

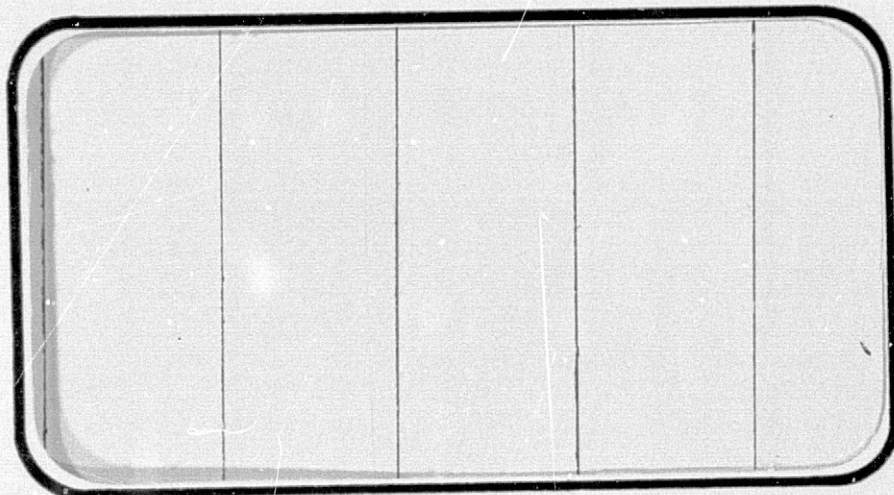
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-144614) RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS UTILIZING 0.0125-SCALE MODELS (CHRYSLER

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER
HOUSTON, TEXAS

DATA MANAGEMENT services



April, 1976

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VOLUME 3 OF 5

RESULTS OF AN AERODYNAMIC INVESTIGATION OF A
SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST
CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS
UTILIZING 0.0125-SCALE MODELS (48-0/AX1318I-1) IN
THE LTV 4 x 4-FOOT HIGH SPEED WIND TUNNEL (CA26)

by

R. L. Gillins
Shuttle Aerosciences
Rockwell International Space Division

Prepared Under NASA Contract Number NAS9-13247

by

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

for

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

WIND TUNNEL TEST SPECIFICS:

Test Number: LTV HSWT 559
NASA Series Number: CA26
Model Number: 48-0 Orbiter/AX1318I-1 747
Test Dates: August 1 through August 15, 1975
Occupancy Hours: 95

FACILITY COORDINATOR:

Mr. Tom Baker
Vought Systems Division
Gas Dynamics Laboratories
P. O. Box 1046
Grand Prairie, Texas 75050
Phone: (214) 266-4462

PROJECT ENGINEERS:

R. L. Gillins, V. Esparza Rockwell International Space Division 12214 Lakewood Blvd. Mail Code AC07 Downey, Calif. 90241 Phone: (213) 922-4994	Carl Ziegler Gas Dynamics Laboratories P. O. Box 1046 Grand Prairie, Texas 75050 Phone: (214) 266-4462
--	--

AERODYNAMICS ANALYSIS ENGINEERS:

P. H. Kief, A. L. Mena Rockwell International Space Division 12214 Lakewood Blvd. Mail Code AC07 Downey, Calif. 90241 Phone: (213) 922-4771	C. R. Mullen The Boeing Company Orgn. B-8241 OL-21 Seattle, Washington 98007 Phone: (206) 342-1112	L. Perez, D. Homan NASA/JSC Bldg. 13, EX33 Houston, Texas 77058 Phone: (713) 483-4701
---	---	--

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--J. W. Ball, T. L. Mulkey, D. A. Sarver
Operations--G. W. Klug

Reviewed by: D. E. Poucher

Approved: J. L. Glynn
J. L. Glynn, Manager
Data Operations

Concurrence: N. D. Kemp
N. D. Kemp, Manager
Data Management Services

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RESULTS OF AN AERODYNAMIC INVESTIGATION OF A
SPACE SHUTTLE ORBITER/747 CARRIER FLIGHT TEST
CONFIGURATION TO DETERMINE SEPARATION CHARACTERISTICS
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LTV 4 x 4-FOOT HIGH SPEED WIND TUNNEL (CA26)

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R. L. Gillins
Shuttle Aerosciences
Rockwell International Space Division

ABSTRACT

This report presents results of tests conducted on a 0.0125-scale model of the VC70-000002 Space Shuttle Orbiter and a 0.0125-scale model of the 747 CAM configuration in the LTV 4 x 4-foot High Speed Wind Tunnel. Force and moment data were obtained for each vehicle separately at a Mach number of 0.6 and for each vehicle in proximity to the other at Mach numbers of 0.3, 0.5, 0.6 and 0.7.

The enclosed data present the proximity effects of each vehicle on the other at separation distances (from the mated configuration) ranging from 1.5 feet to 75 feet; 747 Carrier angles of attack from 0 degrees to 6 degrees and angles of sideslip of 0° and -5° were tested. The Orbiter was tested in proximity to the 747 at incidence angles of 4 degrees, 6 degrees and 8 degrees and angles of sideslip of 0 degrees and ±5 degrees. The Orbiter alone was tested at angles of attack from 0 degrees to 17 degrees at angles of sideslip of 0 degrees and -5 degrees.

ABSTRACT (Concluded)

Model variables include orbiter elevon, aileron and body flap deflections, orbiter tailcone on and off, and 747 stabilizer and rudder deflections. The tests, designated CA26, were conducted from August 1 through August 15, 1975.

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237	LAT-DIRECT AERO VS DELZ, ALPHA747 = 4.0	A	BETA0, BETAC	1879-1893
238	LAT-DIRECT AERO VS DELZ, ALPHA747 = 0.0, DELBETA = 5.0	A	BETA0, BETAC	1894-1908
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240	LAT-DIRECT AERO VS DELZ. ALPHA747 = 4.0, DELBETA = 5.0	A	BETA0, BETAC	1924-1938

COEFFICIENT SCHEDULE:

- | | |
|---|--|
| (A) CY, CYN, CBL, CPS1, CPS2, CYB, CYNB,
CBLB, DCPSB versus DZ | (E) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus DY |
| (B) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus ALPHAC | (F) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus ALPHA0 |
| (C) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus DZ | (G) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus INCID |
| (D) CN, CLM, CA, CY, CYN, CBL, CL,
CD versus DX | |

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	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
w	wing

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(D_b - P_{\infty})/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
BSTA		Longitudinal carrier station, in.
BWL		Vertical carrier station, in.
BL		Lateral carrier station, in.
δ_a	AILRON	Orbiter aileron deflection angle, $\delta_a = \frac{\delta_{eL} - \delta_{eR}}{2}$, degrees
δ_{BF}	BDFLAP	Orbiter body flap surface deflection angle, positive deflection trailing edge down, degrees
δ_e	ELEVON	Orbiter elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_r	RUDDER	747 rudder surface deflection angle, positive deflection trailing edge to the left, degrees
δ_s	STAB	747 stabilizer surface deflection angle, positive deflection trailing edge down, degrees
$C_{y\beta}$	CYB	Side force coefficient due to beta
$C_{n\beta}$	CYNB	Yawing moment coefficient due to beta
$C_{l\beta}$	CBLB	Rolling moment coefficient due to beta
$\Delta C_{PS\beta}$	DCPSB	Differential right hand and left hand strut pressure coefficient due to beta

ORBITER

C_{PB1}	CPB1	Orbiter (tail cone off) base pressure coefficient, 1
C_{PB2}	CPB2	Orbiter (tail cone off) base pressure coefficient, 2
C_{PB3}	CPB3	Orbiter (tail cone off) base pressure coefficient, 3

NOMENCLATURE (Concluded)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_{PCO}	CPCO	Orbiter balance cavity pressure coefficient
C_{PS1}	CPS1	Orbiter strut L. H. side pressure coefficient
C_{PS2}	CPS2	Orbiter strut R. H. side pressure coefficient
C_{PCC}	CPCO	747 cavity pressure coefficient
C_{PSB1}	CPSB1	747 upper forward sting cavity pressure coefficient
C_{PSB2}	CPSB2	747 upper center sting cavity pressure coefficient
C_{PSB3}	CPSB3	747 upper aft sting cavity exit pressure coefficient
<u>SEPARATION PARAMETERS</u>		
Δx	DELX	Orbiter longitudinal displacement from mated position, positive aft, feet
Δy	DELY	Orbiter lateral displacement from mated position, positive right, feet
Δz	DELZ	Orbiter vertical displacement from mated position, positive up, feet
$\Delta\phi$	DPHI DELPHI	Incremental roll angle, Orbiter FRP, degrees
i_o	IORB	Orbiter incidence angle, orbiter FRL to 747 FRL ($i_o = \alpha_o - \alpha_c$), degrees
	INCID	Orbiter incidence angle (accounts for tunnel flow angularity variation from tunnel ξ to tunnel wall) $i_o = \alpha_o - \alpha_c - \Delta Z(-.0059)$, degrees
α_o	ALPHAO	Orbiter angle of attack (tunnel flow angularity from tunnel ξ to tunnel wall not applied), degrees
α_c	ALPHAC	Carrier FRL angle of attack, degrees
$\Delta\beta$	DELBETA	Incremental sideslip angle, orbiter to 747 FRL, degrees

REMARKS

The model component surface deflection angles called out in the run summary are nominal values. The actual angles tested are outlined below.

	<u>Nominal</u>	<u>Actual</u>
Orbiter Elevon:	0°	0°
	+5°	+5.0°
	+10°	+9.8°
Orbiter Aileron: ($\delta_e = 5, \delta_a = -5$)	0°/10°	0°/+9.8°
747 Stabilizer:	-1°	-0.75°
	+3°	3.27°
	+5°	5.32°
747 Rudder:	+10°	+10.7°

During the early separation Δz sweep runs, it was noted that for Δz in the 0 to 15 foot range, the coefficient polars had different characteristics for Δz decreasing than for Δz increasing. Subsequent pitch/pause data runs demonstrated that there was a proximity hysteresis effect. All runs thereafter were made with pitch/pause points in close proximity and constant sweep beyond 10 feet.

CONFIGURATIONS INVESTIGATED

The orbiter model, 48-0, was an 0.0125-scale representation of the Space Shuttle Orbiter VC70-000002 lines, illustrated in figure 2a. The Orbiter model was tested both with and without a tail cone fairing which covered the MPS nozzles and the OMS pod base as shown in figure 2b. Orbiter alone runs were made with a base sting mount, the sting replacing the upper MPS nozzle, figure 2h. The following orbiter configurations were tested:

- O₂ = B₆₄ C₁₄ F₁₄ E₄₄ M₁₈ N₉₄ N₉₂ W₁₁₆
- O₄ = B₆₄ C₁₄ F₁₄ E₄₄ M₁₈ N₁₀₅ N₉₂ R₁₈ V₂₃ W₁₁₆ (upper MPS nozzle off)
- O₆ = B₆₄ C₁₄ F₁₄ E₄₄ M₁₈ W₁₁₆ TC₄

where:

<u>Component</u>	<u>Description</u>
B ₆₄	Orbiter fuselage per Rockwell lines VC70-000002, Model drawing SS-A01377
C ₁₄	Orbiter canopy per Rockwell lines VC70-000002, Model drawing SS-A01377
E ₄₄	Orbiter full span, unswept hingeline, 6-inch gapped elevons per Rockwell lines VC70-000002, Model drawing SS-A01377
F ₁₄	Orbiter body flap per Rockwell lines VC70-000002, Model drawing SS-A01377
M ₁₈	Orbiter OMS/RCS pods per Rockwell lines VC70-000002, Model drawing SS-A01377
N ₉₂	Orbiter OMS engine nozzles per Rockwell lines VC70-000002, Model drawing SS-A01377
N ₉₄	Orbiter main engine nozzles per Rockwell lines VC70-000002, Model drawing SS-A01377
N ₁₀₅	Same as N ₉₄ with upper nozzle removed

CONFIGURATIONS INVESTIGATED - (Continued)

<u>Component</u>	<u>Description</u>
R ₁₈	Orbiter rudder per Rockwell lines VC70-000002, Model drawing SS-A01377
V ₂₃	Orbiter vertical tail per Rockwell lines VC70-000002, Model drawing SS-A01377
W ₁₁₆	Orbiter double delta wing per Rockwell lines VC70-000002, Model drawing SS-A01377
TC ₄	Orbiter tail cone fairing which covers the MPS nozzles and the OMS nozzles and base

Orbiter elevon, aileron and body flap deflection angles were varied. Configuration O₄ was the sting mounted orbiter configuration, and O₂ and O₆ were blade mounted configurations.

Orbiter-to-carrier attach structure was simulated. These included faired and unfaired strut members as identified below and illustrated in figures 2f and 2g.

$$AT_y = AT_{112} + AT_{113}$$

$$AT_x = AT_{96} + AT_{99}$$

where:

<u>Component</u>	<u>Description</u>
AT ₁₁₂	Fwd. attach structure, short fairing, $i_o = 4^\circ$
AT ₁₁₃	Aft attach structure, unfaired draglink, other members faired
AT ₉₆	Fwd attach structure, faired, $i_o = 4^\circ$
AT ₉₉	Aft attach structure, faired

CONFIGURATIONS INVESTIGATED - (Concluded)

The carrier model, AX13181-1, was an 0.0125-scale representation of the Boeing 747-100 aircraft with surface contours built to represent the 747 under loads it would experience with a 600,000 pound gross weight flying at Mach 0.86 at an altitude of 5,000 feet. The CAM (Carrier Aircraft Modification) kit tested on the model included 200 square foot tip fins on the horizontal tail panels and simulated orbiter-to-carrier attach structure. In-flight speed brakes were deployed for most runs in the configuration shown in figure 2e. Stabilizer and rudder deflections were varied during the test. The carrier was tested both isolated and in proximity to the orbiter. Configurations investigated were:

747/1 = B27.8 W44.1 V9.1 H15.6 M25 M26 N57 N58 S1-12 T14 AT()
 747/4 = Same as 747/1 except no H15.6

where:

<u>Component</u>	<u>Description</u>
B27.8	Fuselage
W44.1	Wing
V9.1	Vertical Tail
H15	Horizontal tail, basic
H15.6	Horizontal tail, with 200 ft. ² tip fins
M25	Inboard nacelle struts
M26	Outboard nacelle struts
N57	Inboard nacelles
N58	Outboard nacelles
S1-12	Spoiler Panels
T14	Flap track fairings

INSTRUMENTATION

Force instrumentation consisted of a six-component internal force balance mounted in each model. The orbiter balance measured orbiter forces and the carrier balance measured carrier data.

Pressure instrumentation for the orbiter consisted of 3 base pressure orifices (tailcone off only) and 1 balance cavity orifice. Pressure instrumentation for the carrier consisted of 1 balance cavity orifice and 3 sting/boattail cavity pressure orifices as shown below. Also, see figure 2k. All pressures were measured by individual pressure transducers.

	<u>Pressure</u>
Orbiter pressures:	PC ₀
	PB ₁
	PB ₂
	PB ₃
Carrier pressures:	PCC
	PSE1
	PSB2
	PSB3
Strut pressures:	PS1
	PS2
Tailcone pressure:	PTC

TEST FACILITY DESCRIPTION

The Vought Aeronautics Company High Speed Wind Tunnel is a blowdown-to-atmosphere, transonic-supersonic adjustable Mach number facility.

Six tanks with a total of 28,000 cubic feet air storage capacity receive the reheated air until a maximum storage pressure of 600 psia is reached. The compressor discharge is then vented to atmosphere until the tank pressure is reduced below 400 psia. An alumina pebble bed in each tank absorbs heat during pump up and dissipates heat during air discharge to maintain a near constant supply temperature.

The time required to recharge the air storage tanks following a run varies from 15 to 45 minutes depending upon the final tank pressure. A nominal tank pressure increase rate is 9 psi per minute.

Mach number control at the supersonic test section velocities is accomplished with an adjustable contour nozzle. Two flexible stainless steel plates, 3/4-inch thick, 48 inches wide, and 453 inches long, are contoured to produce a uniform test section flow using 28 nozzle jacks on each plate spaced at 10- to 18-inch intervals. During nozzle changes the plates are hydraulically extended to permit positioning of the threaded nozzle jacks. After the nozzle jacks are properly set, the plates are retracted against the nozzle jack stops. Microswitches on the stops indicate plate contact. Strain indicators at each jack position protect the nozzle plate from excessive stresses.

During each run the hydraulic cylinders are charged with high pressure to hold each plate support rigidly against the nozzle jack stops.

TEST FACILITY DESCRIPTION (Concluded)

For transonic operation the supersonic diffuser is removed and the transonic test section and ejector section are set in place. The model cart is relocated downstream approximately 11 feet into the transonic test section. Test section window locations relative to the model cart are the same for either section. Conversion time is nominally 2 hours.

The transonic test section has normal hole perforated walls with 22.5% porosity. Test section size is nominal 4 x 4 feet with each side wall converged 25 minutes. Subsonic Mach number control is accomplished with hydraulic servo-actuated choking flaps downstream of the test section. A control system maintains the preset ratio of static to total pressure during each run by causing small changes in choking area. Above Mach number 0.9, approximately, the choking flaps are fully open and Mach control is switched to a set of plenum chamber bleed control flaps. These hydraulically-actuated, servo-controlled "Mach flaps" remove test section air through the porous walls by ejection pumping of the plenum chamber. A maximum Mach number of 1.15 can be attained with a sonic nozzle. To obtain Mach numbers greater than 1.5, it is necessary to contour the nozzle plates in addition to utilizing plenum pumping. A maximum Mach number of 1.8 is possible in the transonic test section, although the supersonic test section is recommended for Mach numbers of 1.4 and greater.

DATA REDUCTION

Force and moment data were reduced in both body and stability axes using standard data reduction procedures. Coefficient data for each vehicle were computed based on their respective reference dimensions. Separation distances Δx , Δy , and Δz were computed in the carrier body axis system and represent the movement of the orbiter from the base (mated) position.

<u>Symbol</u>	<u>Carrier</u>		<u>Orbiter</u>		<u>Description</u>
	<u>Model Scale</u>	<u>Full Scale</u>	<u>Model Scale</u>	<u>Full Scale</u>	
s	0.859	5500	0.420	2690	reference area, ft. ²
b	29.351	2348.04	11.709	936.68	reference span, in.
\bar{c}	4.097	327.78	5.935	474.81	reference MAC, in.
MRC					moment reference center, in.
X _c or X _o	16.749	1339.90	13.862	1109	
Y _c or Y _o	0.0	0.0	0.0	0.0	
Z _c or Z _o	2.385	190.75	4.687	375	

No base or cavity pressure corrections were applied to the data.

Wind tunnel data were interpolated versus angle of attack, angle of sideslip, orbiter incidence angle and separation distances Δx , Δy and Δz . Both basic and interpolated data are presented in this report.

REFERENCES

- SD75-SH-0054, "Pretest Information for a Test of an 0.0125-scale Model 48-0 orbiter/747 Flight Test Configuration in the LTV 4 x 4-foot High Speed Wind Tunnel (CA23)," February 17, 1975
- VC70-000002, "Design Geometry - Orbiter," June 10, 1974
- SS-A01377, "Orbiter Assembly - #48-0, 0.0125-Scale SSV, Ferry/Separation," August 9, 1974
- SS-A01378, "Model Installation - 0.0125-Scale SSV Orbiter Ferry/Separation (LTV)"
- SS-A01452, "Tail Cone Assy - 0.0125-Scale SSV Orbiter, #48-0"
- SS-A01559, "Fwd and Aft attach Supports, 48-0, 0.0125-Scale SSV Orbiter, March 11, 1975
- W-1132SA, "Sting Assy - 48-0 SSV, Carrier, Ferry/Separation," August 9, 1974
- W-1133SA "Sting Assy - Orbiter Ferry Separation, #48-0," January 13, 1975
- The Boeing Company - 747 Carrier
- 747-MD-461, "General Arrangement - 747 Space Shuttle Orbiter Carrier Aircraft (Piggyback Configuration)," July 15, 1974
- 747-MD-654, "Forward Support Structure Instl. -747 CAM"
- 747-MD-658, "Support Structure Instl. -Aft"
- AX 1318I-1, "747 Model Drawings 0.0125-Scale."
- 65C13609, "Model Assy AX1318I-1"
- 65-89588, "Body Lines AX1318I-1"

TABLE I.

TEST : CA26		DATE : Post Test	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE PSF	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.3	$2.6 \times 10^6/\text{ft}$	200	119
0.5	$4.0 \times 10^6/\text{ft}$	445	115
0.6	$4.3-4.9 \times 10^6/\text{ft}$	570 - 625	89 - 132
0.7	$5.1 \times 10^6/\text{ft}$	720	96
BALANCE UTILIZED:		Orbiter: Task 1.0-inch MK XIV Carrier: LTV 1.5-inch VB-21	
CAPACITY:			
	Orbiter	Carrier	Accuracy
NF	<u>800 lb.</u>	<u>1000 lb.</u>	<u>0.2%</u>
SF	<u>400 lb.</u>	<u>800 lb.</u>	<u>0.2%</u>
AF	<u>100 lb.</u>	<u>200 lb.</u>	<u>0.2%</u>
PM		<u>1000 in.-lb.</u>	<u>0.2%</u>
RM	<u>250 in.-lb.</u>	<u>400 in.-lb.</u>	<u>0.2%</u>
YM		<u>1200 in.-lb.</u>	<u>0.2%</u>
COMMENTS:			

TABLE II

TEST: CA26		DATA SET/RUN NUMBER COLLATION SUMMARY											DATE: POST TEST		
DATA SET IDENTIFIER	CONFIGURATION	CARRIER					ORBITER						MACH NUMBERS		
		α	β	δ_A	δ_r	δ_e	δ_{BF}	δ_a	ΔX	ΔY	ΔZ	α_0	β_0	ϕ_0	0.6
AFE001	04*					0	0	0				2	0	0	1
02						0	16.3	0				2	0	0	2
03						5	0	0				2	0	0	4.1
04						5	0	0				2	-5	0	4.2
05	02S1					5	0	0				2	0	0	7.1
06						5	0	0				2	-5	0	7.2
07						5	0	0		X		8	0	0	8
08						0	0	0				2	0	0	9
09						0	16.3	0				2	0	0	10
10						0	-11.7	0				2	0	0	11
11						0	5	0				2	0	0	12
12	06S1					0	-11.7	0				2	0	0	14
13						0	-11.7	0				2	-5	0	15
14						5	-11.7	0				2	0	0	16.1
15						5	-11.7	0				2	-5	0	16.2

38

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 73 76

COEFFICIENTS

IDVAR(1) IDVAR(2) INDV

α OR β
SCHEDULES

$\alpha_0 = 0^\circ$ to 16°
 $Z = 0$ to 72 feet

SEE PAGE 46 FOR COEFFICIENT SCHEDULE

NASA-MSFC-MAF

* STRAIGHT WIRE



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TABLE II (Continued)

TEST: CA26		DATA SET/RUN NUMBER COLLATION SUMMARY													DATE: POST TEST			
DATA SET IDENTIFIER	CONFIGURATION	CARRIER				ORBITER									MACH NUMBERS			
		α	β	δ_e	δ_r	δ_e	δ_{BF}	δ_o	ΔX	ΔY	ΔZ	α_o	β_o	ϕ_o				
RFED16	747/1 ATY	0	0	5	0												0.6	
17		2	0	5	0													17
18		4	0	5	0													25.1
19		5	0	5	0													24
20		5	0	5	0													29
21		0	0	-1	0													18
22		2	0	-1	0													27
23		4	0	-1	0													23
24		2	-5	5	0													28
25		2	0	5	0													25.2
26	747/1	2	0	5	0													25.3
27		0	0	-1	0													19
28		0	0	3	0													21
29	747/4	0	0	5	0													20
		0	0	-	0													22

39

TEST RUN NUMBERS

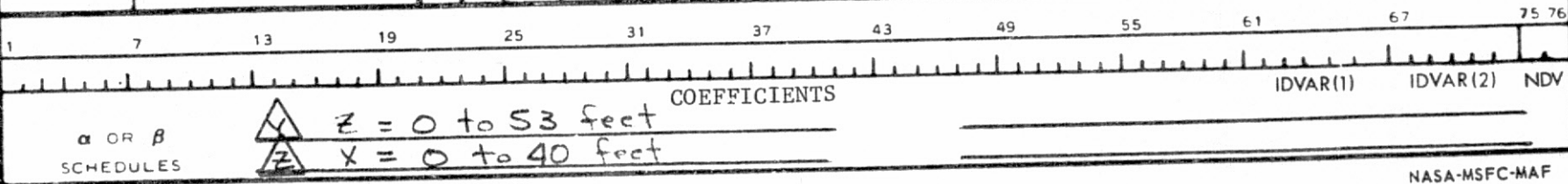


TABLE II (Continued)

TEST: CAZ6		DATA SET/RUN NUMBER COLLOCATION SUMMARY													DATE: POST TEST			
DATA SET IDENTIFIER	CONFIGURATION	CARRIER						ORBITER							MACH NUMBERS			
		α	β	δ_A	δ_r	δ_e	δ_{BF}	δ_d	ΔX	ΔY	ΔZ	L_0	β_0	ϕ_0	0.3	0.5	0.6	0.7
R/AFF030	747/1 ATY D2S1	0	0	5	0	5	-11.7	0	0	0	\triangle^1	4	0	0			30.1	
31											\triangle^2	6					30.2	
32											\triangle^1	6					30.3	
33											\triangle^3	6					34.2	
34											\triangle^1	8					31	
35		0	0	5	0	5	-11.7	0	0	0	\triangle^1	4	5	0			33.1	
36											\triangle^1	6					33.2	
37											\triangle^1	8					34.1	
38		0	0	-1	0	5	-11.7	0	0	0	\triangle^1	4	0	0			35.1	
39											\triangle^1	6					35.2	
40											\triangle^1	8					36	
41		2	0	-1	0	5	-11.7	0	0	0	\triangle^4	4	0	0			37.1	
42											\triangle^3	6					37.2	
43	NO DATA AVAILABLE										\triangle^4	8					38.1	
44	NO DATA AVAILABLE										\triangle^3	8					38.2	
45		2	0	5	0	5	-11.7	0	0	0	\triangle^1	4	0	0			39.1	
46											\triangle^1	6			44	43	39.2	42
47											\triangle^1	8					40.1	

TEST RUN NUMBERS

40

1 7 13 19 25 31 37 43 49 55 61 67 73 76

α OR β SCHEDULES
 \triangle^1 ΔZ increasing, no pauses
 COEFFICIENTS
 \triangle^3 ΔZ increasing, with pauses
 IDVAR(1), IDVAR(2) NDV
 \triangle^2 ΔZ decreasing, no pauses
 \triangle^4 ΔZ decreasing, with pauses

\triangle ΔZ increasing, decreasing, with pauses NASA-MSFC-MAF

TABLE II (Continued)

TEST: CA26		DATA SET/RUN NUMBER COLLATION SUMMARY													DATE: POST TEST		
DATA SET IDENTIFIER	CONFIGURATION	CARRIER				ORBITER									MACH NUMBERS		
		α	β	δ_a	δ_r	δ_e	δ_{gf}	δ_a	ΔX	ΔY	ΔZ	ϵ_a	β_0	ϕ_0			
R/AFED48	747/1AT4 $\phi_2 S_1$	2	0	5	0	5	0	0	0	0	$\triangle 3$	4	5	0		0.6	
49											$\triangle 3$	6					41.1
50											$\triangle 3$	8					41.2
51	747/1AT4 $\phi_2 S_1$	2	0	5	0	5	0	0	0	0	$\triangle 3$	4	0	0			45.1
52											$\triangle 3$	6					45.2
53	747/1AT4 $\phi_2 S_1$	2	0	5	0	5	0	0	0	$\triangle 4$	0	6	0	0			46.1
54											15						46.2
55											60						46.3
56		2	0	5	0	5	0	0	0	$\triangle 4$	0	6	5	0			47.1
57											15						47.2
58											60						47.3
59		2	0	5	0	5	0	0	10	$\triangle 4$	0	6	0	0			48.1
60											15						48.2
61											60						48.3
62		2	0	5	0	5	0	0	$\triangle 5$	0	0	6	0	0			49.1
63											15						49.2
64											60						49.3

TEST RUN NUMBERS

41

1	7	13	19	25	31	37	43	49	55	61	67	73	76
α OR β SCHEDULES		$\triangle 4$ $\Delta Y = -10$ to 10 feet					COEFFICIENTS			$\triangle 5$ $\Delta X = 0$ to 20 feet			
										IDVAR(1)	IDVAR(2)	NDV	

TABLE II (Continued)

TEST: CA26		DATA SET/RUN NUMBER COLLATION SUMMARY												DATE: POST TEST		
DATA SET IDENTIFIER	CONFIGURATION	CARRIER				ORBITER							MACH NUMBERS			
		α	β	δ_A	δ_r	δ_e	δ_{BF}	δ_a	ΔX	ΔY	ΔZ	L_0	β_0	ϕ_0		$O.C$
R/AF065	741/1 ATY 02 S1	2	0	5	0	5	0	0	5	0	0	6	5	0		50.1
66											15					50.2
67											60					50.3
68		2	0	5	0	0	16.3	0	0	0	3	4	0	0		51.1
69											6					51.2
70											8					52
71		2	0	5	0	0	5	0	0	0	3	4	0	0		53.1
72											6					53.2
73											8					54
74		2	0	5	0	0	0	0	0	0	3	4	0	0		55.1
75											6					55.2
76											8					56
77		2	0	5	0	10	0	0	0	0	3	6	0	0		57
78		2	0	5	0	5	0	-5	0	0	3	6	0	0		58
79		2	0	5	10	5	0	0	0	0	3	6	0	0		59
80		2	-5	5	0	5	0	0	0	0	3	4	-5	0		60.1
81											6					60.2
82											8					61

TEST RUN NUMBERS

42

1 7 13 19 25 31 37 43 49 55 61 67 73 79

COEFFICIENTS

IDVAR(1) IDVAR(2) NDV

α OR β
SCHEDULES

TABLE II (Continued)

TEST: CAZ6		DATA SET/RUN NUMBER COLLATION SUMMARY											DATE: POST TEST		
DATA SET IDENTIFIER	CONFIGURATION	CARRIER					ORBITER					MACH NUMBERS			
		α	β	δ_a	δ_r	δ_e	δ_{BF}	δ_o	ΔX	ΔY	ΔZ	i_o	β_o	ϕ_o	O.6
3/APE083	747/1 ATY $\phi_2 S_1$	2	-5	5	0	5	0	0	$\triangle 5$	0	0	6	0	0	62.1
84											15				62.2
85											60				62.3
86		2	-5	5	0	5	0	0	0	$\triangle 4$	0	6	0	0	63.1
87											15				63.2
88											60				63.3
89		4	0	5	0	5	0	0	0	0	$\triangle 3$	4	0	0	64.1
90												6			64.2
91												8			65
92		4	0	5	0	5	0	0	0	0	$\triangle 3$	4	5	0	66.1
93												6			66.2
94												8			67
95		4	0	-1	0	5	0	0	0	0	$\triangle 3$	4	0	0	68.1
96												6			68.2
97												8			69
98		4	0	5	0	0	0	0	0	0	$\triangle 3$	4	0	0	70.1
99												6			70.2
100												8			71

TEST RUN NUMBERS

43

COEFFICIENTS

IDVAR(1) IDVAR(2) NDV

α OR β
SCHEDULES

TABLE II (Continued)

TEST: CA 26		DATA SET/RUN NUMBER COLLATION SUMMARY													DATE: POST TEST		
DATA SET IDENTIFIER	CONFIGURATION	CARRIER					ORBITER							MACH NUMBERS			
		α	β	δ_e	δ_r	δ_e	δ_{SF}	δ_a	ΔX	ΔY	ΔZ	i_0	β_0	ϕ_0			0.6
R/AEE/101	747/1 ATY $\phi_2 S_1$	4	-5	5	0	5	0	0	0	0	△3	4	-5	0			72.1
102												6					72.2
103												8					73
104		5.5	0	5	0	5	0	0	0	0	△3	6	0	0			74
105		0	-5	5	0	5	0	0	0	0	△3	4	-5	0			75.1
106												6					75.2
107												8					76
108	747/1 ATY $\phi_6 S_1$	2	0	5	0	5	-11.7	0	0	0	△3	6	0	0			77
109		2	0	5	0	0	-11.7	0	0	0	△3	4	0	0			78.1
110												6					78.2
111												8					79
112		2	0	5	0	0	-11.7	0	△5	0	0	6	0	0			81.1
113												15					81.2
114												60					81.3
115		2	0	5	0	0	-11.7	0	0	△4	0	6	0	0			82.1
116												15					82.2
117												60					82.3

44

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 73 76

COEFFICIENTS

IDVAR(1) IDVAR(2) NDV

α OR β
SCHEDULES

TABLE II (Continued)

TEST: CA26		DATA SET/RUN NUMBER COLLATION SUMMARY													DATE: POST TEST	
DATA SET IDENTIFIER	CONFIGURATION	CARRIER				ORBITER									MACH NUMBERS	
		α	β	δ_A	δ_r	δ_e	δ_{BF}	δ_a	ΔX	ΔY	ΔZ	i_0	β_0	ϕ_0		
R/AFE118	747/1 ATY $\phi_6 S_1$	2	0	-1	0	0	-11.7	0			$\triangle 3$	6	0	0		0.6
119		2	0	5	10	0	-11.7	0	0	0	$\triangle 3$	6	0	0		83
120		2	-5	5	0	0	-11.7	0	0	0	$\triangle 3$	6	-5	0		84
121		4	0	5	0	0	-11.7	0	0	0	$\triangle 3$	4	0	0		85
122												6				86.1
123												8				86.2
124		0	0	5	0	0	-11.7	0	0	0	$\triangle 3$	4	0	0		87
125												6				88.1
126												8				88.2
127		2	0	5	0	0	-11.7	0	0	0	$\triangle 3$	6	0	7.5		89
128	747/1 ATY $\phi_2 S_1$	2	0	5	0	5	0	0	0	0	$\triangle 3$	6	0	7.5		90
129		2	0	5	0	5	0	0	0	0	$\triangle 3$	6	5	7.5		91
130		2	0	5	0	5	0	0	0	0	$\triangle 3$	6	0	7.5		92
AFF 131	$\phi_2 S_1$					5	0	0				$\triangle 2$	5	0		93
132						5	0	0				$\triangle 2$	0	0		94.1
133						5	0	0				$\triangle 2$	-5	0		94.2
134						0	0	0				$\triangle 2$	0	0		94.3
																13*

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	73	76	
COEFFICIENTS												IDVAR (1)	IDVAR (2)	NDV
α OR β SCHEDULES														

NASA-MSFC-MAF

* Vertical strut blade/orbiter gap sealed

TABLE II (Continued)

DATA SET 1st CHARACTER IDENTIFIER	DATA SET NUMBER	INDEPENDENT VARIABLE		DEPENDENT VARIABLES
		FIRST	SECOND	
AW	1-6	MACH	ALPHAO	BETAO, CN, CLM, CA, CY, CYN, CBL, CL, CD
AW	7	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
AW	8-13	MACH	ALPHAO	BETAO, CN, CLM, CA, CY, CYN, CBL, CL, CD
AW	14-15	MACH	INCID	CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	30-52	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	53-61	MACH	DY	DX, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	62-67	MACH	DX	DY, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	68-82	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	83-85	MACH	DX	DY, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	86-88	MACH	DY	DX, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	89-111	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	112-114	MACH	DX	DY, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	115-117	MACH	DY	DX, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
AWRY	118-130	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
AW	131-133	MACH	INCID	CN, CLM, CA, CY, CYN, CBL, CL, CD
AW	134	MACH	ALPHAO	BETAO, CN, CLM, CA, CY, CYN, CBL, CL, CD
BX	1-4	MACH	ALPHAO	CPCO, CPB1, CPB2, CPB3
BX	5-6	MACH	ALPHAO	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2
BX	7	MACH	DZ	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO
BX	8-11	MACH	ALPHAO	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2
BX	12-13	MACH	ALPHAO	CPCO, CPS1, CPS2
BX	14-15	MACH	INCID	CPCO, CPS1, CPS2
BX	30-52	MACH	DZ	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	53-61	MACH	DY	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	62-67	MACH	DX	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC

TABLE II (Continued)

DATA SET 1st CHARACTER IDENTIFIER	DATA SET NUMBER	INDEPENDENT VARIABLE		DEPENDENT VARIABLES
		FIRST	SECOND	
BX	68-82	MACH	DZ	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	83-85	MACH	DX	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	86-88	MACH	DY	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	89-111	MACH	DZ	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	112-114	MACH	DX	CPCO, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	115-117	MACH	DY	CPCO, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	118-130	MACH	DZ	CPCO, CPS1, CPS2, ALPHAO, BETAO, INCID, ALPHAC
BX	131-133	MACH	INCID	CPCO, CPS1, CPS2
BX	134	MACH	ALPHAO	CPCO, CPB1, CPB2, CPB3, CPS1, CPS2
RY	16-23	MACH	ALPHAC	BETAC, CN, CLM, CA, CY, CYN, CBL, CL, CD
RY	24	MACH	DZ	DY, DX, CN, CLM, CA, CY, CYN, CBL, CL, CD
RY	25	MACH	DX	DY, DZ, CN, CLM, CA, CY, CYN, CBL, CL, CD
RY	26-29	MACH	ALPHAC	BETAC, CN, CLM, CA, CY, CYN, CBL, CL, CD
SZ	16-23	MACH	ALPHAC	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF)
SZ	24	MACH	DZ	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC
SZ	25	MACH	DX	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC
SZ	26-29	MACH	ALPHAC	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF)
SZ	30-52	MACH	DZ	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	53-61	MACH	DY	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	62-67	MACH	DX	CPCC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID

TABLE II (Concluded)

DATA SET 1st CHARACTER IDENTIFIER	DATA SET NUMBER	INDEPENDENT VARIABLE		DEPENDENT VARIABLES
		FIRST	SECOND	
SZ	68-82	MACH	DZ	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	83-85	MACH	DX	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	86-88	MACH	DY	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	89-111	MACH	DZ	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	112-114	MACH	DX	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	115-117	MACH	DY	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID
SZ	118-130	MACH	DZ	CPC, CPSB1, CPSB2, CPSB3, Q(PSF), ALPHAC, BETAC, ALPHAO, BETAO, INCID

TABLE III (MODEL DIMENSIONAL DATA)

a. Orbiter Model

MODEL COMPONENT : BODY - OML - B_{6L}

GENERAL DESCRIPTION : The body is an elongated structure containing the Crew Module and Cargo Bay. Same as IML plus 1" TPS.

MODEL SCALE: 0.0125

DRAWING NUMBER : VC70-000002, SS-A01377

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 235$ to 1519), In.	<u>1284.0</u>	<u>16.050</u>
Max Width ($X_0 = 1516.8$), In.	<u>262.718</u>	<u>3.284</u>
Max Depth ($X_0 = 1463.316$), In.	<u>248.575</u>	<u>3.107</u>
Fineness Ratio	<u>5.1365</u>	<u>5.1365</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>340.82</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : CANOPY (OUTER MOLD LINE) - C₁₁

GENERAL DESCRIPTION : The canopy is that part of the forward fuselage which covers the Crew Module. One inch TPS thickness on the canopy.

Configuration 140C.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, SS-A01377

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0=435.196 - 670.0$), In.	<u>234.80</u>	<u>2.935</u>
Max Width ($X_0 = 594.0$), In.	<u>195.58</u>	<u>2.445</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

WINDSHIELD PLANES:

$$\begin{aligned}
 .7012 X_0 - .2552 Y_0 - .6656 Z_0 - 6.1789 &= 0 \\
 .5710 X_0 - .5641 Y_0 - .5965 Z_0 + 32.7354 &= 0 \\
 .2636 X_0 - .7564 Y_0 - .5965 Z_0 + 189.4099 &= 0
 \end{aligned}$$

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : ELEVON - E₁₁

GENERAL DESCRIPTION : 6.0 In. F.S. gaps machined into E₂₆ elevon.

Flipper doors, centerbody pieces, and tipseals are not simulated. (Data are for one side.)

MODEL SCALE: 0.0125

DRAWING NUMBER : Not available.

DIMENSIONS :	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>210.00</u>	<u>0.033</u>
Span (equivalent), In.,	<u>349.2</u>	<u>4.365</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>1.475</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>0.690</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of area & c) Area Moment (Normalized hinge line), Ft ³	<u>1587.25</u>	<u>0.003</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.134</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: BODY FLAP - F₁₄

GENERAL DESCRIPTION: The body flap is a secondary movable airfoil
located at the aft end of the body.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>135.75</u>	<u>0.021</u>
Span (equivalent), In.	<u>241.33</u>	<u>3.017</u>
Inb'd equivalent chord, In.	<u>81.0</u>	<u>1.013</u>
Outb'd equivalent chord, In.	<u>81.0</u>	<u>1.013</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.0</u>	<u>0.0</u>
At Outb'd equiv. chord	<u>0.0</u>	<u>0.0</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>0.0</u>	<u>0.0</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
Area Moment (Product of Area & \bar{c}) (Normal to hingeline), Ft ³	<u>916.31</u>	<u>0.0018</u>
Mean Aerodynamic Chord, In.	<u>81.0</u>	<u>1.013</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : OMS PODS (OML) - M_{1g}

GENERAL DESCRIPTION : The OMS pods are nacelles housing the maneuvering engines and are located on the fuselage on either side of the vertical tail. Same as IML plus 1/2" TPS.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, VL70-843001

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0=1311 - 1511$), In.	<u>200.00</u>	<u>2.500</u>
Max Width ($X_0 = 304$), In.	<u>135.75</u>	<u>1.697</u>
Max Depth ($X_0 = 304$), In.	<u>74.5</u>	<u>0.931</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>58.169</u>	<u>0.009</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: NOZZLES - N_{Q2}

GENERAL DESCRIPTION: The two orbiter maneuvering system nozzles are level-bell shaped and are located at the aft end of the OMS pods. These dimensions are external and are not to be used for plume tests.

MODEL SCALE: 0.0125

DRAWING NUMBER: MC62100009, VC70-000002, VL70-008401, Aerojet 1181900

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>56.00</u>	<u>0.700</u>
Throat to Exit Plane	<u>56.00</u>	<u>0.700</u>
Diameter - In.		
Exit	<u>45.09</u>	<u>0.564</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>11.09</u>	<u>0.139</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
X	<u>1518.0</u>	<u>18.975</u>
Y	<u>88.0</u>	<u>1.100</u>
Z	<u>492.0</u>	<u>6.150</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>
Null Position - Deg.		
Pitch	<u>15.82°</u>	<u>15.82°</u>
Yaw	<u>6.5°</u>	<u>6.5°</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>

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TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: MPC NOZZLES - N₉₄

GENERAL DESCRIPTION: The main propulsion nozzles are Laval-bell shaped and are located on the aft planes of the orbiter. These dimensions are external and are not to be scaled for plume tests.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, VL70-008144; RS009169, RS009107, 13M15000

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.00</u>	<u>1.963</u>
Throat to Exit Plane	<u> </u>	<u> </u>
Diameter - In.		
Exit	<u>97.914</u>	<u>1.224</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>52.290</u>	<u>0.008</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X ₀	<u>1445.0</u>	<u>18.063</u>
Y ₀	<u>0.0</u>	<u>0.0</u>
Z ₀	<u>443.0</u>	<u>5.538</u>
Lower Nozzles		
X ₀	<u>1468.170</u>	<u>18.352</u>
Y ₀	<u>53.00</u>	<u>0.663</u>
Z ₀	<u>342.640</u>	<u>4.283</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16.0</u>	<u>16.0</u>
Yaw	<u>0.0</u>	<u>0.0</u>
Lower Nozzle		
Pitch	<u>10.0</u>	<u>10.0</u>
Yaw	<u>3.5</u>	<u>3.5</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: MPG NOZZLES - N₁₀₅

GENERAL DESCRIPTION: Same as N₉₄ except the upper nozzle is removed.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, VL70-008144; RS009169, RS009107, 13M15000

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.00</u>	<u>1.963</u>
Throat to Exit Plane	<u> </u>	<u> </u>
Diameter - In.		
Exit	<u>97.914</u>	<u>1.224</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>52.290</u>	<u>0.008</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u> </u>	<u> </u>
Y	<u> </u>	<u> </u>
Z	<u> </u>	<u> </u>
Lower Nozzles		
X ₀	<u>1468.170</u>	<u>18.352</u>
Y ₀	<u>53.00</u>	<u>0.663</u>
Z ₀	<u>342.640</u>	<u>4.283</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u> </u>	<u> </u>
Yaw	<u> </u>	<u> </u>
Lower Nozzle		
Pitch	<u>10.0</u>	<u>10.0</u>
Yaw	<u>3.5</u>	<u>3.5</u>

TABLE III (Cont'd)

a. Orbiter model

MODEL COMPONENT : RUDDER - R₁₈

GENERAL DESCRIPTION : The rudder is a secondary movable airfoil at the trailing edge of the vertical fin that imparts yaw forces. This dimensional data was calculated from the OML master dimensions 7-19-74.

MODEL SCALE: 0.0125

DRAWING NUMBER : _____

DIMENSIONS :	FULL SCALE	MODEL SCALE
Area = Ft ²	<u>97.148</u>	<u>0.015</u>
Span (equivalent) , In.	<u>198.614</u>	<u>2.483</u>
Inb'd equivalent chord, In.	<u>90.07</u>	<u>1.126</u>
Outb'd equivalent chord , In.	<u>50.80</u>	<u>0.635</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>34.833</u>	<u>34.833</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline	<u>34.833</u>	<u>34.833</u>
(MAC X AREA, Ft ³)	<u> </u>	<u> </u>
Area Moment (MAC X AREA, Ft ³)	<u>584.99</u>	<u>0.0011</u>
Mean Aerodynamic Chord, In.	<u>72.260</u>	<u>0.903</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : ORBITER TAILCONE - TC₁

GENERAL DESCRIPTION : Fairing mounted on orbiter fuselage base for ferry missions configuration.

MODEL SCALE: 0.0125

DRAWING NUMBER : SS-A01452

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>435.76</u>	<u>5.447</u>
Max Width	<u>300.80</u>	<u>3.76</u>
Max Depth Height	<u>266.40</u>	<u>3.33</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>462.37</u>	<u>0.0722</u>
Planform	<u>635.803</u>	<u>0.0993</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: VERTICAL - V₂₃ (Outer Mold Lines)

GENERAL DESCRIPTION: The vertical tail is double-wedge shaped and mounted dorsally on the aft fuselage. These data correspond to configuration 140C.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, master dimensions.

DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²	<u>413.253</u>	<u>0.065</u>
Planform	<u>315.72</u>	<u>3.947</u>
Span (Theo) - In.	<u>1.675</u>	<u>1.675</u>
Aspect Ratio	<u>0.507</u>	<u>0.507</u>
Rate of Taper	<u>0.404</u>	<u>0.404</u>
Taper Ratio		
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>3.356</u>
Tip (Theo) WP	<u>108.47</u>	<u>1.356</u>
MAC	<u>199.81</u>	<u>2.498</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>18.294</u>
W.P. of .25 MAC	<u>635.52</u>	<u>7.944</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.0250</u>
Void Area	<u>13.17</u>	<u>0.0002</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION:

NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing. Geometric twist = 0.

MODEL SCALE: 0.0125

TEST NO.

DWG. NO. VI-70-000110A -000200

DIMENSIONS:

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FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

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

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

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

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

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

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

2690.00	0.420
936.68	11.709
2.265	2.265
1.177	1.177
0.200	0.200
3.500	3.500
0.500	0.500
45.00	45.00
= 10.056	= 10.056
35.209	35.209
689.24	8.616
137.85	1.723
474.81	5.935
1136.83	14.210
290.58	3.632
182.13	2.277
1751.50	0.274
720.68	9.009
2.059	2.059
0.245	0.245
562.09	7.026
137.85	1.723
392.83	4.910
1185.98	14.825
294.30	3.679
251.77	3.147
0.113	0.113
0.120	0.120
119.16	0.0177
500.0	6.250
1024.0	12.800

TABLE III (MODEL DIMENSIONAL DATA)

a. Orbiter Model (Concluded)

MODEL COMPONENT : Mounting Strut - S₁

GENERAL DESCRIPTION : Blade strut attachment to orbiter aft upper fuselage where vertical tail is normally mounted. Strut leading edge and lower trailing edge conform to the vertical tail planform. Airfoil section is blunted diamond. The tip of the strut mounts to a sting.

MODEL SCALE: 0.0125

DRAWING NUMBER: Rockwell W-11335H

DIMENSIONS :

MODEL SCALE

Theoretical intersection of L.E.
with fuselage ML, in.

x_0

15.973

z_0

6.250

Leading edge sweep angle, deg.

45.0

Trailing edge sweep angle, deg.

45.0

chord length, in.

2.38

maximum thickness, in.

0.52

distance from L.E. to maximum
thickness, in.

1.42

position of sting ζ , in. z_0

12.835

TABLE III (MODEL DIMENSIONAL DATA)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT96

GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, faired struts, $i_0 = 4^\circ$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg. 747-MD-654, SS-A01559-4, -18, -35

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, deg. (Orbiter FRL to 747 FRL)		4.0	4.0
Fairing chord, right and left, In.		31.0	0.388
Fairing T/C		0.226	0.226
Carrier attach points, In.	BSTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach points, In.	X_0	388.15	4.852
	Z_0	283.11	3.539
	Y_0	0.0	0.0
	BSTA	681.52	8.519
	BWL	480.4	6.005

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₉

GENERAL DESCRIPTION: Aft attach structure between orbiter and carrier, same as AT₉₅ with a single fairing covering the main strut and drag strut on each side, and a fairing on the sway brace.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-658, W-1135A-11, -12, SS-A01559-33, -34, -35

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Orbiter attach points, In.	X ₀	1317.0	16.462
	Y ₀	± 96.51	± 1.206
	Z ₀ , BL	267.5	3.344
	BSTA	1607.0	20.087
	BWL	400.0	5.000
Main fairing:			
Root chord, In.		250.0	3.125
T/c of root chord		0.09	0.09
Tip chord, In.		120.0	1.500
T/c of tip chord		0.14	0.14
Sway brace:			
Chord, In.		31.0	0.388
T/c		0.226	0.226

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₁₂

GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier with truncated strut fairings. The Orbiter/strut attach point is covered with a "bathtub" fairing, and the 747/strut attach points are also faired over. Struts are set in the $i_0 = 4^\circ$ position.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwgs. 747-MD-680 (Modified), AX 1319-224

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, deg. (Orbiter FRL to 747 FRL)	4.0	4.0
Strut Fairing		
Chord, In.	18.667	0.233
t/c	0.480	0.480
Length, (Each side), In.	112.0	1.400
Orbiter/Strut "Bathtub" Fairing		
Chord, In.	87.20	1.09
t/c	0.275	0.275
Carrier Attach Points, In.		
BSTA	680.0	8.500
BWL	372.0	4.650
BL	406.3	5.0829
Orbiter Attach Point, In.		
X_0	388.15	4.852
Z_0	233.11	3.539
Y_0	0.0	0.0
BSTA	680.0	8.500
BWL	480.4	6.005

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TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₁₃

GENERAL DESCRIPTION: Aft attach structure between Orbiter and Carrier, all components except the drag struts are faired. Consists of two faired vertical members, two sway braces, and two drag struts. There are fairing blisters at each end of the sway braces and on the forward end of the drag struts.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwgs. 747-MD-683, AX 1319-213

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Orbiter Attach Points, In.			
	X _o	1317.0	16.462
	Y _o	±96.51	±1.206
	Z _o	267.5	3.344
	BSTA	1607.0	20.087
	BWL	400.0	5.000
747 Attach Points, In.			
	BSTA	1607.0	20.087
	BWL	320.0	4.000
	BL	±96.51	±1.206
Main Strut Fairings			
	Root chord (BWL 320-358.8), In.	80.0	
	t/c, Root chord	0.183	0.183
	Tip chord, Theoretical (BWL 398), In.	137.0	1.713
	t/c, Tip chord, Theoretical	0.250	0.250
Sway Brace Fairings			
	Chord, In.	40.28	0.504
	t/c	0.180	0.180
	Length (Each side), In.	56.0	0.700
Drag Struts			
	Fwd attach points		
	BSTA, in.	1443	18.038
	BWL, in.	320	4.000
	BL, in.	±96.51	±1.206
	Diameter, In.	12.0	0.150

TABLE III (Cont'd)

MODEL COMPONENT : BCDY - ^{b.} B_{27.8} Carrier Model

GENERAL DESCRIPTION : Body 74-7 Project with A.P.V.

MODEL SCALE: 0.0125 MODEL DWG: 1318I-1

DRAWING NUMBER : 65C13609, 1318-54

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length , In.	<u>2702.0</u>	<u>33.78</u>
Max Width , In.	<u>255.3</u>	<u>3.19</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>9.73</u>	<u>9.73</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u>14.093</u>	<u>2.20</u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: HORIZONTAL TAIL - H_{15.6}

GENERAL DESCRIPTION: Horizontal tail, H₁₅, with vertical fins on each
 tip at body B.L. 427.3

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-5, 1318-70

DIMENSIONS:

Fin Exposed Data (one side):

Area = Ft²

Span, In.

Chord, In.

FULL SCALE

MODEL SCALE

200.0

0.0312

252.0

3.15

113.6

1.42

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: M₂₅

GENERAL DESCRIPTION: Inboard 747, JT9D nacelle strut

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Wing B.L. of nacelle C _L , In.	470.0	5.875
Cant angle deg., inboard	2.0	2.0

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: M₂₆

GENERAL DESCRIPTION: Outboard 747, JT9D

Strut

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
W L of C _L , In.	834.0	10.425
Cant angle, deg. inboard	2.0	2.0

TABLE III (Cont'd).

b. Carrier Model

MODEL COMPONENT: N₅₇

GENERAL DESCRIPTION: Inboard fan cowl and primary 747 nacelle, flow-through type.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N₅₈

MODEL DESCRIPTION: Outboard fan cowl and primary 747 nacelle, flow-through type.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: SPOILERS - S_{1-12}

GENERAL DESCRIPTION: Multi-panel flight spoilers. Four outboard and two inboard spoilers per side. Subscript denotes spoiler panel S_1 is the most outboard L.H. panel and S_{12} is most outboard R.H. panel.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-56

DIMENSIONS: (ONE PANEL)	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Outboard S_{1-4} and S_{9-12} (Ft^2)	21.48	0.0034
Span (equivalent), In.	75.00	0.94
Chord, In.	41.28	0.52
Inboard, S_{5-6} and S_{7-8} (Ft^2)	35.31	0.0055
Span (equivalent), In.	90.00	1.130
Chord, In.	56.52	0.71

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: T₁₄

GENERAL DESCRIPTION: Flap track fairings, four on each side

MODEL SCALE: 0.0125

DRAWING NO.: 65C13609, 1318-67

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
WBL of Track No. 1, In.	235.3	2.94
2, In.	353.0	4.41
3, In.	585.0	7.31
4, In.	743.6	9.30
Distance from wing		
Trailing edge to:		
Track trailing edge, In.	44.0	0.55

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: VERTICAL - V_{9.1}

GENERAL DESCRIPTION: Swept vertical tail

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-8

DIMENSIONS:

FULL SCALE

MODEL SCALE

TOTAL DATA

Area (Theo), Ft ²	630.0	0.098
Span (Theo), In.	386.5	4.830
Sweepback angles, deg., L.E.	50.12	50.12
Aspect ratio	1.25	1.25
Chord:		
Root (Theo), WP, In.	461.67	5.77
Tip (Theo), WP, In.	157.0	1.96
Mean Aerodynamic Chord, In.	334.16	0.43
Fus. Sta. of 0.25 MAC	2529.6	31.62
W.P. of 0.25 MAC	528.0	6.60

TABLE III (Concluded)

b. Carrier Model

MODEL COMPONENT: WING - W_{44.1}

GENERAL DESCRIPTION: Swept 747 wing

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-46

DIMENSIONS:

FULL SCALE MODEL SCALE

Total Data:

Area (Theo.), Ft²

Planform

5500.00

0.860

Span (Theo.), In.

2348.0

29.35

Aspect ratio

6.96

6.96

Incidence angle, deg.

7.0

7.0

Chords, In.:

MAC

327.8

4.10

Fus. sta. of 0.25 MAC

1339.87

16.75

W.P. of 0.25 MAC

190.42

2.38

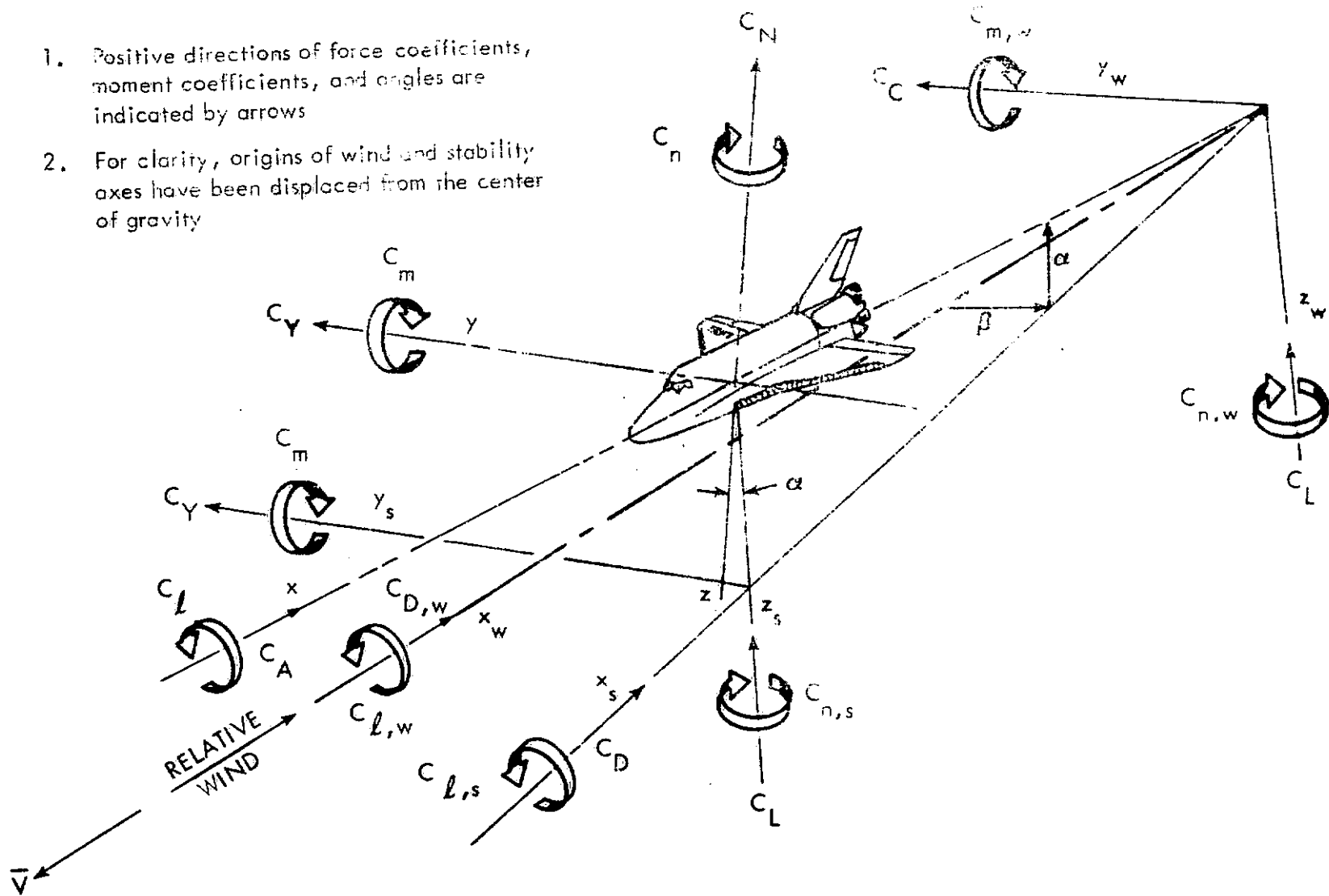
TABLE IV.

CA-26 DATASET DESCRIPTION

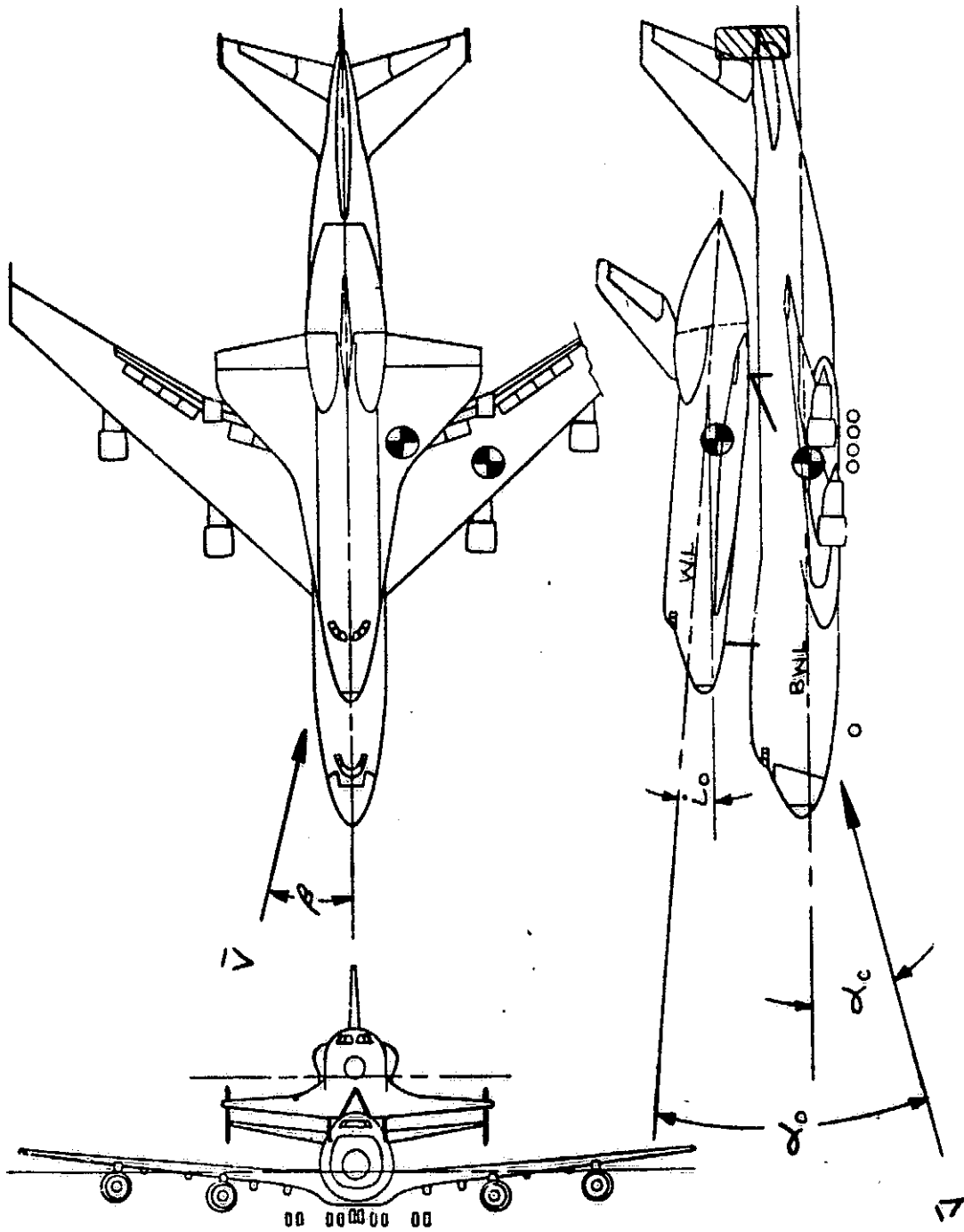
Dataset Type	Description
RFEXXX YFEXXX SFEXXX ZFEXXX	Carrier main balance data. Due to the large amount of data, alternate points were placed in corresponding datasets, e.g., R + S = total. Y and Z contain additional variables supplementary to R and S, respectively.
AFEXXX WFEXXX BFEXXX XFEXXX	Orbiter balance data. Data were separated similar to the carrier data where W and X contain the supplementary variables.

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



a. General
Figure 1. Axis systems.

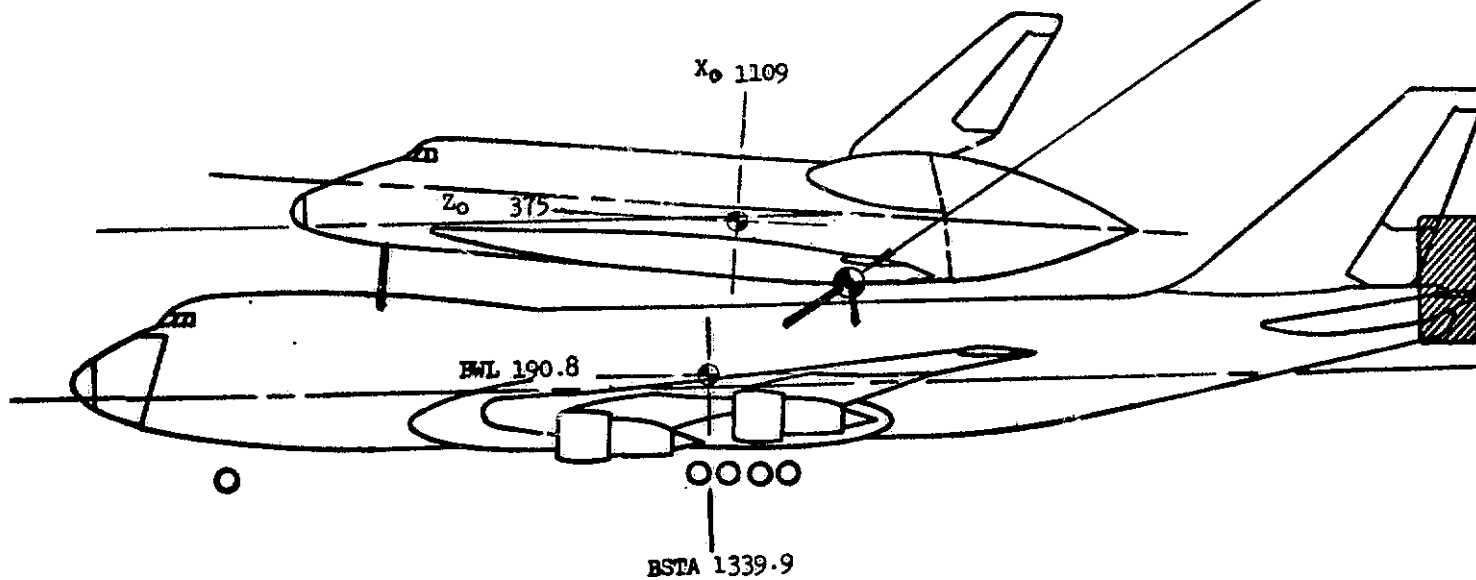


b. Orbiter/747 Angular Relations
Figure 1. Axis systems

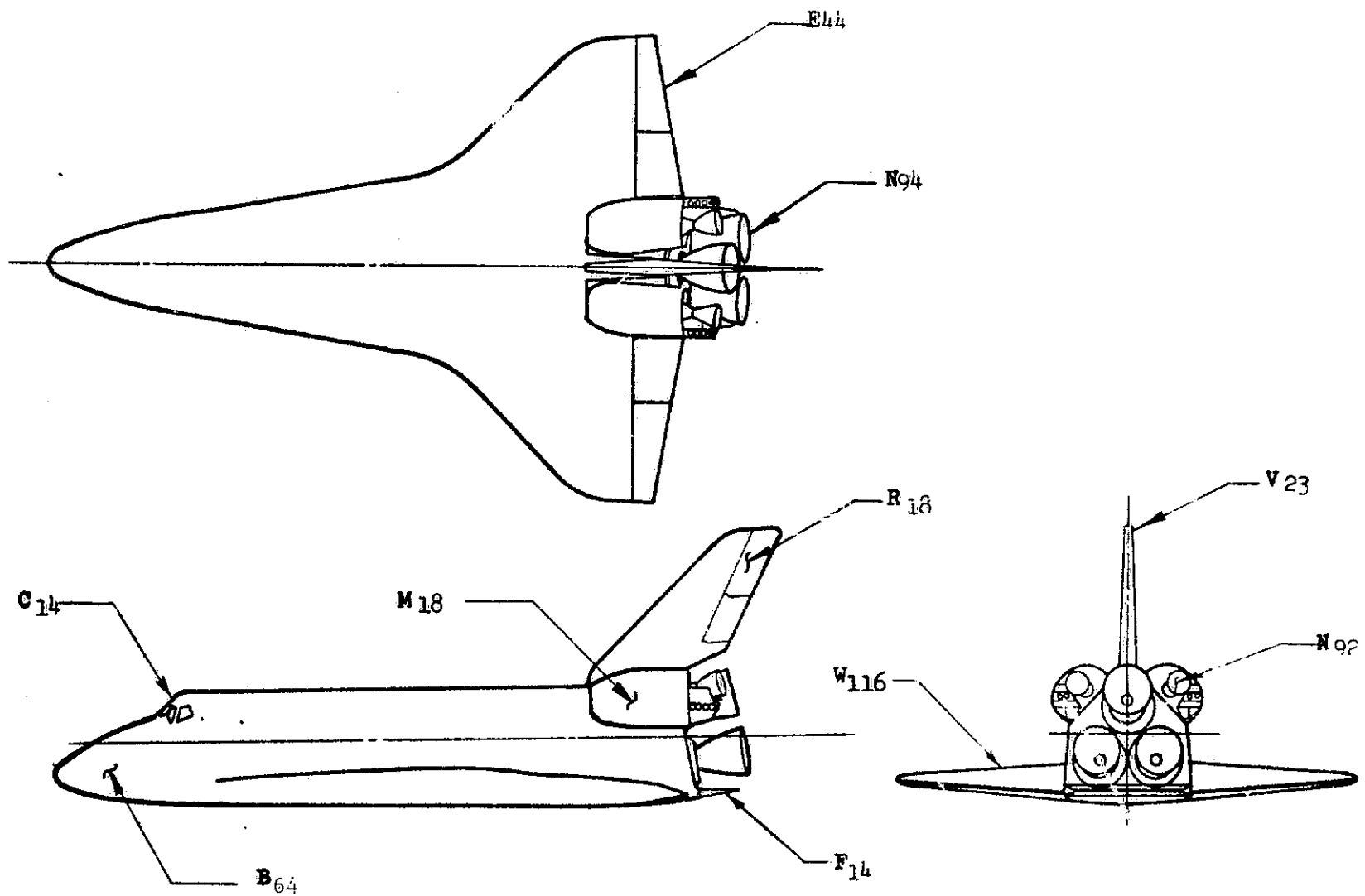
REFERENCE DIMENSIONS (FS)

	ORBITER	747 CARRIER
WING AREA ~ Ft ²	2690	5500
MAC (\bar{c}) ~ INCHES	474.81	327.78
SPAN (b) ~ INCHES	936.68	2348.04
MOMENT REFERENCE CENTER	67.5% LB	25.0 % \bar{c}
F.S. ~ INCHES	1109.0	1339.9
W.P. ~ INCHES	375.0	190.8

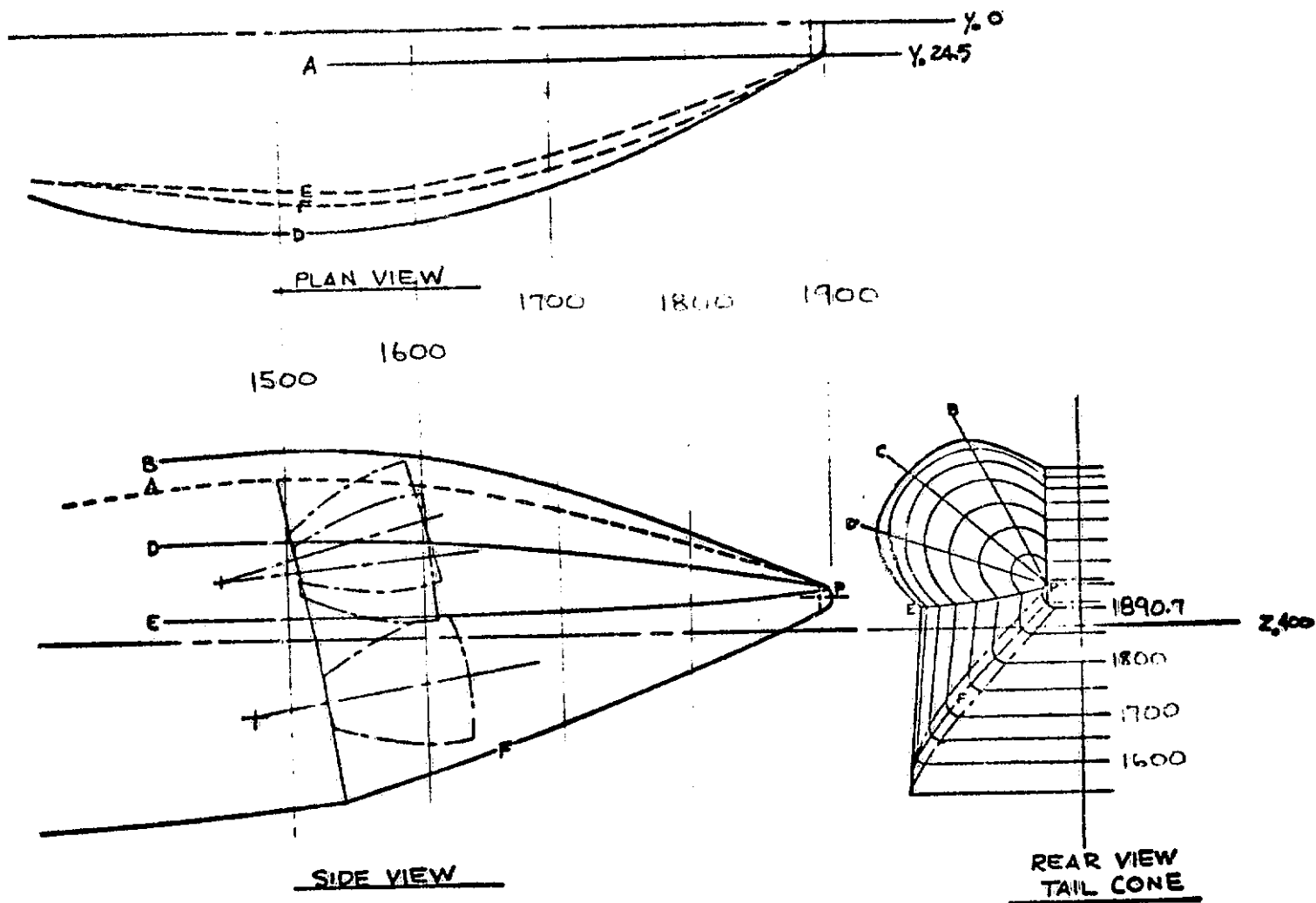
BWL 400 (X_0 96.51)
 BSTA 1607 (Z_0 267.5)
 (X_0 1317)



c. Orbiter/747 Flight Test Configuration Reference Dimensions
 Figure 1. Axis systems

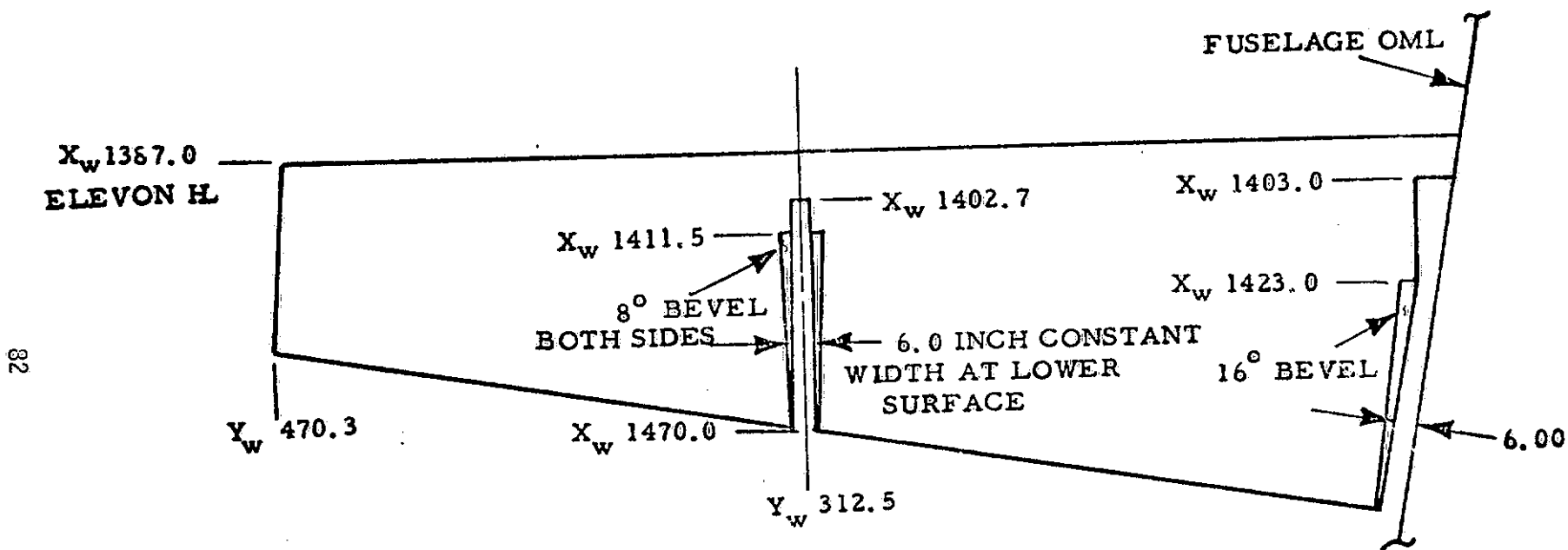


a. SSV Orbiter Configuration (VC70-000002)
 Figure 2. Model Instrumentation Sketches



b. Orbiter Tail Cone -- TC4 (X_{3B})
 Figure 2. Model Instrumentation Sketches

E₄₄ elevon with 6.0 inch gaps installed. Flipper doors, centerbody pieces, and tip seals are not simulated.

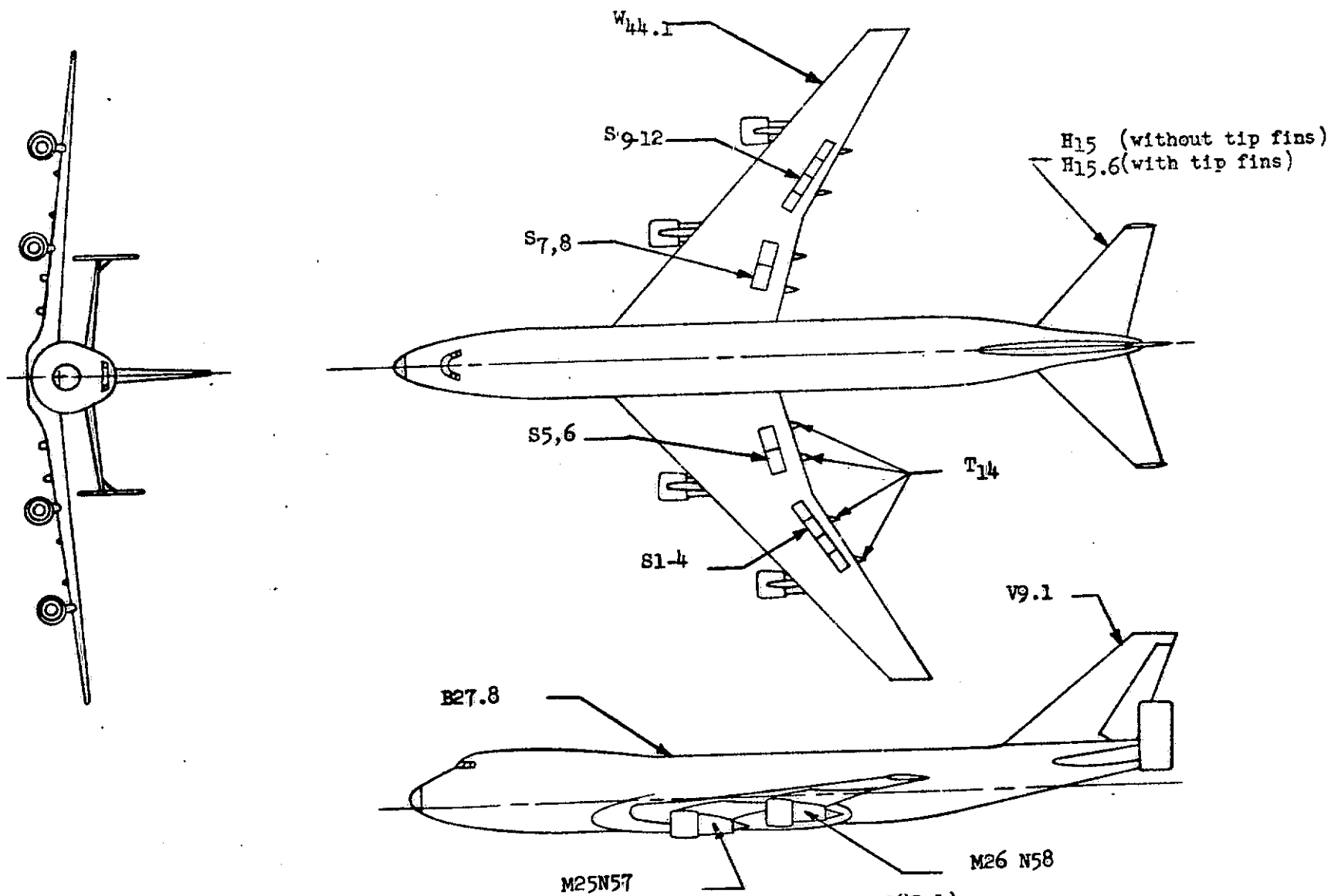


(ALL DIMENSIONS ARE FULL SCALE, INCHES)

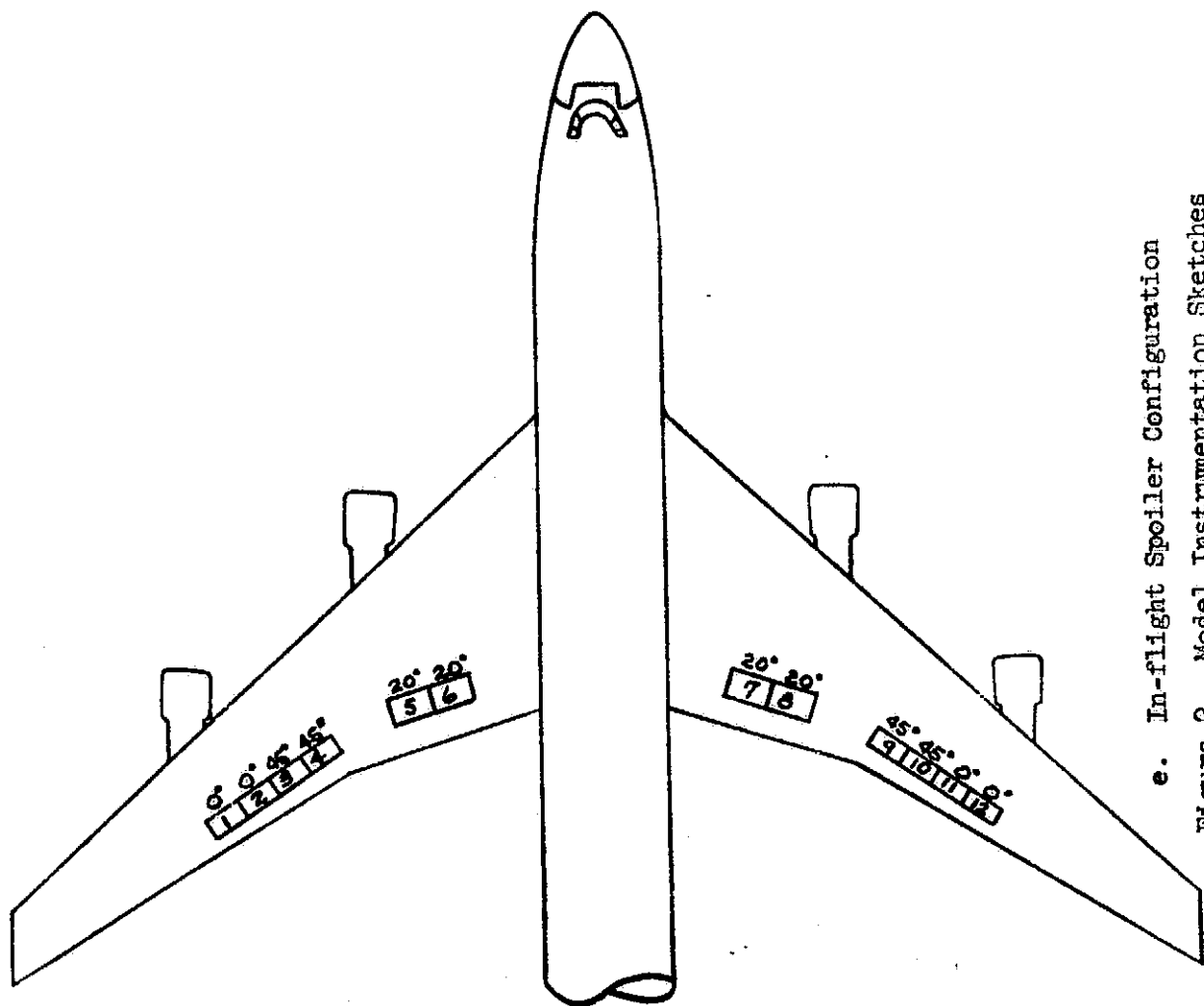
(VIEW IS PERPENDICULAR TO WING REFERENCE PLANE)

c. Elevon - E₄₄

Figure 2. Model Instrumentation Sketches

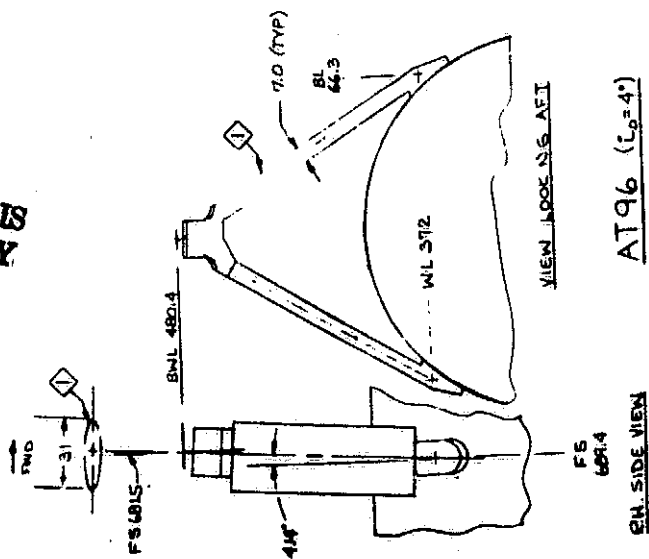


d. 747-100 Configuration (Model AX1318I-1)
 Figure 2. Model Instrumentation Sketches

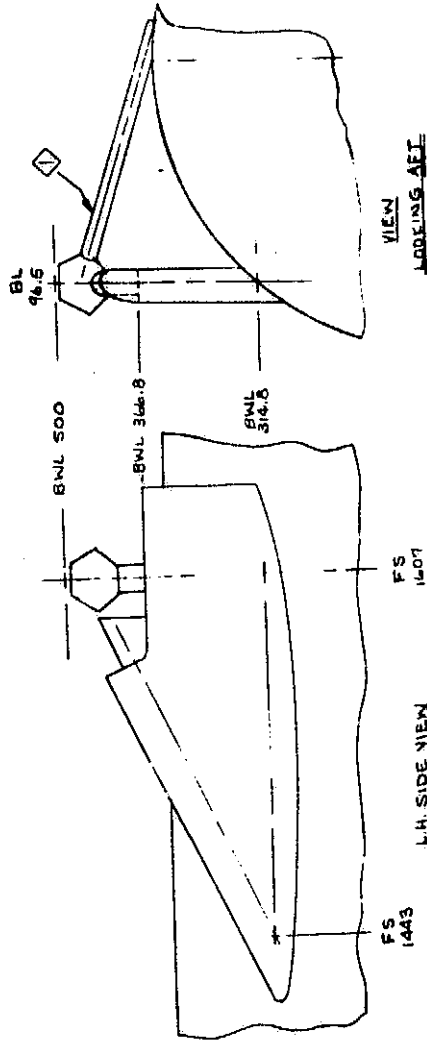


e. In-flight Spoiler Configuration
 Figure 2. Model Instrumentation Sketches

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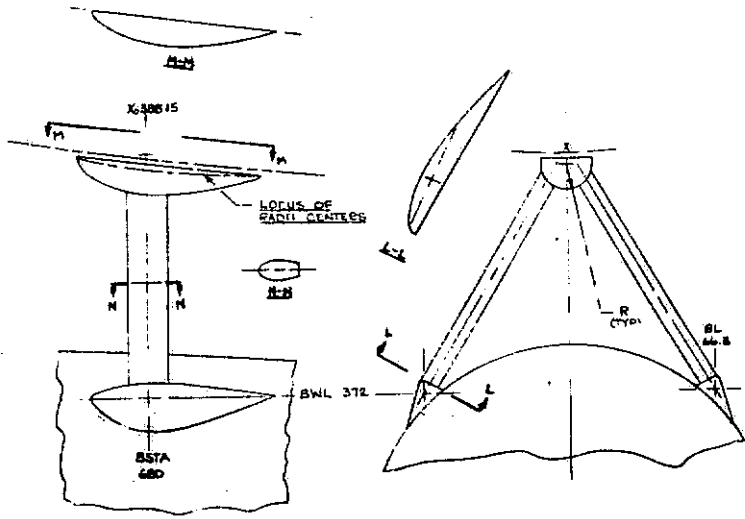


AT96 ($L_p=4'$)

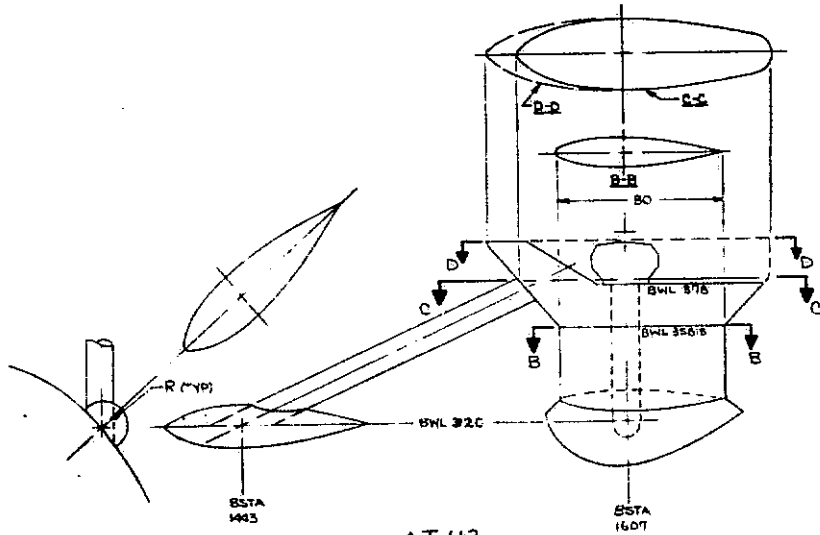


AT99

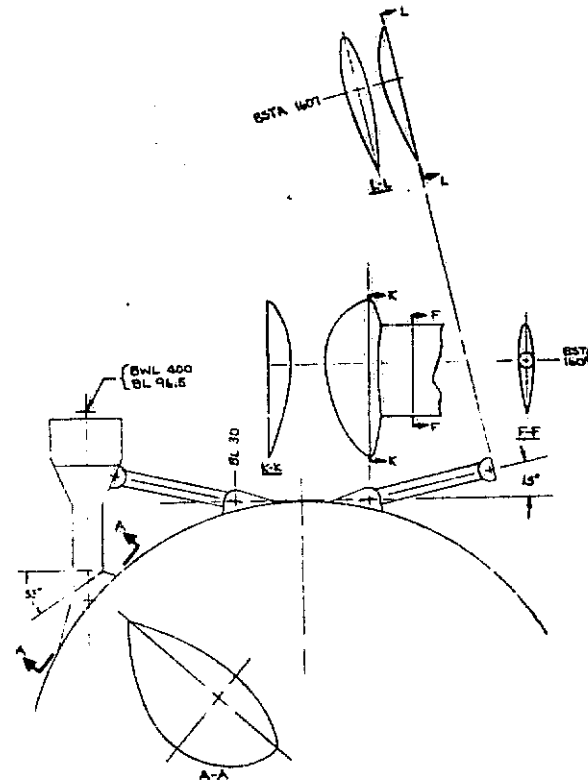
f. Simulated Attach Structure AT96 and AT99 (ATx)
Figure 2. Model Instrumentation Sketches



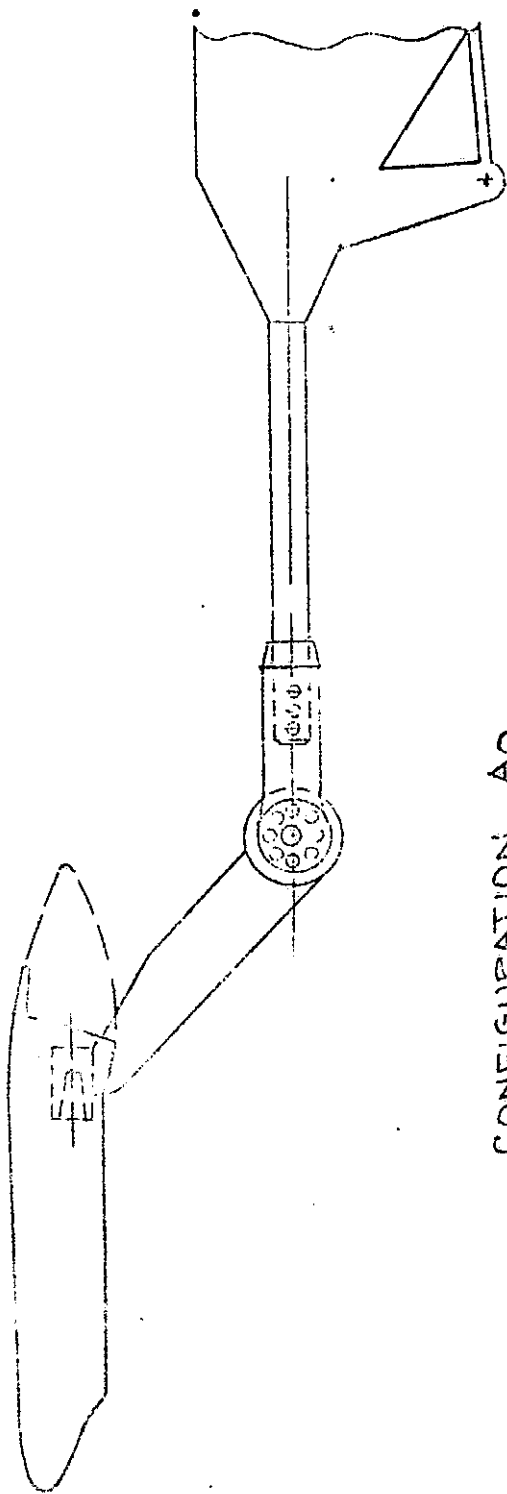
AT112



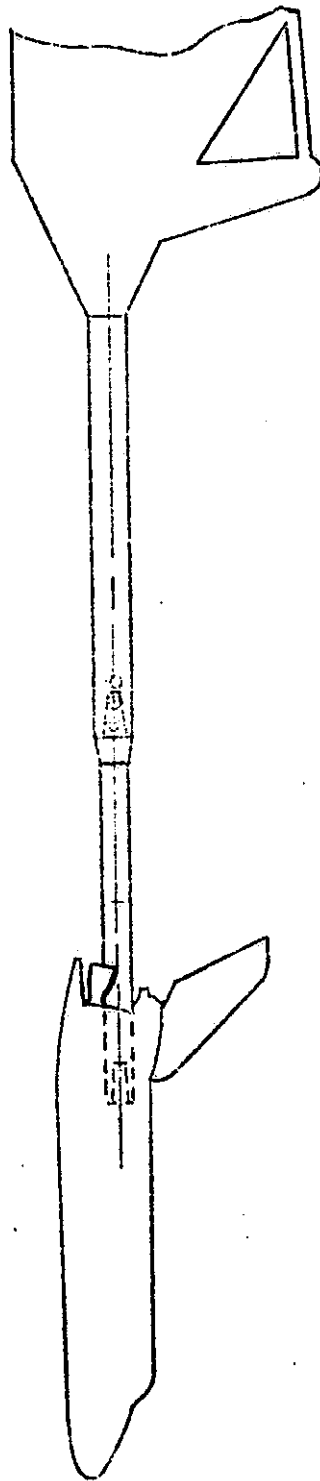
AT113



g. Simulated Attach Structure AT₁₁₂ and AT₁₁₃ (AT_y)
 Figure 2. Model Instrumentation Sketches



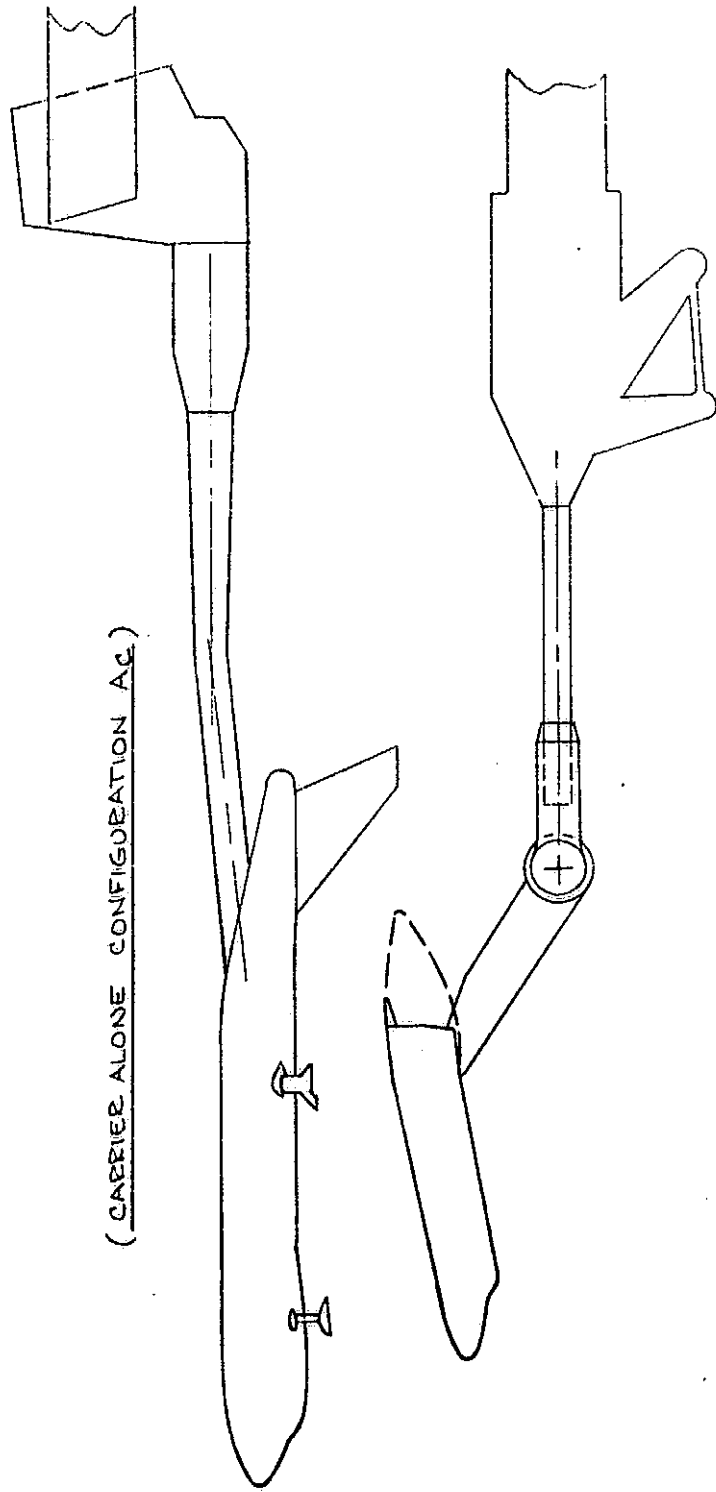
CONFIGURATION A0



CONFIGURATION A5

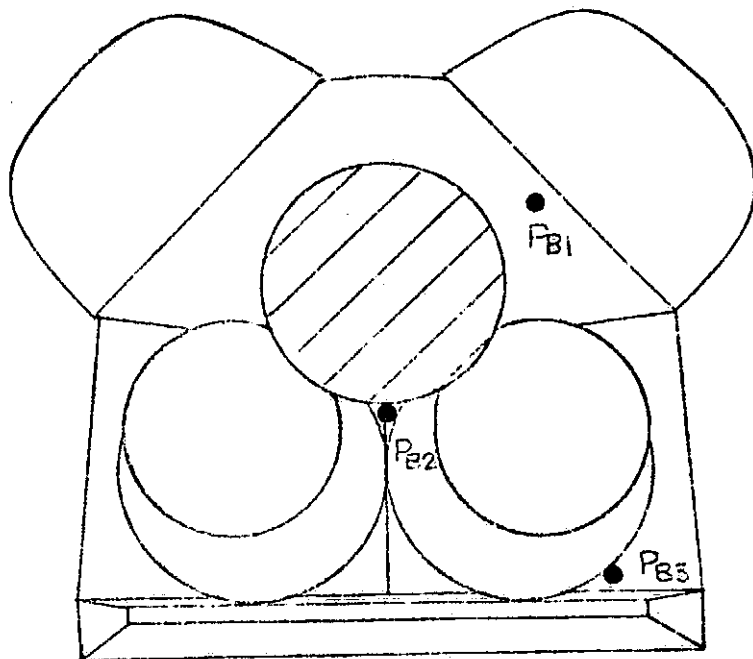
h. Orbiter Alone Installation Sketches

Figure 2. Model Instrumentation Sketches

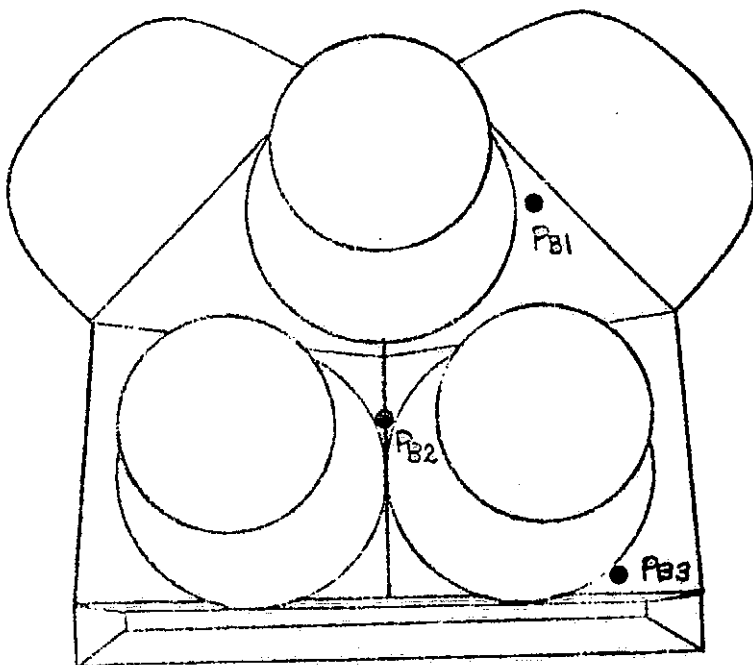


CONFIGURATION A1

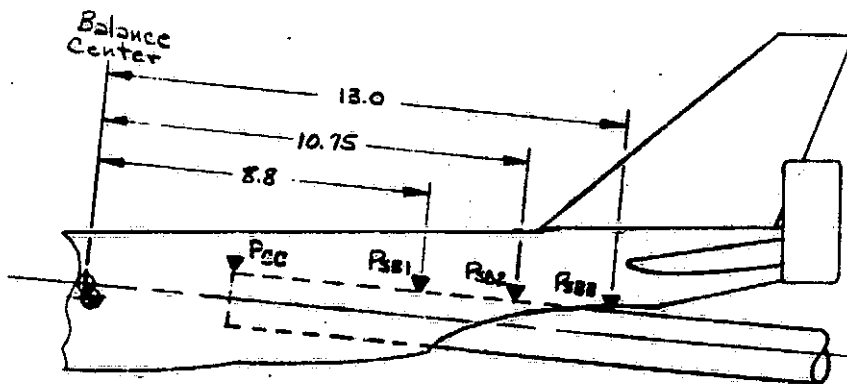
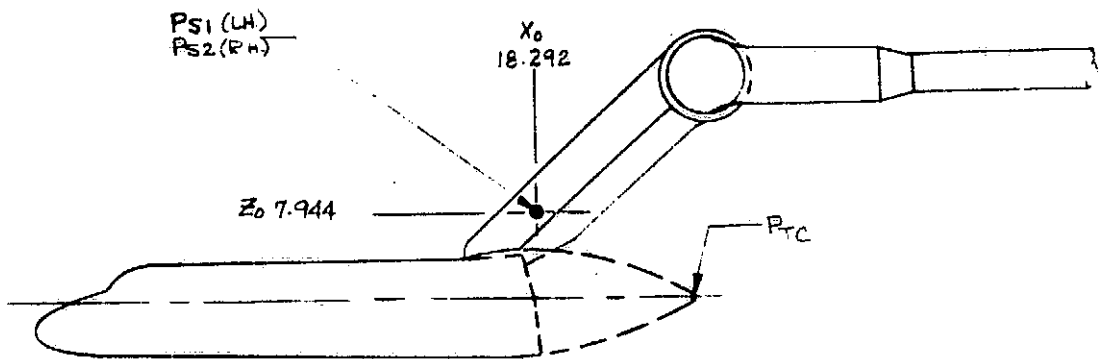
1. Carrier and Separation Installation Sketches
- Figure 2. Model Instrumentation Sketches



