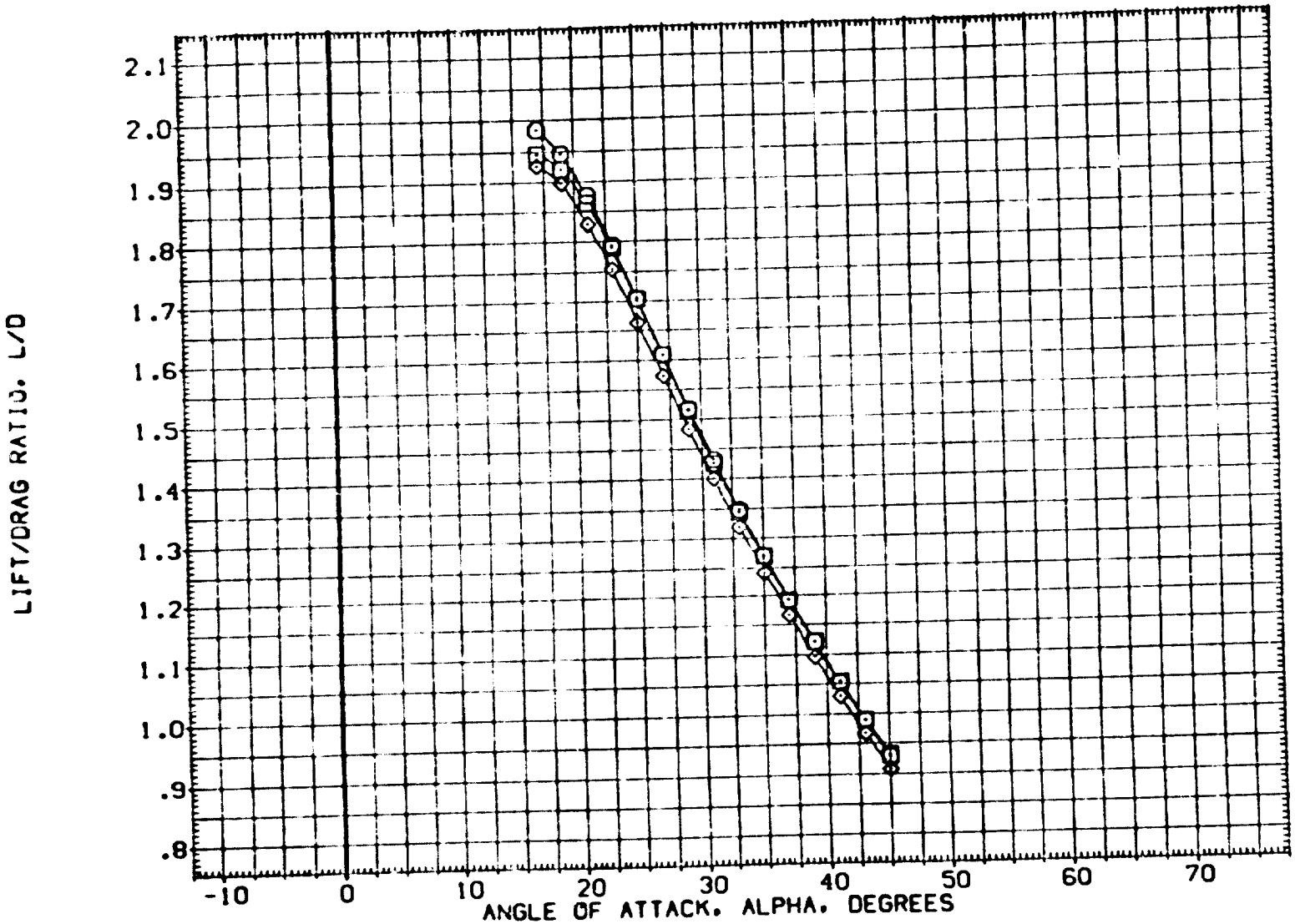


FIG. 15 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 3.53)

(A)MACH = 8.00

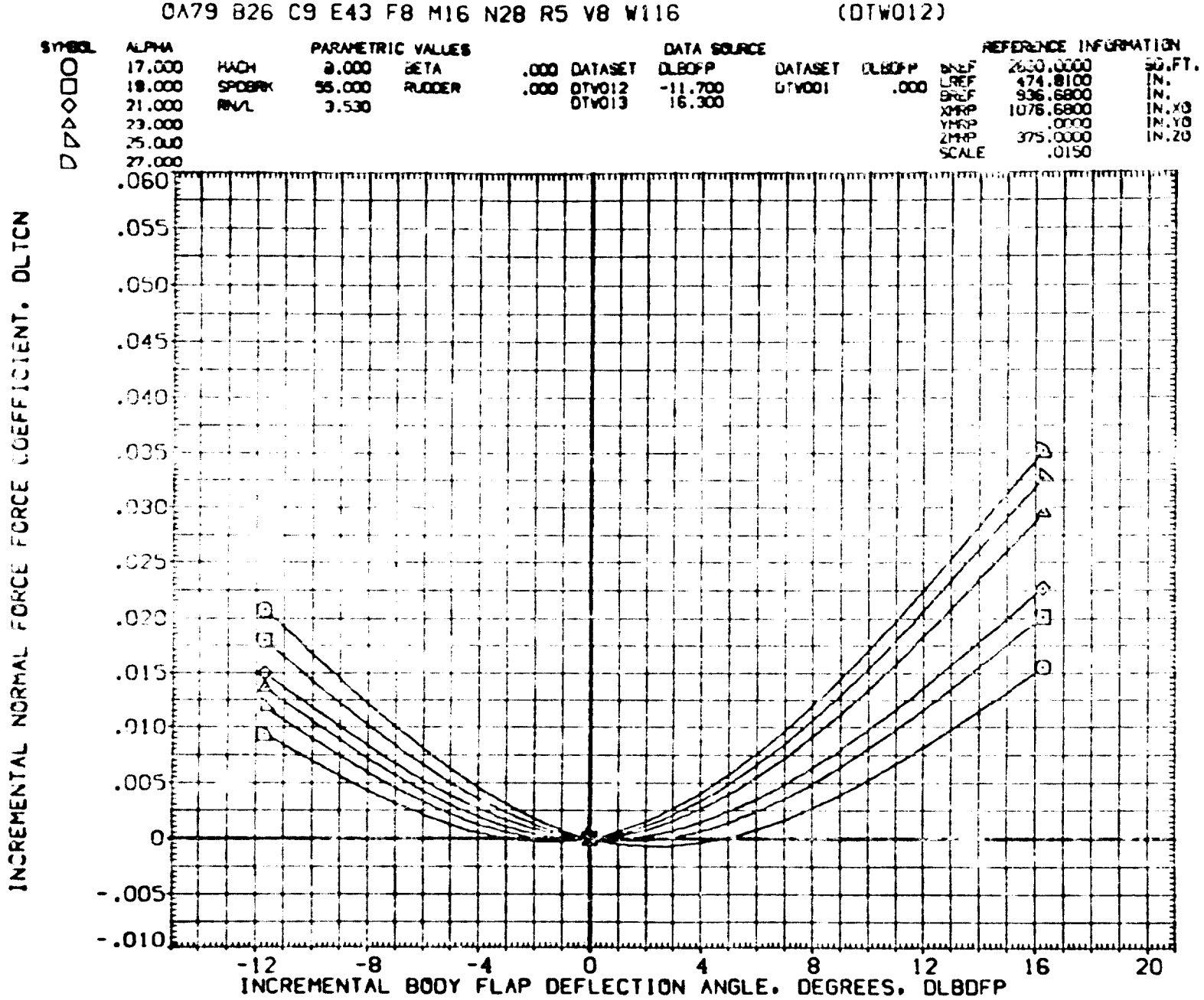


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

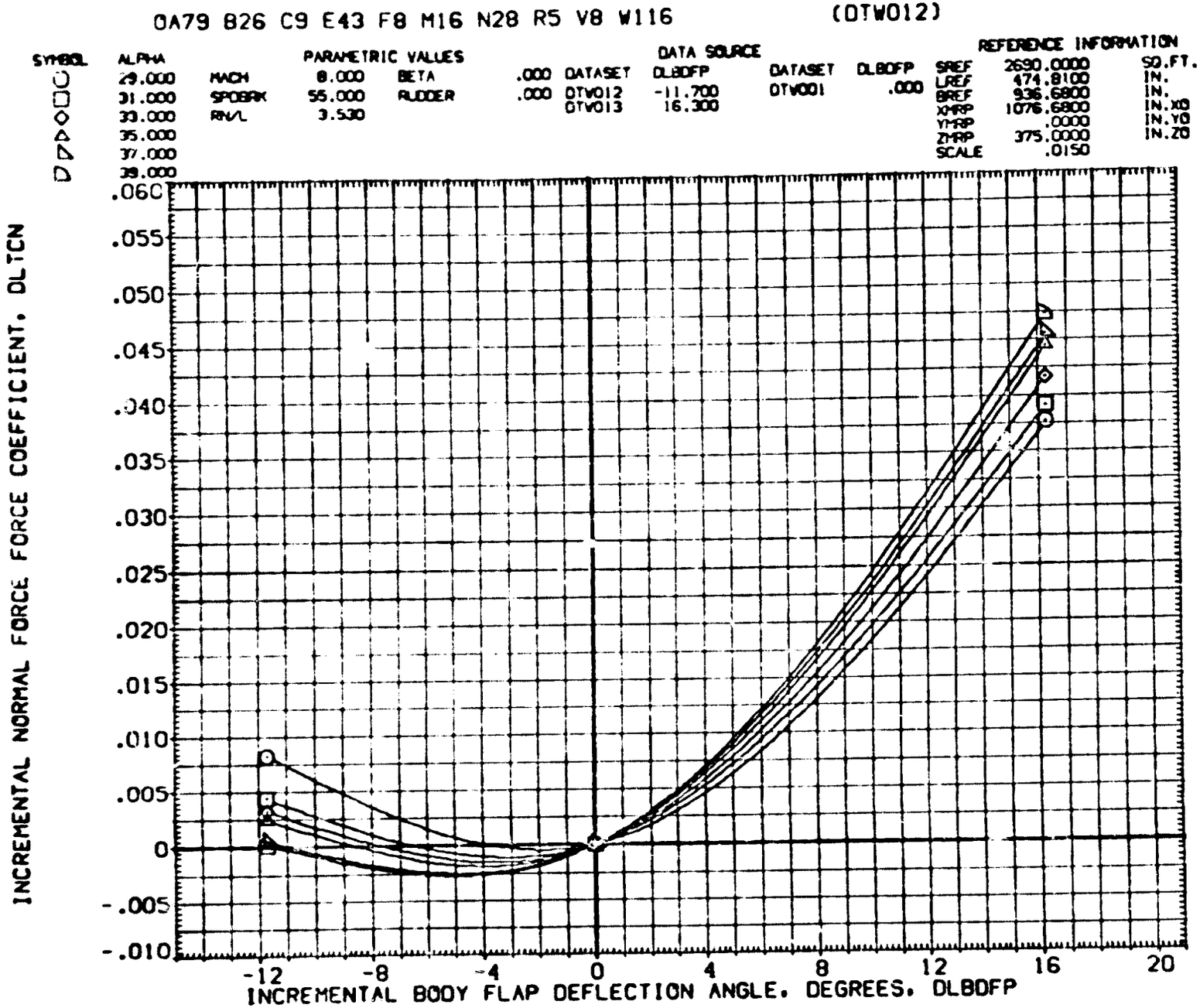


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V9 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	378.0000	IN.ZB
										SCALE	.0150	

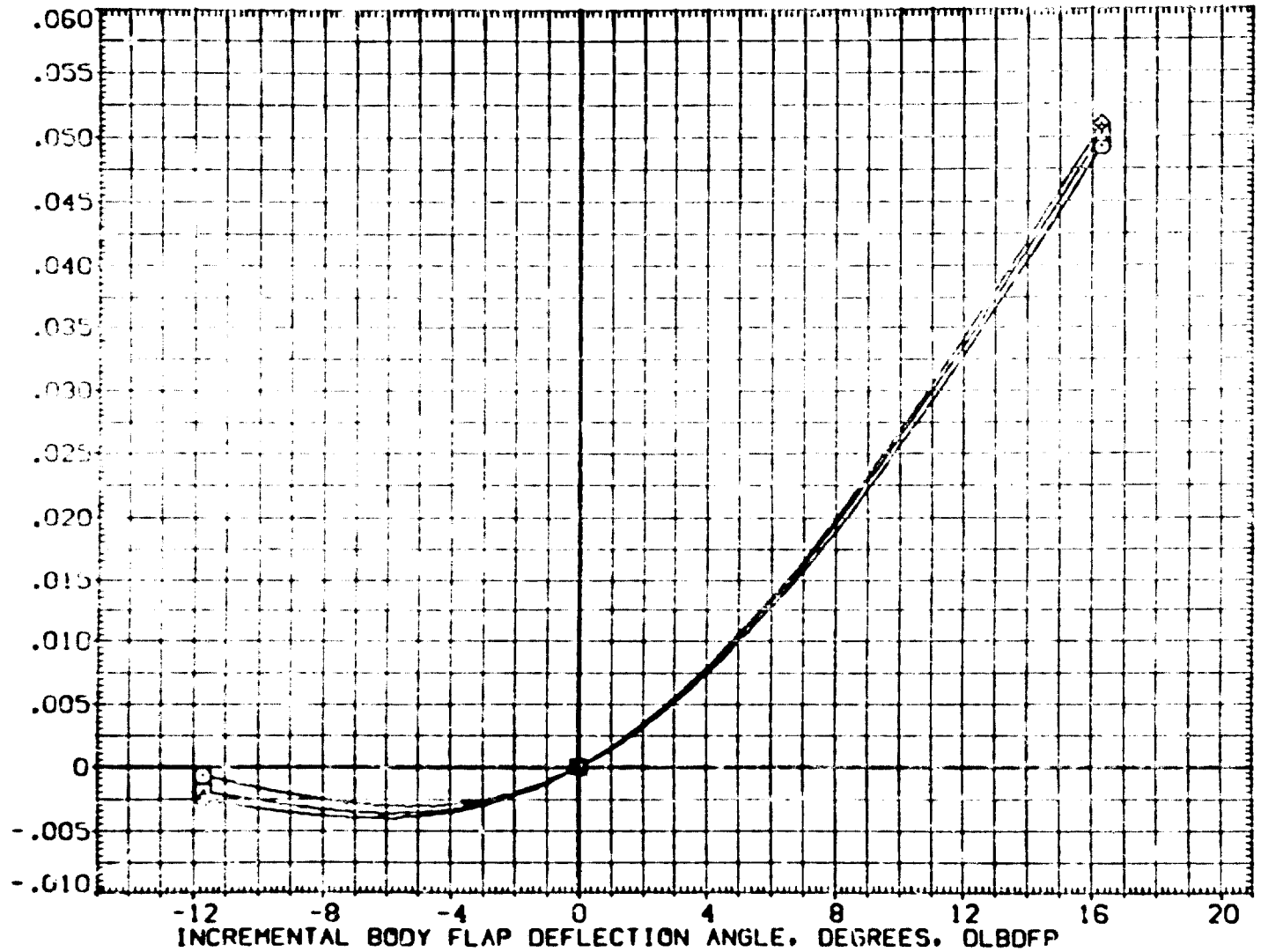


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

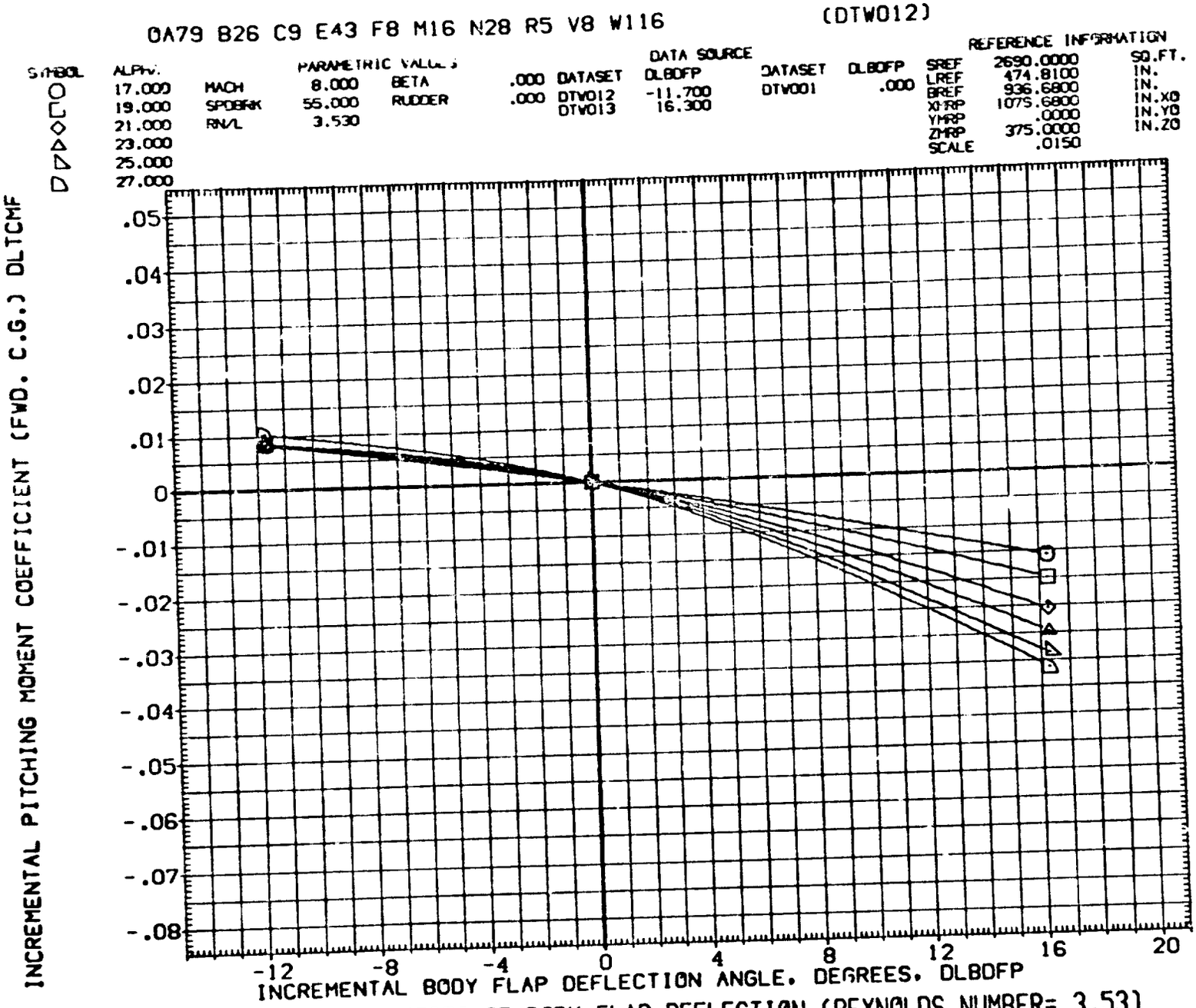


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION	
○	29.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF 2690.0000	SQ.FT.
□	31.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF 474.8100	IN.
◇	33.000	RN/L	3.530			DTW013	16.300			BREF 936.6600	IN.
△	35.000									XMRP 1076.6600	IN.XB
▷	37.000									YMRP .0000	IN.YB
	39.000									ZMRP 375.0000	IN.ZB
										SCALE .0150	

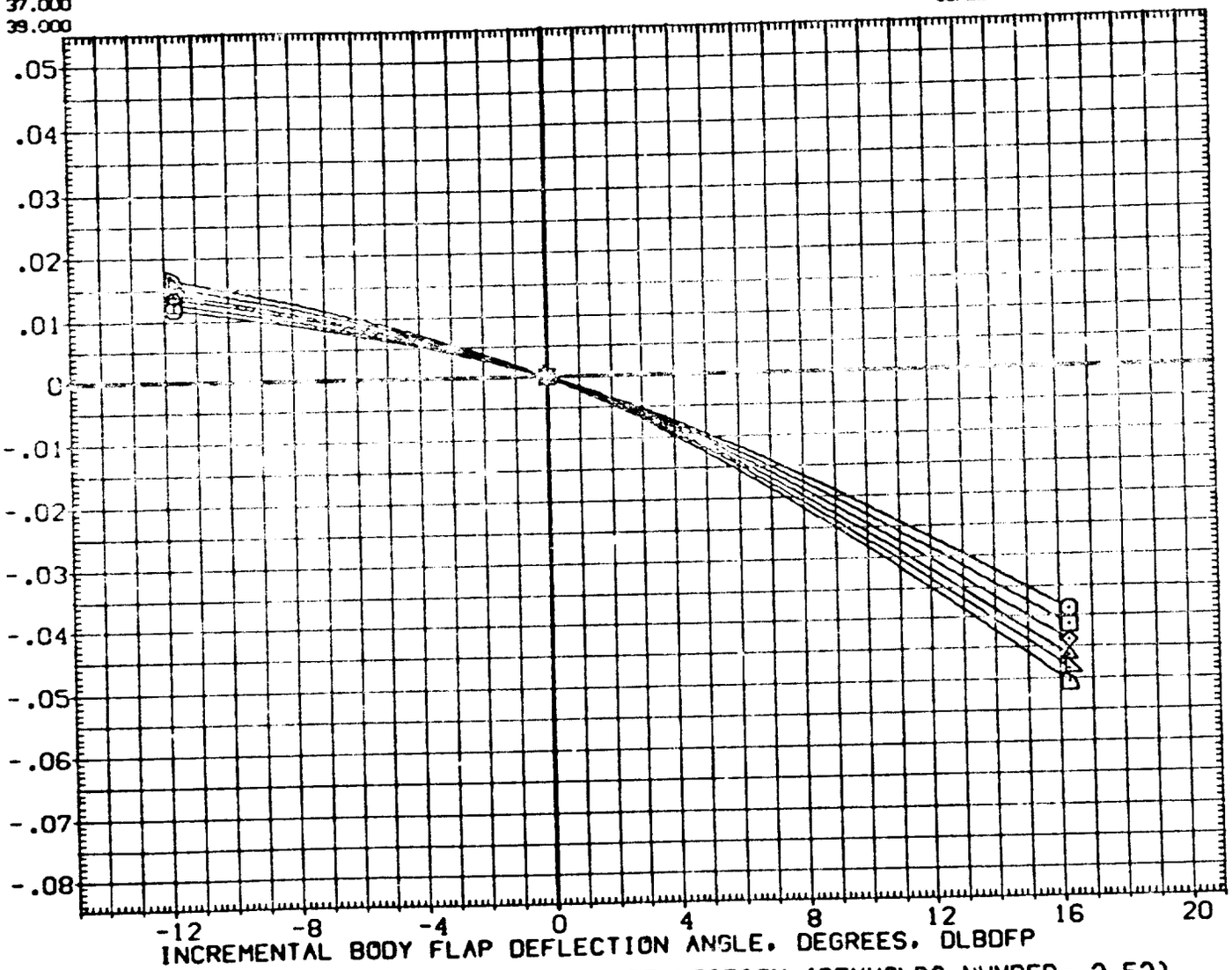


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6800	IN.XB
										YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

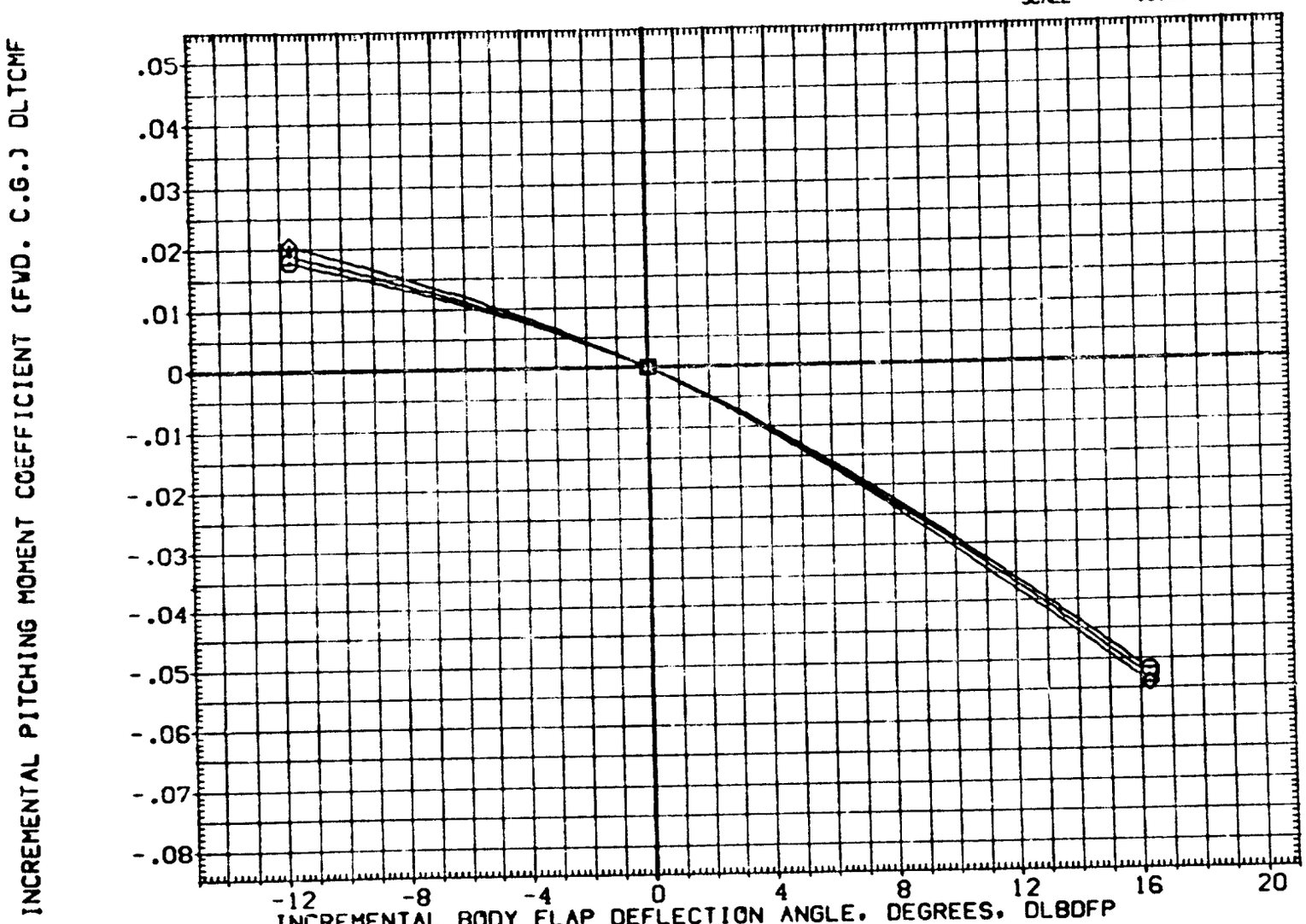


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.XB
▽	25.000									YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

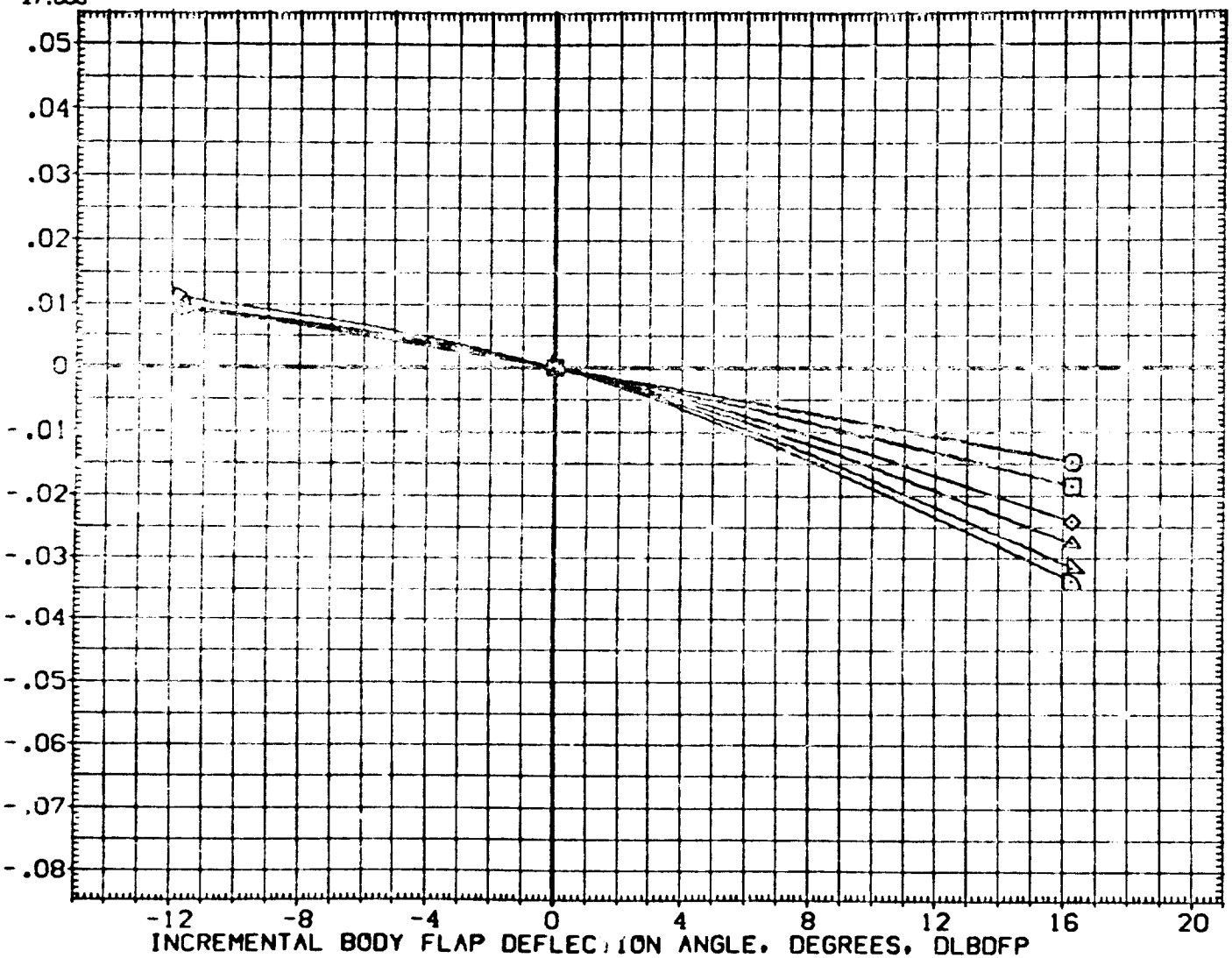


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

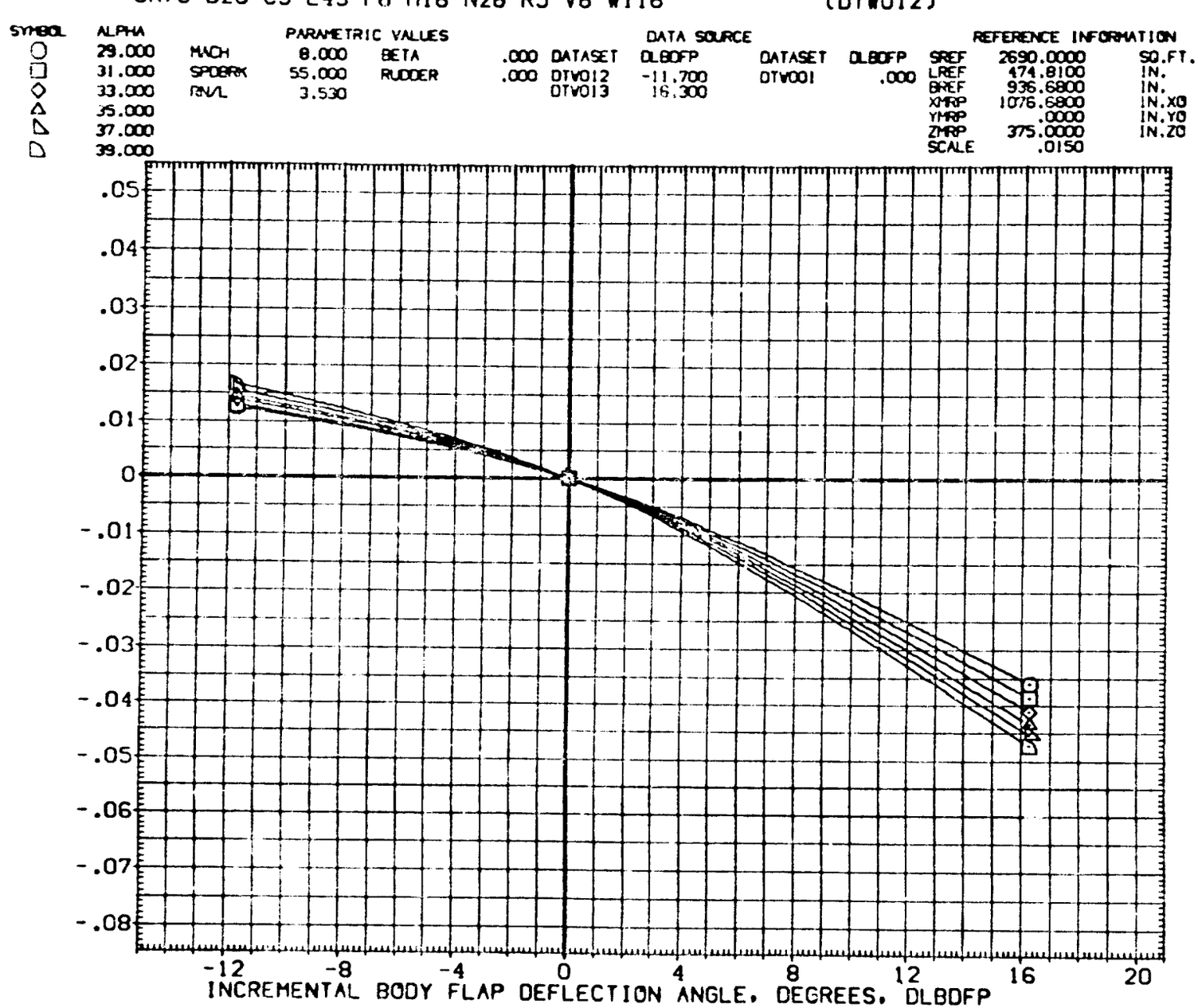


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6000	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

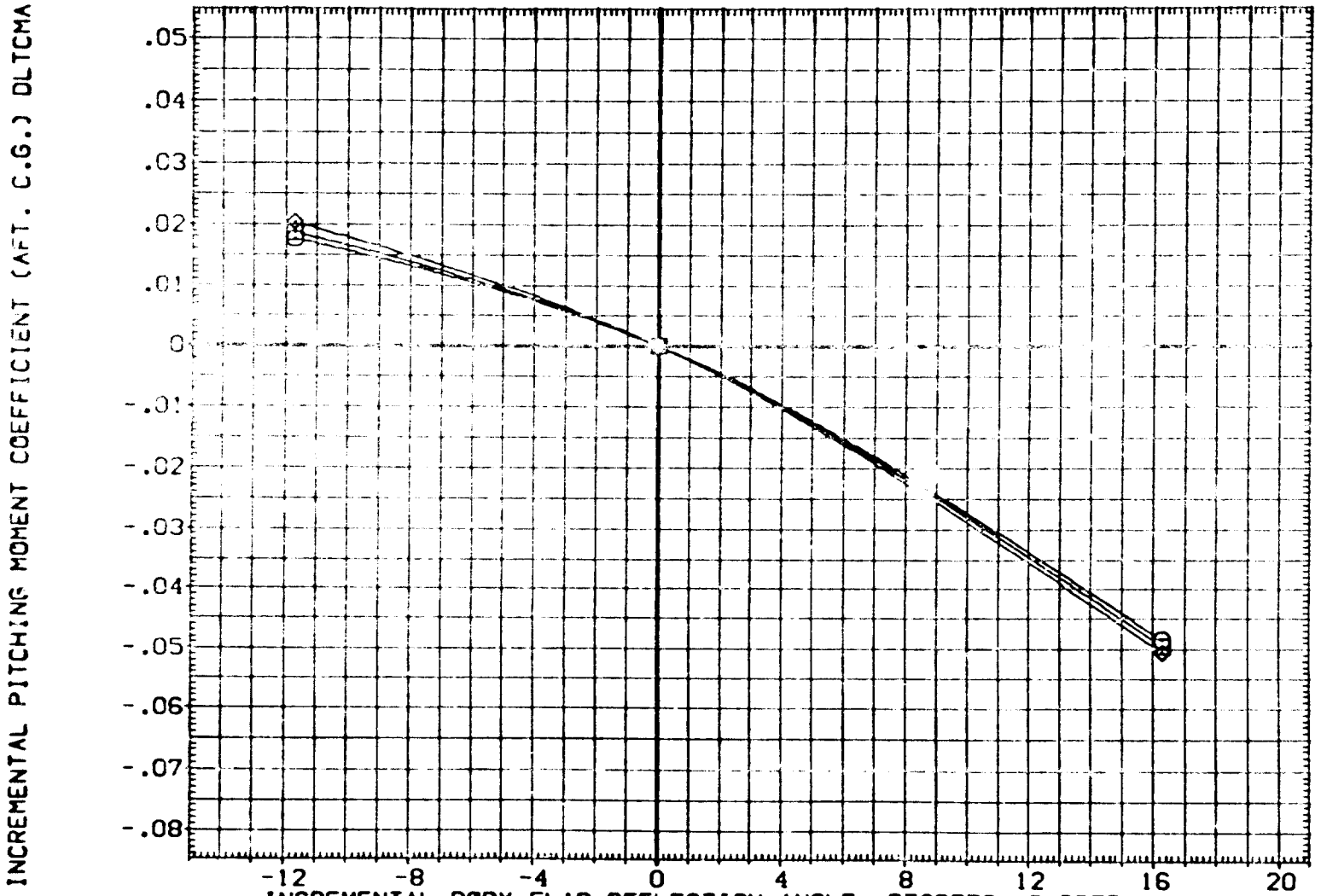


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

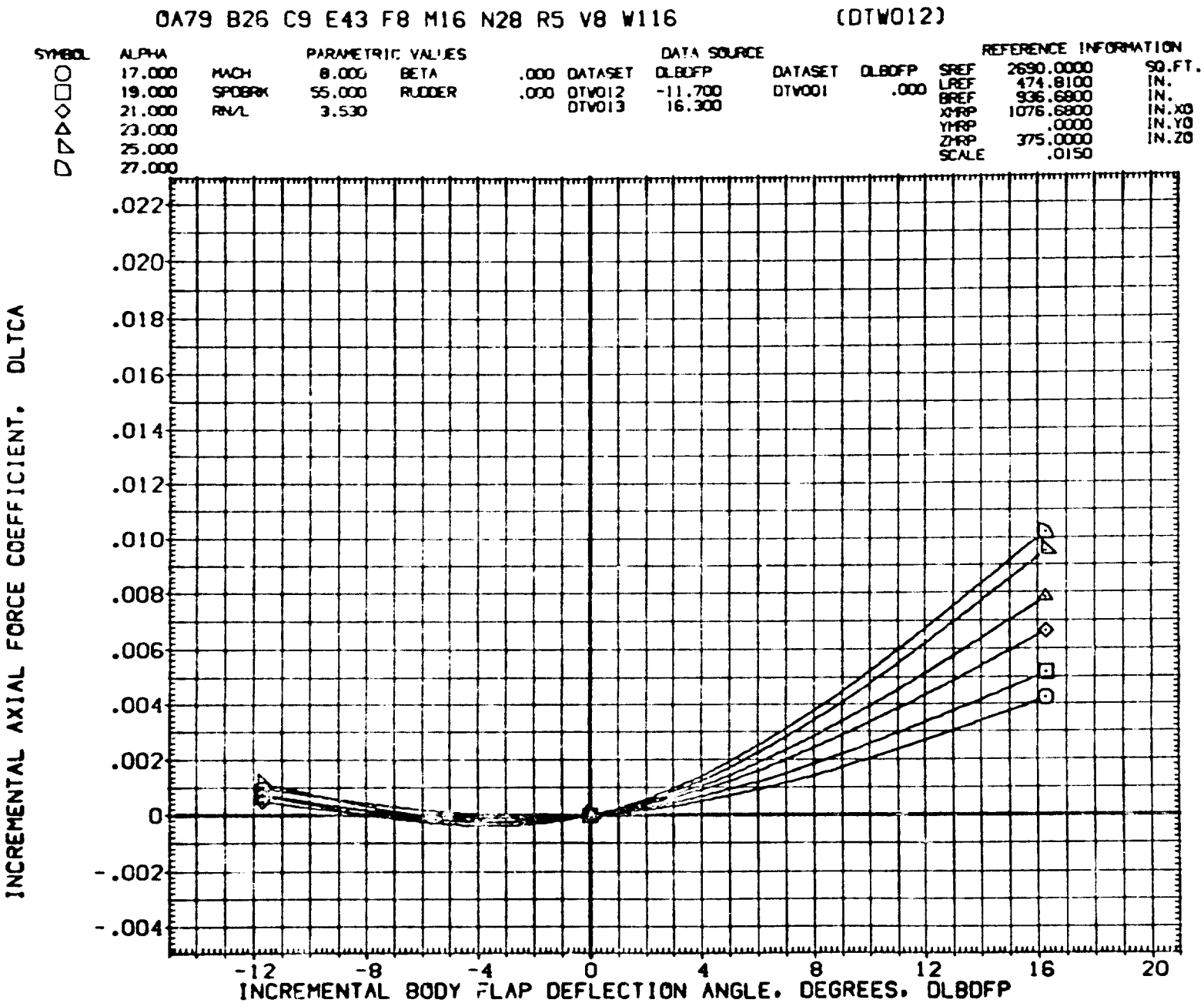


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP
□	31.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000
◇	33.000	RN/L	3.530			DTW013	16.300		
△	35.000								
▽	37.000								
	39.000								

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

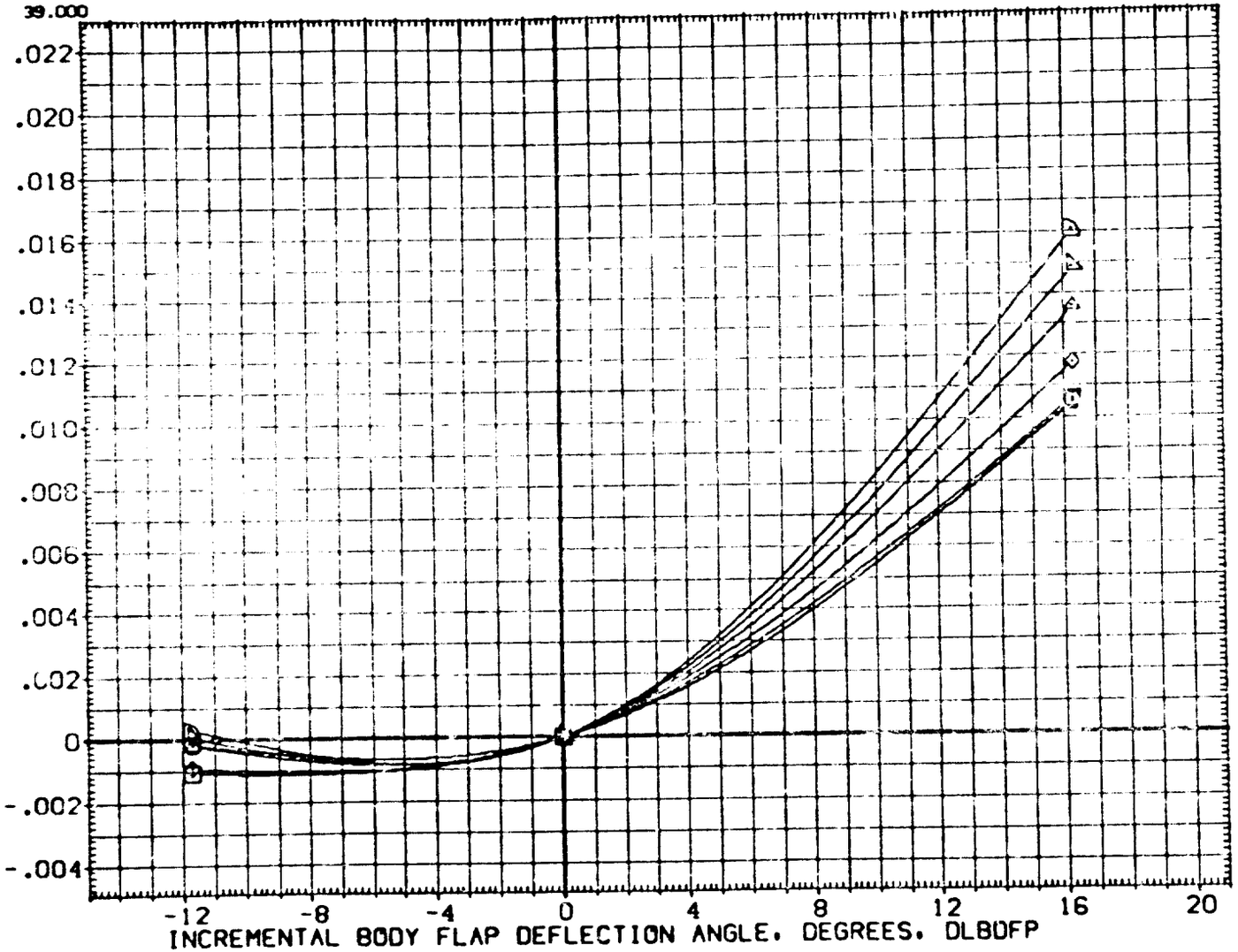


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	
□	43.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	
◇	45.000	RN/L	3.530			DTW013	16.300			

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

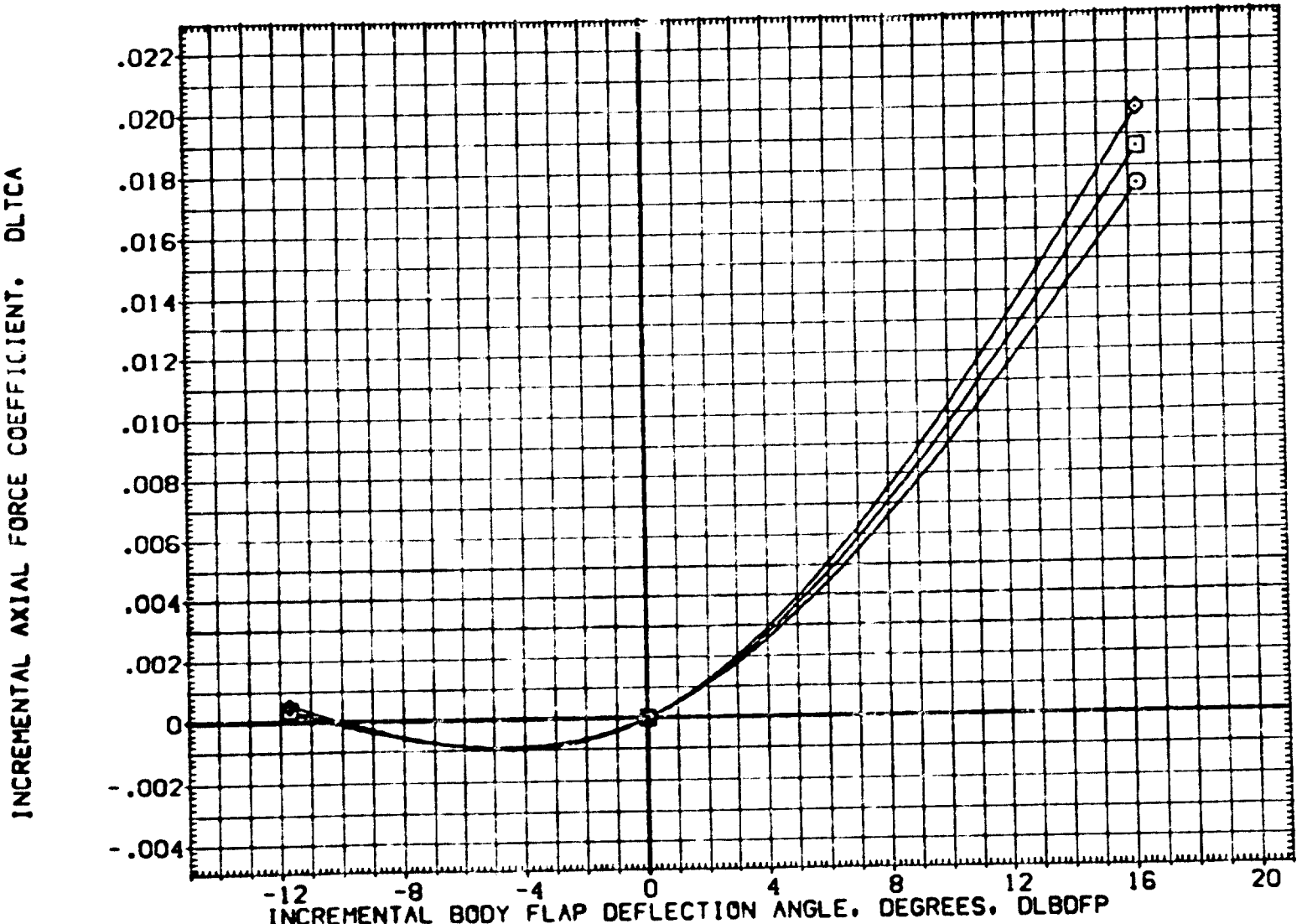


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

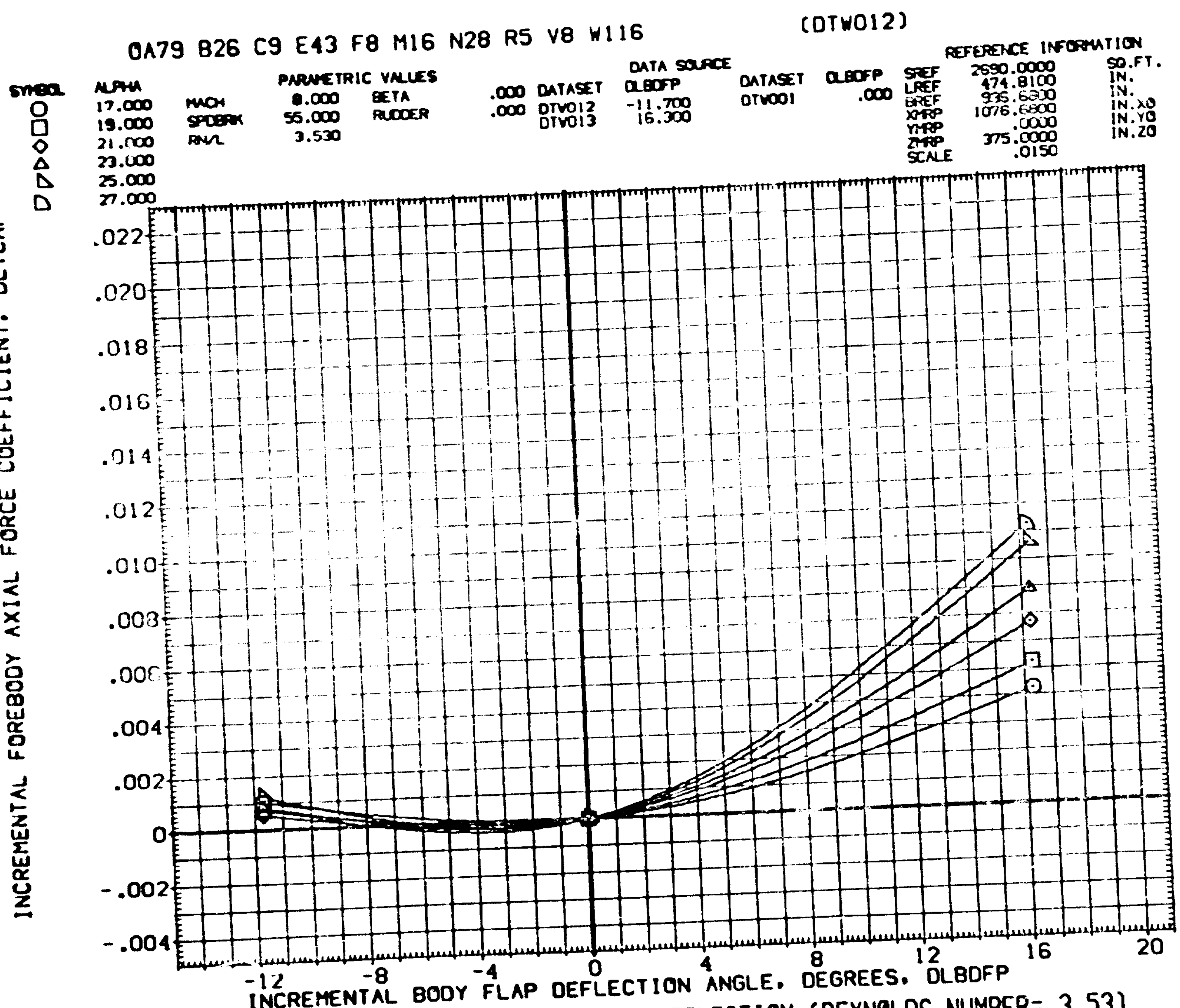


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

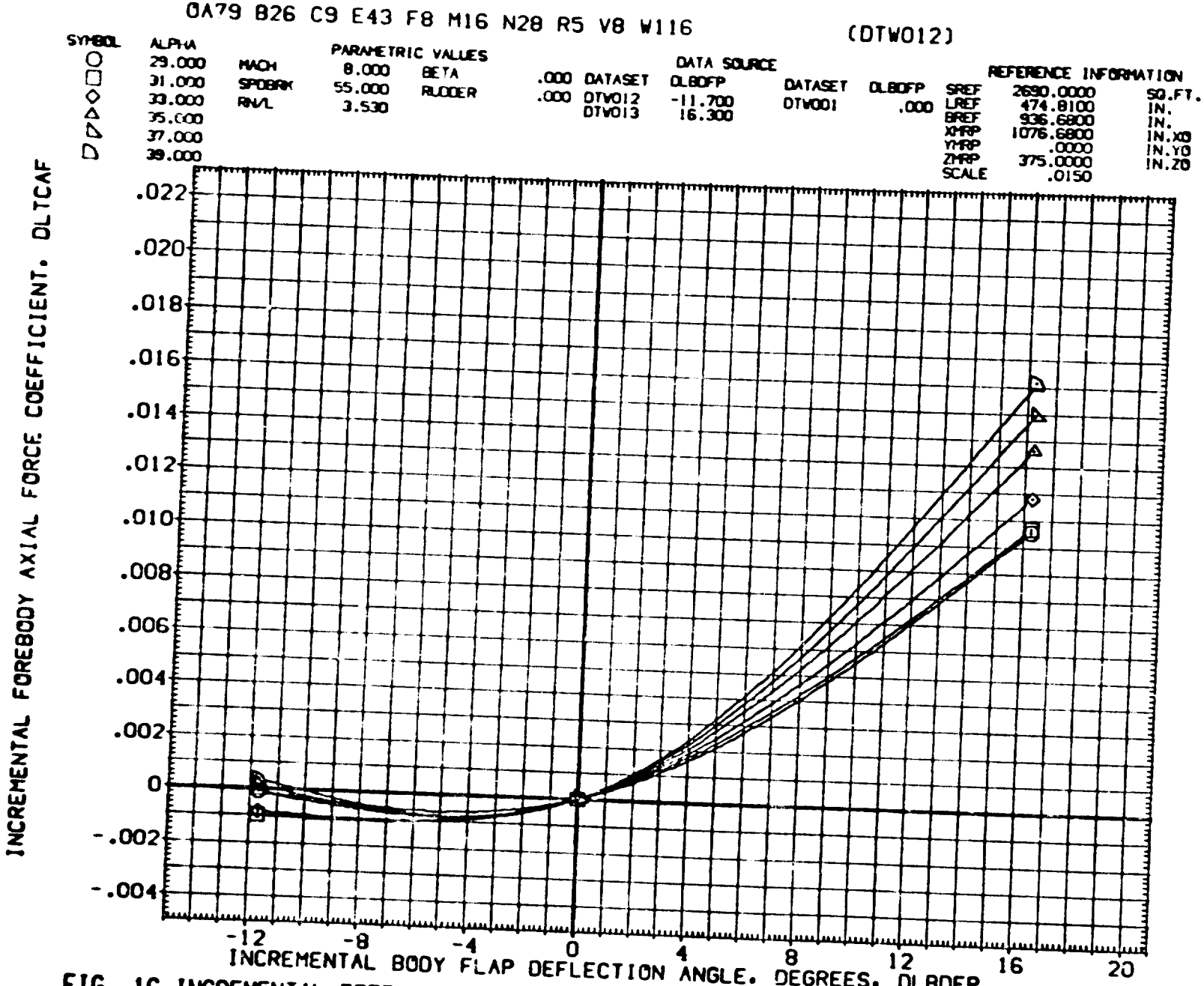


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPDBRK	55.000	RUDDER	.000	DTV012	-11.700	DTV001	.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTV013	16.300			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

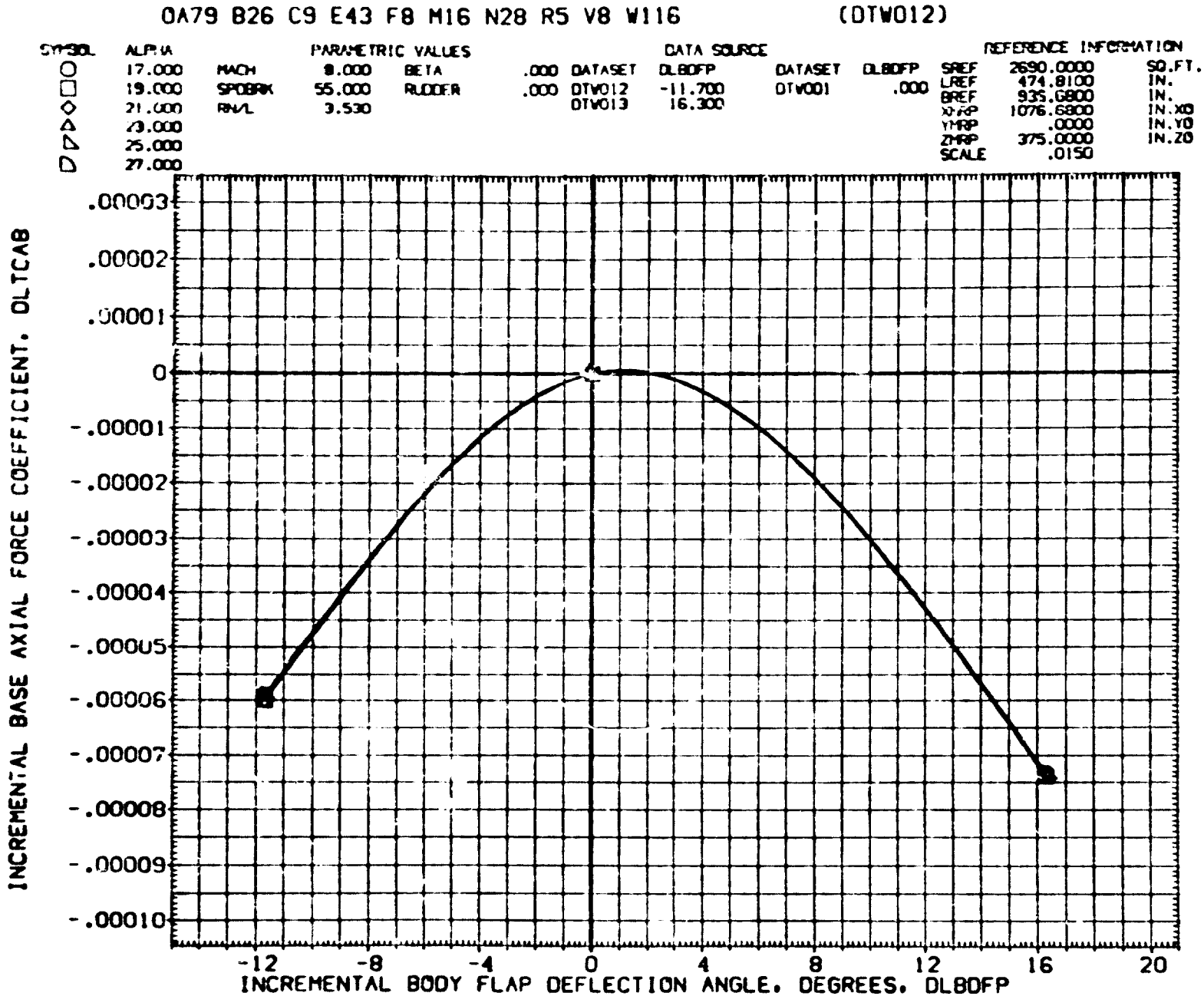


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA
○	29.000
□	31.000
◇	33.000
△	35.000
▽	37.000
▽	39.000

PARAMETRIC VALUES

MACH	8.000	BETA	.000	
SPOBRK	55.000	RUDDER	.000	
RN/L	3.530			

DATA SOURCE

DATASET	DLBDFP	DATASET	DLBDFP	
DTW012	-11.700	DTW001	.000	
DTW013	16.300			

REFERENCE INFORMATION

SREF	2630.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1079.3800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	0150	

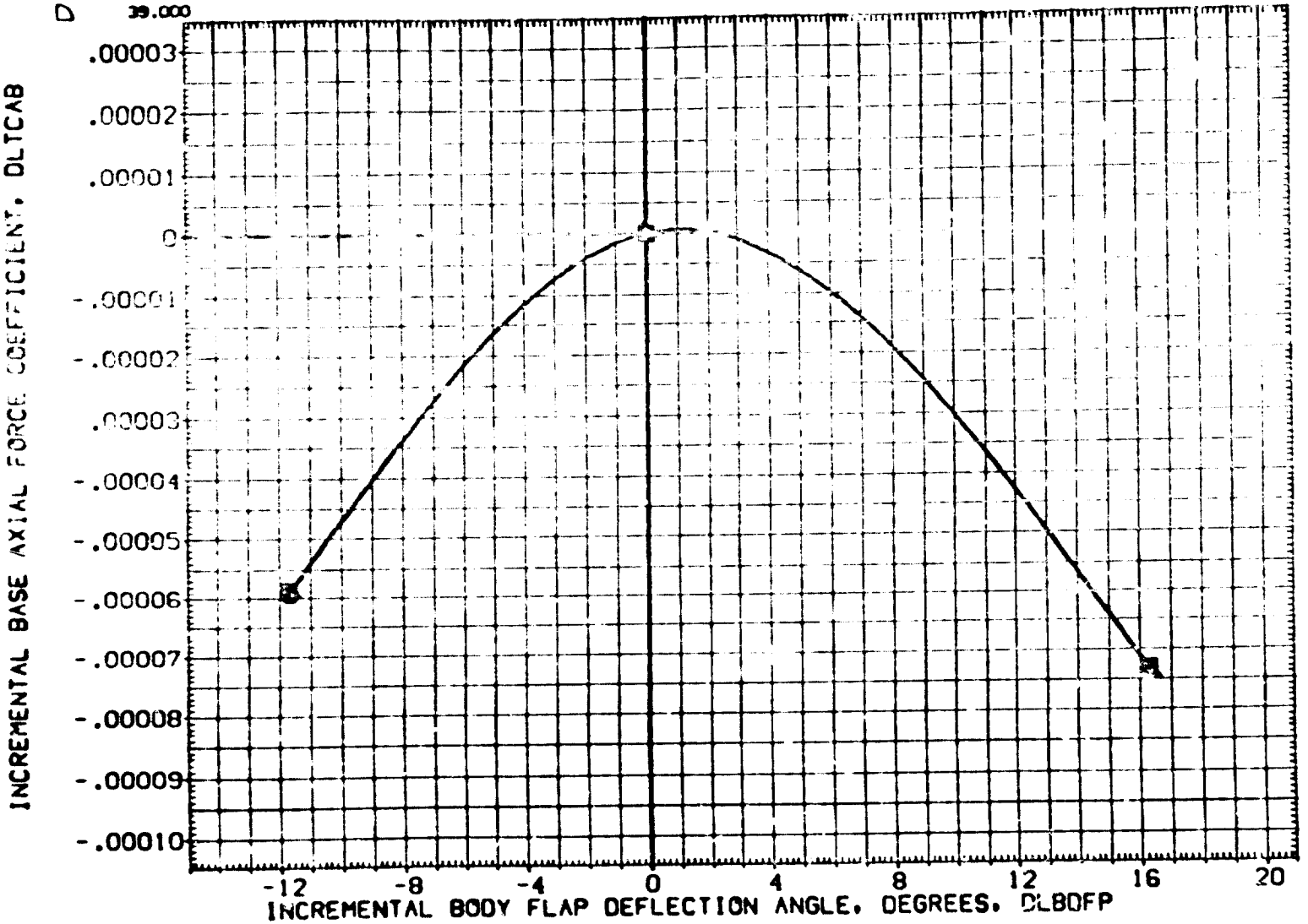


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

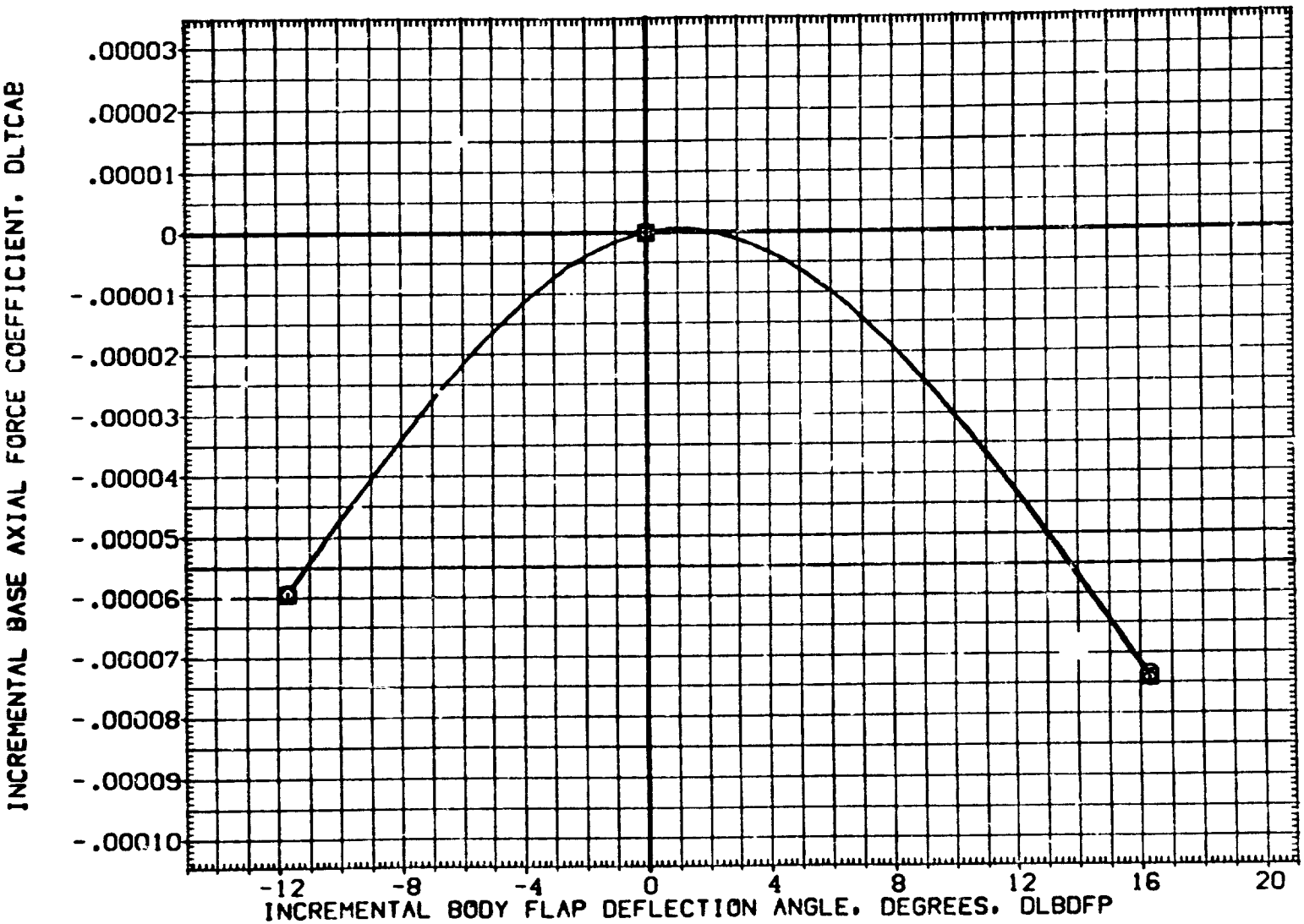


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	21.000	RN/L	3.530			DTW013	16.300			BREF	936.6800	IN.
△	23.000									XMRP	1076.6800	IN.XB
▱	25.000									YMRP	.0000	IN.YB
▱	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

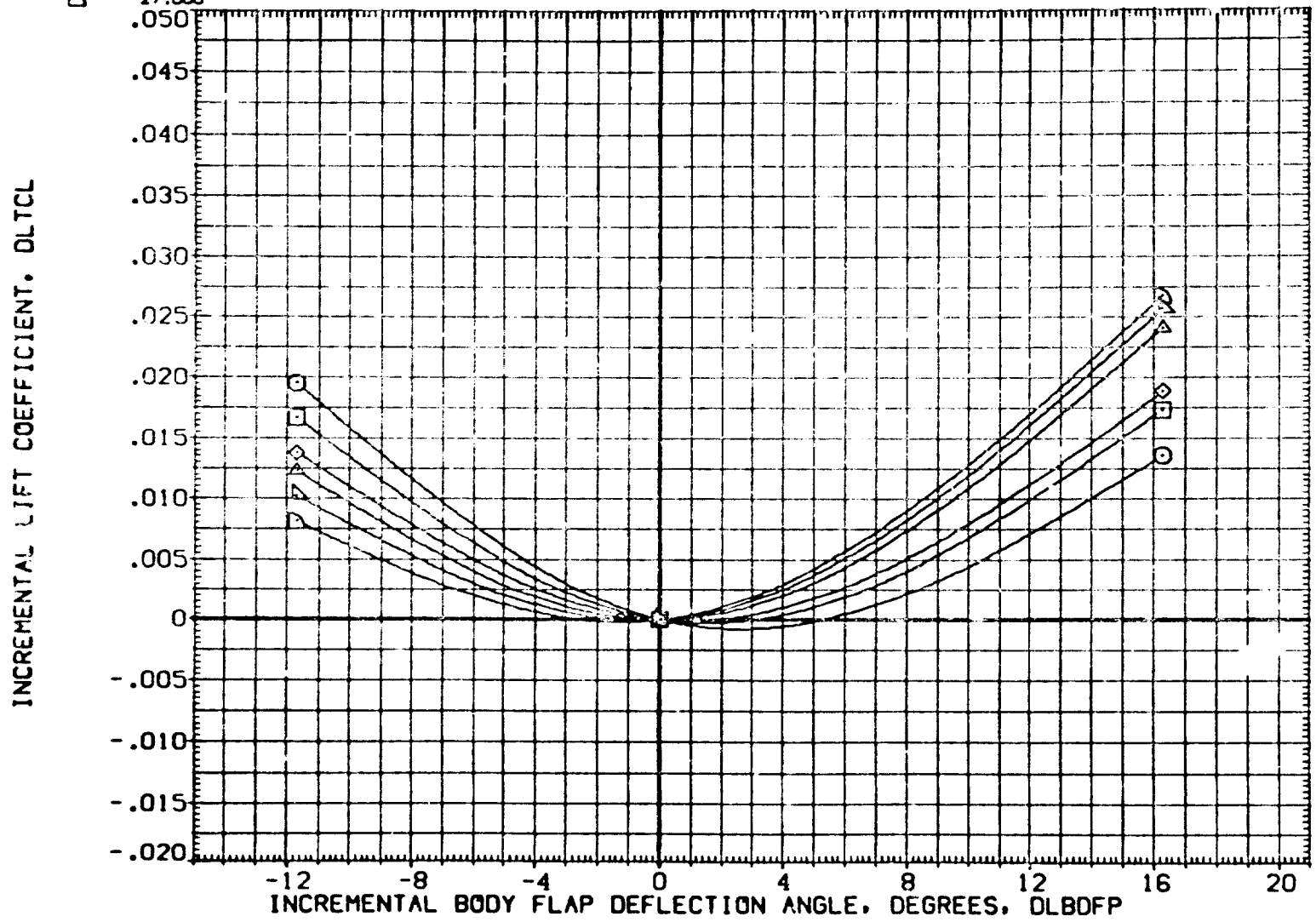


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

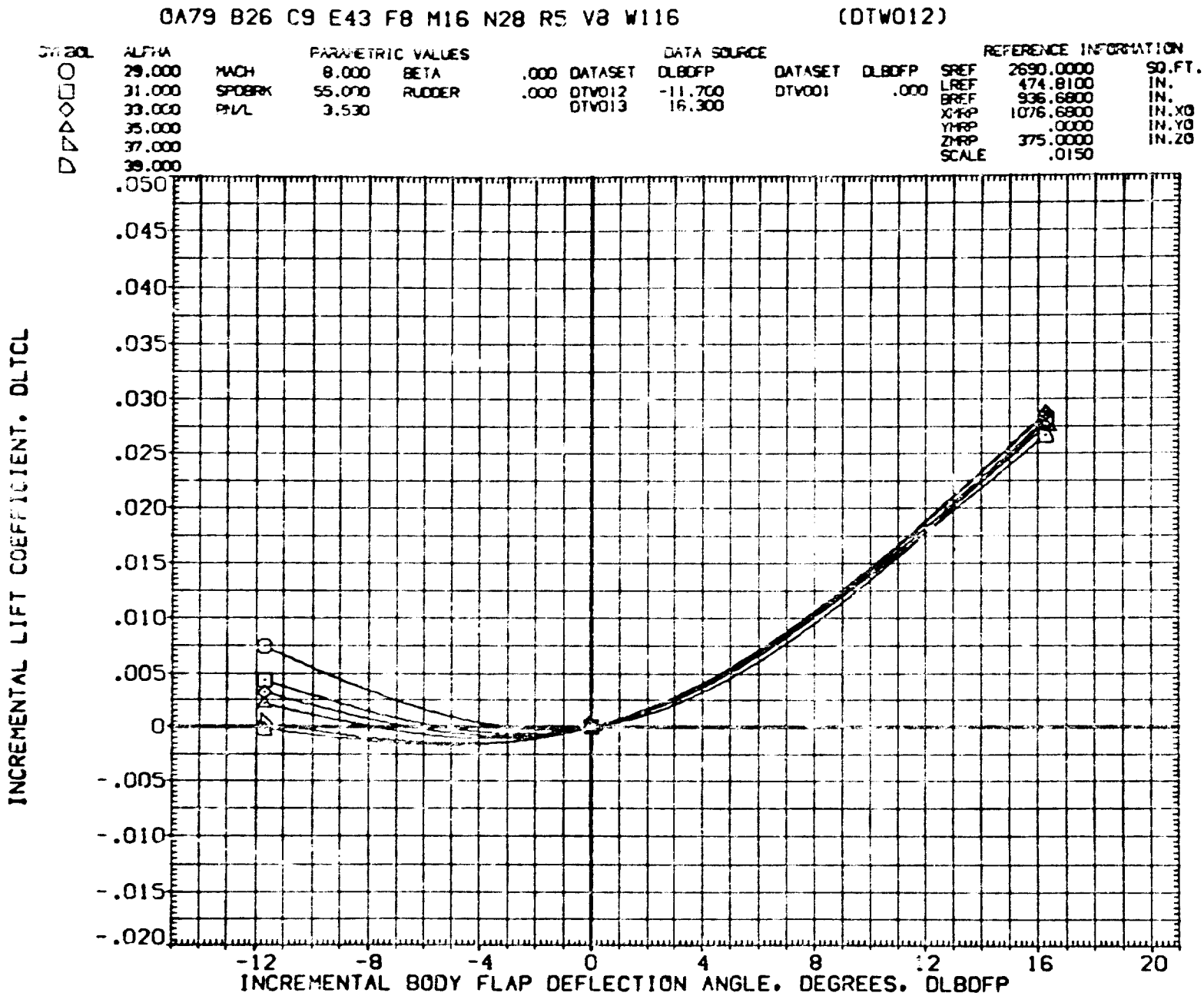


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	RNVL	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6800	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

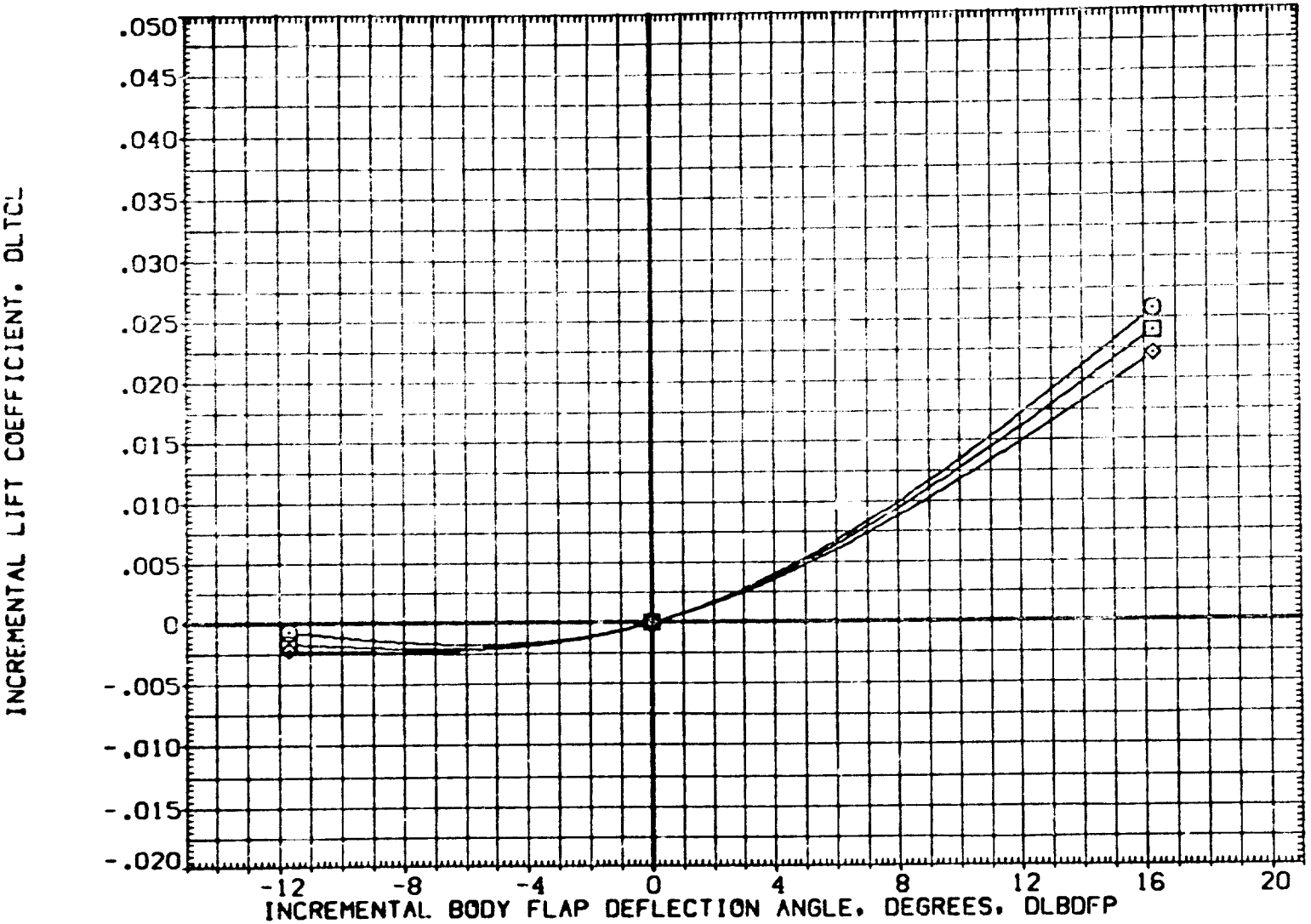


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

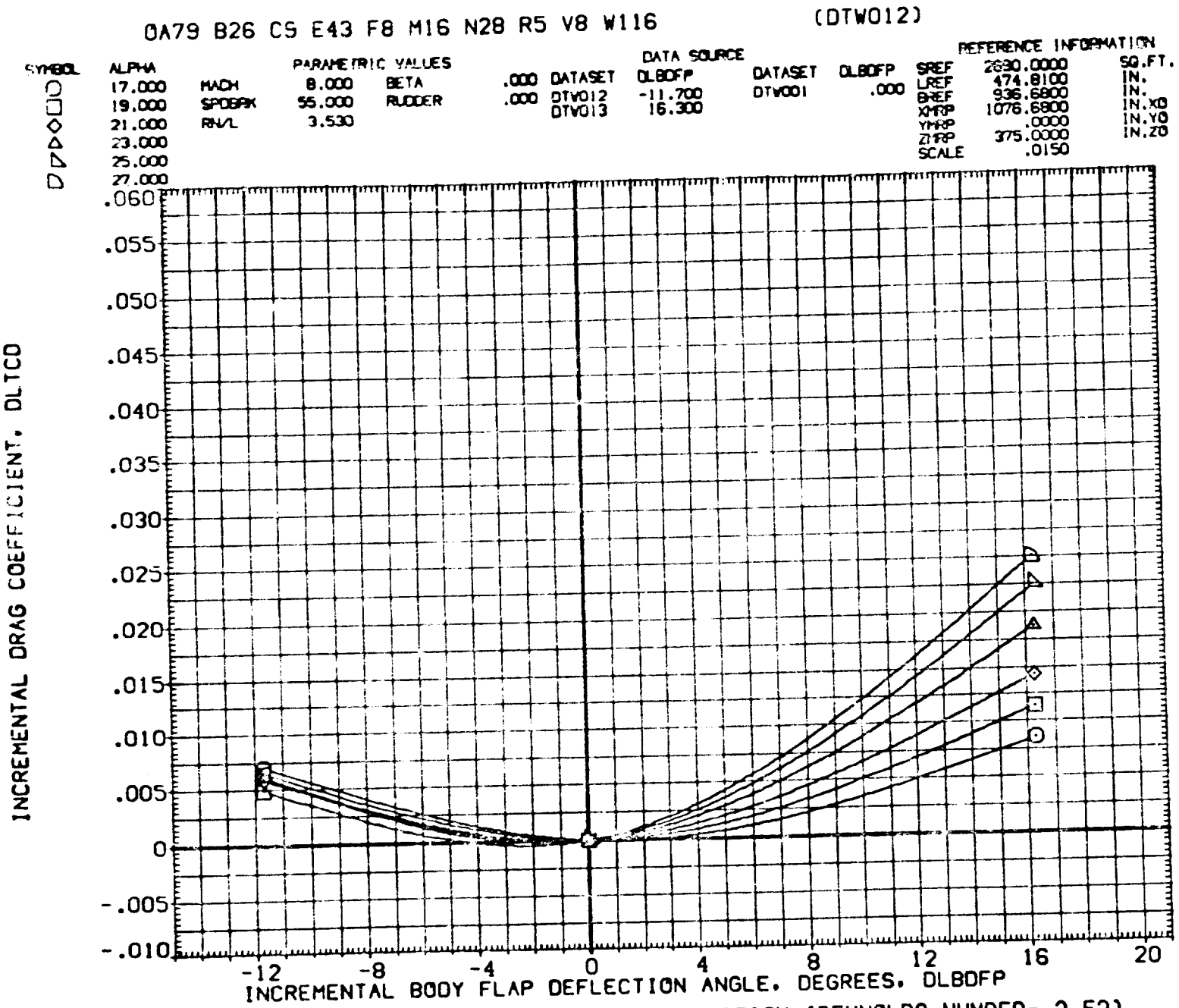


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	SPDBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	33.000	RNYL	3.530			DTW013	16.300			BREF	936.6800	IN.
△	35.000									XMRP	1076.6800	IN.X0
▷	37.000									YMRP	.0000	IN.Y0
▽	39.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

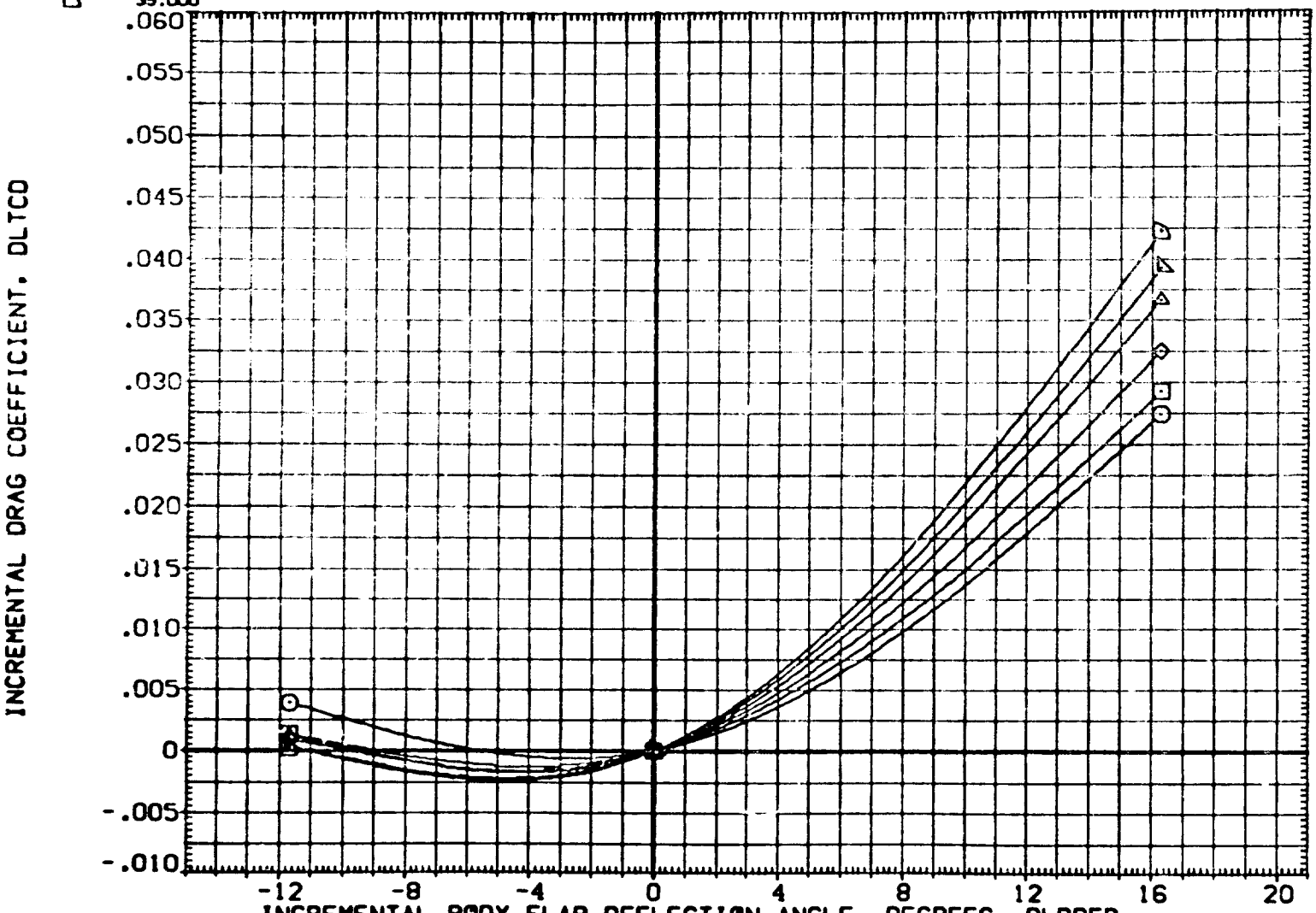


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	SPOBRK	55.000	RUDDER	.000	DTW012	-11.700	DTW001	.000	LREF	474.8100	IN.
◇	45.000	REYL	3.530			DTW013	16.300			BREF	936.6800	IN.
										XMRP	1076.6900	IN.X0
										YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

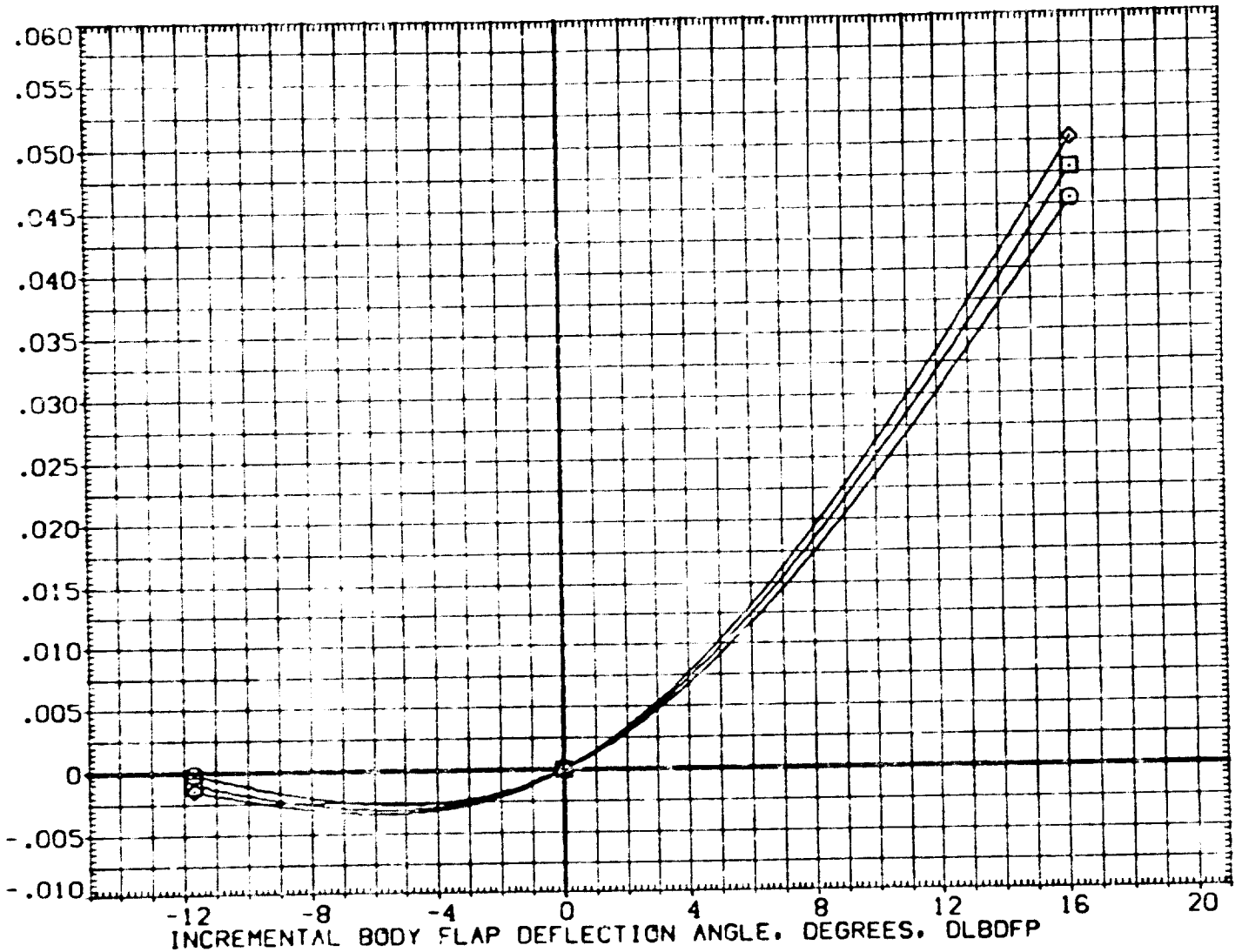


FIG. 16 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 3.53)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV048)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(CTV040)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(CTV049)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

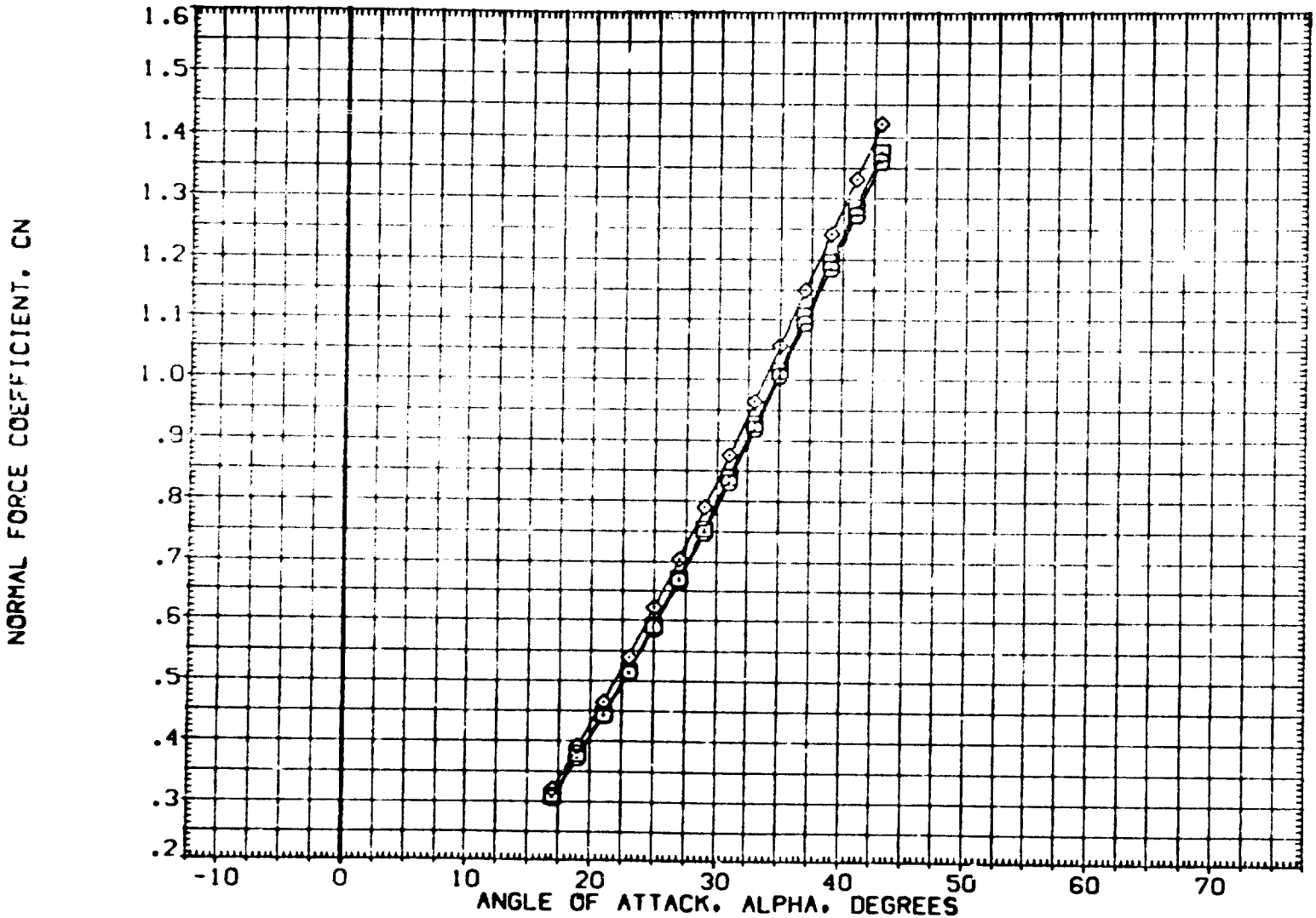


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BUFLAP	M∞/L
(CTV048)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(CTV040)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(CTV049)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	906.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

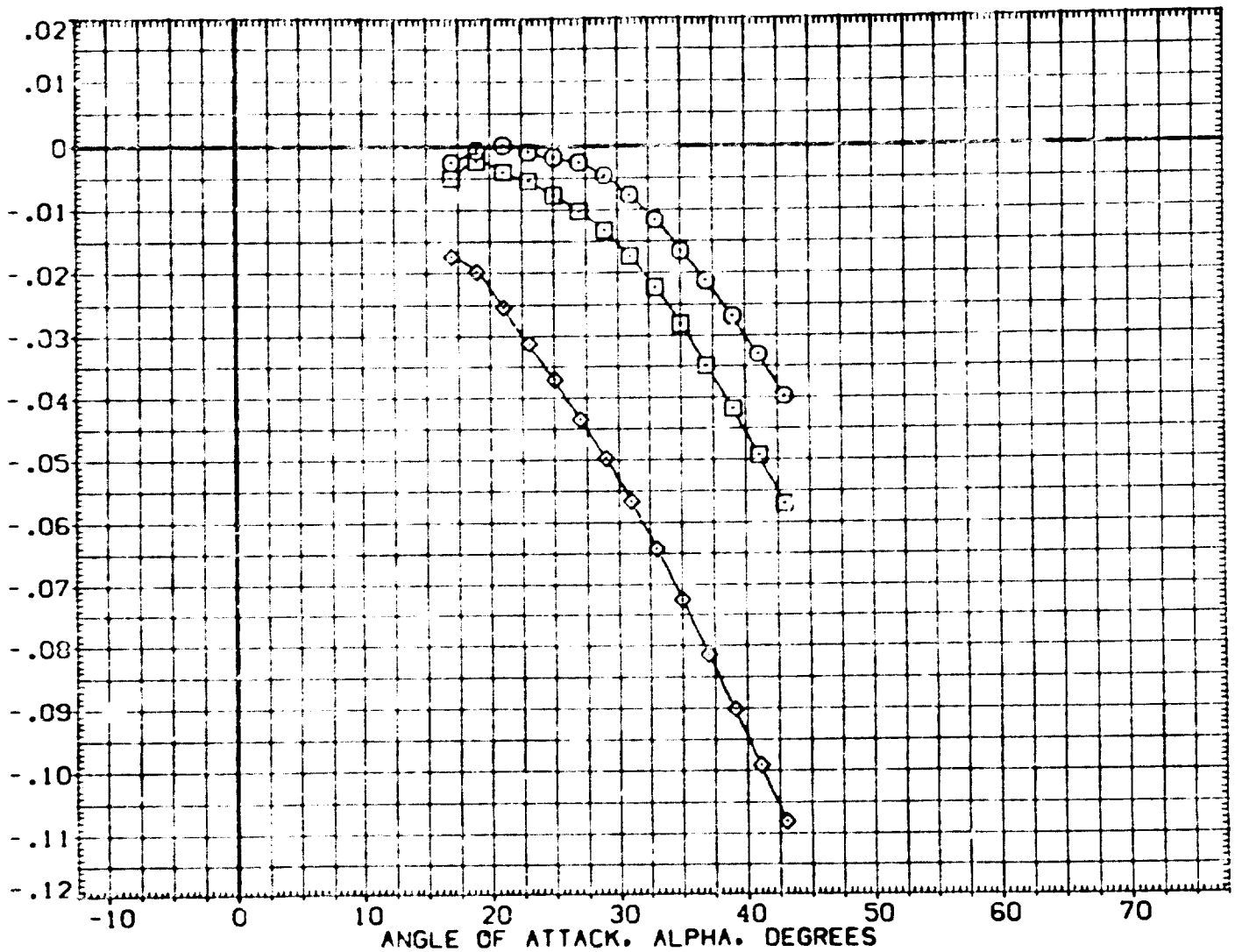


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RN/L
(CTV018)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(CTV040)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(CTV019)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

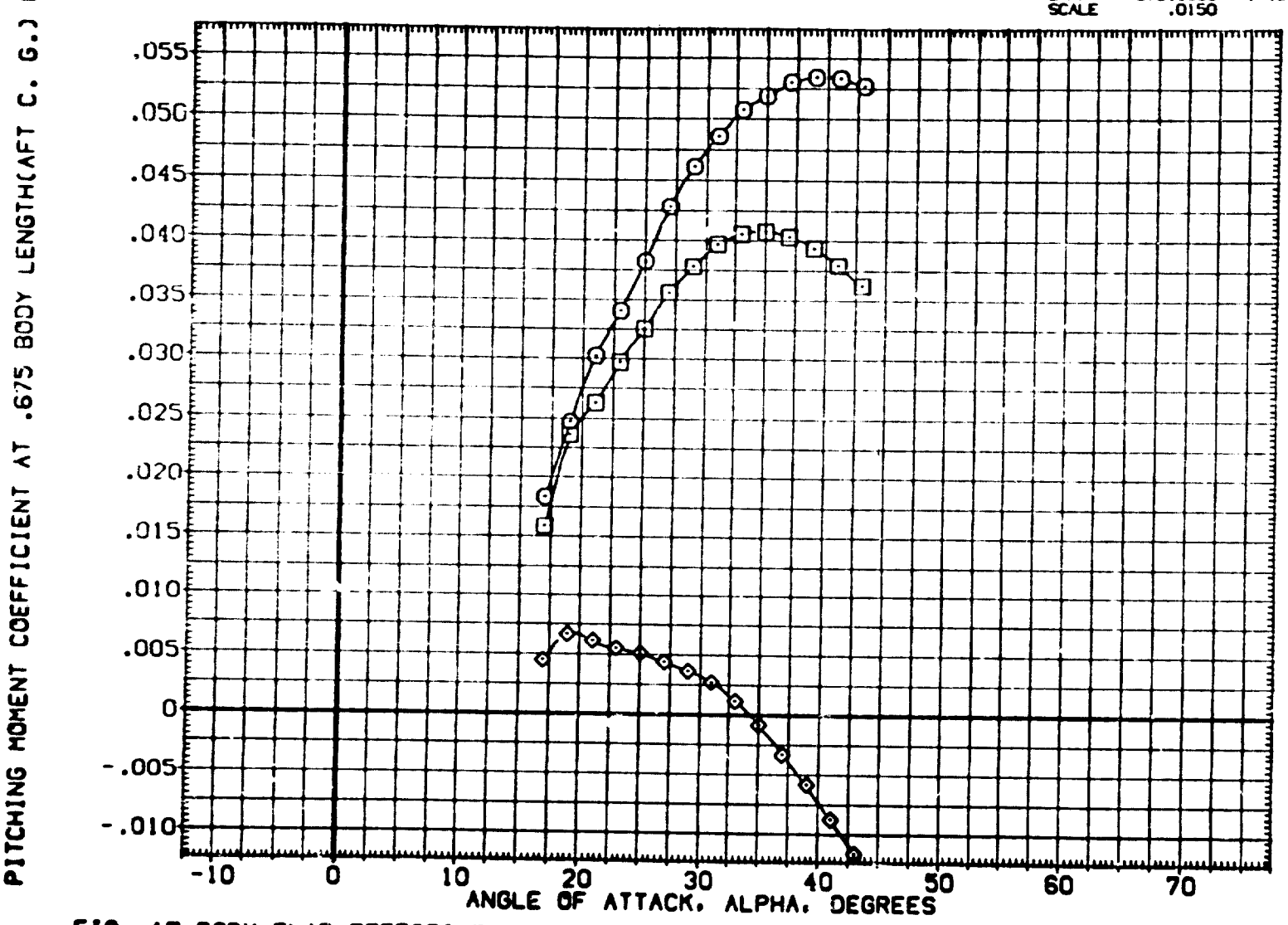


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(CTV018)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W16	-11.700	1.860
(CTV040)	○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W16	.000	1.860
(CTV019)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 W16	16.300	1.860

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

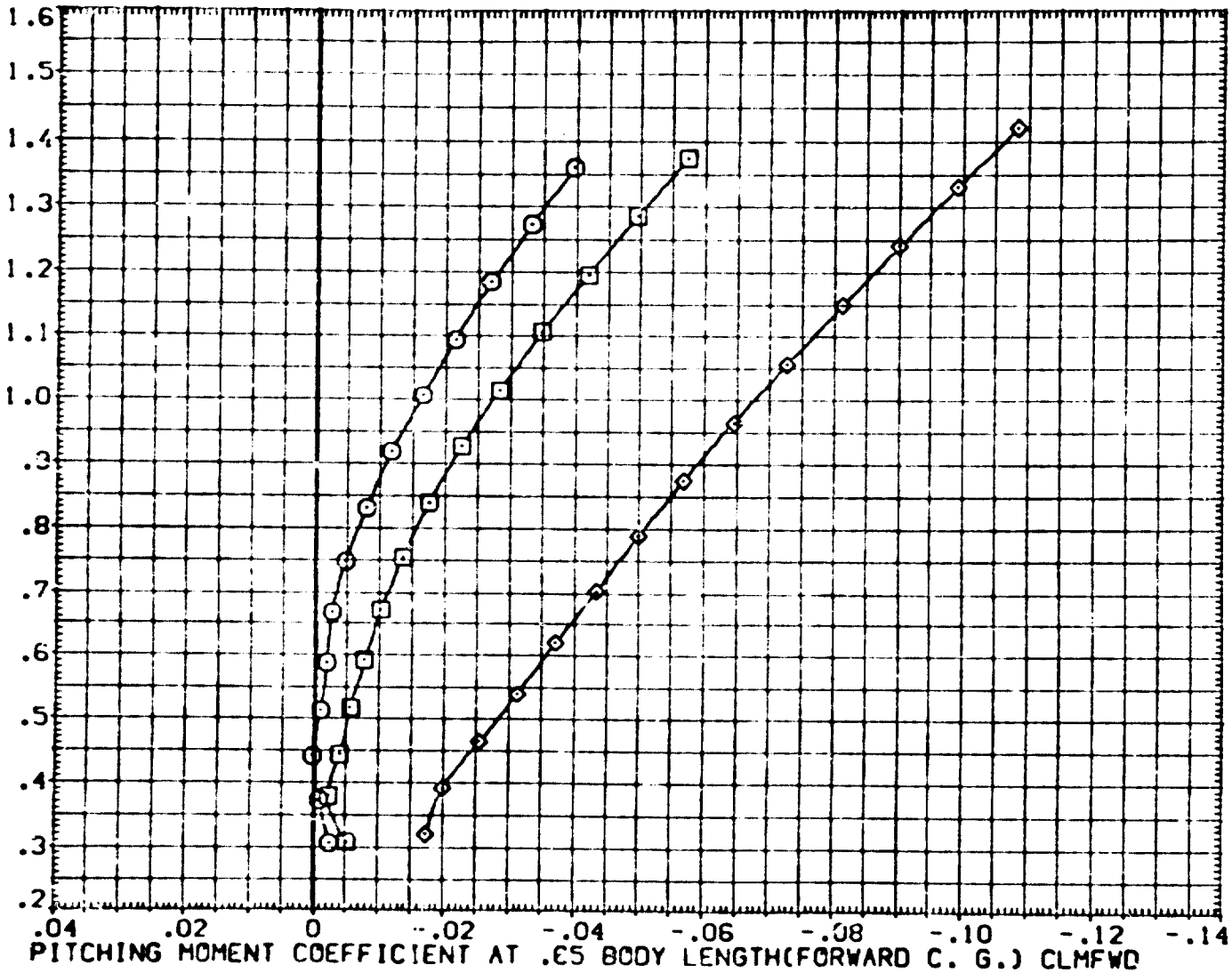


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BUFLAP	RNVL
(CTV048)	○	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	-11.700	1.860
(CTV040)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	.000	1.860
(CTV049)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	776.6800	IN.XG
YMRP	.0000	IN.YG
ZMRP	375.0000	IN.ZG
SCALE	.0150	

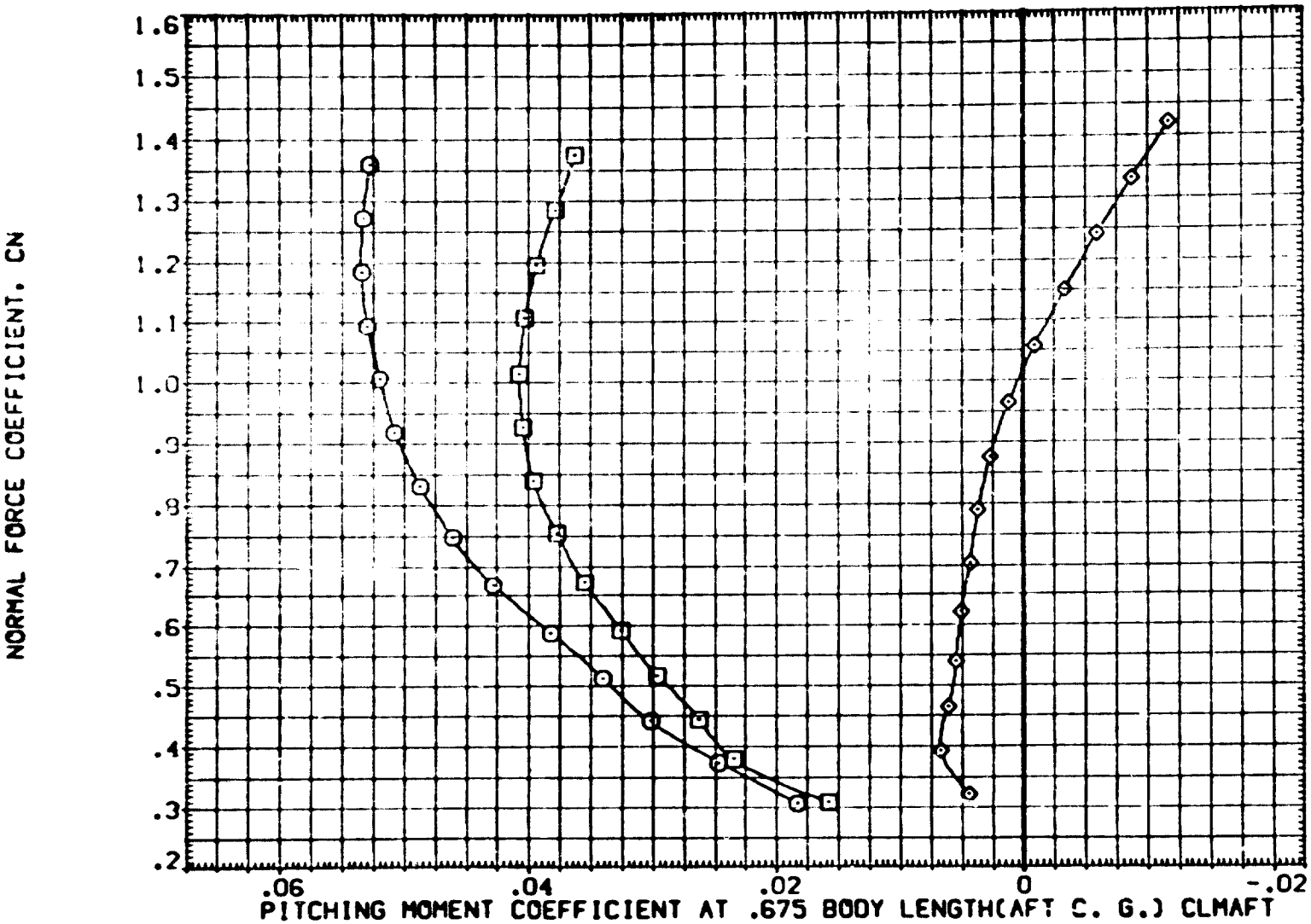


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV018)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV040)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV049)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

BDFLAP	RN/L
-11.700	1.860
.000	1.860
16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

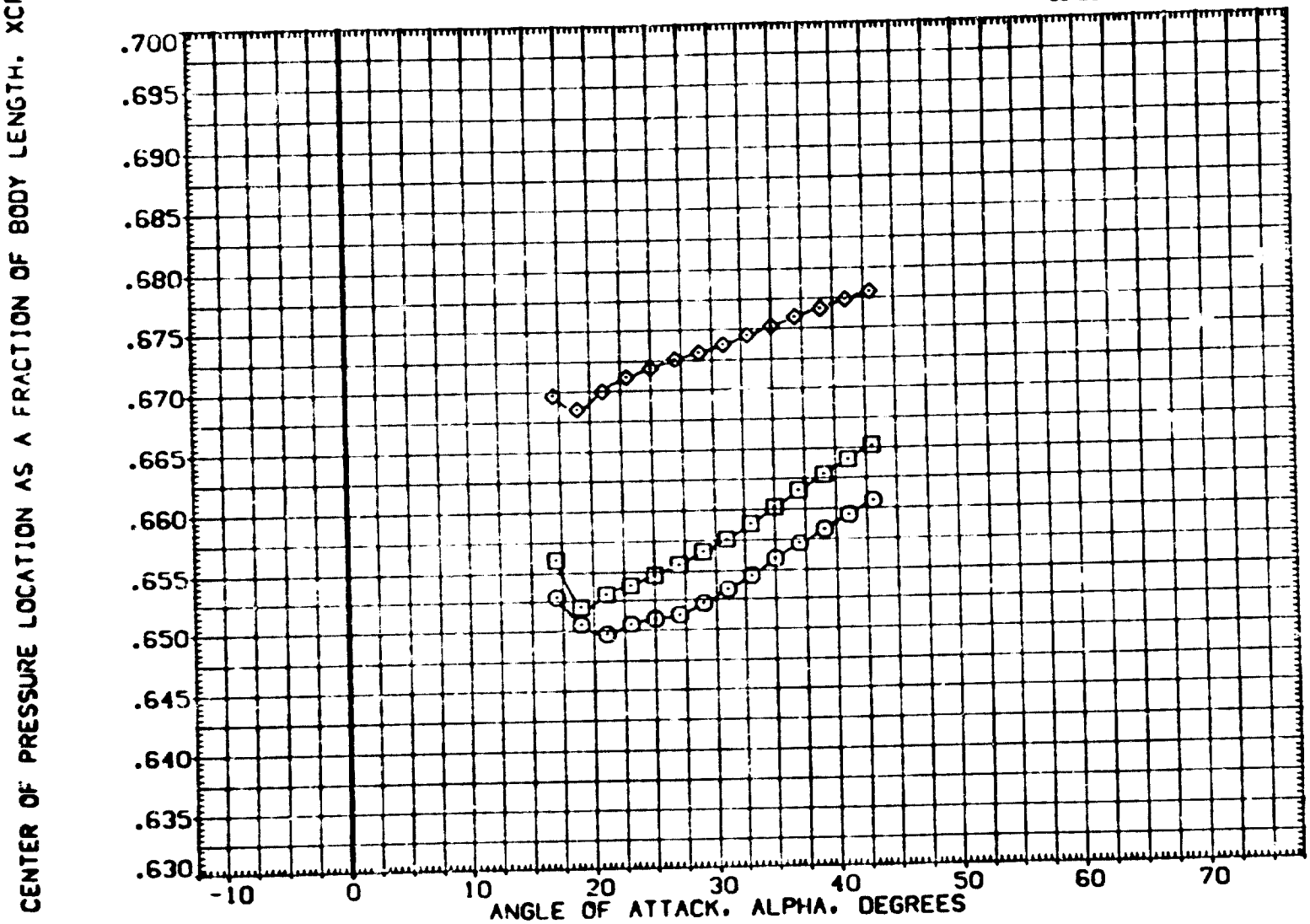


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV048) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(CTV040) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(CTV049) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X8
YMRP	.0000	IN.Y8
ZMRP	375.0000	IN.Z8
SCALE	.0150	

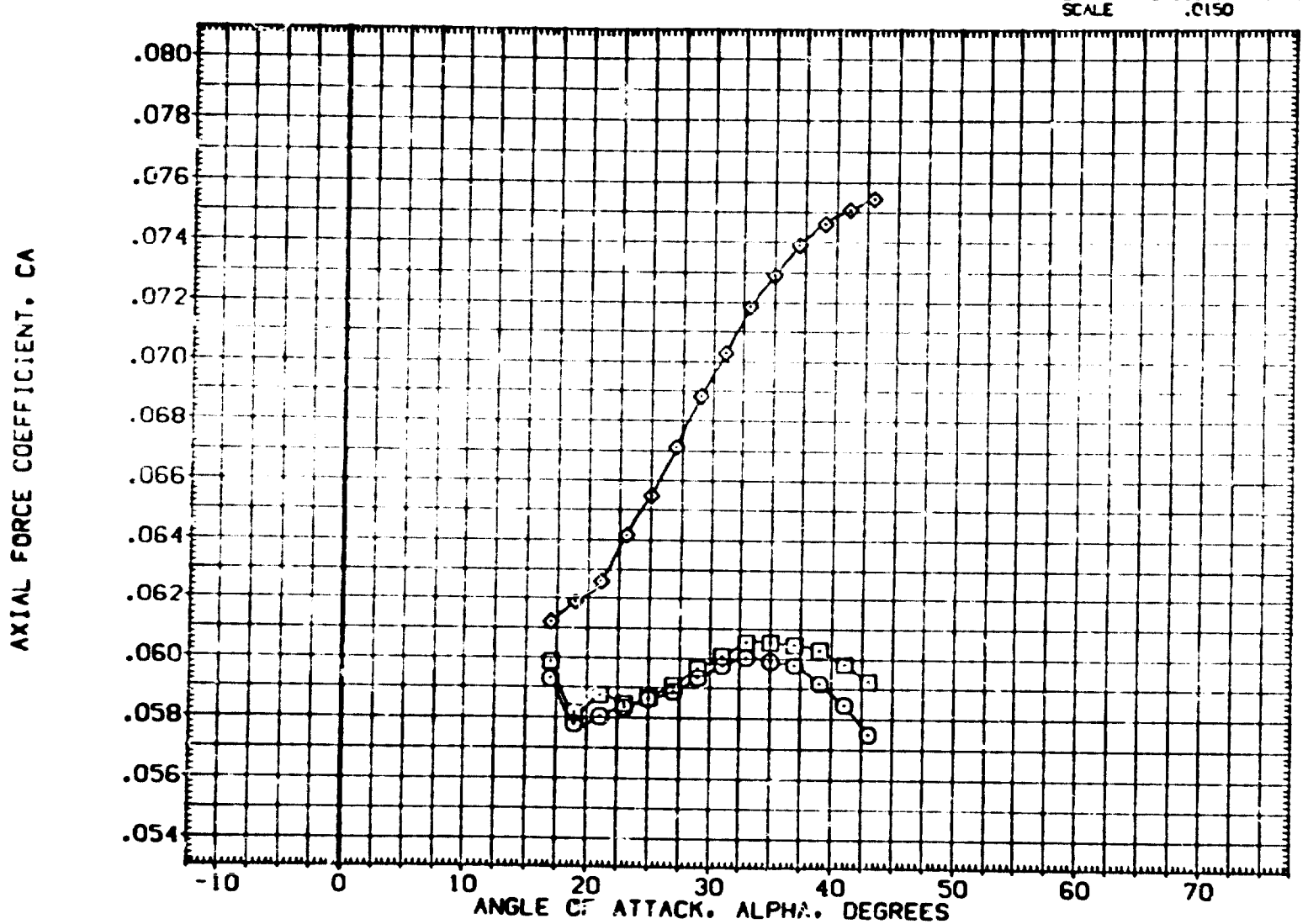


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV048)	○	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	-11.700	1.860
(CTV040)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	.000	1.860
(CTV049)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