STING MOUNTED



J. Orbiter Base Pressure Tap Locations
 Figure 2. Model Instrumentation Sketches



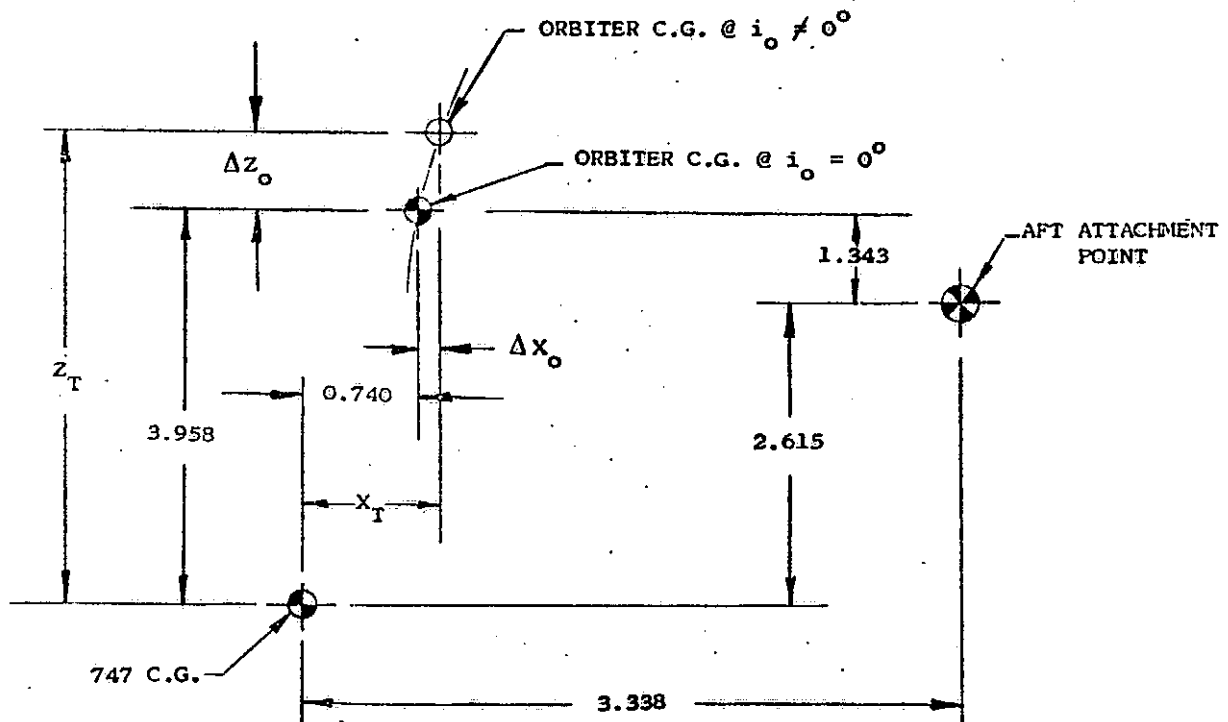
k. Sting and Strut Pressure Tap Locations
 Figure 2. Model Instrumentation Sketches

$$\Delta X_0 = 2.925 \cos(i_0 + 27.336)$$

$$\Delta Z_0 = 2.925 \sin(i_0 + 27.336) - 1.343$$

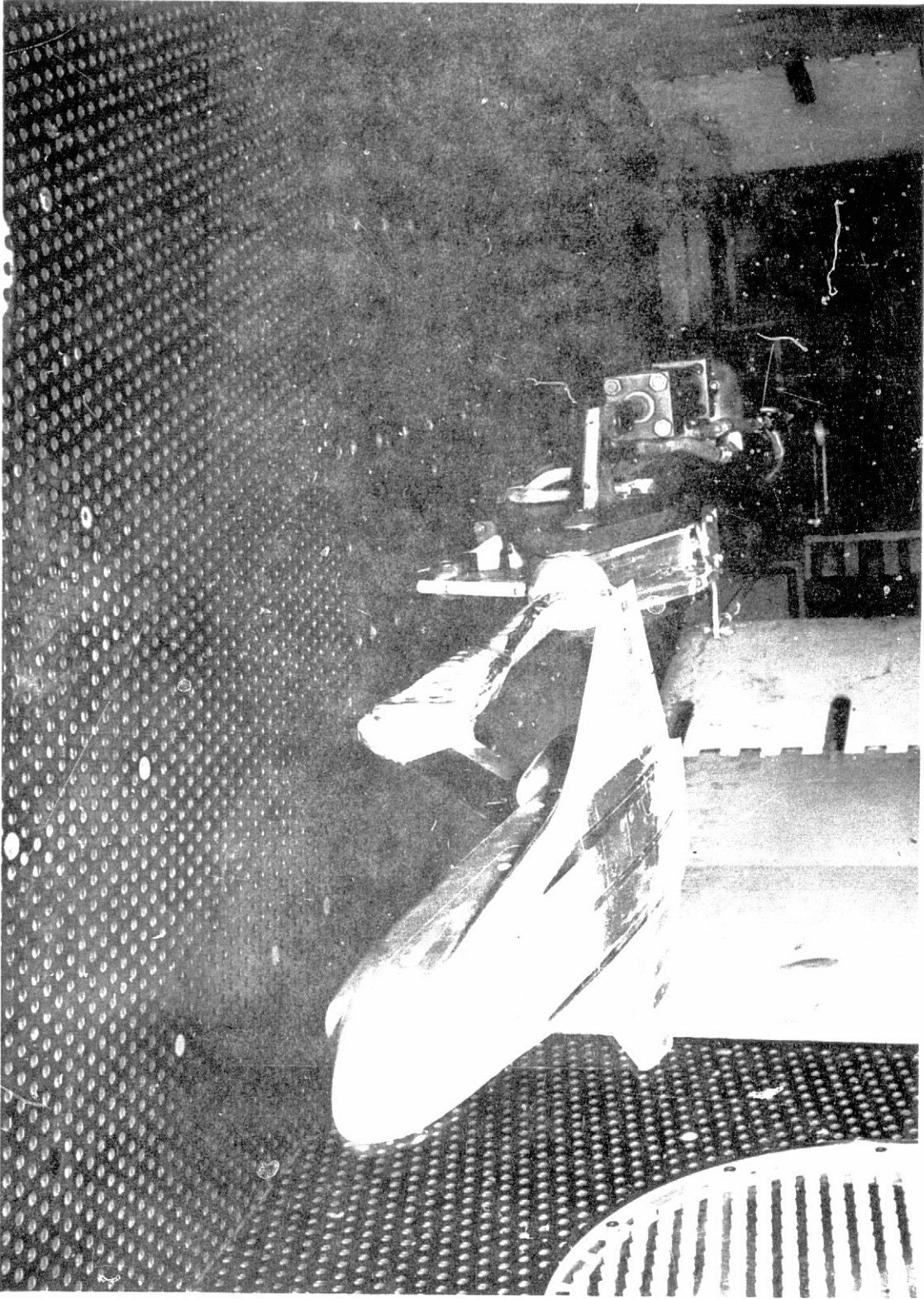
$$X_{\text{TRANSFER}} = 0.740 + \Delta X_0$$

$$Z_{\text{TRANSFER}} = 3.958 + \Delta Z_0$$



1. Orbiter/747 Moment Transfers (Mated)

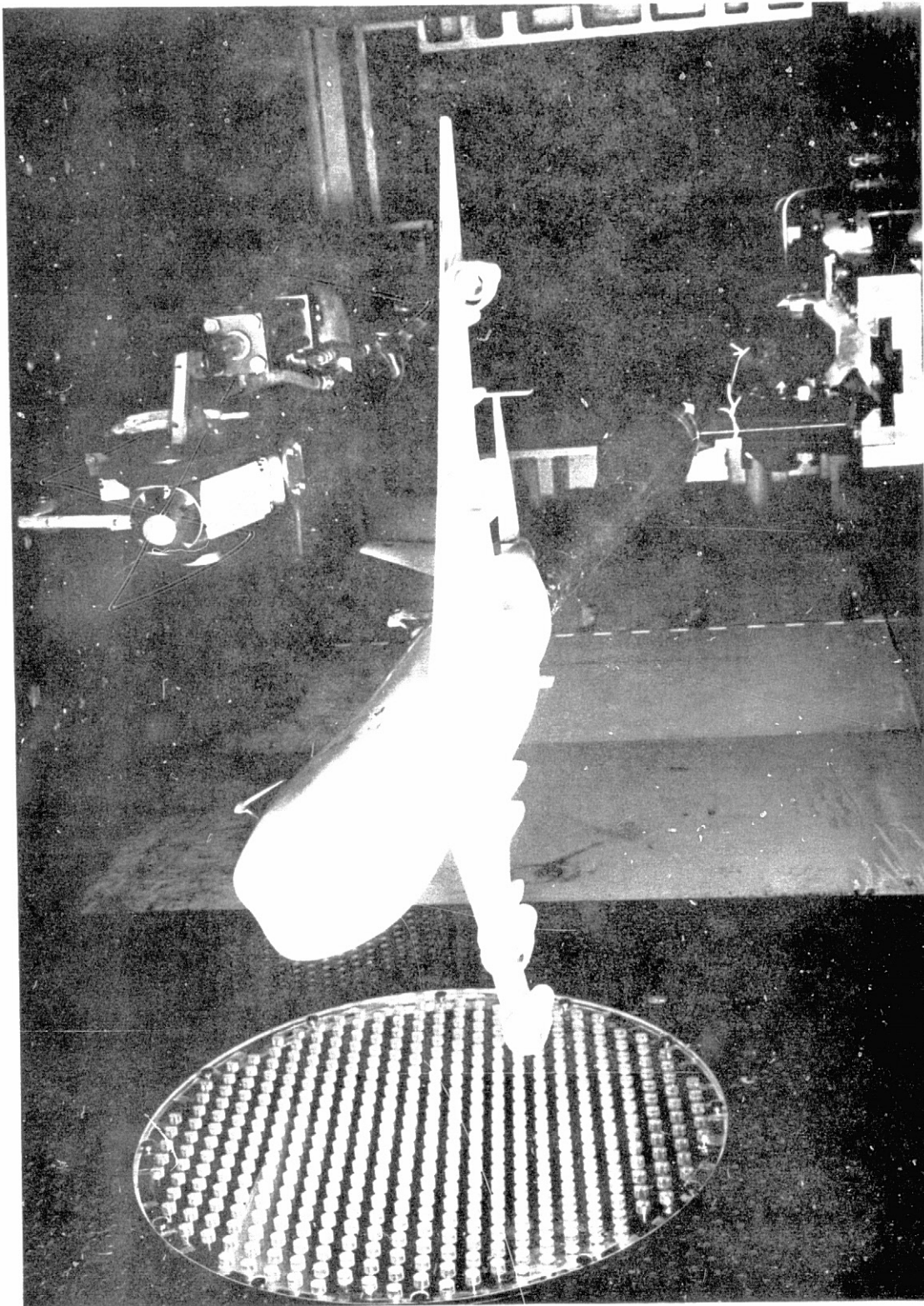
Figure 2. Model Instrumentation Sketches



a. Orbiter Alone

Figure 3. Model Installation

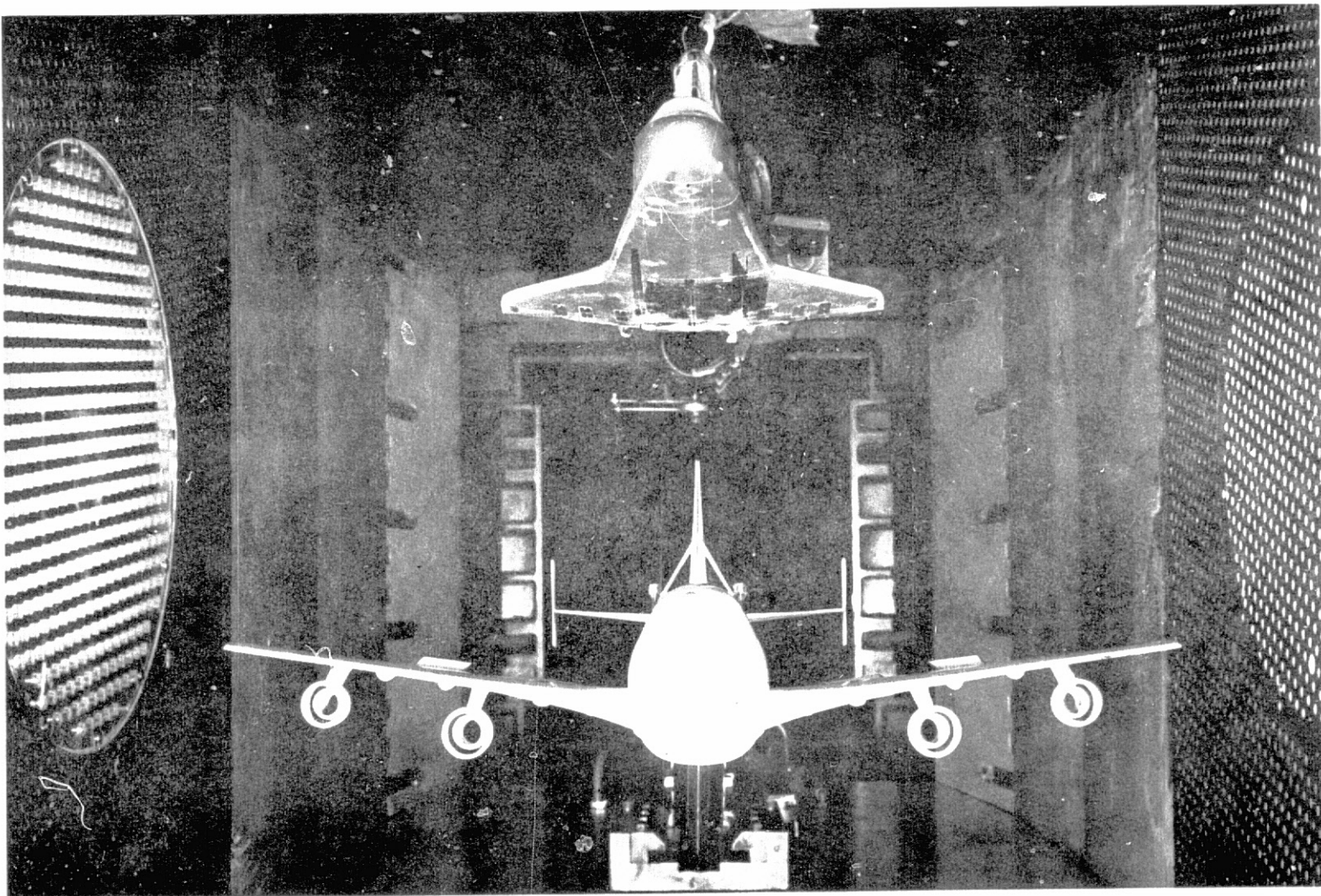
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b. 747 Alone

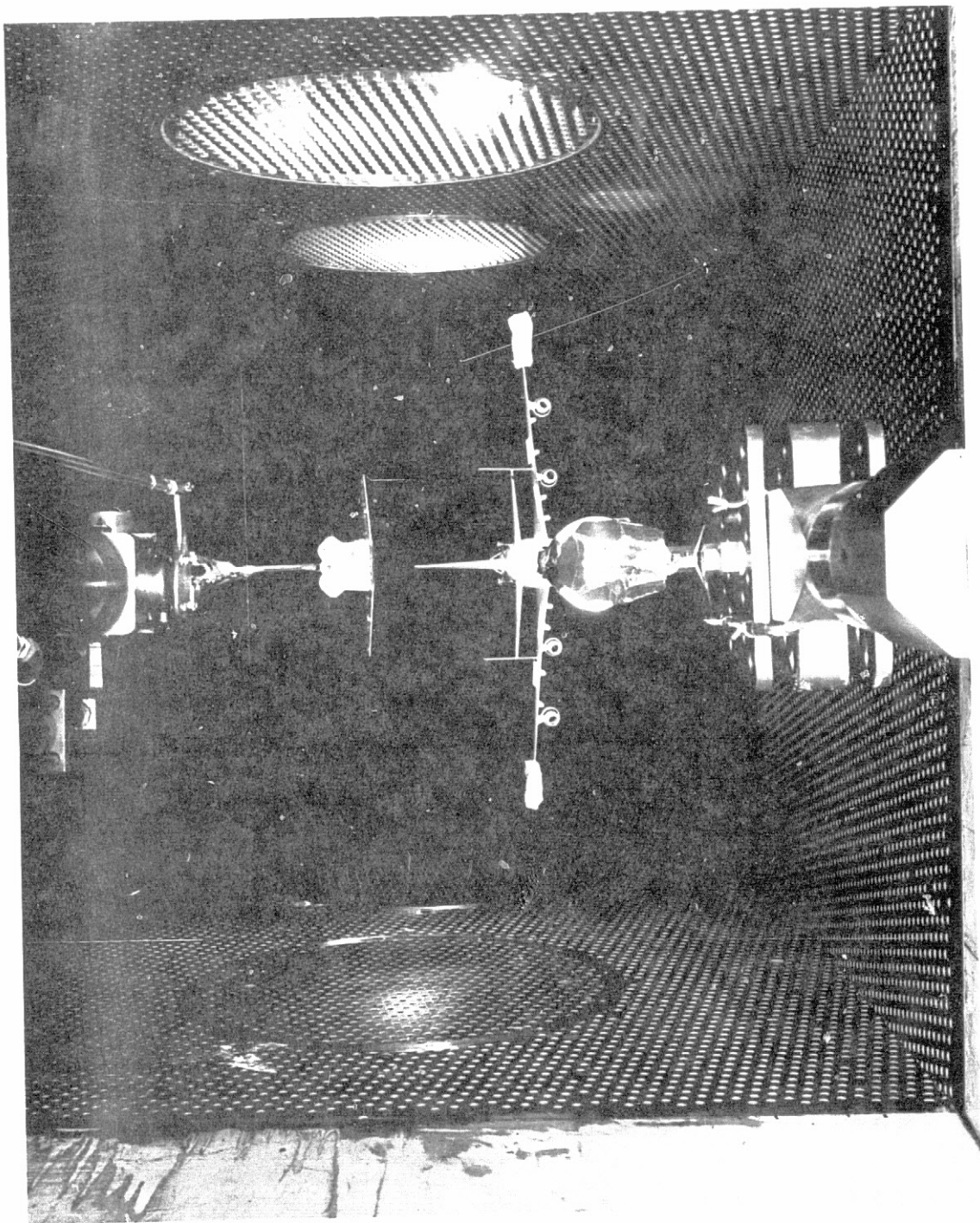
Figure 3. - Model Installation

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c. Front View, Orbiter Separating From 747

Figure 3. - Model installation



d. Rear View, Orbiter Separating From 747

Figure 3. Model Installation

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DATA FIGURES

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SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		SDFLAP	.000	DX	10.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

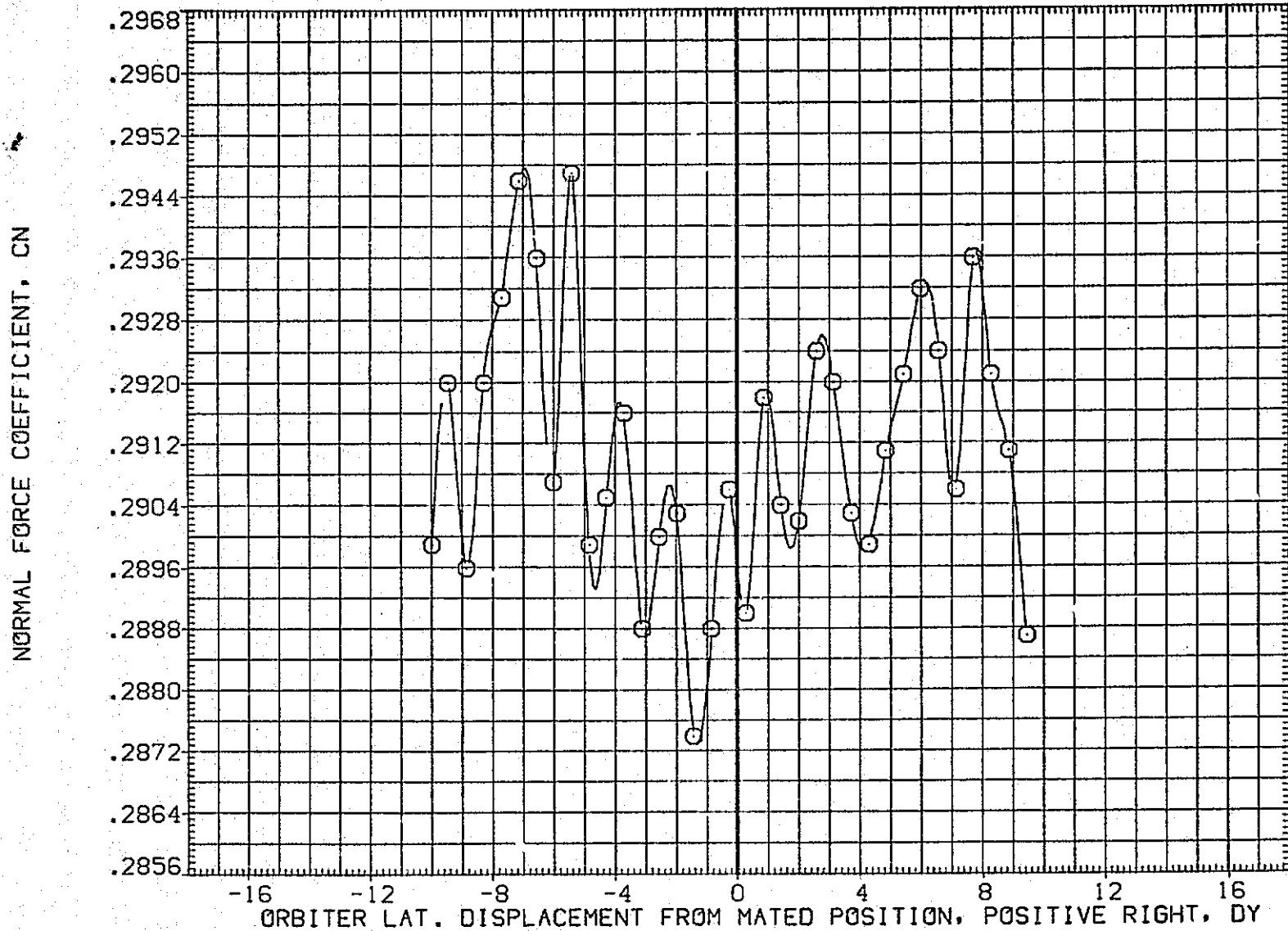


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	10.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

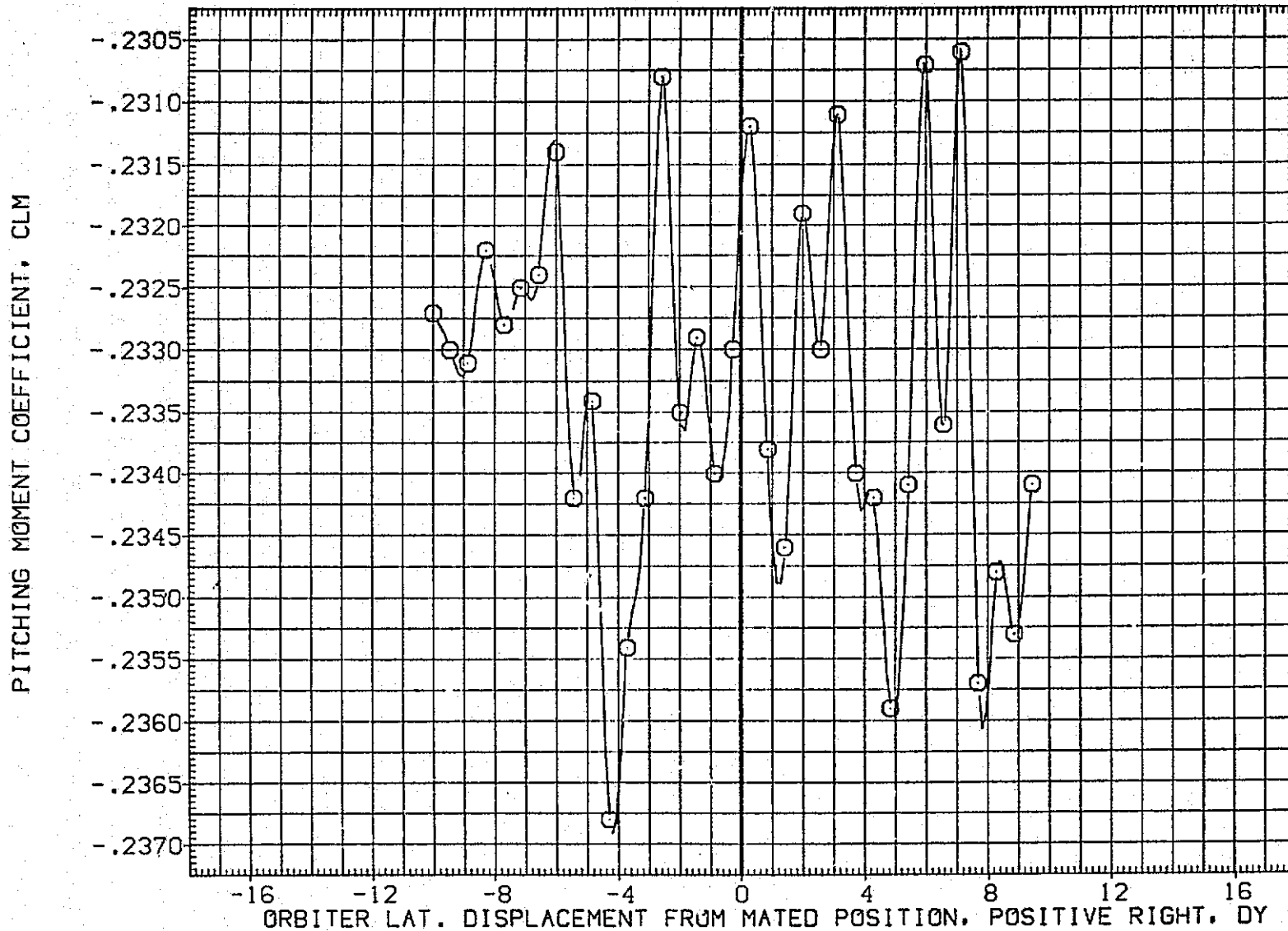


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE061)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	10.000
		DZ	60.000	ICRB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

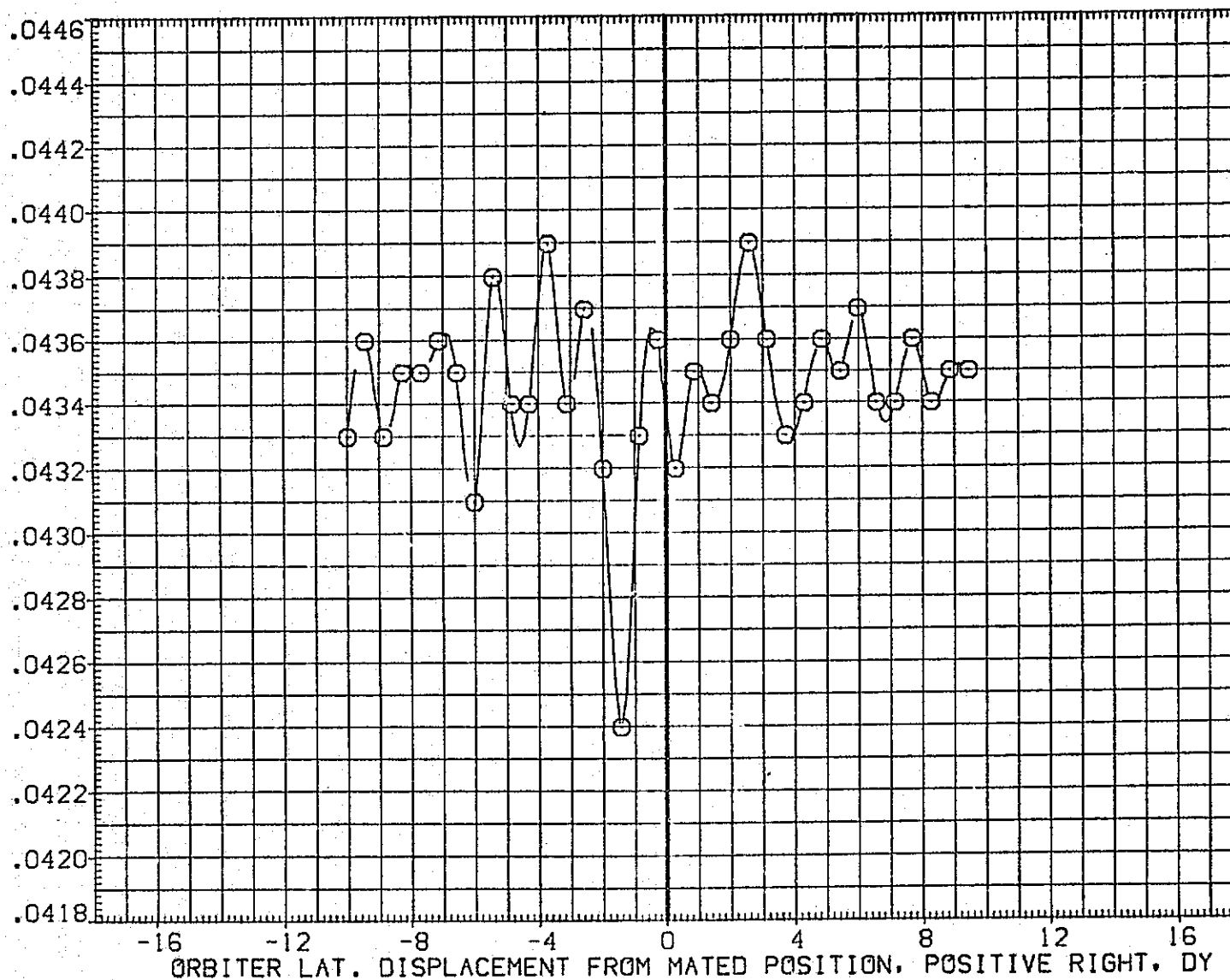


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=0, BETA0=0, RFE061

SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	10.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

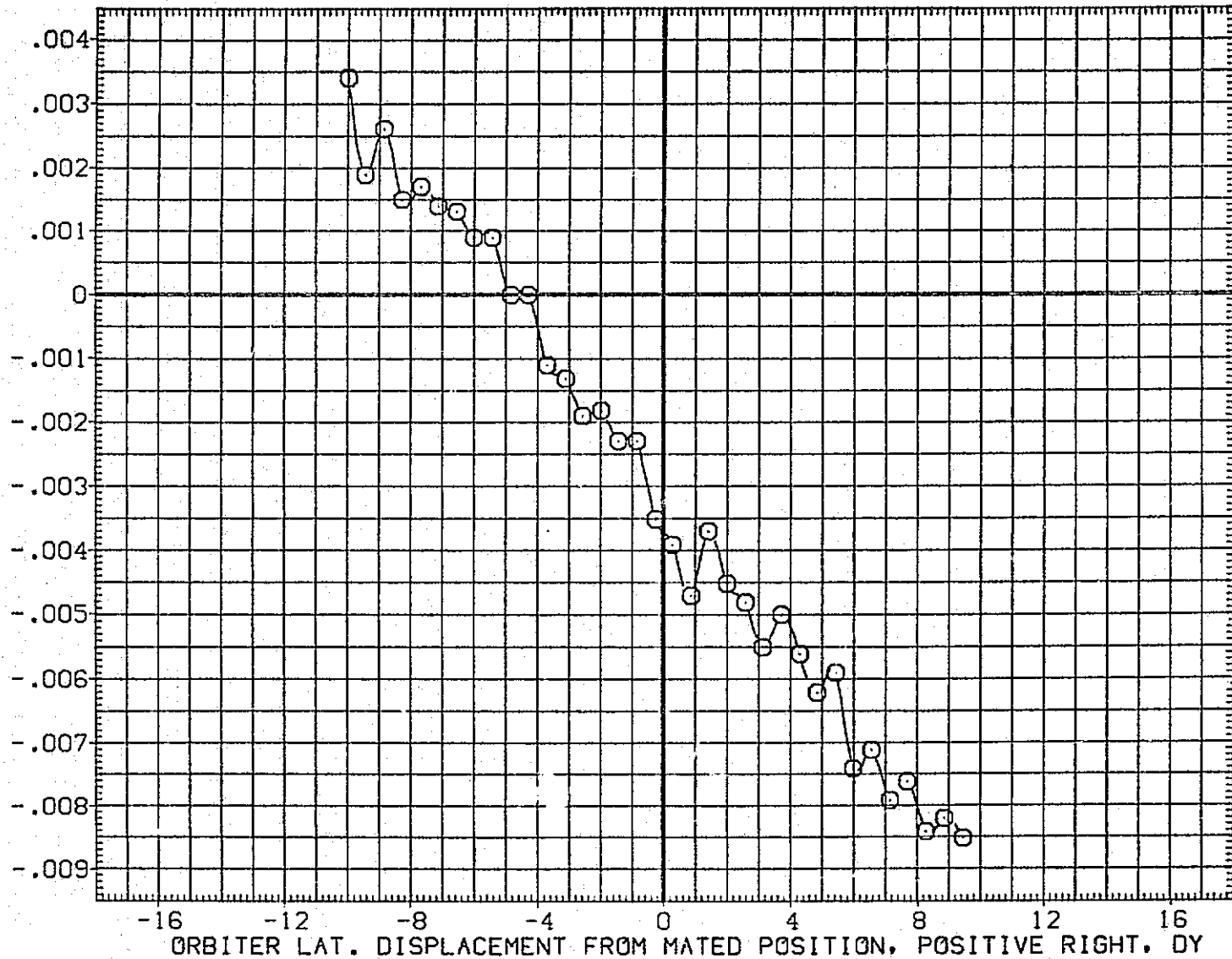


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE061)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	IN.
○	.607	2.000	.000	5.000	10.000	5500.0000	327.7800	5500.0000
		BDFLAP	IGRB	RUDDER		2348.0400	1339.9000	2348.0400
		DZ	BETA0			190.7500	.0125	190.7500

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

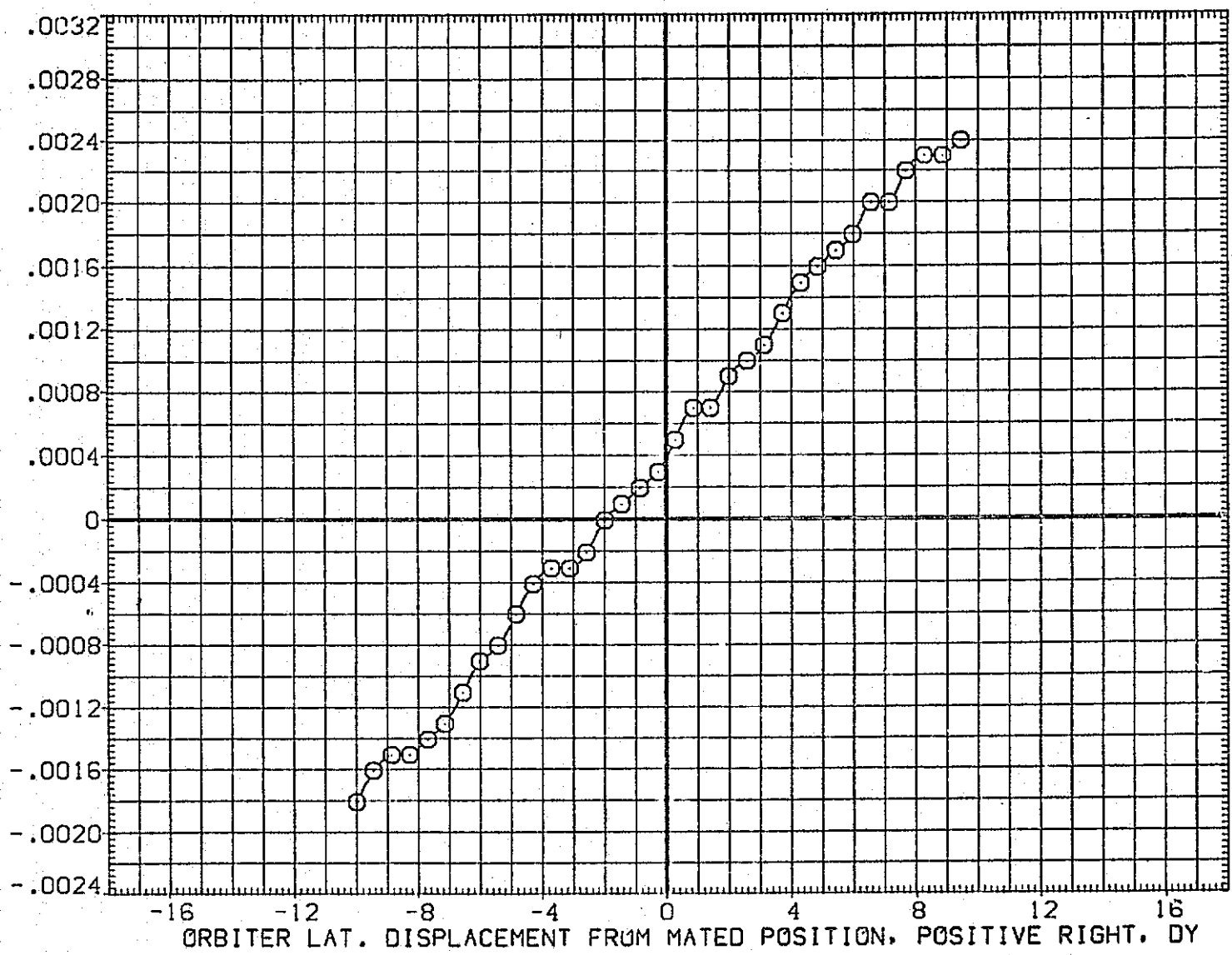


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	10.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

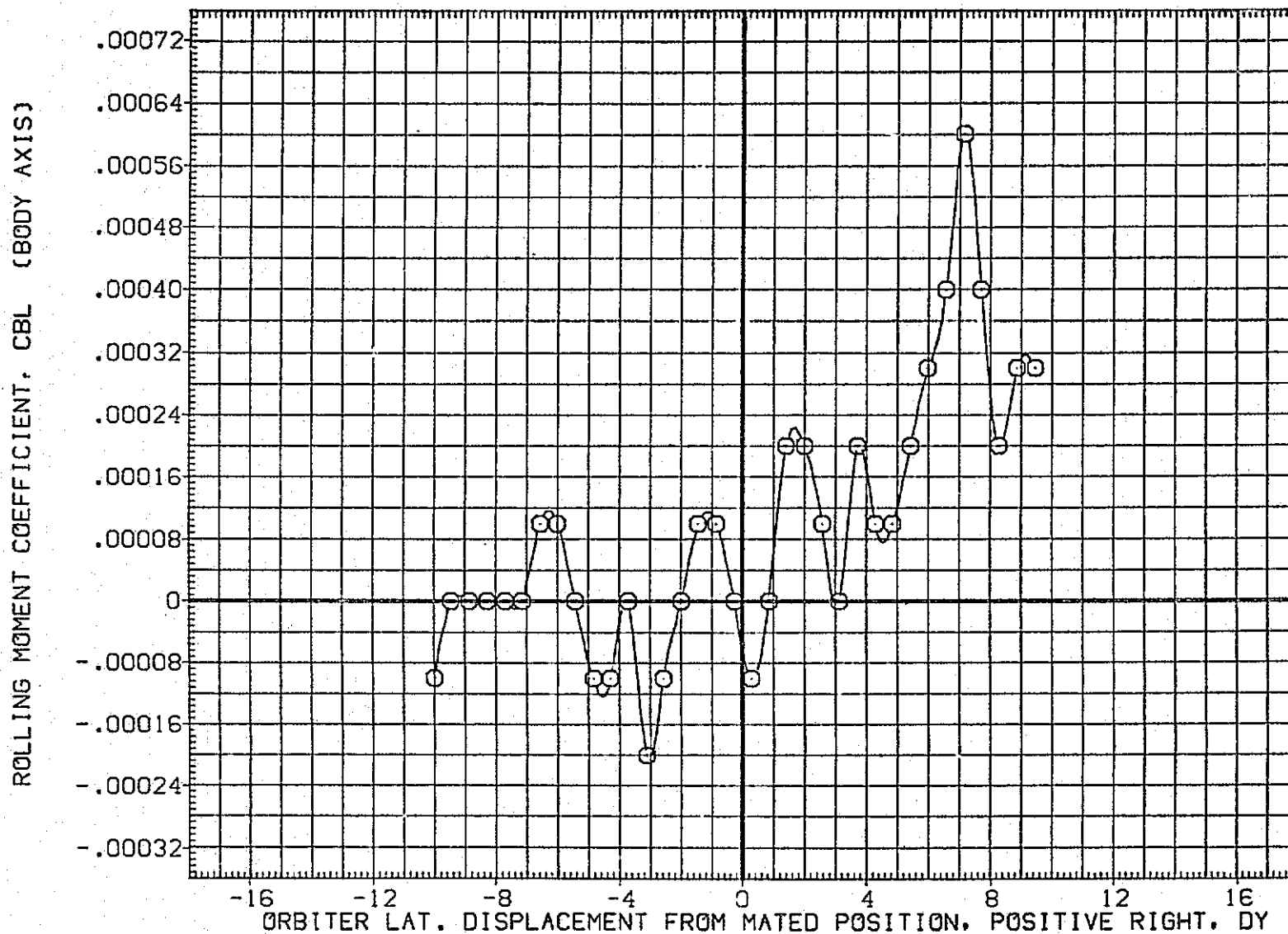


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE061)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.607	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	OX	10.000	BREF	2318.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

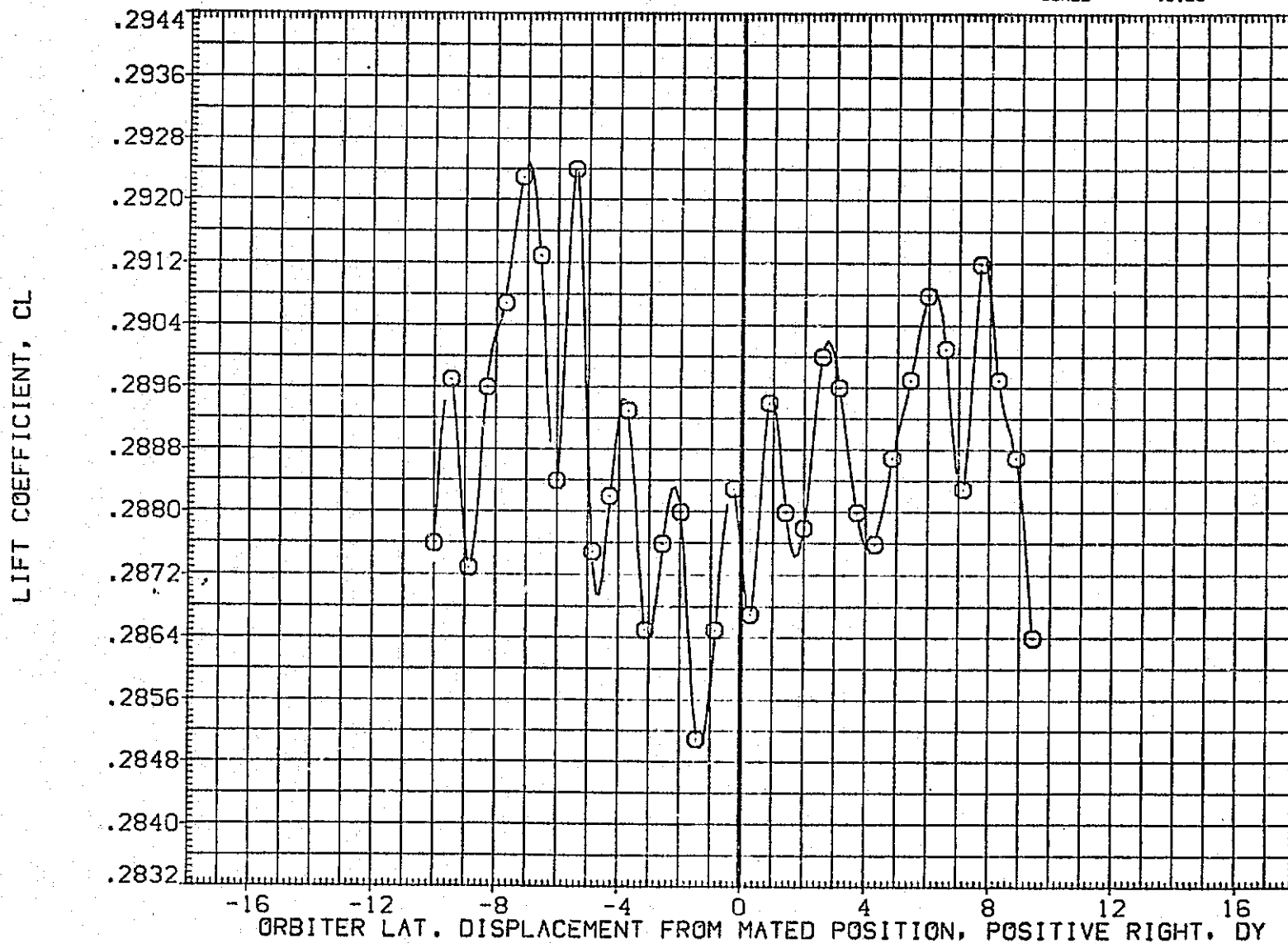


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

SYMBOL	MACH	PARAMETRIC VALUES			
○	.607	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	10.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

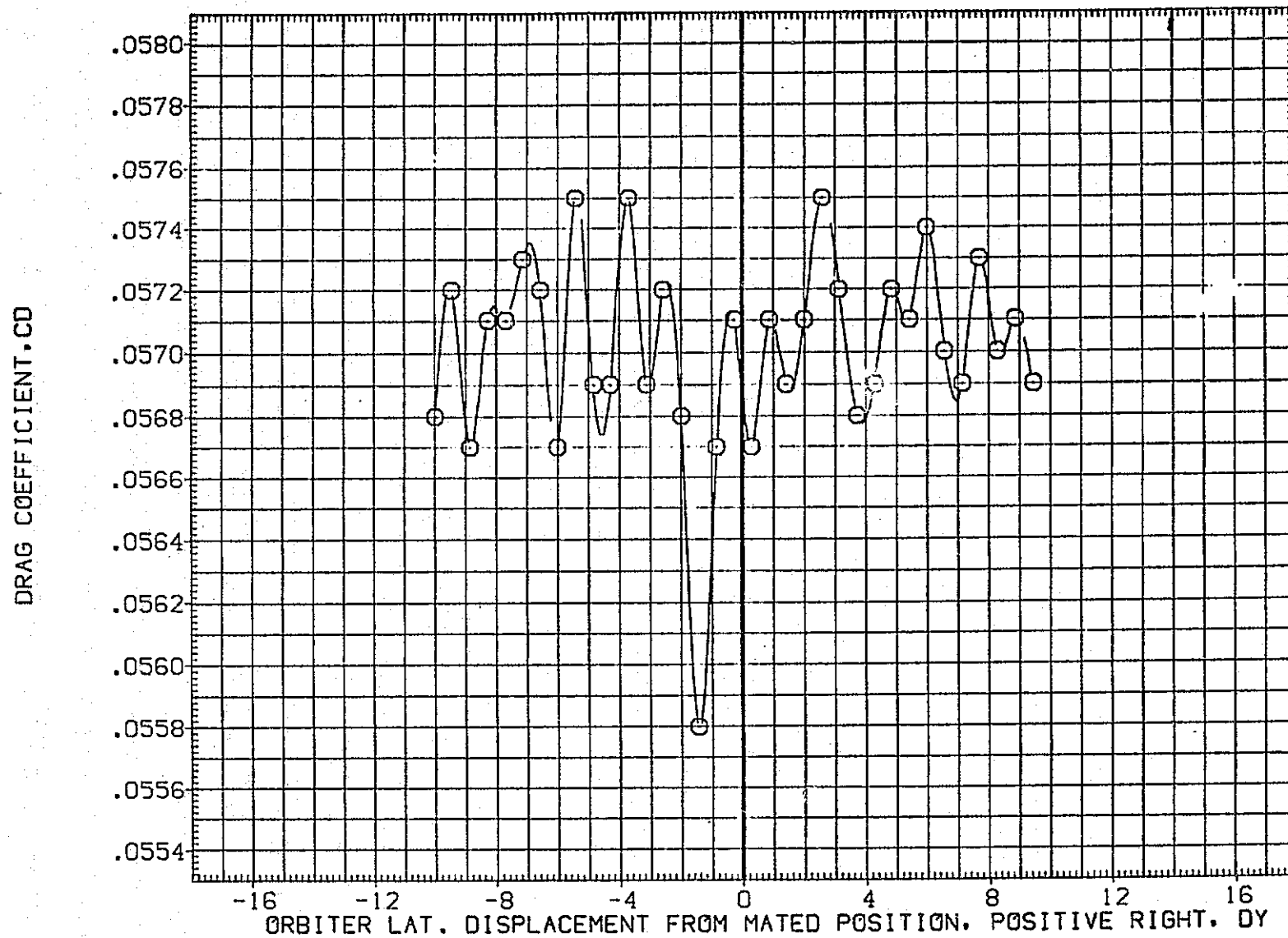


FIG.165 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE061

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE062)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION												
		ALPHAC	BETAC	ELEVON	DY	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	IN.	IN.	IN.	IN.	IN.
○	.608	2.000	5.000	.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125						
		BOFLAP	.000	10RB	6.000													
		BETA0	.000	RUDDER	.000													

NORMAL FORCE COEFFICIENT, CN

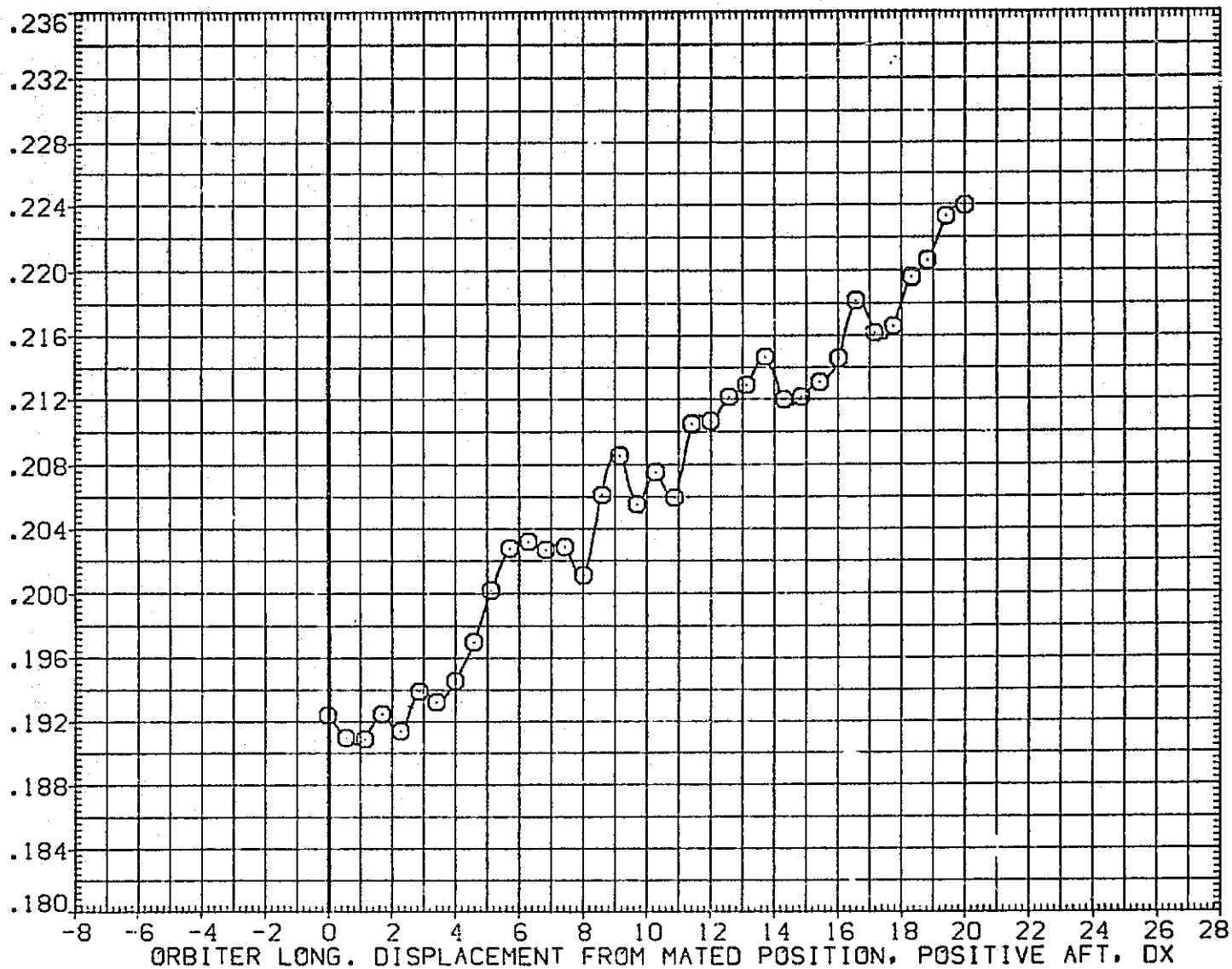


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, 10RB=6, BETAC=0, BETA0=0, RFE062

SYMBOL	MACH	PARAMETRIC VALUES			
○	.808	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDPLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

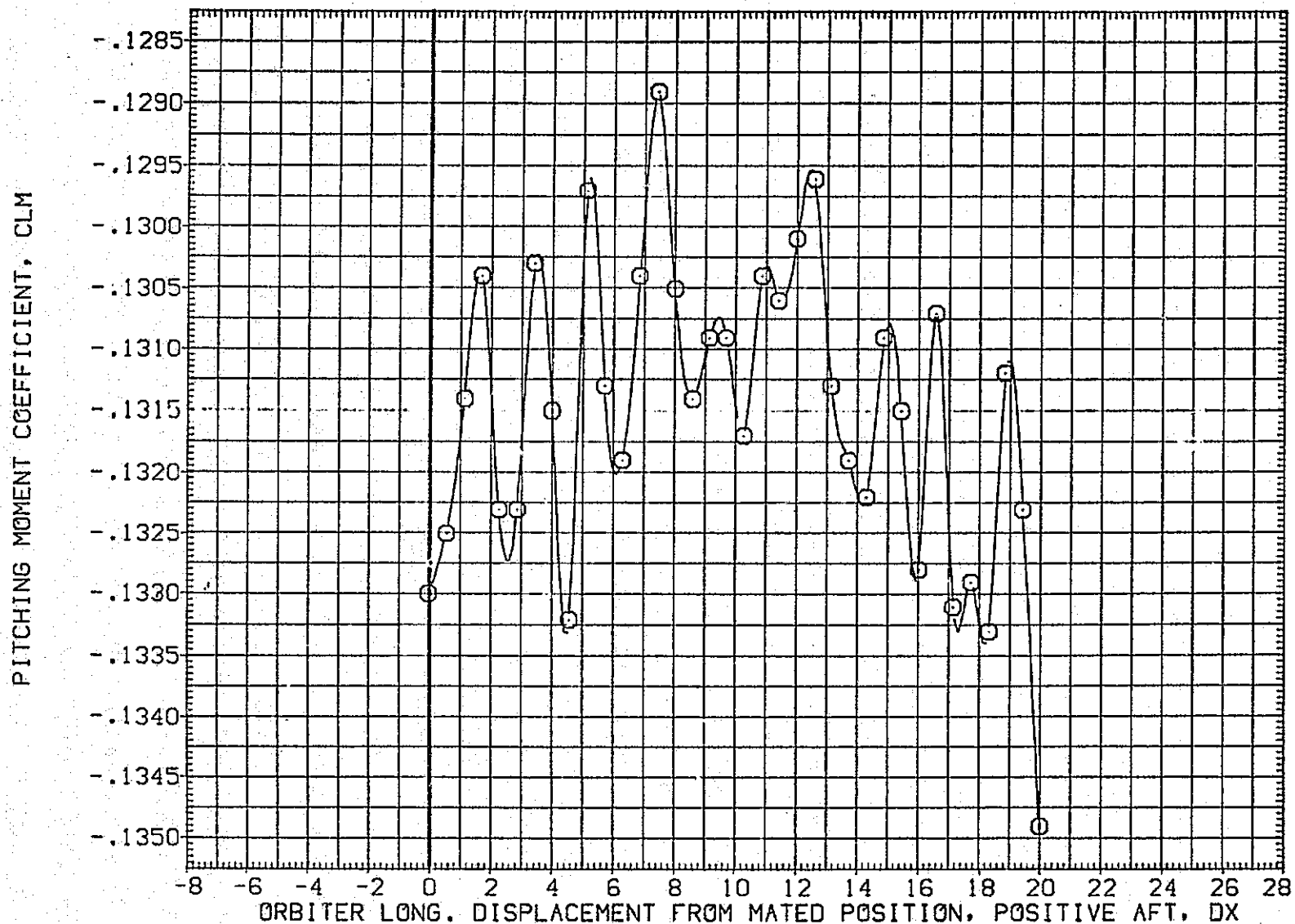


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE062)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.608	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

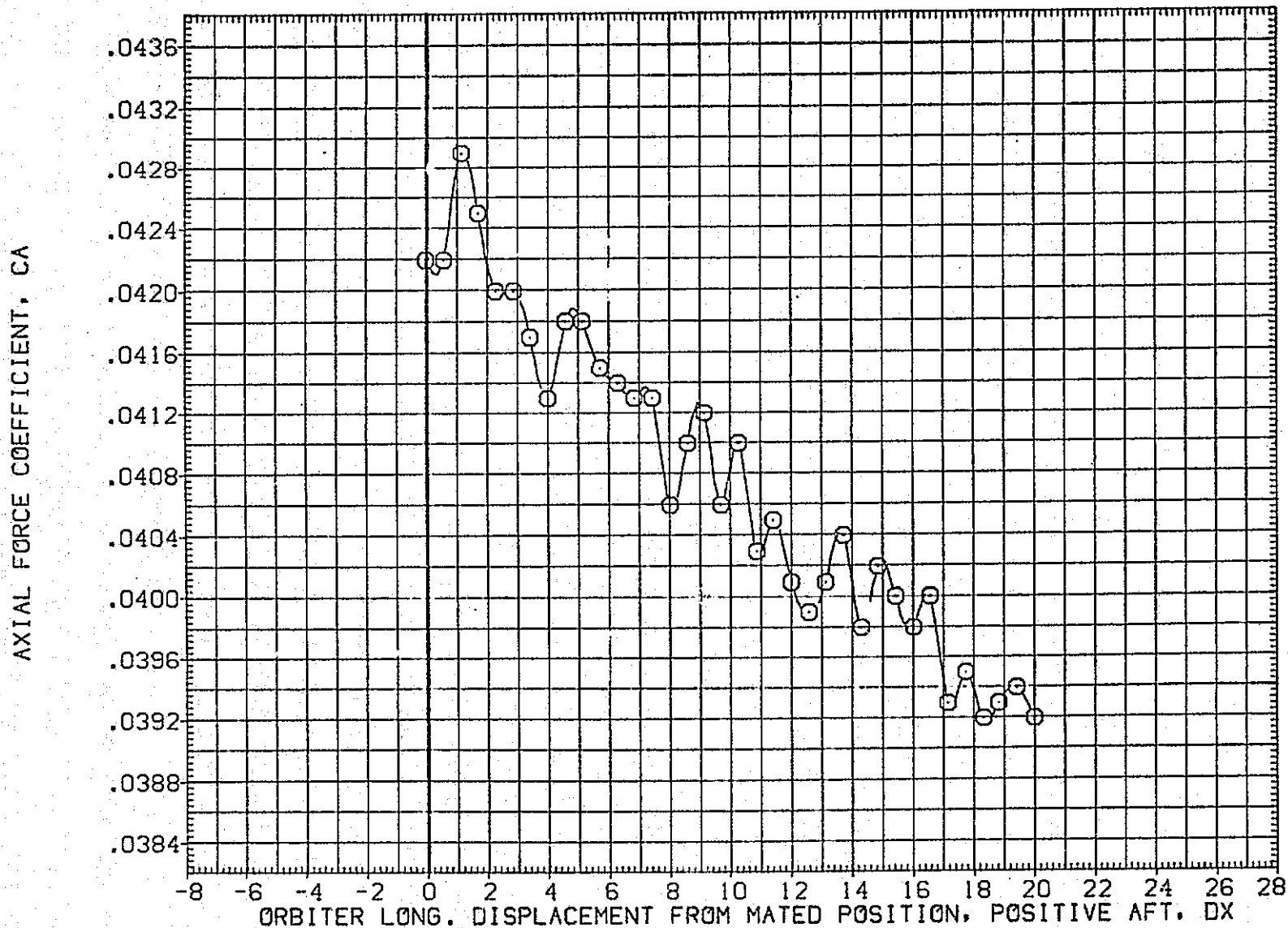


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

SYMBOL	MACH	PARAMETRIC VALUES			
○	.608	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BOFLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

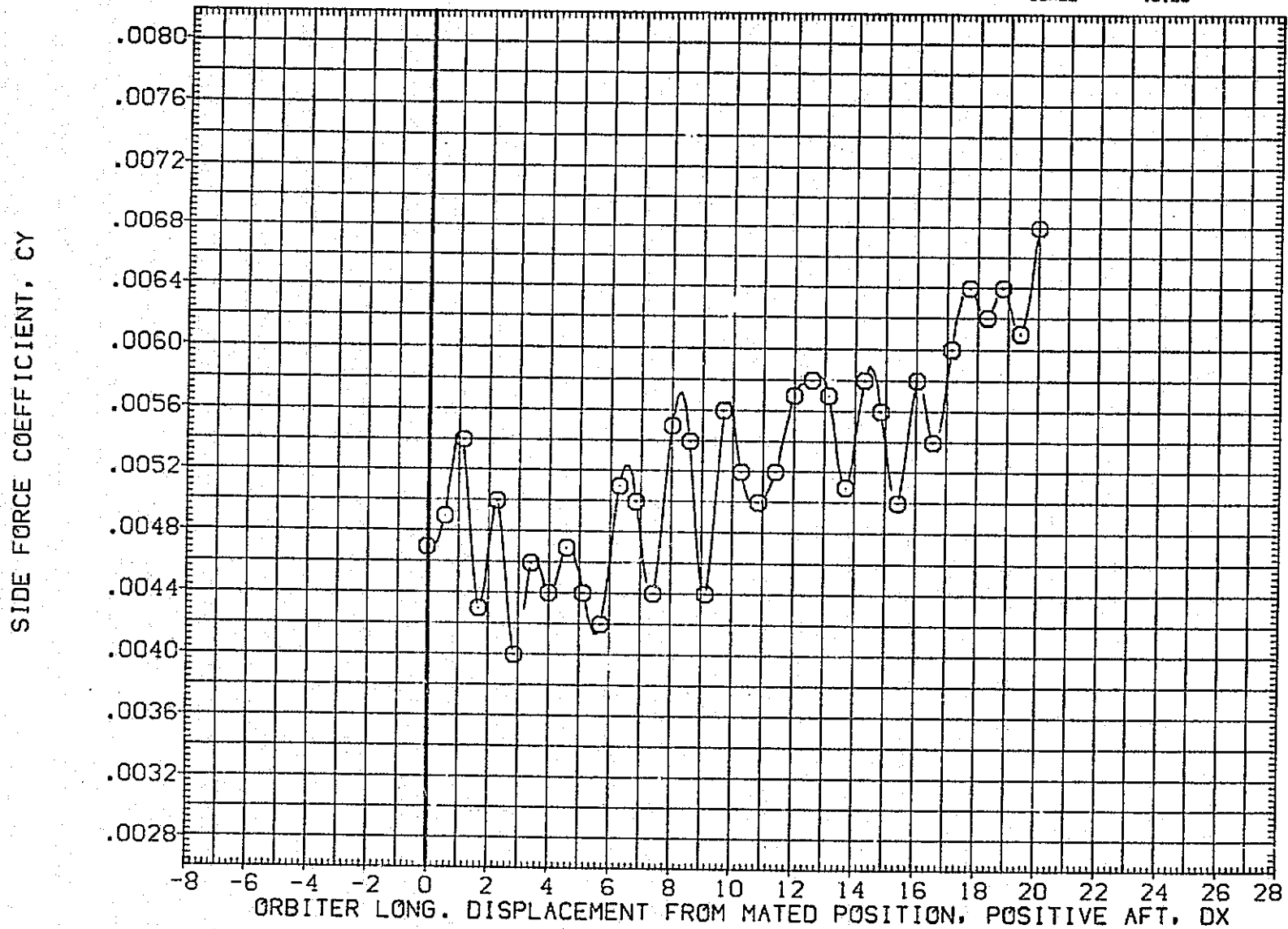


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE062)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.608	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.8000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

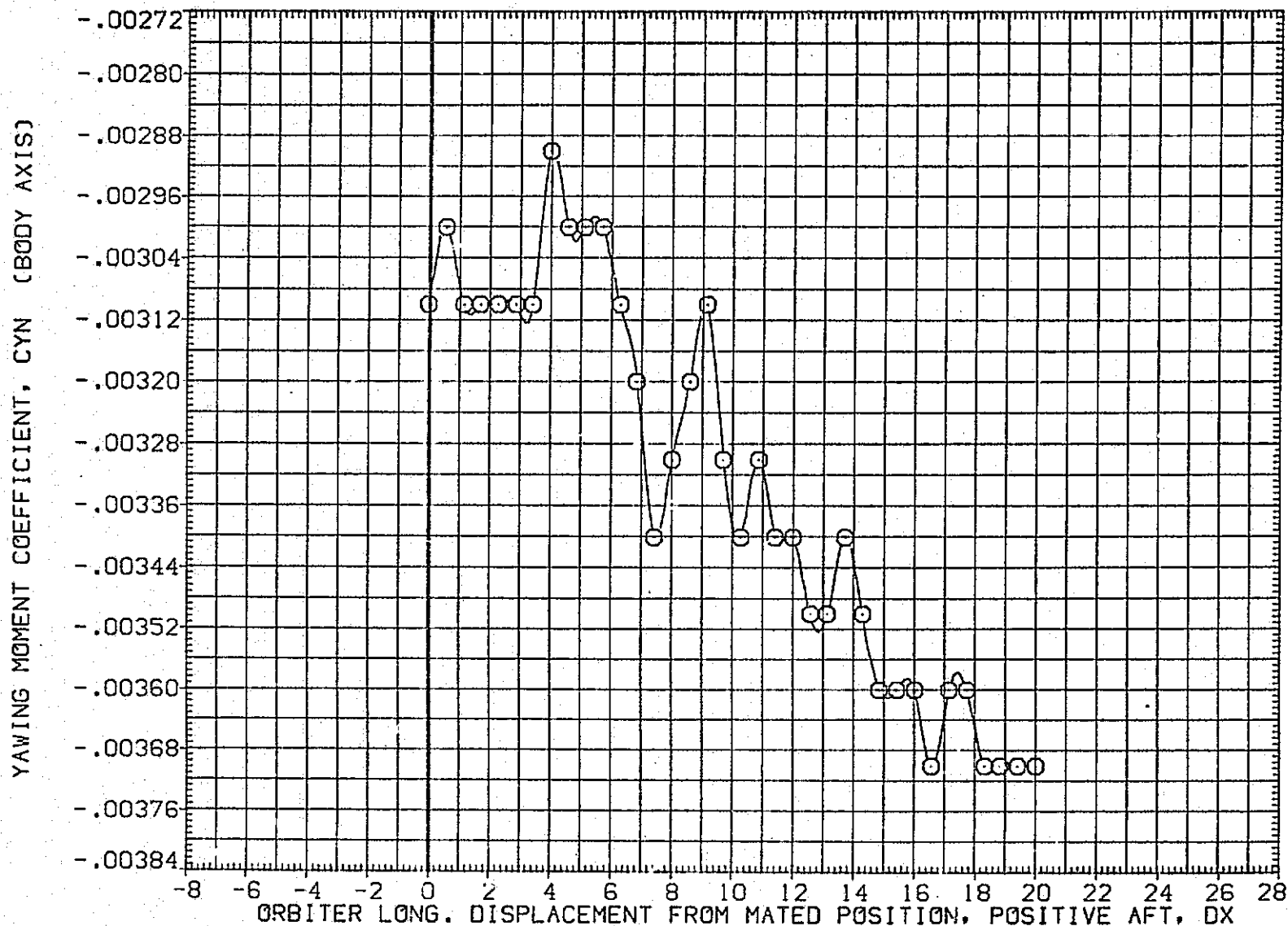


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

SYMBOL	MACH	PARAMETRIC VALUES					
○	.608	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	ELEVON	5.000		
		BDFLAP	.000	DY	.000		
		DZ	.000	IORB	6.000		
		BETA0	.000	RUDDER	.000		

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

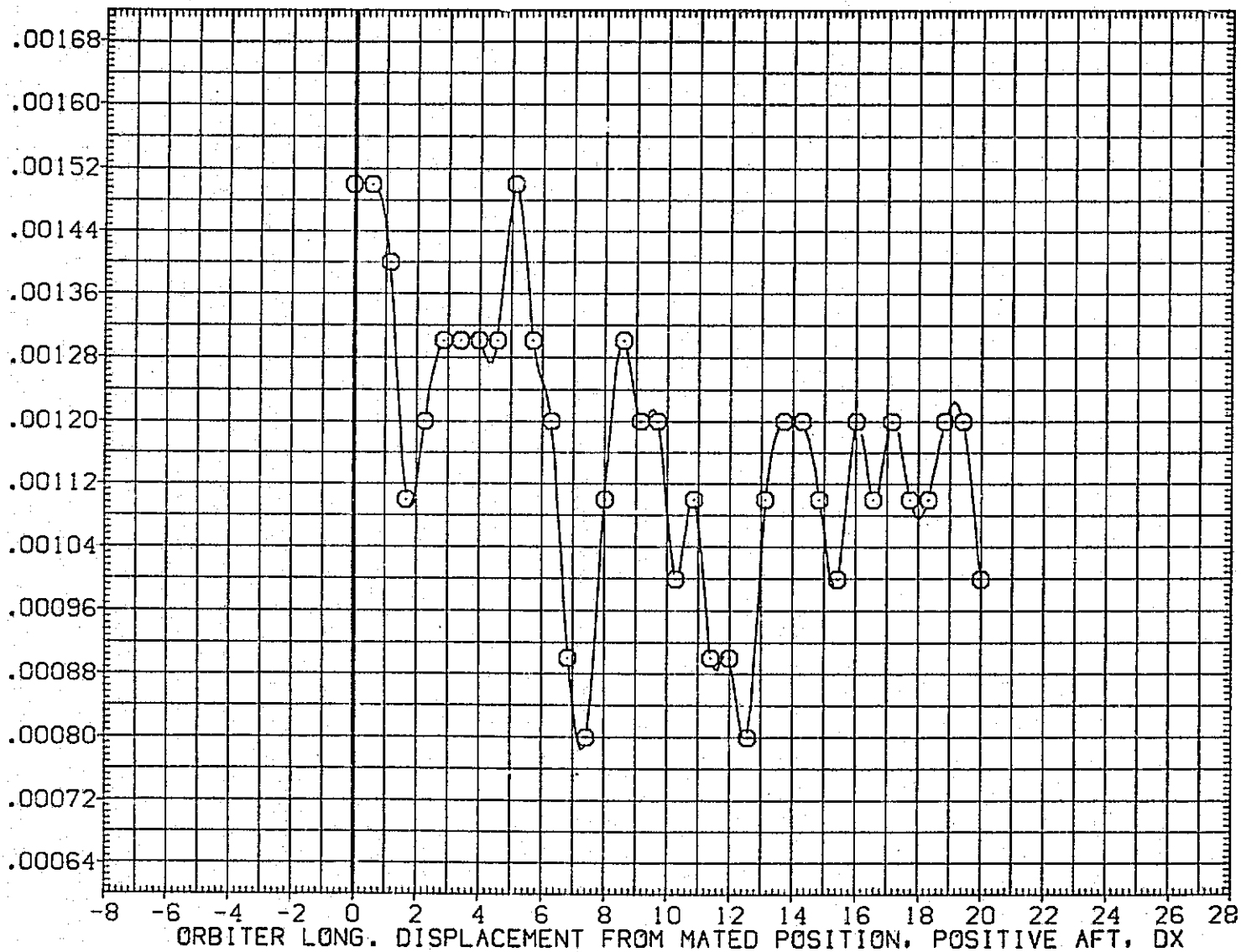


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE062)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.608	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DY	.000
	DZ	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

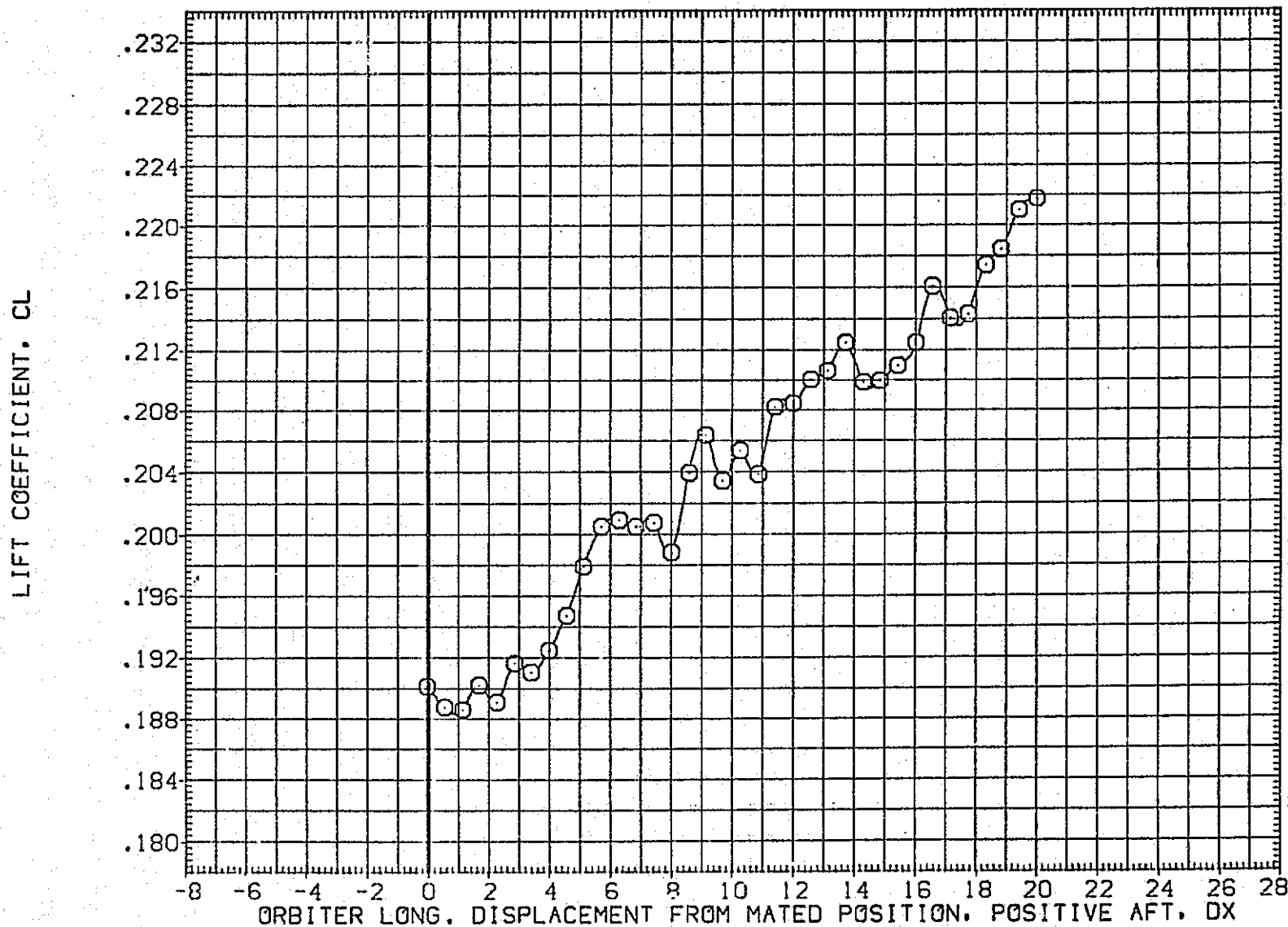


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

SYMBOL	MACH	PARAMETRIC VALUES			
○	.608	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		OZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

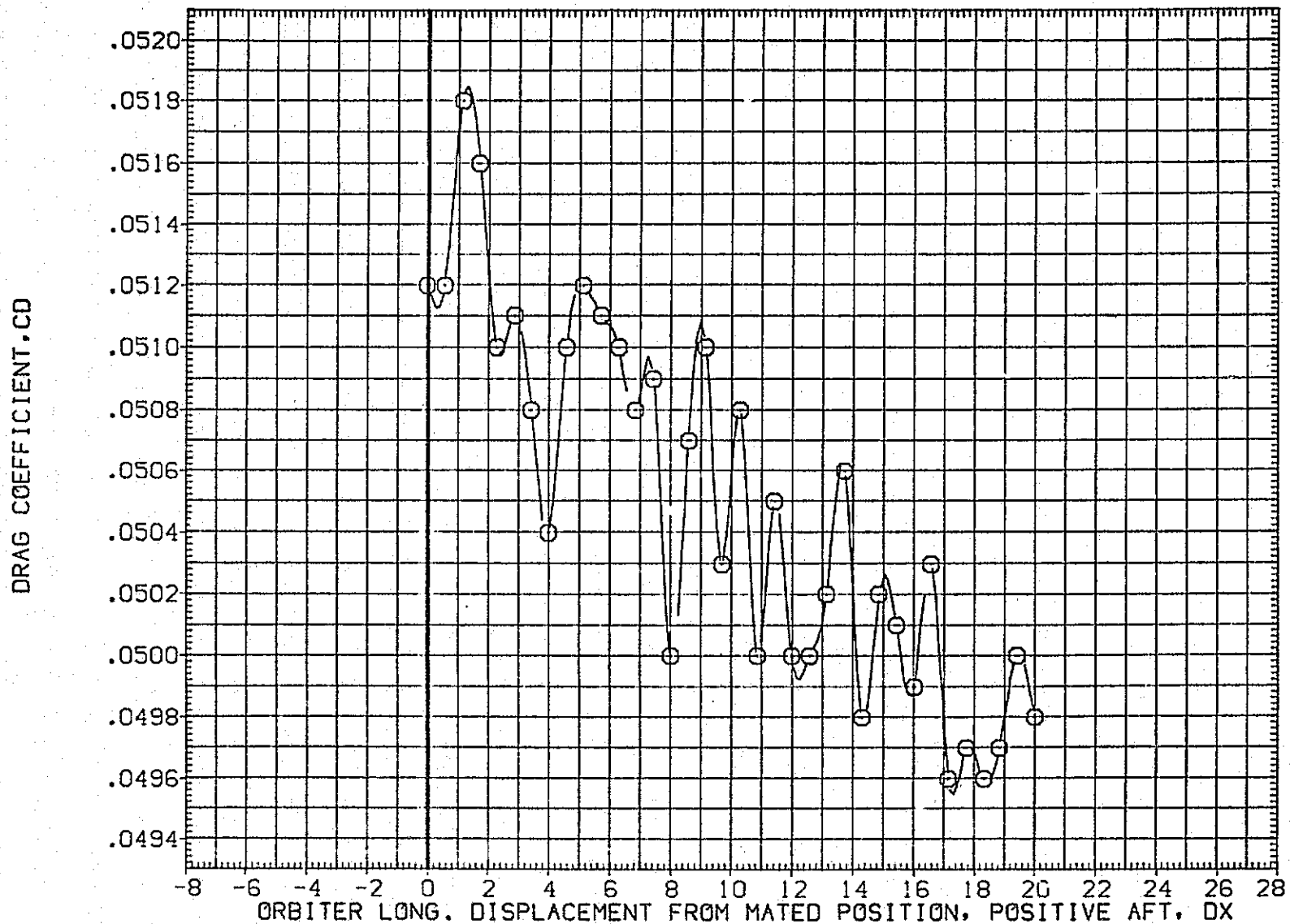


FIG.166 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE062

SYMBOL
○

MACH	PARAMETRIC VALUES			
.609	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DY	.000
	DZ	15.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

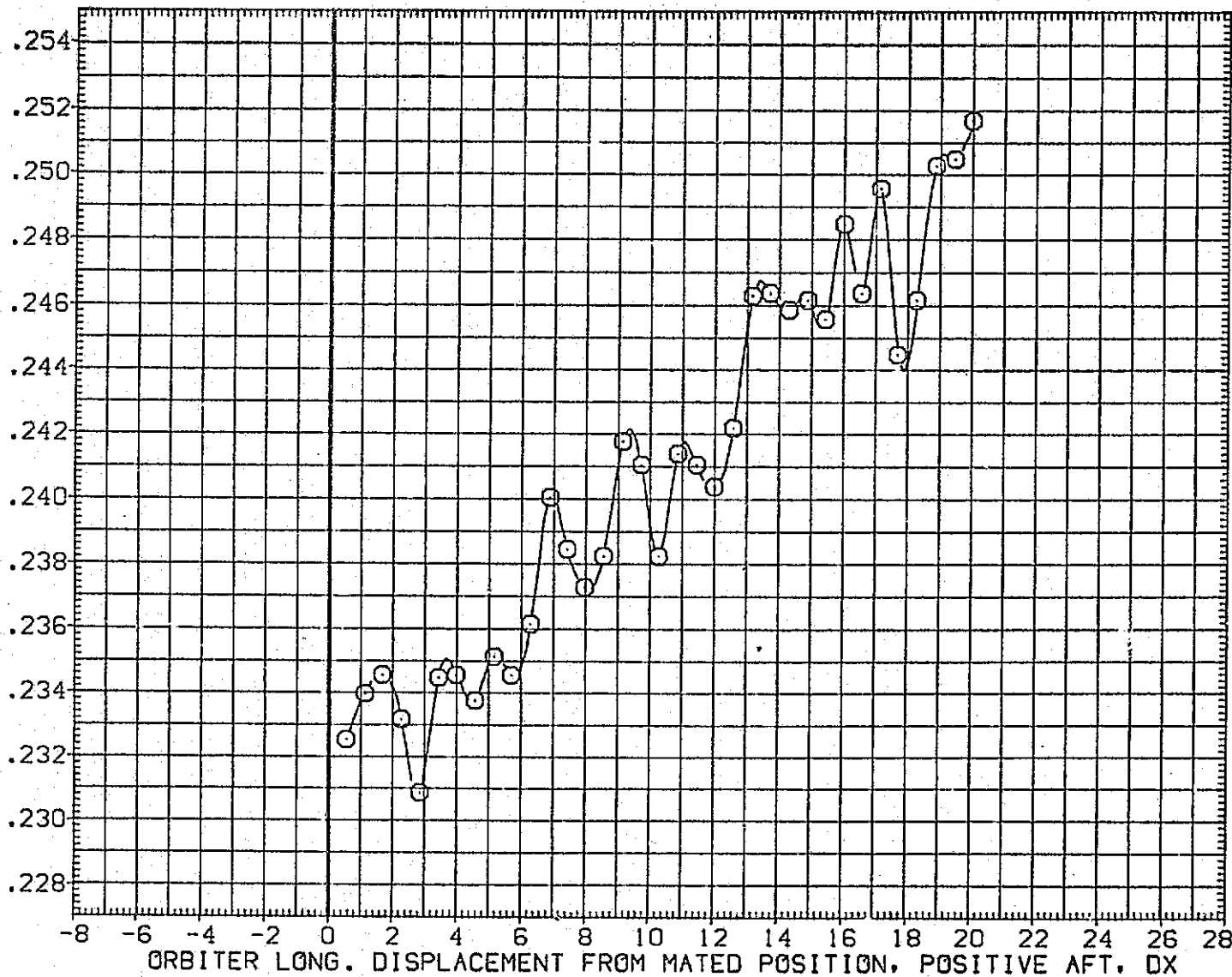


FIG.167 CARRIER DATA, URB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

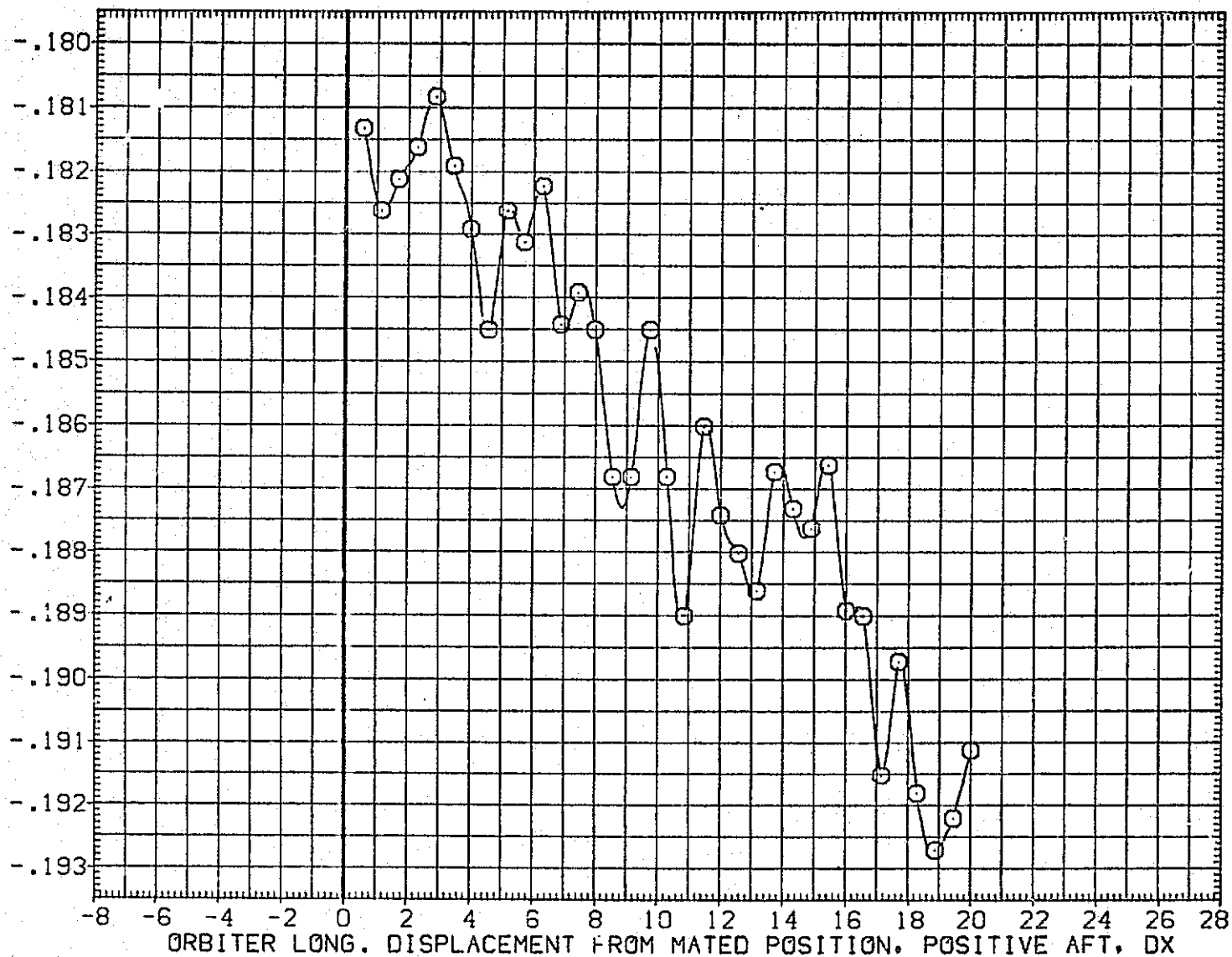


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE063)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

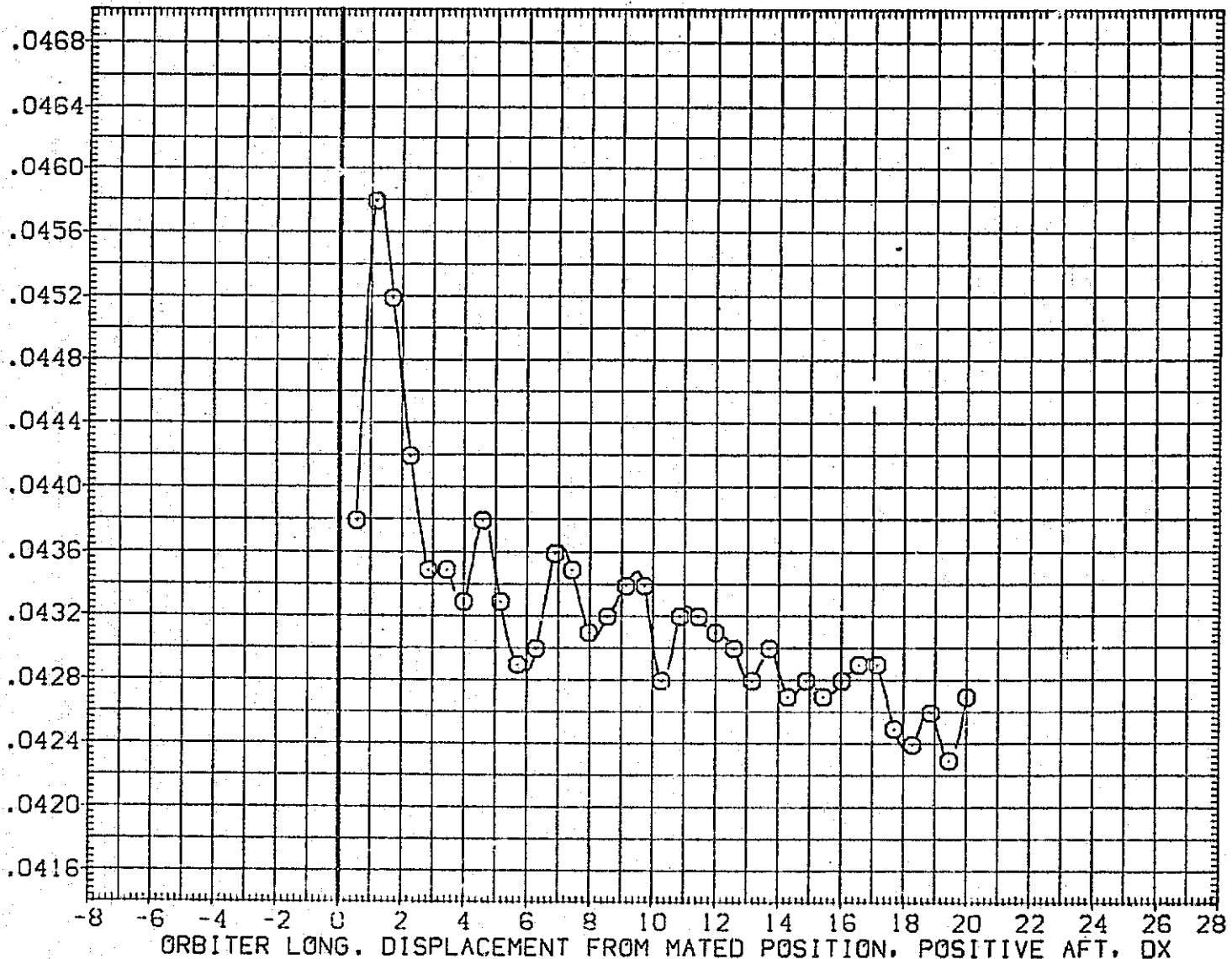


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SO.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		OZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

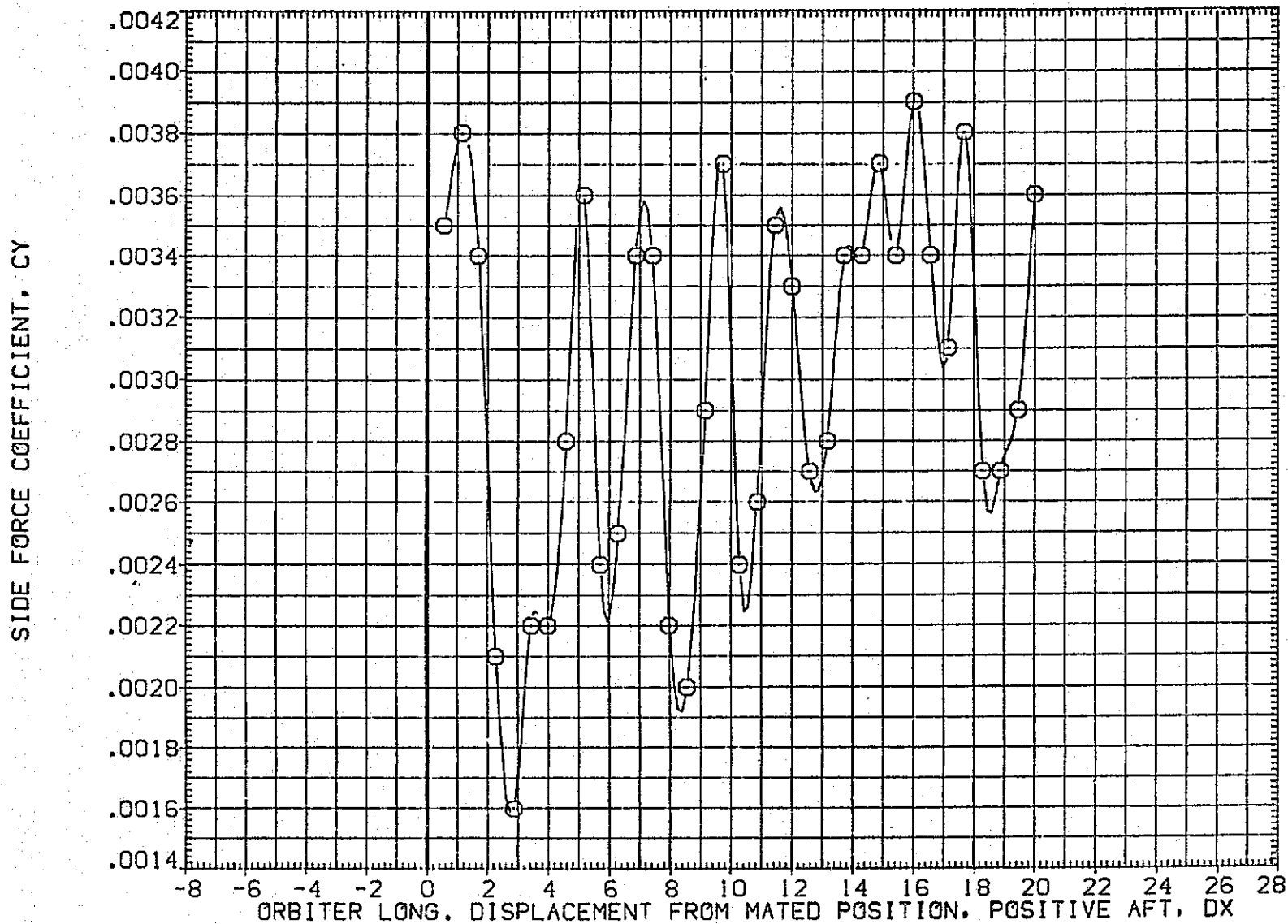


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE063)

SYMBOL	MACH	PARAMETRIC VALUES					
○	.609	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	ELEVON	5.000		
		BDFLAP	.000	DY	.000		
		OZ	15.000	IORB	6.000		
		BETA0	.000	RUDDER	.000		

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2349.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

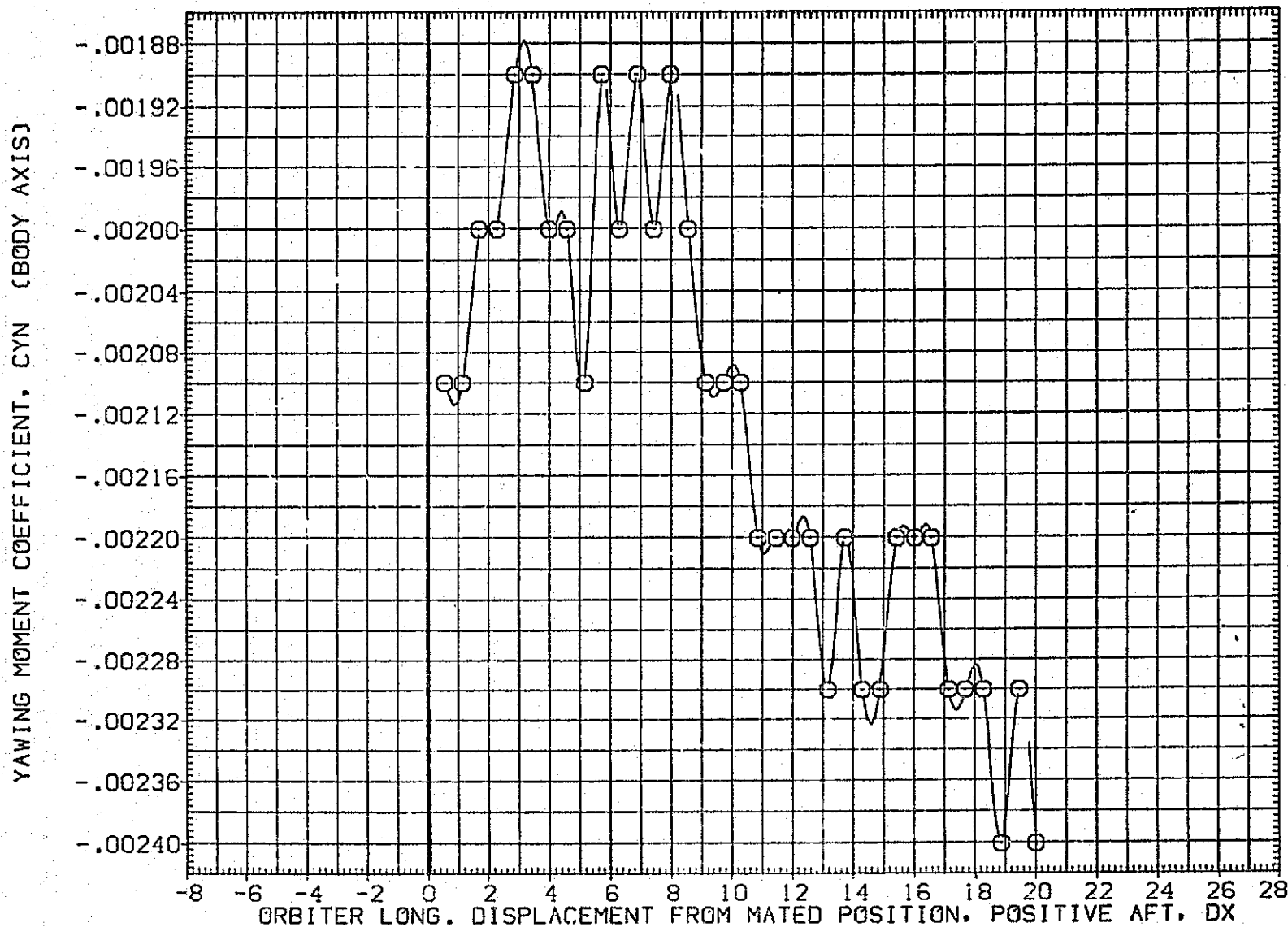


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

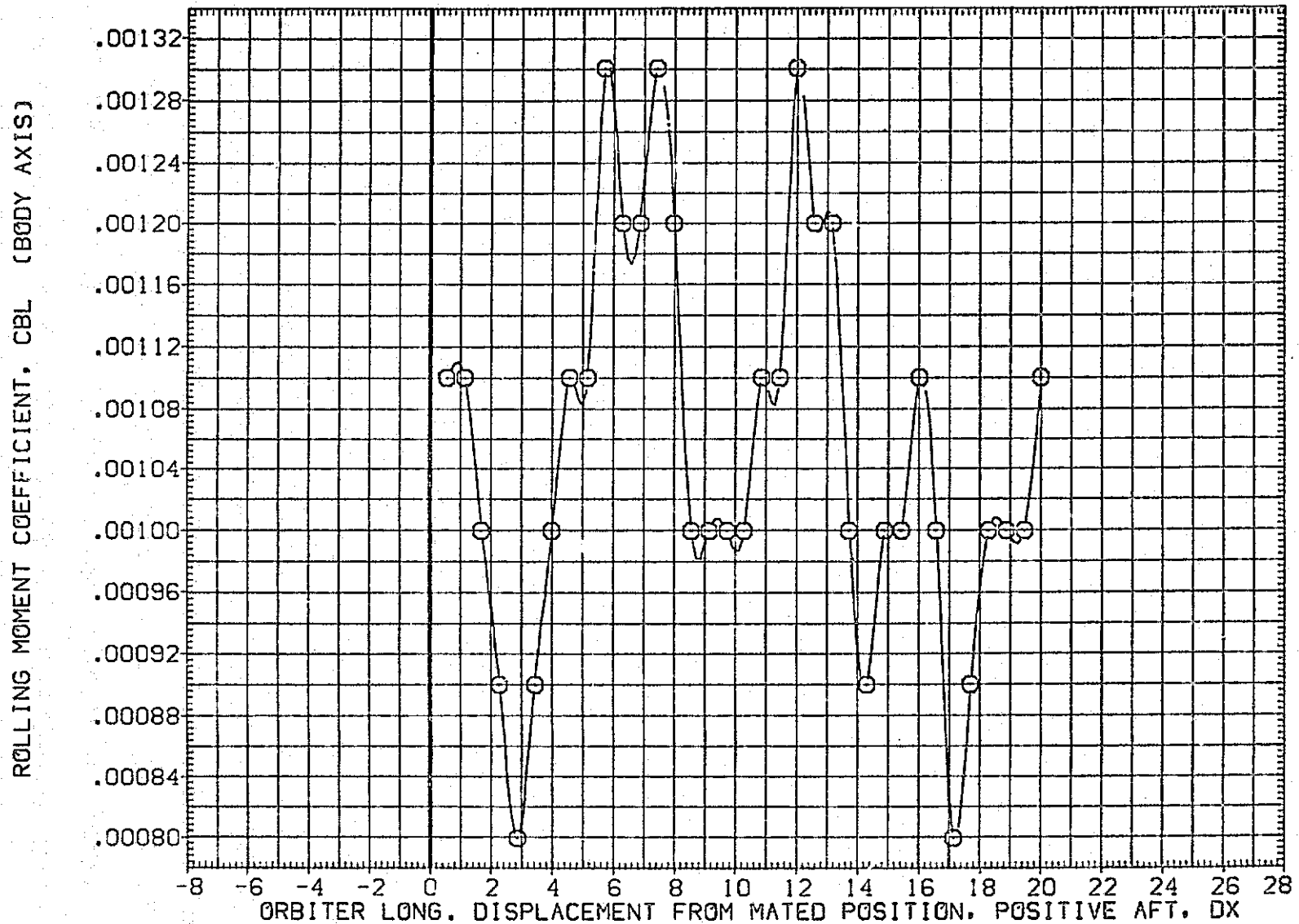


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE063)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

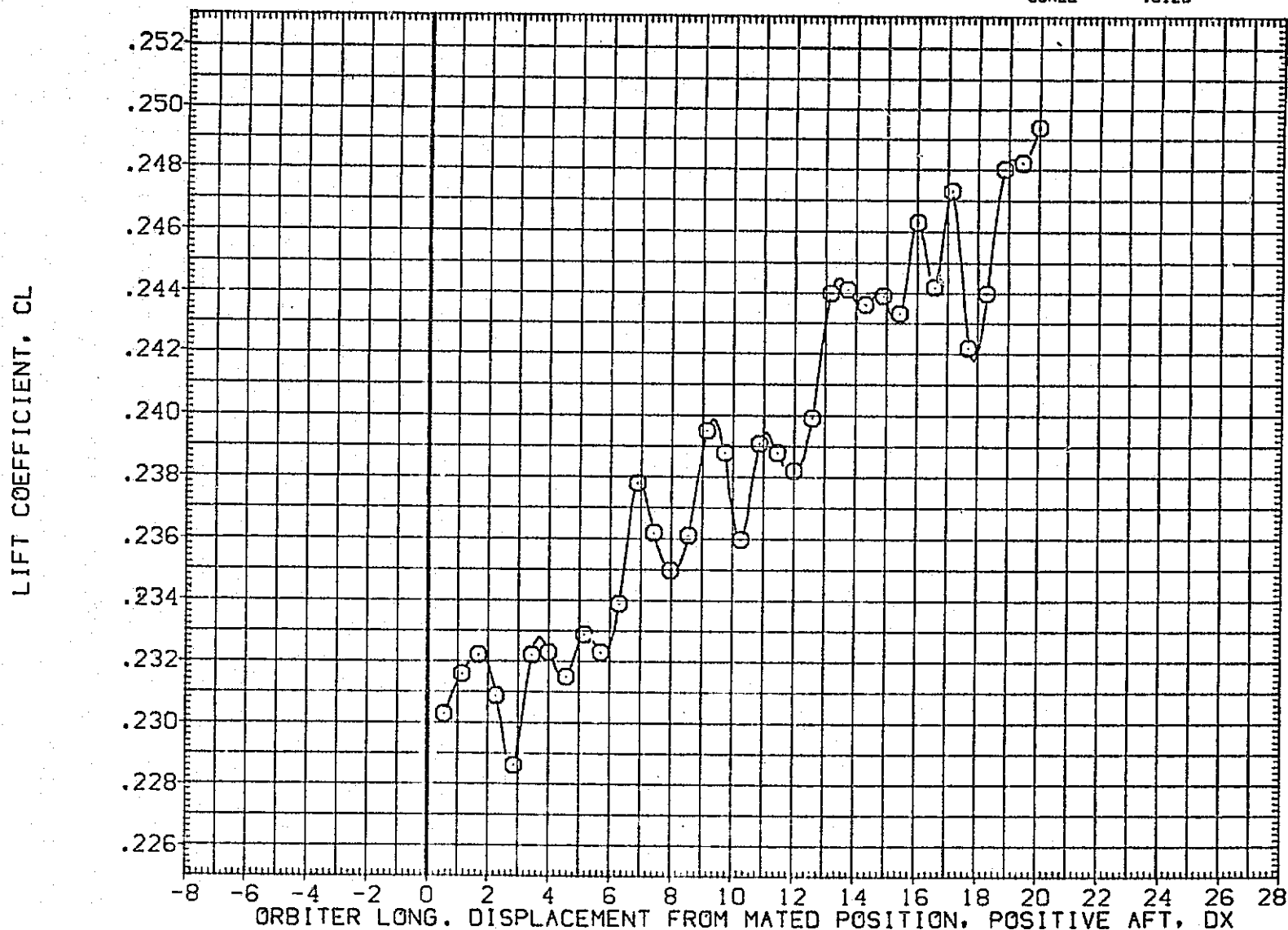


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	GY	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

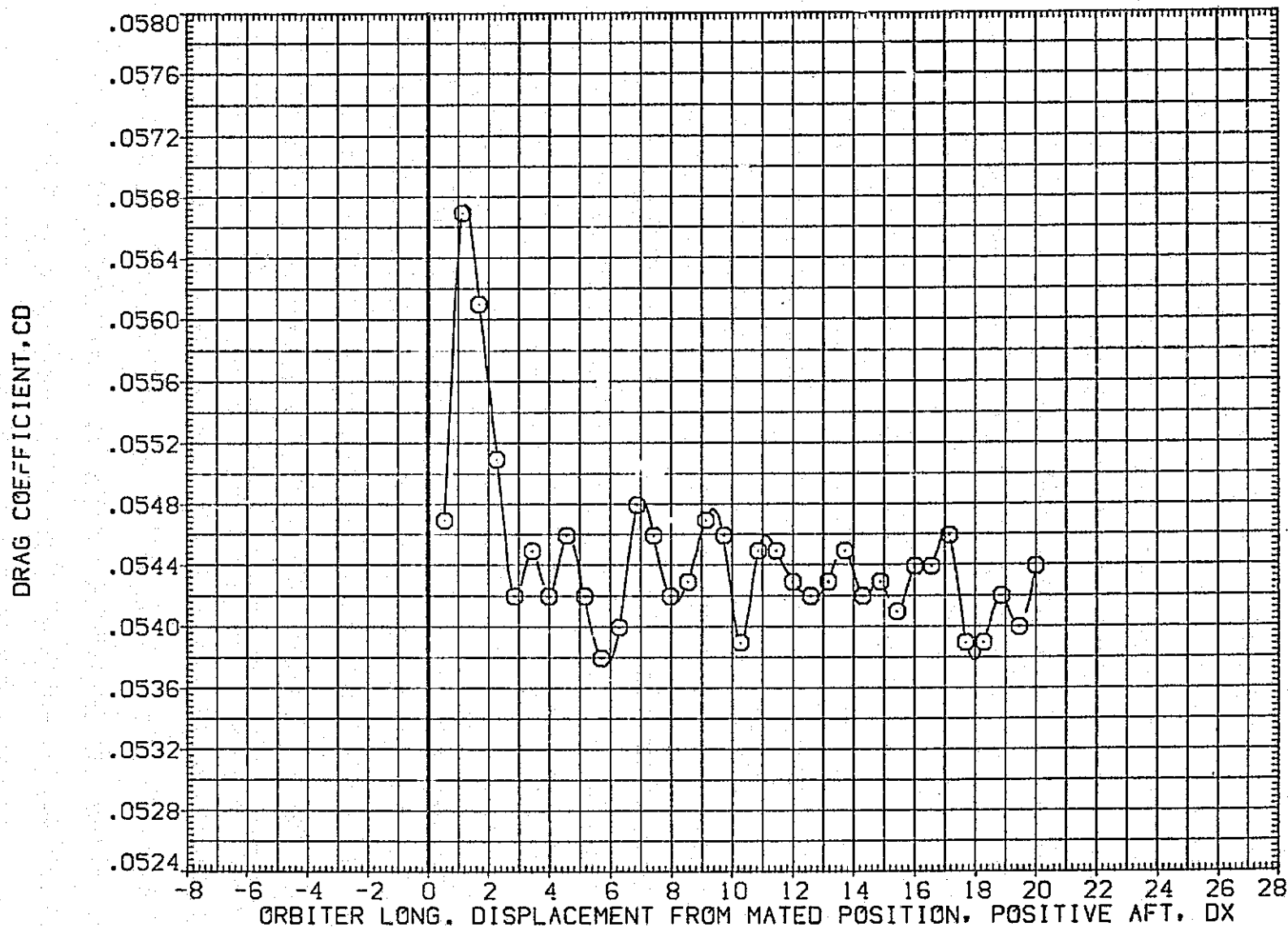


FIG.167 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE063

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE064)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.611	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

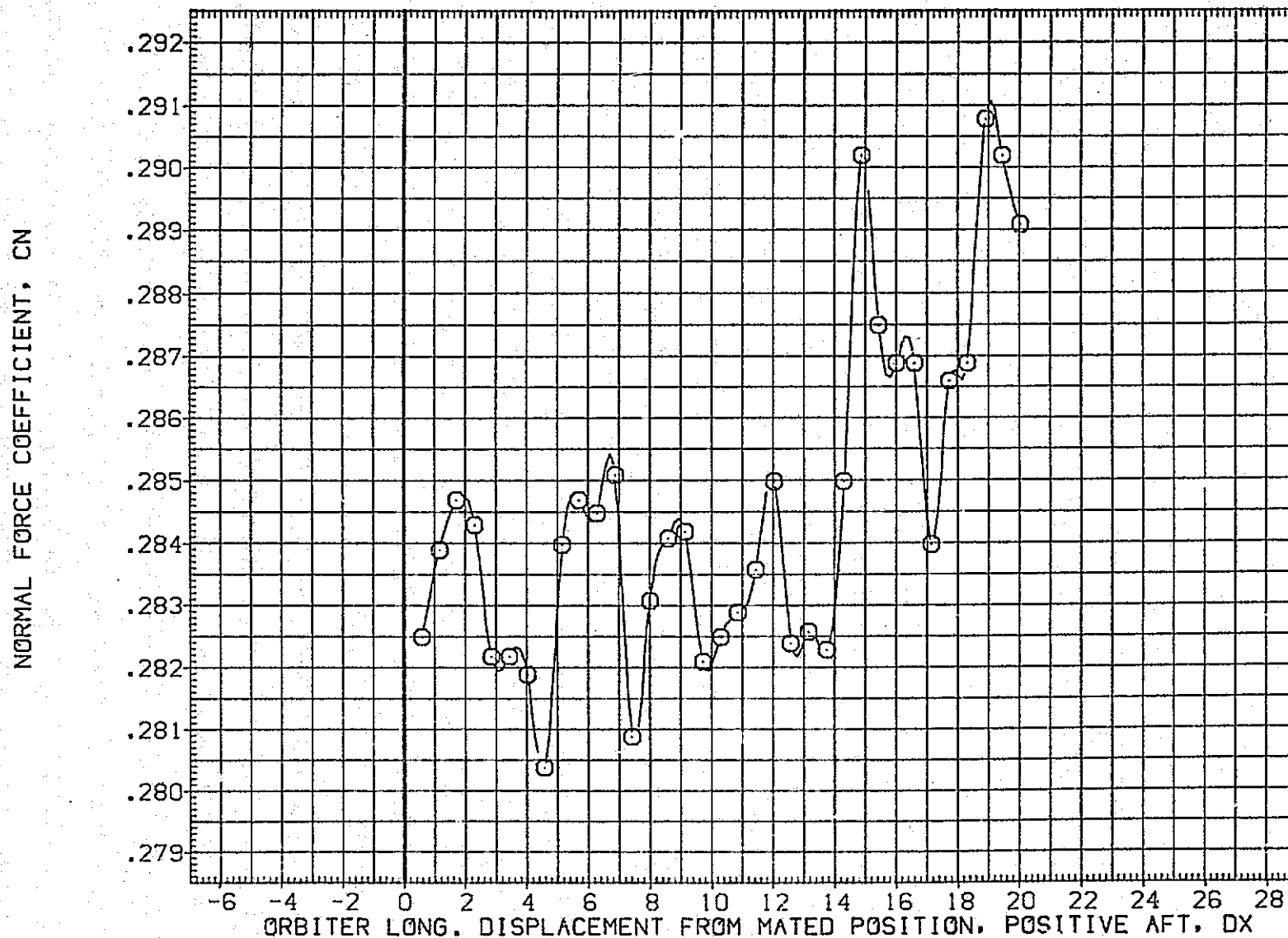


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

SYMBOL	MACH	PARAMETRIC VALUES			
○	.611	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

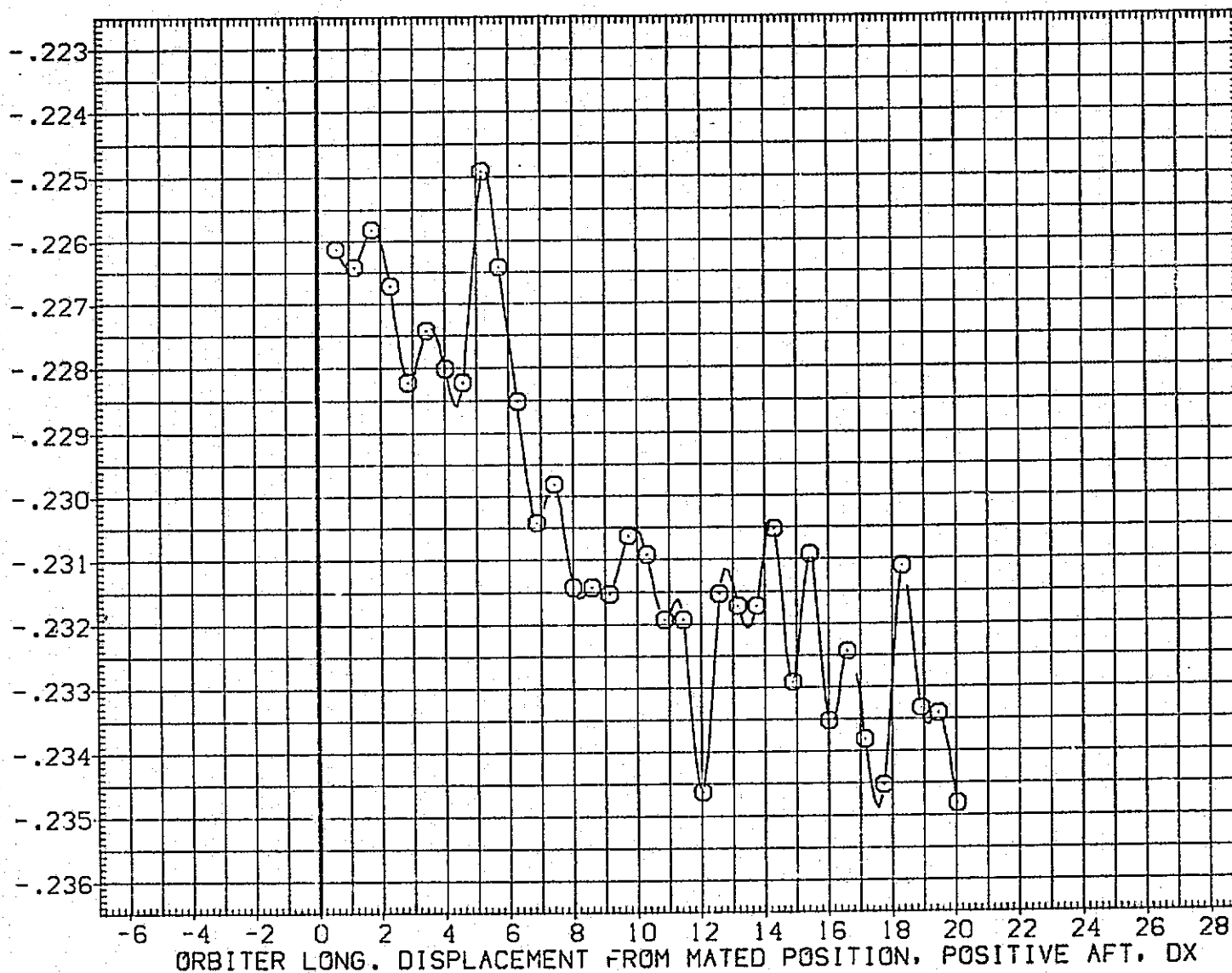


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE064)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.611	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

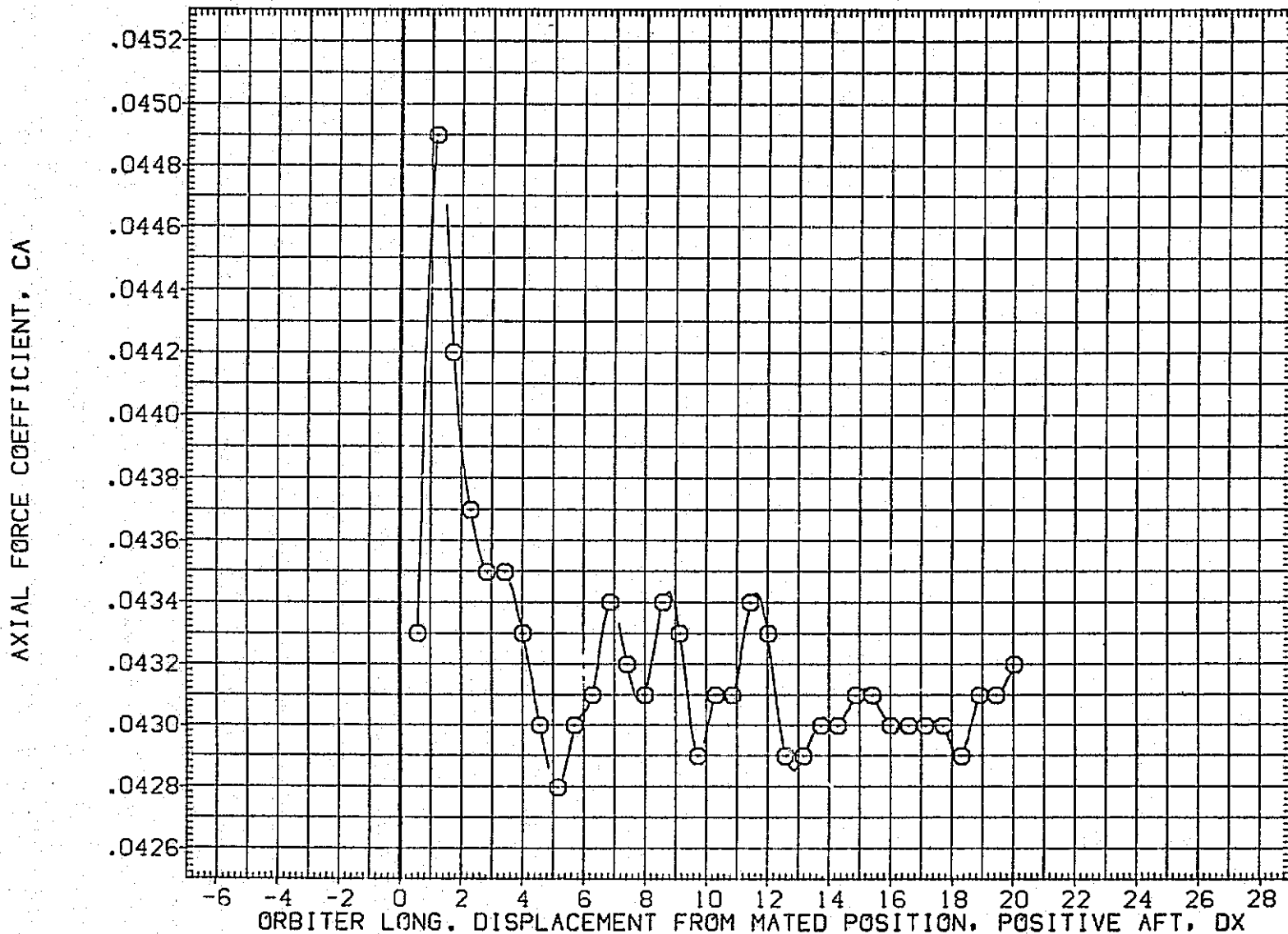


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

SYMBOL	MACH	PARAMETRIC VALUES			
○	.511	ALPHAC	2.000	BETAC	.030
		STAB	5.000	ELEVON	5.030
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

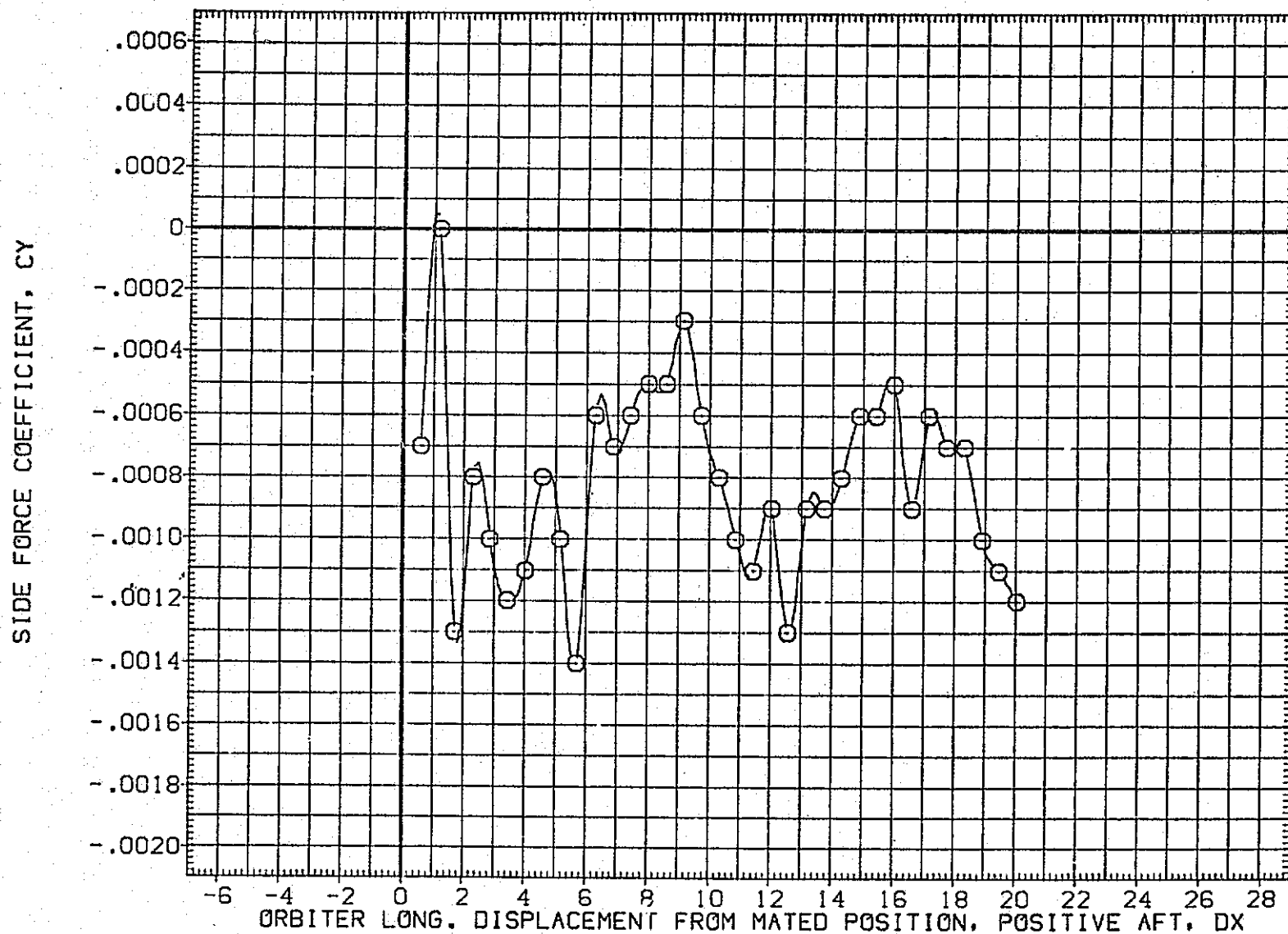


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE064)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.611	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SO.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

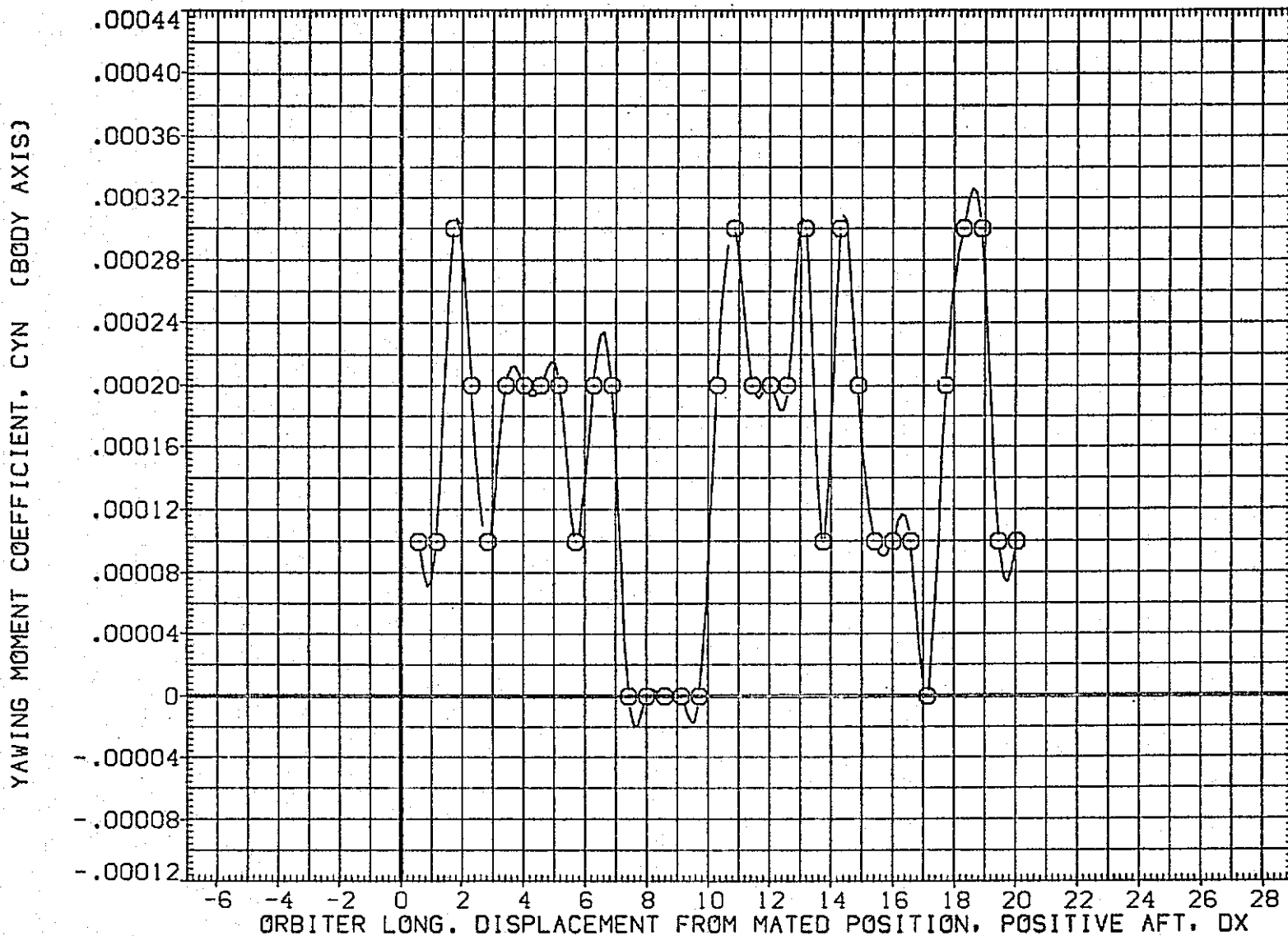


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

SYMBOL	MACH	PARAMETRIC VALUES			
○	.611	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

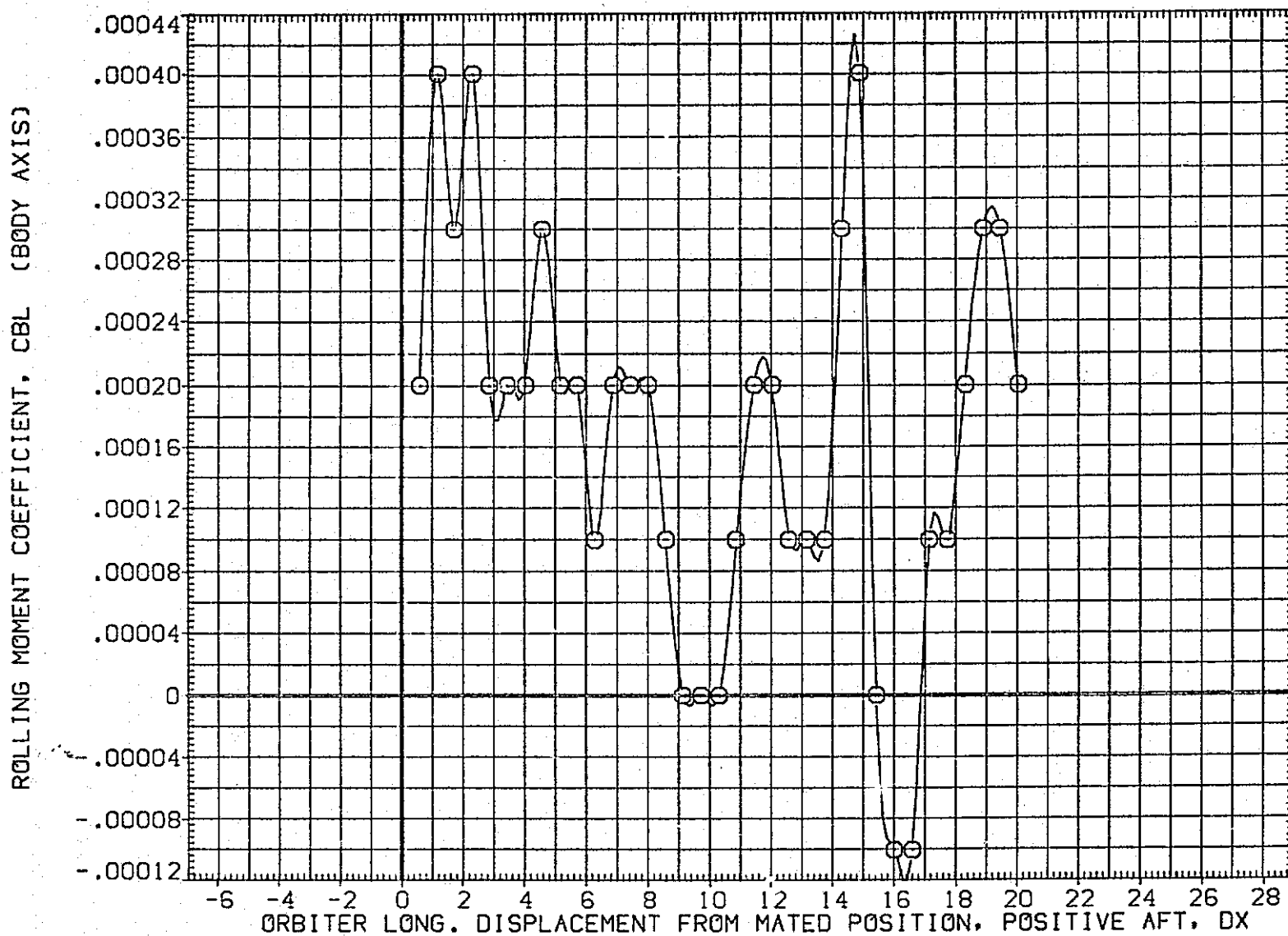


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE064)

SYMBOL

○

MACH	PARAMETRIC VALUES			
.611	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DY	.000
	DZ	60.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

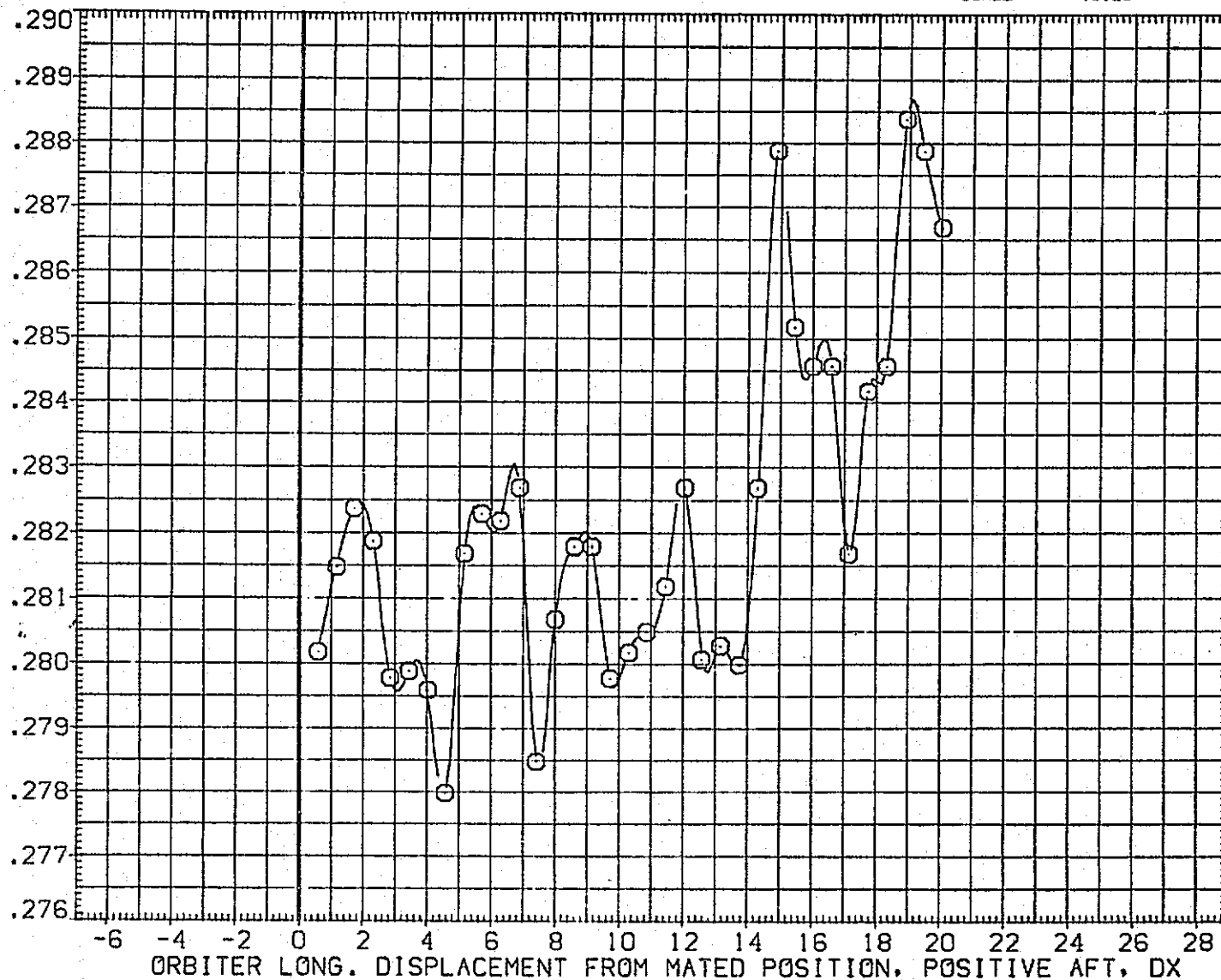


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE064

SYMBOL	MACH	PARAMETRIC VALUES			
○	.811	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BOFLAP	.000	DY	.000
		DZ	60.000	ICRB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

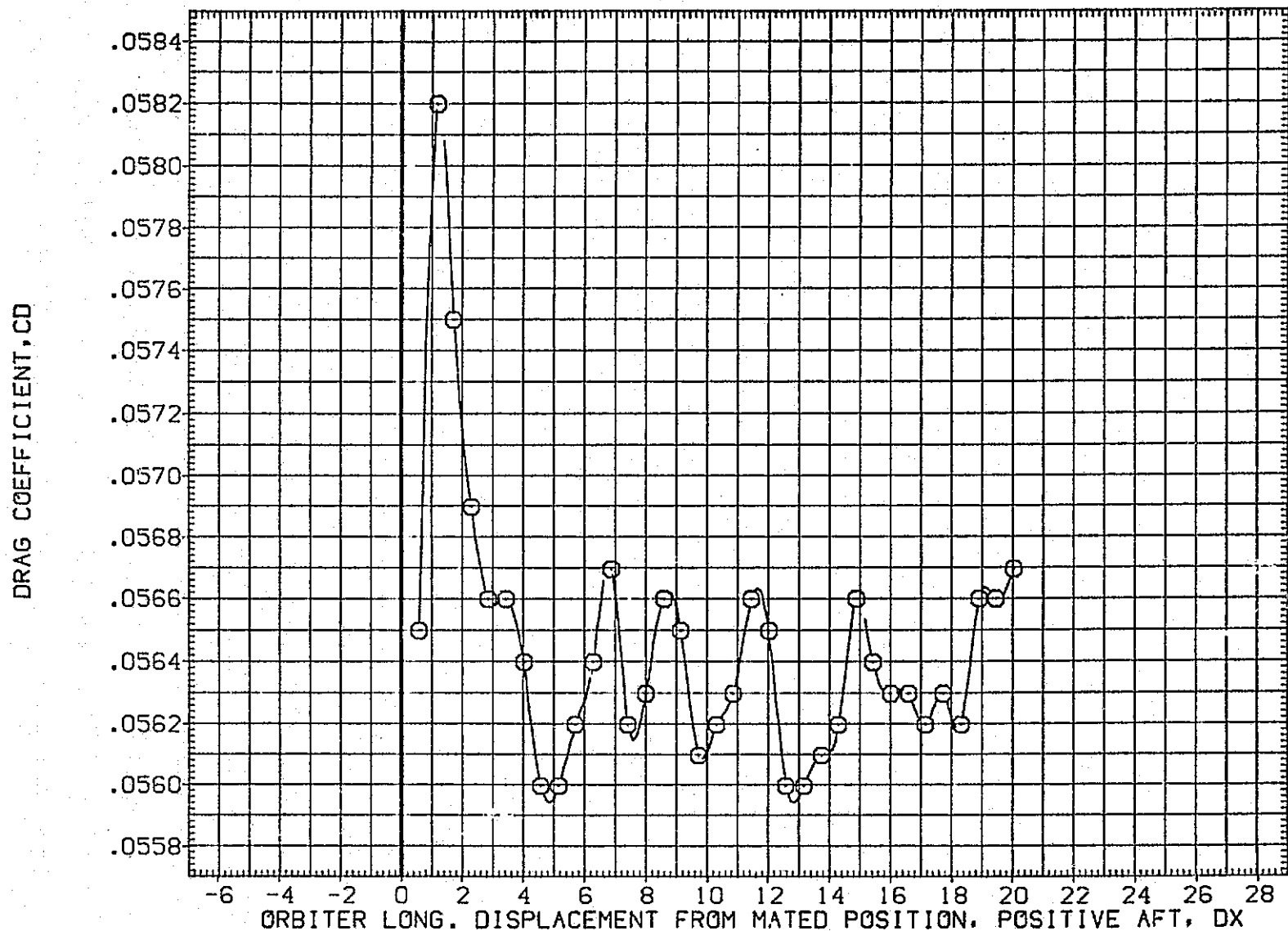


FIG.168 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=0, BETA0=0, RFE064

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE065)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.609	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DY	.000
	DZ	.000	IORB	6.000
	BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

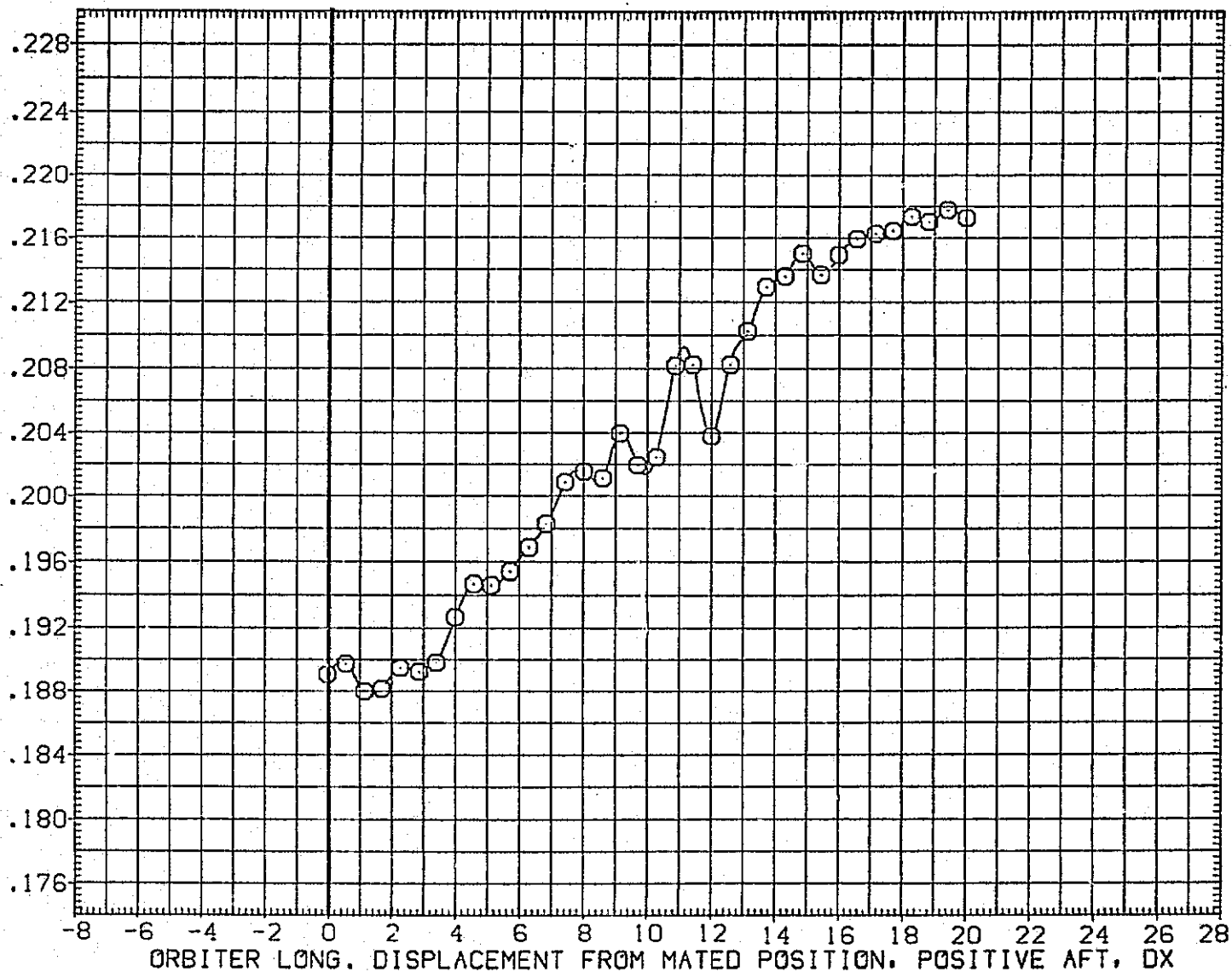


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

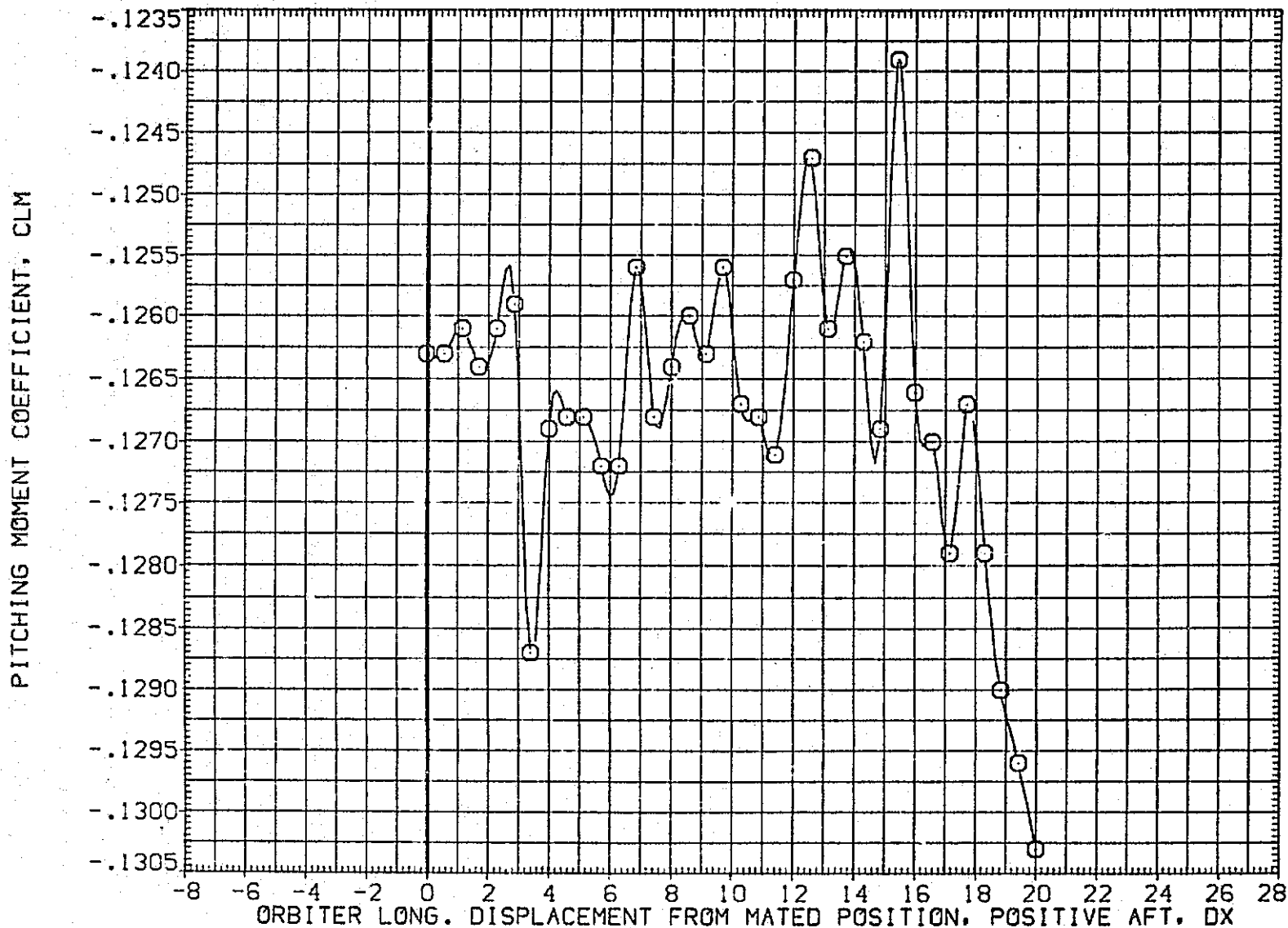


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE065)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	IN.	IN.
○	.609	2.000	.000	5.000	.000	5500.0000	327.7800	50.FT.
		BDFLAP	.000	6.000	.000	2348.0400	1339.9000	IN.
		DZ	.000	RUDDER	.000			IN. XC
		BETA0	5.000					IN. YC
						ZFRP	190.7500	IN. ZC
						SCALE	.0125	

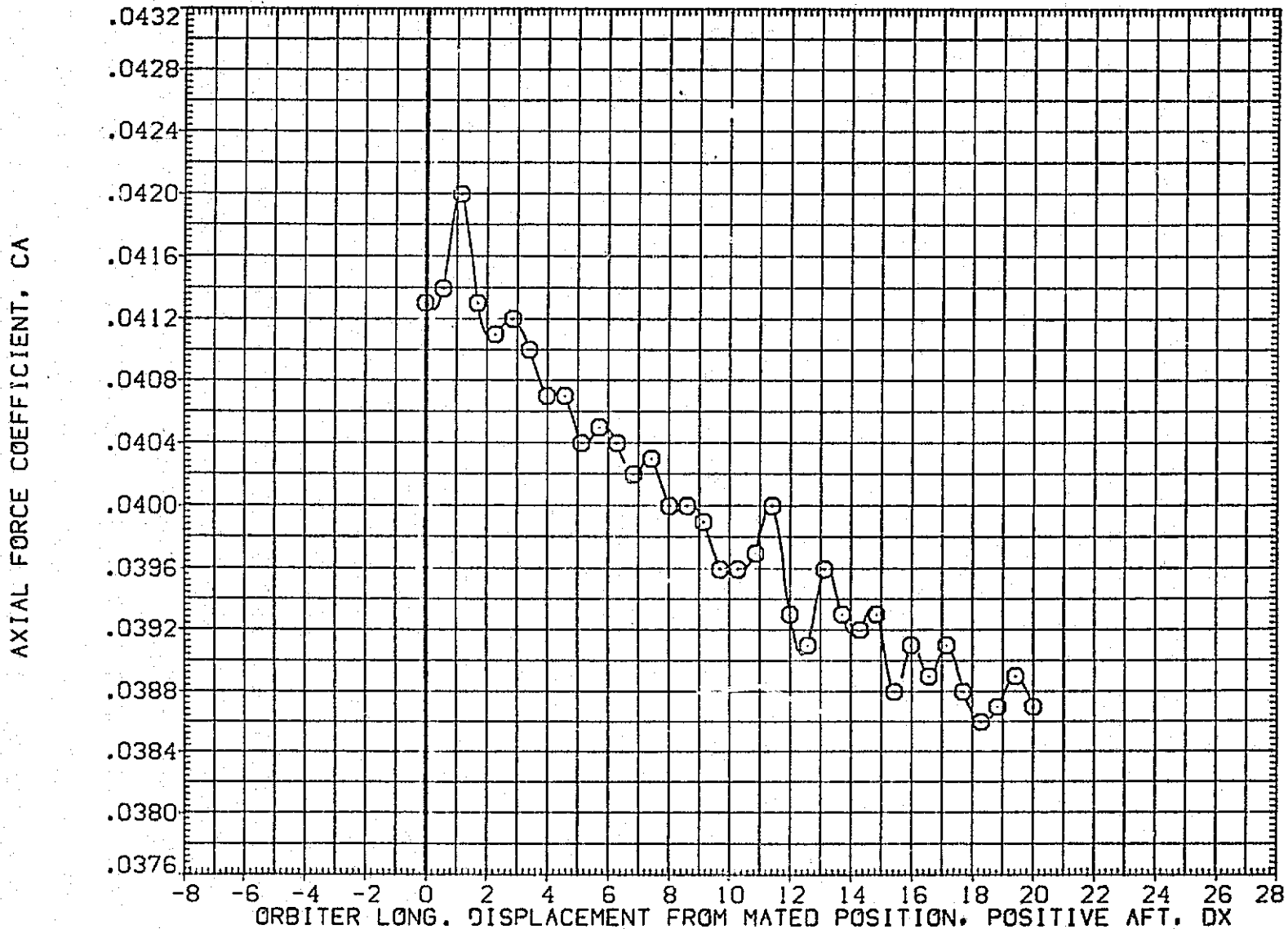


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BOFLAP	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

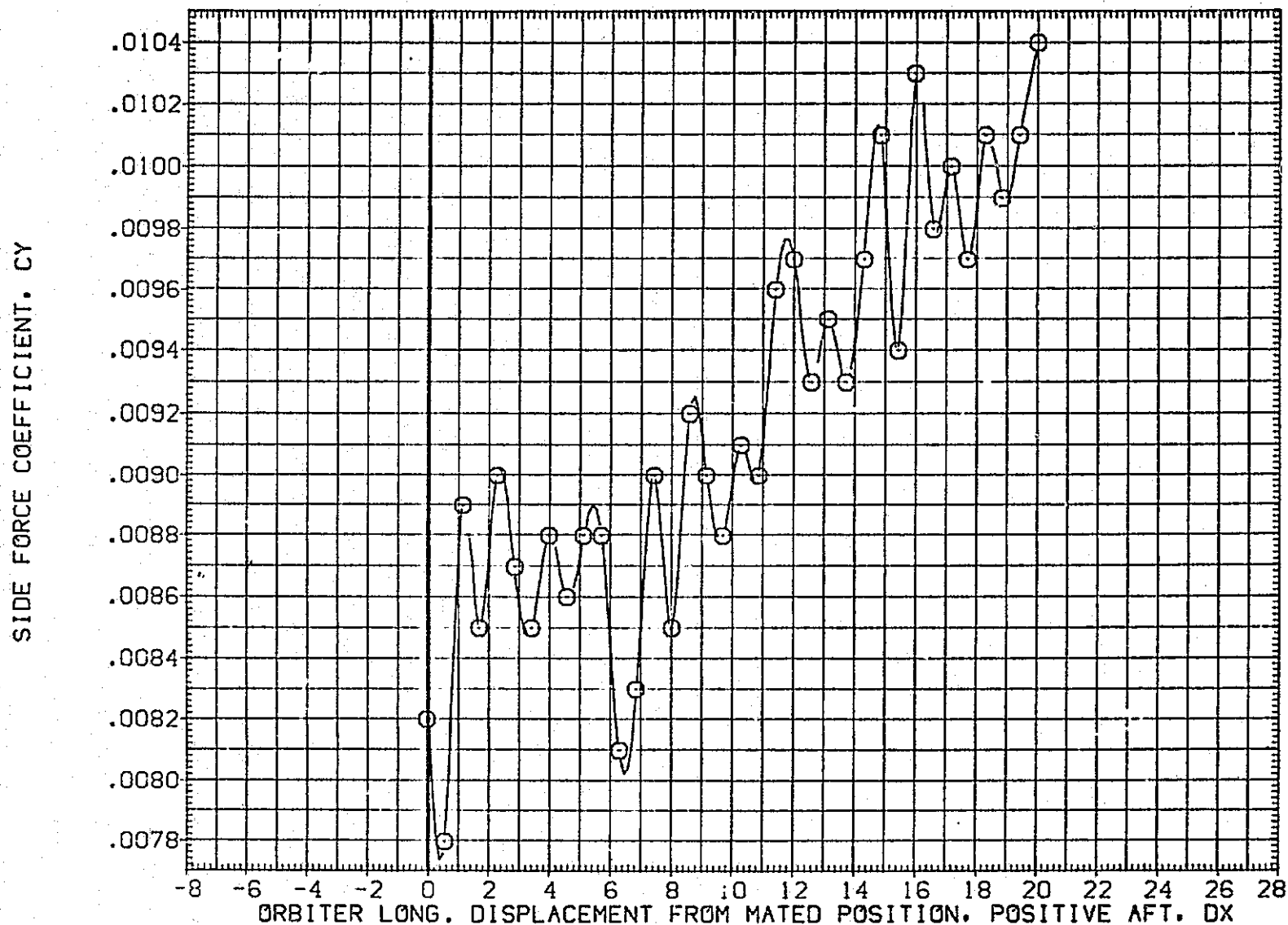


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE065)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		OZ	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

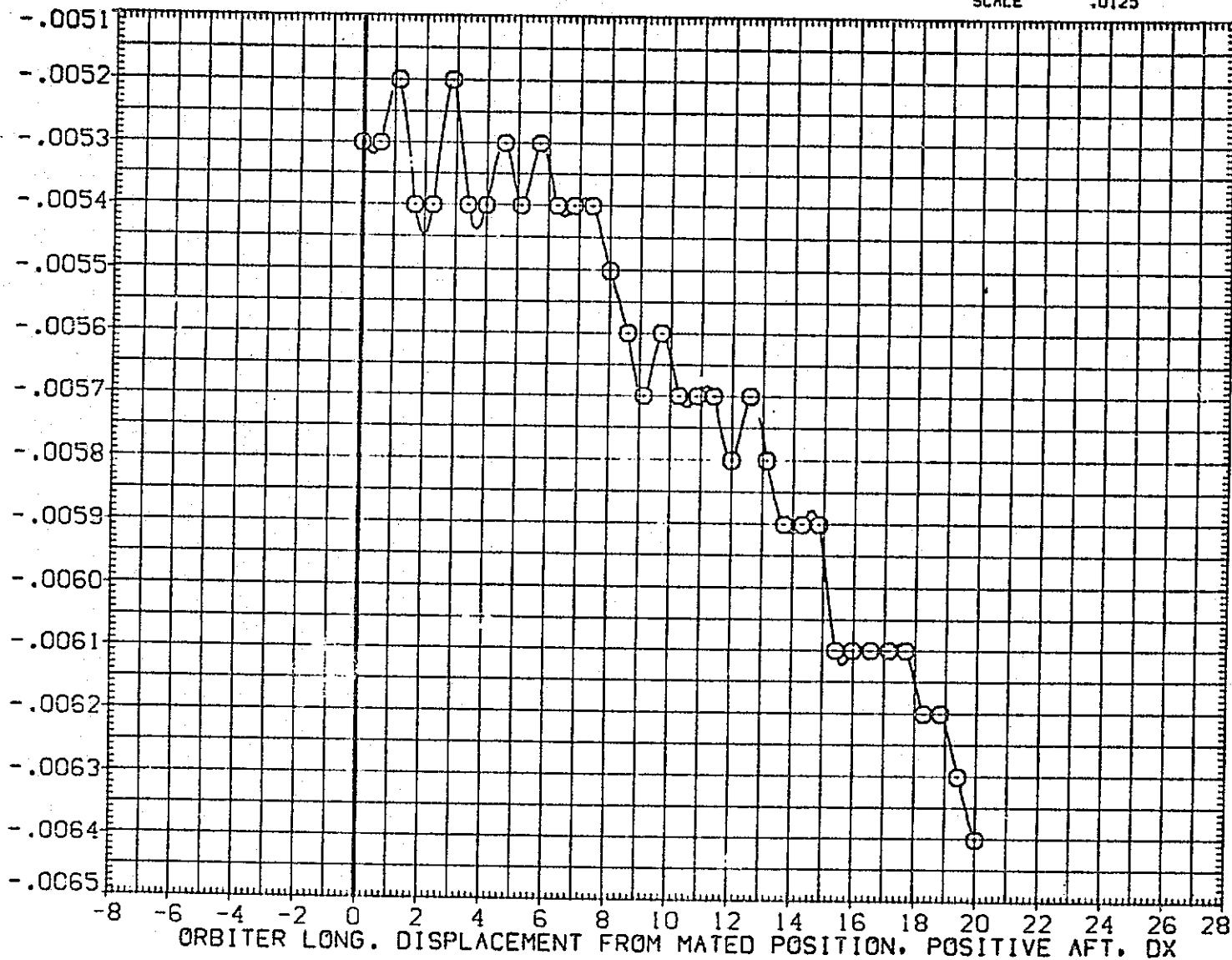


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

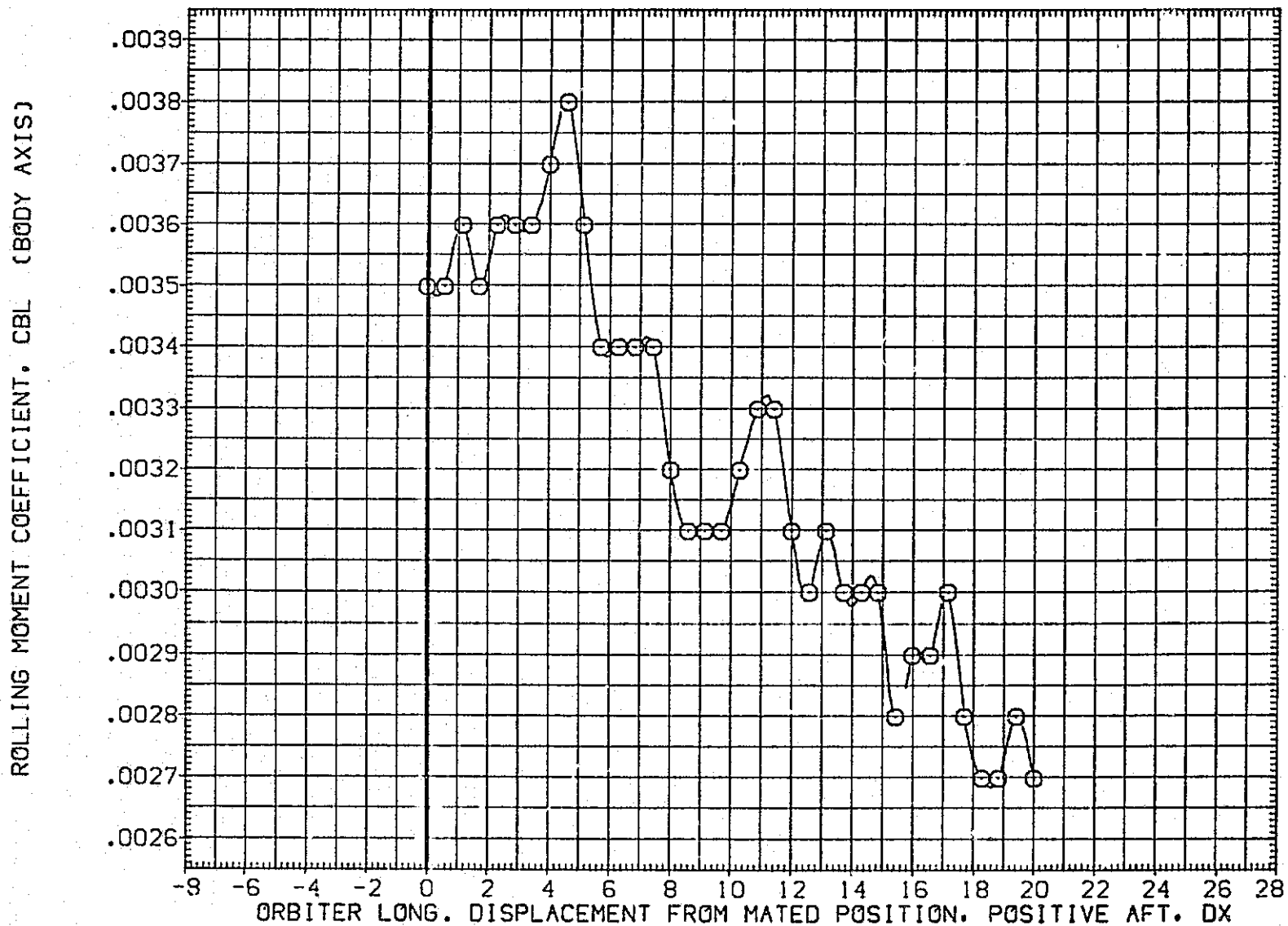


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE065)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.609	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DY	.000
	DZ	.000	IORB	6.000
	BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

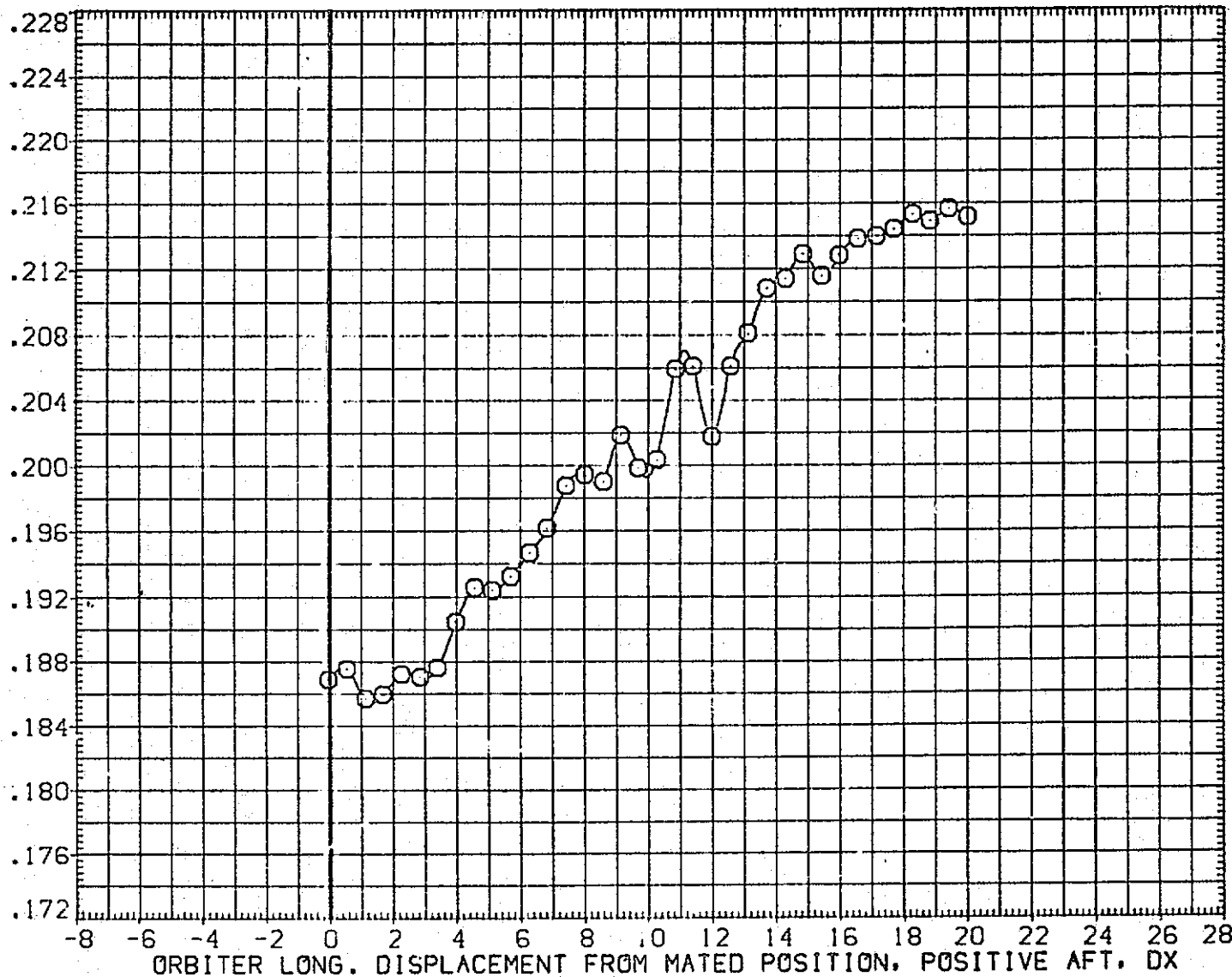


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

SYMBOL
○MACH
.609

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DY	.000
DZ	.000	IORB	6.000
BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

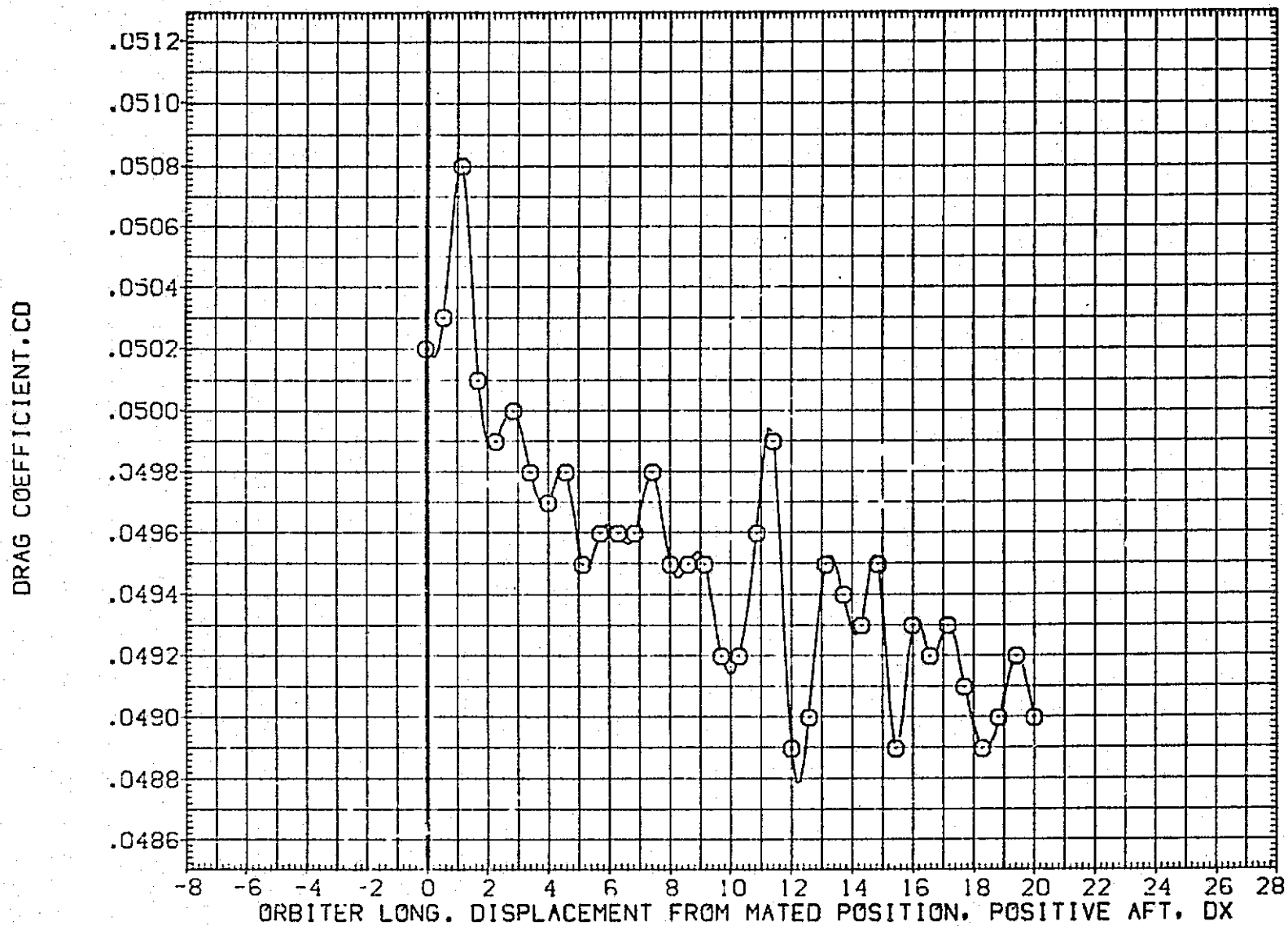


FIG.169 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE065

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE066)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	SO.FT.	
○	.610	2.000	.000	5.000	.000	5500.0000	IN.	
		5.000	5.000	.000	.000	327.7800	IN.	
		.000	.000	15.000	6.000	2348.0400	IN.	
		15.000	6.000	5.000	.000	1339.9000	IN.	XC
		BETA0	RUDDER			YMRP	IN.	YC
						ZMRP	IN.	ZC
						SCALE		

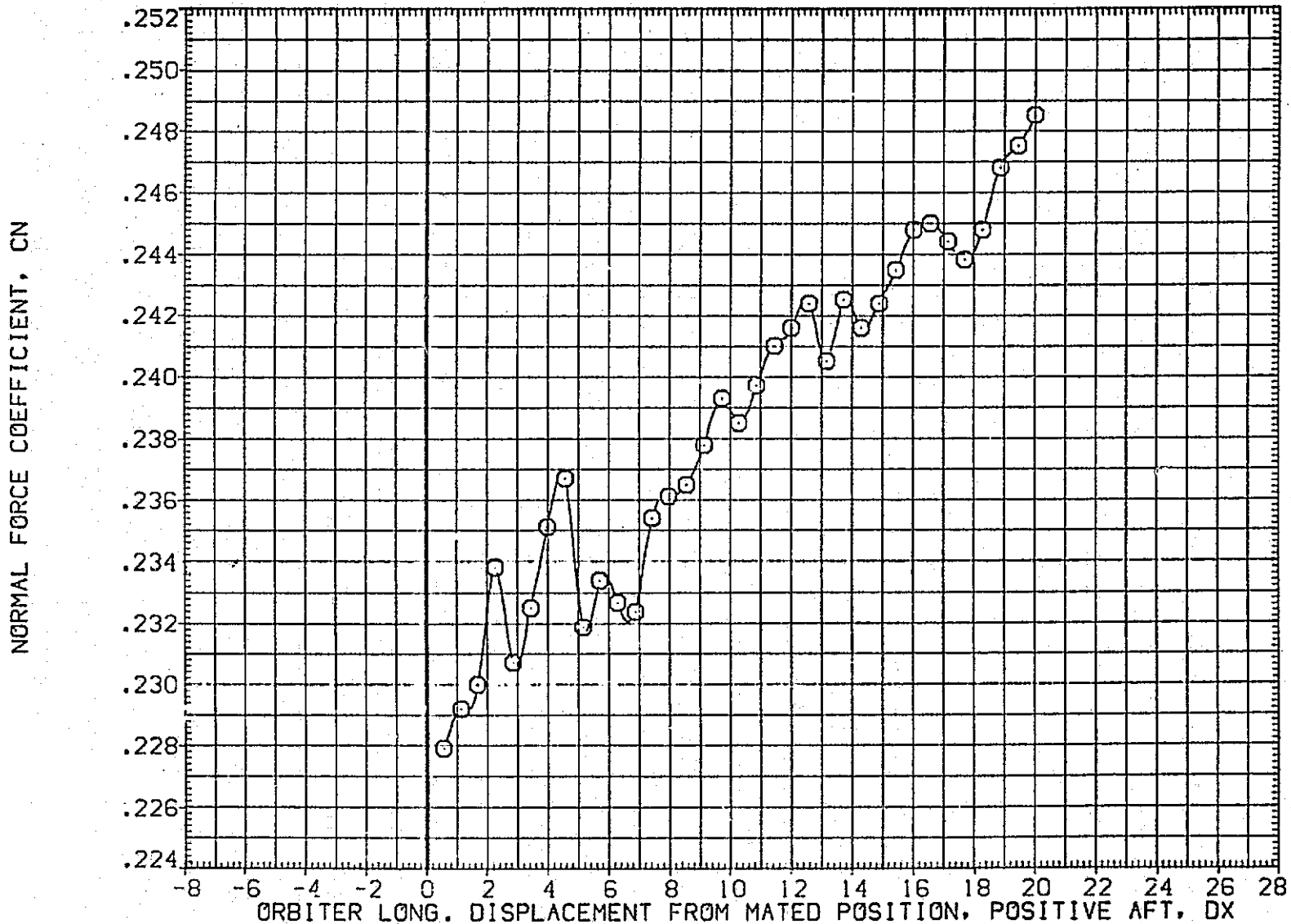


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OY	.000
		OZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

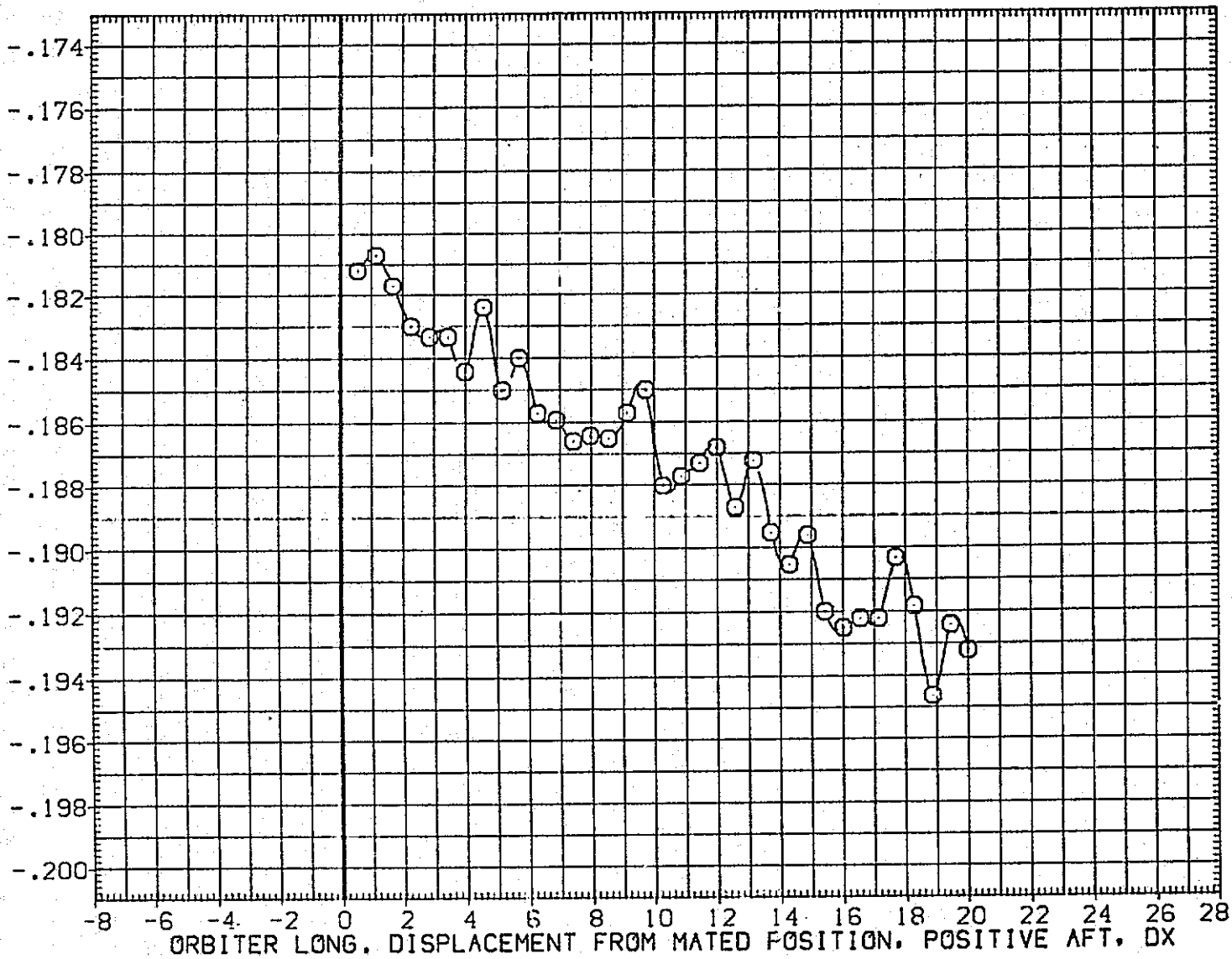


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE066)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

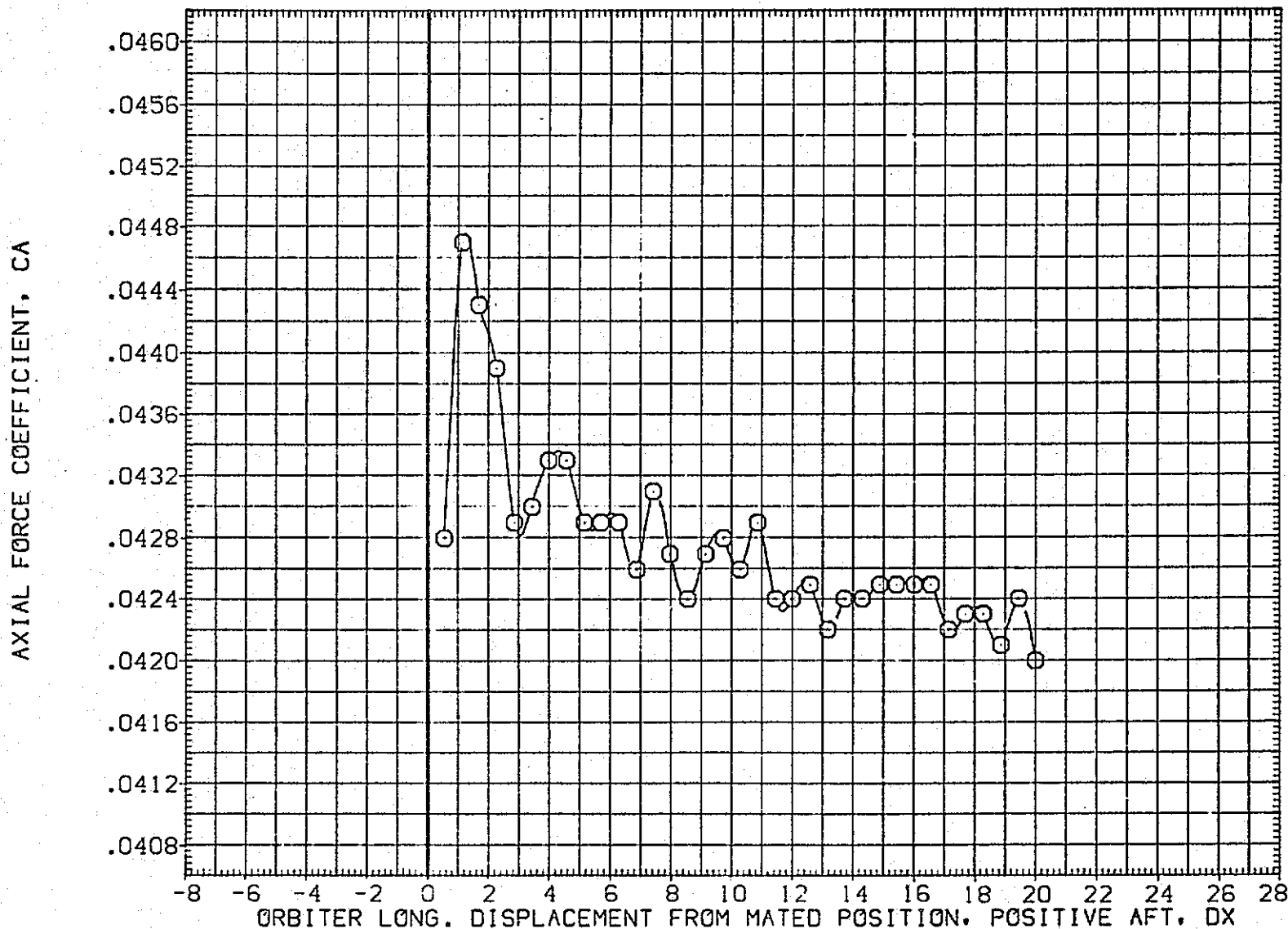


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.900

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

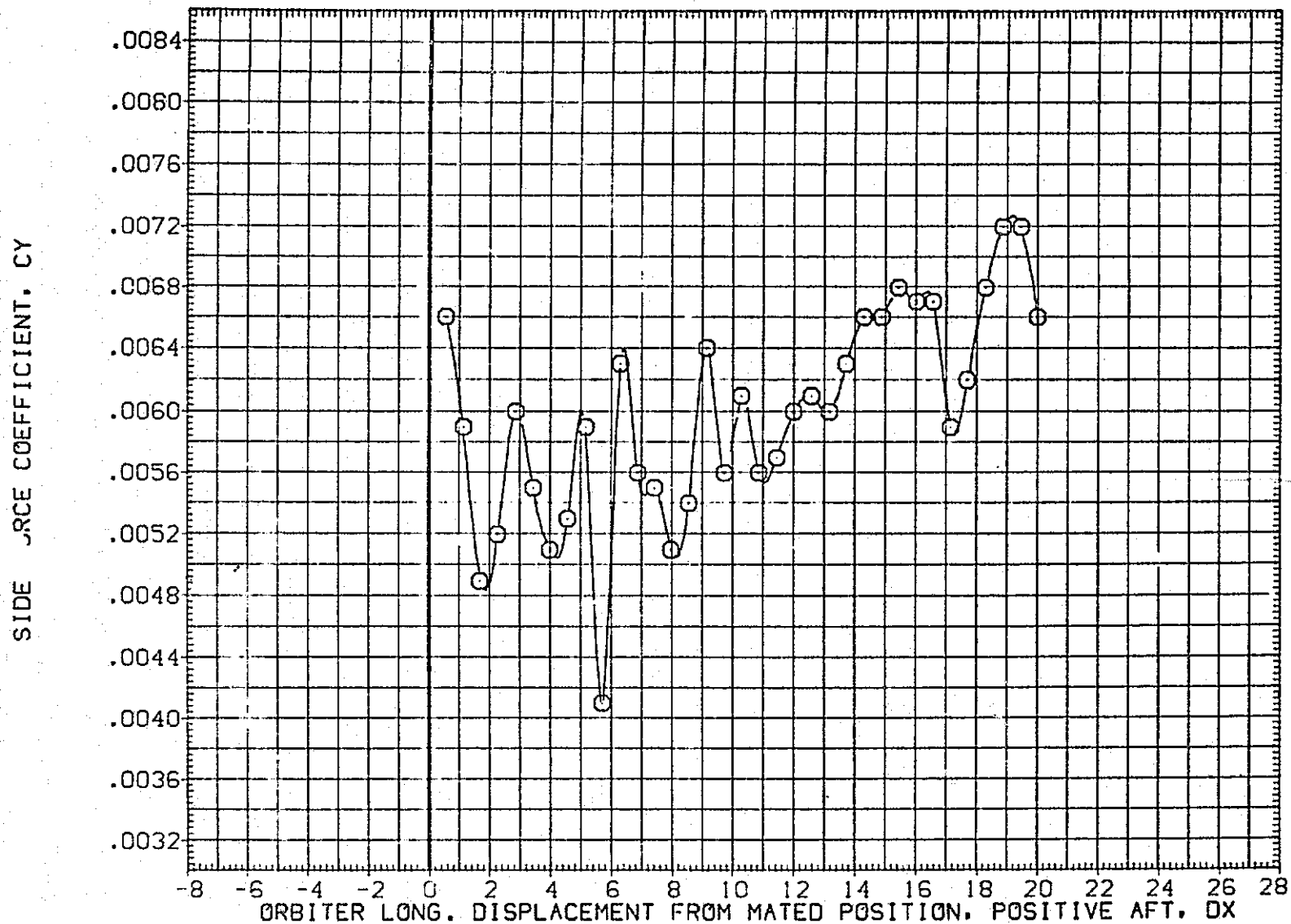


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE066)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

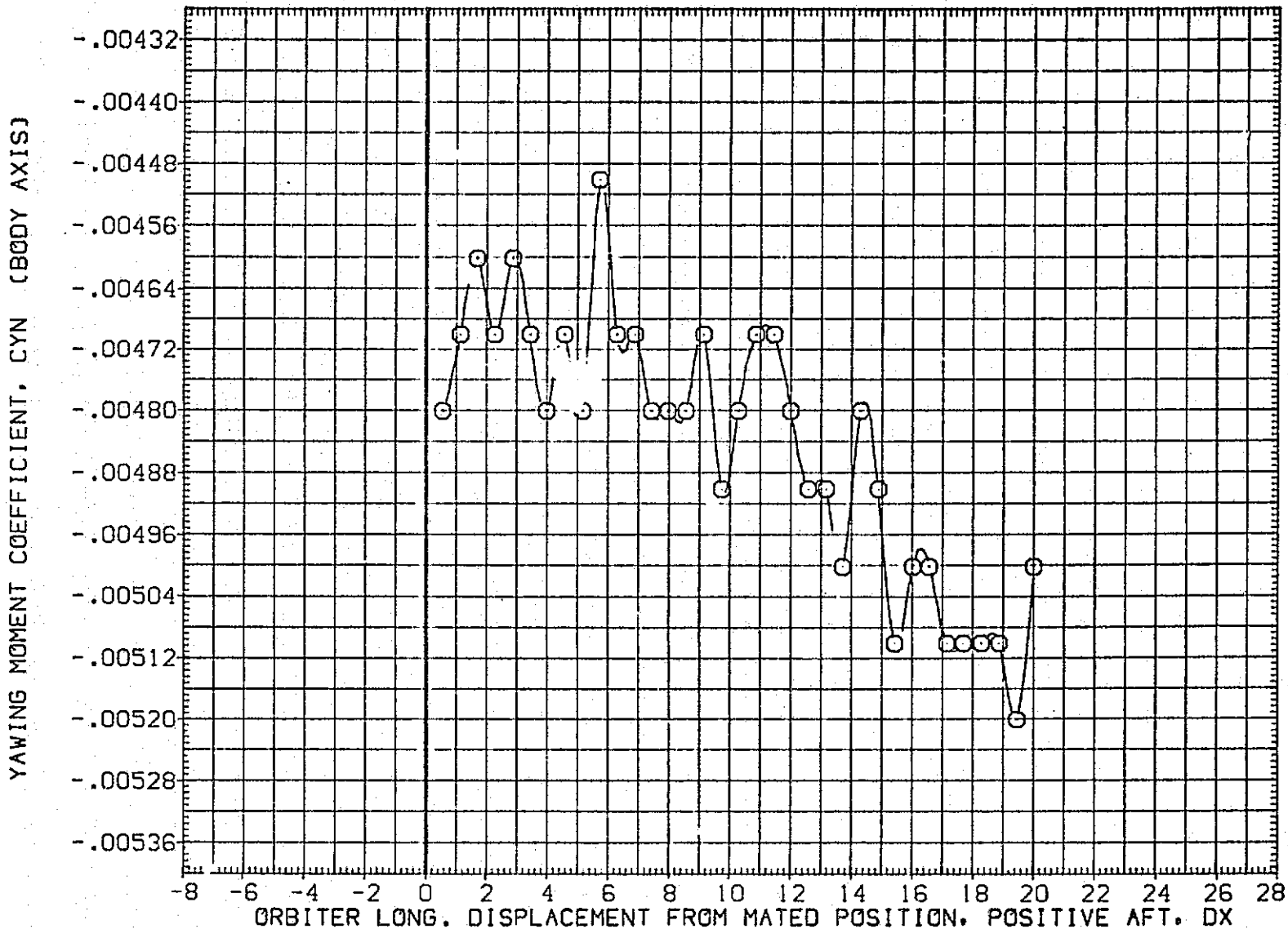


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

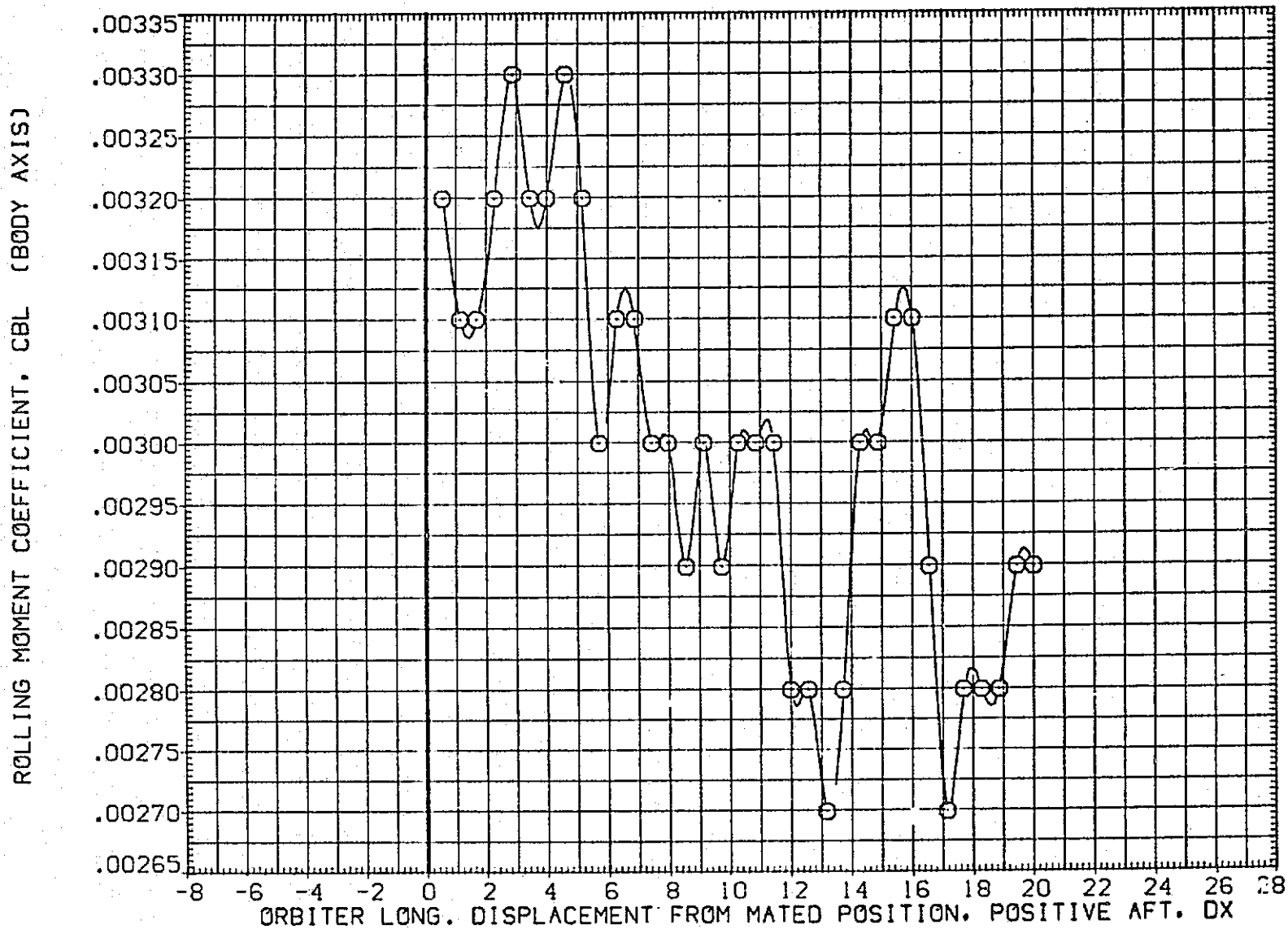


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE066)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.610	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DY	.000
	DZ	15.000	IORB	6.000
	BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

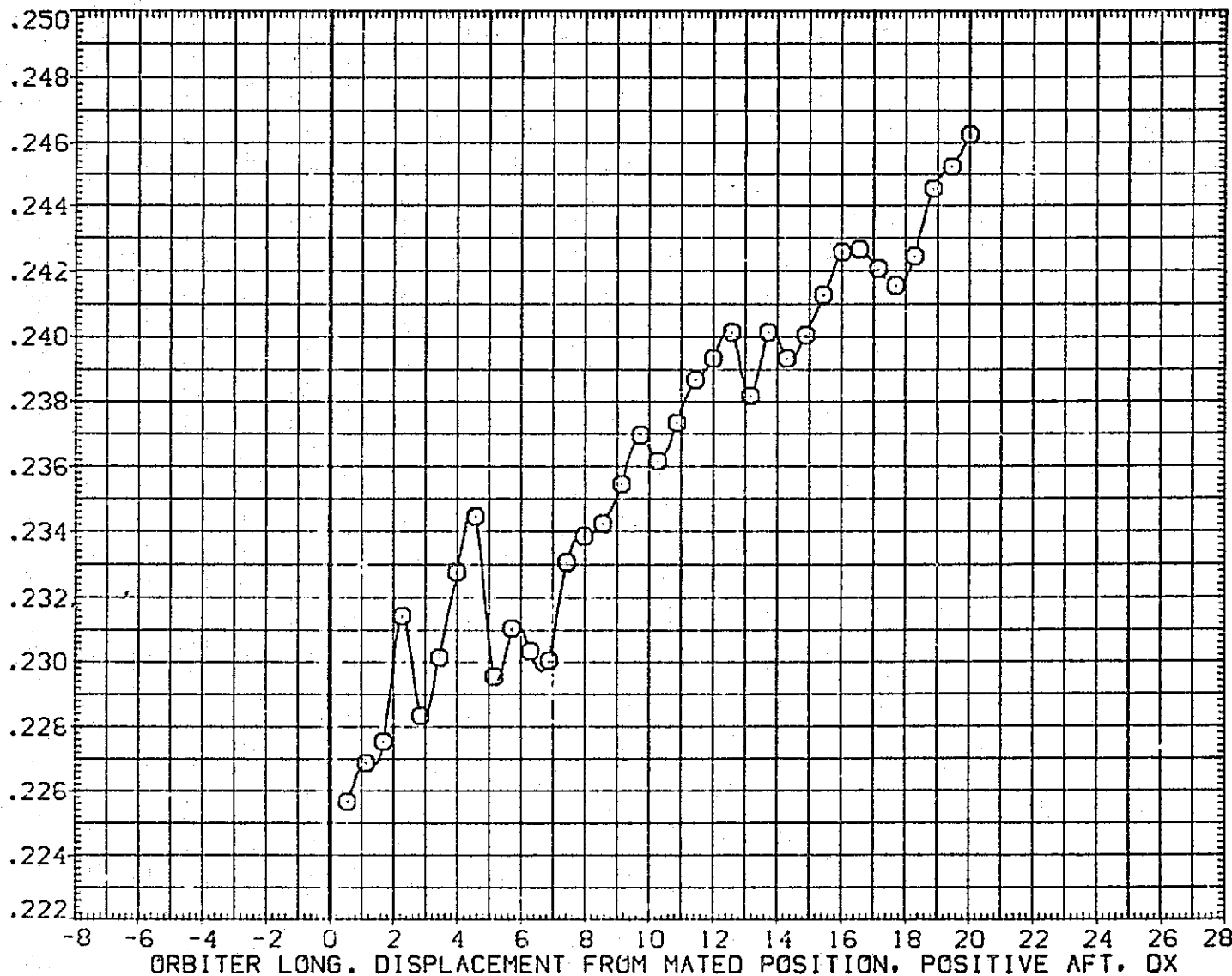


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

SYMBOL	MACH	PARAMETRIC VALUES			
○	.610	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

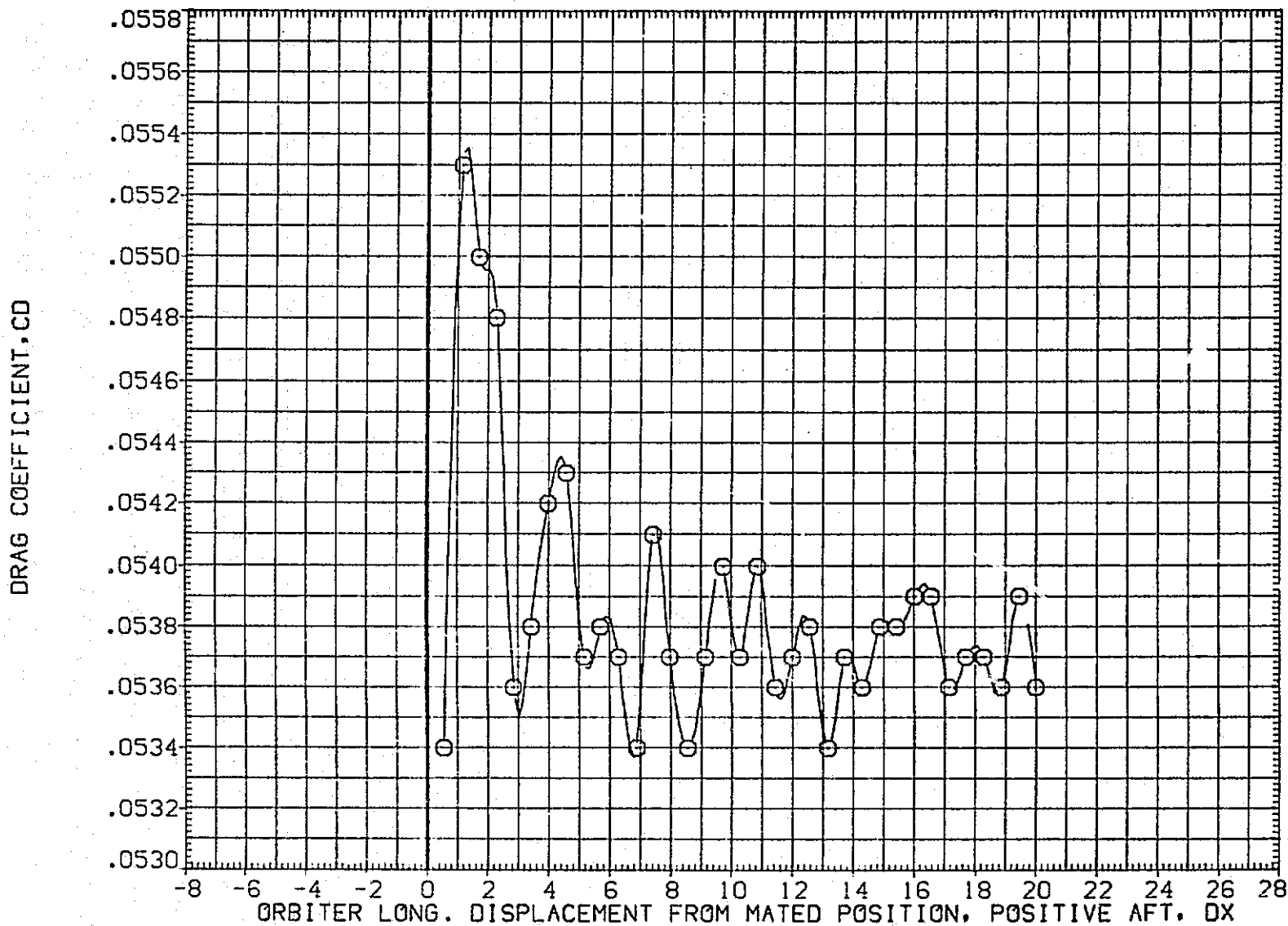


FIG.170 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE066

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE067)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

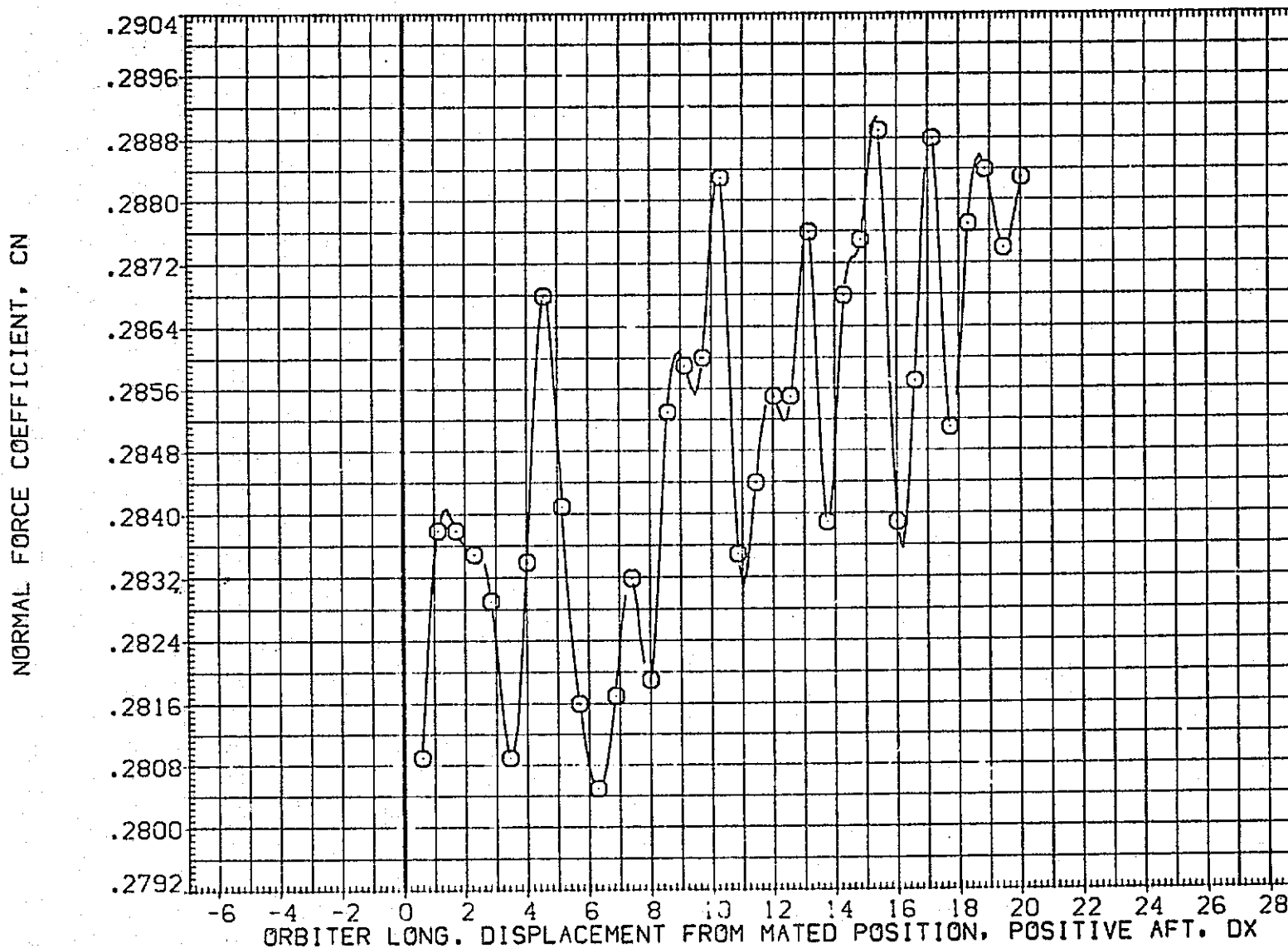


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		.DZ	60.000	IORB	5.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