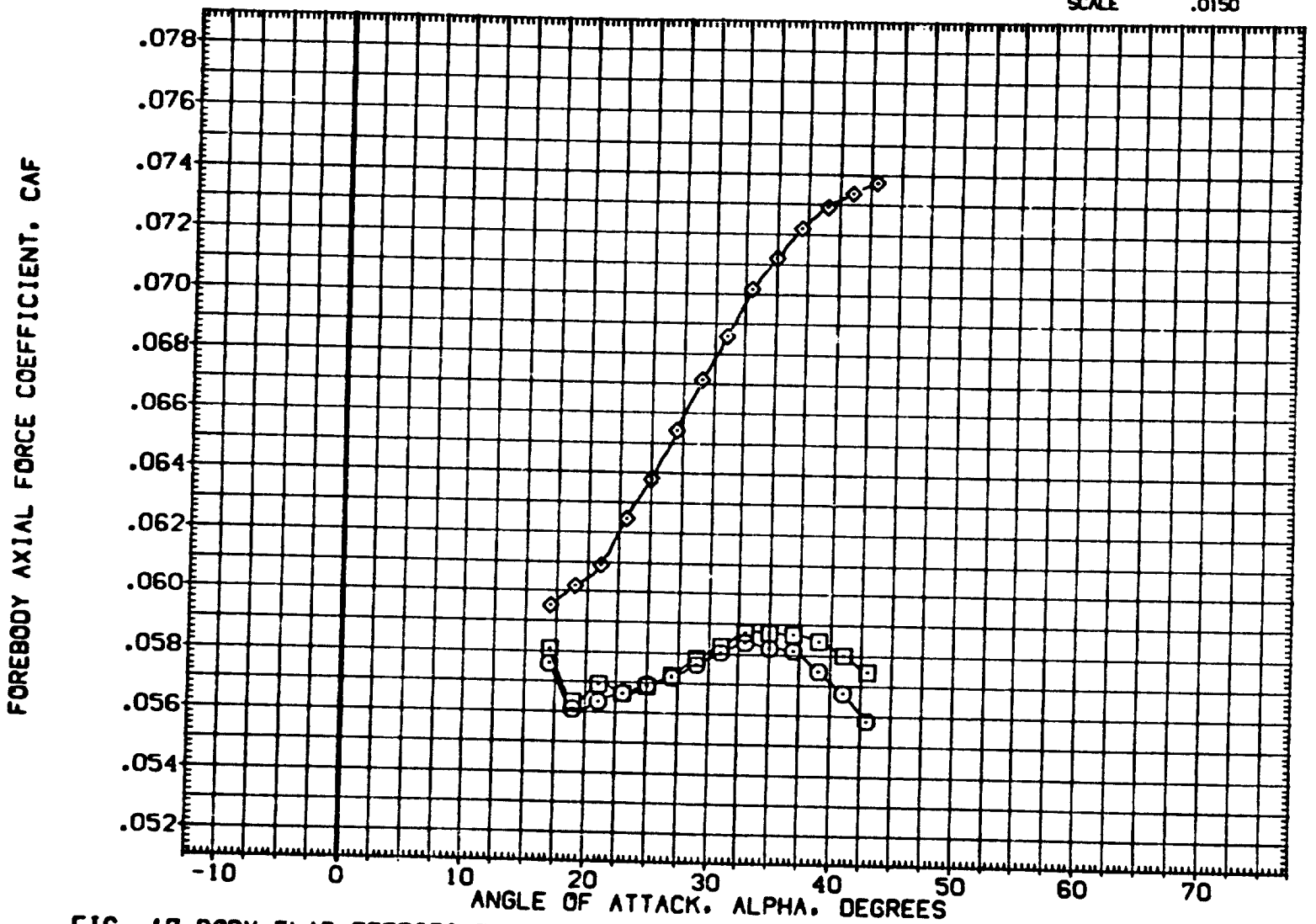


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV041)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV040)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV049)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

BDFLAP	RN/L
-11.700	1.860
.000	1.860
16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

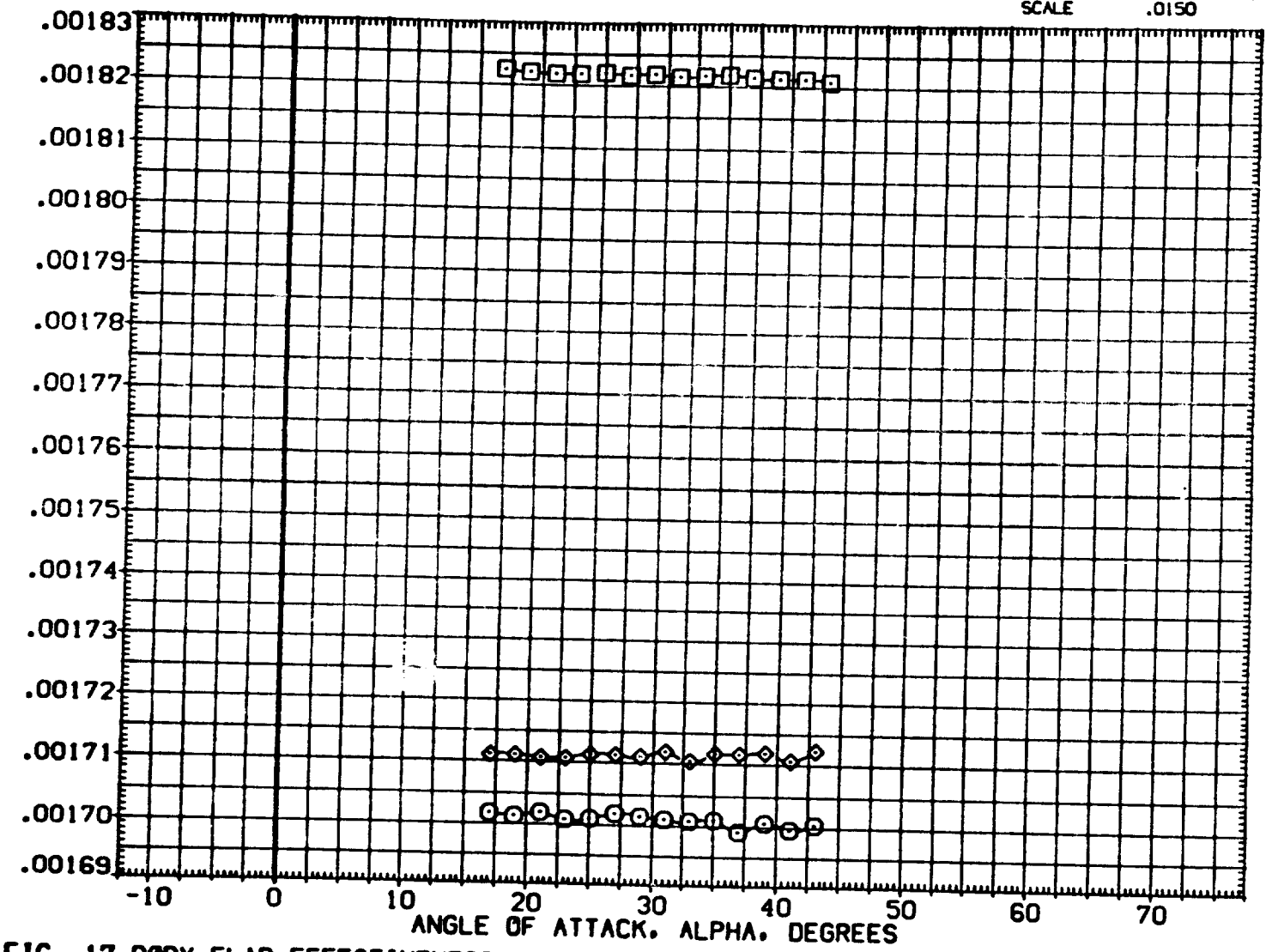


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV049) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(CTV040) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(CTV049) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

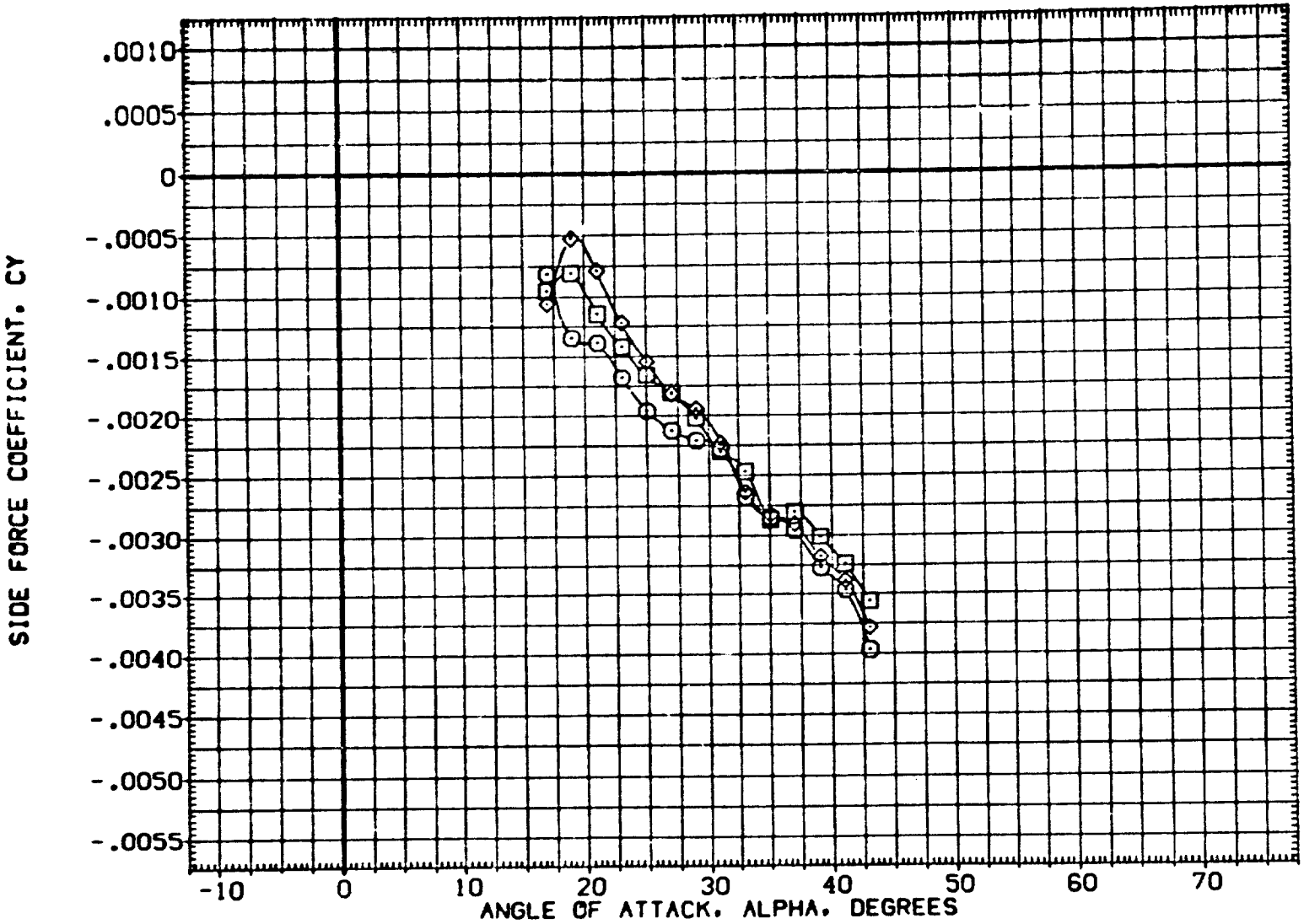


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RNVL
(ATV048)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(ATV040)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	1.860
(ATV049)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

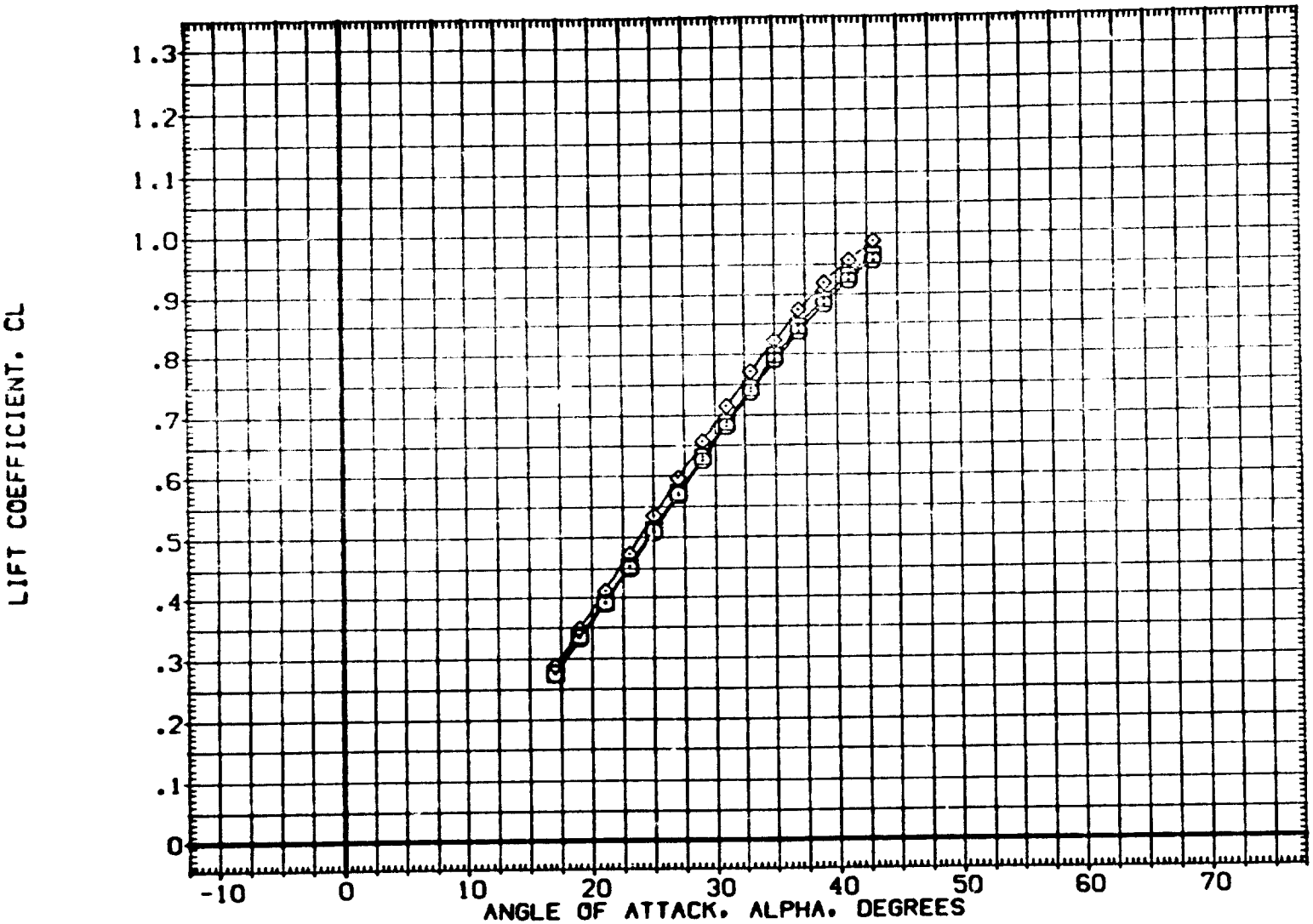


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(ATV048)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	1.860
(ATV040)	□	0A79 B26 C9 E43 F8 M16 N29 R5 V8 V116	.000	1.860
(ATV049)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

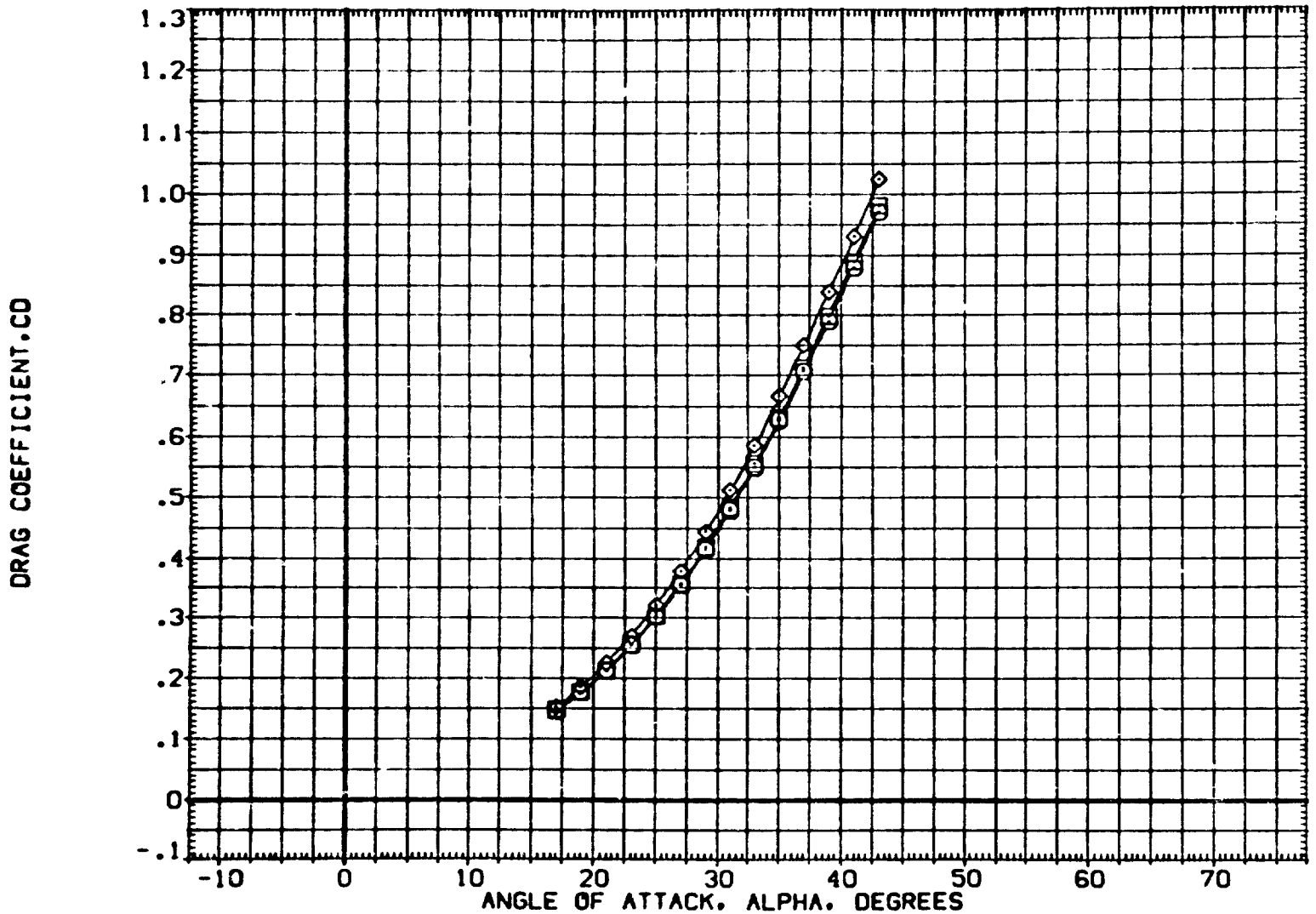


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(ATV048)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-11.700	1.860
(ATV040)	⊡	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.000	1.860
(ATV049)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	16.300	1.860

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

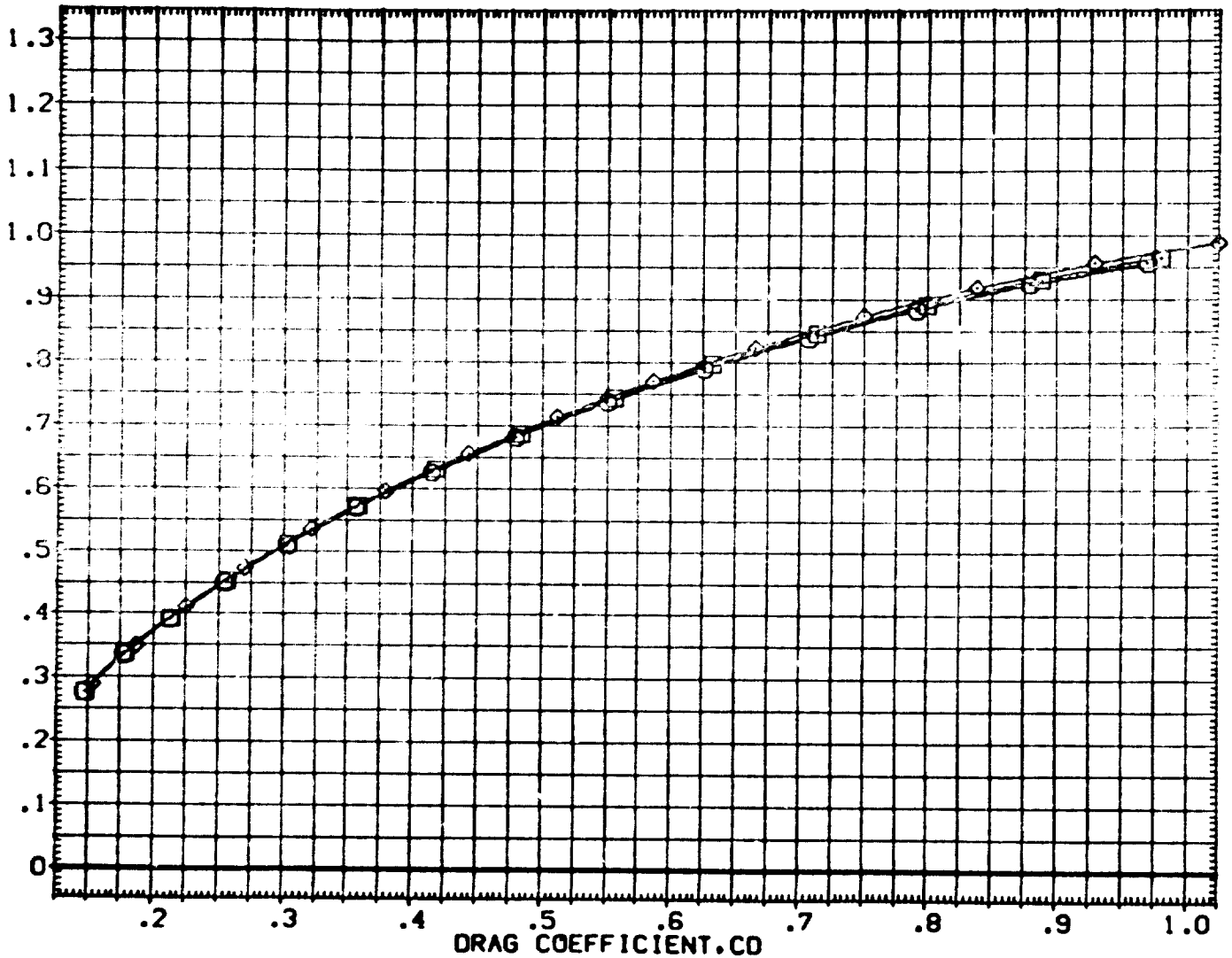


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(ATW048)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	-11.700	1.860
(ATW040)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	1.860
(ATW043)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	16.300	1.860

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

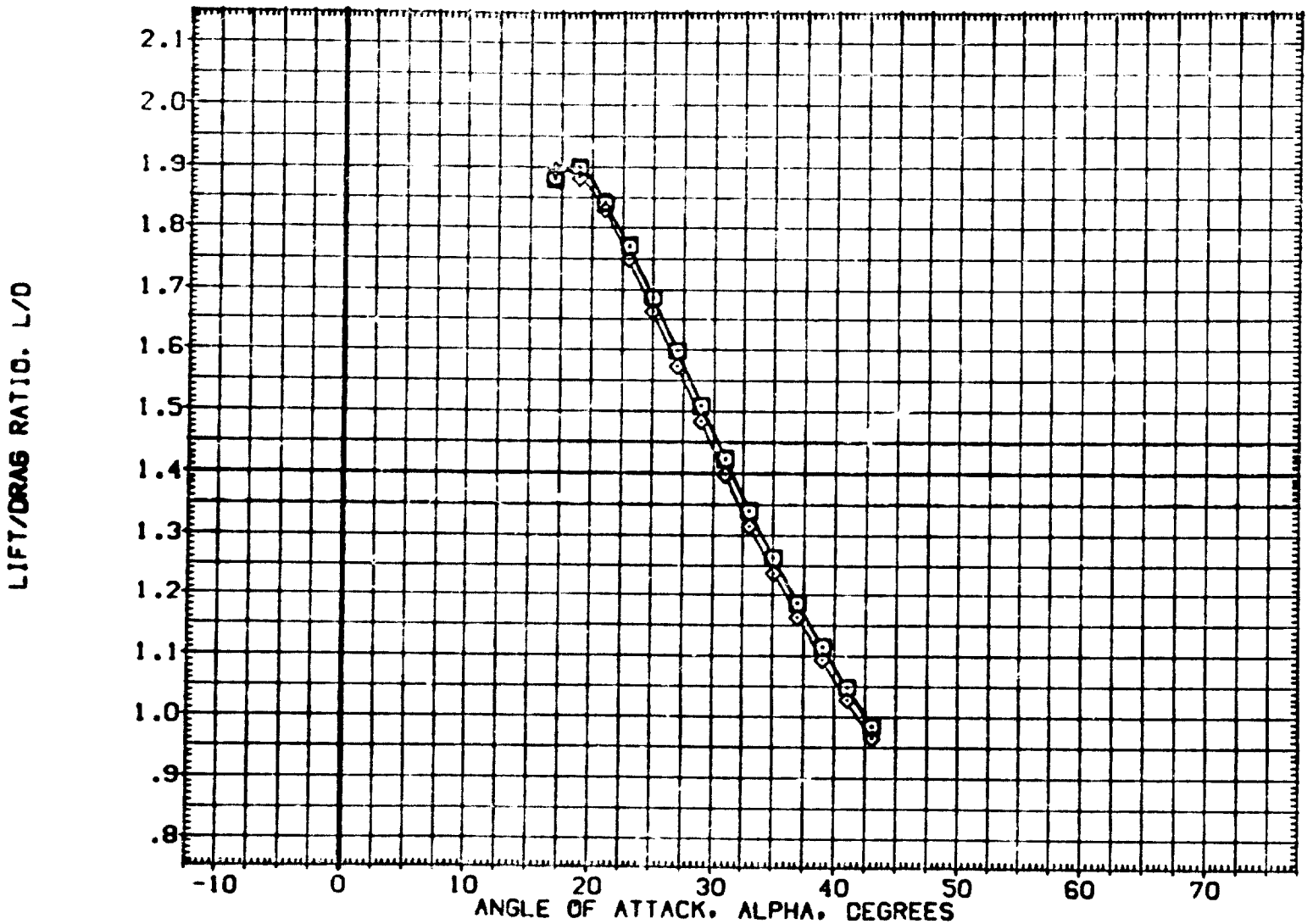


FIG. 17 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 1.86)

(A)MACH = 7.98

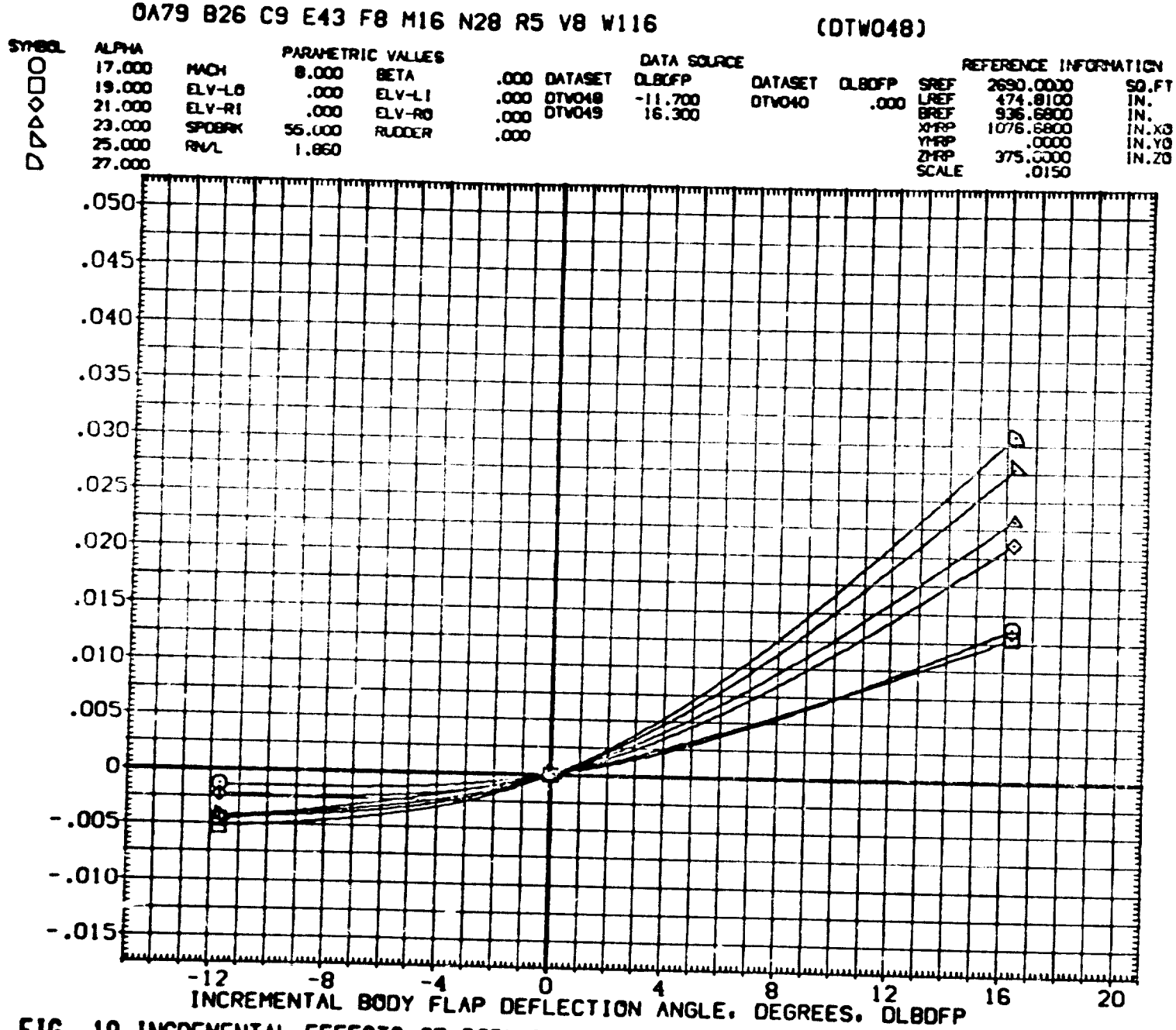


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

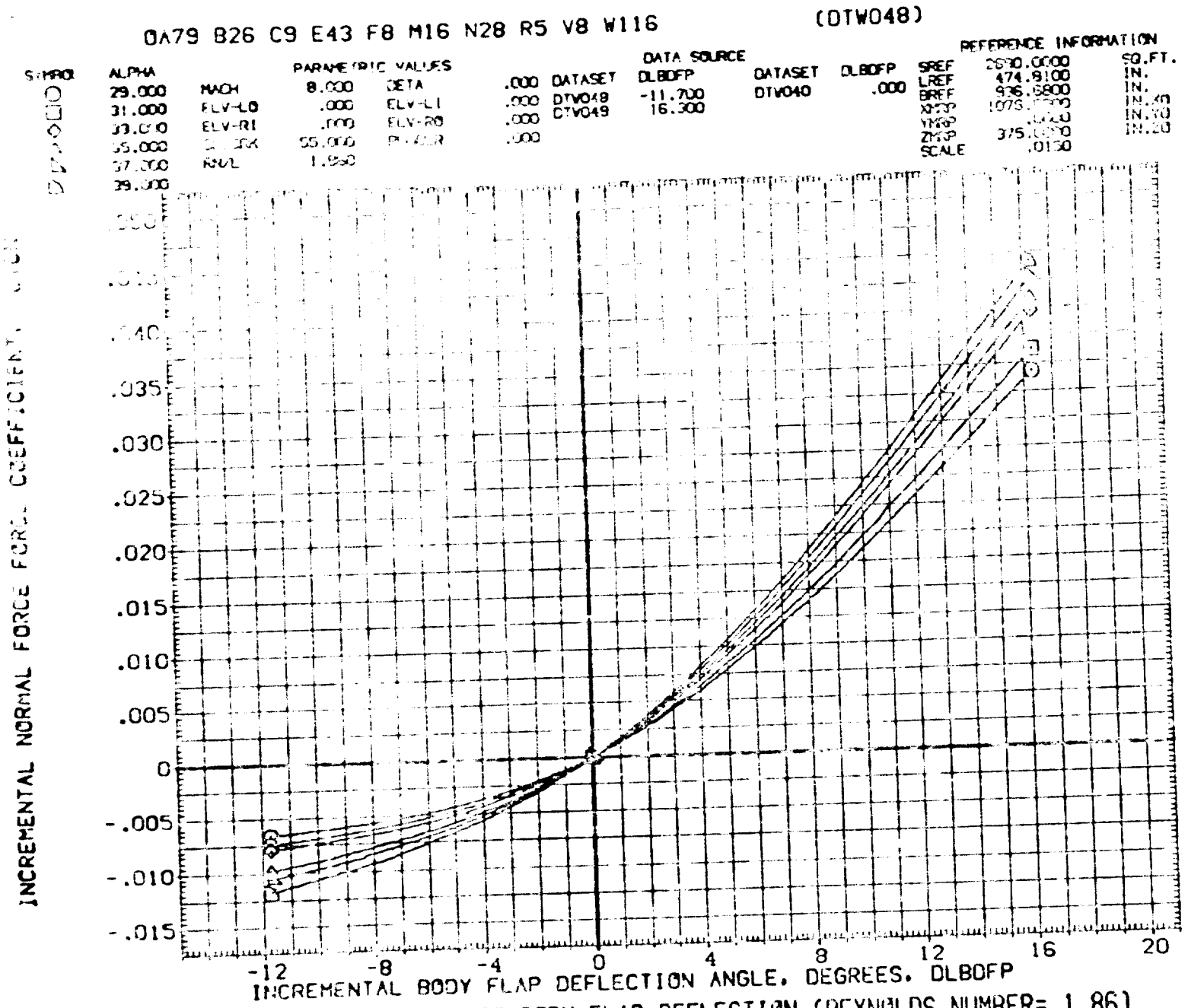


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

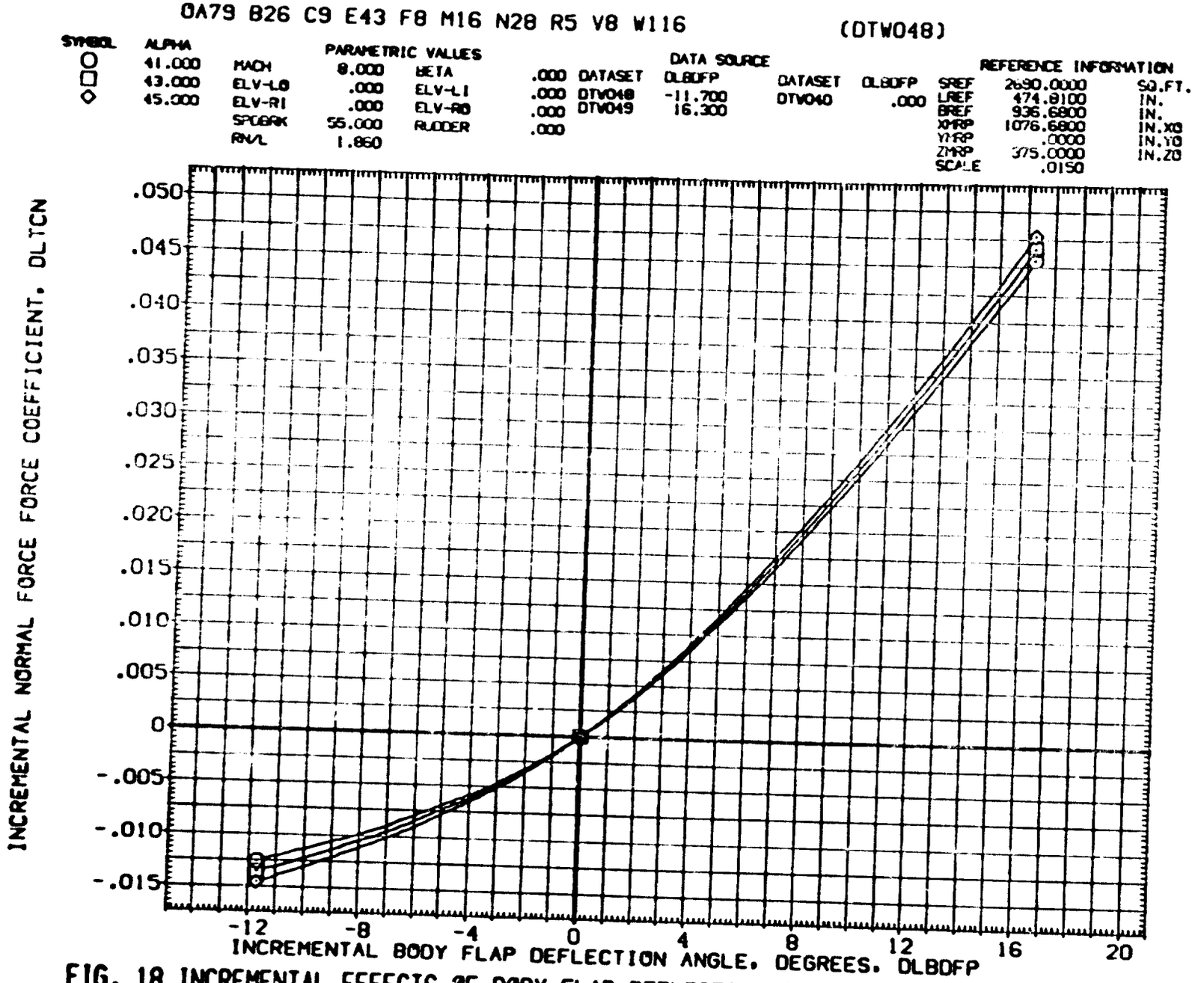


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

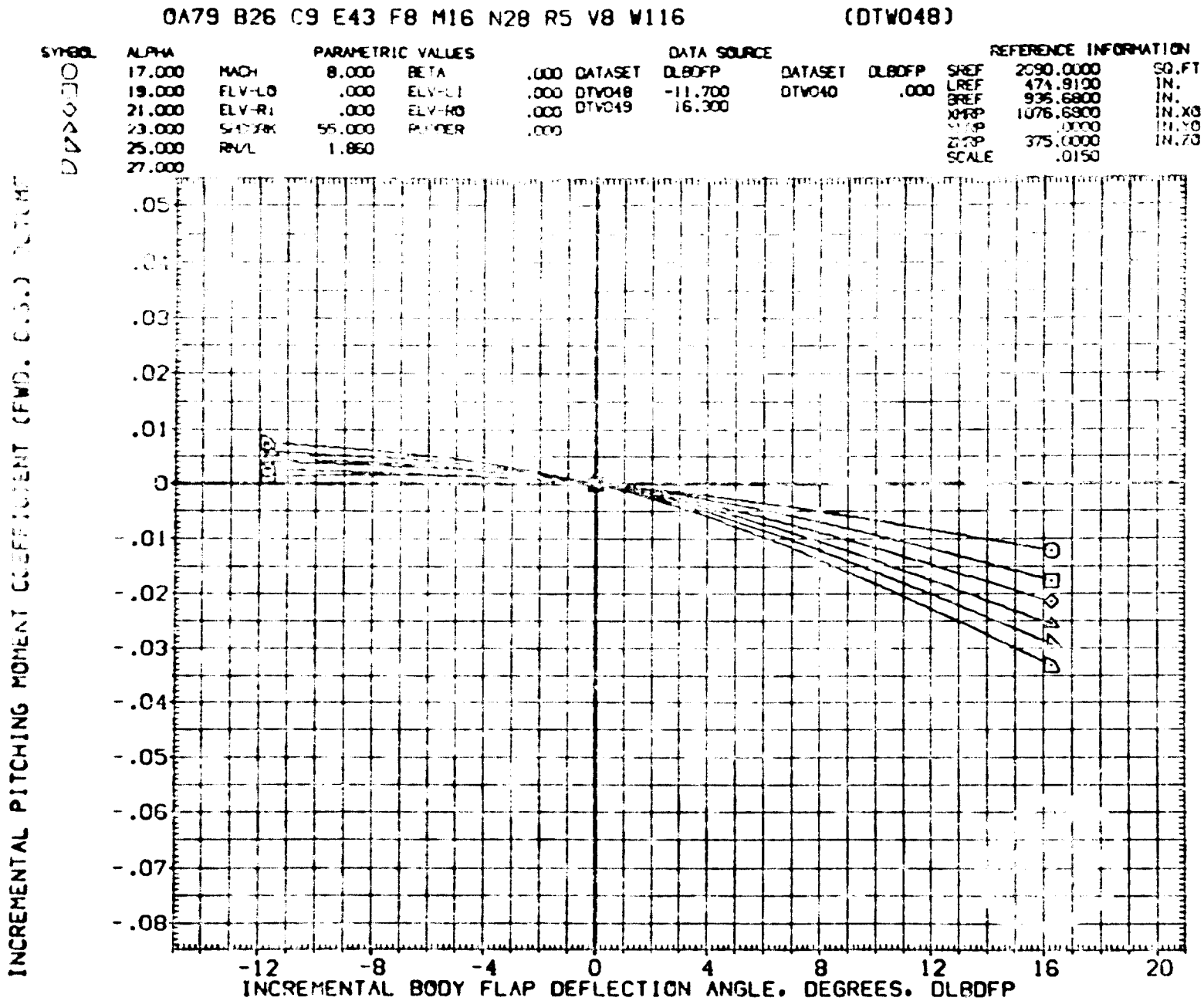


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBOFP	DATASET	DLBOFP	SREF	2690.0000	SQ.FT.
△	31.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
□	35.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
	37.000	R/L	1.860							YMRP	.0000	IN.YB
	39.000									ZMRP	373.0000	IN.ZB
										SCALE	.0150	

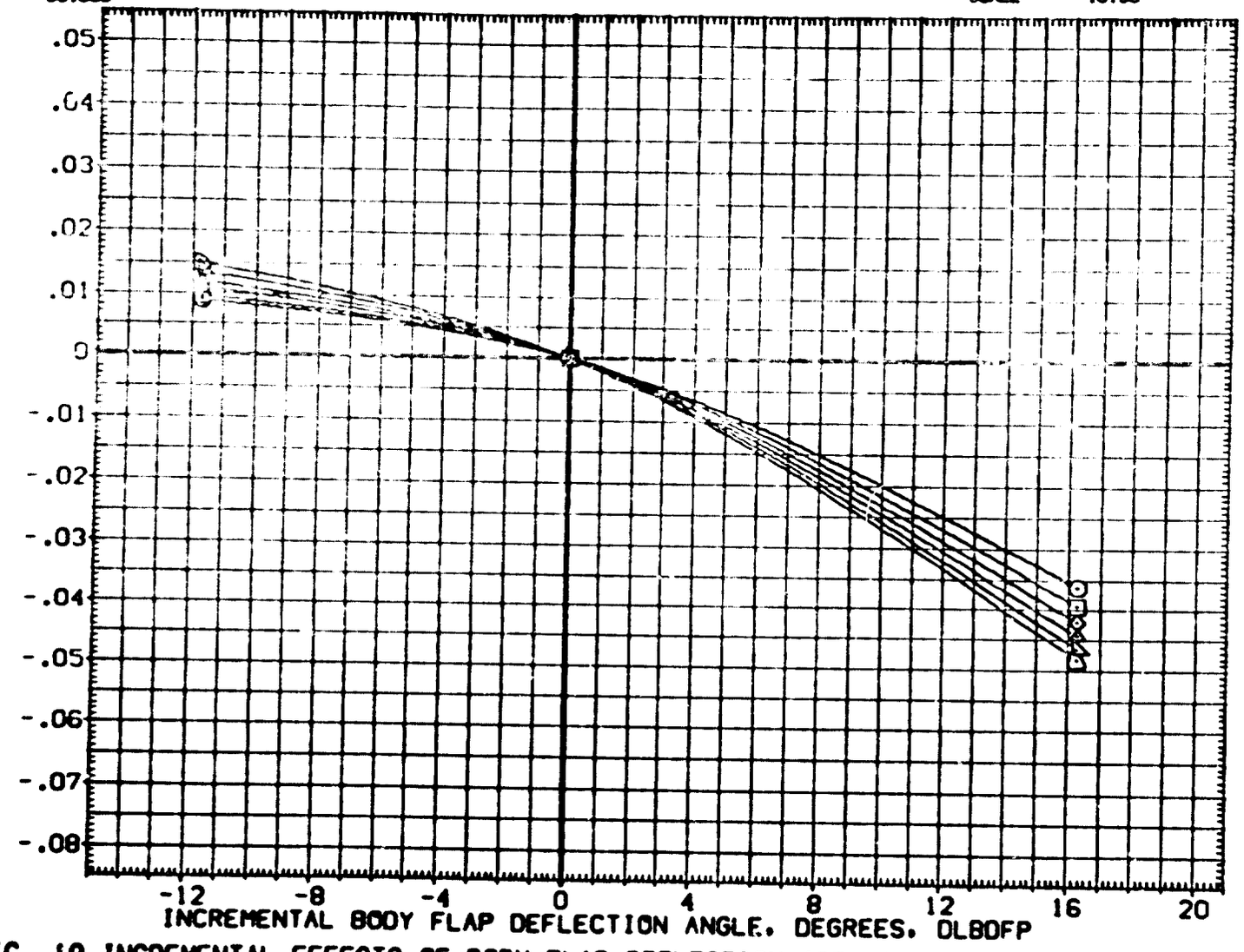


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTWC18)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTWC18	-11.700	DTWC40	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTWC43	16.300			BREF	935.6900	IN.
		SPDBRK	55.200	RUDDLR	.000					XMRP	1076.6900	IN.XG
		MACH	1.860							YMRP	.0000	IN.YG
										ZMRP	375.0000	IN.ZG
										SCALE	.0150	

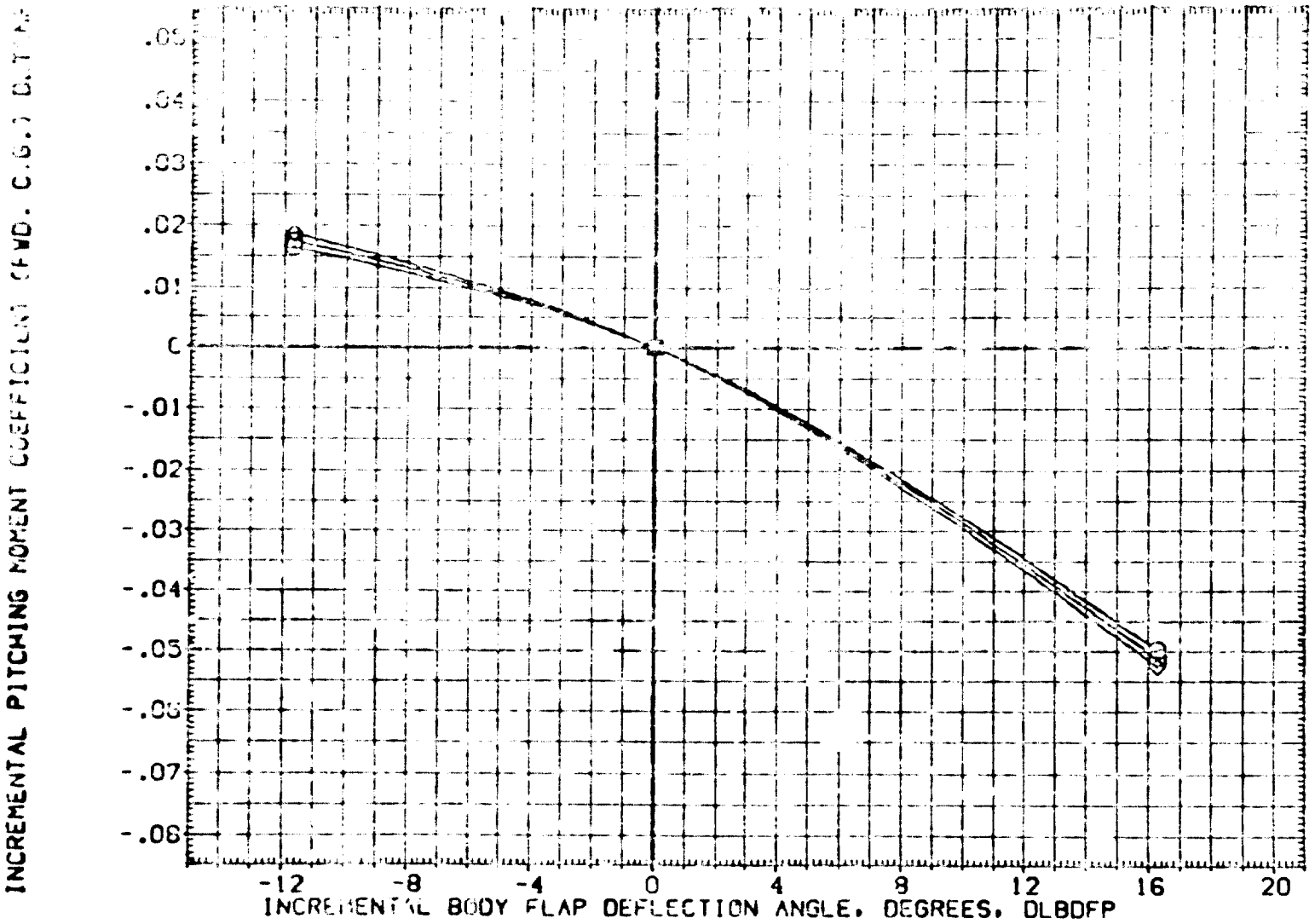


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	21.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
△	23.000	SPDBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.X0
▽	25.000	RN/L	1.660							YMRP	.0000	IN.Y0
▷	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

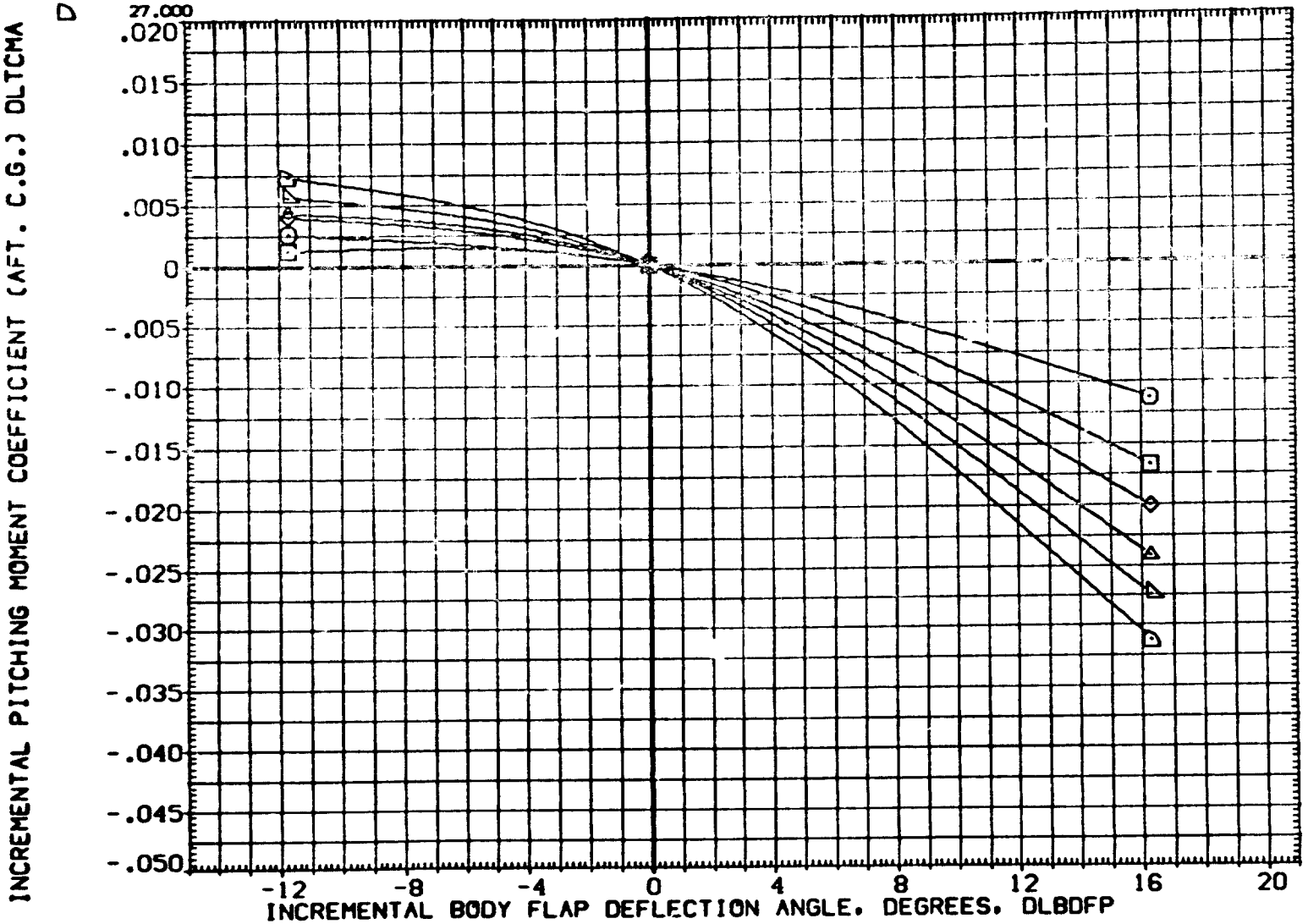


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
△	35.000	SPDBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▽	37.000	RNYL	1.860							YMRP	.0000	IN.YB
	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

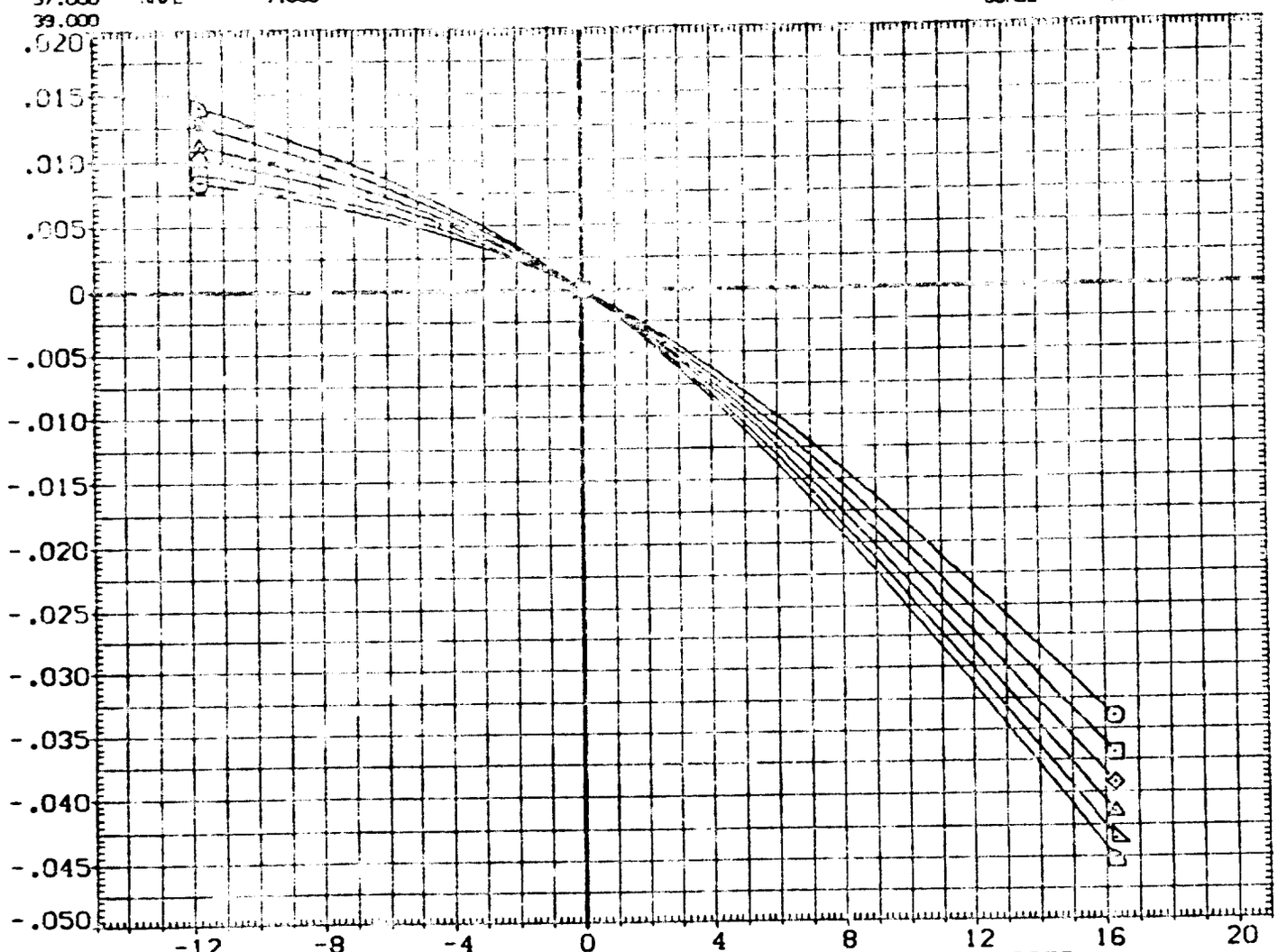


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.36)

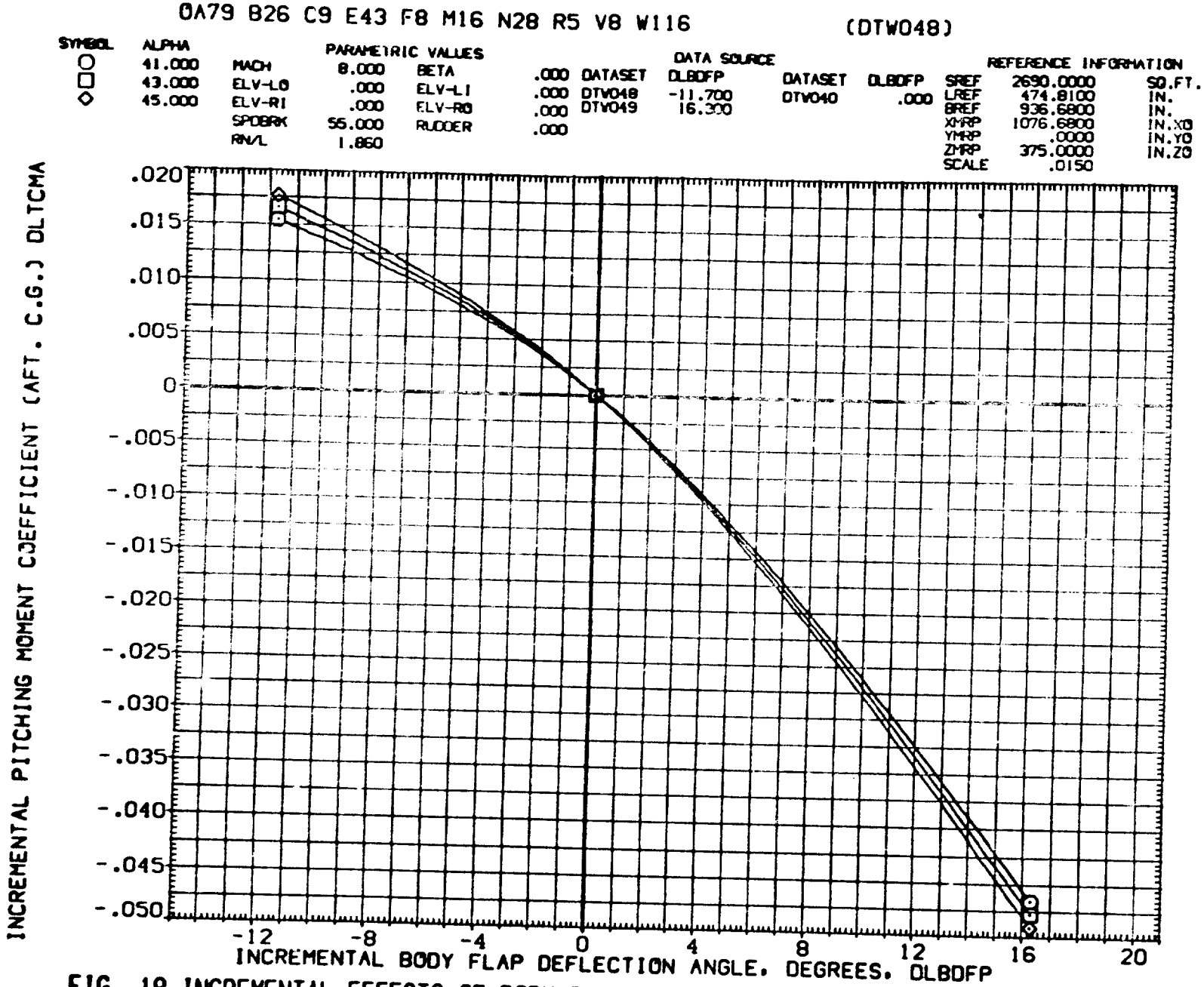


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

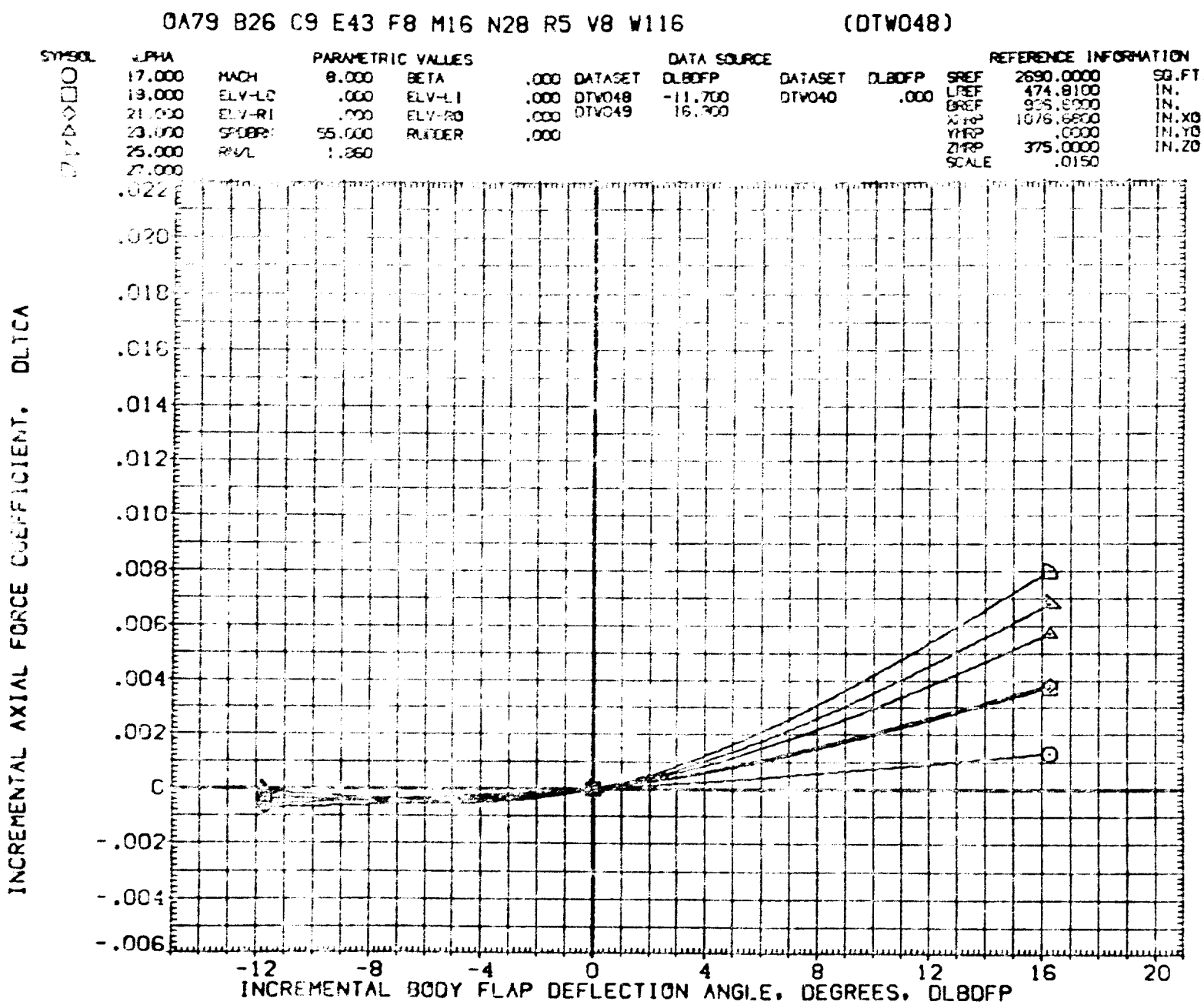


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
△	35.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▽	37.000	RN/L	1.860							YMRP	.0000	IN.YB
	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

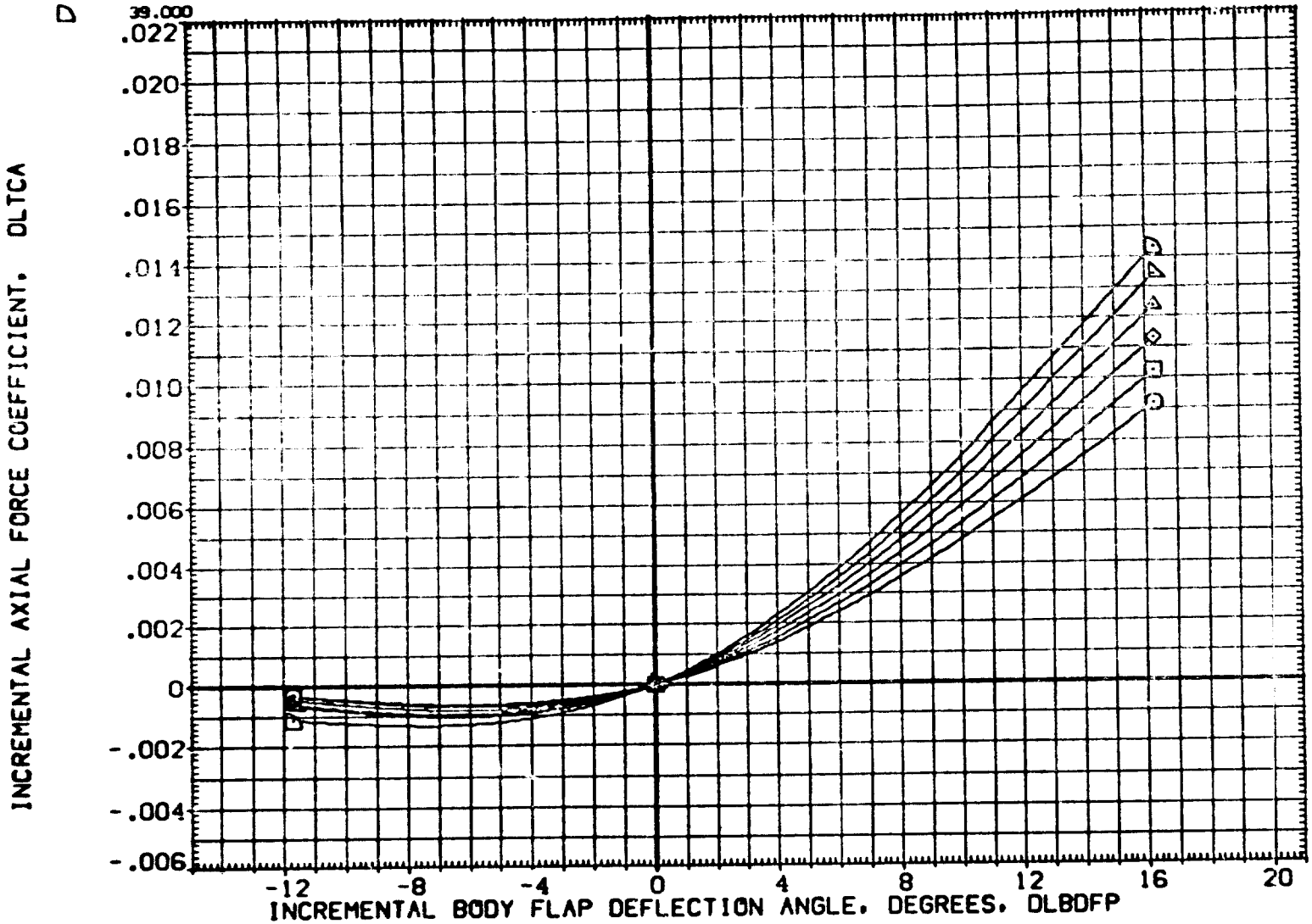


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
		SPOBRK	25.000	RUDDER	.000					XMRP	1076.6800	IN.X0
		RN/L	1.860							YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

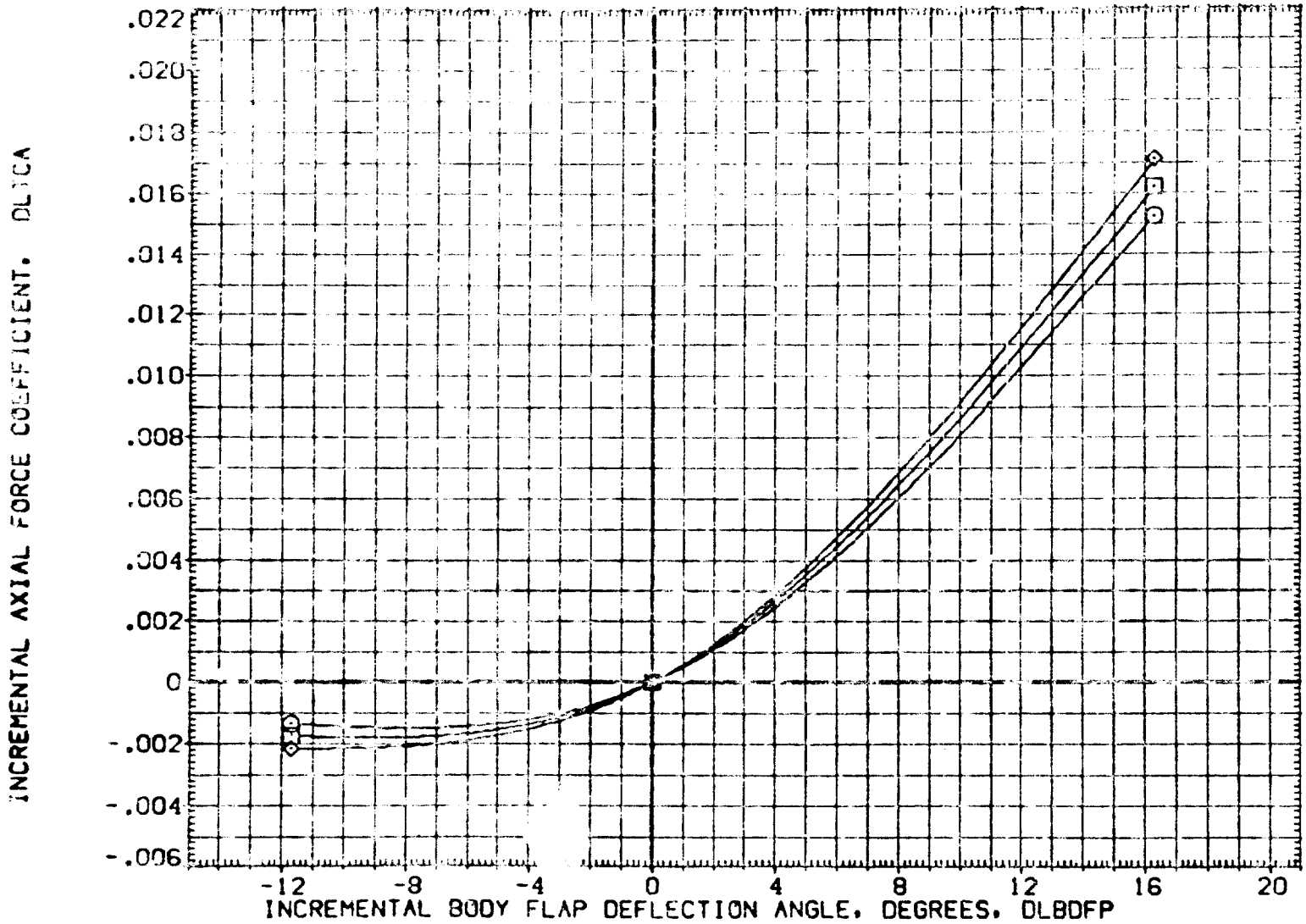


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

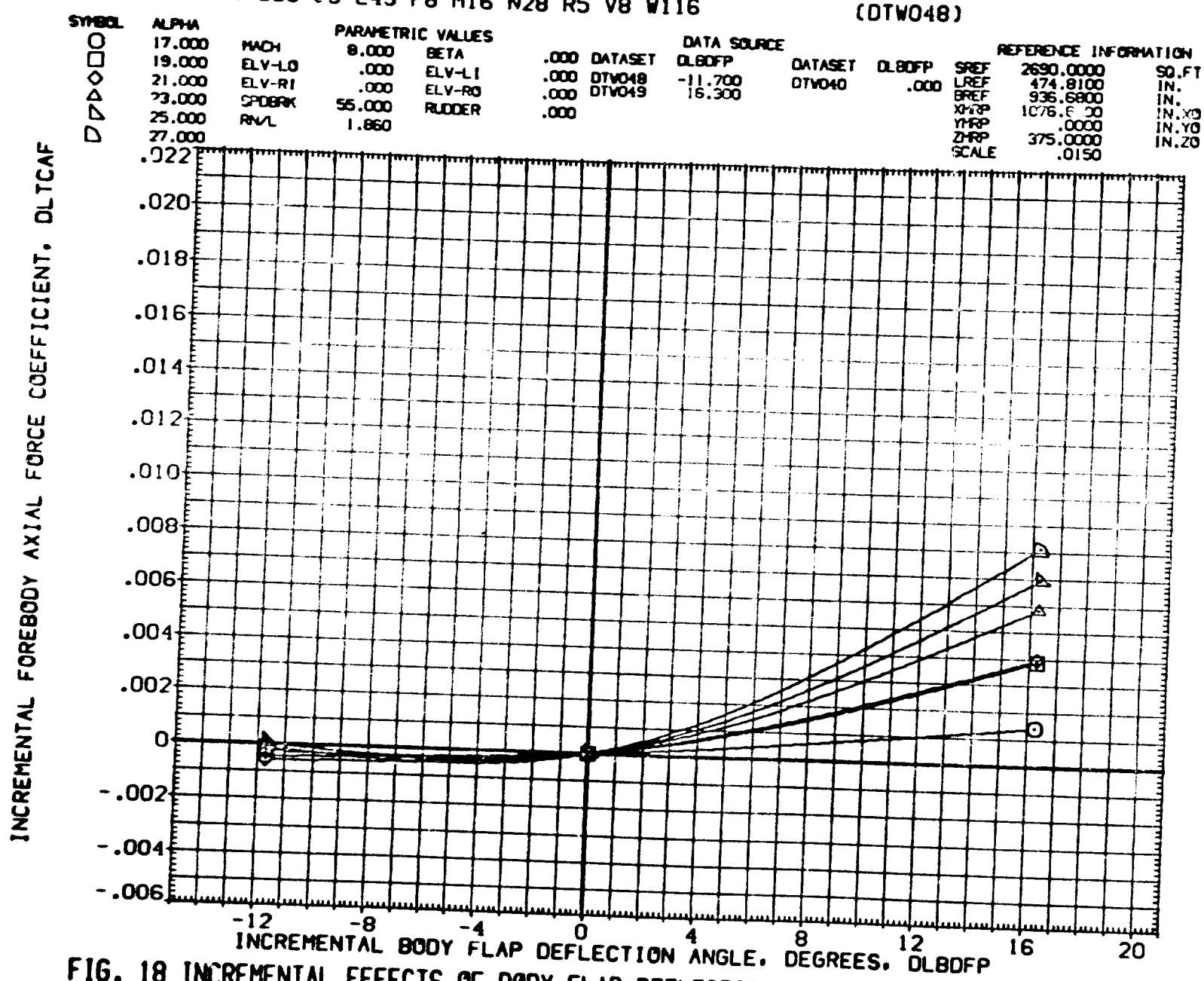


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

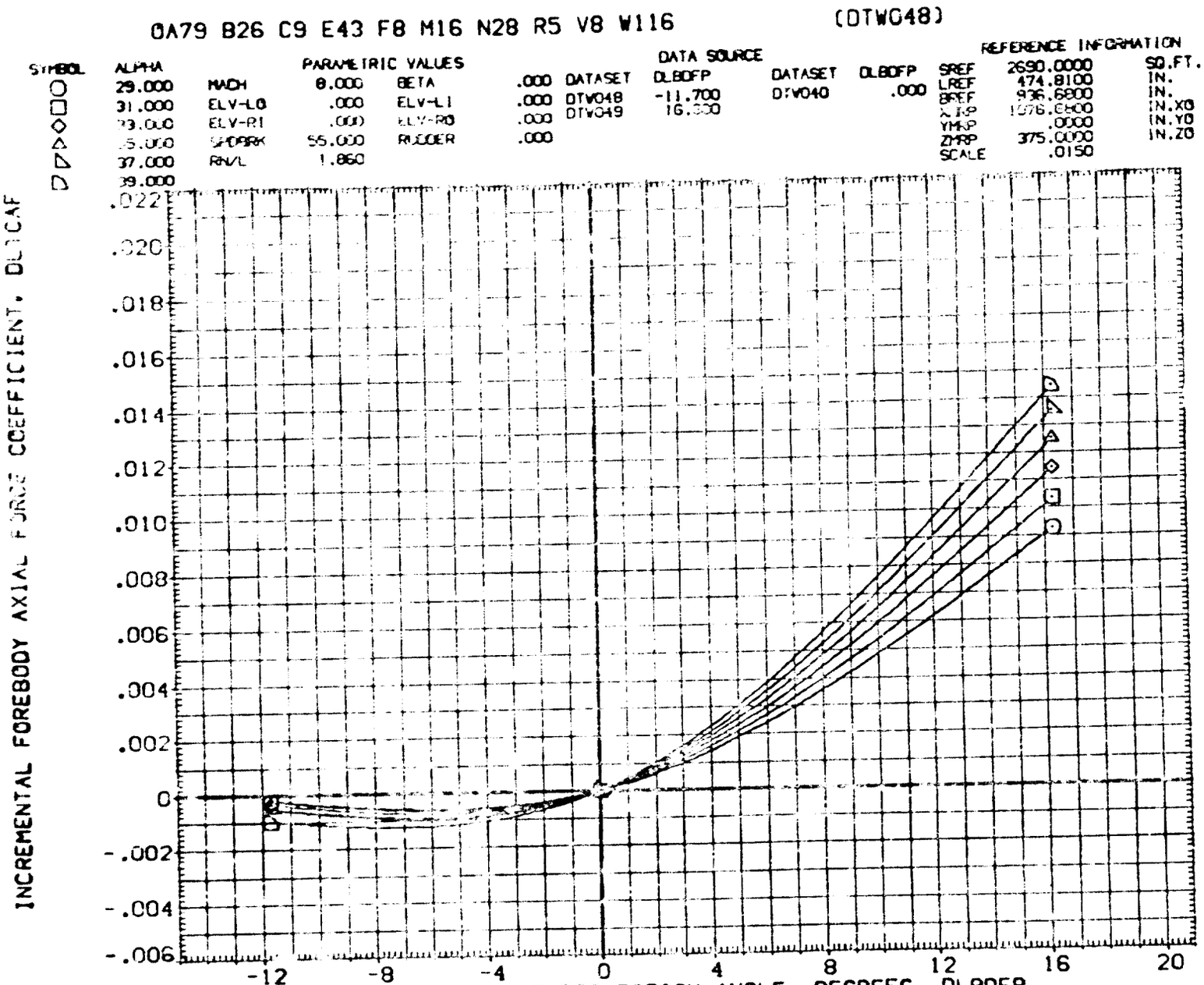


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8150	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	935.6800	IN.
		SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.X0
		RNVL	1.860							YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

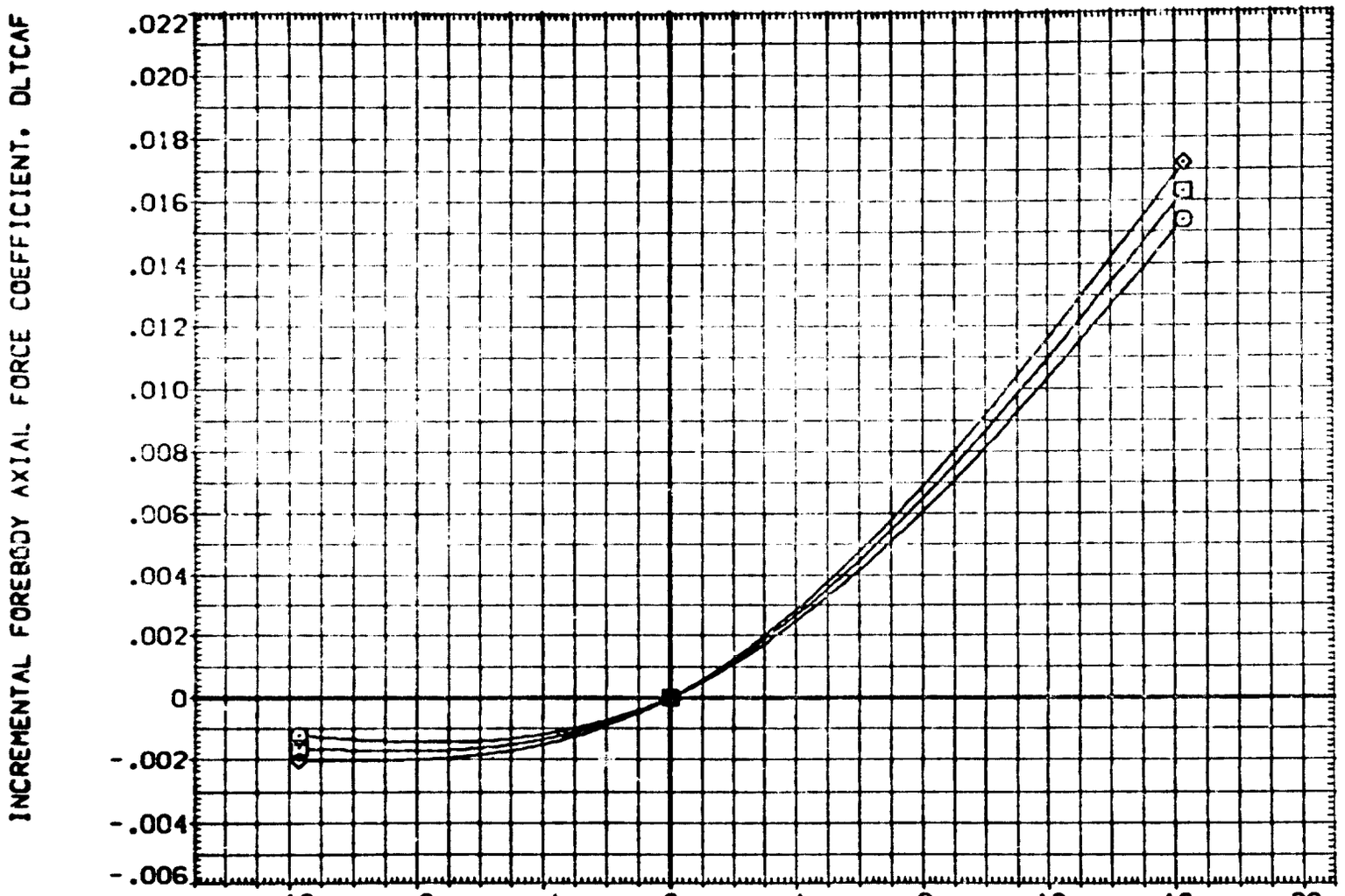


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

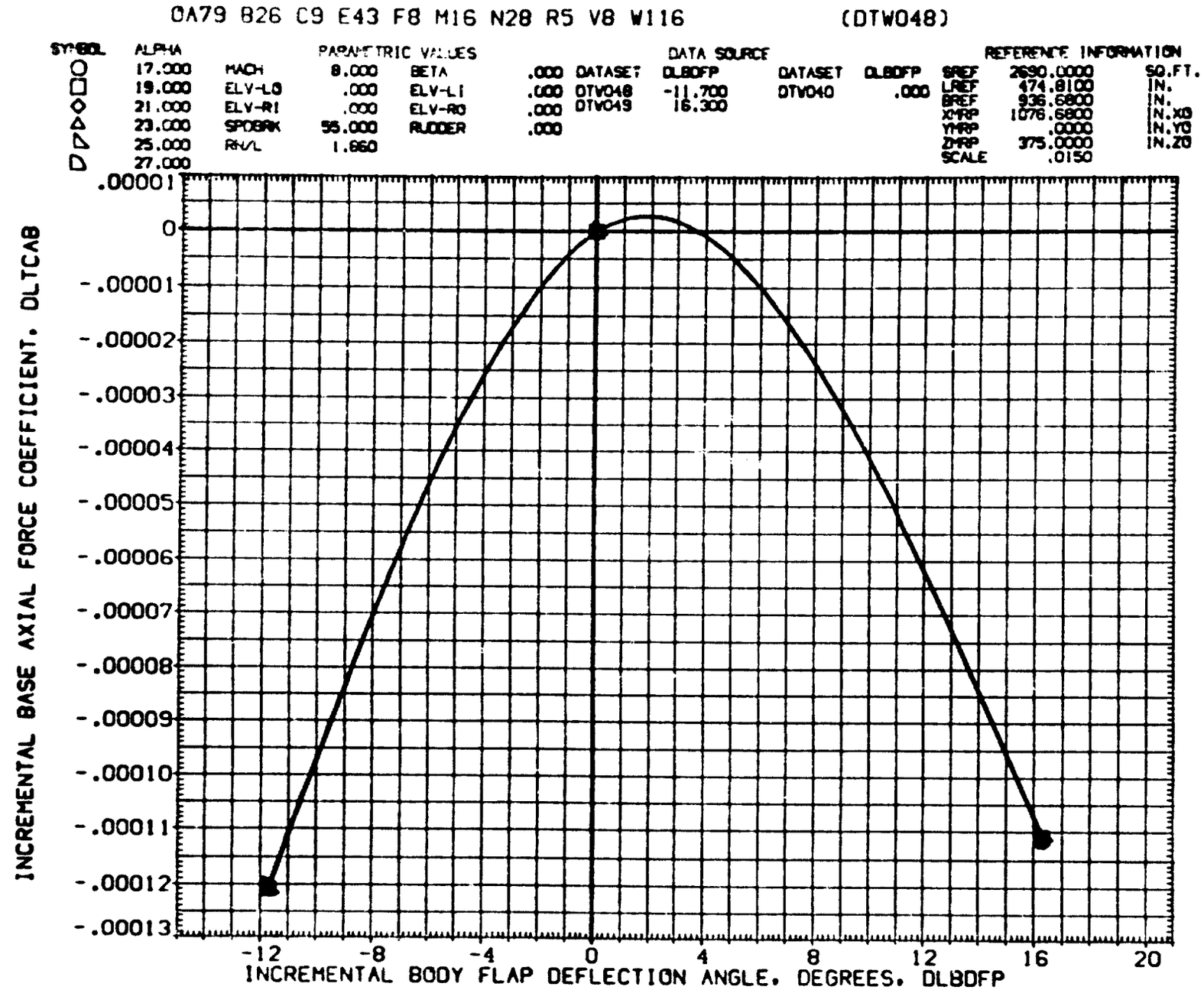


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTV048	-11.700	DTV040	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTV049	16.300			BREF	936.6800	IN.
△	35.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▽	37.000	RN/L	1.860							YMRP	.0000	IN.YB
◁	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

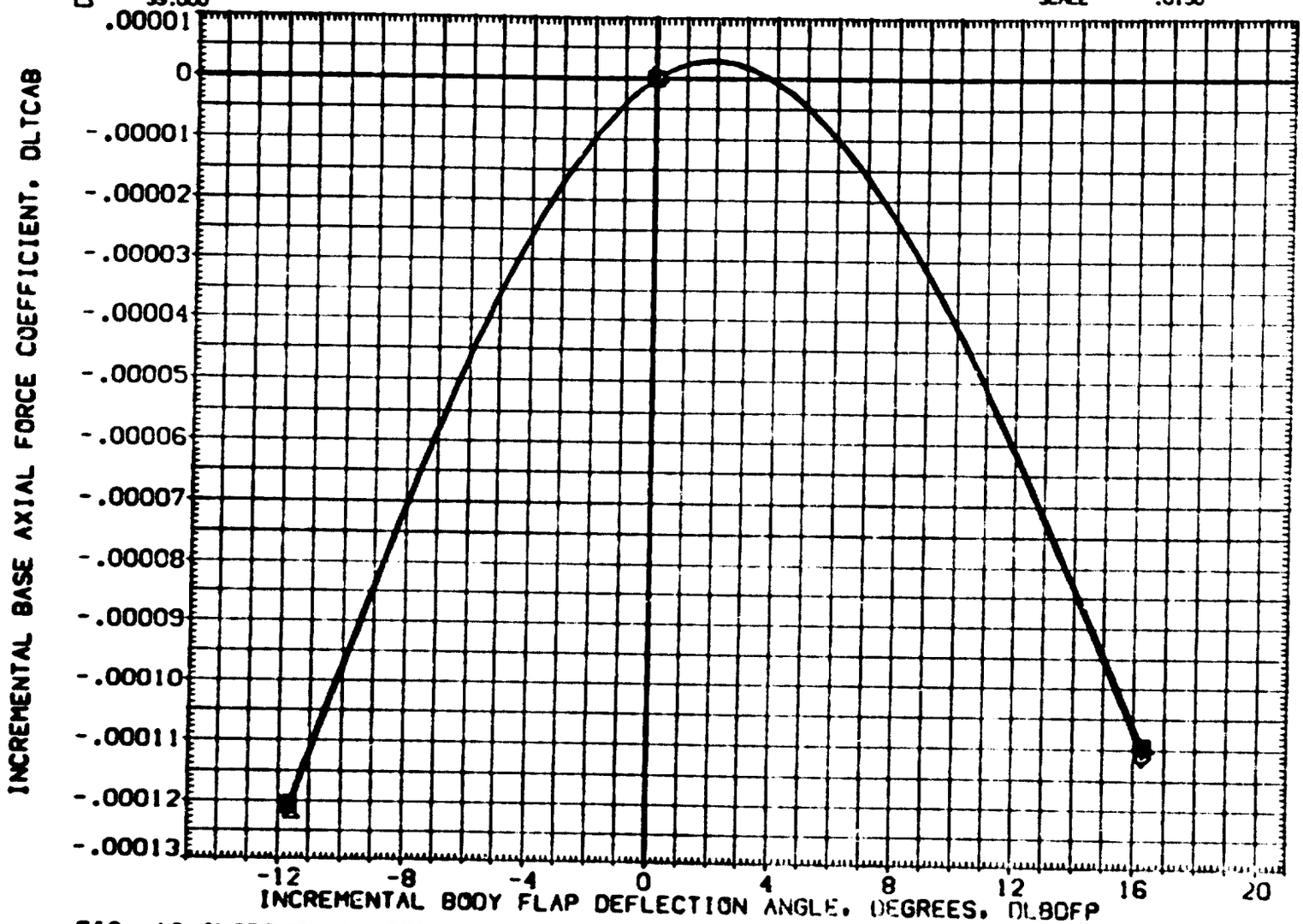


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
		SLDBRK	55.000	RUDDER	.000					XMRP	1076.8000	IN.XB
		RNVL	1.860							YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

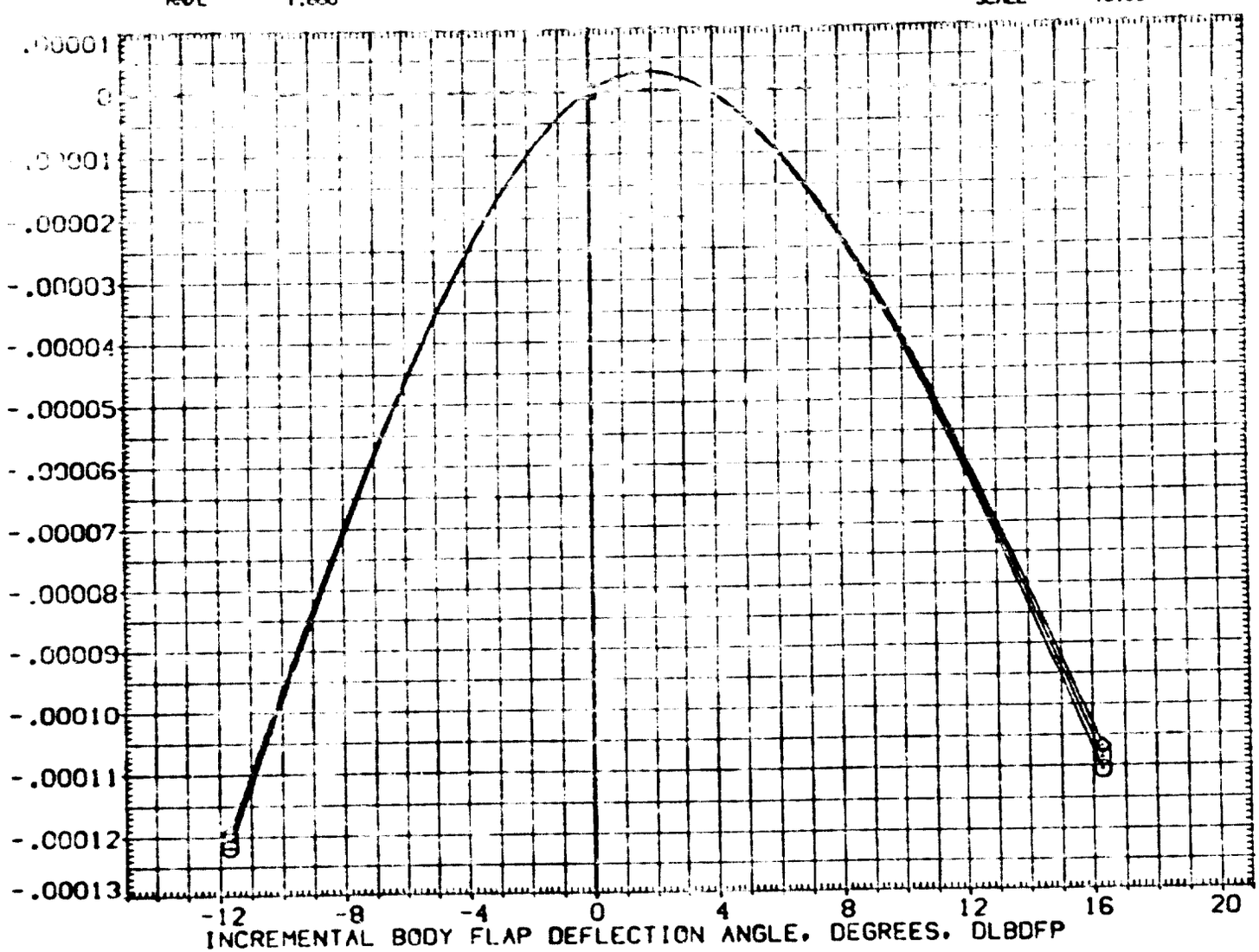


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	21.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
△	23.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.X0
▽	25.000	RNYL	1.860							YMRP	.0000	IN.Y0
	27.000									ZMRP	375.0000	IN.Z0
										SCALE	.0150	

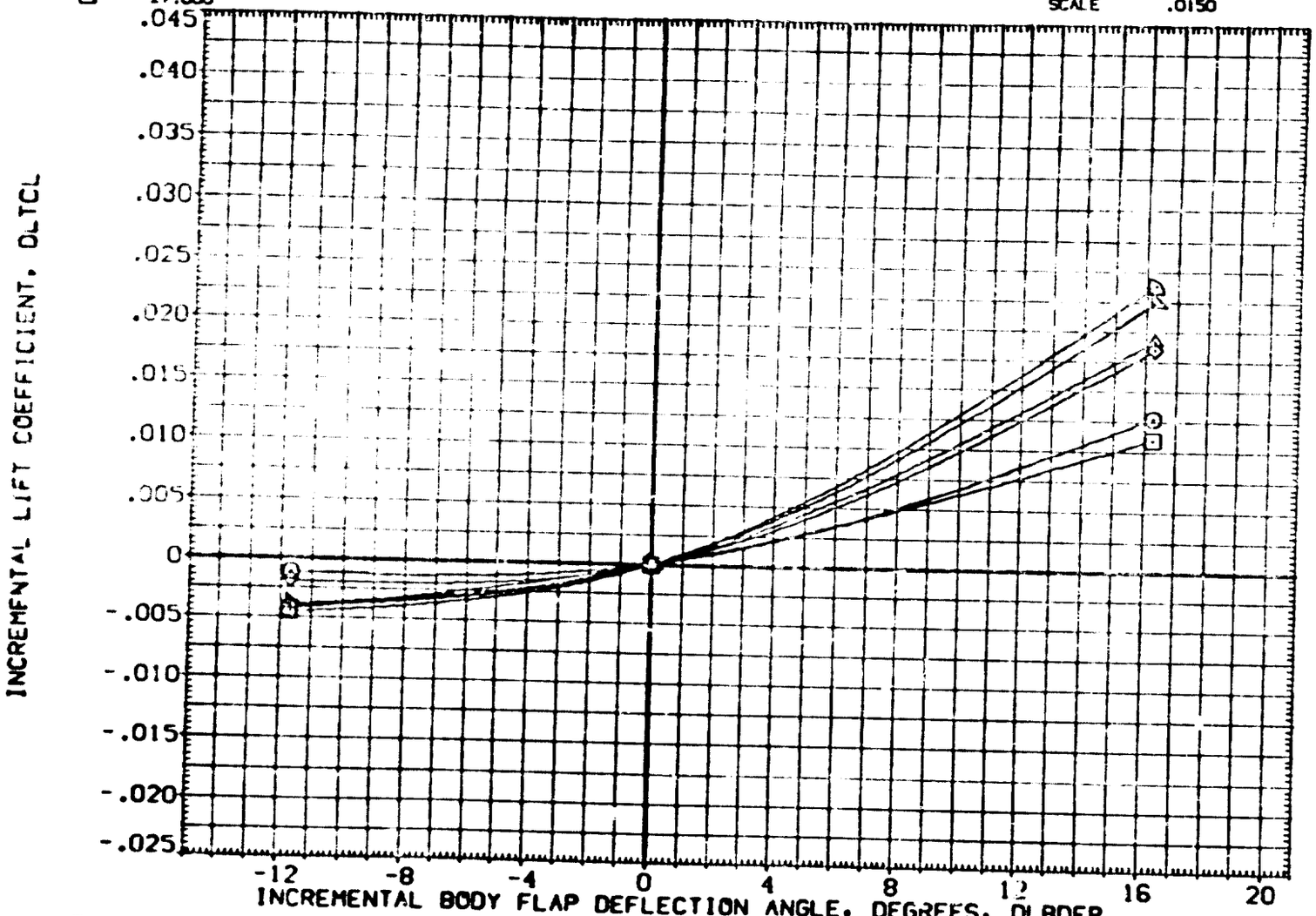


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

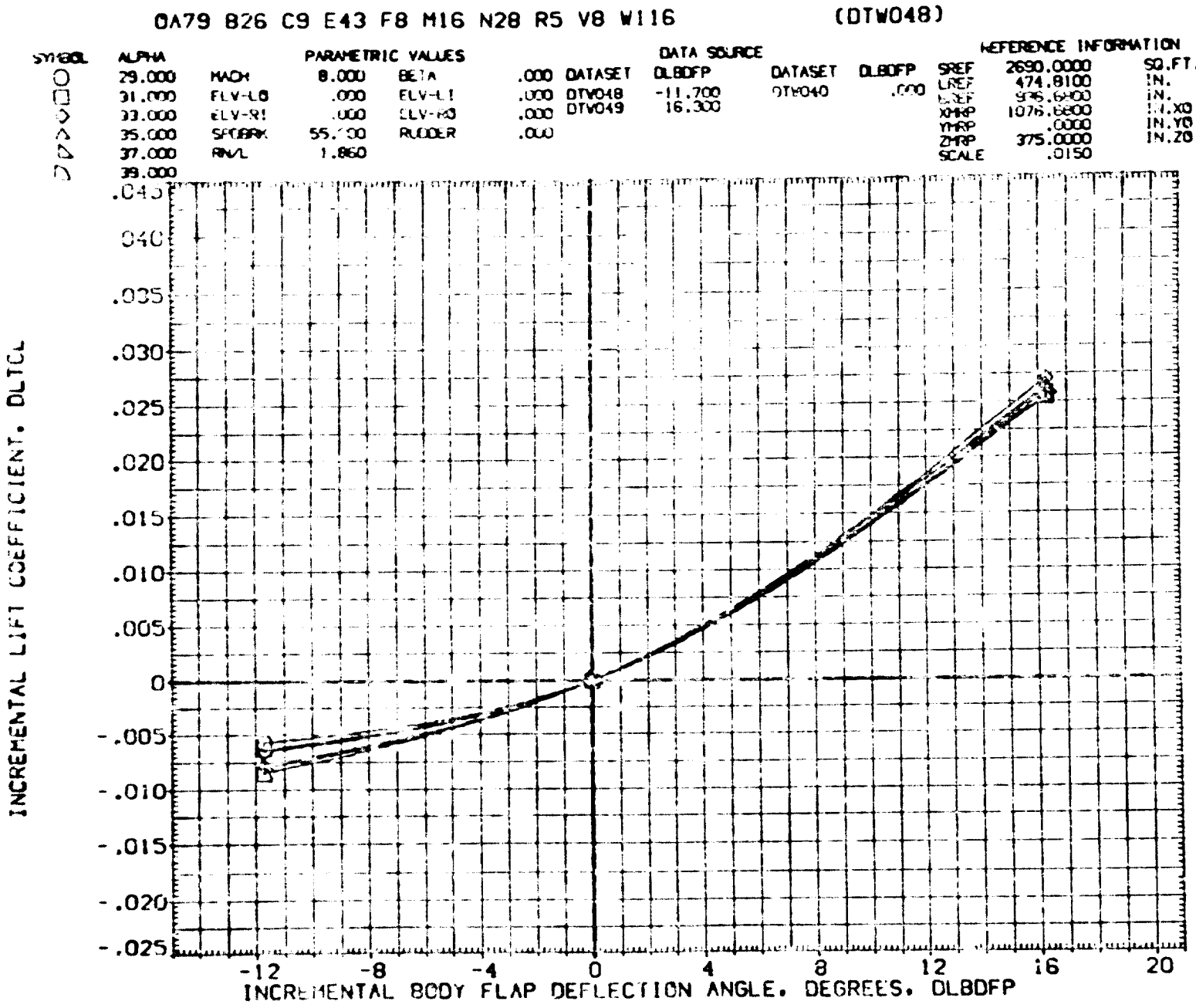


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW046	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6000	IN.
		SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
		RN/L	1.860							YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

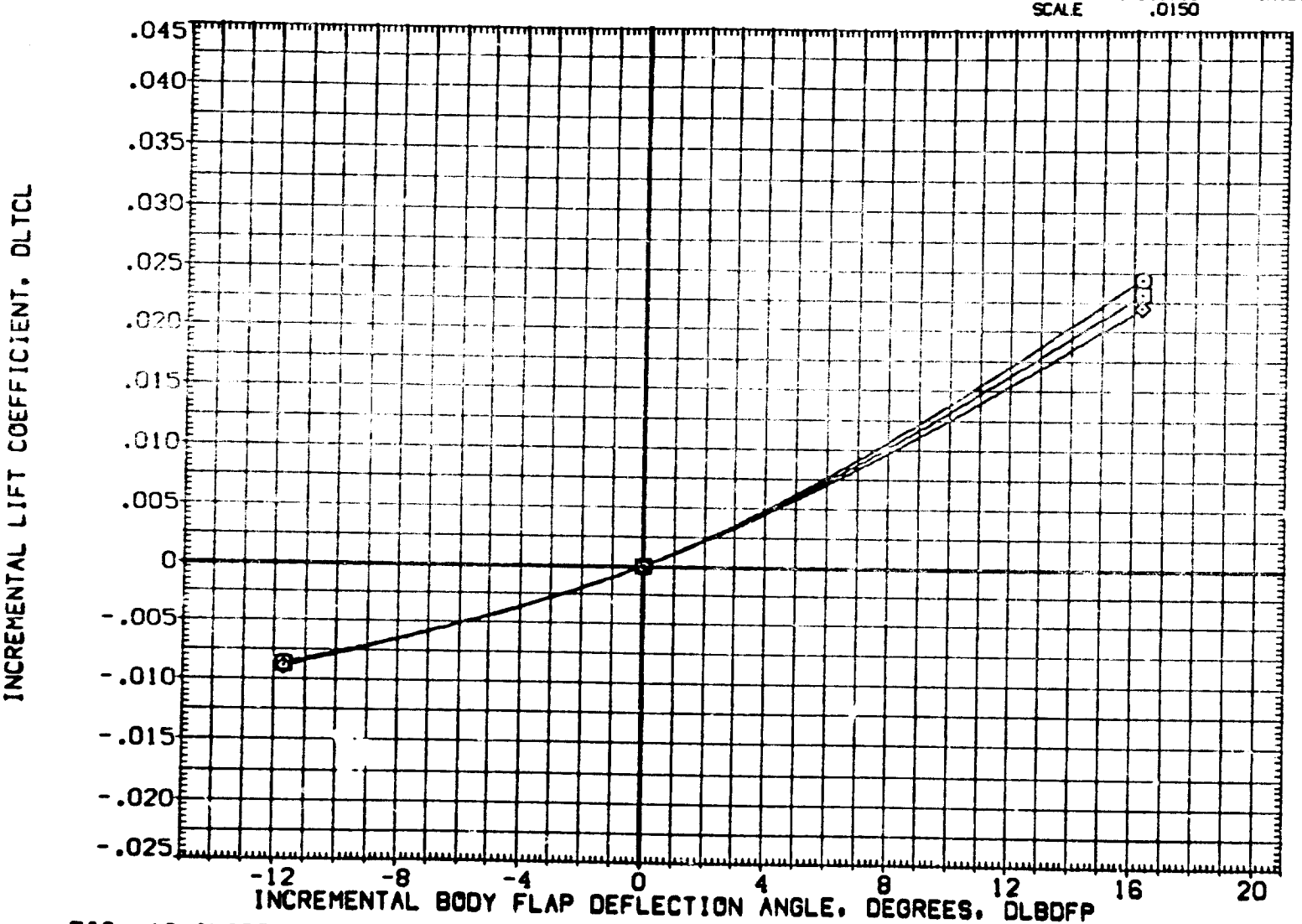


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

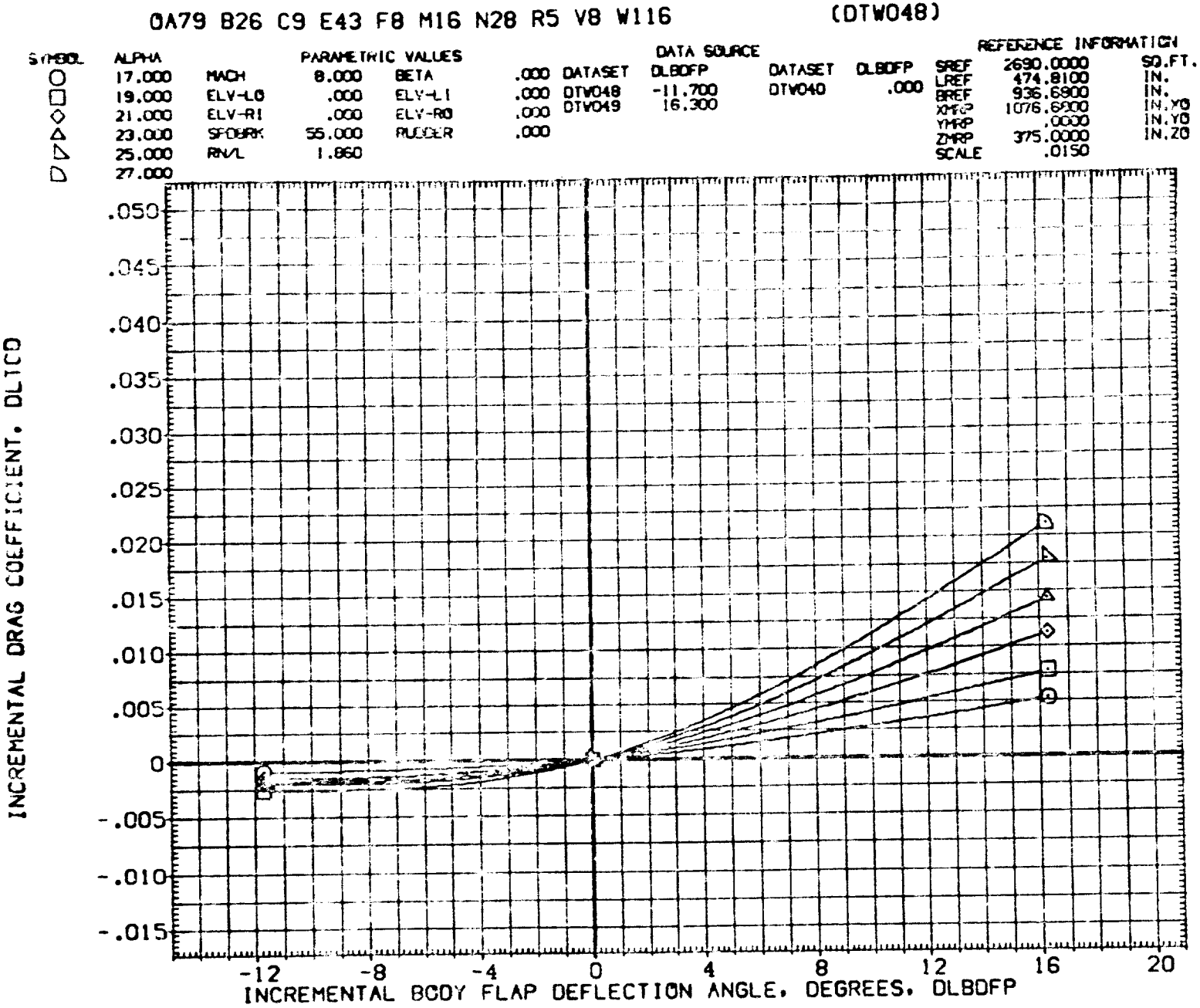


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
△	35.000	SPDBRK	55.000	RUDDER	.000					XMRP	1076.6600	IN.XB
▷◁	37.000	RNVL	1.860							YMRP	.0000	IN.YB
▷	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

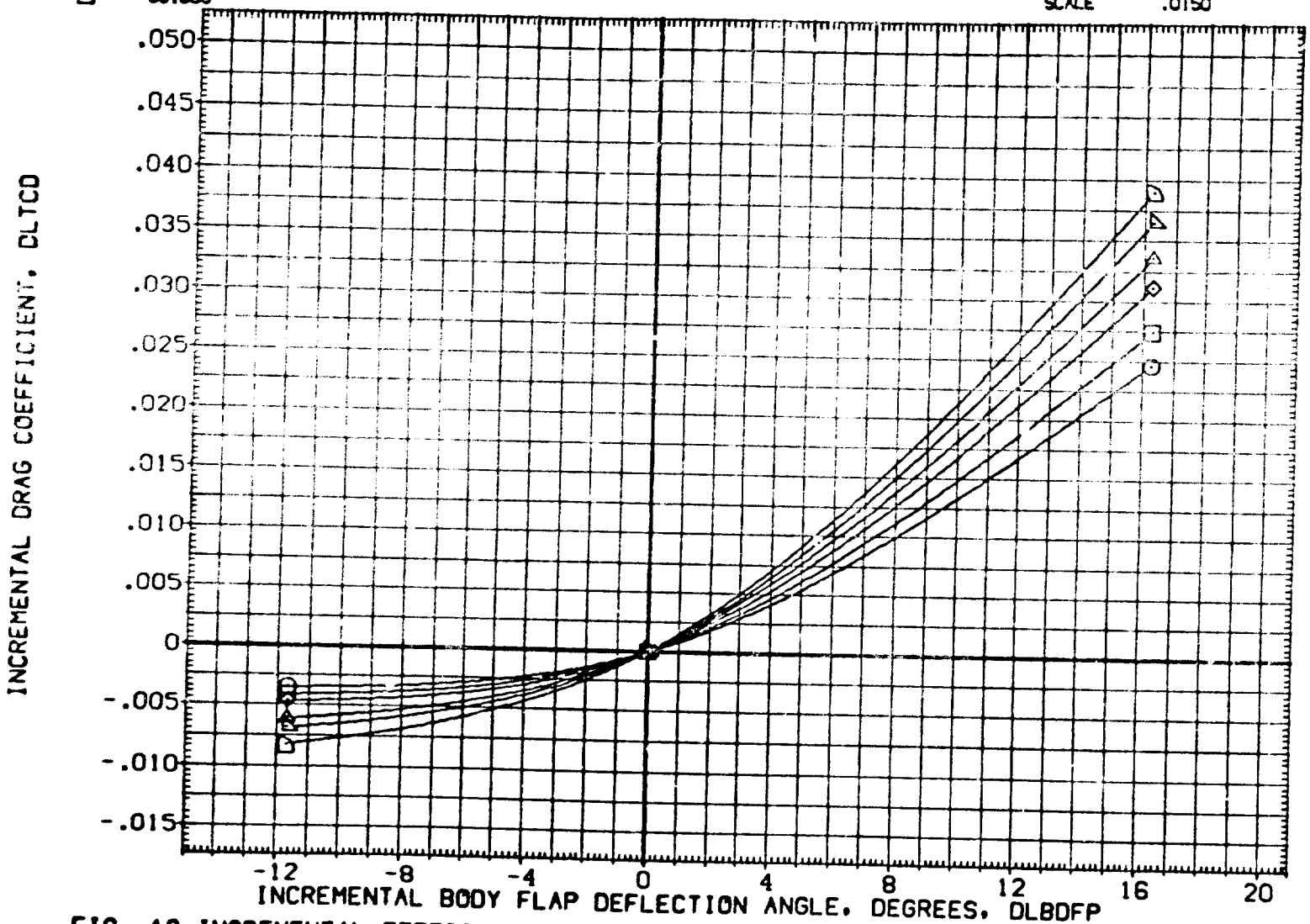


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW048)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW048	-11.700	DTW040	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW049	16.300			BREF	936.6800	IN.
		SPOIRK	56.000	RUDDER	.000					XMRP	1076.6800	IN.FB
		REYL	1.860							YMRP	.0.00	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

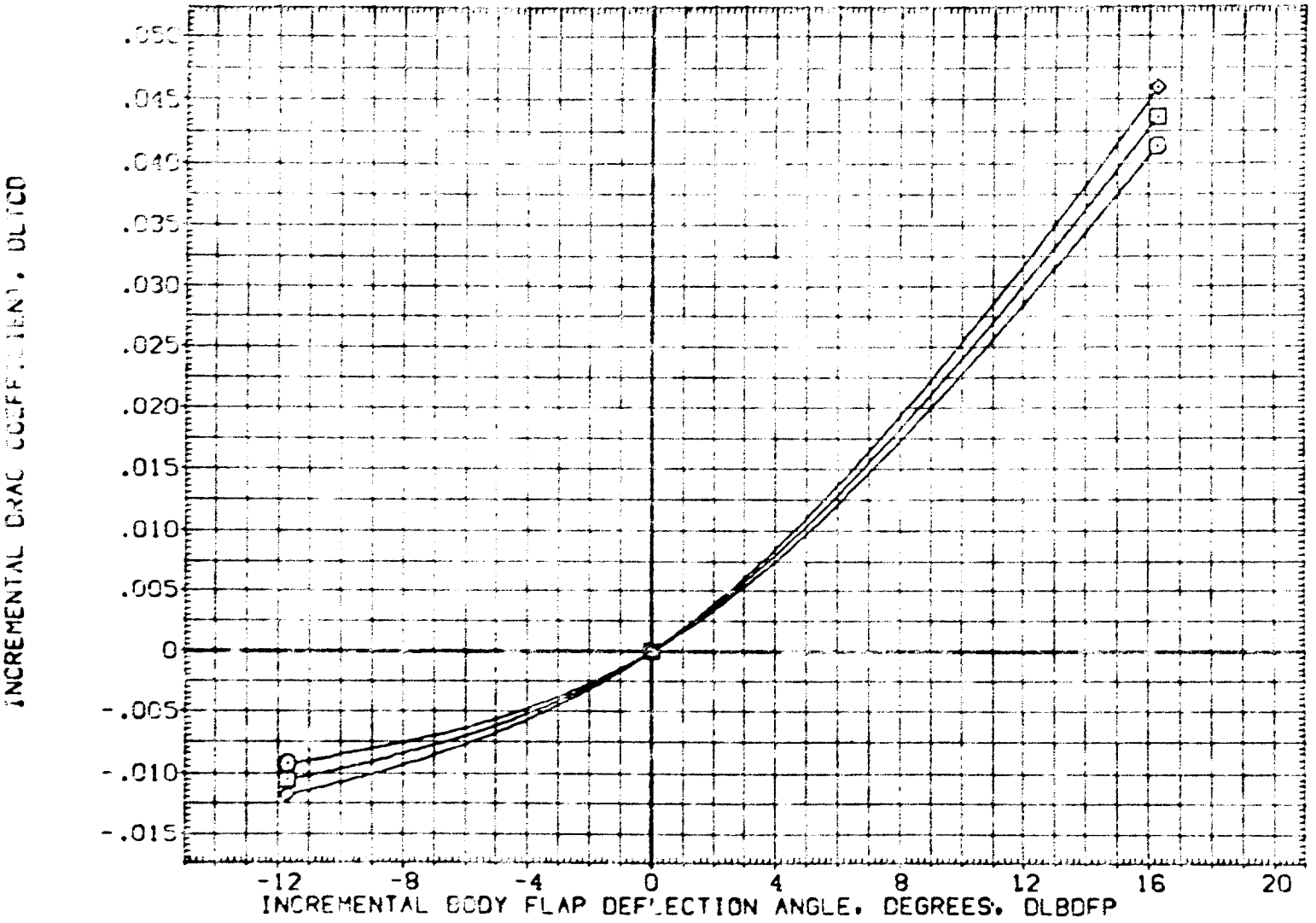


FIG. 18 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 1.86)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV058)	○	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	-11.700	.500
(CTV057)	□	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.000	.500
(CTV056)	◇	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116	16.300	.500

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6000	IN.
XMRP	1076.6900	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

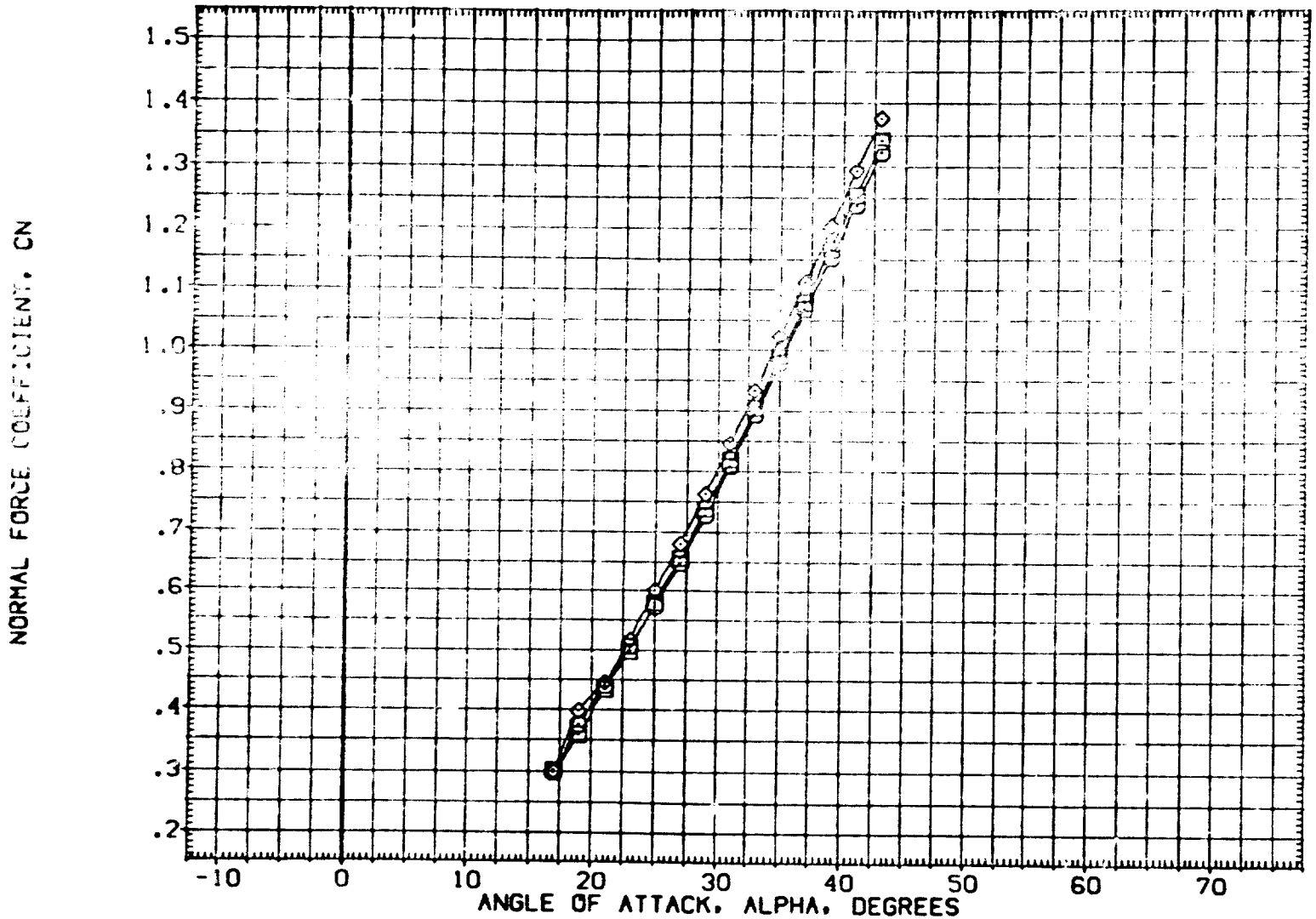


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(CTV059)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	.500
(CTV057)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.500
(CTV058)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.8800	IN.
XMRP	1076.0900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

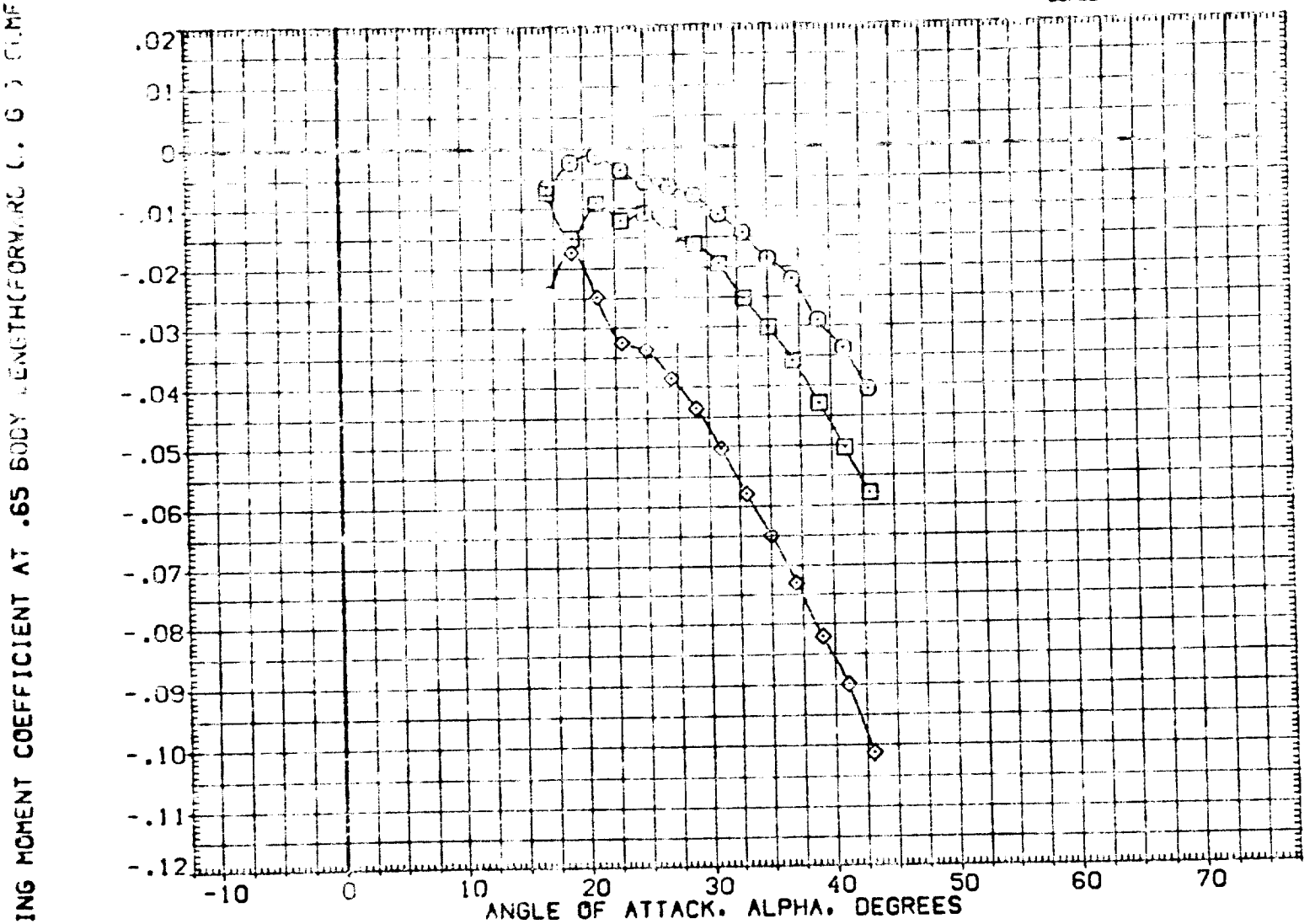


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

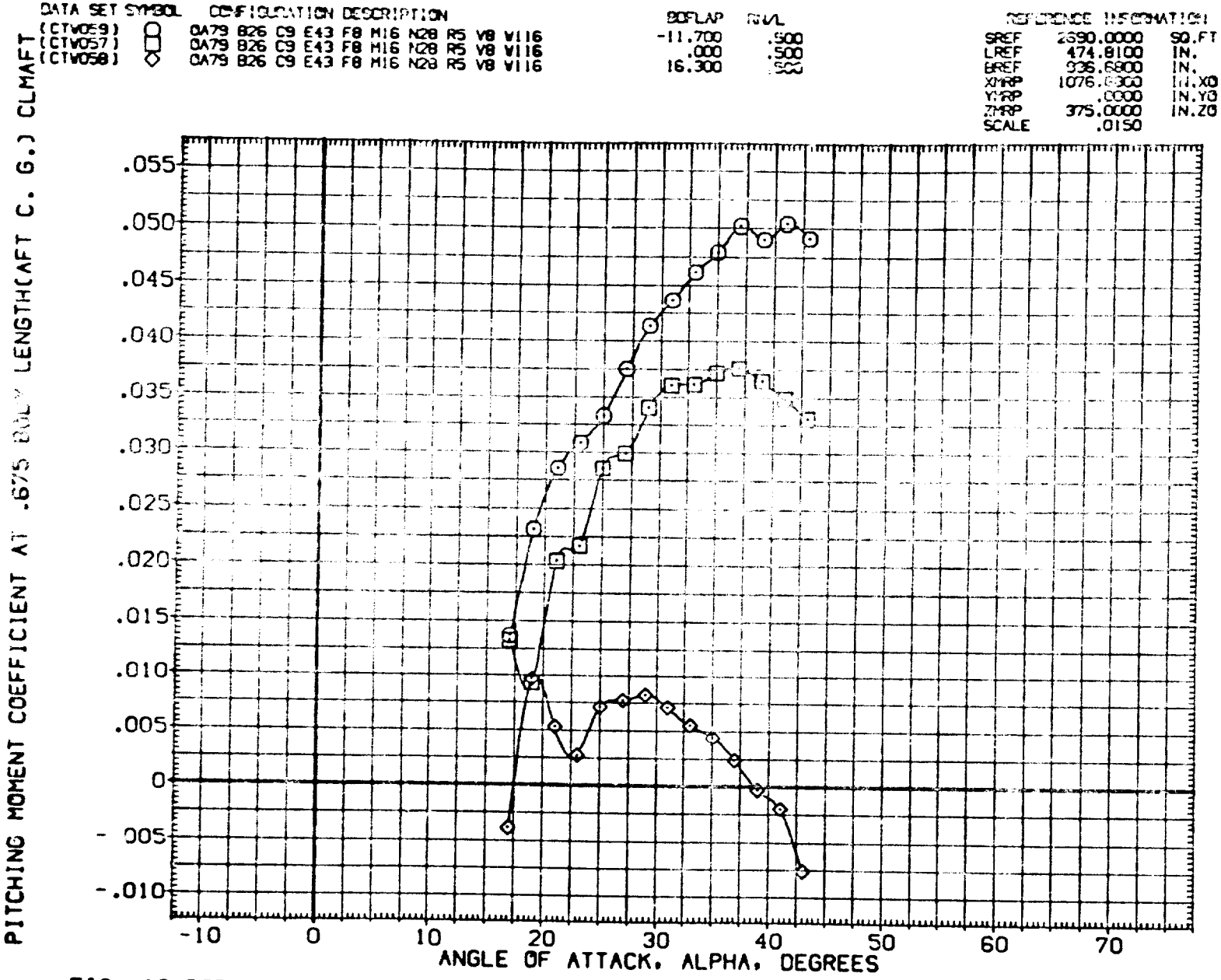


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RNVL
(CTV059)	○	OA79 B26 C9 E43 F8 M16 N20 R5 V8 W16	-11.700	.500
(CTV057)	□	OA79 B26 C9 E43 F8 M16 N20 R5 V8 W16	.000	.500
(CTV058)	◇	OA79 B26 C9 E43 F8 M16 N20 R5 V8 W16	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6600	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

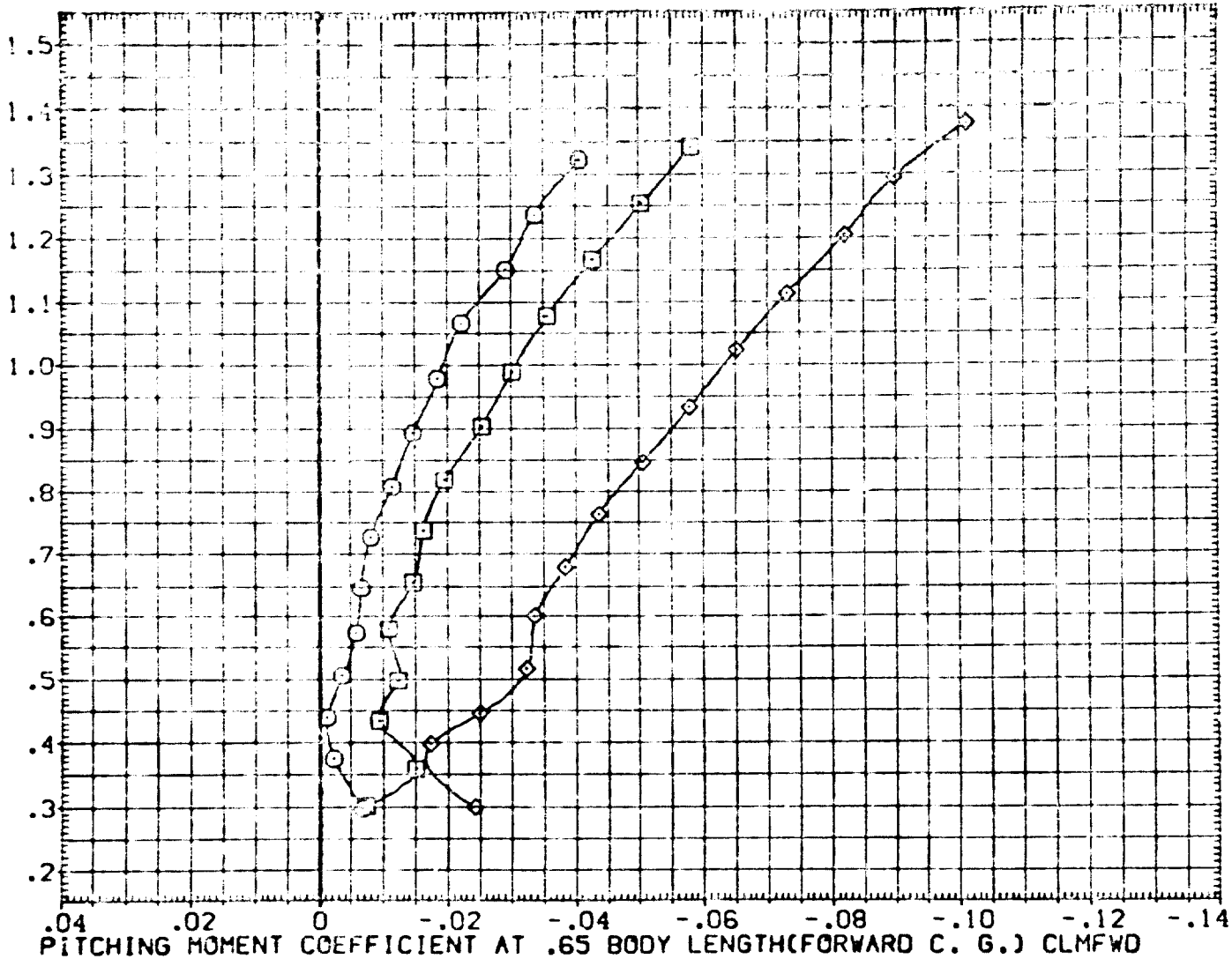


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BUFLAP	INVL
(CTV059)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	.500
(CTV057)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.500
(CTV058)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.0000	IN.
XMRP	1075.9100	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

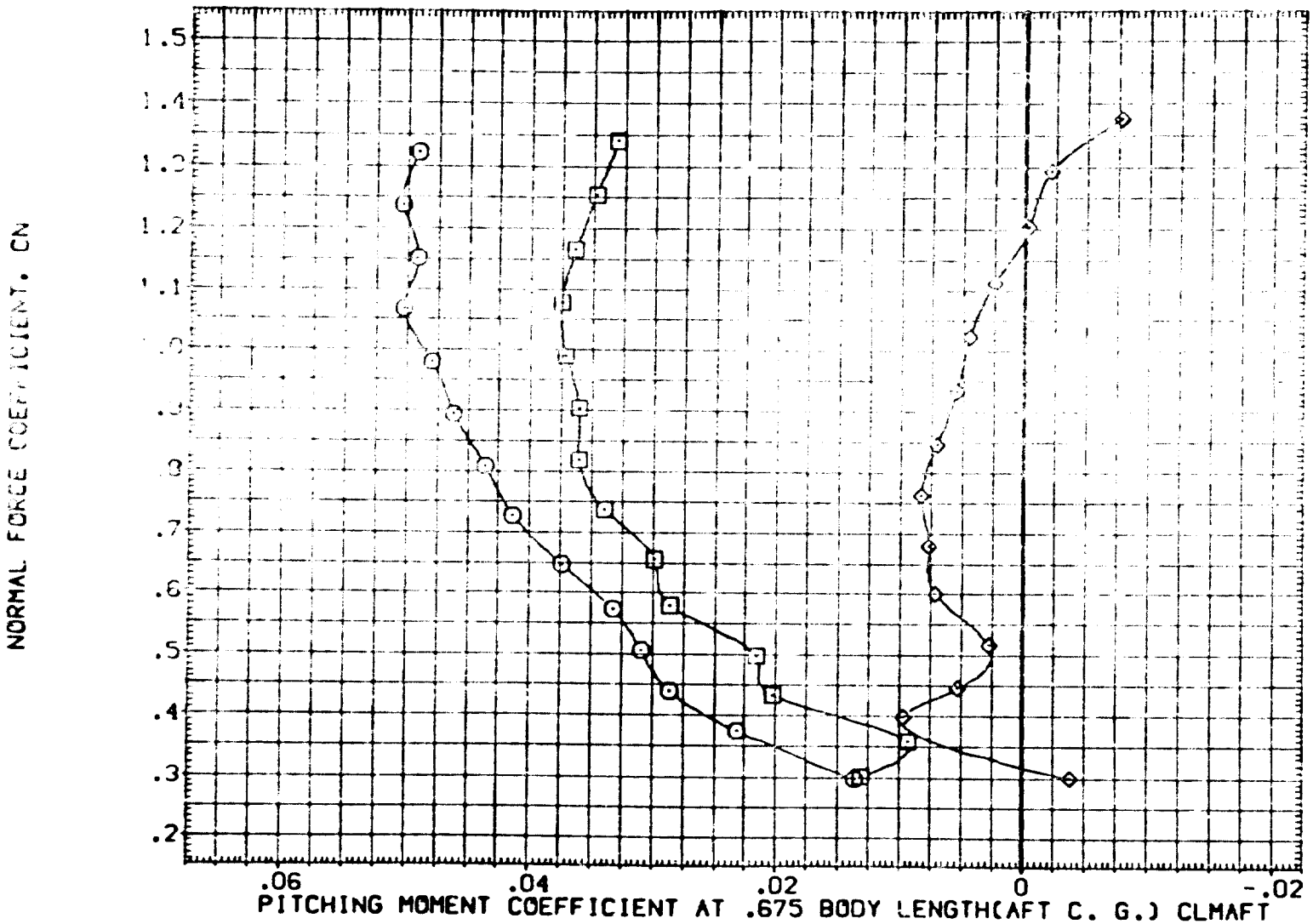


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RN/L
(CTV059)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	-11.700	.500
(CTV057)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	.000	.500
(CTV058)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16	16.300	.500

REFERENCE INFORMATION

SREF	7690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	935.6300	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

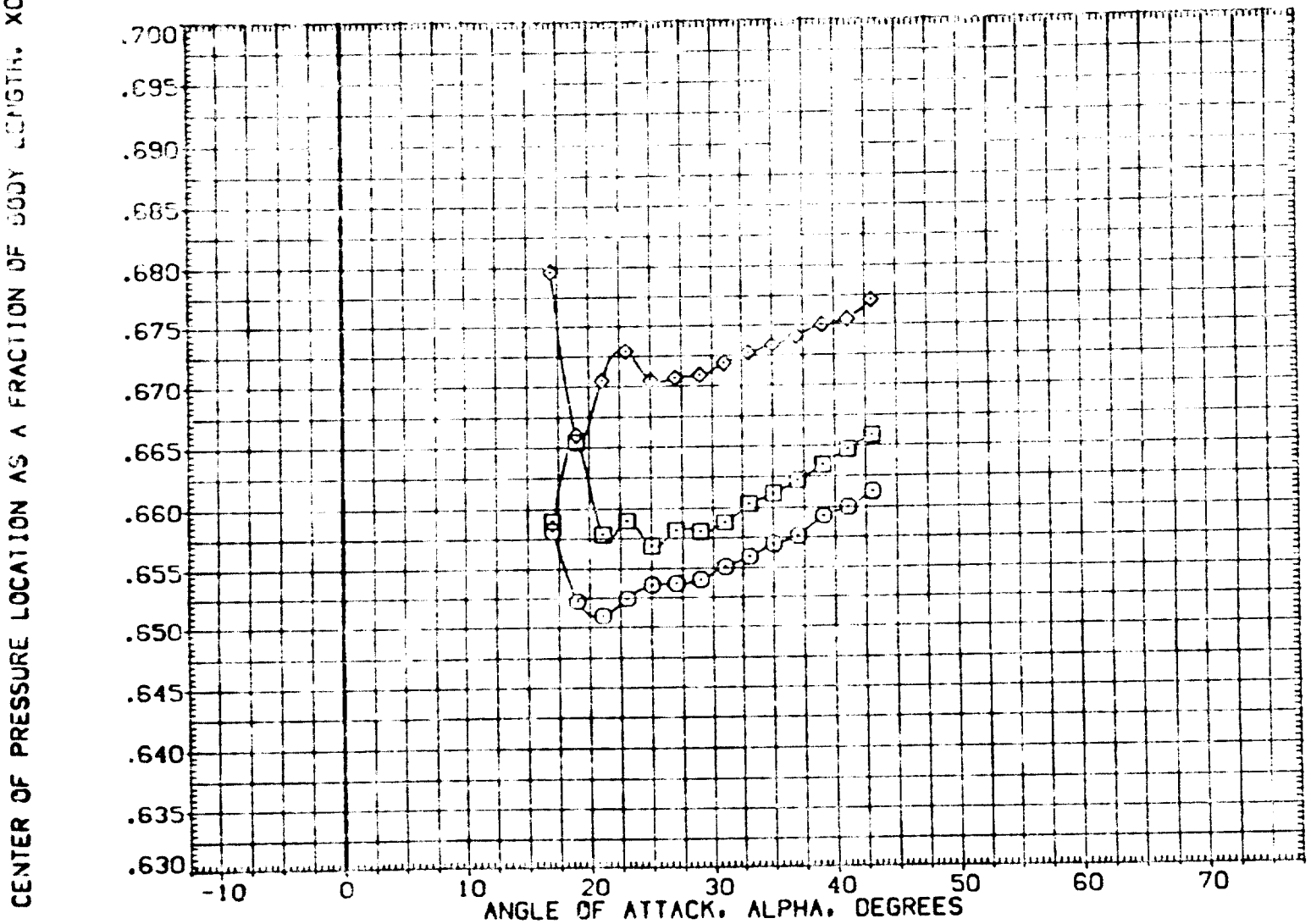


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

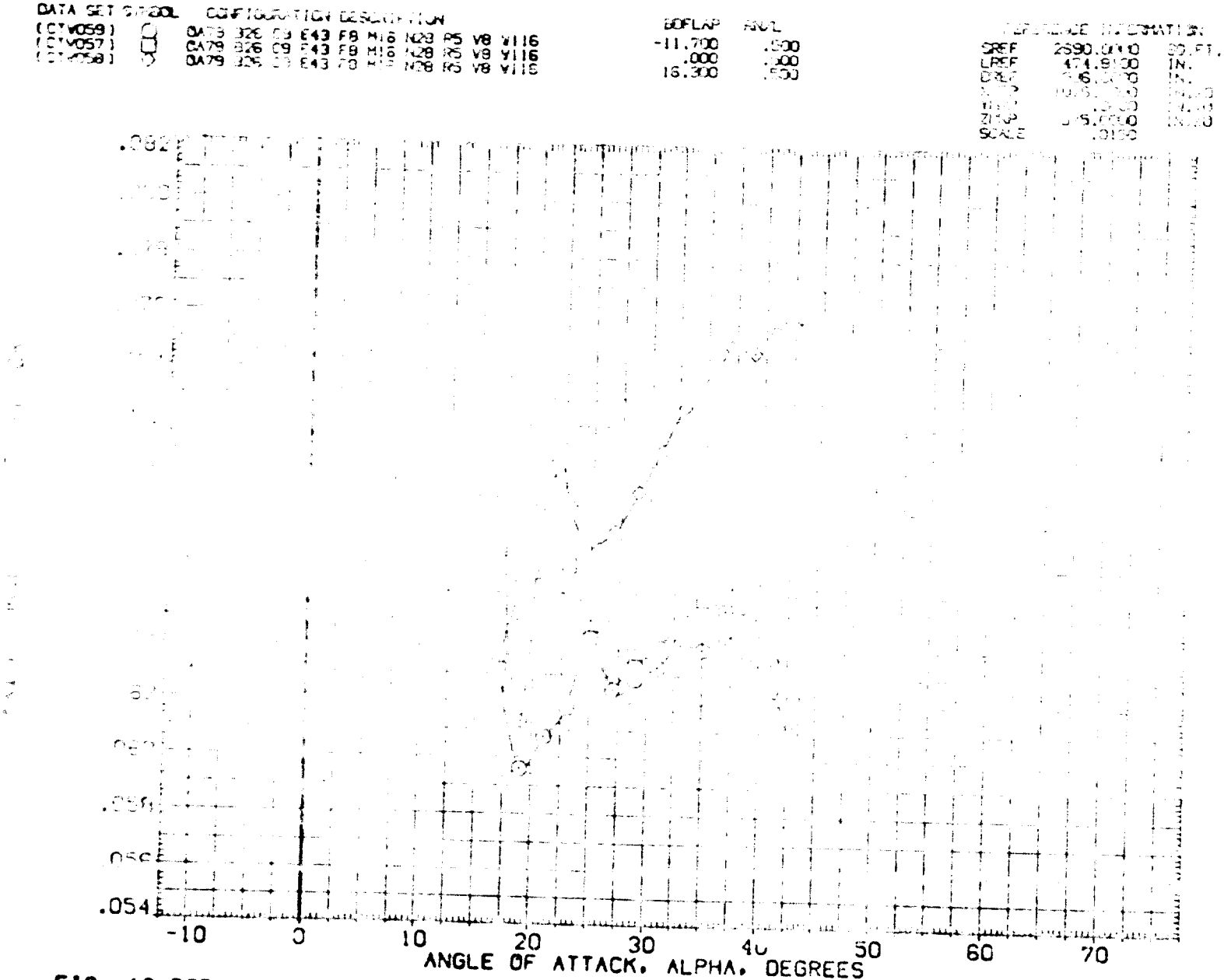


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BDFLAP	RNVL
(CTV059)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	.500
(CTV057)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.500
(CTV058)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.0300	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

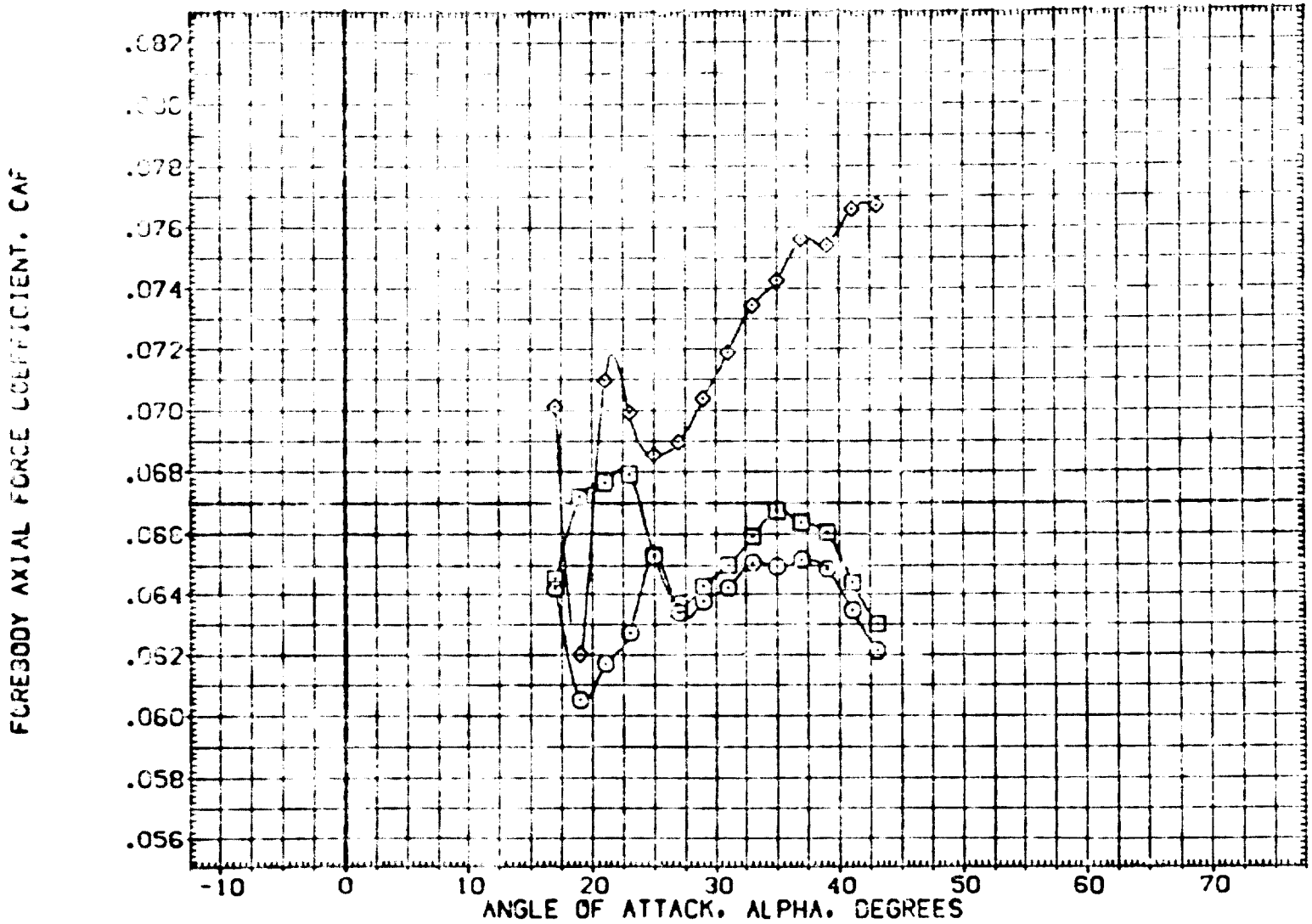


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

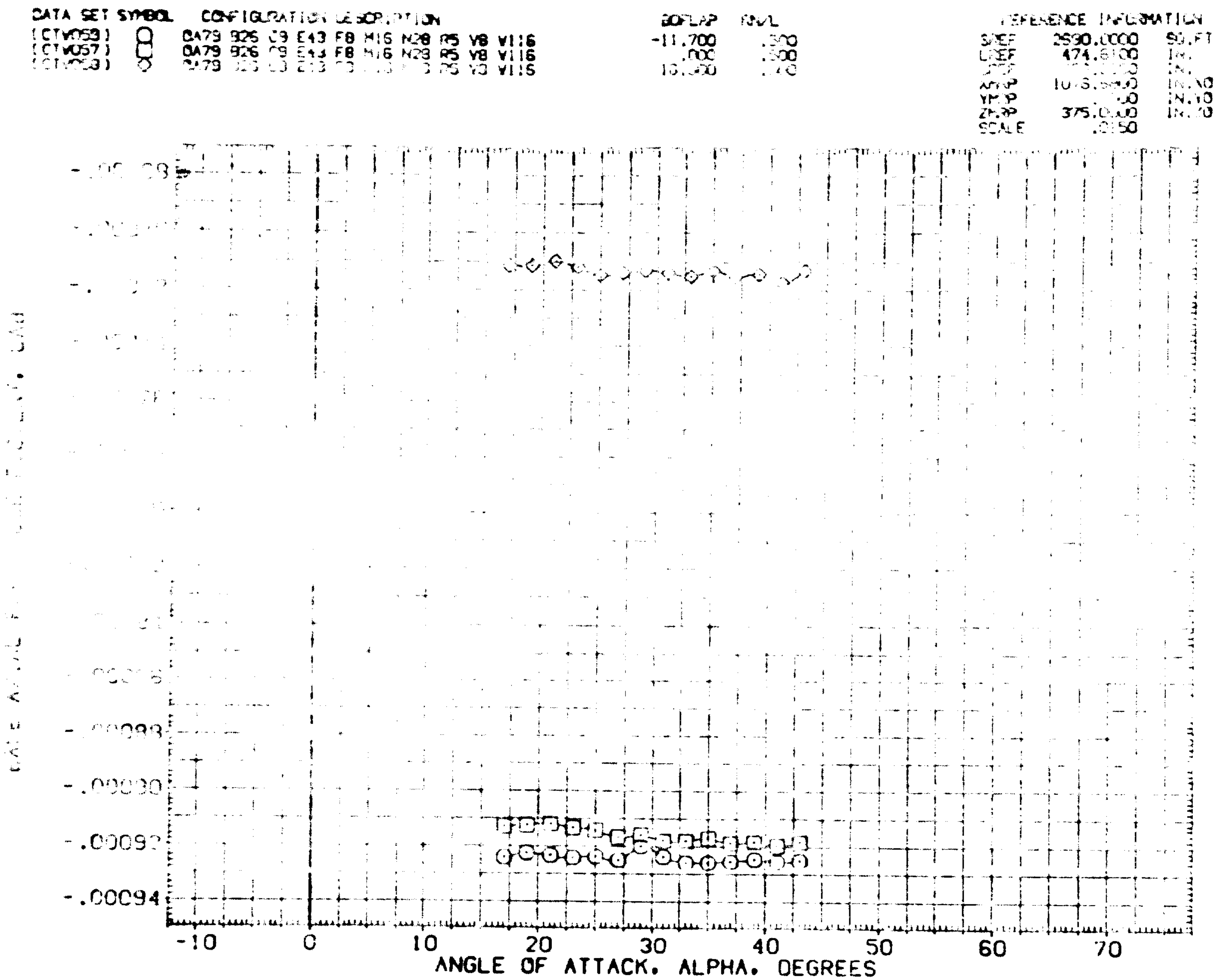


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	□	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
[illegible]	◇	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
[illegible]	○	BA79 B26 C9 E43 F8 H16 N28 R5 V8 V116

BDFLAP	RN/L
-11.700	.500
.000	.500
15.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	956.0800	IN.
XMRP	1076.0800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

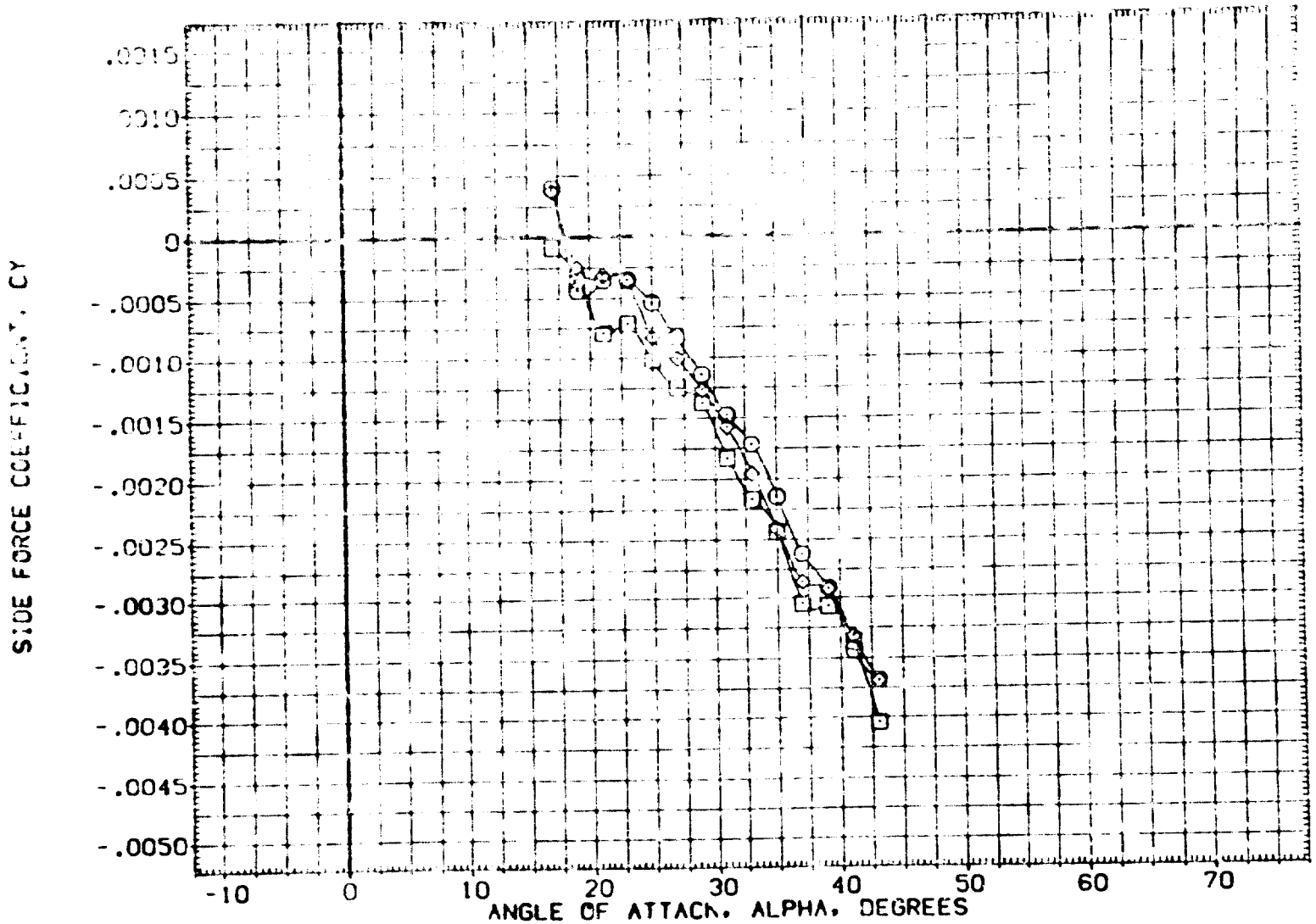


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RN/L
(ATV059)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	.500
(ATV057)	◇	BA79 B26 C9 E43 F8 M16 N23 R5 V8 V116	.000	.500
(ATV058)	◇	BA79 B26 C9 E43 F8 M16 N23 R5 V8 V116	16.300	.500

REFERENCE INFORMATION		
SREF	2030.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.2500	IN.
XMRP	1076.8900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

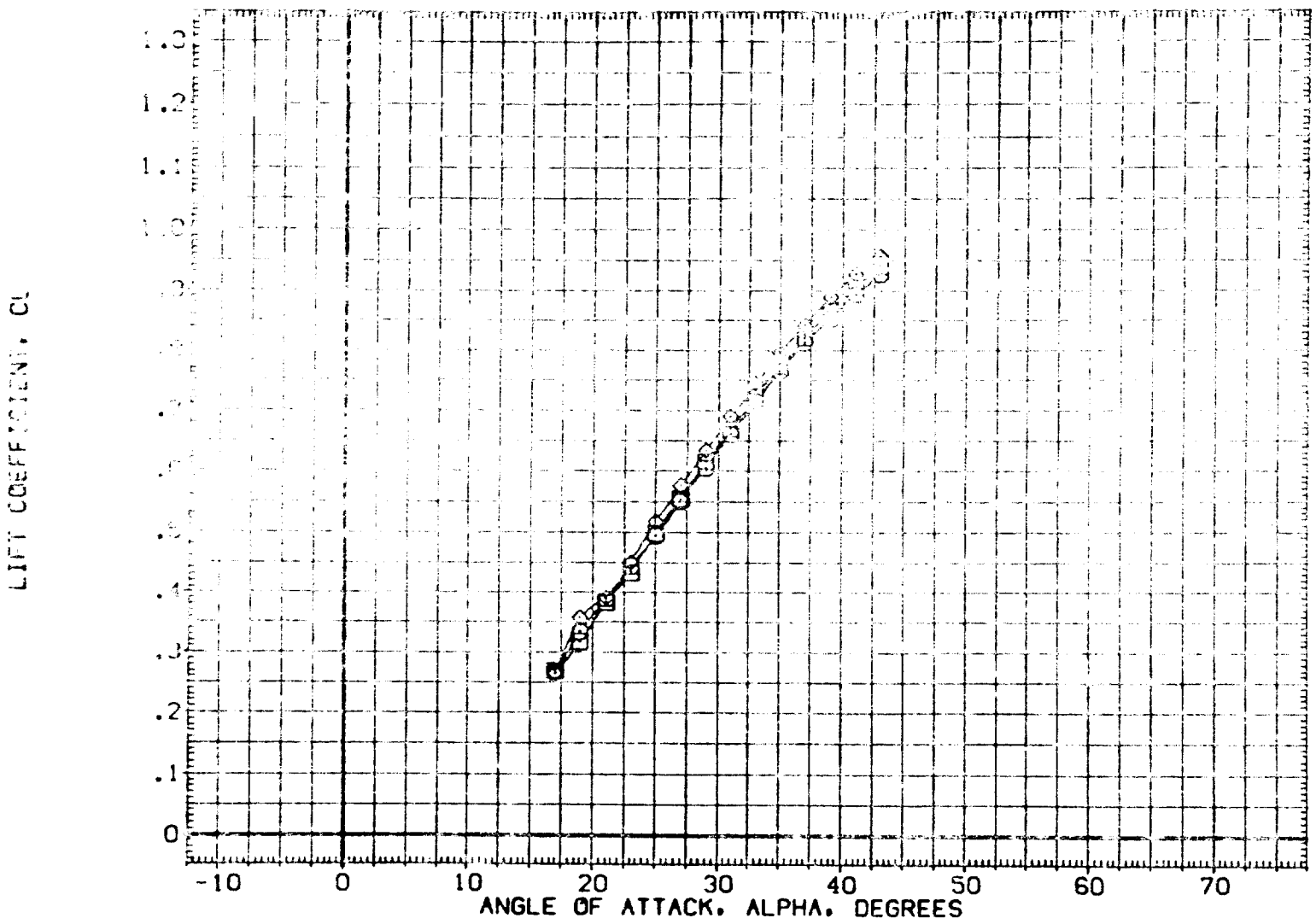


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RNVL
(ATW059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	.500
(ATW057)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.500
(ATW058)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6300	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

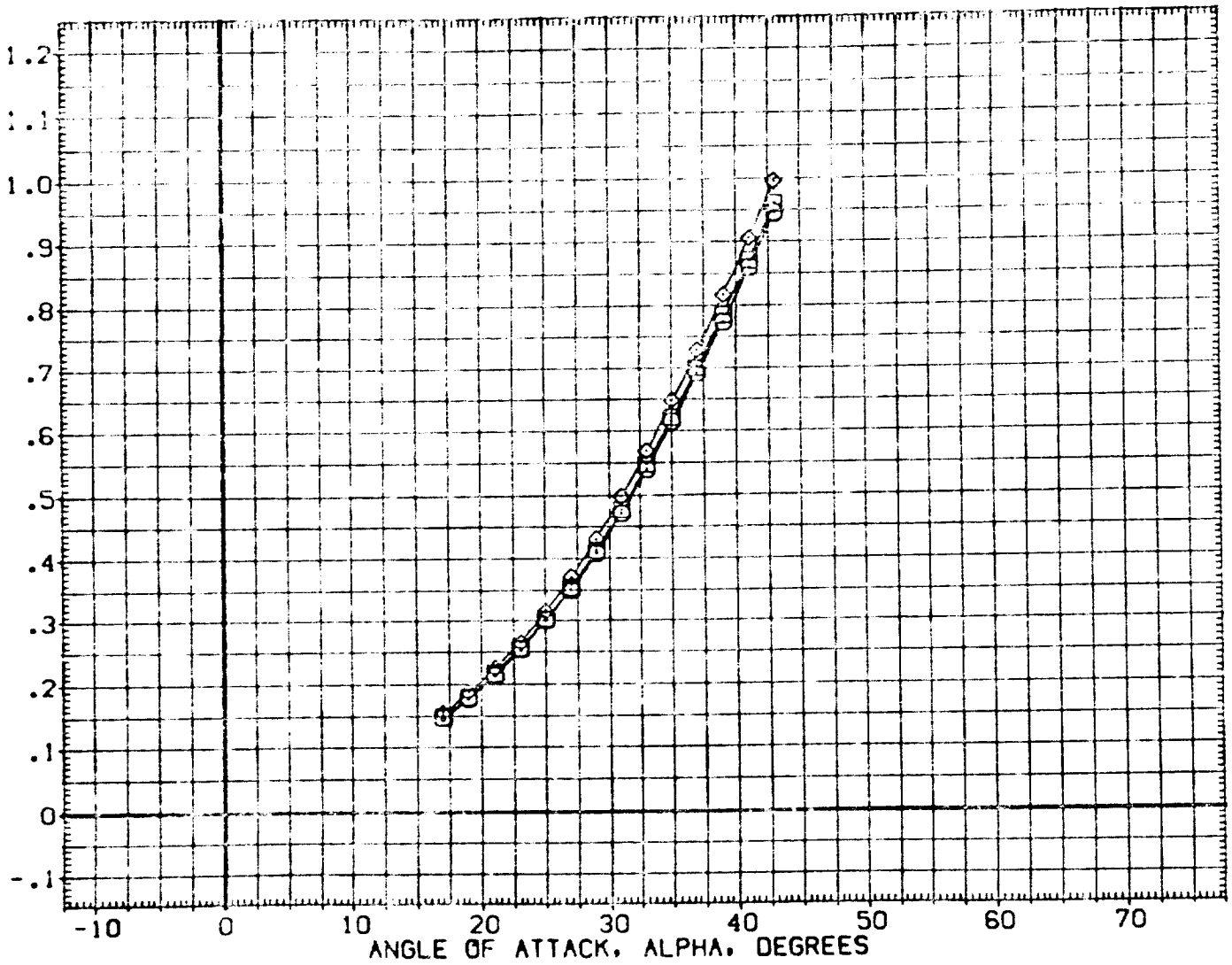


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RNVL
(ATV059)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	-11.700	.500
(ATV057)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.000	.500
(ATV058)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	15.300	.500

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	174.8100	IN.
BREF	905.0000	IN.
XMRP	1076.0000	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

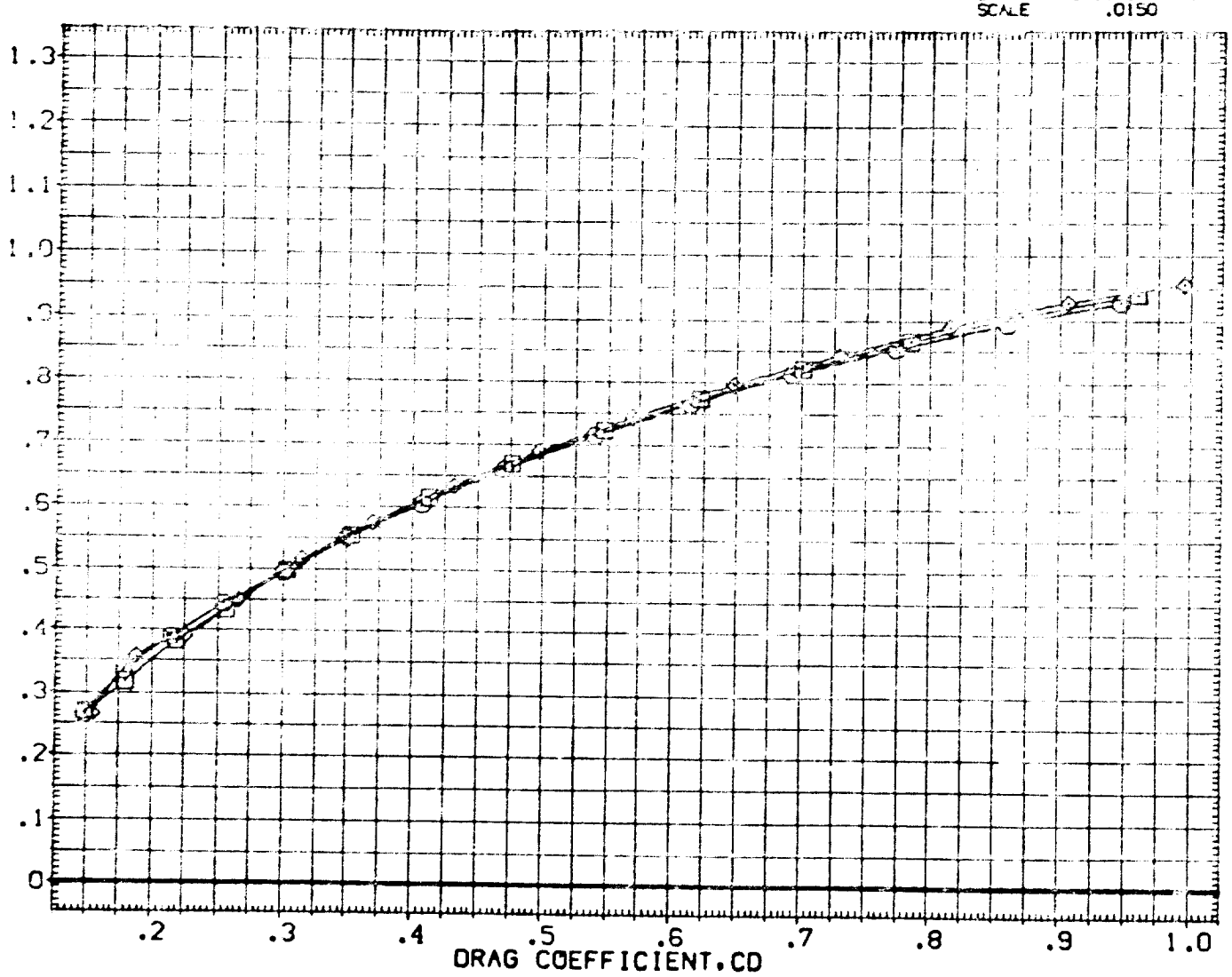


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	RN/L
(ATW059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	-11.700	.500
(ATW057)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.000	.500
(ATW058)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	16.300	.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6300	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

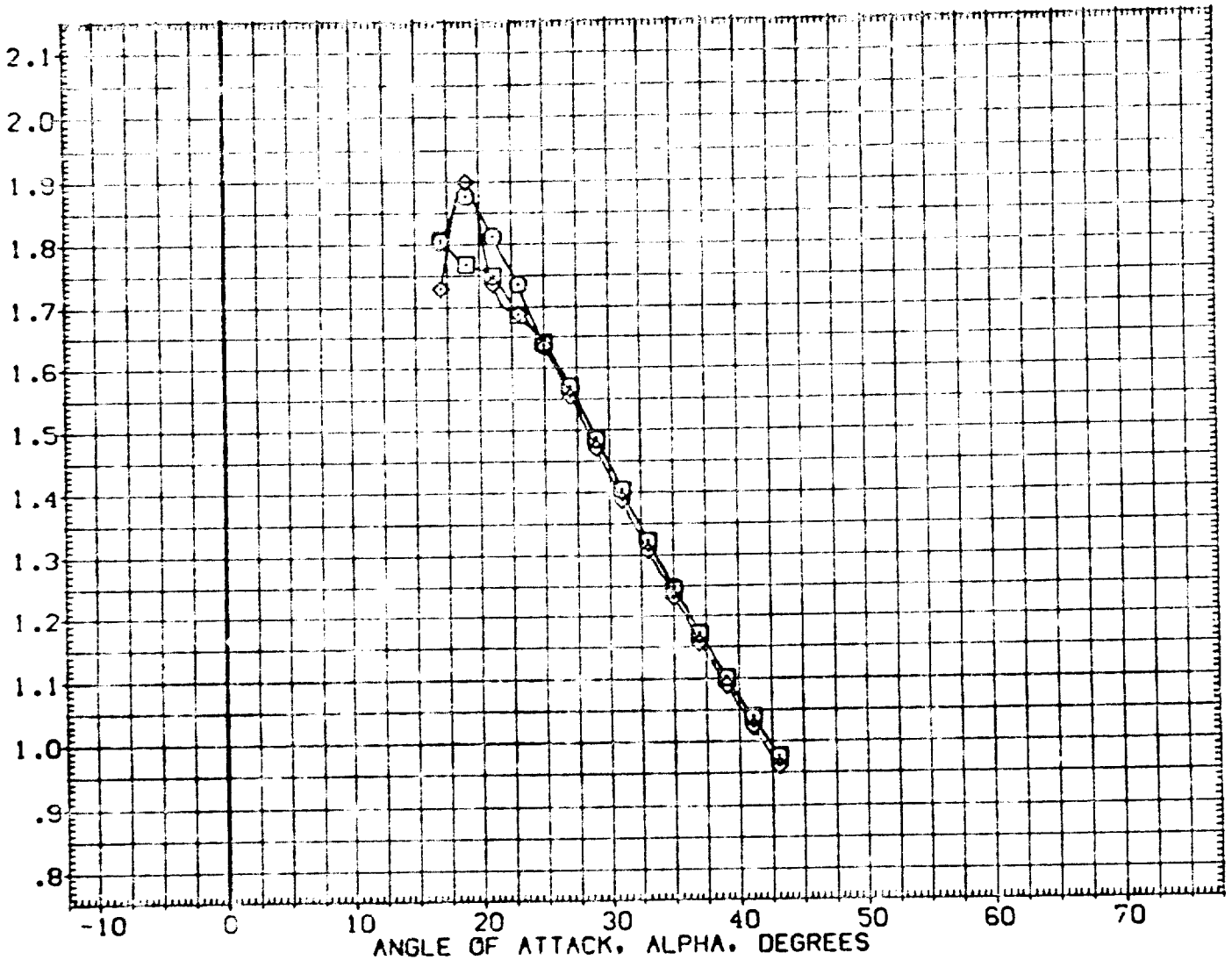


FIG. 19 BODY FLAP EFFECTIVENESS (REYNOLDS NUMBER = 0.50)

(A)MACH = 7.90

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	ELV-L0	.000	ELV-L1	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	21.000	ELV-R1	.000	ELV-R0	.000	DTW058	16.300			BREF	595.6800	IN.
△	23.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▷	25.000	RNYL	.500							YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

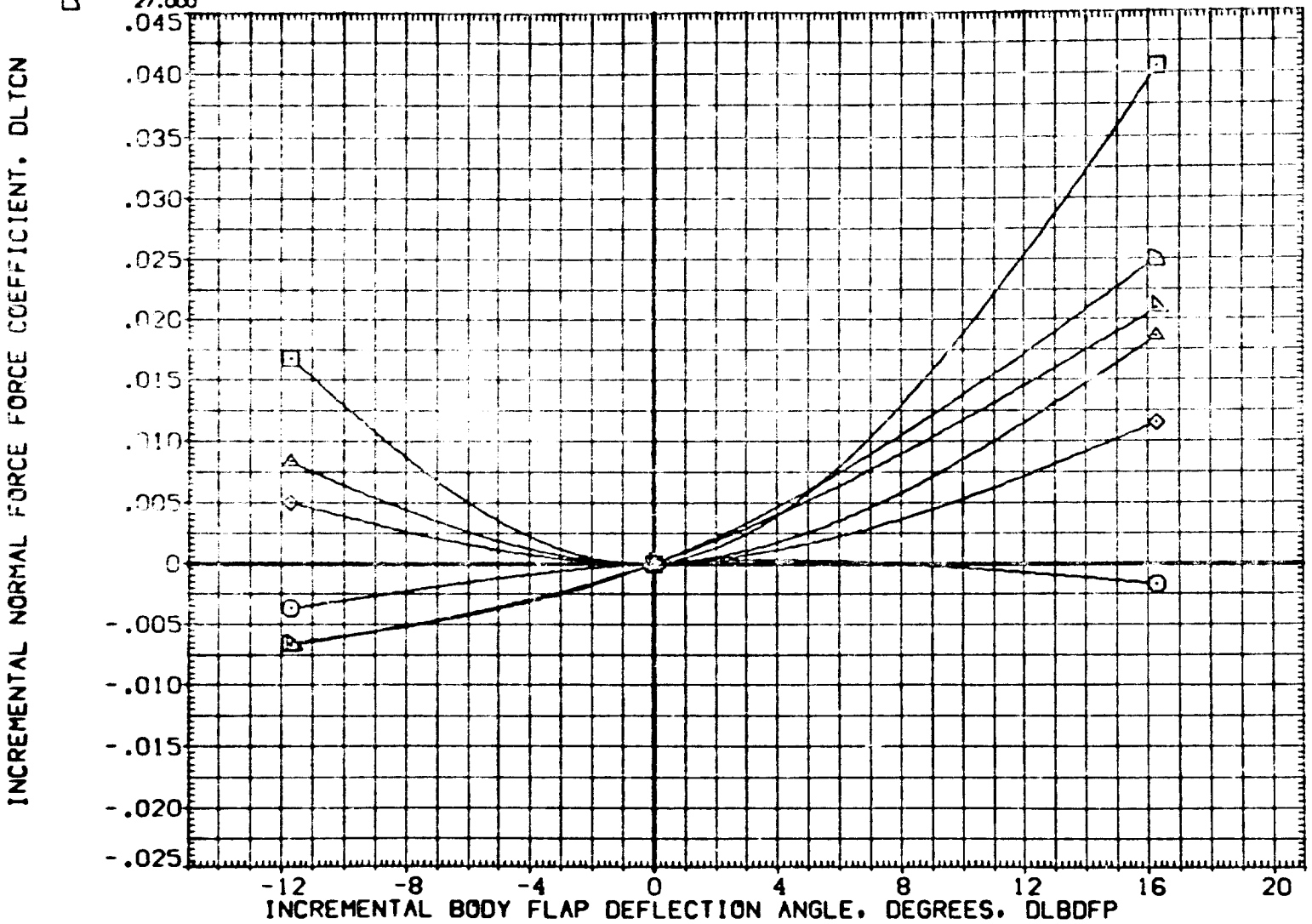


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

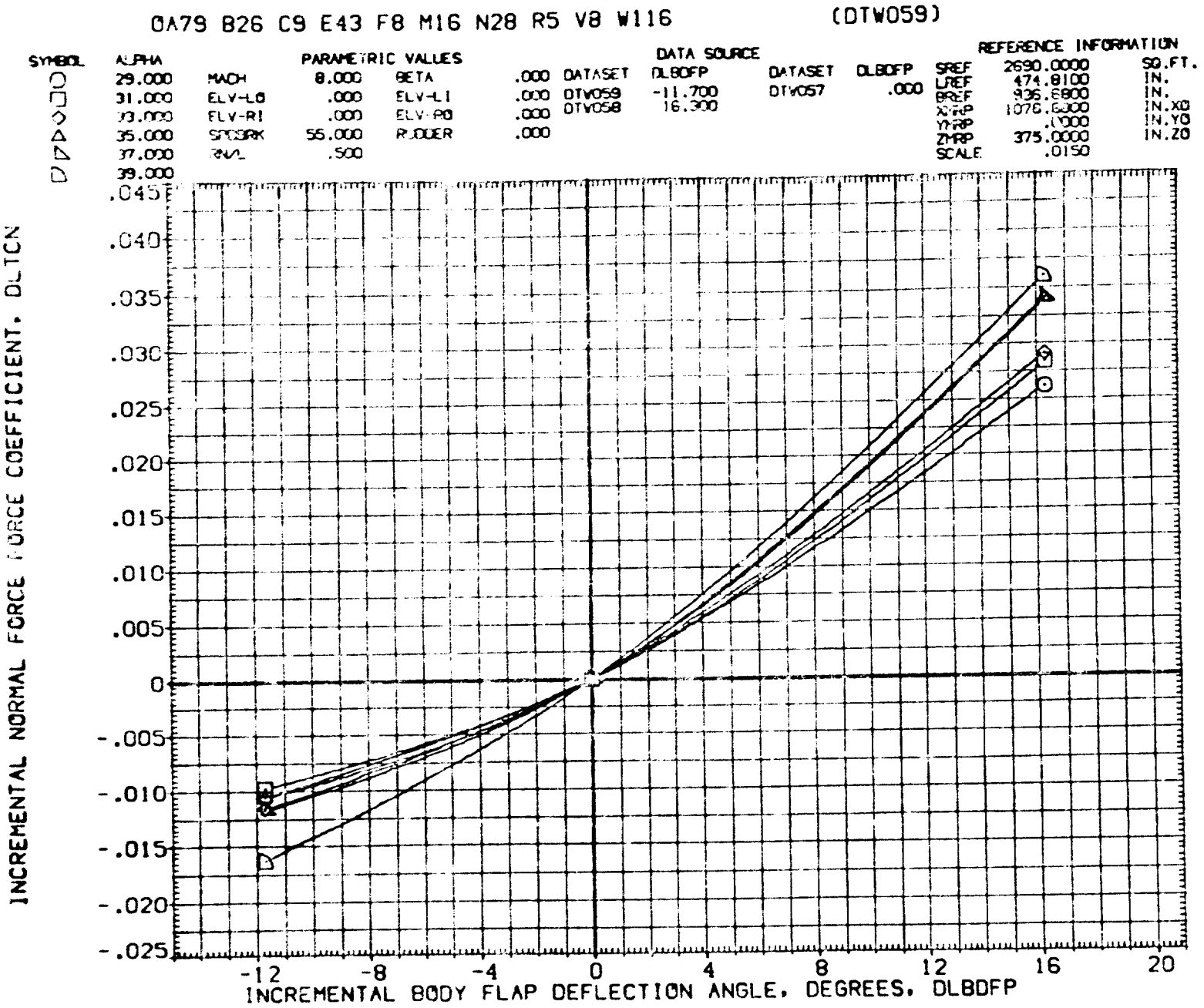


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

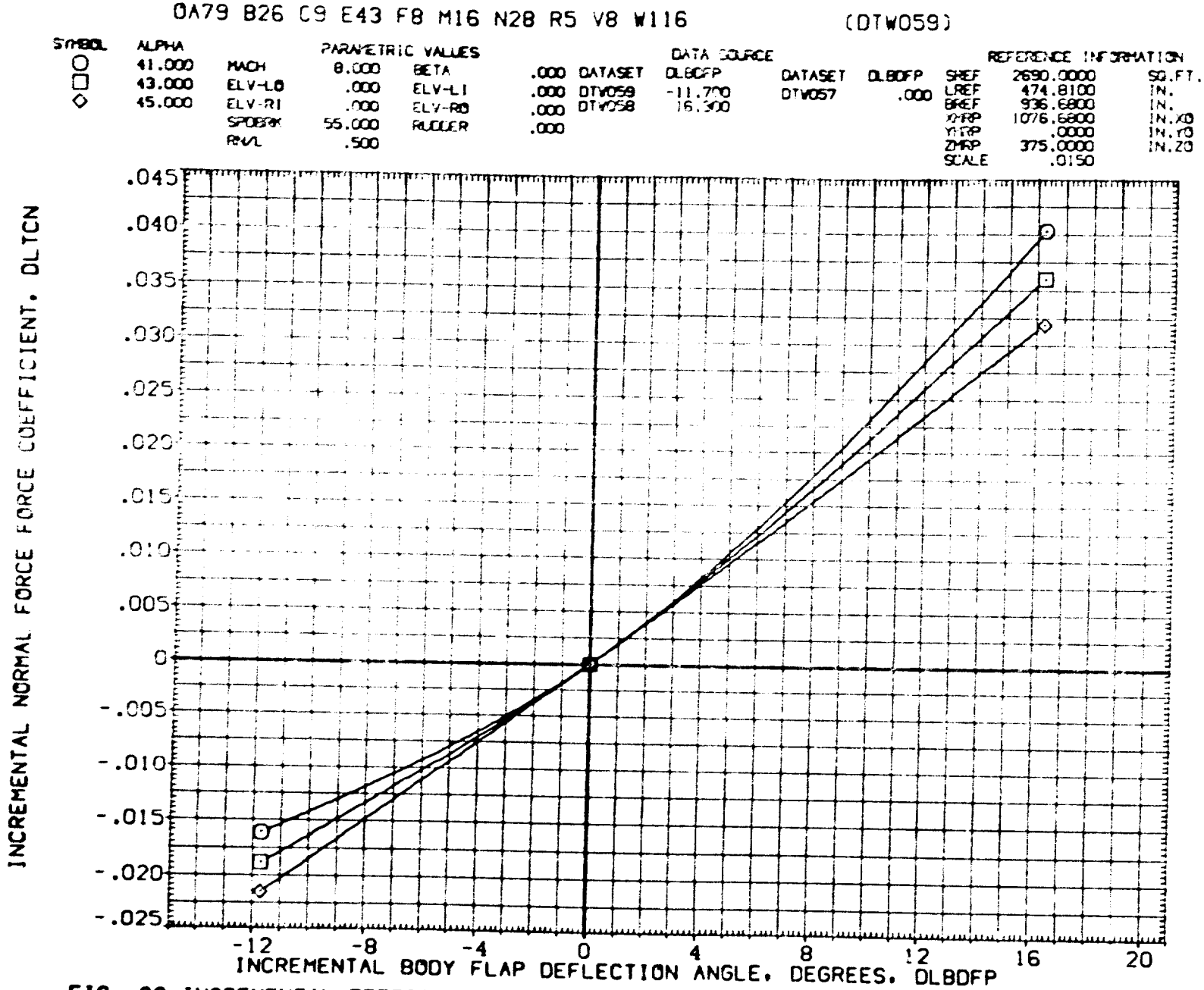


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

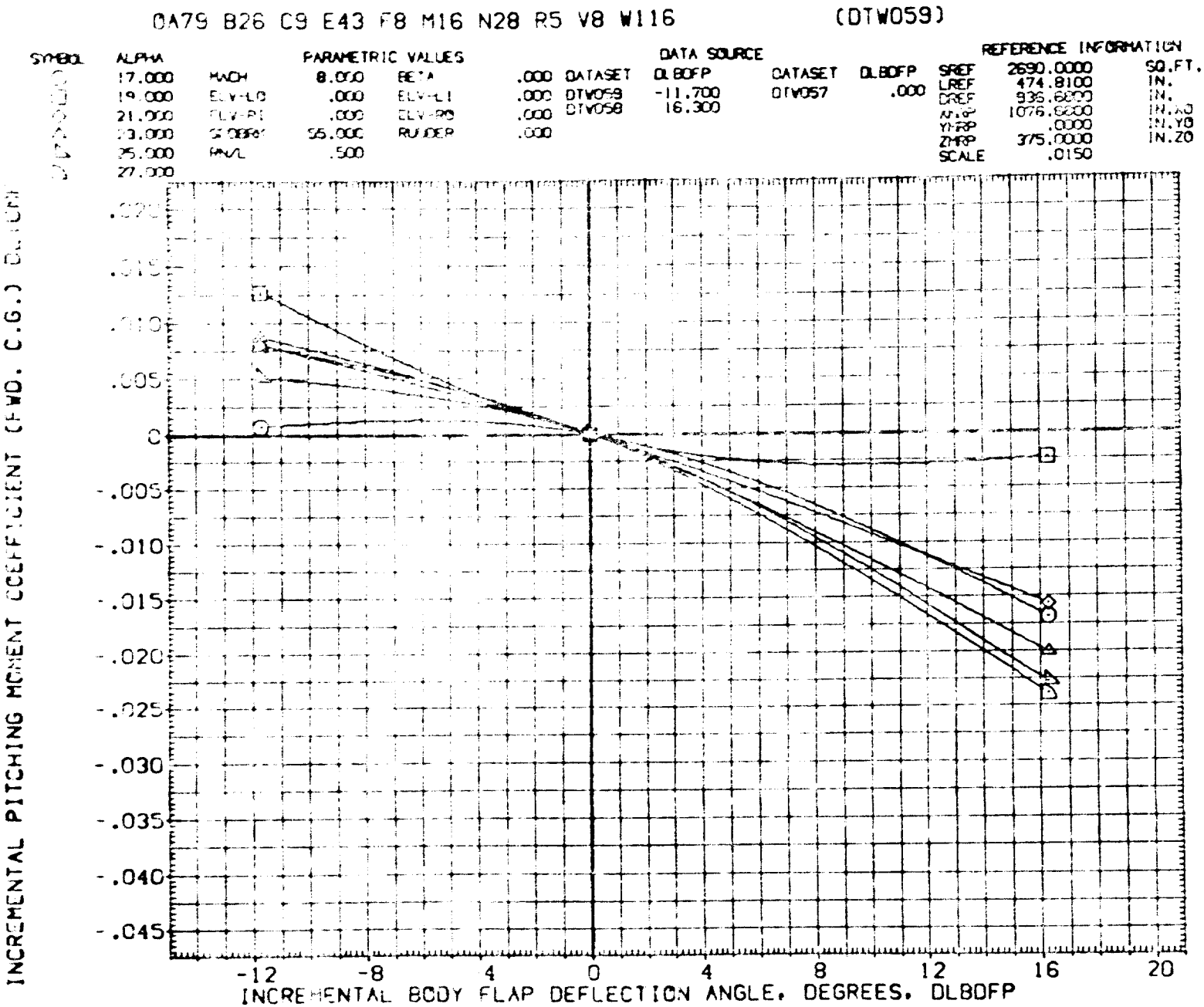


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF	936.6800	IN.
△	35.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6300	IN.XB
▽	37.000	RNYL	.500							YMRP	.0000	IN.YB
▷	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

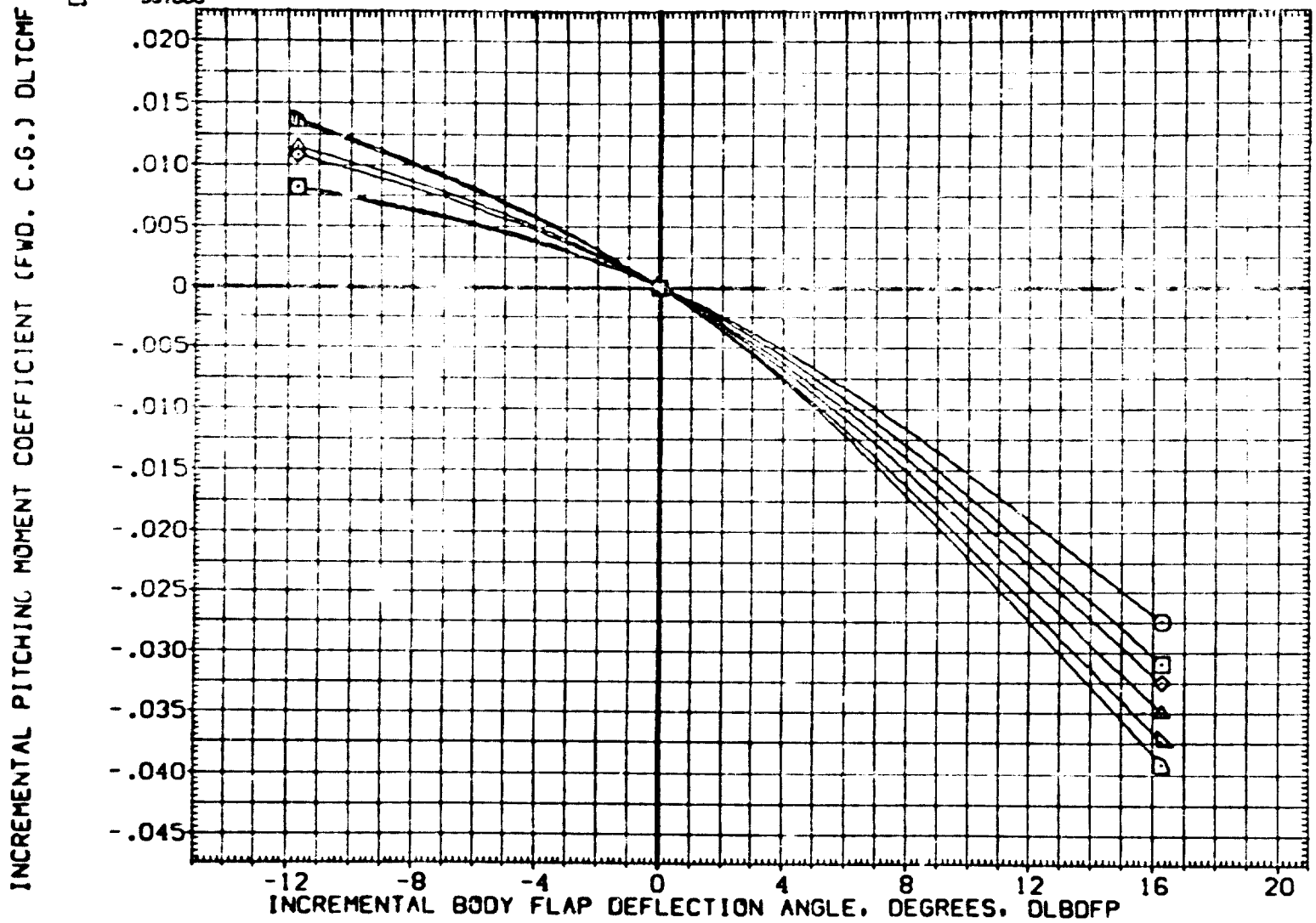


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTV055	-11.700	GTV057	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTV058	16.300			BREF	936.6800	IN.
		SPDBRK	55.000	RUDDER	.000					XMRP	1076.6300	IN.XO
		RN/L	.500							YMRP	.0000	IN.YO
										ZMRP	375.0000	IN.ZO
										SCALE	.0150	

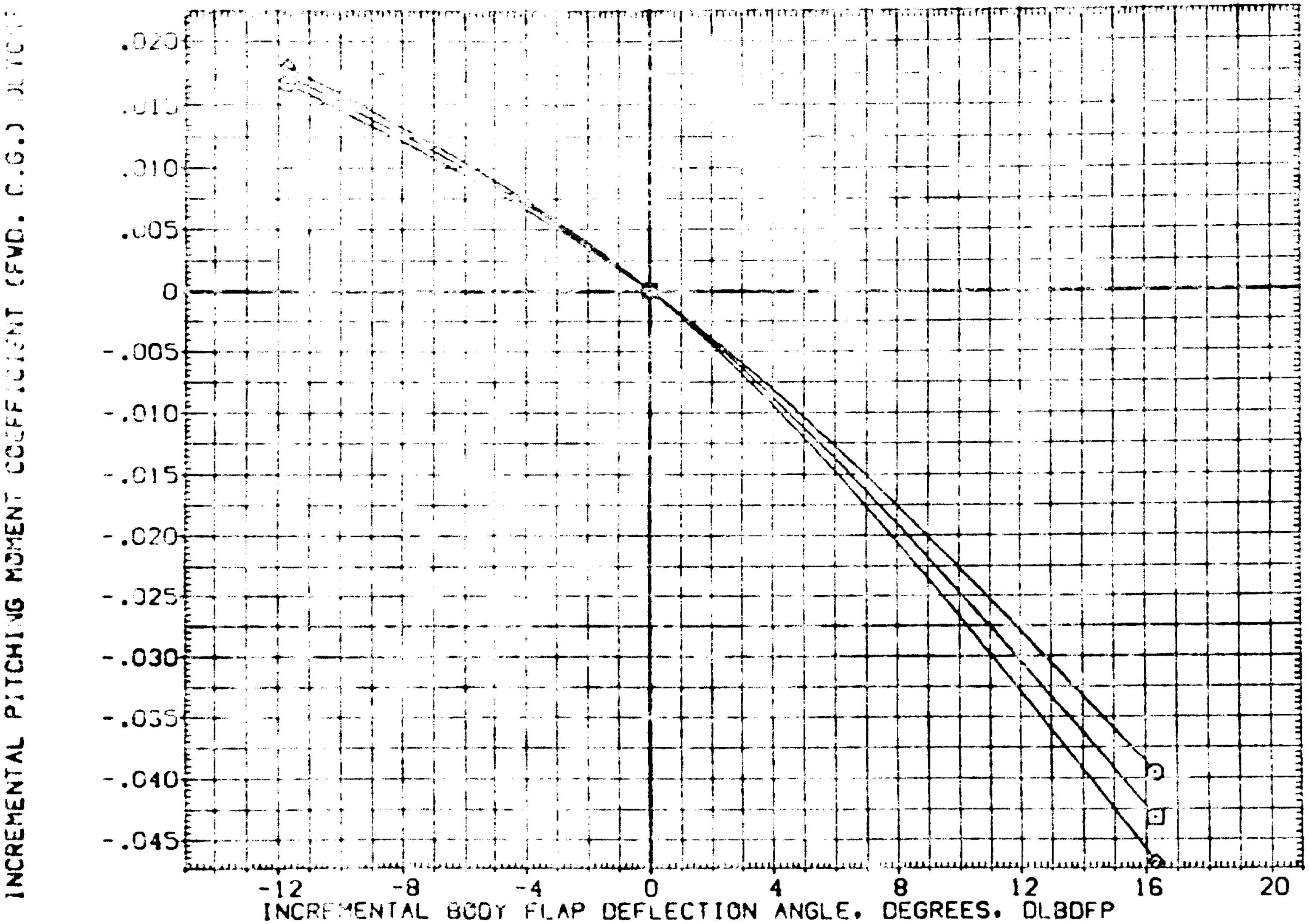


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

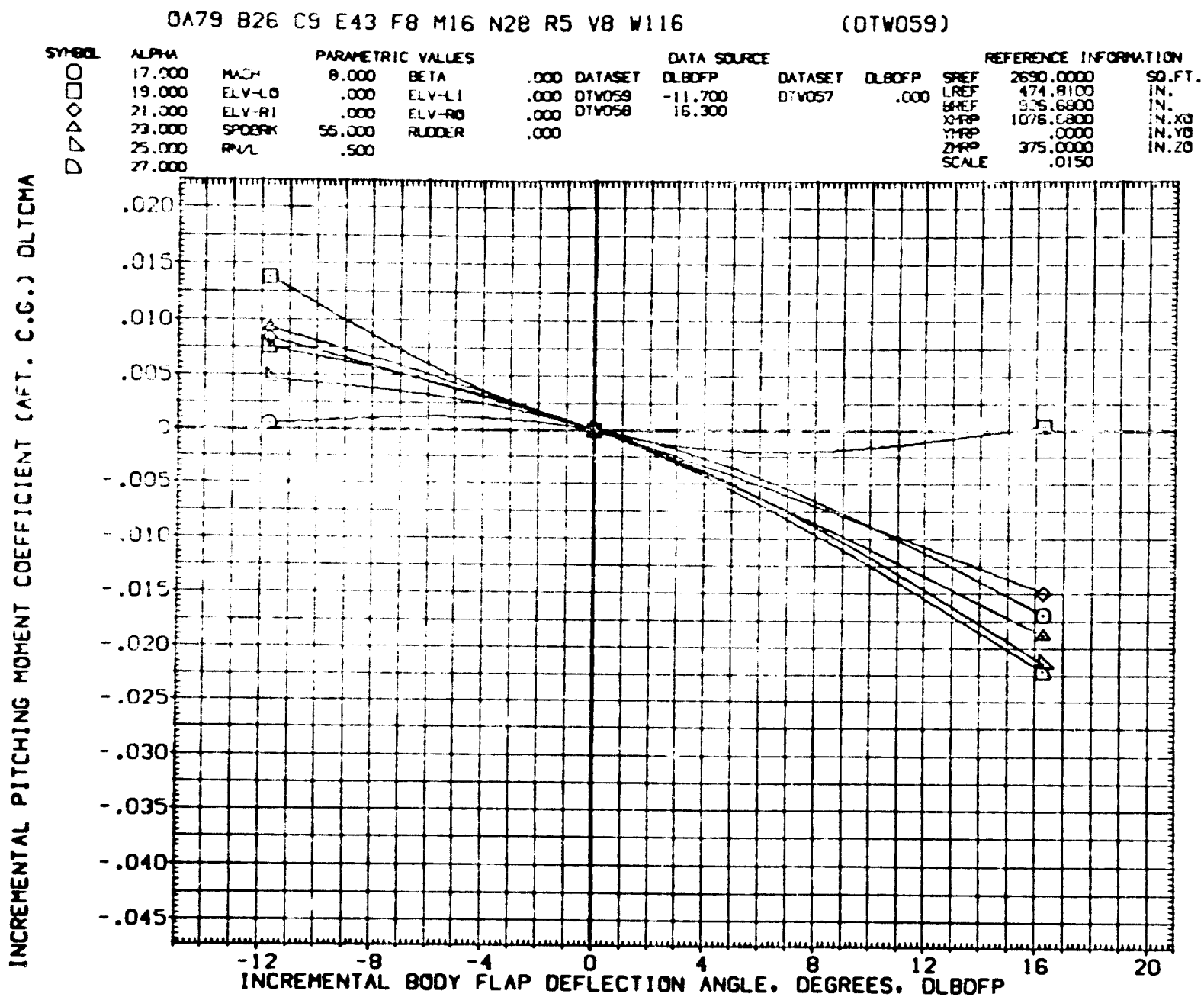


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

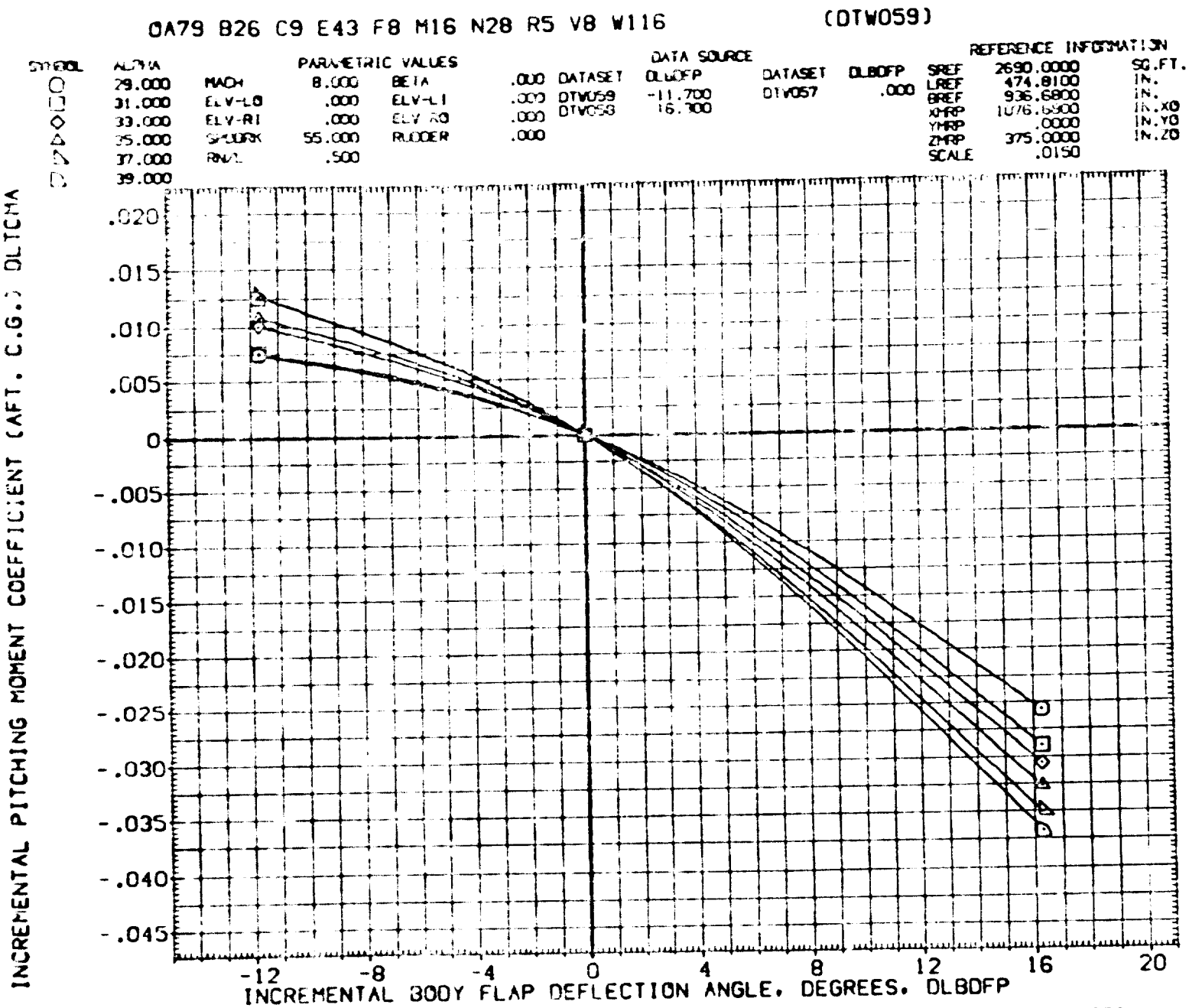


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	41.000	MACH	0.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	45.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF	936.6800	IN.
		SPOBRK	56.000	RUDDER	.000					XMRP	1016.3800	IN.X0
		RNVL	.500							YMRP	.0000	IN.Y0
										ZMRP	375.0000	IN.Z0
										SCALE	.0150	

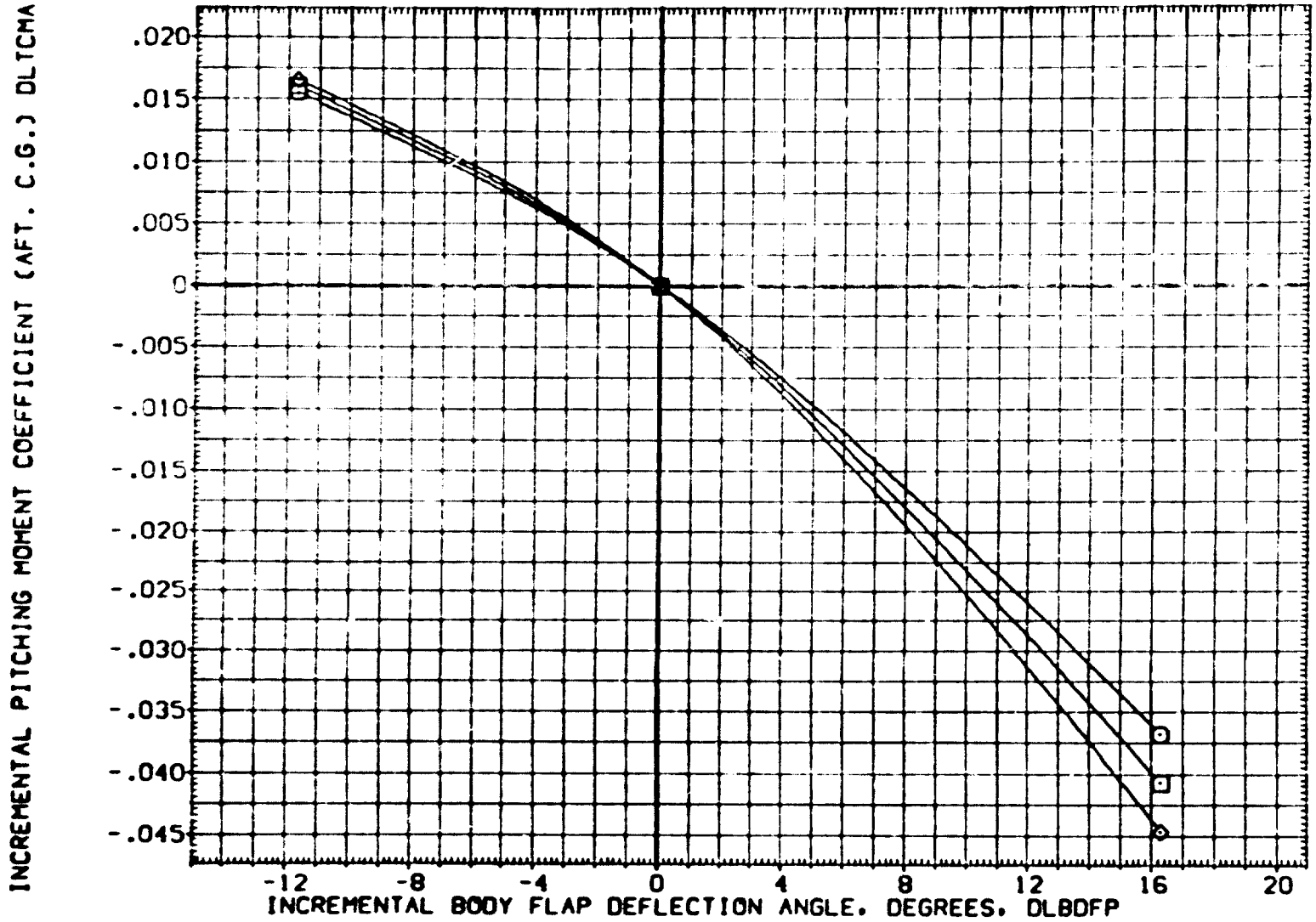


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
▽	17.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
△	19.000	ELV-L0	.000	ELV-L1	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	21.000	ELV-R1	.000	ELV-R0	.000	DTW058	16.300			BREF	936.6800	IN.
□	23.000	SPOIRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
○	25.000	RNYL	.500							YMRP	.0000	IN.YB
	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

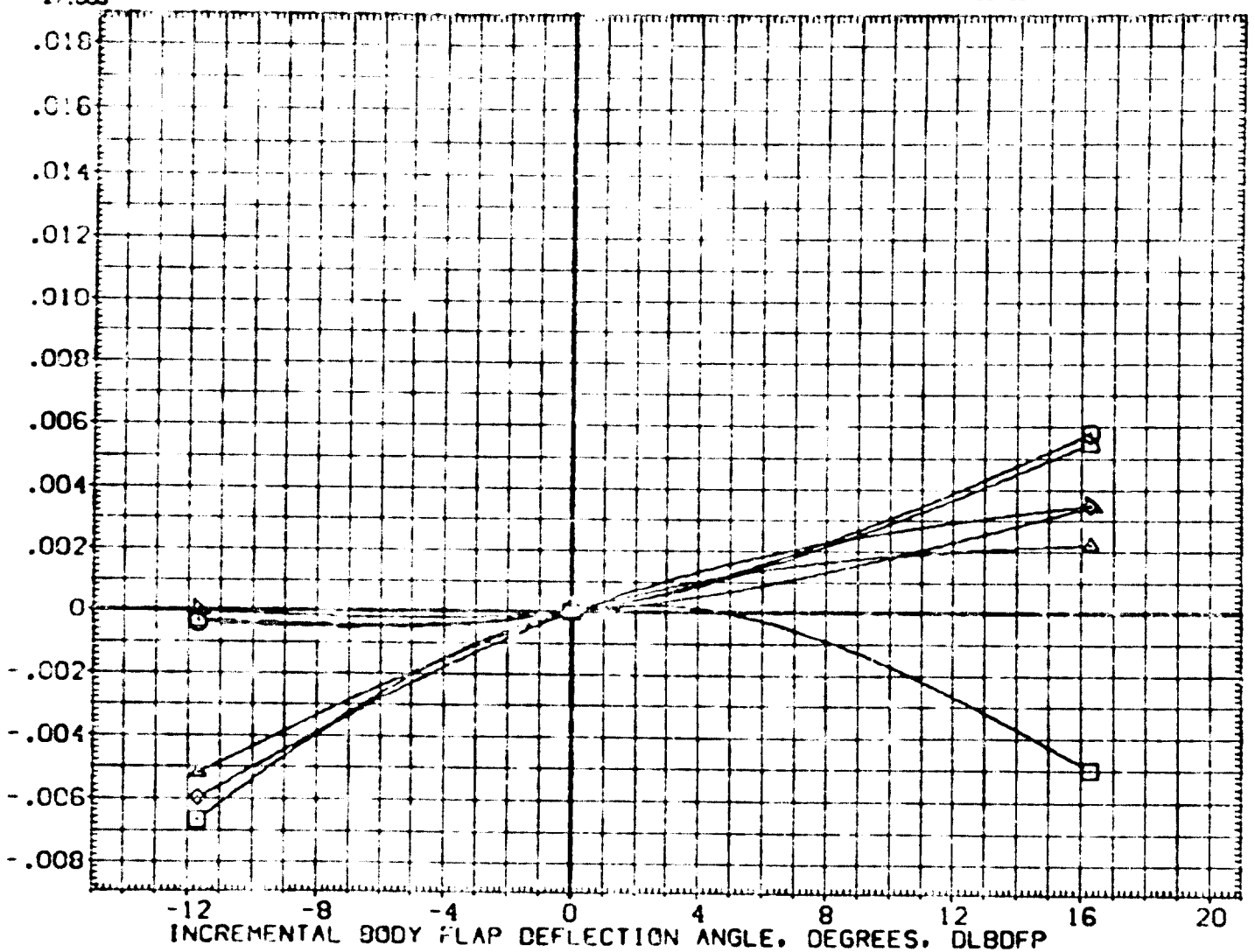


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	29.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	31.000	ELV-LO	.000	ELV-LI	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	33.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF	936.6800	IN.
△	35.000	SPDBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▱	37.000	RN/L	.500							YMRP	.0000	IN.YB
▱	39.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

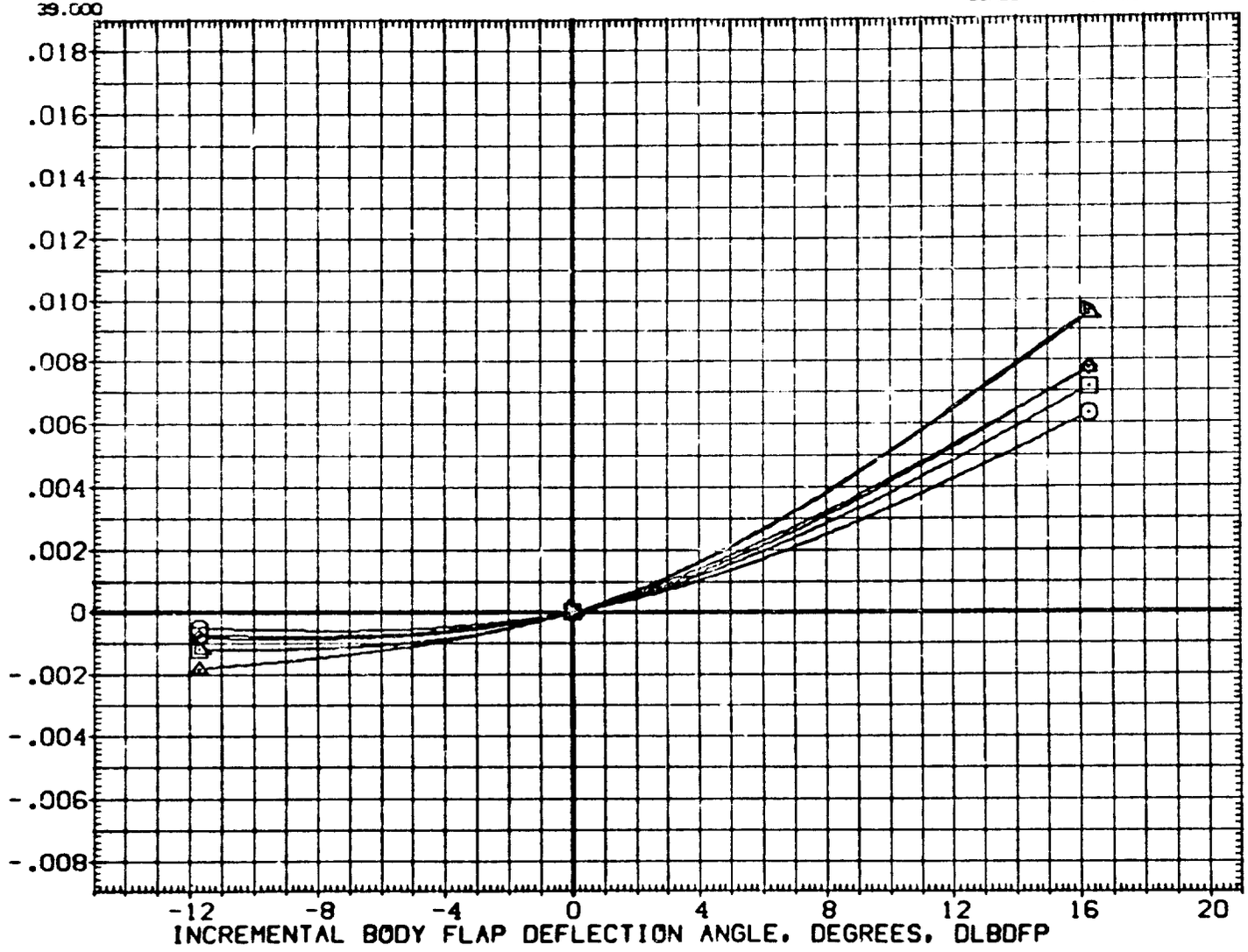


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
◇	41.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	43.000	ELV-LO	.000	ELV-LI	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
○	45.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF	936.6200	IN.
		SPOIRK	55.000	RUDDER	.000					XMRP	1076.5300	IN.XB
		RN/L	.500							YMRP	.0000	IN.YB
										ZMRP	375.0000	IN.ZB
										SCALE	.0150	

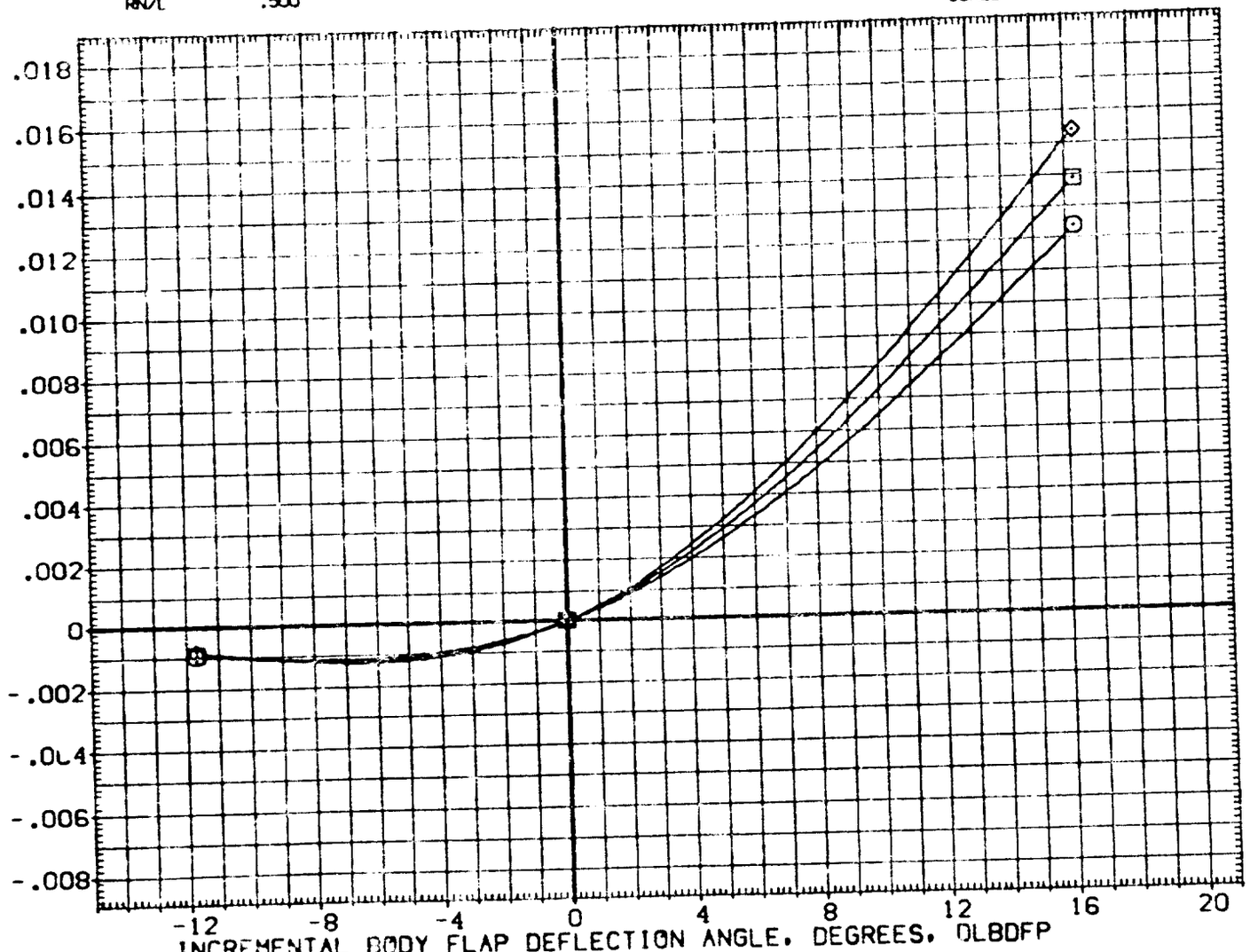


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	17.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF	2690.0000	SQ.FT.
□	19.000	ELV-LO	.000	ELV-LI	.000	DTW059	-11.700	DTW057	.000	LREF	474.8100	IN.
◇	21.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF	936.6800	IN.
△	23.000	SPOBRK	55.000	RUDDER	.000					XMRP	1076.6800	IN.XB
▷	25.000	RN/L	.500							YMRP	.0000	IN.YB
▷	27.000									ZMRP	375.0000	IN.ZB
										SCALE	.0150	

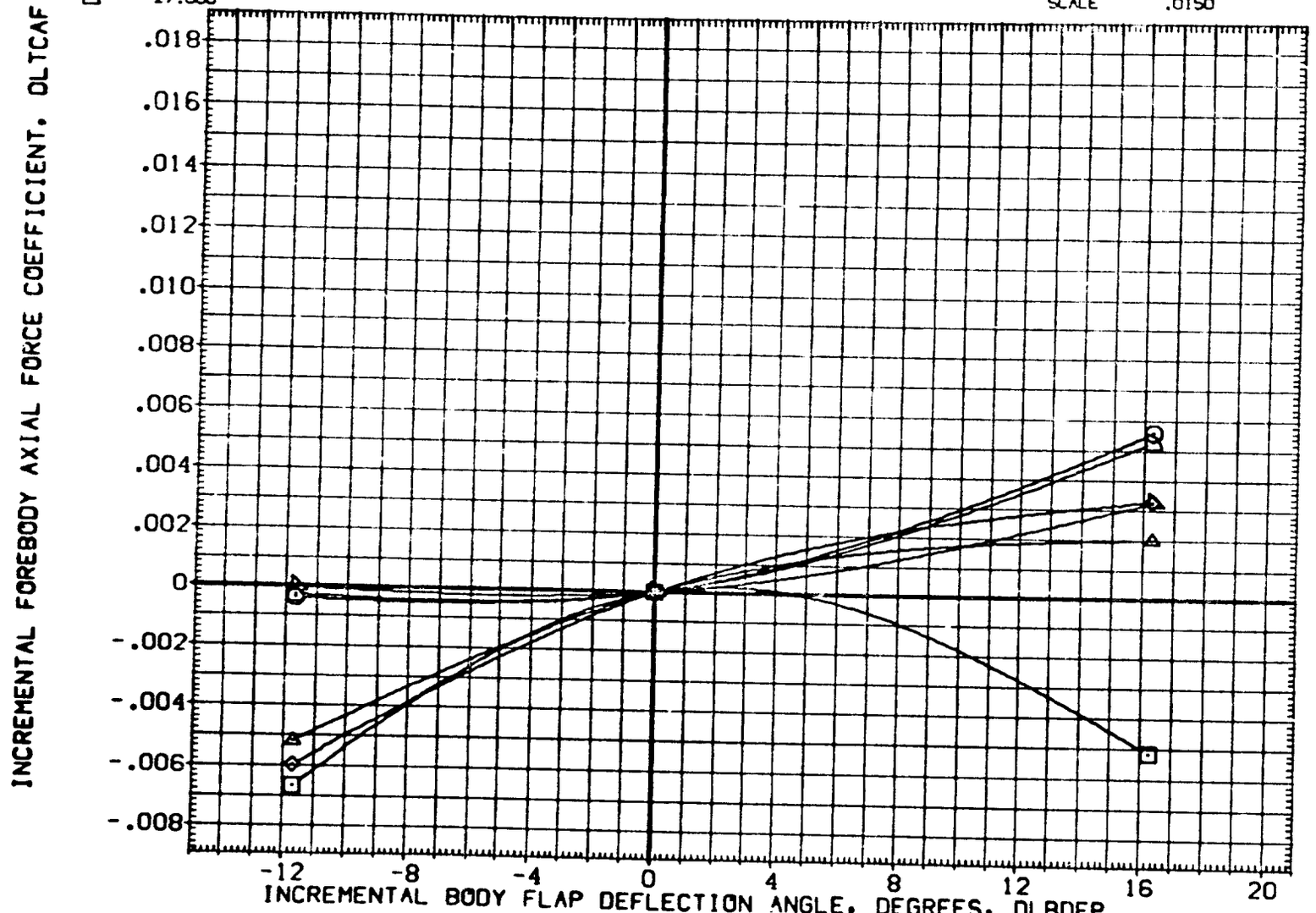


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

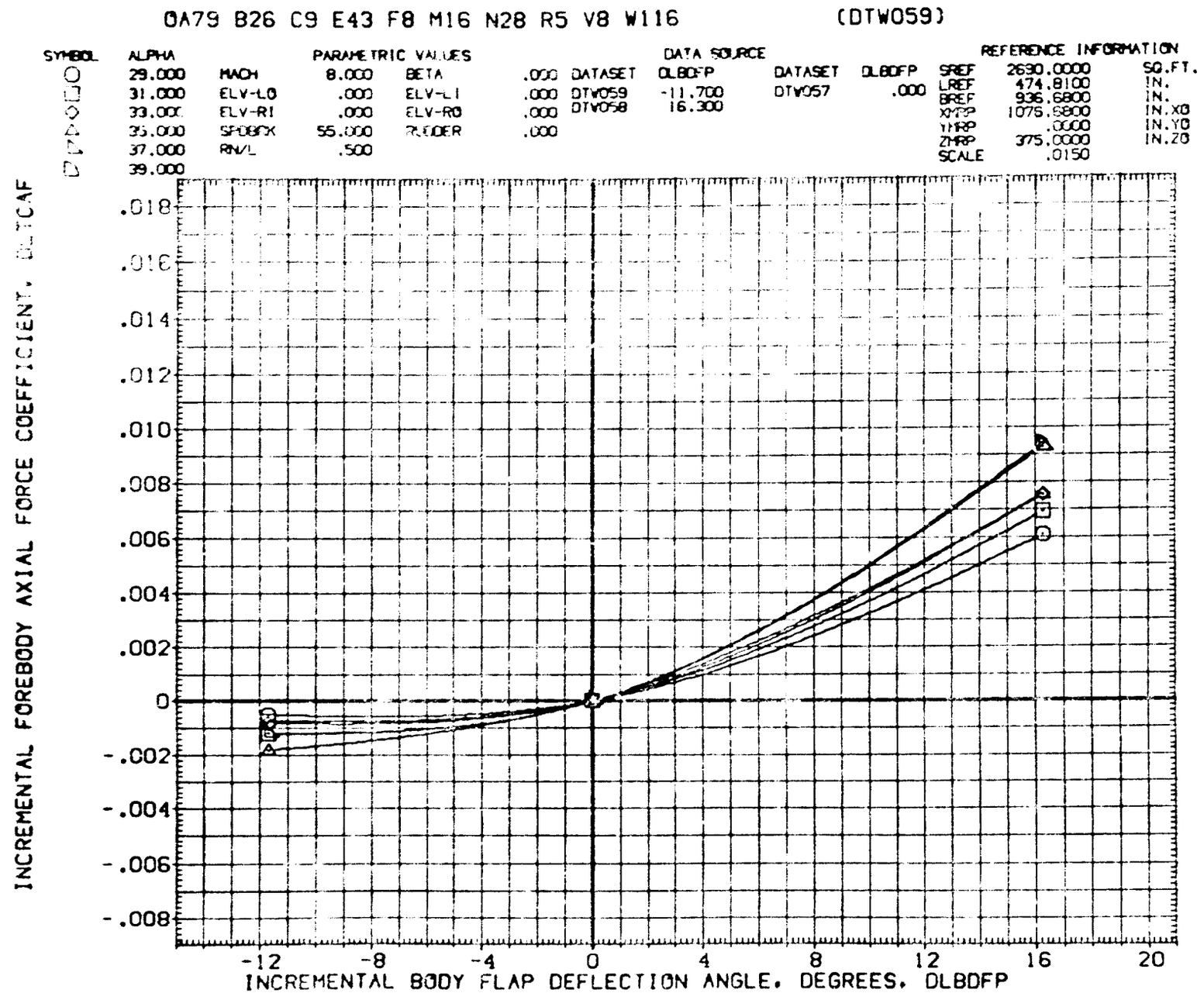
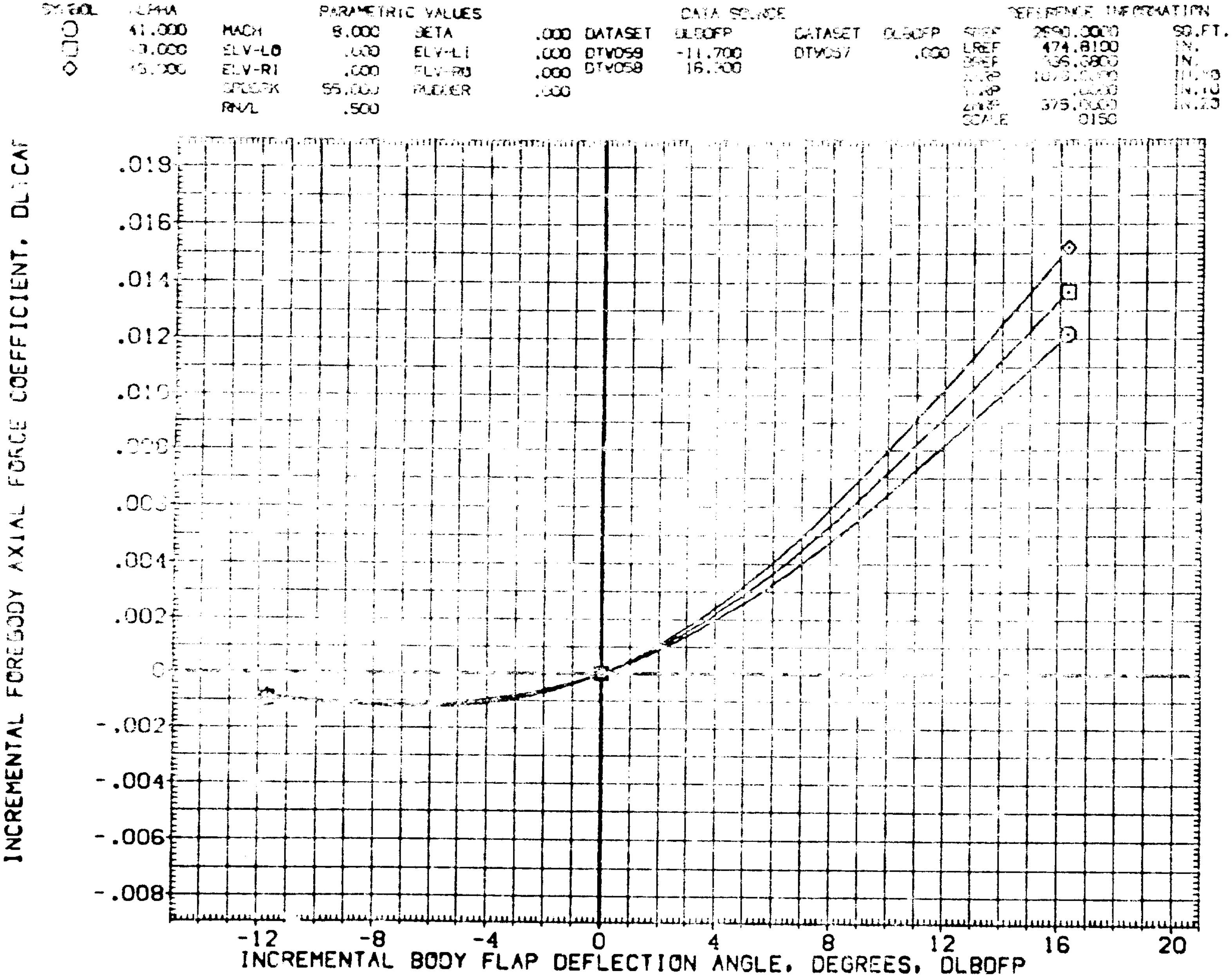


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)



SYMBOL ALPHA
41.000
PARAMETRIC VALUES
MACH 8.000 BETA .000
ELV-LO .000 ELV-LI .000
ELV-RI .000
RUDDER .000
SPDBRK 55.000
RN/L .500
DATA SOURCE
DATASET DLBOFP DATASET DLBOFP
DTW059 -11.700 DTW057 .000
DTW058 16.300
REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF IN.
ZMRP 375.0000
SCALE .0150
INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAF
.018
.016
.014
.012
.008
.004
.002
0
-.002
-.004
-.006
-.008
-12
-8
-4
0
4
8
12
16
20
INCREMENTAL BODY FLAP DEFLECTION ANGLE, DEGREES, DLBOFP

FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

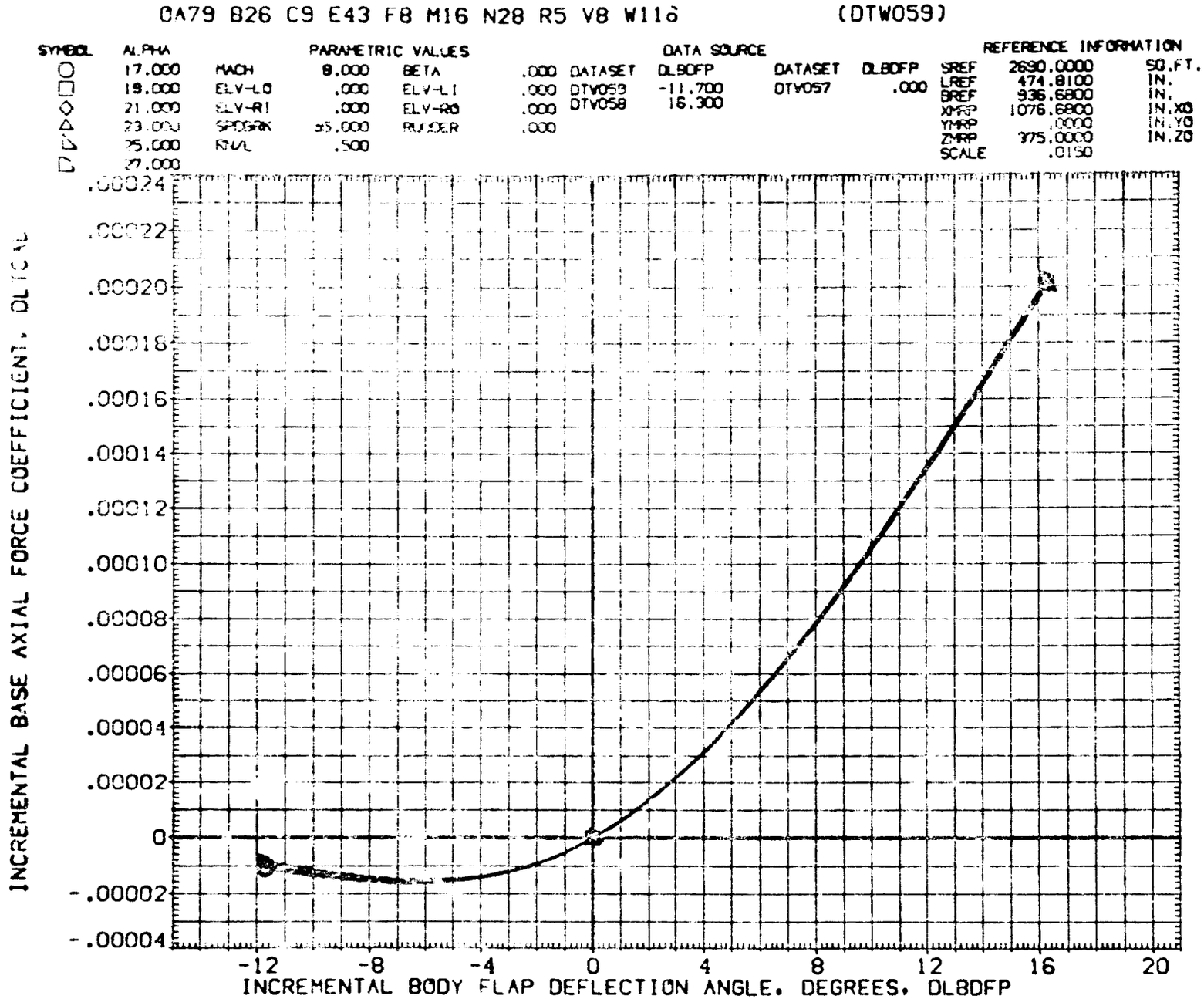


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

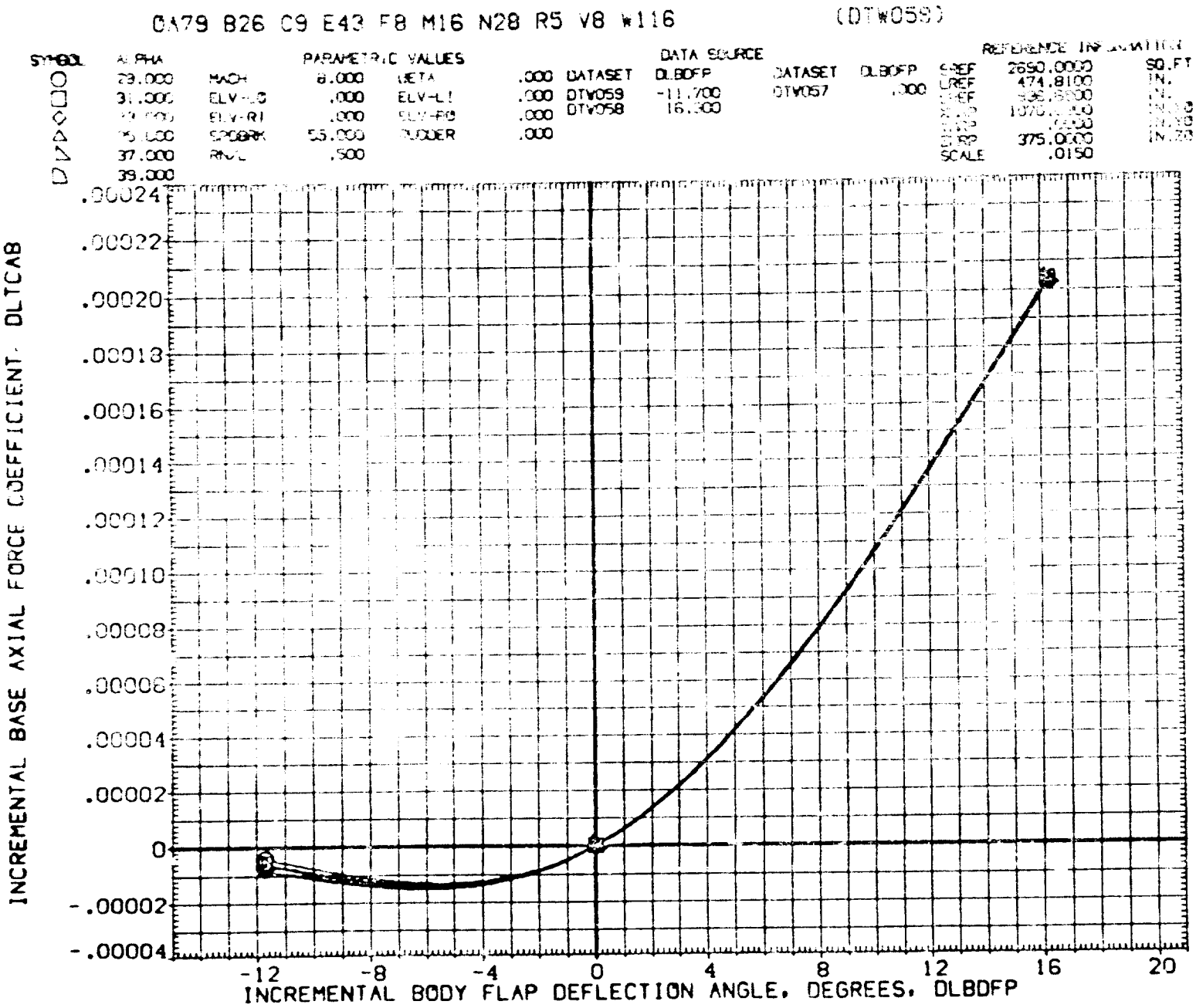


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (DTW059)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION	
◇□○	11.000	MACH	8.000	BETA	.000	DATASET	DLBDFP	DATASET	DLBDFP	SREF 2690.0000	SQ.FT.
	13.000	ELV-LO	.000	ELV-LI	.000	DTW058	-11.700	DTW057	.000	LREF 474.8100	IN.
	15.000	ELV-RI	.000	ELV-RO	.000	DTW058	16.300			BREF 936.6900	IN.
		SPDBRK	55.000	RUDDER	.000					XMRP 1076.6600	IN.X0
		RN/L	.500							YMRP .0000	IN.Y0
										ZMRP 375.0000	IN.Z0
										SCALE .0150	