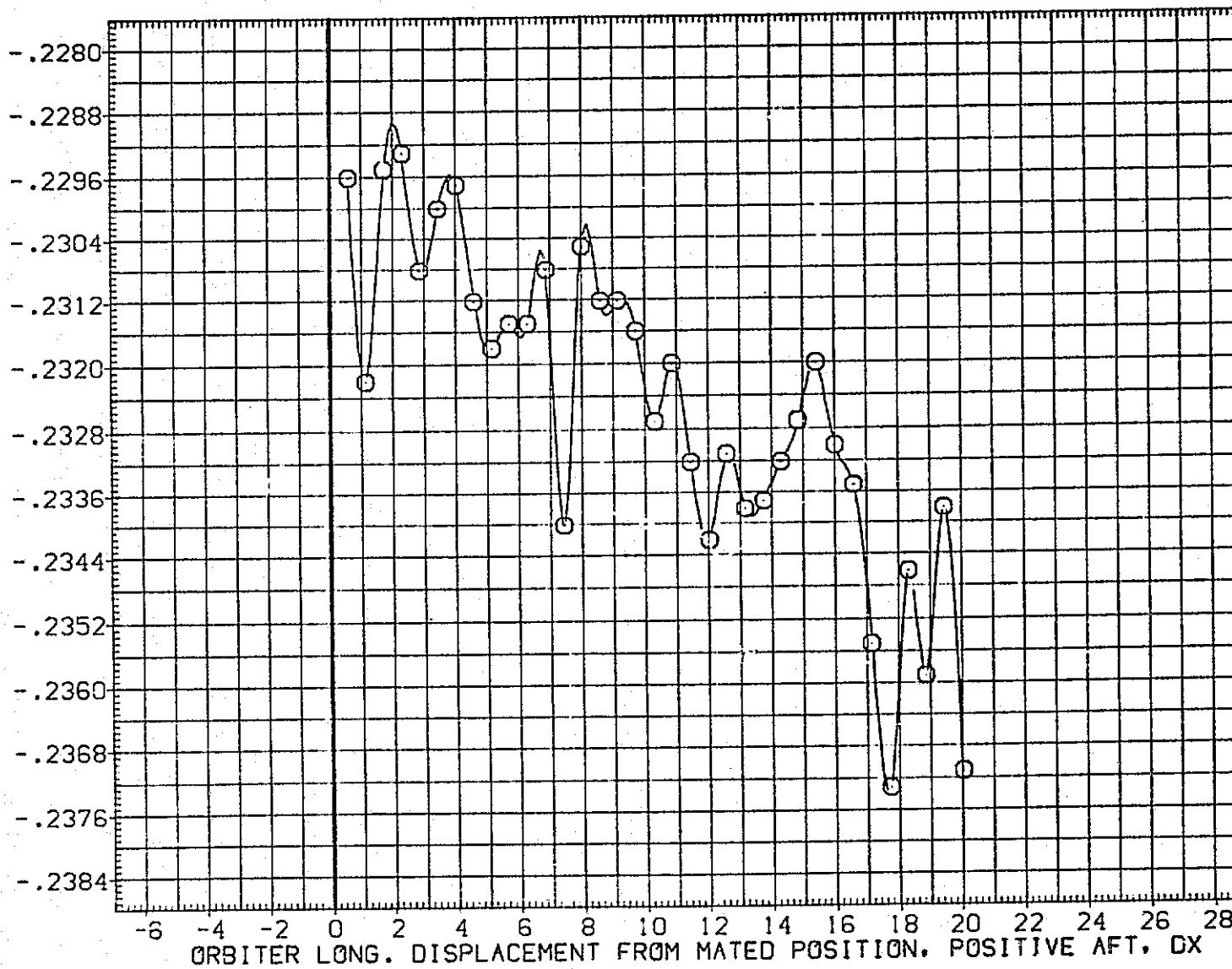


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	SO.PT.	
○	.609	2.000	.000	5.000	.000	5500.0000	IN.	
		5.000		.000		327.7800	IN.	
		.000		60.000	6.000	2348.0400	IN.	
		60.000		.000		1339.9000	IN.	XC
		5.000				.0000	IN.	YC
						190.7500	IN.	ZC
						.0125		

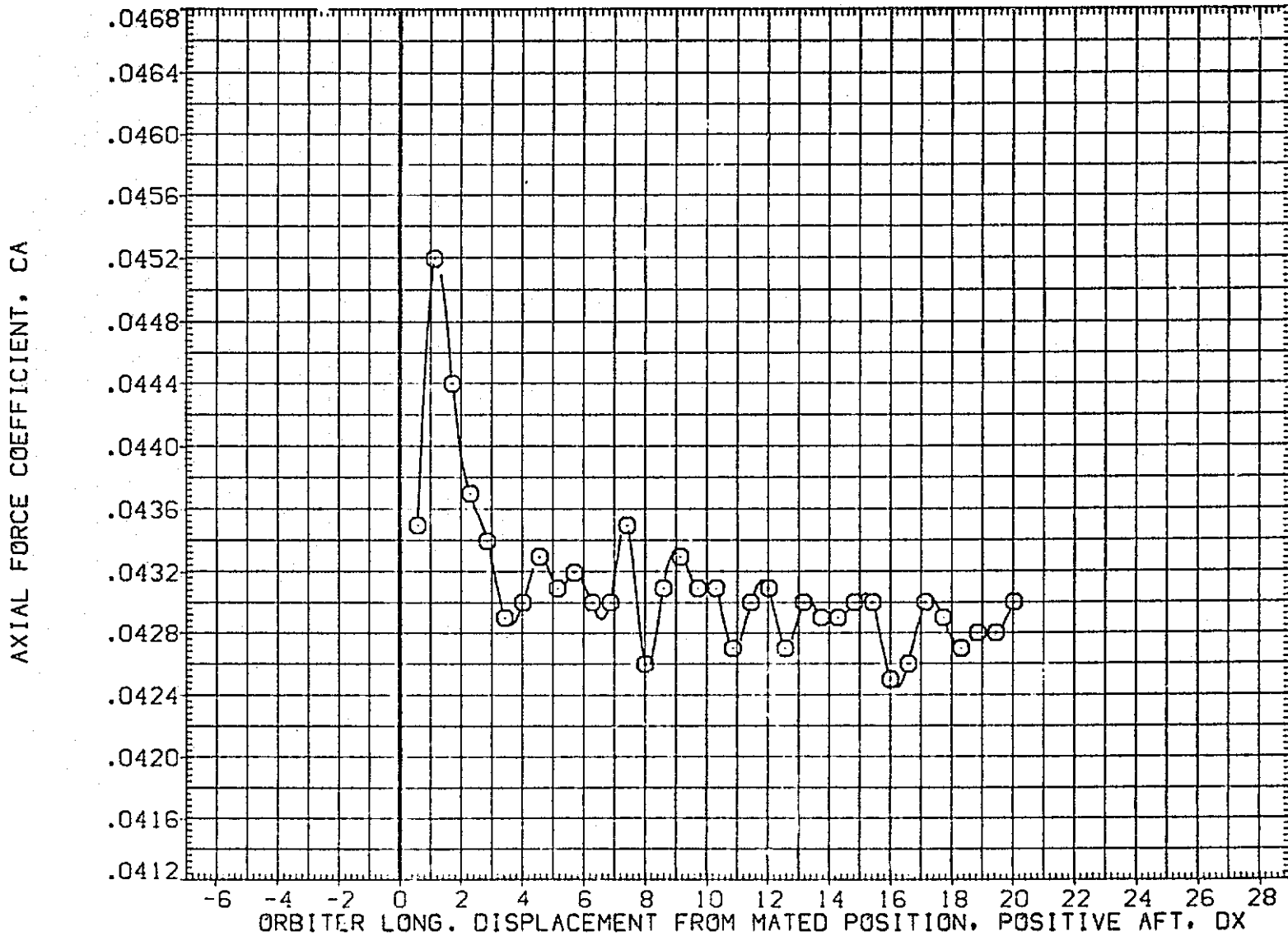


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OY	.000
		DZ	60.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

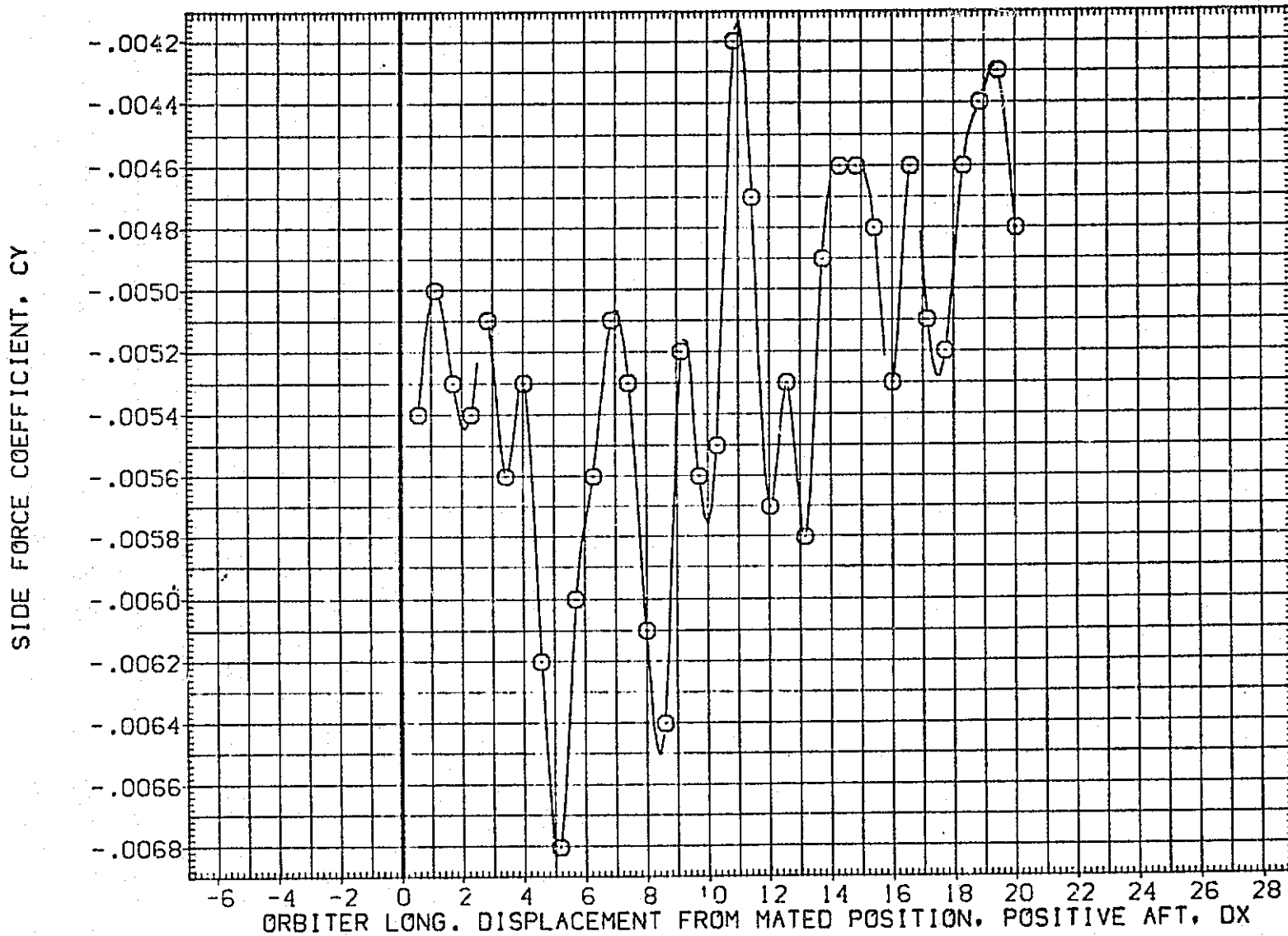


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE067)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	OY	.000	BREF	2348.0400	IN.
		OZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

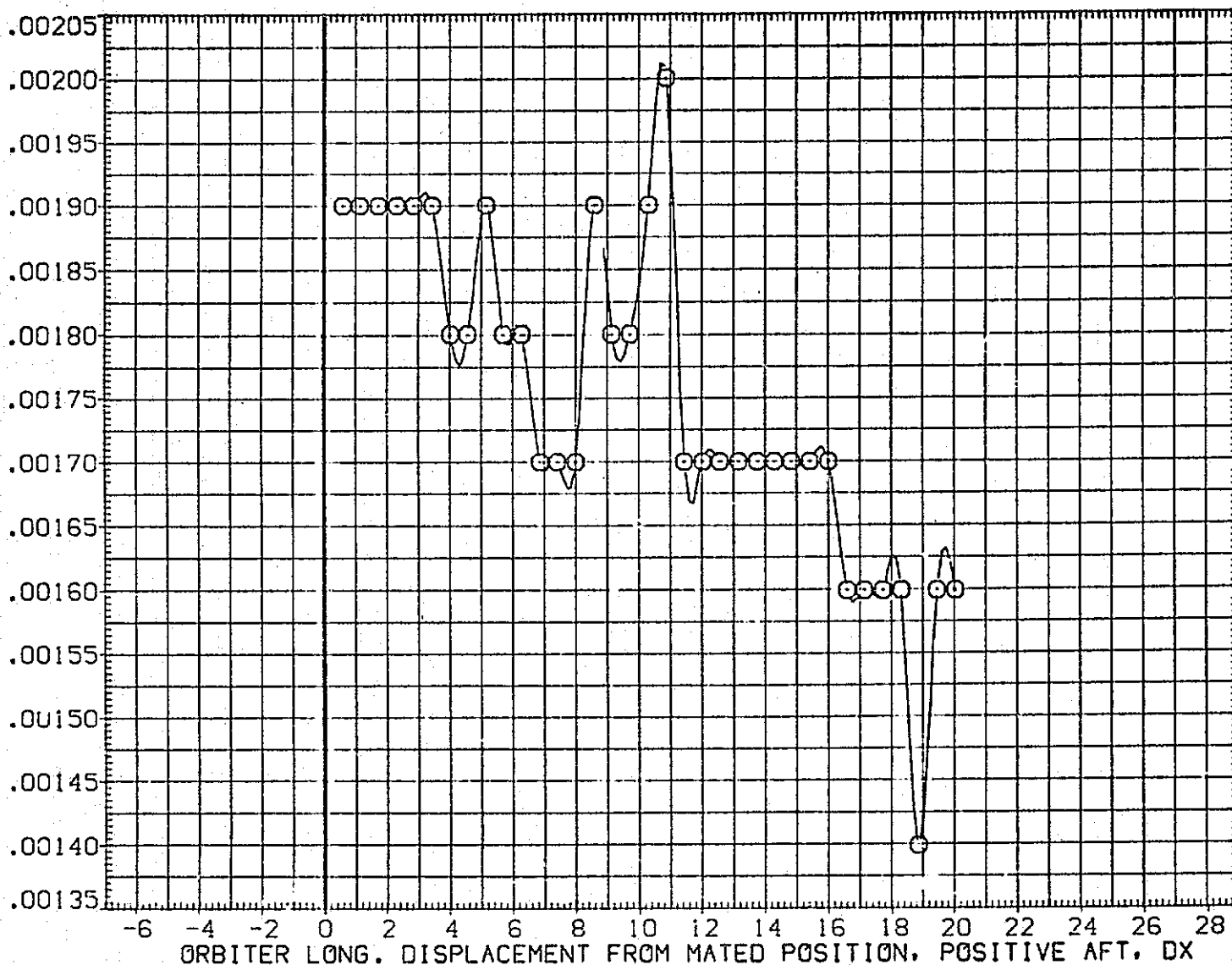


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BOFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

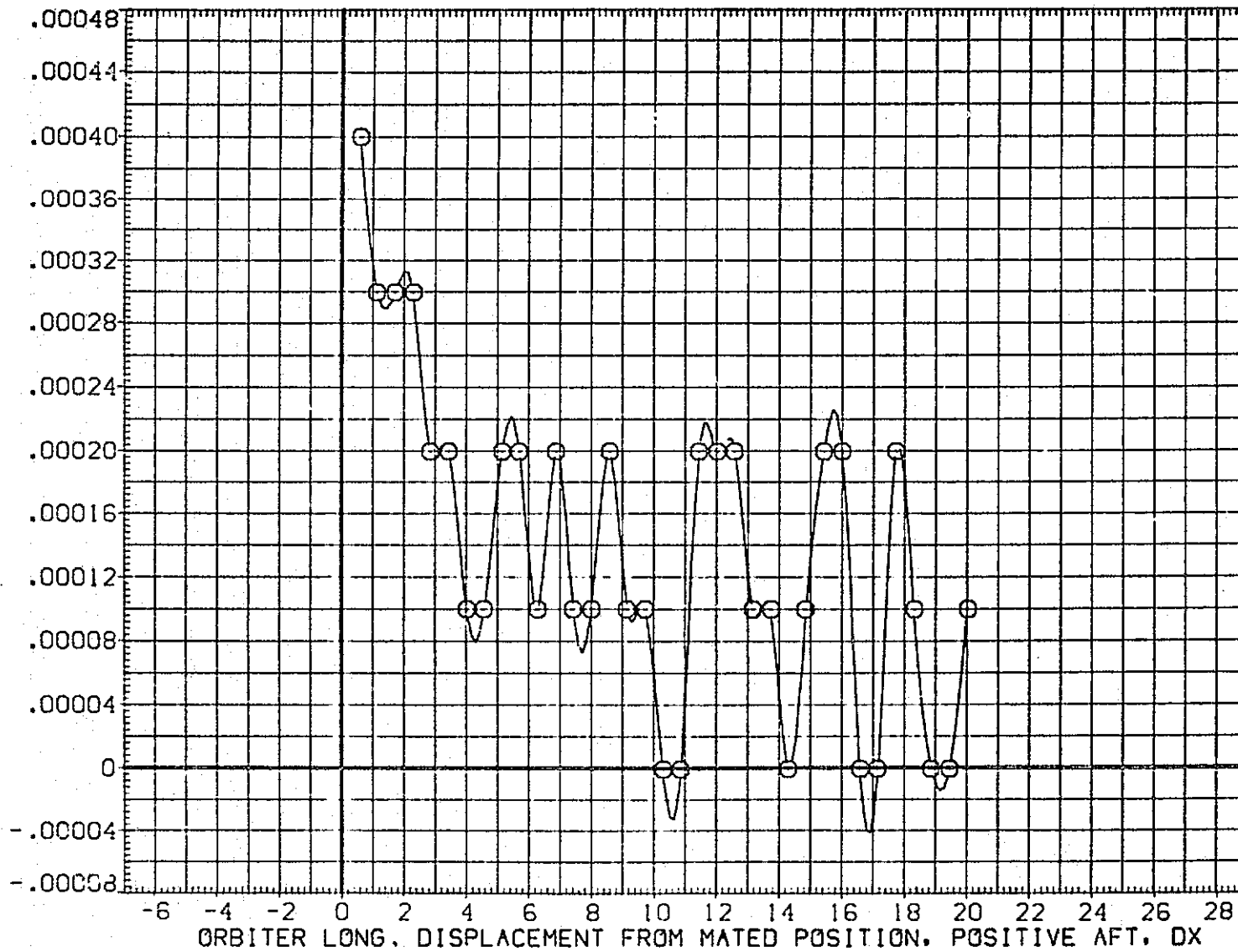


FIG.17† CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE067)

SYMBOL	MACH	PARAMETRIC VALUES						REFERENCE INFORMATION		
○	.609	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.		
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.		
		BDFLAP	.000	OY	.000	BREF	2348.0400	IN.		
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC		
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC		
						ZMRP	180.7500	IN. ZC		
						SCALE	.0125			

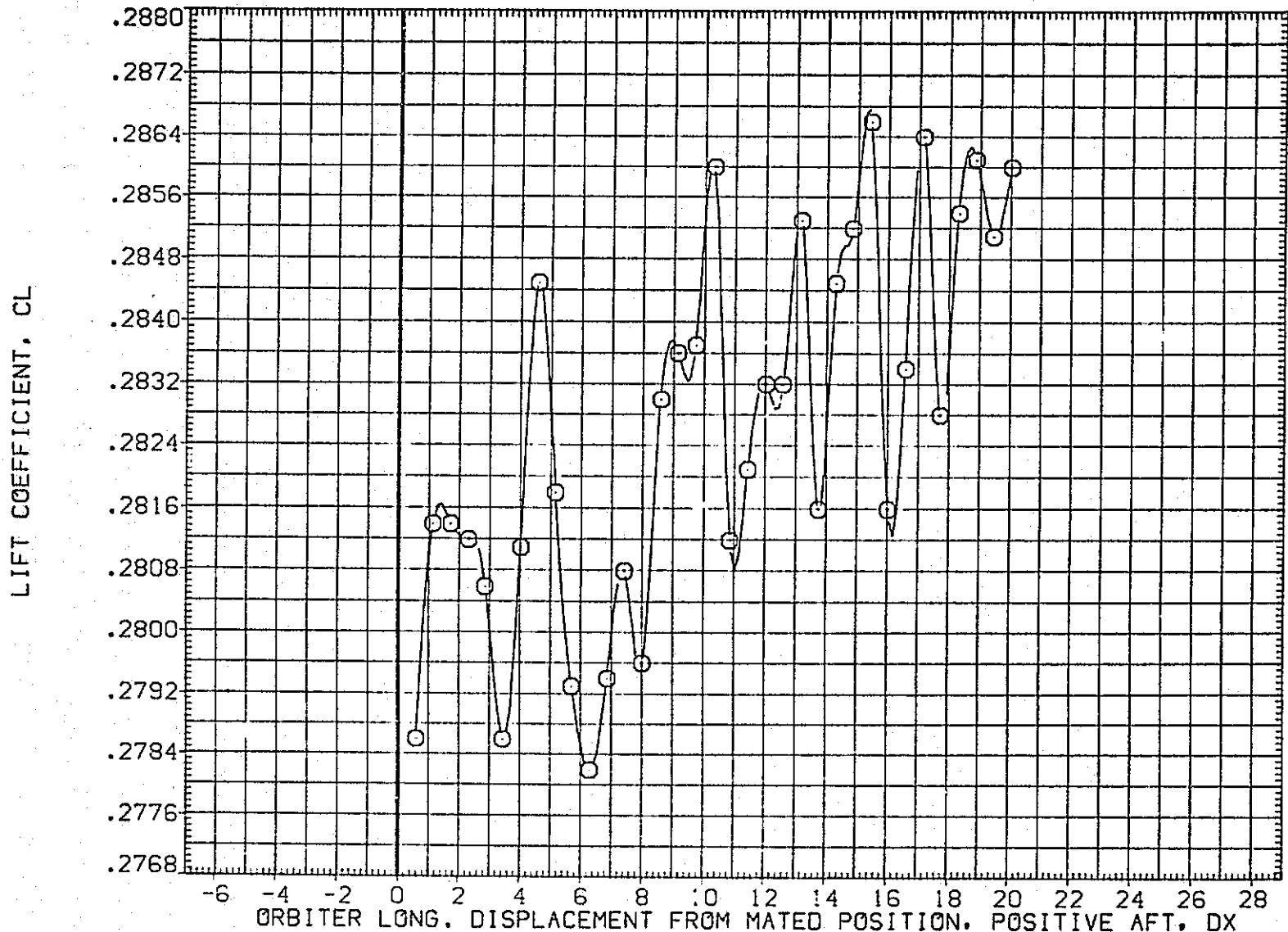


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

SYMBOL	MACH	PARAMETRIC VALUES			
○	.609	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

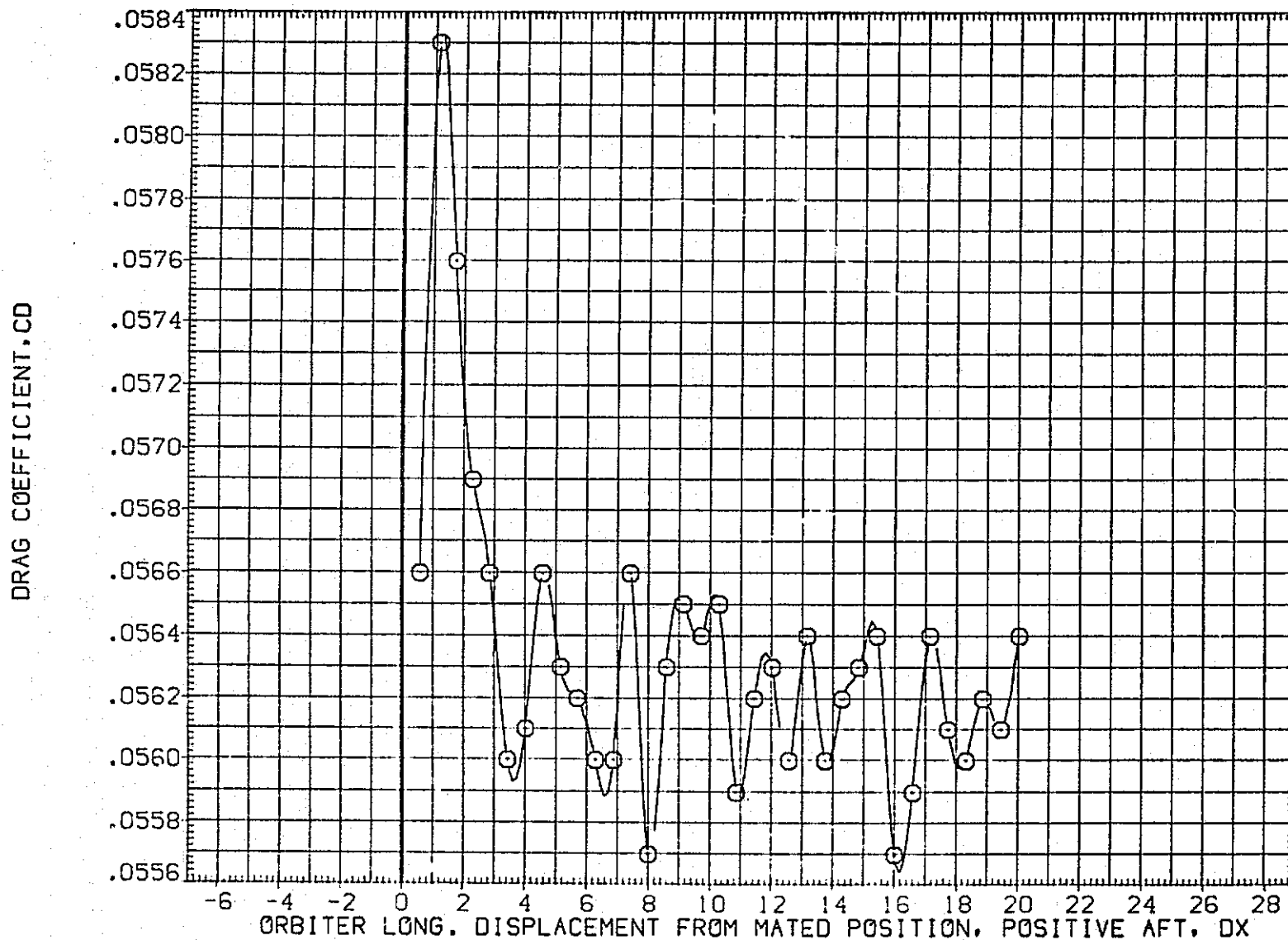


FIG.171 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=5, RFE067

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE068)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	16.300	DX	.000
	DY	.000	IORB	4.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

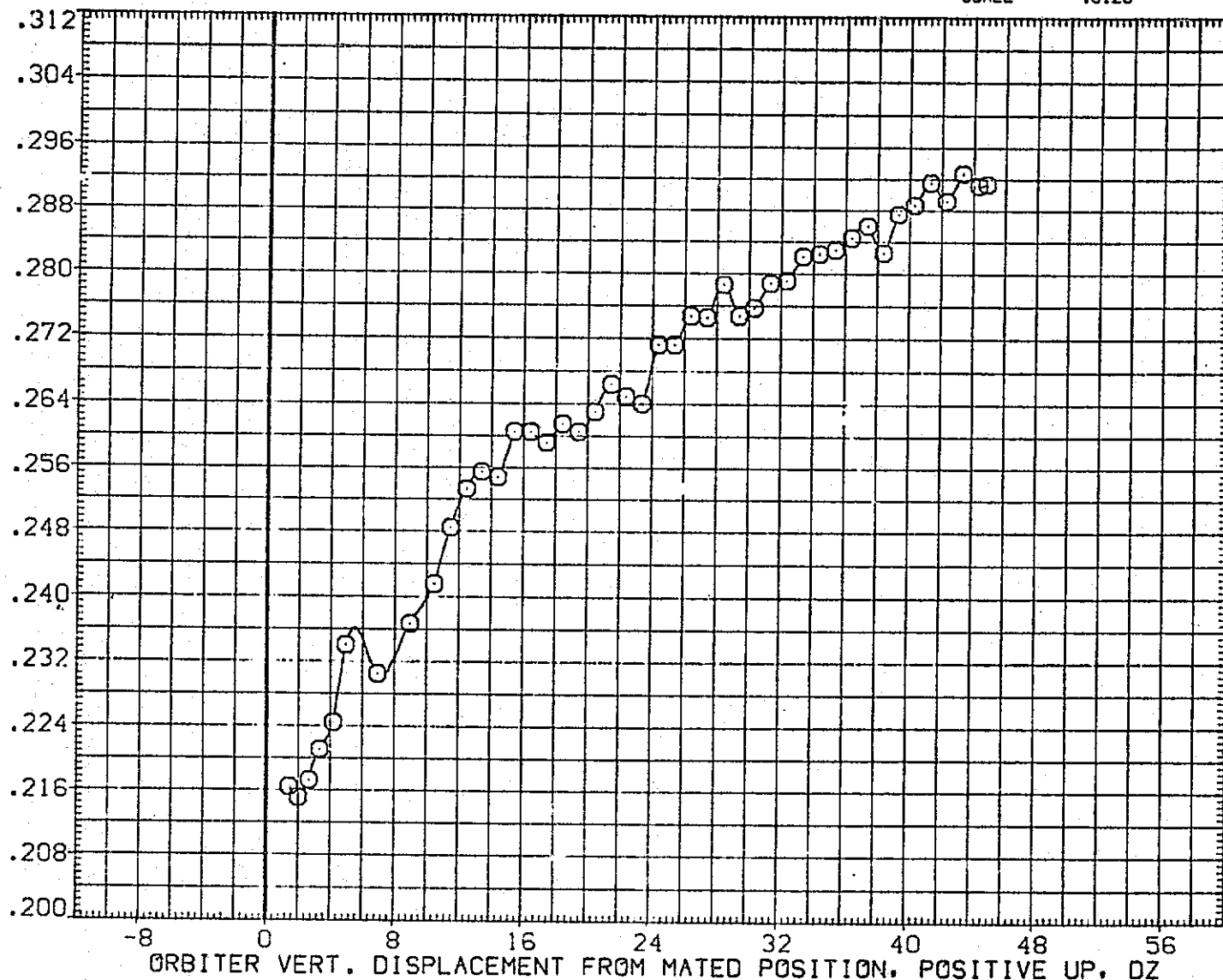


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

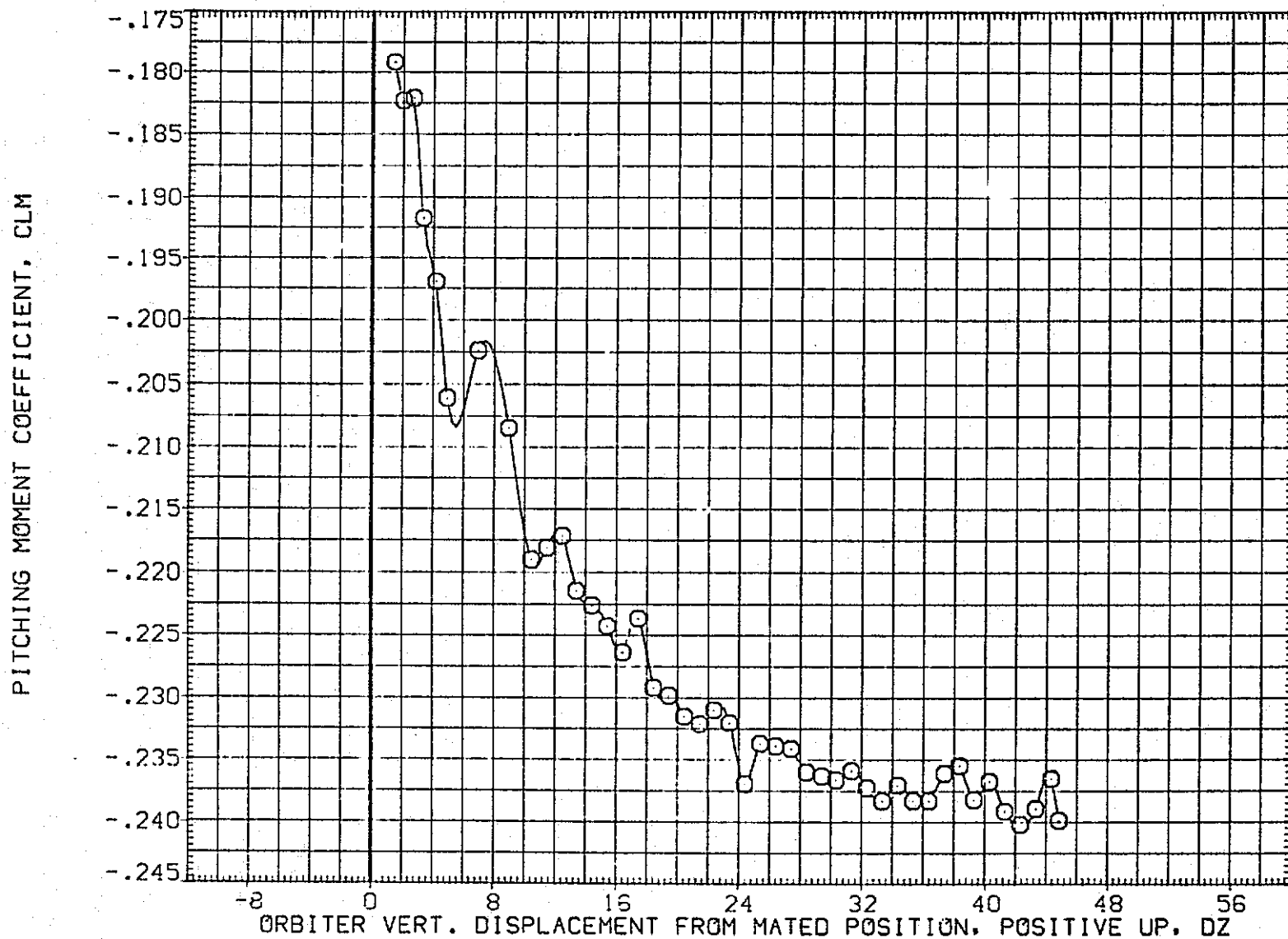


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE068)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

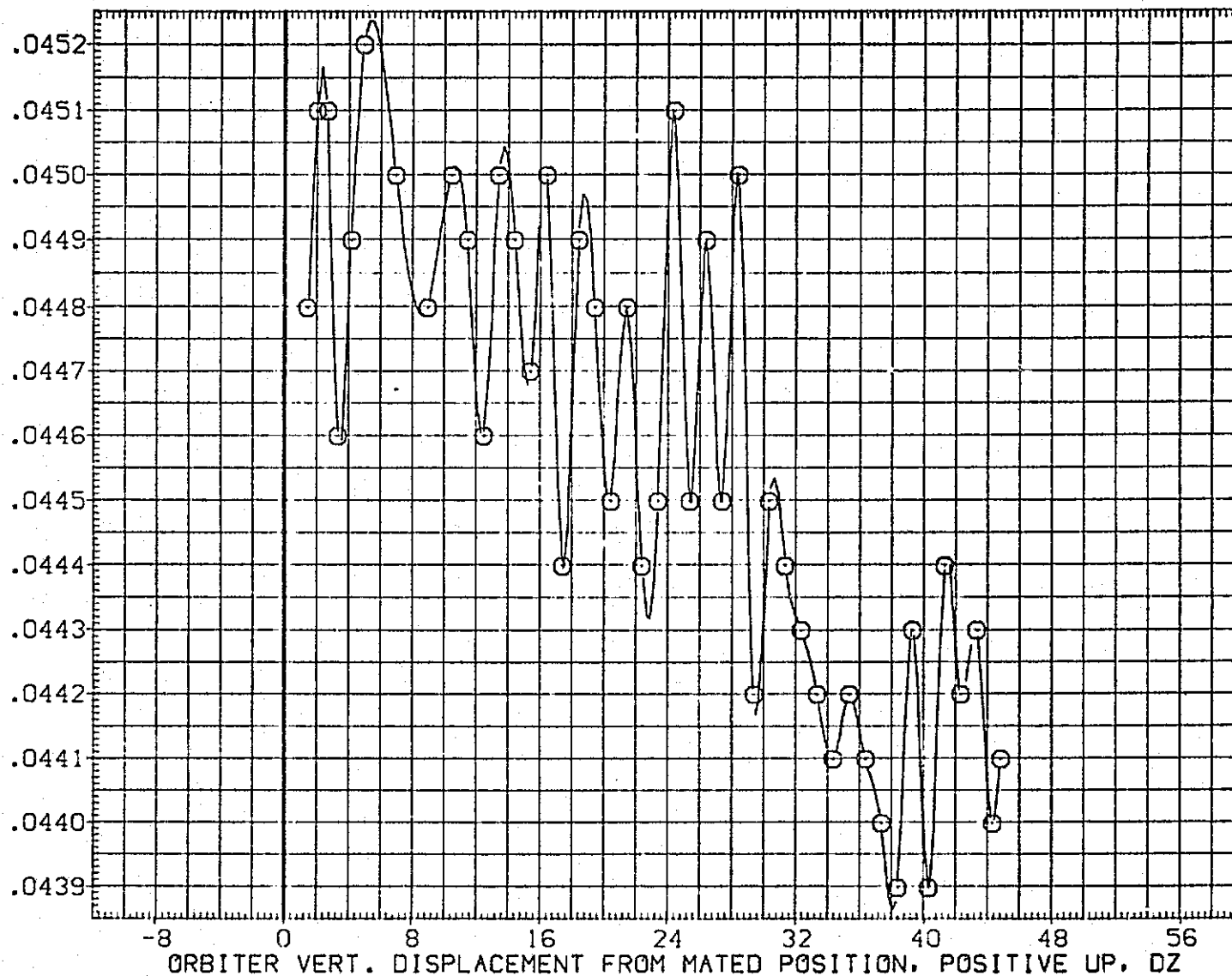


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

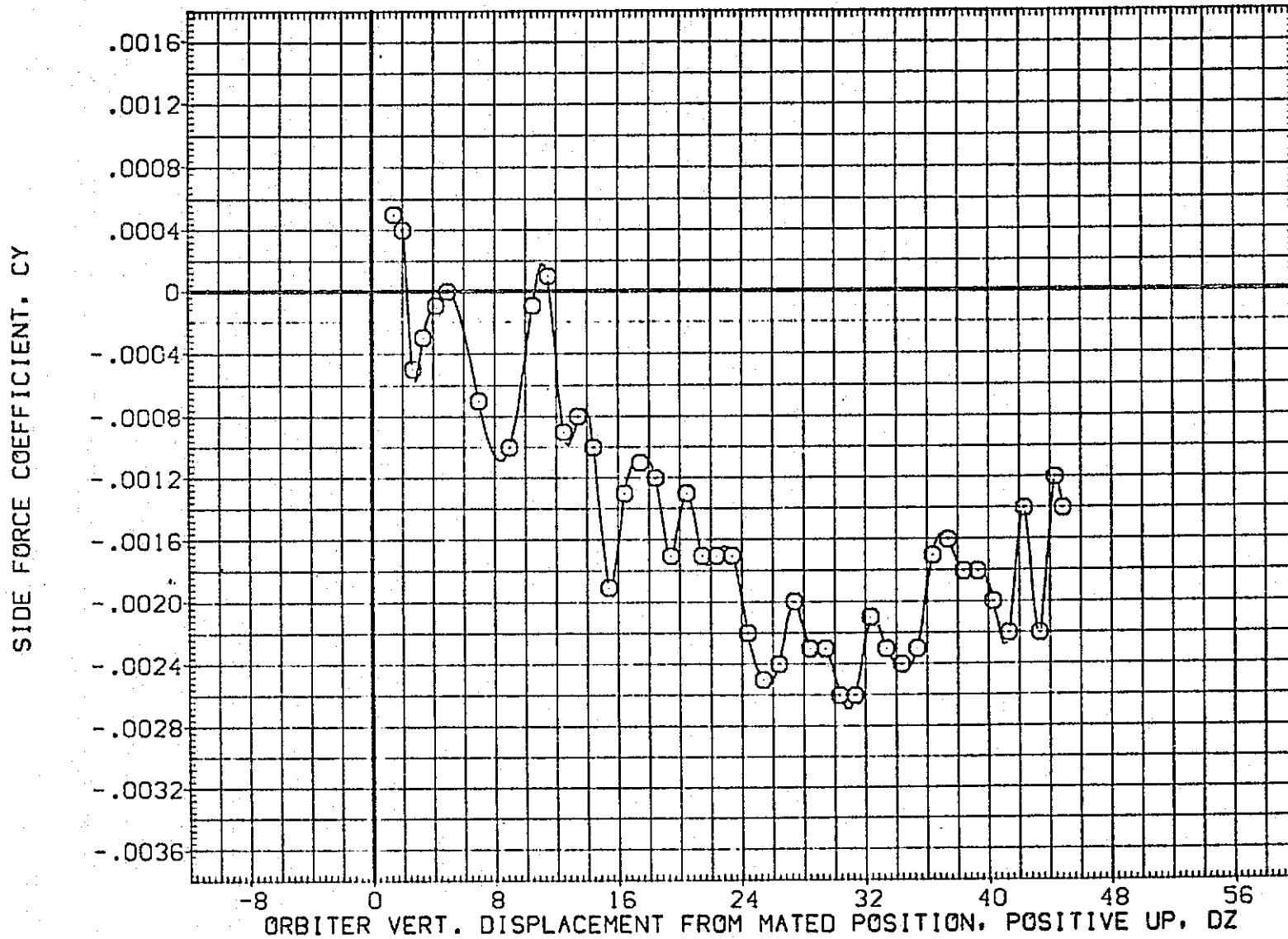


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE068)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	OX	SREF	SO.FT.	
○	.602	2.000	.000	5.000	.000	5500.0000	50. FT.	
		STAB	.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	OX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

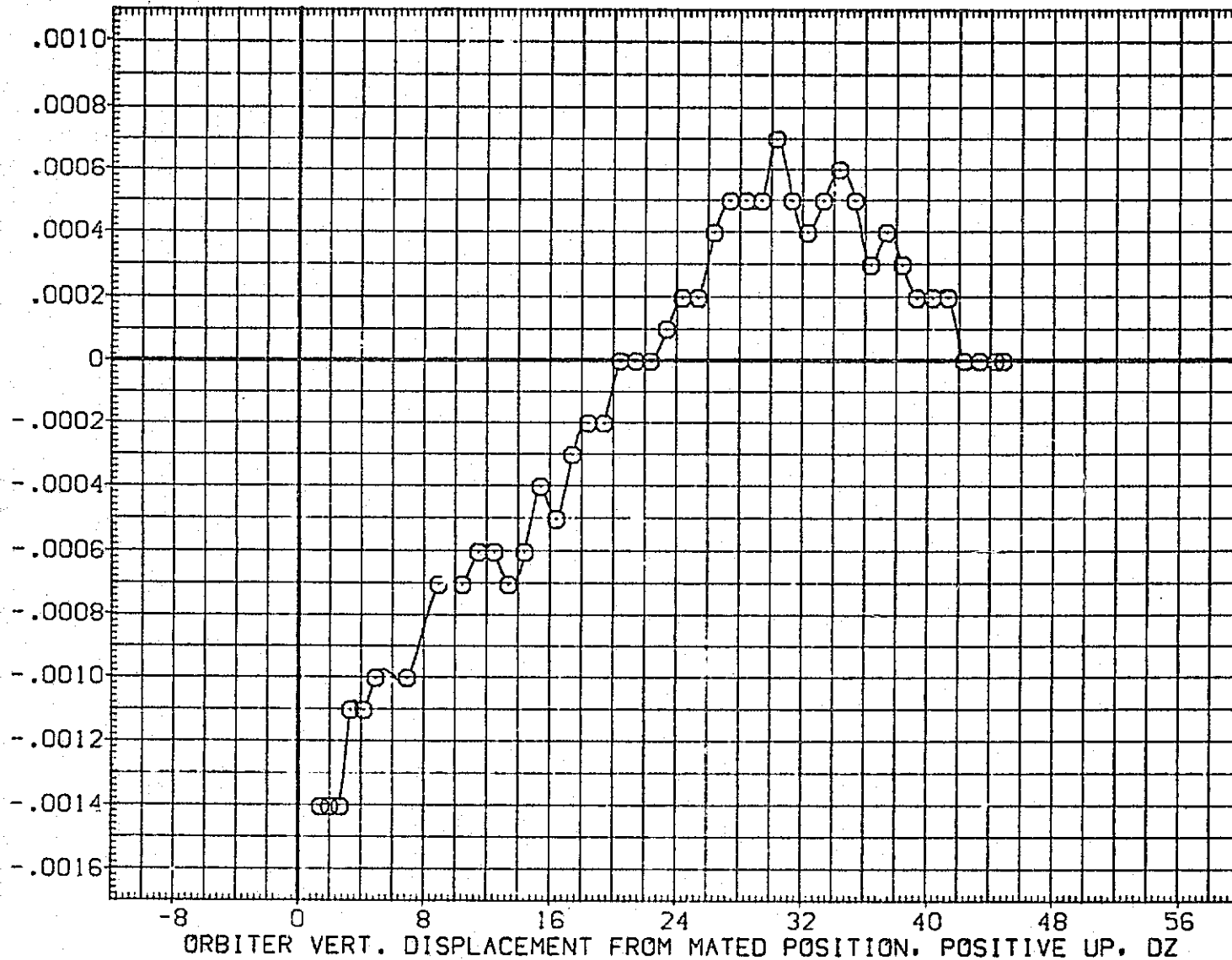


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

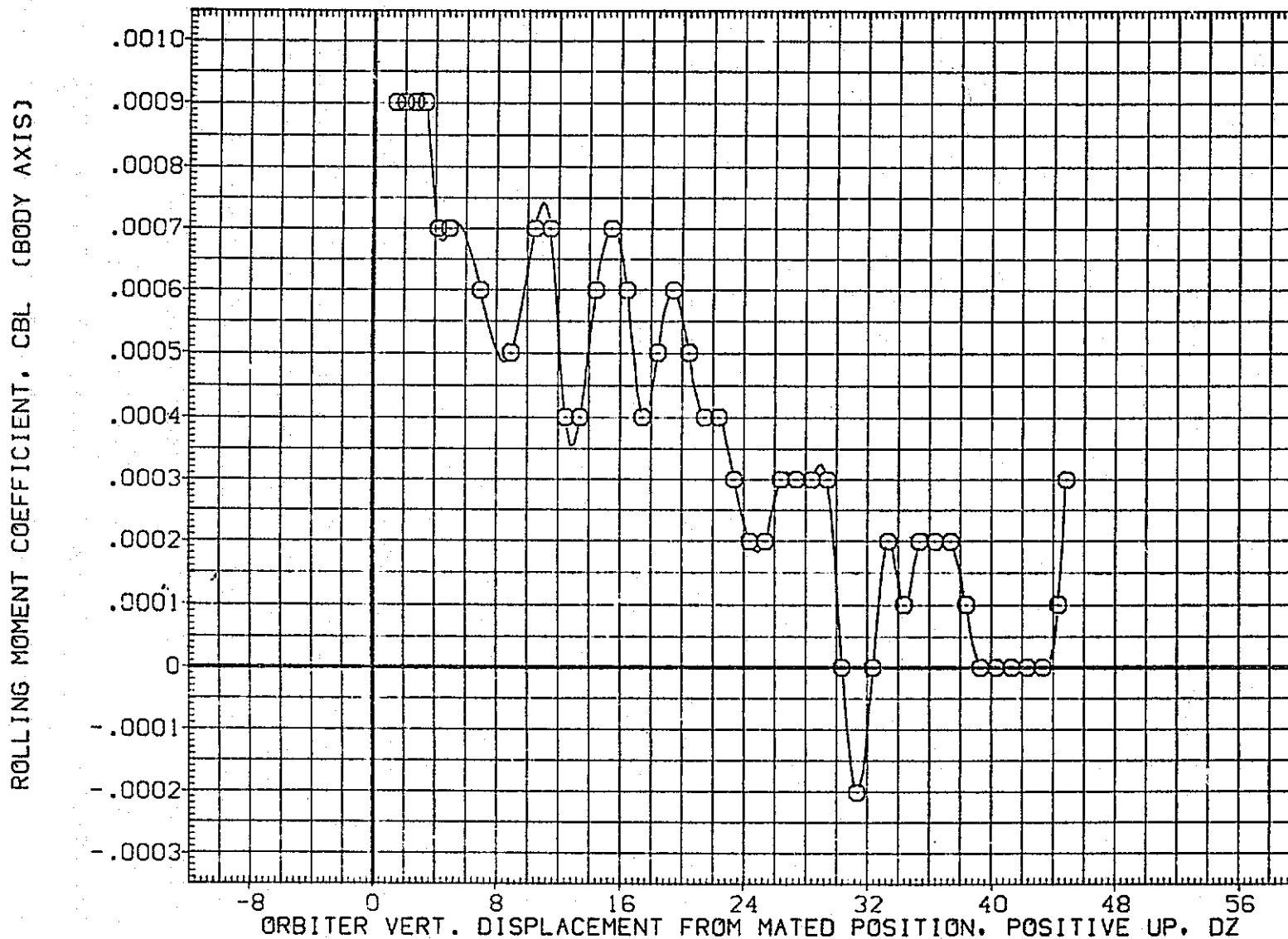


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE068)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	16.300	DX	.000
	DY	.000	IORB	4.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

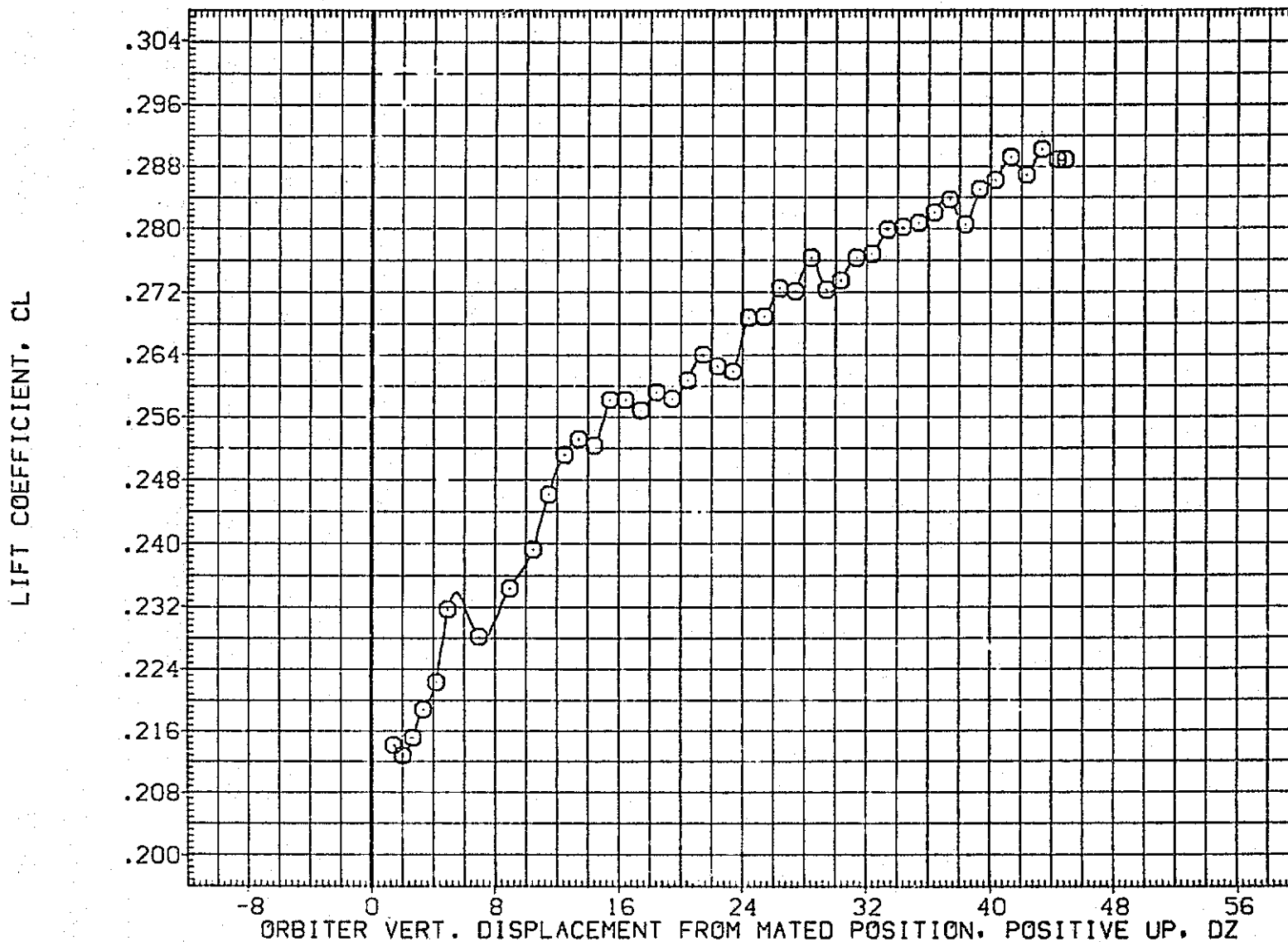


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

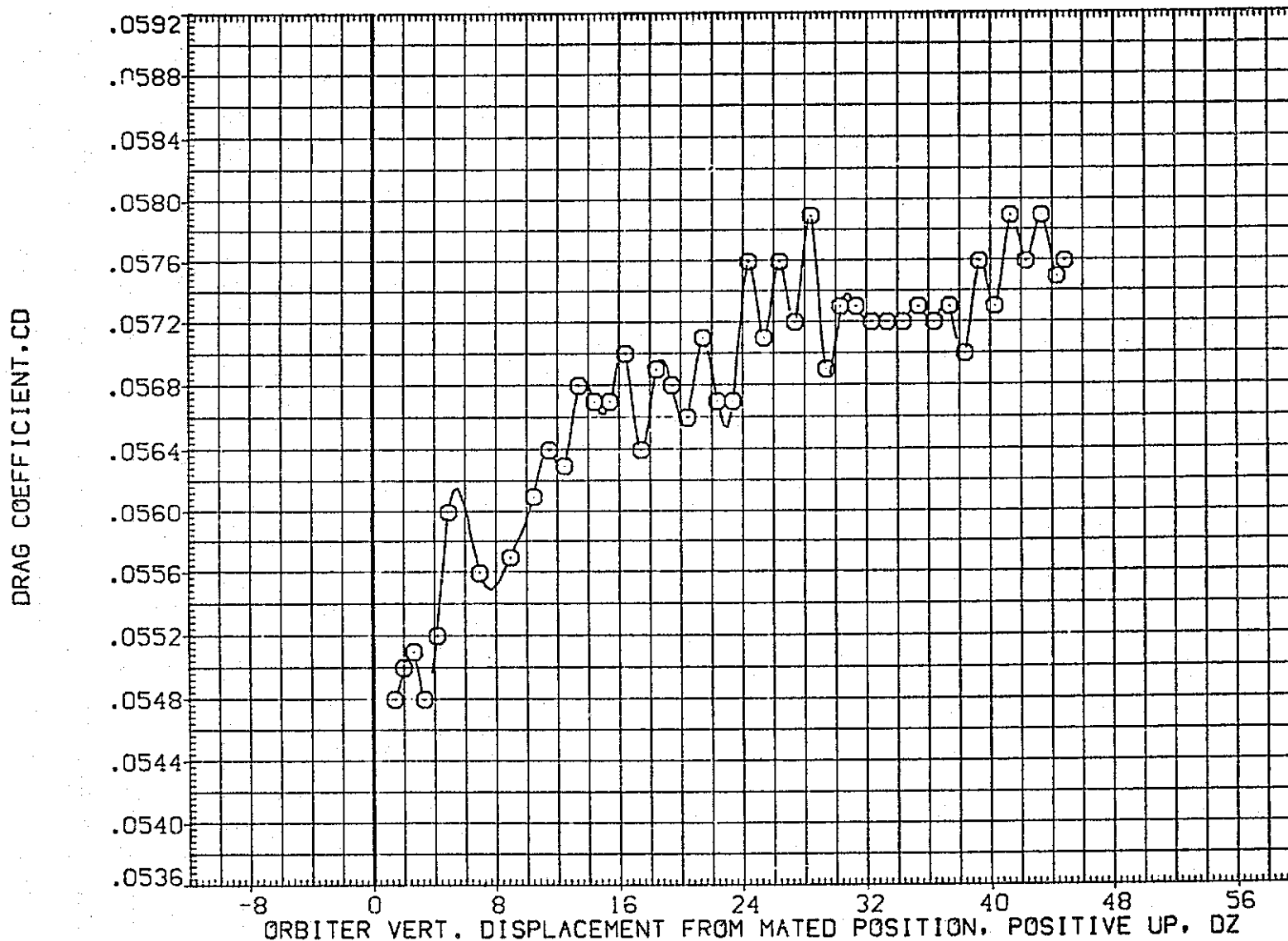


FIG.172 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE068

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE069)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	16.300	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

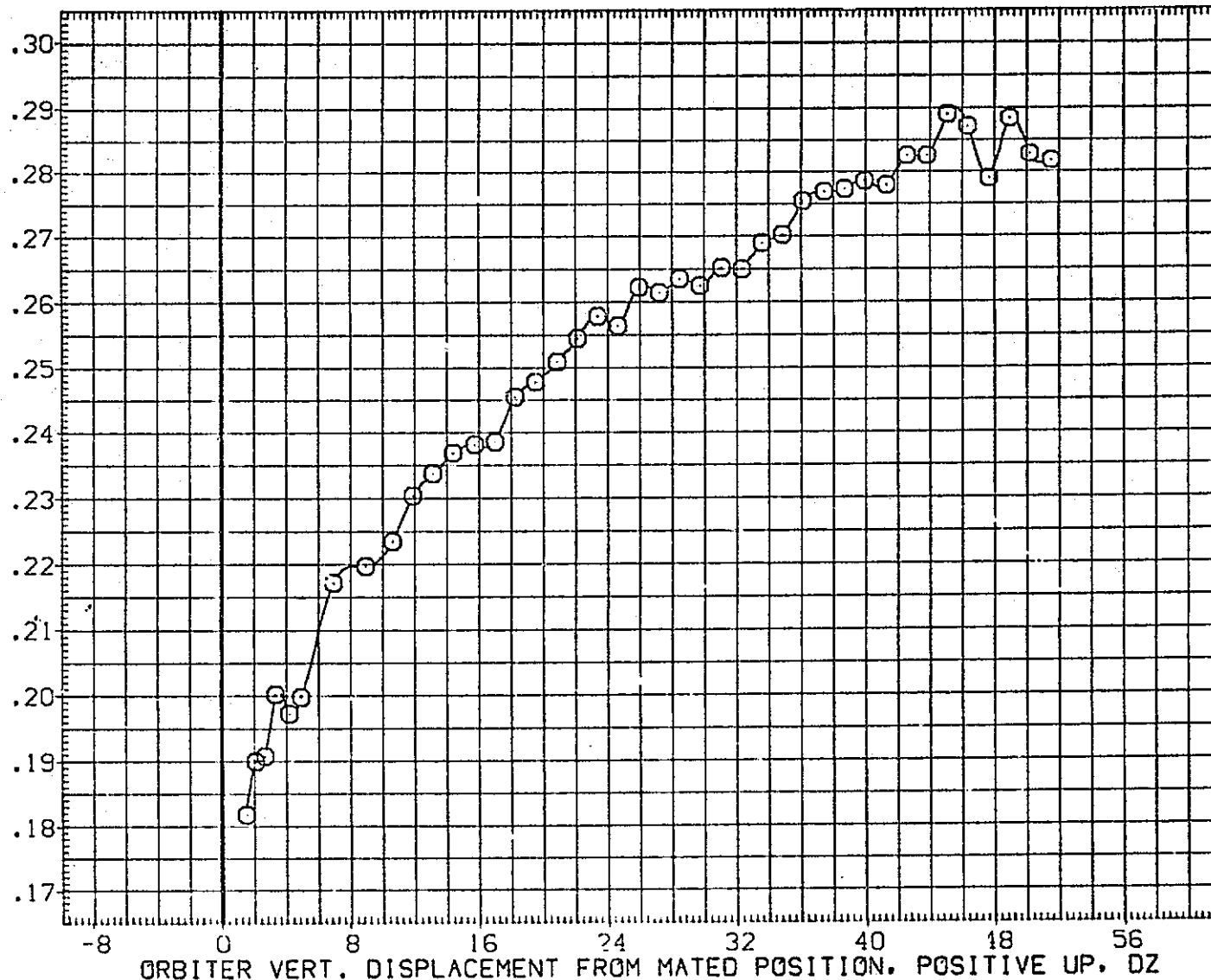


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION													
		ALPHAC	BETAC	ELEVON	DX	IORB	RUDDER	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	IN.	IN. XC	IN. YC	IN. ZC
○	.603	2.000	.000	.000	.000	.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125					
		5.000																	
		16.300																	
		.000																	
		.000																	

PITCHING MOMENT COEFFICIENT, CLM

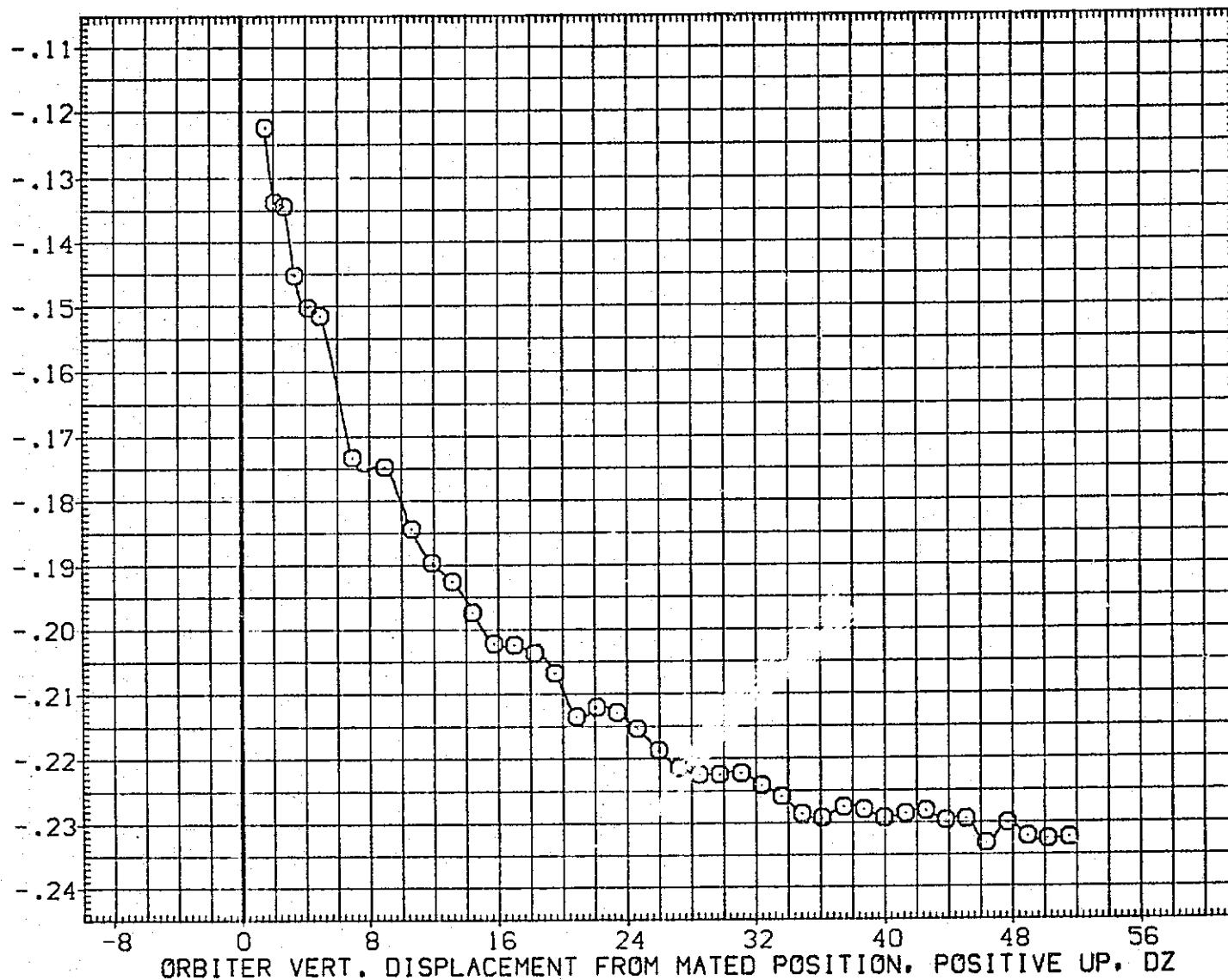


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE069)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

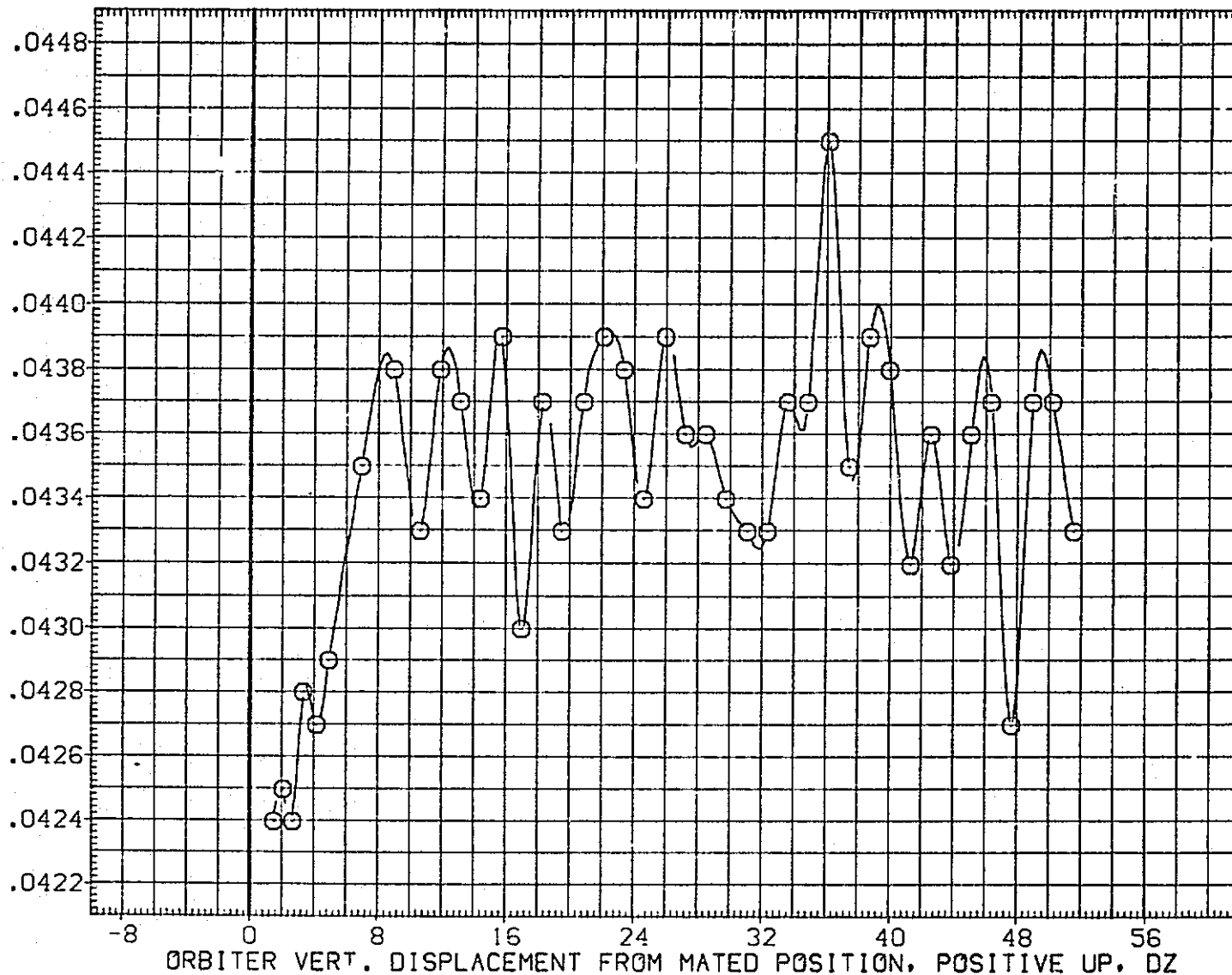


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

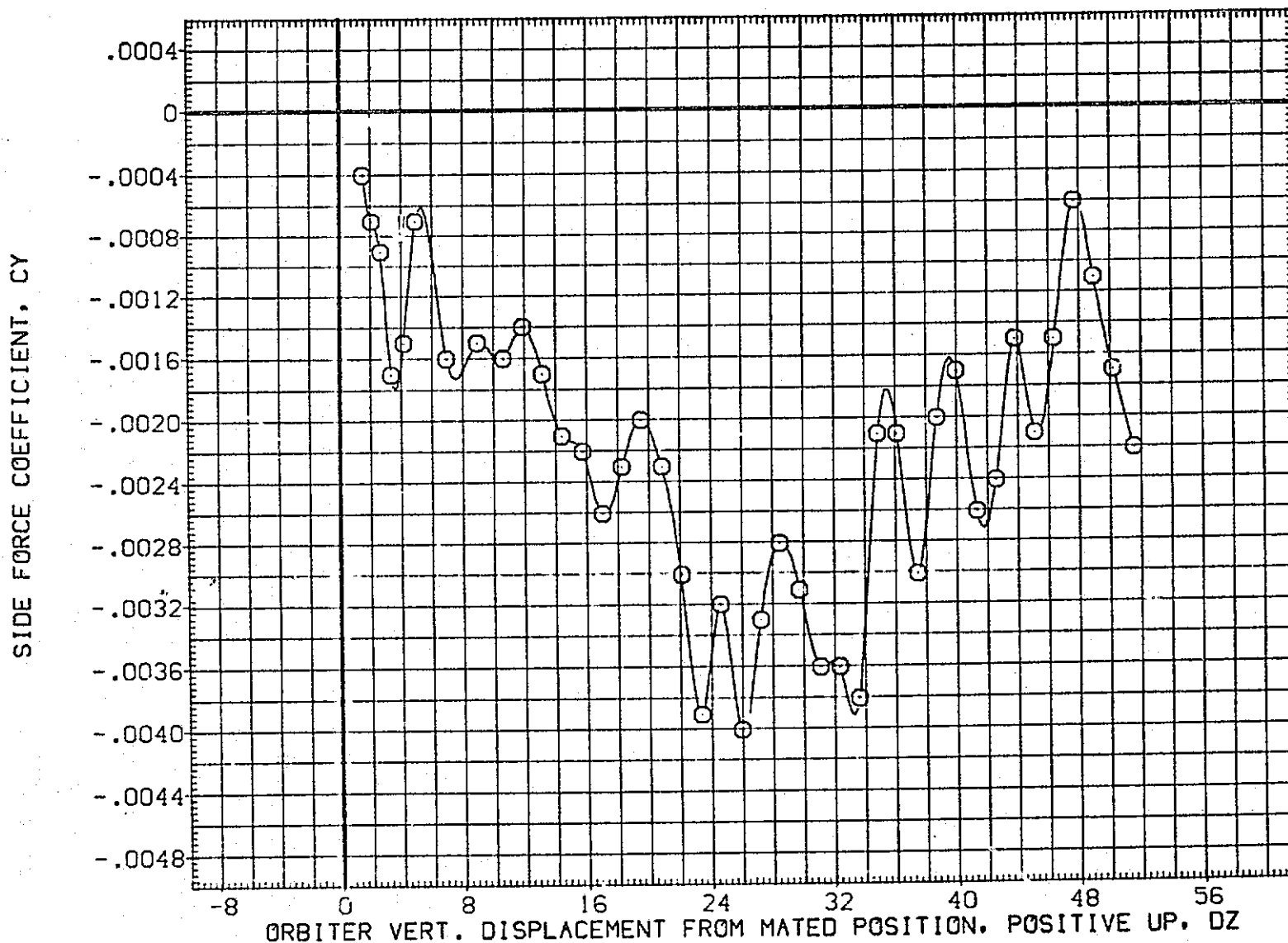


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE069)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BOFLAP	16.300	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

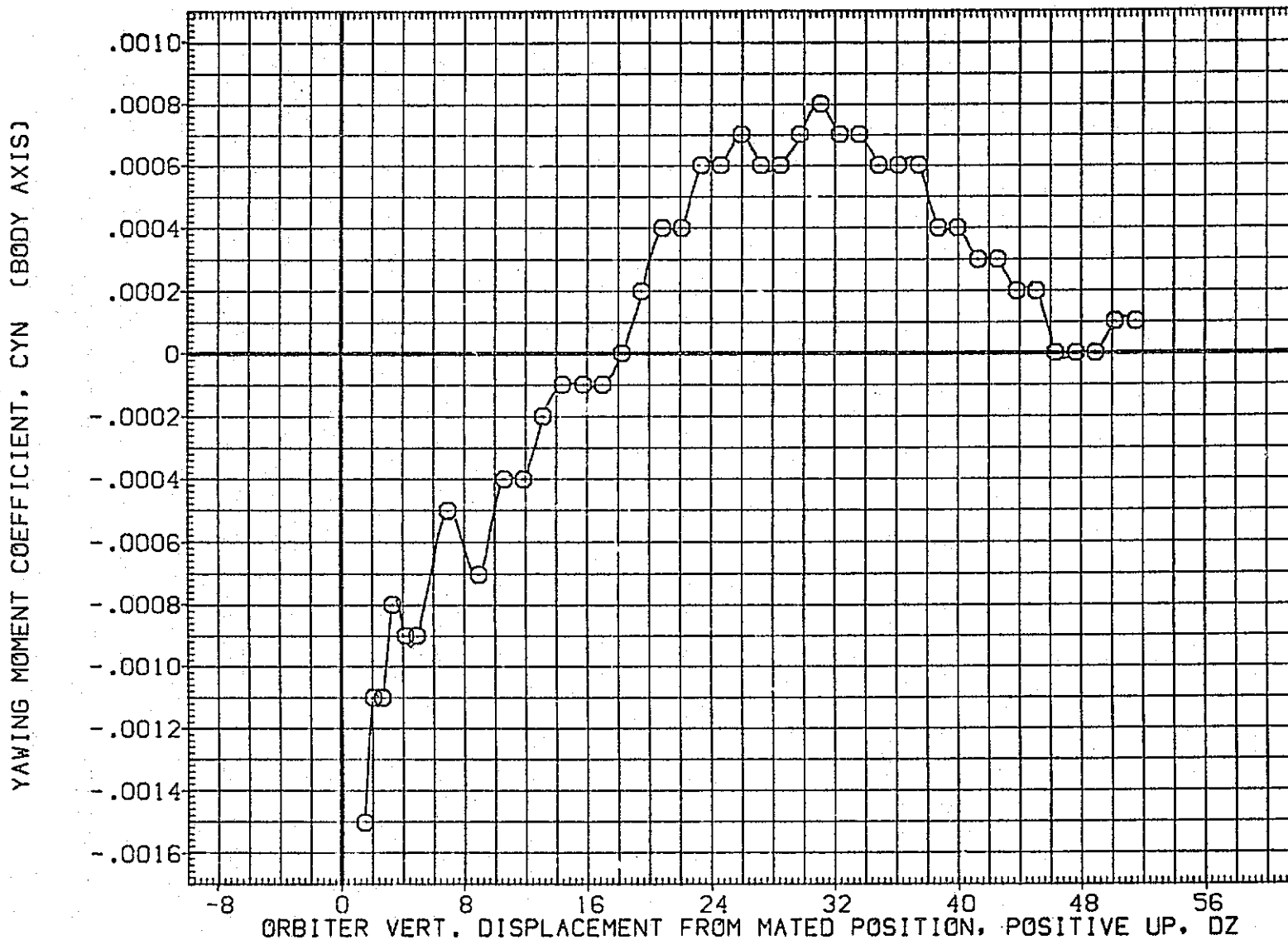


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

SYMBOL

○

MACH

.603

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	16.300	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

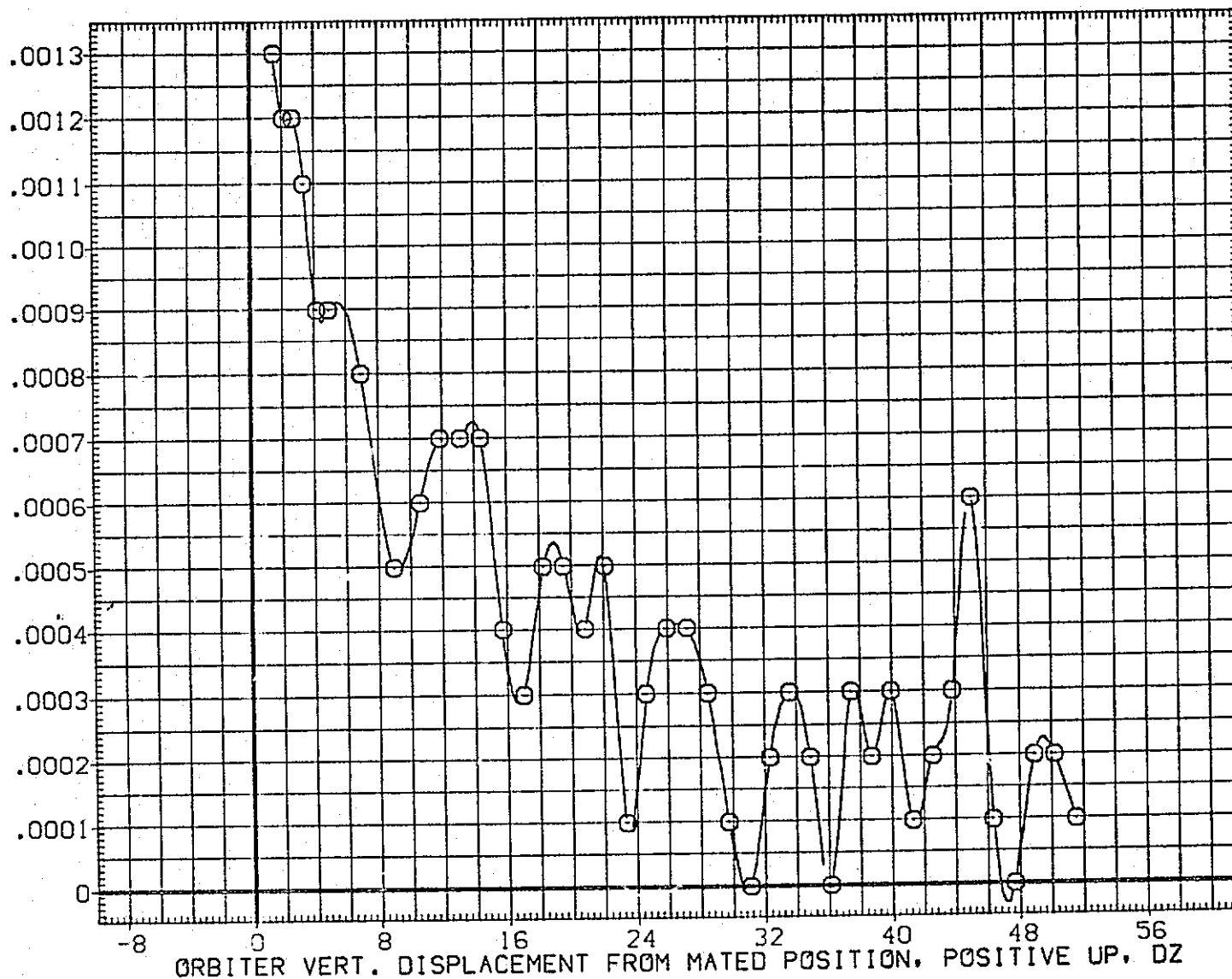


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE069)

SYMBOL



MACH
.603

PARAMETRIC VALUES			
ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	16.300	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

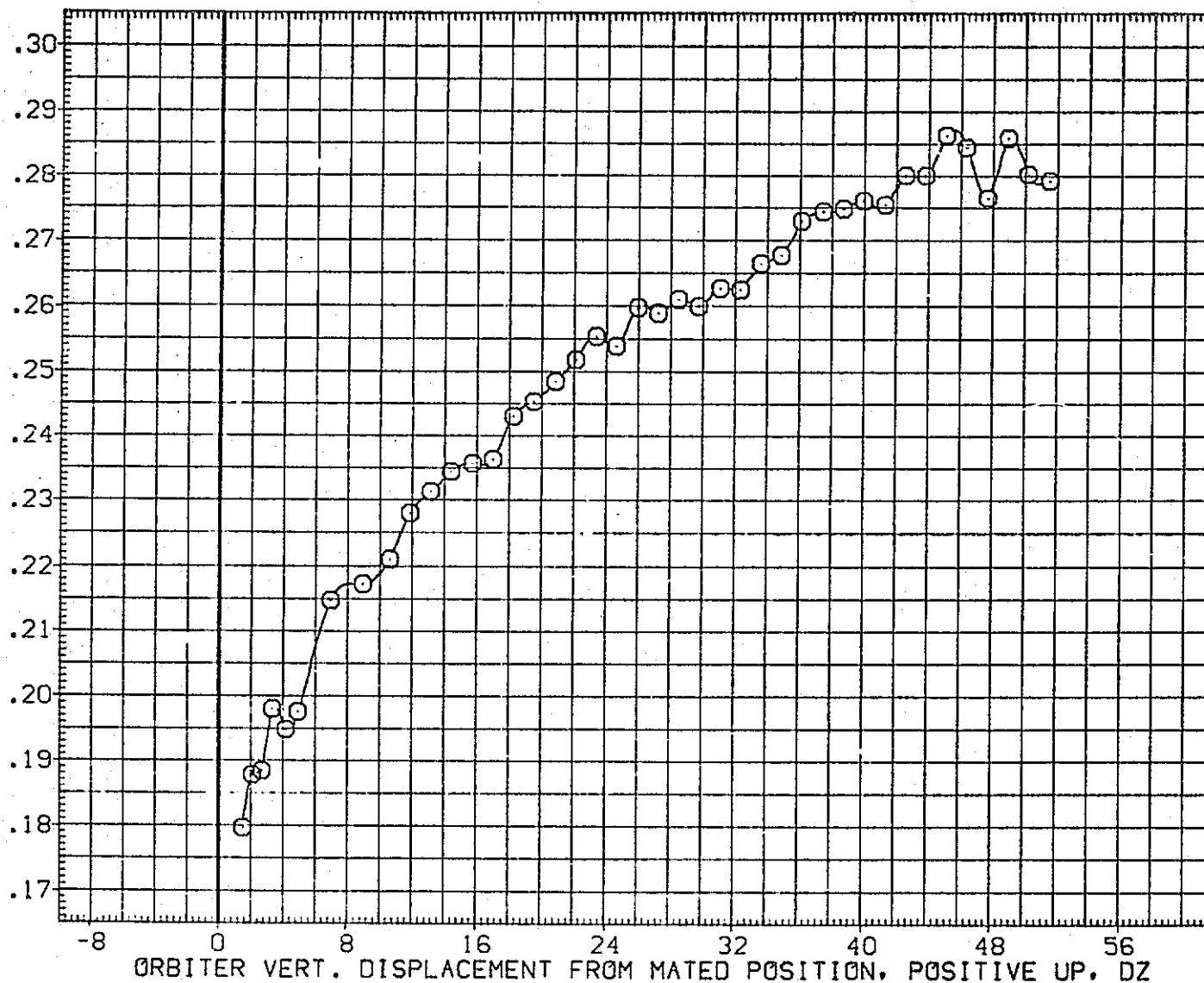


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

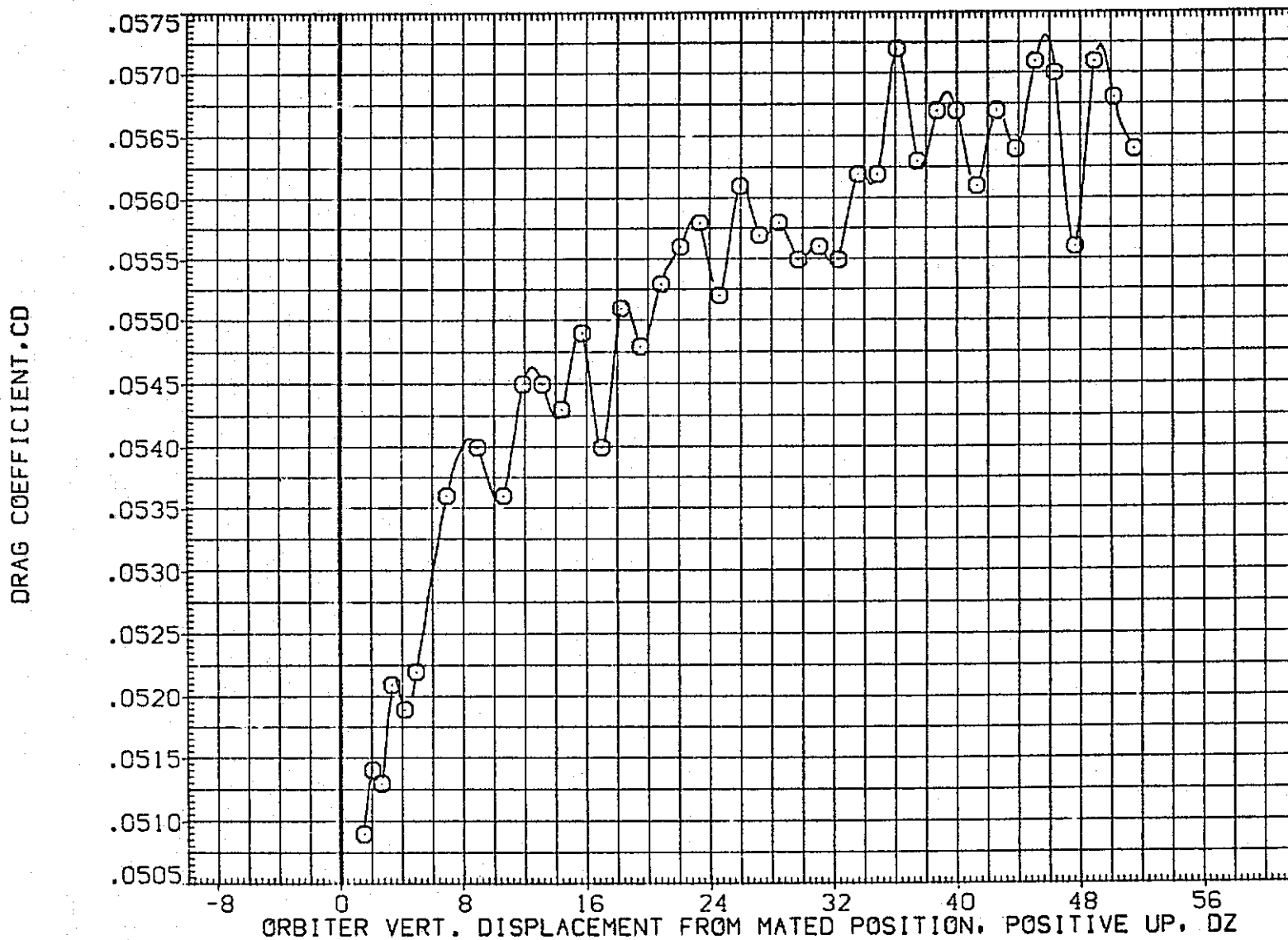


FIG.173 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE069

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE070)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BOFLAP	16.300	OX	.000
		OY	.000	IORB	8.000
		BETAQ	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

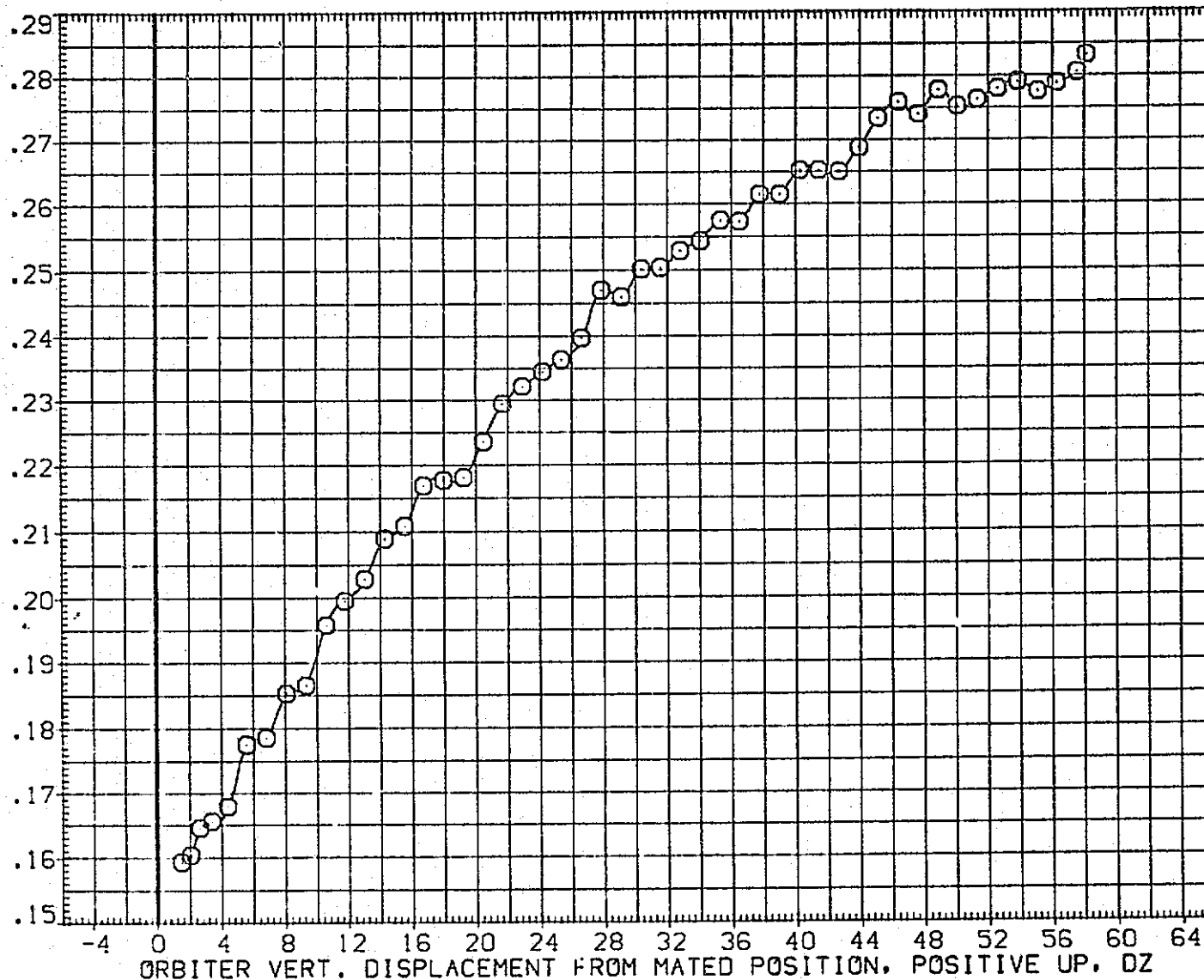


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETAQ=0, RFE070

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

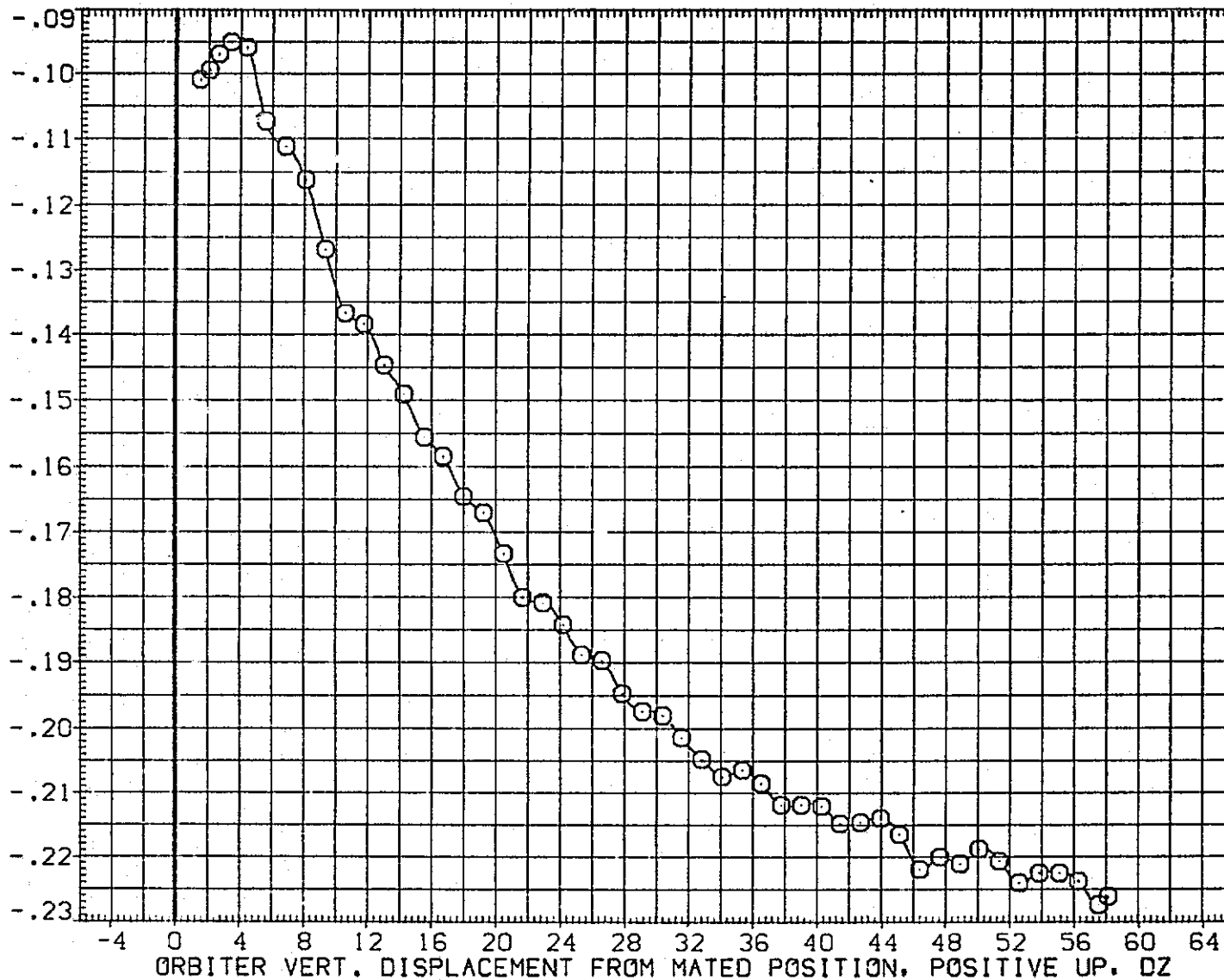


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE070)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

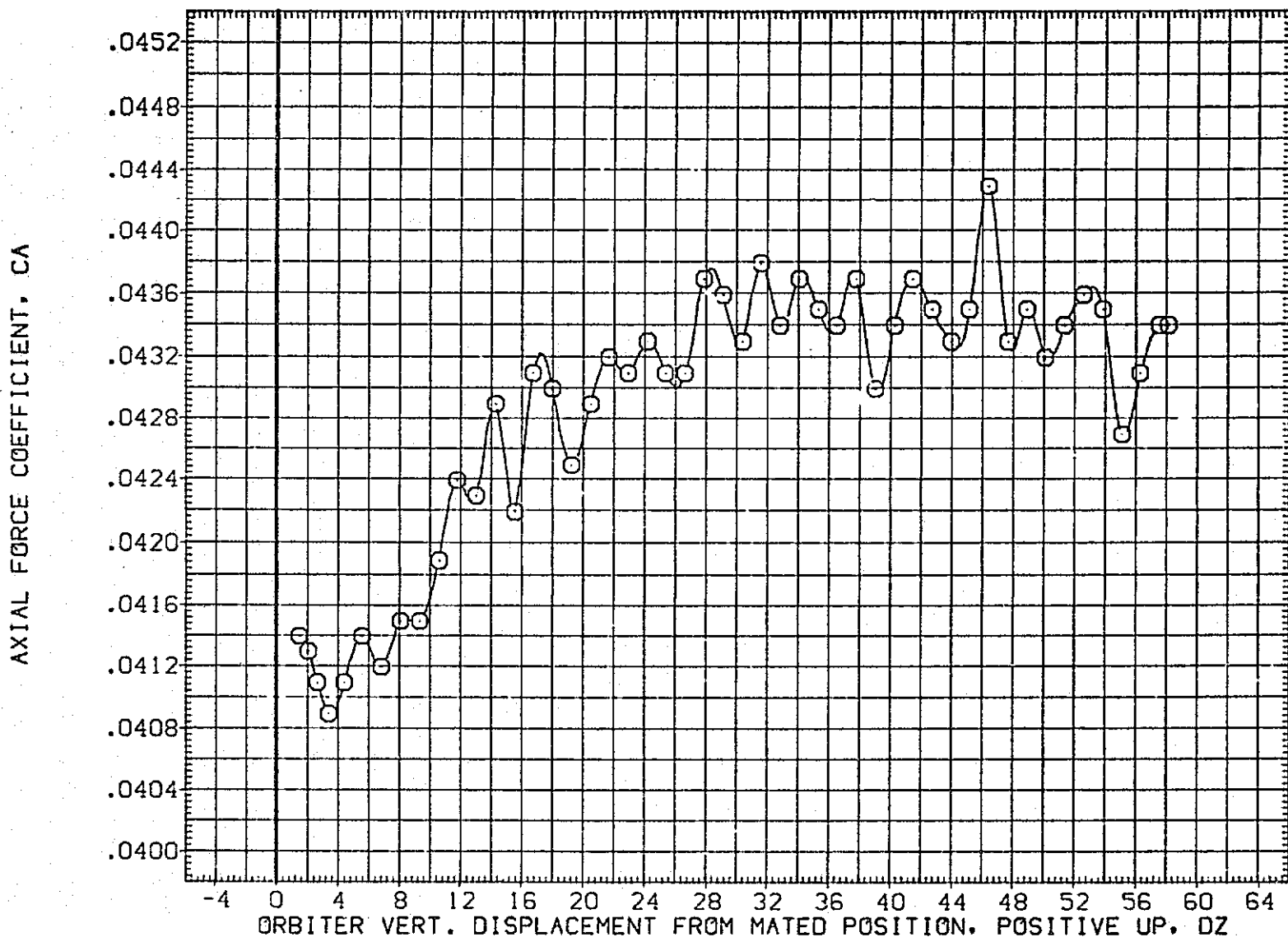


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

SYMBOL

MACH

○

.597

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BOFLAP	16.300	DX	.000
DY	.000	IORB	8.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

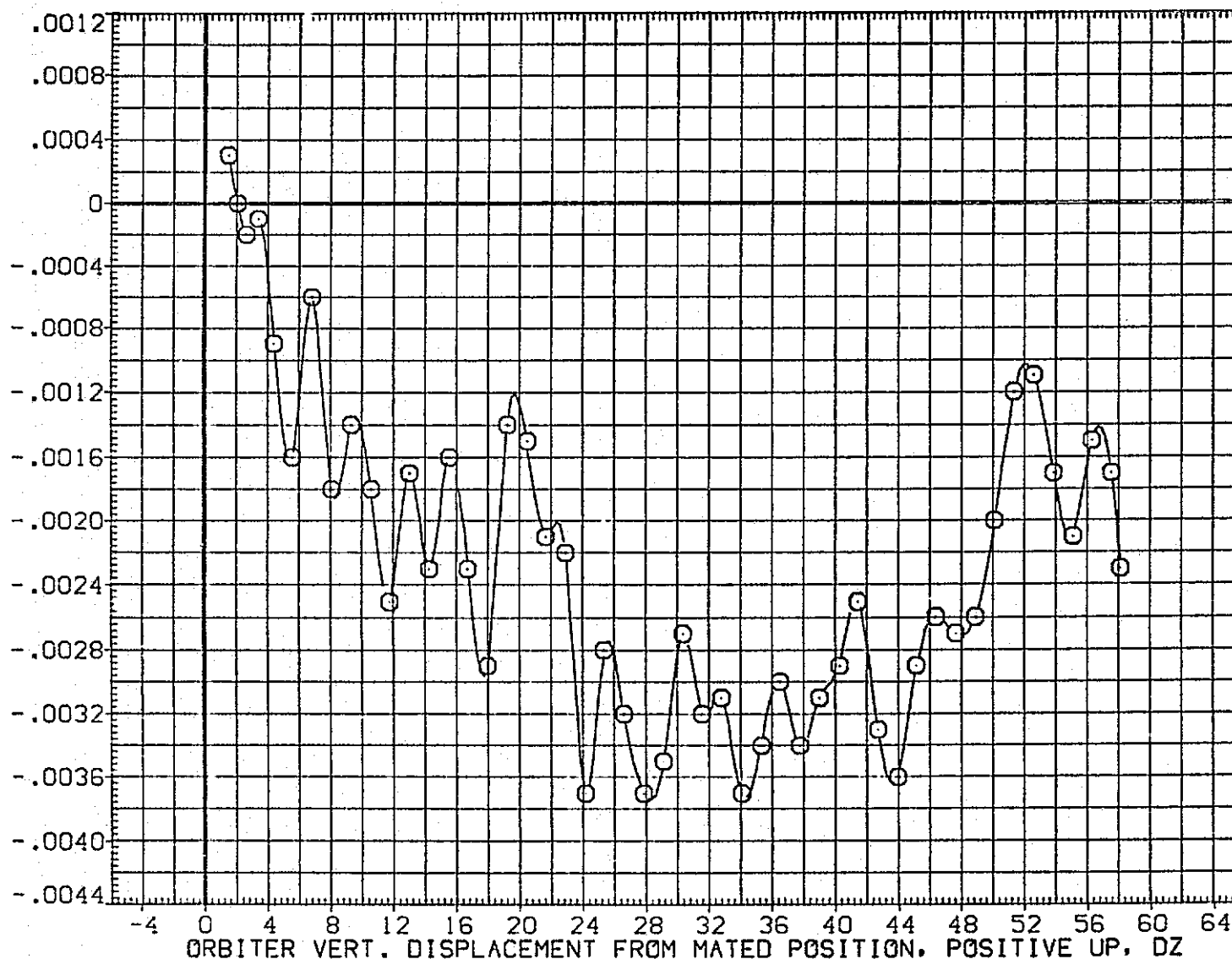


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE070)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION									
		ALPHAC	BETAC	ELEVON	DX	SREF	LREF	BREF	SG.FT.	IN.	IN.	IN.	IN.	IN.	IN.
○	.597	2.000	.000	.000	.000	5500.0000	327.7800	2348.0400		50.FT.					
		16.300	.000	.000	.000			1339.9000							
		.000	.000	.000	.000			.0000							
		.000	.000	.000	.000			190.7500							
								.0125							