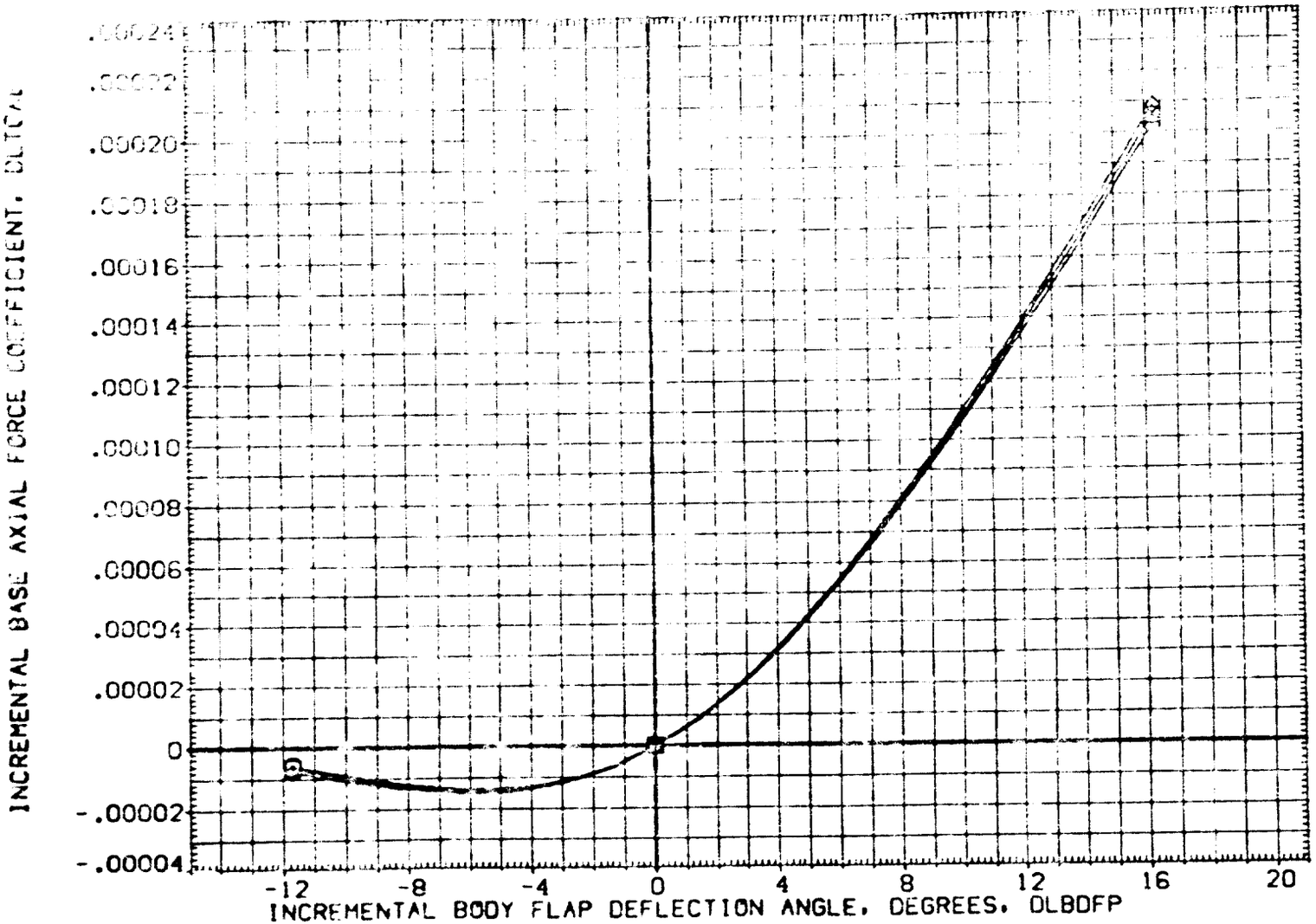


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

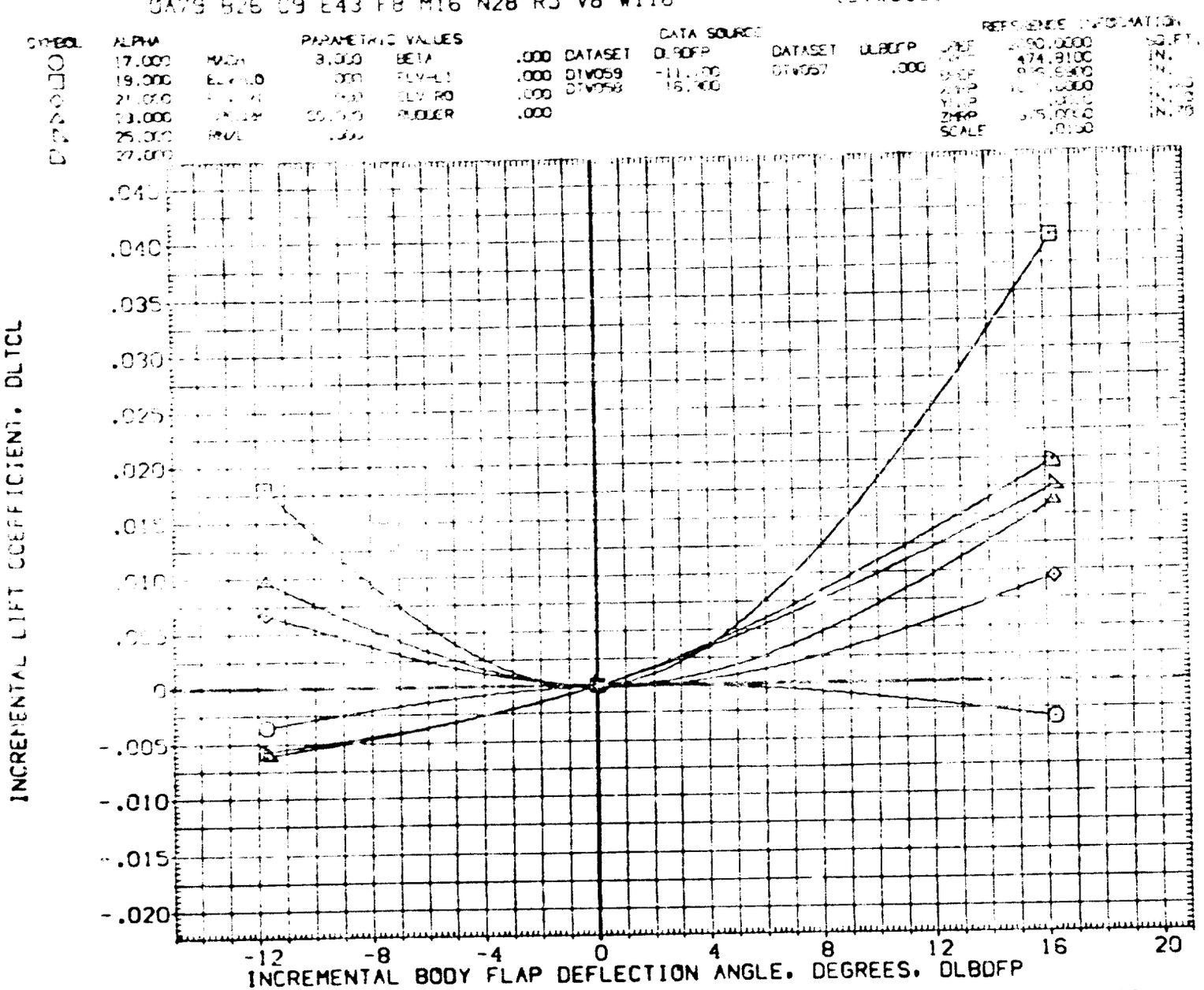


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

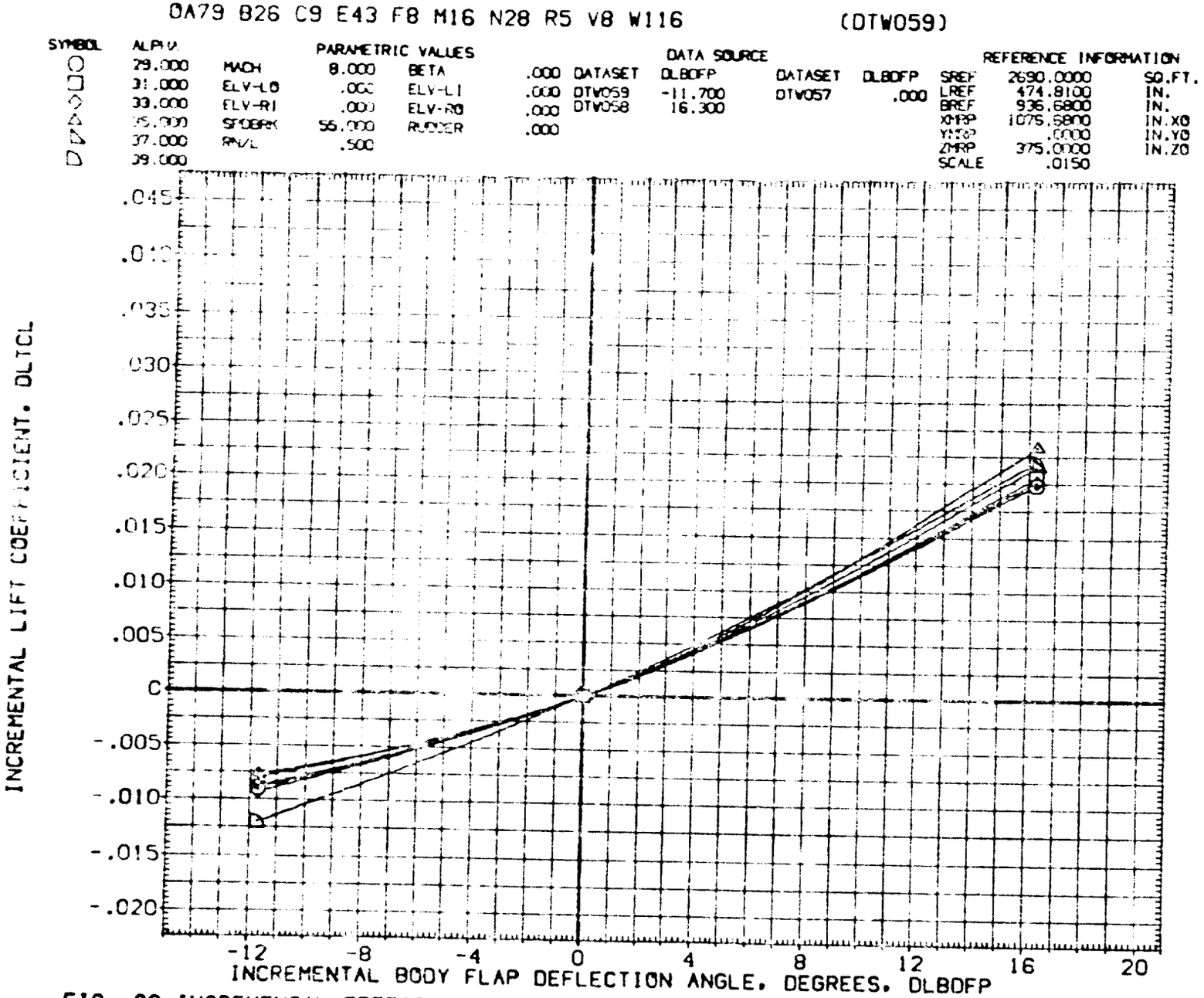


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

OA79 B26 C9 S43 F8 M16 N28 P5 V8 W116 (DTW059)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION	
○	41.000	MACH	8.000	BETA	.000	DATASET	OLBDFP	DATASET	OLBDFP	SREF	SQ.FT.
□	42.000	ELV-DEL	.000	ELV-CL	.000	DTW059	-11.750	DTW057	.000	CREF	IN.
◇	43.000	ELV-CM	.000	ELV-CN	.000	DTW056	16.300			BREF	IN.
		SPEC K	56.000	RUDDER	.000					XMRP	IN.XB
		REYL	.500							ZMRP	IN.ZB
										SCALE	.0150

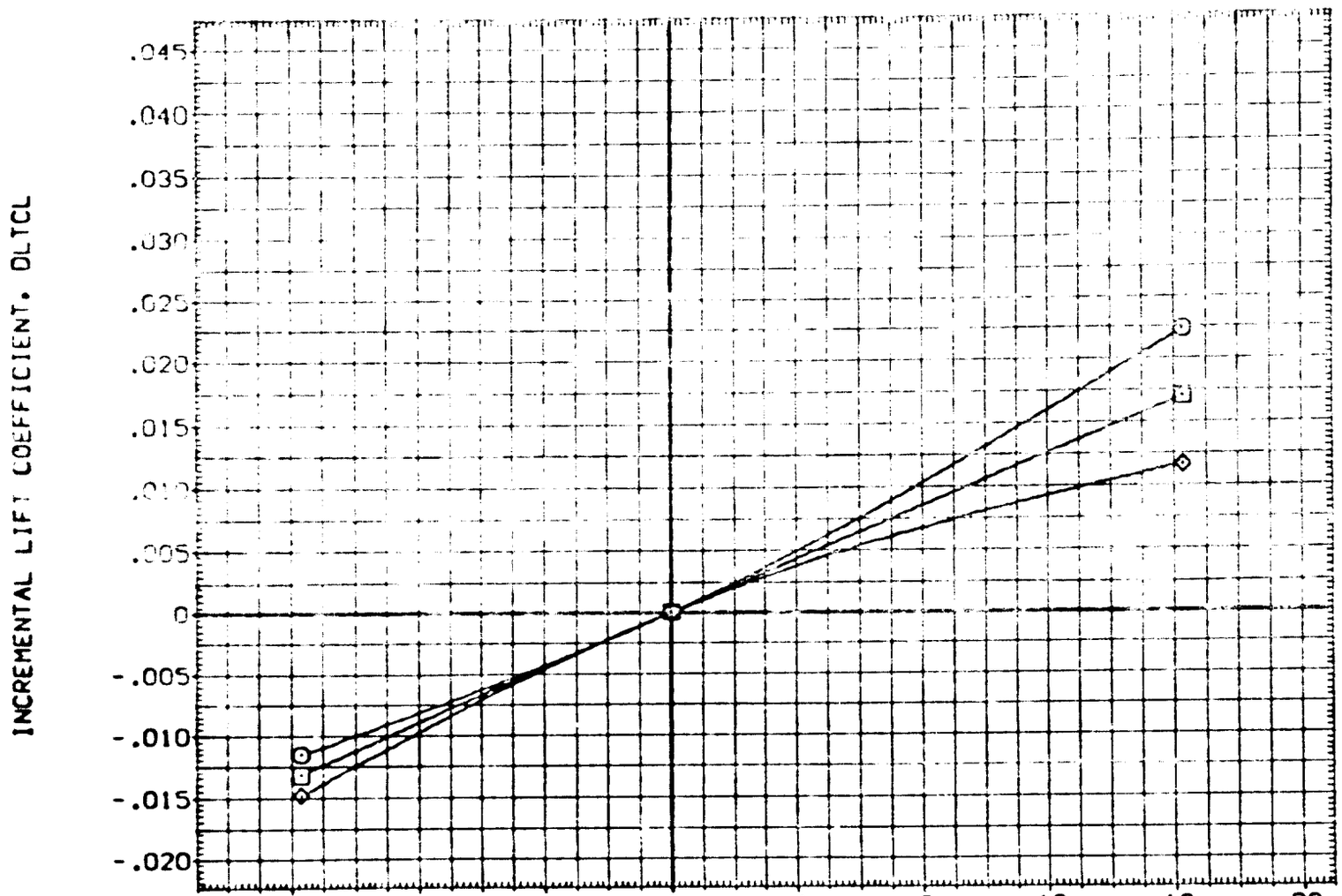


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

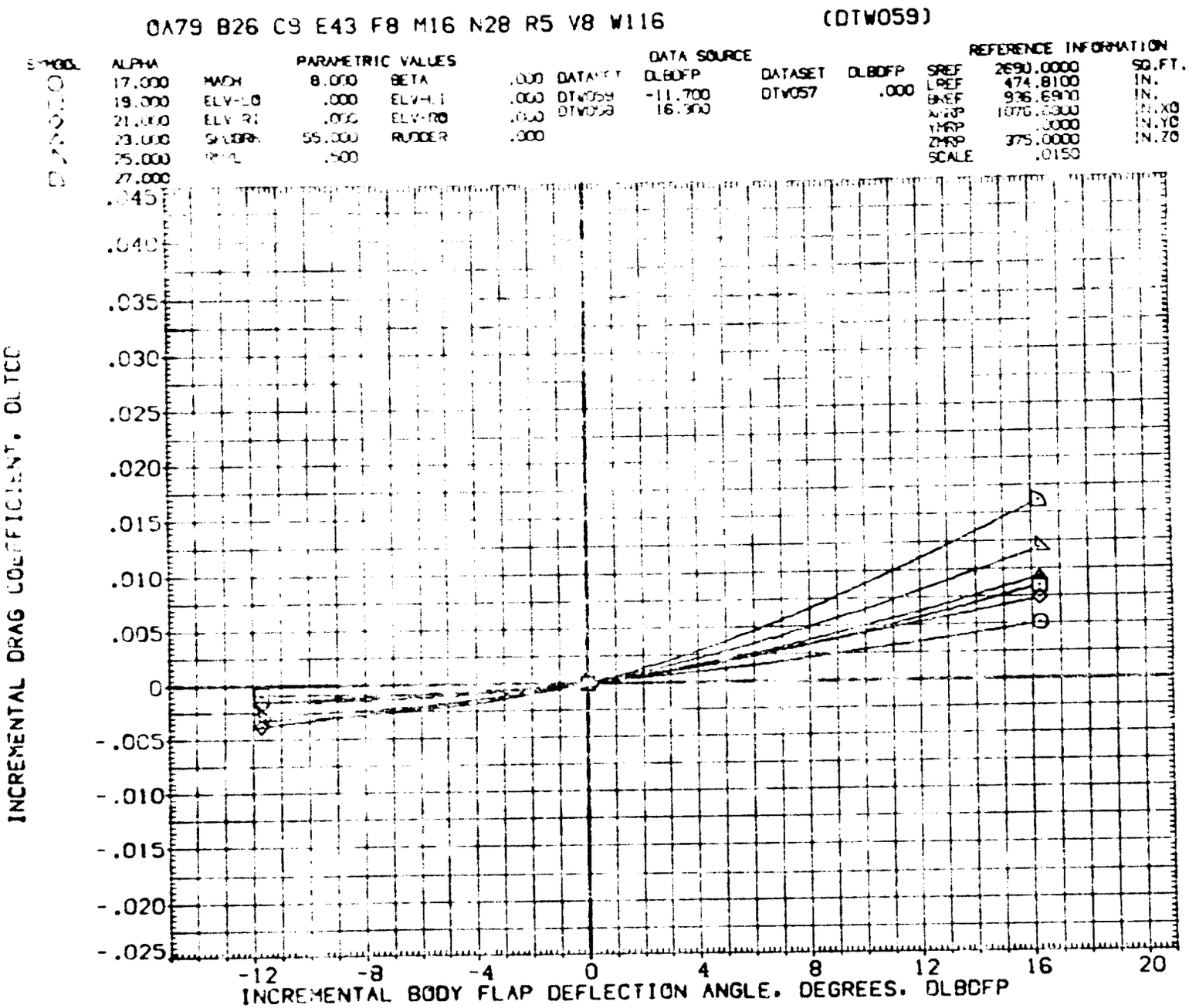


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

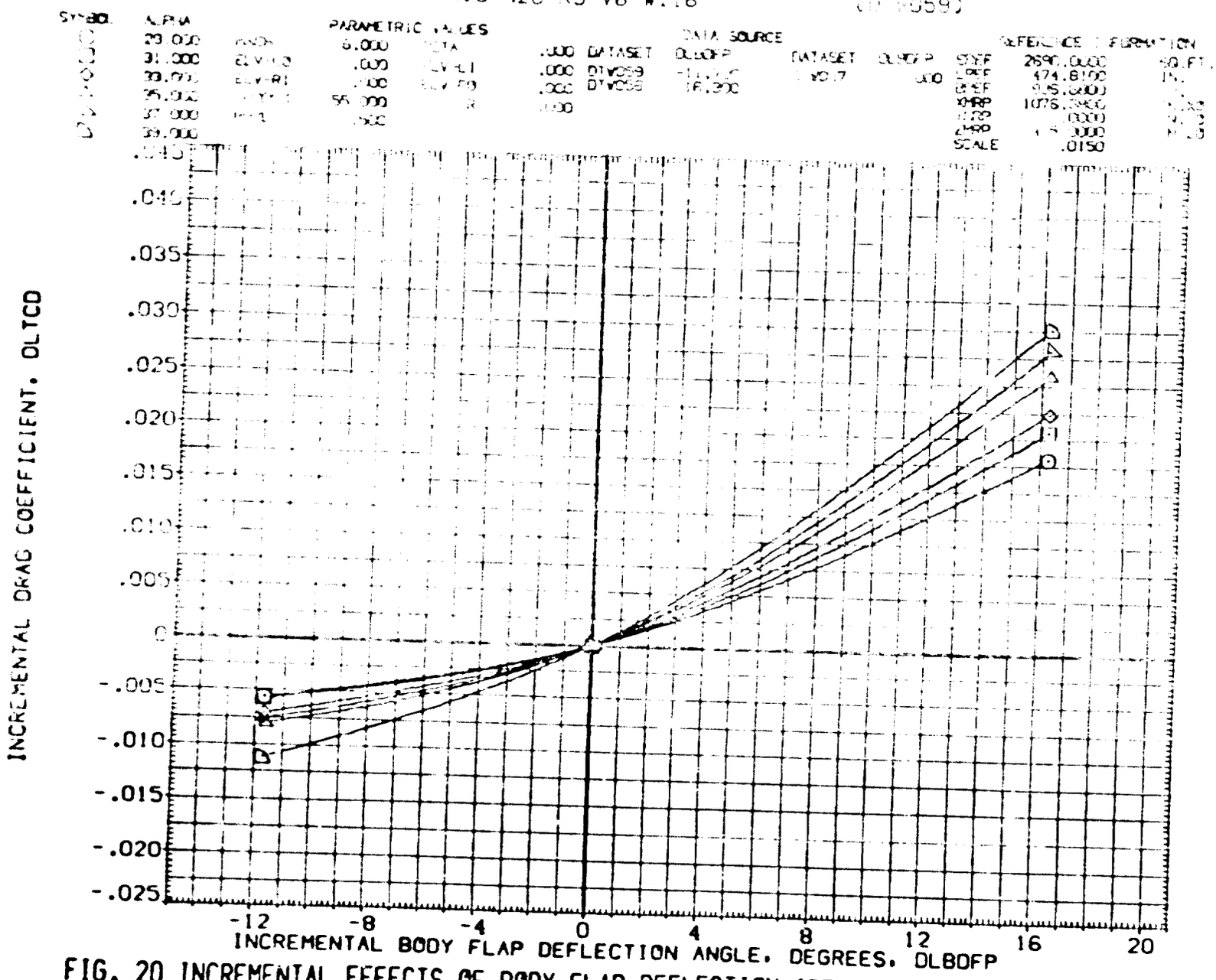


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

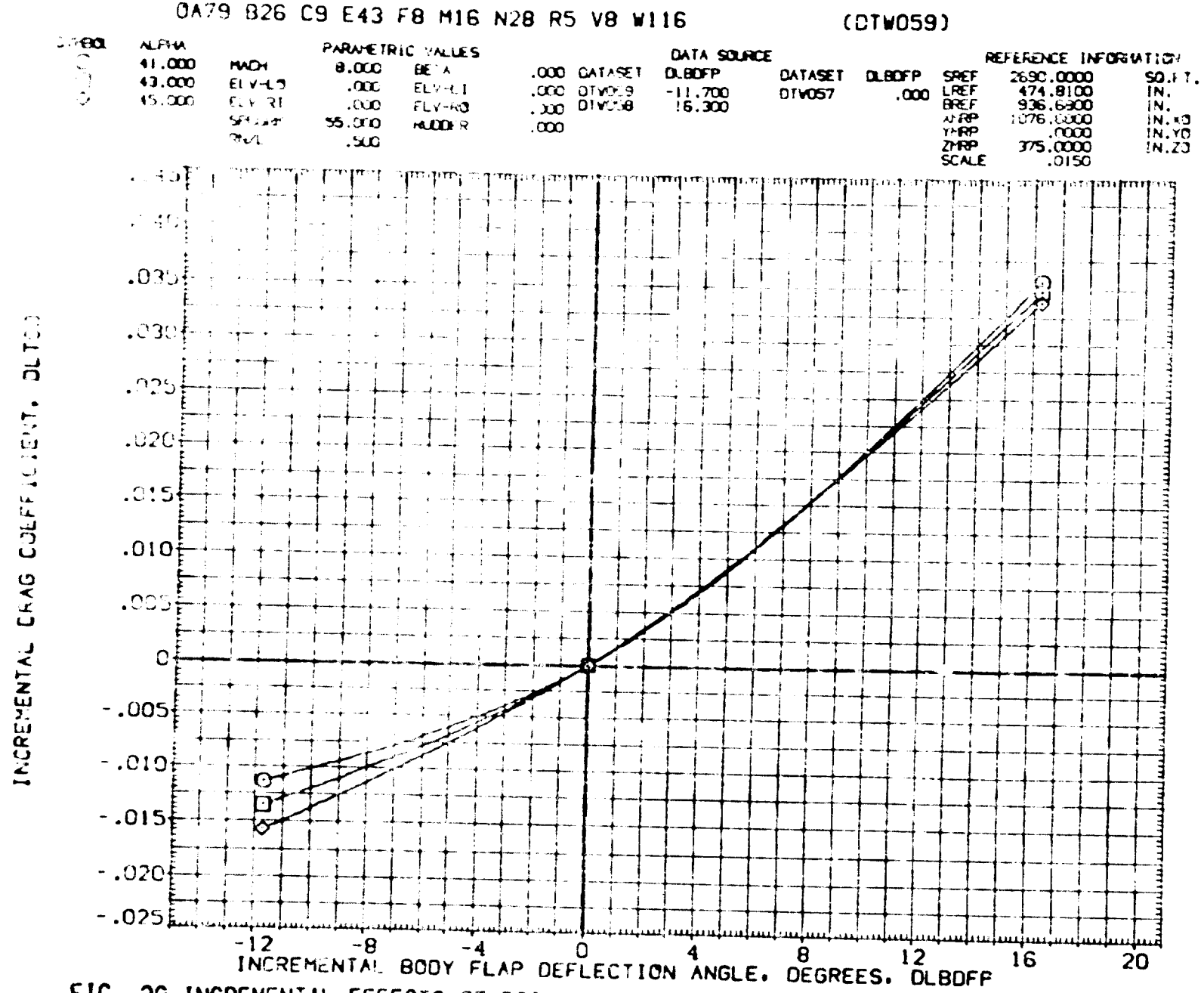


FIG. 20 INCREMENTAL EFFECTS OF BODY FLAP DEFLECTION (REYNOLDS NUMBER= 0.50)

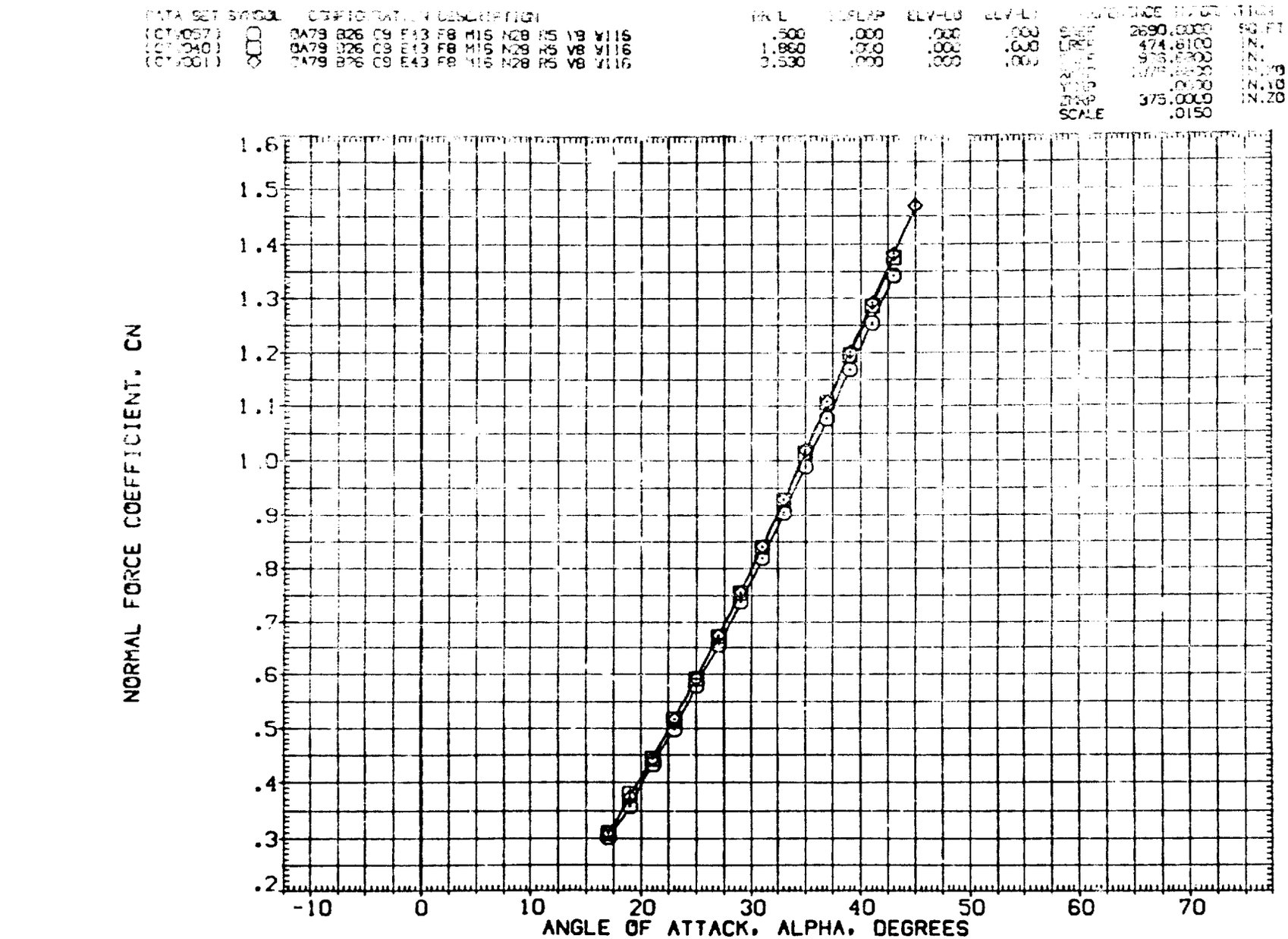


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BOFLAP	ELV-LO	ELV-L1
(CTV037)	○	OA79 B26 C3 E43 F8 M16 N28 R5 V8 W116	.500	.000	.000	.000
(CTV040)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	.000	.000	.000
(CTV001)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

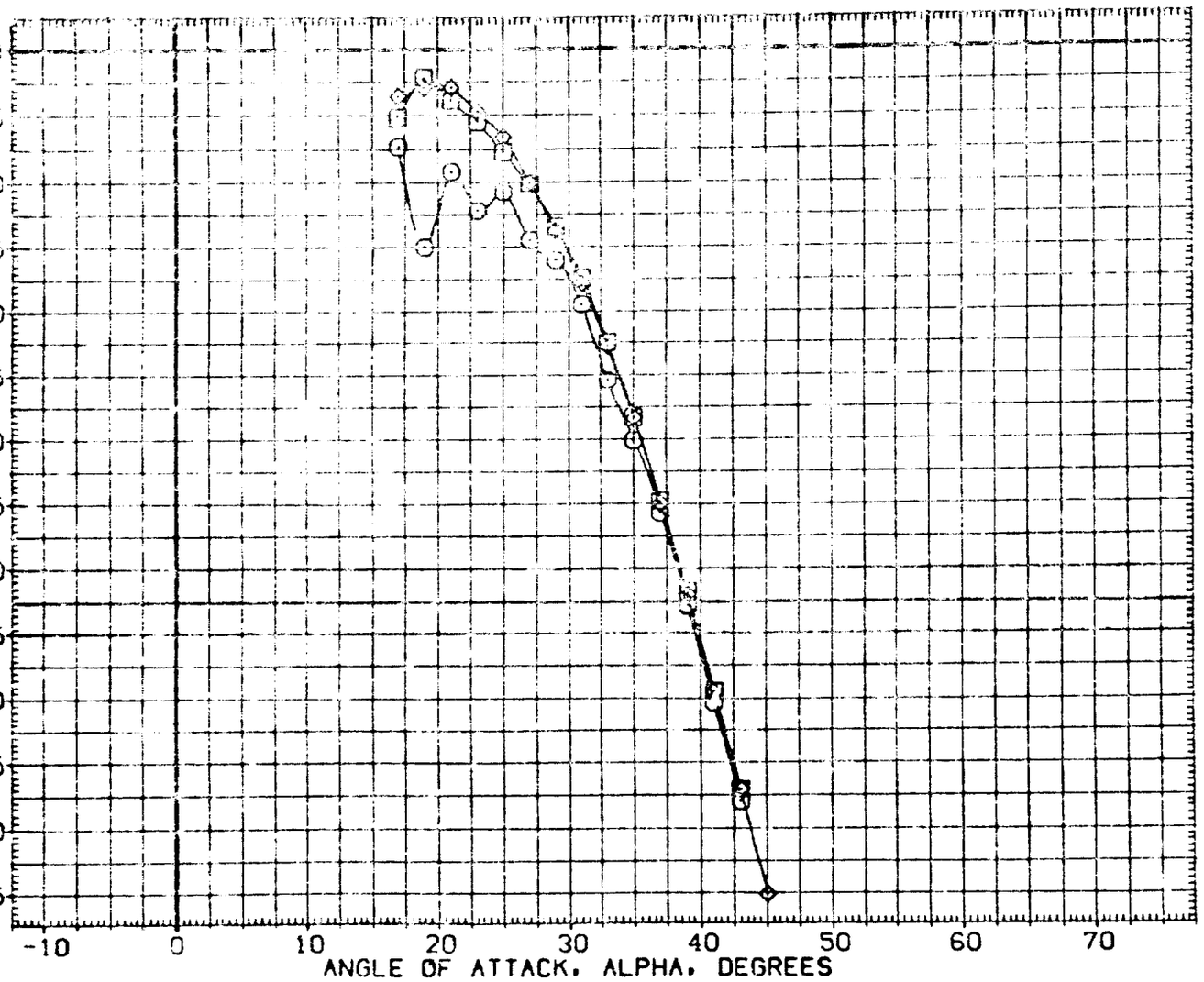


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

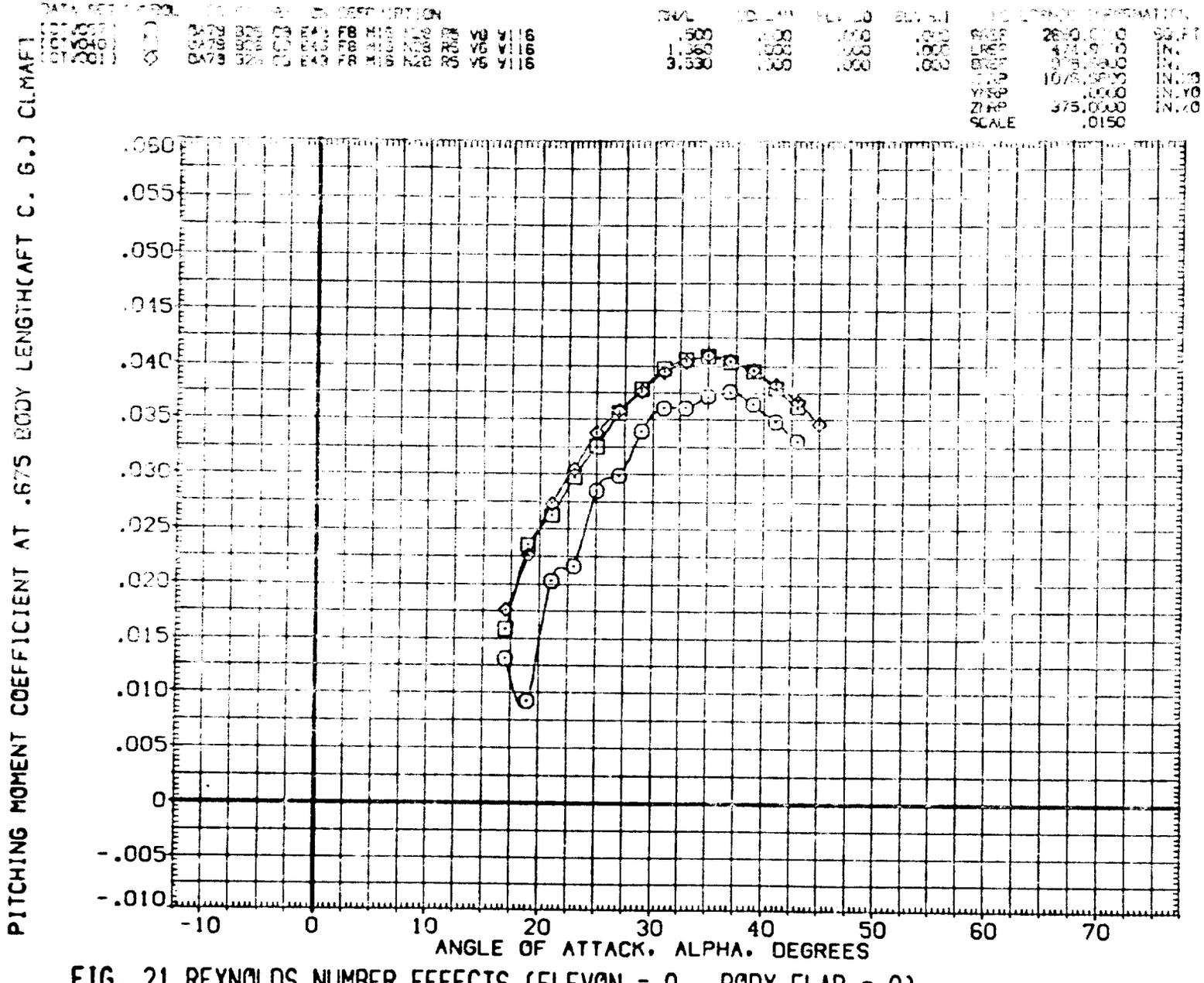


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV057)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV040)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV001)	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W16

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	.000	.000
1.060	.000	.000	.000
3.530	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.6600	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

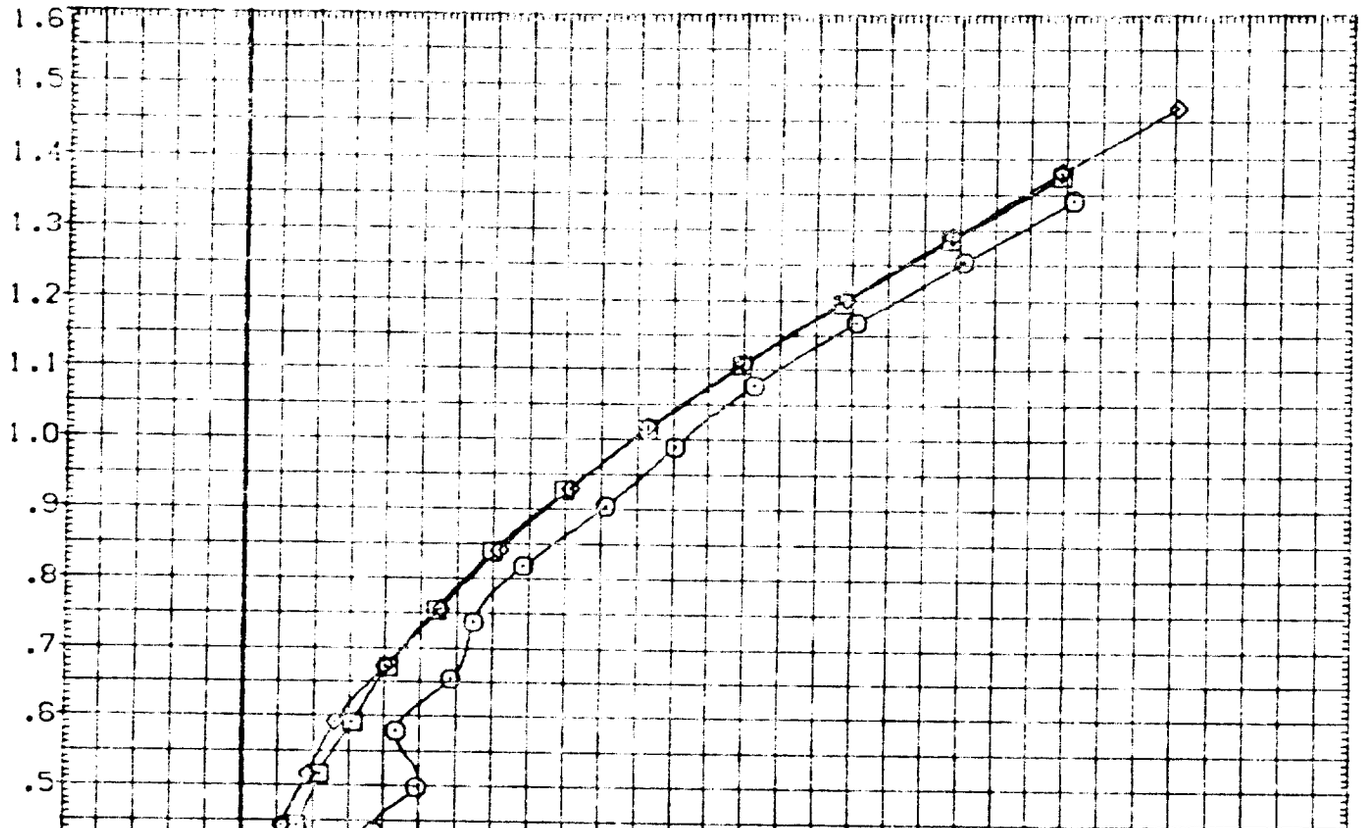


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	ELEVLE	ELEVLO	ELEVLI
[CTV057]	OA79 B26 C3 E43 F8 M16 N28 R5 V8 W116	.500	.000	.000	.000
[CTV040]	OA79 B26 C5 E43 F8 M16 N28 R5 V8 W116	1.060	.000	.000	.000
[CTV001]	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5300	IN.
XMRP	1076.6200	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV057)	○	0A79 B26 C9 E43 F8 M16 N2P R5 V8 W116	.500	.000	.000	.000
(CTV040)	□	0A79 B26 C9 E43 F8 M16 N2P R5 V8 W116	1.860	.000	.000	.000
(CTV001)	◇	0A79 B26 C9 E43 F8 M16 N2P R5 V8 W116	3.530	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

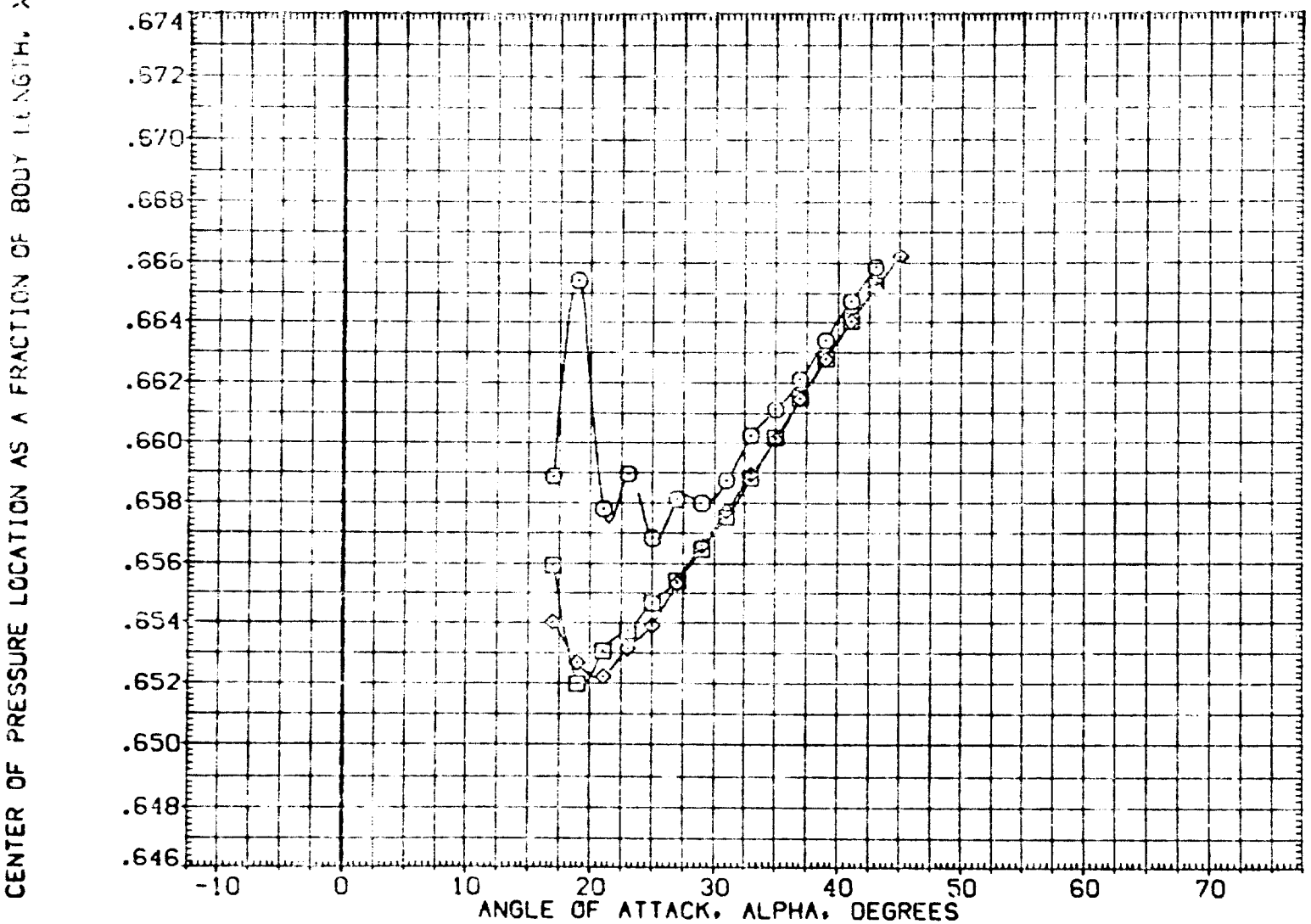


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

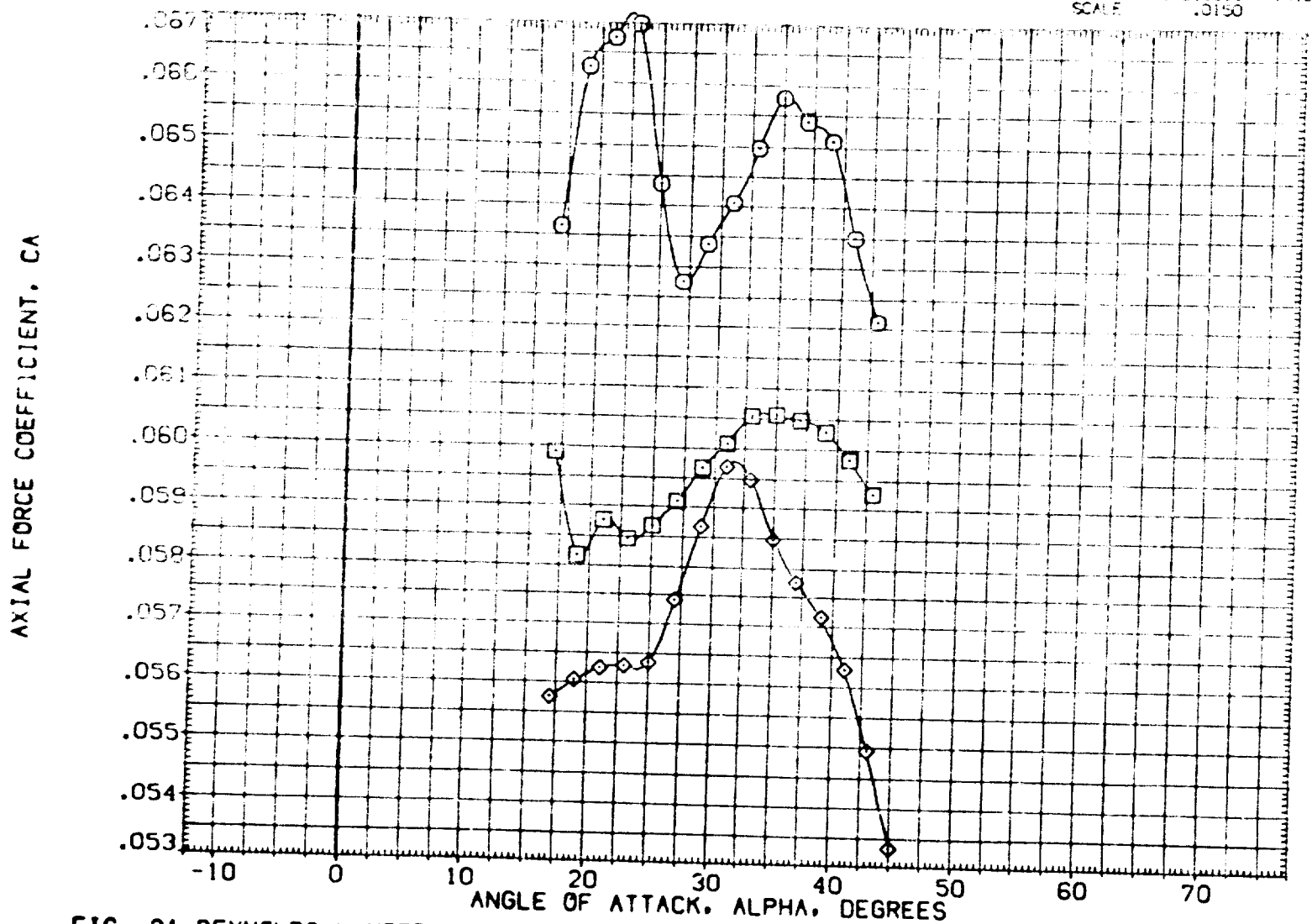


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTW057)	□	OA79 B26 C8 E43 F8 M16 N28 R5 V8 V116
(CTW040)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTW001)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	.000	.000
1.860	.000	.000	.000
3.530	.000	.000	.000

REFERENCE INFORMATION

SREF	2650.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

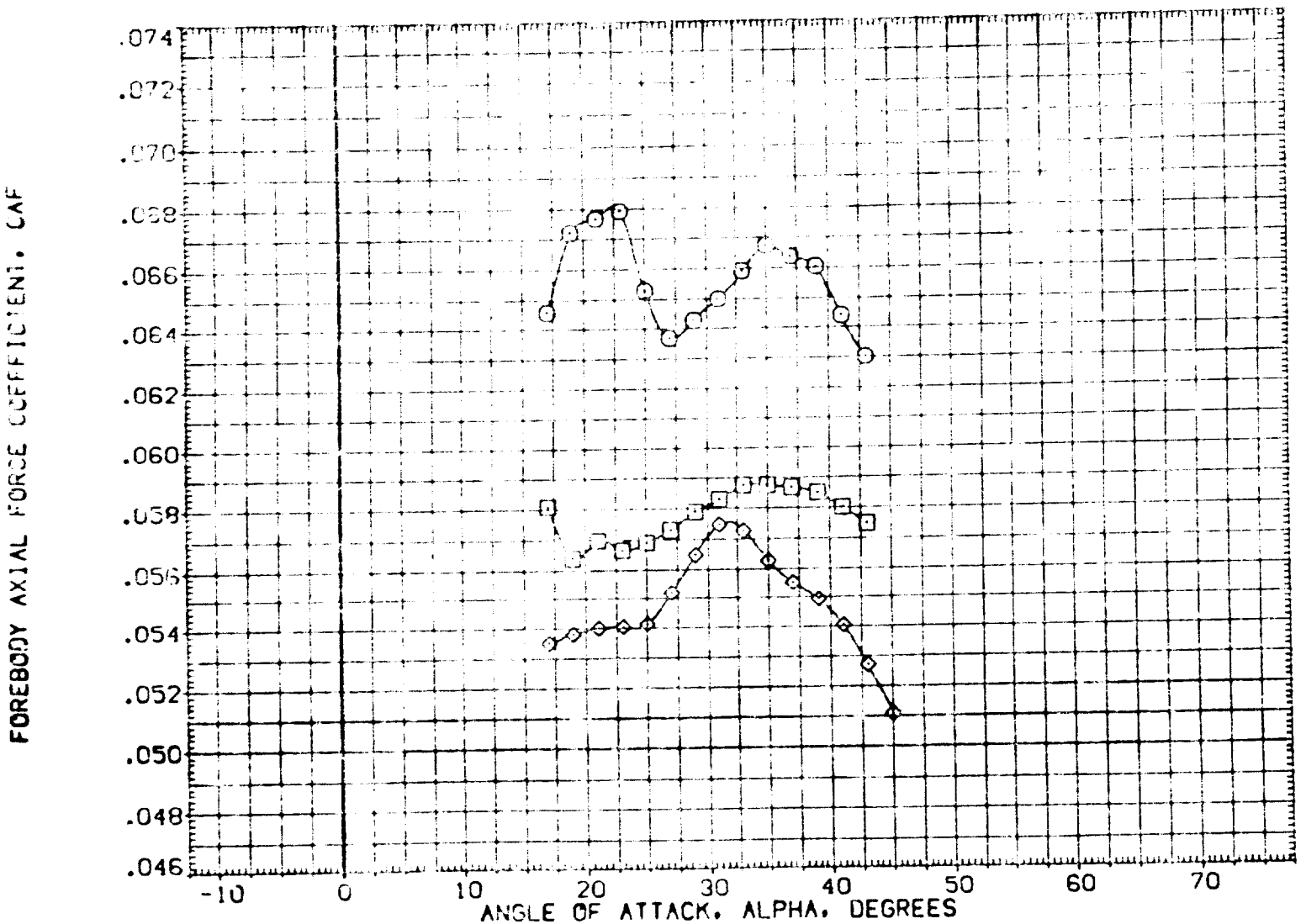


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

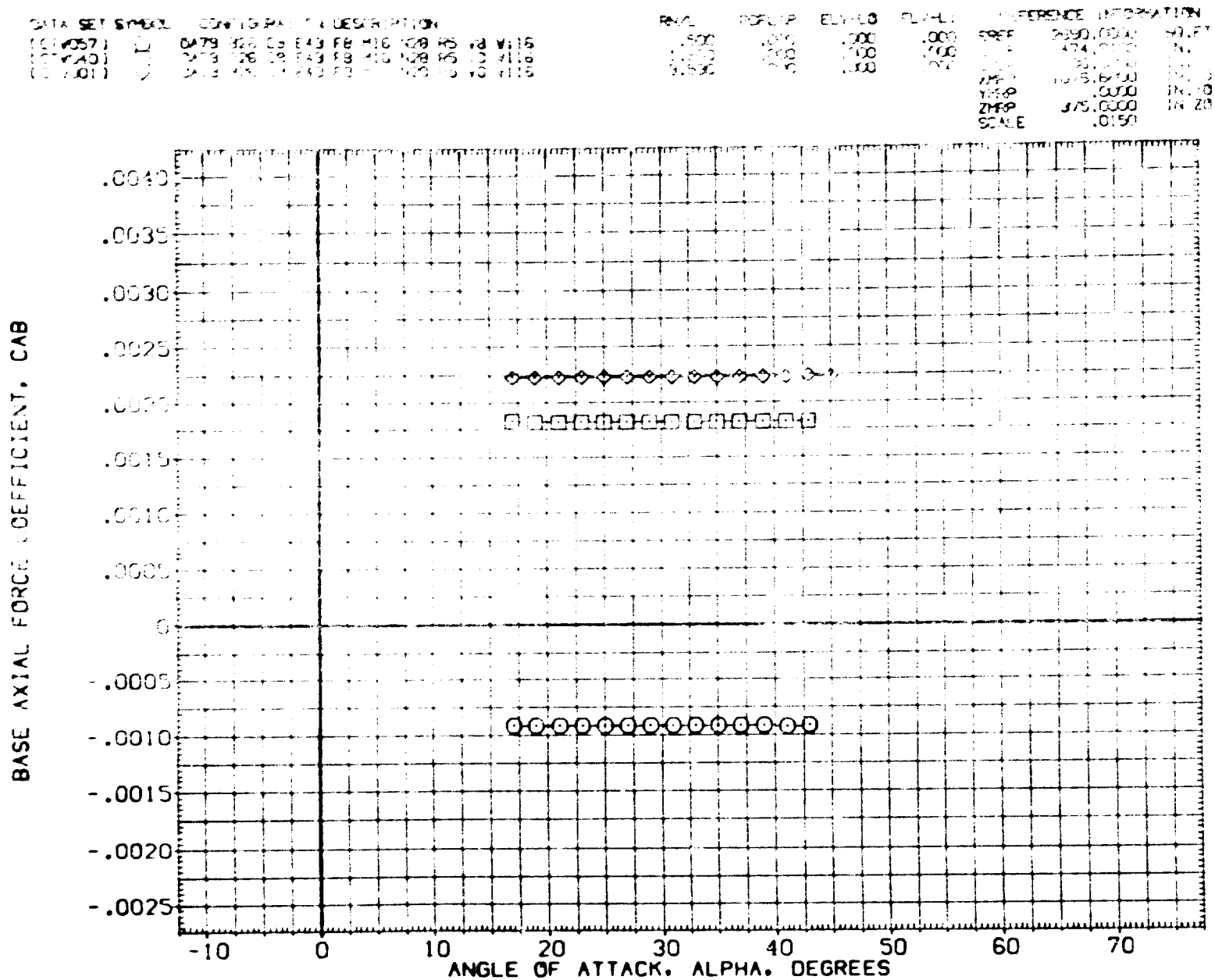


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV057)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	.000	.000
(CTV040)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	.000	.000
(CTV001)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

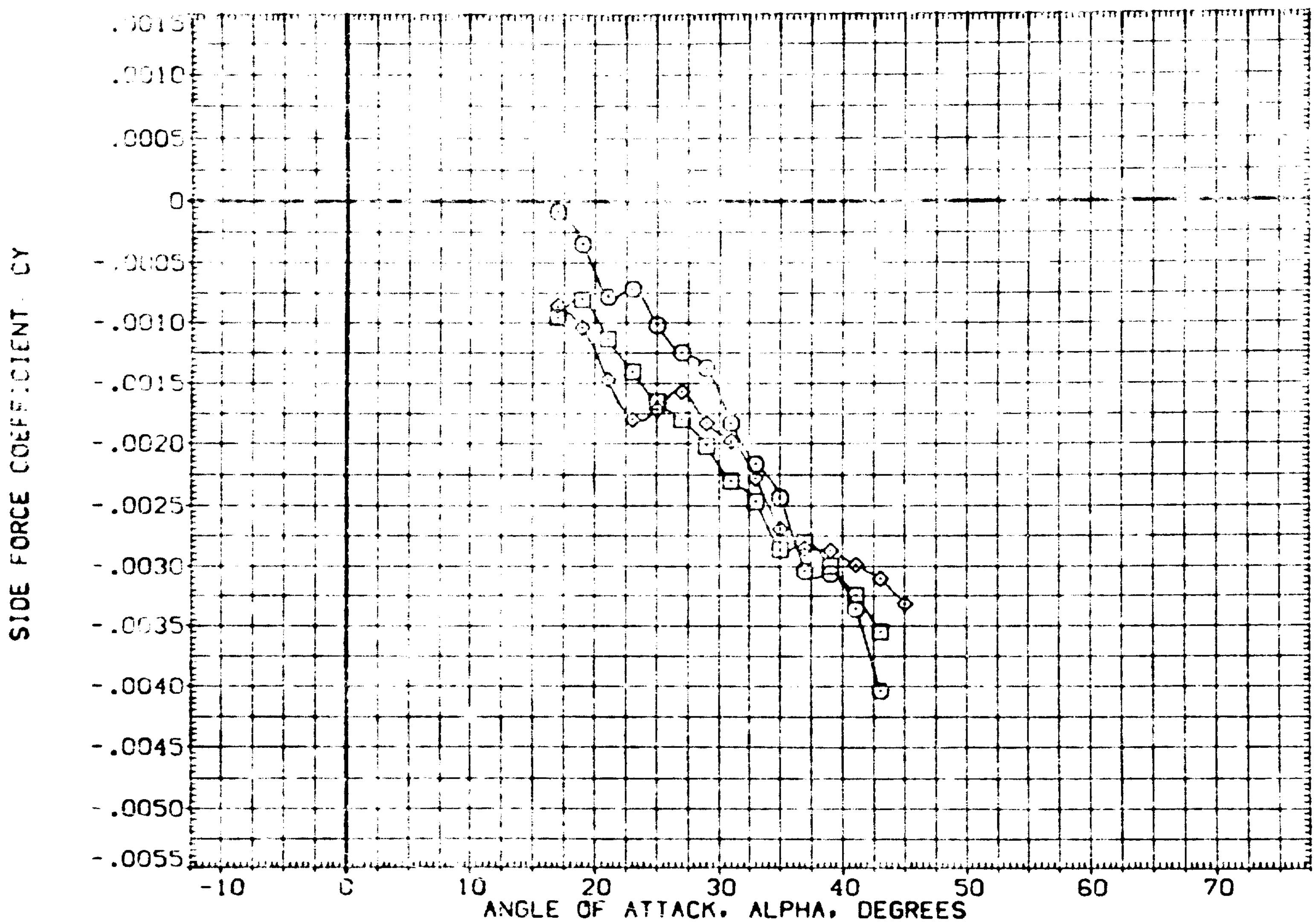


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

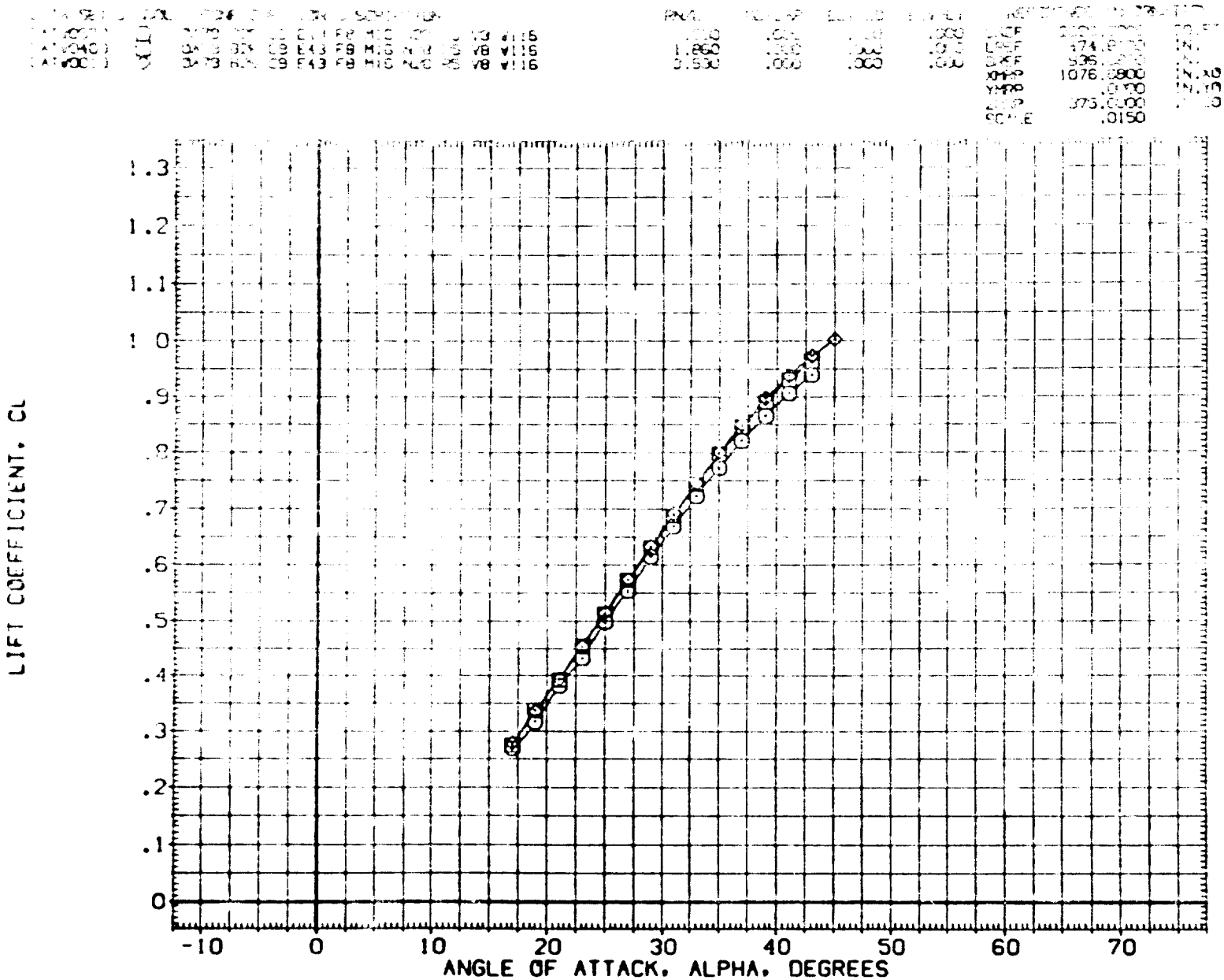


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(A)V057)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	.000	.000	.000
(A)V040)	○	OA75 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	.000	.000	.000
(A)V001)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

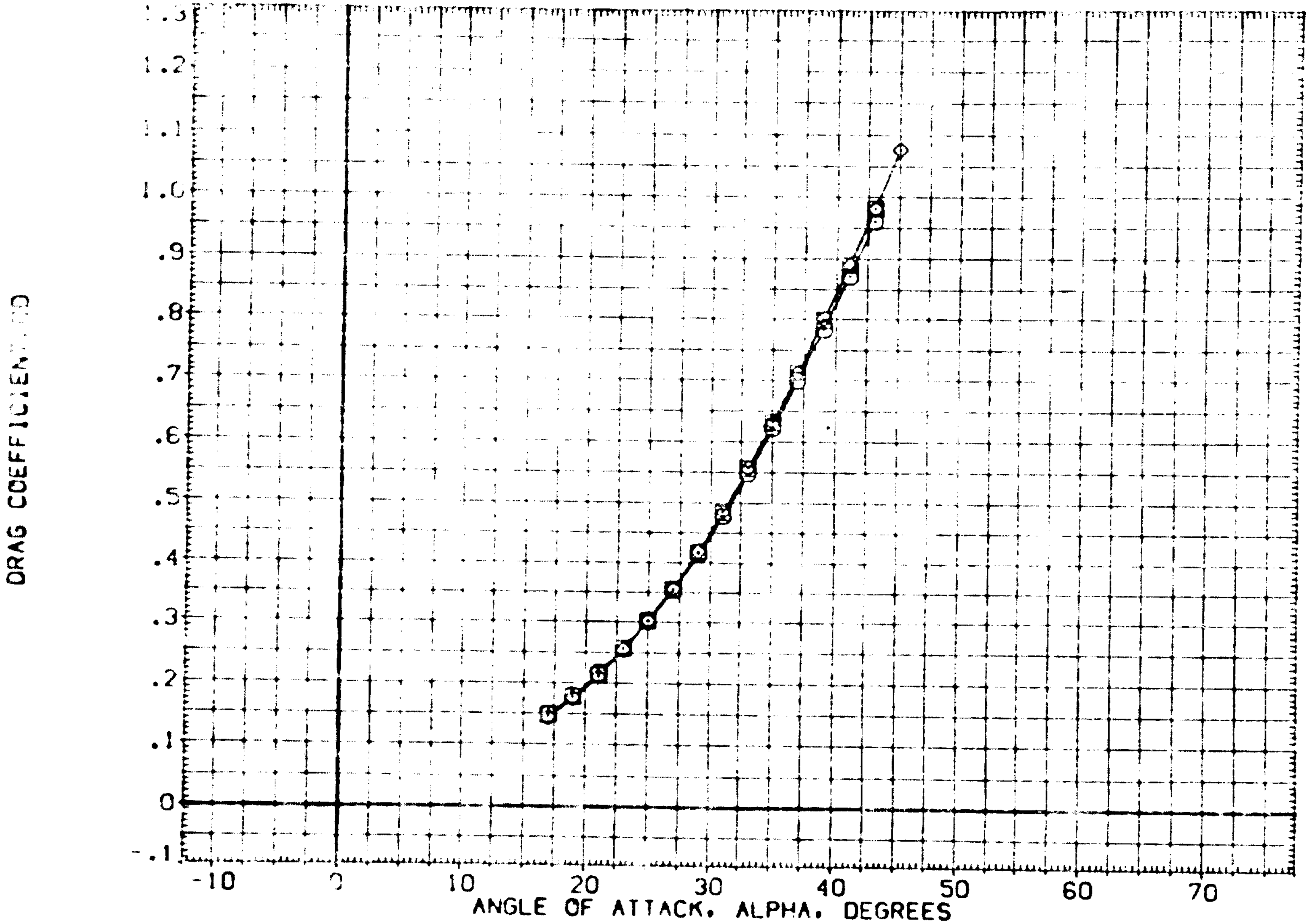


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)
(A)MACH = 7.90

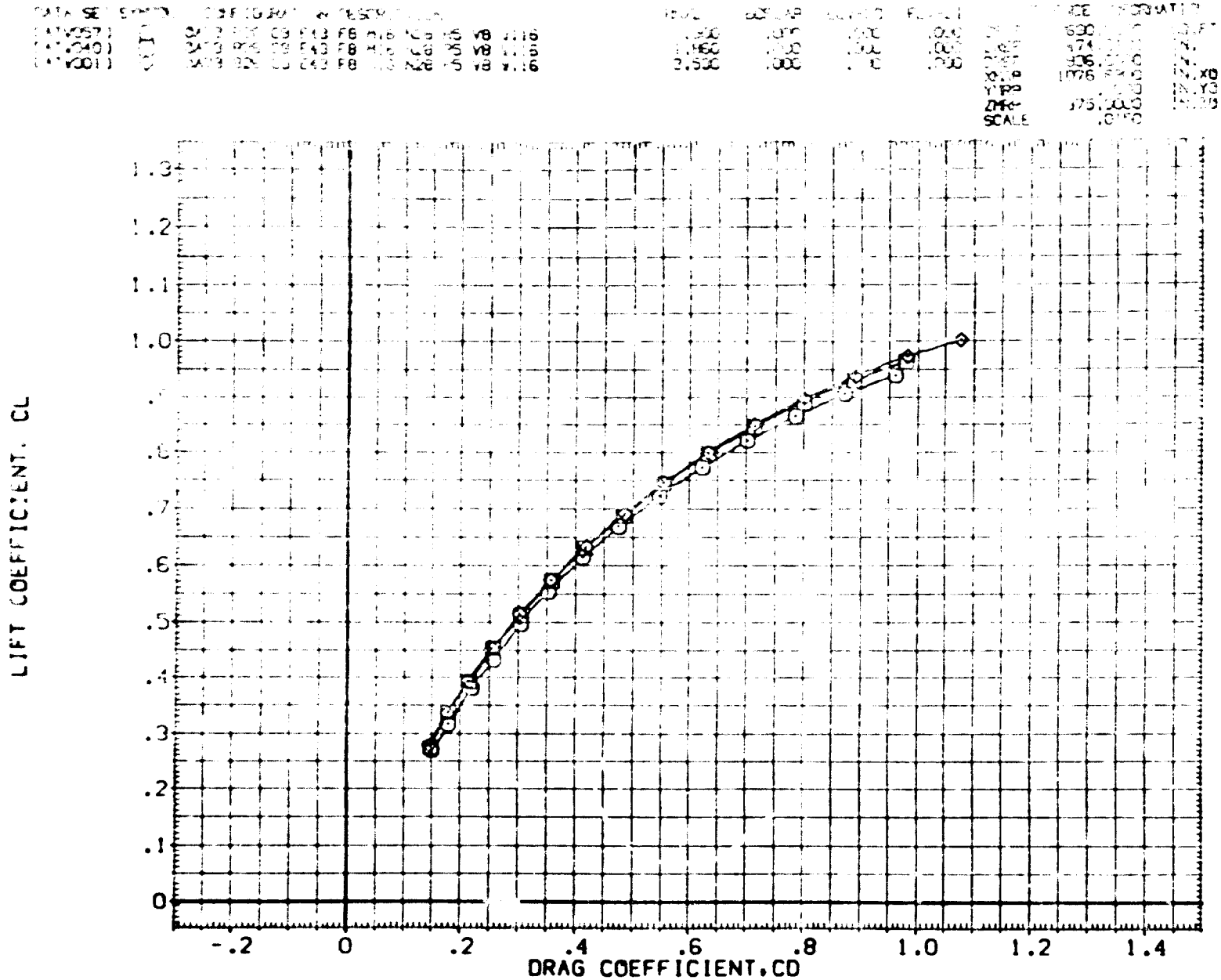


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BOFLAP	ELV-LO	ELV-LI
(ATV057)	□	BA79 B26 C9 E43 F8 M16 N29 R5 V8 V116	.500	.000	.600	.000
(ATV040)	○	BA79 B26 C9 E43 F8 M16 N20 R5 V8 V116	1.860	.000	.000	.000
(ATV001)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	.000	.000

REFERENCE INFORMATION

SREF	2630.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

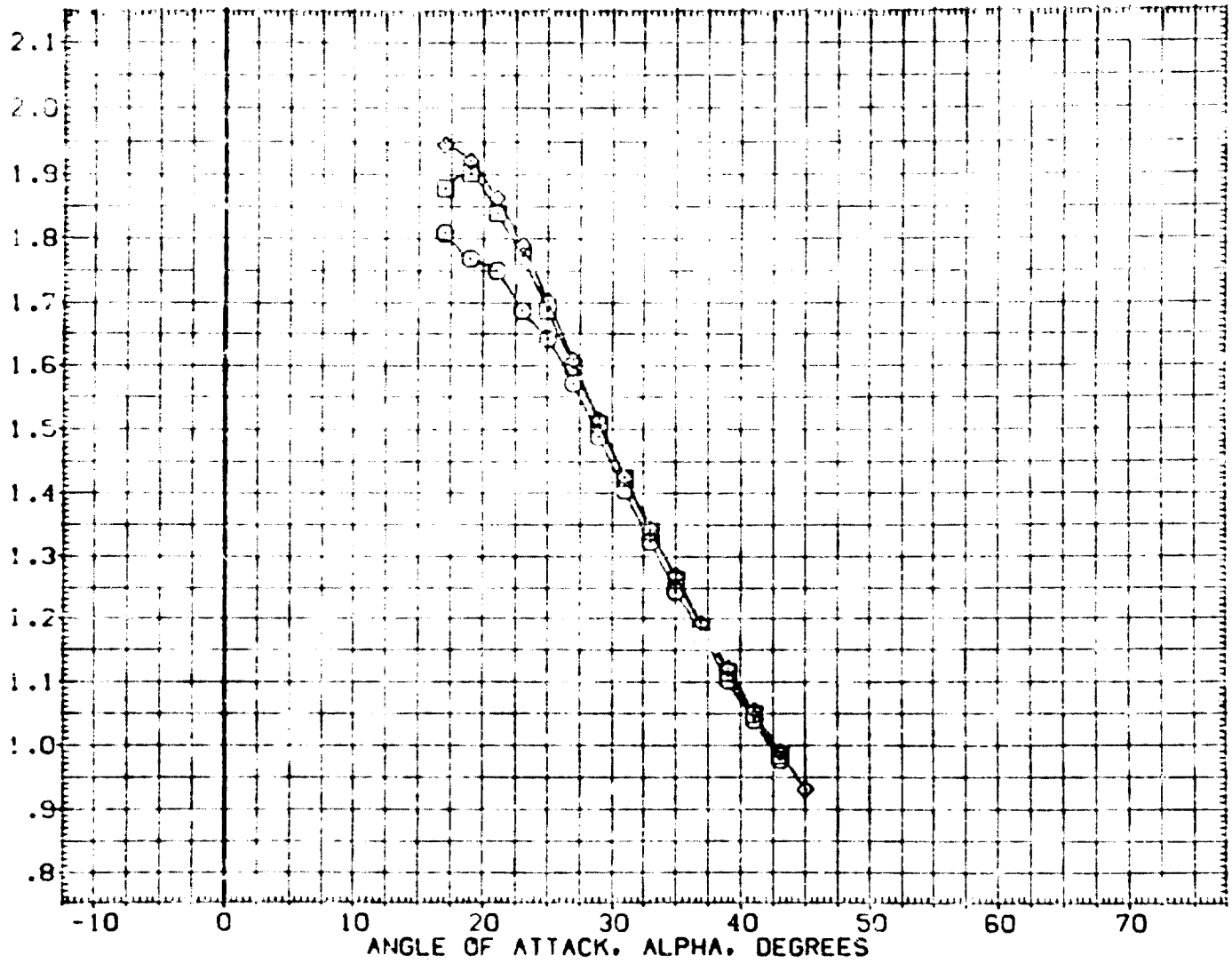


FIG. 21 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP = 0)

(A)MACH = 7.90

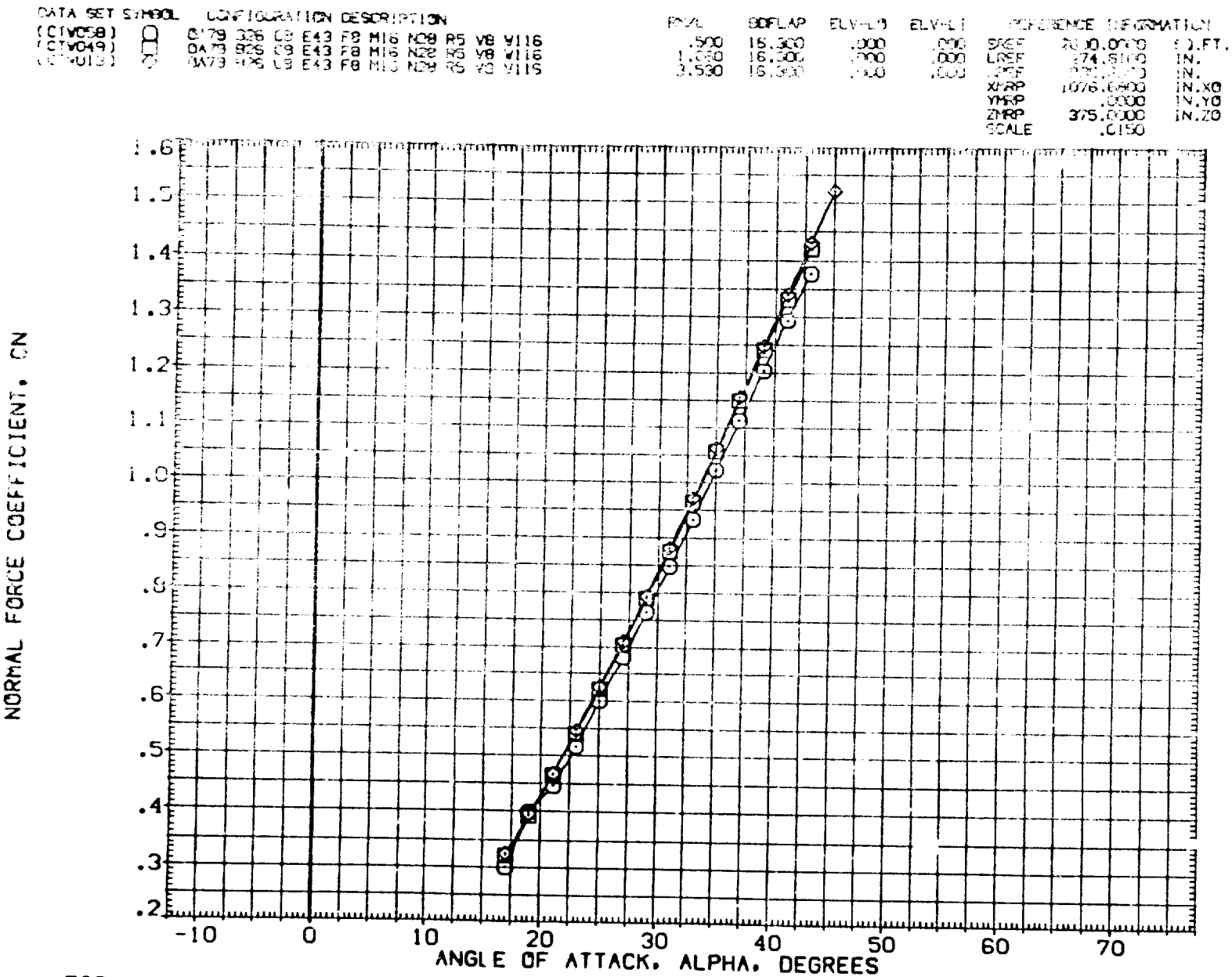


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BOFLAP	ELV-LO	ELV-LI
(CTV056)	□	OA79 B26 C9 E43 F8 M16 N26 R5 V8 W16	.500	16.300	.000	.000
(CTV049)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	1.860	16.300	.000	.000
(CTV013)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16	3.530	16.300	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	935.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

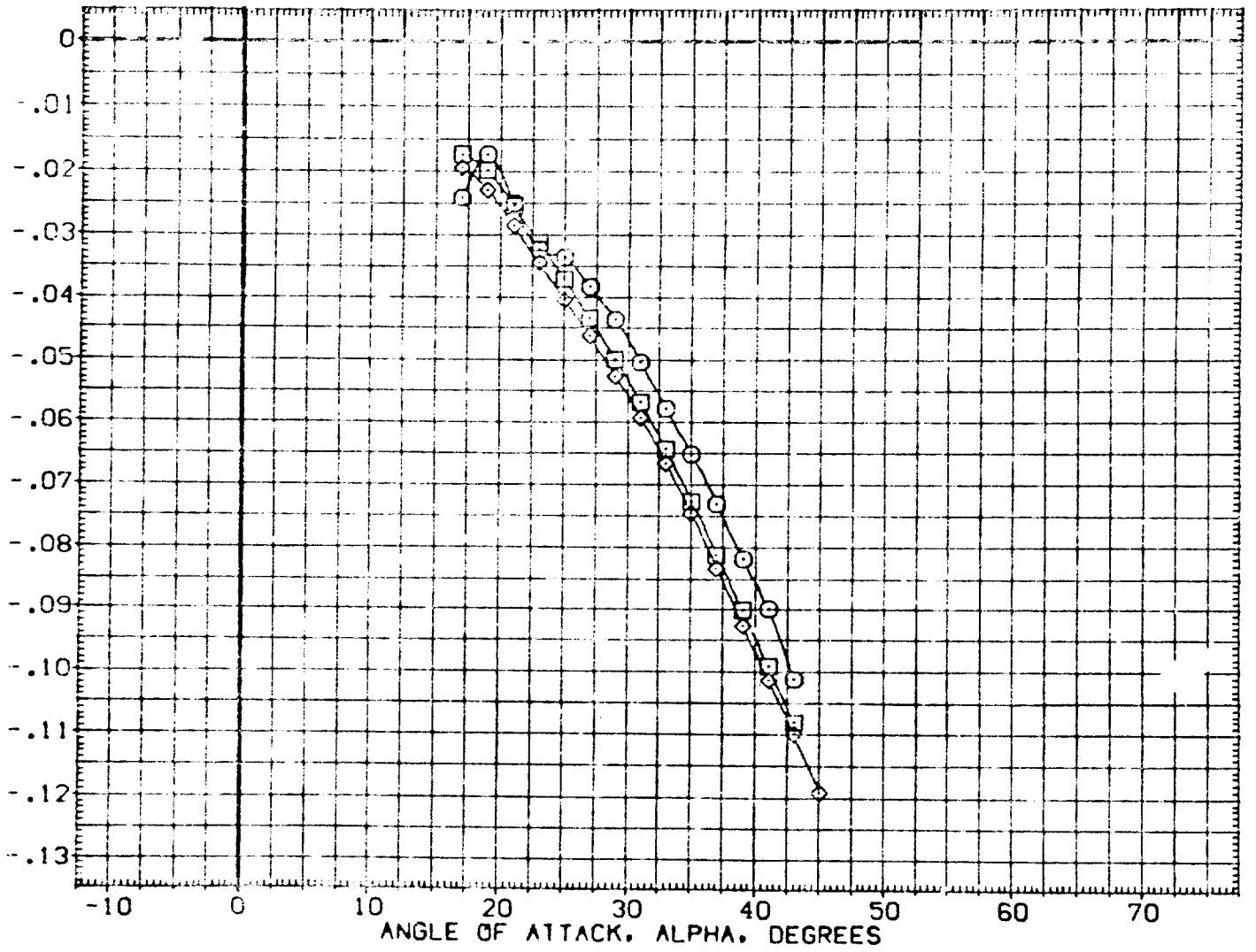


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

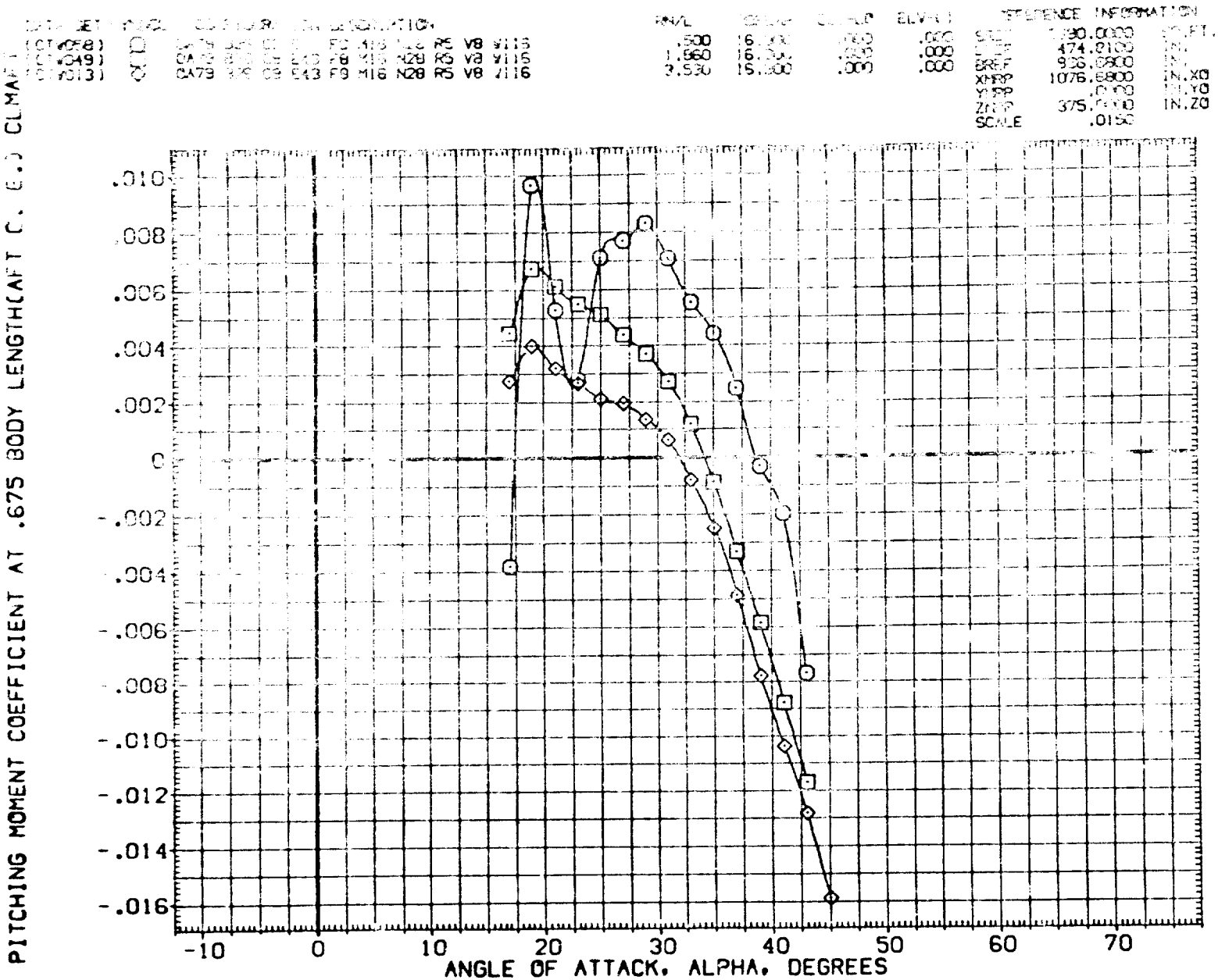


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(OTV058)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	.000	.000
(OTV043)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	.000	.000
(OTV013)	◇	0A79 B26 C9 E43 F8 M16 N26 R5 V8 V116	3.530	16.300	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1073.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

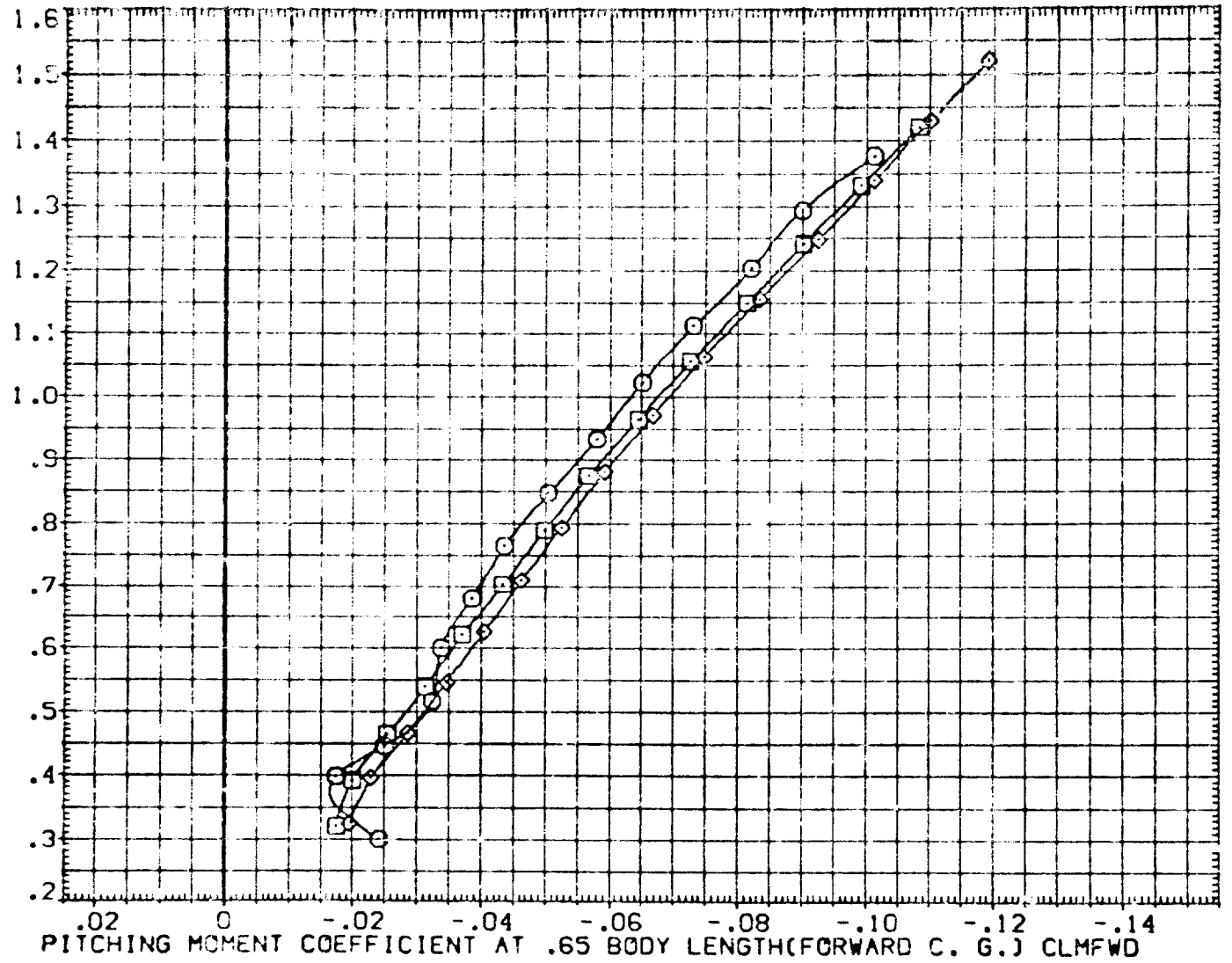


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

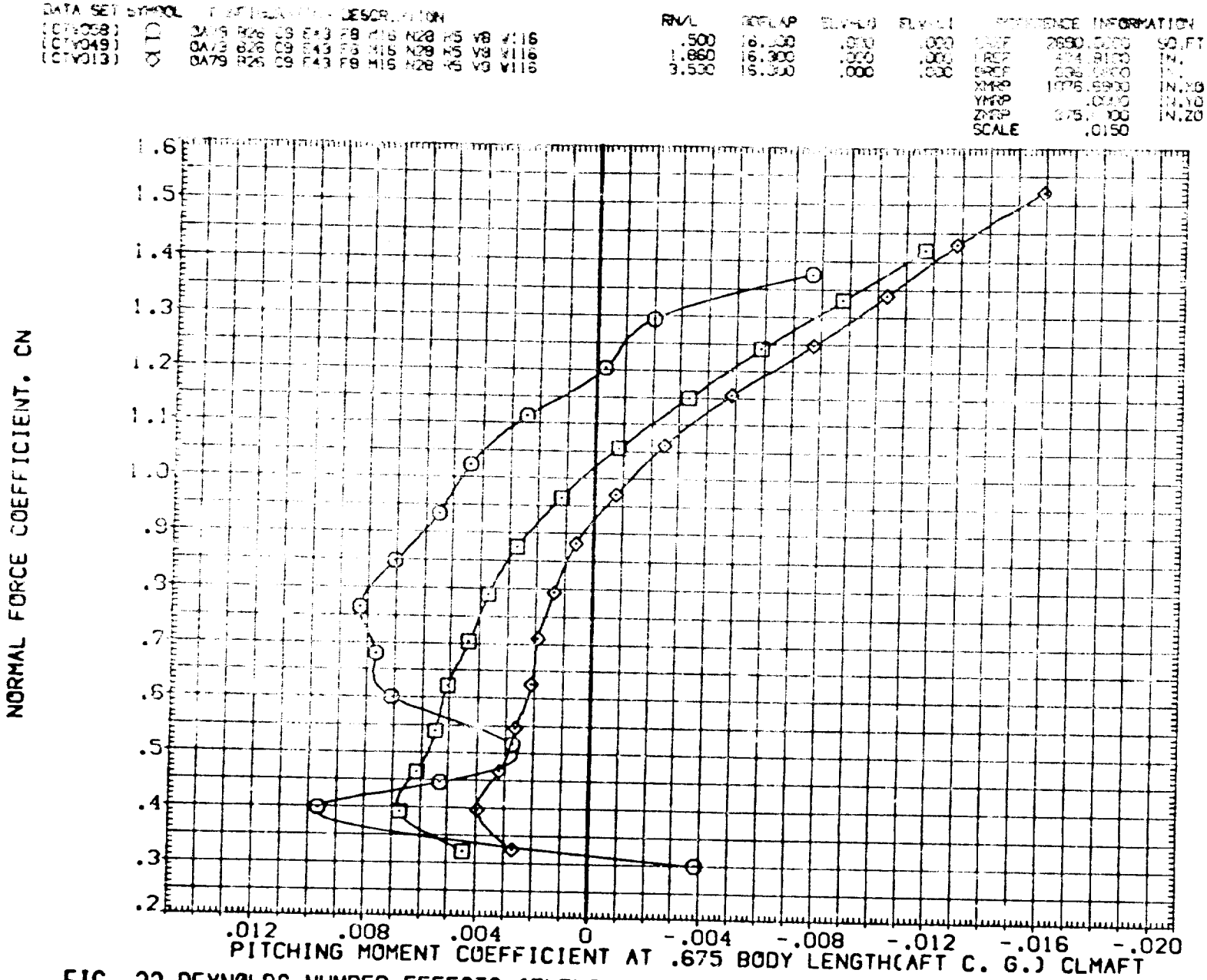


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
[illegible]		[illegible]				
[illegible]		[illegible]				
[illegible]	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	.000	.000
[illegible]	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.960	16.300	.000	.000
[illegible]	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	16.300	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
DREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

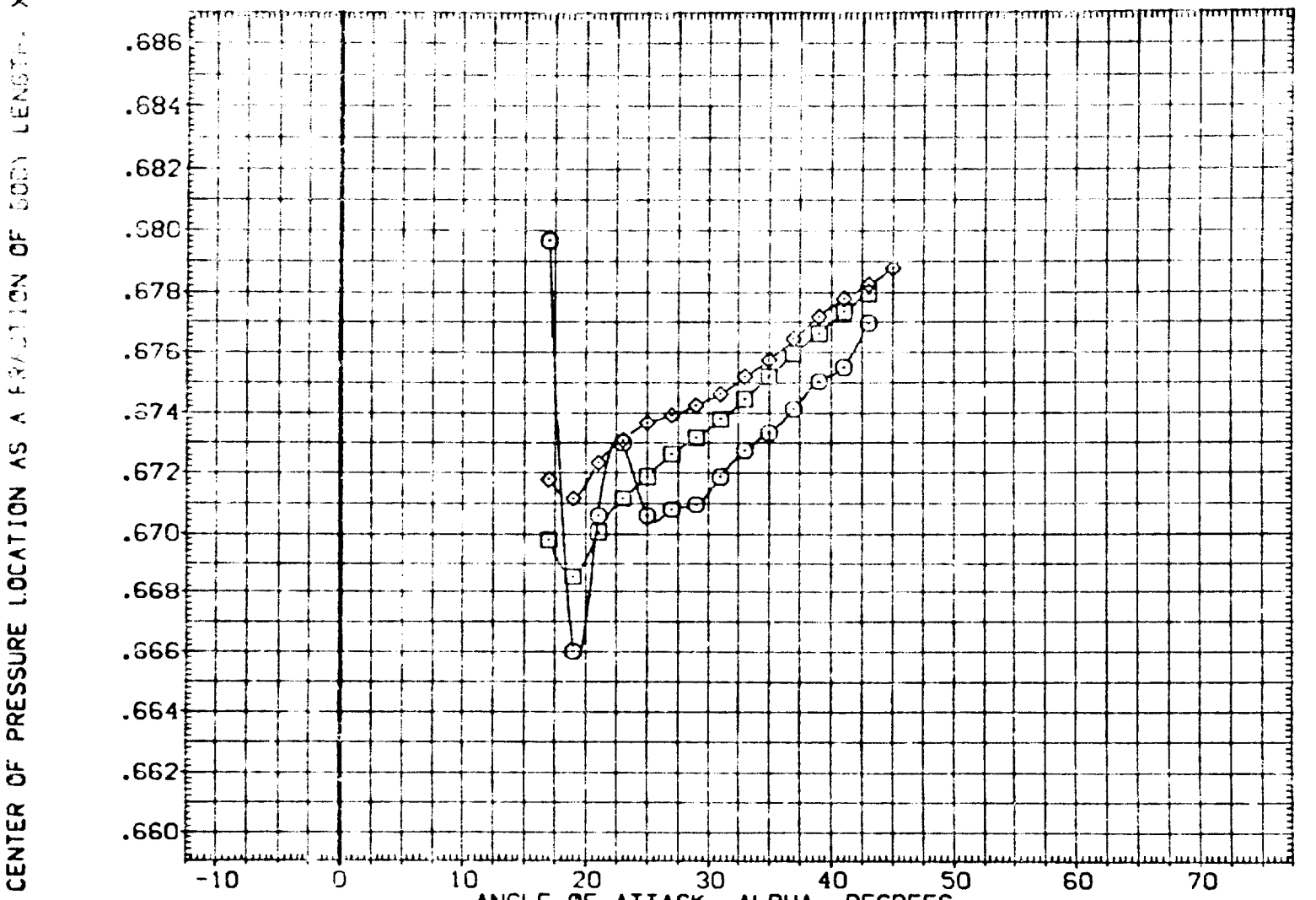


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

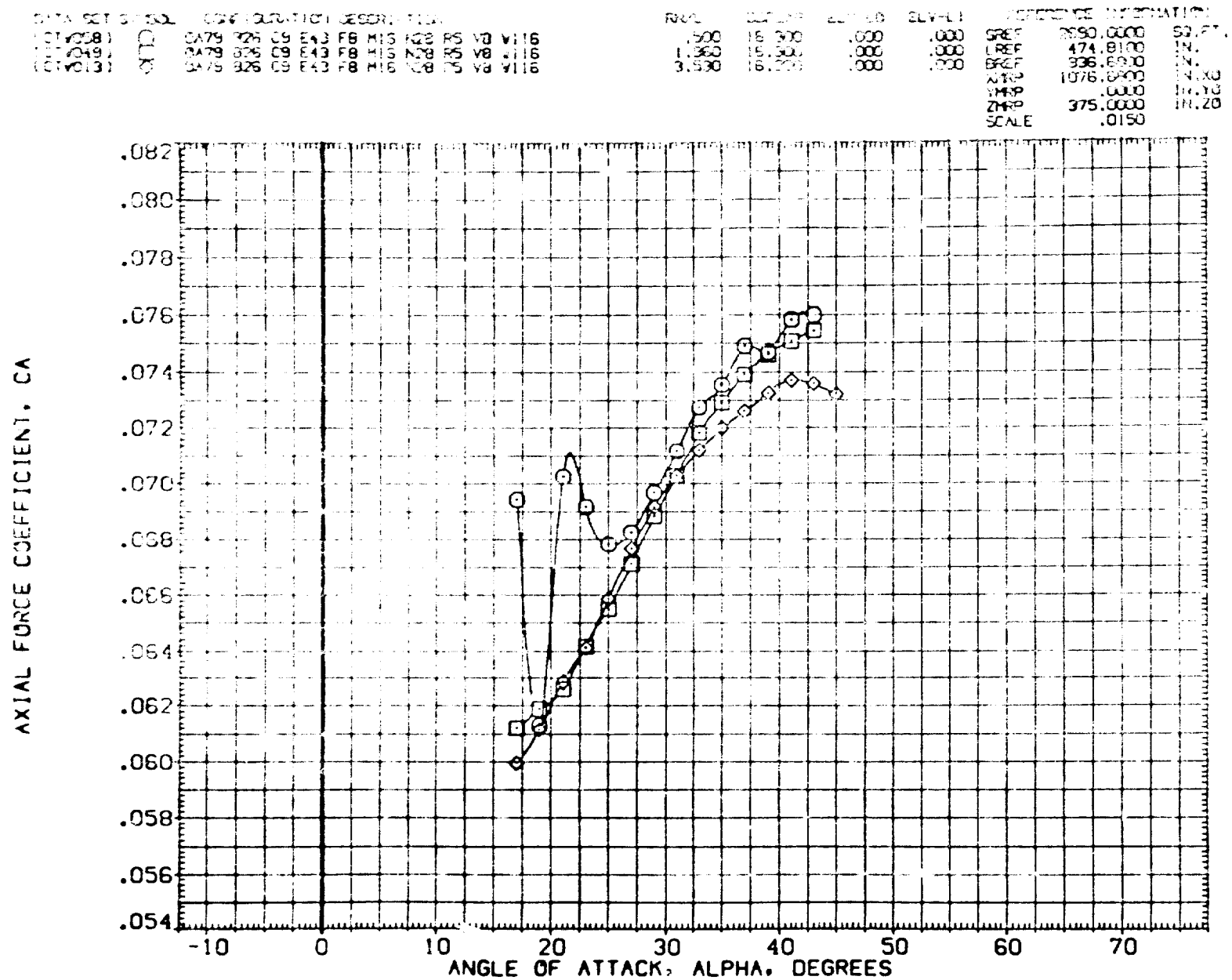


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PNL	BDFLAP	ELV-LO	ELV-LI
(OTW058)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	.000	.000
(OTW049)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	16.300	.000	.000
(OTW013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	16.300	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

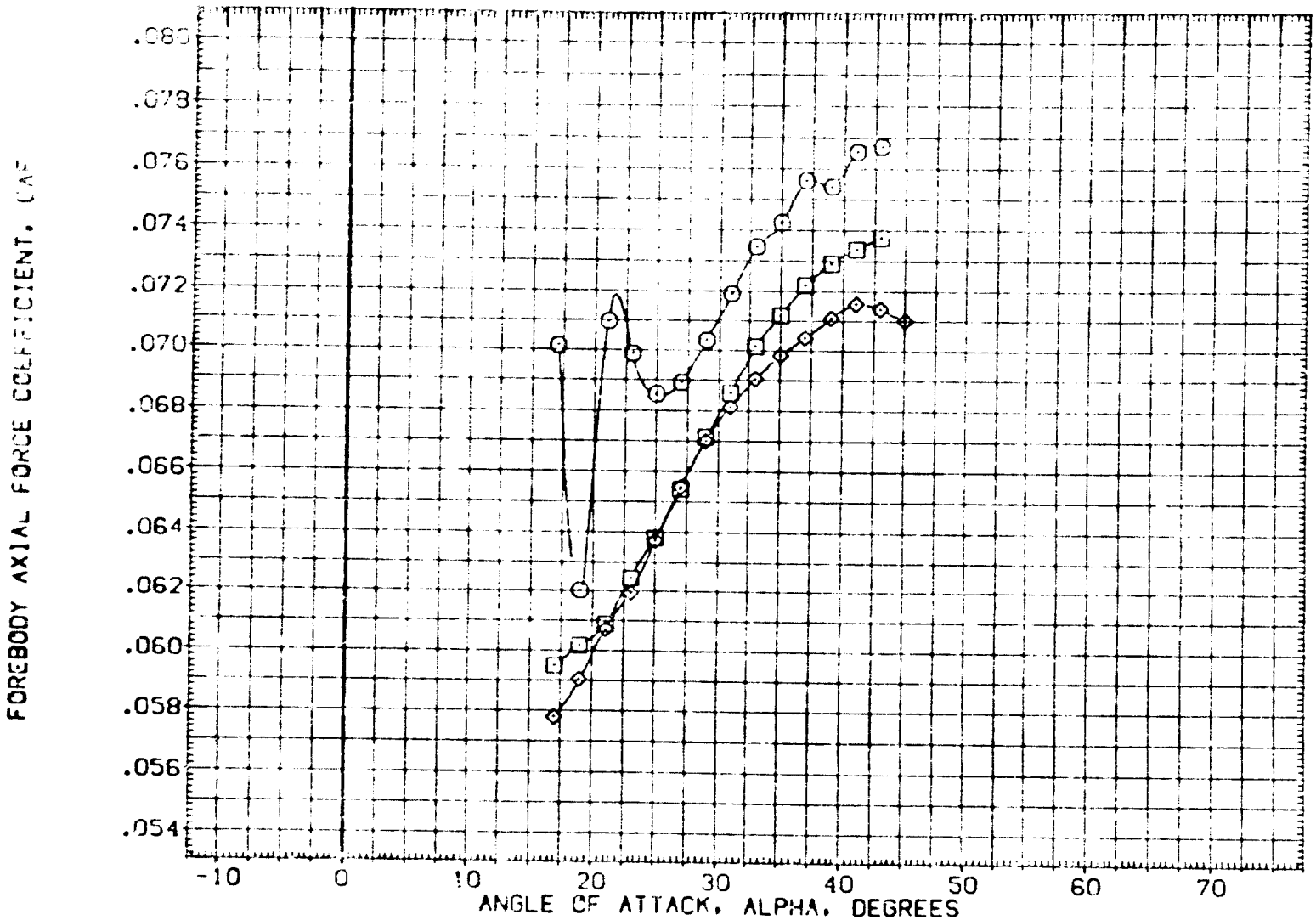


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

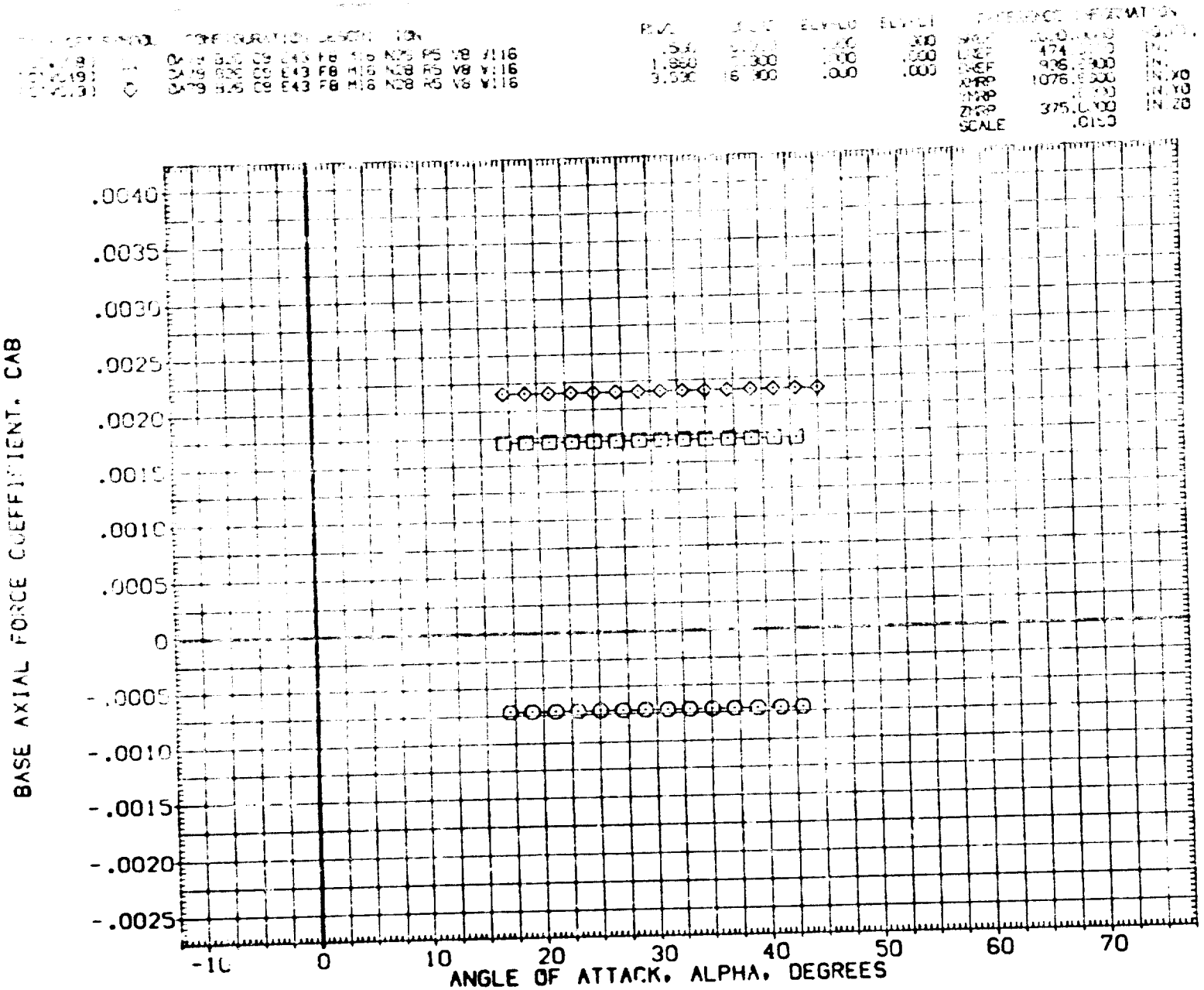


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV058)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV049)	◁	0A73 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV013)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.560	16.300	.000	.000
1.860	16.300	.000	.000
3.530	16.300	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN
XMRP	1076.6800	IN.XG
YMRP	.0000	IN.YG
ZMRP	375.0000	IN.ZG
SCALE	.0150	

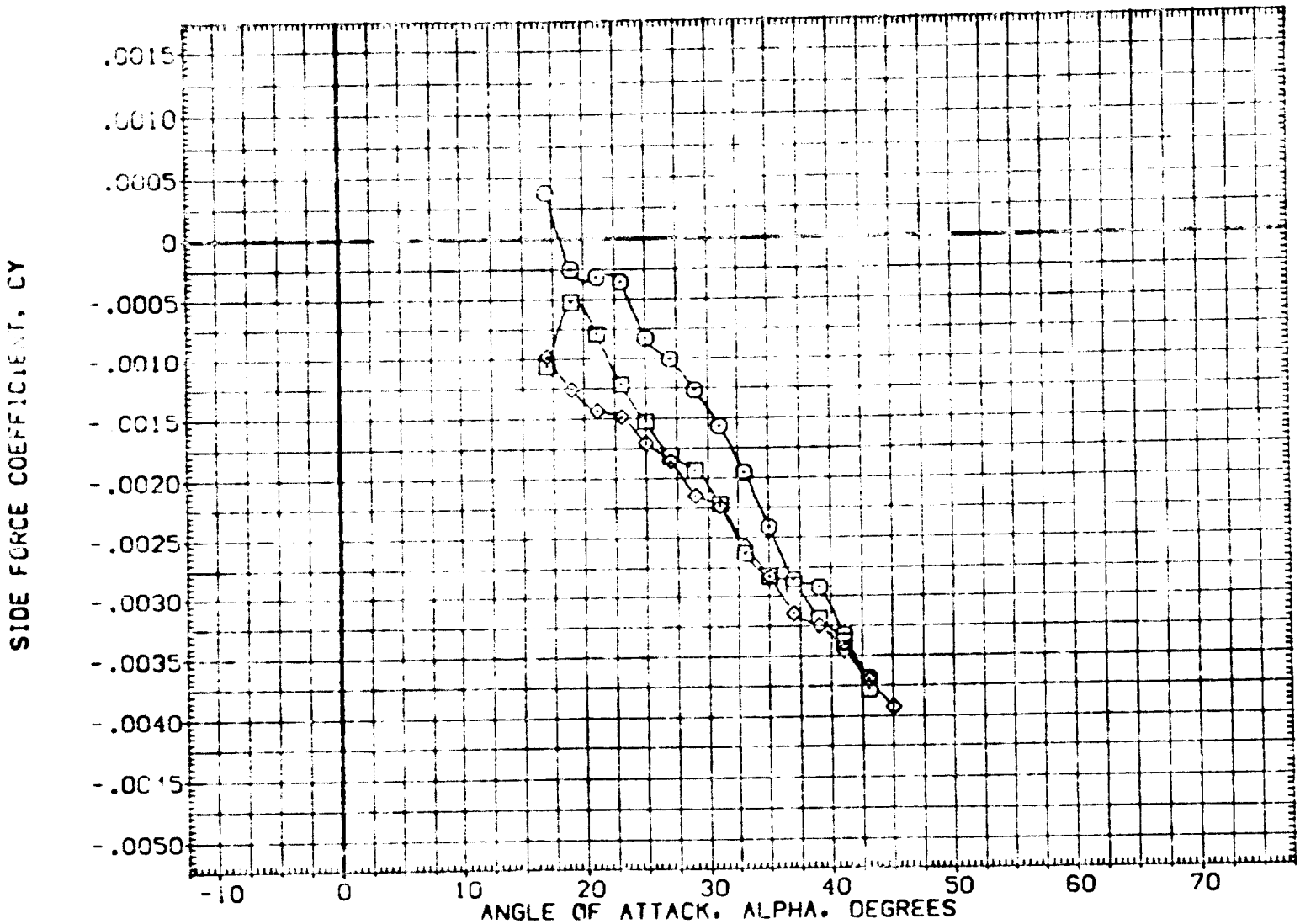


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

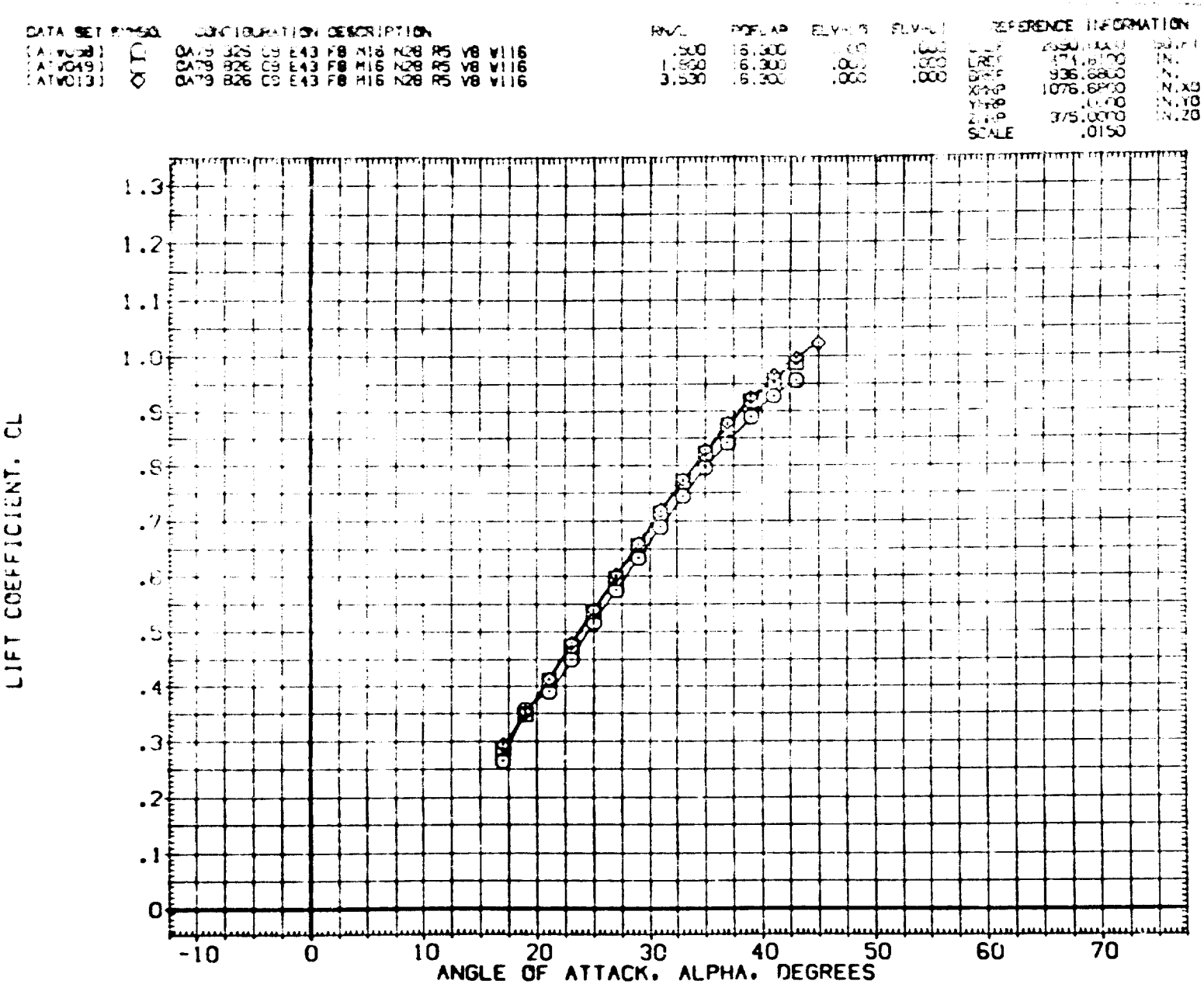


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(A)V059	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	.000	.000
(A)V049	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	16.300	.000	.000
(A)V013	CA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	16.300	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9100	IN.
BREF	936.6900	IN.
XMRP	1076.6800	IN.X8
YMRP	.0000	IN.Y8
ZMRP	375.0300	IN.Z8
SCALE	.0150	

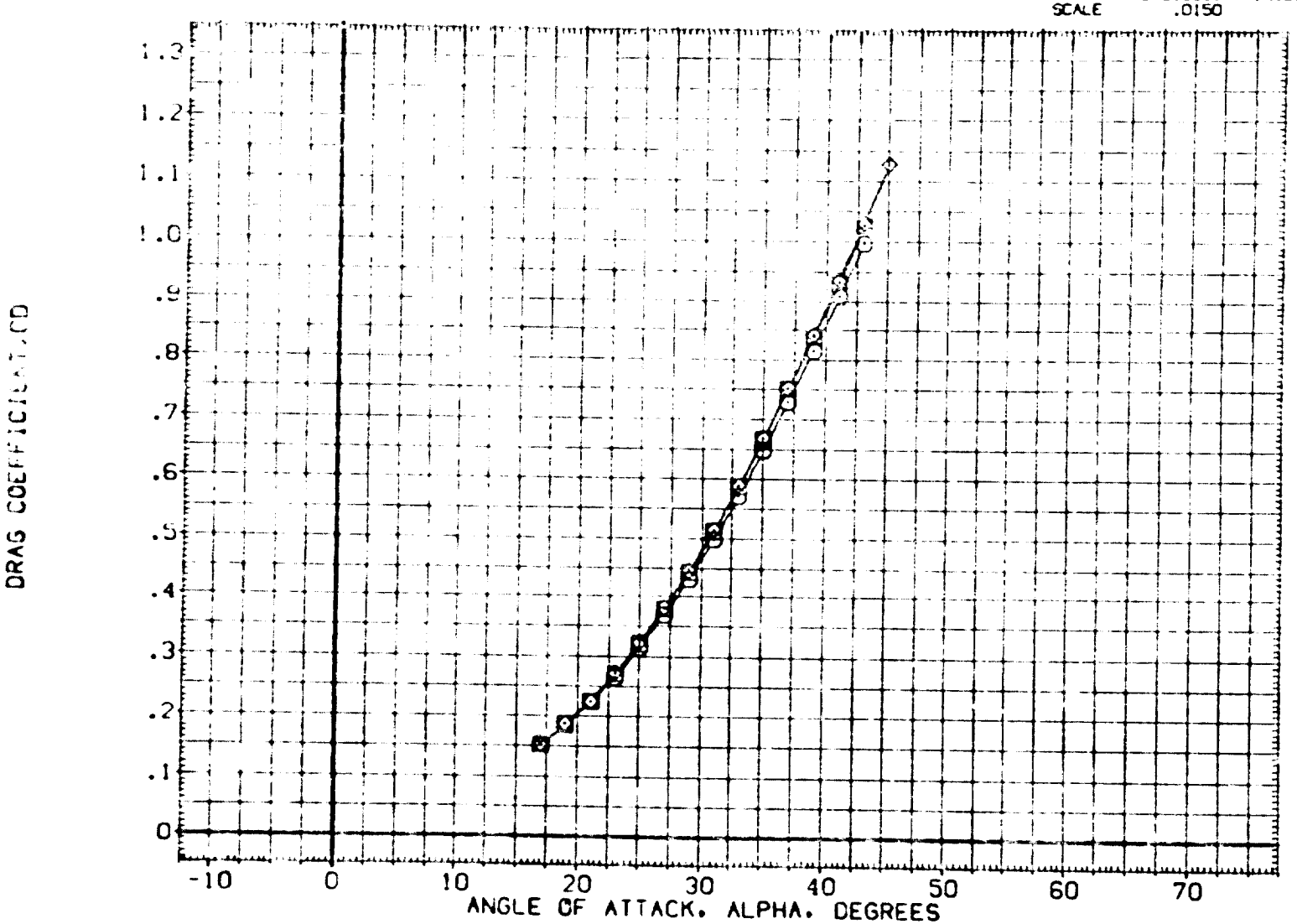


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

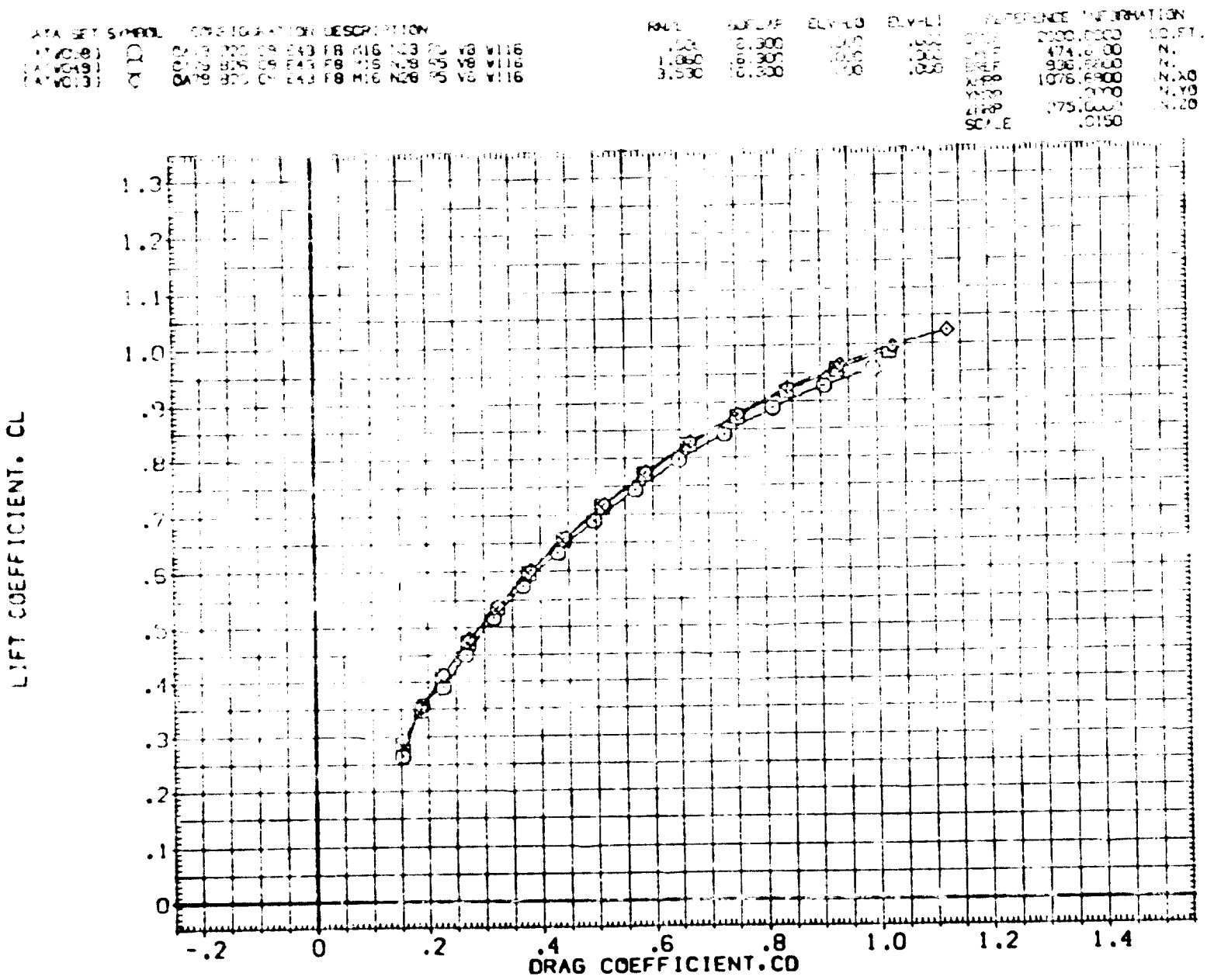


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
[illegible]		[illegible]				
[illegible]		[illegible]				
[illegible]		[illegible]	.500	16.300	.000	.000
[illegible]		[illegible]	1.860	16.300	.000	.000
[illegible]		[illegible]	3.530	16.300	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.2800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

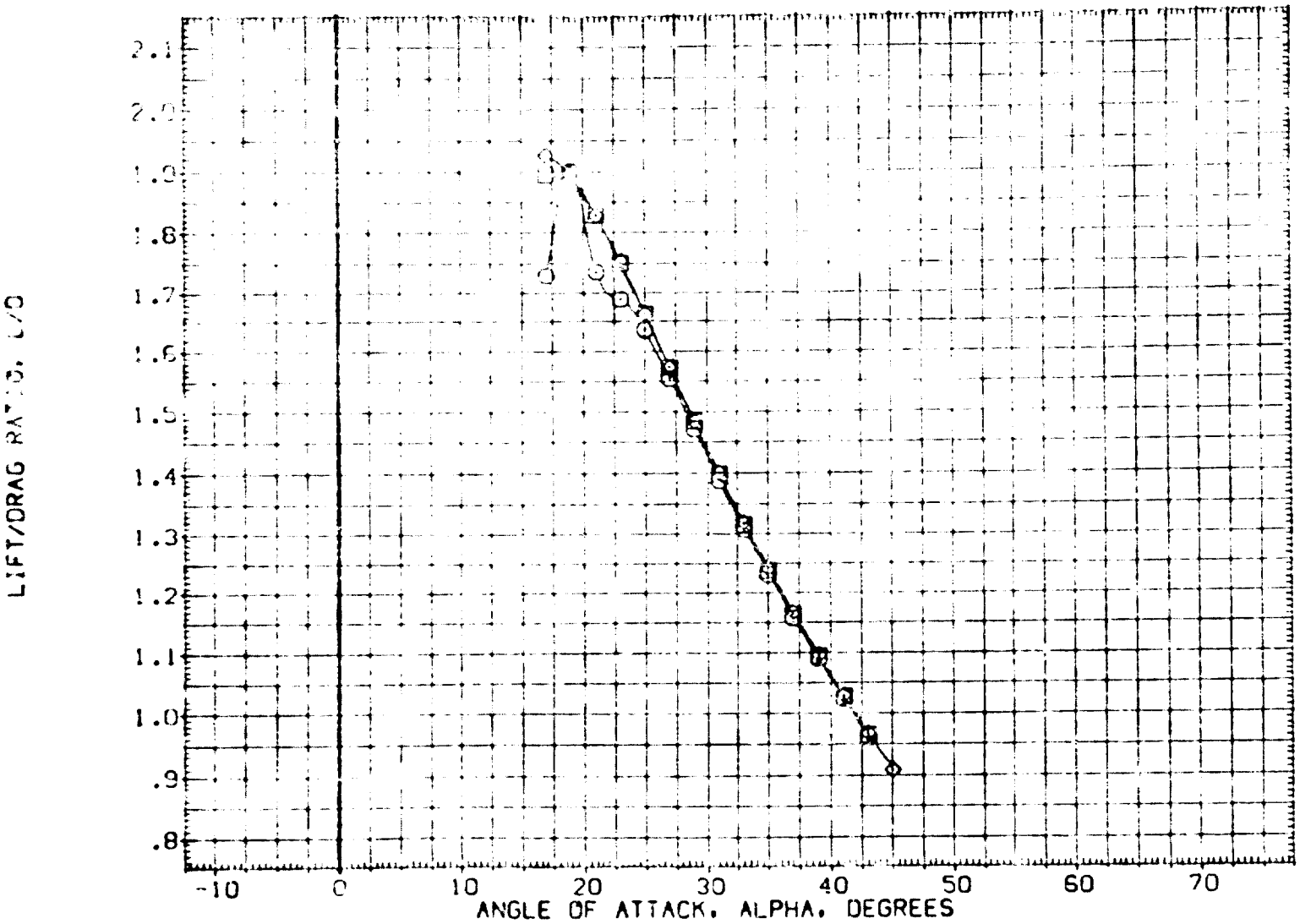


FIG. 22 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP= 16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV048)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV012)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.4900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

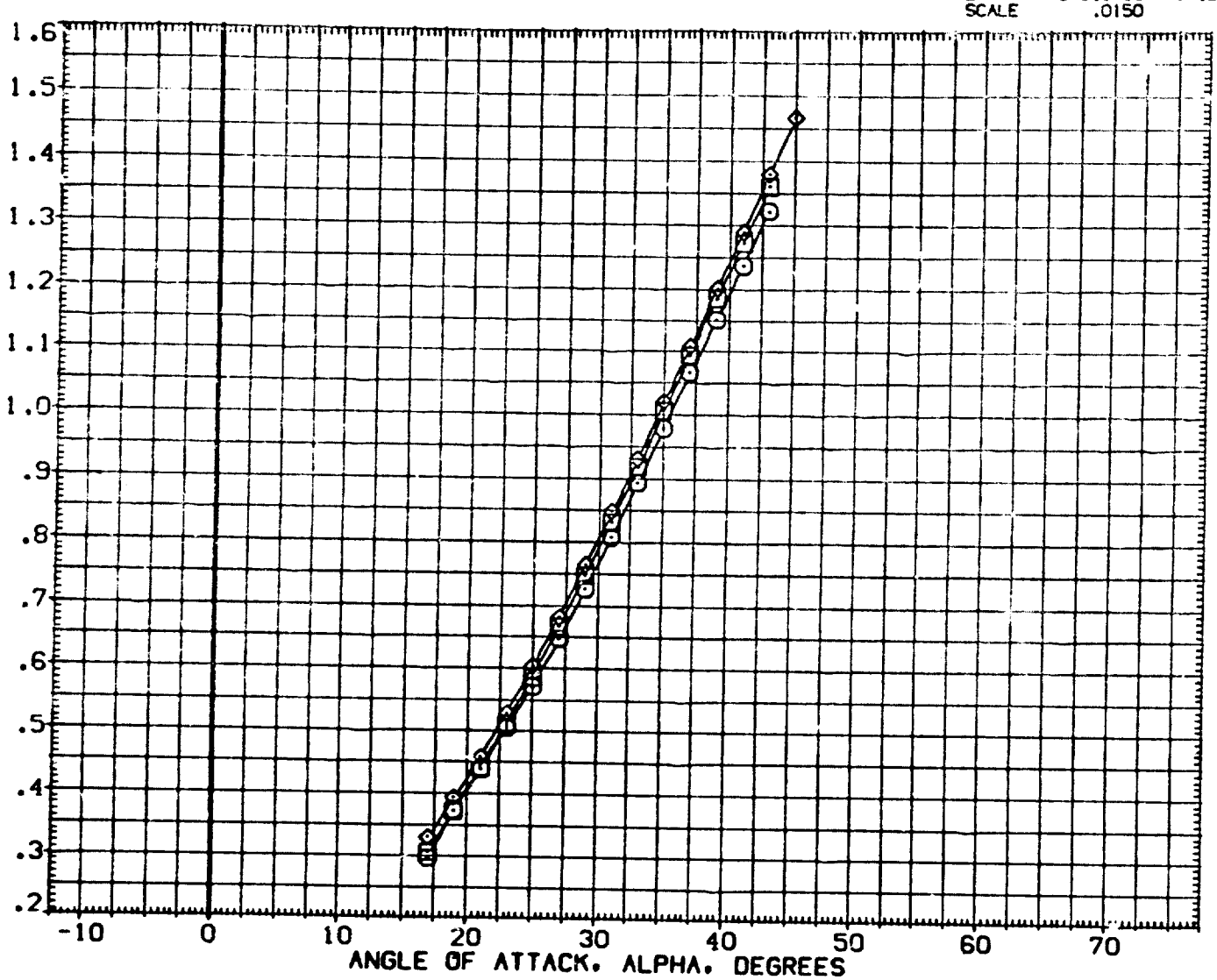


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV059) ○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV048) □	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV012) ◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.960	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

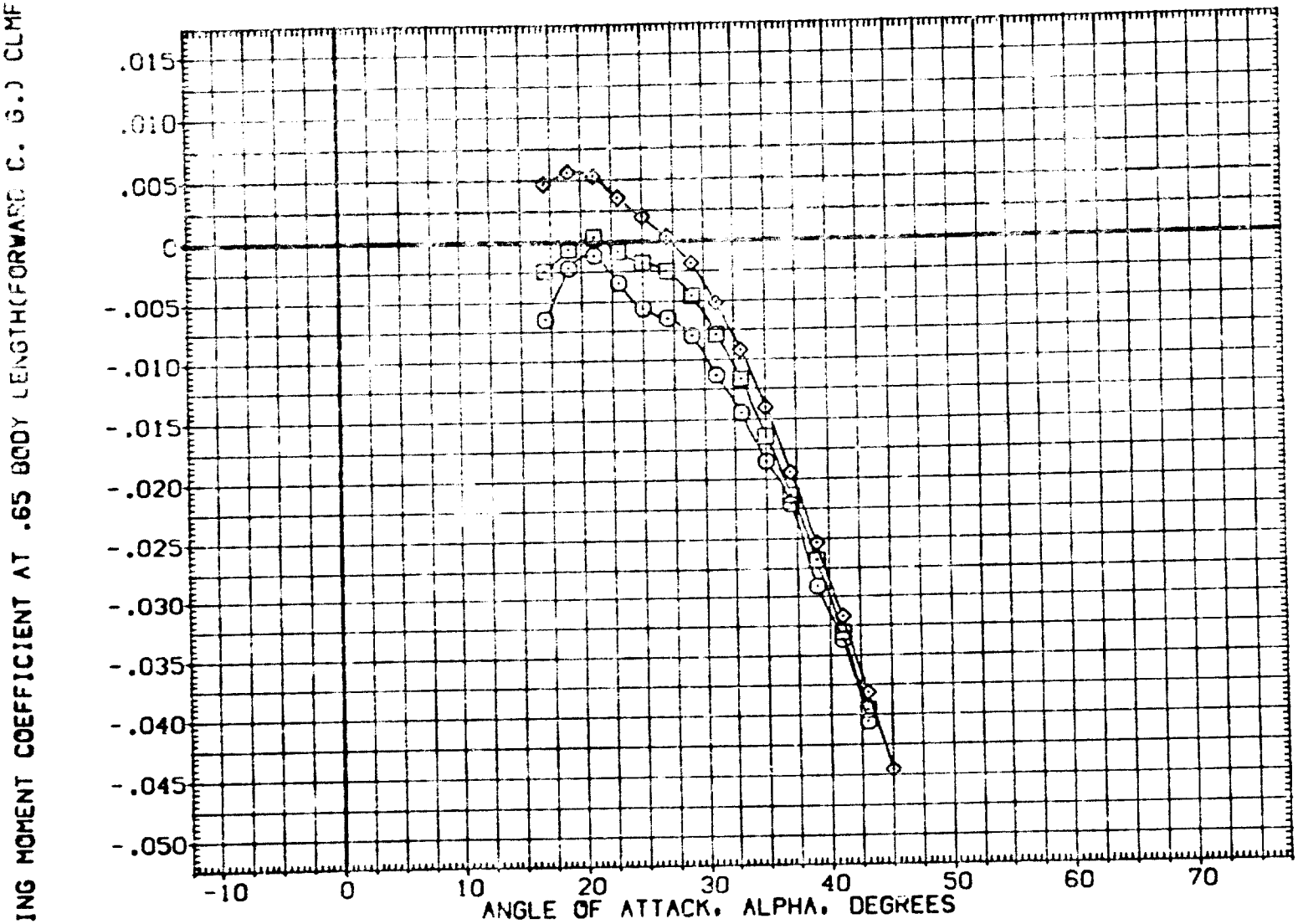


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16
(CTV048)	□	OA79 B26 C9 E43 F8 H15 N29 R5 V8 W16
(CTV012)	◇	OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.890	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
DREF	936.0000	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

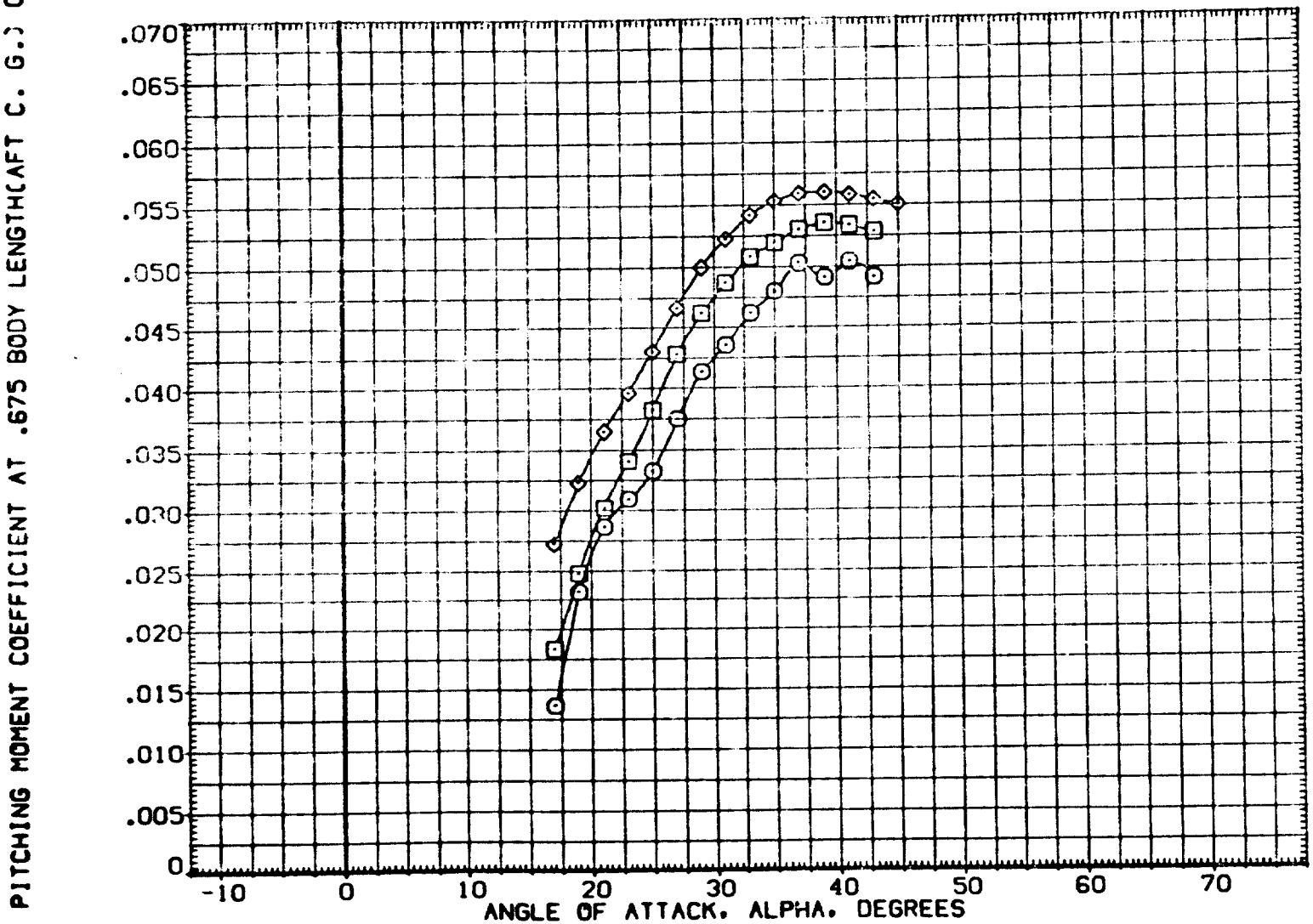


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	-11.700	.000	.000
(CTV048)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	-11.700	.000	.000
(CTV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

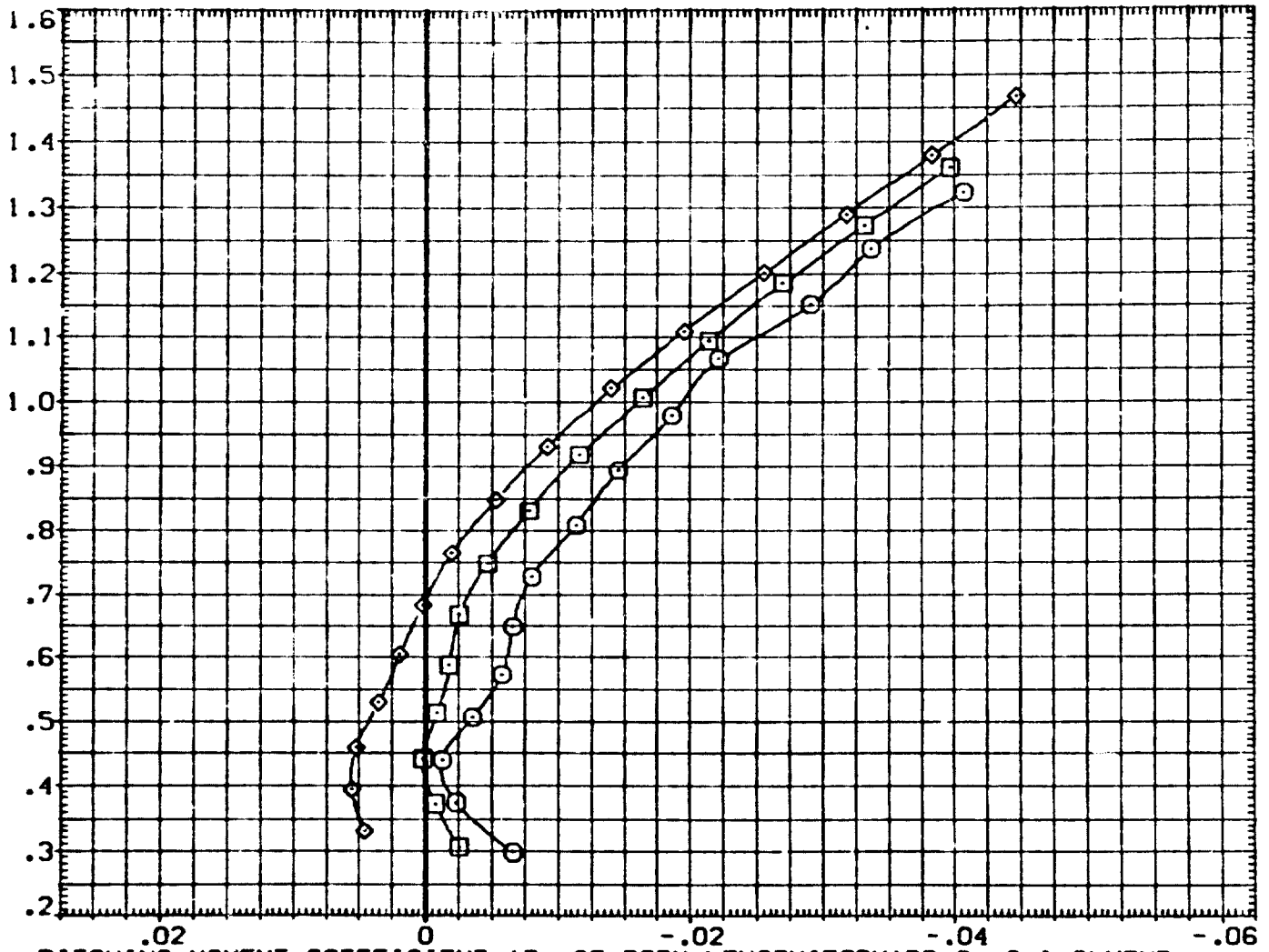


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV018)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

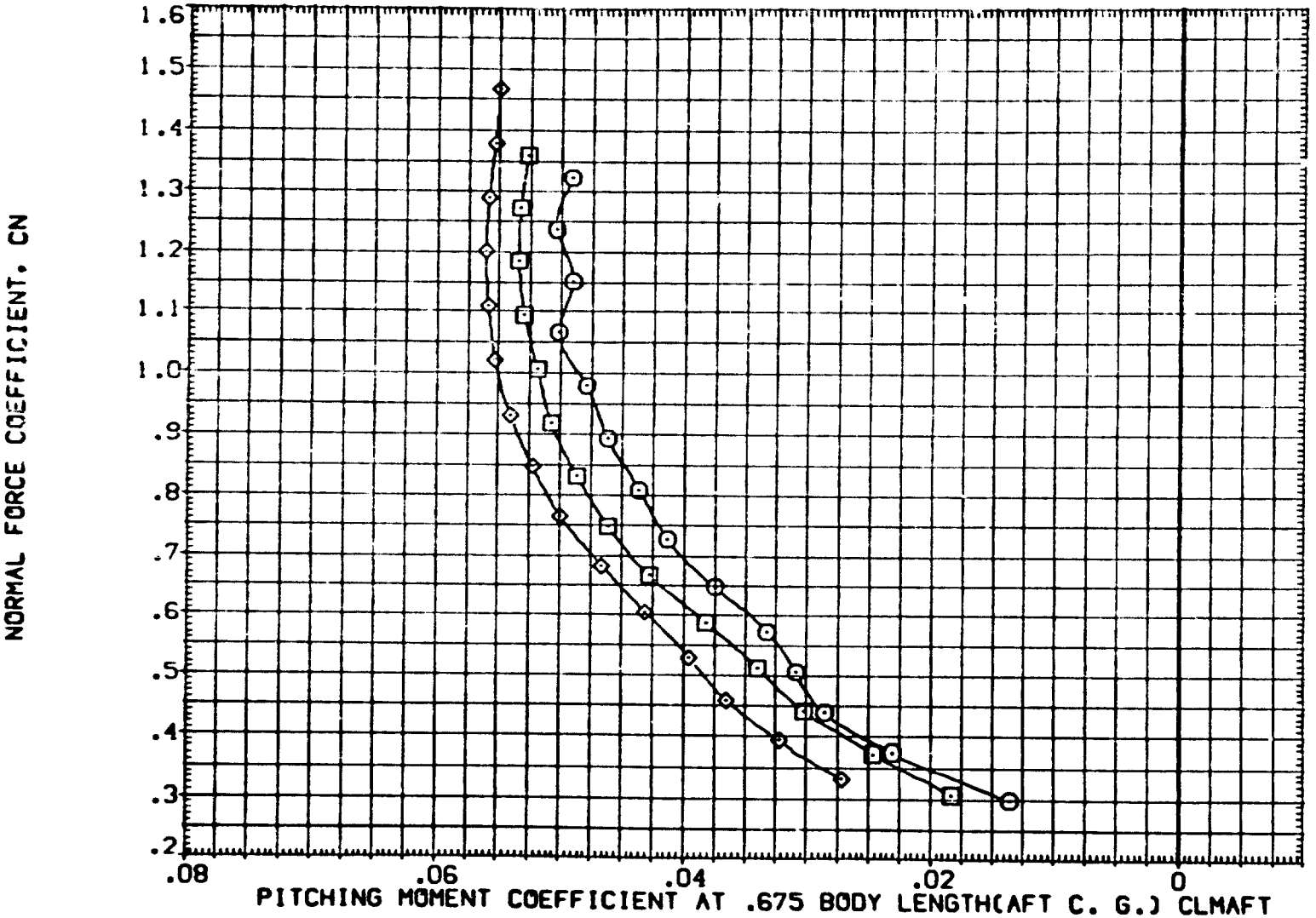


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(C1V059)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(C1V048)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(C1V012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

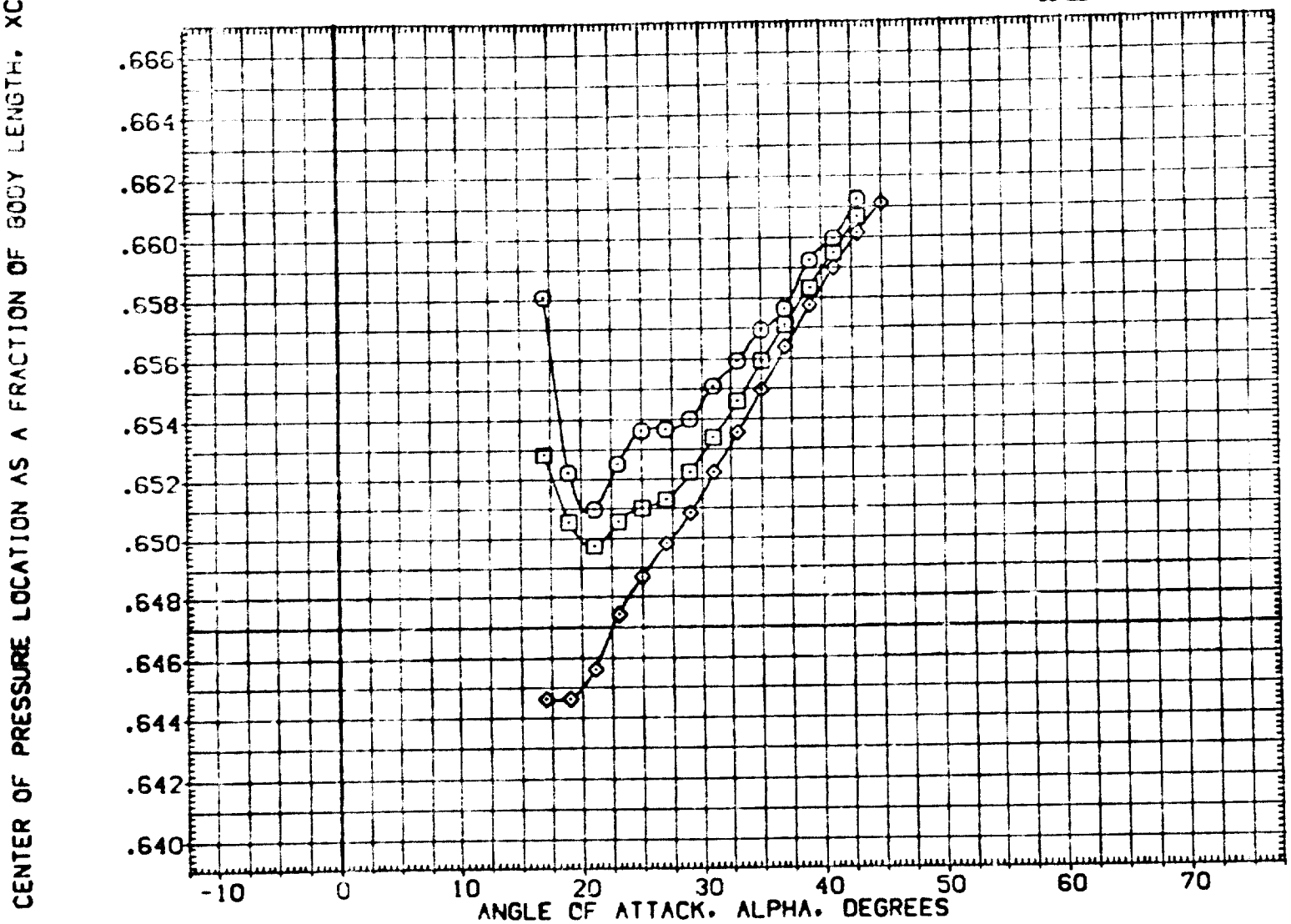


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV049)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RNVL	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.8800	IN.
XMRP	1076.9600	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

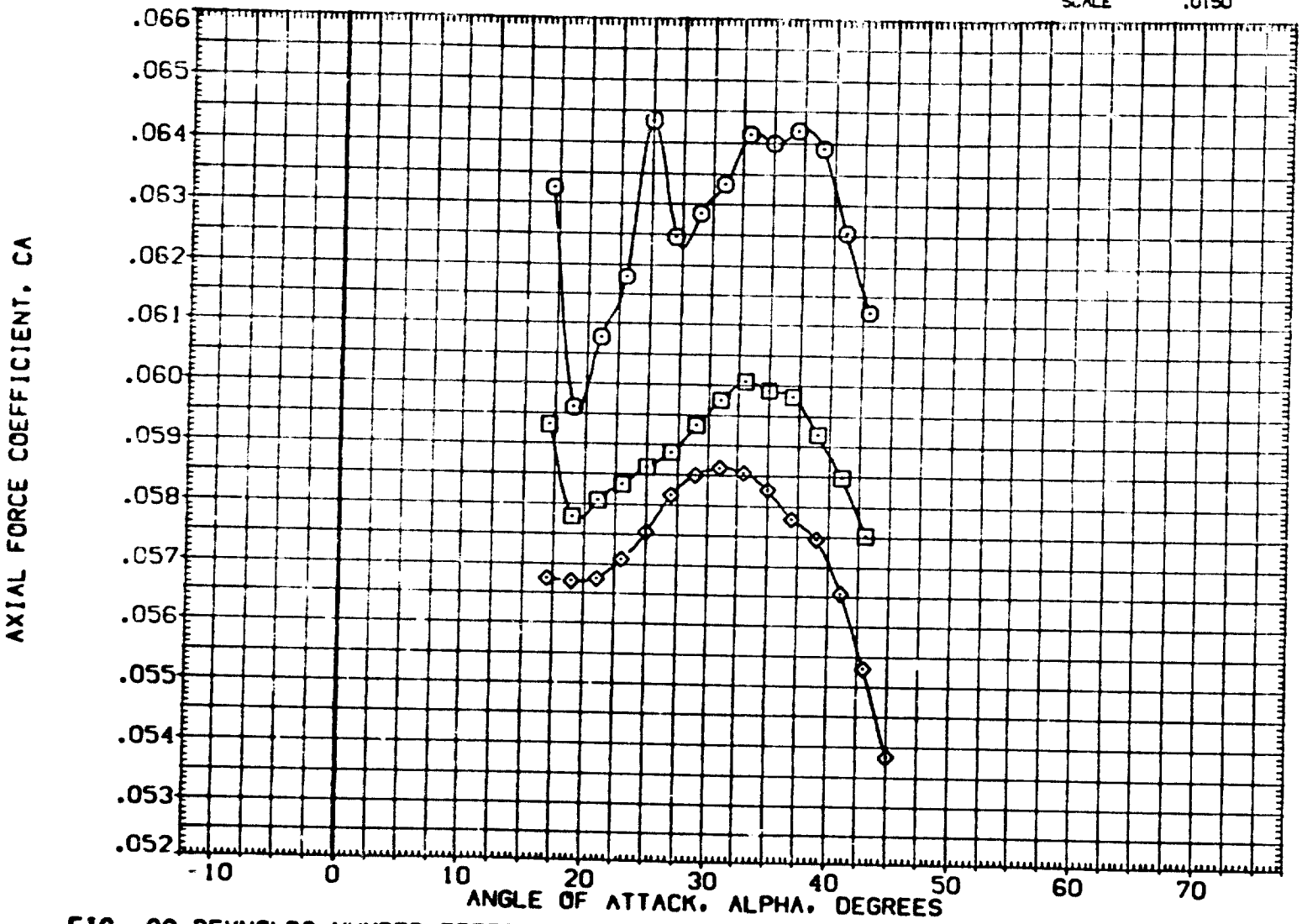


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV048)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

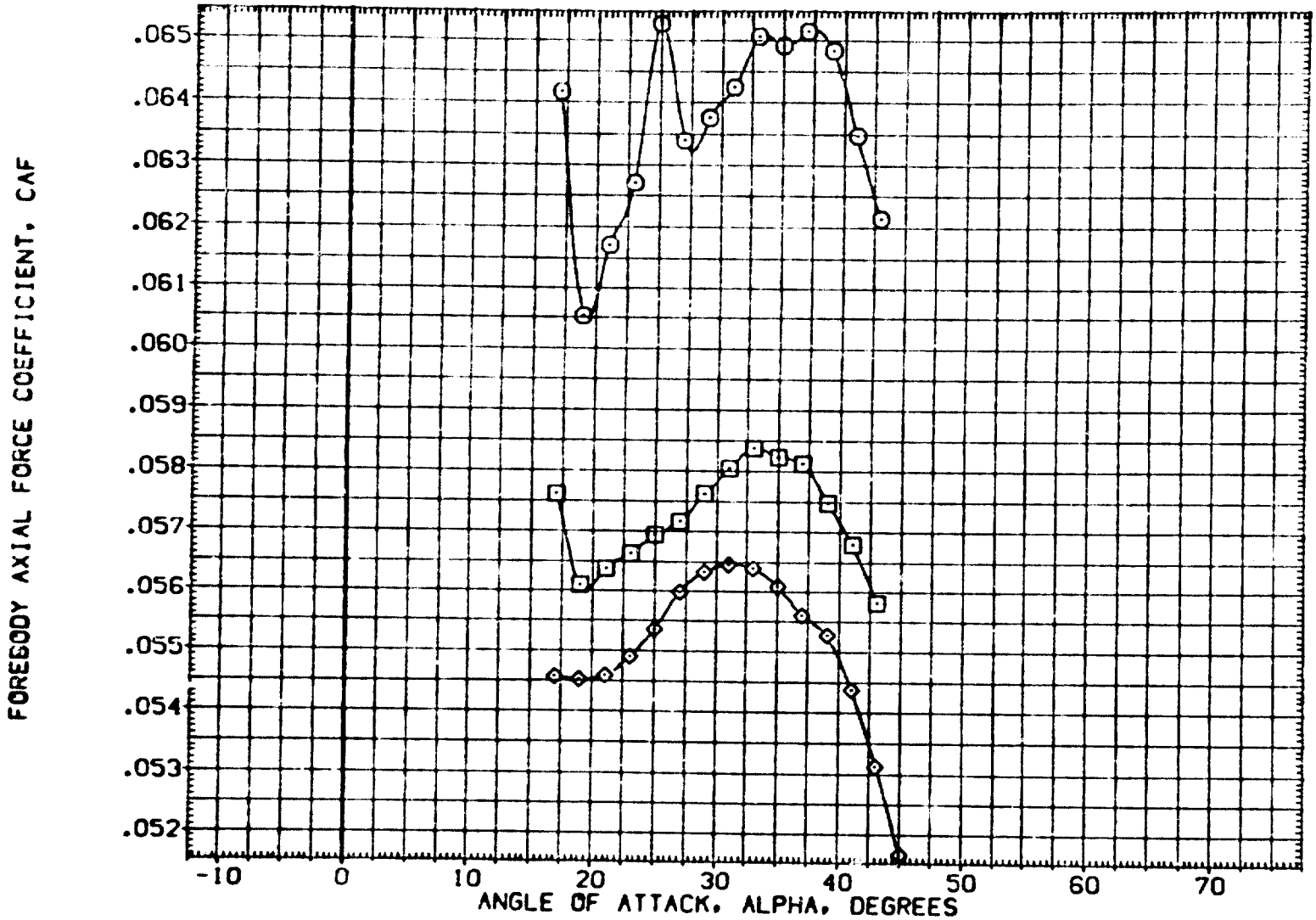


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV048)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RNVL	BDFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.4400	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

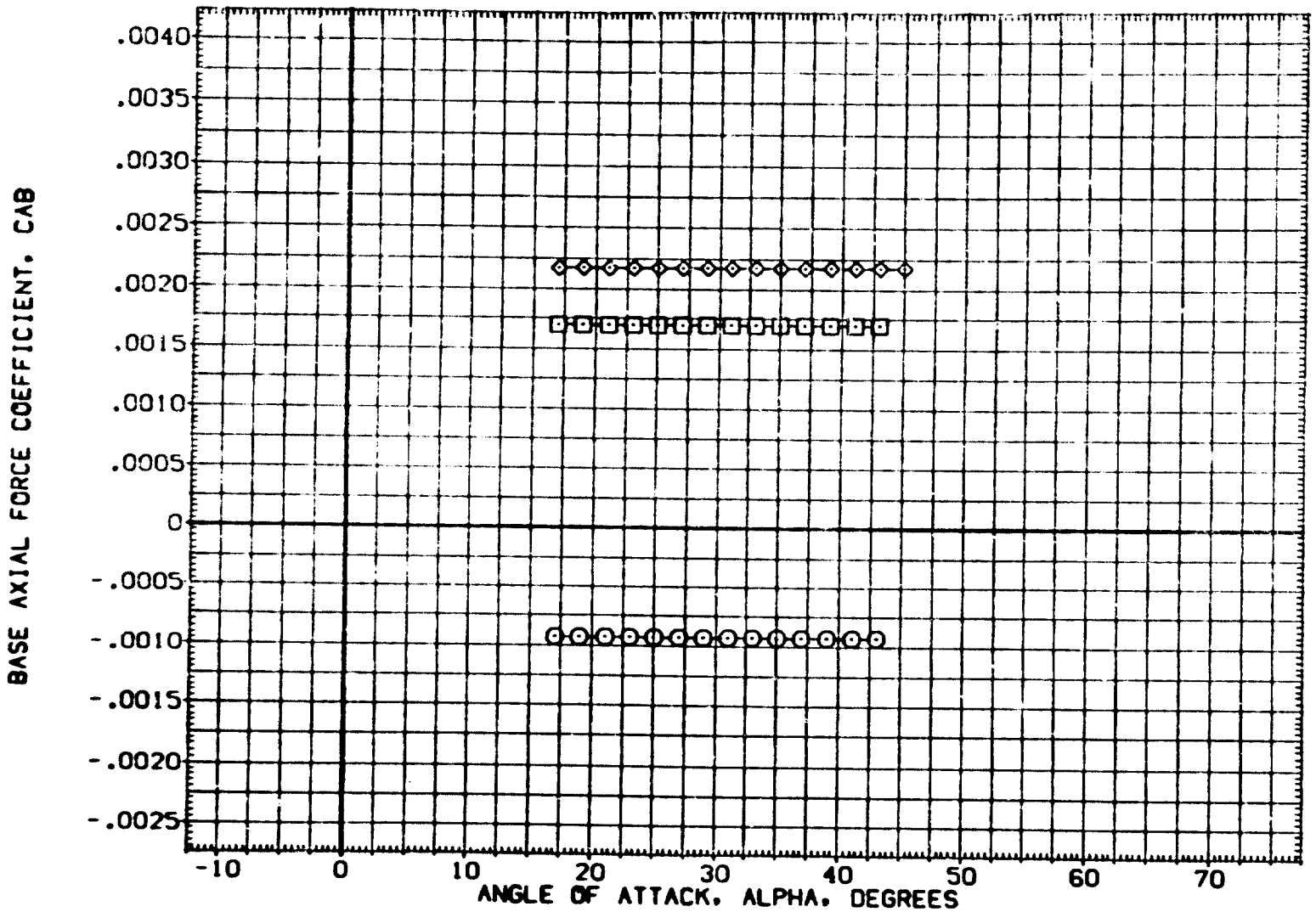


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV059)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	-11.700	.000	.000
(CTV048)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	-11.700	.000	.000
(CTV012)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	935.6900	IN.
XMRP	1078.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

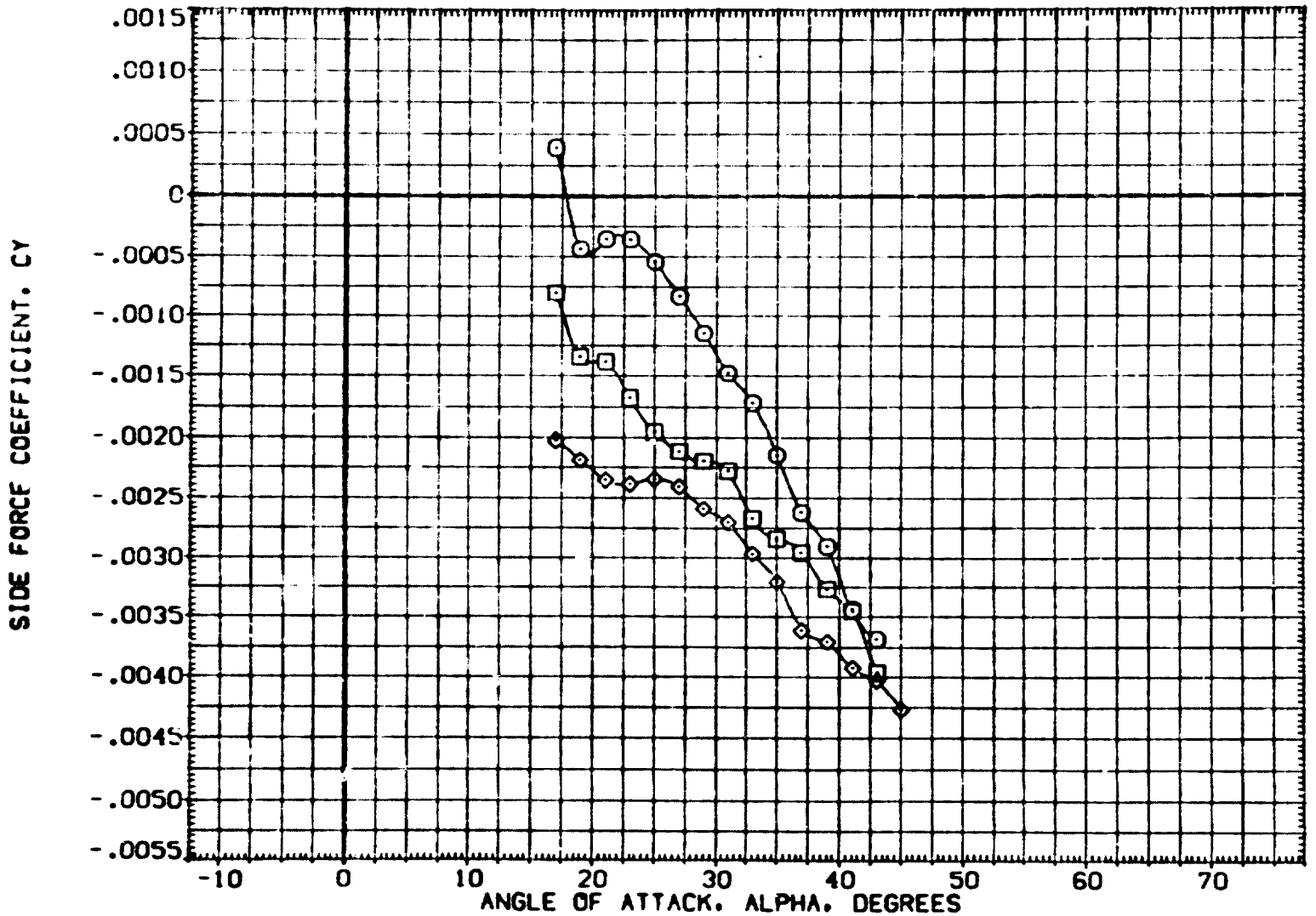


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV059)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV048)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.0900	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

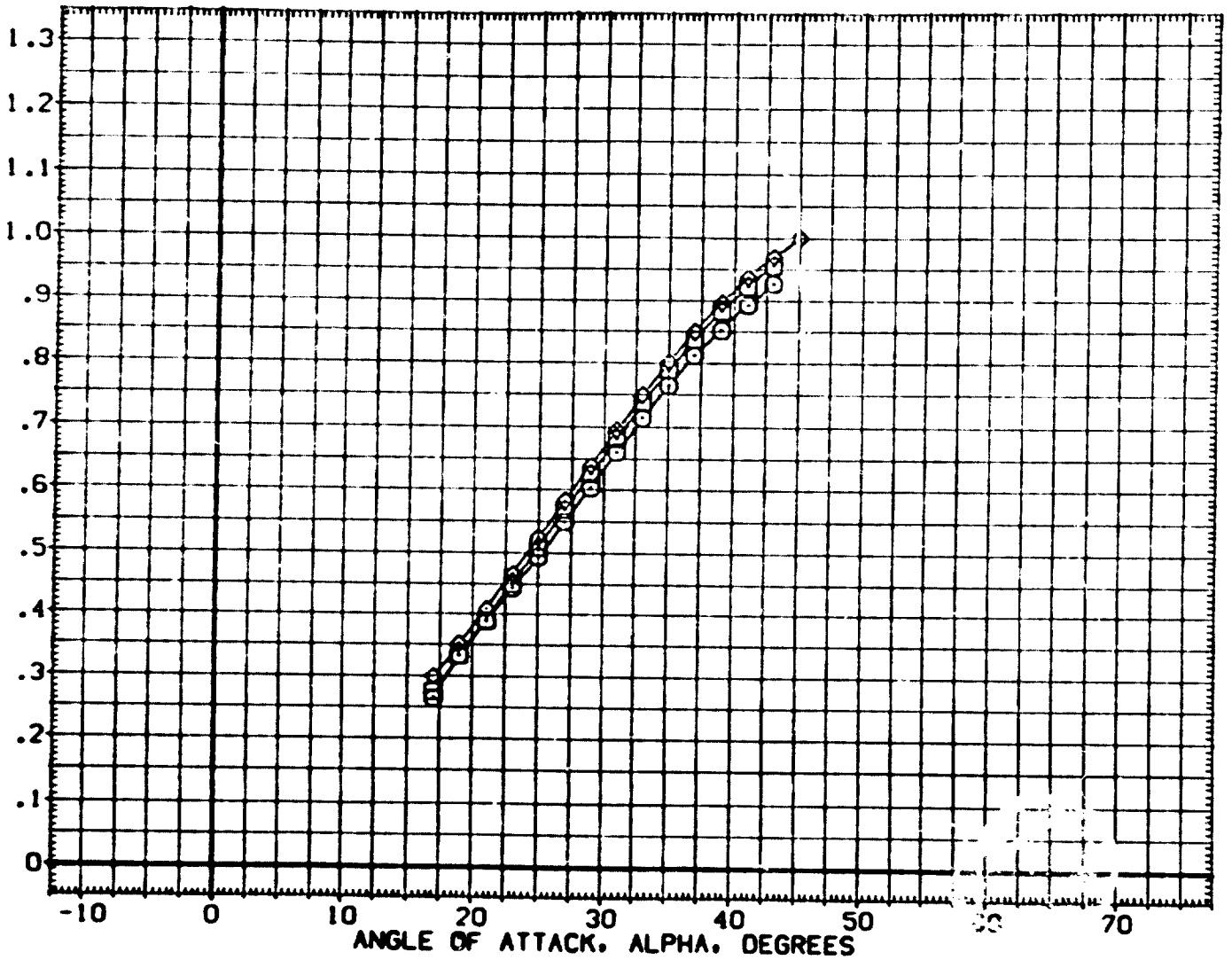


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATV059)	○	0A79 B26 C3 E43 F8 H16 N28 R5 V8 V116	.500	-11.700	.000	.000
(ATV048)	□	0A79 B2E C9 E43 F8 H16 N28 R5 V8 V116	1.860	-11.700	.000	.000
(ATV012)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

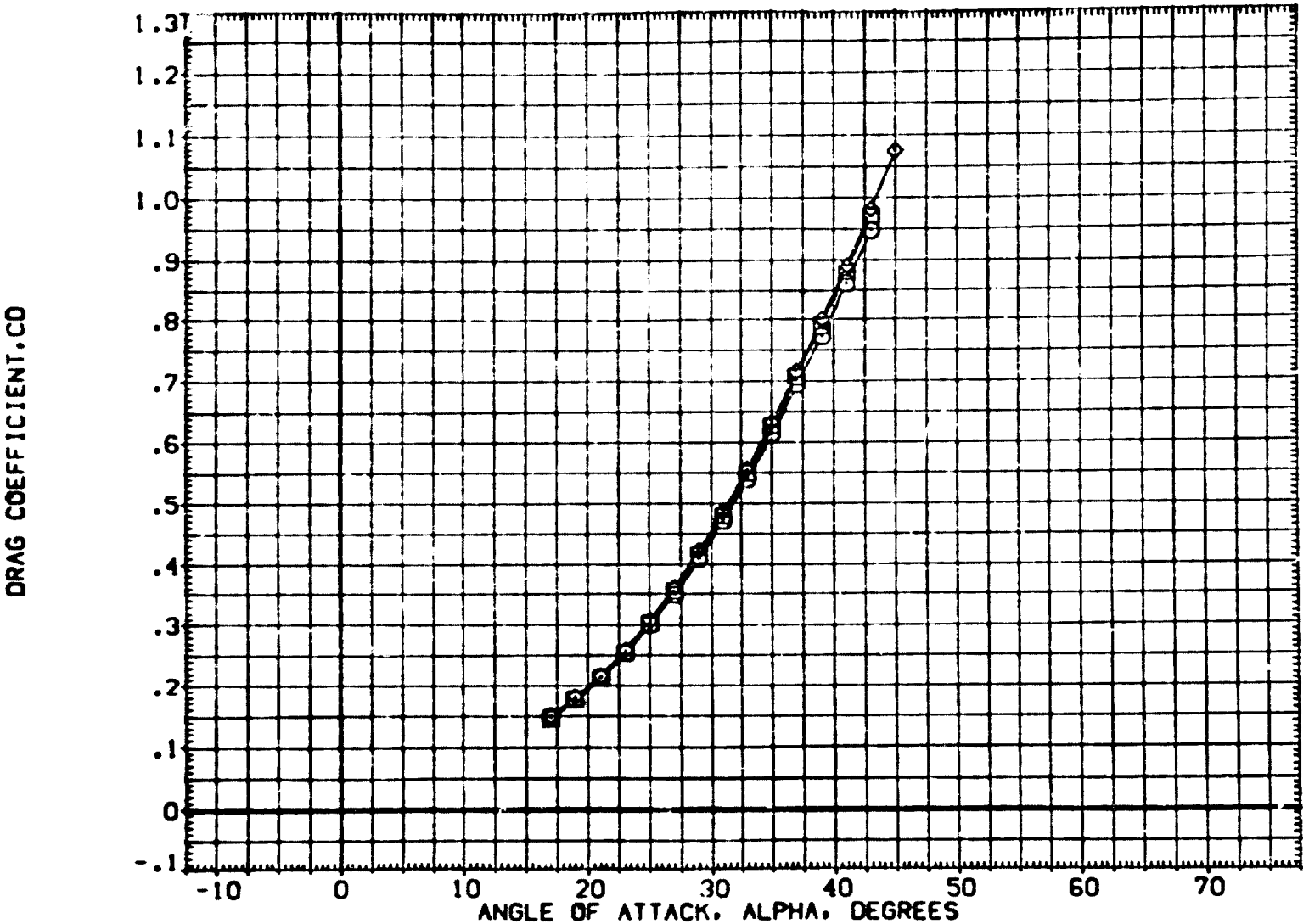


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATW059)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATW048)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATW012)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RNVL	BOFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

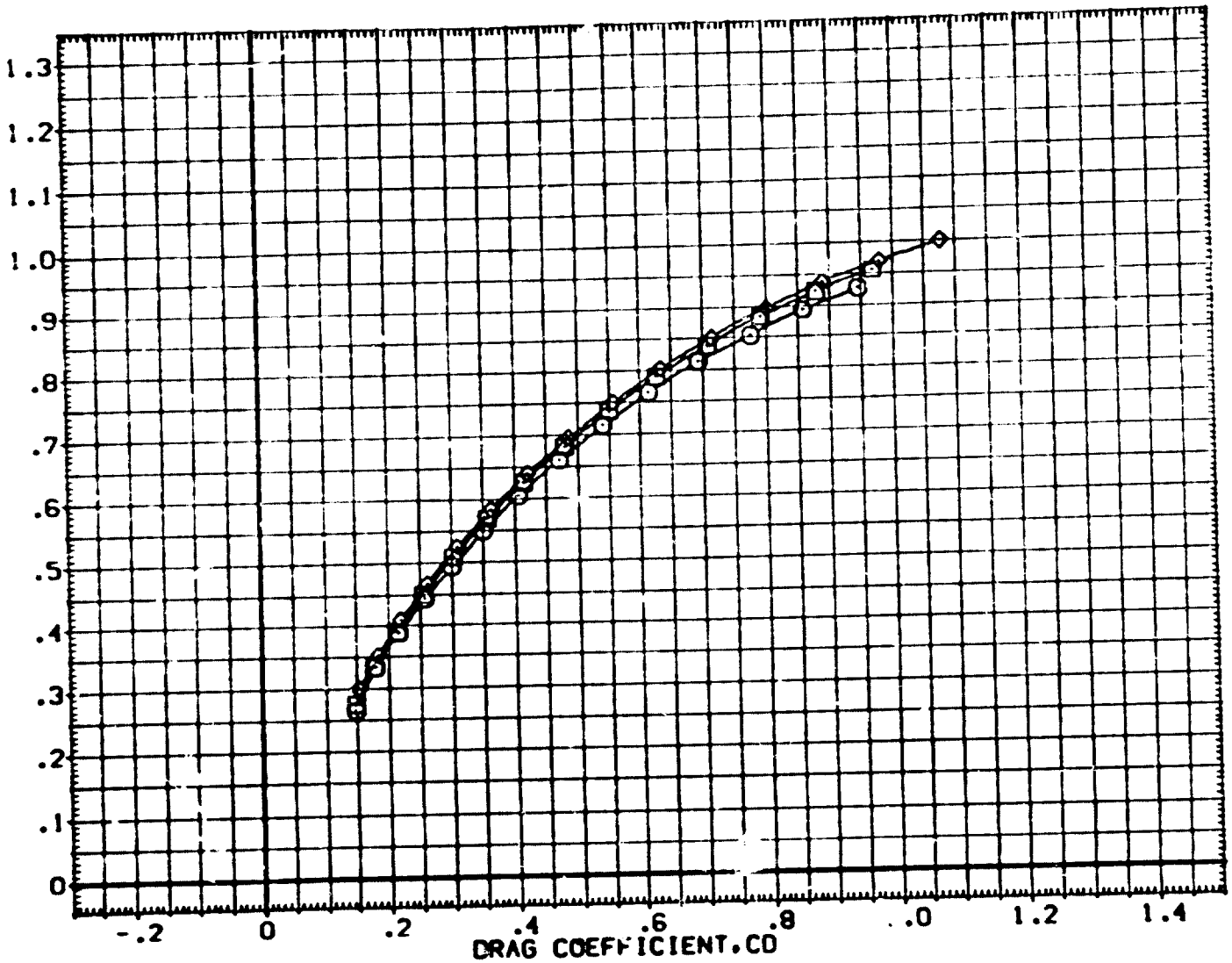


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0. BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV059)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV048)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(ATV012)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	-11.700	.000	.000
1.860	-11.700	.000	.000
3.530	-11.700	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

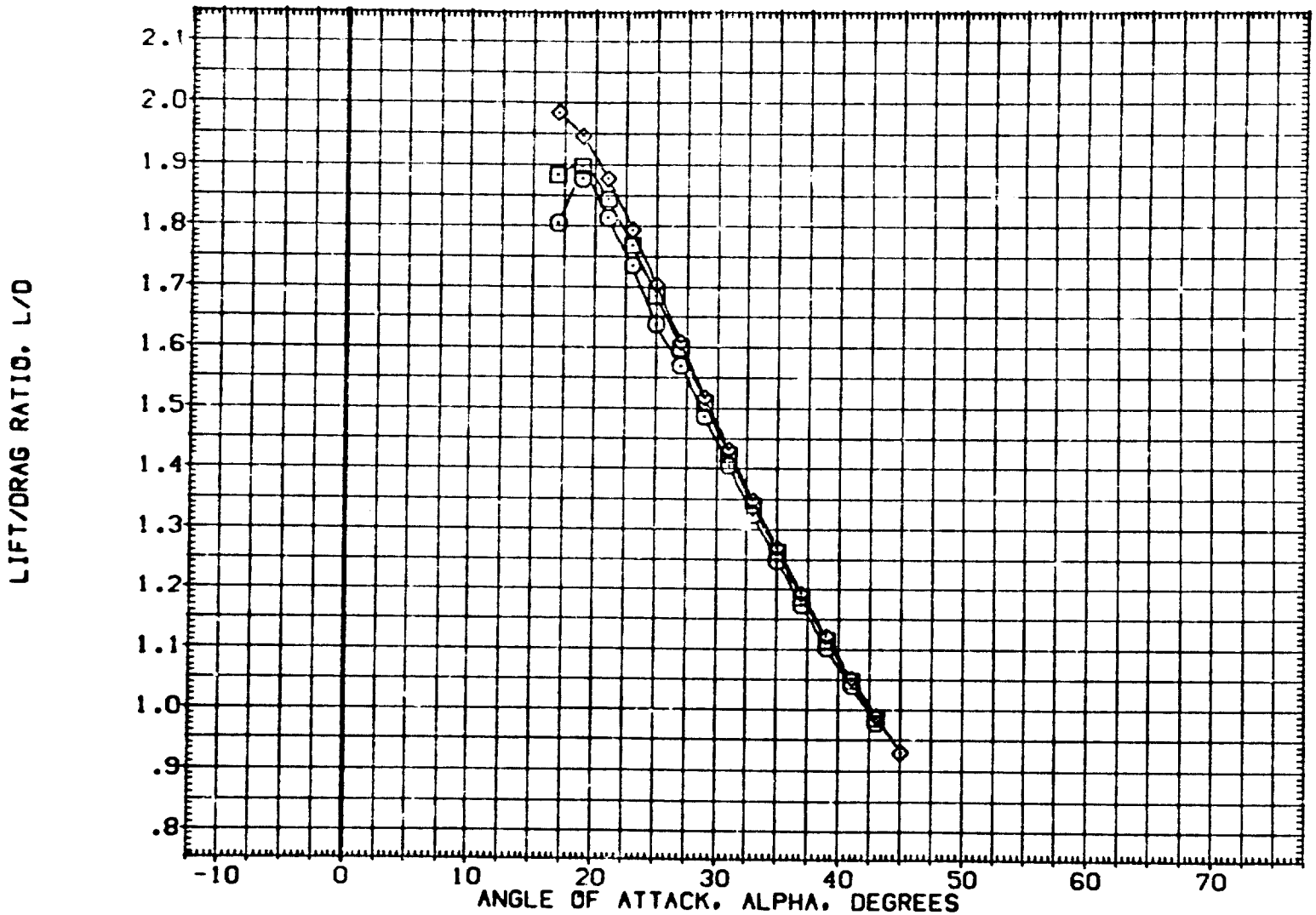


FIG. 23 REYNOLDS NUMBER EFFECTS (ELEVON = 0, BODY FLAP=-11.7)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B25 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	.000	10.000	10.000
1.860	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

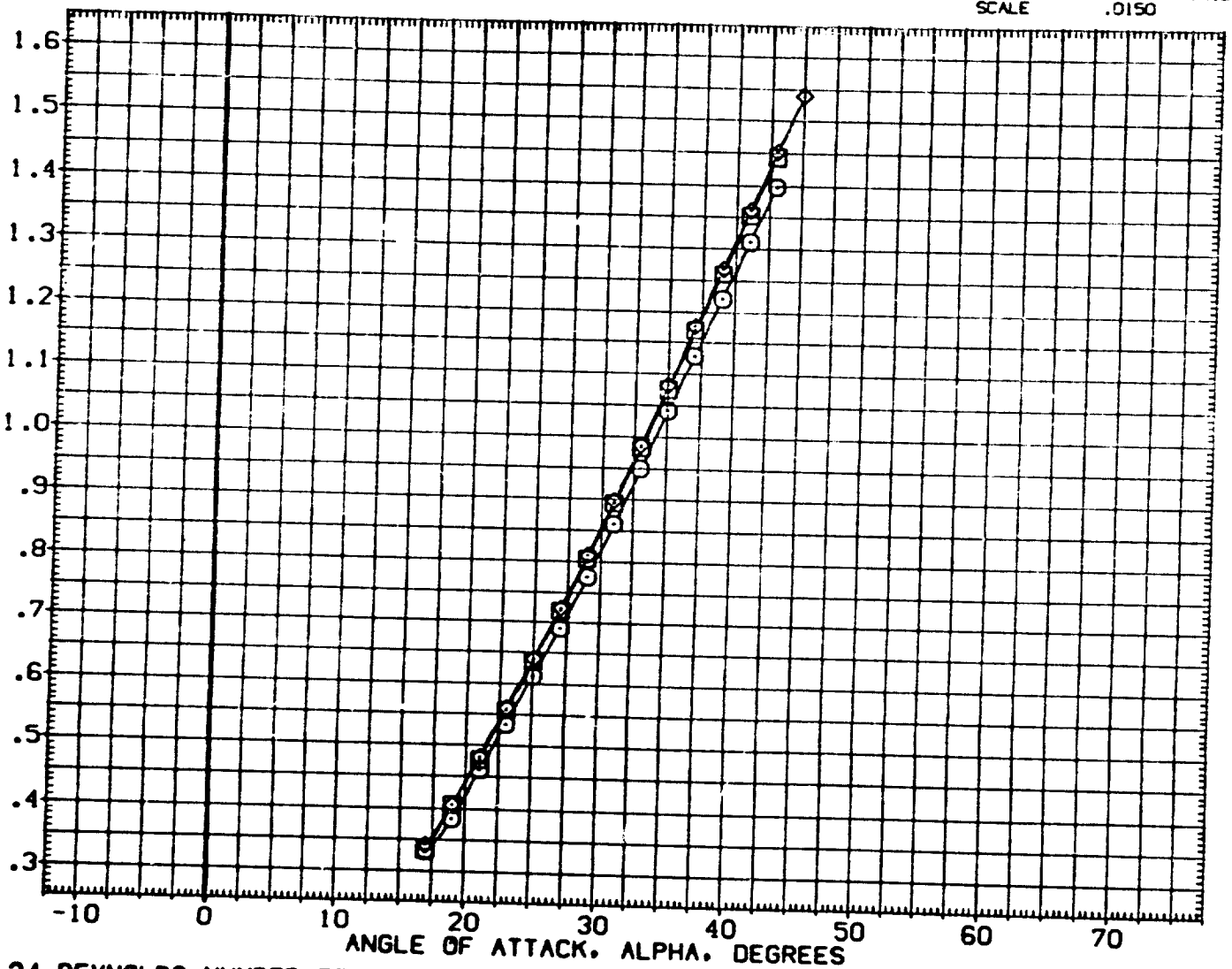


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV056)	○	OA79 B26 C9 E43 F8 M16 N20 R5 V8 V116	.500	.000	10.000	10.000
(CTV051)	□	OA79 B26 C9 E43 F8 M16 N20 R5 V8 V116	1.860	.000	10.000	10.000
(CTV017)	◇	OA79 B26 C9 E43 F8 M16 N20 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

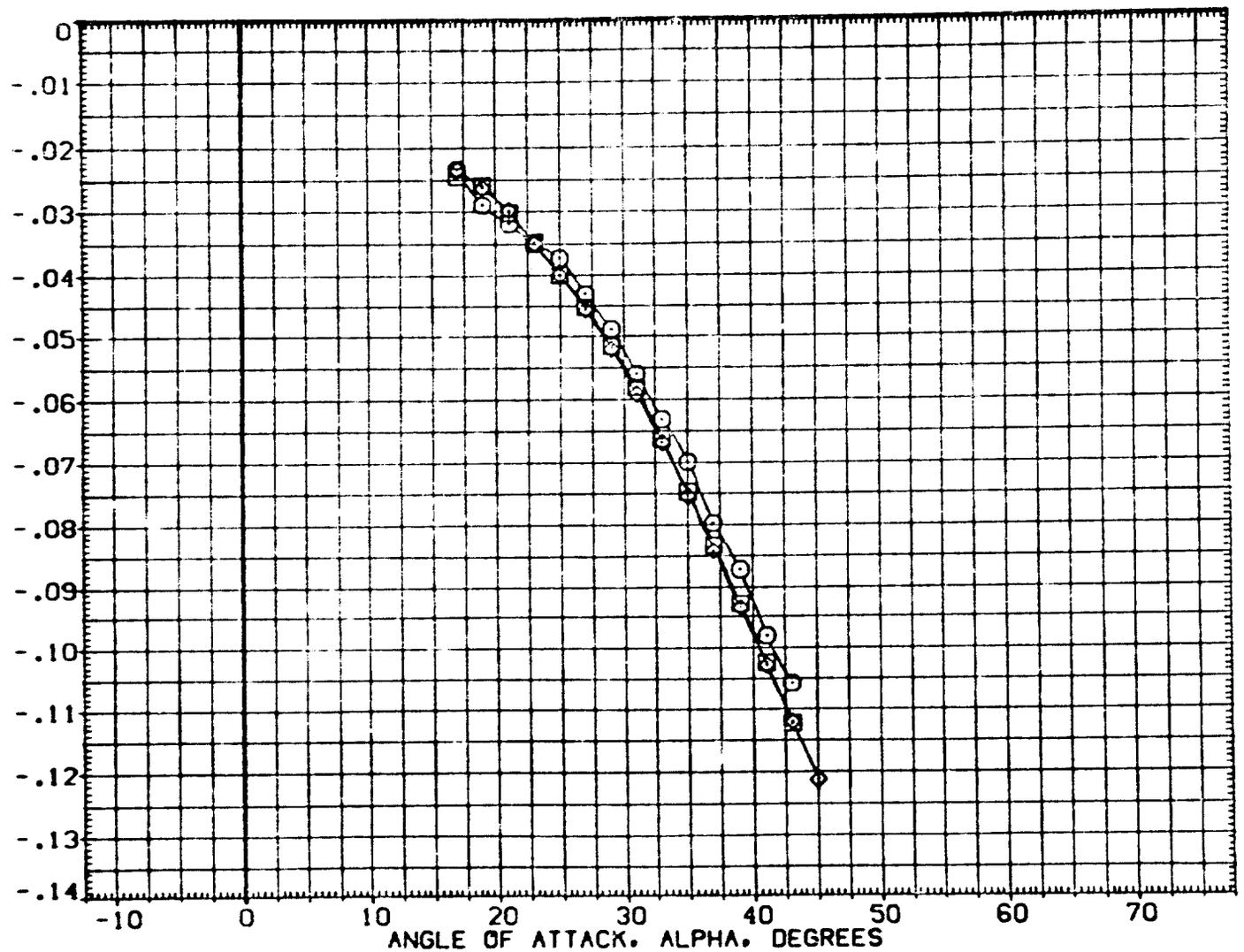


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	10.000	10.000
1.860	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

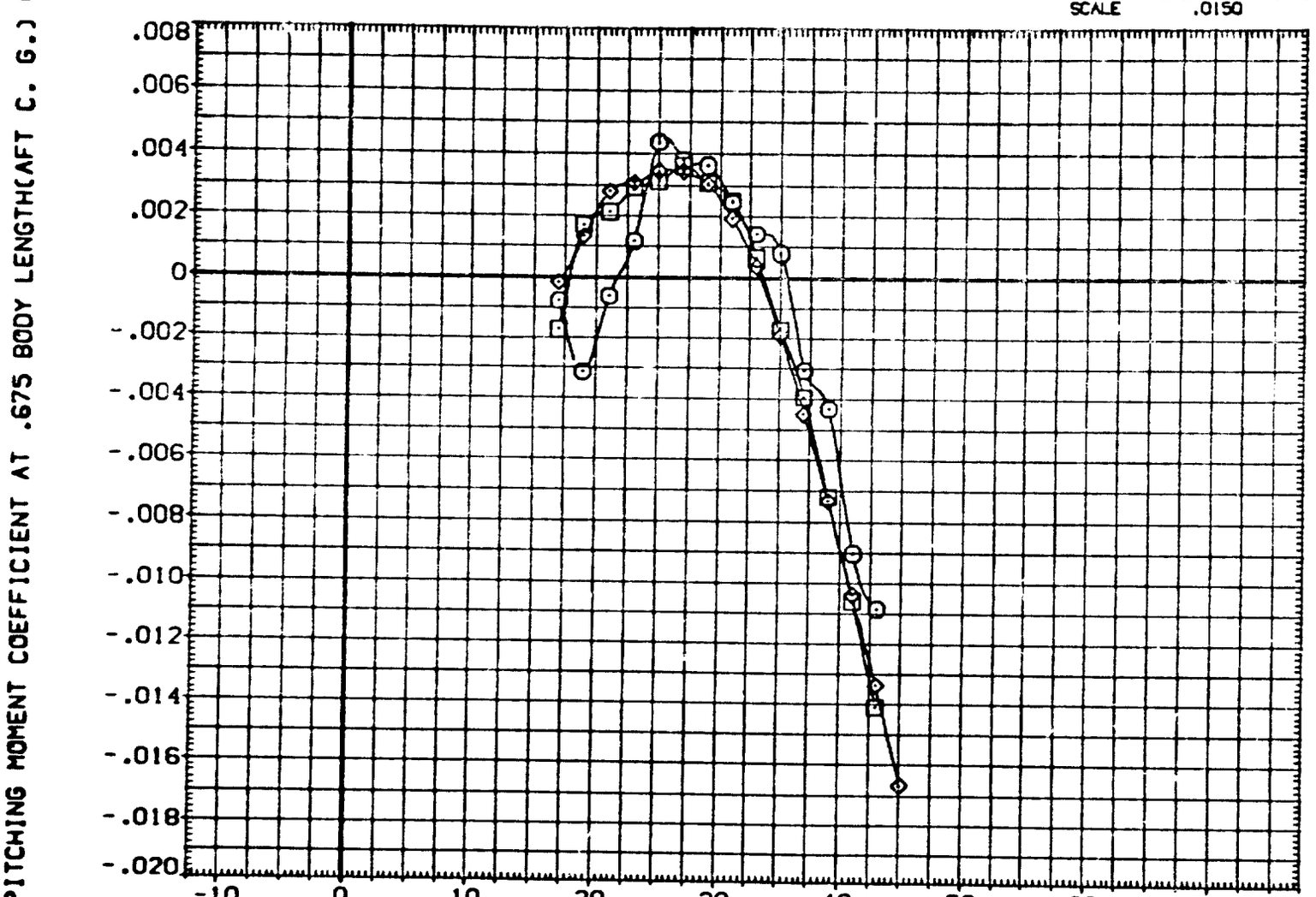


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV056)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	.500	.000	10.000	10.000
(CTV051)	⊡	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	1.860	.000	10.000	10.000
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

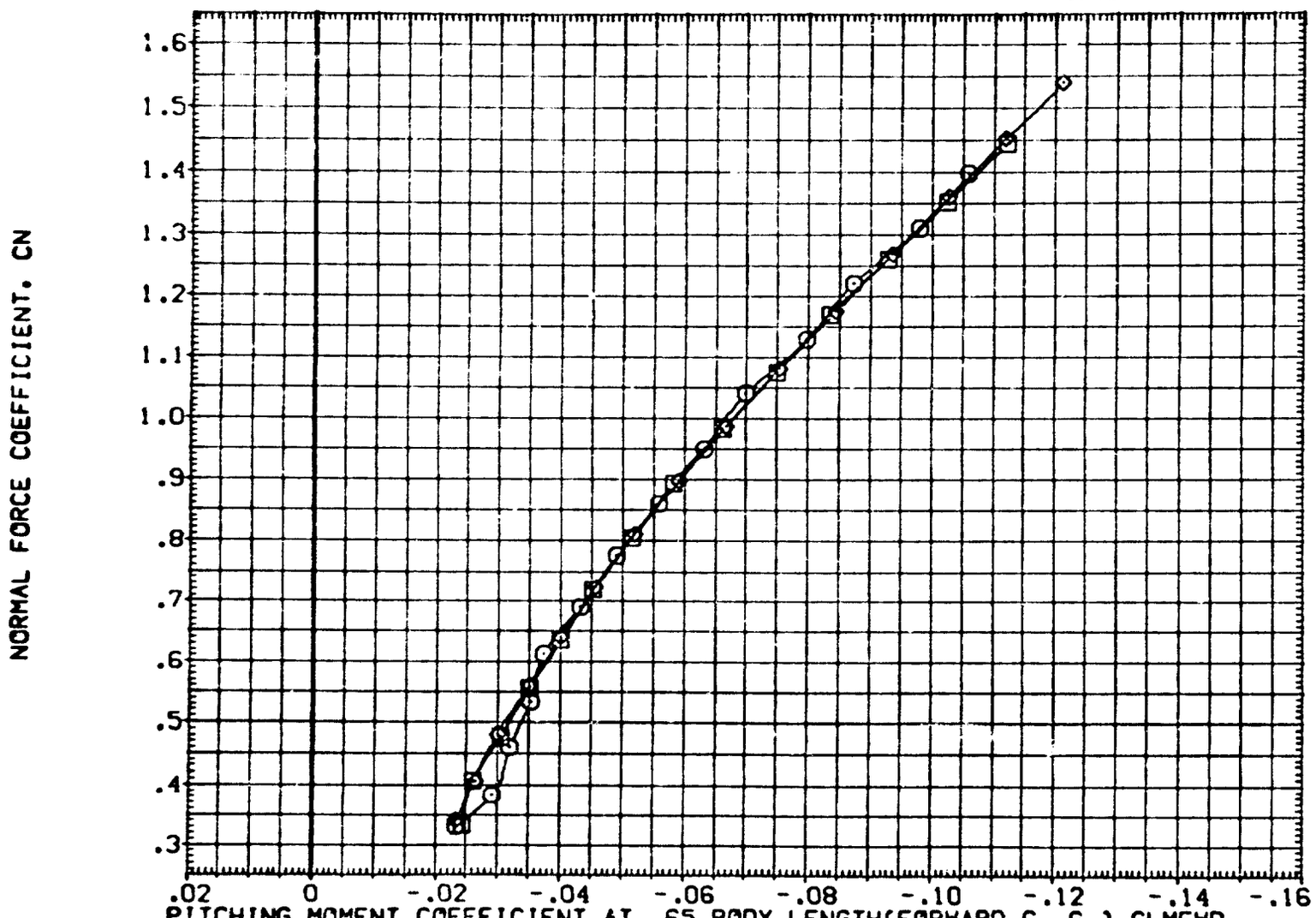


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-L0	ELV-L1
.500	.000	10.000	10.000
1.860	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

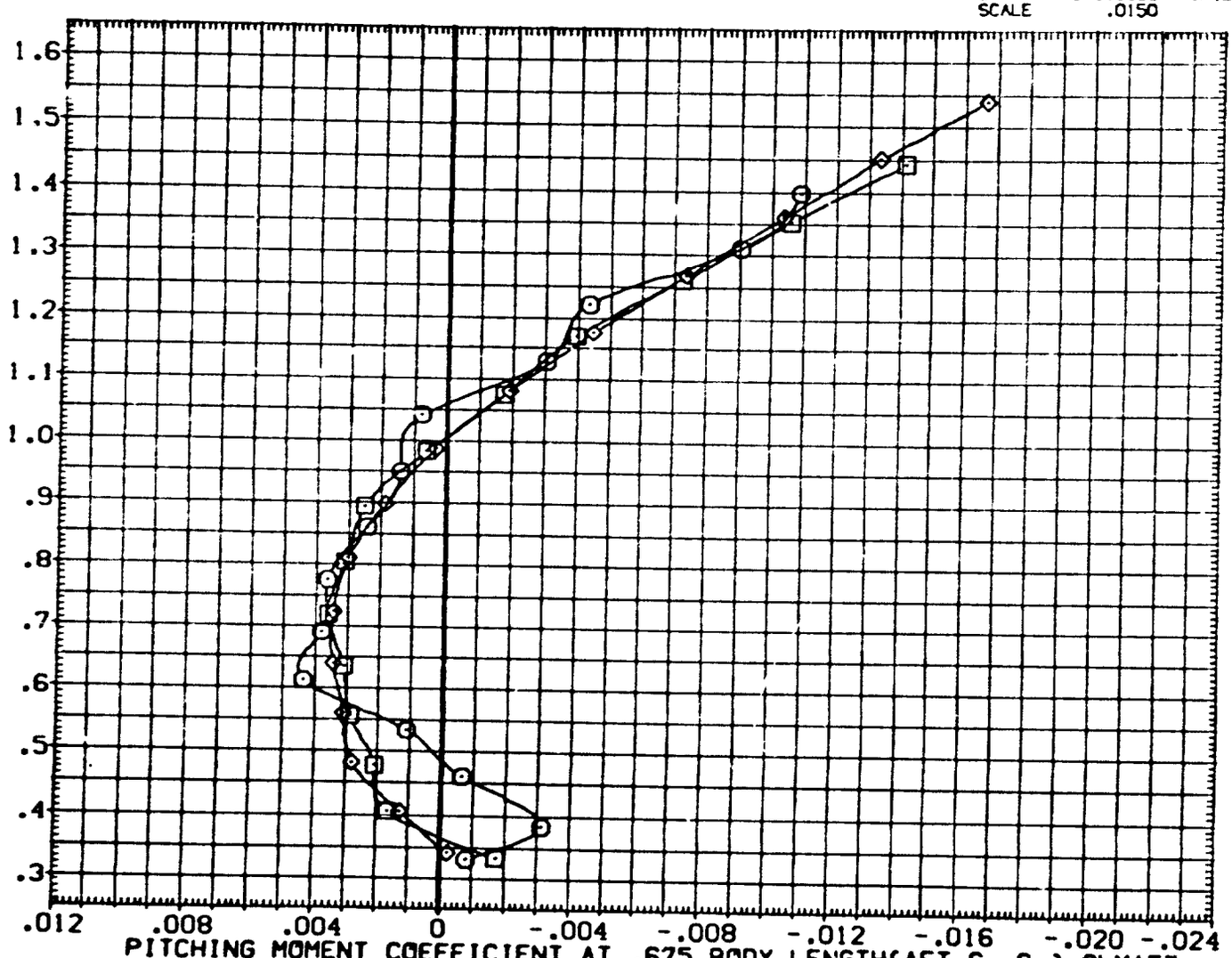


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	PNL	BDFLAP	ELV-LO	ELV-LI
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	10.000	10.000
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	10.000	10.000
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

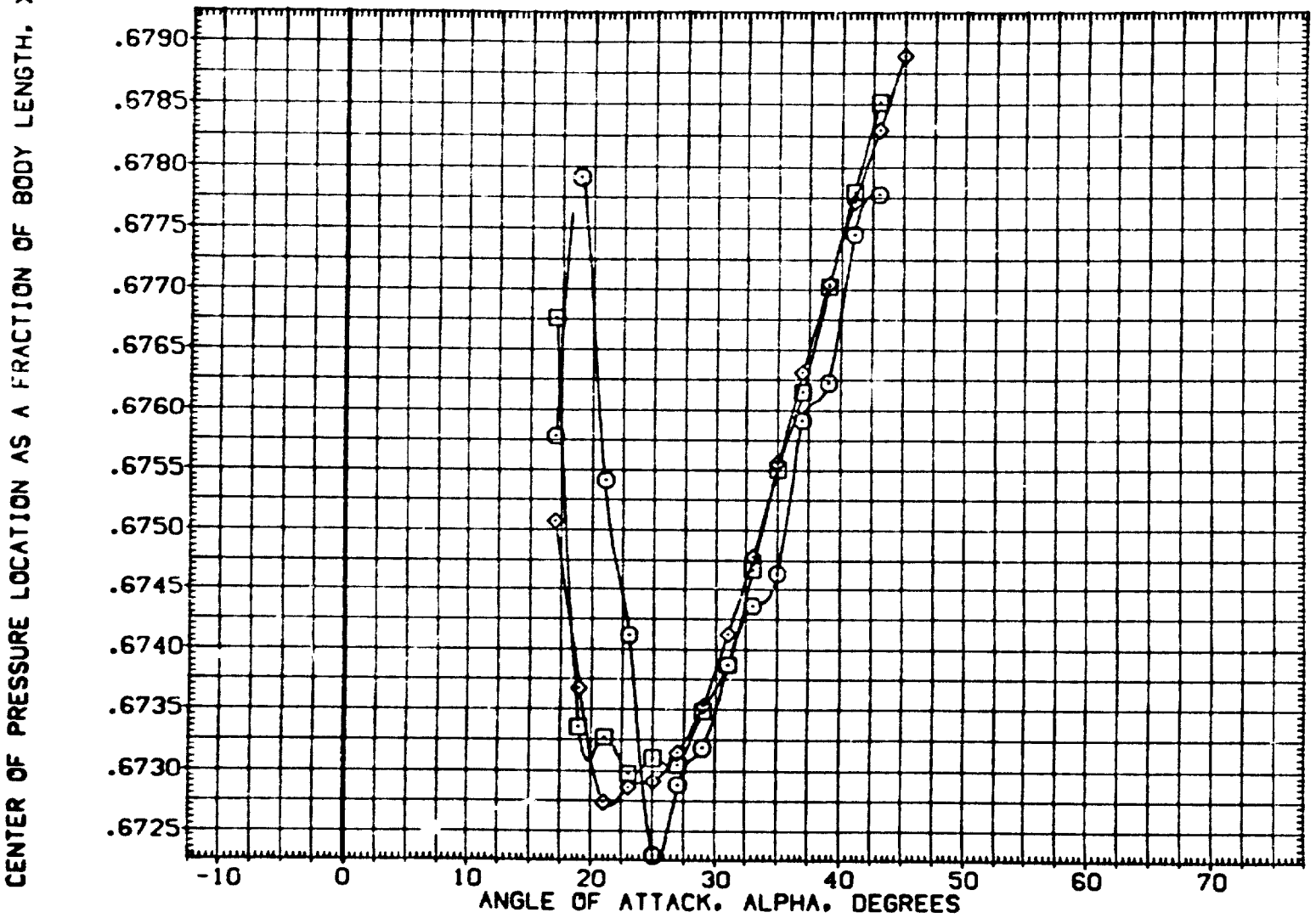


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RNVL	BOFLAP	ELV-LO	ELV-LI
.500	.000	10.000	10.000
1.860	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

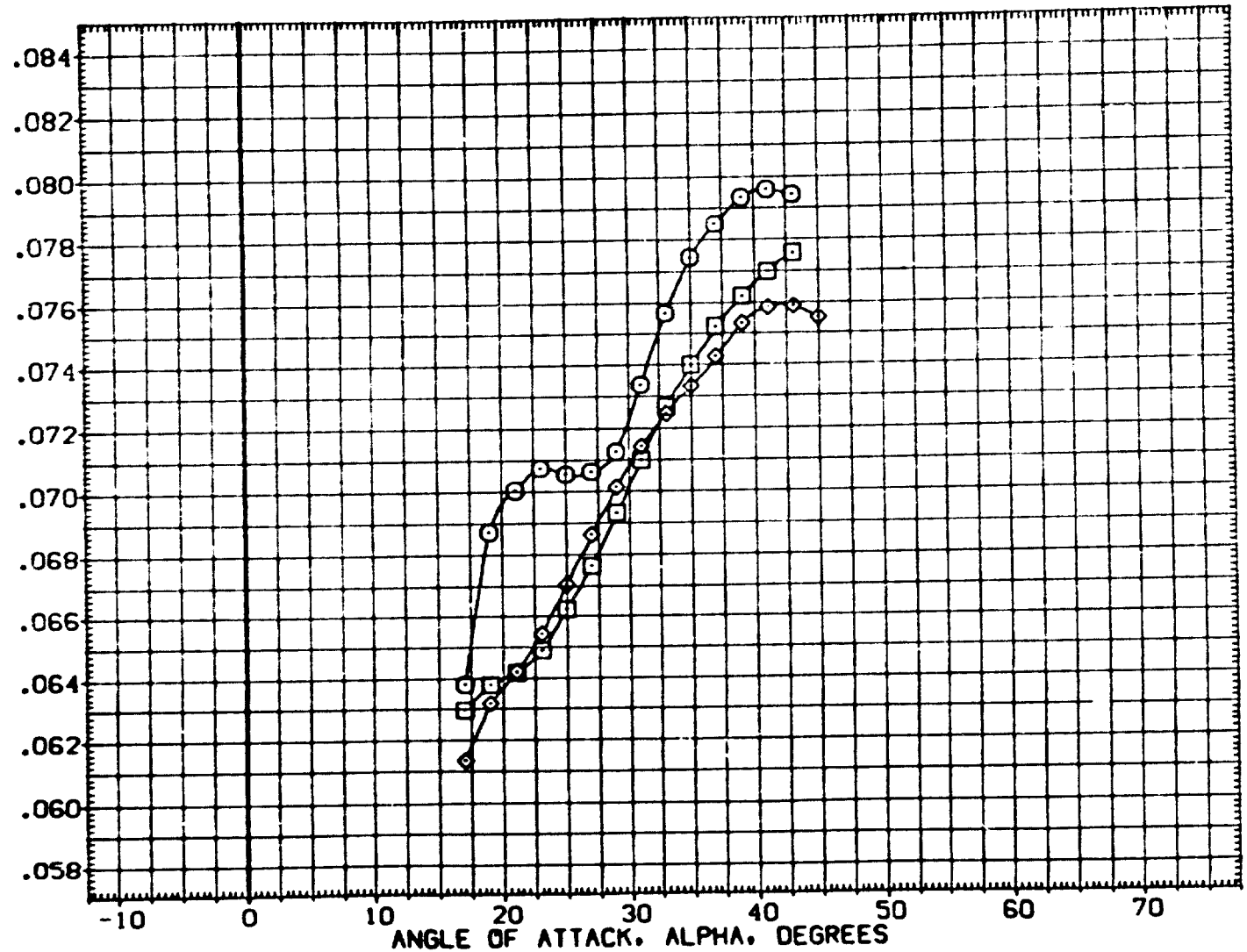


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	10.000	10.000
1.860	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

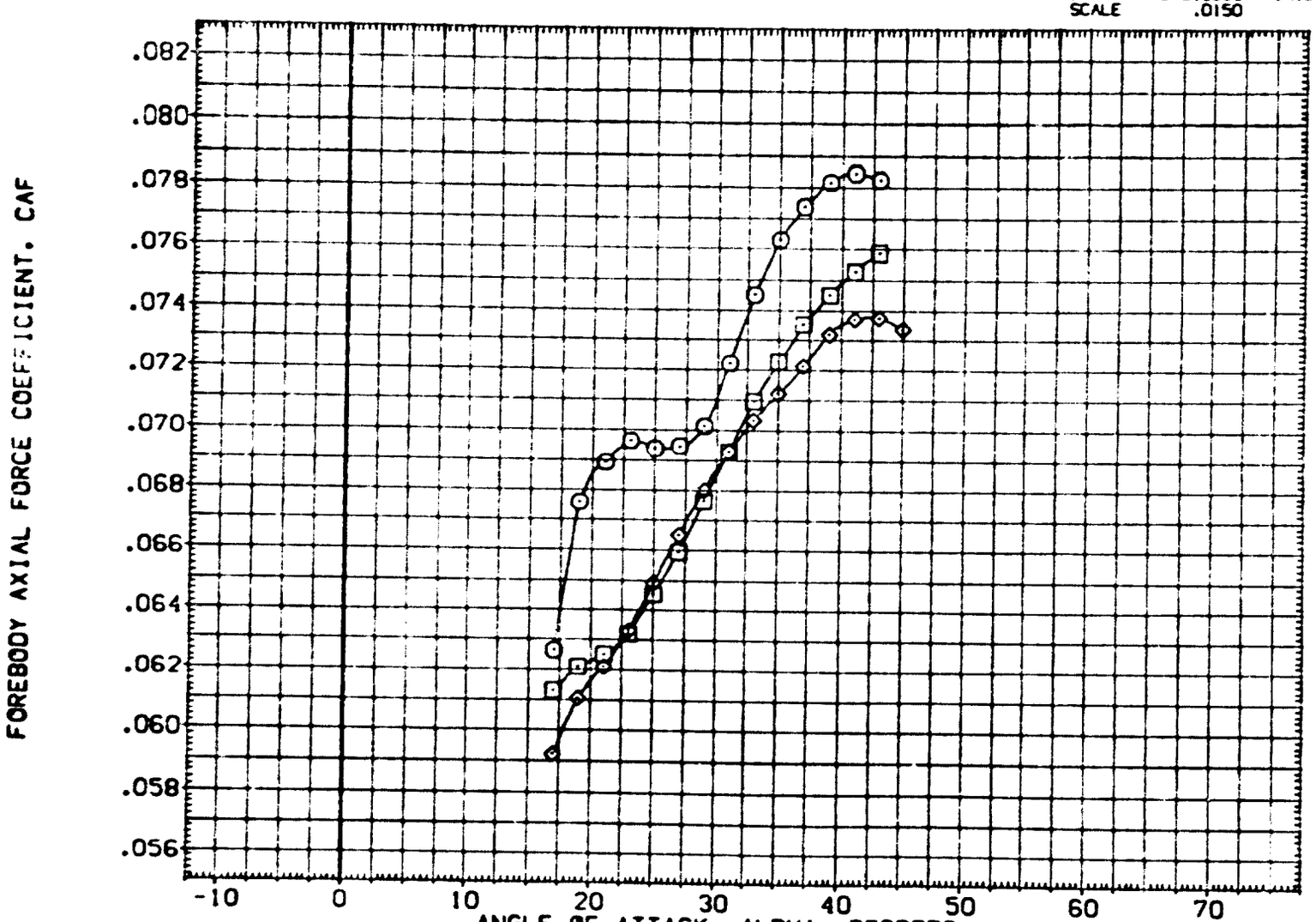


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	RNVL	BOFLAP	ELV-LO	ELV-LI	REFERENCE INFORMATION		
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	10.000	10.000	SREF	2690.0000	SQ.FT.
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.960	.000	10.000	10.000	LREF	474.8100	IN.
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	10.000	10.000	BREF	936.6800	IN.
							XMRP	1076.6800	IN.XG
							YMRP	.0000	IN.YG
							ZMRP	375.0000	IN.ZG
							SCALE	.0150	

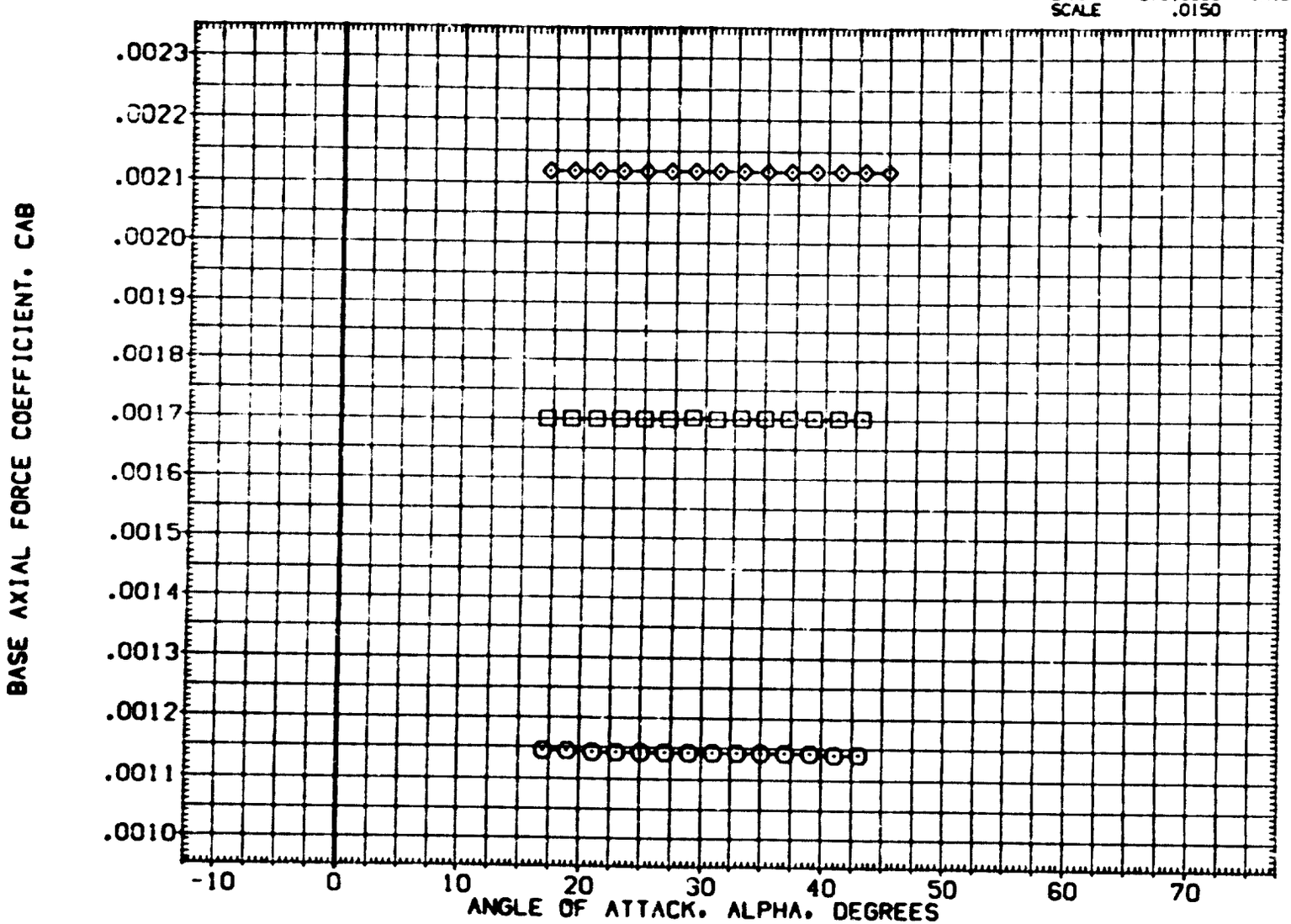


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10. BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	▯	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	10.000	10.000
1.060	.000	10.000	10.000
3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

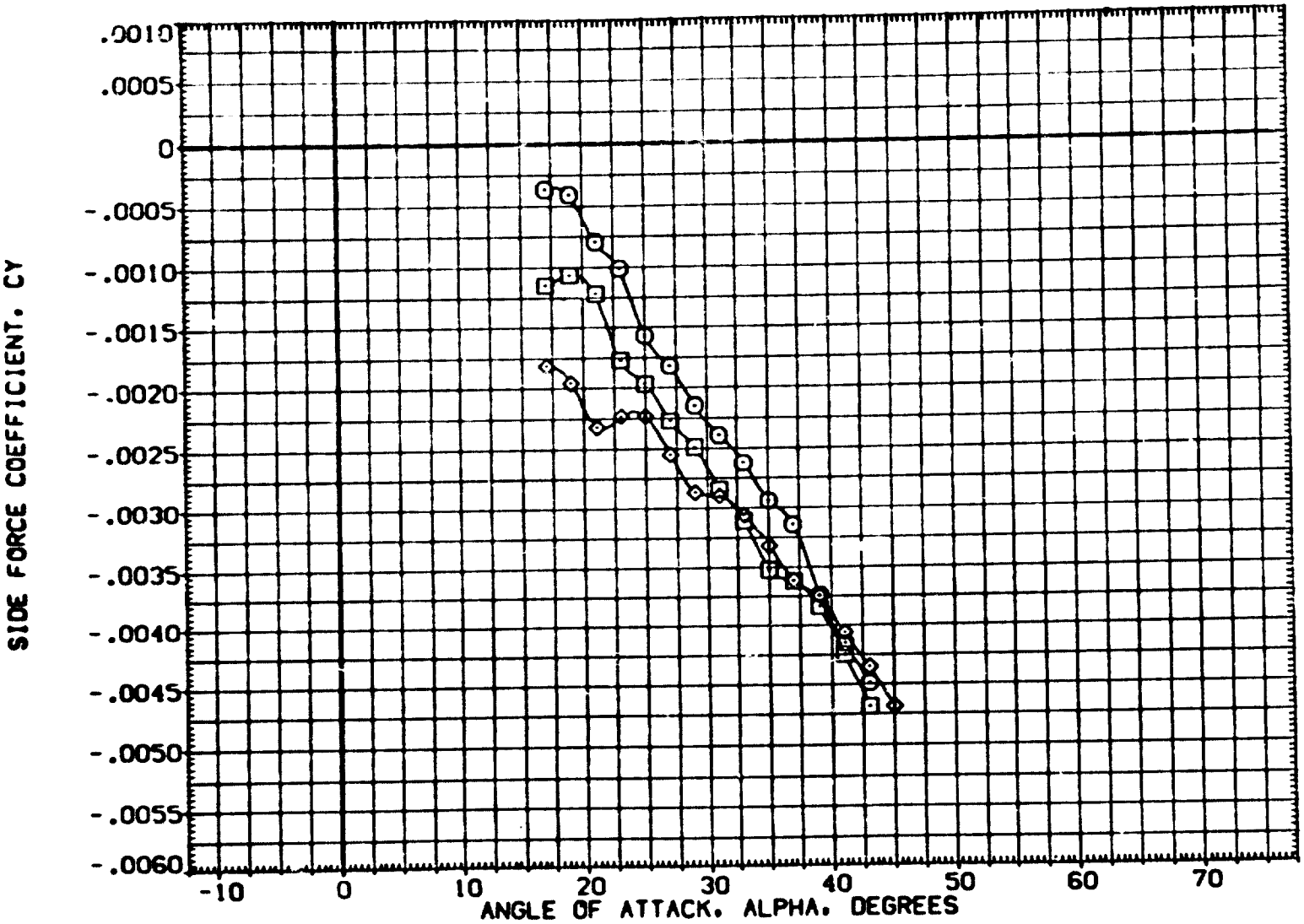


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATW056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	10.000	10.000
(ATW051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	10.000	10.000
(ATW017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-L0	ELV-L1
(ATW056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	10.000	10.000
(ATW051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.850	.000	10.000	10.000
(ATW017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X9
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

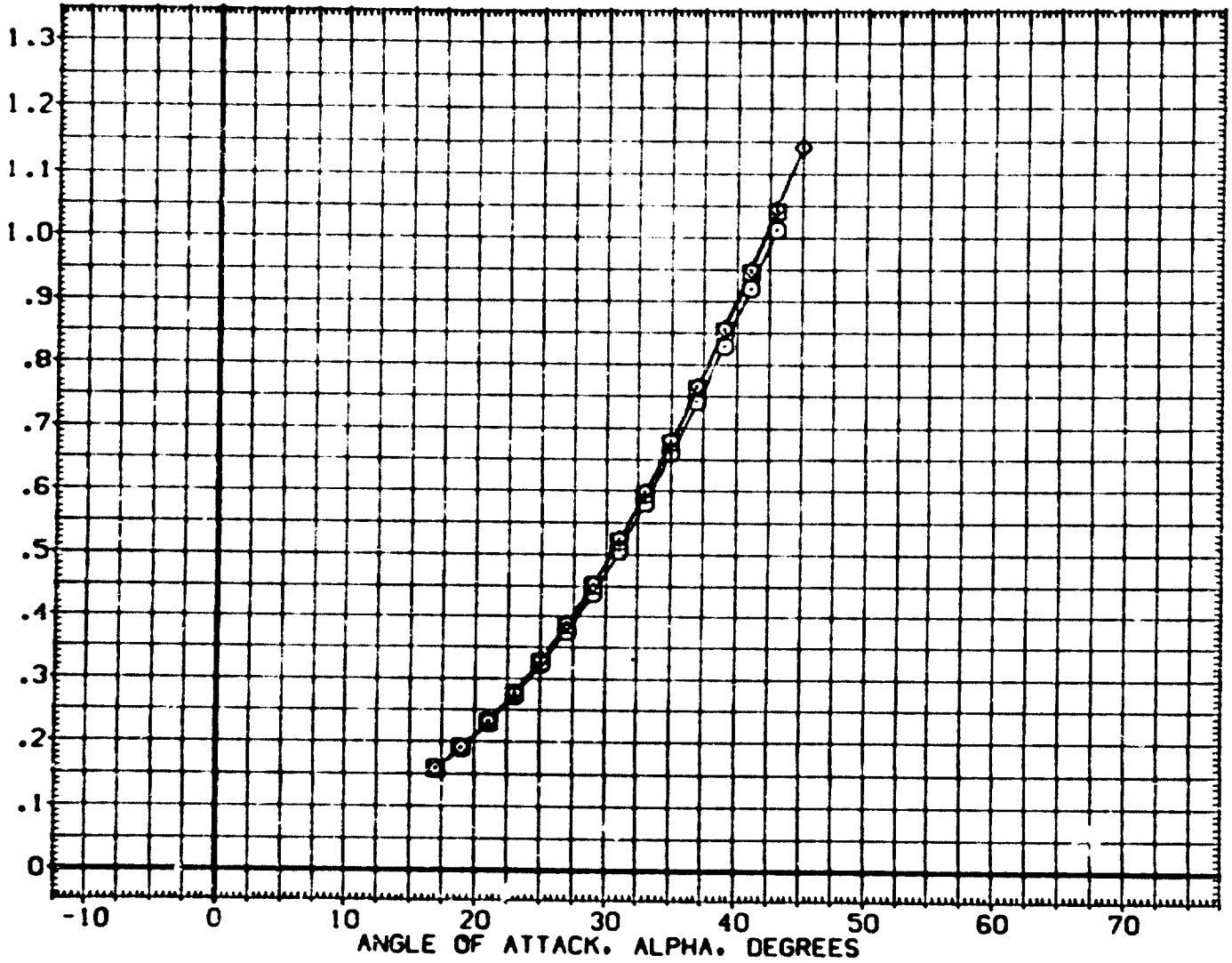


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	10.000	10.000
(ATV051)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	10.000	10.000
(ATV017)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

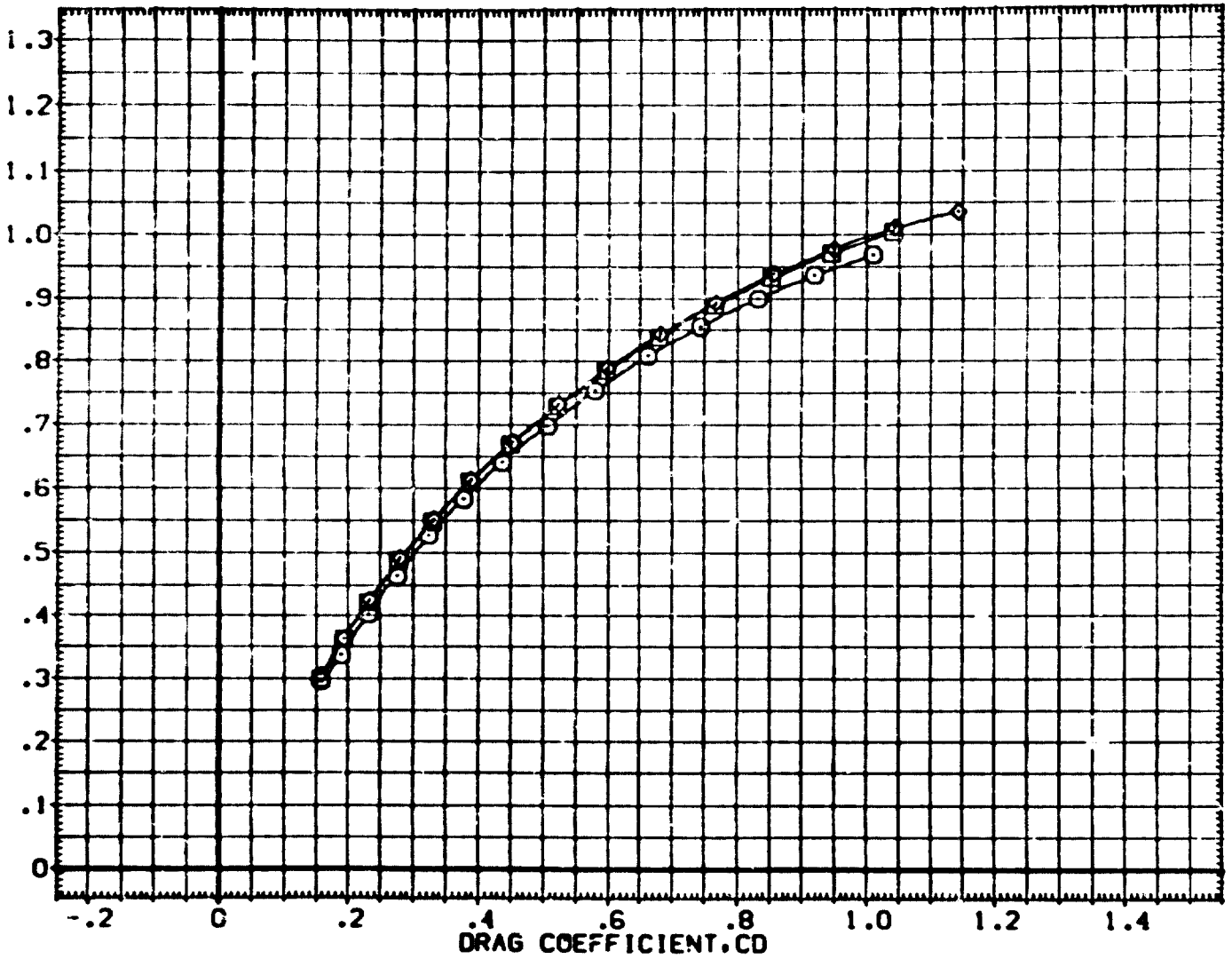


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.SO

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BOFLAP	ELV-LO	ELV-LI
(ATV056)	○	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	.500	.000	10.000	10.000
(ATV051)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	1.860	.000	10.000	10.000
(ATV017)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 V116	3.530	.000	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

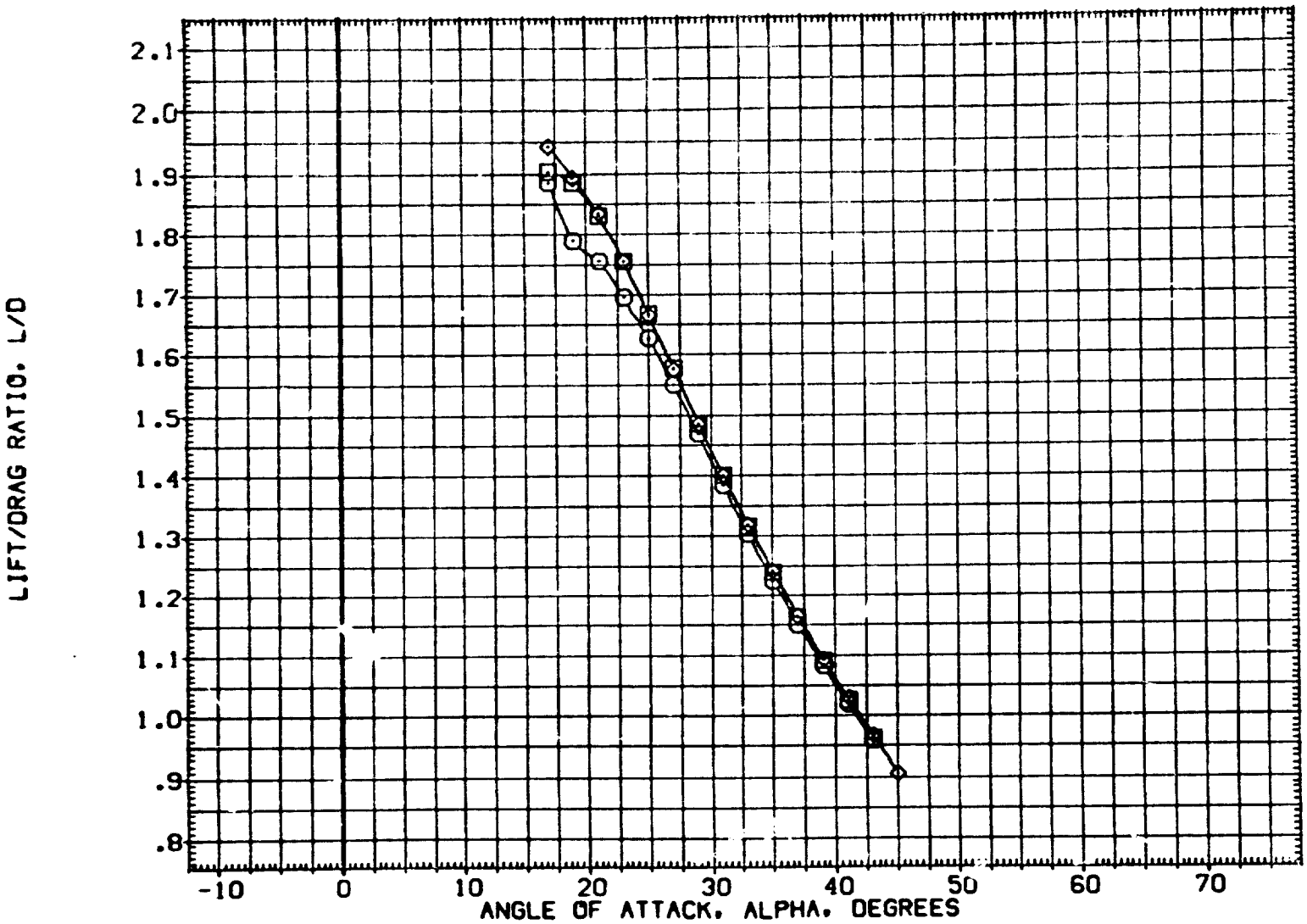


FIG. 24 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV061)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	20.000	20.000
(CTV052)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.060	.000	20.000	20.000
(CTV020)	◇	OA79 B2[illegible] C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	966.0000	IN.
XMRP	1076.6600	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

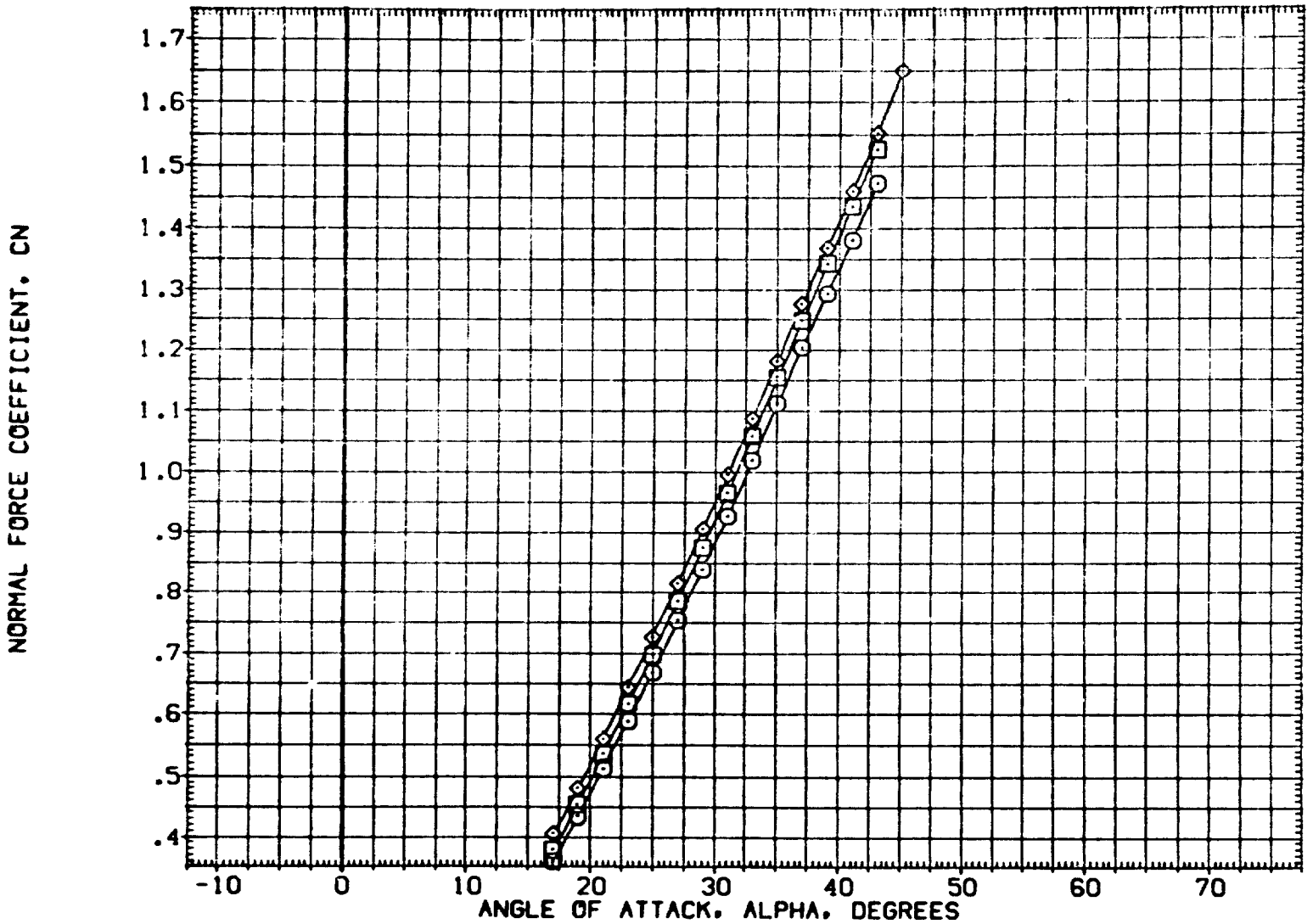


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV061)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV052)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