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

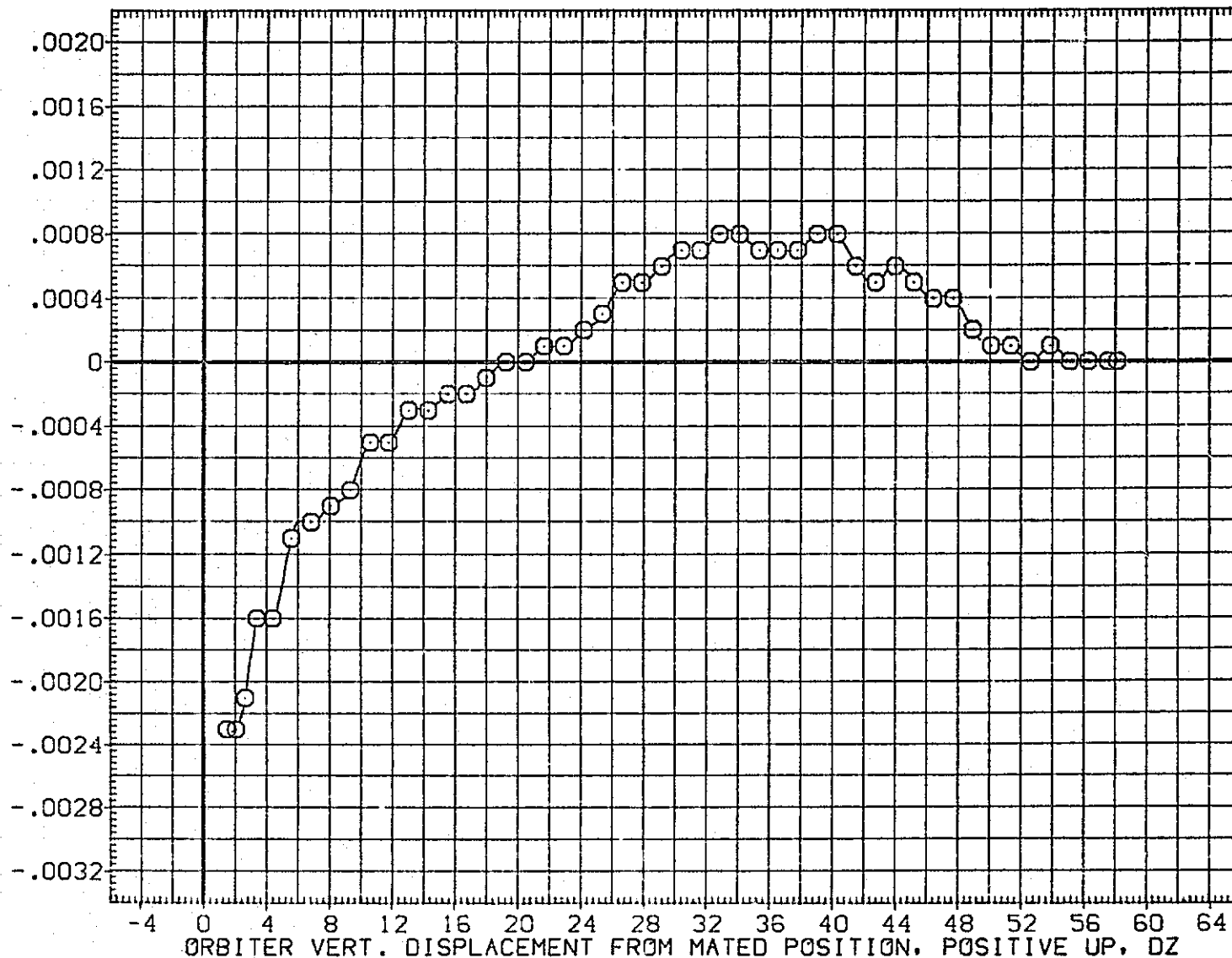


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		SDFLAP	16.300	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

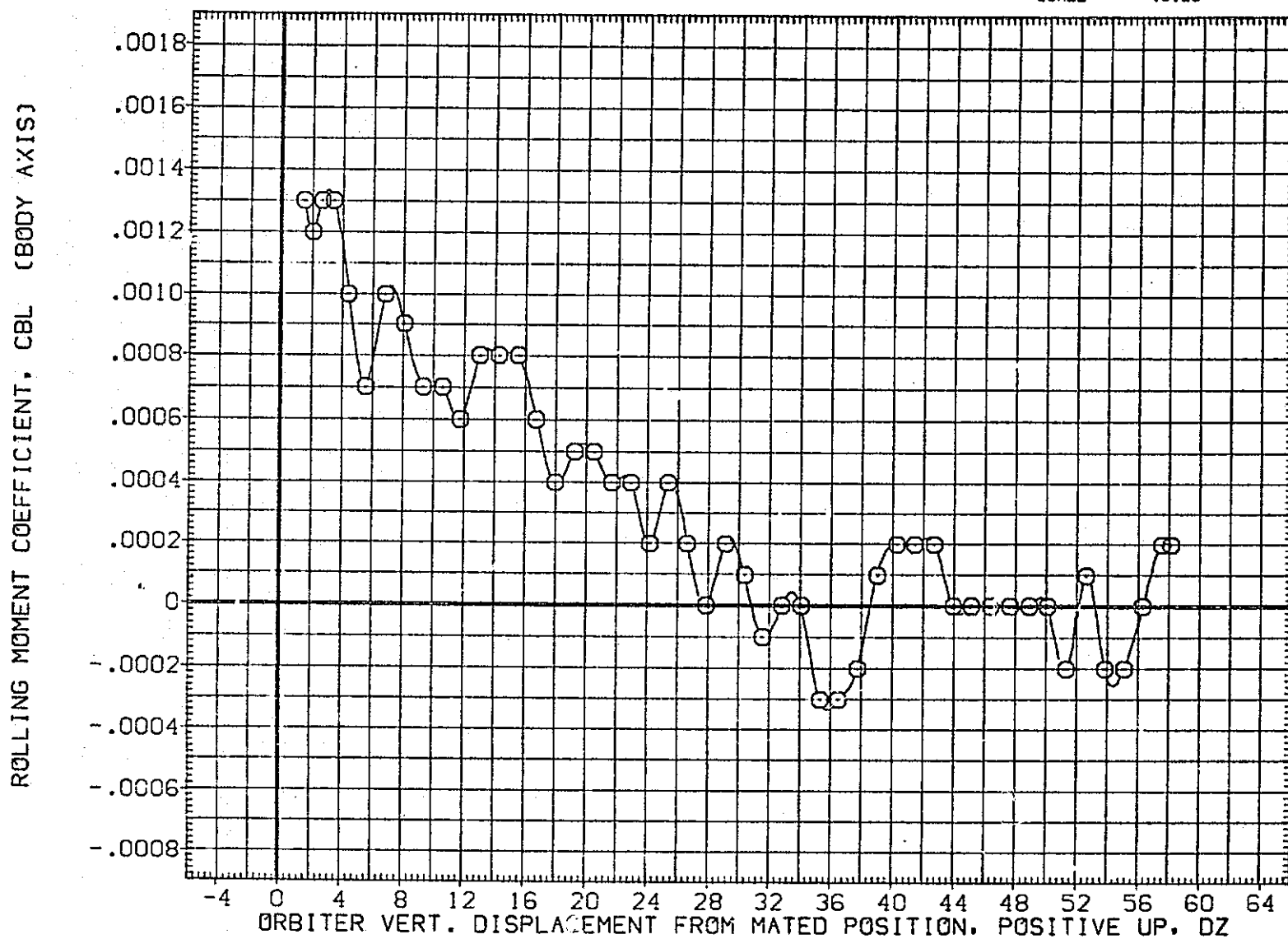


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE070)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.77	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	OX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

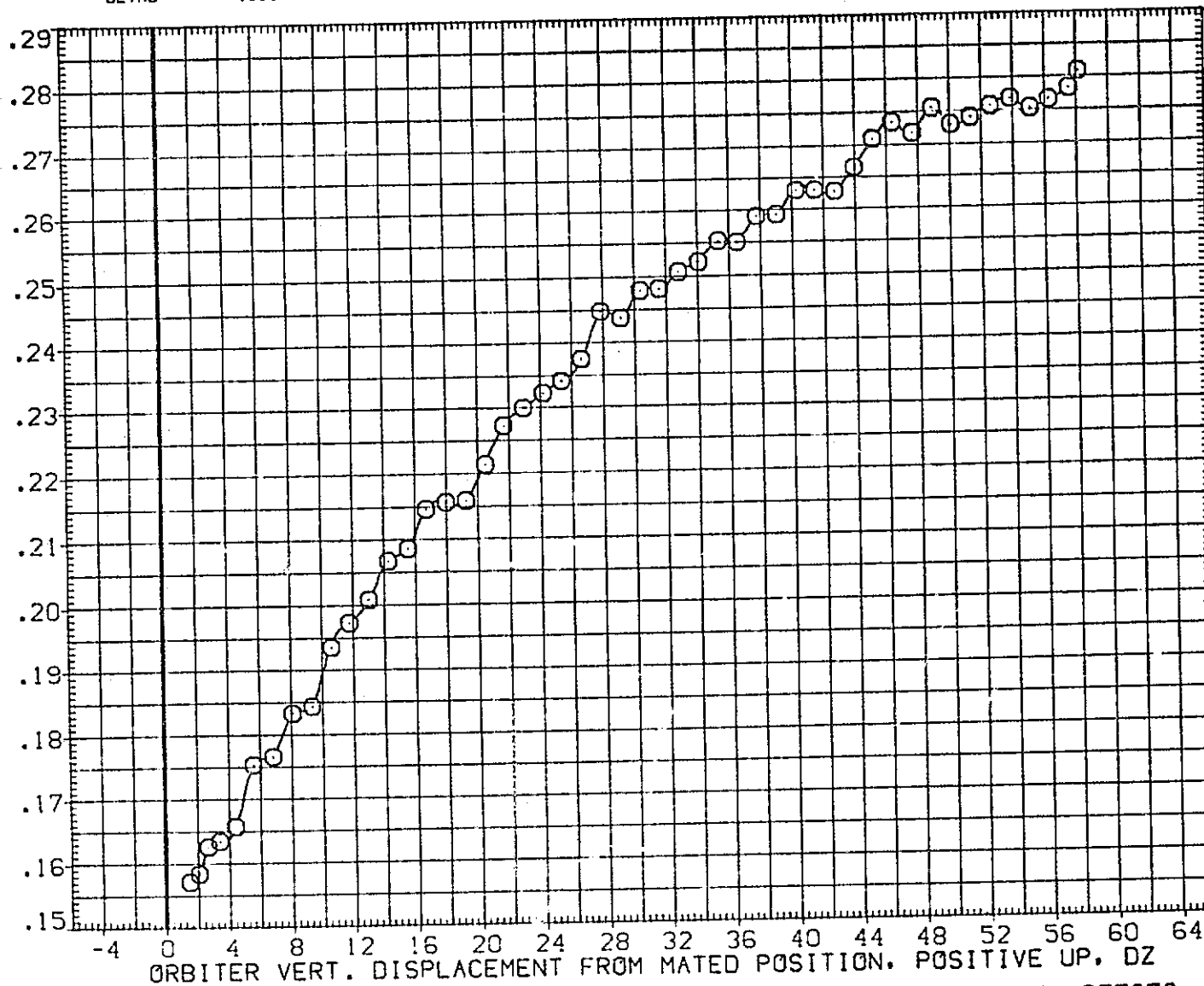


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	16.300	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

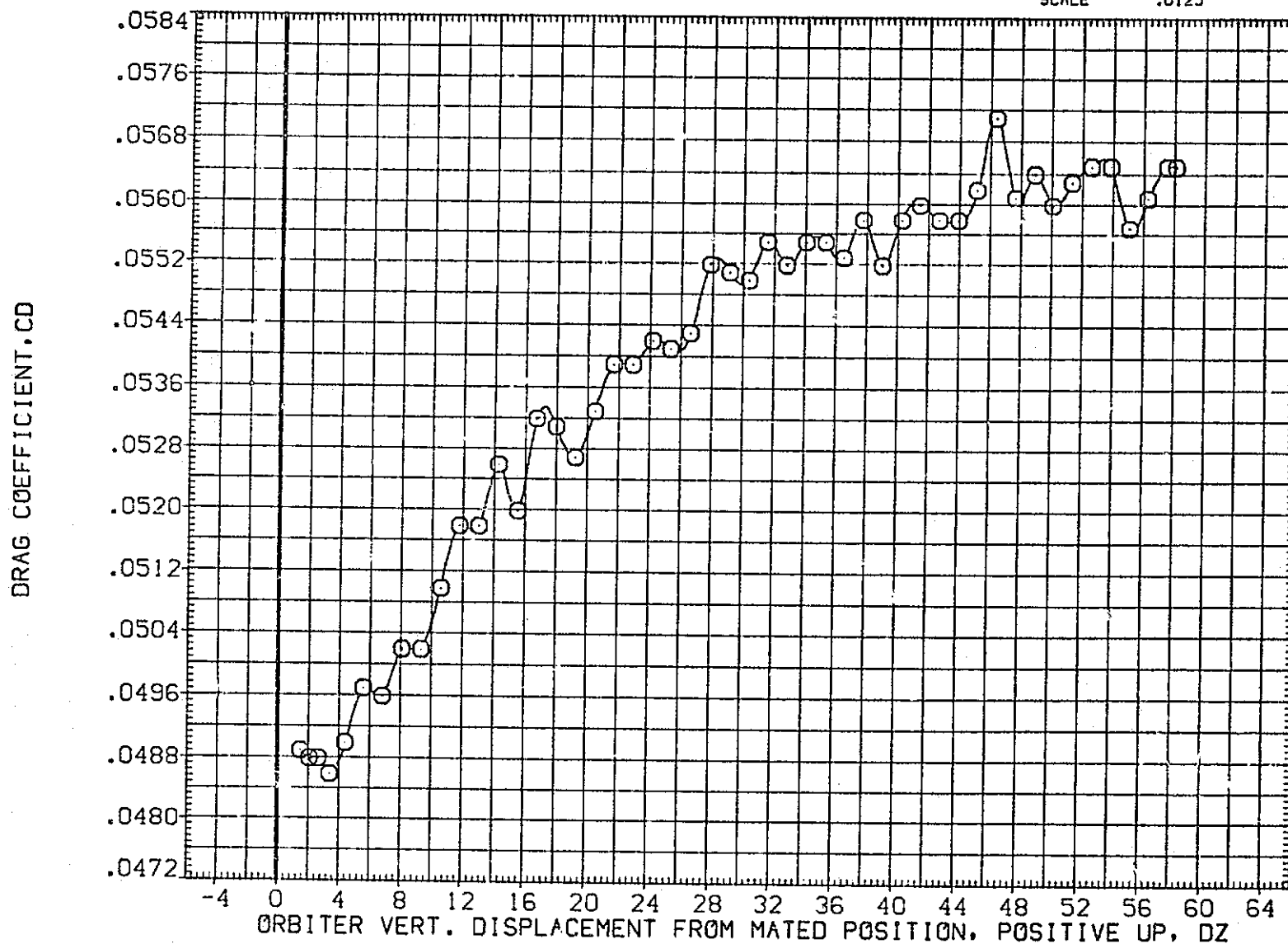


FIG.174 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE070

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE071)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.600	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	5.000	DX	.000
	DY	.000	IORB	4.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

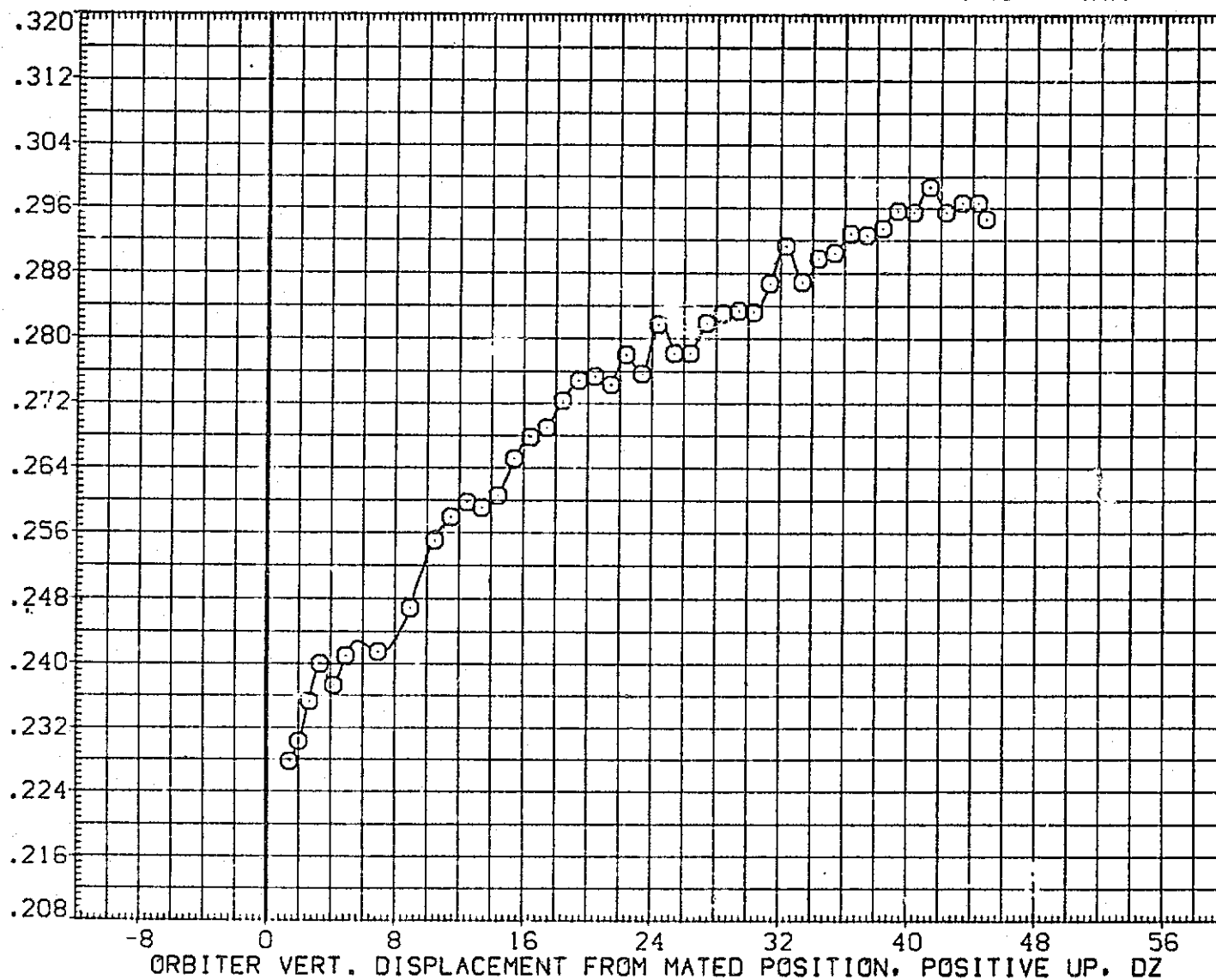


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

SYMBOL	MACH.	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

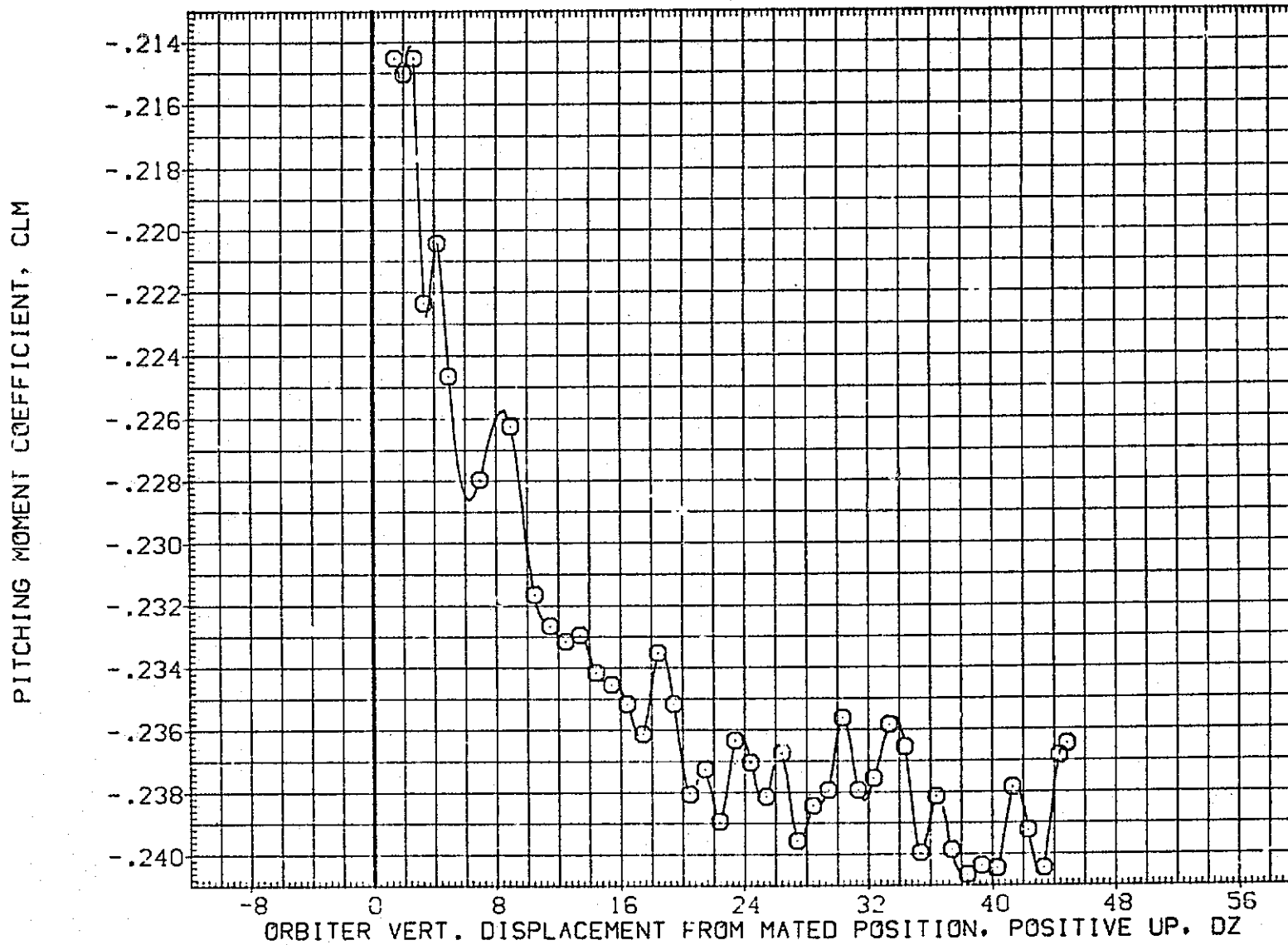


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE071)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

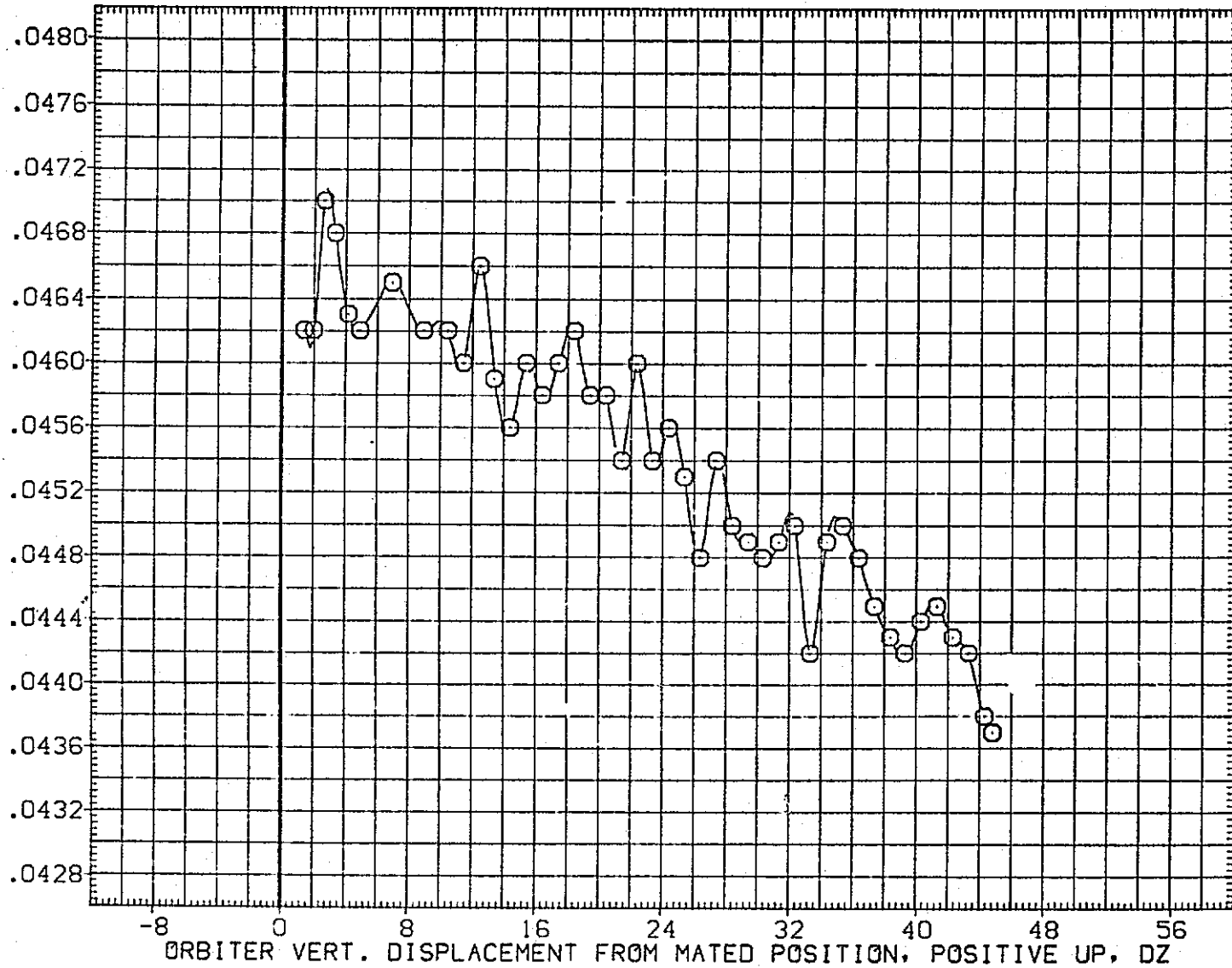


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

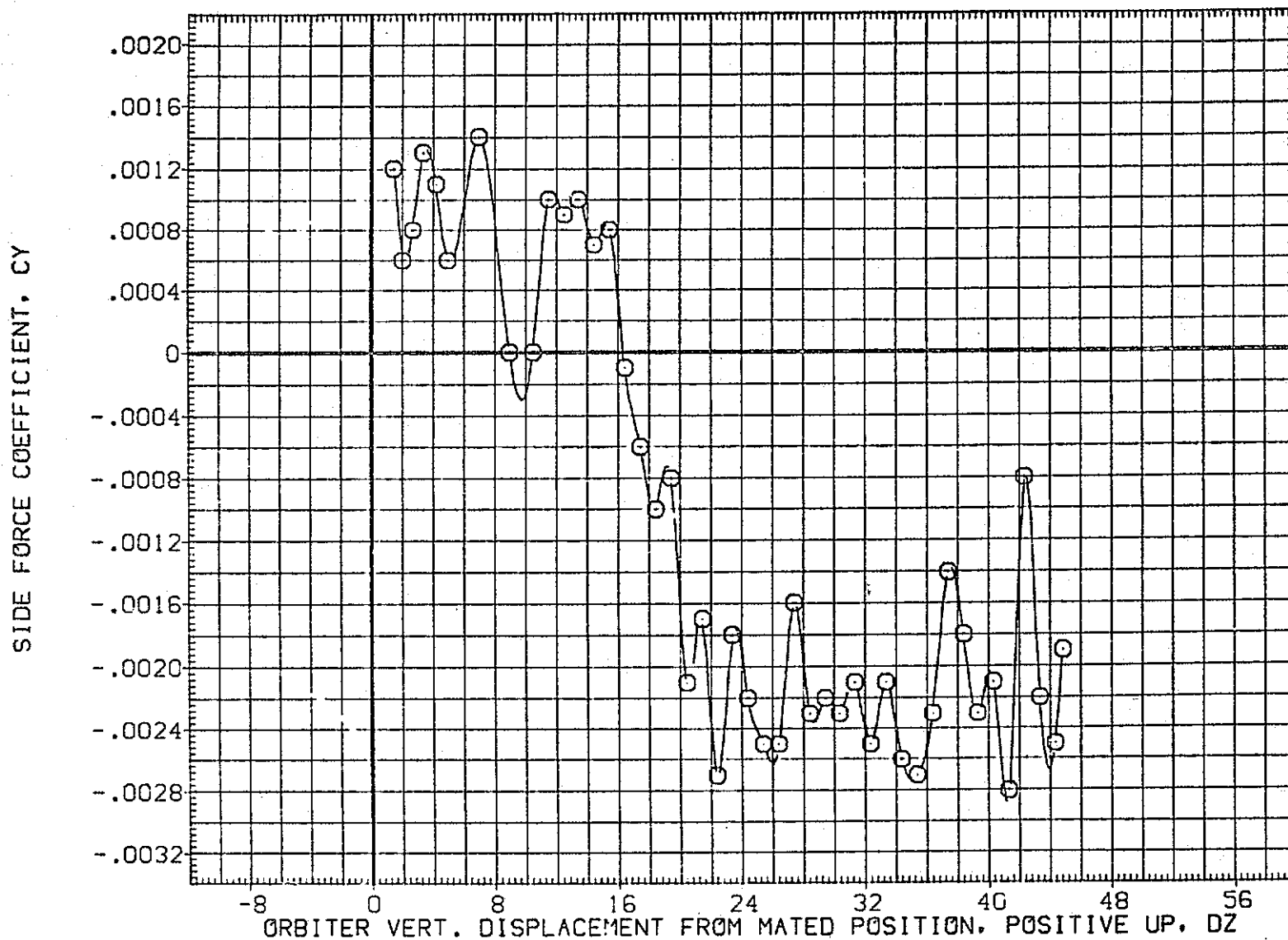


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE071)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

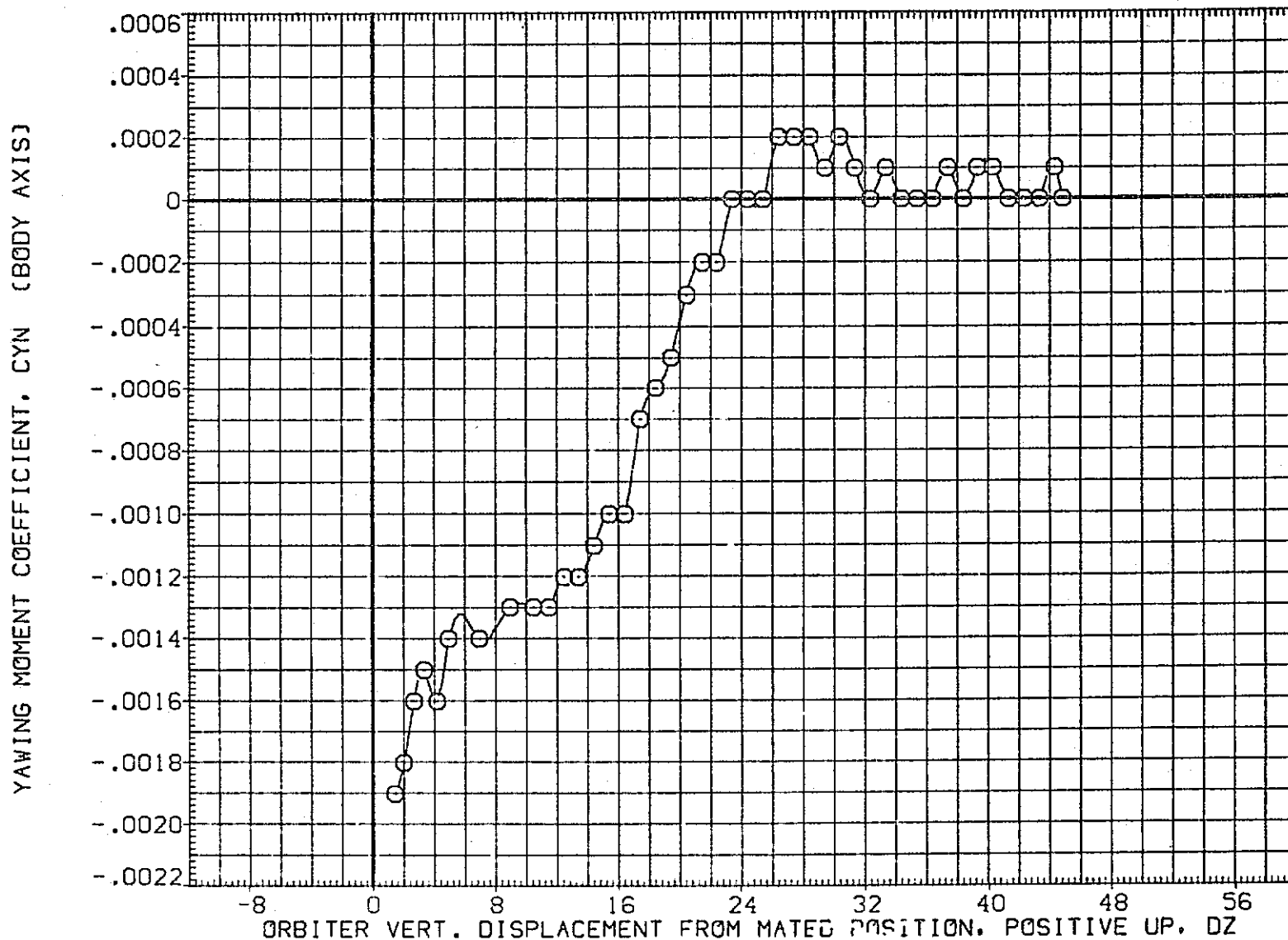


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

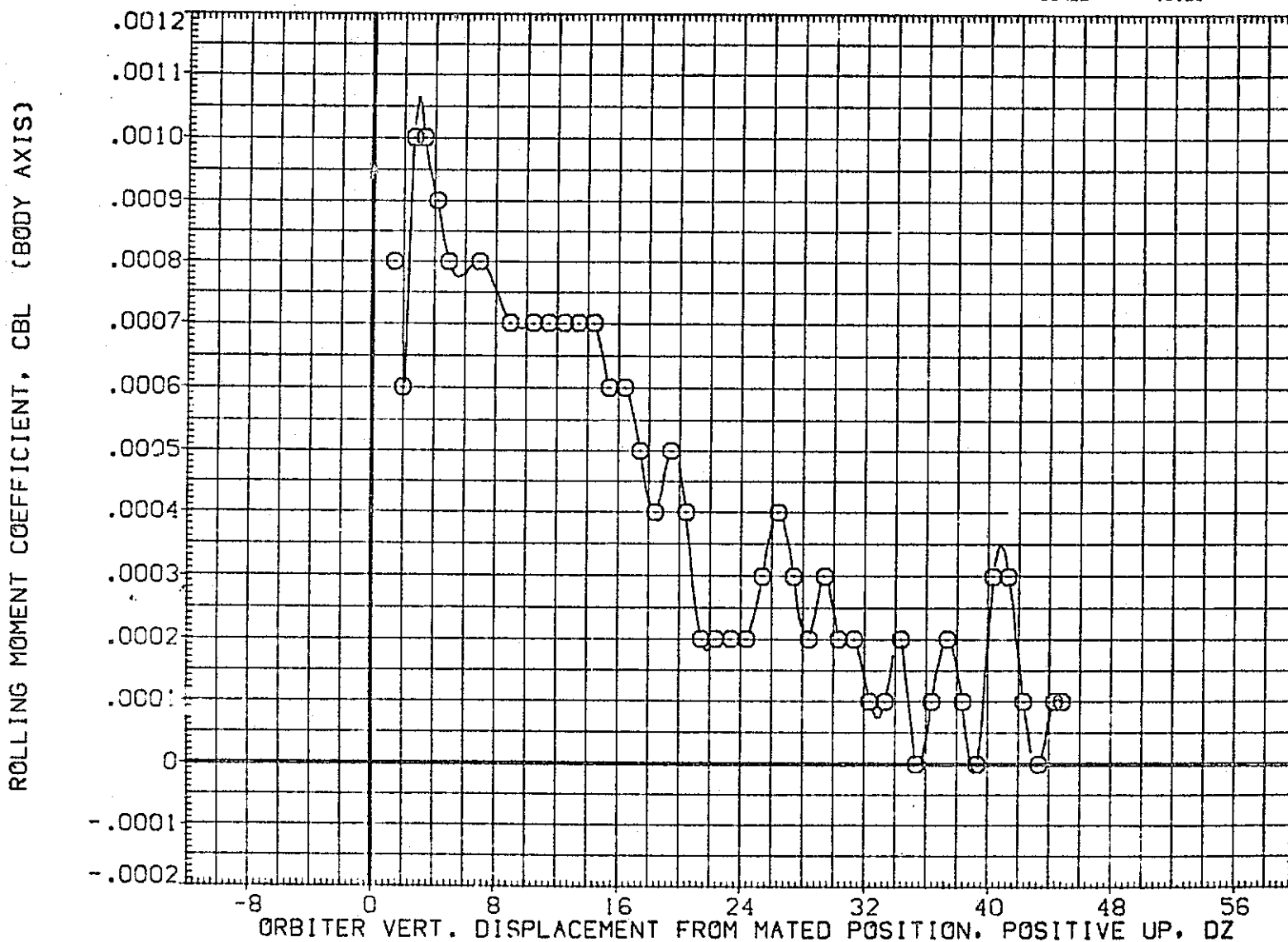


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE071)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.600	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	5.000	DX	.000
	DY	.000	IORB	4.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

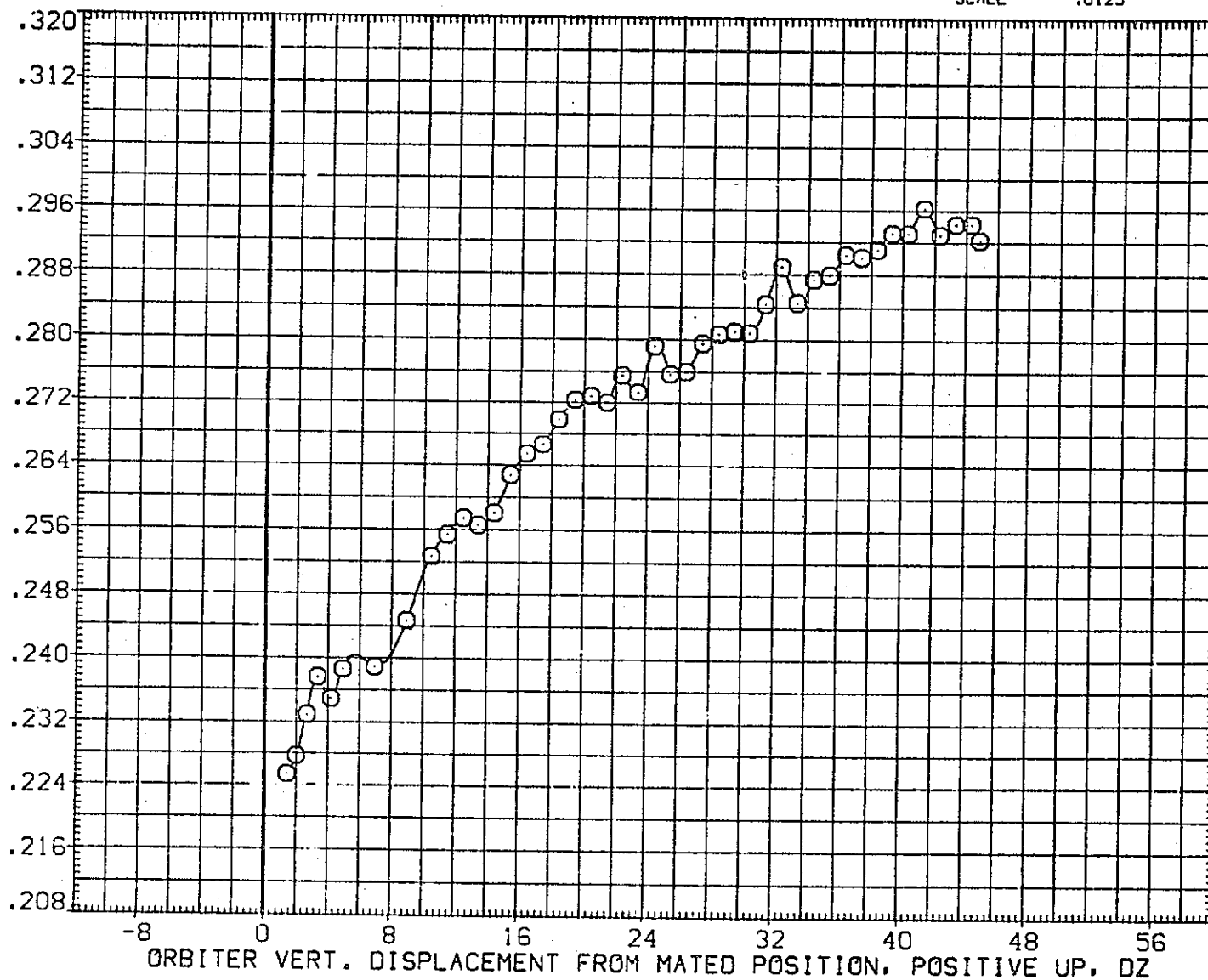


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

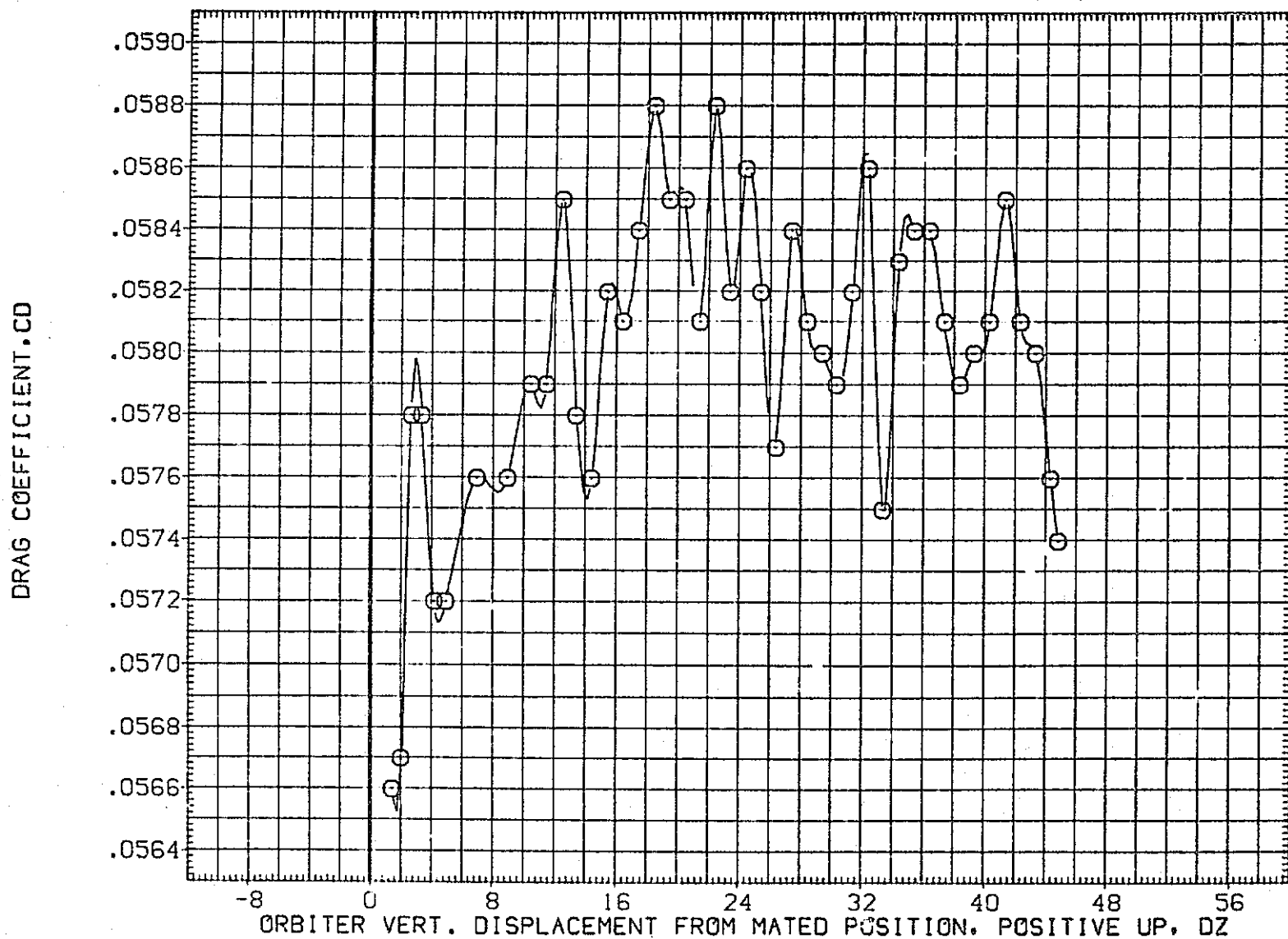


FIG.175 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE071

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE072)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.598	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

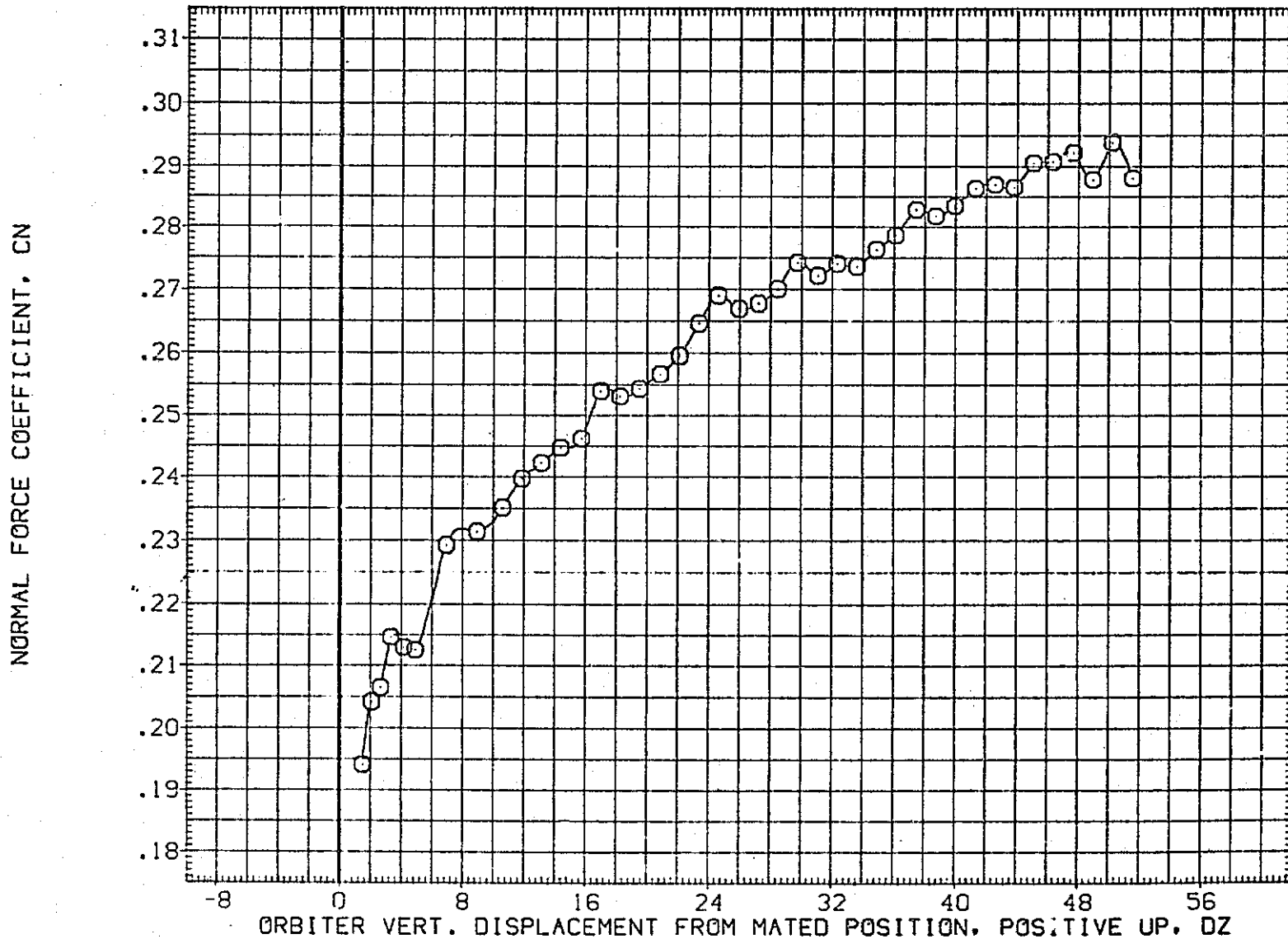


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

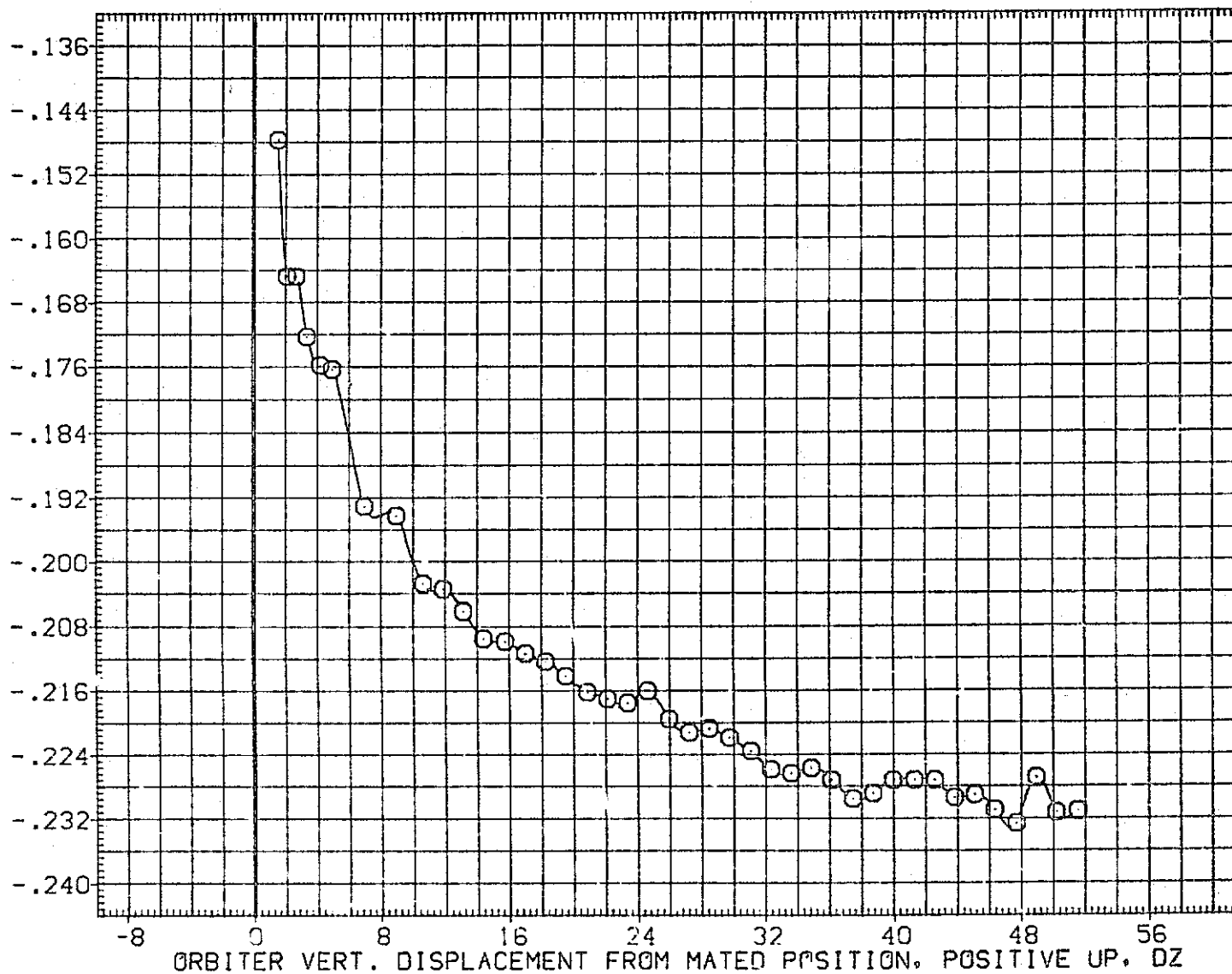


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE072)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YMRP	1339.9000	IN. YC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

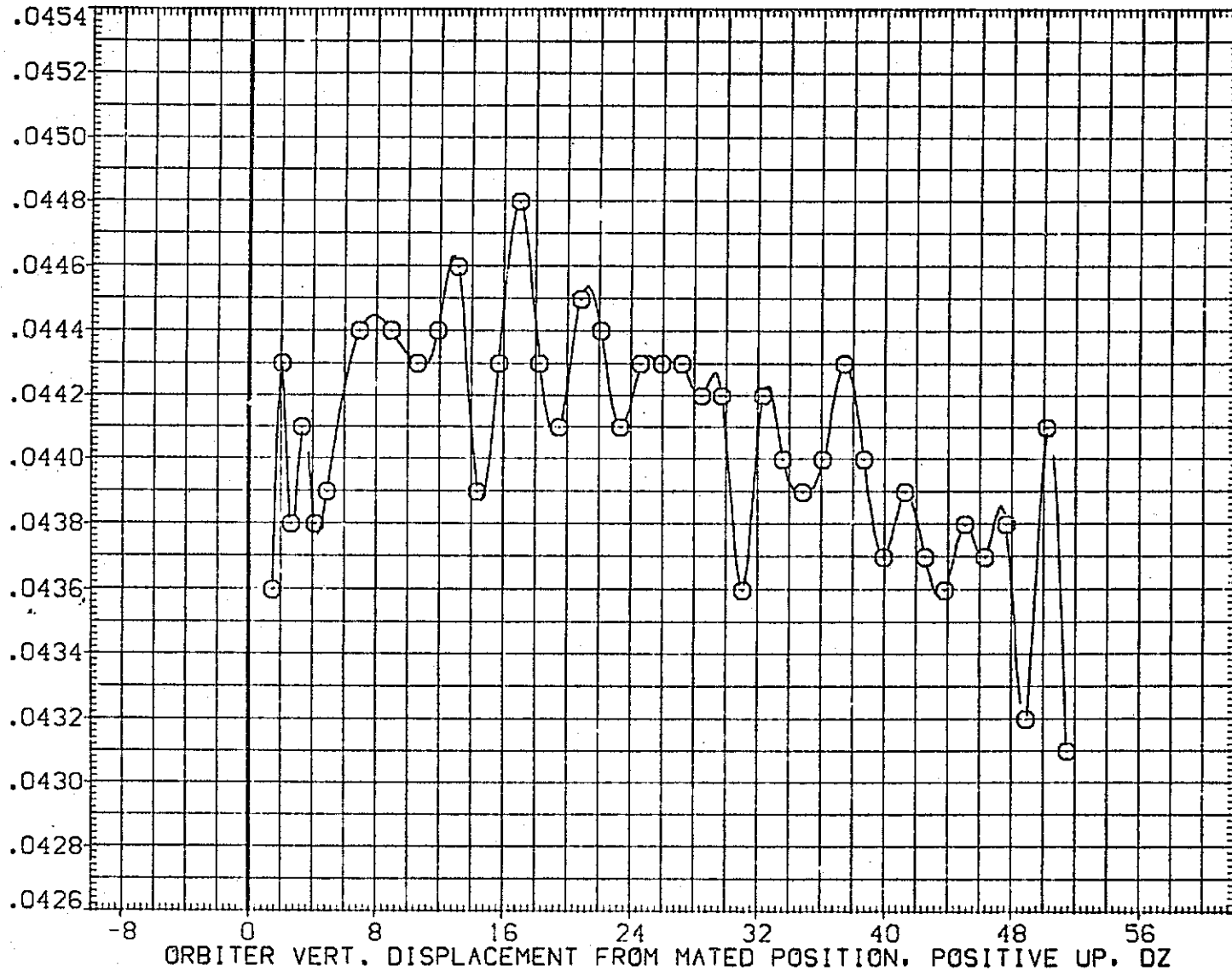


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

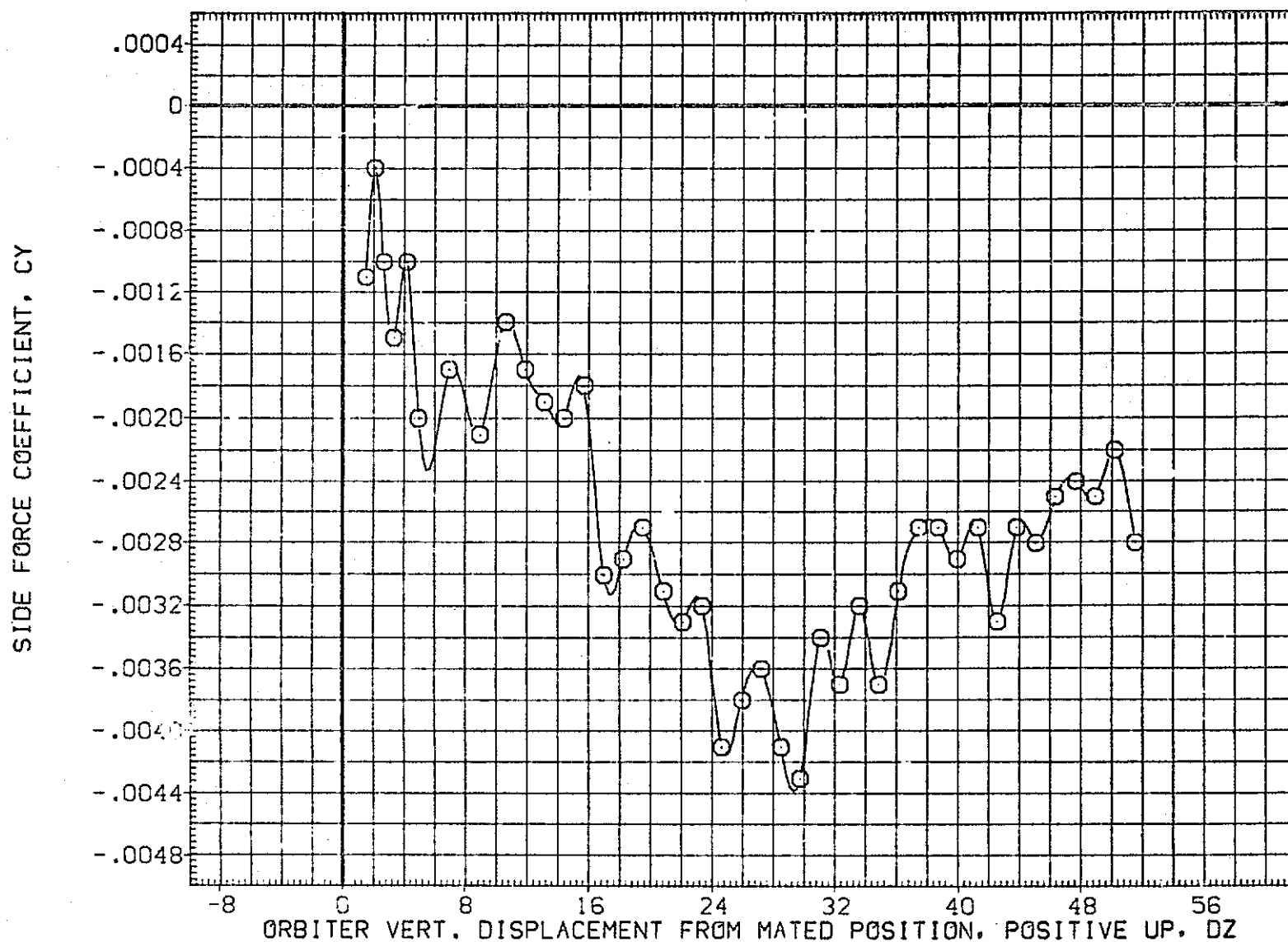


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE072)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.598	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	



FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		SDFLAP	5.000	DX	.000
		BY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO
LREF	327.7800	IN
BREF	2348.0400	IN
XMRP	1339.9000	IN
YMRP	.0000	IN
ZMRP	190.7500	IN
SCALE	.0125	IN

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

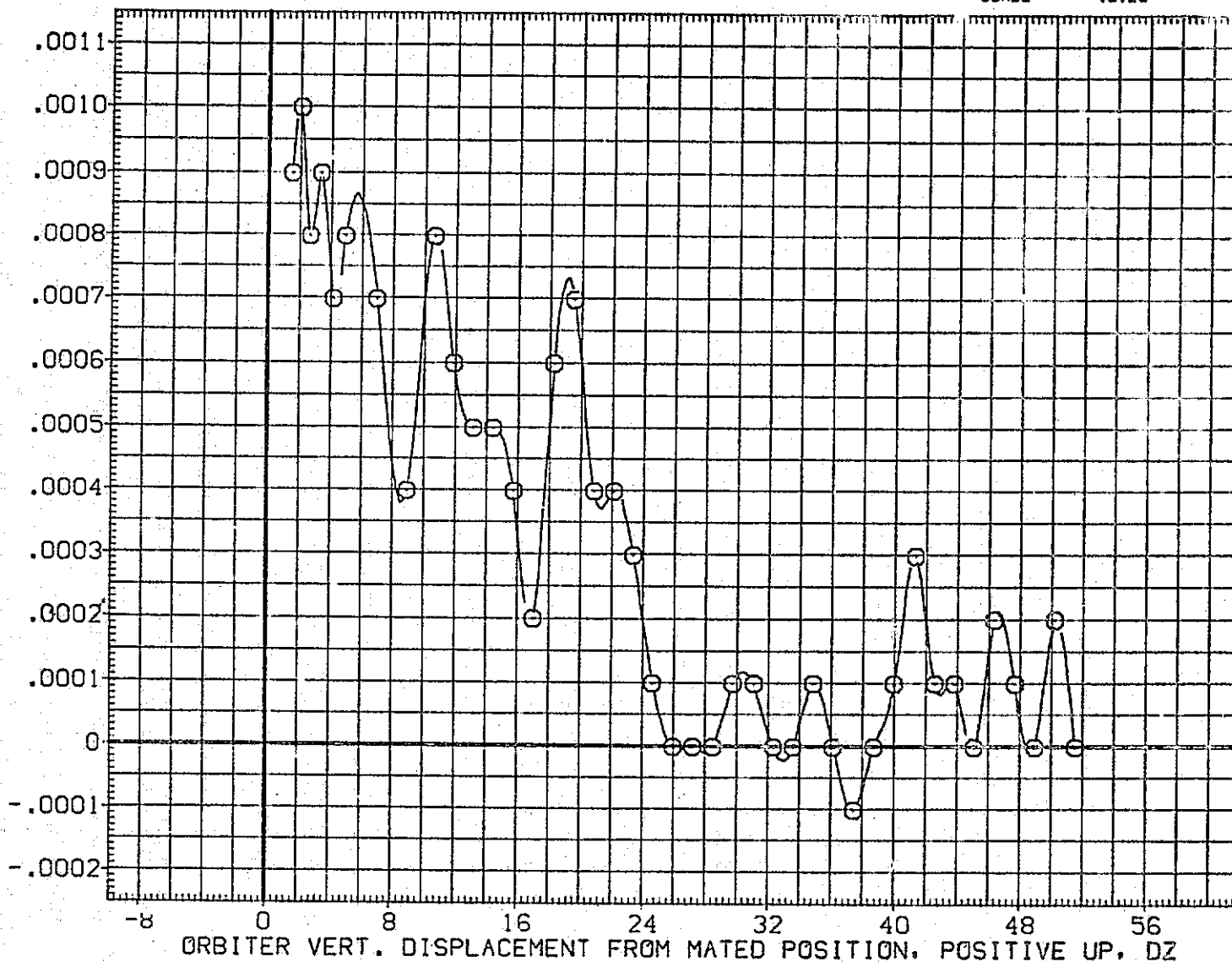


FIG. 176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE072)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. YC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

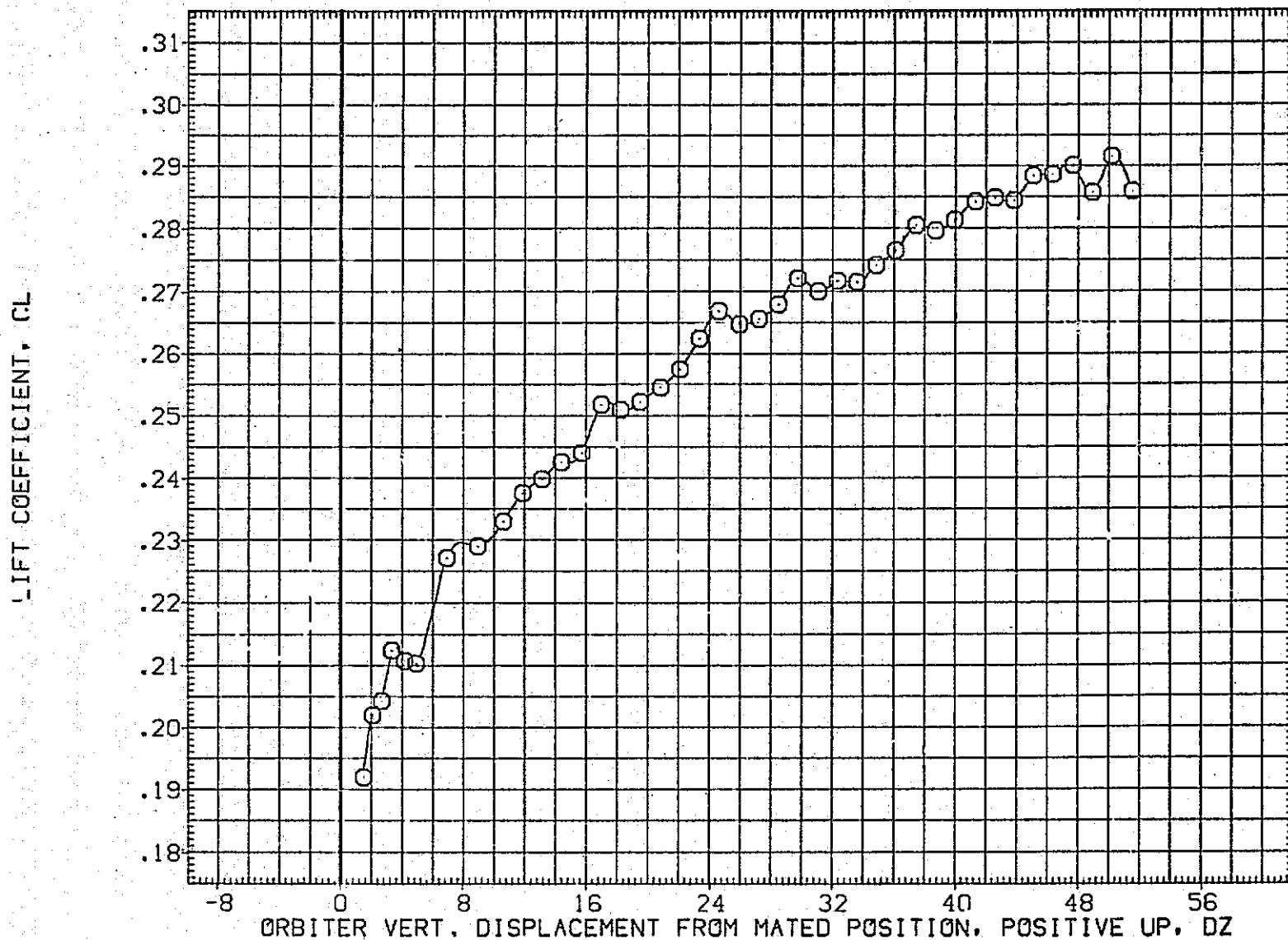


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.598	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SO
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. RC
		BETA0	.000	RUDDER	.010	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

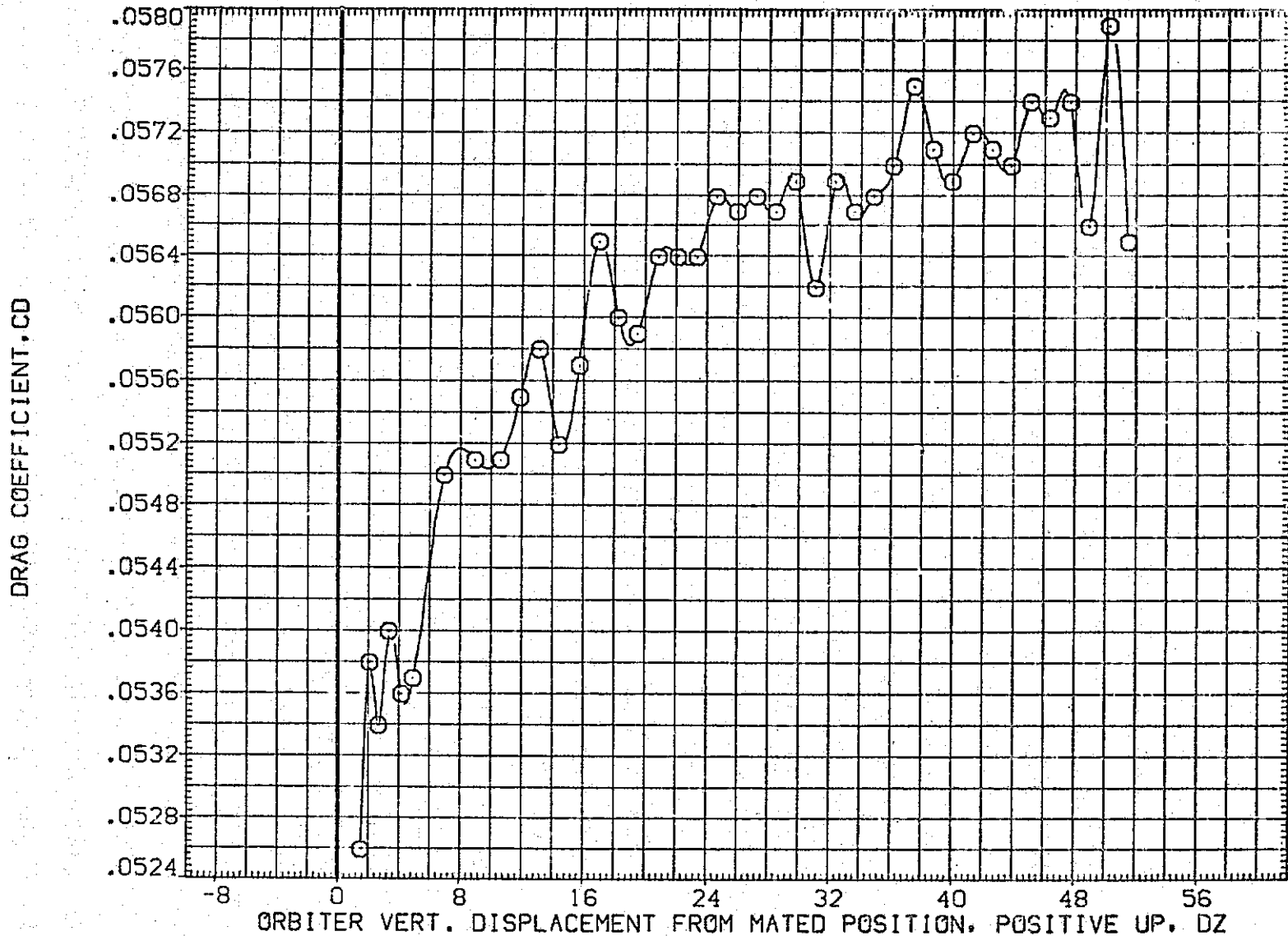


FIG.176 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE072

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE073)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	5.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

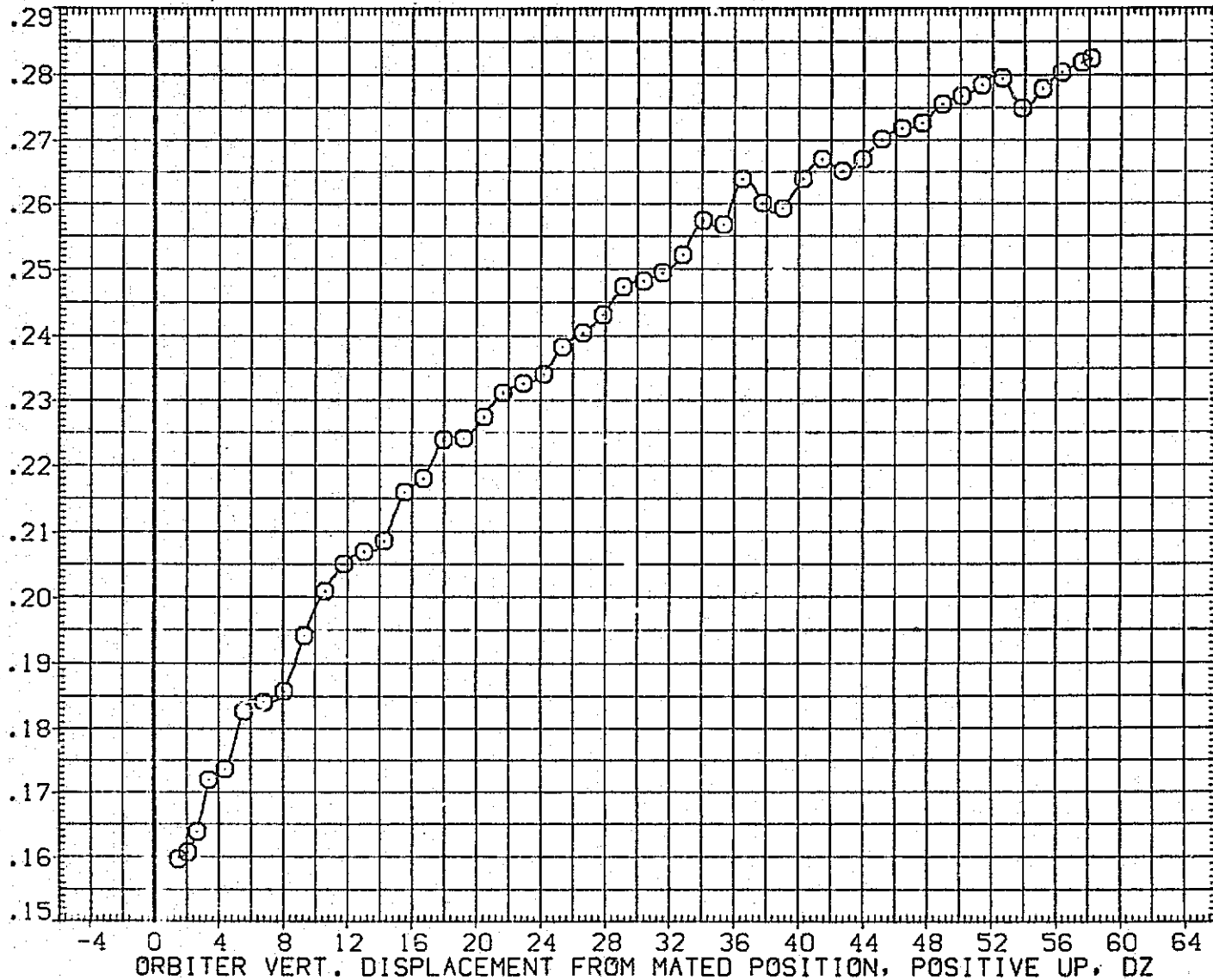


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

SYMBOL

○

MACH

.599

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

.000

STAB

5.000

ELEVON

.000

BDFLAP

5.000

DX

.000

DY

.000

IORB

8.000

BETA0

.000

RUDDER

.000

REFERENCE INFORMATION

SREF

5500.0000

SQ.FT.

LREF

327.7860

IN.

BREF

2348.0400

IN.

XMRP

1339.9000

IN. XC

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

PITCHING MOMENT COEFFICIENT, CLM

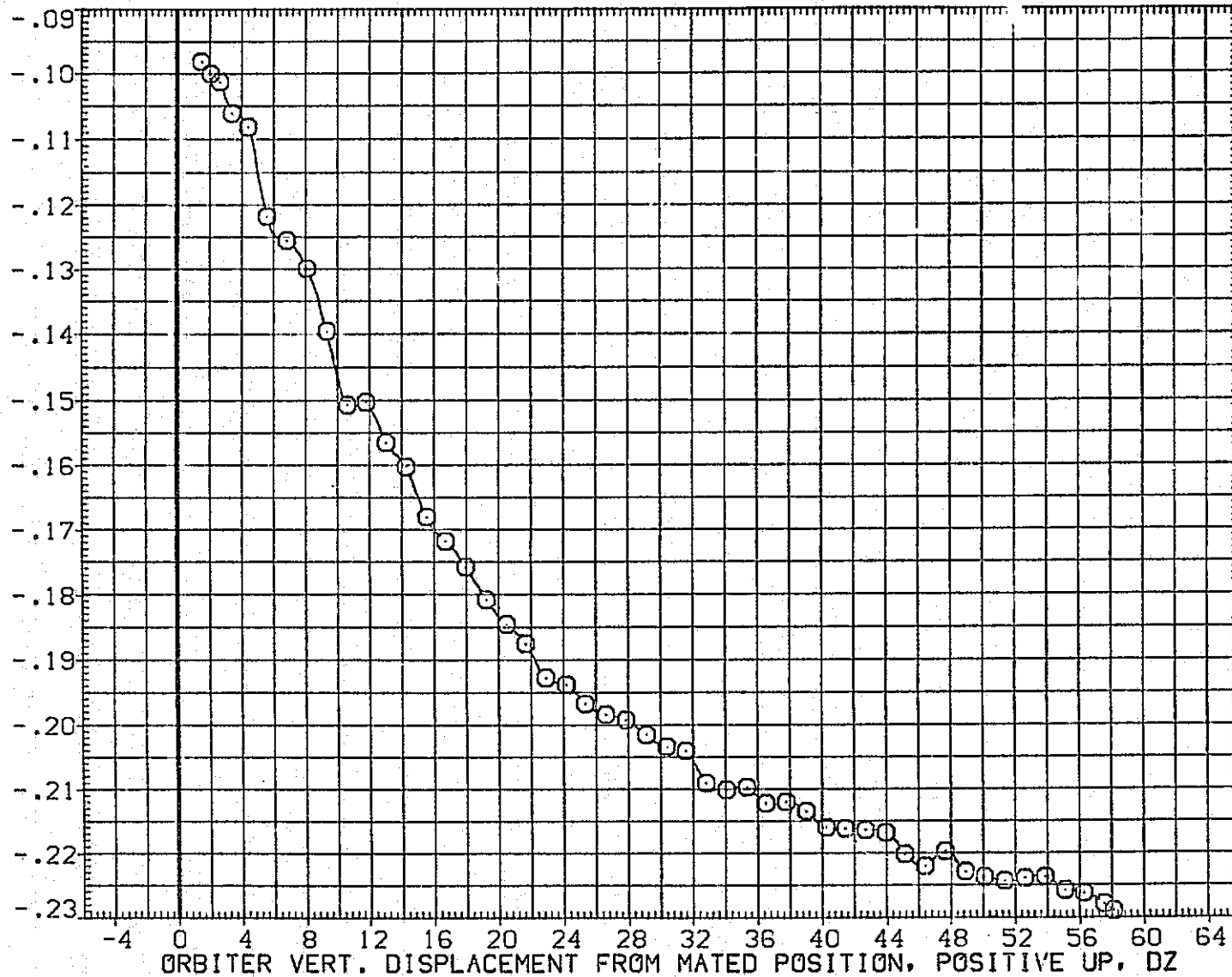


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE073)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

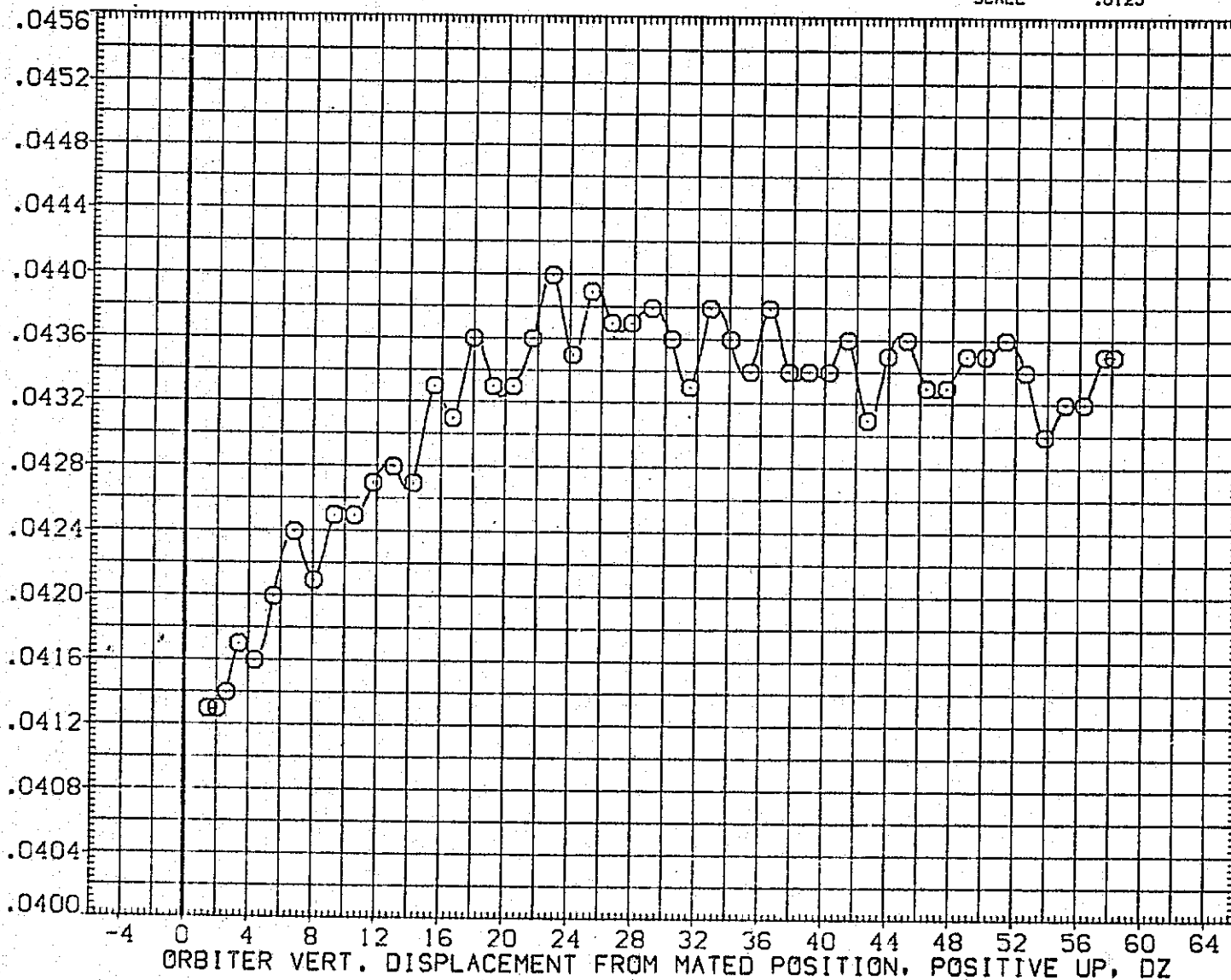


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

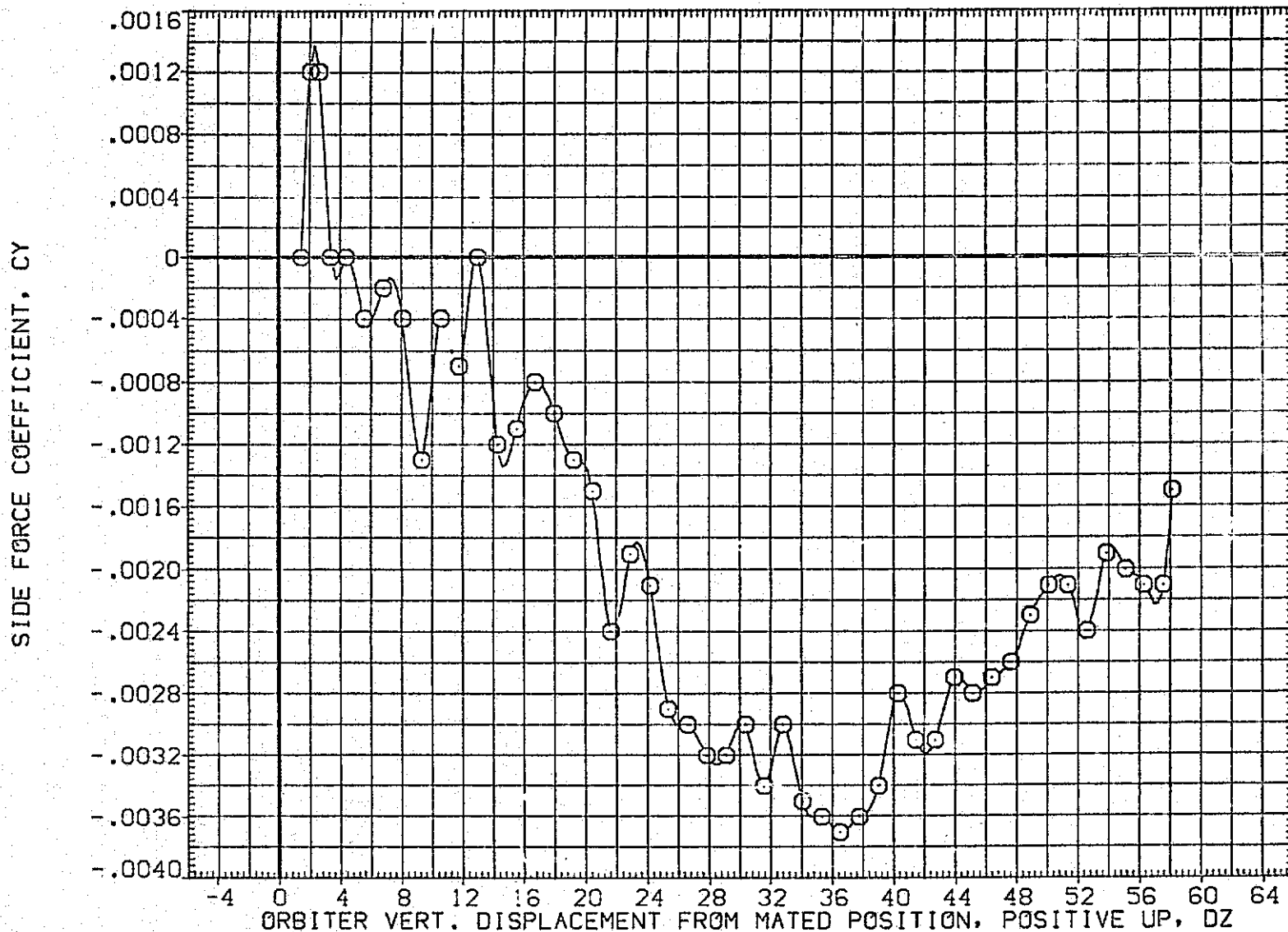


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE073)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50. FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

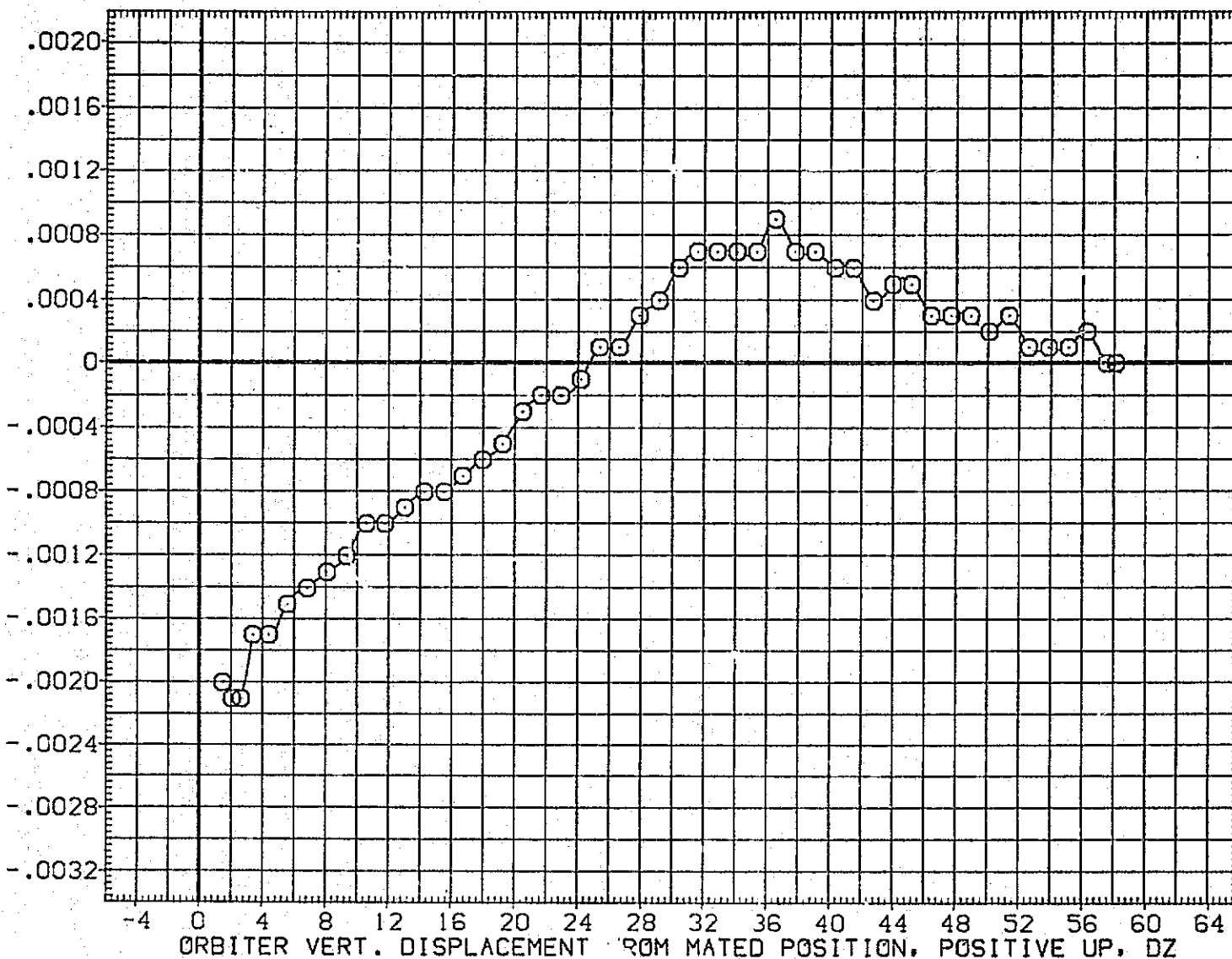


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	RETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

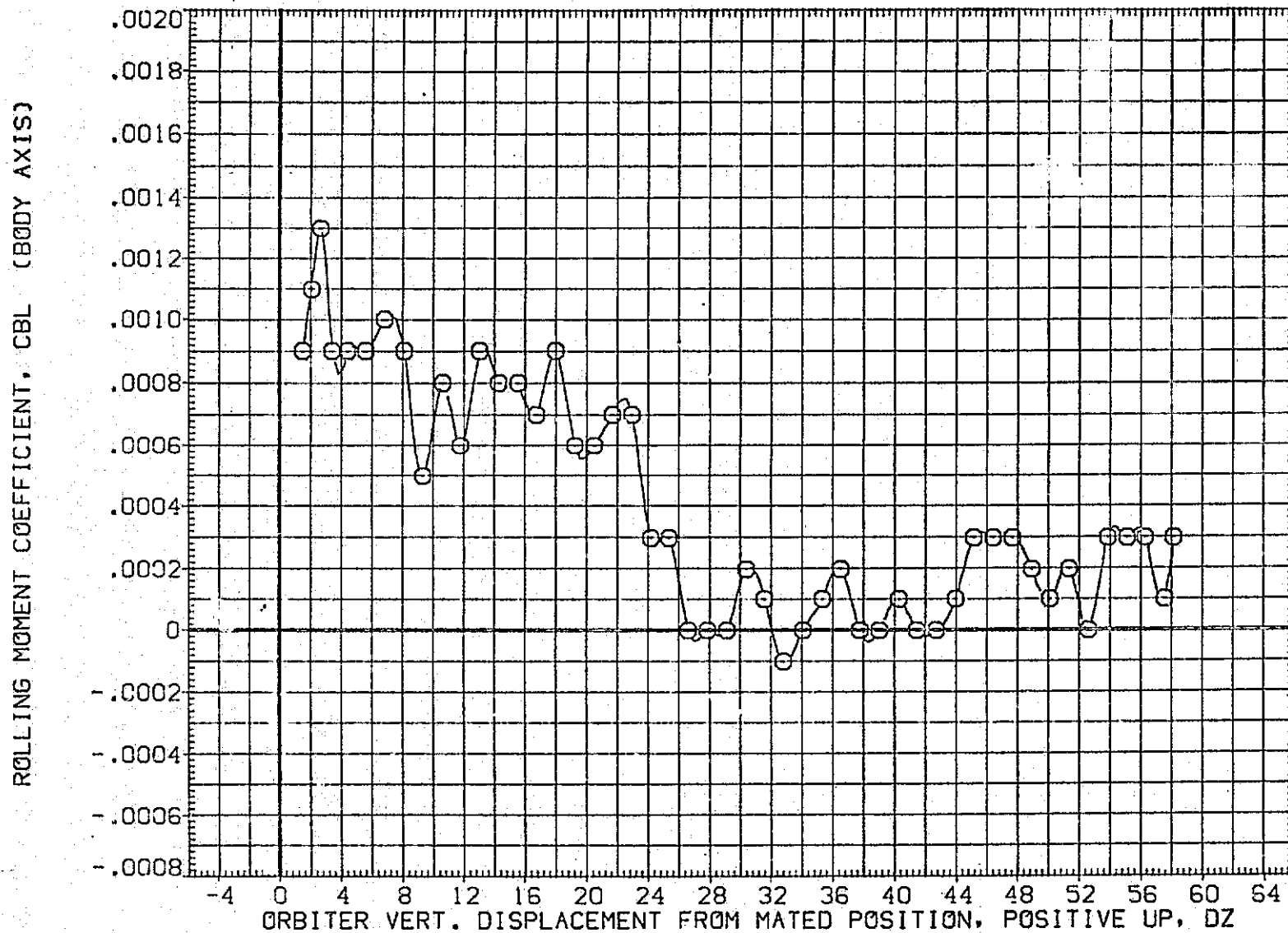


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE073)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

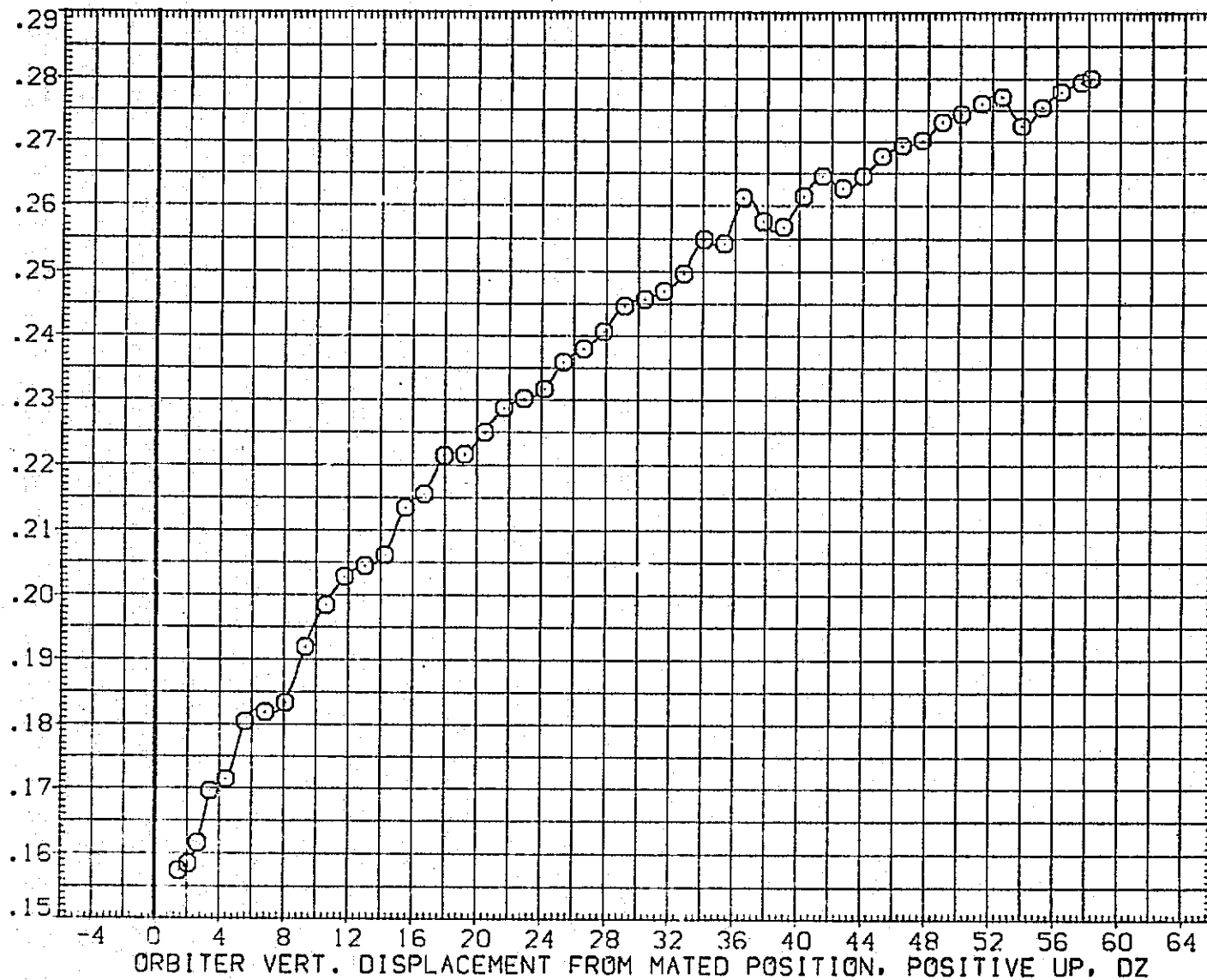


FIG.177 CARRIER DATA, ORB. PROXIMIT', ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	5.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

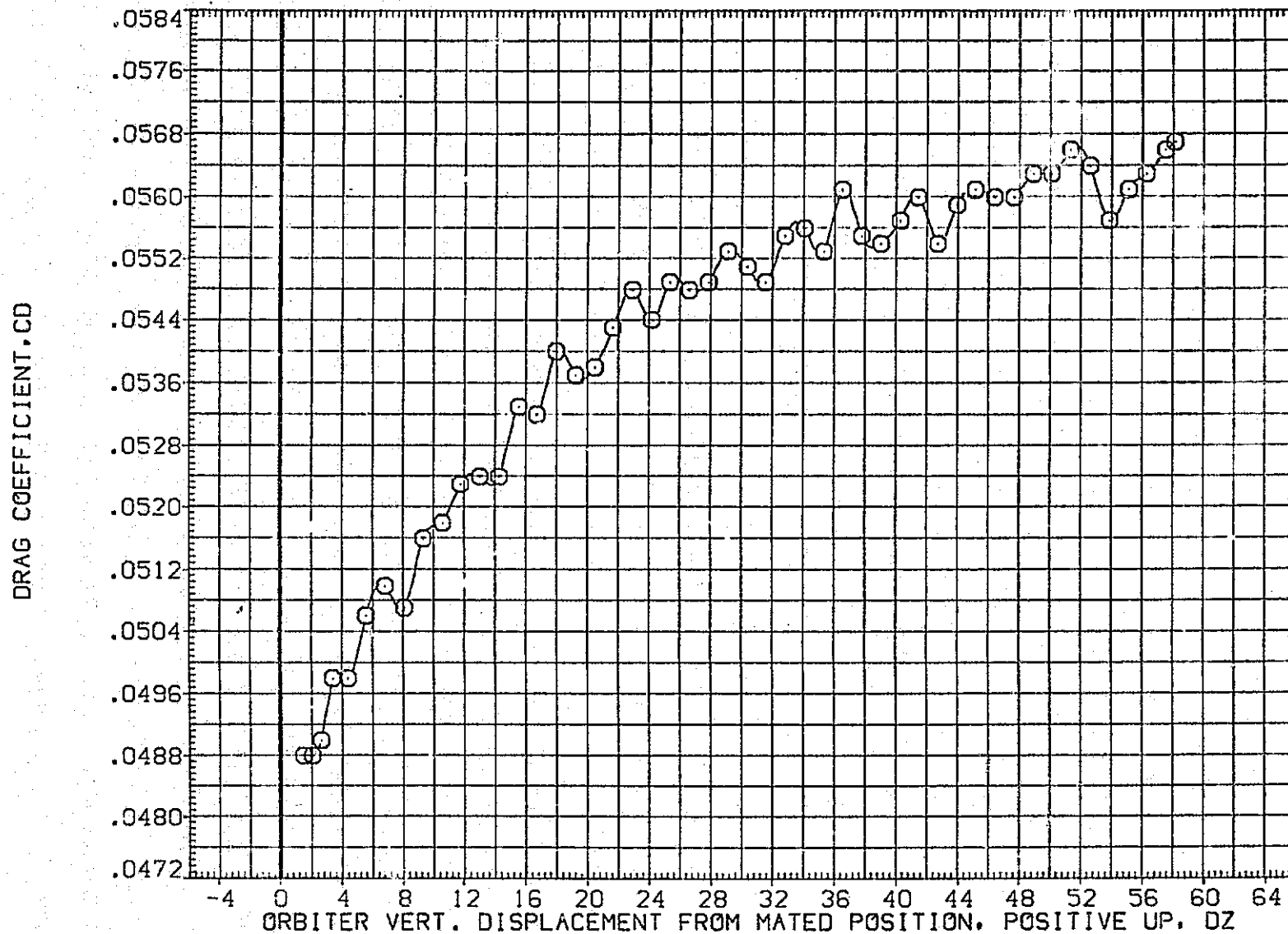


FIG.177 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE073

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE074)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.802	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

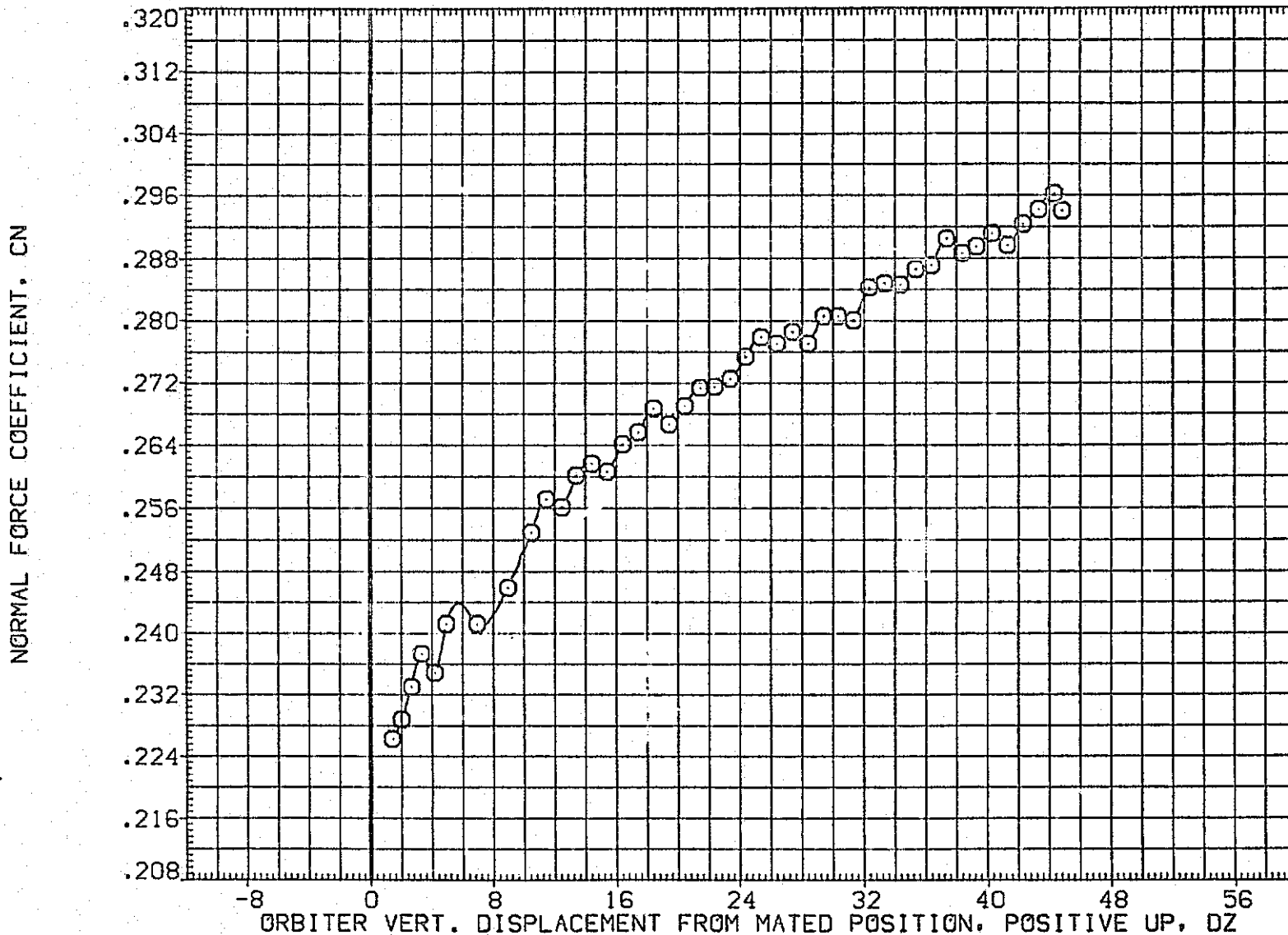


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

SYMBOL
○MACH
.602

PARAMETRIC VALUES			
ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	.000	DX	.000
DY	.000	IORB	4.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

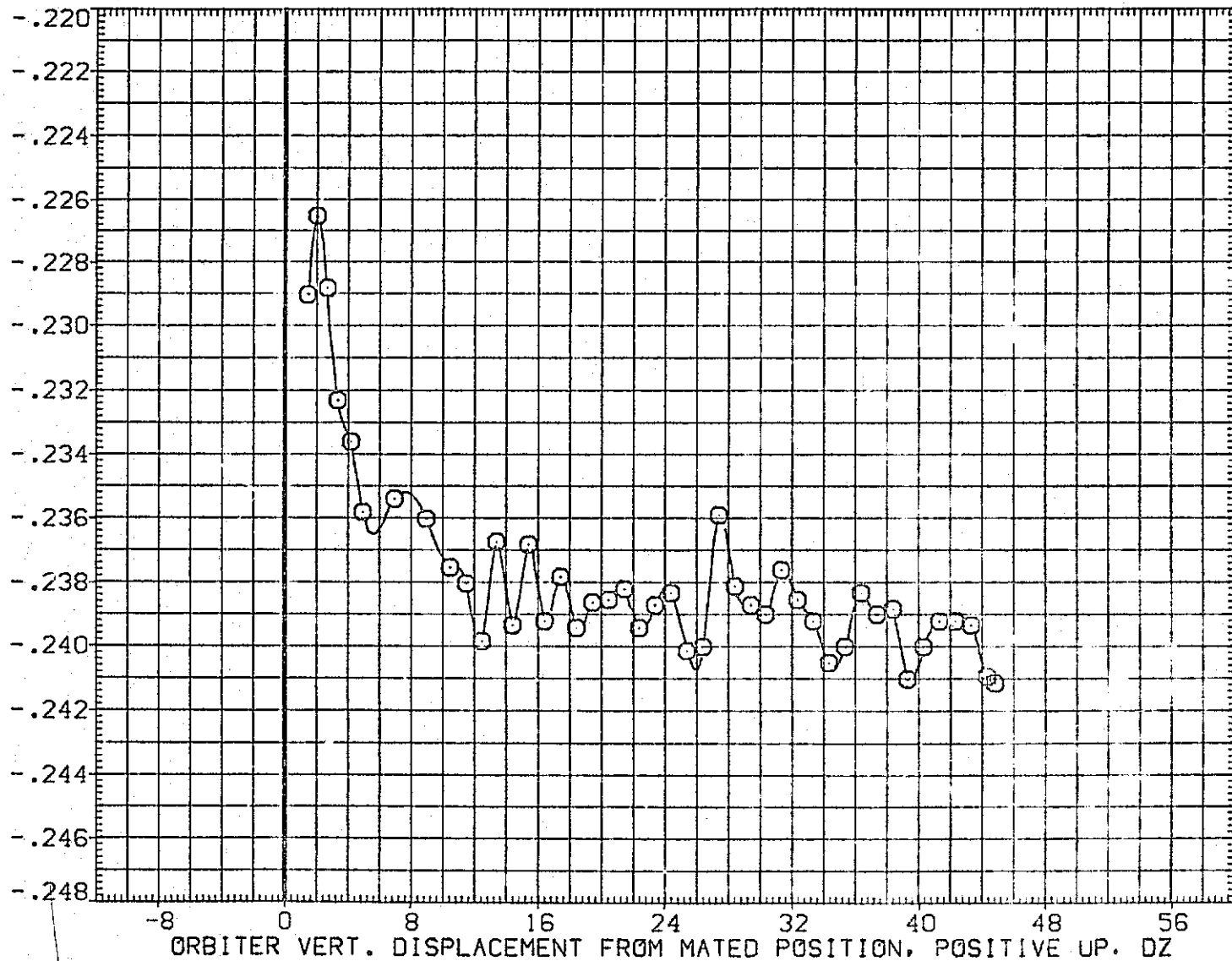


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

LTV44-559(CA26) 747/1 ATY 02 S! (CARRIER DATA) (RFE074)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

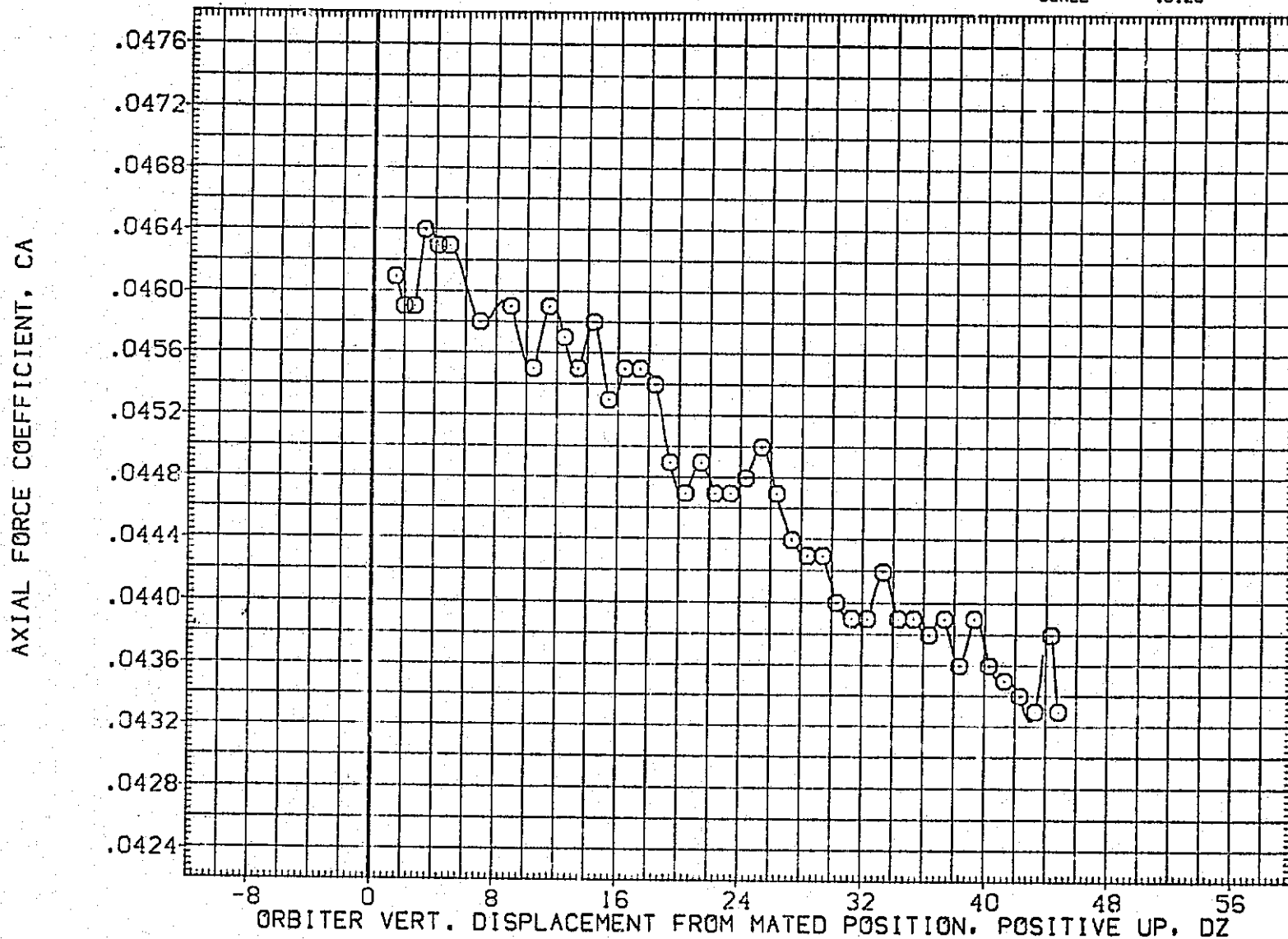


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

SYMBOL

MACH

PARAMETRIC VALUES

REFERENCE INFORMATION

O

.602

ALPHAC

2.000

BETAC

.000

SREF

5900.0000

SQ.FT.