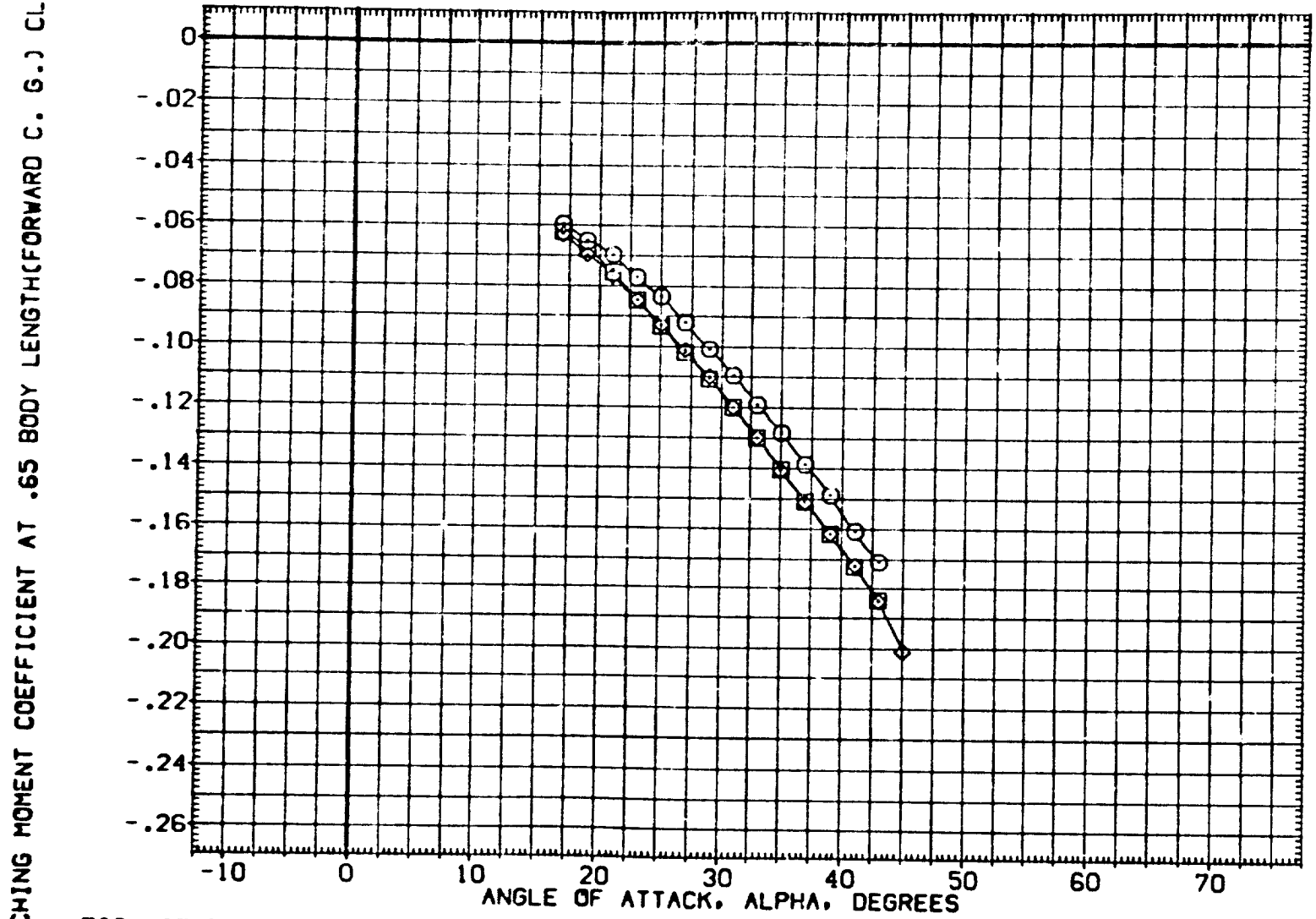


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(CTV061)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	.000	20.000	20.000
(CTV052)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.260	.000	20.000	20.000
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

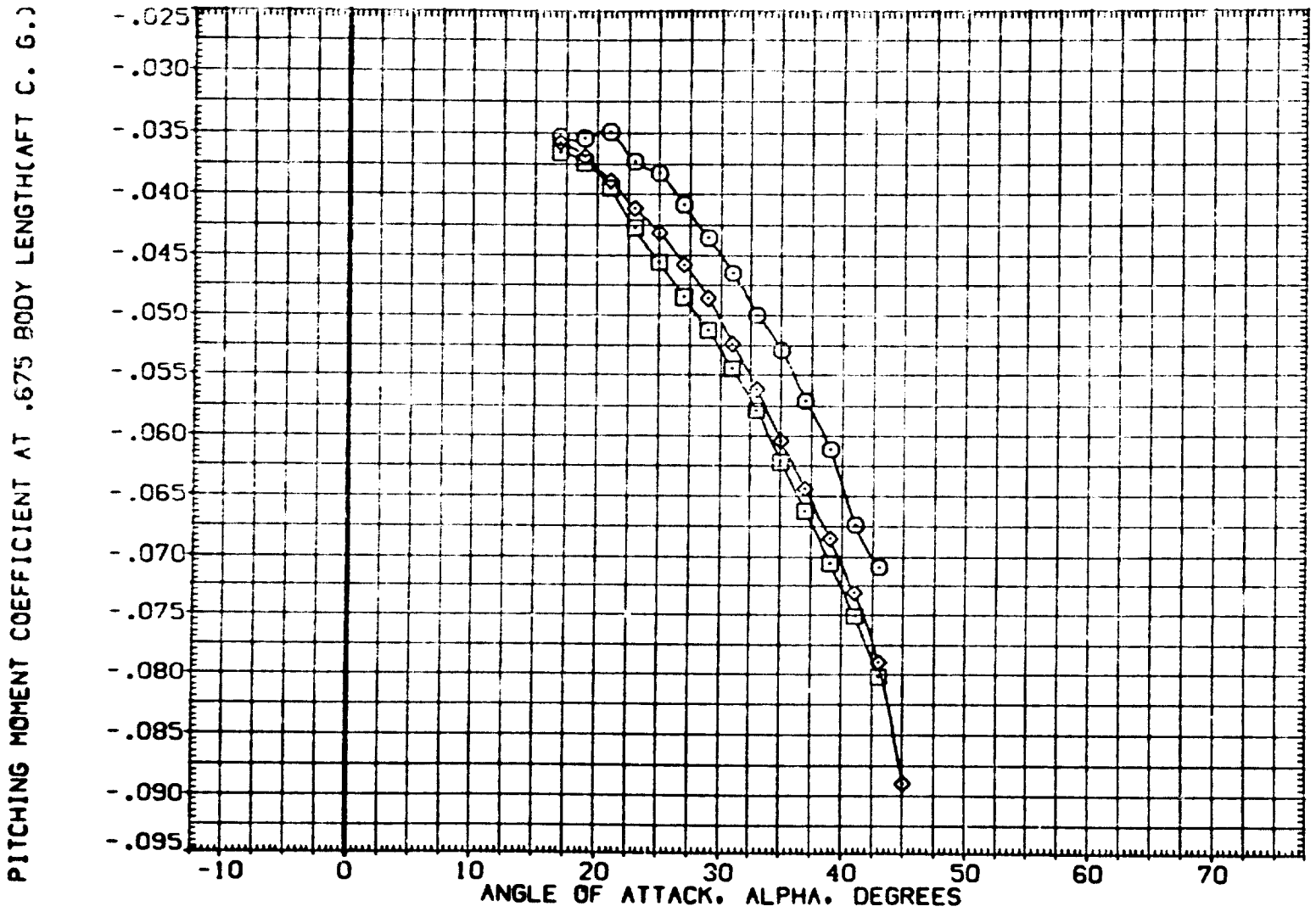


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTW061)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16	.500	.000	20.000	20.000
(CTW052)	□	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16	1.860	.000	20.000	20.000
(CTW020)	◇	0A79 B26 C9 E43 F8 M16 N20 R5 V8 W16	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6600	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

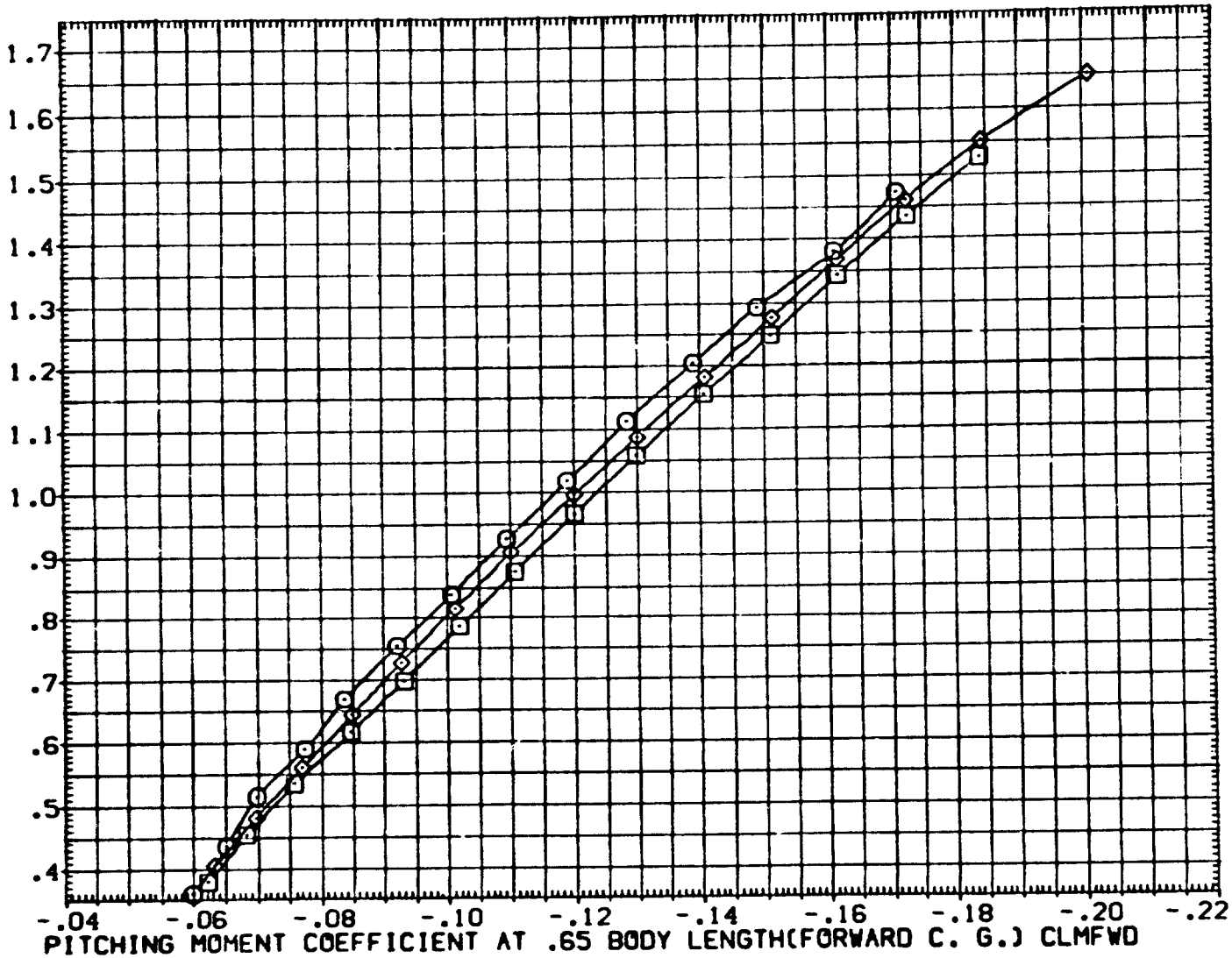


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV061)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV052)	△	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

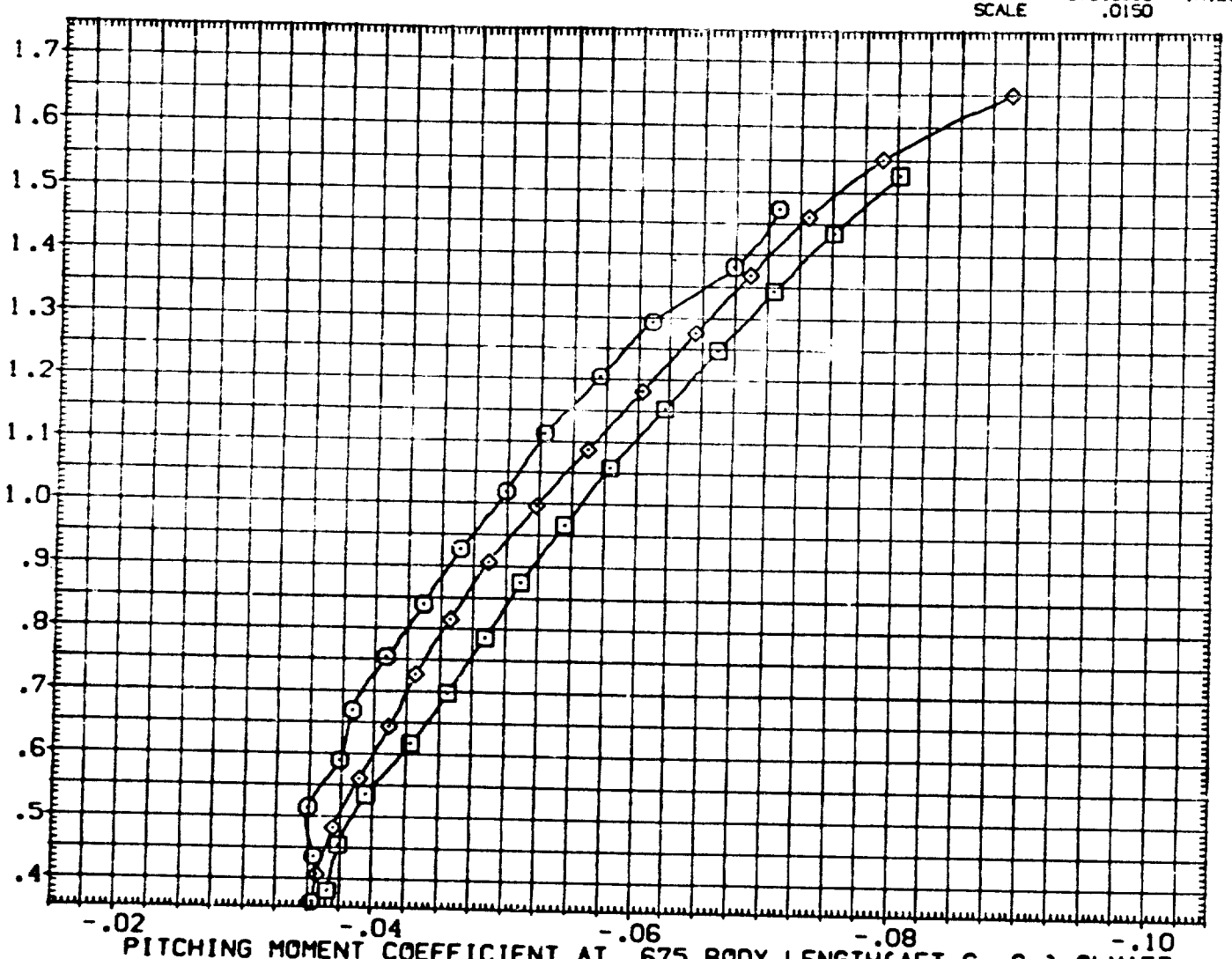


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV061)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	20.000	20.000
(CTV052)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	20.000	20.000
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

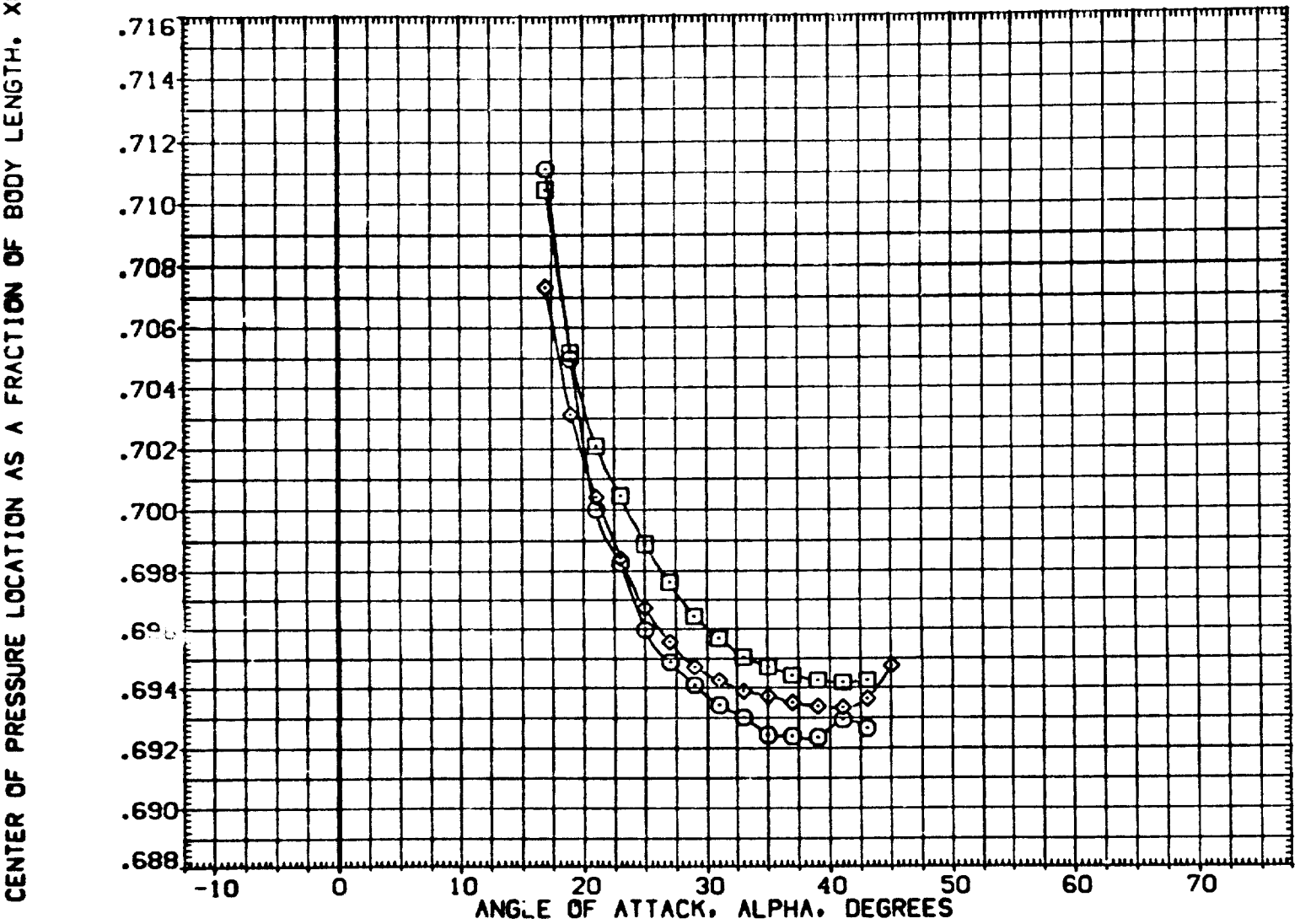


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(CTV061)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	.000	20.000	20.000
(CTV052)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	.000	20.000	20.000
(CTV020)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

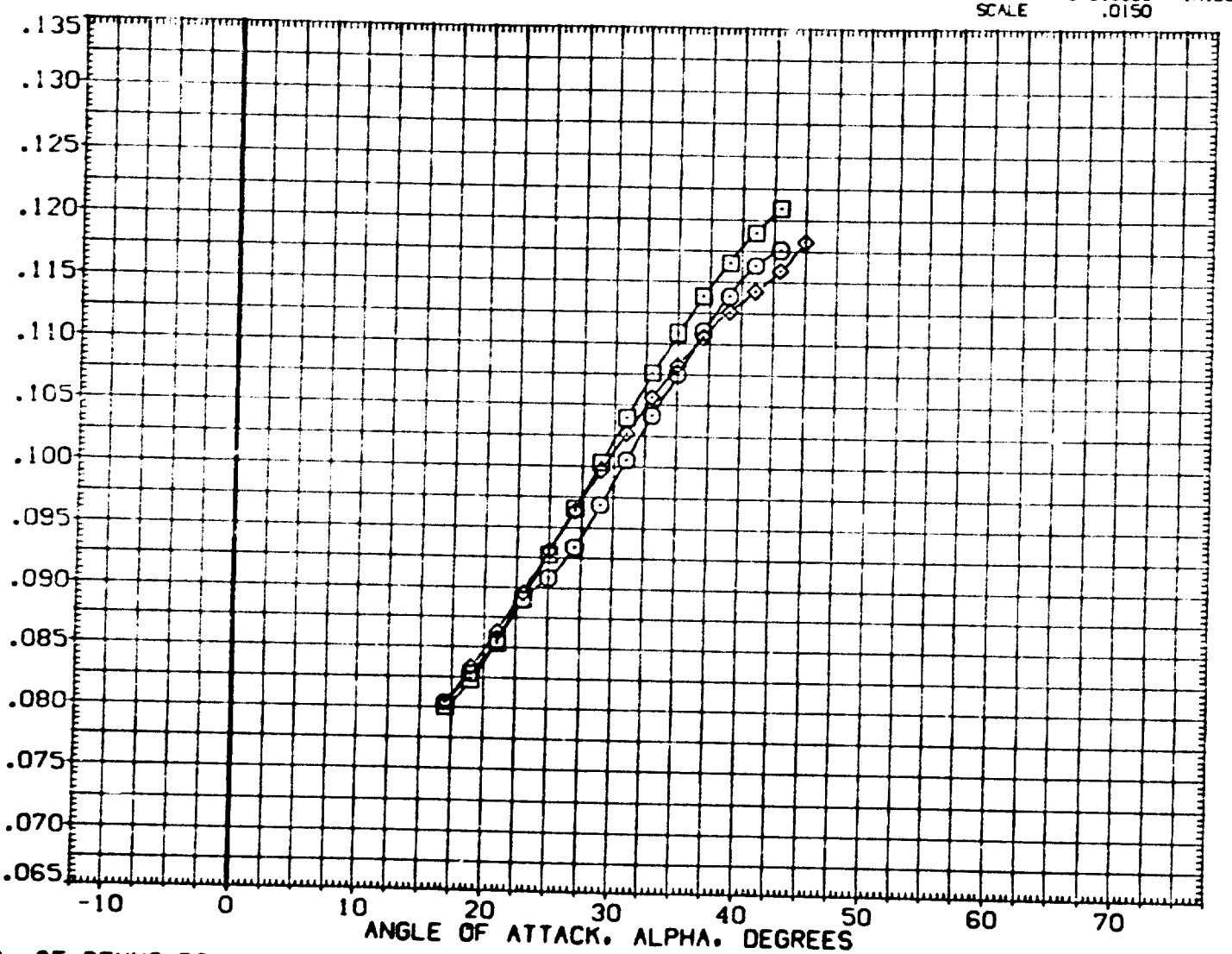


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV061)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV052)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X8
YMRP	.0000	IN.Y8
ZMRP	375.0000	IN.Z8
SCALE	.0150	

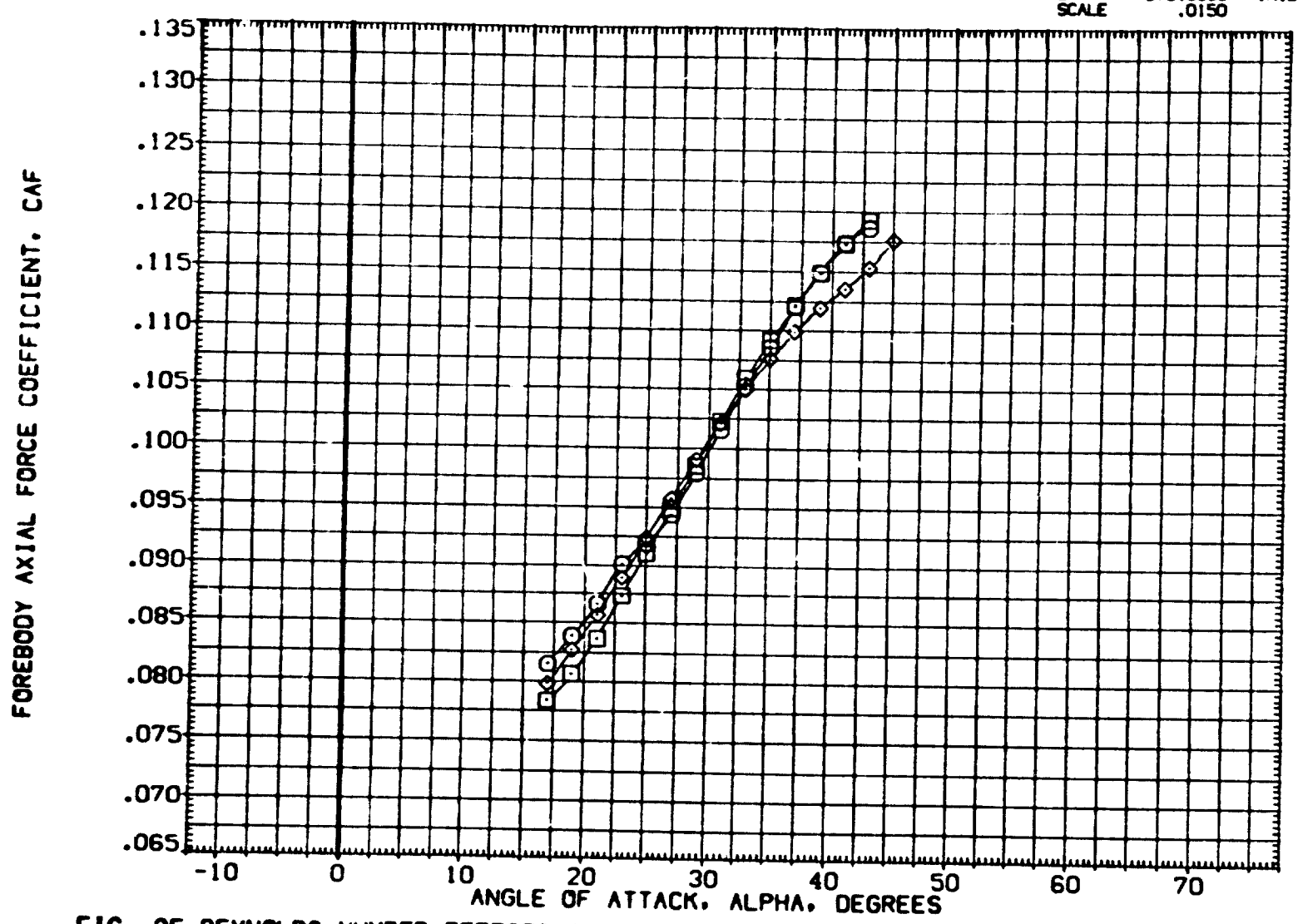


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV061)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV052)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

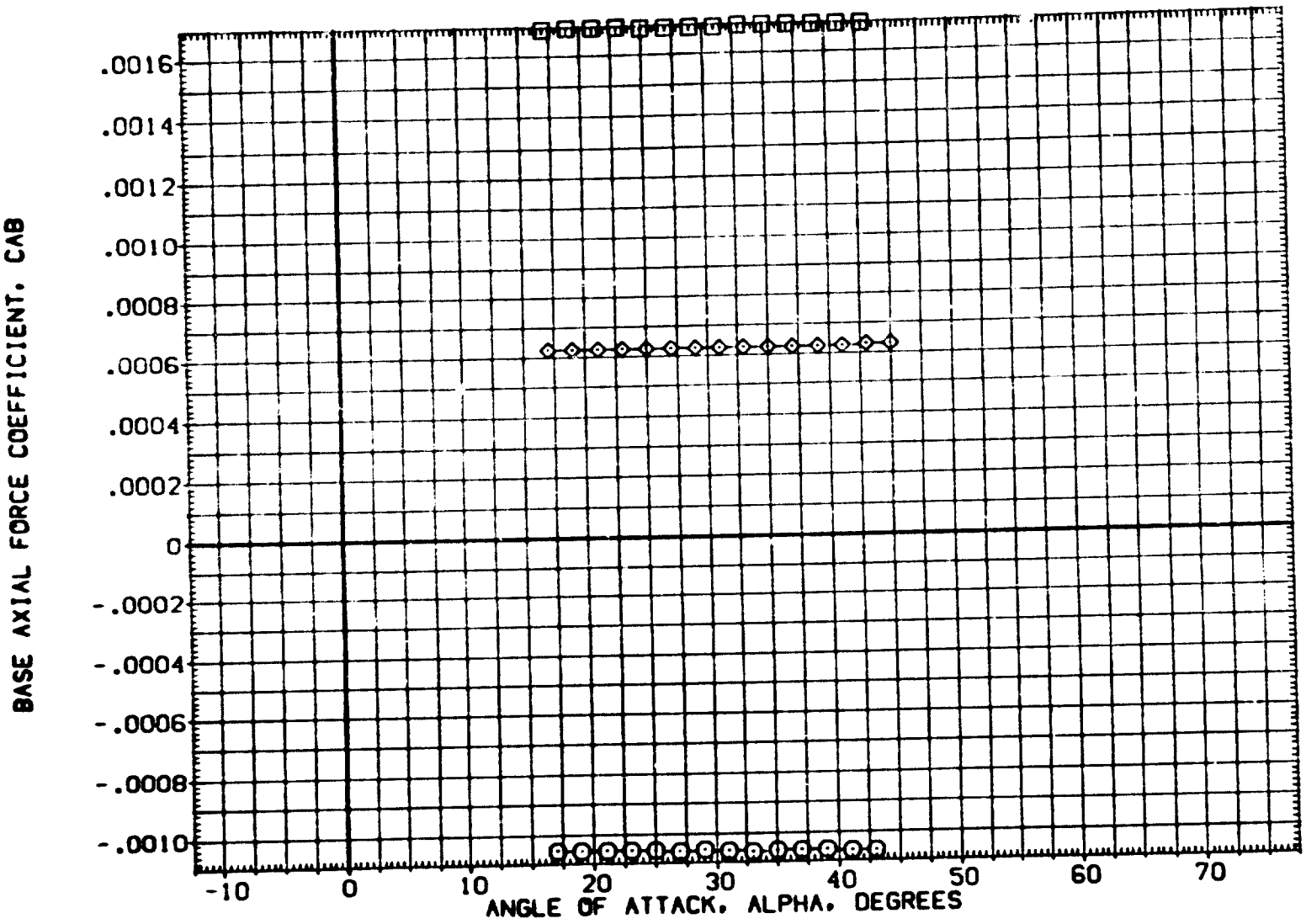


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV061)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV052)	⬭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV020)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

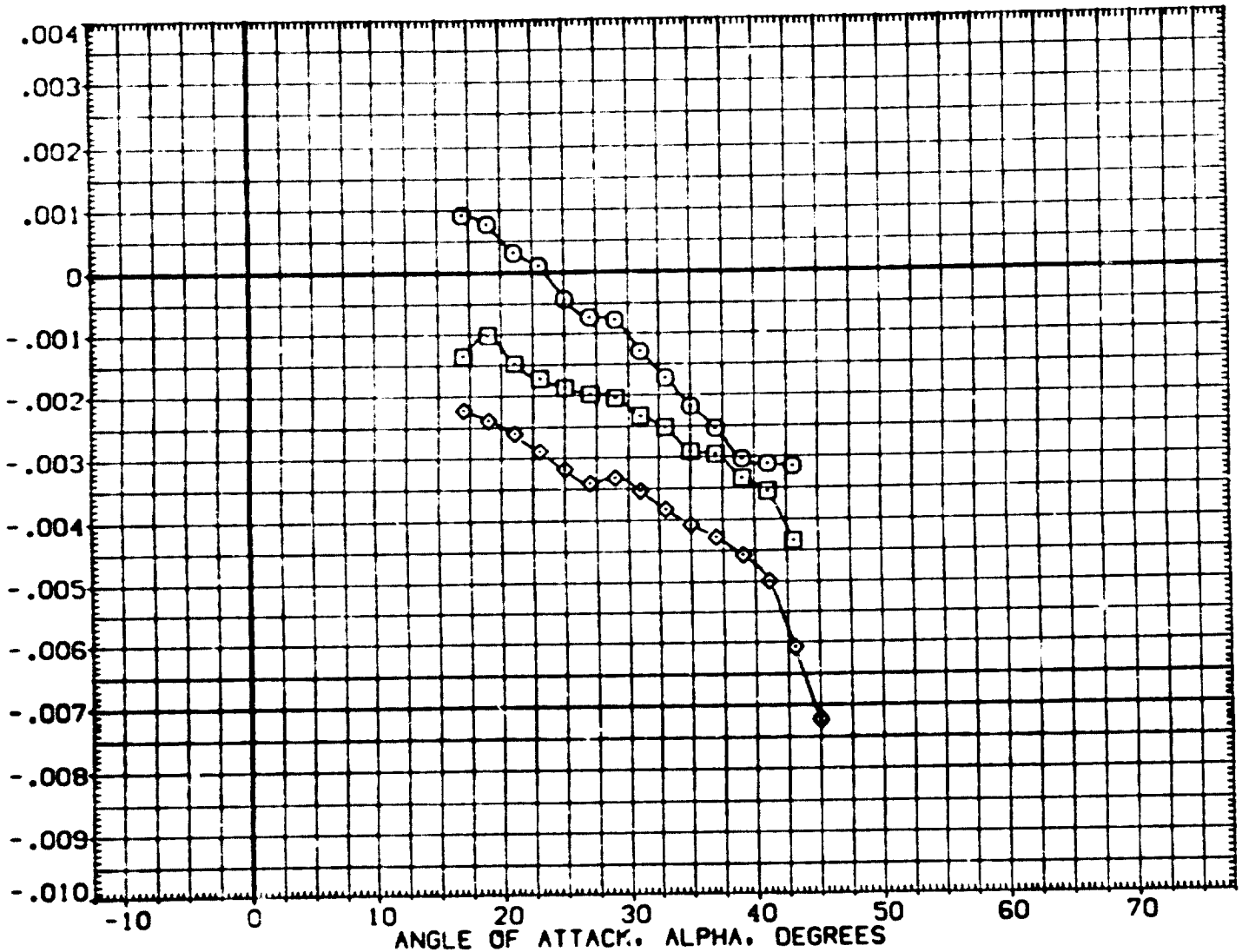


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(ATV061)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.500	.000	20.000	20.000
(ATV062)	○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.860	.000	20.000	20.000
(ATV020)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

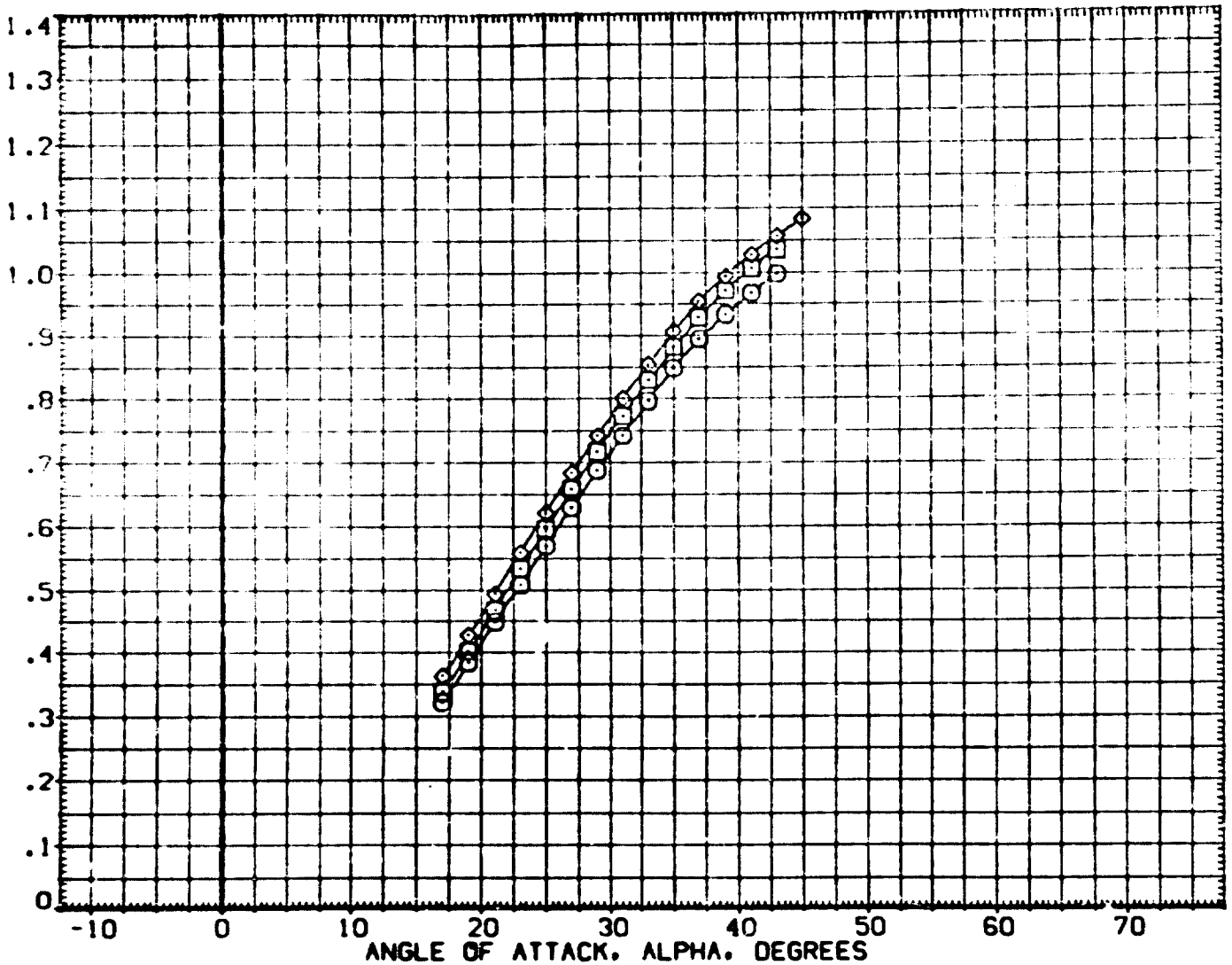


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(ATV061)	□	0A79 B26 C9 E43 F8 M16 NC8 R5 V8 W116	.500	.000	20.000	20.000
(ATV052)	◇	0A79 B26 C9 E43 F8 M16 NC8 R5 V8 W116	1.860	.000	20.000	20.000
(ATV020)	○	0A79 B26 C9 E43 F8 M16 NC8 R5 V8 W116	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6900	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

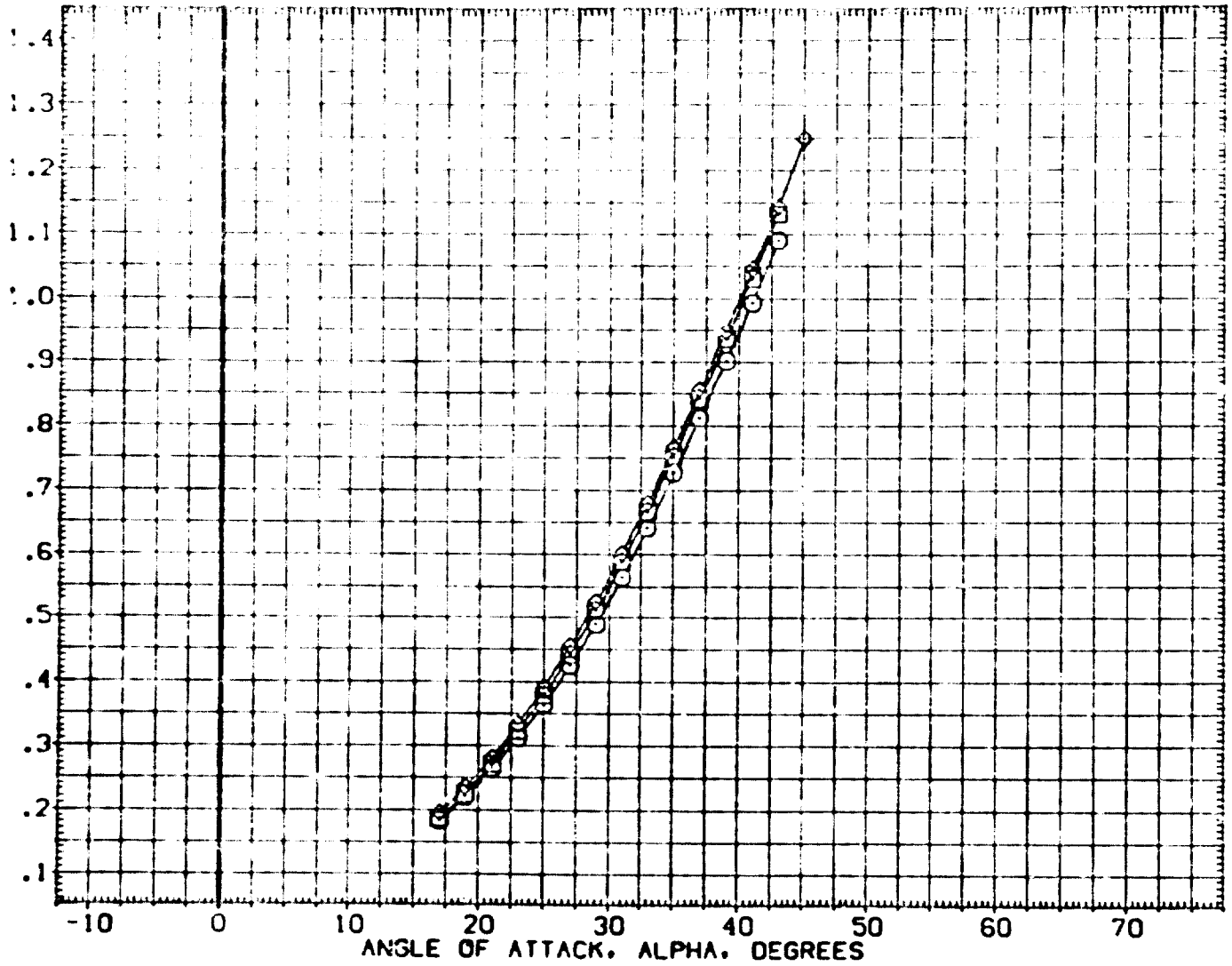


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV061)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATV052)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(ATVC20)		BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RNVL	BDFLAP	ELV-LO	ELV-LI
.500	.000	20.000	20.000
1.860	.000	20.000	20.000
3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.9800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

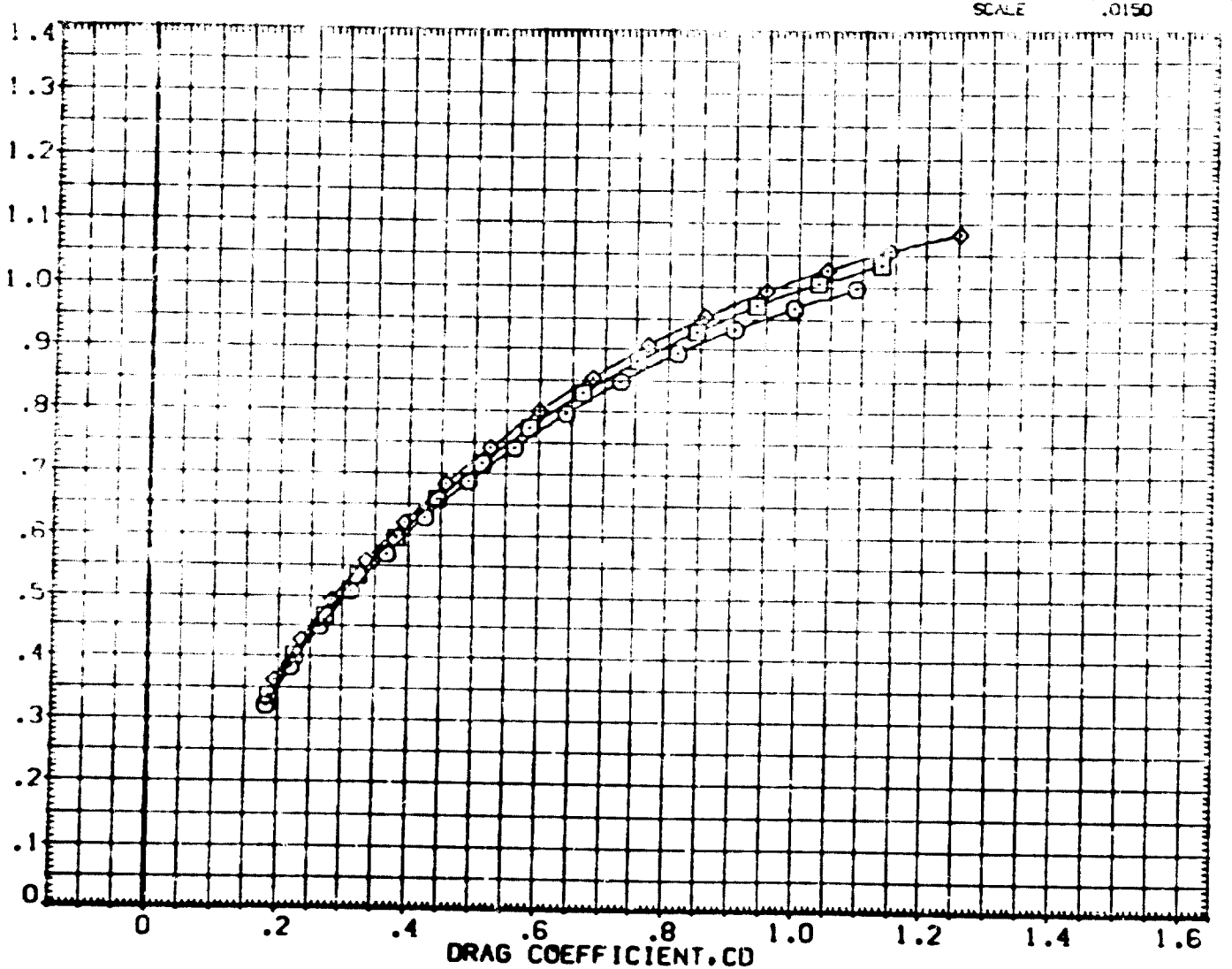


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATV061)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	20.000	20.000
(ATV052)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	20.000	20.000
(ATV020)	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6600	IN.
XMRP	1076.8800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

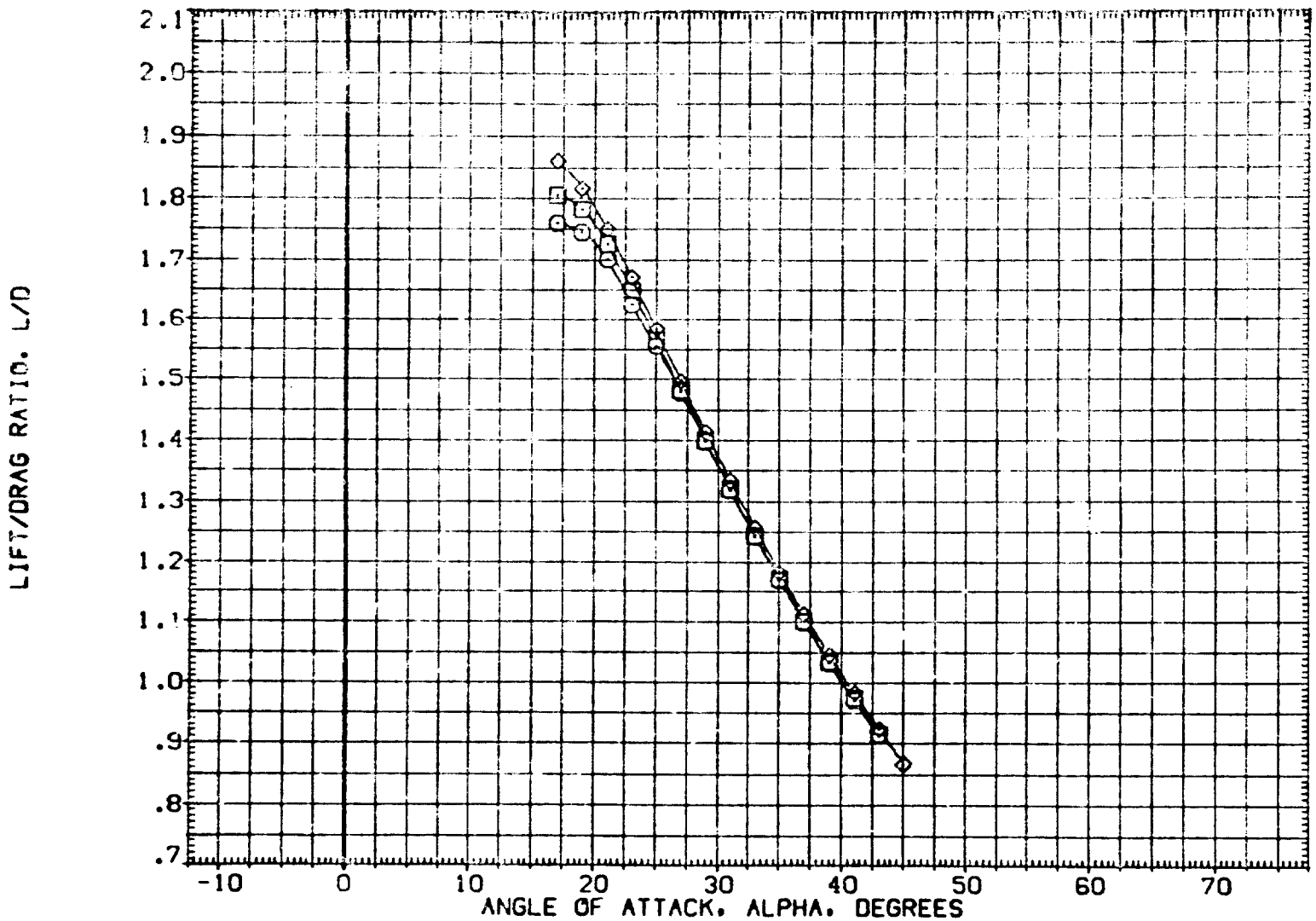


FIG. 25 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV062) □	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV054) ○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV025) ◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116

BN/L	BOFLAP	ELV-LO	ELV-LI
.500	.000	-40.000	-40.000
1.860	.000	-40.000	-40.000
3.530	.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

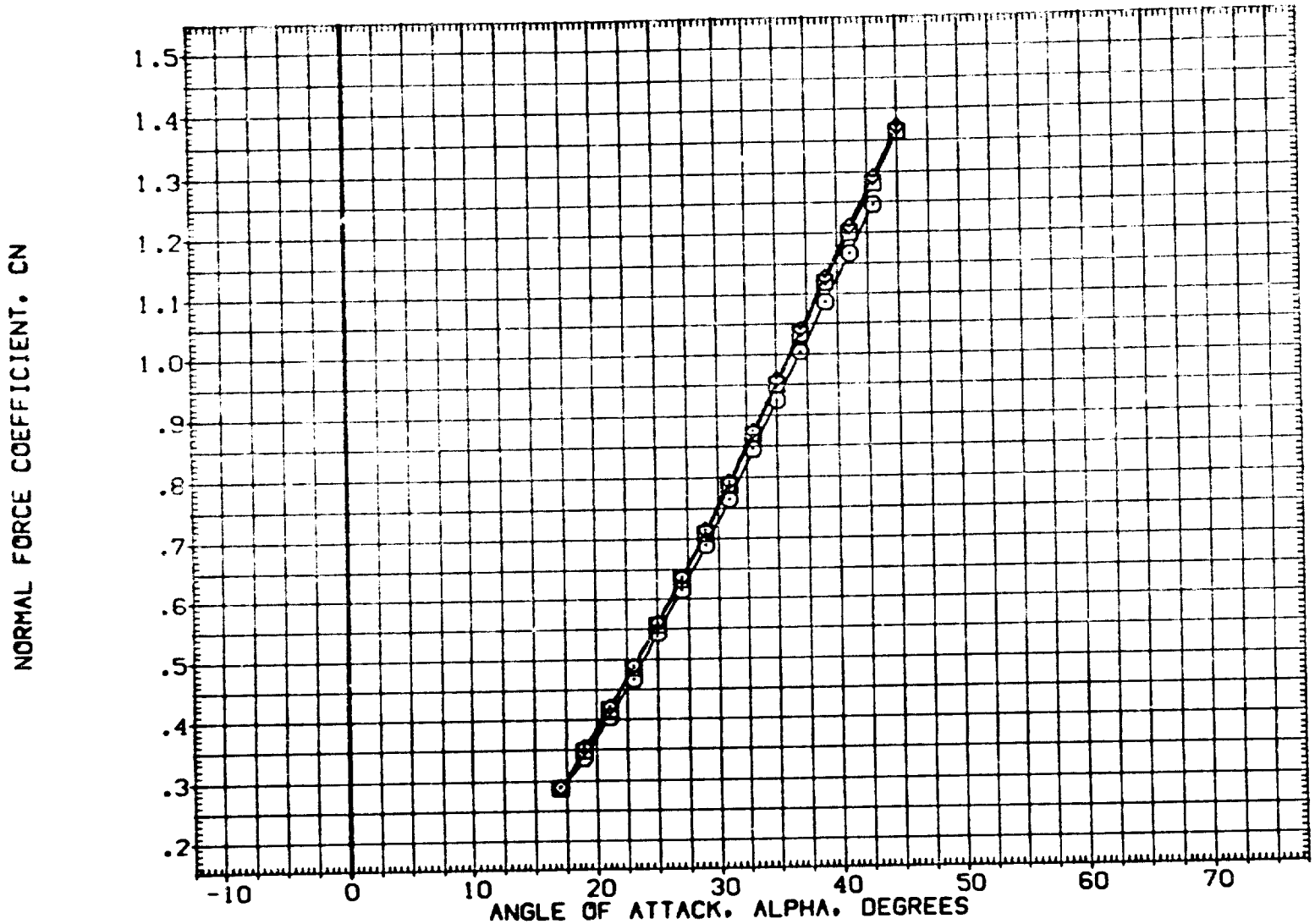


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BF/LAP	ELV-LO	ELV-LI
(CTV062)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	-40.000	-40.000
(CTV054)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	-40.000	-40.000
(CTV025)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.0800	IN.
XMRP	1076.6300	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

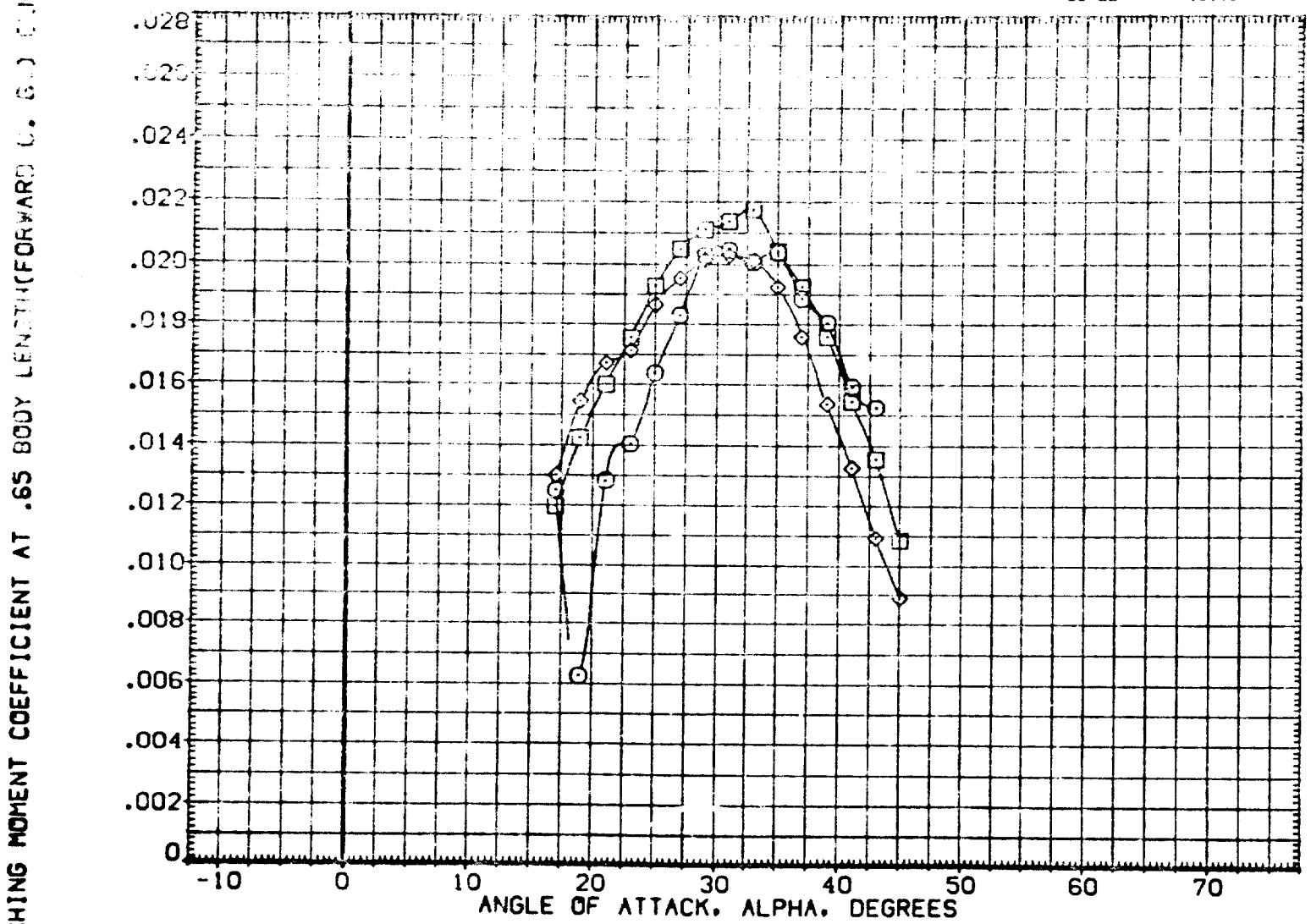


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	DOFLAP	ELV-LO	ELV-LI
(CTV062)	□	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.500	.000	-40.000	-40.000
(CTV054)	○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.660	.000	-40.000	-40.000
(CTV025)	◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.20
YMRP	.0000	IN.10
ZMRP	375.0000	IN.20
SCALE	.0150	

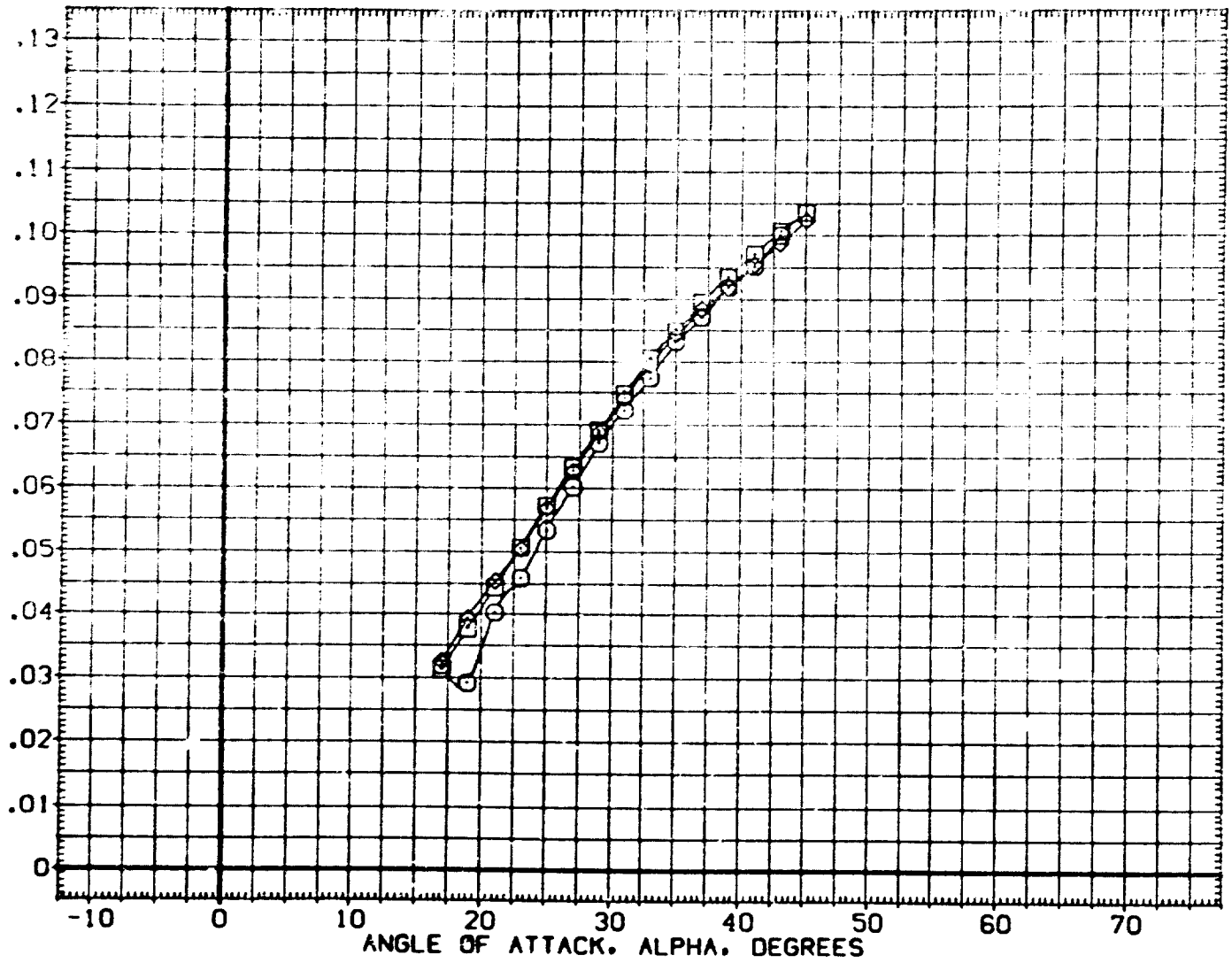


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV062)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV054)	□	0A79 B26 C9 E43 F8 M16 N29 R5 V8 W116
(CTV025)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BDFLAP	ELV-L0	ELV-L1
.500	.000	-40.000	-40.000
1.860	.000	-40.000	-40.000
3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

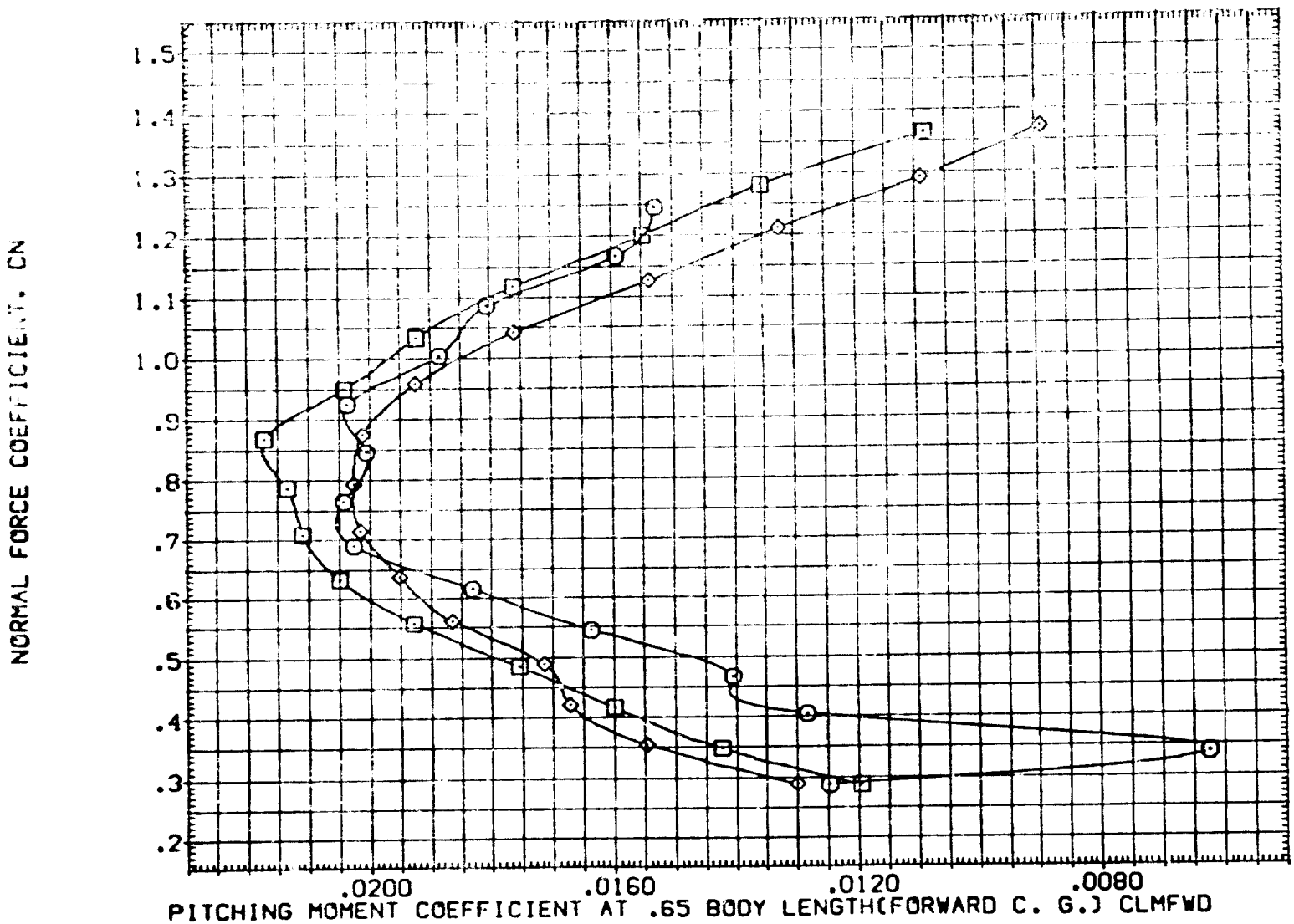


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV062)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	-40.000	-40.000
(CTV054)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	-40.000	-40.000
(CTV025)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

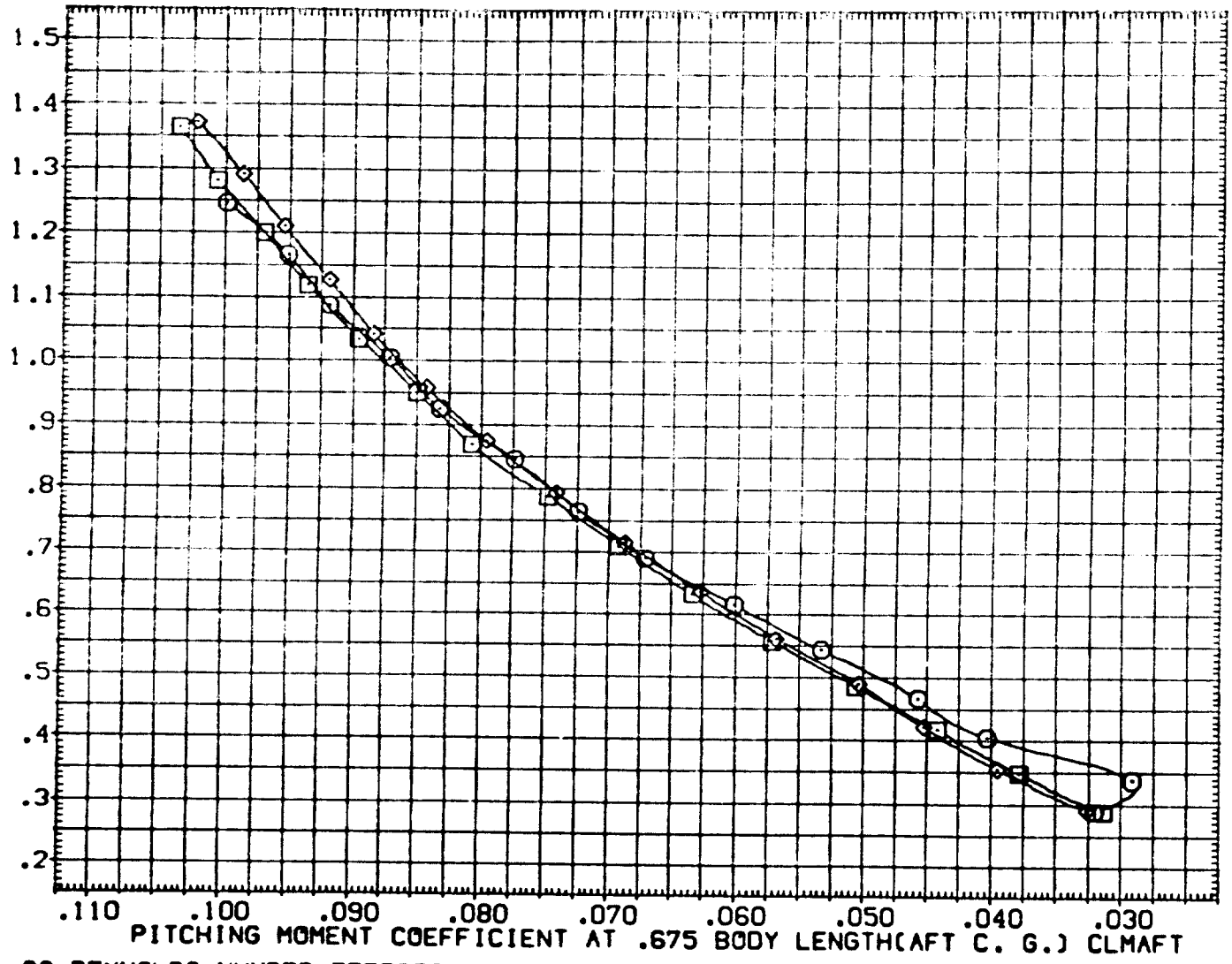


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(OTV062)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	.000	-40.000	-40.000
(OTV054)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	.000	-40.000	-40.000
(OTV025)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

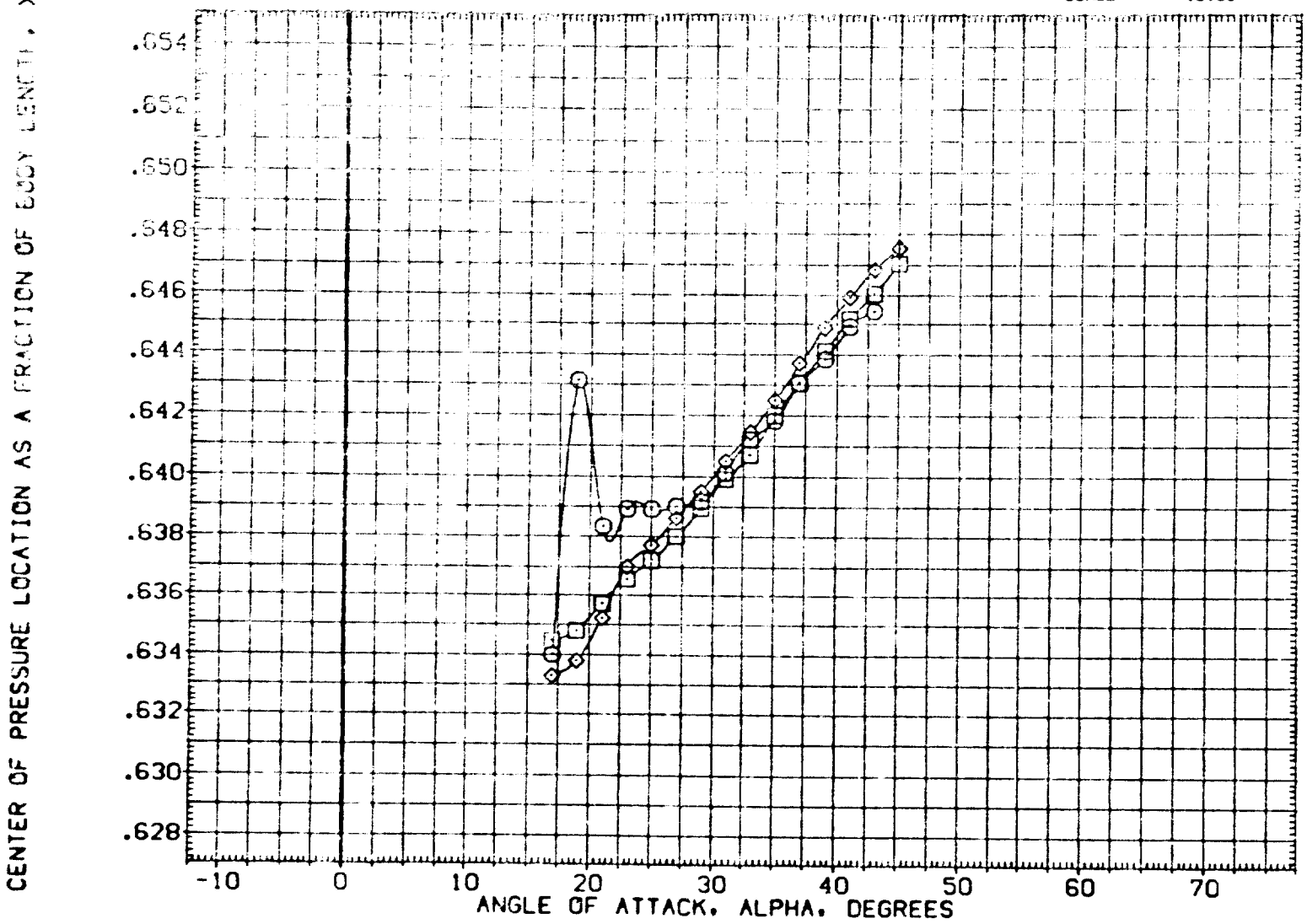


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BUFLAP	ELV-LO	ELV-LI
(CTV062)	□	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	-40.000	-40.000
(CTV054)	○	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	.000	-40.000	-40.000
(CTV025)	◇	BA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	935.6800	IN.
XMRP	1076.6800	IN.,XB
YMRP	.0000	IN.,YB
ZMRP	375.0000	IN.,ZB
SCALE	.0150	

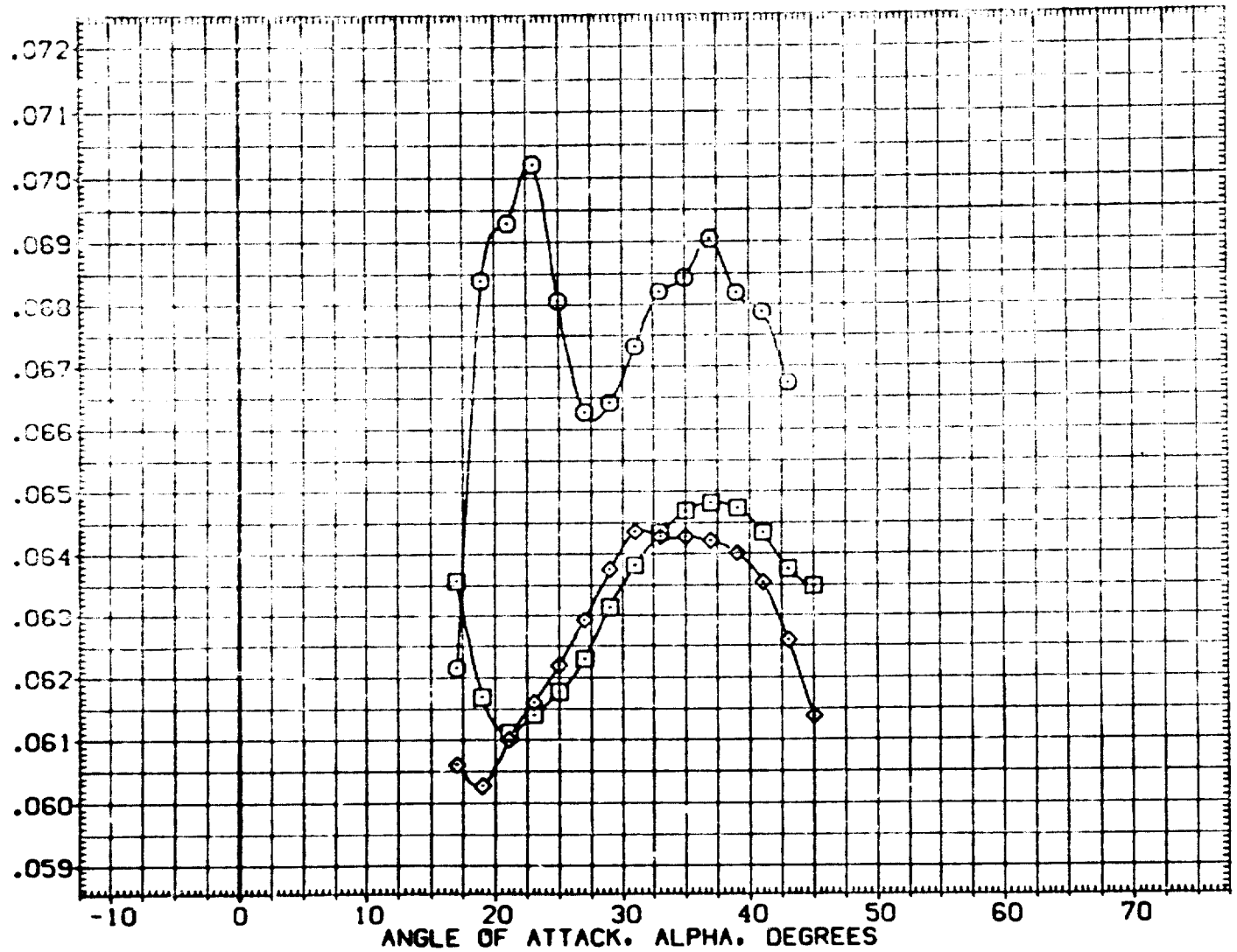


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
[illegible]V052]	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	.000	-40.000	-40.000
[illegible]V054]	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.880	.000	-40.000	-40.000
[illegible]025]	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

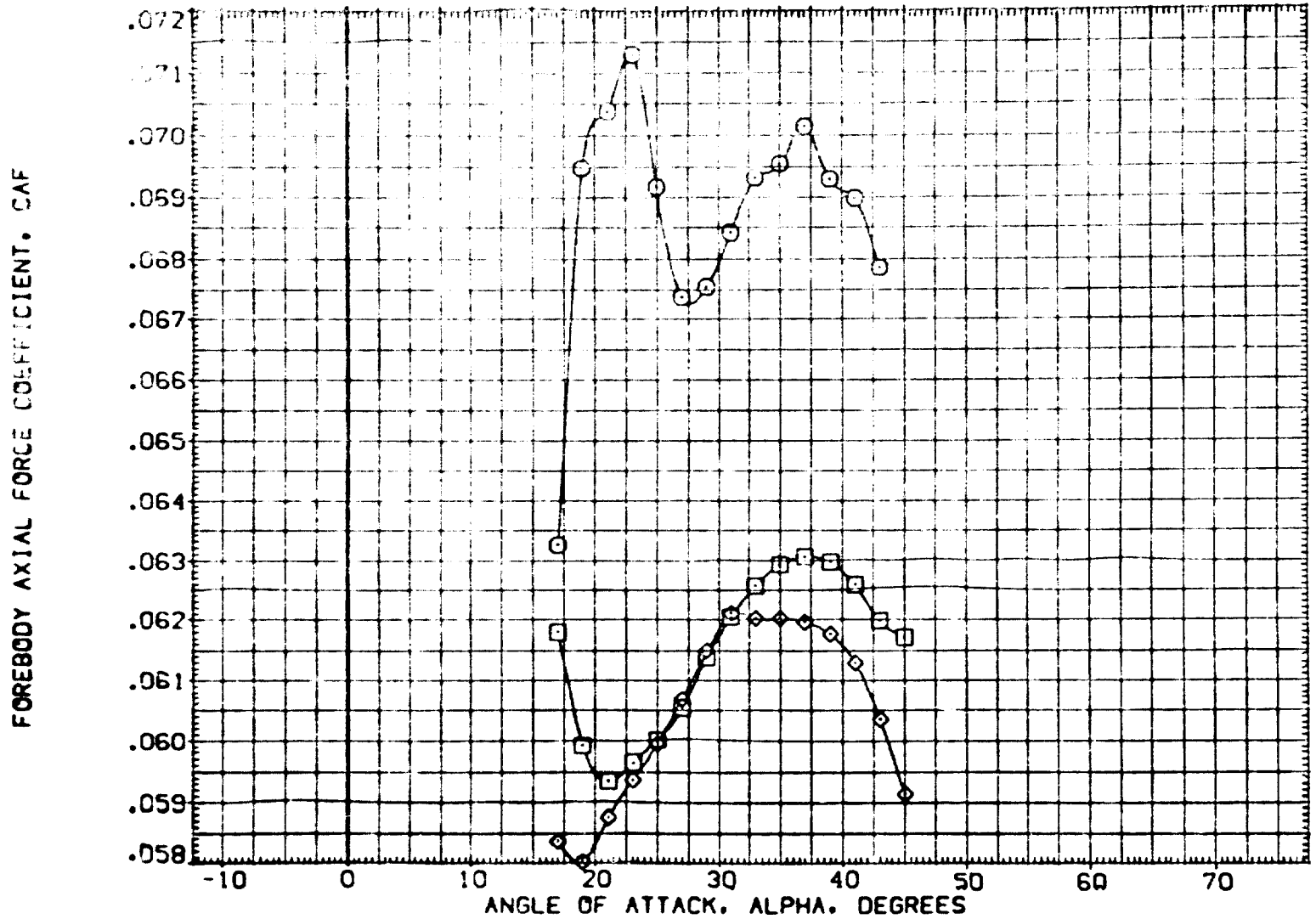


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	□	BA79 B26 C9 E43 F8 M16 N28 R5 v8 w116
[illegible]	○	BA79 B26 C9 E43 F8 M16 N28 R5 v8 w116
[illegible]	◇	BA79 B26 C9 E43 F8 M16 N28 R5 v8 w116

RN/L	BDFLAP	ELV-LO	ELV-UP
.500	.000	-40.000	-40.000
1.860	.000	-40.000	-40.000
3.530	.000	-40.000	-40.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	FT.
BREF	936.6800	FT.
[illegible]	1075.6800	FT.
[illegible]	.0000	FT.
[illegible]	375.0000	FT.
SCALE	.0150	

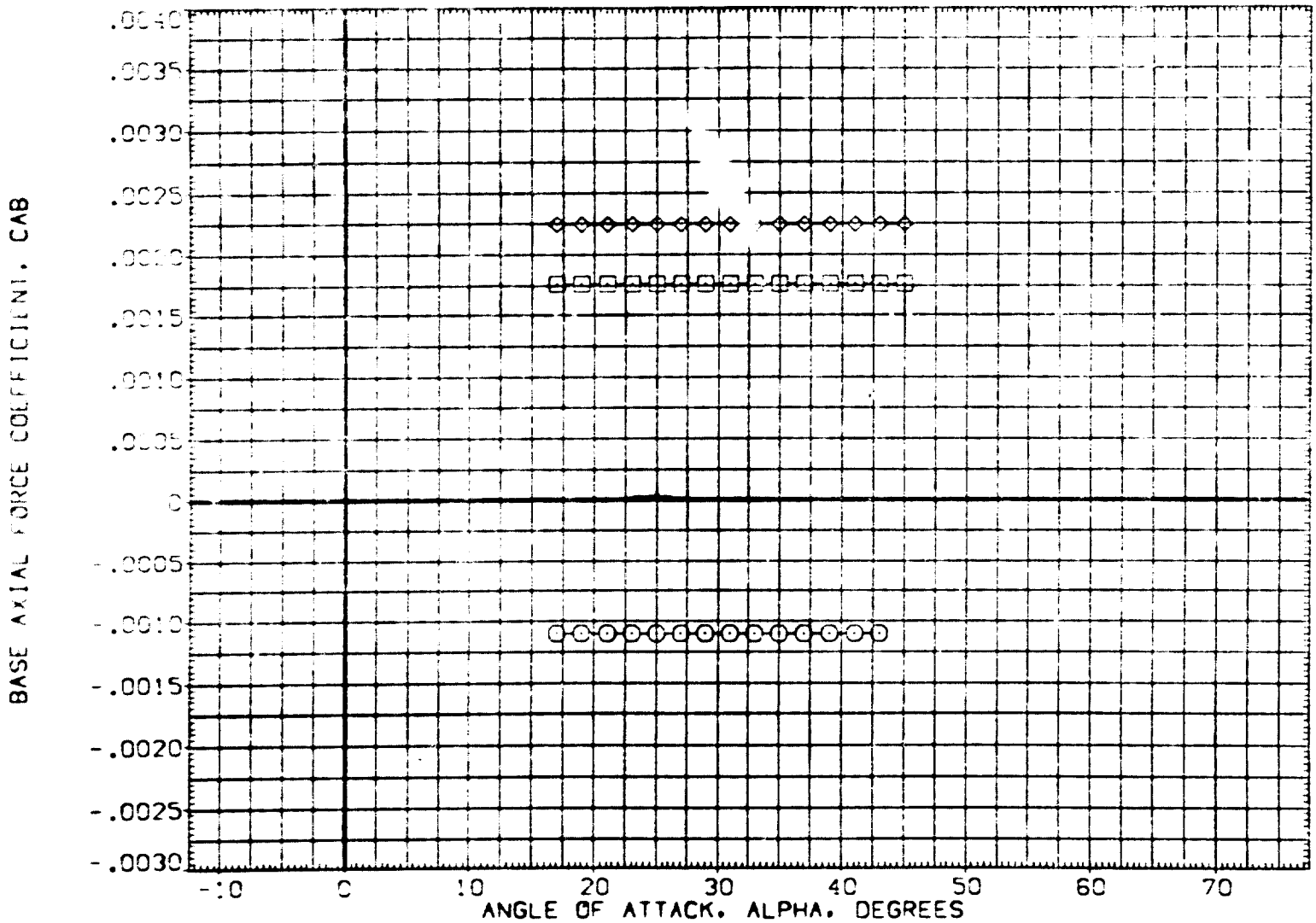


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

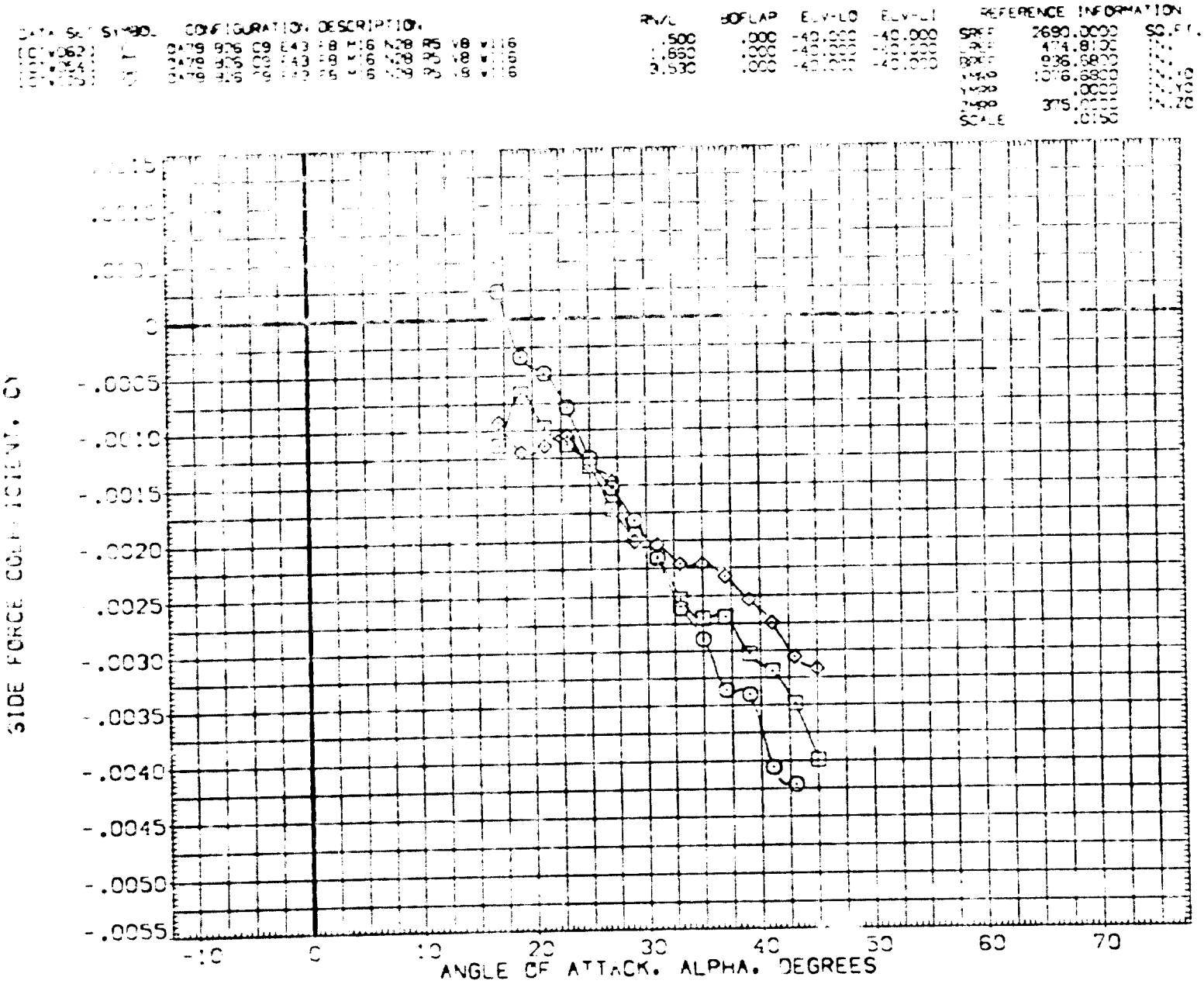


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

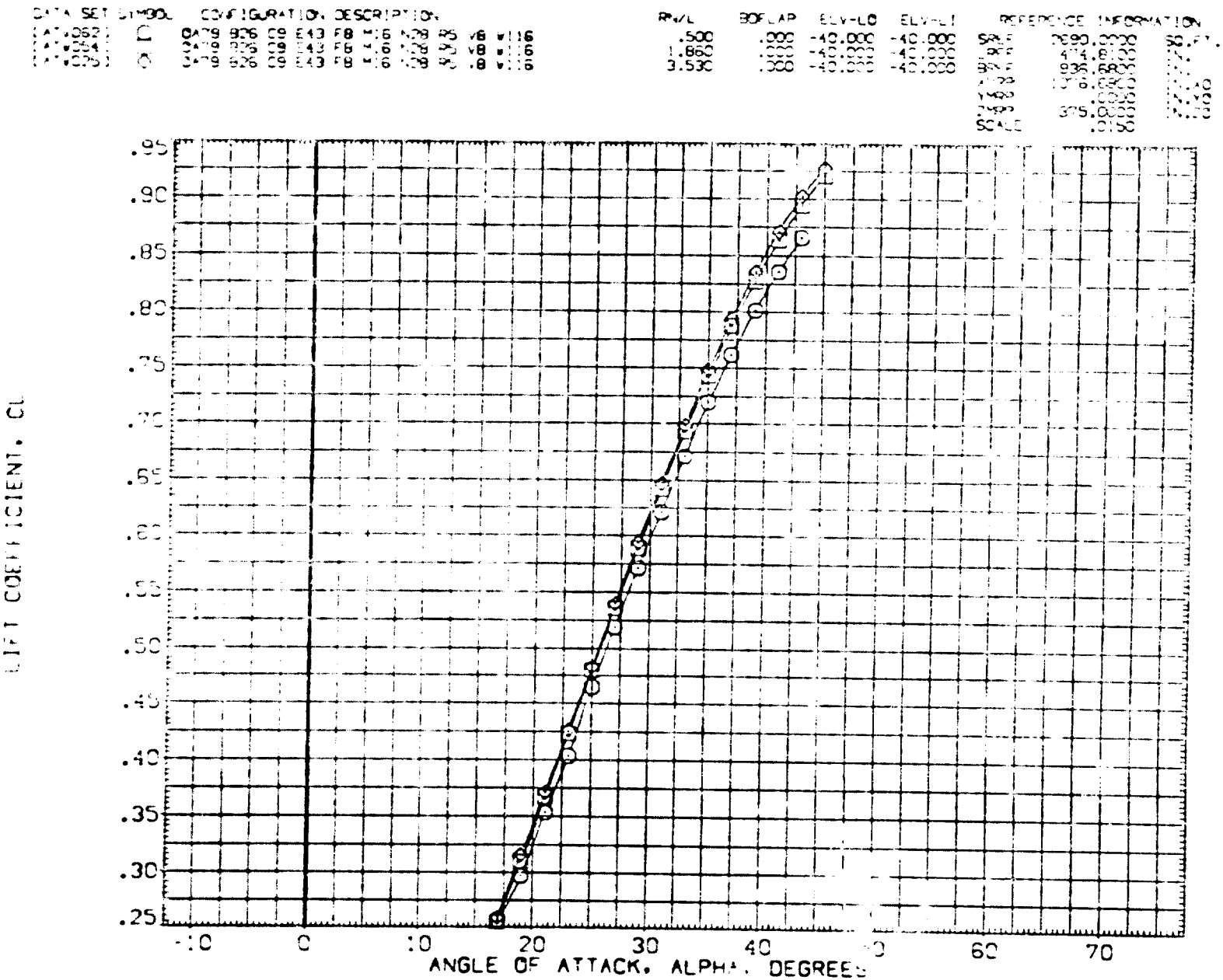


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

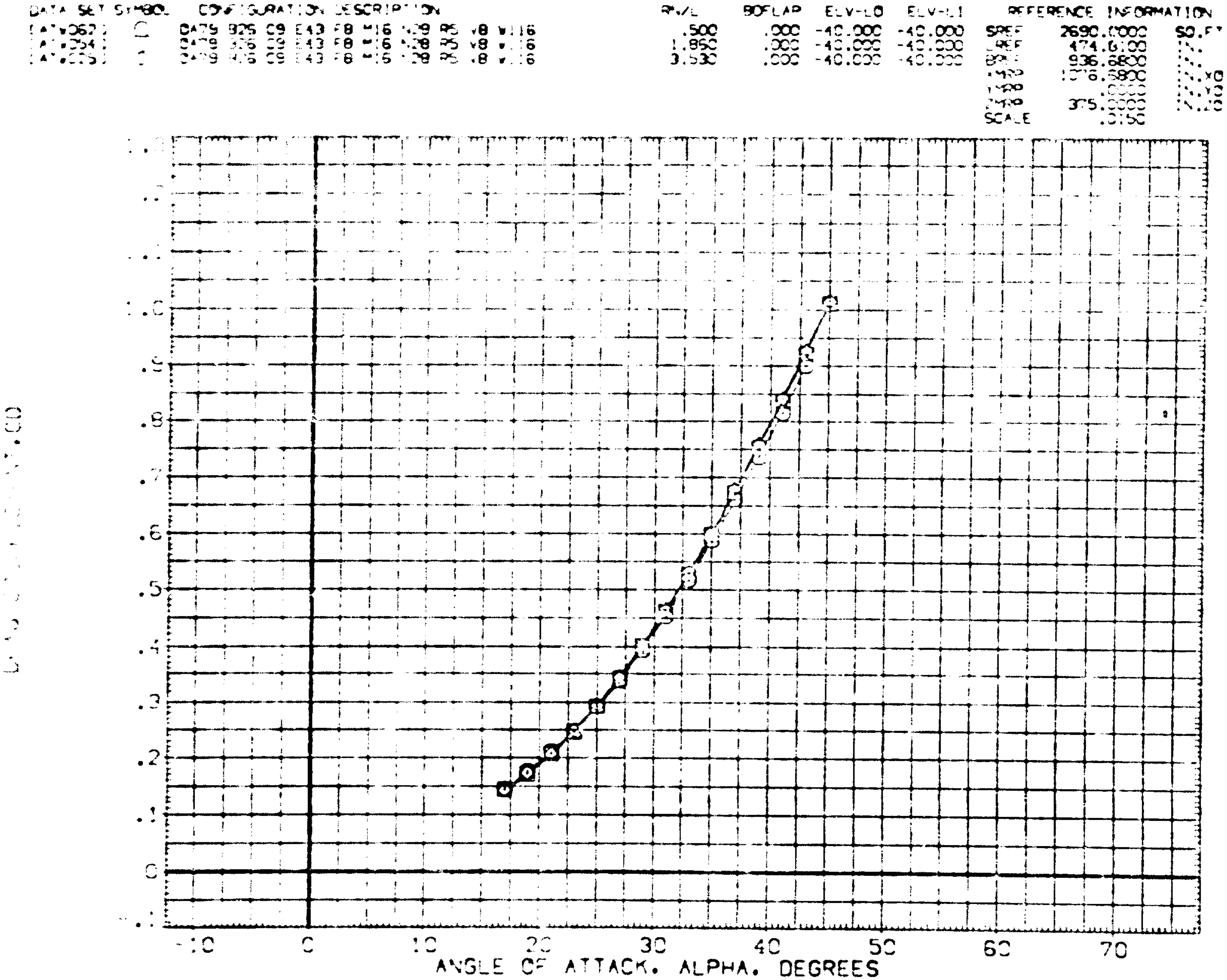


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH .90

FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40. BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATW062)	□	OA79 B2S C9 E43 F8 M16 N28 R5 V8 W116	.500	.000	-40.000	-40.000
(ATW054)	◇	OA79 B2S C9 E43 F8 M16 N28 R5 V8 W116	1.860	.000	-40.000	-40.000
(ATW025)	△	OA79 B2S C9 E43 F8 M16 N28 R5 V8 W116	3.530	.000	-40.000	-40.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

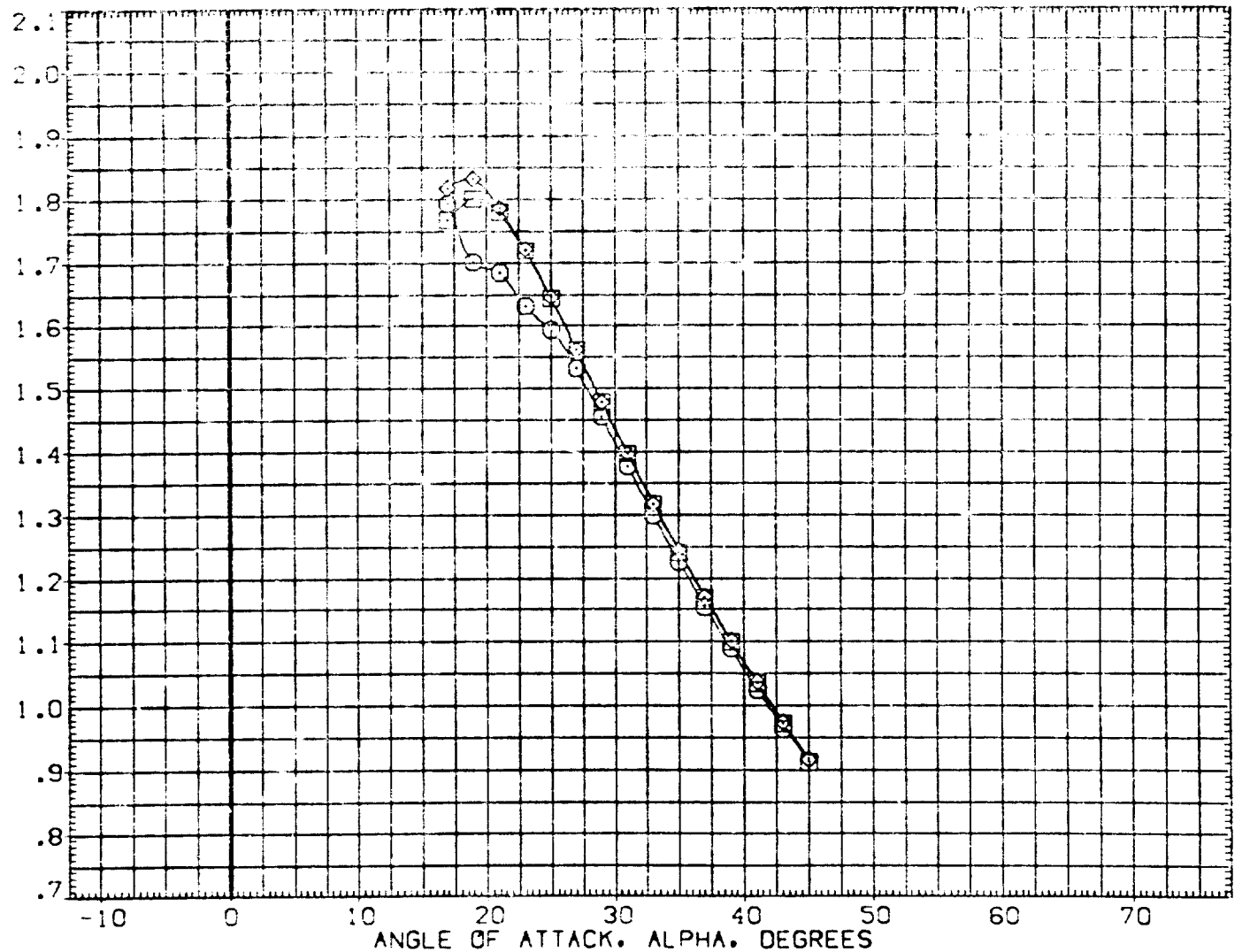


FIG. 26 REYNOLDS NUMBER EFFECTS (ELEVON =-40, BODY FLAP= 0)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTVC55)	○	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	10.000	10.000
(CTVC50)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.060	16.300	10.000	10.000
(CTVC47)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.530	16.300	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.5800	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

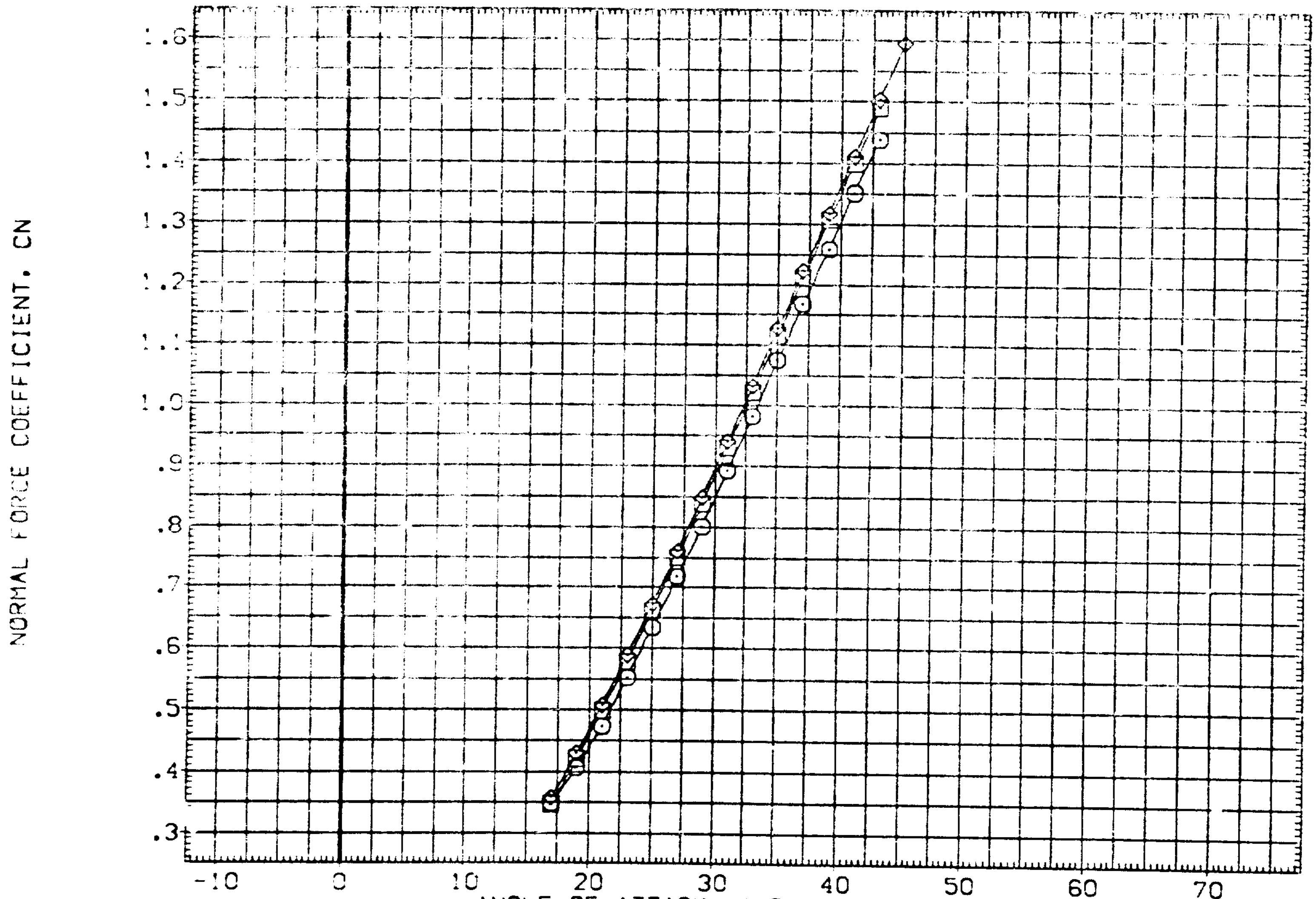
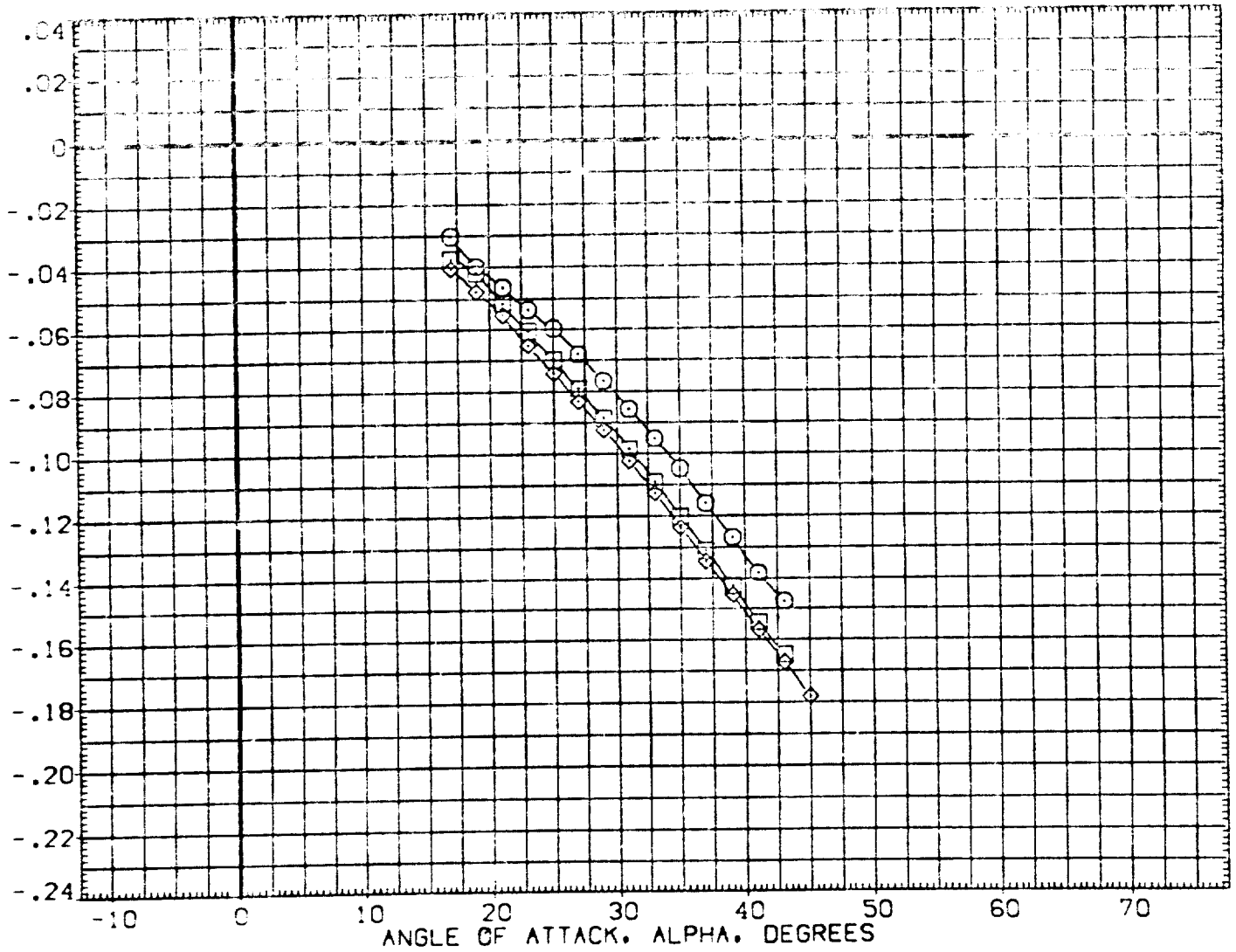


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)
(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
[illegible]	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
[illegible]	▽	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.,XG
YMRP	.0000	IN.,YG
ZMRP	375.0000	IN.,ZG
SCALE	.0150	



PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH(FORWARD C. G.) CLMFWD

FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

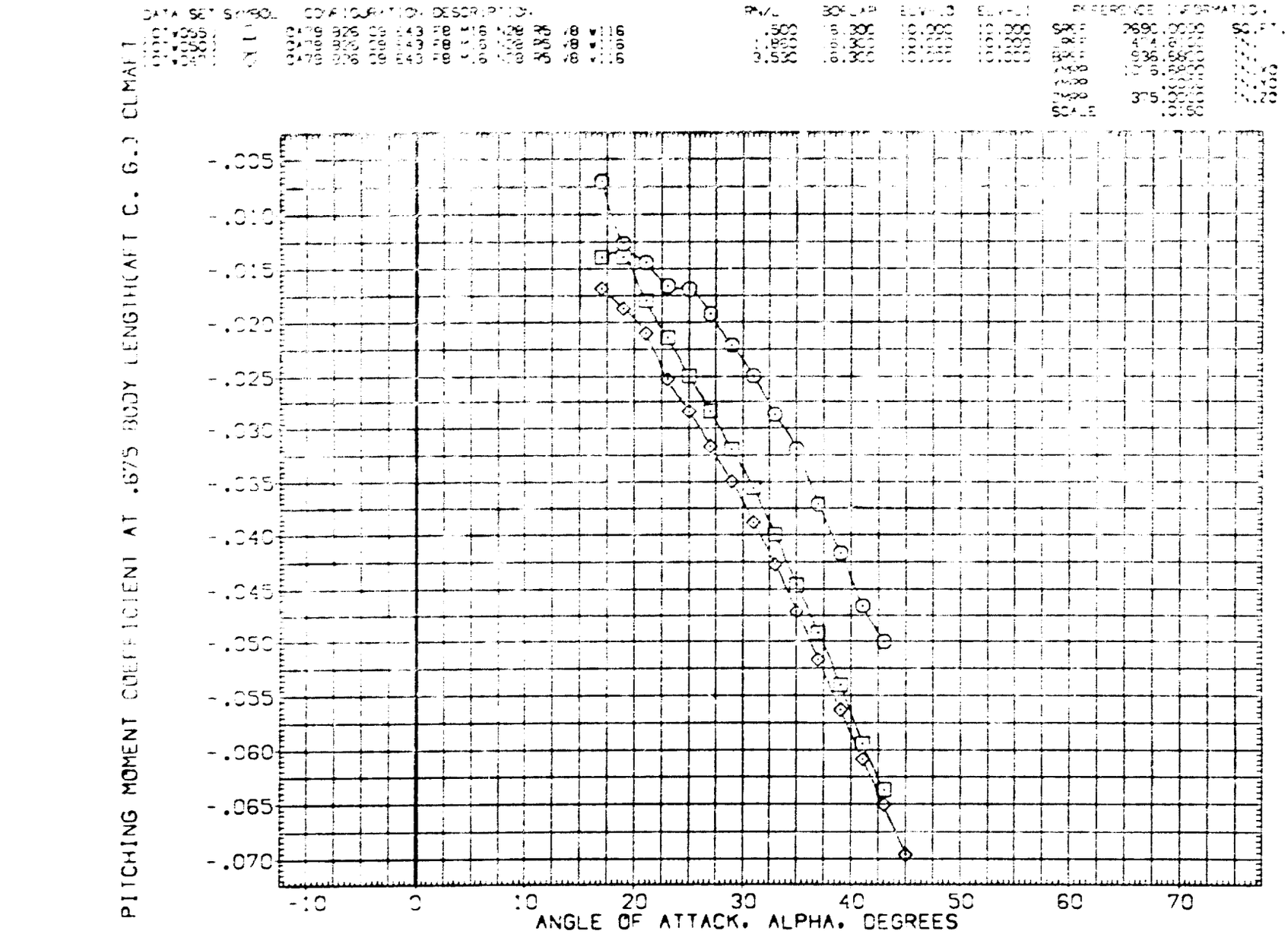


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV055)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	10.000	10.000
(CTV050)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	10.000	10.000
(CTV047)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

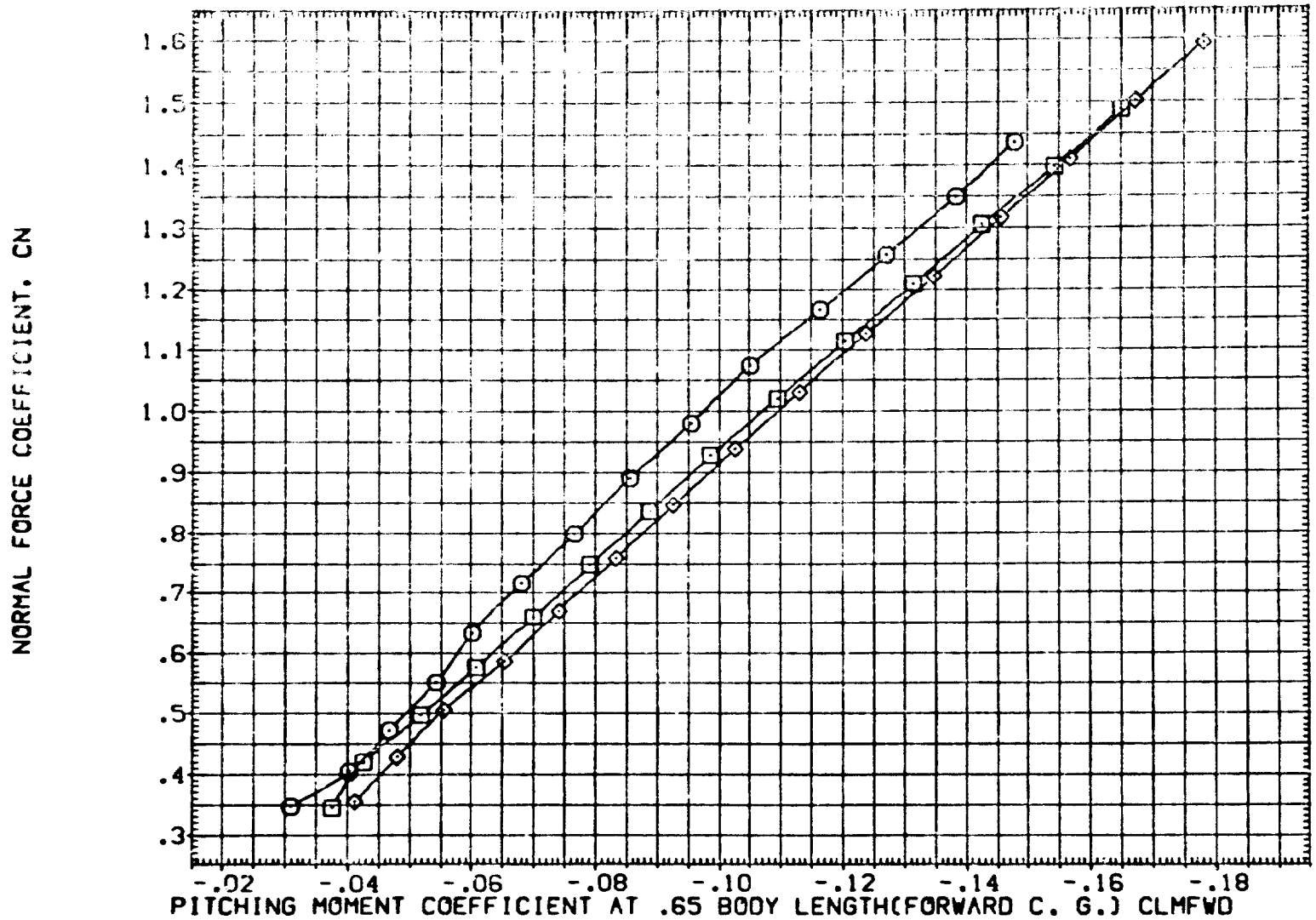


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV056)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV050)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16
(CTV047)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W16

RNVL	BOFLAP	ELV-LO	ELV-LI
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.330	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1075.6800	IN.XG
YMRP	.0000	IN.YG
ZMRP	375.0000	IN.ZG
SCALE	.0150	

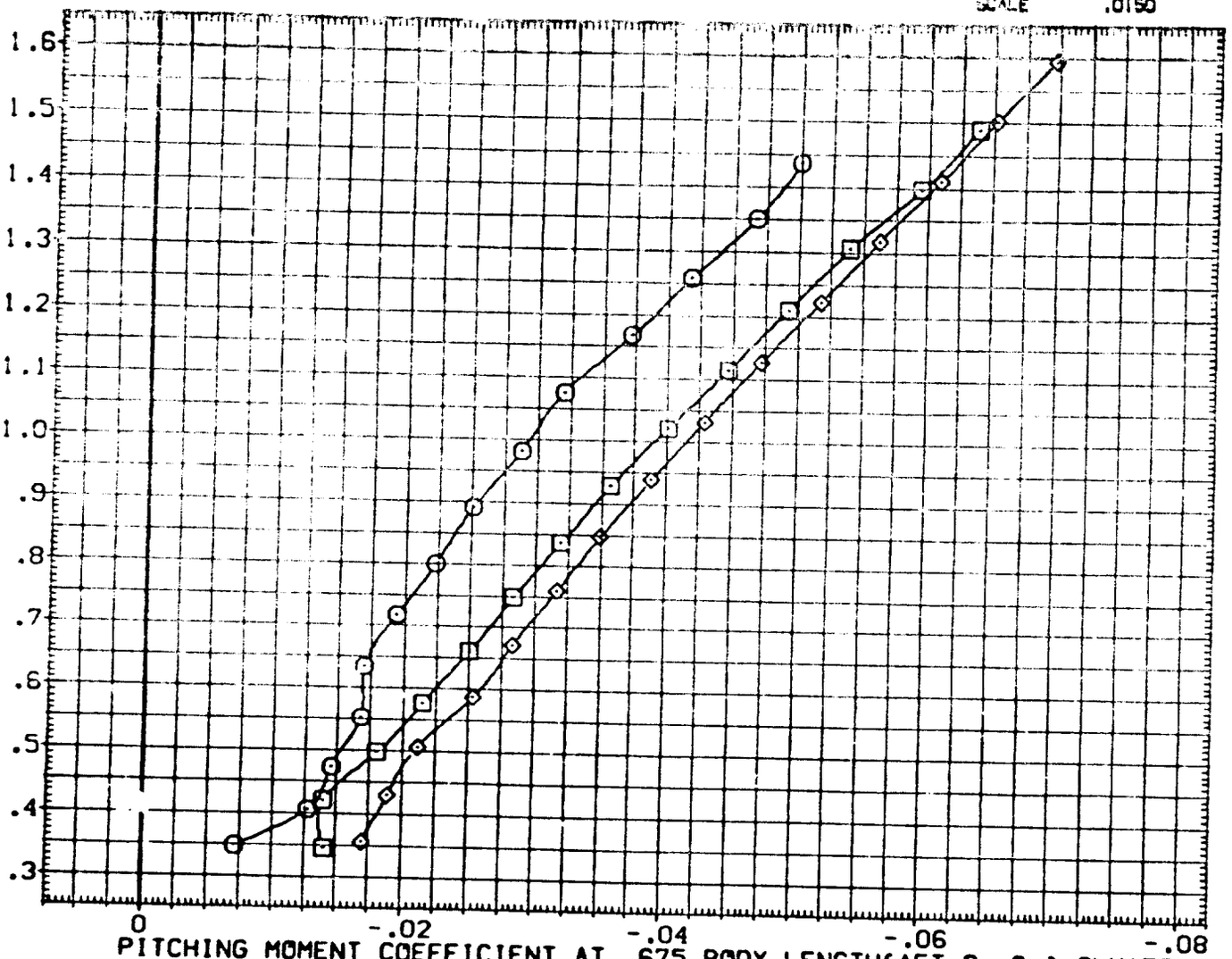


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-L0	ELV-L1
(CTV055)	□	OA79 B26 C9 E43 F8 M16 N23 R5 V8 W16	.500	16.300	10.000	10.000
(CTV050)	□	OA79 B26 C9 E43 F8 M16 N23 R5 V8 W16	1.860	16.300	10.000	10.000
(CTV047)	◇	OA79 B26 C9 E43 F8 M16 N20 R5 V8 W16	3.530	16.300	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