STAB

5.000

ELEVON

.000

LREF

327.7800

IN.

BOFLAP

.000

DX

.000

BREF

2348.0400

IN.

DY

.000

IORB

4.000

XMRP

1339.9000

IN. XC

BETA0

.000

RUDDER

.000

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

SIDE FORCE COEFFICIENT, CY

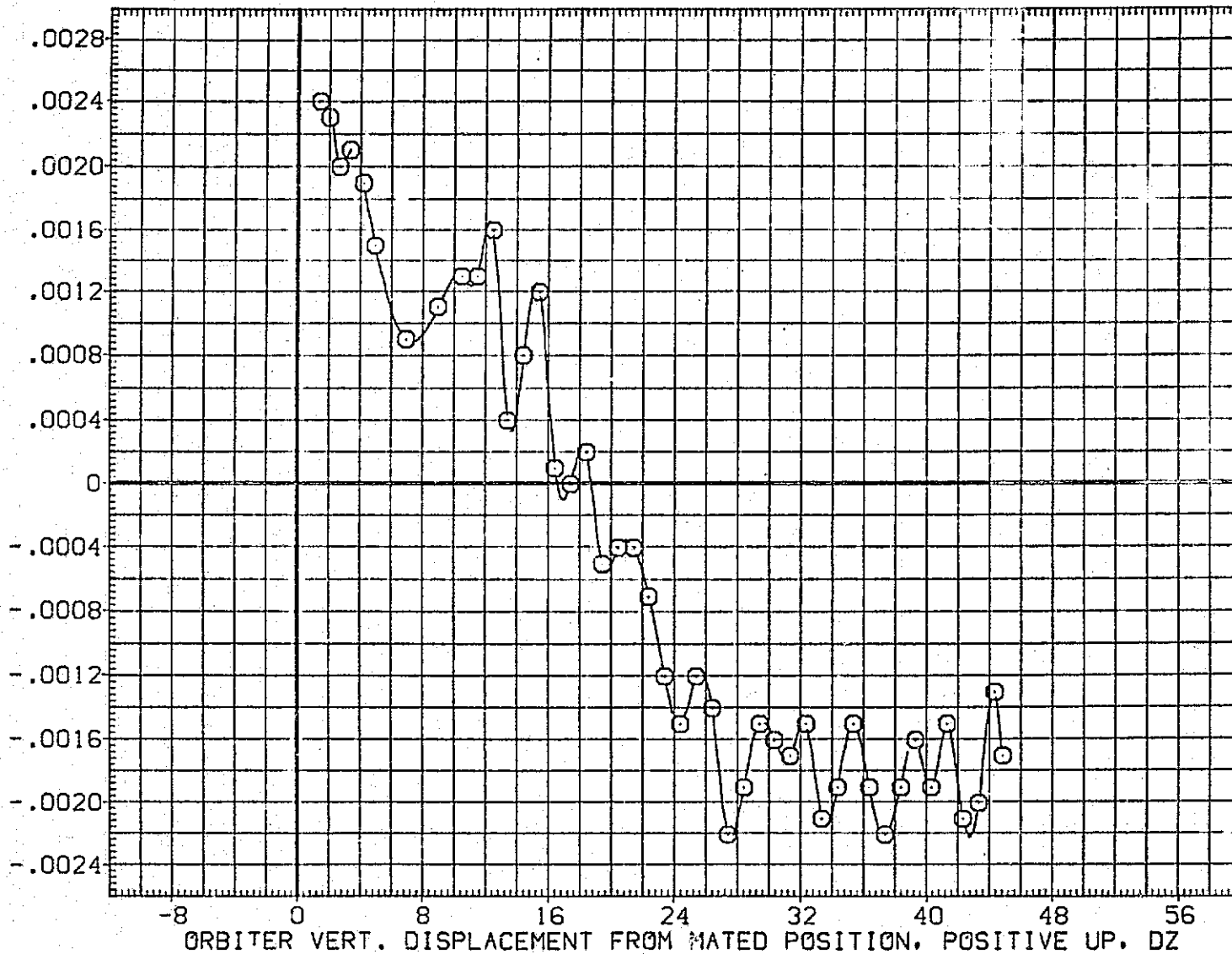


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE074)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.602	2.000	.000	.000	.000	5500.0000	IN.	
		5.000	.000	.000	.000	327.7800	IN.	
		BDFLAP	.000	.000	.000	2348.0400	IN.	
		DY	.000	10RB	4.000	1339.8000	IN.	XC
		BETA0	.000	RUDDER	.000	.0000	IN.	YC
						190.7500	IN.	ZC
						ZMRP		
						SCALE	.0125	

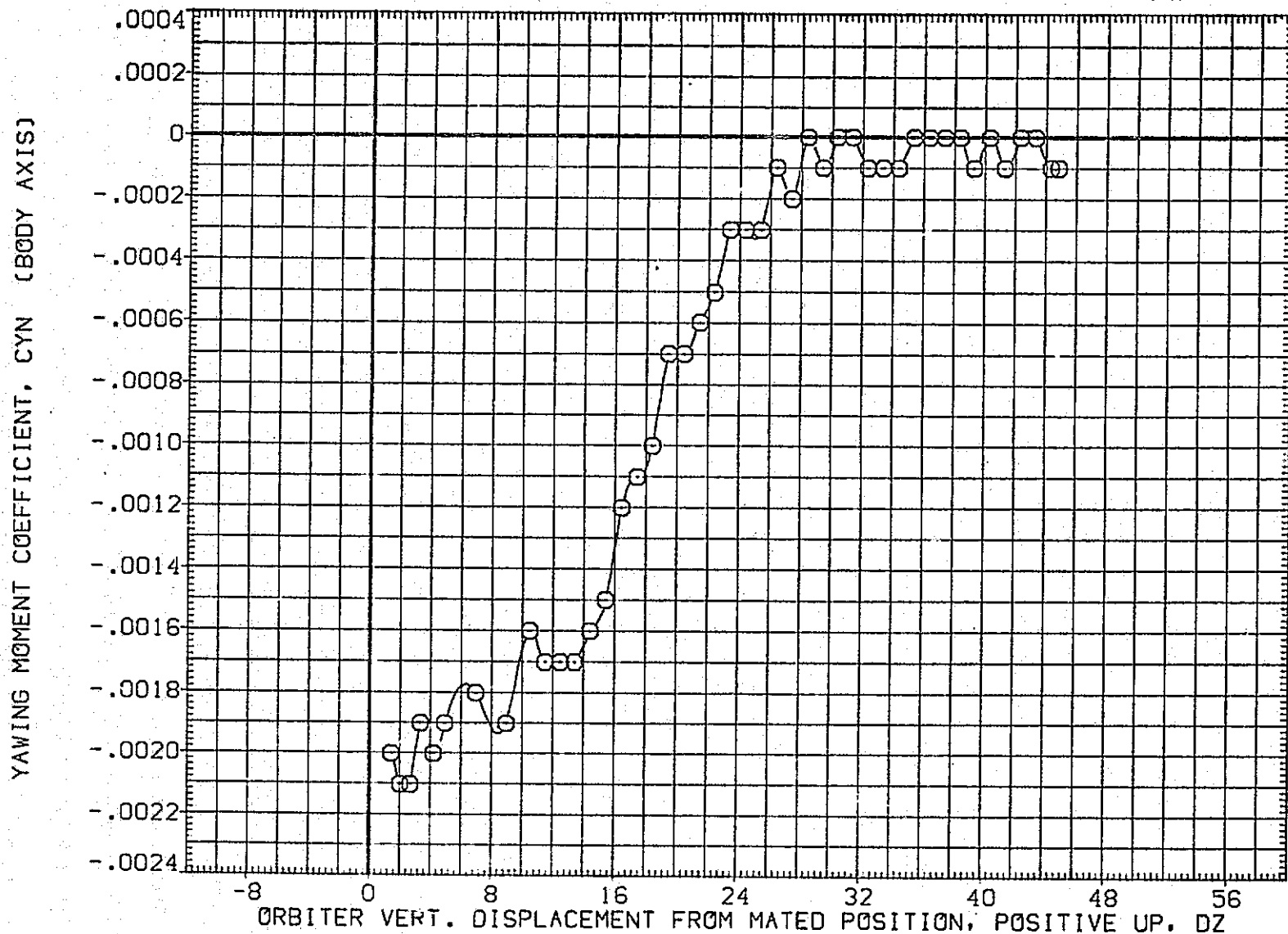


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, 10RB=4, BETAC=0, BETA0=0, RFE074

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

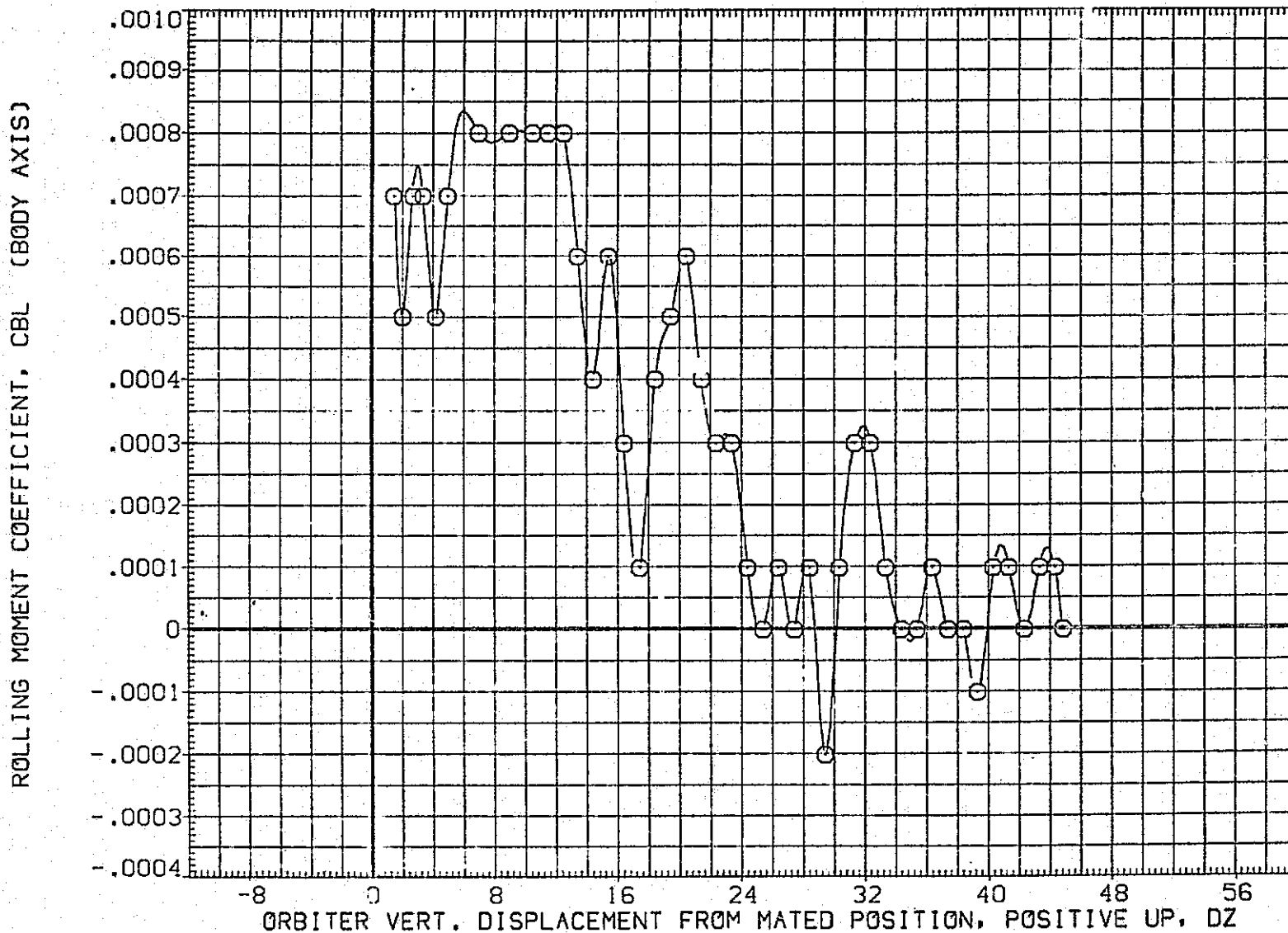


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE074)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

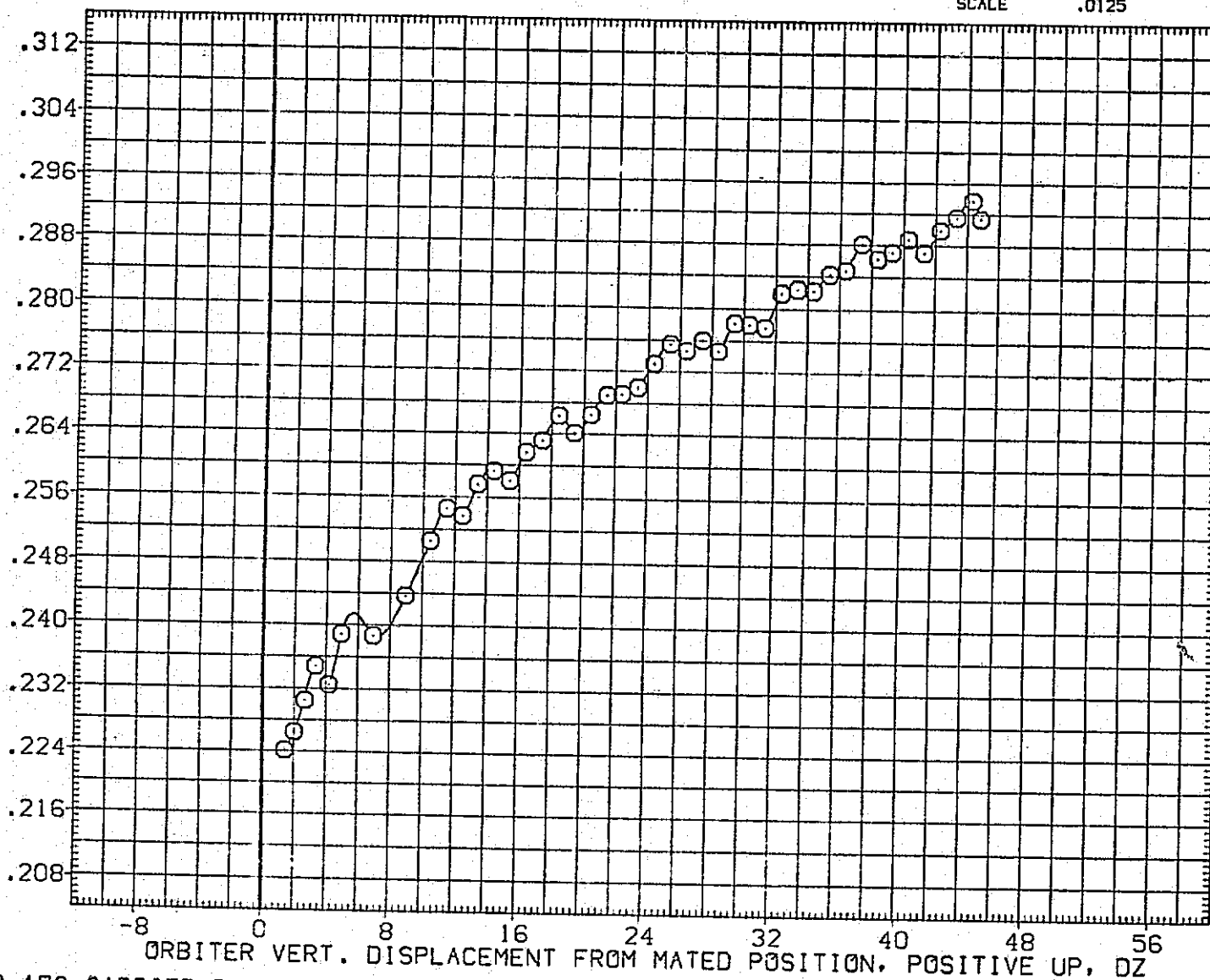


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

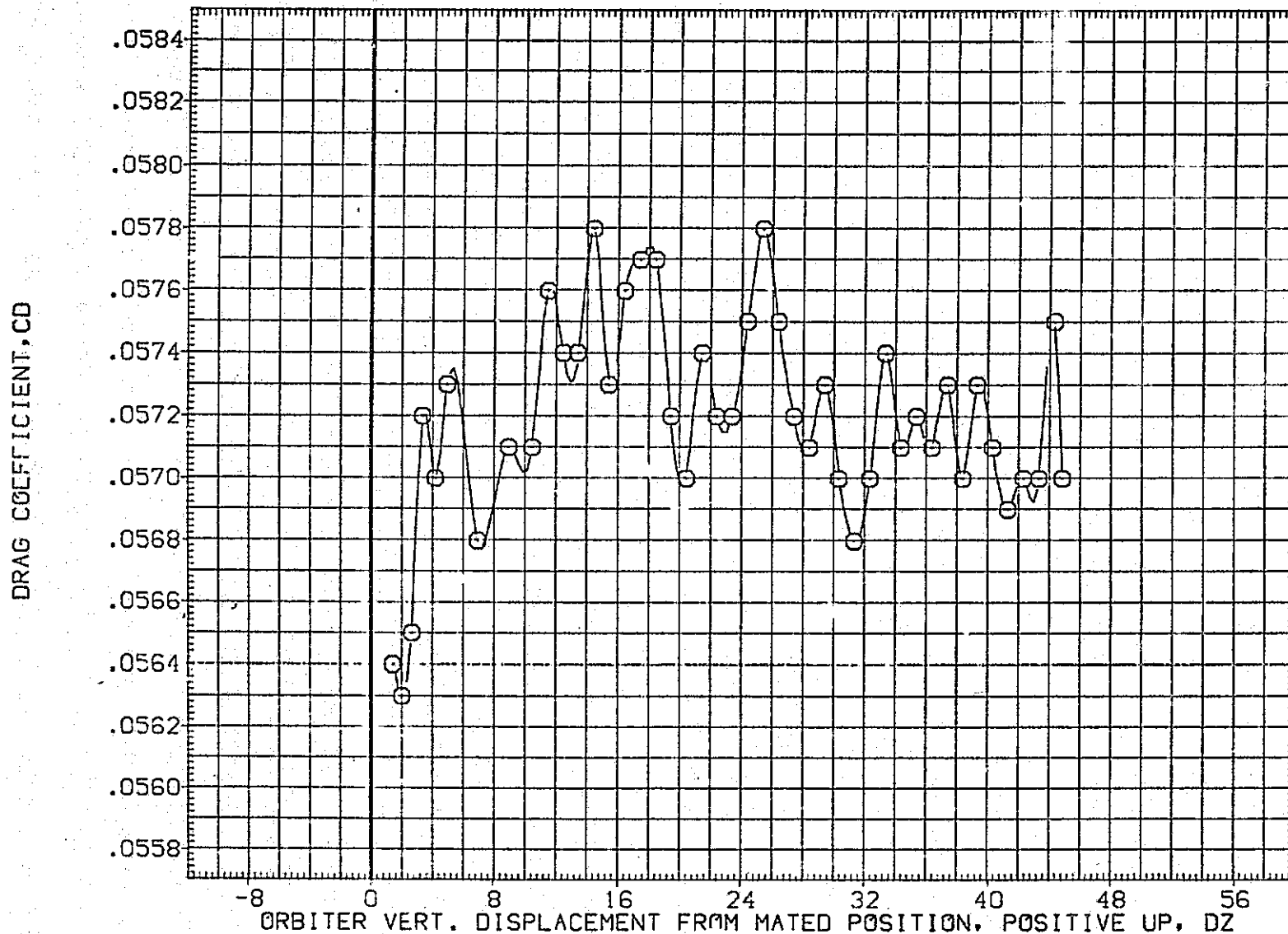


FIG.178 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE074

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE075)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETAG	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

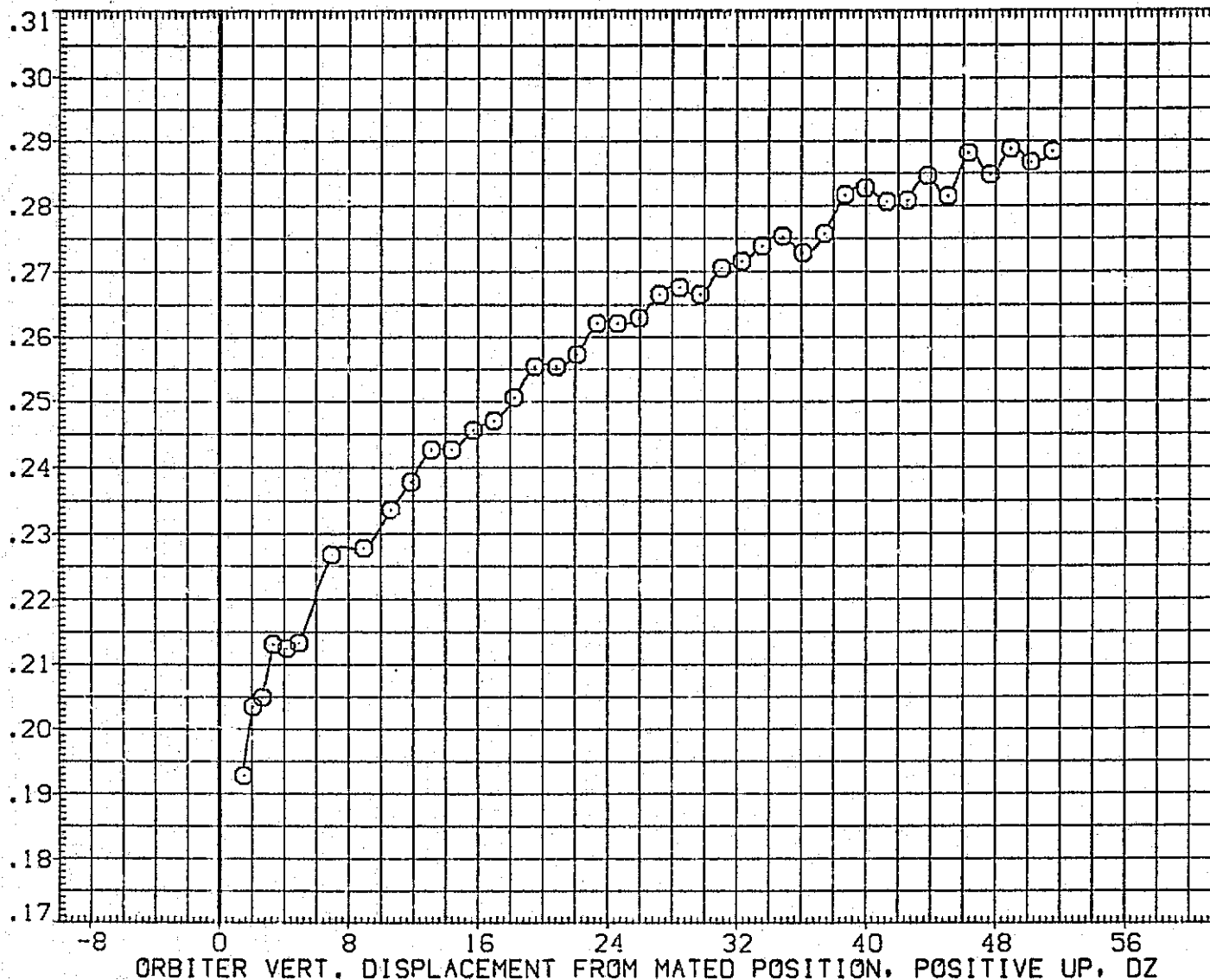


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETAG=0, RFE075

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. XC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

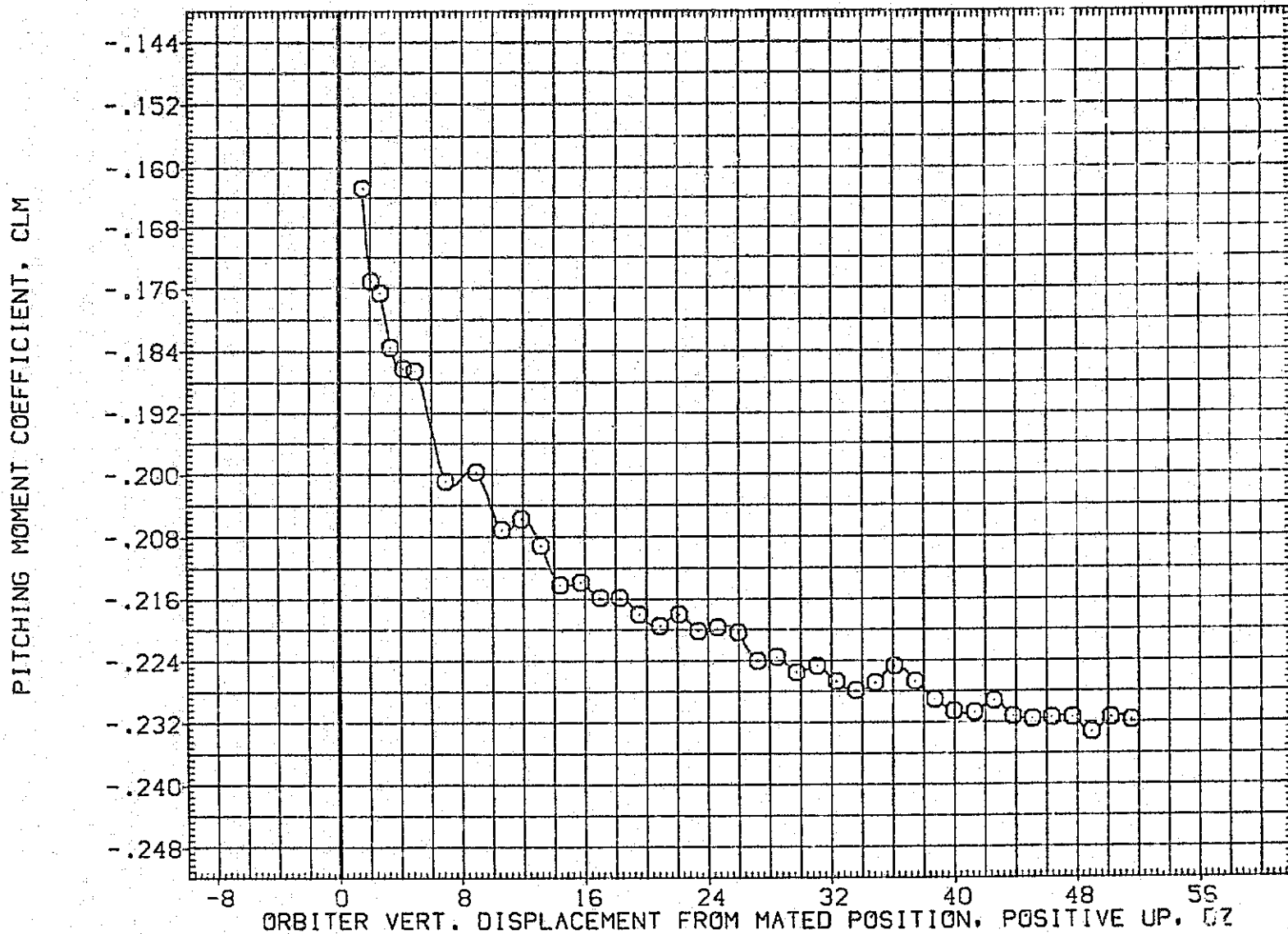


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE075)

SYMBOL

○

MACH

.603

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

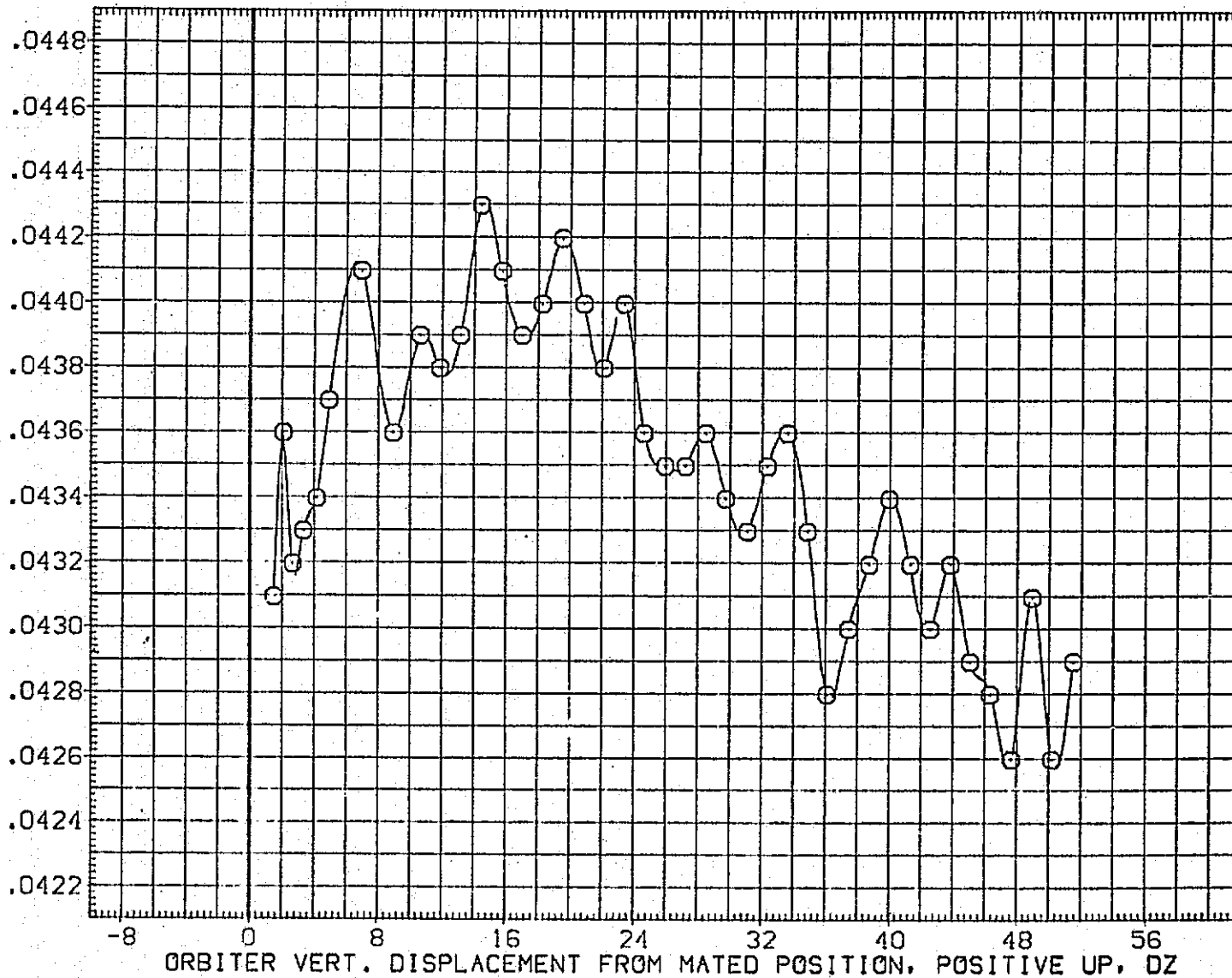


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	



FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE075)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

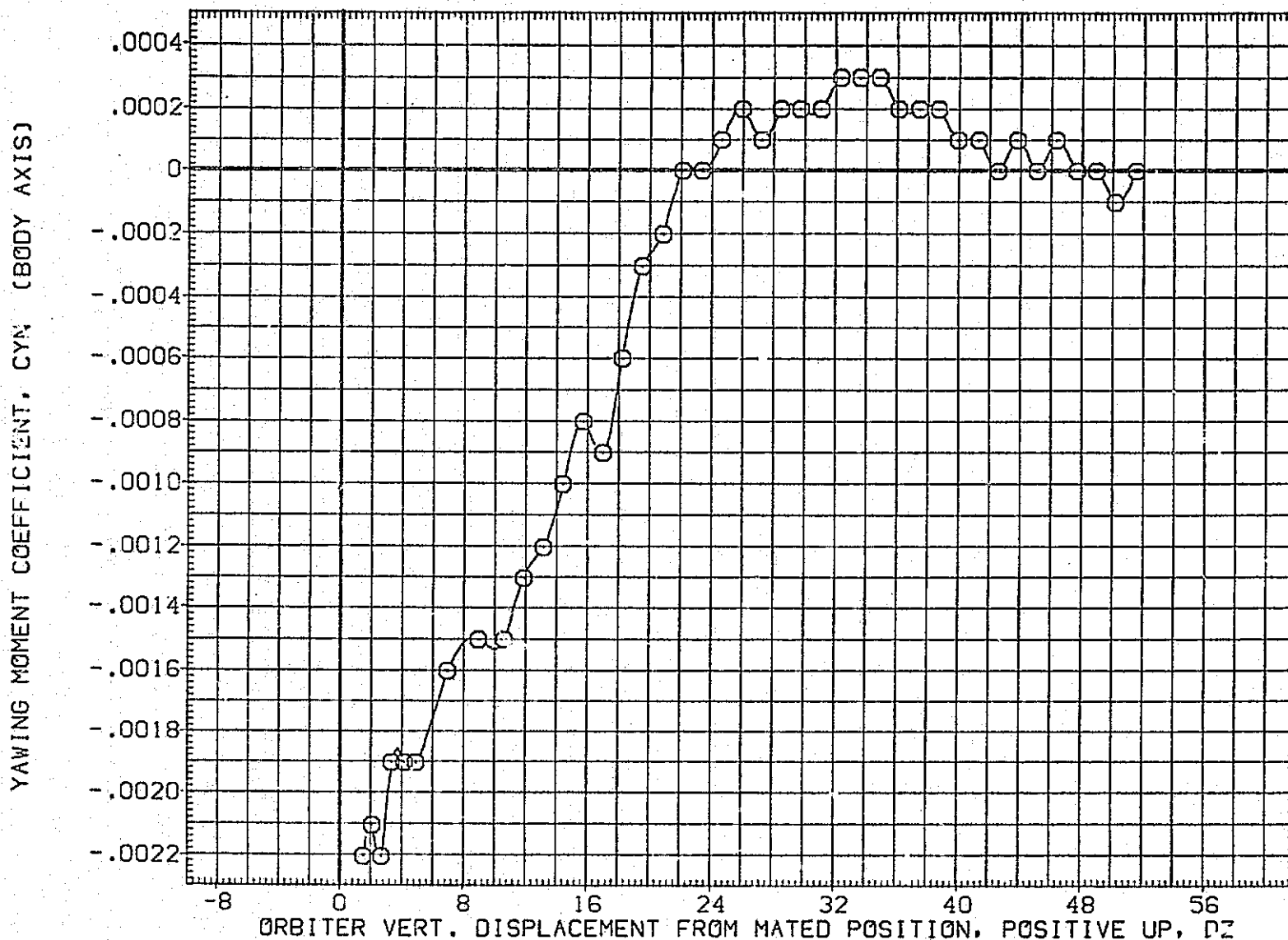


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

SYMBOL
○MACH
.603ALPHAC
STAB
BDFLAP
RY
BETA0

PARAMETRIC VALUES

2.000 BETAC .000
5.000 ELEVON .000
.000 DX .000
.000 TORB 6.000
.000 RUDDER .000

REFERENCE INFORMATION

SREF 5500.000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

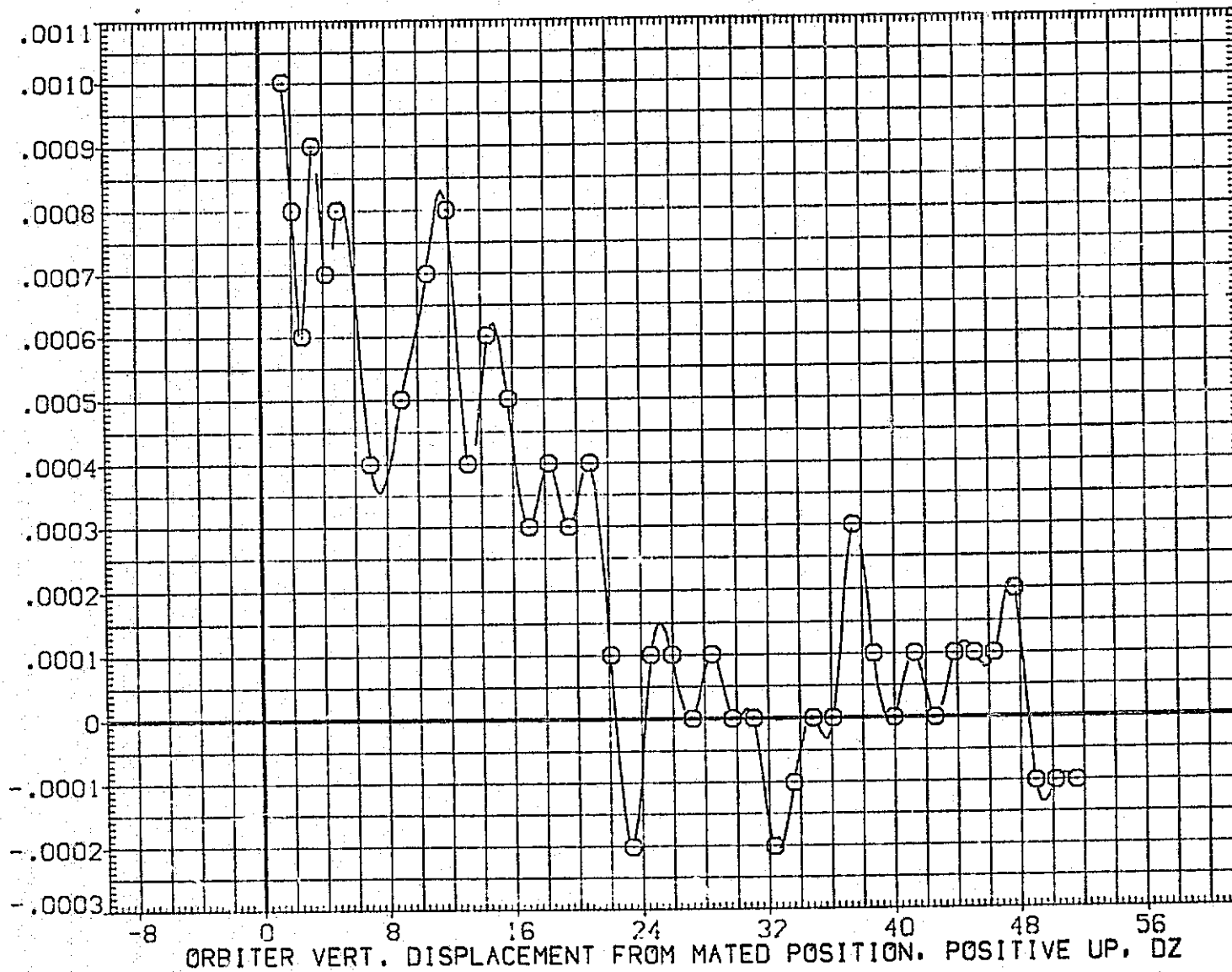


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, TORB=6, BETAC=0, BETA0=0, RFE075

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE075)

SYMBOL
O

MACH
.603

PARAMETRIC VALUES			
ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

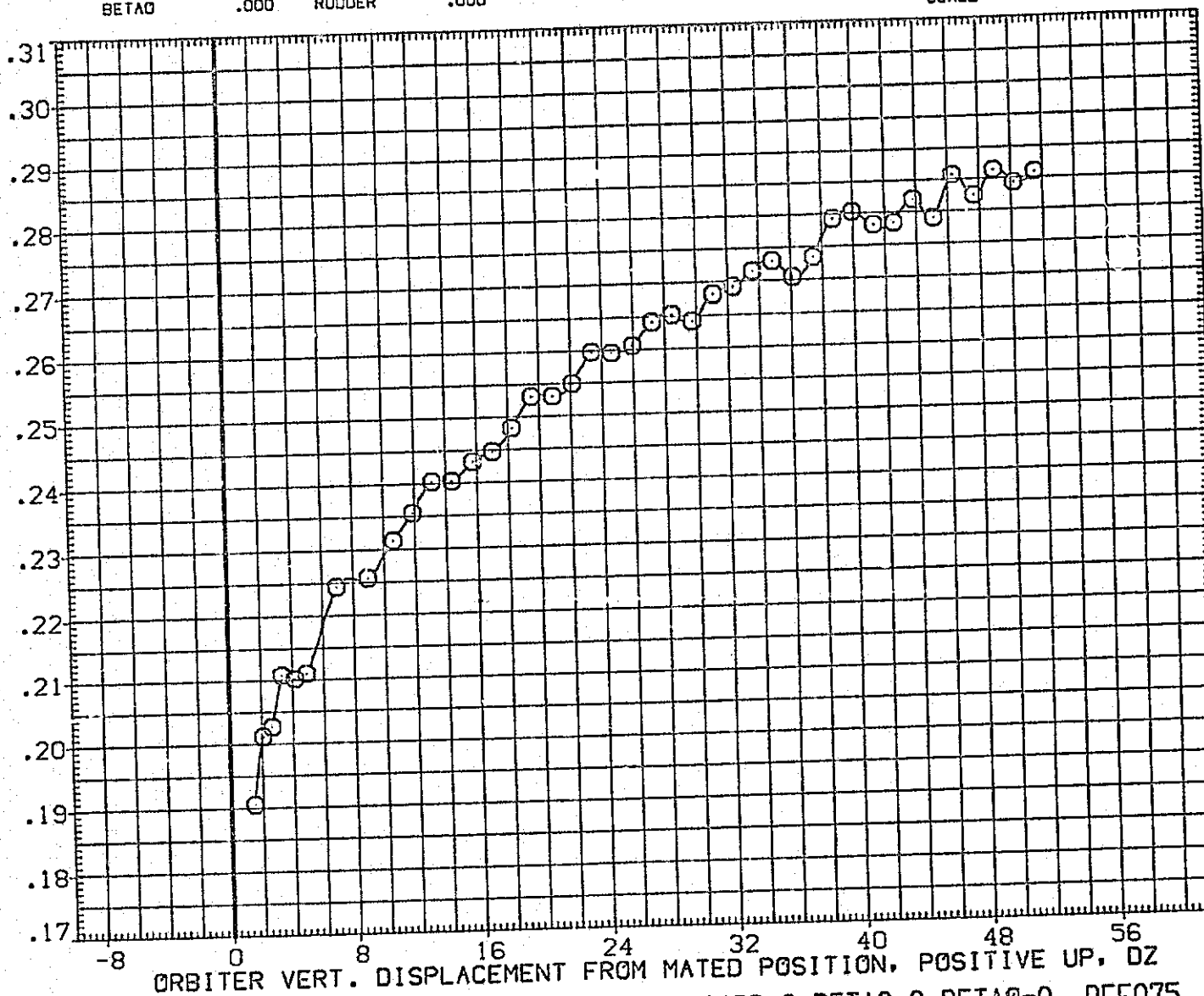


FIG.179 CARRIER DATA, OR3. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

SYMBOL

○

MACH

.603

ALPHAC
STAB
BDFLAP
DY
BETA0

PARAMETRIC VALUES

2.000 BETAC .000
5.000 ELEVON .000
.000 DX .000
.000 IORB 6.000
.000 RUDDER .000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

DRAG COEFFICIENT, CD

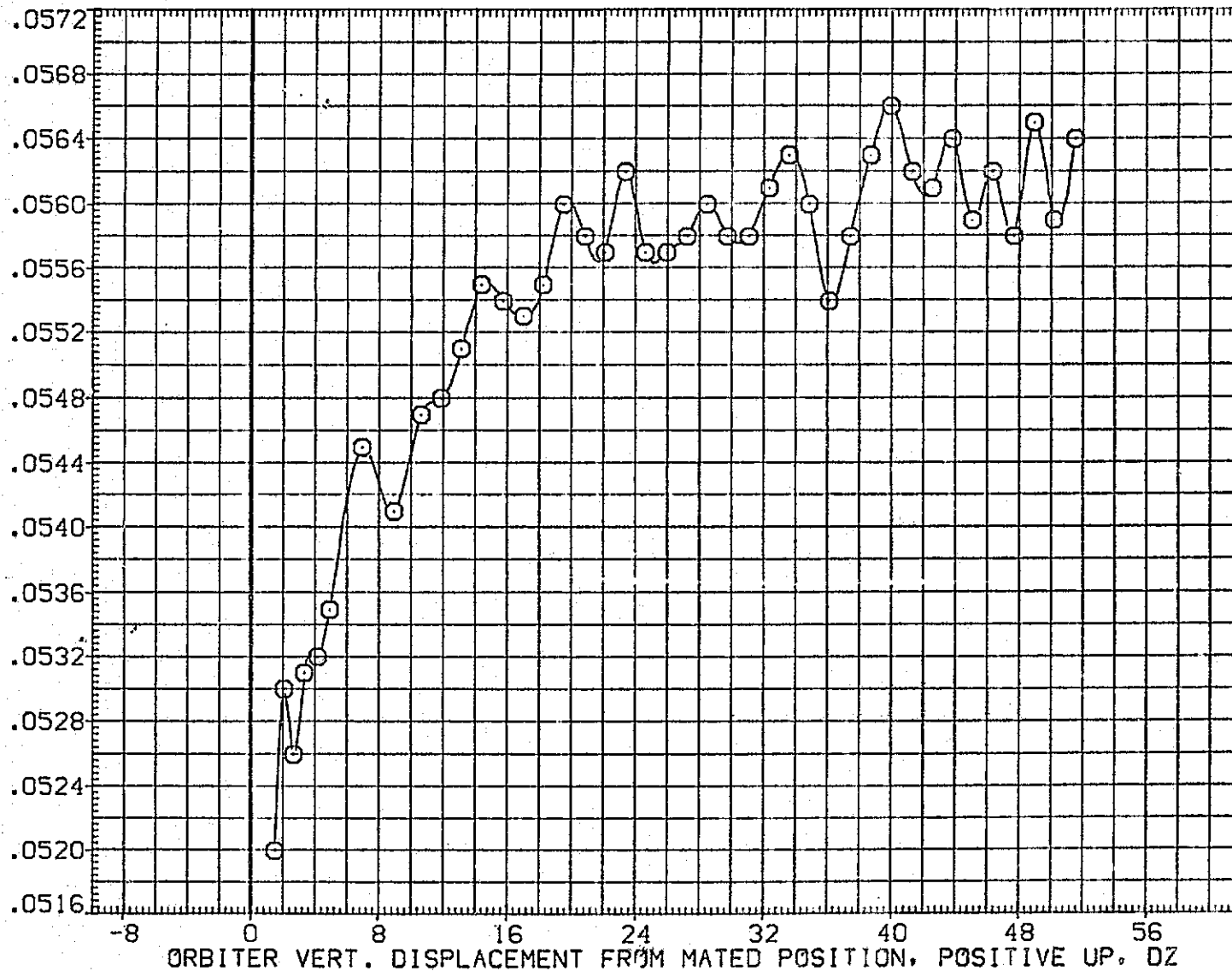


FIG.179 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE075

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE076)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION																
		ALPHAC	BETAC	ELEVON	DX	IORB	BETAO	RUDDER	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	IN.	IN.	IN.	IN.	IN.	IN.
○	.599	2.000	.000	.000	.000	8.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125								

NORMAL FORCE COEFFICIENT, CN

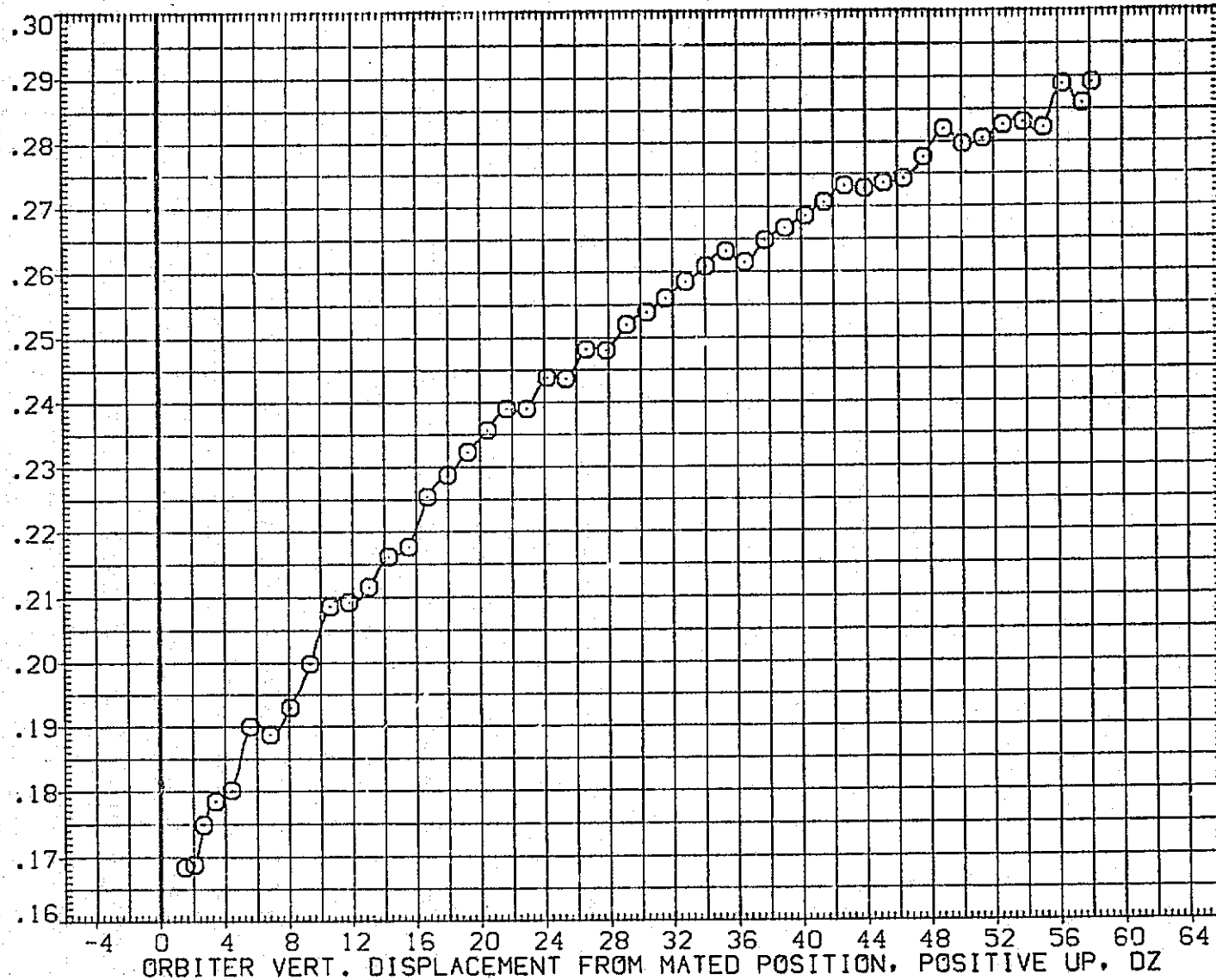


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

SYMBOL

O

MACH

.599

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

.000

STAB

5.000

ELEVON

.000

BDFLAP

.000

DX

.000

DY

.000

IORB

8.000

BETA0

.000

RUDDER

.000

REFERENCE INFORMATION

		SQ.FT.
SREF	5000.0000	IN.
LREF	327.7500	IN.
BREF	2343.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

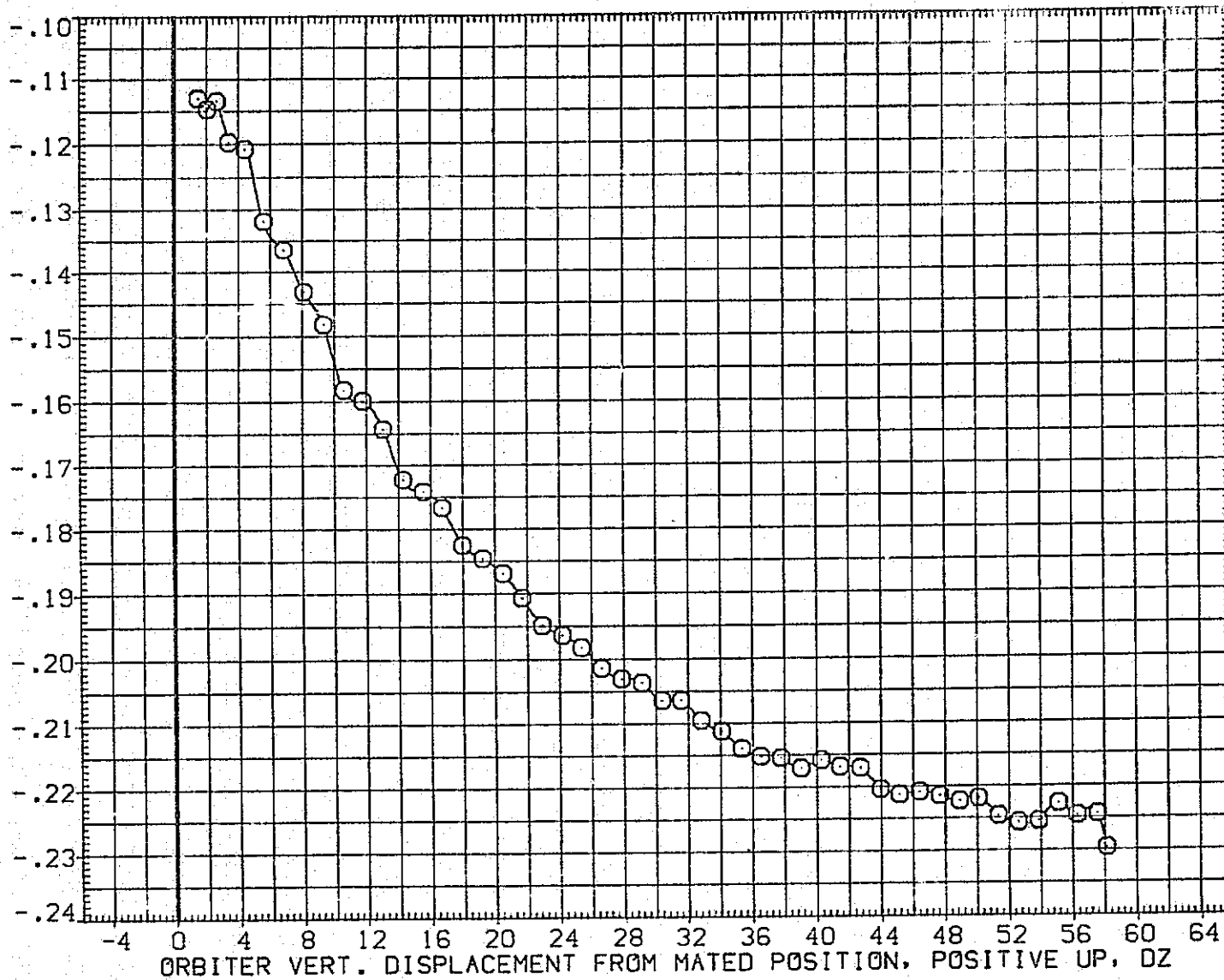


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE076)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

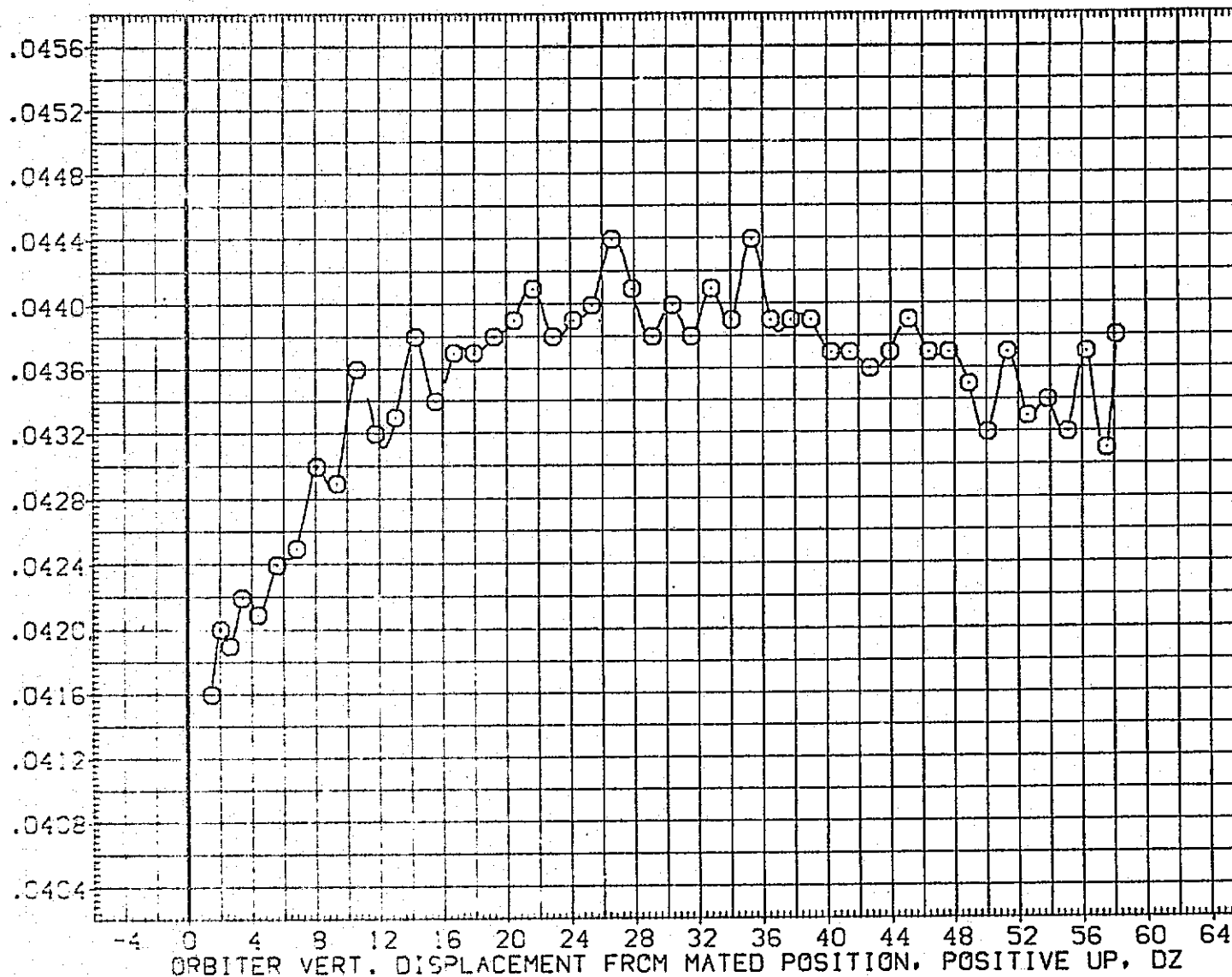


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

SYMBOL	MACH	PARAMETRIC VALUES			
		ALPHAC	BETAC	BETAO	BETAB
○	.599	2.000	.000	.000	.000
		5.000	.000	.000	.000
		.000	.000	.000	.000
		.000	8.000	.000	.000
		.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

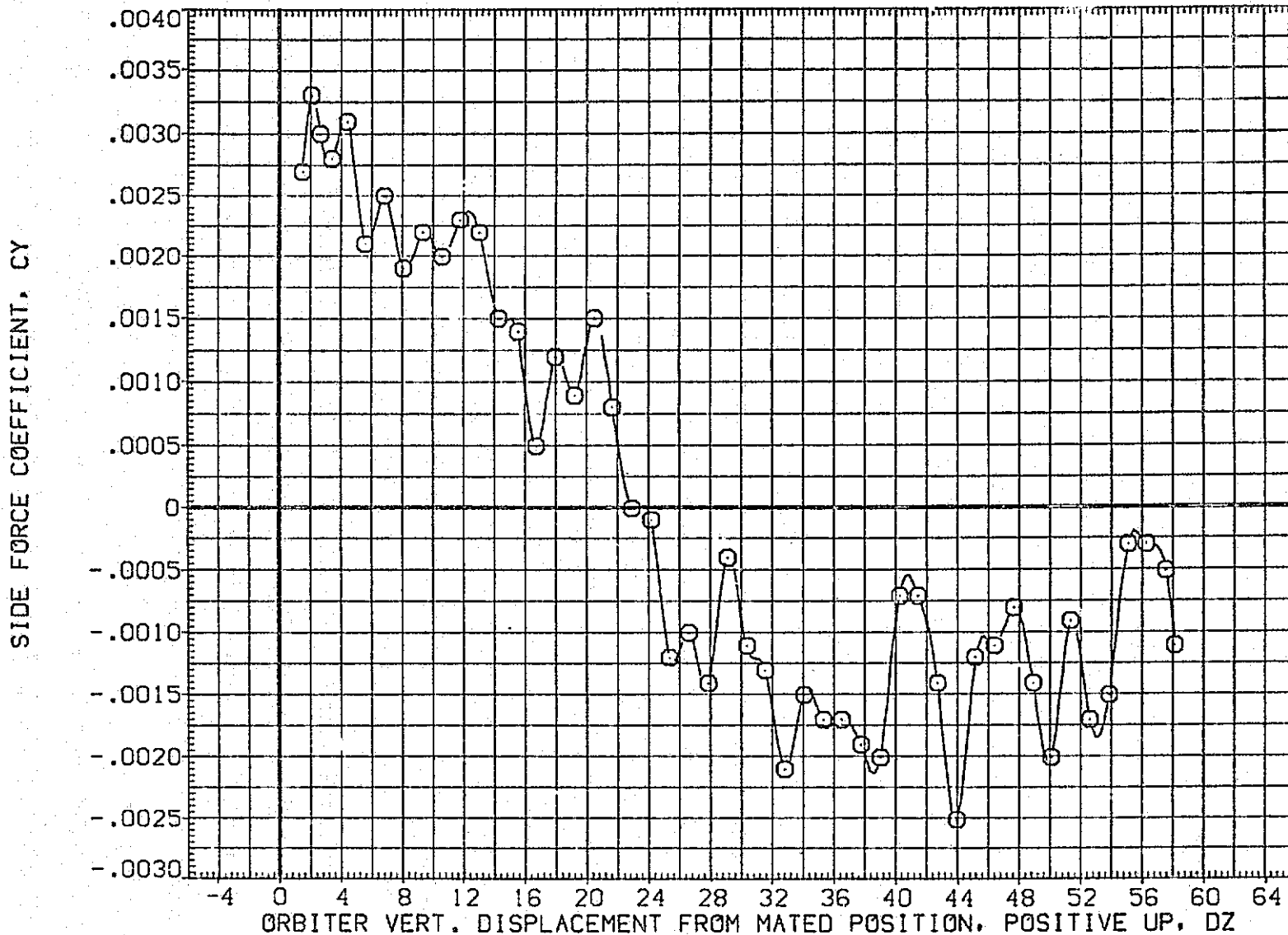


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE076)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	OX	.000
		OY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

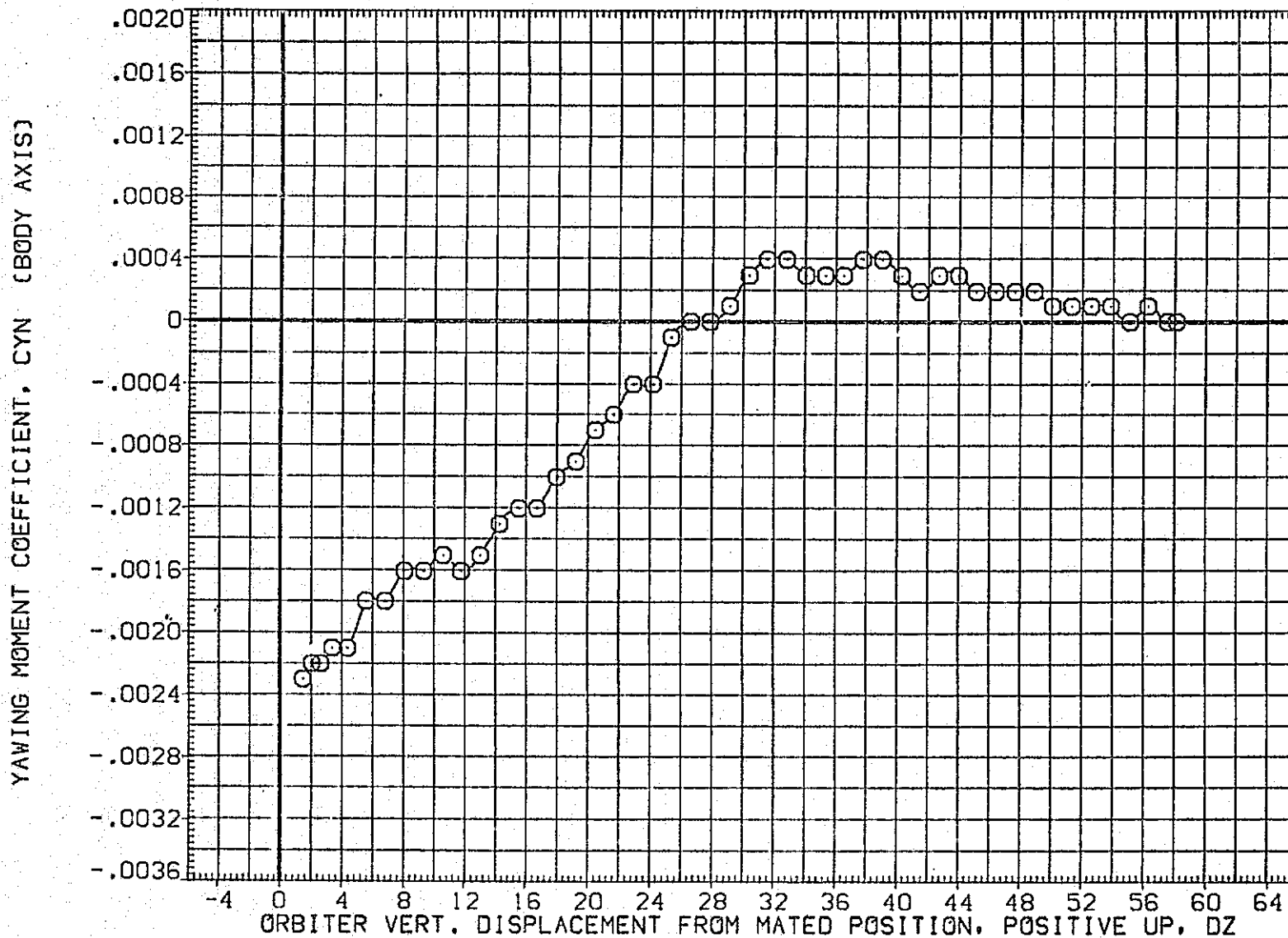


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5800.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0100	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

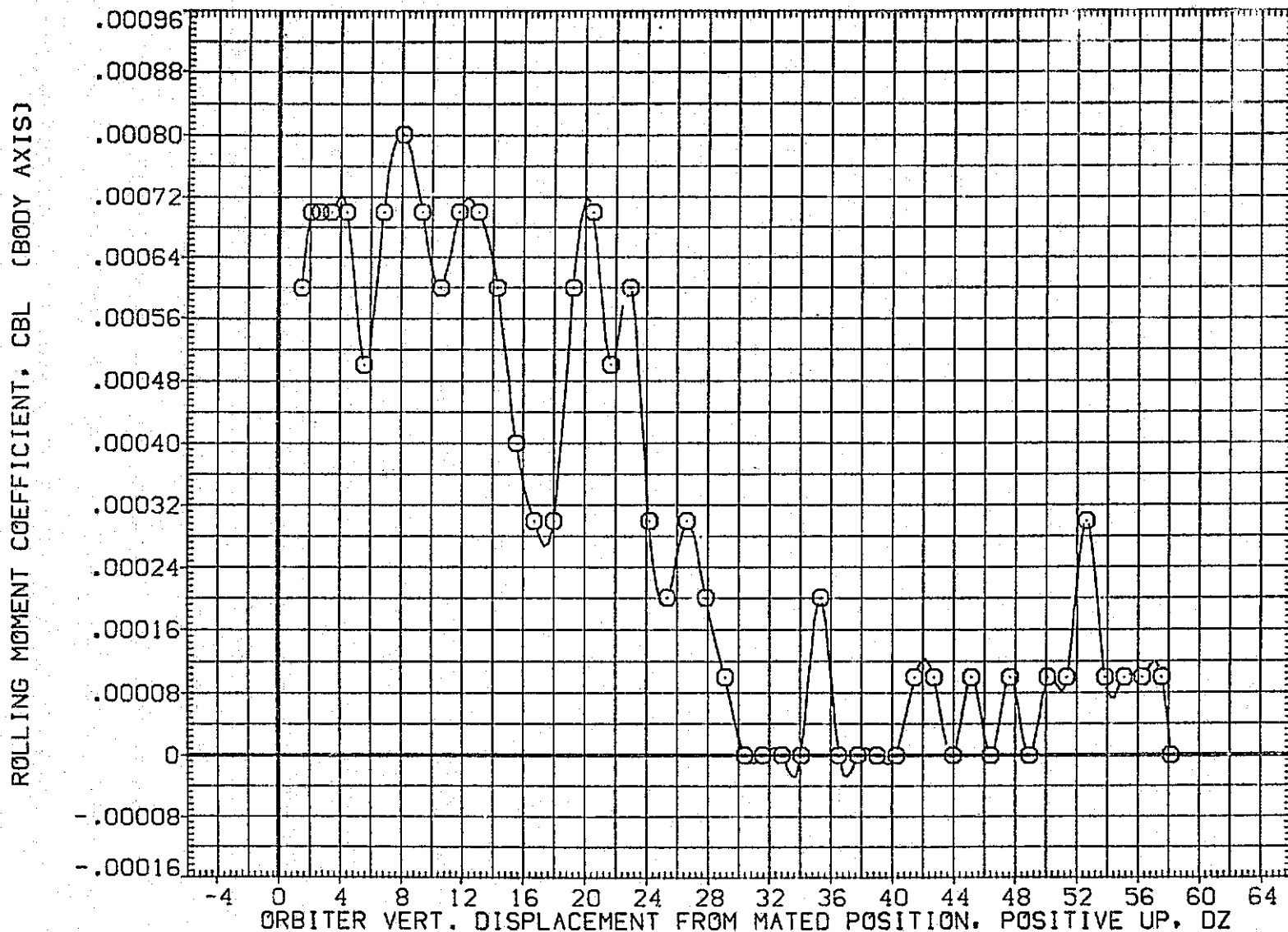


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE076)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

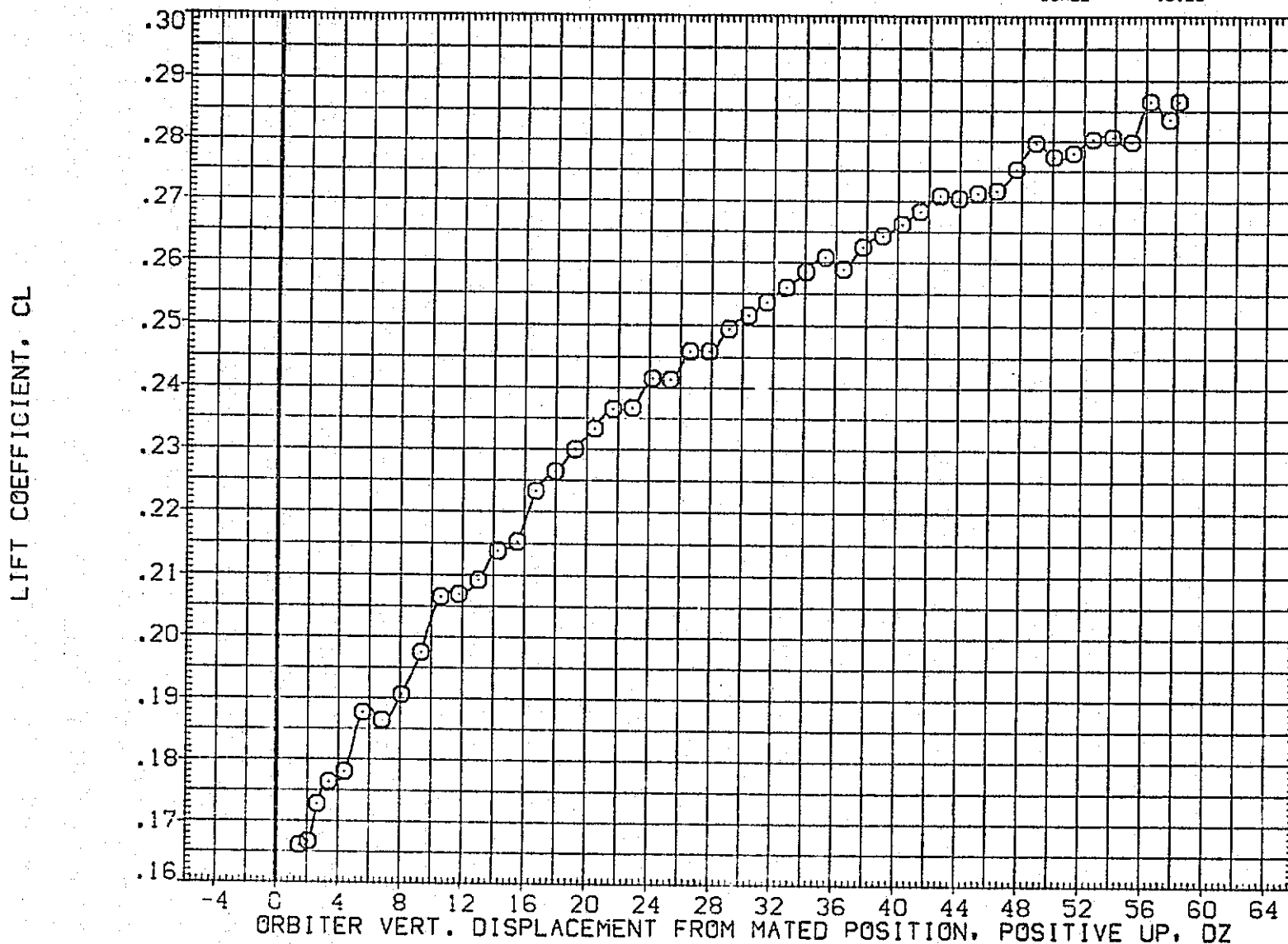


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE076)

SYMBOL
○

MACH
.599

PARAMETRIC VALUES			
ALPHAC	2.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	.000	DX	.000
DY	.000	IORB	8.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO. T.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

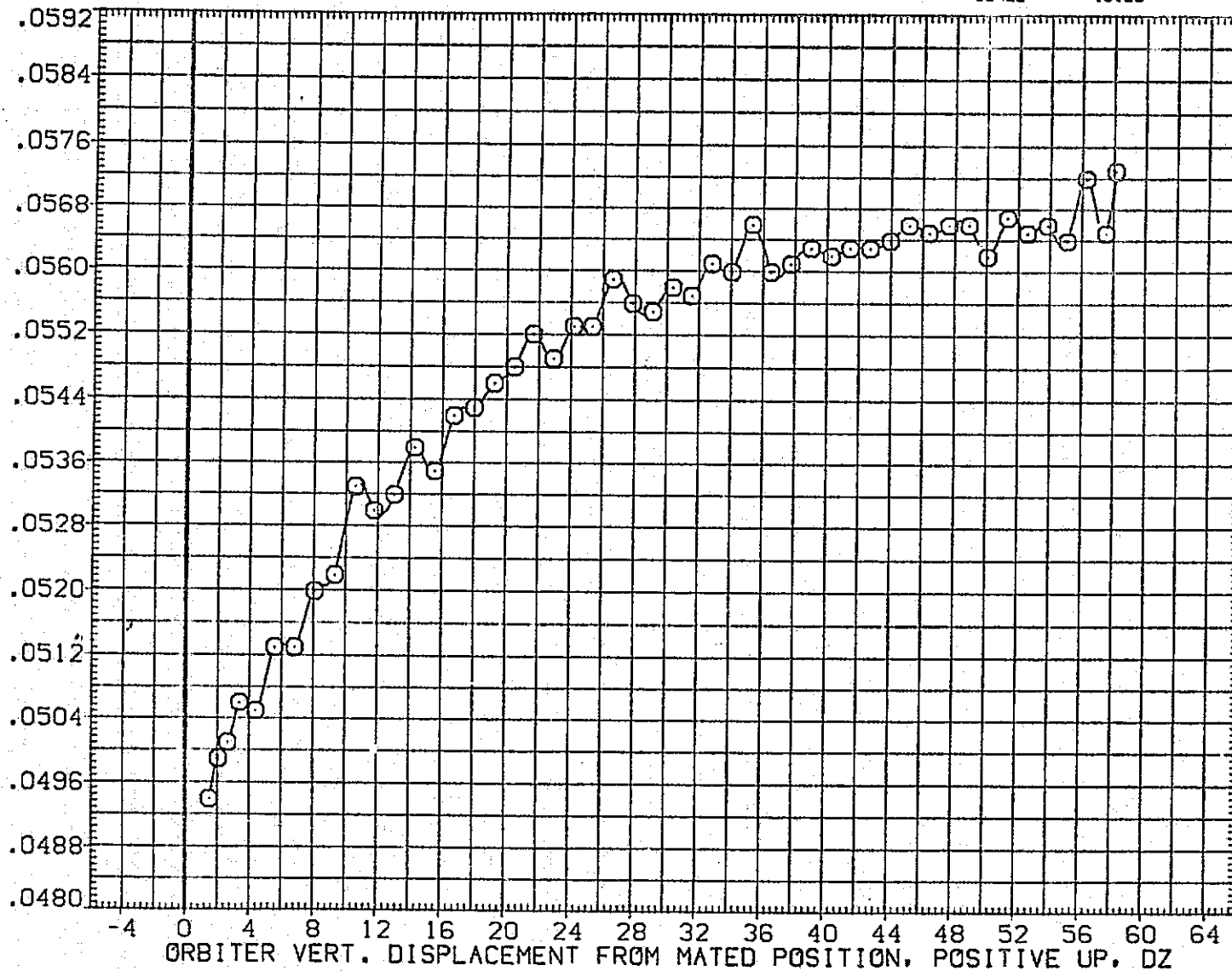


FIG.180 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE076

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE077)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.602	2.000	.000	10.000	.000	5500.0000	327.7800	IN.
		5.000	.000	.000	.000	2348.0400	1338.9000	IN.
		.000	.000	6.000	.000	XMRP	YMRP	IN. XC
		.000	.000	.000	.000	190.7500	SCALE	IN. YC
		.000	.000	.000	.000			IN. ZC

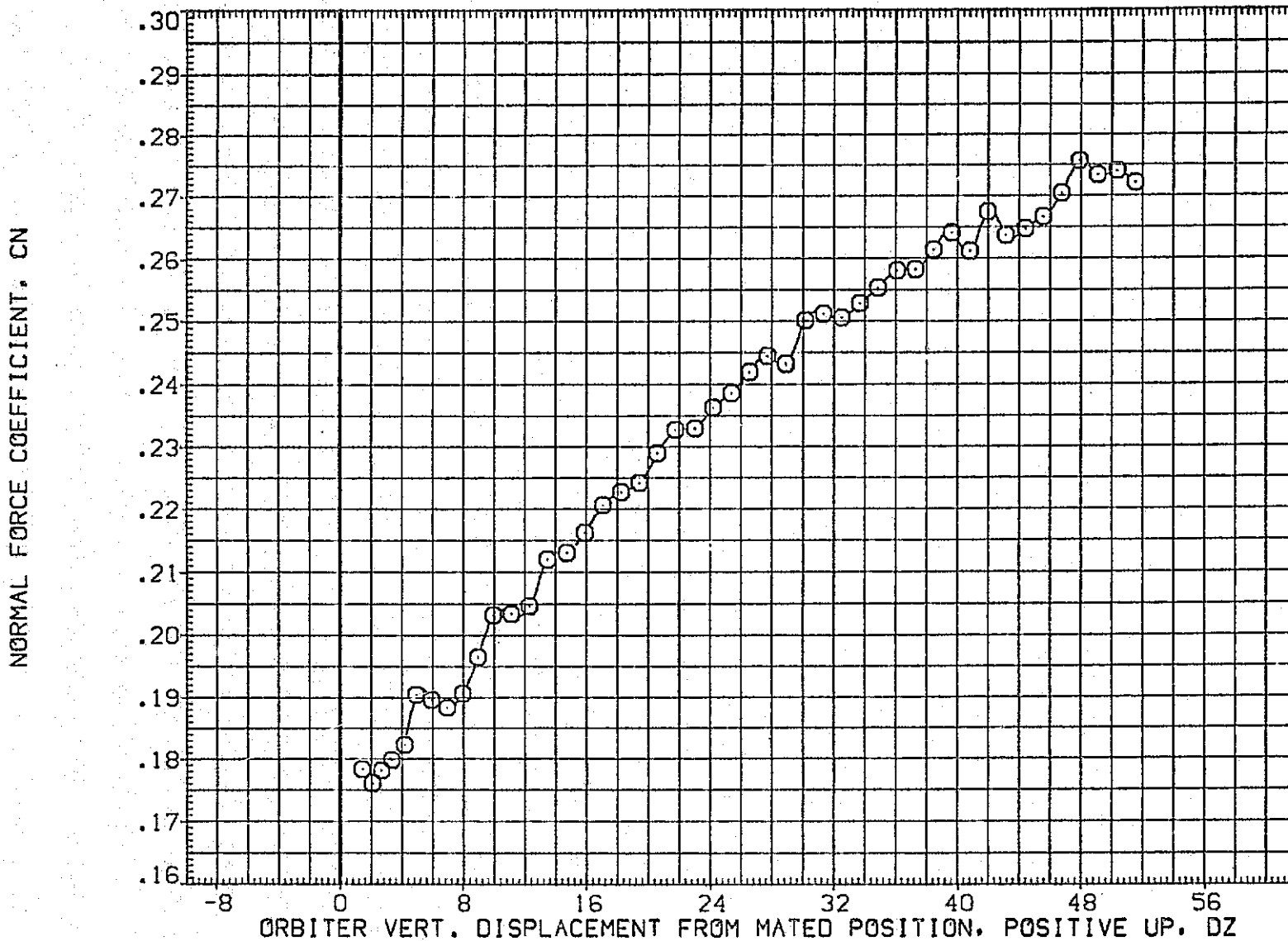


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE077

SYMBOL	MACH	PARAMETRIC VALUES					
○	.602	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	ELEVON	10.000		
		BDFLAP	.000	DX	.000		
		DY	.000	IORB	6.000		
		BETAD	.000	RUDDER	.000		

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

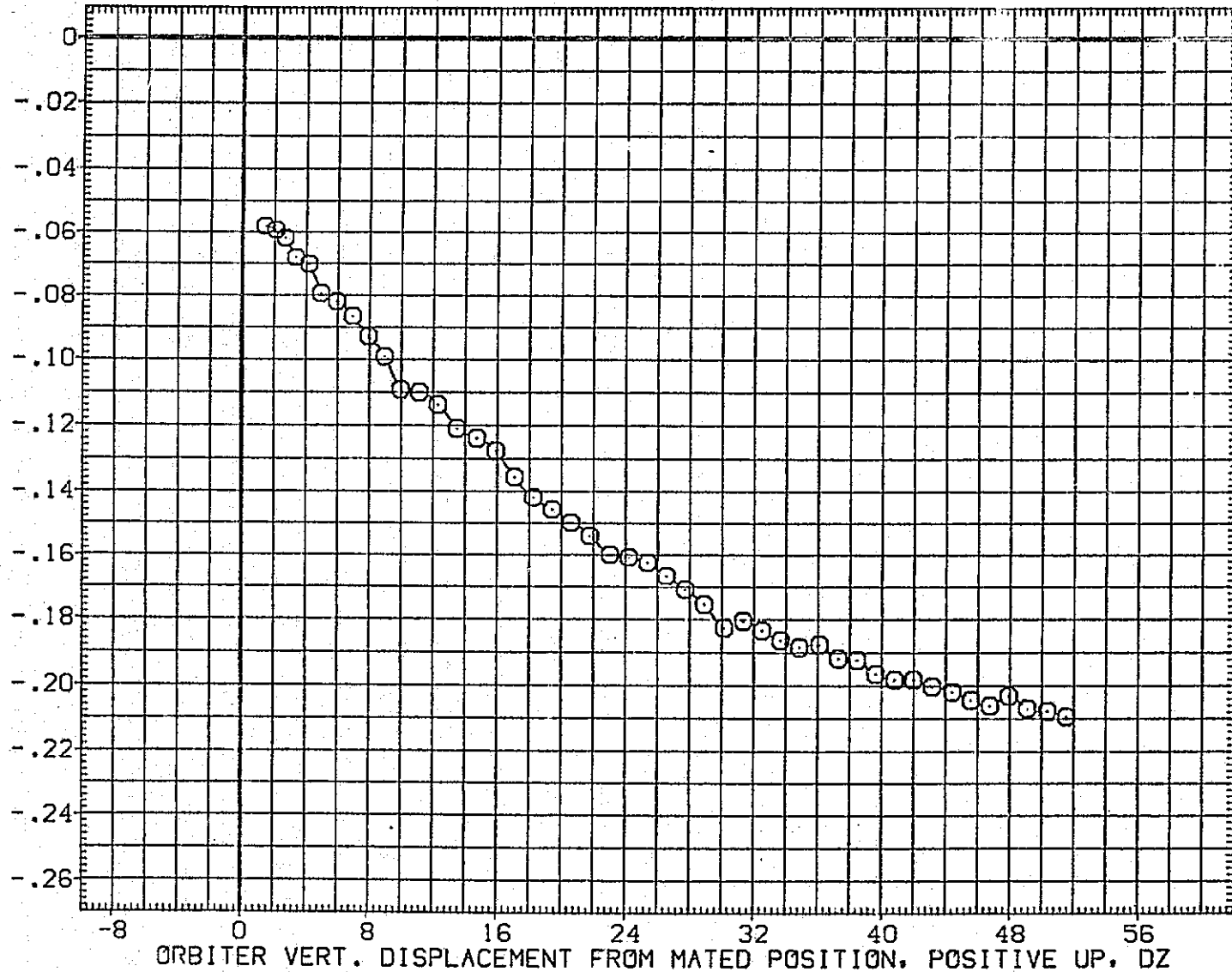


FIG.181 CARRIER DATA, OR3. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETAD=0, RFE077

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE077)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	10.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

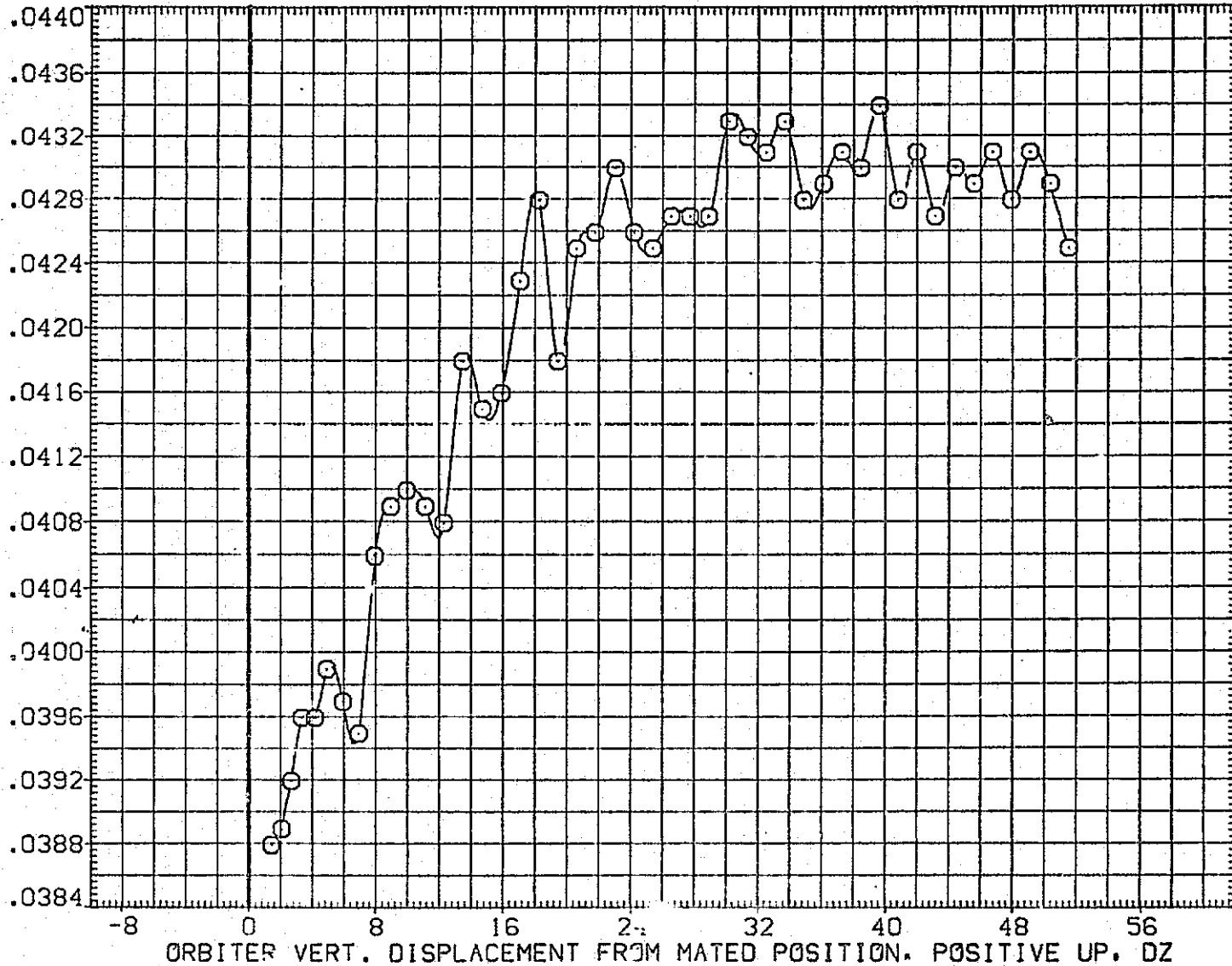


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE077

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	10.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

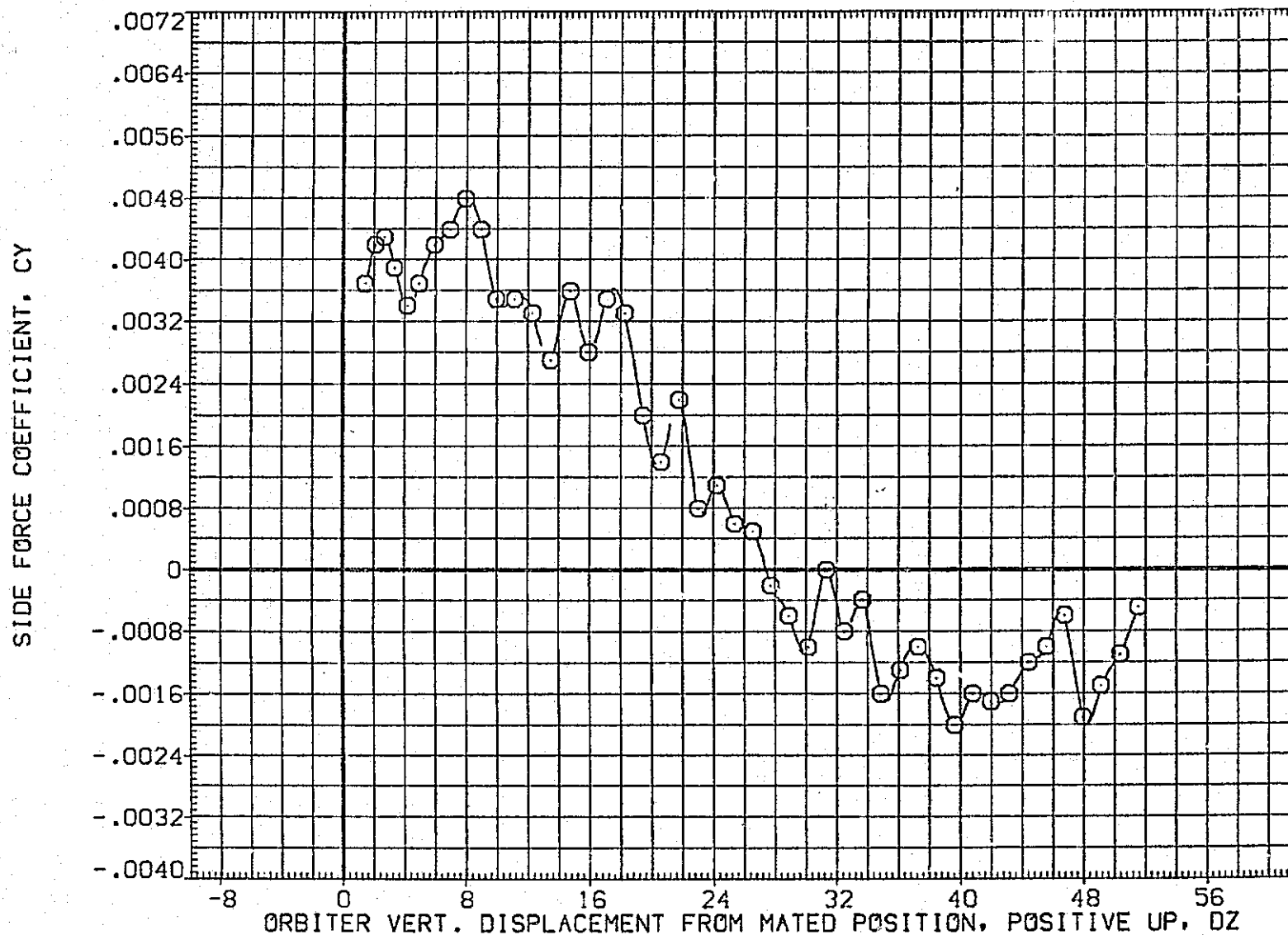


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE077

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE077)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	9500.0000	SO.FT.
		STAB	5.000	ELEVON	10.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	ICRB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

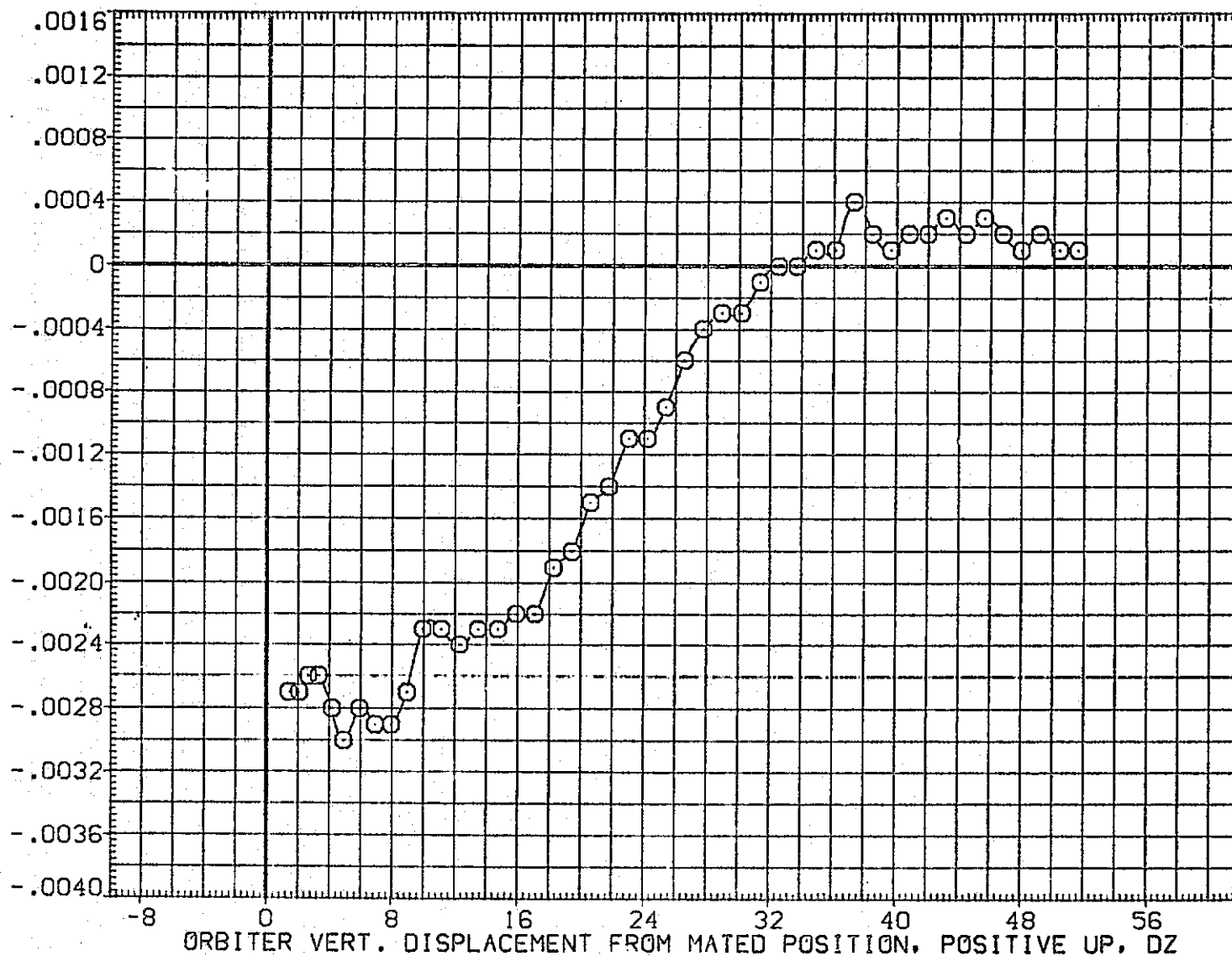


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=0, BETA0=0, RFE077

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	9500.0000	SQ.FT.
		STAB	5.000	ELEVON	10.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

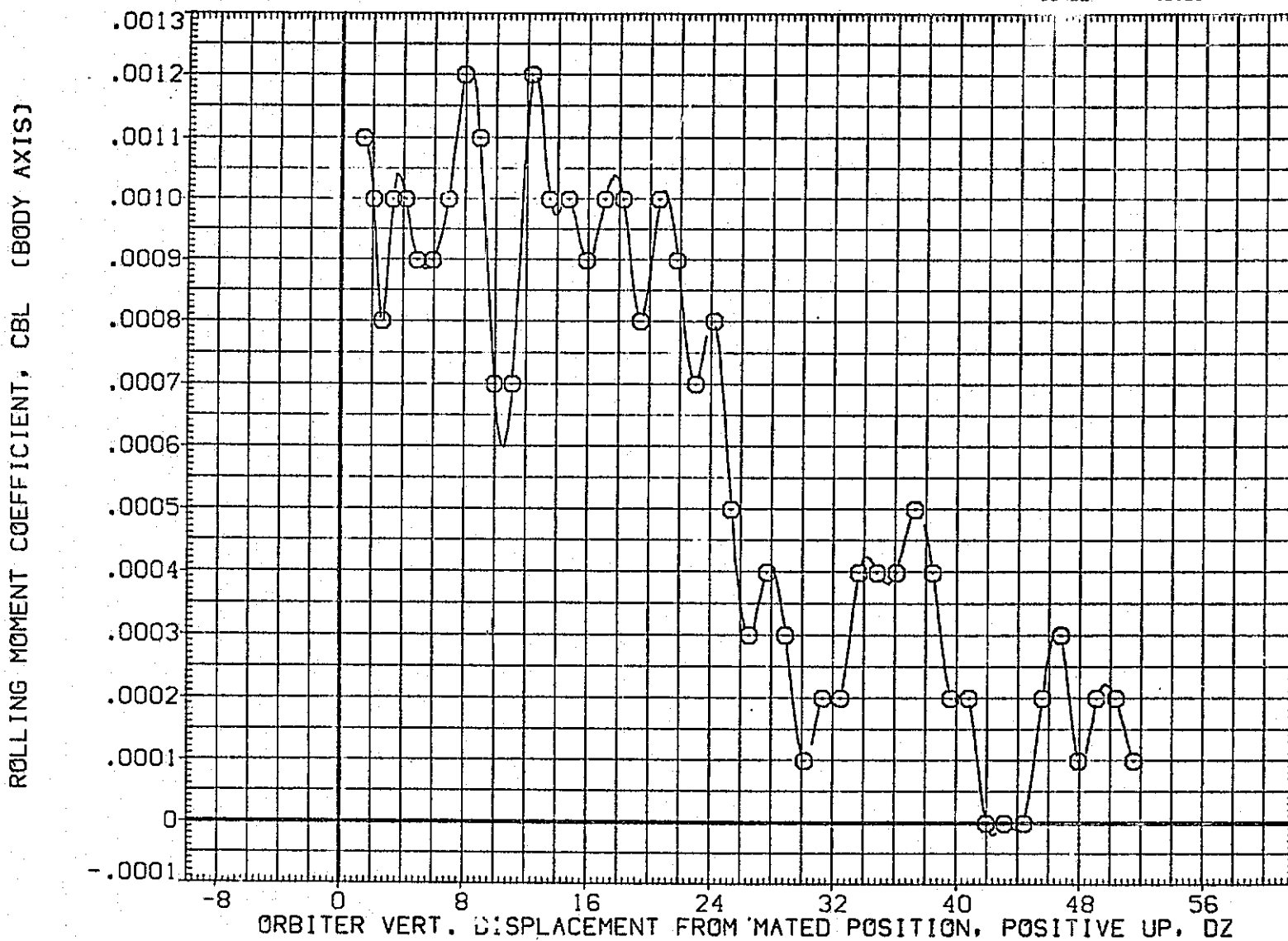


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE077

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE077)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	10.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BRE	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

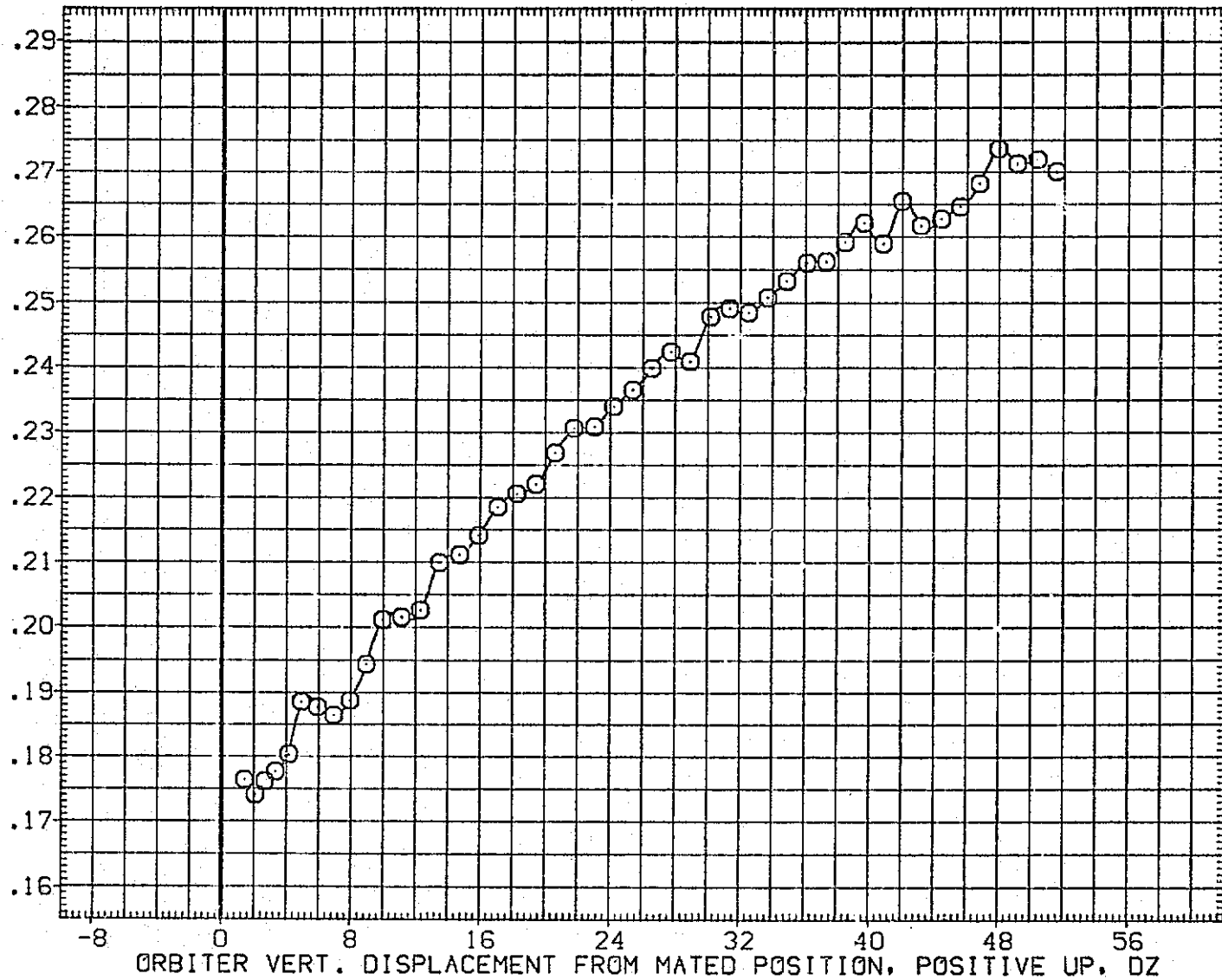


FIG.181 CARRIER DATA, OPB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE077

SYMBOL

○

MACH

.602

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

.000

STAB

5.000

ELEVON

10.000

BOFLAP

.000

DX

.000

DY

.000

ICRB

6.000

BETA0

.000

RUDDER

.000

REFERENCE INFORMATION

SREF

5900.0000

SQ.FT.

LREF

327.7000

IN.

BREF

2348.0400

IN.

XMRP

1339.9000

IN. YC

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

DRAG COEFFICIENT, CD

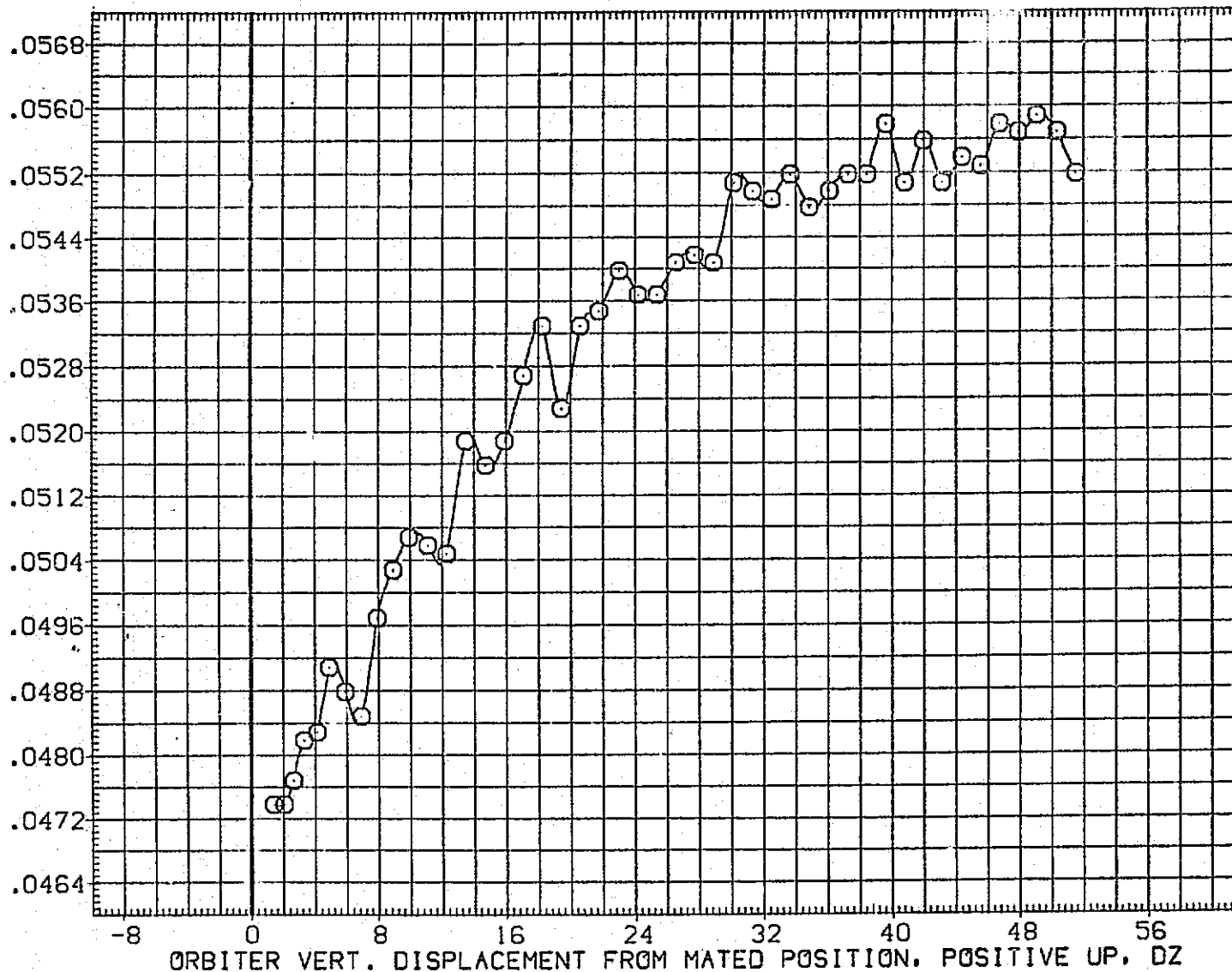


FIG.181 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=0, BETA0=0, RFE077

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE078)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILRON	-5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETAG	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

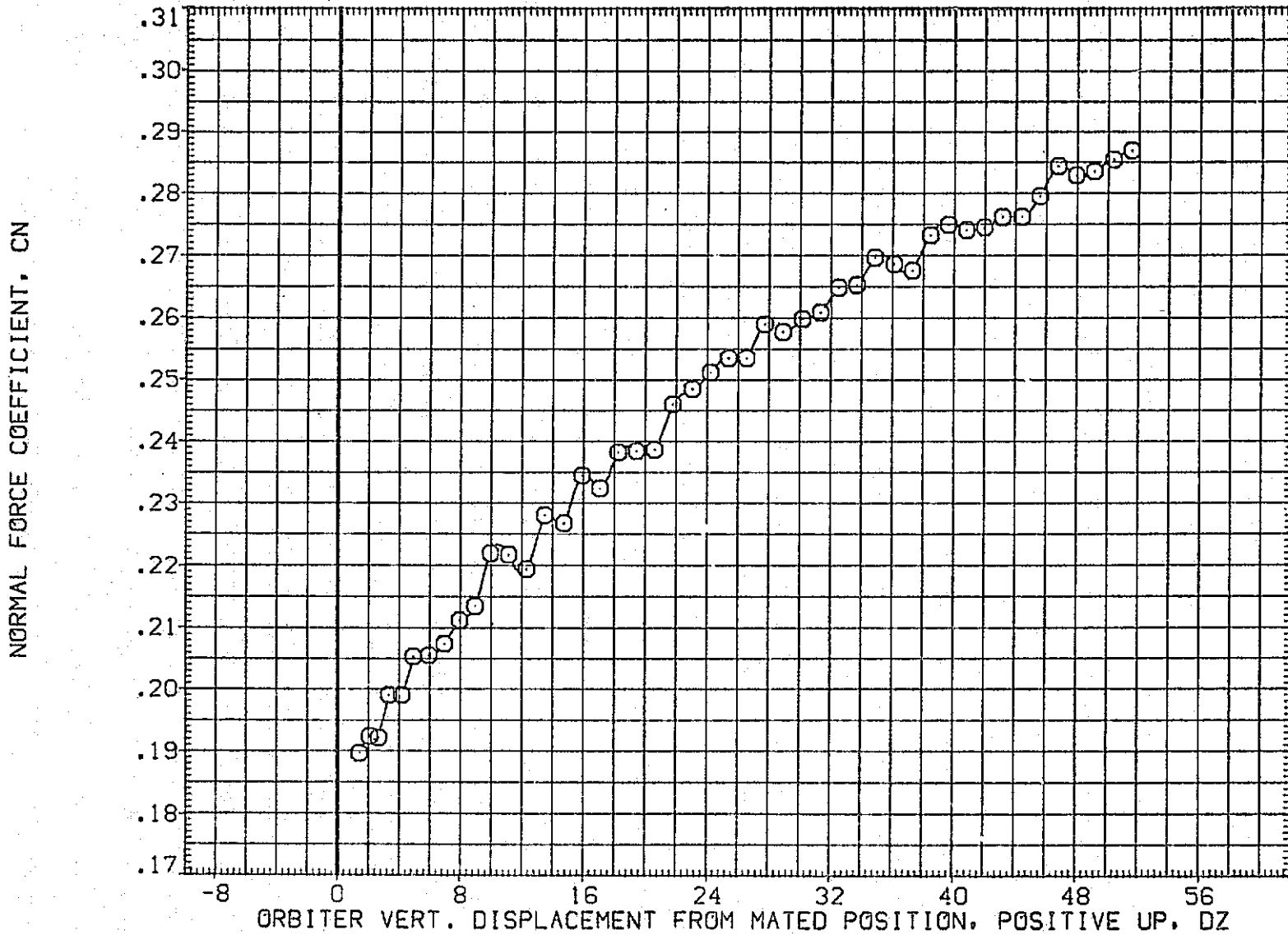


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETAG=0, AILRON=-5, RFE078

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
					00

REFERENCE INFORMATION		
SREF	5500.0000	SQ. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

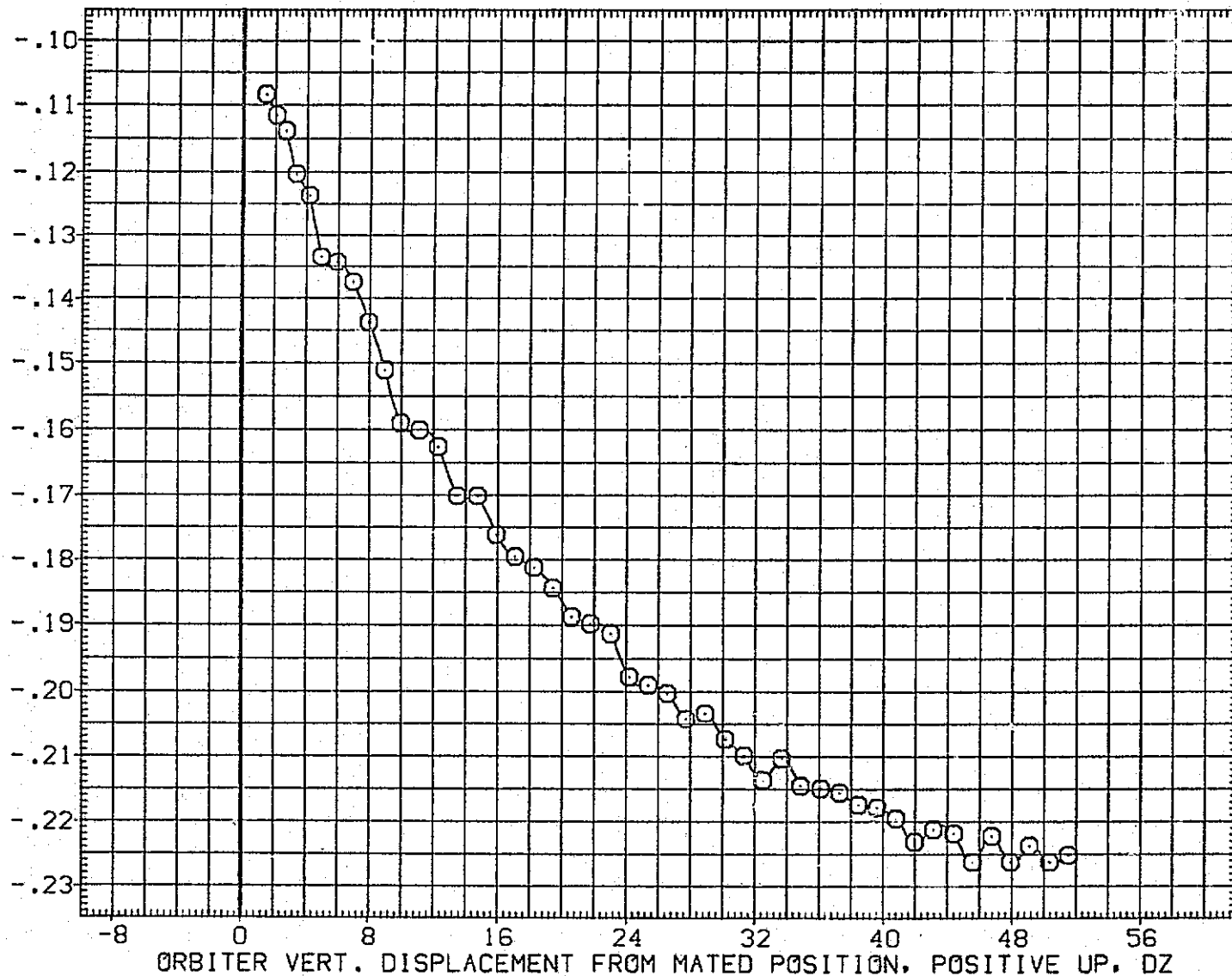


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE078)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILRON	-5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

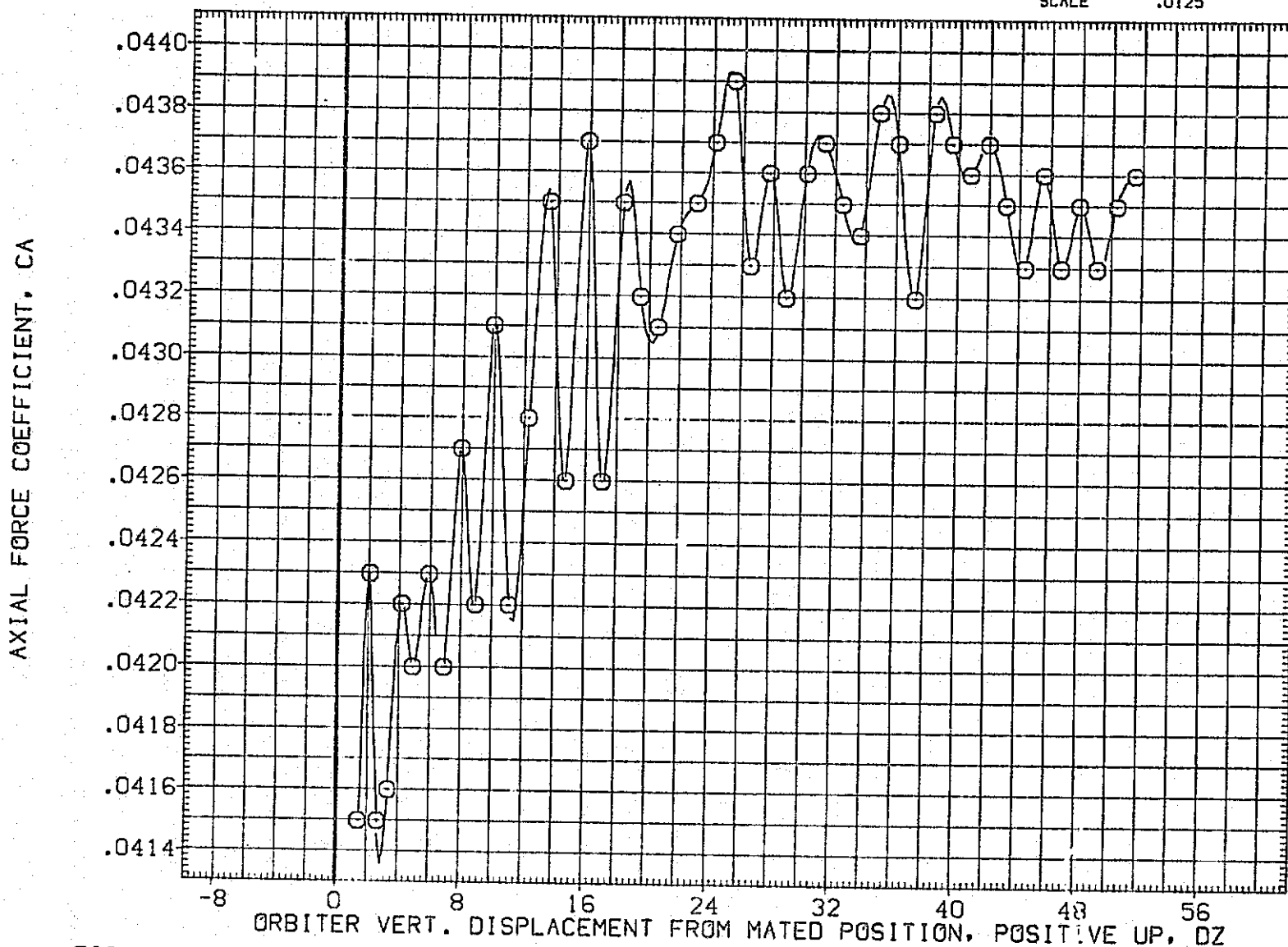


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		AILRON	-5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

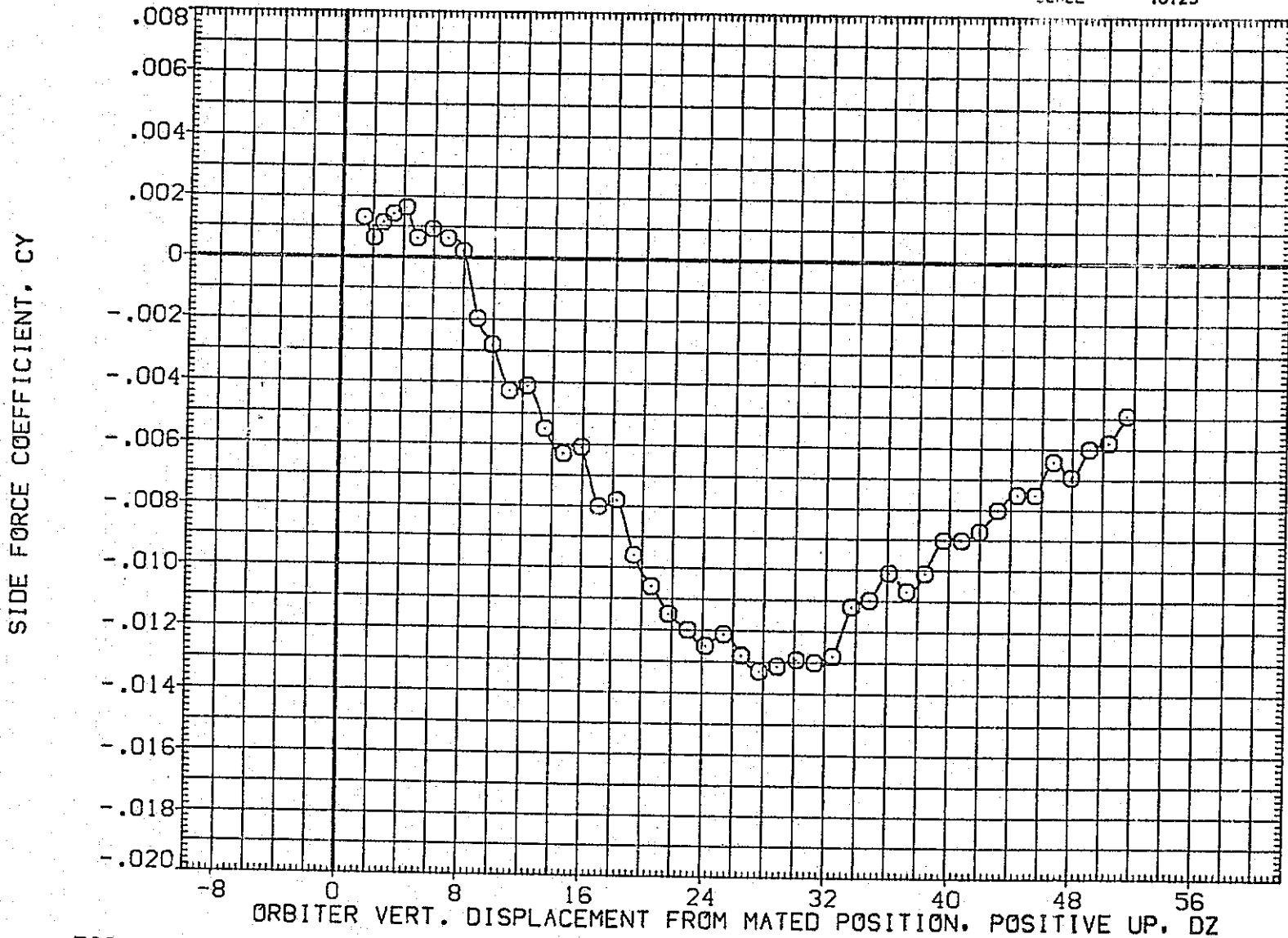


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE078)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		AILRON	-5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

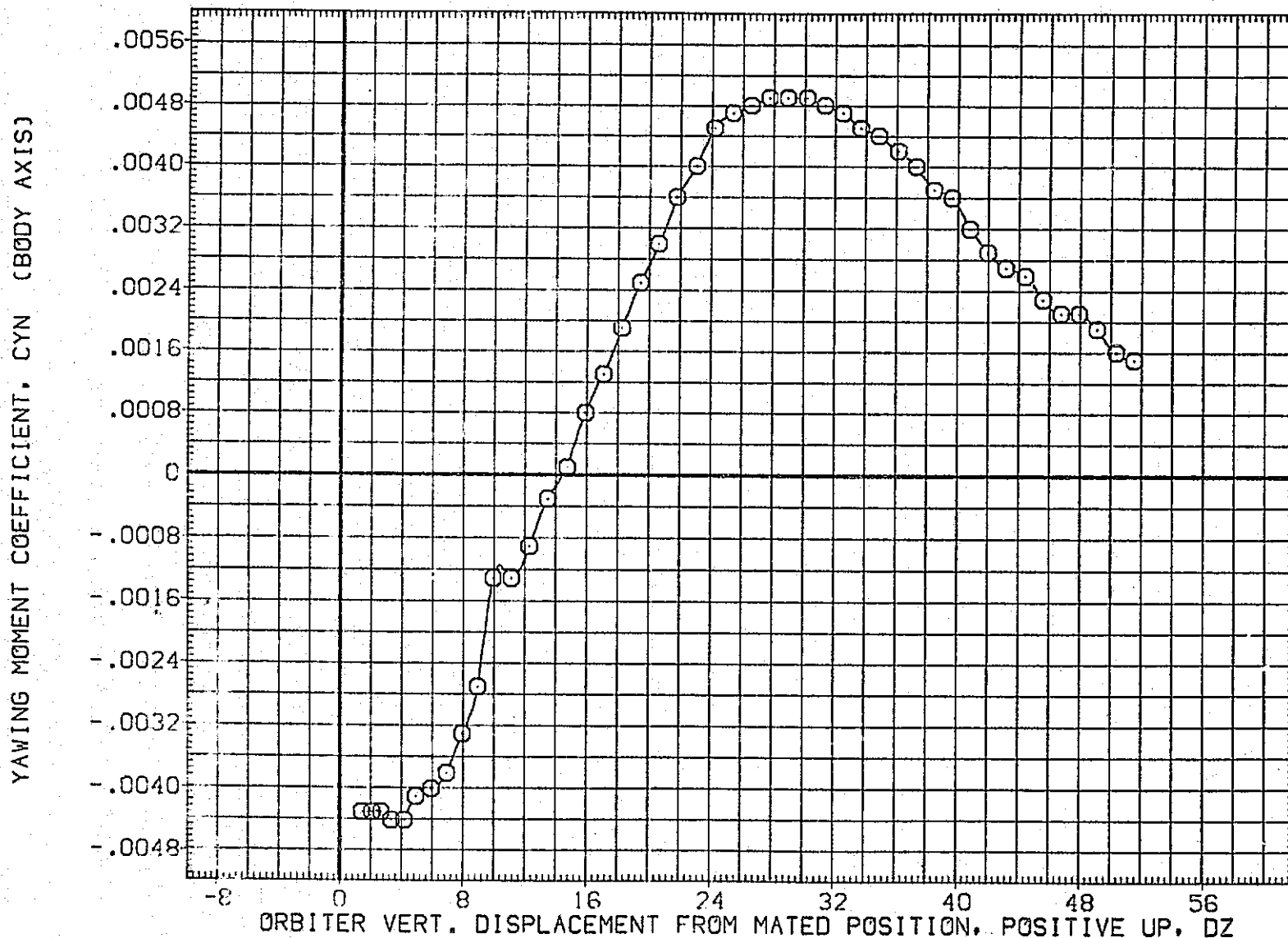


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		SIAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILRON	-5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

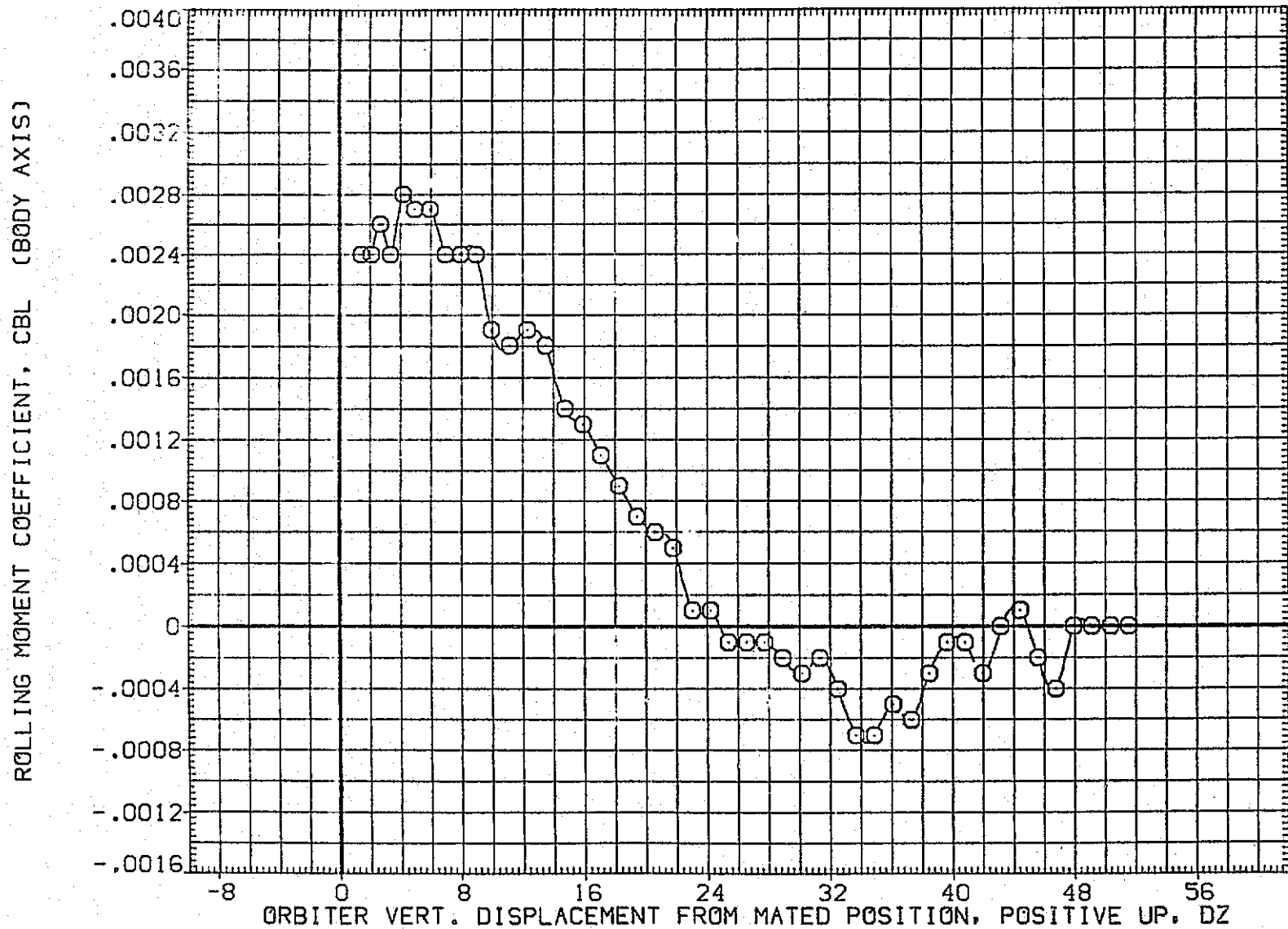


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE078)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	AILRON	-5.000	FX	.000
	DY	.000	IORB	6.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7000	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

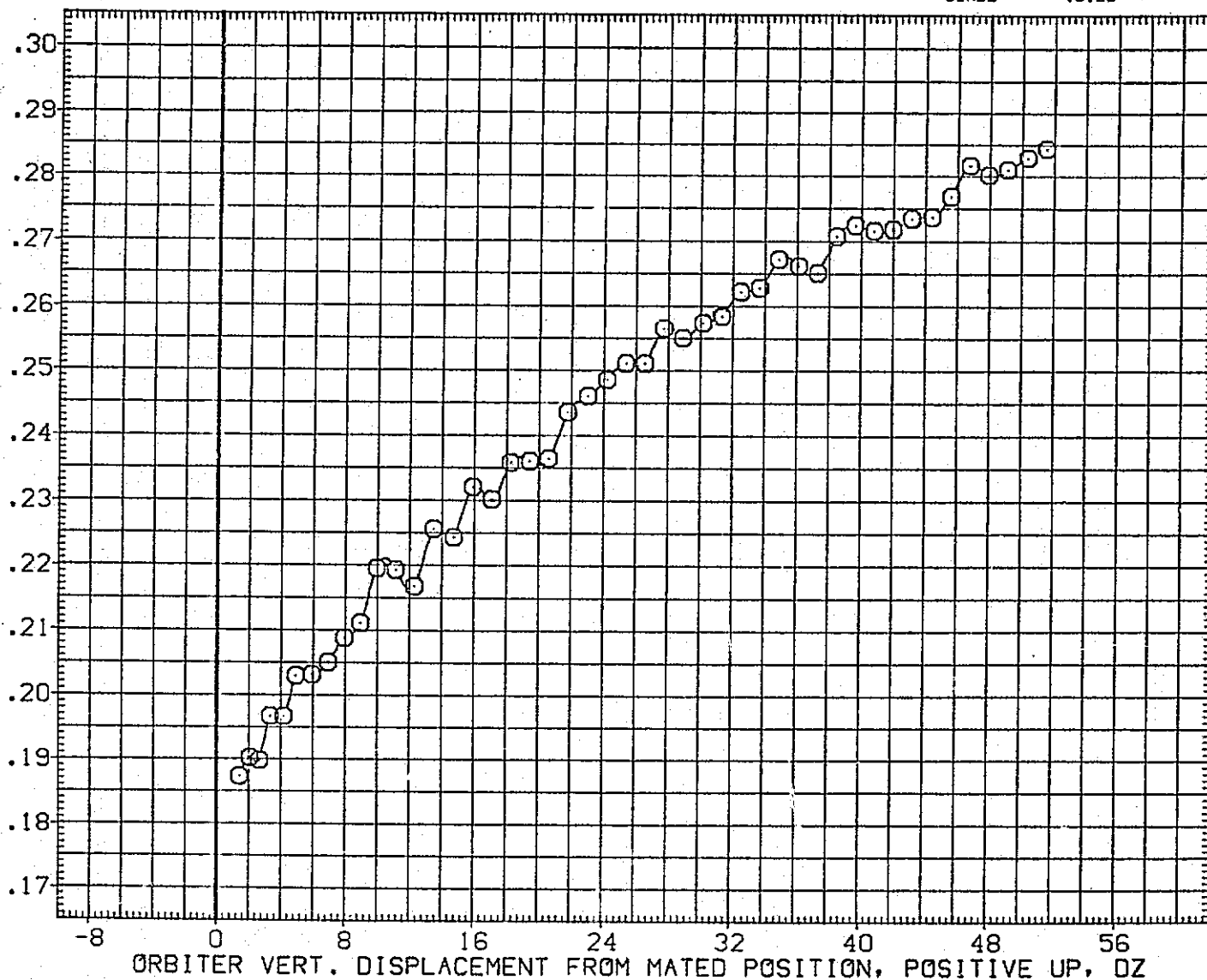


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		AILRON	-5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7900	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

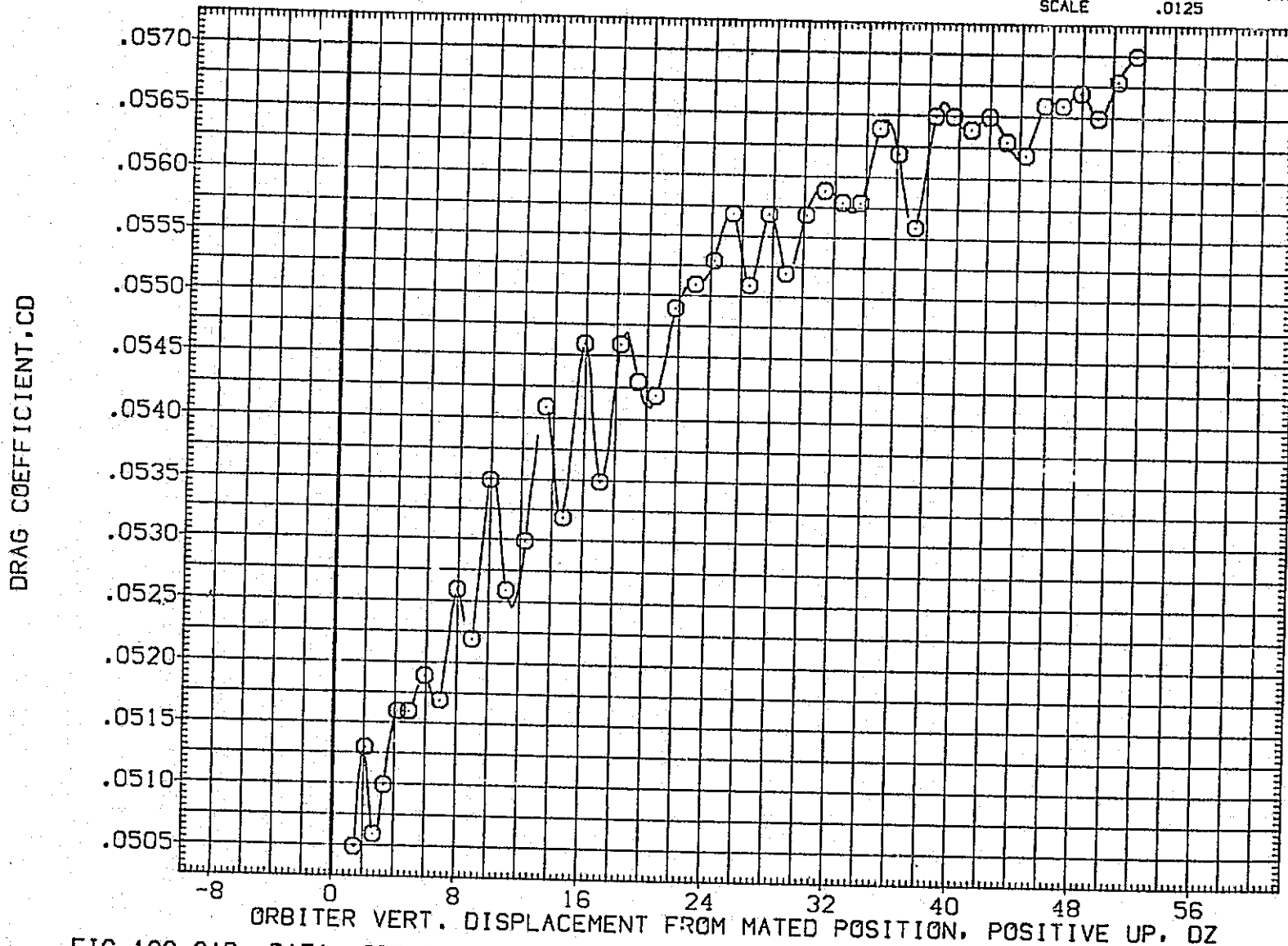


FIG.182 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, AILRON=-5, RFE078

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE079)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	5.000	OX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

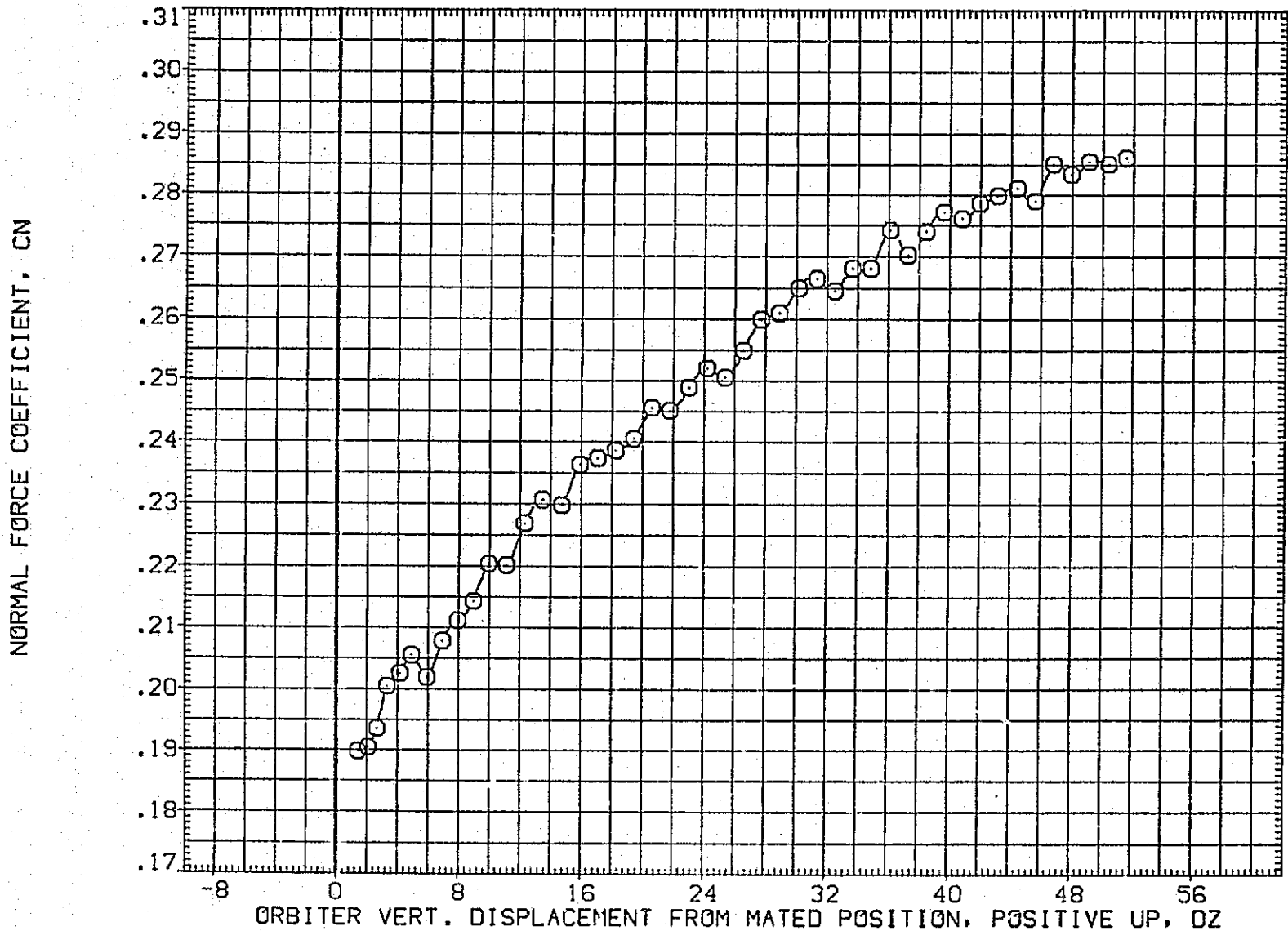


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE079)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	5.000	DX	.000	BREF	2349.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

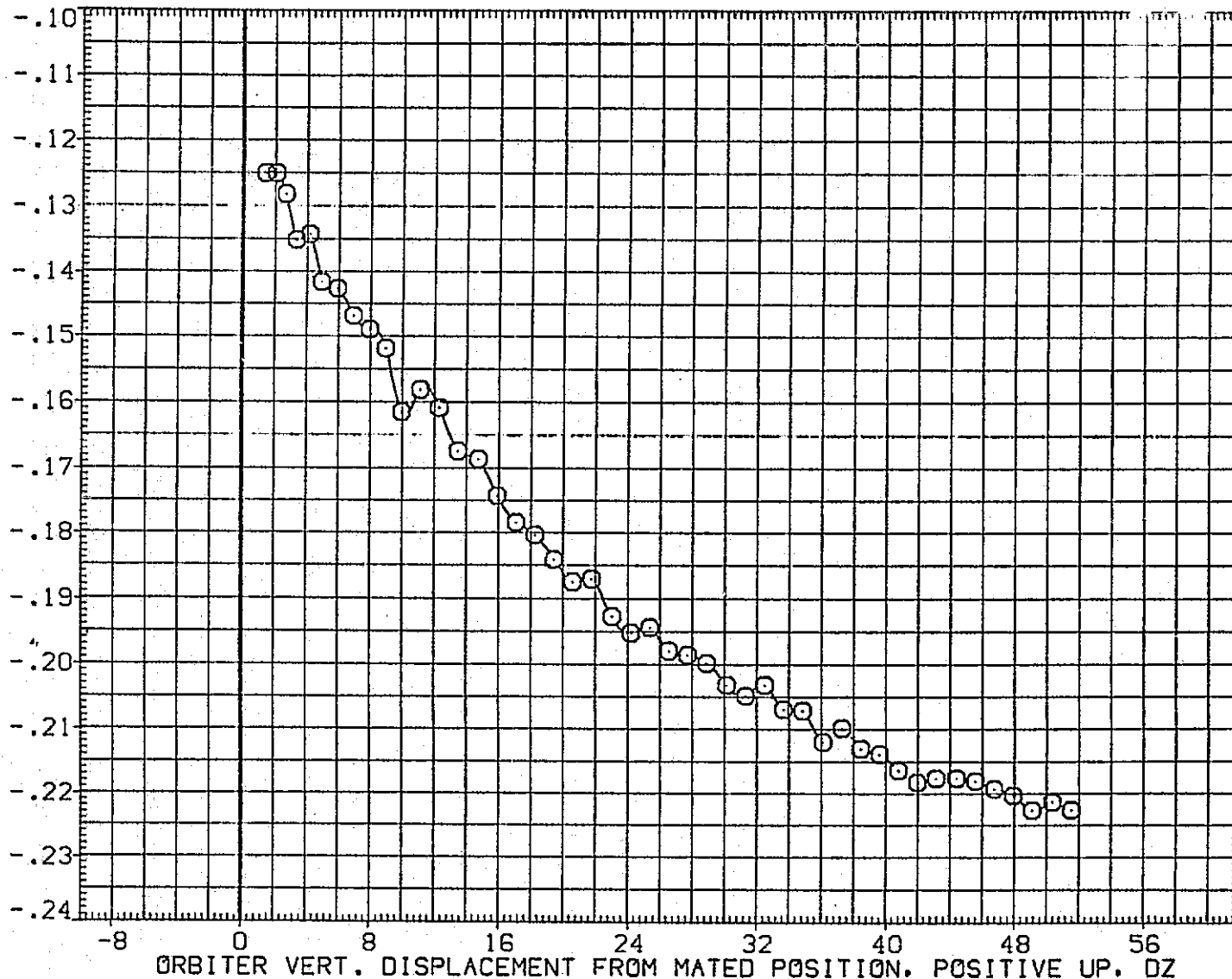


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE079)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	10.000
		ELEVON	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

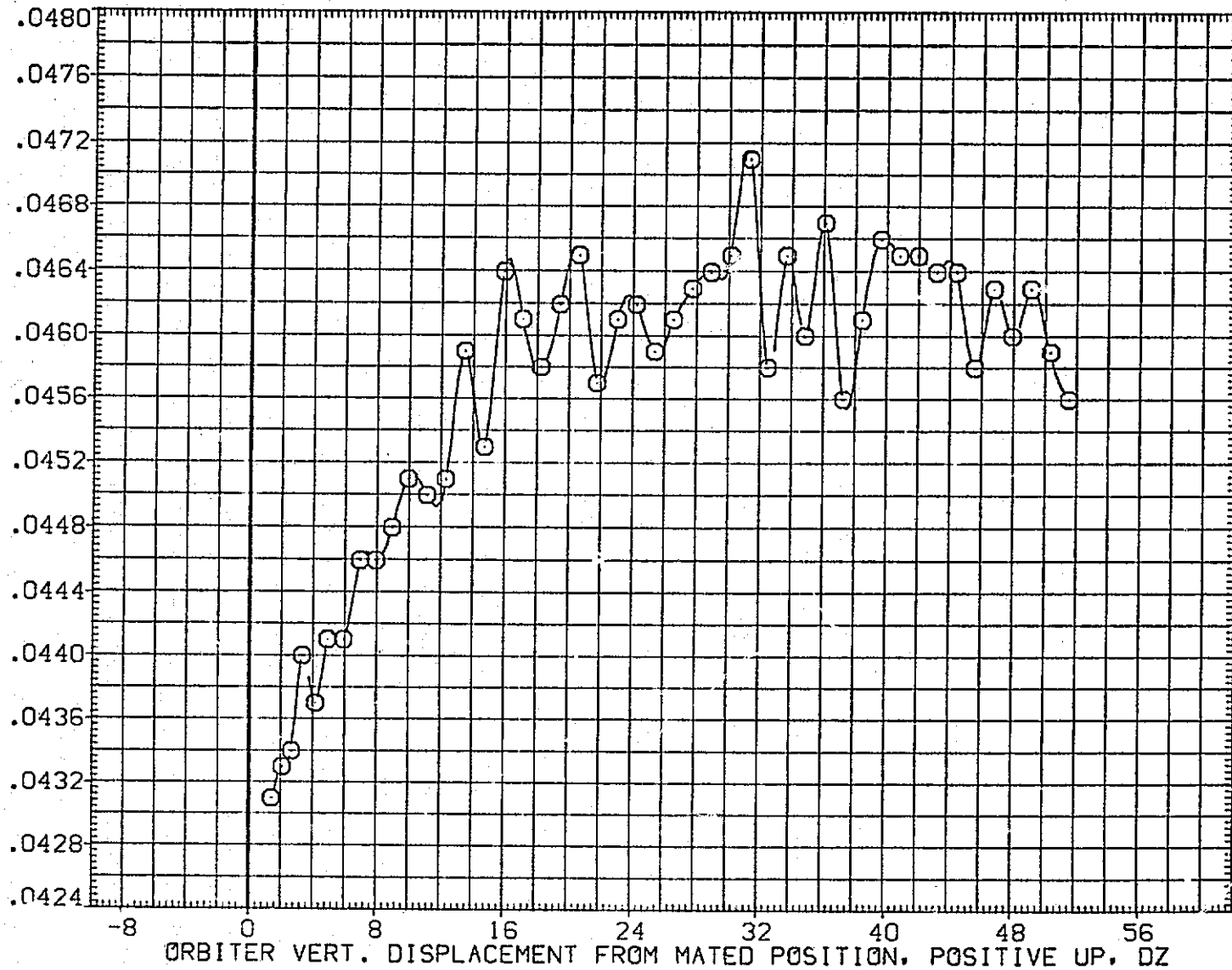


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DX	SREF	IN.	IN.
○	.599	2.000	.000	10.000	.000	7500.0000	60.00	
		5.000	.000	6.000	.000	327.7300	IN.	
		5.000	.000	6.000	.000	2348.0400	IN.	
		.000	.000	6.000	.000	1339.9000	IN.	XC
		.000	.000	6.000	.000	YMRP	IN.	YC
		.000	.000	6.000	.000	ZMRP	IN.	ZC
		.000	.000	6.000	.000	SCALE	.0125	

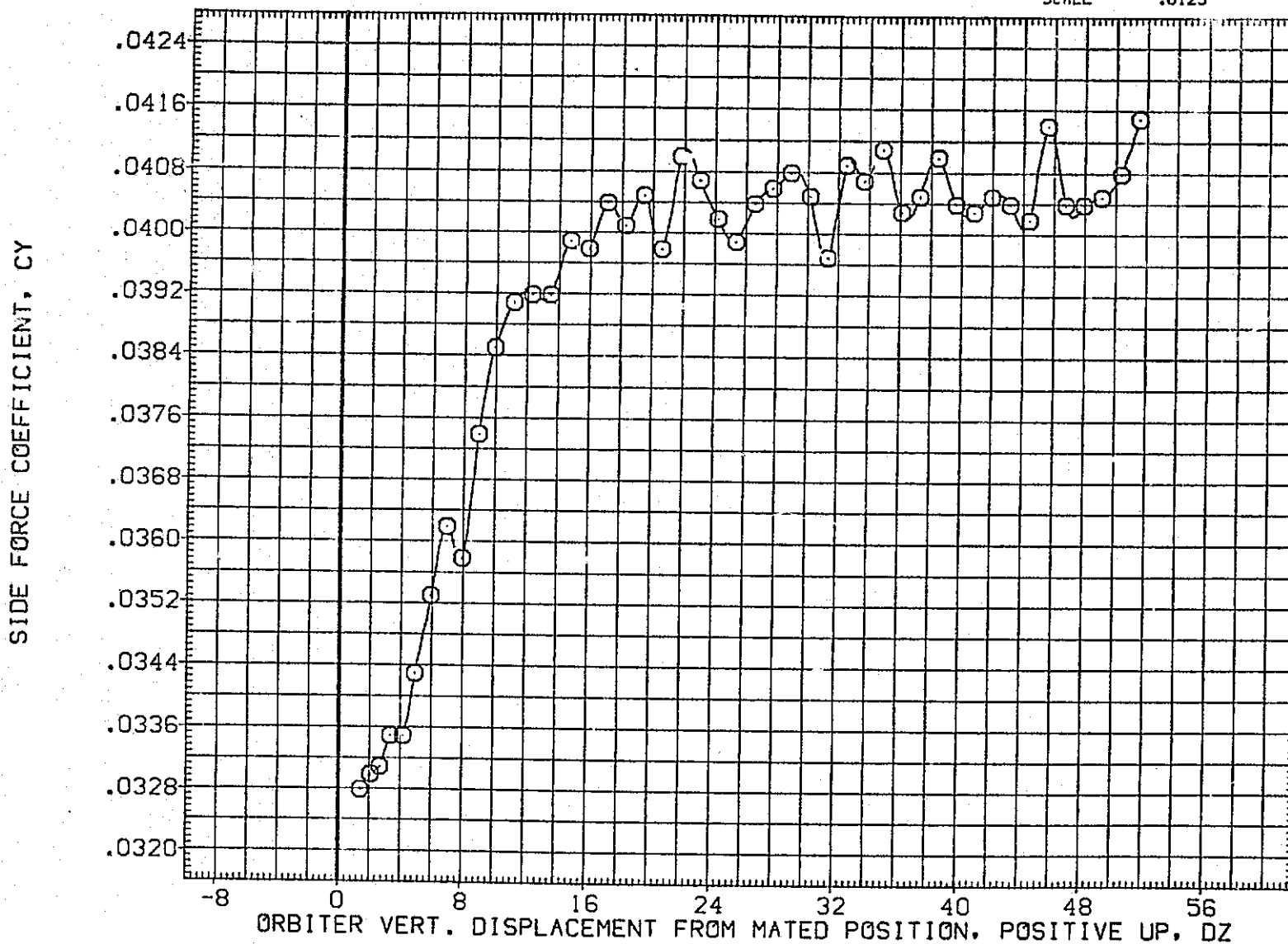


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE079)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	10.000
		ELEVON	5.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

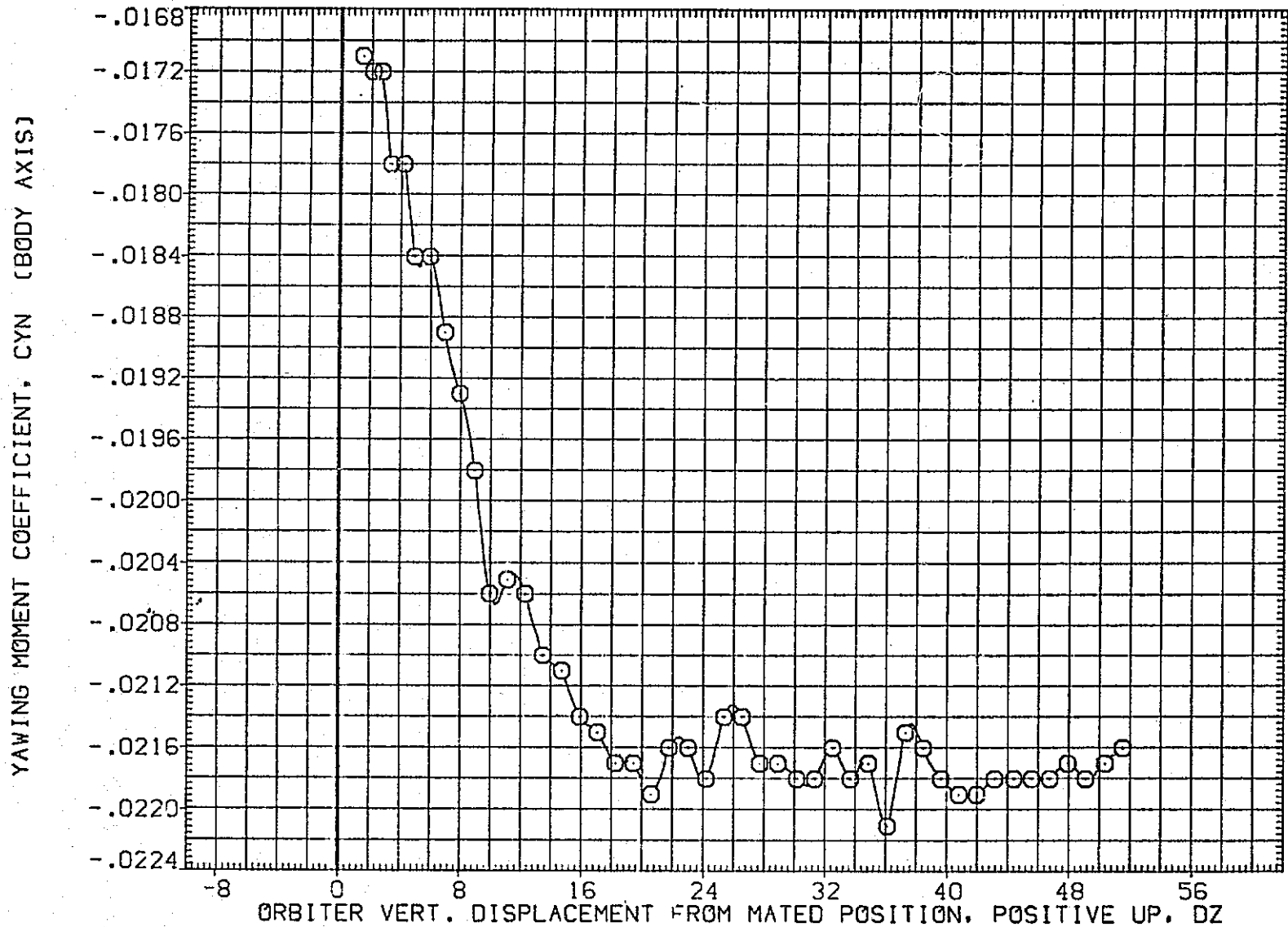


FIG.183 CAR. DATA, ORB PROXIMITY,ALPHAC=2,IORB=6,BETAC=BETA0=0, RUDDER=10, RFE079

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	10.000
		ELEVON	5.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.6400	IN.
XMRP	1339.0000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

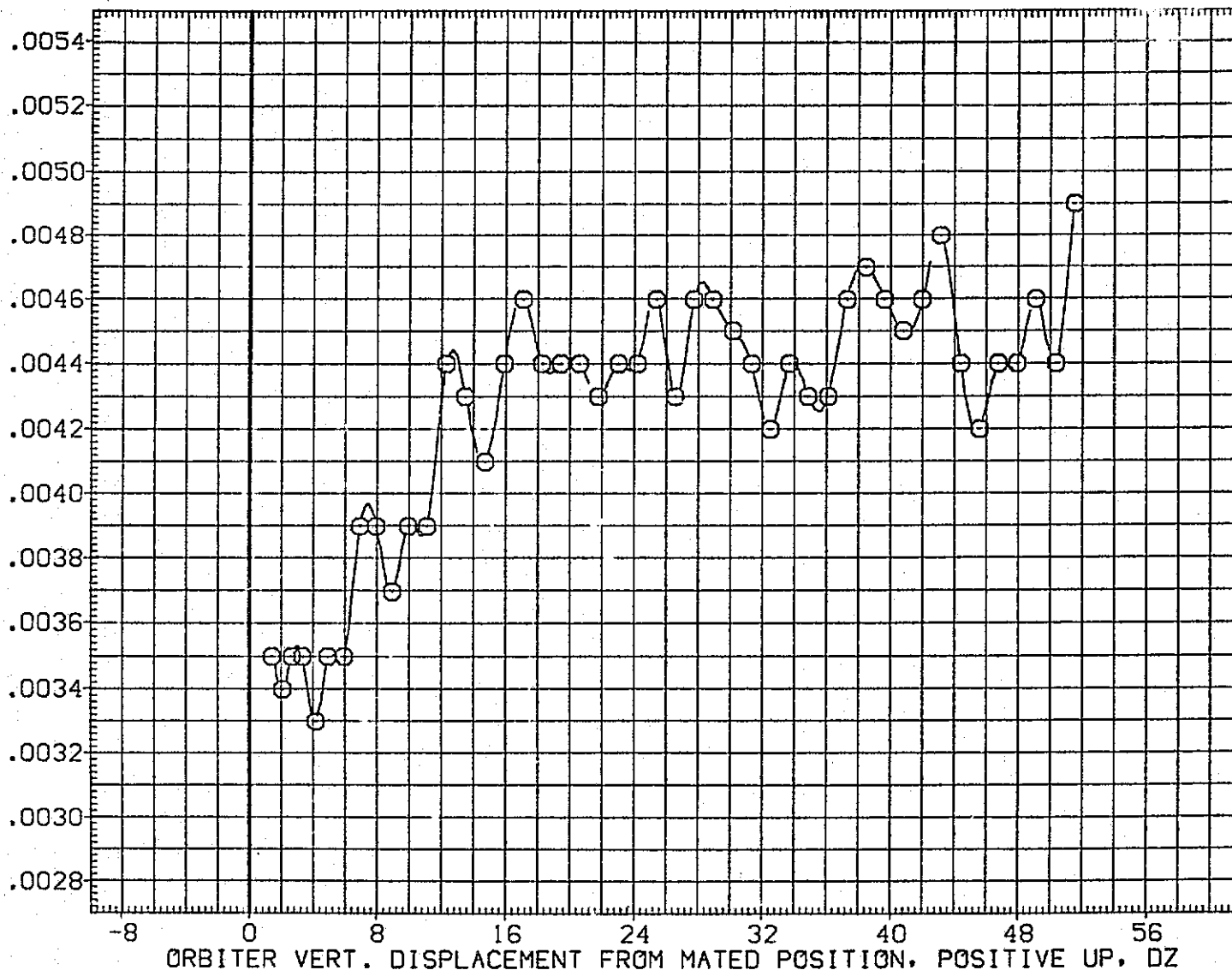


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE079)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	5.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

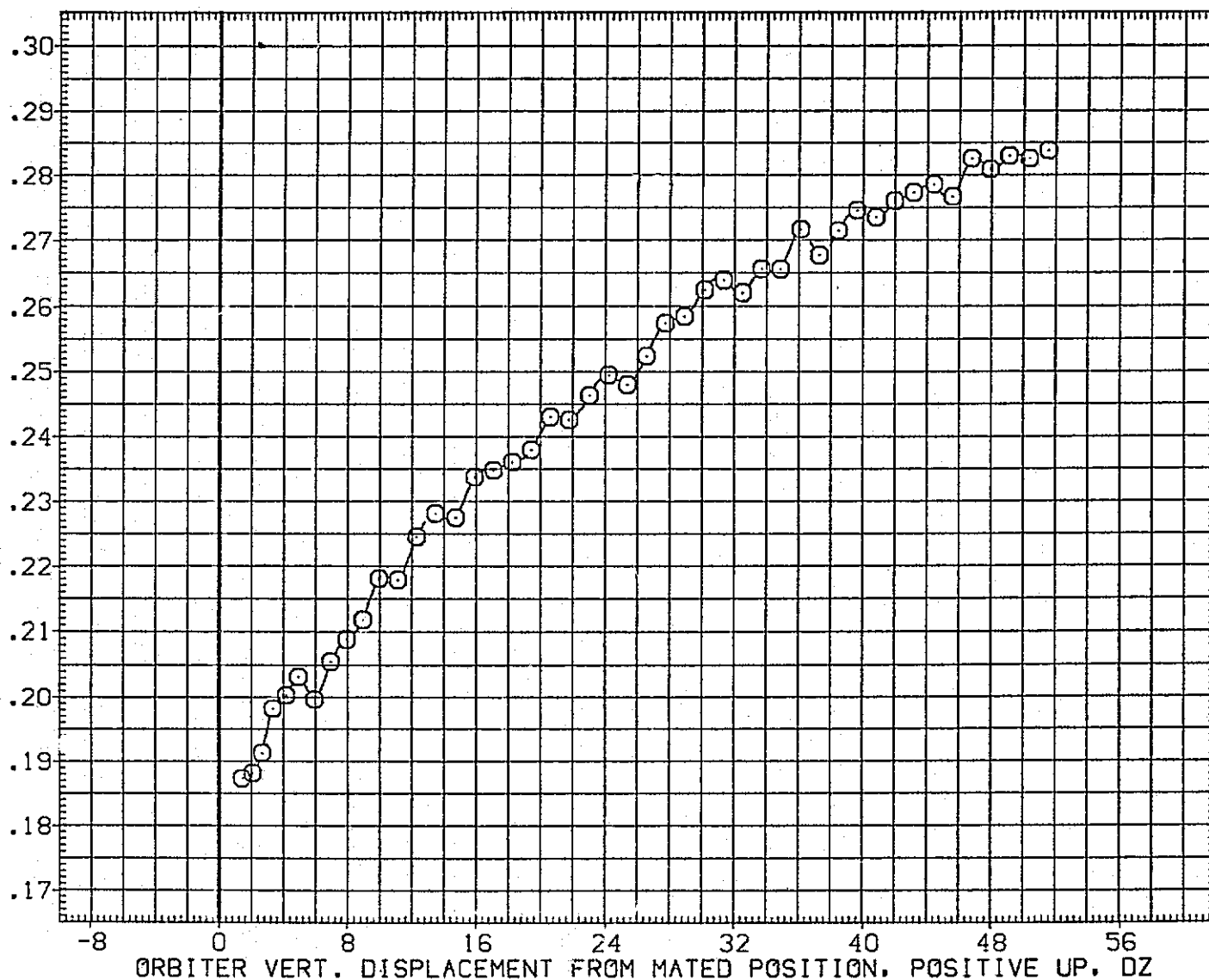


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	5.000	OX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

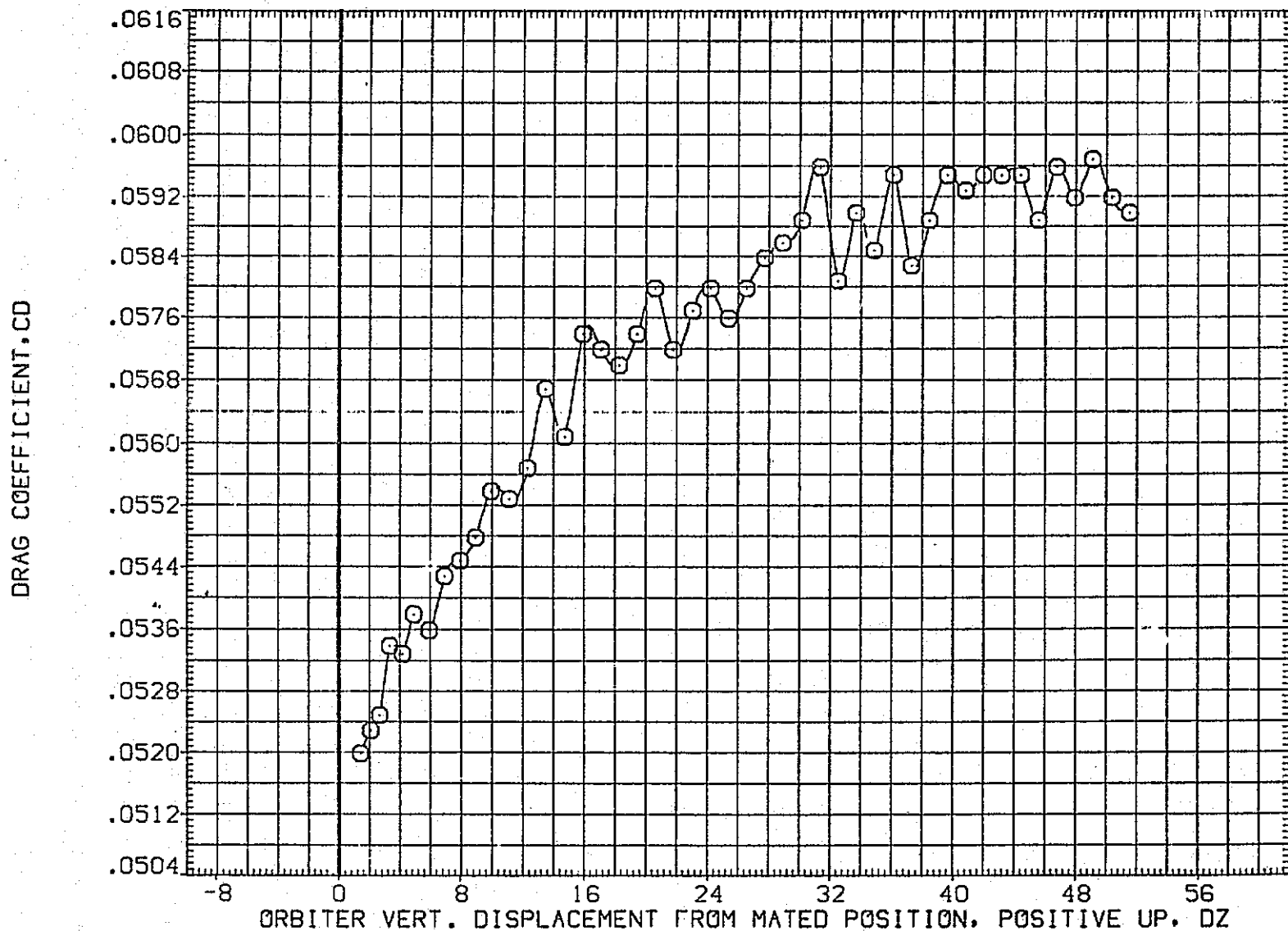


FIG.183 CAR. DATA, ORB PROXIMITY, ALPHAC=2, IORB=6, BETAC=BETA0=0, RUDDER=10, RFE079

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE080)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.589	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

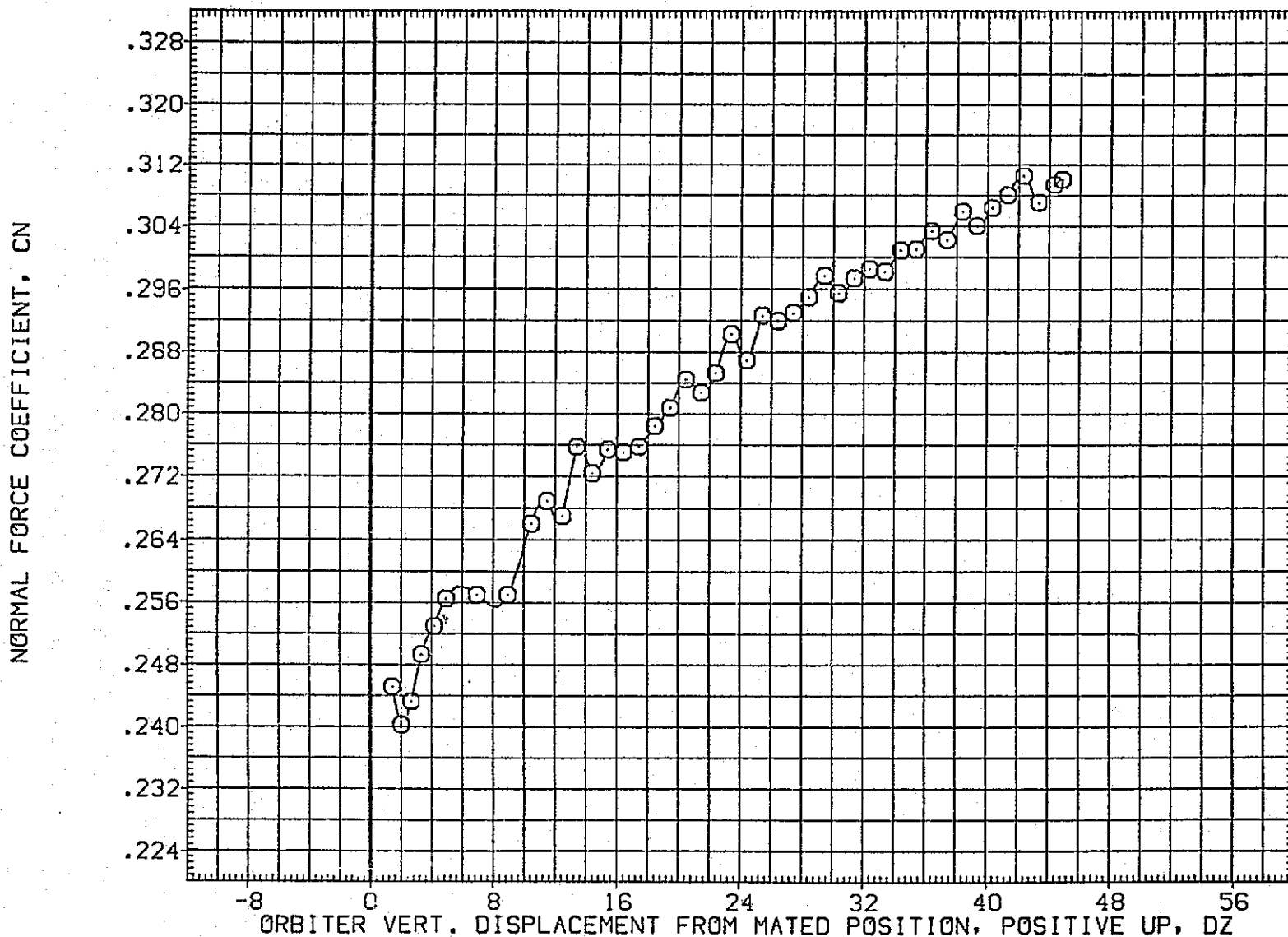


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.589	ALPHAC	2.000	BETAC	-5.000	SREF	1300.0000	SO. T.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN. XC
		DY	.000	IORB	4.000	XMRP	1338.9000	IN. YC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. ZC
						ZMRP	190.7500	IN.
						SCALE	.0125	

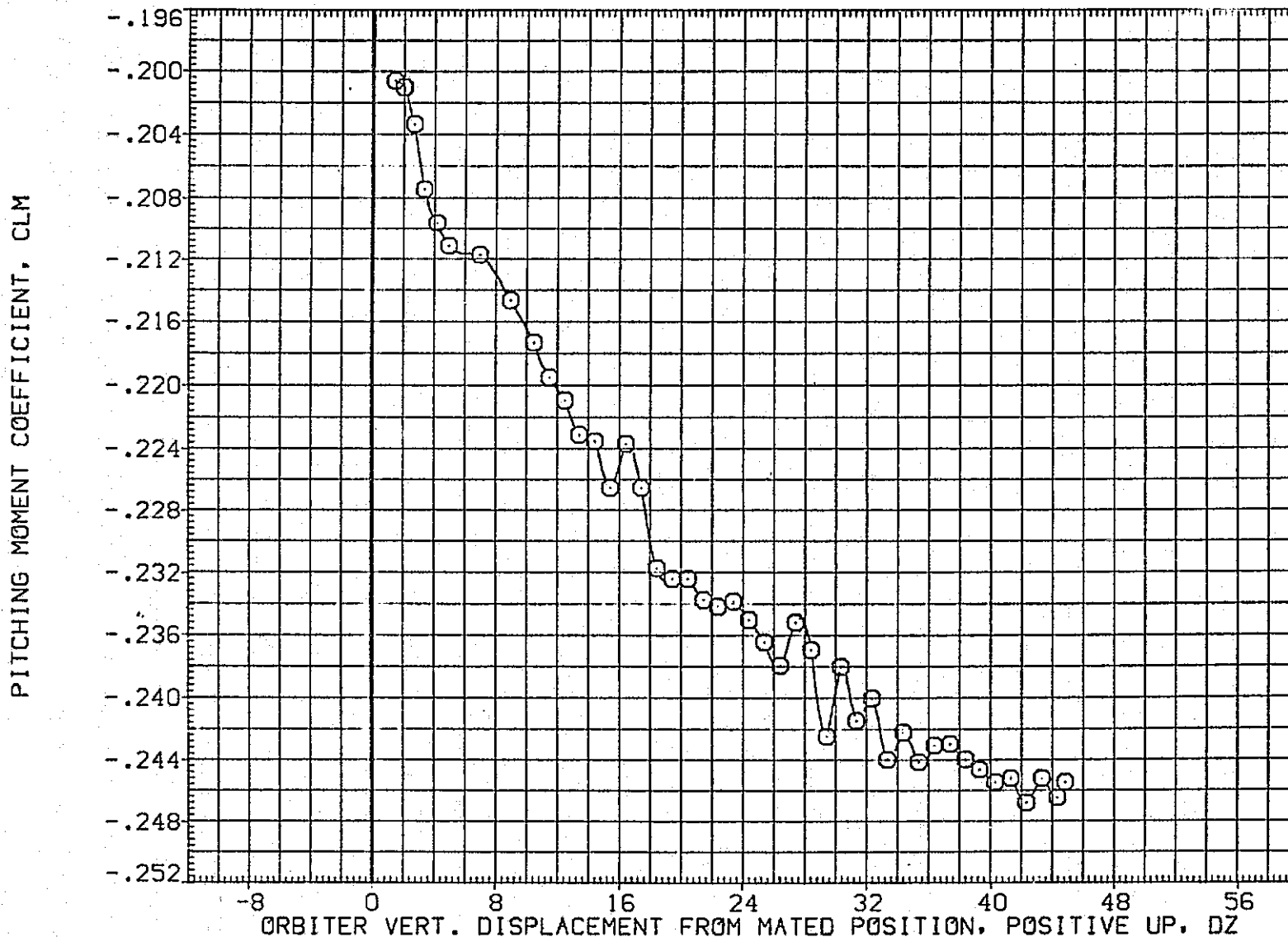


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

LTV44-559(CA26) 747/1 ATY 02 91 (CARRIER DATA) (RFE080)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.589	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

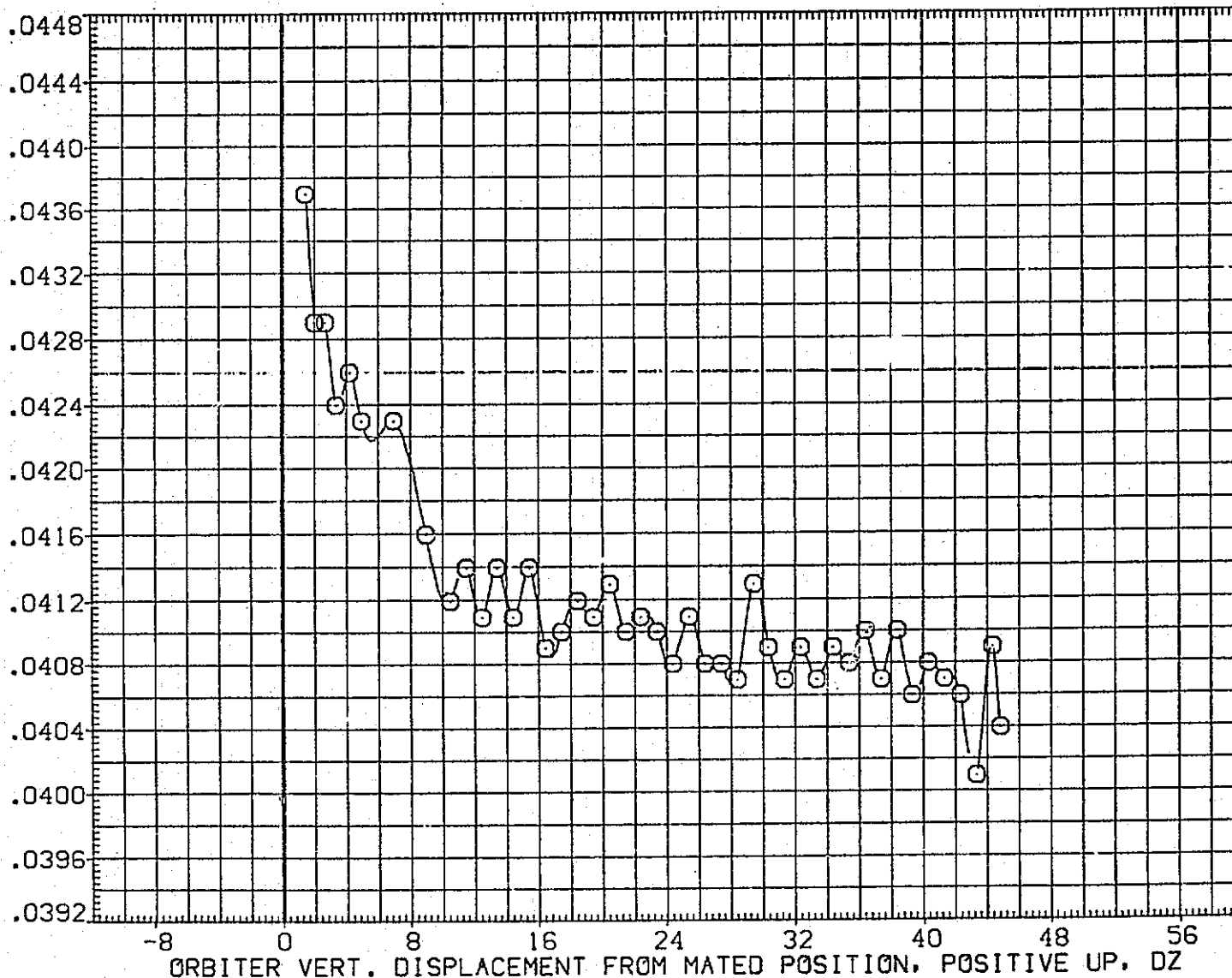


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

SYMBOL	MACH	PARAMETRIC VALUES			
○	.589	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2382.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

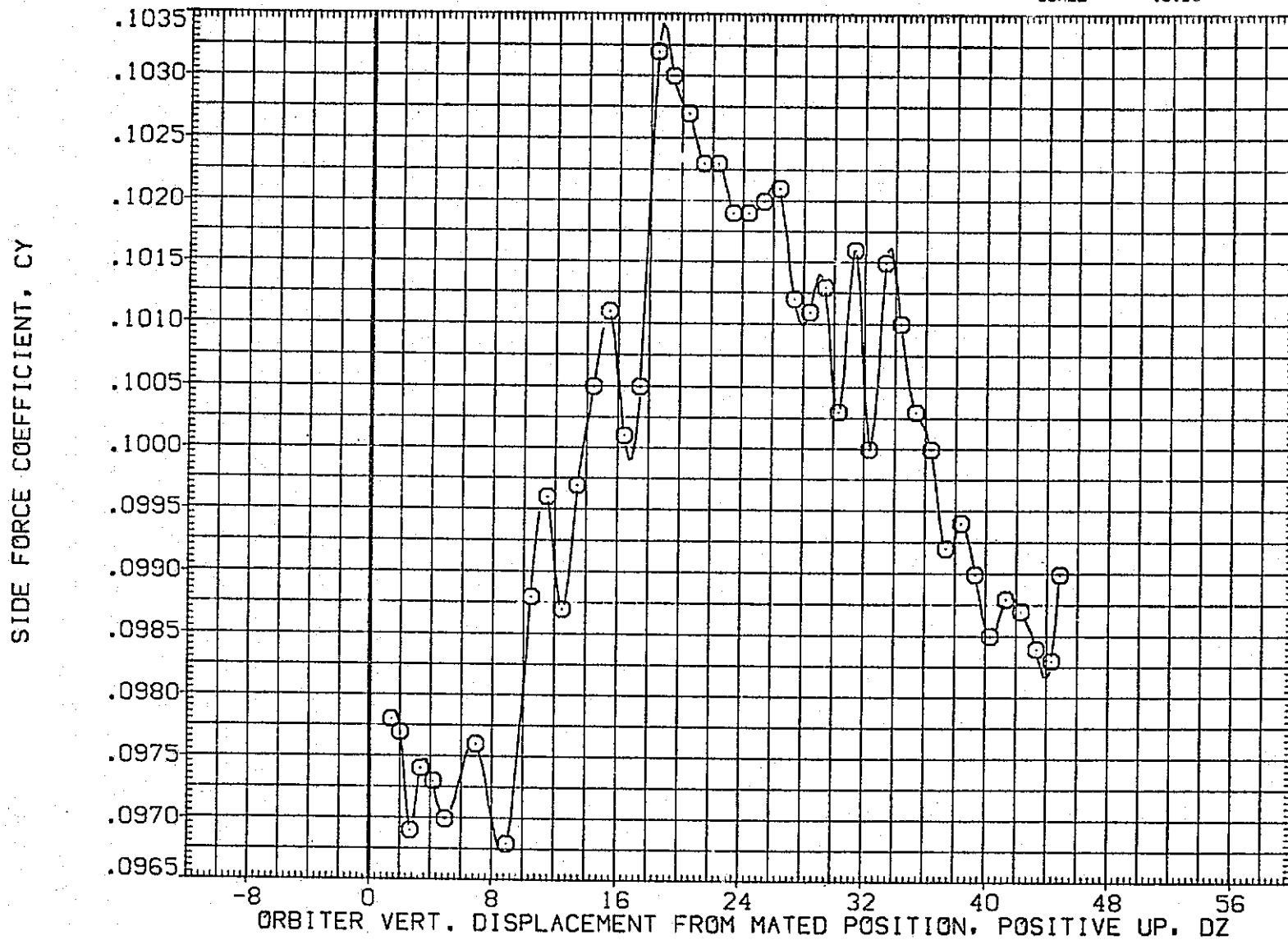


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE080)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.589	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

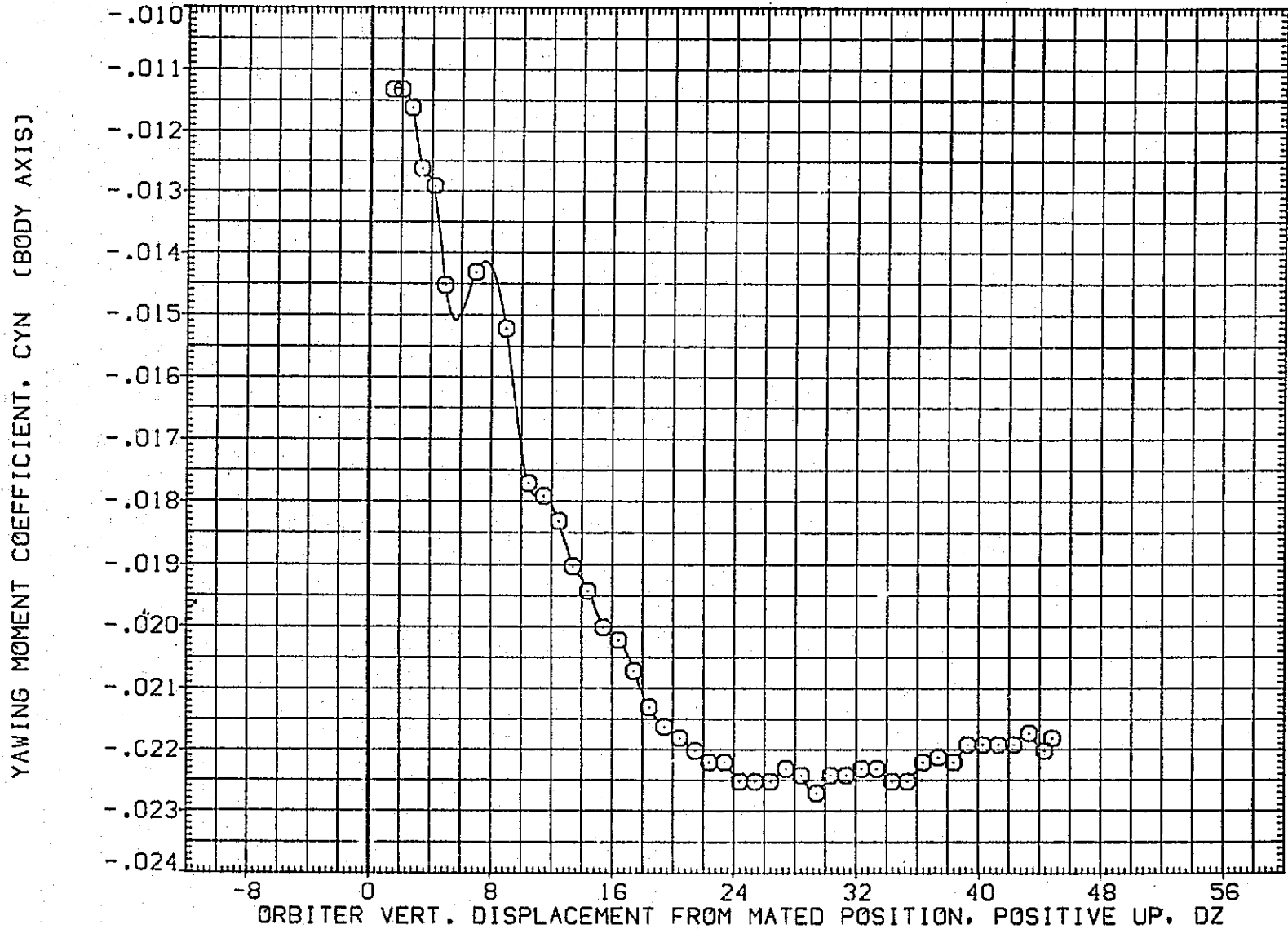


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

SYMBOL	MACH	PARAMETRIC VALUES			
○	.589	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	3500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.8400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

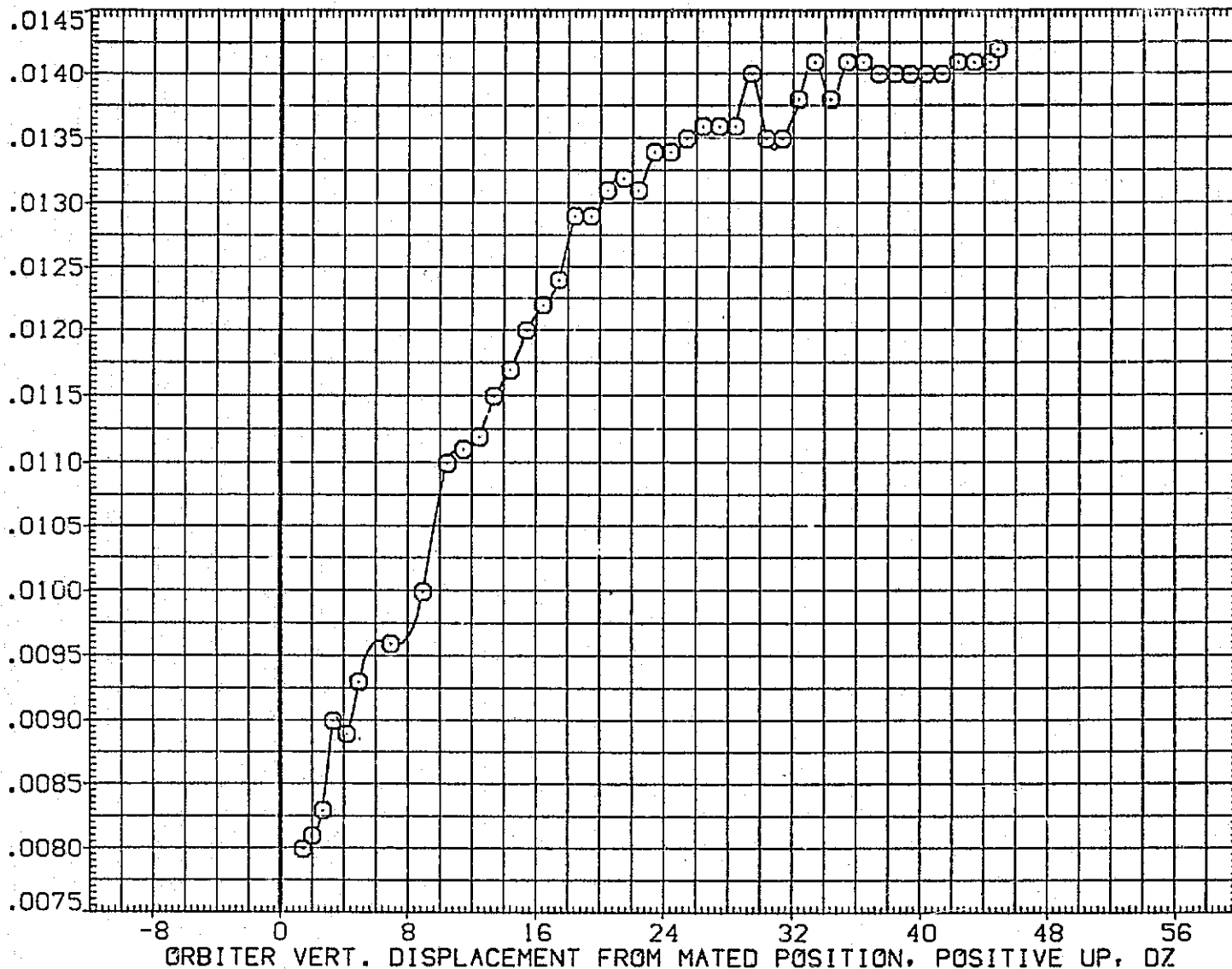


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE080)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.589	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

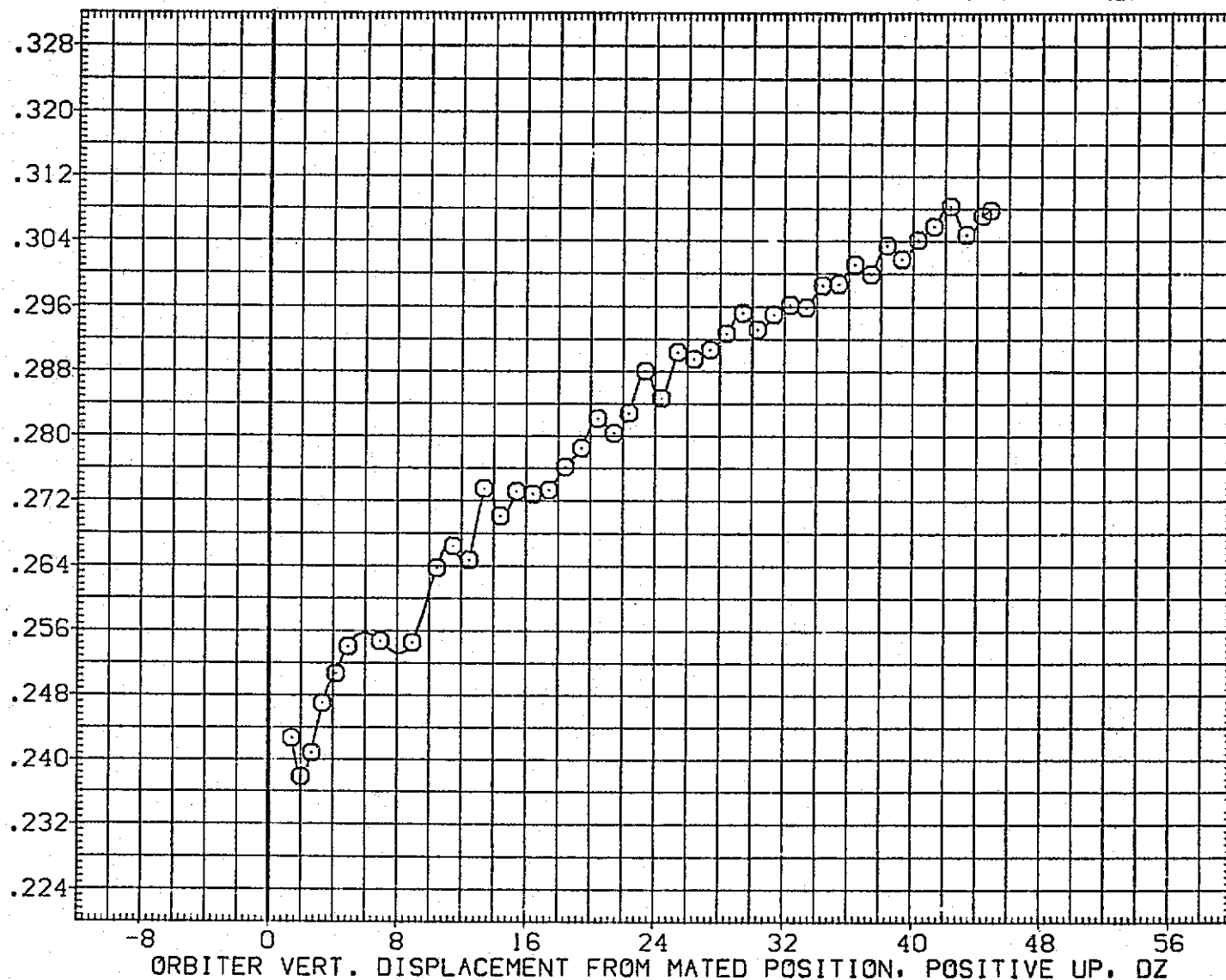


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

SYMBOL

MACH

PARAMETRIC VALUES

REFERENCE INFORMATION

O

.589

ALPHAC

2.000

BETAC

-5.000

SREF 5500.0000

SQ.FT.

STAB

5.000

ELEVON

5.000

LREF 527.7800

IN.

BDFLAP

.000

DX

.000

UREF 2348.0400

IN.