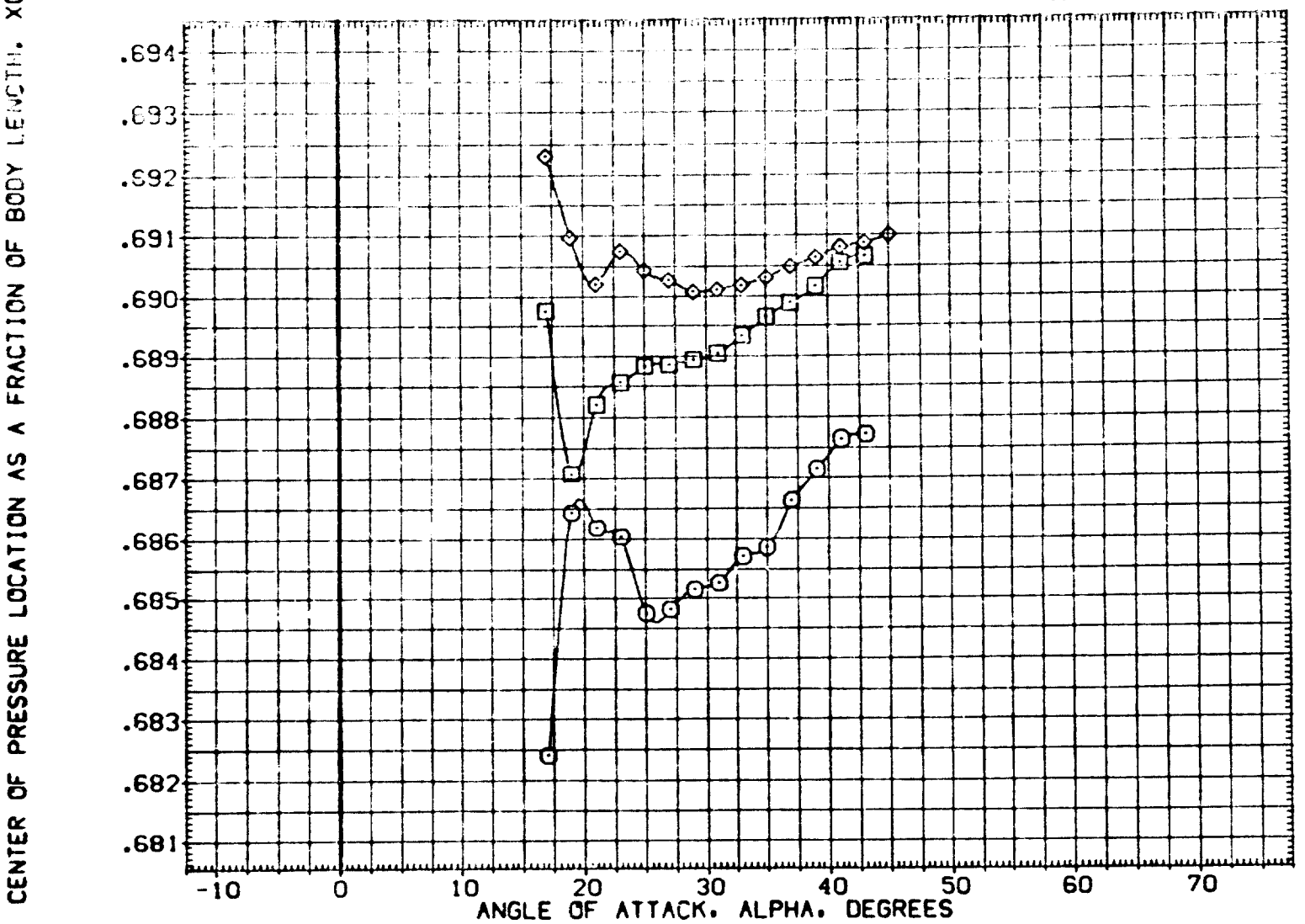


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV055)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	10.000	10.000
(CTV050)	△	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	10.000	10.000
(CTV047)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5600	IN.
XMRP	1075.9800	IN.X9
YMRP	.0000	IN.Y9
ZMRP	375.0000	IN.Z9
SCALE	.0150	

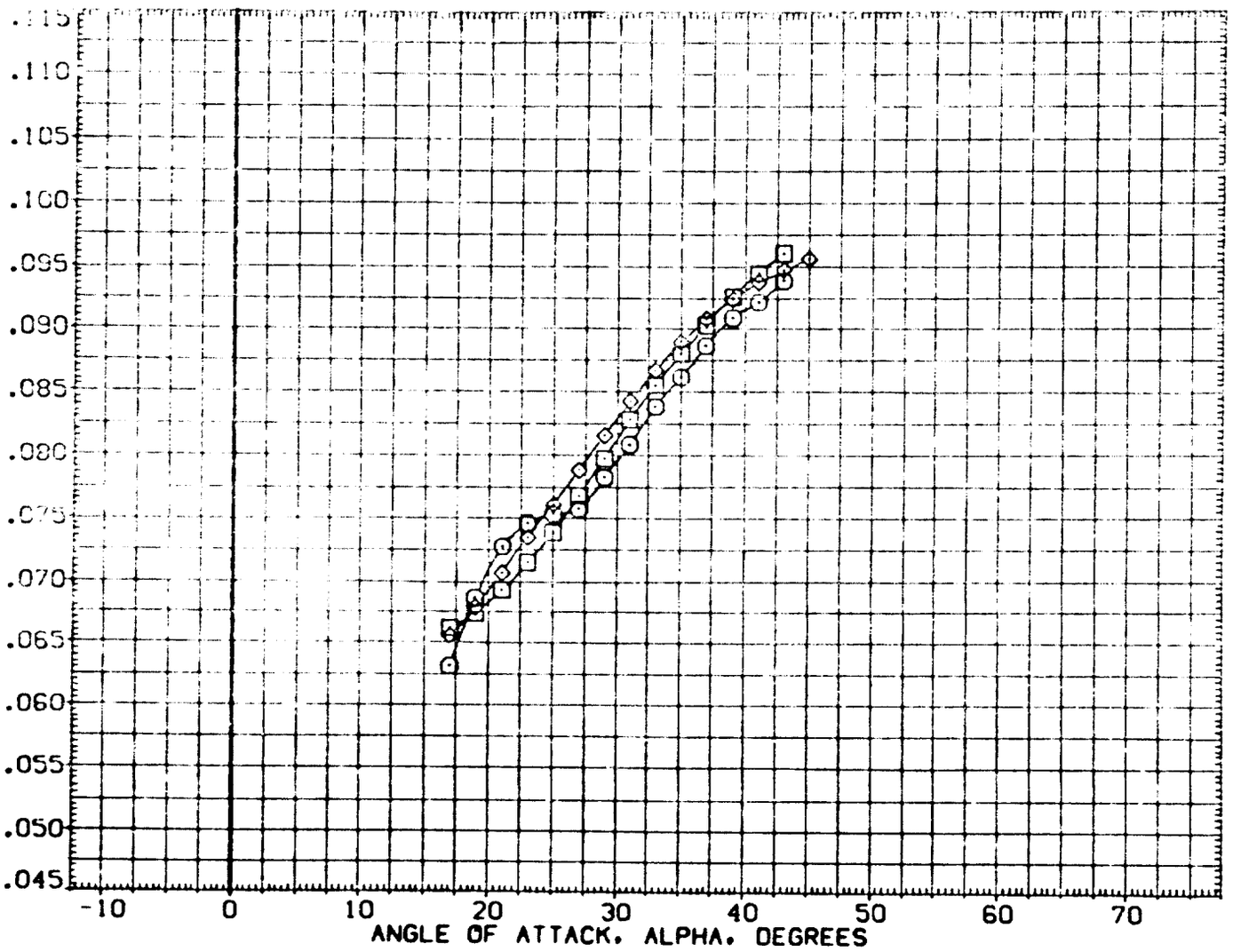


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CTV055)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV050)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV047)	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BOFLAP	ELV-LO	ELV-LI
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

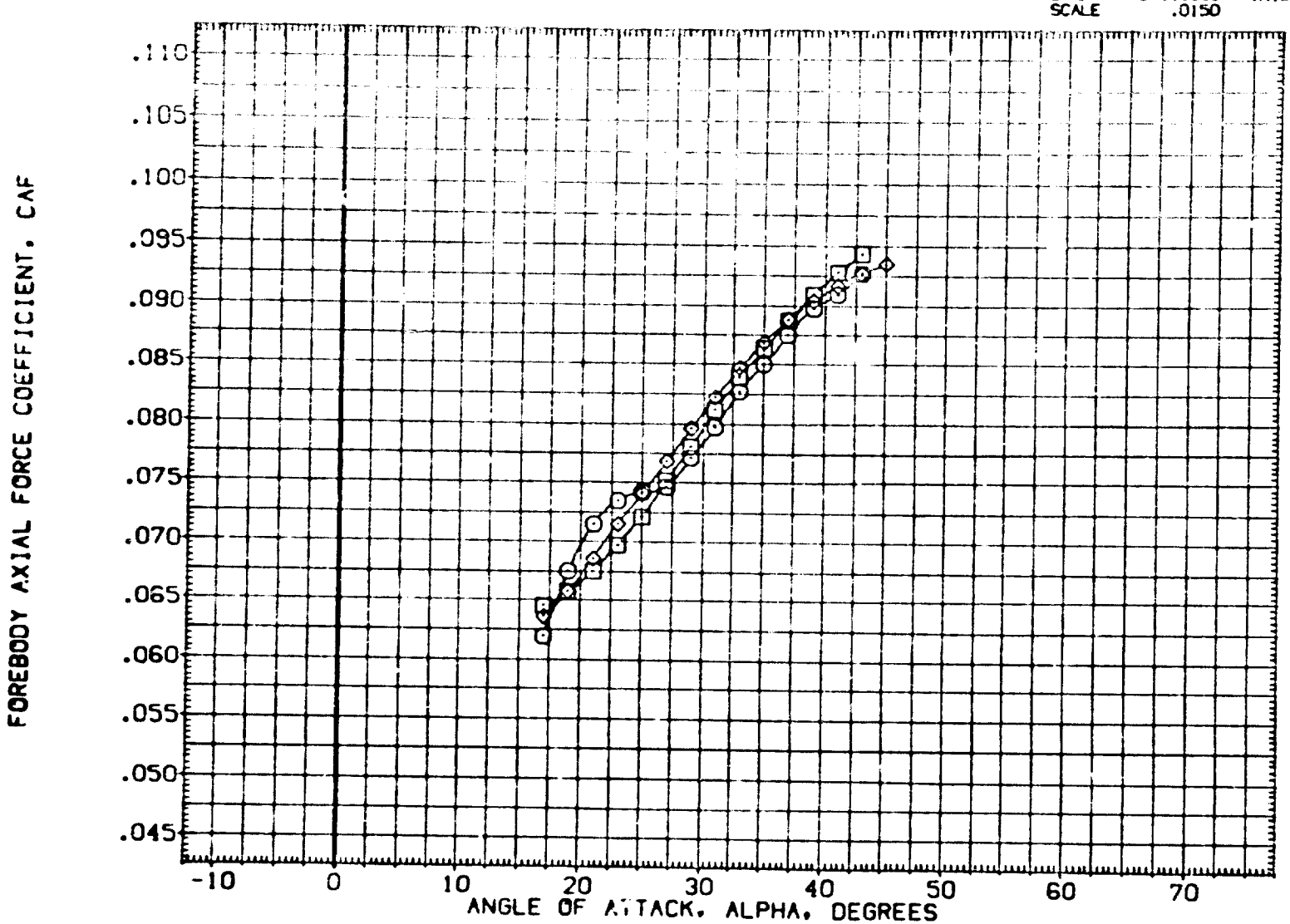


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV055)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV060)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV047)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RNVL	BDFLAP	ELV-LO	ELV-UP
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRC	1076.6400	IN.X0
YMRC	.0000	IN.Y0
ZMRC	375.0000	IN.Z0
SCALE	.0150	

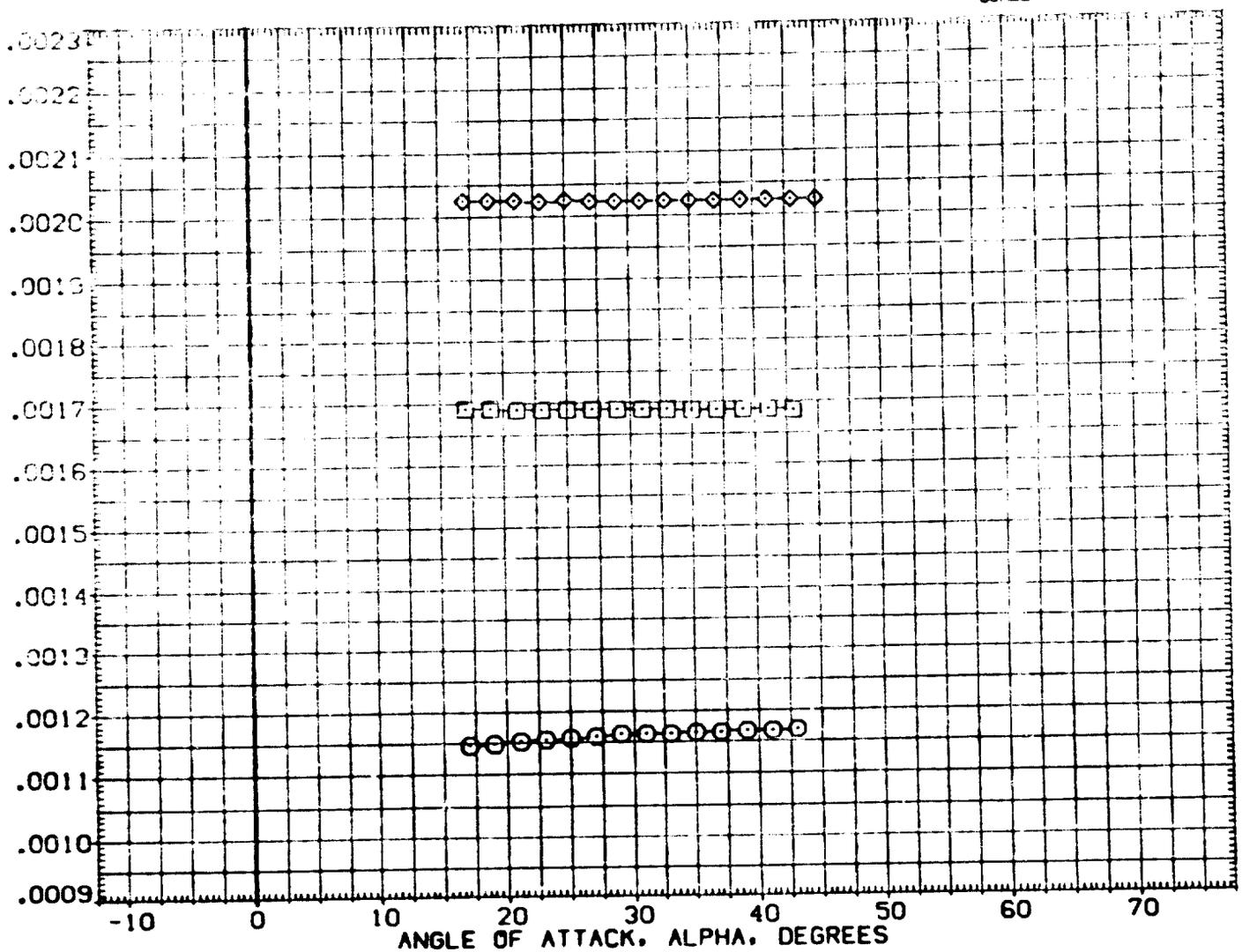


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116
[illegible]	BA79 B25 C9 E43 F8 M16 N28 R5 V8 W116
[illegible]	BA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BOFLAP	ELV-LO	ELV-UP
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1075.6900	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

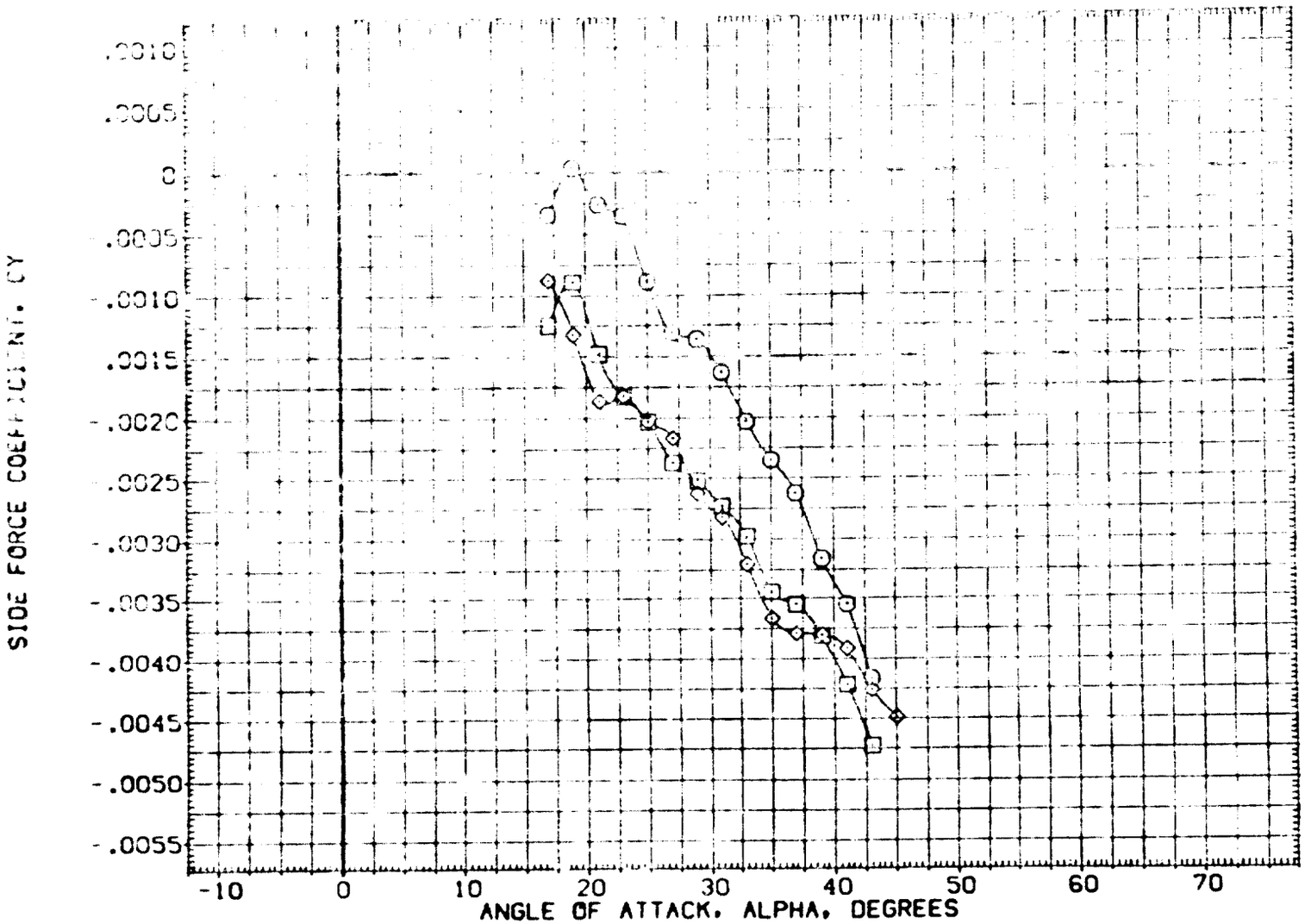


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RNVL	BDFLAP	ELV-LO	ELV-LI
(A)V056	□	CA3 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	10.000	10.000
(A)V050	○	CA3 B26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	16.300	10.000	10.000
(A)V047	◇	CA3 B26 C9 E43 F8 M16 N28 R5 V8 W116	3.050	16.300	10.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.9100	IN.
BREF	675.0000	IN.
XMRP	1076.0000	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

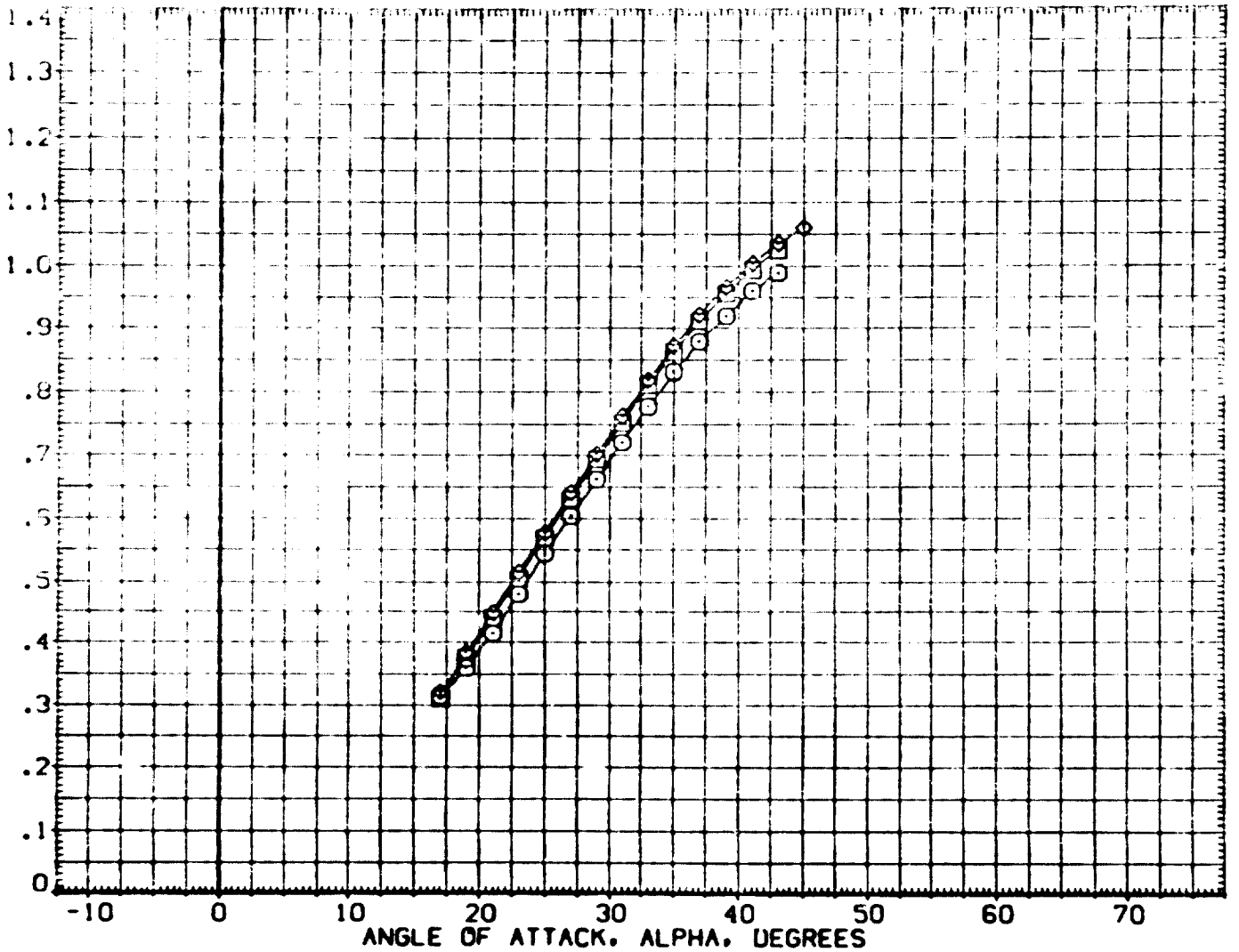


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

PNL	BDFLAP	ELV-LO	ELV-LI
.500	16.300	10.000	10.000
1.060	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION

SREF	2630.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6700	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

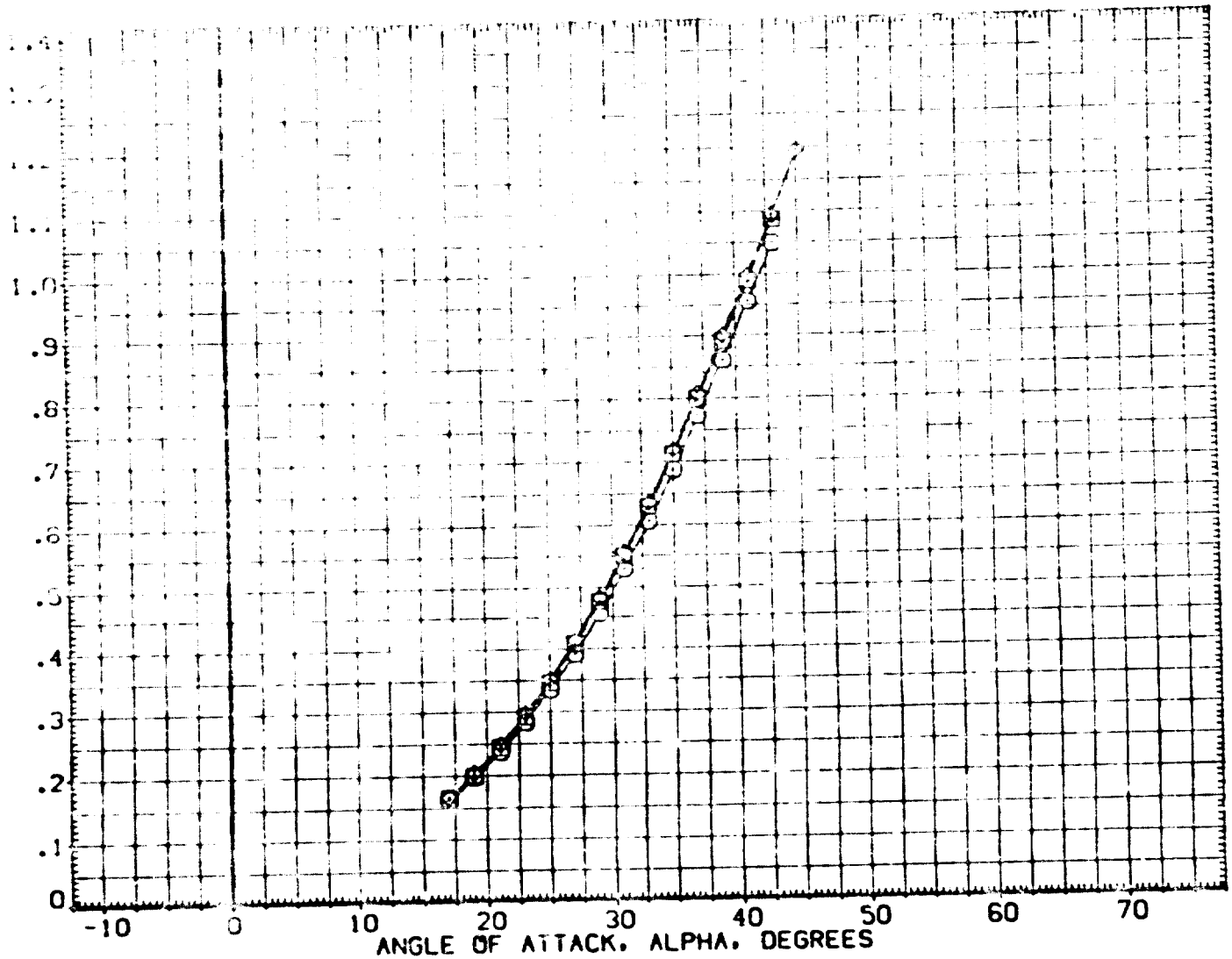


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

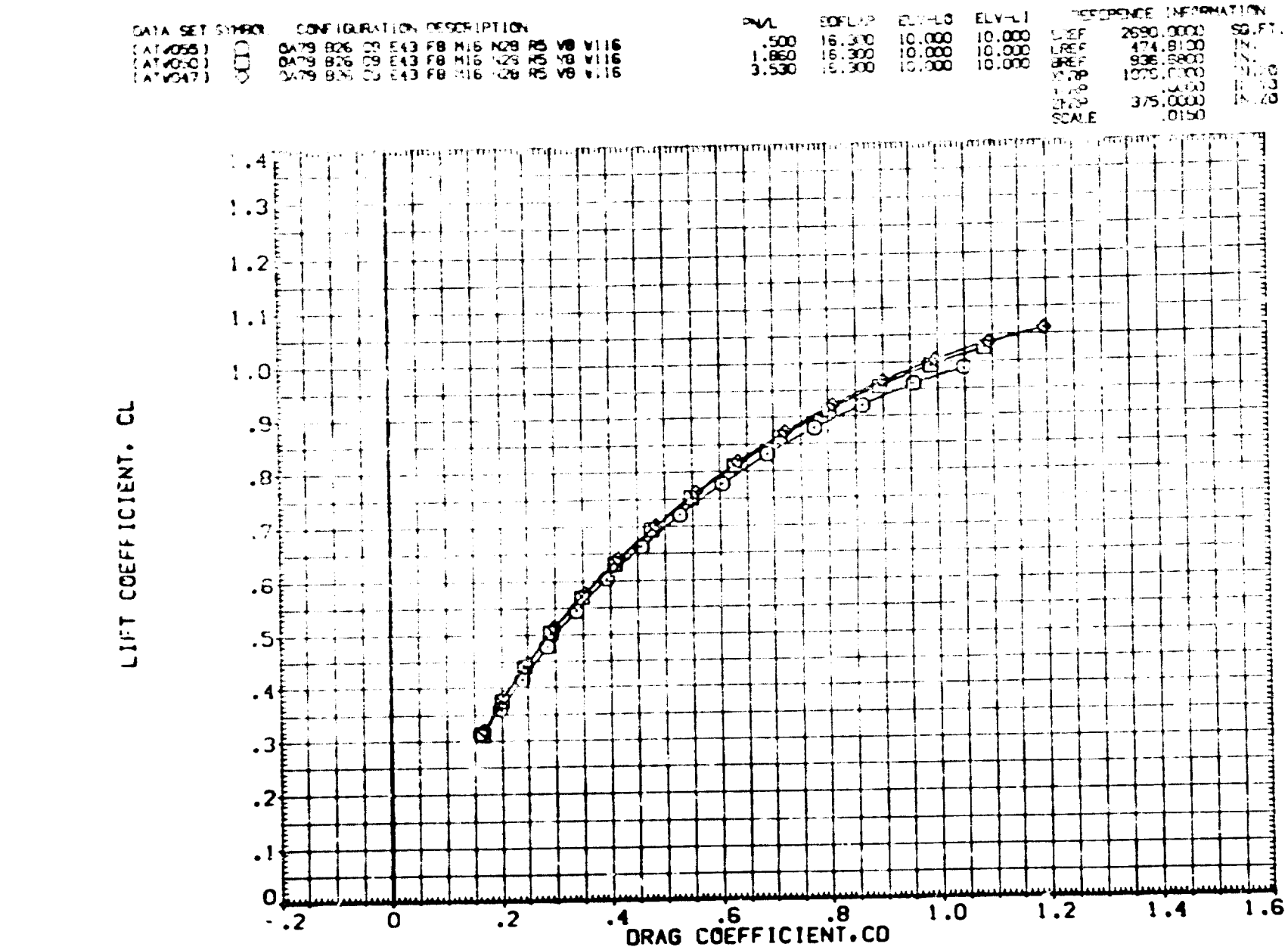


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(ATW055)	OA79 B26 C9 E43 F8 M16 N28 R5 VR V116
(ATW050)	OA79 B26 C9 E43 F8 M16 N28 R5 VR V116
(ATW047)	OA79 B26 C9 E43 F8 M16 N28 R5 VR V116

RNVL	BDFLAP	ELV-LO	ELV-LI
.500	16.300	10.000	10.000
1.860	16.300	10.000	10.000
3.530	16.300	10.000	10.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

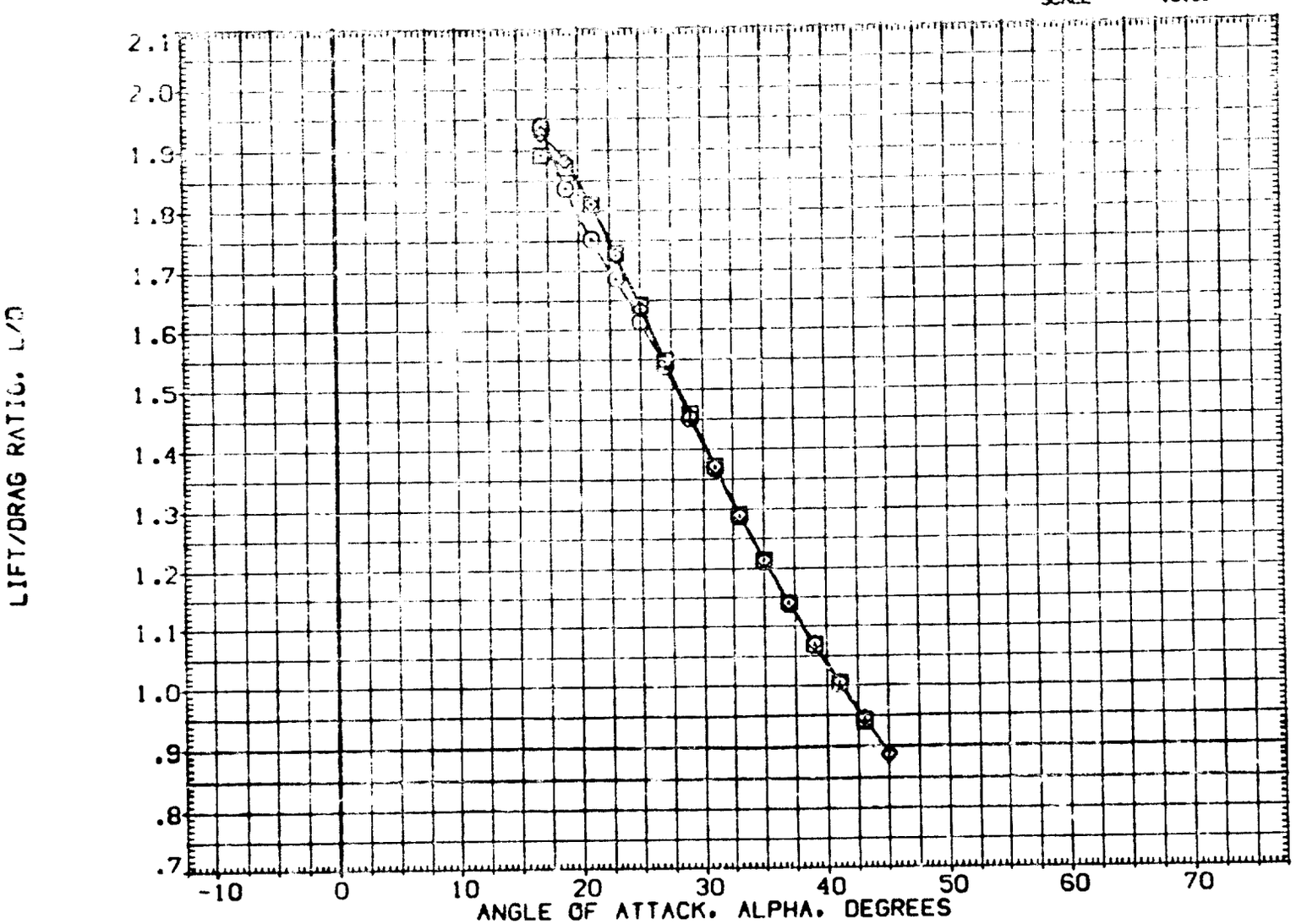


FIG. 27 REYNOLDS NUMBER EFFECTS (ELEVON = 10, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV060)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116	.500	16.300	20.000	20.000
(CTV053)	□	0A79 R26 C9 E43 F8 M16 N28 R5 V8 W116	1.860	16.300	20.000	20.000
(CTV021)	◇	0A79 R25 C9 E43 F8 M16 N23 R5 V8 W116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
[illegible]	[illegible]	IN.
[illegible]	1076.[illegible]	IN.XO
YMRP	.0000	IN.YO
ZMRP	375.0000	IN.ZO
SCALE	.0150	

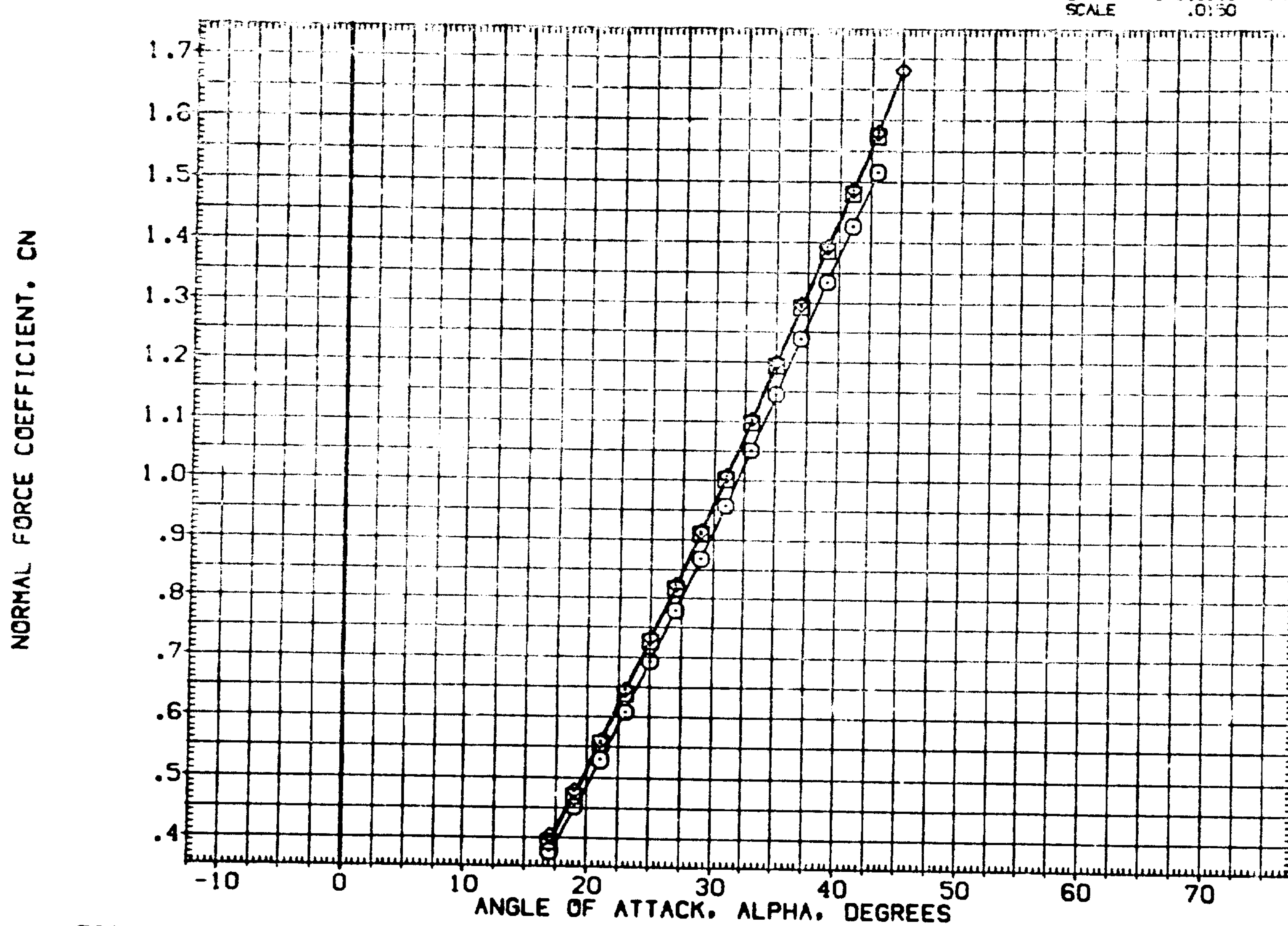


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)
(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BOFLAP	ELV-LO	ELV-LI
(D(V060)	□	CA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(D(V059)	○	CA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	20.000	20.000
(D(V021)	◇	CA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	336.0970	IN.
XMRP	1076.8300	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

PITCHING MOMENT COEFFICIENT AT .65 BODY LENGTH(FORWARD C. G.) CL MFWB

-.02
-.04
-.06
-.08
-.10
-.12
-.14
-.16
-.18
-.20
-.22
-.24
-.26
-.28
-.30

-10 0 10 20 30 40 50 60 70

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV060)	□	OA79 B26 C9 E43 F8 H16 N28 R35 V8 V116
(CTV053)	□	OA79 B26 C9 E43 F8 H16 N28 R35 V8 V116
(CTV021)	◇	OA79 B26 C9 E43 F8 H16 N28 R35 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.650	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	393.6000	IN.
XMRP	1076.4000	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

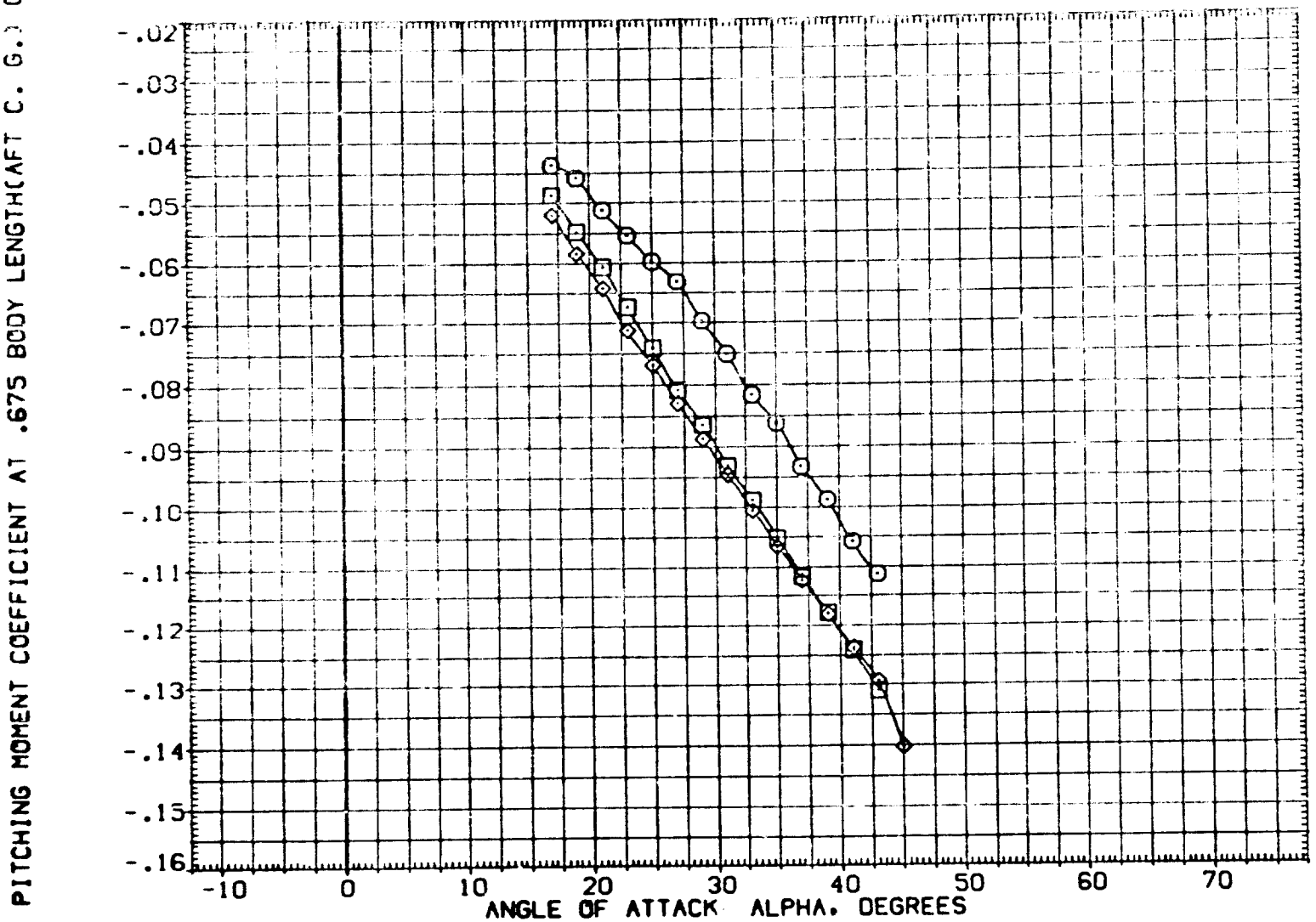


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV060)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(CTV053)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	20.000	20.000
(CTV021)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

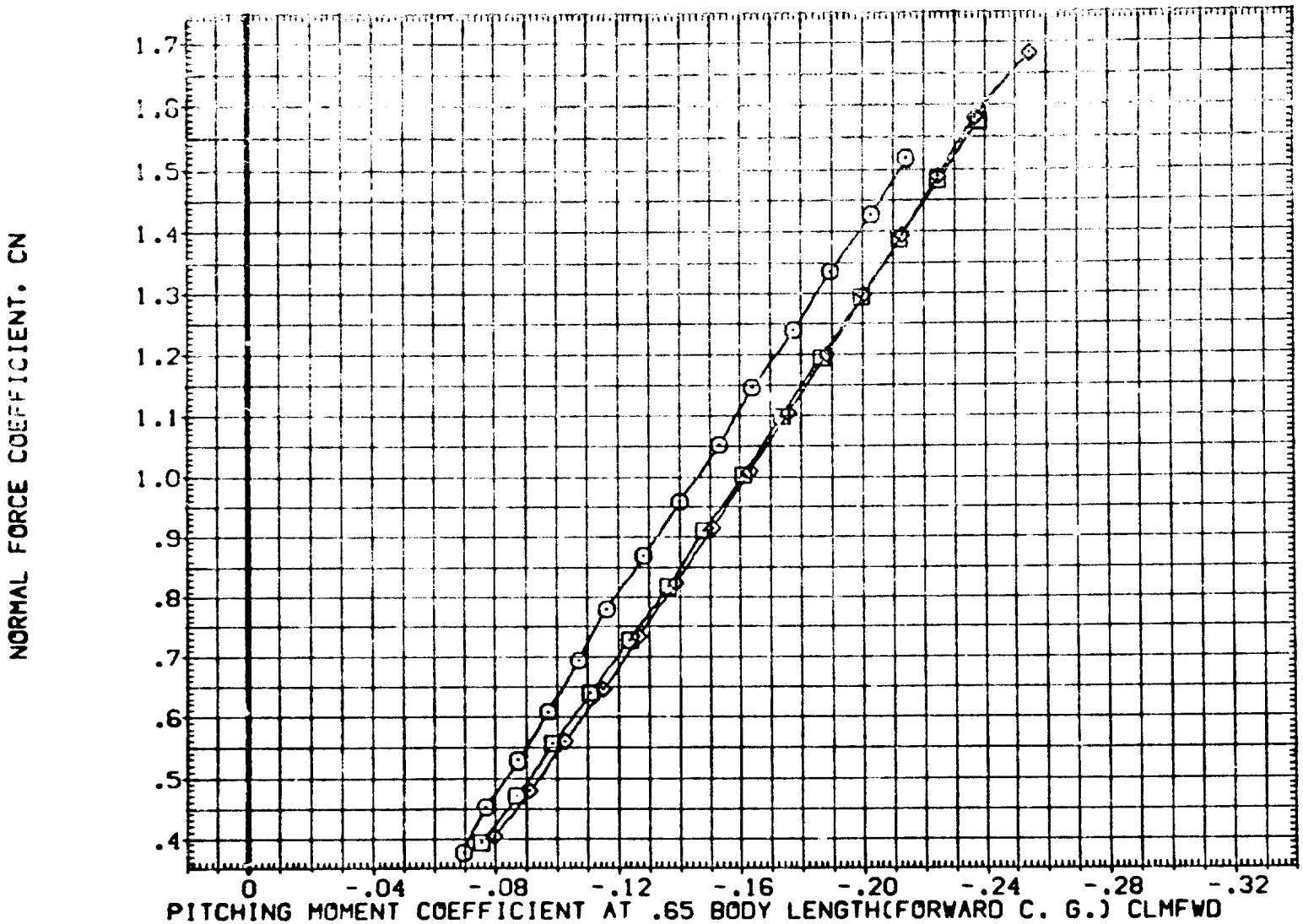


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CTV060)	▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV059)	◁▭	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116
(CTV021)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 W116

RN/L	BOFLAP	ELV-L0	ELV-L1
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6600	IN.
XMRP	1076.4900	IN.X9
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

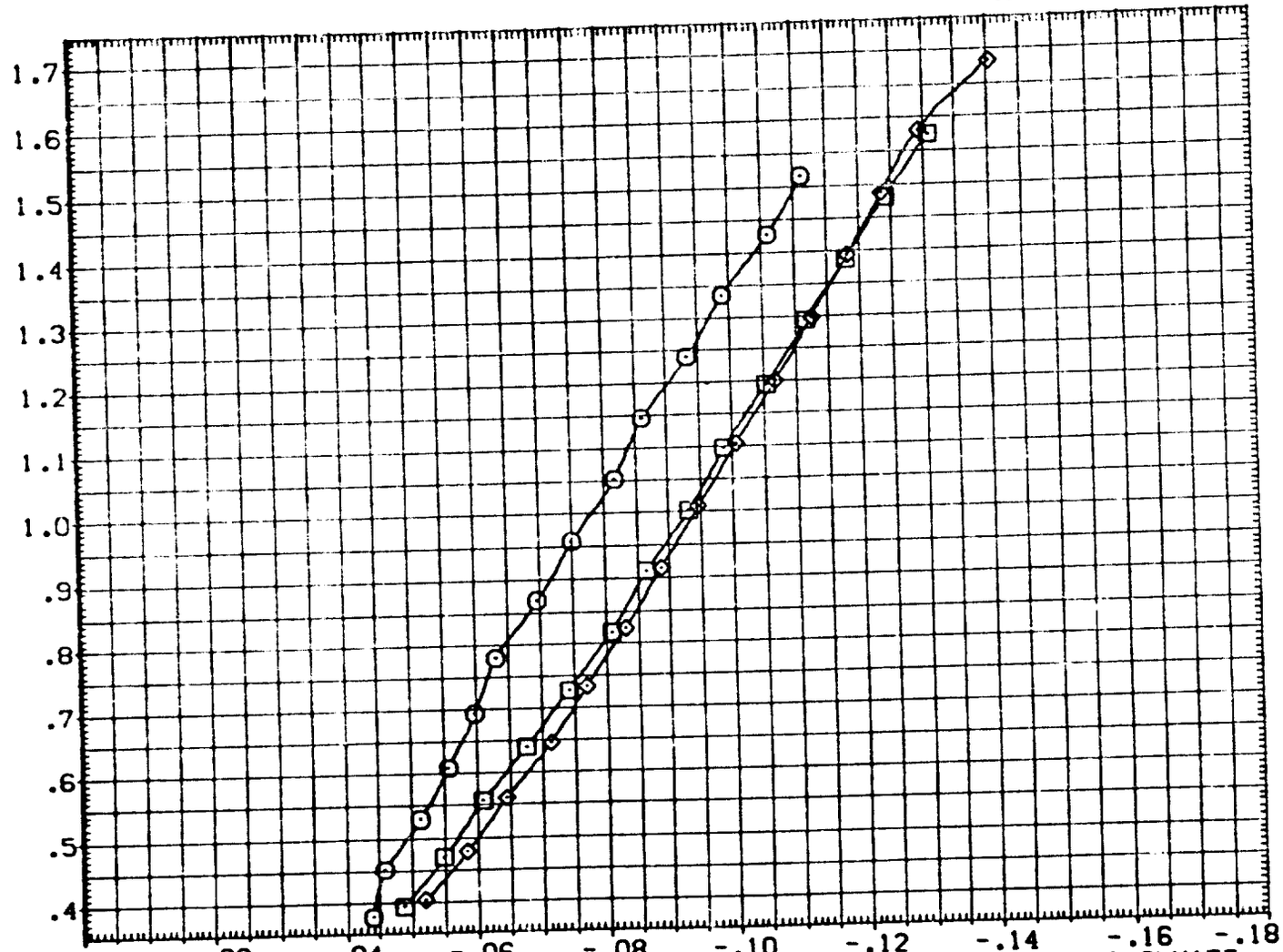


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20. BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV060) ○	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(CTV053) □	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	1.860	16.300	20.000	20.000
(CTV021) ◇	0A79 B26 C9 E43 F8 H16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6900	IN.
XMRP	1076.5600	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

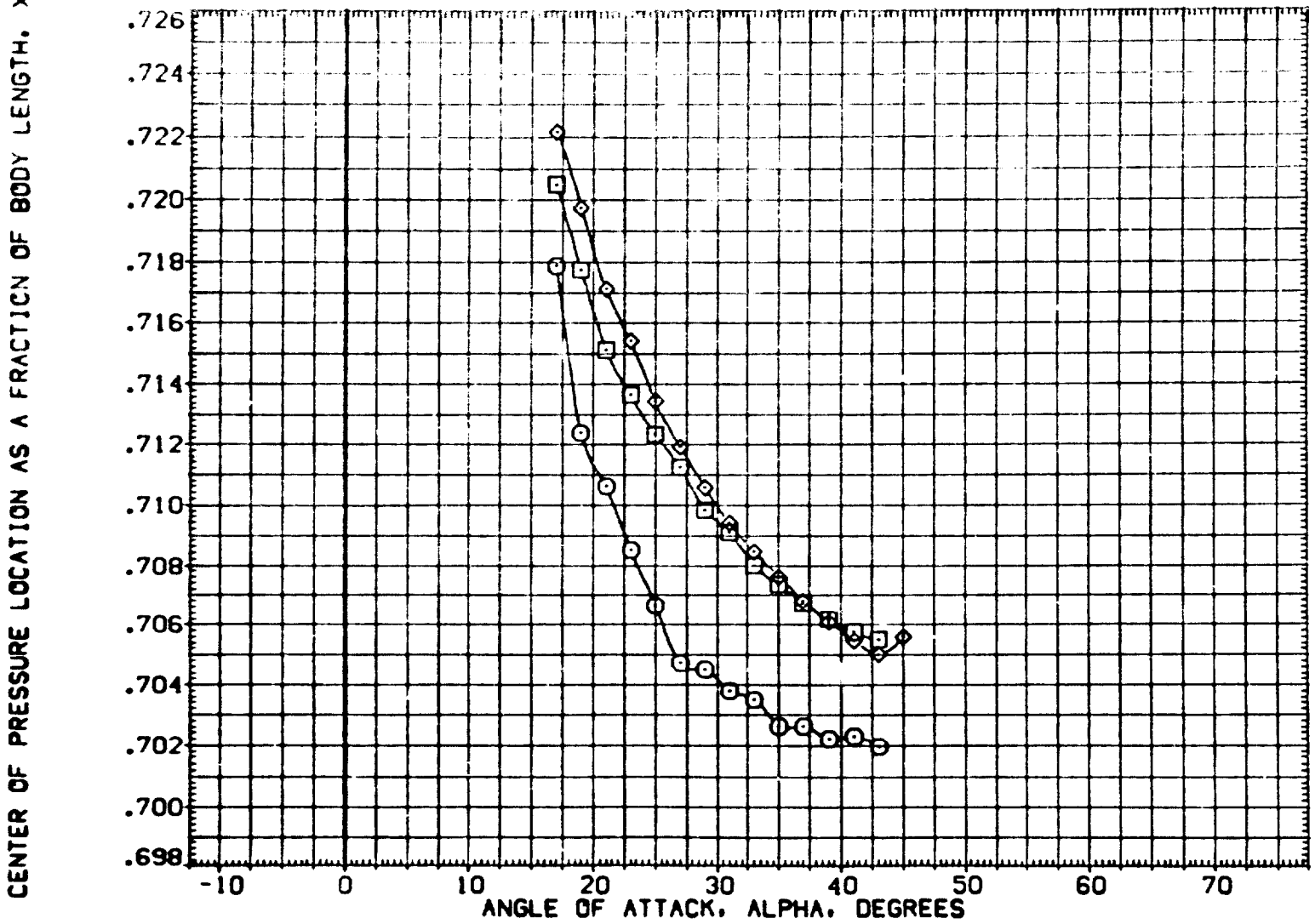


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV060)	□	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV053)	○	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116
(CTV021)	◇	OA79 B26 C9 E43 F8 H16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	806.6800	IN.
XMRP	1078.6600	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

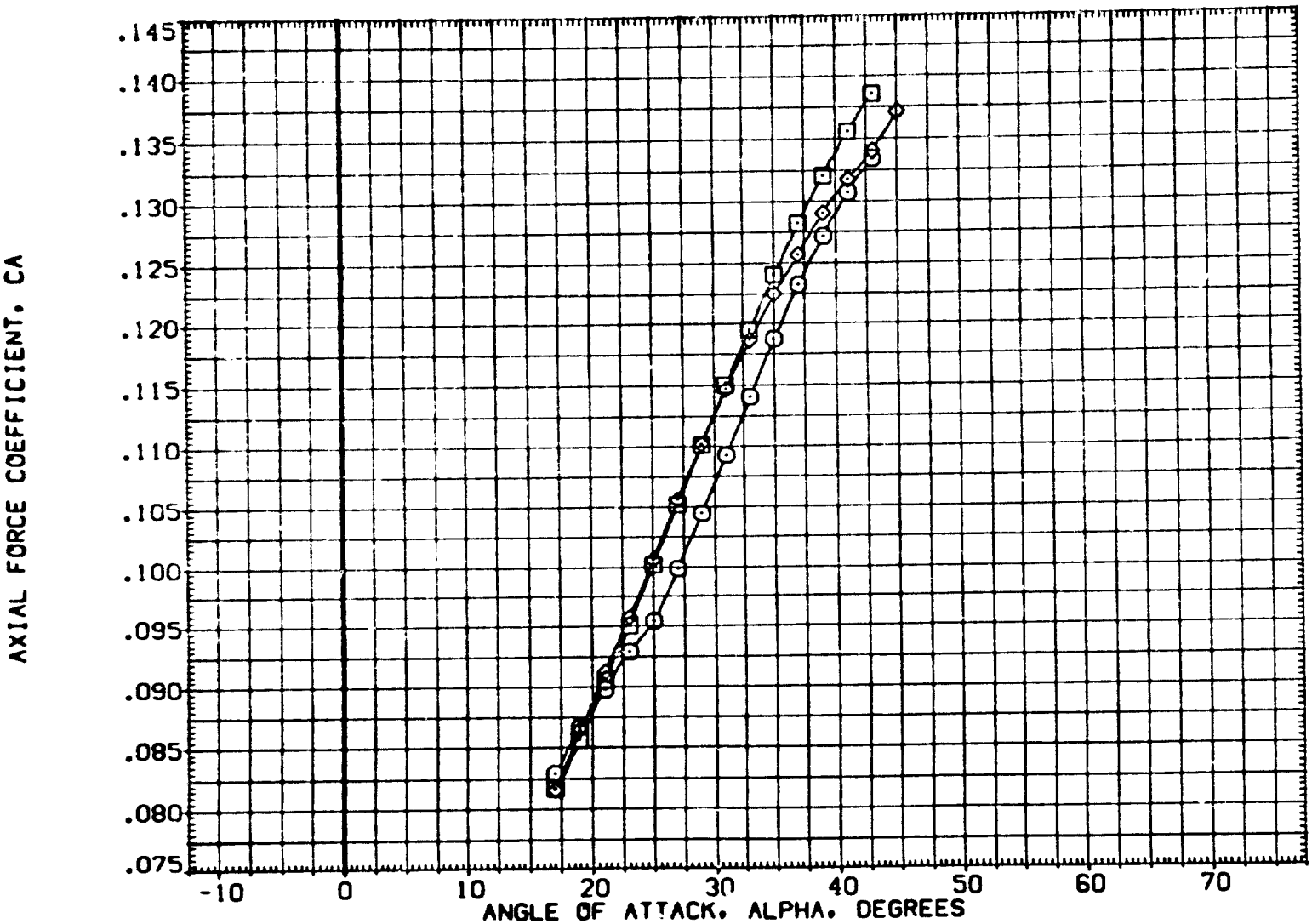


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[CTV060]	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
[CTV063]	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
[CTV221]	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.5600	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

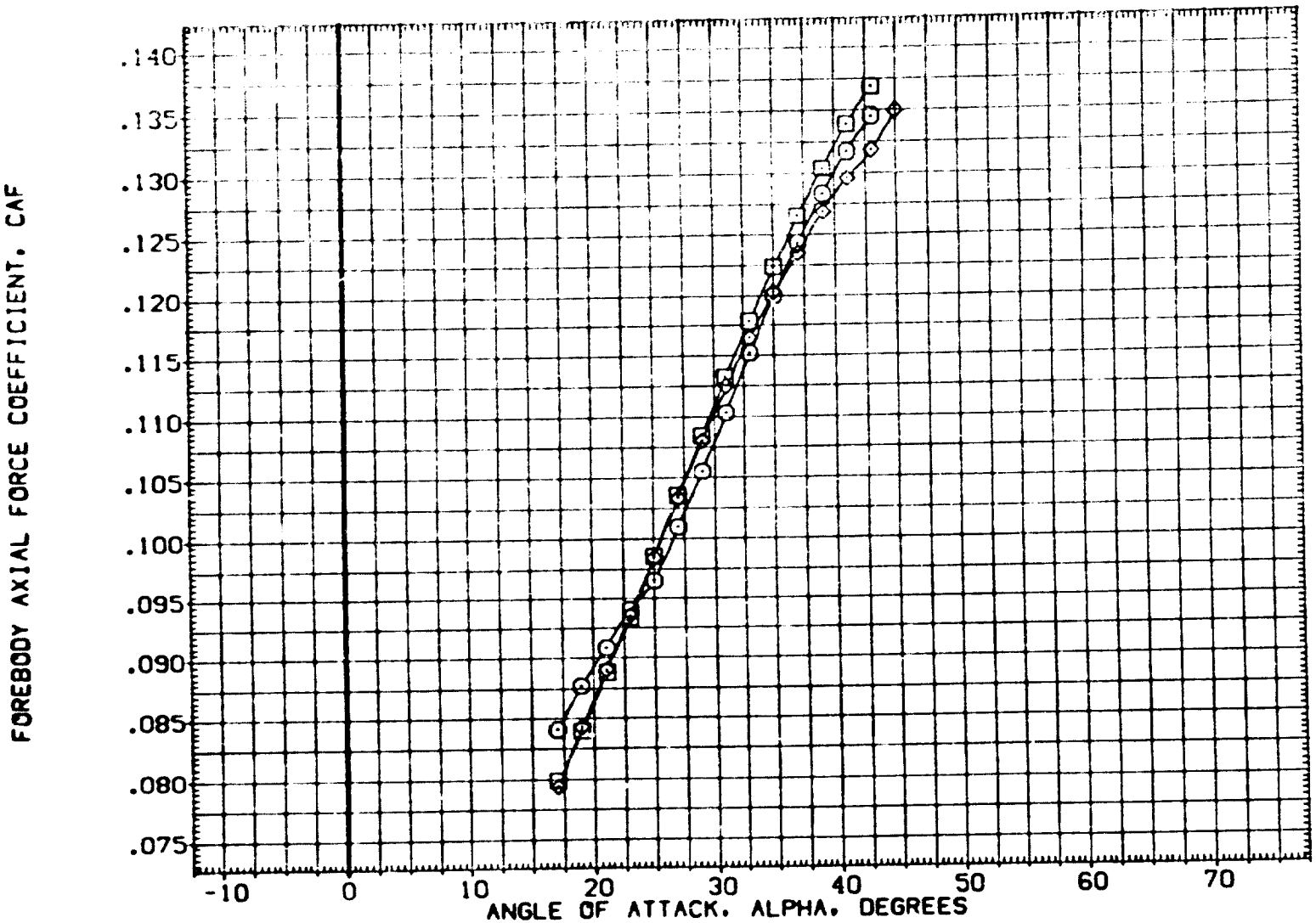


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CTV060)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV053)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116
(CTV021)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	3DFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

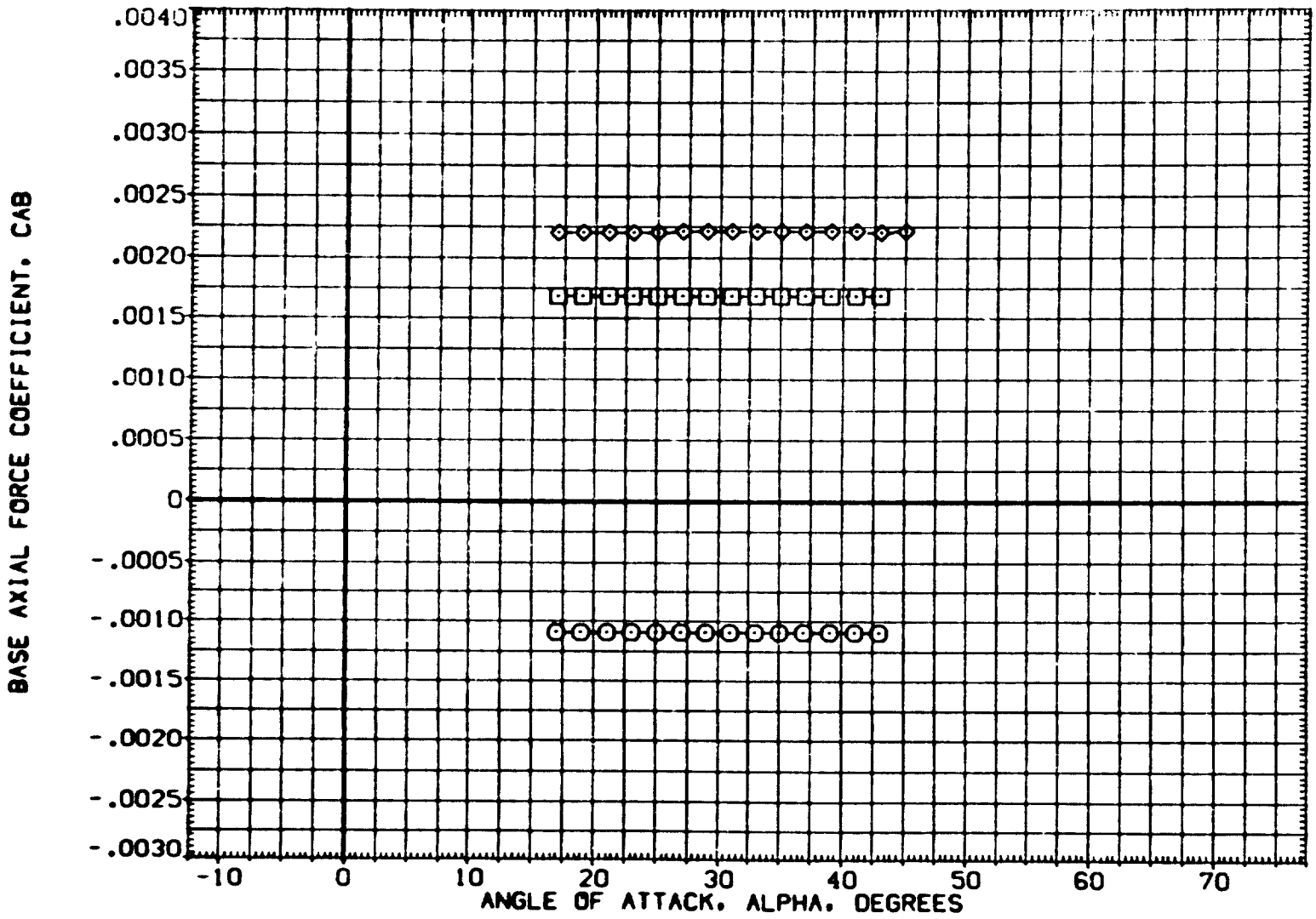


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(CTV060)	□	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(CTV05[illegible])	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	20.000	20.000
(CTV021)	◇	OA79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

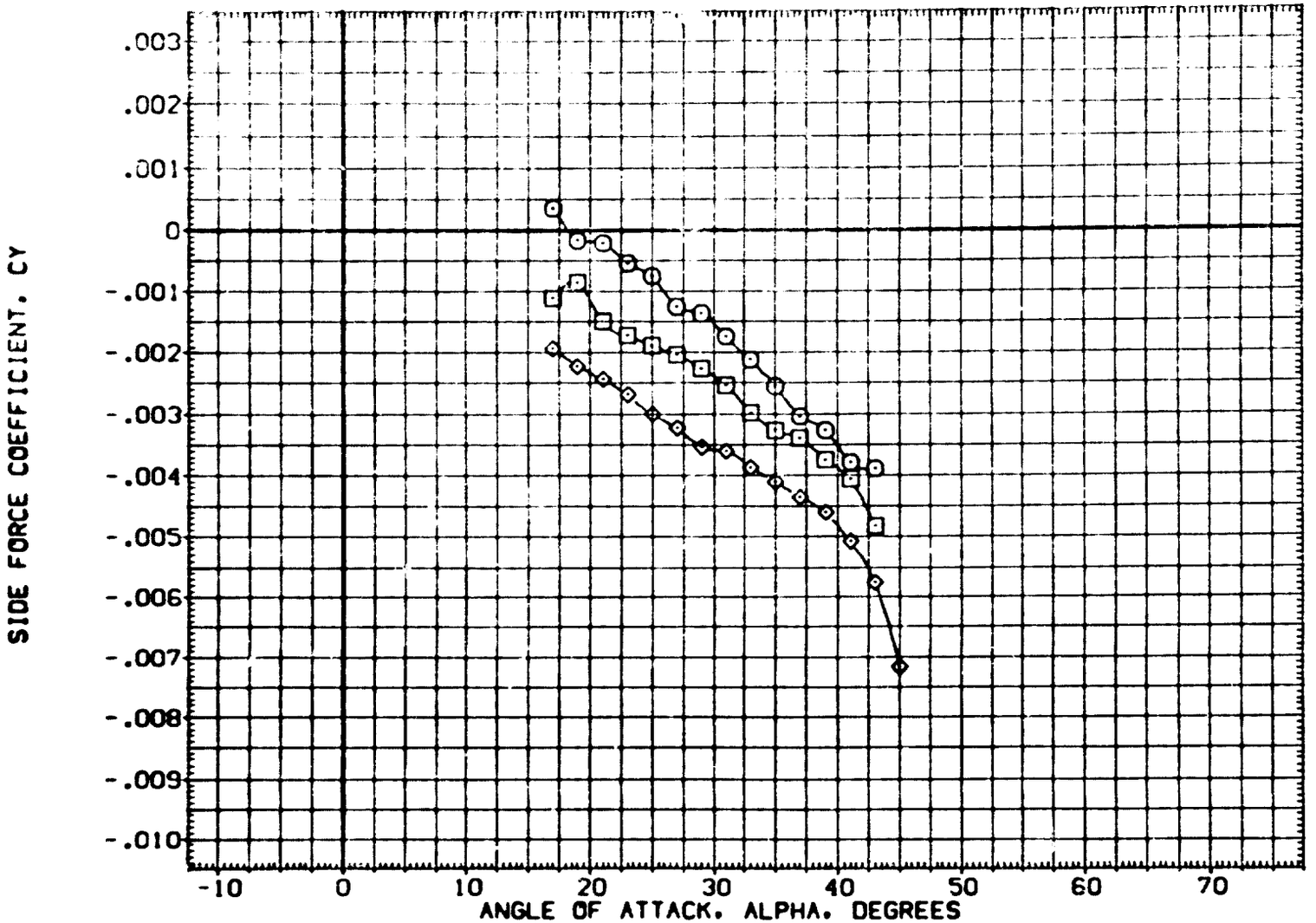


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATV060)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(ATV053)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.860	16.300	20.000	20.000
(ATV021)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X0
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

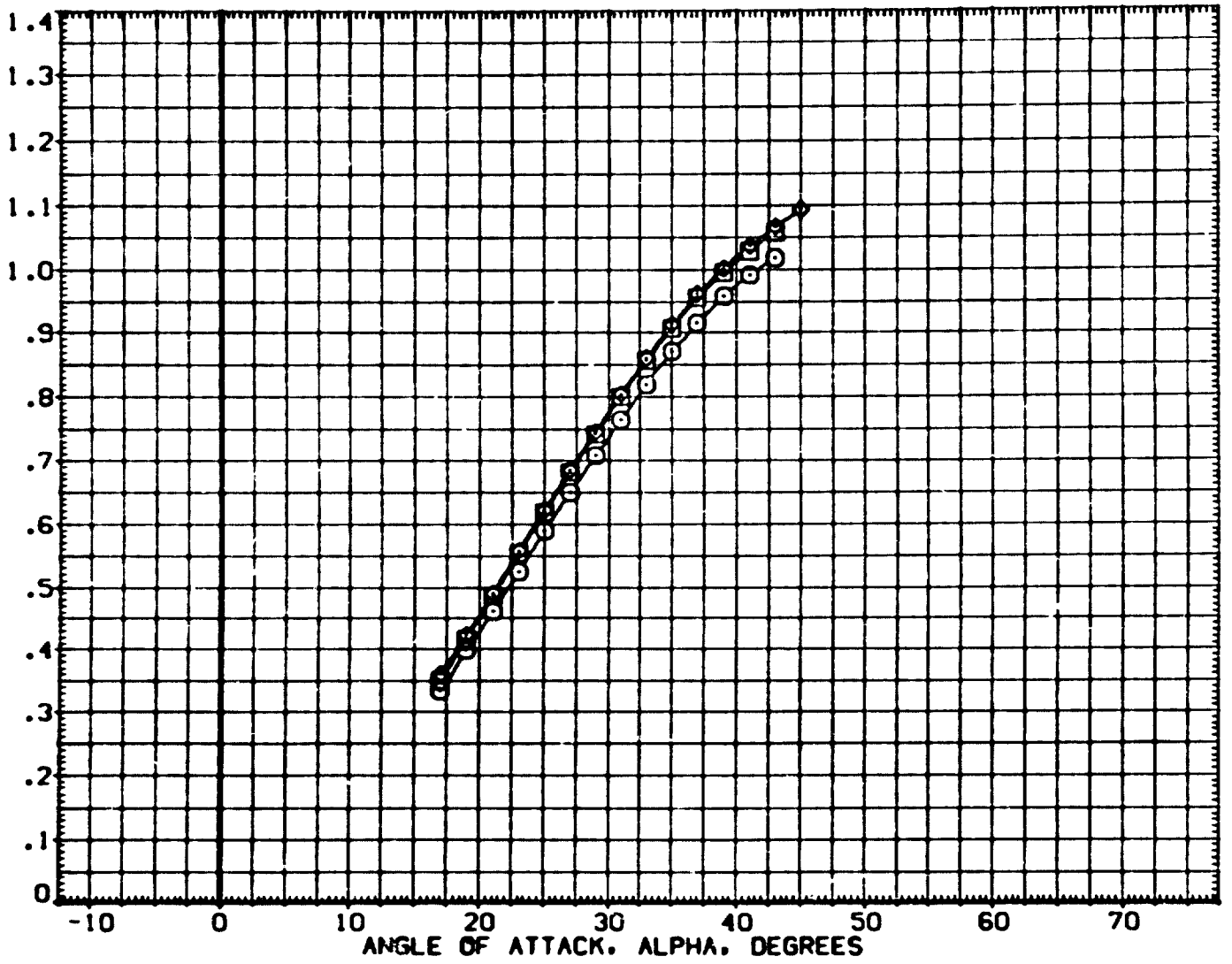


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[ATV060]	□	BA79 B26 C9 E43 F8 H16 K20 R5 V8 V116
[ATV053]	○	BA79 B26 C9 E43 F8 H16 K20 R5 V8 V116
[ATY021]	◇	BA79 B26 C9 E43 F8 H16 K20 R5 V8 V116

RNVL	BDFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN. XB
YMRP	.0000	IN. YB
ZMRP	375.0000	IN. ZB
SCALE	.0150	

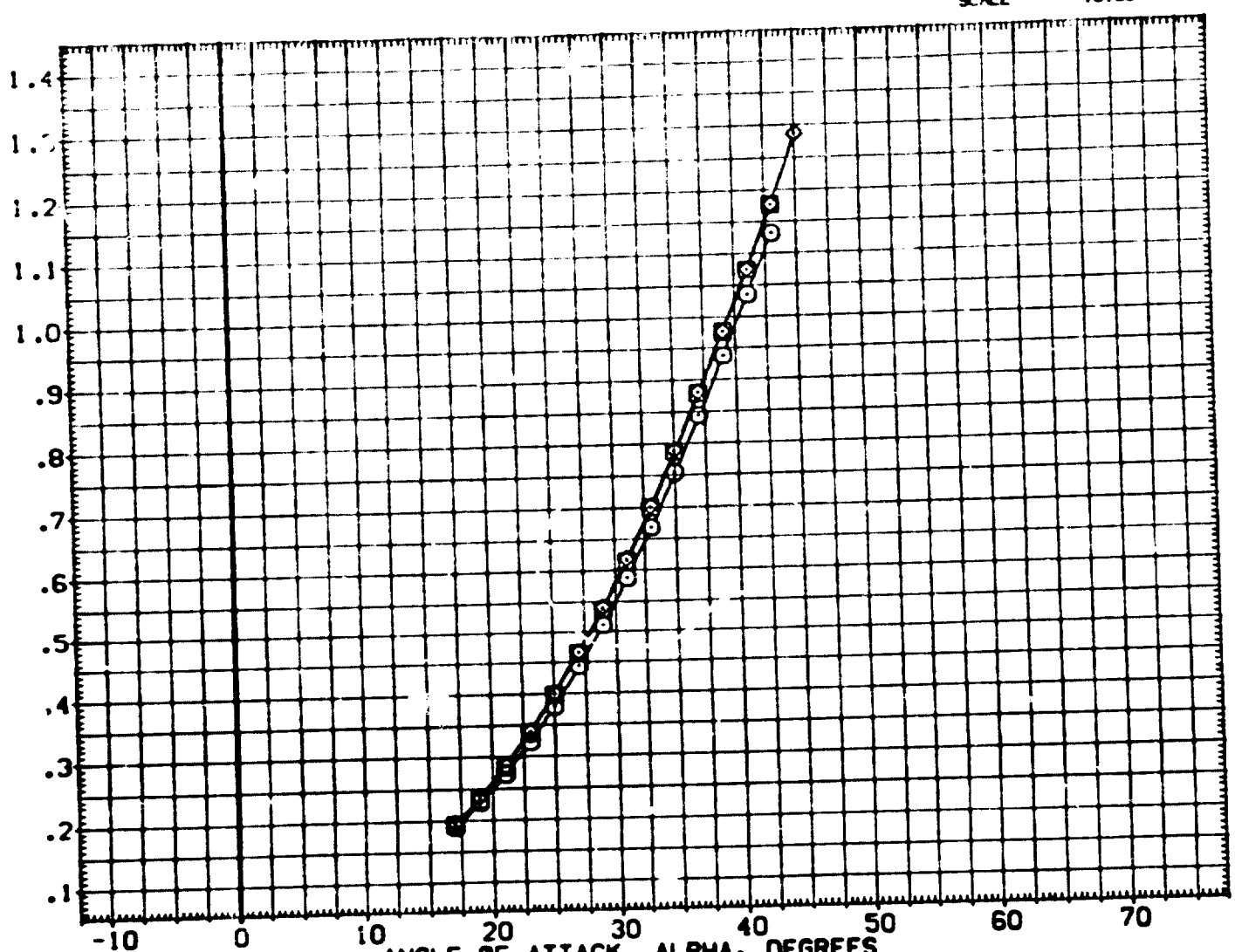


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	BDFLAP	ELV-LO	ELV-LI
(ATV080)	○	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	.500	16.300	20.000	20.000
(ATV053)	□	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	1.850	16.300	20.000	20.000
(ATV021)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116	3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.X8
YMRP	.0000	IN.Y0
ZMRP	375.0000	IN.Z0
SCALE	.0150	

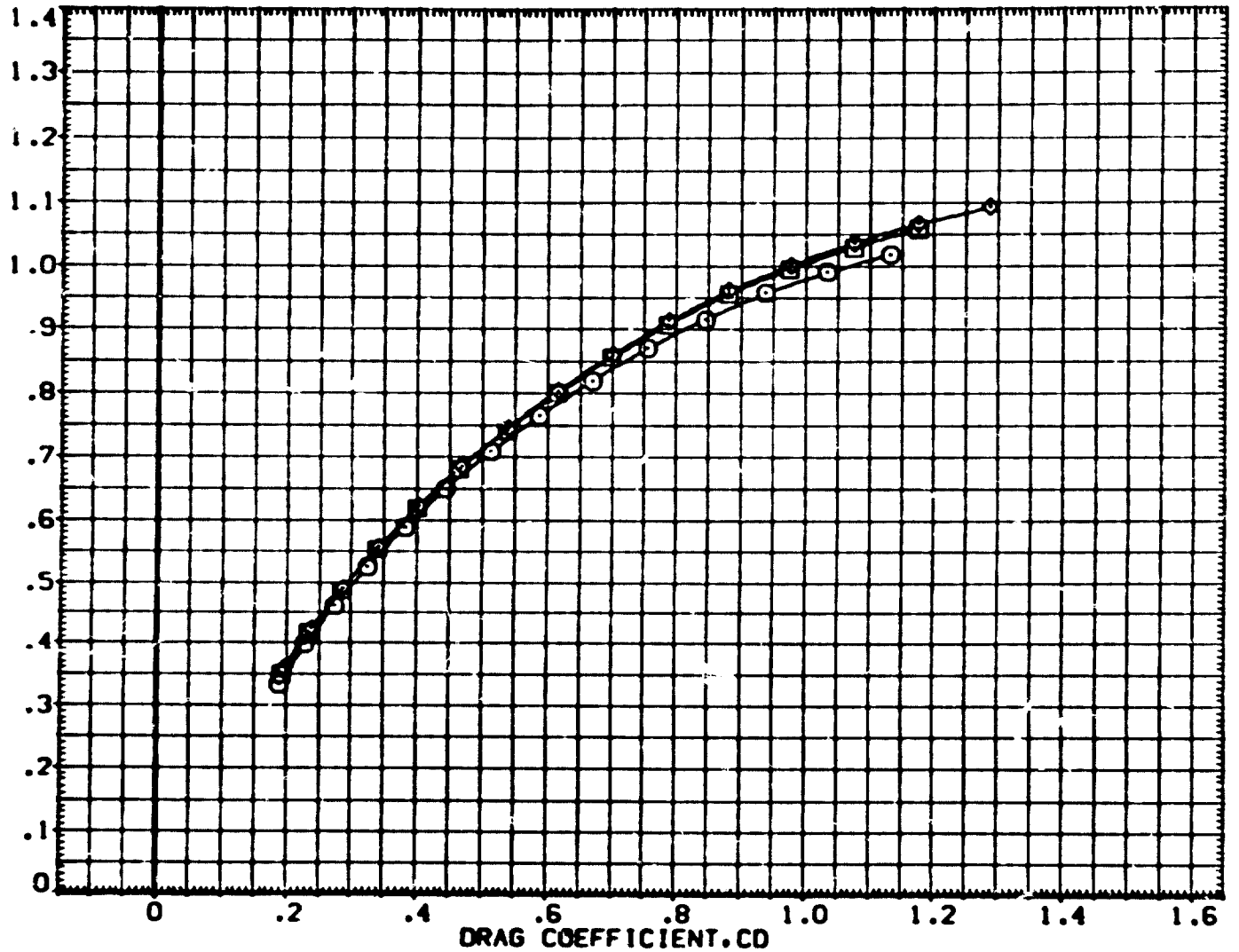


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(ATV060)	○	0A79 B26 C9 E43 F8 M[illegible] N28 R5 V8 V116
(ATV053)	□	0A79 B26 C9 E43 F8 M[illegible] N28 R5 V9 V116
(ATVC21)	◇	0A79 B26 C9 E43 F8 M16 N28 R5 V8 V116

RN/L	BDFLAP	ELV-LO	ELV-LI
.500	16.300	20.000	20.000
1.860	16.300	20.000	20.000
3.530	16.300	20.000	20.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8107	IN.
BREF	936.6800	IN.
XMRP	1076.6800	IN.XB
YMRP	.0000	IN.YB
ZMRP	375.0000	IN.ZB
SCALE	.0150	

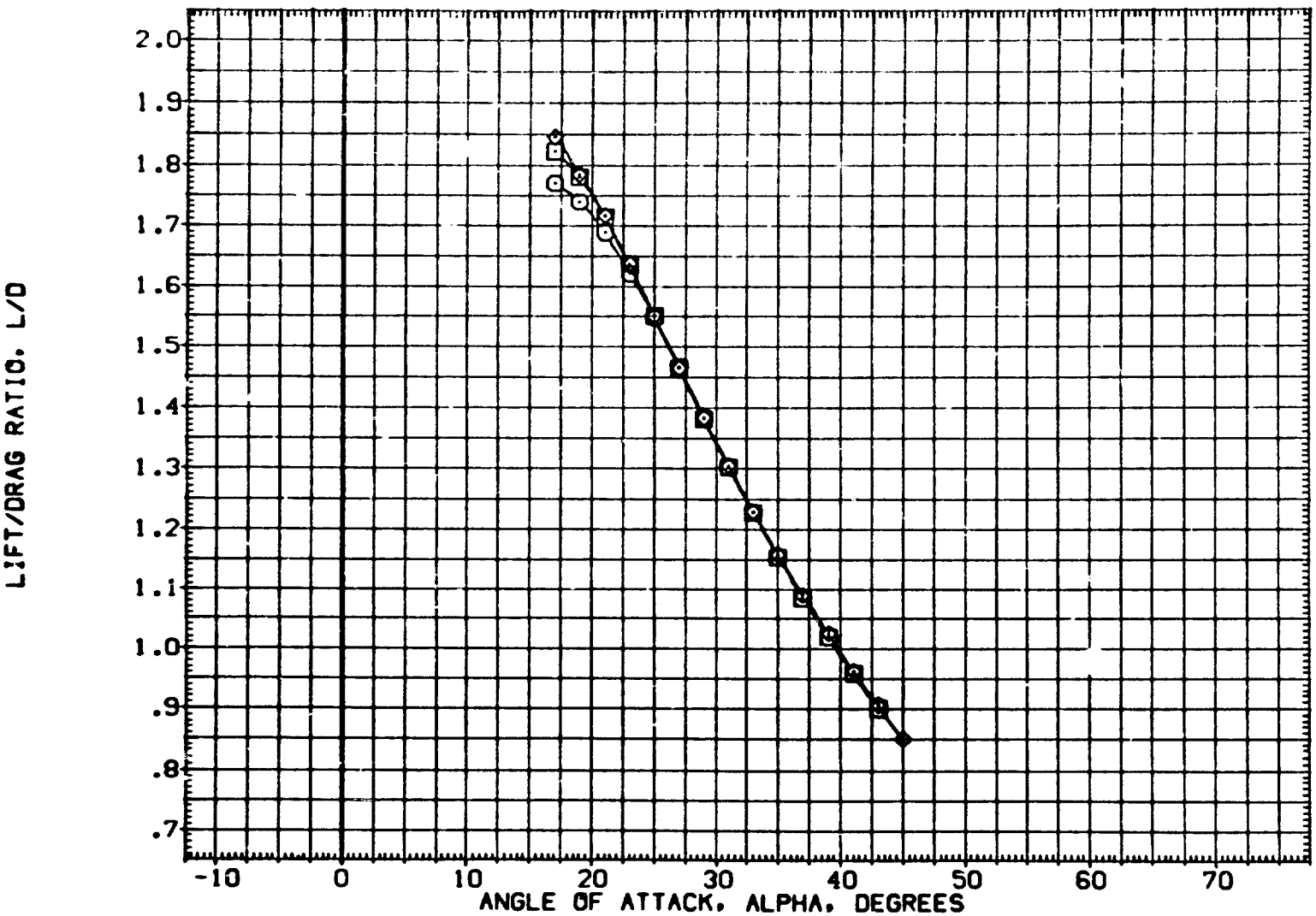


FIG. 28 REYNOLDS NUMBER EFFECTS (ELEVON = 20, BODY FLAP =16.3)

(A)MACH = 7.90

APPENDIX

TABULATED SOURCE DATA

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

OA79 B26 C9 E43 F8 M16 N26 R5 V8 W16 JRTN001) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1078.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	378.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1067 0 RN/L = 3.54 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.31011	.05553	-.00355	-.00086	.00017	-.00034	.00223	.65406	.28091	.14186
8.000	19.000	.37518	.05381	-.00291	-.00104	.00009	-.00037	.00223	.65272	.33723	.17302
8.000	21.000	.44447	.05402	-.00287	-.00147	.00011	-.00051	.00223	.65225	.39559	.20972
8.000	23.000	.51688	.05406	-.00464	-.00180	.00020	-.00055	.00223	.65319	.45467	.25172
8.000	25.000	.59352	.05413	-.00651	-.00172	.00005	-.00056	.00223	.65393	.51486	.29980
8.000	27.000	.67383	.05520	-.00999	-.00157	.00017	-.00075	.00223	.65536	.57533	.35509
8.000	29.000	.75635	.05644	-.01378	-.00184	.00022	-.00080	.00223	.65661	.63413	.41605
8.000	31.000	.84232	.05747	-.01789	-.00197	-.00003	-.00064	.00223	.65772	.69241	.48308
8.000	33.000	.92911	.05725	-.02280	-.00228	-.00006	-.00068	.00223	.65894	.74804	.55404
8.000	35.000	1.01540	.05623	-.02830	-.00271	-.00020	-.00064	.00223	.66014	.80196	.63018
8.000	37.000	1.10980	.05552	-.03496	-.00286	-.00026	-.00064	.00223	.66151	.85292	.71224
8.000	39.000	1.20090	.05494	-.04203	-.00288	-.00032	-.00067	.00223	.66280	.89842	.79822
8.000	41.000	1.29170	.05406	-.04954	-.00300	-.00029	-.00074	.00223	.66404	.93864	.88759
8.000	43.000	1.38040	.05270	-.05713	-.00311	-.00014	-.00079	.00223	.66515	.97363	.97998
8.000	45.000	1.46990	.05108	-.06515	-.00331	.00007	-.00083	.00223	.66623	1.00290	1.07520
	GRADIENT	.03541	.00007	-.00038	-.00012	-.00001	-.00003	.00000	.00001	.02927	.01973

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W416 (RTW002) (18 OCT 74)

REFERENCE DATA

SREF =	2090.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6600 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =	25.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 110/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	-5.083	.42968	.05737	-.00381	.04024	.00639	.00630	.00230	.65514	.38282	.20358
0.000	-3.059	.43357	.05598	-.00393	.02376	.00425	.00354	.00229	.65521	.38691	.20350
0.000	-1.014	.43337	.05537	-.00384	.00742	.00162	.00068	.00221	.65298	.38898	.20278
0.000	.029	.43392	.05557	-.00334	-.00114	.00028	-.00070	.00219	.65271	.38739	.20322
0.000	1.035	.43356	.05535	-.00381	-.00849	-.00096	-.00192	.00220	.65311	.38716	.20285
0.000	3.088	.43325	.05582	-.00419	-.02464	-.00351	-.00484	.00222	.65343	.39672	.20315
0.000	5.120	.43313	.05721	-.00396	-.04253	-.00574	-.00758	.00223	.65327	.38807	.20490
	GRADIENT	-.00004	-.00002	.00005	-.00786	-.00126	-.00132	-.00001	.00004	-.00002	-.00005

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W416 (RTW003) (18 OCT 74)

REFERENCE DATA

SREF =	2090.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6600 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =	30.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 111/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	-5.089	.88076	.05872	-.01819	.03076	.00621	.00771	.00165	.65769	.70921	.49131
0.000	-3.054	.88541	.05658	-.01880	.01538	.00363	.00377	.00185	.65791	.71425	.49192
0.000	-1.021	.88763	.05586	-.01898	.00097	.00080	-.00005	.00180	.65797	.71647	.49252
0.000	.005	.88839	.05542	-.01907	-.00645	-.00054	-.00206	.00176	.65799	.71732	.49257
0.000	1.024	.88857	.05531	-.01903	-.01361	-.00192	-.00395	.00175	.65798	.71734	.49250
0.000	3.065	.88662	.05578	-.01863	-.02817	-.00477	-.00770	.00177	.65783	.71554	.49207
0.000	5.096	.88414	.05758	-.01823	-.04375	-.00734	-.01157	.00171	.65768	.71243	.49244
	GRADIENT	.00321	-.00015	.00002	-.00712	-.00137	-.00188	-.00001	-.00001	.00023	.00002

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 (RTW034) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0191		

PARAMETRIC DATA

ALPHA =	20.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	-10.000
RN/L =	3.530		

RUN NO. 112/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	COF
8.000	-5.106	.42963	.05617	-.00383	.03921	.00692	.00608	.00233	.65315	.38305	.20251
8.000	-3.100	.42992	.05518	-.00367	.02331	.00456	.00342	.00234	.65302	.38383	.20137
8.000	-1.049	.43143	.05552	-.00272	.00634	.00213	.00051	.00225	.65220	.38514	.20214
8.000	-.026	.43259	.05540	-.00276	-.00148	.00089	-.00084	.00222	.65222	.38618	.20264
8.000	1.003	.43231	.05489	-.00342	-.00900	-.00064	-.00200	.00220	.65279	.38614	.20198
8.000	3.058	.43190	.05554	-.00308	-.02520	-.00332	-.00472	.00225	.65250	.38559	.20234
8.000	5.086	.43140	.05723	-.00193	-.04322	-.00558	-.00771	.00228	.65193	.38447	.20387
	GRADIENT	.00033	.00003	.00005	-.00784	-.00129	-.00131	-.00002	-.00005	.00001	.00013

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 (RTW035) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0191		

PARAMETRIC DATA

ALPHA =	30.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	-10.000
RN/L =	3.530		

RUN NO. 113/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	COF
8.000	-5.009	.86103	.05631	-.01815	.02981	.00651	.00763	.00184	.65767	.71057	.48952
8.000	-3.014	.86518	.05504	-.01846	.01421	.00380	.00380	.00184	.65777	.71477	.49055
8.000	-1.011	.86726	.05476	-.01837	.00017	.00105	-.00019	.00183	.65771	.71675	.49140
8.000	.009	.86775	.05475	-.01831	-.00702	-.00031	-.00213	.00180	.65768	.71712	.49165
8.000	1.037	.86786	.05478	-.01812	-.01420	-.00170	-.00404	.00179	.65780	.71699	.49169
8.000	3.068	.86584	.05527	-.01757	-.02858	-.00450	-.00779	.00179	.65738	.71515	.49121
8.000	5.099	.86268	.05631	-.01671	-.04406	-.00710	-.01166	.00176	.65704	.71174	.49052
	GRADIENT	.00012	.00004	.00014	-.00703	-.00136	-.00187	-.00001	-.00006	.00007	.00011

OA79 B26 C9 E43 F8 N28 R5 V8 W16 (RTV006) (18 OCT 74)

REFERENCE DATA

SREF	=	2693.0000 SQ.FT.	XMRP	=	1078.6800 IN.XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.ZO
SCALE	=	.0191			

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 114/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	17.000	.32391	.05247	-.00352	-.00085	.00010	-.00044	.00181	.65388	.29442	.14488
0.990	19.000	.38762	.05316	-.00367	-.00118	.00001	-.00048	.00181	.65337	.34920	.17648
0.990	21.000	.45674	.05378	-.00399	-.00147	-.00007	-.00050	.00181	.65311	.40713	.21389
0.990	23.000	.53044	.05445	-.00430	-.00187	-.00010	-.00054	.00181	.65337	.46700	.25738
0.990	25.000	.60598	.05514	-.00425	-.00173	-.00011	-.00061	.00181	.65429	.52589	.30807
0.990	27.000	.68572	.05578	-.00995	-.00203	-.00008	-.00069	.00181	.65525	.58565	.36101
0.990	29.000	.76843	.05623	-.01361	-.00231	-.00006	-.00078	.00181	.65643	.64482	.42172
0.990	31.000	.85318	.05663	-.01830	-.00243	-.00008	-.00086	.00181	.65781	.70215	.48797
0.990	33.000	.94131	.05700	-.02395	-.00269	-.00008	-.00087	.00181	.65928	.75841	.56048
0.990	35.000	1.03170	.05714	-.03034	-.00286	-.00010	-.00087	.00181	.66082	.81175	.63815
0.990	37.000	1.12170	.05686	-.03698	-.00309	-.00027	-.00089	.00181	.66205	.86165	.72049
0.990	39.000	1.21210	.05621	-.04402	-.00320	-.00036	-.00093	.00181	.66328	.90661	.80649
0.990	41.000	1.30190	.05525	-.05140	-.00335	-.00036	-.00100	.00181	.66445	.94630	.89582
0.990	43.000	1.39190	.05418	-.05913	-.00369	-.00031	-.00104	.00181	.66556	.98071	.98860
0.990	45.000	1.47990	.05271	-.06719	-.00401	-.00029	-.00112	.00181	.66663	1.00920	1.08375
	GRADIENT	.03535	.00033	-.00044	-.00011	-.00003	-.00002	.00000	.00004	.02904	.02017

OA79 B26 C9 E43 F8 N28 R5 V8 W16 (RTW007) (18 OCT 74)

REFERENCE DATA

SREF = 2893.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0191

PARAMETRIC DATA

ALPHA = 20.000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPOBRK = 55.000 RUDDER = .000
RN/L = 3.550

RUN NO. 115/ 0 RN/L = 3.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	-5.111	.45931	.05383	-.01315	.03518	.00874	.00590	.00225	.65252	.38912	.20178
0.990	-3.075	.45655	.05294	-.01326	.02049	.00580	.00340	.00225	.65263	.39062	.20154
0.990	-1.039	.45604	.05290	-.01319	.00602	.00227	.00079	.00225	.65257	.39039	.20132
0.990	-.002	.45683	.05287	-.01333	-.00019	.00035	-.00039	.00225	.65268	.39103	.20178
0.990	1.059	.45465	.05282	-.01351	-.00685	-.00166	-.00156	.00225	.65285	.38918	.20067
0.990	3.082	.45517	.05272	-.01375	-.02105	-.00487	-.00418	.00223	.65303	.38953	.20104
0.990	5.139	.45325	.05338	-.01356	-.03643	-.00824	-.00666	.00224	.65290	.38750	.20088
	GRADIENT	-.00024	-.00003	-.00018	-.00667	-.00172	-.00122	-.00000	.00007	-.00022	-.00011

OA79 B26 C9 E43 F8 N28 R5 V8 W16 (RTW008) (18 OCT 74)

REFERENCE DATA

SREF = 2893.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0191

PARAMETRIC DATA

ALPHA = 30.000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPOBRK = 55.000 RUDDER = .000
RN/L = 3.550

RUN NO. 116/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	-5.098	.86497	.03937	-.01865	.02928	.00654	.00784	.00189	.65785	.71468	.49037
0.990	-3.059	.86773	.03836	-.01873	.01900	.00343	.00394	.00184	.65786	.71737	.49126
0.990	-1.013	.86936	.03811	-.01888	.00106	.00058	.00002	.00181	.65790	.71882	.49194
0.990	.025	.87039	.03805	-.01906	-.00655	-.00066	-.00211	.00176	.65798	.71946	.49229
0.990	1.031	.86876	.03804	-.01904	-.01311	-.00254	-.00401	.00173	.65797	.71914	.49214
0.990	3.069	.86828	.03823	-.01891	-.02084	-.00515	-.00781	.00174	.65793	.71773	.49163
0.990	5.098	.86522	.03851	-.01851	-.04104	-.00823	-.01151	.00176	.65779	.71491	.49038
	GRADIENT	.00113	-.00002	-.00003	-.00684	-.00139	-.00192	-.00002	.00001	.00007	.00006

CA79 B26 C9 E43 F8 W/ N28 R5 V8 W116 (RTW039) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 3.530

RUN NO. 117/ 0 RN/L = 3.51 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.31200	.05345	-.00463	-.00201	.00022	-.00048	.00226	.65530	.28340	.14254
0.000	19.000	.37757	.05383	-.00410	-.00224	.00017	-.00053	.00229	.65386	.33947	.17382
0.000	21.000	.44730	.05446	-.00434	-.00241	.00010	-.00057	.00229	.65345	.39807	.21114
0.000	23.000	.52014	.05496	-.00514	-.00278	.00011	-.00067	.00229	.65352	.45732	.25383
0.000	25.000	.59576	.05557	-.00694	-.00274	.00003	-.00068	.00229	.65418	.51545	.30214
0.000	27.000	.67577	.05588	-.00971	-.00300	.00005	-.00076	.00229	.65518	.57675	.35659
0.000	29.000	.75855	.05650	-.01309	-.00315	.00008	-.00088	.00229	.65625	.63605	.41716
0.000	31.000	.84345	.05697	-.01739	-.00315	-.00007	-.00090	.00229	.65749	.69364	.48325
0.000	33.000	.93189	.05735	-.02285	-.00338	-.00009	-.00089	.00229	.65893	.75031	.55564
0.000	35.000	1.02250	.05735	-.02890	-.00370	-.00008	-.00094	.00229	.66031	.80472	.63348
0.000	37.000	1.11200	.05735	-.03561	-.00397	-.00007	-.00100	.00229	.66169	.85439	.71525
0.000	39.000	1.20590	.05665	-.04262	-.00416	-.00020	-.00102	.00229	.66295	.89955	.80159
0.000	41.000	1.29370	.05617	-.05015	-.00429	-.00029	-.00107	.00229	.66418	.93953	.89114
0.000	43.000	1.38300	.05518	-.05794	-.00422	-.00029	-.00111	.00229	.66533	.97445	.98400
0.000	45.000	1.47290	.05379	-.06555	-.00466	-.00018	-.00116	.00229	.66630	1.00320	1.07930
	GRADIENT	.03544	.00127	-.00128	-.00010	-.00002	-.00003	.00000	-.00013	.02920	.01996

OA79 B26 C9 E43 F8 H7 N20 R5 V8 W16 (RTW010) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	674.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

ALPHA =	30.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1187 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	-5.107	.43589	.05573	-.00378	.03900	.00746	.00640	.00231	.65307	.38979	.20381
0.990	-3.067	.43616	.05467	-.00355	.02271	.00482	.00373	.00230	.65287	.38988	.20303
0.990	-1.025	.43656	.05456	-.00335	.00636	.00213	.00087	.00222	.65271	.39025	.20314
0.990	-.015	.43726	.05454	-.00349	-.00102	.00152	-.00147	.00222	.65282	.39068	.20343
0.990	1.035	.43631	.05451	-.00359	-.00837	-.00116	-.00172	.00222	.65290	.39007	.20295
0.990	3.084	.43632	.05456	-.00393	-.02491	-.00379	-.00459	.00225	.65320	.39001	.20309
0.990	5.103	.43752	.05531	-.00583	-.04207	-.00650	-.00734	.00226	.65310	.39071	.20435
	GRADIENT	.00001	-.00002	-.00017	-.00768	-.00142	-.00134	-.00001	.00006	.00001	-.00000

OA79 B26 C9 E43 F8 H7 N20 R5 V8 W16 (RTW011) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	674.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

ALPHA =	20.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1197 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	-5.093	.66902	.05565	-.01821	.02972	.00829	.00770	.00181	.65765	.71502	.49150
0.990	-3.024	.66863	.05458	-.01693	.01403	.00398	.00380	.00180	.65775	.71476	.49257
0.990	-1.021	.67104	.05432	-.01876	-.00006	.00087	-.00008	.00178	.65784	.72012	.49308
0.990	.015	.67131	.05405	-.01896	-.00755	-.00048	- 10212	.00179	.65792	.72047	.49297
0.990	1.049	.67101	.05403	-.01896	-.01505	-.00185	-.00412	.00174	.65792	.72022	.49280
0.990	3.075	.66830	.05440	-.01843	-.02942	-.00465	-.00778	.00172	.65772	.71779	.49177
0.990	5.127	.66561	.05488	-.01829	-.04498	-.00749	-.01175	.00171	.65769	.71515	.49076
	GRADIENT	-.00019	-.00014	.00000	-.00714	-.00135	-.00189	-.00001	-.00000	-.00014	-.00013

OA79 B26 C0 E43 F0 M16 N00 R5 V0 W16 (RTV012) (10 OCT 74)

REFERENCE DATA

SREF =	2001.0000 SQ.FT.	XMRP =	1078.6800 IN.RO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.019		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	-11.700
SPOBAR =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1201 0 RN/L = 3.54 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	17.990	.93083	.05436	.00460	-.00202	.00013	-.00049	.00217	.64465	.90042	.14890
0.990	19.990	.98916	.05453	.00558	-.00218	.00002	-.00053	.00217	.64469	.95389	.17953
0.990	21.990	.45943	.05458	.00590	-.00235	-.00006	-.00056	.00217	.64564	.40935	.21580
0.990	23.990	.90031	.05490	.00355	-.00239	-.00018	-.00051	.00217	.64743	.46689	.25782
0.990	25.990	.80512	.05536	.00199	-.00235	-.00025	-.00057	.00217	.64869	.52903	.30591
0.990	27.990	.60324	.05599	.00025	-.00241	-.00034	-.00065	.00217	.64970	.58335	.36037
0.990	29.990	.76465	.05633	-.00195	-.00260	-.00025	-.00083	.00217	.65084	.64147	.41998
0.990	31.990	.84667	.05645	-.00526	-.00271	-.00024	-.00095	.00217	.65219	.69666	.48445
0.990	33.990	.93293	.05658	-.00929	-.00297	-.00018	-.00107	.00217	.65354	.75119	.55505
0.990	35.990	1.02780	.05699	-.01402	-.00321	-.00013	-.00114	.00217	.65497	.80465	.63148
0.990	37.990	1.11923	.05562	-.01953	-.00361	-.00009	-.00117	.00217	.65639	.85321	.71258
0.990	39.990	1.21360	.05528	-.02547	-.00371	-.00020	-.00109	.00217	.65772	.89823	.79890
0.990	41.990	1.29990	.05458	-.03176	-.00393	-.00035	-.00114	.00217	.65898	.93791	.88737
0.990	43.990	1.37891	.05315	-.03824	-.00403	-.00032	-.00120	.00217	.66013	.97196	.97901
0.990	45.990	1.46690	.05166	-.04462	-.00427	-.00023	-.00124	.00217	.66111	1.00070	1.07380
	GRADIENT	.01491	.00310	-.00137	-.00014	-.00005	-.00001	.00000	.00154	.02811	.01962

CAPS B26 C9 E43 F8 H16 H28 R5 V8 W16 (RTAV313) (18 OCT 74)

REFERENCE DATA

SREF =	7000.0000 SQ.FT.	XMRP =	1076.8800 IN.XQ
BREF =	474.8100 IN.	YMRP =	.0000 IN.YQ
CREF =	938.6400 IN.	ZMRP =	375.0000 IN.ZQ
SCALE =	.0159		

PARAMETRIC DATA

BETA =	.0000	ELV-LO =	.0000
ELV-LI =	.0000	ELV-RI =	.0000
ELV-RO =	.0000	BDFLAP =	10.0000
SPOBAR =	55.0000	RUDDER =	.0000
RN/L =	3.5500		

RUN NO. 1214 0 RN/L = 3.55 GRADIENT INTERVAL = 15.0000 25.0000

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.0000	17.0000	.32555	.03781	-.01558	-.00398	.00013	-.00190	.01216	.67177	.29443	.19047
0.0000	19.0000	.36551	.04003	-.02288	-.00126	.00003	-.00026	.01216	.67117	.33455	.18451
0.0000	21.0000	.46717	.04072	-.02852	-.00144	-.00002	-.00057	.01216	.67255	.41458	.22411
0.0000	23.0000	.54659	.04196	-.03446	-.00148	-.00022	-.00049	.01216	.67310	.47875	.27052
0.0000	25.0000	.62979	.04370	-.04042	-.00171	-.00027	-.00057	.01216	.67365	.54051	.32233
0.0000	27.0000	.71918	.04549	-.04624	-.00186	-.00029	-.00065	.01216	.67393	.61236	.38027
0.0000	29.0000	.80397	.04731	-.05257	-.00215	-.00021	-.00044	.01216	.67427	.66193	.44353
0.0000	31.0000	.88143	.04815	-.05929	-.00224	-.00016	-.00097	.01216	.67464	.72044	.51239
0.0000	33.0000	.97579	.04936	-.06672	-.00258	-.00038	-.00112	.01216	.67520	.77656	.58665
0.0000	35.0000	1.06293	.04985	-.07468	-.00283	-.00031	-.00123	.01216	.67577	.83080	.66687
0.0000	37.0000	1.15539	.05145	-.08335	-.00314	.00035	-.00129	.01216	.67646	.88025	.75151
0.0000	39.0000	1.24703	.05139	-.09253	-.00325	-.00011	-.00122	.01216	.67723	.92933	.84055
0.0000	41.0000	1.34993	.05154	-.10158	-.00345	-.00025	-.00121	.01216	.67776	.96435	.93309
0.0000	43.0000	1.45160	.05139	-.11091	-.00375	-.00025	-.00125	.01216	.67822	.99761	1.02795
0.0000	45.0000	1.52580	.05103	-.11927	-.00393	-.00018	-.00132	.01216	.67877	1.02990	1.12595
	GRADIENT	.03761	.00073	-.01268	-.00018	-.00005	.00000	.00000	.00028	.03082	.02149

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 (RTW014) (10 OCT 74)

REFERENCE DATA

SREF = 2690.7000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = -20.000
ELV-RO = -20.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 3.550

RUN NO. 122/ 0 RN/L = 3.56 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.30525	.03497	.00276	-.00055	-.00003	.00221	.00215	.64690	.27393	.14123
0.900	19.000	.36675	.03515	.00424	-.00066	-.00017	.00258	.00215	.64562	.32079	.17154
0.900	21.000	.43652	.03500	.00513	-.00066	-.00035	.00311	.00215	.64595	.38763	.20771
0.900	23.000	.50755	.03566	.00454	-.00151	-.00064	.00370	.00215	.64630	.44527	.24947
0.900	25.000	.58233	.03588	.00425	-.00129	-.00085	.00420	.00215	.64721	.50416	.29675
0.900	27.000	.65876	.03662	.00295	-.00020	-.00101	.00472	.00215	.64825	.55125	.34952
0.900	29.000	.73938	.03696	.00129	-.00016	-.00104	.00519	.00215	.64926	.61080	.40813
0.900	31.000	.82194	.03735	-.00131	-.00116	-.00119	.00572	.00215	.65031	.67517	.47221
0.900	33.000	.90651	.03687	-.00377	-.00119	-.00121	.00625	.00215	.65144	.72920	.54141
0.900	35.000	.99309	.03634	-.00779	-.00122	-.00135	.00688	.00215	.65280	.78171	.61539
0.900	37.000	1.08191	.03606	-.01293	-.00139	-.00151	.00755	.00215	.65417	.83002	.68566
0.900	39.000	1.17141	.03577	-.01777	-.00140	-.00192	.00829	.00215	.65591	.87446	.77589
0.900	41.000	1.25861	.03478	-.02310	-.00142	-.00222	.00890	.00215	.65667	.91393	.86705
0.900	45.000	1.34591	.03336	-.02891	-.00149	-.00243	.00944	.00215	.65771	.94763	.95664
0.900	49.000	1.42197	.03166	-.03485	-.00156	-.00256	.009[illegible]	.00215	.65888	.97573	1.04800
	GRADIENT	.03494	.00012	.00116	.00003	-.00011	.00126	.00000	.00012	.02005	.01945

CA79 B26 C9 E43 F9 H16 H20 R5 V8 W116 (RTW019) (18 OCT 74)

REFERENCE DATA

SREF = 2003.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0193

PARAMETRIC DATA

BETA = .000 ELV-LO = -20.000
ELV-LI = -20.000 ELV-RI = -20.000
ELV-RO = -20.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 3.530

RUN NO. 123/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.29580	.35501	.00706	-.00078	.00010	.00014	.00215	.64030	.26662	.13966
0.900	19.000	.35741	.35605	.01006	-.00095	-.00001	.00020	.00215	.63951	.31900	.16036
0.900	21.000	.42409	.35625	.01225	-.00121	-.00021	.00033	.00215	.63927	.37651	.20478
0.900	23.000	.49612	.35626	.01250	-.00143	-.00030	.00046	.00215	.64035	.43470	.24564
0.900	25.000	.56040	.35664	.01326	-.00156	-.00043	.00046	.00213	.64131	.49129	.29150
0.900	27.000	.64430	.35705	.01190	-.00162	-.00046	.00045	.00213	.64215	.54025	.34330
0.900	29.000	.72203	.35752	.01360	-.00196	-.00045	.00043	.00215	.64298	.60412	.40063
0.900	31.000	.80313	.35774	.01270	-.00212	-.00054	.00041	.00215	.64405	.65060	.46314
0.900	33.000	.88576	.35743	.01215	-.00235	-.00041	.00032	.00213	.64486	.71100	.53020
0.900	35.000	.97190	.35002	.00992	-.00259	-.00043	.00019	.00213	.64614	.76242	.60353
0.900	37.000	1.03790	.35637	.00605	-.00300	-.00052	.00020	.00215	.64749	.81044	.68130
0.900	39.000	1.14290	.35570	.00557	-.00320	-.00062	.00036	.00215	.64877	.85279	.76236
0.900	41.000	1.22701	.35442	.00313	-.00339	-.00060	.00035	.00213	.64900	.89370	.84645
0.900	43.000	1.31260	.35265	-.00305	-.00350	-.00060	.00030	.00213	.65100	.92404	.93367
0.900	45.000	1.39600	.35164	-.00703	-.00374	-.00060	.00025	.00213	.65201	.95161	1.02320
	GRADIENT	.03420	.00011	.00167	-.00010	-.00007	.00004	-.00000	.00010	.02022	.01901

OA70 B26 C9 E43 F8 M16 N20 R5 V8 W16 (RTW018) (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.0000 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.0000 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = -20.000
ELV-LI = -20.000 ELV-RI = -20.000
ELV-RO = -20.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 3.530

RUN NO. 124/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	-5.136	.41583	.05068	.01214	.04043	.00824	.00650	.00207	.53912	.36000	.19057
0.900	-3.060	.41631	.05731	.01192	.02394	.00401	.00397	.00217	.63935	.37050	.19093
0.900	-1.017	.41501	.05625	.01235	.00823	.00136	.00151	.00214	.63005	.37022	.19760
0.900	-.000	.41401	.05032	.01322	.00030	.00010	.00030	.00210	.63016	.36037	.19711
0.900	1.035	.41440	.05500	.01304	-.00810	-.00116	-.00087	.00202	.63030	.36001	.19604
0.900	3.087	.41412	.05642	.01276	-.02430	-.00376	-.00329	.00201	.63055	.36046	.19726
0.900	5.133	.41244	.05760	.01310	-.04255	-.00601	-.00599	.00203	.63019	.36693	.19776
	GRADIENT	-.00345	-.00015	.00016	-.00786	-.00126	-.00110	-.00002	-.00019	-.00036	-.00028

OA79 B26 C9 E43 F8 H16 N20 R3 V8 W16 (RTW017) (18 OCT 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6600 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6000 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	10.000	ELV-RI =	10.000
ELV-RO =	10.000	BOFLAP =	.000
SPOARK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 123/ 0 RN/L = 3.52 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.34017	.03922	-.02330	-.00181	.00077	-.00126	.00212	.67507	.30799	.15609
8.000	19.000	.40663	.06105	-.02630	-.00195	.00078	-.00140	.00212	.67368	.36480	.19011
8.000	21.000	.48154	.06211	-.02991	-.00232	.00078	-.00146	.00212	.67274	.42730	.23055
8.000	23.000	.56047	.06330	-.03498	-.00223	.00082	-.00151	.00212	.67286	.49118	.27726
8.000	25.000	.64025	.06469	-.04004	-.00223	.00084	-.00168	.00212	.67291	.55284	.32940
8.000	27.000	.72341	.06648	-.04569	-.00255	.00089	-.00182	.00212	.67314	.61438	.38766
8.000	29.000	.80955	.06801	-.05197	-.00286	.00086	-.00200	.00212	.67353	.67907	.45196
8.000	31.000	.89775	.06928	-.05909	-.00289	.00094	-.00210	.00212	.67413	.73380	.52174
8.000	33.000	.98844	.07035	-.06680	-.00307	.00121	-.00229	.00212	.67478	.79066	.59734
8.000	35.000	1.08193	.07123	-.07537	-.00332	.00142	-.00243	.00212	.67556	.84905	.67866
8.000	37.000	1.17900	.07213	-.08430	-.00361	.00158	-.00251	.00212	.67632	.89497	.76472
8.000	39.000	1.26790	.07320	-.09349	-.00375	.00154	-.00251	.00212	.67705	.93924	.85477
8.000	41.000	1.36040	.07375	-.10280	-.00406	.00158	-.00258	.00212	.67772	.97839	.94815
8.000	43.000	1.45140	.07374	-.11196	-.00436	.00168	-.00266	.00212	.67830	1.01120	1.04380
8.000	45.000	1.53990	.07337	-.12125	-.00469	.00183	-.00270	.00212	.67890	1.03670	1.14040
	GRADIENT	.03770	.00068	-.00211	-.00006	-.00002	-.00005	-.00000	-.00026	.03081	.02169

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTWD18) (18 OCT 74)

REFERENCE DATA

SREF =	2693.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.8800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0195		

PARAMETRIC DATA

ALPHA =	.000	ELV-LO =	10.000
ELV-LI =	10.000	ELV-RI =	10.000
ELV-RO =	10.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 126/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	-5.094	.91331	.08995	-.05899	.02998	.00767	.00650	.00145	.67368	.74919	.52700
8.000	-3.010	.91685	.08673	-.05978	.01434	.00484	.00240	.00143	.67391	.75285	.52778
8.000	-1.025	.91867	.08765	-.08005	.00068	.00210	-.00121	.00147	.67397	.75496	.52780
8.000	.054	.91888	.08699	-.05997	-.00667	.00094	-.00324	.00147	.67393	.75546	.52737
8.000	1.031	.91850	.08680	-.05993	-.01394	-.00049	-.00521	.00145	.67393	.75521	.52702
8.000	3.089	.91634	.08726	-.05922	-.02832	-.00335	-.00902	.00142	.67370	.75309	.52636
8.000	5.122	.91242	.08840	-.05810	-.04384	-.00579	-.01303	.00141	.67335	.74910	.52538
	GRADIENT	-.00009	-.00026	.00009	-.00751	-.00133	-.00188	-.00000	-.00003	.00004	-.00025

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTH019) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0139		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 127/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.38561	.07756	-.06443	-.00180	.00110	-.00163	.00218	.71135	.34809	.18691
0.900	19.000	.49805	.09105	-.07384	-.00214	.00116	-.00177	.00218	.73667	.40765	.22009
0.900	21.000	.54166	.08345	-.07793	-.00255	.00121	-.00190	.00218	.73256	.47578	.27202
0.900	23.000	.62186	.08098	-.08592	-.00280	.00130	-.00208	.00218	.73073	.53844	.32305
0.900	25.000	.70573	.09047	-.09351	-.00306	.00148	-.00230	.00218	.69866	.60137	.38024
0.900	27.000	.79189	.09420	-.10217	-.00332	.00157	-.00246	.00218	.69739	.66263	.44335
0.900	29.000	.88094	.09780	-.11108	-.00365	.00180	-.00263	.00218	.69631	.72507	.51262
0.900	31.000	.97241	.10112	-.12070	-.00378	.00195	-.00270	.00218	.69558	.78144	.58751
0.900	33.000	1.06580	.10384	-.13061	-.00398	.00219	-.00279	.00218	.69501	.83730	.66756
0.900	35.000	1.16080	.10649	-.14088	-.00429	.00240	-.00289	.00218	.69457	.88983	.75307
0.900	37.000	1.25590	.10890	-.15132	-.00466	.00251	-.00295	.00218	.69427	.93701	.84244
0.900	39.000	1.34910	.11111	-.16138	-.00489	.00255	-.00299	.00218	.69393	.97852	.93536
0.900	41.000	1.44290	.11279	-.17168	-.00532	.00270	-.00319	.00218	.69370	1.01900	1.03180
0.900	43.000	1.53570	.11422	-.18261	-.00600	.00307	-.00377	.00218	.69367	1.04520	1.13090
0.900	45.000	1.63510	.11598	-.19895	-.00698	.00390	-.00613	.00218	.69469	1.07420	1.23820
	GRADIENT	.04015	.00139	-.00366	-.00016	.00005	-.00008	-.00000	-.00157	.03257	.02418

OA79 B26 C9 E43 F8 H16 H20 R5 V8 W16 (RTW020) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6000 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0193		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 126/ 0 RN/L = 3.53 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.40302	.07979	-.06319	-.00222	.00145	-.00197	.00063	.70732	.36399	.19472
0.900	19.000	.48064	.08273	-.06953	-.00239	.00151	-.00212	.00063	.70315	.42752	.23473
0.900	21.000	.56064	.08567	-.07695	-.00261	.00152	-.00222	.00063	.70043	.49270	.28089
0.900	23.000	.64425	.08894	-.08491	-.00290	.00169	-.00243	.00063	.69842	.55829	.33360
0.900	25.000	.72982	.09234	-.09264	-.00319	.00187	-.00266	.00063	.69671	.62133	.39182
0.900	27.000	.81588	.09575	-.10114	-.00342	.00208	-.00284	.00063	.69555	.68331	.45582
0.900	29.000	.90459	.09903	-.11008	-.00333	.00222	-.00295	.00063	.69471	.74318	.52517
0.900	31.000	.99803	.10211	-.11987	-.00355	.00240	-.00304	.00063	.69425	.80118	.60052
0.900	33.000	1.08880	.10499	-.13010	-.00384	.00265	-.00314	.00063	.69390	.85583	.68097
0.900	35.000	1.18275	.10781	-.14073	-.00408	.00275	-.00322	.00063	.69371	.90757	.76651
0.900	37.000	1.27640	.10997	-.15115	-.00430	.00276	-.00322	.00063	.69350	.95320	.83599
0.900	39.000	1.36875	.11196	-.16160	-.00460	.00286	-.00325	.00063	.69338	.99321	.94835
0.900	41.000	1.46080	.11355	-.17232	-.00500	.00295	-.00329	.00063	.69334	1.02780	1.04390
0.900	43.000	1.55210	.11529	-.18456	-.00606	.00343	-.00401	.00063	.69364	1.05650	1.14290
0.900	45.000	1.69100	.11797	-.20130	-.00724	.00413	-.00631	.00063	.69476	1.08400	1.25030
	GRADIENT	.04354	.00197	-.00371	-.00012	.00005	-.00008	.00000	-.00130	.03227	.02464

OA79 B26 C9 E43 F8 H16 N20 R5 V8 W16 (RTW021) (18 OCT 74)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8191 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0199

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BDFLAP =	10.300
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 129/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.40325	.07930	-.07925	-.00193	.00133	-.00175	.00221	.72219	.36242	.19381
0.000	19.000	.47820	.08424	-.09083	-.00222	.00144	-.00191	.00221	.71976	.42480	.23536
0.000	21.000	.56100	.08804	-.10247	-.00244	.00144	-.00199	.00221	.71709	.49191	.28421
0.000	23.000	.64560	.09350	-.11908	-.00269	.00150	-.00223	.00221	.71545	.55799	.33852
0.000	25.000	.73363	.09858	-.12672	-.00301	.00172	-.00247	.00221	.71346	.62331	.39921
0.000	27.000	.82582	.10333	-.13884	-.00322	.00182	-.00259	.00221	.71193	.68893	.46600
0.000	29.000	.91482	.10798	-.15085	-.00354	.00205	-.00273	.00221	.71058	.74777	.53796
0.000	31.000	1.00880	.11248	-.16308	-.00361	.00213	-.00277	.00221	.70939	.80880	.61599
0.000	33.000	1.10420	.11645	-.17561	-.00387	.00238	-.00283	.00221	.70843	.86264	.69905
0.000	35.000	1.20080	.12023	-.18832	-.00411	.00257	-.00287	.00221	.70762	.91476	.78750
0.000	37.000	1.29790	.12333	-.20060	-.00438	.00275	-.00292	.00221	.70681	.96188	.87890
0.000	39.000	1.39310	.12681	-.21276	-.00460	.00288	-.00294	.00221	.70611	1.00280	.97526
0.000	41.000	1.48780	.12954	-.22466	-.00510	.00279	-.00310	.00221	.70549	1.03770	1.07370
0.000	43.000	1.58190	.13187	-.23689	-.00578	.00308	-.00349	.00221	.70502	1.06700	1.17530
0.000	45.000	1.68930	.13501	-.25480	-.00716	.00414	-.00398	.00221	.70558	1.09480	1.28590
	GRADIENT	.04142	.00257	-.00596	-.00013	.00004	-.00009	.00000	-.00109	.03275	.02570

OA79 B26 C9 E43 F8 H16 M20 R5 V8 W16 (ATM022) (18 OCT 74)

REFERENCE DATA

SREF	=	2090.0000 SQ.FT.	XMRP	=	1078.6800 IN.XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.YO
BREF	=	936.6699 IN.	ZMRP	=	379.0000 IN.ZO
SCALE	=	.0191			

PARAMETRIC DATA

BETA	=	.000	ELV-LO	=	20.000
ELV-LI	=	20.000	ELV-RI	=	.000
ELV-RO	=	.000	BOFLAP	=	.000
SPOBRK	=	55.000	RUDDER	=	.000
RN/L	=	3.530			

RUN NO. 190/ 9 RN/L = 3.56 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.34978	.06396	-.03156	.00200	-.00384	.00828	.00207	.68202	.31579	.16343
8.000	19.000	.41976	.06599	-.03432	.00196	-.00449	.01036	.00207	.67997	.37540	.19906
8.000	21.000	.49394	.06822	-.03904	.00200	-.00509	.01142	.00207	.67915	.43388	.23962
8.000	23.000	.56864	.06978	-.04322	.00222	-.00582	.01233	.00207	.67786	.49617	.28642
8.000	25.000	.64829	.07156	-.04811	.00239	-.00642	.01311	.00207	.67720	.55730	.33884
8.000	27.000	.73147	.07351	-.05339	.00229	-.00692	.01386	.00207	.67676	.61837	.39758
8.000	29.000	.81640	.07524	-.05947	.00194	-.00730	.01451	.00207	.67671	.67756	.46161
8.000	31.000	.90490	.07680	-.06653	.00178	-.00771	.01518	.00207	.67696	.73610	.53189
8.000	33.000	.99556	.07812	-.07383	.00152	-.00810	.01580	.00207	.67720	.79240	.60774
8.000	35.000	1.08780	.07919	-.08218	.00128	-.00854	.01636	.00207	.67772	.84547	.68867
8.000	37.000	1.18080	.08018	-.09057	.00110	-.00898	.01684	.00207	.67815	.89480	.77453
8.000	39.000	1.27293	.08110	-.09898	.00093	-.00951	.01725	.00207	.67854	.93789	.86384
8.000	41.000	1.36475	.08149	-.10779	.00055	-.00988	.01750	.00207	.67898	.97649	.95683
8.000	43.000	1.45520	.08130	-.11702	-.00002	-.01013	.01772	.00207	.67951	1.00880	1.05190
8.000	45.000	1.54093	.08100	-.12686	-.00063	-.01026	.01800	.00207	.68012	1.03590	1.15140
	GRADIENT	.03730	.00095	-.00220	.00005	-.00032	.00048	-.00000	-.00059	.03019	.02191

OA79 B26 C9 E43 F6 M16 N20 R5 V8 W16 (RTW023) (18 OCT 74)

REFERENCE DATA

SREF =	2093.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0139		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-10.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.540		

RUN NO. 1317 0 RN/L = 3.54 GRADIENT INTERVAL = 19.00/ 29.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.30278	.05482	.00900	-.00133	.00004	.00004	.00205	.64379	.27558	.14378
8.000	19.000	.36240	.05804	.01585	-.00144	-.00008	.00009	.00205	.64394	.32441	.17097
8.000	21.000	.43516	.05526	.00684	-.00145	-.00025	.00024	.00205	.64407	.38459	.20682
8.000	23.000	.50496	.05544	.00711	-.00161	-.00042	.00036	.00205	.64471	.44315	.24834
8.000	25.000	.57859	.05572	.00687	-.00169	-.00049	.00033	.00205	.64553	.50083	.29503
8.000	27.000	.65996	.05609	.00642	-.00188	-.00053	.00030	.00205	.64630	.55900	.34778
8.000	29.000	.73593	.05693	.00489	-.00205	-.00047	.00020	.00205	.64746	.61571	.40593
8.000	31.000	.81799	.05645	.00376	-.00215	-.00052	.00016	.00205	.64853	.67208	.46968
8.000	33.000	.90193	.05582	.00081	-.00233	-.00039	-.00005	.00205	.64958	.72566	.53780
8.000	35.000	.98051	.05515	-.00286	-.00235	-.00034	-.00009	.00205	.65098	.77811	.61216
8.000	37.000	1.07629	.05453	-.00757	-.00255	-.00034	-.00006	.00205	.65290	.82670	.69125
8.000	39.000	1.16480	.05389	-.01244	-.00256	-.00057	.00008	.00205	.65385	.87116	.77479
8.000	41.000	1.25190	.05263	-.01771	-.00276	-.00063	.00007	.00205	.65512	.91033	.86106
8.000	43.000	1.33875	.05093	-.02328	-.00314	-.00057	-.00002	.00205	.65632	.94436	.95026
8.000	45.000	1.42480	.04896	-.02897	-.00343	-.00043	-.00007	.00205	.65740	.97275	1.04200
	GRADIENT	.05471	.00038	.00025	-.00005	-.00007	.00004	-.00000	.00021	.02866	.01930

OA79 B26 C9 E43 F8 H16 H28 R5 V8 W16

(RTW324) (18 OCT 74)

REFERENCE DATA

SREF =	2003.0000 SQ.FT.	XMRP =	1076.8000 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0139		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	10.000
ELV-RO =	10.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	5.530		

RUN NO. 132/ 0 RN/L = 5.54 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.32323	.03679	-.01055	-.00287	.00138	-.00391	.00205	.66188	.29251	.14881
0.000	19.000	.38043	.03802	-.01086	-.00326	.00175	-.00472	.00205	.66011	.35029	.18197
0.000	21.000	.43962	.03922	-.01380	-.00354	.00182	-.00750	.00205	.66077	.40787	.22000
0.000	23.000	.53536	.03993	-.01626	-.00402	.00205	-.00836	.00205	.66107	.46937	.26436
0.000	25.000	.61211	.04113	-.01944	-.00436	.00241	-.00933	.00205	.66159	.52892	.31409
0.000	27.000	.69380	.04221	-.02271	-.00479	.00272	-.01031	.00205	.66194	.58976	.37031
0.000	29.000	.77743	.04342	-.02669	-.00514	.00311	-.01131	.00205	.66254	.64921	.43238
0.000	31.000	.86272	.04437	-.03145	-.00534	.00336	-.01221	.00205	.66332	.70635	.49951
0.000	33.000	.94083	.04453	-.03652	-.00569	.00390	-.01329	.00205	.66406	.76147	.57145
0.000	35.000	1.03993	.04672	-.04267	-.00596	.00439	-.01427	.00205	.66501	.81468	.64945
0.000	37.000	1.13080	.04697	-.04976	-.00626	.00481	-.01503	.00205	.66611	.86584	.73229
0.000	39.000	1.22180	.04929	-.05702	-.00644	.00502	-.01562	.00205	.66709	.90826	.81946
0.000	41.000	1.31175	.04903	-.06432	-.00665	.00533	-.01622	.00205	.66802	.94727	.90965
0.000	43.000	1.40380	.04640	-.07191	-.01706	.00579	-.01683	.00205	.66881	.98056	1.00290
0.000	45.000	1.48919	.04548	-.07971	-.00717	.00618	-.01735	.00205	.66962	1.00800	1.09780
	GRADIENT	.03613	.00153	-.00116	-.00019	.00010	-.00042	.00000	.00002	.02959	.02065

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW025) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.6000 IN.XQ
LREF =	474.8100 IN.	YMRP =	.0000 IN.YQ
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZQ
SCALE =	.0199		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-40.000
ELV-LI =	-40.000	ELV-RI =	-40.000
ELV-RO =	-40.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.590		

RUN NO. 1331 0 RN/L = 3.58 GRADIENT INTERVAL = 15.00/ 29.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	17.000	.28036	.03836	.01300	-.00092	.00014	.00045	.00224	.63320	.25937	.14032
0.990	19.000	.35456	.03804	.01347	-.00120	.00030	.00054	.00224	.63301	.31635	.17031
0.990	21.000	.42938	.03876	.01673	-.00115	-.00030	.00075	.00224	.63323	.37140	.20331
0.990	23.000	.48829	.03938	.01714	-.00104	-.00047	.00078	.00224	.63699	.42120	.24504
0.990	25.000	.54236	.03996	.01866	-.00133	-.00050	.00077	.00224	.63768	.48408	.29188
0.990	27.000	.63687	.04075	.01931	-.00147	-.00060	.00081	.00224	.63863	.53990	.34321
0.990	29.000	.71426	.04195	.02017	-.00201	-.00068	.00078	.00224	.63951	.59489	.40007
0.990	31.000	.79337	.04219	.02027	-.00205	-.00055	.00084	.00224	.64090	.64807	.46185
0.990	33.000	.87456	.04203	.02013	-.00222	-.00042	.00079	.00224	.64144	.69900	.52034
0.990	35.000	.95705	.04232	.01924	-.00222	-.00039	.00073	.00224	.64252	.74913	.58028
0.990	37.000	1.04220	.04196	.01781	-.00234	-.00040	.00078	.00224	.64370	.79307	.67671
0.990	39.000	1.12623	.04177	.01536	-.00254	-.00055	.00093	.00224	.64490	.83636	.75675
0.990	41.000	1.20980	.04130	.01324	-.00275	-.00066	.00099	.00224	.64589	.87208	.83998
0.990	43.000	1.29210	.04035	.01089	-.00307	-.00067	.00100	.00224	.64682	.90389	.92537
0.990	45.000	1.37340	.03913	.00891	-.00318	-.00062	.00105	.00224	.64753	.92932	1.01300
	GRADIENT	.03404	.00323	.00365	-.00003	-.00009	.00104	-.00000	.00080	.02801	.01093

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16

(RTU026) (18 OCT 74)

REFERENCE DATA

SREF =	2660.0000 SQ.FT.	XMRP =	1076.6000 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	916.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.7193		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-40.000	ELV-RI =	-40.000
ELV-RO =	-10.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.590		

RUN NO. 1367 0 RN/L = 3.57 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	17.990	.29795	.05516	.00756	-.00112	.00006	.00023	.00215	.64112	.26840	.13974
0.990	19.990	.36011	.05626	.00975	-.00135	-.00008	.00028	.00215	.63996	.32217	.17044
0.990	21.990	.42617	.05686	.01173	-.00133	-.00035	.00042	.00215	.64061	.37740	.20577
0.990	23.990	.49784	.05682	.01359	-.00160	-.00046	.00045	.00215	.64132	.43615	.24637
0.990	25.990	.57258	.05758	.01579	-.00179	-.00048	.00041	.00215	.64164	.49278	.29333
0.990	27.990	.64613	.05818	.01343	-.00201	-.00053	.00040	.00215	.64225	.54929	.34518
0.990	29.990	.72444	.05886	.01348	-.00230	-.00048	.00037	.00215	.64306	.60506	.40271
0.990	31.990	.80479	.05950	.01298	-.00243	-.00056	.00041	.00215	.64397	.65930	.46553
0.990	33.990	.88757	.05920	.01222	-.00252	-.00041	.00028	.00215	.64484	.71172	.53278
0.990	35.990	.97184	.05908	.01034	-.00261	-.00035	.00024	.00215	.64800	.76202	.60571
0.990	37.990	1.05990	.05894	.00763	-.00281	-.00042	.00031	.00215	.64726	.80980	.68312
0.990	39.990	1.14193	.05678	.00464	-.00304	-.00056	.00040	.00215	.64842	.85340	.76428
0.990	41.990	1.22740	.05608	.00149	-.00316	-.00064	.00043	.00215	.64947	.88825	.84911
0.990	43.990	1.31790	.05600	-.00165	-.00335	-.00062	.00043	.00215	.65038	.91995	.93868
0.990	45.990	1.39291	.05552	-.00520	-.00348	-.00056	.00040	.00215	.65129	.94539	1.02390
	GRADIENT	.03420	.00027	.00067	-.00008	-.00007	.00003	-.00000	.00012	.02814	.01918

DATE 10 MAR 75 TABULATED SOURCE DATA - OA79 (RTL067) (10 OCT 74)

OA79 B26 C0 E43 F0 M16 N26 R3 V0 W16

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1578.6000 IN.XO
LREF =	474.0100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0100		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-40.000	ELV-RI =	-40.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 135/ 0 RN/L = 3.56 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.990	17.000	.93590	.05580	.00375	-.00126	.00010	-.00008	.00218	.64531	.27390	.14191
0.990	19.000	.98855	.05615	.00646	-.00157	-.00003	-.00010	.00218	.64543	.33085	.17320
0.990	21.000	1.03496	.05655	.00906	-.00145	-.00028	-.00002	.00218	.64484	.38580	.20867
0.990	23.000	1.07733	.05714	.00629	-.00100	-.00042	-.00005	.00218	.64532	.44436	.25075
0.990	25.000	1.11857	.05788	.00642	-.00109	-.00041	-.00011	.00218	.64582	.50076	.29748
0.990	27.000	1.15675	.05872	.00650	-.00236	-.00045	-.00015	.00218	.64637	.55651	.35048
0.990	29.000	1.19300	.05949	.00591	-.00227	-.00037	-.00026	.00218	.64715	.61486	.40884
0.990	31.000	1.21747	.06010	.00367	-.00242	-.00037	-.00027	.00218	.64817	.66976	.47254
0.990	33.000	1.23119	.06011	.00244	-.00248	-.00024	-.00042	.00218	.64891	.72223	.54089
0.990	35.000	1.23803	.06012	-.00035	-.00259	-.00017	-.00045	.00218	.65004	.77322	.61482
0.990	37.000	1.07290	.06022	-.00355	-.00283	-.00021	-.00039	.00218	.65113	.82059	.69376
0.990	39.000	1.19060	.06032	-.00758	-.00295	-.00034	-.00031	.00218	.65217	.86241	.77598
0.990	41.000	1.24410	.05984	-.01093	-.00311	-.00040	-.00031	.00218	.65314	.89968	.86137
0.990	43.000	1.32840	.05907	-.01476	-.00329	-.00036	-.00032	.00218	.65401	.93132	.94910
0.990	45.000	1.41293	.05774	-.01832	-.00337	-.00025	-.00035	.00218	.65488	.95787	1.03980
	GRADIENT	.03440	.00029	.00026	-.00007	-.00007	.00000	.00000	.00015	.02835	.01943

OA7P BRG C9 E43 F8 M16 N20 R5 V8 W116 (RTW020) (10 OCT 74)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1076.8000 IN.XO		
LREF	= 474.8100 IN.	YMRP	= .0000 IN.YO		
BREF	= 936.6800 IN.	ZMRP	= 375.0000 IN.ZO		
SCALE	= .0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	10.000	ELV-RI =	10.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 136/ 0 RN/L = 3.56 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.33141	.05600	-.01628	-.00145	.00030	-.00064	.00214	.66794	.30030	.15131
0.900	19.000	.40311	.05825	-.01825	-.00164	.00020	-.00065	.00214	.66666	.35036	.18532
0.900	21.000	.47321	.05956	-.02132	-.00177	.00005	-.00060	.00214	.66646	.42060	.22475
0.900	23.000	.54817	.06049	-.02520	-.00197	-.00005	-.00075	.00214	.66681	.48096	.26987
0.900	25.000	.62725	.06140	-.02945	-.00214	-.00015	-.00090	.00214	.66717	.54249	.32081
0.900	27.000	.70936	.06290	-.03435	-.00237	-.00005	-.00105	.00214	.66775	.60322	.37795
0.900	29.000	.78420	.06401	-.03957	-.00270	.00010	-.00122	.00214	.66824	.66366	.44107
0.900	31.000	.88145	.06935	-.04585	-.00275	.00008	-.00120	.00214	.66935	.72206	.50972
0.900	33.000	.97144	.06547	-.05265	-.00302	.00029	-.00140	.00214	.66985	.77906	.58400
0.900	35.000	1.06500	.06598	-.06163	-.00315	.00144	-.00158	.00214	.67069	.83353	.66419
0.900	37.000	1.15600	.06656	-.06891	-.00357	.00190	-.00163	.00214	.67184	.88364	.74923
0.900	39.000	1.24040	.06701	-.07719	-.00354	.00038	-.00164	.00214	.67267	.92035	.83775
0.900	41.000	1.34030	.06731	-.08036	-.00384	.00040	-.00173	.00214	.67355	.96759	.92990
0.900	43.000	1.43120	.06656	-.09481	-.00430	.00050	-.00185	.00214	.67430	1.00120	1.02480
0.900	45.000	1.51610	.06509	-.10376	-.00460	.00070	-.00193	.00214	.67510	1.02590	1.11080
	GRADIENT	.03600	.00157	-.00166	-.00010	-.00004	-.00003	-.00000	-.00007	.03030	.02110

OA70 026 C9 E43 F0 H16 N20 R3 V8 W16 (RTA029) (18 OCT 74)

REFERENCE DATA

SREF =	4003.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0150		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 137/ 0 RN/L = 3.56 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.30729	.03544	.00067	-.00130	.00008	-.00023	.00213	.64935	.27762	.14285
0.900	19.000	.37265	.03553	.00179	-.00120	-.00000	-.00018	.00213	.64011	.33424	.17502
0.900	21.000	.44432	.03545	.00254	-.00151	-.00021	-.00010	.00213	.64770	.39493	.21100
0.900	23.000	.51970	.03633	.00121	-.00161	-.00037	-.00005	.00213	.64933	.45212	.25311
0.900	25.000	.59000	.03602	.00017	-.00172	-.00057	-.00014	.00213	.64985	.51071	.30004
0.900	27.000	.66657	.03740	-.00127	-.00194	-.00040	-.00023	.00213	.65081	.56964	.35466
0.900	29.000	.74010	.03793	-.00325	-.00222	-.00033	-.00036	.00213	.65149	.62709	.41384
0.900	31.000	.83252	.03802	-.00507	-.00242	-.00037	-.00042	.00213	.65250	.68373	.47051
0.900	33.000	.91746	.03793	-.00891	-.00259	-.00018	-.00055	.00213	.65348	.73811	.54703
0.900	35.000	1.00610	.03711	-.01393	-.00279	-.00014	-.00060	.00213	.65485	.79130	.62385
0.900	37.000	1.09910	.03660	-.01876	-.00292	-.00017	-.00065	.00213	.65622	.84044	.70429
0.900	39.000	1.18591	.03807	-.02431	-.00296	-.00034	-.00062	.00213	.65747	.88448	.78838
0.900	41.000	1.27100	.03400	-.03007	-.00314	-.00036	-.00065	.00213	.65862	.92381	.87579
0.900	43.000	1.35010	.03337	-.03593	-.00330	-.00027	-.00073	.00213	.65964	.95761	.96595
0.900	45.000	1.44509	.03161	-.04217	-.00373	-.00019	-.00079	.00213	.66065	.98580	1.05093
	GRADIENT	.03540	.00010	-.00070	-.00006	-.00006	.00002	-.00000	.00013	.02920	.01976

OA79 B26 C9 E43 F8 H16 M20 R5 V8 W16 (RTV030) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1376.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6600 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0190		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 138/ 0 RN/L = 3.53 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.30512	.05595	.00190	-.00118	.00005	-.00020	.00213	.64758	.27543	.14271
8.000	19.000	.37037	.05615	.00345	-.00126	-.00004	-.00018	.00213	.64644	.33192	.17367
8.000	21.000	.43644	.05698	.00395	-.00145	-.00024	-.00010	.00213	.64657	.38890	.21033
8.000	23.000	.51090	.05738	.00343	-.00141	-.00035	-.00005	.00213	.64742	.44786	.25244
8.000	25.000	.58526	.05782	.00340	-.00158	-.00038	-.00015	.00213	.64778	.50599	.29975
8.000	27.000	.66288	.05831	.00266	-.00187	-.00036	-.00023	.00213	.64842	.56416	.35290
8.000	29.000	.74293	.05895	.00146	-.00205	-.00029	-.00033	.00213	.64918	.62120	.41174
8.000	31.000	.82477	.05916	-.00028	-.00223	-.00034	-.00037	.00213	.65005	.67650	.47550
8.000	33.000	.90870	.05888	-.00249	-.00246	-.00018	-.00057	.00213	.65092	.73004	.54429
8.000	35.000	.99672	.05846	-.00572	-.00266	-.00013	-.00061	.00213	.65202	.78294	.61958
8.000	37.000	1.08990	.05815	-.01025	-.00287	-.00015	-.00054	.00213	.65339	.83061	.69872
8.000	39.000	1.17140	.05759	-.01439	-.00300	-.00031	-.00050	.00213	.65444	.87410	.78194
8.000	41.000	1.25770	.05654	-.01950	-.00309	-.00035	-.00050	.00213	.65562	.91208	.86777
8.000	43.000	1.34390	.05509	-.02392	-.00326	-.00032	-.00055	.00213	.65647	.94526	.95680
8.000	45.000	1.42860	.05333	-.02919	-.00348	-.00027	-.00054	.00213	.65744	.97249	1.04790
	GRADIENT	.03504	.00025	.00015	-.00005	-.00006	.00001	-.00000	.00007	.02885	.01964

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW031) (18 OCT 74)

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6899 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-5.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-5.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 139/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.90180	.05580	.00377	-.00103	.00004	-.00011	.00213	.64528	.27236	.14141
0.000	19.000	.96724	.05563	.00564	-.00112	-.00008	-.00006	.00213	.64422	.32912	.17217
0.000	21.000	.43453	.05608	.00638	-.00125	-.00028	.00002	.00213	.64448	.38557	.20808
0.000	23.000	.99643	.05681	.00671	-.00145	-.00042	.00008	.00213	.64501	.44405	.24999
0.000	25.000	.56029	.05694	.00700	-.00161	-.00043	.00001	.00213	.64546	.50186	.29685
0.000	27.000	.65743	.05730	.00691	-.00189	-.00043	-.00004	.00213	.64603	.55976	.34952
0.000	29.000	.73667	.05788	.00606	-.00210	-.00042	-.00010	.00213	.64668	.61624	.40777
0.000	31.000	.81742	.05810	.00460	-.00228	-.00045	-.00016	.00213	.64784	.67075	.47080
0.000	33.000	.90116	.05751	.00294	-.00242	-.00034	-.00036	.00213	.64871	.72445	.53904
0.000	35.000	.98743	.05694	-.00020	-.00259	-.00028	-.00043	.00213	.64999	.77619	.61301
0.000	37.000	1.07520	.05650	-.00395	-.00274	-.00030	-.00037	.00213	.65127	.82466	.69216
0.000	39.000	1.16190	.05586	-.00815	-.00284	-.00047	-.00031	.00213	.65250	.86779	.77480
0.000	41.000	1.24859	.05471	-.01277	-.00305	-.00053	-.00034	.00213	.65368	.90639	.86041
0.000	43.000	1.33380	.05309	-.01726	-.00317	-.00053	-.00039	.00213	.65468	.93915	.94837
0.000	45.000	1.41875	.05108	-.02199	-.00336	-.00048	-.00040	.00213	.65562	.96708	1.03930
	GRADIENT	.03481	.00018	.00038	-.00007	-.00006	.00002	-.00000	.00006	.02879	.01944

OA79 B26 C9 E45 F8 H16 N28 R5 V8 W16 (RTW033) (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.6000 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6873 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0191

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	10.000	SDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 141/ 0 RN/L = 3.54 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.32380	.05752	-.01155	-.00093	.00047	-.00102	.00210	.66298	.29284	.14968
8.000	19.000	.38936	.05895	-.01309	-.00109	.00039	-.00112	.00210	.66225	.34896	.18290
8.000	21.000	.46265	.05946	-.01501	-.00138	.00039	-.00115	.00210	.66182	.41062	.22131
8.000	23.000	.53913	.06027	-.01801	-.00160	.00026	-.00121	.00210	.66218	.47273	.26614
8.000	25.000	.61635	.06134	-.02105	-.00185	.00027	-.00139	.00210	.66246	.53268	.31607
8.000	27.000	.69756	.06234	-.02429	-.00214	.00030	-.00157	.00210	.66272	.59322	.37223
8.000	29.000	.78100	.06336	-.02880	-.00253	.00043	-.00178	.00209	.66347	.65236	.43405
8.000	31.000	.86727	.06407	-.03400	-.00265	.00048	-.00189	.00210	.66434	.71040	.50159
8.000	33.000	.95971	.06427	-.03980	-.00283	.00089	-.00215	.00210	.66518	.76852	.57442
8.000	35.000	1.04690	.06461	-.04682	-.00302	.00074	-.00221	.00209	.66637	.82051	.65340
8.000	37.000	1.13680	.06493	-.05441	-.00335	.00076	-.00228	.00210	.66790	.87041	.73721
8.000	39.000	1.23000	.06504	-.06183	-.00342	.00065	-.00236	.00210	.66841	.91499	.82464
8.000	41.000	1.32130	.06453	-.06963	-.00354	.00065	-.00246	.00210	.66931	.95485	.91554
8.000	43.000	1.41080	.06375	-.07762	-.00387	.00076	-.00254	.00210	.67017	.98815	1.00880
8.000	45.000	1.49910	.06282	-.08582	-.00410	.00089	-.00260	.00210	.67099	1.01580	1.10490
	GRADIENT	.03674	.00045	-.00120	-.00012	-.00003	-.00004	-.00000	-.00008	.03017	.02082

OA79 B26 C9 E43 F8 H16 M20 R5 V8 W16 (RTW034) (18 OCT 74)

REFERENCE DATA

SREF =	2893.0000 SQ.FT.	XMRP =	1078.6800 IN.XO		
LREF =	474.0100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0151				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-10.000	BOFLAP =	.000
SPOBAR =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 142/ 0 RN/L = 3.53 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.35780	.03526	-.00091	-.00107	.00013	-.00009	.00202	.69047	.27829	.14287
0.000	19.000	.37273	.03589	.00003	-.00112	-.00004	-.00003	.00202	.64985	.33423	.17419
0.000	21.000	.44202	.03624	-.00314	-.00136	-.00018	.00003	.00202	.65000	.39251	.21091
0.000	23.000	.51383	.03649	-.00141	-.00167	-.00031	.00009	.00202	.65090	.45272	.25354
0.000	25.000	.58172	.03687	-.00288	-.00196	-.00032	.00001	.00202	.65169	.51220	.30179
0.000	27.000	.64317	.03737	-.00468	-.00217	-.00038	-.00004	.00202	.65247	.57108	.35557
0.000	29.000	.79229	.03790	-.00728	-.00243	-.00055	-.00013	.00202	.65347	.62989	.41536
0.000	31.000	.83594	.03834	-.01073	-.00251	-.00058	-.00017	.00202	.65463	.68665	.48029
0.000	33.000	.92189	.03756	-.01453	-.00268	-.00026	-.00034	.00202	.65571	.74181	.55037
0.000	35.000	1.01110	.03731	-.01996	-.00277	-.00026	-.00036	.00202	.65718	.79535	.62687
0.000	37.000	1.10393	.03736	-.02606	-.00310	-.00033	-.00036	.00202	.65863	.84688	.70811
0.000	39.000	1.19259	.03655	-.03240	-.00316	-.00049	-.00034	.00202	.65993	.88958	.79315
0.000	41.000	1.27895	.03555	-.03935	-.00326	-.00056	-.00041	.00202	.66124	.92918	.88132
0.000	43.000	1.36810	.03413	-.04804	-.00359	-.00049	-.00052	.00202	.66230	.96365	.97262
0.000	45.000	1.45580	.03243	-.05538	-.00398	-.00036	-.00058	.00202	.66342	.99216	1.06630
	GRADIENT	.03554	.00320	-.00331	-.00312	-.00036	.00002	-.00000	.00017	.02932	.01985

OA79 B26 C8 E43 F8 H16 M20 R5 V8 W16 (RTA0351 (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0193

PARAMETRIC DATA

ALPHA =	30.000	ELV-LO =	-10.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 143/ 0 RN/L = 3.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	-5.109	.88200	.05828	-.01033	.03039	.00626	.00831	.00125	.65433	.71016	.49205
8.000	-3.049	.86476	.05680	-.01068	.01512	.00339	.00449	.00144	.65447	.71273	.49183
8.000	-1.035	.86453	.05552	-.01075	.00099	.00054	.00085	.00150	.65447	.71374	.49098
8.000	-.005	.86373	.05447	-.01035	-.00645	-.00080	-.00131	.00153	.65433	.71358	.48975
8.000	1.006	.86343	.05418	-.01029	-.01366	-.00205	-.00322	.00149	.65430	.71345	.48927
8.000	3.047	.86098	.05437	-.01009	-.02827	-.00307	-.00692	.00133	.65423	.71128	.48818
8.000	5.085	.85787	.05536	-.00967	-.04356	-.00472	-.01067	.00151	.65407	.70809	.48746
	GRADIENT	-.00152	-.00043	.00011	-.00712	-.00138	-.00188	.00001	-.00004	-.00023	-.00062

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW036) (18 OCT 74)

REFERENCE DATA

SREF =	2893.3000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0193				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-10.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	5.930		

RUN NO. 144/ 0 RN/L = 5.48 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.31540	.05809	-.00528	-.00090	-.00061	.00262	.00207	.65803	.28522	.14585
8.000	19.000	.38175	.05686	-.00468	-.00086	-.00082	.00302	.00207	.65439	.34244	.17804
8.000	21.000	.45181	.05758	-.00601	-.00139	-.00091	.00342	.00207	.65478	.40117	.21567
8.000	23.000	.52607	.05828	-.00773	-.00156	-.00114	.00385	.00207	.65530	.46148	.25920
8.000	25.000	.60334	.05876	-.00981	-.00151	-.00143	.00422	.00207	.65588	.52197	.30823
8.000	27.000	.68319	.05932	-.01267	-.00146	-.00164	.00460	.00207	.65673	.58179	.36302
8.000	29.000	.76588	.06031	-.01610	-.00175	-.00185	.00496	.00207	.65764	.64062	.42406
8.000	31.000	.85127	.06109	-.02034	-.00207	-.00195	.00527	.00207	.65870	.69822	.49080
8.000	33.000	.93904	.06145	-.02562	-.00236	-.00195	.00551	.00207	.65995	.75407	.56297
8.000	35.000	1.02893	.06116	-.03162	-.00274	-.00204	.00580	.00207	.66122	.80773	.64025
8.000	37.000	1.11983	.06106	-.03823	-.00297	-.00222	.00607	.00207	.66248	.85780	.72271
8.000	39.000	1.21120	.06082	-.04522	-.00279	-.00239	.00633	.00207	.66367	.90222	.80891
8.000	41.000	1.30093	.06001	-.05252	-.00285	-.00258	.00662	.00207	.66478	.94215	.89852
8.000	43.000	1.38925	.05882	-.05975	-.00314	-.00273	.00684	.00207	.66575	.97585	.99042
8.000	45.000	1.47810	.05760	-.06756	-.00363	-.00280	.00699	.00207	.66674	1.00460	1.08580
	GRADIENT	.03601	.00134	-.00160	-.00014	-.00010	.00020	-.00000	.00003	.02963	.02030

OA79 B26 C9 E43 F8 H16 M28 R5 V8 W16 (RTW037) (18 OCT 74)

REFERENCE DATA

SREF =	2093.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0139		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-20.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.930		

RUN NO. 145/ 0 RN/L = 3.51 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.90328	.05516	.00359	-.00048	-.00009	.00161	.00207	.64551	.27390	.14143
0.000	19.000	.96726	.05369	.00552	-.00068	-.00023	.00188	.00207	.64434	.32912	.17222
0.000	21.000	.43523	.05398	.00641	-.00101	-.00035	.00217	.00207	.64447	.38626	.20823
0.000	23.000	.90728	.05652	.00667	-.00131	-.00045	.00249	.00207	.64505	.44495	.25005
0.000	25.000	.58158	.05658	.00626	-.00141	-.00061	.00277	.00207	.64594	.50318	.29707
0.000	27.000	.65968	.05685	.00516	-.00146	-.00074	.00304	.00207	.64691	.56197	.35014
0.000	29.000	.73966	.05738	.00403	-.00175	-.00080	.00331	.00207	.64790	.61910	.40878
0.000	31.000	.82286	.05787	.00192	-.00197	-.00087	.00365	.00207	.64905	.67553	.47341
0.000	33.000	.90755	.05790	-.00072	-.00225	-.00086	.00390	.00207	.65020	.72960	.54284
0.000	35.000	.99455	.05716	-.00437	-.00264	-.00088	.00418	.00207	.65153	.78190	.61727
0.000	37.000	1.08240	.05629	-.00867	-.00279	-.00094	.00448	.00207	.65286	.83054	.69633
0.000	39.000	1.16975	.05521	-.01334	-.00285	-.00109	.00481	.00207	.65411	.87432	.77905
0.000	41.000	1.25660	.05396	-.01884	-.00299	-.00116	.00517	.00207	.65544	.91315	.86529
0.000	43.000	1.34420	.05233	-.02394	-.00331	-.00117	.00550	.00207	.65647	.94736	.95498
0.000	45.000	1.42990	.05040	-.02979	-.00353	-.00114	.00593	.00207	.65759	.97543	1.04675
	GRADIENT	.05483	.00017	.00032	-.00012	-.00006	.00015	.00000	.00008	.02872	.01946

OA79 B26 C9 E43 F8 M16 NE8 R5 V8 W16 (RTW030) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.6800 IN.MO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	378.0000 IN.ZO		
SCALE =	.0190				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-20.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 146/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.90774	.05543	.00138	-.00000	-.00008	.00007	.00209	.64821	.27838	.14298
8.000	19.000	.97244	.05804	.00293	-.00000	-.00022	.00010	.00209	.64731	.33390	.17424
8.000	21.000	.46071	.05647	.00256	-.00136	-.00033	.00013	.00209	.64774	.39120	.21068
8.000	23.000	.51347	.05688	.00249	-.00183	-.00040	.00018	.00209	.64811	.45051	.25280
8.000	25.000	.56906	.05751	.00124	-.00175	-.00052	.00017	.00209	.64912	.50977	.30061
8.000	27.000	.66786	.05729	-.00054	-.00181	-.00062	.00015	.00209	.65020	.56906	.35425
8.000	29.000	.74976	.05784	-.00272	-.00210	-.00064	.00010	.00209	.65124	.62767	.41417
8.000	31.000	.83572	.05873	-.00575	-.00234	-.00071	.00011	.00209	.65245	.68440	.47871
8.000	33.000	.91923	.05884	-.00857	-.00267	-.00065	.00002	.00209	.65374	.73889	.55000
8.000	35.000	1.00790	.05836	-.01432	-.00288	-.00082	-.00006	.00209	.65514	.79215	.62591
8.000	37.000	1.09690	.05773	-.01944	-.00325	-.00082	-.00009	.00209	.65644	.84097	.70596
8.000	39.000	1.18590	.05883	-.02530	-.00317	-.00067	-.00013	.00209	.65777	.88582	.79037
8.000	41.000	1.27490	.05804	-.03131	-.00314	-.00070	-.00018	.00209	.65902	.92476	.87815
8.000	43.000	1.35890	.05672	-.03817	-.00337	-.00081	-.00023	.00209	.66023	.95800	.96810
8.000	45.000	1.44990	.05908	-.04455	-.00366	-.00092	-.00026	.00209	.66123	.98726	1.06230
	GRADIENT	.03918	.00019	-.00003	-.00015	-.00005	.00001	.00000	.00015	.02900	.01909

OA79 B26 C9 E43 F8 M16 NE8 R5 V8 W16 HEAT SOAK (RTW030) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.6800 IN.MO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	378.0000 IN.ZO		
SCALE =	.0190				

PARAMETRIC DATA

ALPHA =	.000	ELV-LO =	-20.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-20.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 147/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	.000	1.90840	.05982	-.03207	-.00388	-.00043	-.00031	.00226	.65897	.94540	.92164
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA79 B06 C0 E43 F8 M16 N20 R5 V8 W16 (RTW040) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1078.6000 IN.XO		
LREF =	474.8120 IN.	YMRP =	.0000 IN.YO		
BREF =	950.0000 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 148/ 0 RN/L = 1.74 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.30716	.05808	-.00938	-.00096	.00022	-.00025	.00182	.65595	.27676	.14534
7.980	19.000	.37825	.05634	-.00220	-.00081	.00006	-.00019	.00182	.65232	.33930	.17642
7.980	21.000	.44975	.05484	-.00386	-.00114	-.00007	-.00021	.00182	.65509	.39587	.21218
7.980	23.000	.51793	.05665	-.00545	-.00141	-.00011	-.00021	.00182	.65577	.45423	.25435
7.980	25.000	.58299	.05667	-.00771	-.00166	-.00017	-.00023	.00182	.65469	.51345	.30214
7.980	27.000	.67275	.05728	-.01014	-.00180	-.00023	-.00024	.00182	.65545	.57342	.35645
7.980	29.000	.75428	.05785	-.01347	-.00202	-.00027	-.00026	.00182	.65648	.63166	.41628
7.980	31.000	.83827	.05827	-.01759	-.00230	-.00030	-.00032	.00182	.65754	.68938	.48220
7.980	33.000	.92619	.05872	-.02243	-.00247	-.00024	-.00037	.00182	.65882	.74479	.55369
7.980	35.000	1.01610	.05874	-.02827	-.00287	-.00022	-.00043	.00182	.66016	.79866	.63094
7.980	37.000	1.10620	.05867	-.03483	-.00280	-.00036	-.00034	.00182	.66193	.84815	.71259
7.980	39.000	1.19590	.05848	-.04184	-.00301	-.00042	-.00032	.00182	.66279	.89280	.79806
7.980	41.000	1.28320	.05801	-.04943	-.00325	-.00044	-.00033	.00182	.66407	.93191	.88696
7.980	43.000	1.37400	.05745	-.05713	-.00355	-.00041	-.00031	.00182	.66522	.96572	.97910
	GRADIENT	.03555	-.00311	-.00343	-.00010	-.00005	.00000	-.00000	-.00004	.02941	.01958

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 PTCH/PAUSE (RTW041) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8000 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 1.860

RUN NO. 149/ 0 RN/L = 1.76 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.900	15.905	.27346	.05741	-.00425	-.00068	.00025	-.00013	.00199	.65558	.24796	.12881
7.900	19.171	.38925	.05729	-.00261	-.00107	.00019	-.00120	.00201	.65235	.34884	.18194
7.900	23.240	.55092	.05743	-.00938	-.00171	.00000	-.00025	.00196	.65336	.47254	.26541
7.900	27.340	.70177	.05827	-.01313	-.00205	-.00007	-.00029	.00168	.65522	.59662	.37406
7.900	31.417	.87520	.05856	-.01616	-.00257	-.00011	-.00036	.00135	.65756	.71595	.50687
7.900	35.555	1.05800	.05921	-.03147	-.00288	-.00013	-.00035	.00109	.66052	.82720	.66352
7.900	39.622	1.24340	.05856	-.04475	-.00320	-.00024	-.00032	.00083	.66317	.92040	.83805
7.900	43.728	1.42590	.05600	-.06128	-.00416	-.00011	-.00033	.00043	.66575	.99114	1.02670
7.900	45.944	1.40540	.05596	-.06600	-.00432	-.00034	-.00033	.00025	.66648	1.00990	1.09070
	GRADIENT	.03477	.00000	-.00012	-.00014	-.00003	-.00001	-.00000	-.00028	.02940	.01793

OA79 B26 C9 E45 F8 H16 M20 R5 V8 W16 SEALED GAP (RTW042) (10 OCT 74)

REFERENCE DATA

SREF	= 2090.0000 SQ.FT.	XMRP	= 1376.6600	IN.XO	
LREF	= 474.8100 IN.	YMRP	= .0000	IN.YO	
BREF	= 936.6600 IN.	ZMRP	= 375.0000	IN.ZO	
SCALE	= .0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-20.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 1577 0 RN/L = 3.99 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.700	17.000	.29035	.05611	.00742	-.00353	-.00009	.00007	.00208	.64075	.26862	.14080
0.700	19.000	.38059	.05664	.00985	-.00372	-.00025	.00017	.00208	.63982	.32251	.17095
0.700	21.000	.42773	.05687	.01155	-.00116	-.00035	.00023	.00208	.63995	.37894	.20637
0.700	23.000	.49872	.05695	.01267	-.00137	-.00052	.00036	.00208	.64054	.43683	.24727
0.700	25.000	.57180	.05744	.01339	-.00147	-.00059	.00036	.00208	.64128	.49395	.29371
0.700	27.000	.64815	.05783	.01355	-.00171	-.00066	.00037	.00208	.64221	.55125	.34578
0.700	29.000	.72692	.05846	.01373	-.00214	-.00080	.00031	.00208	.64296	.60744	.40355
0.700	31.000	.80758	.05892	.01294	-.00255	-.00071	.00033	.00208	.64401	.66189	.46644
0.700	33.000	.89799	.05916	.01182	-.00249	-.00073	.00029	.00208	.64503	.71908	.53480
0.700	35.000	.97975	.05852	.00948	-.00284	-.00065	.00021	.00208	.64634	.76568	.60757
0.700	37.000	1.06121	.05775	.00669	-.00307	-.00073	.00017	.00208	.64753	.81272	.68474
0.700	39.000	1.14710	.05662	.00368	-.00317	-.00072	.00015	.00208	.64874	.85581	.76588
0.700	41.000	1.23260	.05527	-.00015	-.00350	-.00074	.00010	.00208	.64993	.89399	.85036
0.700	43.000	1.31873	.05352	-.00379	-.00360	-.00073	.00005	.00207	.65098	.92743	.93802
0.700	45.000	1.40230	.05142	-.00785	-.00389	-.00088	-.00002	.00208	.65198	.95524	1.02870
	GRADIENT	.05428	.00115	.00174	-.00113	-.00006	.00004	.00000	.00039	.02825	.01911

DATE 19 MAR 79 TABULATED SOURCE DATA - OA79 (RTW043) (10 OCT 74)

OA79 B26 C0 E43 F0 H16 N00 R5 V0 W16

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1078.6800 IN.RO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0100		

PARAMETRIC DATA

BETA =	.0000	ELV-LO =	.0000
ELV-LI =	.0000	ELV-RI =	.0000
ELV-RO =	.0000	BOFLAP =	.0000
SPOBRK =	55.0000	RUDDER =	.0000
RN/L =	3.5500		

RUN NO. 1587 0 RN/L = 3.55 GRADIENT INTERVAL = 15.0000 25.000

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.0000	17.0000	.32075	.05932	-.00437	-.00060	-.00003	-.00016	.00211	.63487	.29064	.14640
0.0000	19.0000	.36139	.05688	-.00654	-.00065	-.00014	-.00016	.00211	.65619	.34210	.17795
0.0000	21.0000	.40660	.05594	-.00815	-.00110	-.00037	-.00031	.00211	.65476	.40645	.21551
0.0000	23.0000	.45151	.05807	-.00842	-.00143	-.00041	.00015	.00211	.65572	.46735	.25929
0.0000	25.0000	.49778	.05652	-.01075	-.00147	-.00091	.00011	.00211	.65641	.52605	.30809
0.0000	27.0000	.54838	.05667	-.01417	-.00151	-.00160	-.00003	.00211	.65744	.58749	.35327
0.0000	29.0000	.60252	.05798	-.01709	-.00201	-.00156	-.00015	.00211	.65848	.64774	.42490
0.0000	31.0000	.65853	.05709	-.02201	-.00227	-.00153	-.00124	.00211	.65983	.71808	.49179
0.0000	33.0000	.70461	.05709	-.02691	-.00226	-.00147	-.00131	.00211	.66199	.76236	.56411
0.0000	35.0000	1.05825	.05612	-.03531	-.00261	-.00155	-.00136	.00211	.66243	.81718	.64303
0.0000	37.0000	1.12991	.05735	-.04247	-.00281	-.00152	-.00141	.00211	.66374	.86741	.72546
0.0000	39.0000	1.22193	.05626	-.04965	-.00277	-.00140	-.00149	.00211	.66488	.91318	.81187
0.0000	41.0000	1.31219	.05548	-.05875	-.00311	-.00143	-.00148	.00211	.66621	.95382	.90266
0.0000	43.0000	1.41329	.05478	-.06636	-.00342	-.00153	-.00144	.00211	.66732	.98887	.99703
0.0000	45.0000	1.49293	.05553	-.07514	-.00360	-.00191	-.00151	.00211	.66844	1.01795	1.09320
	GRADIENT	.35621	.00111	-.00175	-.00012	-.00016	.00012	.00000	.00113	.02989	.02024

OA79 B26 C9 E43 F8 H16 H29 R5 V8 W16 (RTNO44) (18 OCT 74)

REFERENCE DATA

SREF =	8093.0000 SQ.FT.	XMRP =	1578.6000 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0100				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	SDFLAP =	.000
SPOBRK =	25.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 1507 0 RN/L = 3.56 GRADIENT INTERVAL = 19.00/ 23.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.7701	17.7700	.51493	.05422	-.00549	-.00035	.00003	-.00006	.01204	.65627	.28332	.14392
0.7701	18.7701	.58144	.05485	-.00618	-.00168	-.00015	.00002	.01204	.65477	.34186	.17572
0.7701	21.7701	.65193	.05552	-.00568	-.00122	-.00018	.00003	.01204	.65452	.40071	.21329
0.7701	23.7700	.72526	.05990	-.00732	-.00138	-.00134	.00009	.01204	.65502	.46163	.25677
0.7701	25.7701	.80241	.05643	-.00893	-.00135	-.00144	.00009	.01204	.65558	.52210	.30575
0.7701	27.7701	.88253	.05681	-.01197	-.00169	-.00152	.00015	.01204	.65632	.58290	.36057
0.7701	29.7701	.96576	.05748	-.01568	-.00212	-.00145	-.00004	.01204	.65744	.64189	.42152
0.7701	31.7701	1.05156	.05799	-.01987	-.00213	-.00149	-.00007	.01204	.65893	.69988	.48819
0.7701	33.7701	1.13943	.05843	-.02512	-.00245	-.00149	-.00009	.01204	.66073	.75802	.56164
0.7701	35.7701	1.23013	.05846	-.03132	-.00269	-.00145	-.00014	.01204	.66110	.81033	.63875
0.7701	37.7701	1.32171	.05811	-.03774	-.00332	-.00141	-.00017	.01204	.66231	.86009	.72089
0.7701	39.7701	1.41171	.05791	-.04491	-.00294	-.00143	-.00013	.01204	.66356	.90549	.81724
0.7701	41.7701	1.50181	.05672	-.05246	-.00299	-.00146	-.00013	.01204	.66475	.94593	.89689
0.7701	43.7701	1.59141	.05575	-.05999	-.00326	-.00140	-.00016	.01204	.66578	.97957	.98969
0.7701	45.7701	1.67981	.05453	-.06816	-.00357	-.00131	-.00018	.01204	.66685	1.00780	1.08497
	GRADIENT	.05909	.00128	-.00149	-.00111	-.00096	.00002	-.00000	-.00006	.02967	.02024

OA70 B26 C9 E43 F8 M16 N28 R5 V8 W116 (RTW045) (10 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 85.000 RUDDER = .000
RN/L = 3.550

RUN NO 1007/ 0 RN/L = 3.54 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.31438	.05752	-.00103	-.00065	.00012	-.00012	.01200	.65107	.28354	.14683
8.000	19.000	.38071	.05754	-.00146	-.00080	-.00004	-.00005	.01200	.65129	.34124	.17835
8.000	21.000	.45124	.05721	-.00327	-.00108	-.00011	.00001	.01200	.65235	.40376	.21512
8.000	23.000	.52614	.05725	-.00550	-.00139	-.00028	.00017	.01200	.65374	.46194	.25827
8.000	25.000	.60321	.05773	-.00755	-.00154	-.00040	.00015	.01200	.65437	.52230	.30725
8.000	27.000	.68325	.05805	-.01057	-.00164	-.00044	.00012	.01200	.65560	.58243	.36191
8.000	29.000	.76607	.05881	-.01405	-.00214	-.00137	-.00111	.01200	.65665	.64221	.42322
8.000	31.000	.85256	.05492	-.01676	-.00242	-.00127	-.00119	.01200	.65801	.70144	.48961
8.000	33.000	.94120	.05884	-.02414	-.00251	-.00125	-.00125	.01200	.65936	.75654	.56146
8.000	35.000	1.03150	.05881	-.03087	-.00292	-.00126	-.00125	.01200	.66093	.81104	.63969
8.000	37.000	1.12290	.05829	-.03772	-.00300	-.00151	-.00122	.01200	.66228	.86129	.72197
8.000	39.000	1.21320	.05762	-.04490	-.00294	-.00134	-.00119	.01200	.66356	.91657	.80827
8.000	41.000	1.30420	.05677	-.05290	-.00311	-.00150	-.00120	.01200	.66475	.94702	.89845
8.000	43.000	1.39320	.05574	-.06035	-.00338	-.00151	-.00121	.01200	.66586	.98093	.99395
8.000	45.000	1.48290	.05443	-.06850	-.00359	-.00124	-.00125	.01200	.66688	1.00970	1.08670
	GRADIENT	.03618	.00001	-.00103	-.00012	-.00006	.00012	-.00000	.00145	.02991	.02004

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTV046) (18 OCT 74)

REFERENCE DATA

SREF	=	2000.0000 SQ.FT.	XMRP	=	1078.6800 IN.XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.YO
BREF	=	936.6000 IN.	ZMRP	=	375.0000 IN.ZO
SCALE	=	.0150			

PARAMETRIC DATA

BETA	=	.000	ELV-LO	=	-30.000
ELV-LI	=	-30.000	ELV-RI	=	-30.000
ELV-RO	=	-30.000	BOFLAP	=	.000
SPOBRK	=	55.000	RUDDER	=	.000
RN/L	=	3.550			

RUN NO. 161/ 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLHF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.29474	.05708	.01018	-.00062	.00012	.00044	.00202	.65715	.26517	.14076
8.000	19.000	.33686	.05787	.01257	-.00069	-.00003	.00050	.00202	.63691	.31858	.17090
8.000	21.000	.42379	.05754	.01443	-.00116	-.00020	.00059	.00202	.63739	.37624	.20606
8.000	23.000	.49497	.05792	.01553	-.00128	-.00041	.00072	.00202	.63835	.43299	.24672
8.000	25.000	.56724	.05851	.01665	-.00137	-.00047	.00077	.00202	.63910	.48937	.29276
8.000	27.000	.64301	.05907	.01750	-.00158	-.00050	.00081	.00202	.63989	.54611	.34455
8.000	29.000	.72097	.05979	.01817	-.00196	-.00047	.00079	.00202	.64063	.60159	.40182
8.000	31.000	.80107	.06030	.01802	-.00220	-.00053	.00082	.00202	.64163	.65560	.46427
8.000	33.000	.88346	.06066	.01729	-.00255	-.00052	.00086	.00202	.64271	.70790	.53204
8.000	35.000	.96765	.06063	.01577	-.00293	-.00054	.00090	.00202	.64392	.75788	.60469
8.000	37.000	1.05180	.06022	.01399	-.00316	-.00055	.00092	.00202	.64502	.80380	.68111
8.000	39.000	1.13640	.05954	.01170	-.00316	-.00057	.00095	.00202	.64613	.84566	.76141
8.000	41.000	1.22020	.05849	.00910	-.00331	-.00063	.00098	.00202	.64717	.88253	.84467
8.000	43.000	1.30420	.05723	.00652	-.00352	-.00063	.00102	.00202	.64808	.91477	.93128
8.000	45.000	1.38691	.05557	.00382	-.00387	-.00056	.00102	.00202	.64891	.94097	1.01960
	GRADIENT	.03416	.00015	.00080	-.00010	-.00008	.00004	.00000	.00027	.02814	.01899

DATE 19 MAR 75 TABULATED SOURCE DATA - OA79 (RTW047) (18 OCT 74)

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0150		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	10.000	ELV-RI =	10.000
ELV-RO =	10.000	BDFLAP =	16.300
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.535		

RUN NO. 1627 0 RN/L = 3.55 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.55635	.06354	-.04111	-.00087	.00061	-.00125	.002202	.69232	.32220	.16495
8.000	19.000	.62914	.06582	-.04791	-.00132	.00051	-.00132	.002202	.69097	.38424	.20191
8.000	21.000	.70725	.06855	-.05558	-.00186	.00055	-.00148	.002202	.69021	.44899	.24578
8.000	23.000	.78841	.07142	-.06532	-.00182	.00044	-.00159	.002202	.69074	.51372	.29565
8.000	25.000	.87239	.07403	-.07416	-.00203	.00046	-.00174	.002202	.69043	.57811	.35126
8.000	27.000	.95914	.07676	-.08325	-.00217	.00045	-.00184	.002202	.69026	.64147	.41299
8.000	29.000	1.04793	.07959	-.09258	-.00263	.00058	-.00200	.002202	.69008	.70303	.48073
8.000	31.000	1.13945	.08223	-.10265	-.00282	.00068	-.00210	.002202	.69012	.76291	.55433
8.000	33.000	1.23240	.08472	-.11298	-.00321	.00075	-.00220	.002202	.69018	.81969	.63333
8.000	35.000	1.32773	.08695	-.12379	-.00367	.00093	-.00238	.002202	.69031	.87392	.71807
8.000	37.000	1.42290	.08876	-.13484	-.00379	.00097	-.00242	.002202	.69049	.92321	.80684
8.000	39.000	1.51723	.09036	-.14579	-.00380	.00100	-.00244	.002202	.69064	.96683	.89920
8.000	41.000	1.61100	.09167	-.15675	-.00392	.00106	-.00246	.002202	.69080	1.00473	.99486
8.000	43.000	1.70280	.09272	-.16724	-.00425	.00121	-.00251	.002202	.69087	1.03580	1.09270
8.000	45.000	1.79520	.09355	-.17807	-.00449	.00135	-.00255	.002202	.69100	1.06180	1.19410
8.000	GRADIENT	.03957	.00133	-.00416	-.00014	-.00002	-.00006	-.00000	-.00020	.03206	.02332

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW048) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8130 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0190				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-NI =	.000
ELV-RO =	.000	BDFLAP =	-11.700
SPOBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 190/ 0 RN/L = 1.81 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.90578	.05780	-.00245	-.00381	.00029	-.00025	.00170	.65285	.27557	.14449
7.980	19.000	.37362	.05809	-.00066	-.00134	-.00002	-.00021	.00170	.65054	.33900	.17467
7.980	21.000	.44148	.05636	.00024	-.00139	-.00004	-.00024	.00170	.64969	.39196	.21083
7.980	23.000	.51323	.05662	-.00085	-.00167	-.00009	-.00022	.00170	.65051	.45031	.25266
7.980	25.000	.58859	.05692	-.00176	-.00195	-.00014	-.00024	.00170	.65100	.50939	.30034
7.980	27.000	.66755	.05717	-.00253	-.00212	-.00020	-.00027	.00170	.65130	.56883	.35400
7.980	29.000	.74763	.05762	-.00464	-.00220	-.00027	-.00029	.00170	.65220	.62596	.41286
7.980	31.000	.83181	.05804	-.00783	-.00228	-.00026	-.00035	.00170	.65338	.68310	.47817
7.980	33.000	.91825	.05837	-.01162	-.00268	-.00023	-.00040	.00170	.65457	.73832	.54907
7.980	35.000	1.00630	.05822	-.01642	-.00285	-.00022	-.00045	.00170	.65592	.79090	.62487
7.980	37.000	1.09580	.05812	-.02141	-.00296	-.00037	-.00039	.00170	.65711	.84005	.70579
7.980	39.000	1.18410	.05748	-.02696	-.00327	-.00040	-.00039	.00170	.65830	.88405	.78986
7.980	41.000	1.27260	.05677	-.03311	-.00346	-.00040	-.00040	.00170	.65949	.92317	.87773
7.980	43.000	1.36040	.05582	-.03964	-.00396	-.00038	-.00040	.00170	.66065	.95686	.96861
	GRADIENT	.03526	-.00014	.00006	-.00013	-.00015	.00000	-.00000	-.00018	.02915	.01948

CA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW049) (18 OCT 74)

REFERENCE DATA

SREF =	2890.0000 SQ.FT.	XMRP =	1076.8800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6400 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0191		

PARAMETRIC DATA

BETA =	.0000	ELV-LO =	.0000
ELV-LI =	.0000	ELV-RI =	.0000
ELV-RO =	.0000	BDFLAP =	16.3000
SPOBRK =	55.0000	RUDDER =	.0000
RN/L =	1.8800		

RUN NO. 1517.0 RN/L = 1.83 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
.9900	17.0000	.32991	.05995	-.01734	-.00106	.00019	-.00026	.00171	.66976	.28949	.15073
.9900	19.0000	.39114	.06820	-.01982	-.00152	.00005	-.00021	.00171	.66853	.35025	.18426
.9900	21.0000	.46496	.08088	-.02544	-.00178	-.00004	-.00021	.00171	.67003	.41226	.22346
.9900	23.0000	.54079	.09244	-.03123	-.00122	-.00013	-.00020	.00171	.67115	.47340	.26878
.9900	25.0000	.62087	.06378	-.03707	-.00154	-.00014	-.00025	.00171	.67187	.53574	.32019
.9900	27.0000	.70358	.06540	-.04343	-.00181	-.00017	-.00032	.00171	.67262	.59720	.37769
.9900	29.0000	.78855	.06712	-.04985	-.00194	-.00016	-.00037	.00171	.67317	.65714	.44100
.9900	31.0000	.87555	.06880	-.05677	-.00223	-.00015	-.00044	.00171	.67378	.71515	.50974
.9900	33.0000	.96585	.07014	-.06444	-.00263	-.00011	-.00052	.00171	.67447	.77183	.58486
.9900	35.0000	1.05690	.07120	-.07284	-.00283	-.00007	-.00059	.00171	.67521	.82493	.66455
.9900	37.0000	1.14890	.07221	-.08136	-.00290	-.00026	-.00053	.00171	.67598	.87414	.74911
.9900	39.0000	1.24020	.07291	-.09012	-.00318	-.00029	-.00052	.00171	.67666	.91794	.83715
.9900	41.0000	1.33180	.07338	-.09917	-.00338	-.00033	-.00052	.00171	.67734	.95620	.92844
.9900	43.0000	1.42170	.07374	-.10820	-.00378	-.00031	-.00053	.00171	.67794	.98878	1.02290
	GRADIENT	.03748	.00034	-.00254	-.00008	-.00004	.00000	-.00000	.00034	.03078	.02117

OA70 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW050) (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.8000 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.0000 IN. ZMRP = 378.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = 10.000 ELV-RI = 10.000
ELV-RO = 10.000 BDFLAP = 16.300
SPDBRK = 55.000 RUDDER = .000
RN/L = 1.880

RUN NO. 152/ 0 RN/L = 1.88 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.34542	.06455	-.03746	-.00124	.00041	-.00088	.00169	.68979	.31145	.16272
7.980	19.000	.41980	.06575	-.04245	-.00089	.00037	-.00096	.00169	.68709	.37552	.19884
7.980	21.000	.49790	.06790	-.05184	-.00147	.00027	-.00101	.00169	.68821	.44064	.24145
7.980	23.000	.57819	.06970	-.08174	-.00182	.00031	-.00110	.00169	.68856	.50499	.29007
7.980	25.000	.66170	.07209	-.06999	-.00203	.00033	-.00121	.00169	.68883	.56924	.34498
7.980	27.000	.74827	.07516	-.07922	-.00237	.00034	-.00135	.00169	.68887	.63264	.40659
7.980	29.000	.83661	.07804	-.08876	-.00252	.00037	-.00148	.00169	.68895	.69388	.47385
7.980	31.000	.92825	.08114	-.09869	-.00273	.00047	-.00164	.00169	.68904	.75368	.54763
7.980	33.000	1.02130	.08389	-.10941	-.00298	.00053	-.00176	.00169	.68934	.81085	.62661
7.980	35.000	1.11570	.08638	-.12046	-.00344	.00065	-.00192	.00169	.68965	.86438	.71070
7.980	37.000	1.21050	.08868	-.13150	-.00355	.00057	-.00188	.00169	.68989	.91536	.79930
7.980	39.000	1.30480	.09087	-.14266	-.00381	.00081	-.00193	.00169	.69015	.95686	.89177
7.980	41.000	1.39740	.09273	-.15435	-.00422	.00063	-.00198	.00169	.69056	.99382	.98679
7.980	43.000	1.48980	.09433	-.16497	-.00472	.00071	-.00204	.00169	.69067	1.02510	1.08490
	GRADIENT	.03955	.00095	-.00417	-.00013	-.00001	-.00004	-.00000	-.00002	.03225	.02279

OA79 B26 C8 E43 F8 H16 N28 R5 V8 W16 (RTW051) (18 OCT 74)

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	74.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	575.0000 IN.ZO
SCALE =	.0150		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	10.000	ELV-RI =	10.000
ELV-RO =	10.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 1537 0 RN/L = 1.84 GRADIENT INTERVAL = 15.000/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
.9800	17.0000	.35906	.06128	-.02434	-.00115	.00040	-.00087	.00175	.67676	.30059	.15598
.9800	19.0000	.40524	.06208	-.02584	-.00107	.00027	-.00096	.00175	.67335	.36296	.19063
.9800	21.0000	.47782	.06250	-.03034	-.00122	.00031	-.00109	.00175	.67327	.42350	.22951
.9800	23.0000	.55574	.06320	-.03495	-.00177	.00028	-.00119	.00175	.67298	.48687	.27532
.9800	25.0000	.63518	.06452	-.04004	-.00196	.00032	-.00128	.00175	.67310	.54840	.32691
.9800	27.0000	.71889	.06592	-.04521	-.00227	.00034	-.00140	.00175	.67305	.61060	.38510
.9800	29.0000	.80385	.06761	-.05151	-.00249	.00038	-.00150	.00175	.67349	.67027	.44884
.9800	31.0000	.89252	.06928	-.05812	-.00264	.00045	-.00163	.00175	.67388	.72936	.51907
.9800	33.0000	.98340	.07097	-.06617	-.00312	.00054	-.00175	.00175	.67467	.78610	.59512
.9800	35.0000	1.07620	.07251	-.07485	-.00353	.00061	-.00187	.00175	.67551	.84005	.67649
.9800	37.0000	1.16970	.07351	-.08341	-.00362	.00053	-.00183	.00175	.67616	.88990	.76263
.9800	39.0000	1.26030	.07448	-.09284	-.00384	.00053	-.00187	.00175	.67703	.93258	.85103
.9800	41.0000	1.35260	.07529	-.10247	-.00424	.00060	-.00192	.00175	.67780	.97142	.94421
.9800	43.0000	1.44490	.07585	-.11223	-.00469	.00065	-.00195	.00175	.67852	1.00433	1.04030
	GRADIENT	.05774	.00038	-.00212	-.00312	-.00001	-.00005	-.00000	-.00038	.03098	.02133

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 (RTW052) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 1547 0 RN/L = 1.86 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.37759	.07830	-.06217	-.00135	.00033	-.00042	.00169	.71047	.33820	.18527
7.980	19.000	.43358	.08061	-.06816	-.00101	.00031	-.00047	.00169	.70519	.40263	.22389
7.980	21.000	.53418	.08571	-.07576	-.00148	.00029	-.00062	.00169	.70209	.46868	.26957
7.980	23.000	.61584	.08731	-.08462	-.00172	.00027	-.00065	.00169	.70046	.53277	.32099
7.980	25.000	.69935	.09098	-.09308	-.00187	.00022	-.00068	.00169	.69888	.59536	.37801
7.980	27.000	.78672	.09483	-.10193	-.00197	.00018	-.00075	.00169	.69759	.65792	.44166
7.980	29.000	.87497	.09859	-.11064	-.00203	.00014	-.00076	.00169	.69644	.71747	.51042
7.980	31.000	.96572	.10232	-.12010	-.00233	.00018	-.00081	.00169	.69568	.77908	.58509
7.980	33.000	1.05910	.10596	-.12990	-.00253	.00018	-.00080	.00169	.69515	.83054	.66570
7.980	35.000	1.15490	.10916	-.14054	-.00291	.00011	-.00082	.00169	.69473	.88268	.75131
7.980	37.000	1.24650	.11216	-.15104	-.00296	.00003	-.00083	.00169	.69443	.92963	.84097
7.980	39.000	1.34240	.11488	-.16171	-.00336	.00007	-.00090	.00169	.69425	.97092	.93406
7.980	41.000	1.43550	.11728	-.17261	-.00358	.00007	-.00092	.00169	.69417	1.00630	1.03020
7.980	43.000	1.52720	.11927	-.18402	-.00436	.00021	-.00101	.00169	.69425	1.03591	1.12910
	GRADIENT	.04129	.00160	-.01391	-.00009	-.00001	-.00003	.00000	-.00140	.03222	.02413

DATE 19 MAR 75 TABULATED SOURCE DATA - OA79

(RTW033) (18 OCT 74)

OA79 B26 C9 E43 F8 M16 N28 R5 V5 W116

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BDFLAP =	16.300
SPDBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 1557 0 RN/L = 1.86 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.39254	.07993	-.07532	-.00111	.00049	-.00073	.00168	.72049	.33202	.19121
7.980	19.000	.47010	.08396	-.08669	-.00087	.00043	-.00078	.00168	.71775	.41716	.23245
7.980	21.000	.55510	.08885	-.09844	-.00149	.00042	-.00084	.00165	.71515	.48639	.28188
7.980	23.000	.64378	.09334	-.11102	-.00175	.00044	-.00086	.00168	.71366	.55338	.33629
7.980	25.000	.72893	.09847	-.12360	-.00189	.00040	-.00089	.00168	.71234	.61863	.39712
7.980	27.000	.81848	.10349	-.13641	-.00204	.00038	-.00096	.00168	.71124	.68229	.46379
7.980	29.000	.90886	.10847	-.14818	-.00227	.00039	-.00100	.00168	.70984	.74319	.53597
7.980	31.000	1.00290	.11330	-.16114	-.00254	.00044	-.00104	.00168	.70908	.80375	.61333
7.980	33.000	1.09890	.11788	-.17343	-.00297	.00047	-.00105	.00168	.70799	.85740	.69736
7.980	35.000	1.19510	.12232	-.18650	-.00328	.00049	-.00107	.00168	.70734	.90885	.78569
7.980	37.000	1.29240	.12654	-.19952	-.00340	.00039	-.00105	.00168	.70673	.95599	.87883
7.980	39.000	1.38710	.13141	-.21214	-.00375	.00046	-.00110	.00168	.70620	.99590	.97426
7.980	41.000	1.48190	.13593	-.22484	-.00407	.00050	-.00113	.00168	.70575	1.03090	1.07330
7.980	43.000	1.57690	.13691	-.23905	-.00485	.00076	-.00122	.00168	.70550	1.05920	1.17500
	GRADIENT	.04213	.00232	-.00604	-.00012	-.00001	-.00002	-.00000	-.00102	.03347	.02578

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW054) (10 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6000 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6000 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	.0191		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-40.000
ELV-LI =	-40.000	ELV-RI =	-40.000
ELV-RO =	-40.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	1.860		

RUN NO. 156/ 0 RN/L = 1.87 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.980	17.000	.28878	.06179	.01195	-.00113	.00023	.00039	.00176	.63449	.23552	.14274
7.980	19.000	.34780	.05992	.01425	-.00067	.00005	.00042	.00176	.63481	.30934	.16989
7.980	21.000	.41011	.05955	.01600	-.00098	-.00002	.00045	.00176	.63574	.36711	.20450
7.980	23.000	.48556	.05965	.01757	-.00113	-.00010	.00050	.00176	.63658	.42366	.24463
7.980	25.000	.55772	.06001	.01928	-.00133	-.00019	.00051	.00176	.63718	.48010	.29009
7.980	27.000	.63183	.06055	.02149	-.00172	-.00019	.00050	.00176	.63797	.53547	.34079
7.980	29.000	.71781	.06139	.02110	-.00194	-.00018	.00050	.00176	.63894	.58929	.39684
7.980	31.000	.78687	.06213	.02136	-.00215	-.00020	.00051	.00175	.63992	.64252	.45845
7.980	33.000	.86841	.06258	.02173	-.00253	-.00018	.00047	.00175	.64071	.69423	.52545
7.980	35.000	.99183	.06292	.02142	-.00271	-.00029	.00051	.00175	.64202	.74279	.59692
7.980	37.000	1.03450	.06306	.01923	-.00273	-.00038	.00053	.00175	.64308	.78808	.67282
7.980	39.000	1.11710	.06297	.01761	-.00304	-.00046	.00053	.00175	.64412	.82851	.75194
7.980	41.000	1.19990	.06258	.01548	-.00319	-.00047	.00056	.00175	.64518	.86455	.83447
7.980	43.000	1.28153	.06198	.01353	-.00349	-.00052	.00062	.00175	.64604	.89492	.91928
7.980	45.000	1.36999	.06171	.01082	-.00400	-.00039	.00064	.00175	.64731	.92158	1.00890
	GRADIENT	.05405	-.00319	.00191	-.00014	-.00005	.00002	-.00000	.00036	.02817	.01847

OA79 S26 C9 E43 F8 H16 N28 R5 V8 W116 (RTW155) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8000 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = 10.000 ELV-RI = 10.000
ELV-RO = 10.000 BDFLAP = 16.300
SPDBRK = 55.000 RUDDER = .000
RN/L = .590

RUN NO. 1637 0 RN/L = .59 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CLN	CAB	XCP/L	CLF	CDF
7.900	17.000	.34766	.06203	-.03971	-.00035	.00133	-.00094	.00114	.68240	.31433	.16097
7.900	19.000	.40990	.06747	-.04731	.00003	.00142	-.00109	.00115	.68644	.36190	.19597
7.900	21.000	.47560	.07148	-.04671	-.00026	.00147	-.00122	.00115	.68618	.41671	.23653
7.900	23.000	.55162	.07339	-.05415	-.00036	.00145	-.00134	.00115	.68603	.47909	.28309
7.900	25.000	.63369	.07415	-.06000	-.00089	.00155	-.00144	.00116	.68476	.54298	.33501
7.900	27.000	.71696	.07455	-.06600	-.00130	.00156	-.00154	.00116	.68482	.60497	.39192
7.900	29.000	.79992	.07705	-.07661	-.00136	.00160	-.00159	.00116	.68516	.66227	.45520
7.900	31.000	.89074	.07970	-.08558	-.00164	.00161	-.00167	.00116	.68527	.72247	.52730
7.900	33.000	.98131	.08273	-.09541	-.00203	.00164	-.00174	.00116	.68570	.77794	.60384
7.900	35.000	1.07507	.08911	-.10504	-.00236	.00169	-.00179	.00116	.68585	.83247	.68668
7.900	37.000	1.16760	.08756	-.11643	-.00263	.00169	-.00187	.00117	.68664	.87981	.77262
7.900	39.000	1.25760	.08972	-.12717	-.00317	.00176	-.00191	.00117	.68714	.92086	.86115
7.900	41.000	1.35191	.09795	-.13841	-.00355	.00176	-.00193	.00117	.68764	.95958	.95463
7.900	43.000	1.45850	.09269	-.14772	-.00416	.00187	-.00196	.00117	.68772	.98867	1.04870
	GRADIENT	.03580	.00191	-.00362	-.00017	.00012	-.00016	.00000	.00022	.02872	.02176

OA78 B26 C9 E43 F8 M16 N28 R5 V8 W116 (RTW056) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = 10.000 ELV-RI = 10.000
ELV-RO = 10.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = .900

RUN NO. 164/ 0 RN/L = .91 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.990	17.000	.35126	.06266	-.02325	-.00037	.00047	-.00097	.00114	.67578	.29751	.15648
7.990	19.000	.38274	.06756	-.02970	-.00041	.00055	-.00111	.00114	.67792	.33923	.18826
7.990	21.000	.49964	.06891	-.03106	-.00079	.00051	-.00122	.00114	.67541	.40441	.22905
7.990	23.000	.55365	.06962	-.03513	-.00102	.00055	-.00134	.00114	.67412	.46421	.27268
7.990	25.000	.61537	.06959	-.03731	-.00157	.00063	-.00145	.00114	.67230	.52657	.32211
7.990	27.000	.69138	.06947	-.04315	-.00182	.00064	-.00155	.00114	.67288	.58448	.37578
7.990	29.000	.77417	.07012	-.04895	-.00214	.00068	-.00159	.00114	.67319	.64311	.43666
7.990	31.000	.85975	.07224	-.05597	-.00239	.00067	-.00165	.00114	.67388	.69973	.50471
7.990	33.000	.94972	.07449	-.06310	-.00262	.00069	-.00173	.00114	.67437	.75594	.57973
7.990	35.000	1.04160	.07630	-.06997	-.00294	.00073	-.00180	.00114	.67464	.80945	.65993
7.990	37.000	1.12951	.07737	-.07977	-.00315	.00076	-.00189	.00114	.67592	.85531	.74140
7.990	39.000	1.22190	.07817	-.08728	-.00374	.00088	-.00193	.00114	.67623	.89973	.82918
7.990	41.000	1.30991	.07846	-.09799	-.00415	.00084	-.00202	.00114	.67746	.93684	.91835
7.990	43.000	1.39680	.07825	-.11587	-.00448	.00101	-.00205	.00114	.67778	.96948	1.01100
	GRADIENT	.03590	.00178	-.00171	-.00015	.00002	-.00006	-.00000	-.00054	.02916	.02078

DATE 10 MAR 75 TABULATED SOURCE DATA - OA79

(RTW057) (18 OCT 74)

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = .900

RUN NO. 165/ 0 RN/L = .90 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.900	17.000	.31706	.06456	-.00728	-.00008	-.00009	.00015	-.00091	.65888	.26894	.14974
7.900	19.000	.35741	.06719	-.01499	-.00055	-.00112	.00005	-.00091	.66540	.31807	.17989
7.900	21.000	.45307	.06767	-.00921	-.00079	-.00118	.00012	-.00091	.65778	.38080	.21866
7.900	23.000	.49076	.06701	-.01220	-.00072	-.00127	.00016	-.00091	.65897	.43194	.25712
7.900	25.000	.57067	.06529	-.01079	-.00012	-.00124	.00014	-.00091	.65680	.49777	.30415
7.900	27.000	.65444	.06367	-.01453	-.00125	-.00128	.00014	-.00092	.65813	.55421	.35384
7.900	29.000	.73600	.06420	-.01610	-.00137	-.00135	.00110	-.00092	.65799	.61342	.41352
7.900	31.000	.81807	.06497	-.01955	-.00103	-.00144	.00114	-.00092	.65874	.66804	.47720
7.900	33.000	.91475	.06509	-.02536	-.00217	-.00145	.00114	-.00092	.66026	.72208	.54801
7.900	35.000	.99149	.06672	-.03012	-.00244	-.00149	.00119	-.00092	.66114	.77509	.62278
7.900	37.000	1.07807	.06654	-.03570	-.00314	-.00156	.00122	-.00092	.66213	.82133	.70199
7.900	39.000	1.16600	.06012	-.04204	-.00317	-.00166	.00127	-.00092	.66345	.86535	.78568
7.900	41.000	1.25000	.06441	-.19137	-.00336	-.00174	.00133	-.00092	.66472	.90414	.87130
7.900	43.000	1.34110	.06312	-.15070	-.00414	-.00171	.00132	-.00092	.66586	.93783	.96072
	GRADIENT	.01540	.00011	-.00121	-.00011	-.00002	.00000	-.00000	-.00353	.02868	.01093

DATE 19 MAR 75 TABULATED SOURCE DATA - OA79 PAGE 52

OA79 B26 C9 E43 F8 M16 N20 R5 V8 W18 (RTW058) (16 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = 16.300
SPDBRK = 55.000 RUDDER = .000
RN/L = .900

RUN NO. 166/ 0 RN/L = .90 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.900	17.000	.29026	.07014	-.02415	.00057	.00003	.00004	-.00071	.67966	.26560	.15457
7.900	19.000	.39702	.06200	-.01755	-.00026	-.00006	.00014	-.00071	.66800	.35005	.18817
7.900	21.000	.44538	.07006	-.02496	-.00032	-.00007	.00004	-.00071	.67050	.39037	.22506
7.900	23.000	.51650	.06001	-.03233	-.00056	-.00010	.00004	-.00071	.67298	.44821	.26620
7.900	25.000	.60155	.06055	-.03367	-.00083	-.00013	.00012	-.00071	.67058	.51531	.31591
7.900	27.000	.67038	.06094	-.03845	-.00101	-.00017	.00012	-.00071	.67077	.57403	.36986
7.900	29.000	.76315	.07037	-.04355	-.00127	-.00120	.00014	-.00071	.67095	.63535	.43153
7.900	31.000	.84666	.07191	-.05044	-.00157	-.00126	.00016	-.00071	.67187	.68870	.49770
7.900	33.000	.93570	.07545	-.05790	-.00196	-.00129	.00008	-.00071	.67276	.74314	.57017
7.900	35.000	1.02440	.07425	-.06516	-.01241	-.00136	.00011	-.00071	.67335	.79655	.64839
7.900	37.000	1.11290	.07562	-.07511	-.01285	-.00143	.00010	-.00072	.67413	.84296	.72990
7.900	39.000	1.21900	.07540	-.08215	-.01292	-.00142	.00117	-.00071	.67504	.88744	.81566
7.900	41.000	1.29430	.07655	-.08934	-.01332	-.00156	.00110	-.00072	.67551	.92659	.90691
7.900	43.000	1.37720	.07670	-.10123	-.01360	-.00148	.00121	-.00171	.67699	.95493	.99537
	GRADIENT	.03036	.00325	-.00170	-.00015	-.00002	-.00000	-.00000	-.00156	.02957	.02004

OA79 B26 C9 E43 F8 H16 K.8 R5 V8 W16 (RTM0390) (18 OCT /4)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6000 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	916.6000 IN.	ZMRP =	575.0000 IN.ZO
SCALE =	.0100		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BOFLAP =	-11.700
SPOBAR =	55.000	RUDDER =	.000
RN/L =	.900		

RUN NO. 1677.0 RN/L = .90 GRADIENT INTERVAL = 15.000/ 25.00

MACH	ALPHA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CL'	CDF
.9000	17.0000	.29722	.06417	-.00655	.00041	-.00000	.00000	-.00392	.65070	.26947	.14827
.9000	19.0000	.37416	.08392	-.01227	-.00044	.00001	.00000	-.00392	.65229	.33407	.17904
.9000	21.0000	.43882	.06172	-.01127	-.00036	-.00004	.00000	-.00392	.65197	.38756	.21486
.9000	23.0000	.51654	.06271	-.01348	-.00035	-.00016	.00000	-.00392	.65249	.44159	.25557
.9000	25.0000	.57295	.06529	-.01560	-.00054	-.00011	.00002	-.00392	.65361	.49168	.30131
.9000	27.0000	.64792	.06330	-.01655	-.00033	-.00014	.00000	-.00392	.65367	.54852	.35063
.9000	29.0000	.72641	.06577	-.01893	-.00114	-.00021	.00001	-.00392	.65400	.60442	.40795
.9000	31.0000	.80865	.06425	-.01154	-.00147	-.00029	.00005	-.00392	.65511	.68059	.47155
.9000	33.0000	.89315	.06917	-.01451	-.00172	-.00031	.00007	-.00393	.65593	.71380	.54101
.9000	35.0000	.97886	.06492	-.01859	-.00215	-.00030	.00011	-.00393	.65693	.76542	.61520
.9000	37.0000	1.06680	.06515	-.02225	-.00263	-.00044	.00010	-.00393	.65761	.81290	.69390
.9000	39.0000	1.15580	.06464	-.02617	-.00291	-.00063	.0001	-.00392	.65924	.85535	.77448
.9000	41.0000	1.23780	.06347	-.03375	-.00344	-.00055	.00010	-.00393	.65996	.89256	.85999
.9000	43.0000	1.32221	.06214	-.04166	-.00368	-.00055	.00020	-.00393	.66126	.92461	.94710
	GRADIENT	.05418	.00122	.00913	-.00030	-.00002	-.00001	.00000	-.00045	.02030	.01913

OA79 B2 C9 E43 F8 H16 N28 R5 V8 W16 (RTVDGD) (18 OCT 74)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.6800 IN.XO		
LREF =	474.0100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0195				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BOFLAP =	10.300
SPOBRK =	55.000	RUDDER =	.000
RN/L =	.900		

RUN NO. 168/ 0 RN/L = .90 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
7.993	17.000	.37528	.08403	-.06925	.00038	.00024	-.00068	-.00109	.71787	.33431	.19008
7.993	19.000	.49154	.08775	-.07644	-.00018	.00026	-.00070	-.00109	.71239	.39742	.22965
7.993	21.000	.52828	.09385	-.08709	-.00020	.00022	-.00067	-.00109	.71052	.48063	.27413
7.993	23.000	.60949	.09406	-.09694	-.00055	.00019	-.00066	-.00109	.70848	.52429	.32473
7.993	25.000	.69366	.09653	-.10690	-.00076	.00017	-.00062	-.00109	.70666	.58788	.38064
7.993	27.000	.78101	.10090	-.11621	-.00126	.00011	-.00061	-.00109	.70470	.65008	.44448
7.993	29.000	.86715	.10551	-.12856	-.00136	.00006	-.00058	-.00109	.70450	.70728	.51268
7.993	31.000	.95746	.11035	-.14010	-.00174	.00003	-.00055	-.00109	.70379	.76387	.58771
7.993	33.000	1.05210	.11521	-.15316	-.00213	.00004	-.00054	-.00109	.70352	.81962	.66964
7.993	35.000	1.14690	.11991	-.16413	-.00256	.00006	-.00052	-.00109	.70261	.87068	.75604
7.993	37.000	1.23970	.12430	-.17755	-.00304	.00003	-.00051	-.00109	.70264	.91530	.84536
7.993	39.000	1.33370	.12827	-.18940	-.00327	.00001	-.00050	-.00109	.70220	.95578	.93903
7.993	41.000	1.42610	.13179	-.20286	-.00380	-.00013	-.00046	-.00109	.70229	.98982	1.03510
7.993	43.000	1.51660	.13457	-.21430	-.00390	-.00008	-.00036	-.00109	.70194	1.01740	1.13270
	GRADIENT	.03979	.00156	-.00479	-.00015	-.00001	.00001	.00000	-.00132	.03170	.02381

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW061) (18 OCT /4)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1078.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6600 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	20.000
ELV-LI =	20.000	ELV-RI =	20.000
ELV-RO =	20.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/' =	.500		

RUN NO. 169/ 0 RN/L = .50 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
.900	17.000	.35990	.08195	-.05980	.00192	.00044	-.00070	-.00106	.71111	.32034	.18318
.900	19.000	.43439	.08394	-.06495	.00176	.00040	-.00071	-.00105	.71499	.38340	.22079
.900	21.000	.51328	.08657	-.06978	.00151	.00039	-.00071	-.00106	.69999	.44817	.26477
.900	23.000	.58958	.09002	-.07737	.00110	.00031	-.00072	-.00106	.69825	.50754	.31324
.900	25.000	.66849	.09186	-.08373	-.00044	.00029	-.00069	-.00106	.69598	.56795	.36619
.900	27.000	.75422	.09434	-.09207	-.00073	.00025	-.00069	-.00106	.69487	.62918	.42647
.900	29.000	.83864	.09789	-.10056	-.00079	.00023	-.00063	-.00106	.69407	.68803	.49219
.900	31.000	.92622	.10158	-.10939	-.00128	.00020	-.00057	-.00106	.69341	.74161	.56411
.900	33.000	1.01070	.10526	-.11907	-.00172	.00015	-.00053	-.00106	.69299	.79644	.64272
.900	35.000	1.11230	.10858	-.12843	-.00218	.00022	-.00053	-.00106	.69243	.84890	.72695
.900	37.000	1.21410	.11207	-.13886	-.00255	.00018	-.00052	-.00106	.69237	.89422	.81417
.900	39.000	1.29290	.11489	-.14897	-.00315	.00024	-.00055	-.00106	.69234	.93250	.90296
.900	41.000	1.38091	.11736	-.16116	-.00313	.00019	-.00054	-.00106	.69290	.96488	.99426
.900	43.000	1.47275	.11866	-.17188	-.00316	.00002	-.00040	-.00106	.69264	.99615	1.09120
	GRADIENT	.03672	.00134	-.00301	-.00017	-.00002	.00000	-.00000	-.00185	.03097	.02293

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W16 (RTW062) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1078.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-40.000
ELV-LI =	-40.000	ELV-RI =	-40.000
ELV-RO =	-40.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	.900		

RUN NO. 170/ 0 RN/L = .91 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
1.900	17.000	.28780	.06524	.01249	.00024	-.00023	.00034	-.00110	.63401	.25873	.14462
1.900	19.000	.33683	.06949	.00625	-.00035	-.00027	.00039	-.00110	.64314	.29587	.17537
1.900	21.000	.40494	.07039	.01283	-.00049	-.00033	.00043	-.00110	.63831	.35282	.21084
1.900	23.000	.46769	.07131	.01406	-.00080	-.00036	.00044	-.00110	.63890	.40265	.24838
1.900	25.000	.54462	.06916	.01637	-.00125	-.00035	.00044	-.00110	.63890	.46436	.29285
1.900	27.000	.61553	.06737	.01833	-.00153	-.00037	.00045	-.00110	.63900	.51786	.33948
1.900	29.000	.68966	.06753	.02127	-.00182	-.00043	.00050	-.00110	.63914	.57045	.39341
1.900	31.000	.76523	.06842	.02143	-.00217	-.00047	.00052	-.00110	.64013	.62069	.45277
1.900	33.000	.84482	.06931	.02005	-.00262	-.00050	.00056	-.00110	.64122	.67078	.51824
1.900	35.000	.92562	.06953	.02037	-.00293	-.00053	.00059	-.00110	.64185	.71834	.58787
1.900	37.000	1.00553	.07015	.01885	-.00336	-.00061	.00061	-.00110	.64305	.76064	.66102
1.900	39.000	1.08597	.06929	.01804	-.00340	-.00064	.00064	-.00110	.64384	.80033	.73725
1.900	41.000	1.16539	.06897	.01532	-.00407	-.00074	.00066	-.00110	.64492	.83470	.81697
1.900	43.000	1.24543	.06784	.01526	-.00422	-.00077	.00066	-.00110	.64544	.86487	.89926
	GRADIENT	.03222	.00068	.00078	-.00017	-.00002	.00001	.00000	.00028	.02610	.01847

DATE 18 MAR 75 TABULATED SOURCE DATA - CA79 (RTW063) (18 OCT 74)

CA79 B26 C9 E43 F8 H16 N28 R5 V8 W16

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1376.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	575.0000 IN.ZO
SCALE =	.0150		

PARAMETRIC DATA

BETA =	.0000	ELV-LO =	.0000
ELV-LI =	-40.0000	ELV-RI =	-40.0000
ELV-RO =	-20.0000	BOFLAP =	.0000
SPOERR =	55.0000	RUDDER =	.0000
RNYL =	3.590		

RUN NO. 1717 0 RNYL = 3.90 GRADIENT INTERVAL = 15.000/ 25.000

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	1.0000	.29851	.03610	.00749	-.00043	.00012	-.00119	.00214	.64062	.26917	.14093
8.000	13.0000	.36248	.03655	.00376	-.00048	-.00035	.00136	.00214	.63996	.32432	.17148
8.000	21.0000	.42914	.03699	.00116	-.00078	-.00019	.00159	.00214	.64031	.38022	.20699
8.000	23.0000	.49935	.03747	.00216	-.00086	-.00041	.00182	.00214	.64093	.43718	.24800
8.000	25.0000	.57264	.03802	.00337	-.00102	-.00049	.00204	.00214	.64150	.49447	.29460
8.000	27.0000	.64847	.03871	.00555	-.00121	-.00054	.00220	.00214	.64221	.55114	.34671
8.000	29.0000	.72722	.03940	.00363	-.00154	-.00049	.00235	.00214	.64301	.60724	.40431
8.000	31.0000	.80757	.04022	.00298	-.00172	-.00057	.00262	.00214	.64399	.66121	.46755
8.000	33.0000	.89139	.04075	.00210	-.00209	-.00062	.00289	.00214	.64491	.71365	.53589
8.000	35.0000	.97452	.04164	.00025	-.00253	-.00061	.00311	.00214	.64604	.76350	.60864
8.000	37.0000	1.05991	.04225	.00030	-.00247	-.00065	.00334	.00214	.64714	.80990	.68575
8.000	39.0000	1.14410	.04375	.00541	-.00254	-.00071	.00359	.00214	.64818	.85153	.76645
8.000	41.0000	1.22895	.04587	.00238	-.00267	-.00081	.00382	.00214	.64921	.88850	.85050
8.000	43.0000	1.31275	.04793	-.00184	-.00282	-.00086	.00403	.00214	.65016	.92051	.93760
8.000	45.0000	1.39561	.05645	-.00415	-.00326	-.00086	.00421	.00214	.65101	.94692	1.02670
	GRADIENT	.03426	.00324	.00168	-.00038	-.00038	.00010	-.00000	.00014	.02818	.01919

OA79 B26 C9 E43 F8 H16 N28 R5 V8 W16 (RTW065) (18 OCT 74)

REFERENCE DATA

SREF = 2691.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 579.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-20.000	BOFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 172/ 0 RN/L = 3.52 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.90690	.05903	.00181	-.00046	.00008	.00065	.00214	.64889	.27740	.14236
8.000	19.000	.97177	.05560	.00188	-.00054	-.00007	.00080	.00214	.64801	.33341	.17361
8.000	21.000	.44054	.05585	.00248	-.00083	-.00019	.00094	.00214	.64781	.39126	.21001
8.000	23.000	.51357	.05604	.00129	-.00125	-.00034	.00111	.00214	.64896	.45085	.25225
8.000	25.000	.58939	.05633	.00019	-.00131	-.00039	.00118	.00214	.64977	.51036	.30014
8.000	27.000	.66814	.05673	-.00158	-.00153	-.00044	.00126	.00214	.65077	.56956	.35388
8.000	29.000	.74939	.05719	-.00394	-.00175	-.00042	.00131	.00214	.65184	.62770	.41333
8.000	31.000	.83348	.05762	-.00692	-.00208	-.00044	.00145	.00213	.65296	.68475	.47866
8.000	33.000	.91973	.05787	-.01102	-.00229	-.00048	.00160	.00213	.65432	.73983	.54946
8.000	35.000	1.00830	.05714	-.01533	-.00262	-.00040	.00159	.00213	.65573	.79301	.62539
8.000	37.000	1.09741	.05669	-.02116	-.00274	-.00044	.00180	.00213	.65701	.84229	.70569
8.000	39.000	1.18803	.05576	-.02724	-.00275	-.00048	.00195	.00213	.65837	.88658	.78969
8.000	41.000	1.27593	.05471	-.03365	-.00280	-.00061	.00211	.00213	.65963	.92635	.87776
8.000	43.000	1.36275	.05332	-.04176	-.00292	-.00058	.00222	.00213	.66093	.96025	.96835
8.000	45.000	1.45175	.05140	-.04958	-.00313	-.00057	.00227	.00213	.66199	.98947	1.06220
	GRADIENT	.03534	.00015	-.00039	-.00012	-.00006	.00007	-.00000	.00014	.02917	.01971

CA79 B26 C9 E43 F8 H16 H29 R3 V8 W16 (RTWJ66) (18 OCT 74)

REFERENCE DATA

SREF =	2691.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	936.6800 IN.	ZMRP =	579.3000 IN.ZO
SCALE =	.0139		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1737 D RN/L = 3.52 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	Cy	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.33179	.03547	.00498	-.00352	-.00031	.00152	.00214	.64381	.27238	.14128
0.000	19.000	.36931	.03582	.00729	-.00367	-.00016	.00168	.00214	.64252	.32696	.17161
0.000	21.000	.43222	.03614	.00865	-.00399	-.00028	.00181	.00214	.64251	.38340	.20730
0.000	23.000	.50390	.03627	.00912	-.00417	-.00044	.00199	.00214	.64330	.44186	.24868
0.000	25.000	.57784	.03664	.00934	-.00432	-.00057	.00206	.00214	.64394	.49958	.29545
0.000	27.000	.65436	.03699	.00922	-.00459	-.00057	.00215	.00214	.64472	.55717	.34786
0.000	29.000	.73361	.03753	.00865	-.00478	-.00056	.00220	.00214	.64556	.61374	.40598
0.000	31.000	.81517	.03810	.00715	-.00506	-.00059	.00234	.00214	.64668	.66881	.46964
0.000	33.000	.89914	.03810	.00513	-.00538	-.00069	.00242	.00214	.64781	.72244	.53843
0.000	35.000	.98528	.03754	.00245	-.00572	-.00067	.00245	.00214	.64900	.77409	.61227
0.000	37.000	1.07110	.03684	-.00190	-.00599	-.00070	.00250	.00214	.65022	.82120	.68999
0.000	39.000	1.15780	.03583	-.00461	-.00633	-.00074	.00256	.00214	.65138	.86461	.77199
0.000	41.000	1.24470	.03452	-.00875	-.00327	-.00081	.00263	.00214	.65251	.90310	.85750
0.000	43.000	1.32920	.03288	-.01319	-.00355	-.00086	.00269	.00214	.65357	.93603	.94516
0.000	45.000	1.41340	.03093	-.01870	-.00367	-.00081	.00273	.00214	.65461	.96345	1.03590
	GRADIENT	.03453	.00014	.00153	-.00011	-.00006	.00007	-.00000	.00005	.02847	.01927

OA79 B26 C9 E43 F8 H16 N28 R3 V8 W16 (RTW067) (18 OCT 74)

REFERENCE DATA

SREF =	2001.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0150				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-30.000	BDFLAP =	.000
SPOBRK =	55.000	RUDDER =	.000
RN/L =	3.530		

RUN NO. 1747 0 RN/L = 3.53 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	17.000	.29943	.05597	.00811	-.00041	.00028	.00110	.00213	.63989	.28999	.14107
8.000	19.000	.36228	.05660	.01044	-.00051	.00007	.00122	.00213	.63926	.32412	.17147
8.000	21.000	.42693	.05741	.01174	-.00083	-.00004	.00136	.00213	.63976	.37798	.20658
8.000	23.000	.49895	.05729	.01307	-.00107	-.00026	.00155	.00213	.64025	.43690	.24769
8.000	25.000	.57178	.05772	.01391	-.00105	-.00026	.00164	.00213	.64094	.49381	.29396
8.000	27.000	.64811	.05818	.01459	-.00138	-.00029	.00176	.00213	.64178	.55110	.34598
8.000	29.000	.72666	.05871	.01407	-.00161	-.00026	.00187	.00213	.64278	.60709	.40364
8.000	31.000	.80701	.05934	.01324	-.00184	-.00037	.00206	.00213	.64367	.66118	.46650
8.000	33.000	.88966	.05939	.01197	-.00215	-.00036	.00220	.00213	.64496	.71378	.53436
8.000	35.000	.97491	.05893	.01017	-.00244	-.00039	.00231	.00213	.64611	.76446	.60723
8.000	37.000	1.05981	.05822	.00744	-.00273	-.00038	.00245	.00213	.64733	.81132	.68427
8.000	39.000	1.14571	.05721	.00434	-.00278	-.00032	.00261	.00213	.64852	.85437	.76546
8.000	41.000	1.23181	.05545	.00189	-.00291	-.00034	.00280	.00213	.64965	.89210	.84949
8.000	43.000	1.31540	.05425	-.00271	-.00309	-.00032	.00301	.00213	.65068	.92502	.93678
8.000	45.000	1.39855	.05223	-.00677	-.00341	-.00027	.00322	.00213	.65170	.95185	1.02570
	GRADIENT	.03417	.00021	.00171	-.00019	-.00007	.00007	-.00000	.00015	.02802	.01910

CA/9 B26 C9 E43 F8 H16 H28 R5 V8 W16 (RTW068) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1376.6800 IN.XO
CREF =	474.9100 IN.	YMRP =	.0000 IN.YO
BREF =	936.0800 IN.	ZMRP =	375.0000 IN.ZO
SCALE =	1.00		

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-30.000
ELV-RO =	-30.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 1752 RN/L = 3.52 GRADIENT INTERVAL = 15.000/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.000	17.000	.29897	.03633	.00779	-.00047	.00029	.00139	.01214	.64026	.26899	.14114
0.000	19.000	.36136	.03676	.01006	-.00038	.00027	.00158	.01214	.63962	.32291	.17122
0.000	21.000	.42883	.03699	.01171	-.00065	-.00015	.00180	.01214	.63983	.37992	.20688
0.000	23.000	.49932	.03721	.01245	-.00072	-.00024	.00209	.01214	.64071	.43727	.24776
0.000	25.000	.57182	.03754	.01288	-.00065	-.00031	.00229	.01214	.64161	.49393	.29381
0.000	27.000	.64612	.03805	.01329	-.00075	-.00036	.00251	.01214	.64235	.55103	.34592
0.000	29.000	.72665	.03964	.01396	-.00100	-.00035	.00276	.01214	.64329	.60711	.40358
0.000	31.000	.80799	.03926	.01210	-.00110	-.00045	.00310	.01214	.64440	.66172	.46674
0.000	33.000	.89136	.03940	.01091	-.00138	-.00047	.00343	.01214	.64540	.71438	.53475
0.000	35.000	.97549	.03931	.00869	-.00146	-.00044	.00374	.01214	.64667	.76523	.61786
0.000	37.000	1.06083	.03836	.00599	-.00158	-.00047	.00410	.01214	.64784	.81195	.70492
0.000	39.000	1.14613	.03742	.00280	-.00149	-.00058	.00449	.01214	.64902	.85456	.79589
0.000	41.000	1.23197	.03626	-.00075	-.00133	-.00064	.00493	.01214	.65014	.89249	.89038
0.000	43.000	1.31617	.03481	-.00466	-.00149	-.00063	.00535	.01214	.65122	.92513	.98764
0.000	45.000	1.39997	.03293	-.00882	-.00154	-.00058	.00577	.01214	.65224	.95243	1.02730
	GRADIENT	.03425	.00114	.00163	-.00013	-.00008	.00012	.00000	.00019	.02821	.01909

OA79 B26 C9 E43 F8 M16 N20 R5 V8 W116 (RTW080) (18 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = 10.000
ELV-LI = -10.000 ELV-RI = -10.000
ELV-RO = -10.000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000
RN/L = 3.530

RUN NO. 176/ 0 RN/L = 3.53 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	17.000	.30821	.05556	.00074	-.00026	-.00032	.00190	.00212	.64897	.27850	.14325
0.900	19.000	.37197	.05591	.00206	-.00035	-.00057	.00236	.00212	.64783	.33390	.17397
0.900	21.000	.43963	.05683	.00290	-.00073	-.00071	.00277	.00212	.64779	.39025	.21060
0.900	23.000	.51551	.05691	.00211	-.00081	-.00097	.00316	.00212	.64837	.45045	.25303
0.900	25.000	.58879	.05727	.00124	-.00092	-.00111	.00346	.00212	.64912	.50879	.30045
0.900	27.000	.66657	.05775	.00006	-.00106	-.00126	.00373	.00212	.64987	.56770	.35407
0.900	29.000	.74712	.05831	-.00082	-.00129	-.00131	.00400	.00212	.65080	.62518	.41321
0.900	31.000	.83996	.05890	-.00461	-.00155	-.00147	.00433	.00212	.65193	.68194	.47847
0.900	33.000	.91598	.05895	-.00778	-.00195	-.00159	.00460	.00212	.65314	.73610	.54832
0.900	35.000	1.00320	.05846	-.01191	-.00239	-.00160	.00478	.00212	.65428	.78824	.62330
0.900	37.000	1.09160	.05781	-.01657	-.00260	-.00173	.00512	.00212	.65550	.83701	.70311
0.900	39.000	1.17933	.05682	-.02157	-.00262	-.00186	.00525	.00212	.65668	.88109	.78660
0.900	41.000	1.26711	.05560	-.02718	-.00271	-.00200	.00542	.00212	.65778	.91984	.87529
0.900	43.000	1.35490	.05409	-.03312	-.00311	-.00204	.00555	.00212	.65889	.95371	.96331
0.900	45.000	1.441[illegible]	.05229	-.03895	-.00348	-.00206	.00567	.00212	.65984	.98196	1.05590
	GRADIENT	.03937	.00122	.00015	-.00009	-.00010	.00019	-.00000	.00014	.02888	.01967

CA79 B26 C4 E43 F8 M16 N20 R5 V8 W18 (RTM375) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6800 IN.XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO
BREF =	956.6600 IN.	ZMRP =	575.0000 IN.ZO
SCALE =	.0191		

PARAMETRIC DATA

BETA =	.0000	ELV-LO =	-5.0000
ELV-LI =	-5.0000	ELV-RI =	5.0000
ELV-RO =	5.0000	BDFLAP =	.0000
SPOBRK =	55.0000	RUDDER =	.0000
RN/L =	3.550		

RUN NO. 1770 RN/L = 3.55 GRADIENT INTERVAL = 00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.2000	17.0000	.31870	.03580	-.00454	-.00152	.00351	-.00288	.01208	.65512	.28779	.14634
0.2000	19.0000	.36334	.03604	-.00470	-.00167	.00346	-.00328	.01208	.65439	.34421	.17779
0.2000	21.0000	.43291	.03715	-.00461	-.00215	.00351	-.00375	.01208	.65363	.40234	.21566
0.2000	23.0000	.52658	.03753	-.00736	-.00256	.00353	-.00413	.01208	.65574	.46205	.25863
0.2000	25.0000	.61361	.03802	-.00927	-.00277	.00361	-.00468	.01208	.65555	.52254	.30768
0.2000	27.0000	.68349	.03859	-.01225	-.00298	.00375	-.00524	.01208	.65649	.58239	.36293
0.2000	29.0000	.76644	.03932	-.01549	-.00341	.00382	-.00587	.01208	.65734	.64158	.42346
0.2000	31.0000	.85102	.04025	-.01972	-.00365	.00400	-.00651	.01208	.65843	.69912	.49038
0.2000	33.0000	.93924	.04158	-.02453	-.00395	.00416	-.00684	.01208	.65952	.75473	.56233
0.2000	35.0000	1.02893	.04339	-.03125	-.00427	.00444	-.00742	.01208	.66074	.80785	.63938
0.2000	37.0000	1.11891	.04731	-.03691	-.00454	.00463	-.00791	.01208	.66192	.85712	.72103
0.2000	39.0000	1.21491	.05944	-.04317	-.00457	.00483	-.00831	.01208	.66316	.90216	.80695
0.2000	41.0000	1.29849	.05862	-.05023	-.00444	.00496	-.00867	.01208	.66415	.94149	.89609
0.2000	43.0000	1.38693	.05766	-.05773	-.00458	.00524	-.00937	.01208	.66524	.97457	.98765
0.2000	45.0000	1.47543	.05691	-.06477	-.00472	.00549	-.00931	.01208	.66638	1.00350	1.08310
	GRADIENT	.03571	.00193	-.00161	-.00117	.00031	-.00122	.00000	.00038	.02937	.02018

OA79 B26 C9 E43 F8 H16 H20 R5 V8 W16 (RTAD71) (18 OCT 74)

REFERENCE DATA

SREF =	2000.0000 SQ.FT.	XMRP =	1076.6000 IN.RO		
LREF =	474.8193 IN.	YMRP =	.0000 IN.YO		
BREF =	956.6000 IN.	ZMRP =	378.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	25.000	RUDDER =	.000
RN/L =	3.550		

RUN NO. 178/ 0 RN/L = 3.51 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.700	17.000	.31484	.03577	-.00455	-.00093	.00035	-.00075	.01218	.65515	.28558	.14347
0.700	19.000	.38148	.03432	-.00359	-.00110	-.00006	-.00082	.01218	.65325	.34207	.17523
0.700	21.000	.44985	.03915	-.00379	-.00147	-.00012	-.00096	.01218	.65298	.40032	.21262
0.700	23.000	.52179	.03557	-.00393	-.00179	-.00019	-.00101	.01218	.65340	.46043	.25581
0.700	25.000	.60115	.03586	-.00363	-.00162	-.00032	-.00110	.01218	.65402	.52032	.30476
0.700	27.000	.68111	.03626	-.00314	-.00174	-.00039	-.00126	.01218	.65485	.58044	.35893
0.700	29.000	.76261	.03681	-.01283	-.00215	-.00033	-.00145	.01218	.65599	.63946	.41940
0.700	31.000	.84706	.03747	-.01676	-.00242	-.00037	-.00157	.01218	.65718	.69724	.48599
0.700	33.000	.93491	.03780	-.02148	-.00251	-.00034	-.00176	.01218	.65836	.75283	.55767
0.700	35.000	1.02640	.03753	-.02728	-.00285	-.00021	-.00197	.01218	.65971	.80644	.63491
0.700	37.000	1.11525	.03753	-.03543	-.00318	-.00014	-.00211	.01218	.66193	.85627	.71669
0.700	39.000	1.20152	.03636	-.04124	-.00318	-.00012	-.00221	.01218	.66229	.90118	.80223
0.700	41.000	1.29529	.03547	-.04742	-.00327	-.00011	-.00230	.01218	.66339	.94111	.89151
0.700	43.000	1.38453	.03423	-.05482	-.00361	.00006	-.00241	.01218	.66449	.97544	.98376
0.700	45.000	1.47281	.03276	-.06247	-.00393	.00023	-.00247	.01218	.66553	1.00410	1.07880
	GRADIENT	.03571	.00127	-.00151	-.00110	-.00014	-.00014	-.00001	-.00111	.02941	.02911

OA79 B26 C9 E45 F8 M16 N28 R5 V8 W116 (RTW072) (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

ALPHA = 20.000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.530

RUN NO. 170/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	-5.108	.45982	.05601	-.01530	.03968	.00803	.00562	.00222	.65245	.39254	.20655
0.900	-3.085	.45966	.05575	-.01501	.02405	.00432	.00314	.00231	.65240	.39284	.20516
0.900	-1.025	.45875	.05512	-.01262	.00861	.00148	.00155	.00228	.65207	.39217	.20427
0.900	-.017	.45877	.05513	-.01233	.00019	.00028	-.00085	.00218	.65183	.39316	.20479
0.900	1.033	.45803	.05426	-.01215	-.01794	-.00099	-.00221	.00216	.65160	.39165	.20323
0.900	3.003	.45815	.05451	-.01214	-.02582	-.00367	-.00491	.00220	.65168	.39081	.20310
0.900	5.117	.45827	.05547	-.01225	-.04159	-.00644	-.00751	.00225	.65177	.39140	.20484
	GRADIENT	-.00142	-.00022	.00015	-.00776	-.00120	-.00131	-.00002	-.00013	-.00032	-.00035

OA79 B26 C9 E45 F8 M16 N28 R5 V8 W116 (RTW073) (18 OCT 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0190

PARAMETRIC DATA

ALPHA = 30.000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.530

RUN NO. 180/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLNF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	-5.072	.08835	.05654	-.01605	.02981	.00666	.00650	.00188	.65712	.71475	.49232
0.900	-3.016	.08846	.05552	-.01734	.01491	.00500	.00265	.00185	.65725	.71827	.49306
0.900	-1.000	.07985	.05447	-.01729	.00170	.00182	-.00081	.00182	.65722	.71986	.49310
0.900	.004	.07909	.05347	-.01603	-.00625	-.00048	-.00294	.00179	.65733	.71965	.49188
0.900	1.037	.07936	.05540	-.01682	-.01905	-.00197	-.00472	.00178	.65713	.71960	.49186
0.900	3.007	.08047	.05585	-.01666	-.02899	-.00497	-.00832	.00176	.65607	.71804	.49149
0.900	5.141	.08642	.05557	-.01671	-.04262	-.00763	-.01226	.00166	.65701	.71546	.49181
	GRADIENT	-.00118	-.00027	.00012	-.00685	-.00141	-.00185	-.00002	-.00015	-.00034	-.00129

OA70 B26 C9 E45 F6 M16 N20 R5 V8 W16 (RTW074) (10 OCT 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6000 IN.XO
LREF = 474.8000 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 40.000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = .000
RN/L = 3.590

RUN NO. 101/ 0 RN/L = 3.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.900	-5.101	1.31090	.03510	-.04918	.02047	.00020	.00820	.00117	.66365	.95575	.91200
0.900	-5.072	1.32240	.03440	-.04940	.01906	.00510	.00577	.00108	.66367	.95801	.91210
0.900	-1.035	1.32500	.03515	-.04897	.00290	.00205	-.00049	.00106	.66354	.96046	.91251
0.900	-.020	1.32500	.03509	-.04970	-.00332	.00026	-.00240	.00102	.66353	.96165	.91363
0.900	1.007	1.32490	.03275	-.04895	-.00855	-.00140	-.00446	.00095	.66353	.96150	.91245
0.900	3.056	1.32590	.03263	-.04965	-.02761	-.00442	-.00890	.00092	.66371	.96170	.91370
0.900	5.004	1.32420	.03500	-.04942	-.03570	-.00732	-.01329	.00081	.66378	.95994	.91367
	GRADIENT	.00148	-.00029	-.00003	-.00612	-.00157	-.00215	-.00003	.00001	.00047	.00119

IA79 026 O3 E43 F8 M16 N28 R5 V8 W116 (RTW379) (18 OCT 74)

REFERENCE DATA

SREF = 7000.0000 SQ.FT. XMRP = 1076.6800 IN.XO
LREF = 474.8100 IN. YMRP = .0000 IN.YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RO = .000 BDFLAP = .000
SPDBRK = 25.000 RUDDER = -20.000
RN/L = 5.530

RUN NO. 1827/0 RN/L = 5.52 GRADIENT INTERVAL = 15.00/ 25.00

MACH	ALPHA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
0.[illegible]	17.000	.31354	.05451	-.00311	-.01242	.00138	-.00149	.01215	.65351	.26390	.14380
0.[illegible]	19.000	.37510	.05639	-.00348	-.01252	.00117	-.00144	.01215	.65328	.33[illegible]9	.17547
0.[illegible]	21.000	.4[illegible]	.05540	-.00295	-.01221	.00076	-.00135	.01215	.65230	.40151	.21370
0.[illegible]	23.000	.52317	.05621	-.00462	-.01219	.00158	-.00127	.01215	.65314	.45962	.25616
0.[illegible]	25.000	.59074	.05651	-.00653	-.01215	.00126	-.00138	.01215	.65391	.51676	.30425
0.[illegible]	27.000	.67034	.05686	-.00886	-.01215	.00121	-.00154	.01215	.65471	.57859	.35082
0.[illegible]	29.000	.76[illegible]	.05730	-.01180	-.01251	.00120	-.00176	.01215	.65565	.63011	.41932
0.[illegible]	31.000	.84626	.05777	-.01[illegible]	-.01279	.00129	-.00195	.01215	.65690	.69564	.48530
0.[illegible]	33.000	.93373	.05822	-.02131	-.01292	.00111	-.00197	.01215	.65819	.75140	.55750
0.[illegible]	35.000	1.02340	.05817	-.02679	-.01313	.00010	-.00210	.01215	.65955	.81934	.63458
0.[illegible]	37.000	1.11500	.05765	-.03321	-.01318	.00001	-.00216	.01215	.66109	.85465	.71621
0.[illegible]	39.000	1.21500	.05737	-.04112	-.01330	-.00015	-.00225	.01215	.66210	.89950	.80103
0.[illegible]	41.000	1.29410	.05649	-.04728	-.01315	.00014	-.00238	.01215	.66336	.93930	.89162
0.[illegible]	43.000	1.38200	.05552	-.05477	-.01321	.00016	-.00242	.01215	.66449	.97340	.98370
0.[illegible]	45.000	1.47190	.05420	-.06255	-.01358	.00025	-.00248	.01215	.66552	1.00150	1.07870
	GRADIENT	.03592	.00010	-.00143	.00015	-.00015	.00012	-.00001	.00013	.02965	.02010

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (RTW078) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

ALPHA =	20.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	-25.000	RUDDER =	-20.000
RN/L =	3.530		

RUN NO. 183/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	-5.087	.43412	.05720	-.00423	.03794	.00780	.00508	.00217	.65347	.38708	.20470
8.000	-3.134	.42740	.05618	-.00388	.02281	.00515	.00269	.00224	.65321	.38186	.20002
8.000	-1.019	.43498	.05601	-.00302	.00664	.00240	-.00000	.00218	.65244	.38825	.20396
8.000	.012	.43489	.05597	-.00259	-.00166	.00109	-.00135	.00213	.65207	.38819	.20389
8.000	1.032	.43416	.05521	-.00243	-.00929	-.00032	-.00263	.00213	.65194	.38778	.20291
8.000	3.087	.43336	.05589	-.00235	-.02525	-.00306	-.00528	.00215	.65187	.38682	.20321
8.000	5.127	.43299	.05774	-.00156	-.04315	-.00526	-.00817	.00215	.65120	.38581	.20485
	GRADIENT	.00083	-.00008	.00025	-.00773	-.00132	-.00128	-.00002	-.00022	.00070	.00042

OA79 B26 C9 E43 F8 M16 N28 R5 V8 W116 (RTW077) (18 OCT 74)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.XO		
LREF =	474.8100 IN.	YMRP =	.0000 IN.YO		
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.ZO		
SCALE =	.0191				

PARAMETRIC DATA

ALPHA =	30.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	-25.000	RUDDER =	-20.000
RN/L =	3.530		

RUN NO. 184/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CAF	CLMF	CY	CYN	CBL	CAB	XCP/L	CLF	CDF
8.000	-5.086	.86615	.05708	-.01702	.02835	.00711	.00633	.00163	.65715	.71455	.49283
8.000	-3.090	.86928	.05603	-.01737	.01356	.00400	.00254	.00159	.65727	.71775	.49359
8.000	-.988	.87057	.05512	-.01706	-.00134	.00117	-.00116	.00160	.65713	.71927	.49354
8.000	.032	.87032	.05454	-.01656	-.00743	-.00092	-.00323	.00161	.65692	.71933	.49294
8.000	1.044	.87024	.05469	-.01640	-.01435	-.00142	-.00506	.00161	.65685	.71916	.49307
8.000	3.078	.86872	.05513	-.01621	-.02852	-.00435	-.00874	.00160	.65678	.71760	.49272
8.000	5.086	.86599	.05674	-.01577	-.04362	-.00689	-.01251	.00159	.65662	.71437	.49277
	GRADIENT	-.00010	-.00015	.00021	-.00692	-.00136	-.00186	.00000	-.00009	-.00003	-.00015