DY

.000

IORB

4.000

XMRP 1339.9000

IN. %C

BETA0

-5.000

RUDDER

.000

YMRP .0000

IN. %C

ZMRP 190.7500

IN. %C

SCALE .0125

DRAG COEFFICIENT, CD

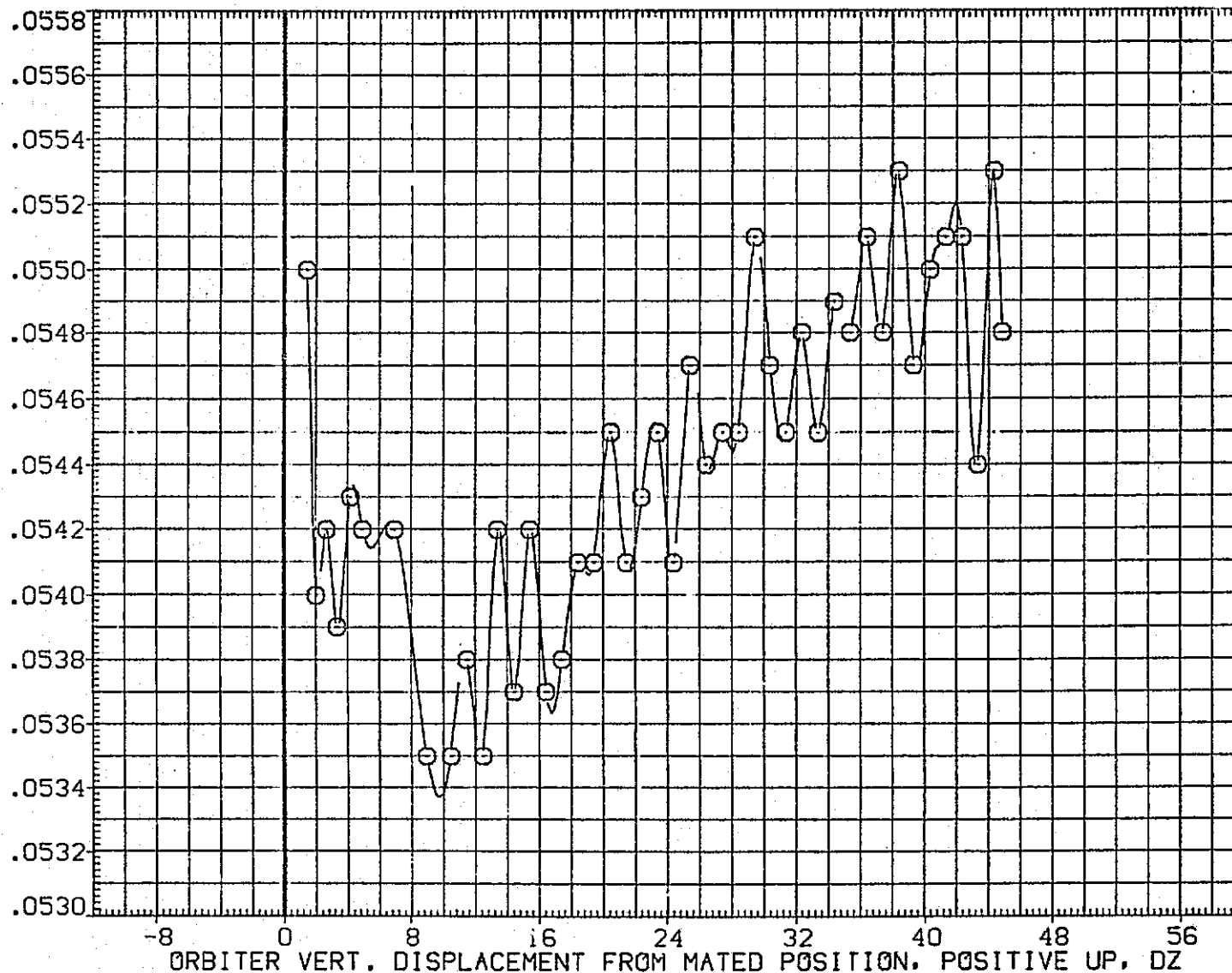


FIG.184 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=-5, BETA0=-5, RFE080

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE081)

SYMBOL

○

MACH

.592

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	-5.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

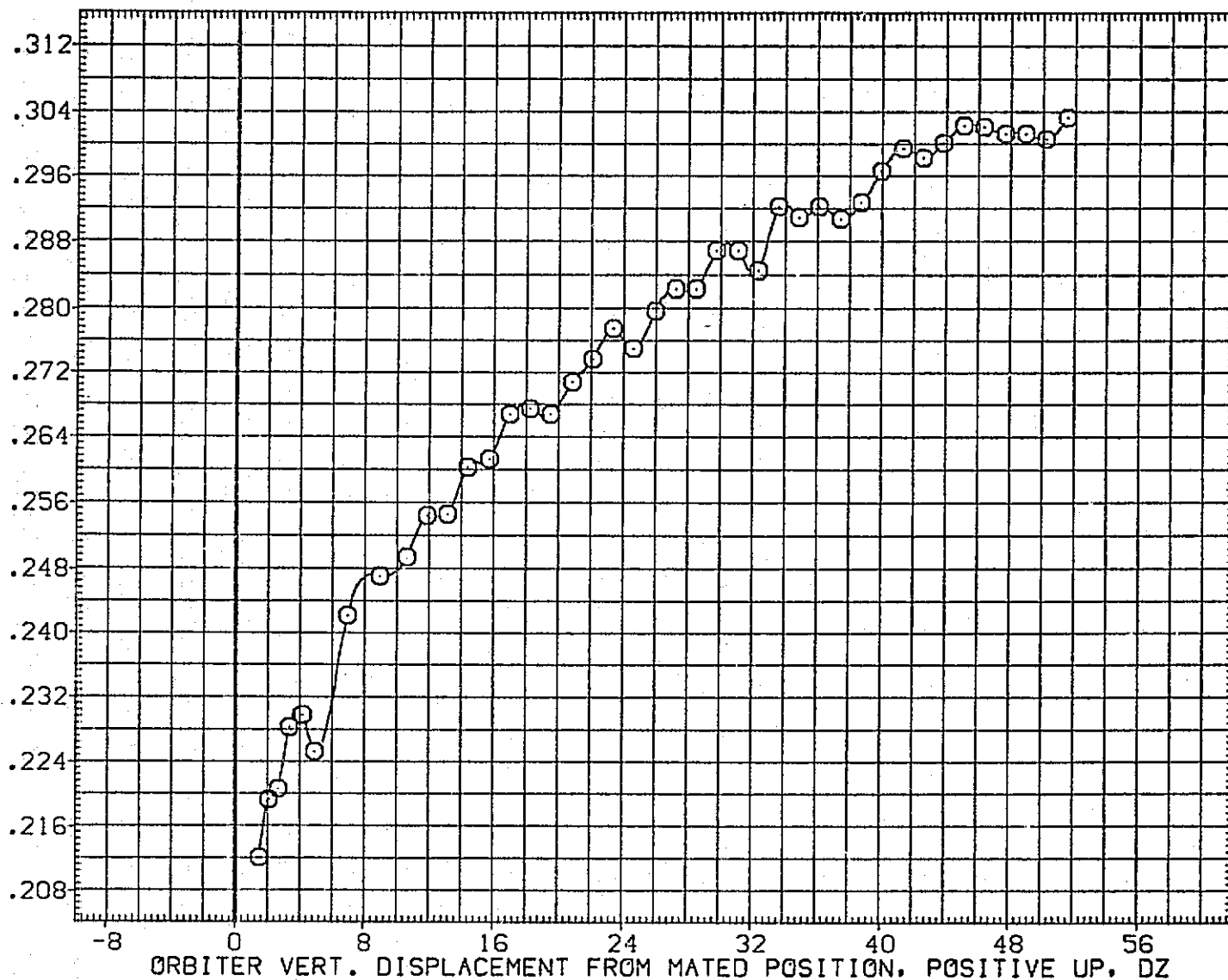


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

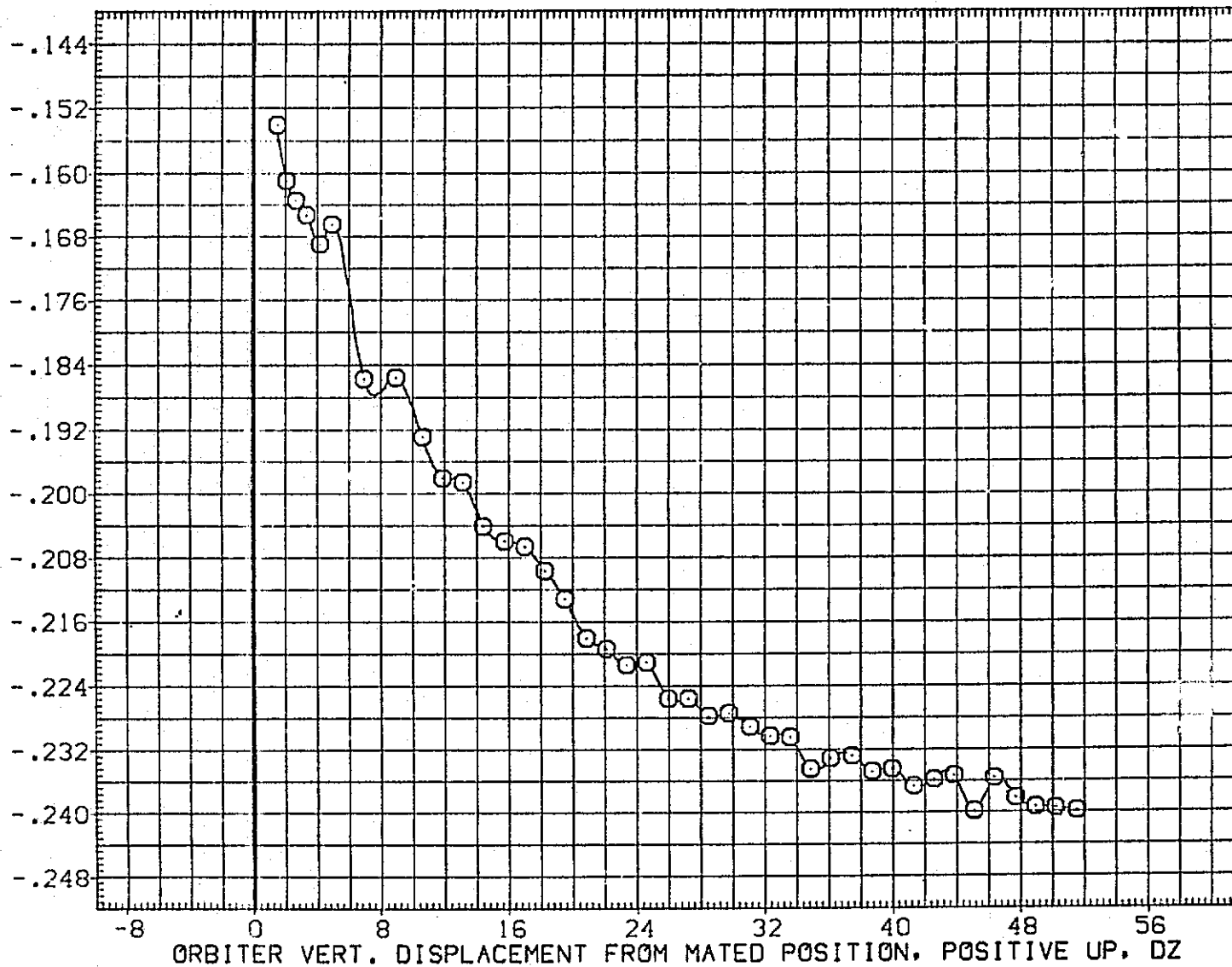


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE081)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.592	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DA	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

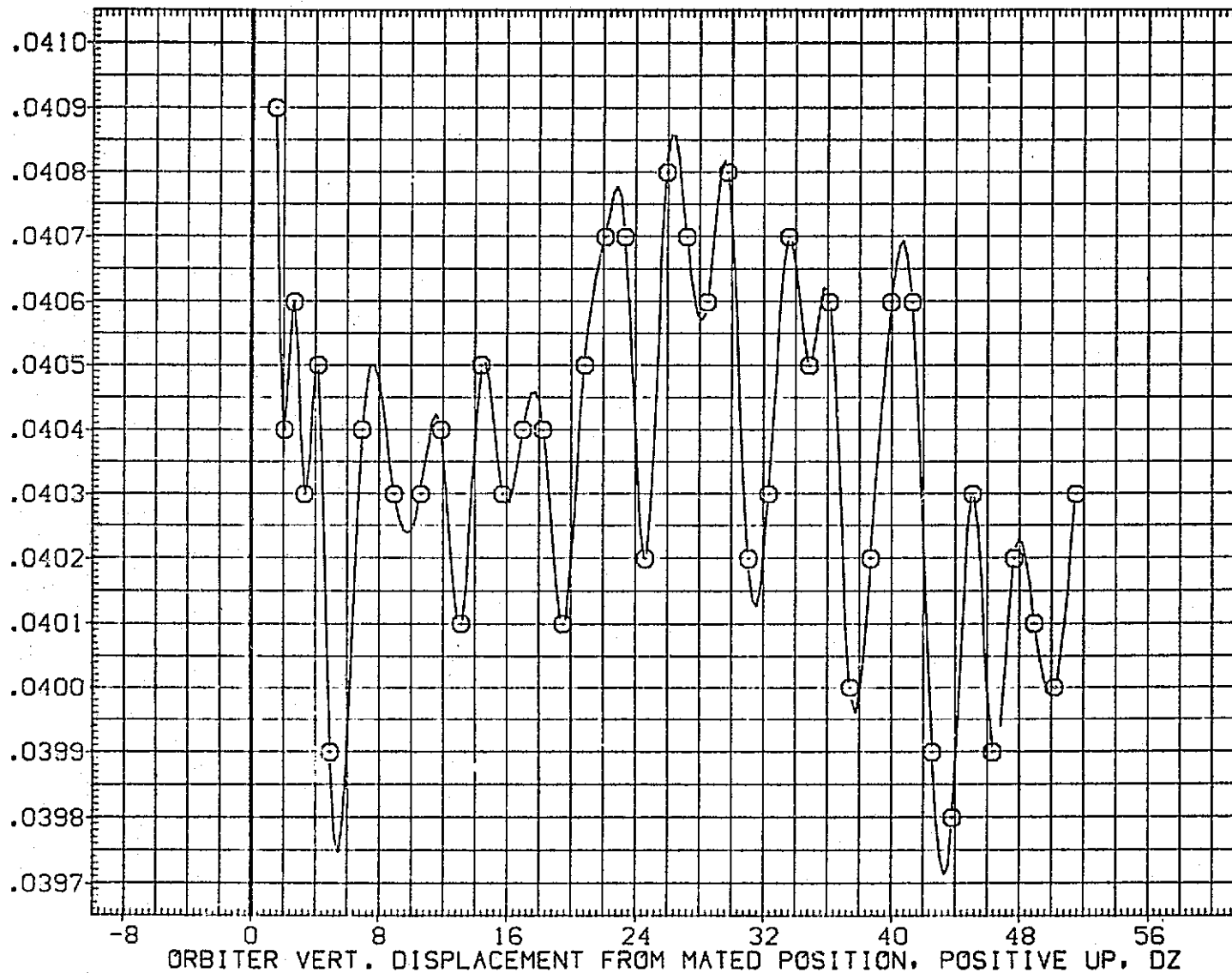


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.592	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

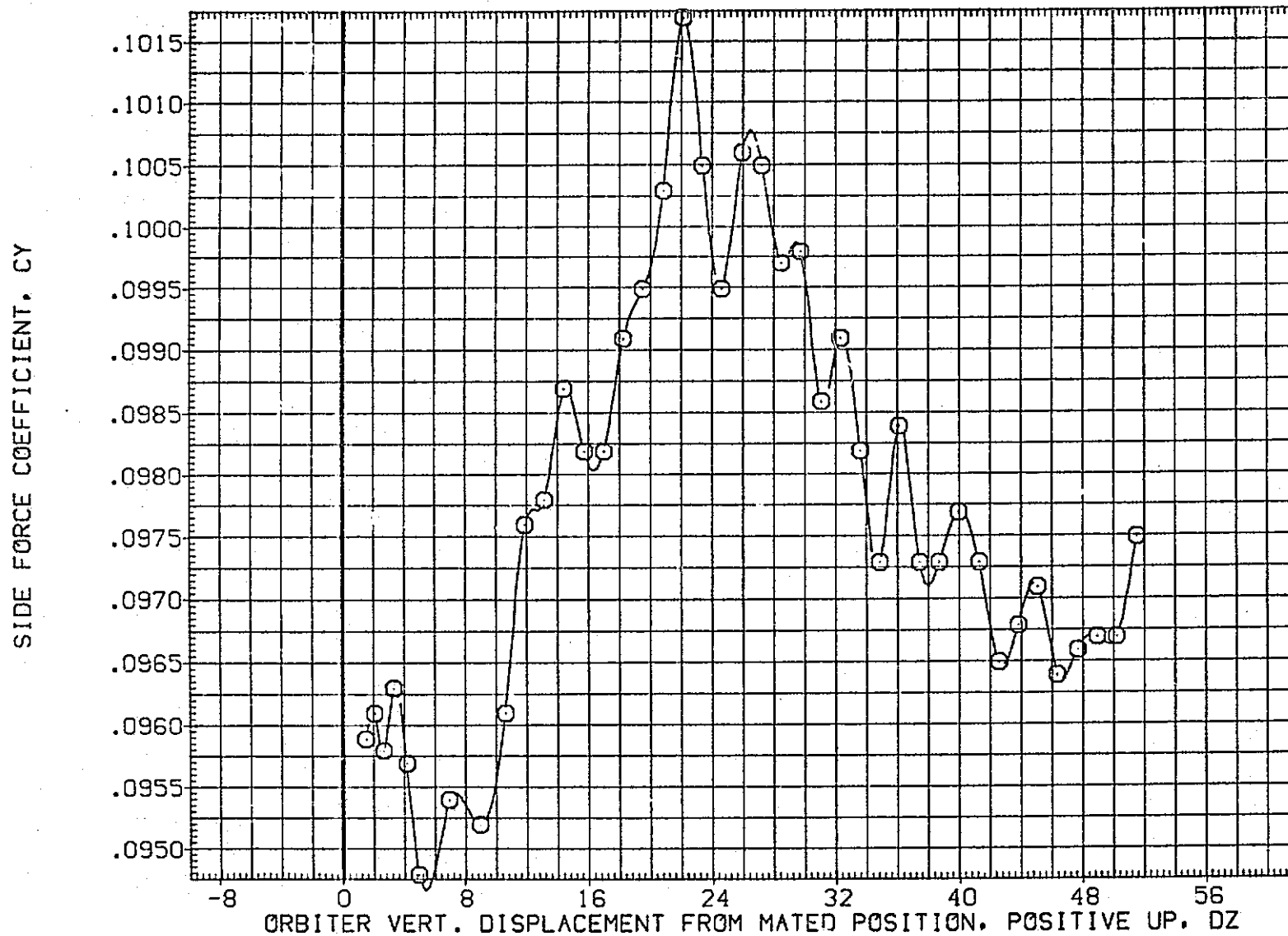


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE081)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.592	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

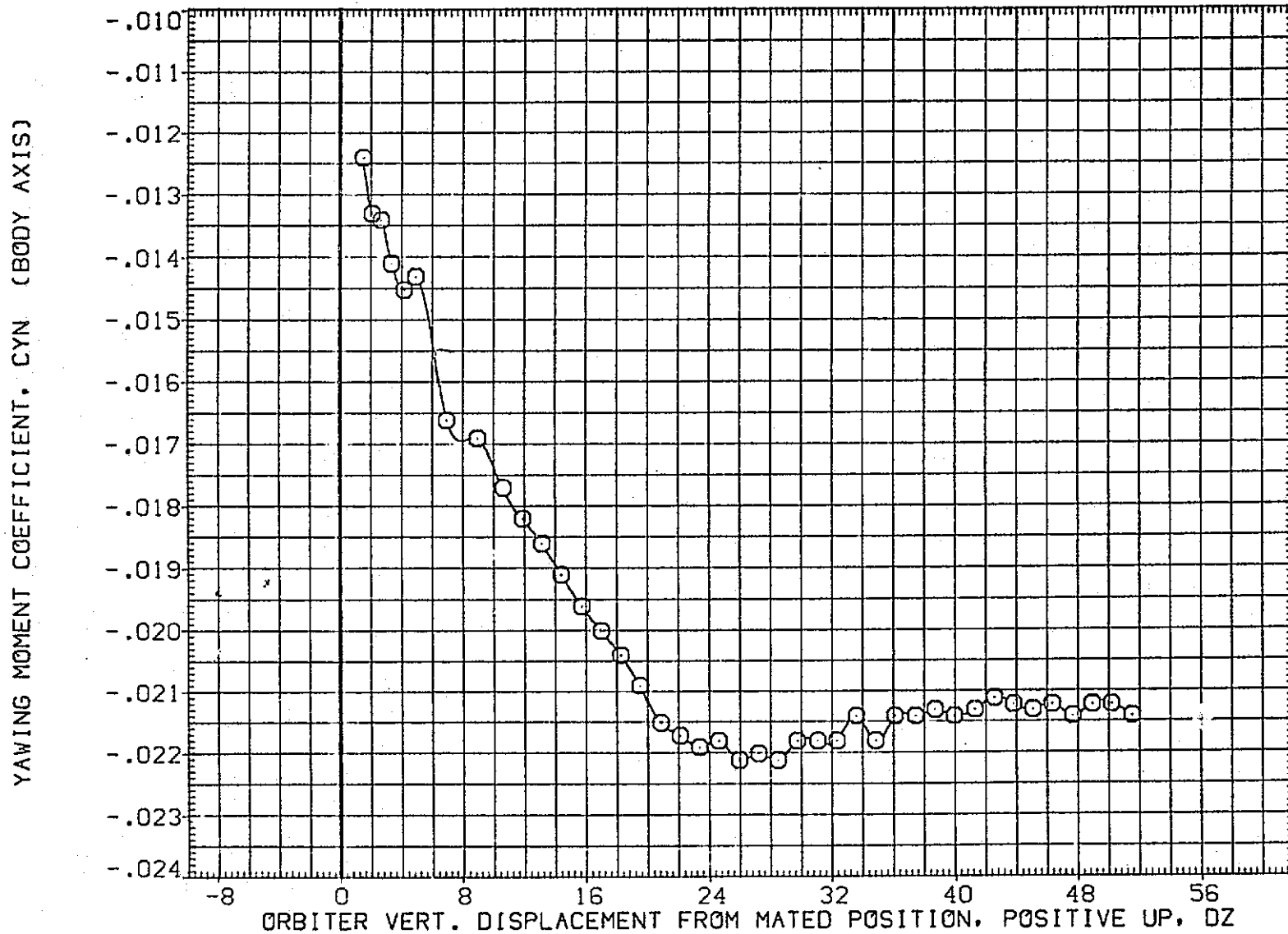


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

SYMBOL	MACH	PARAMETRIC VALUES			
○	.592	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LRLF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

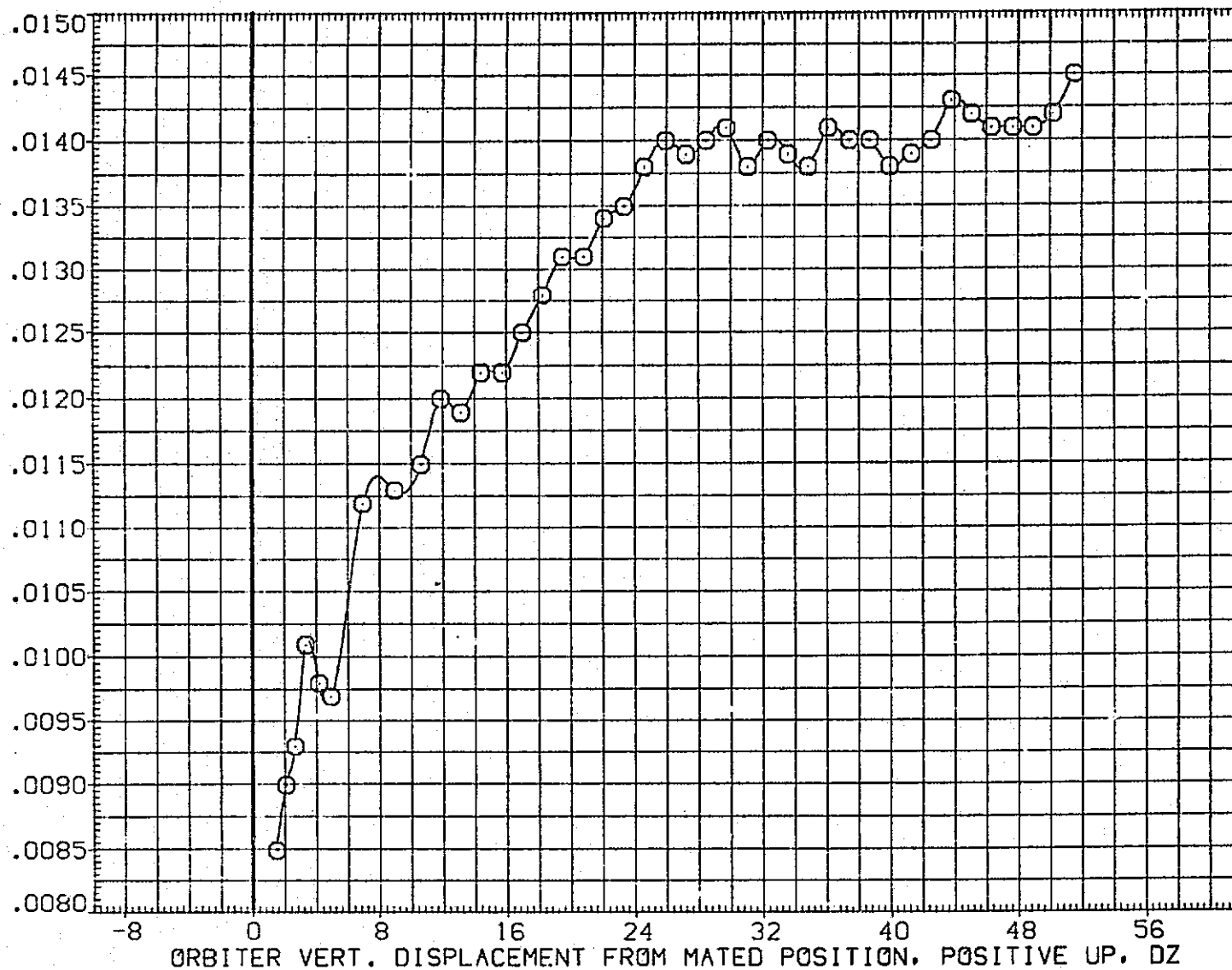


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE081)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.592	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SG.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

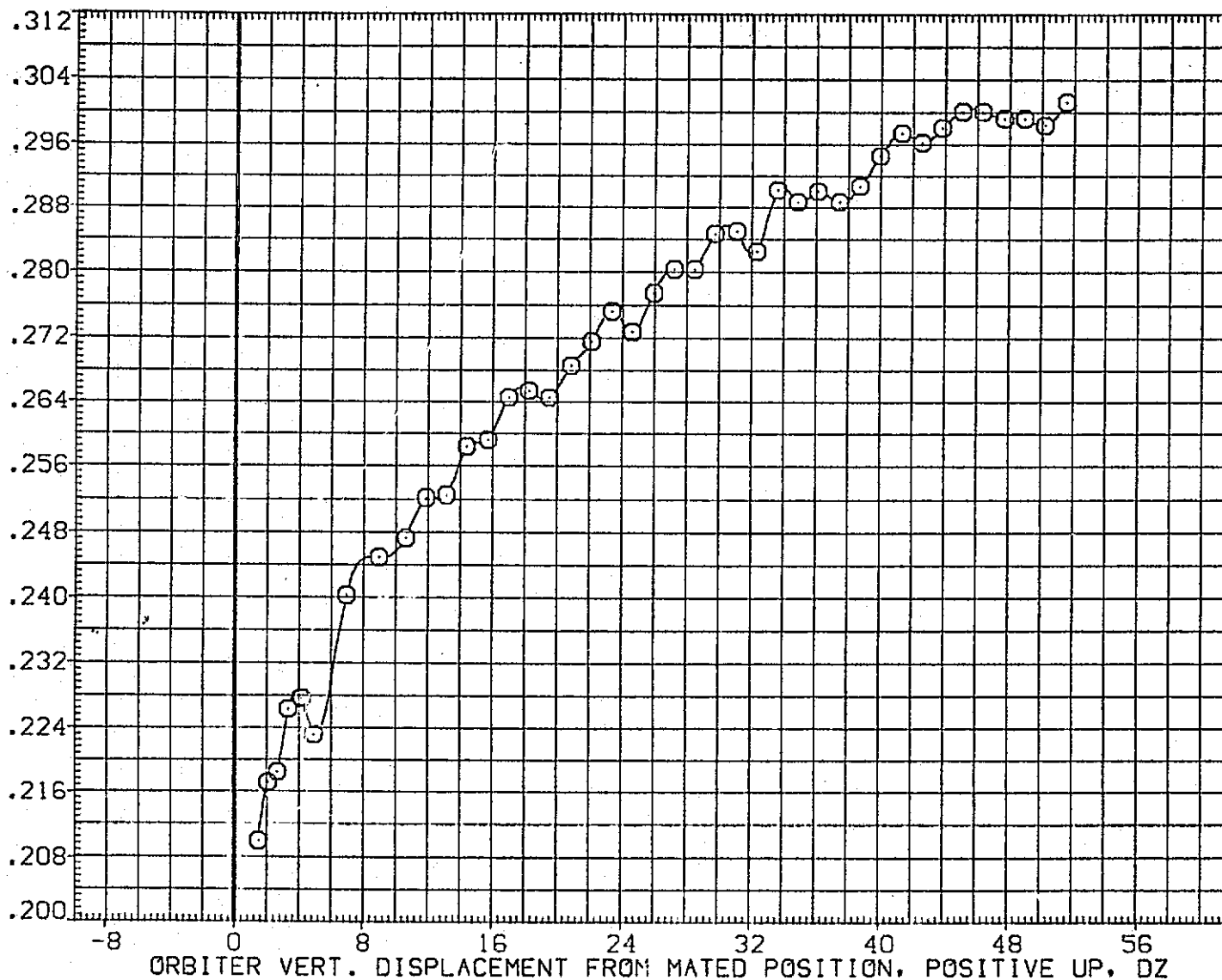


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION															
		ALPHAC	BETAC	ELEVON	DX	IORB	RUDDER	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	IN.	IN.	IN.	IN.	IN.	IN.
○	.592	2.000	-5.000	5.000	.000	6.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125							

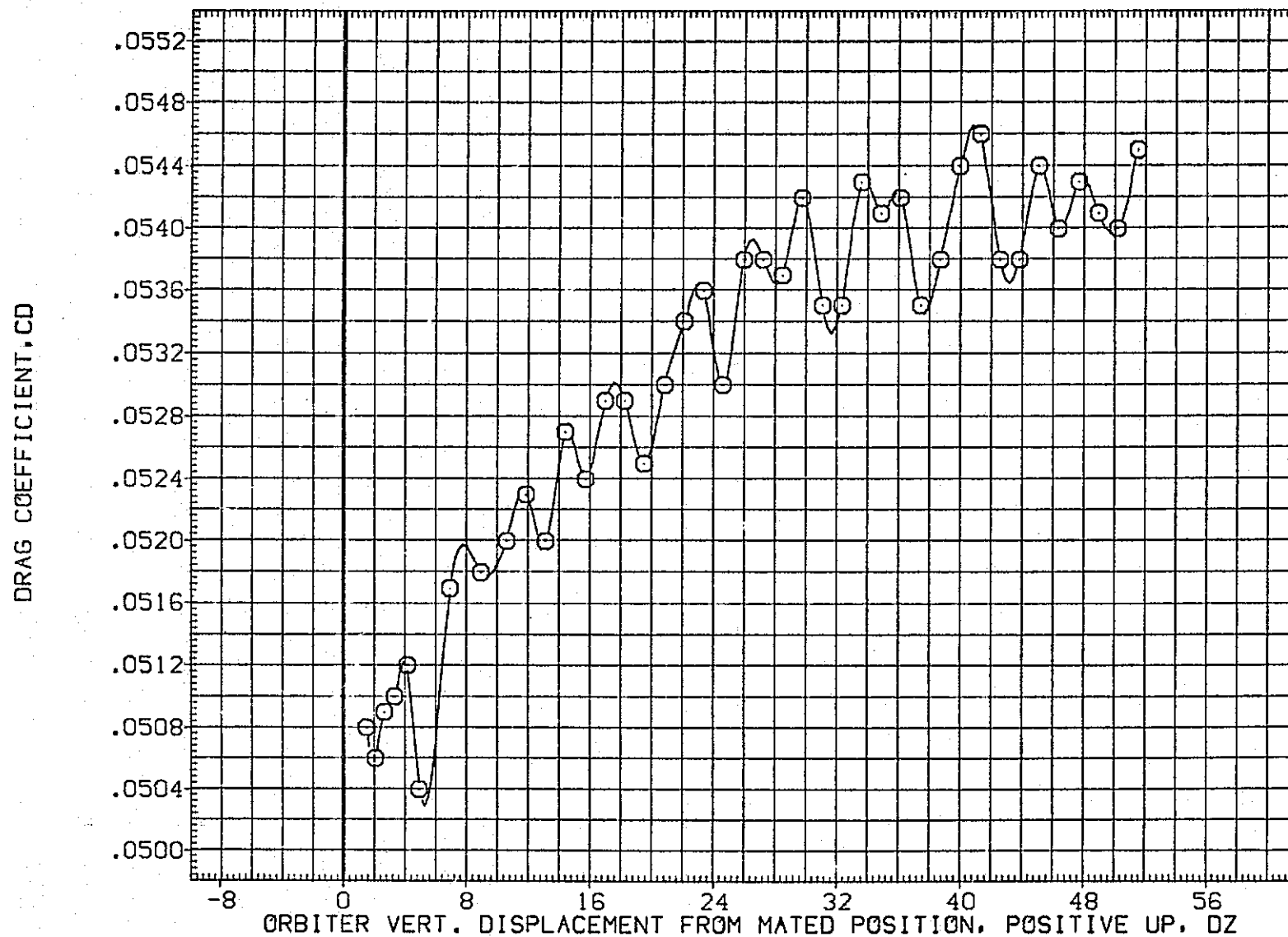


FIG.185 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE081

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE082)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	2.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SPEF	5500.0000	SQ. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

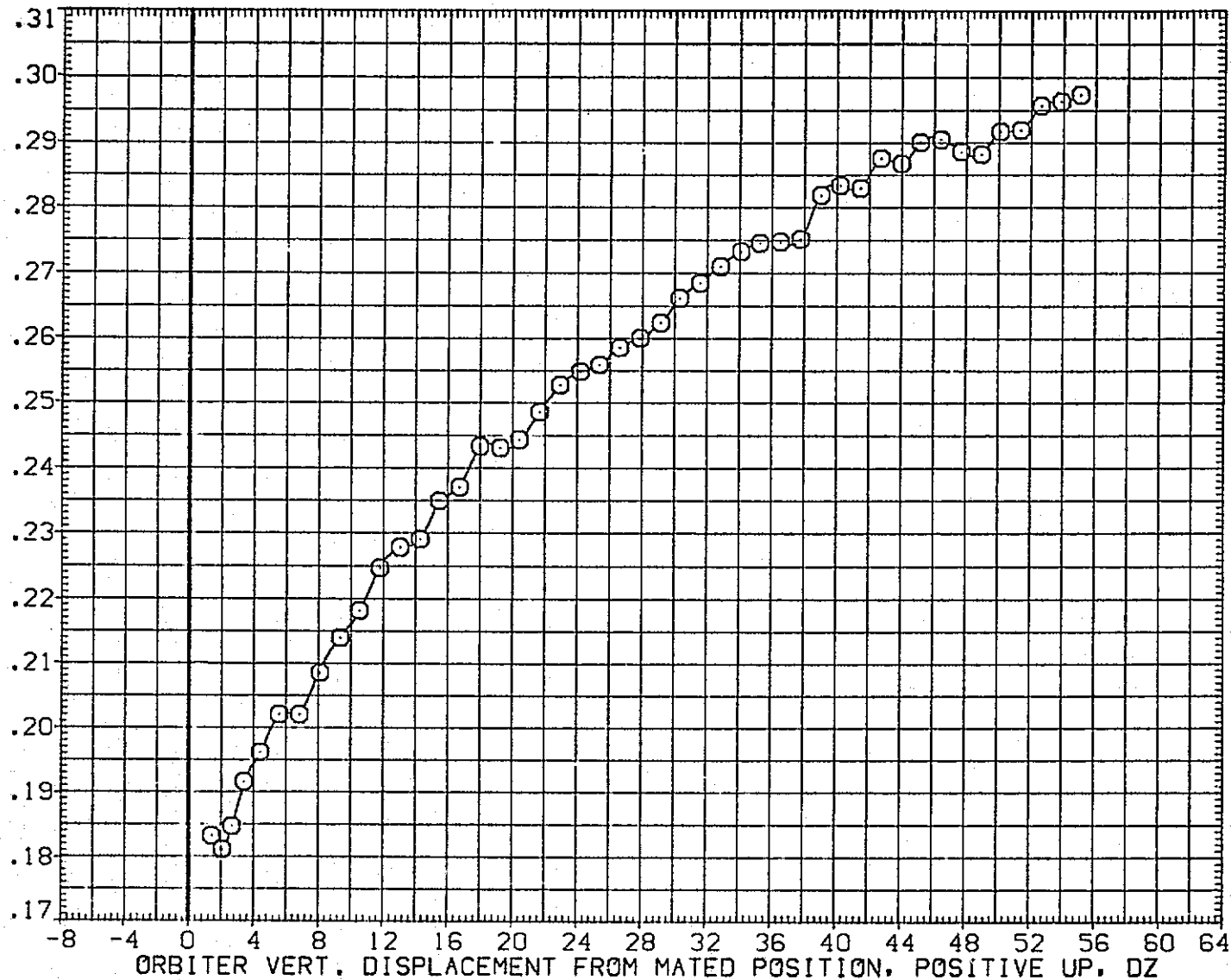


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

SYMBOL

O

MACH

.594

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

-5.000

STAB

5.000

ELEVON

5.000

BDFLAP

.000

DX

.000

DY

.000

IORB

8.000

BETA0

-5.000

RUDDER

.000

REFERENCE INFORMATION

SREF

5500.0000

SQ.FT.

LREF

327.7800

IN.

BREF

2348.0400

IN.

XMRP

1339.9000

IN. XC

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

PITCHING MOMENT COEFFICIENT, CLM

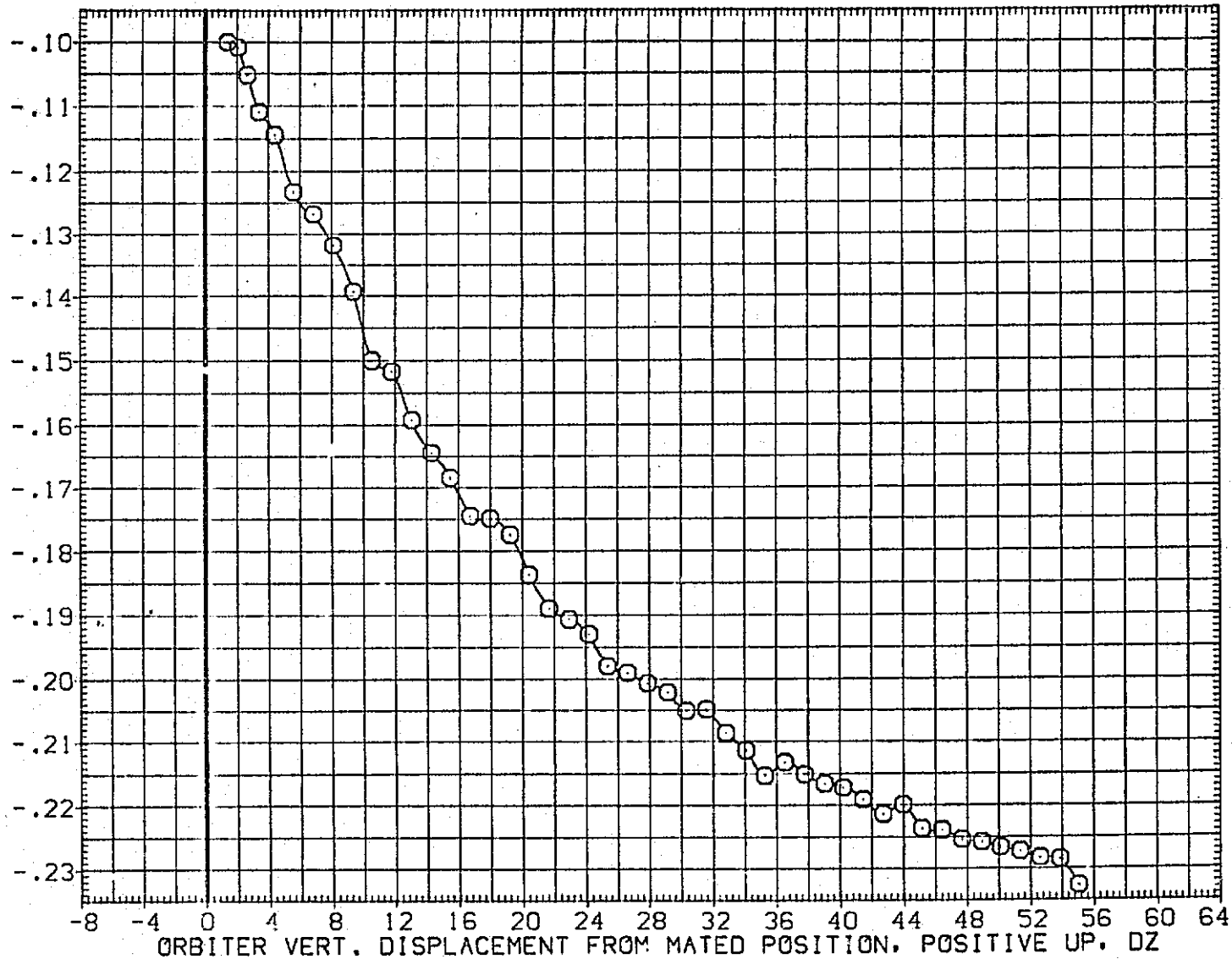


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE082)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

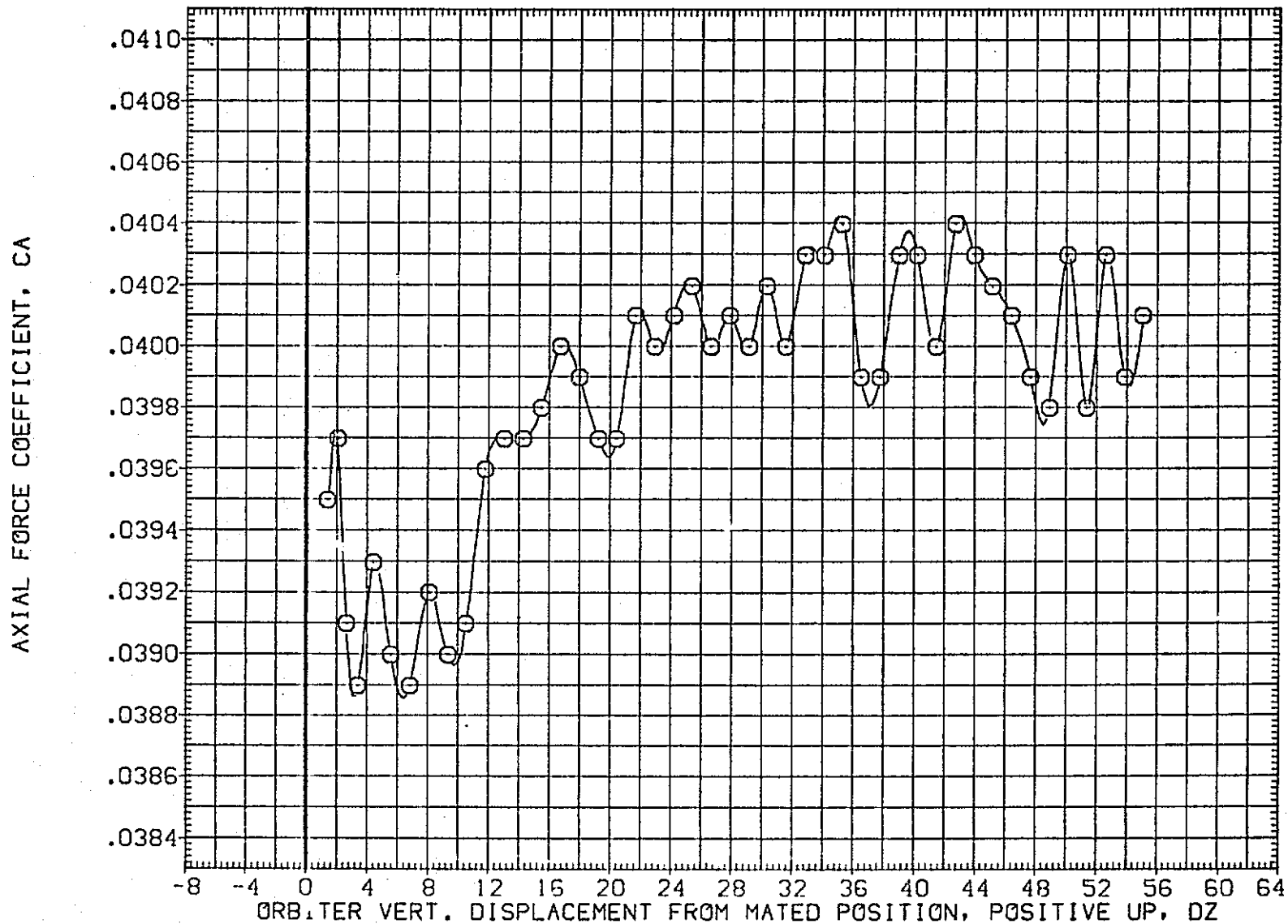


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

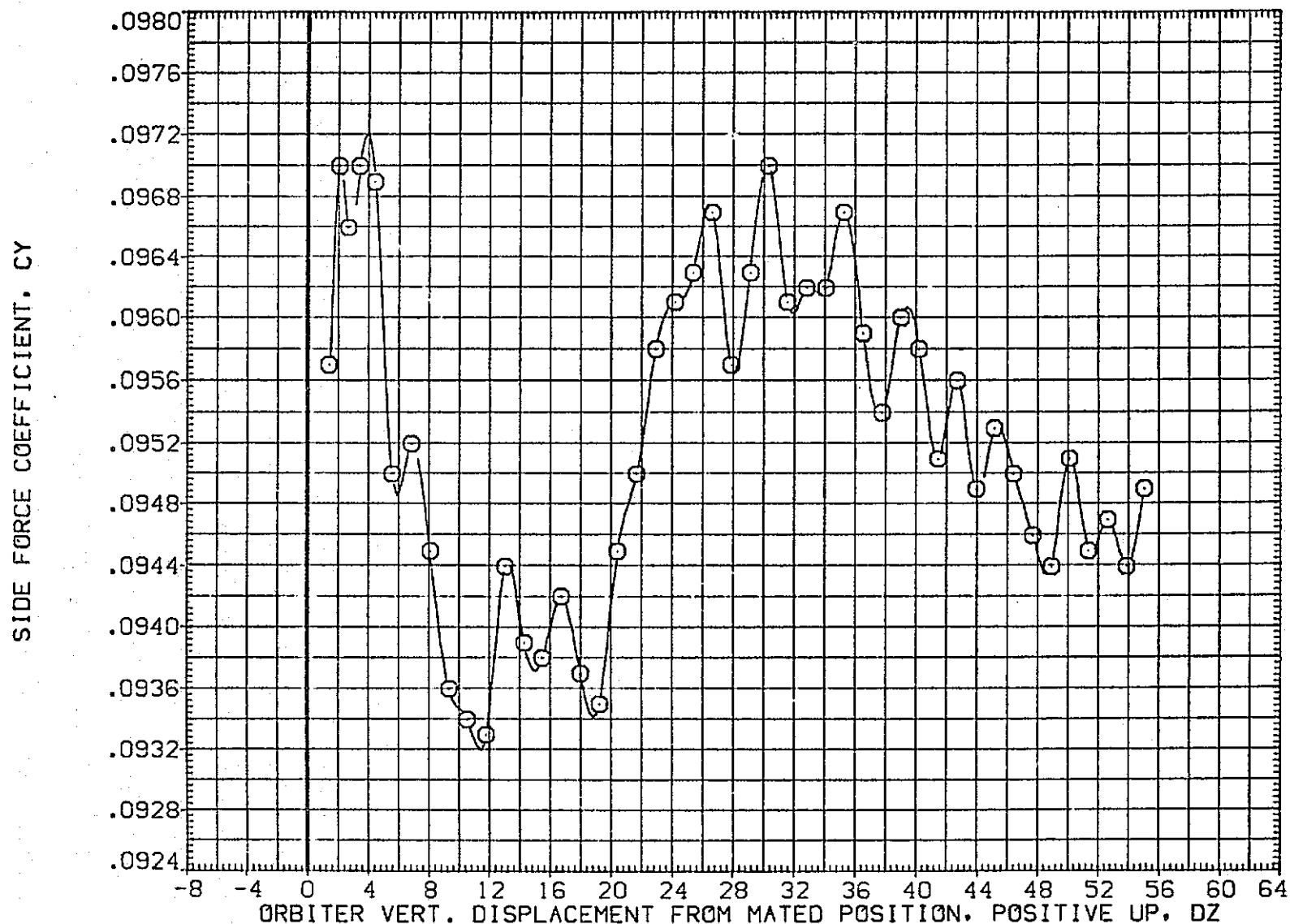


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE082)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	OX	.000	BREF	2349.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

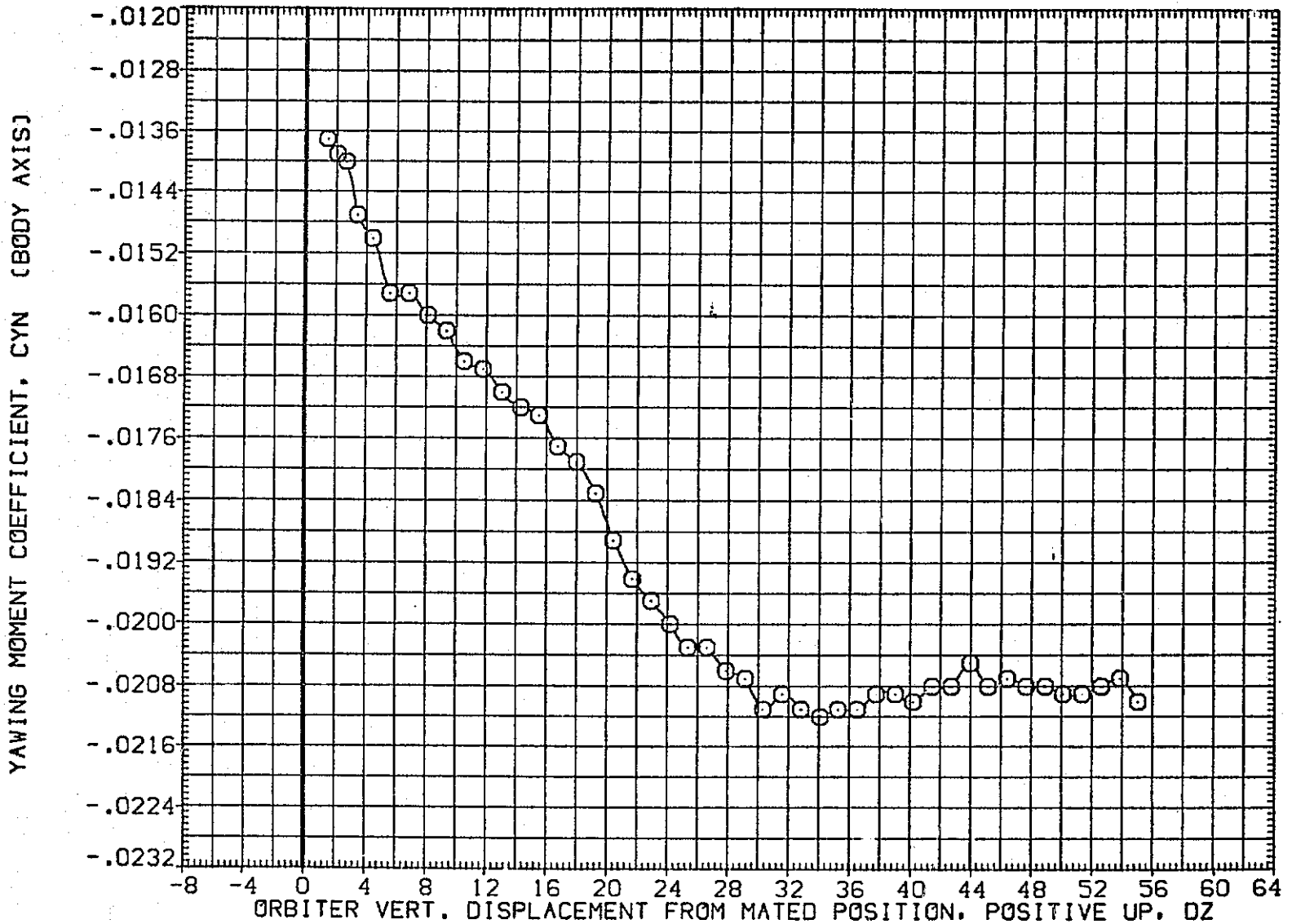


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	2.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

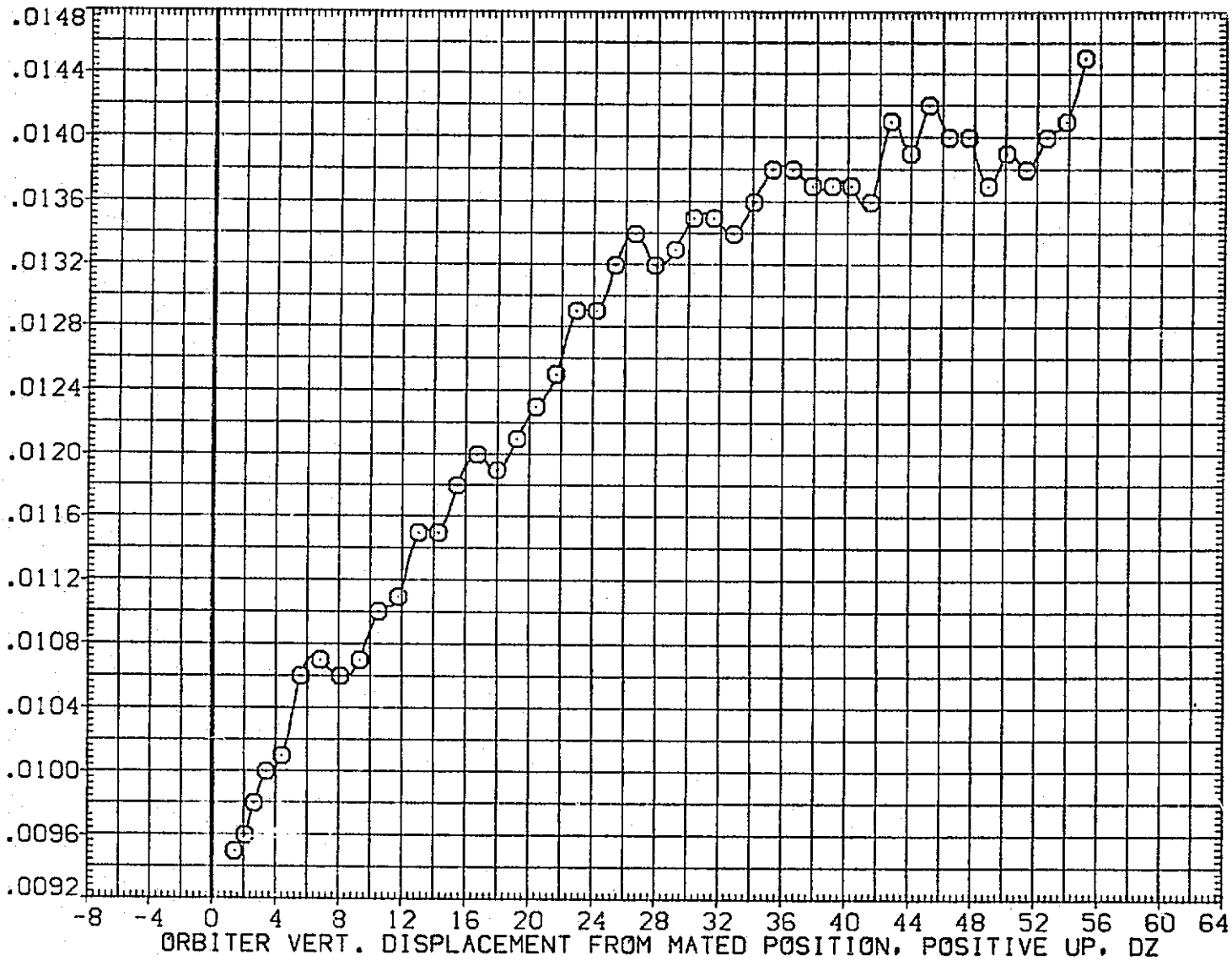


FIG. 186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE082)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	UX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

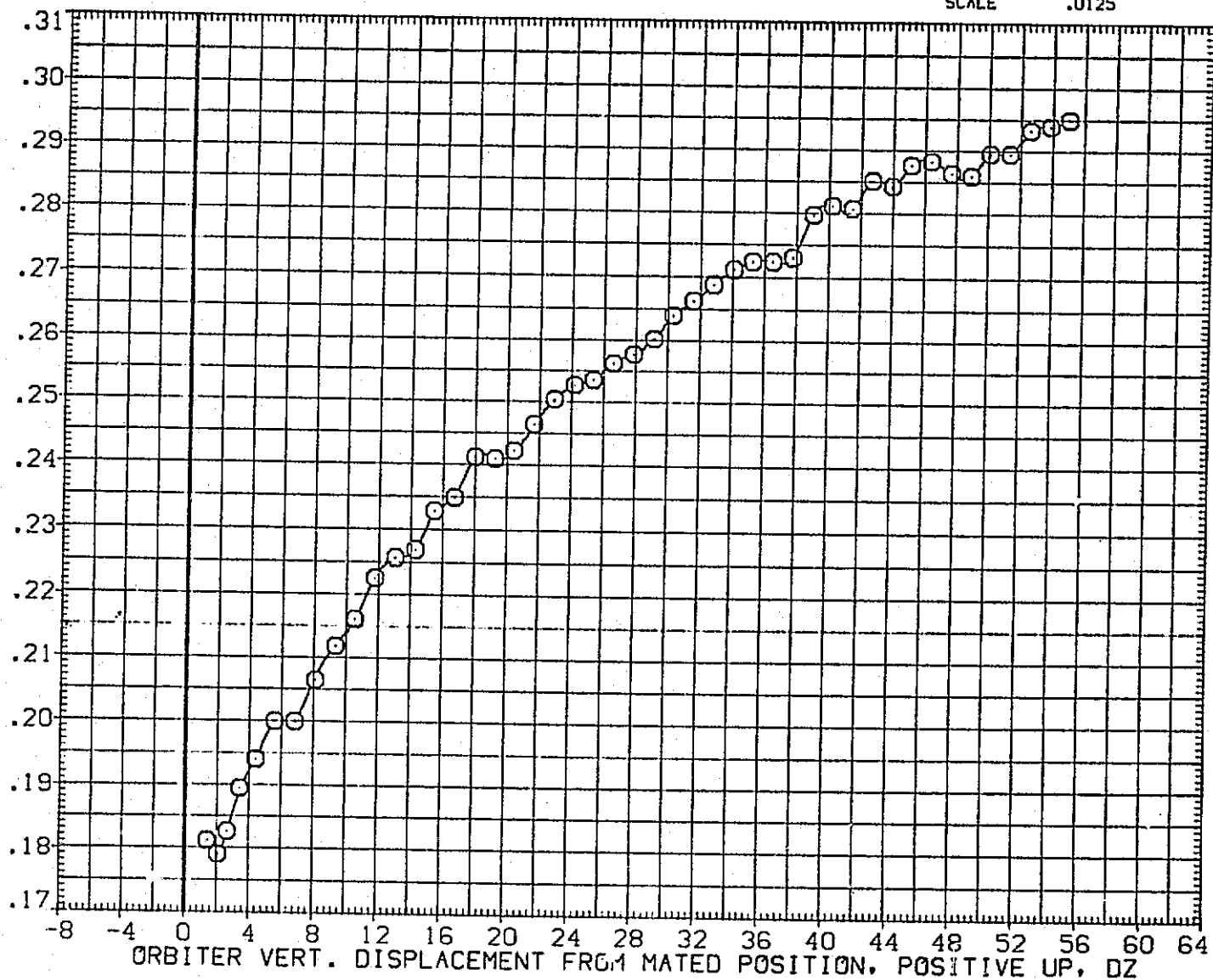


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE082)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

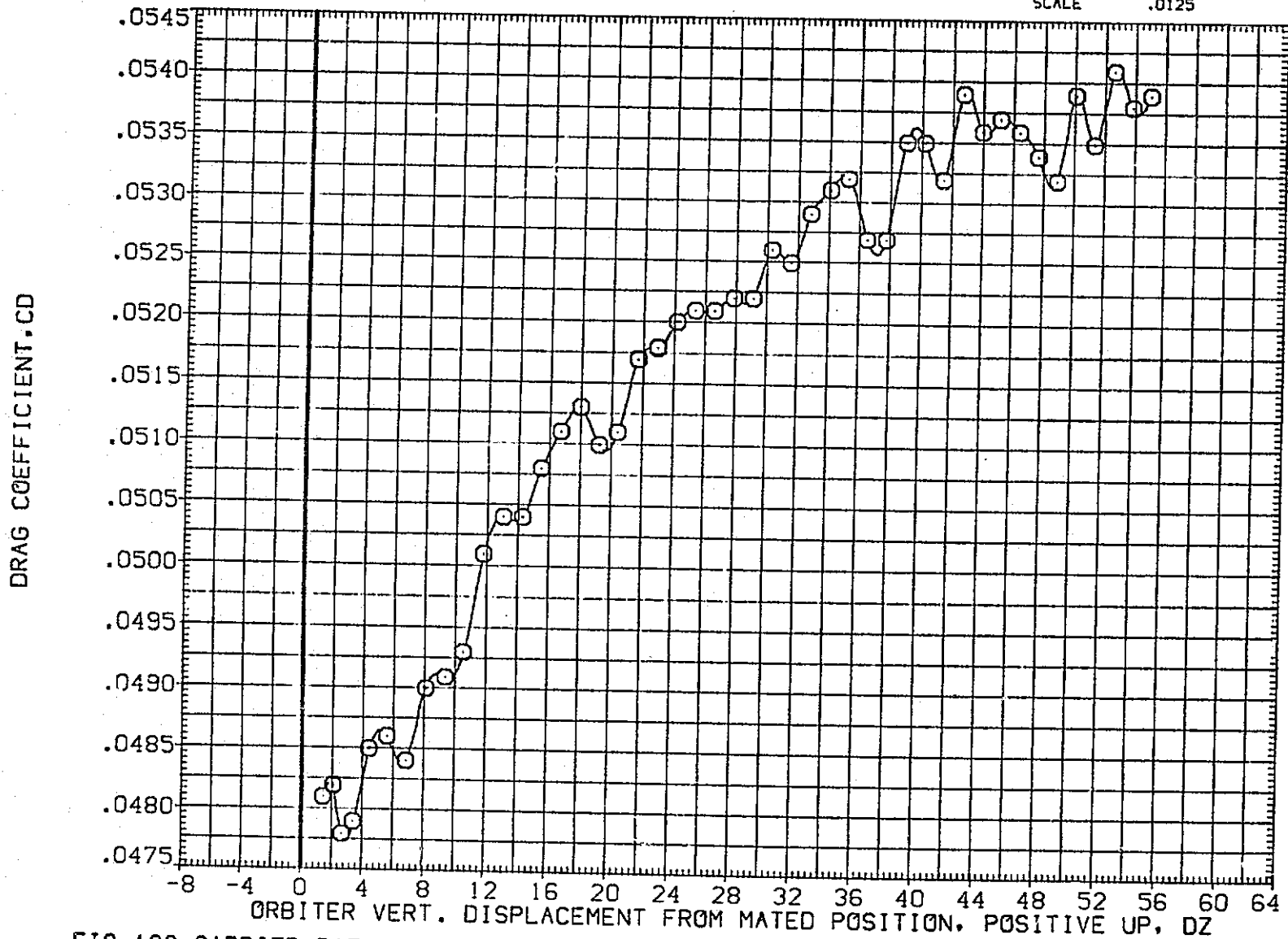


FIG.186 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=-5, BETA0=-5, RFE082

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE083)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.596	ALPHAC	2.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DY	.000
	DZ	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

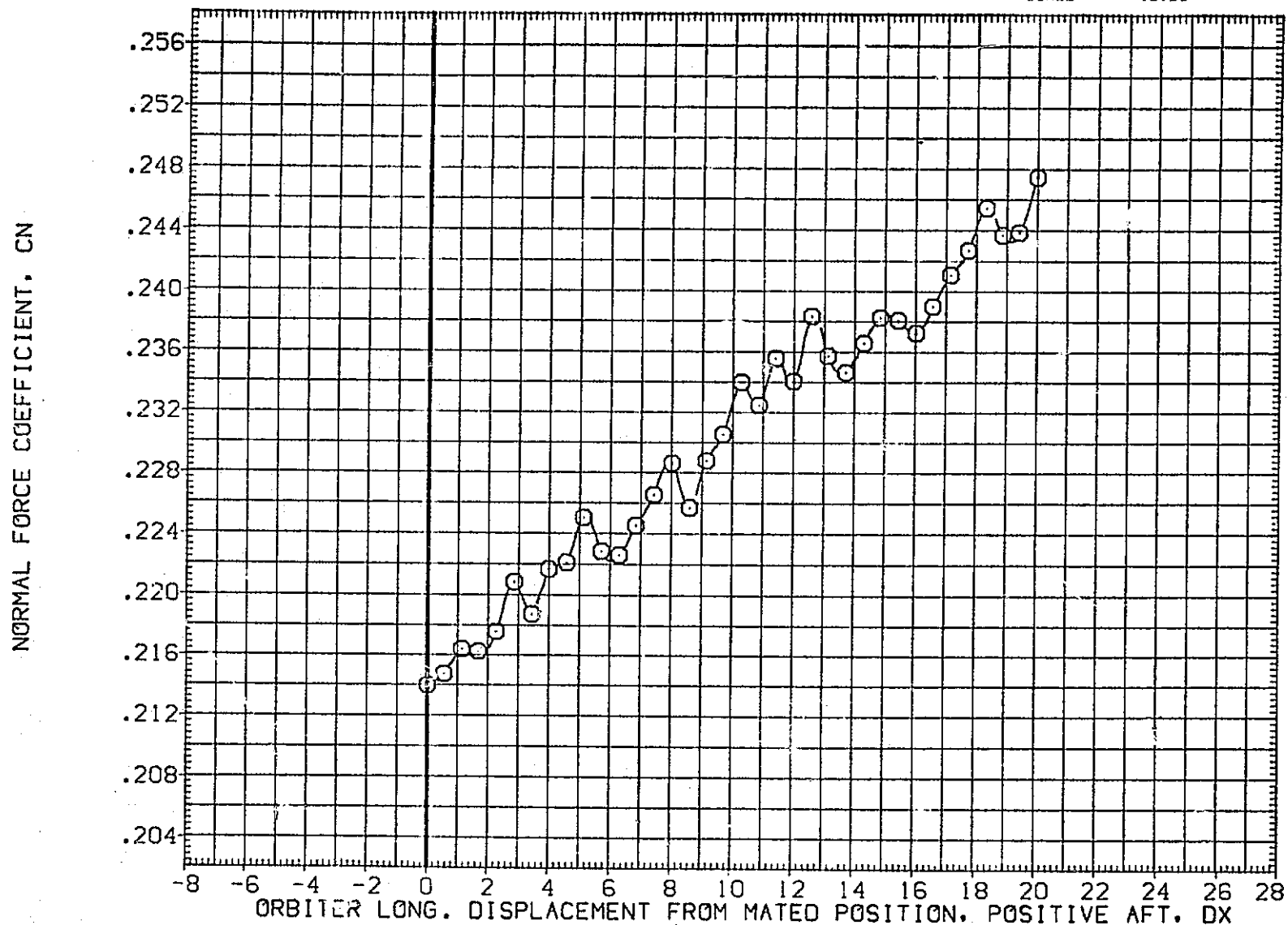


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	IN.	SO.FT.
○	.596	2.000	-5.000	5.000	.000	5500.0000	327.7800	IN.
		5.000	.000	.000	.000	2348.0400	1339.9000	IN. XC
		.000	6.000	.000	.000	.0000	190.7500	IN. YC
		BETA0	RUDDER	.000	.000	SCALE	.0125	IN. ZC

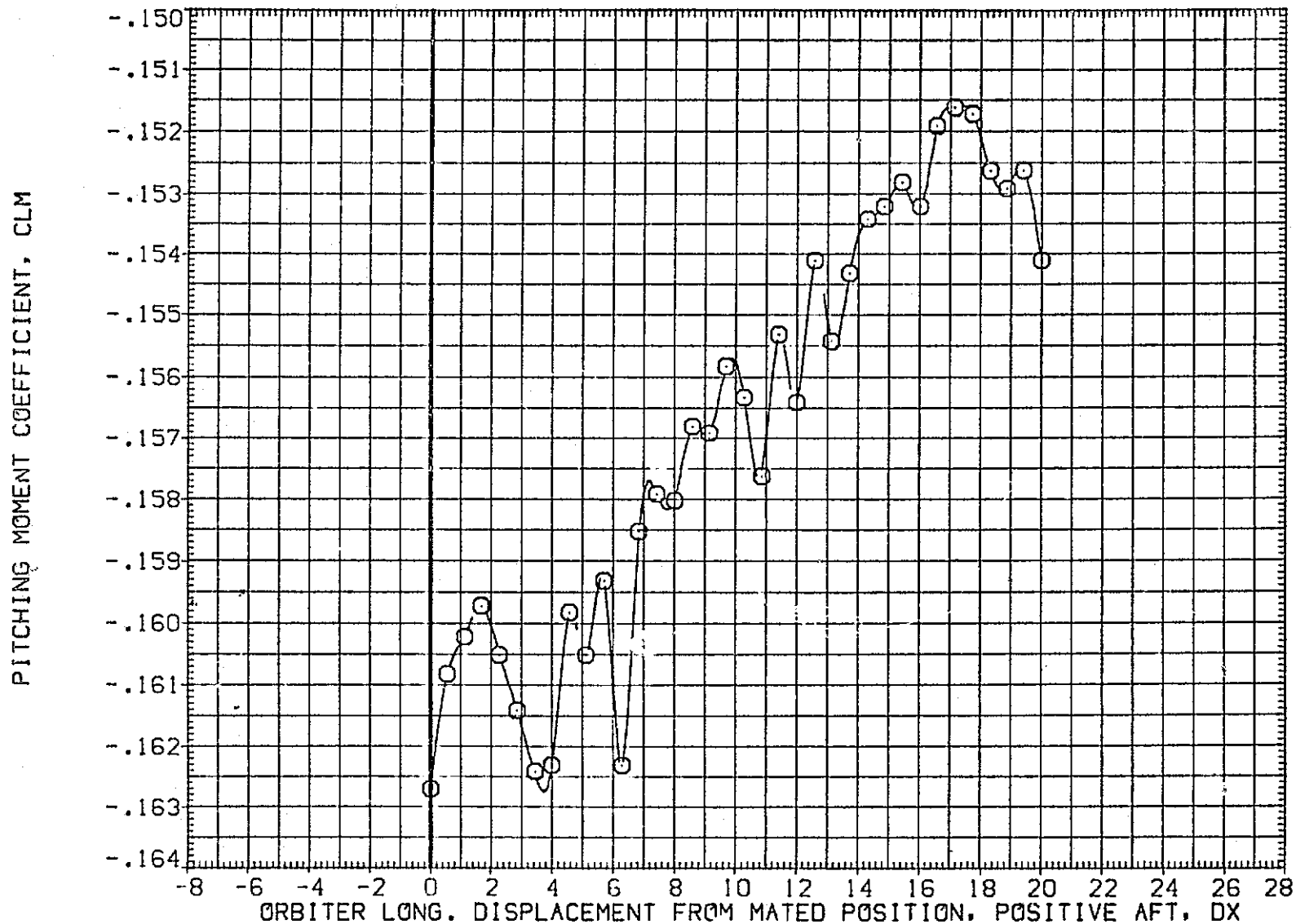


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE083)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	LREF	BREF
○	.596	2.000	-5.000	5.000	.000	5500.0000	327.7800	2348.0400
		BDFLAP	10RB	RUDDER	.000	1339.9000	.0000	190.7500
		DZ			.000			
		BETA0			.000		.0125	
								SO.FT.
								IN.
								IN. XC
								IN. YC
								IN. ZC

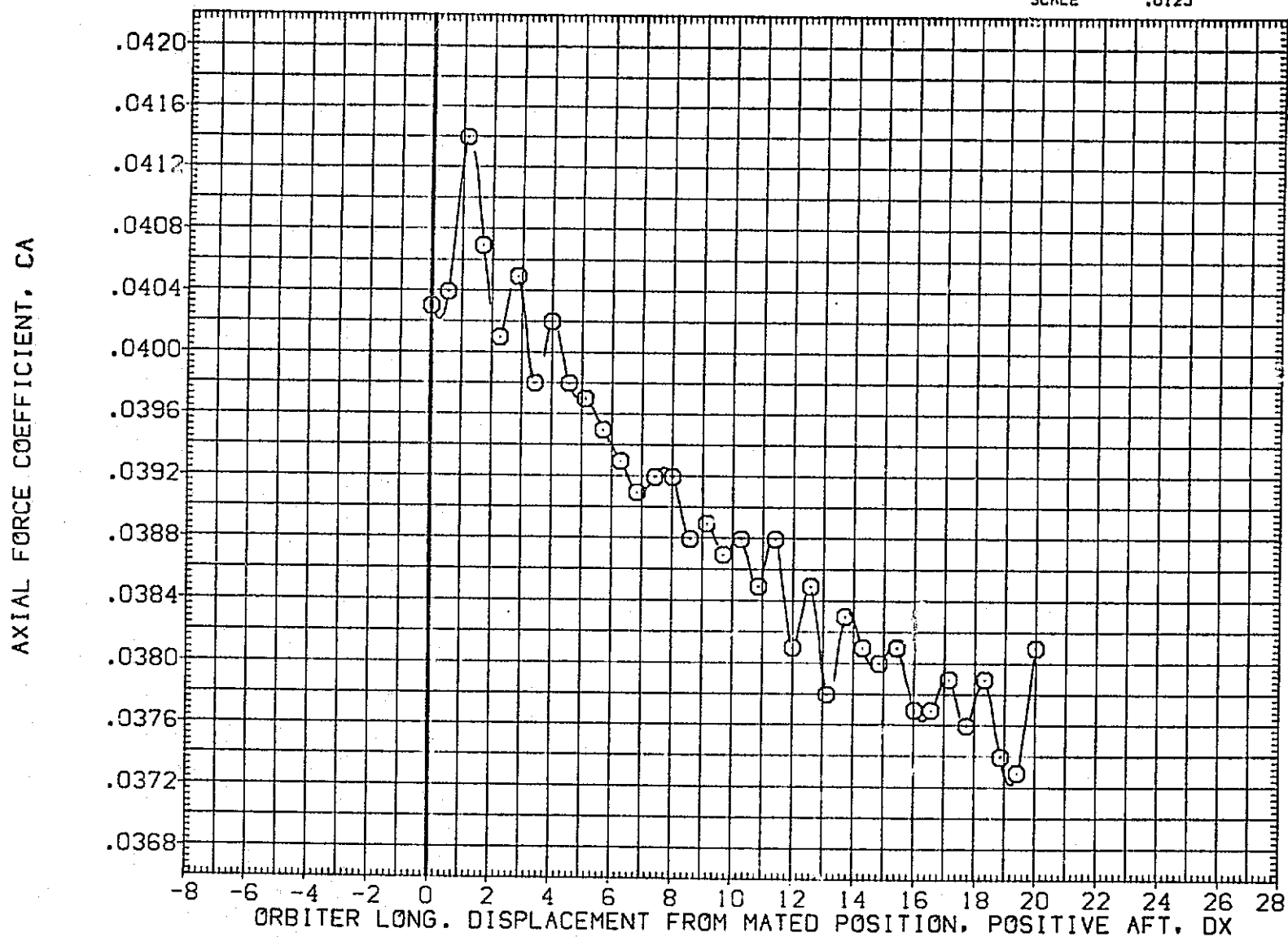


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, 10RB=6, BETAC=-5, BETA0=0, RFE083

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	IN.	SQ.FT.
○	.596	2.000	-5.000	5.000	.000	5500.0000	327.7800	IN.
		5.000	5.000	.000	.000	2348.0400	1339.9000	IN.
		BDFLAP	DY	DZ	IORB	YMRP	ZMRP	IN. AC
		.000	.000	.000	6.000	.0000	190.7500	IN. YC
		BETA0	RUDDER		.000	SCALE		IN. ZC

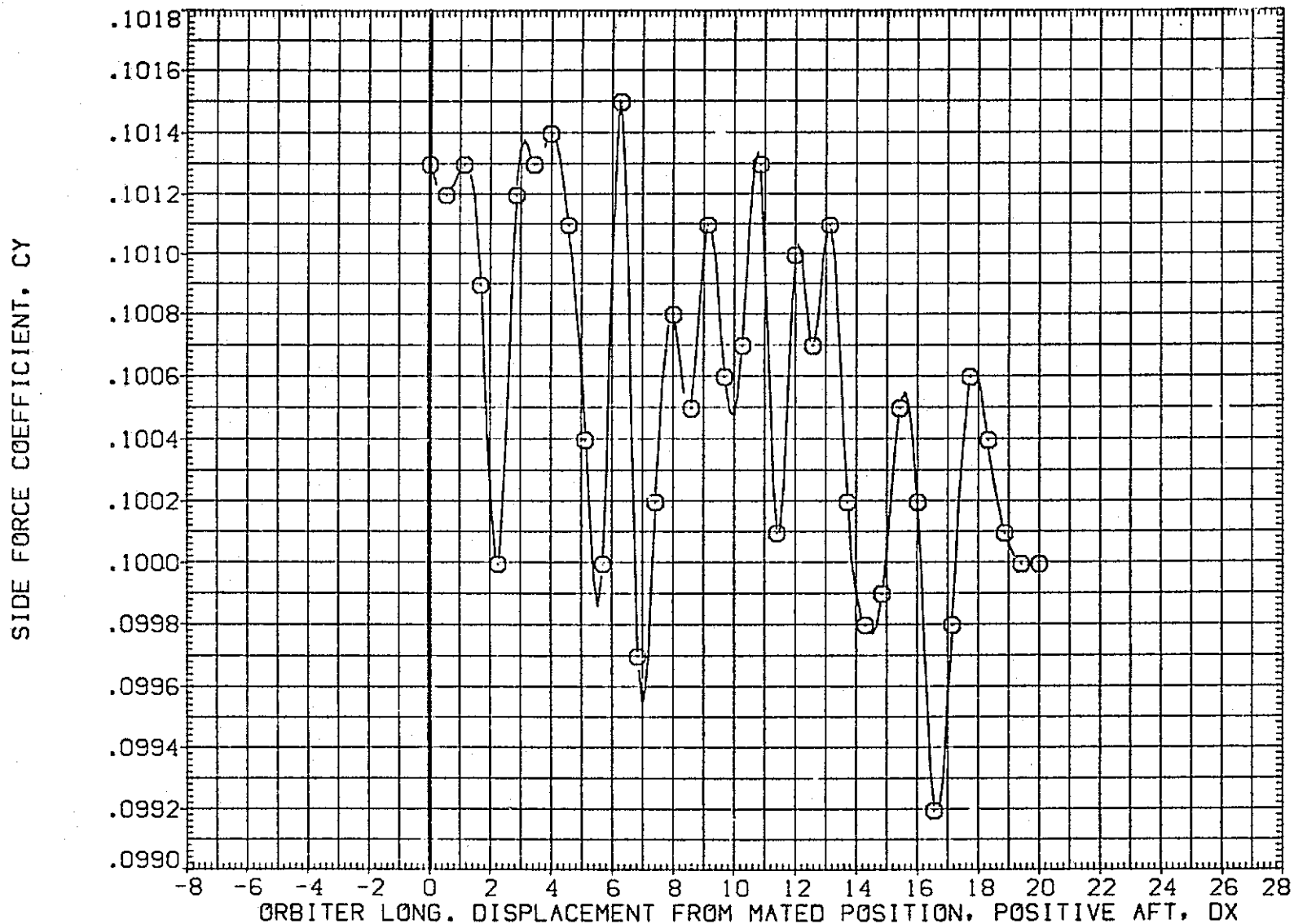


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE083)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	IN.	SQ.FT.
○	.596	2.000	-5.000	5.000	.000	5500.0000	IN.	
		5.000	5.000	.000	.000	327.7800	IN.	
		.000	.000	.000	.000	2348.0400	IN.	
		.000	6.000	.000	.000	1339.9000	IN.	XC
		.000	.000	.000	.000	.0000	IN.	YC
						190.7500	IN.	ZC
						.0125		

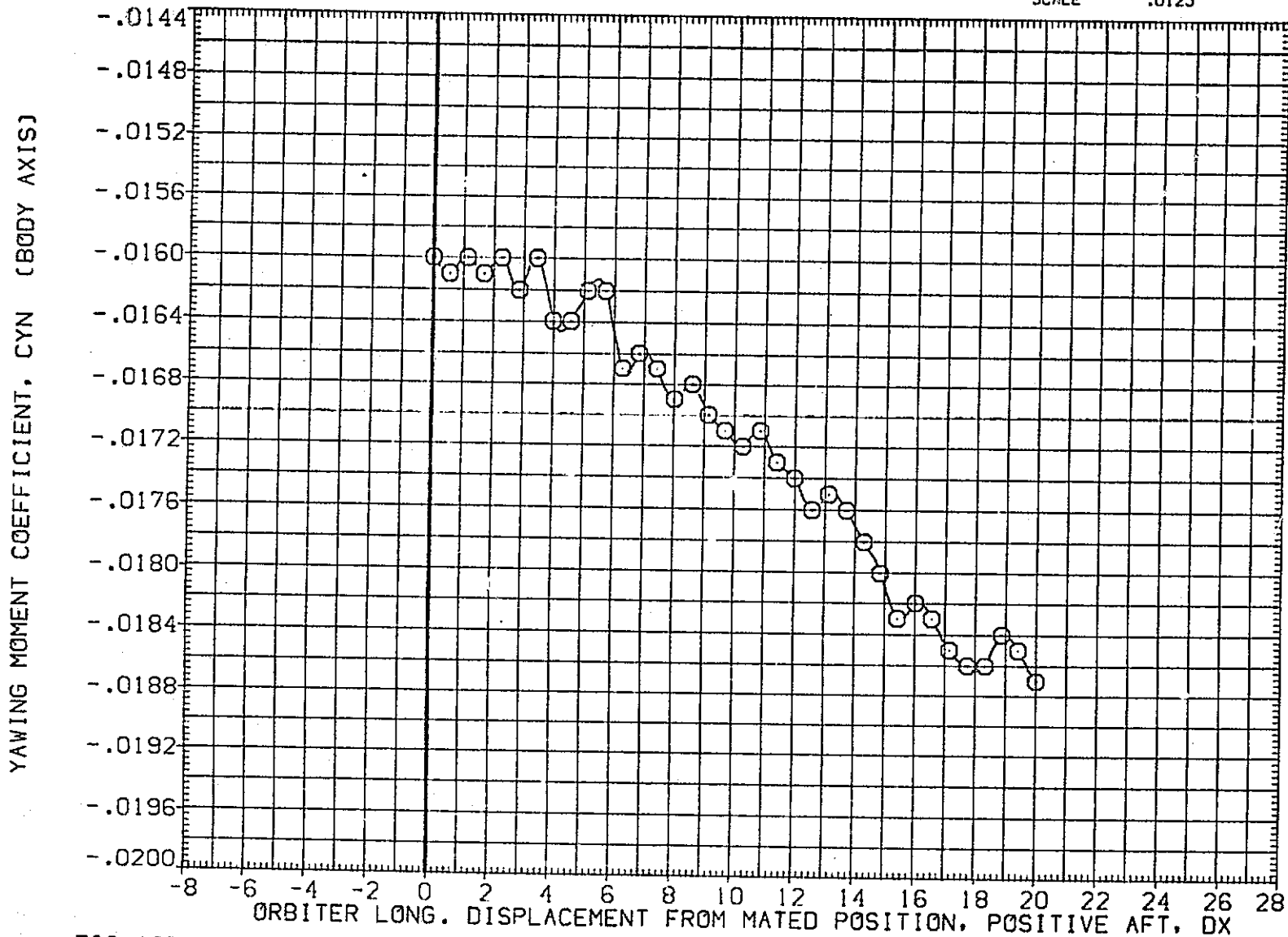


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.596	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

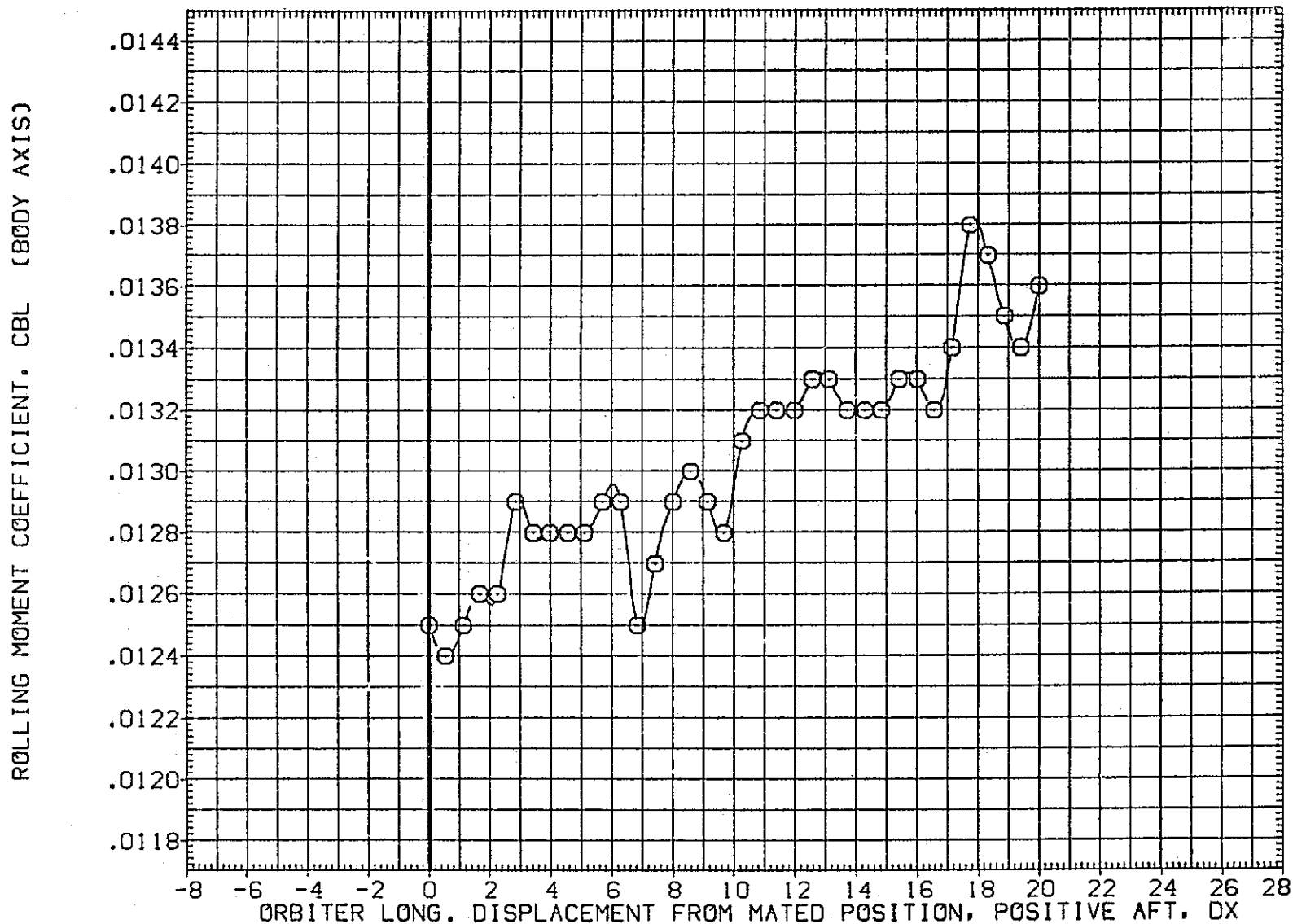


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE083)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.596	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

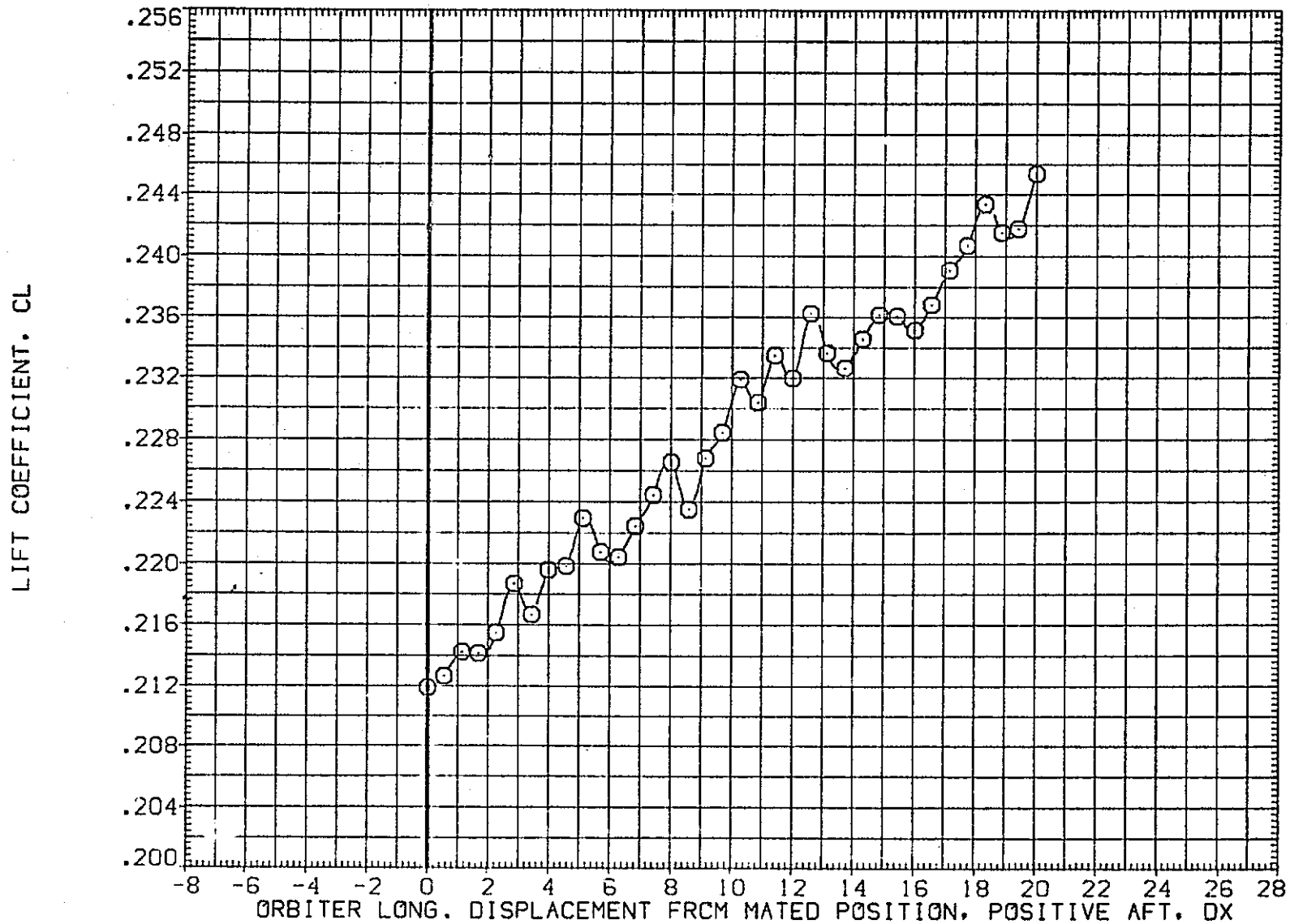


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE083

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.596	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50. FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2346.0400	IN.
		DZ	.000	IGRB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

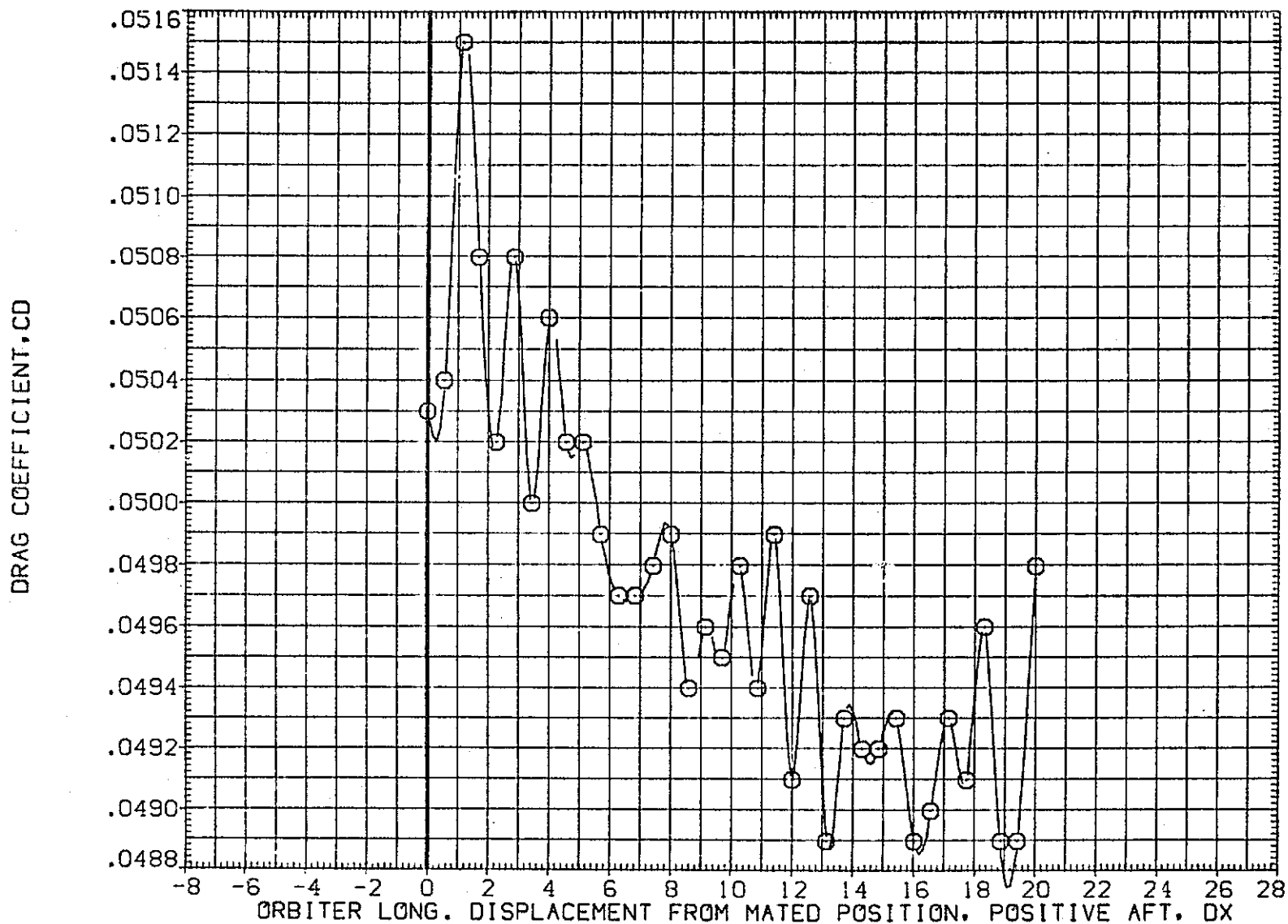


FIG.187 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IGRB=6, BETAC=-5, BETA0=0, RFE083

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE084)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BCFLAP	.000	OY	.000	BREF	2348.0400	IN.
		OZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

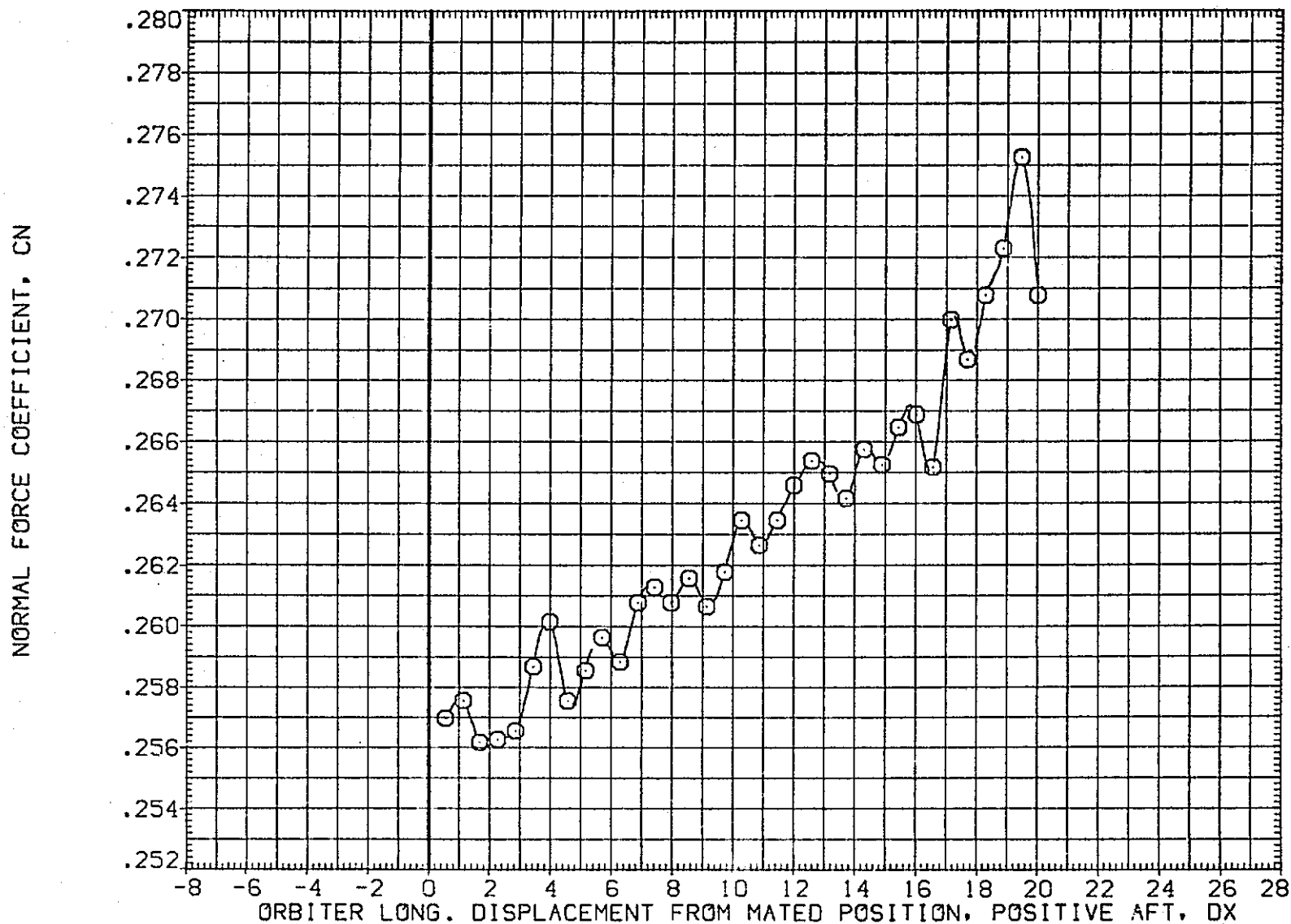


FIG.188 CARRIER DATA, ORG. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

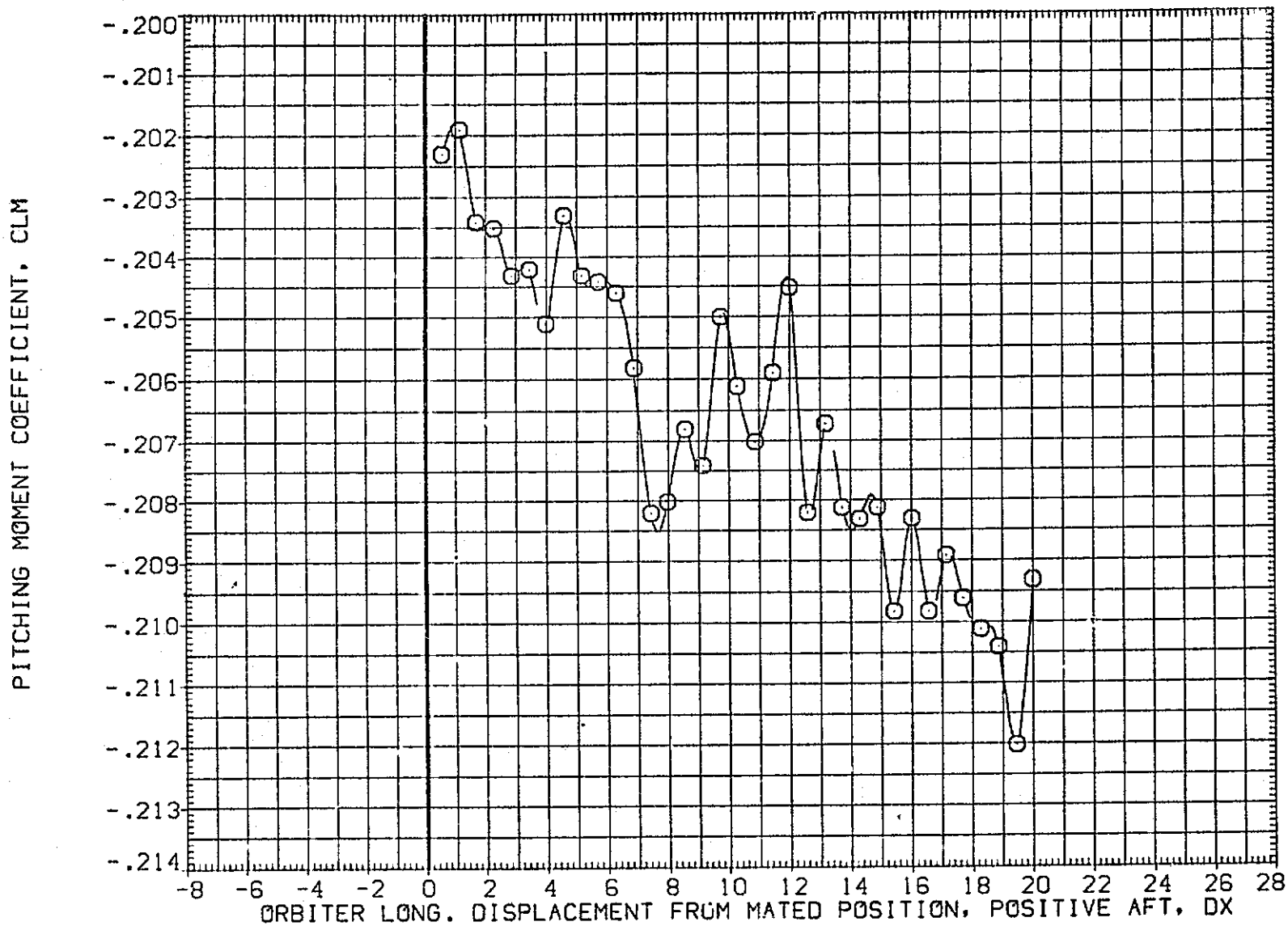


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE084)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DY	SREF	SO.FT.	IN.
○	.599	2.000	-5.000	5.000	.000	5500.0000	50.0000	IN.
		5.000	5.000	.000		327.7800	IN.	
		.000	.000	15.000	1.000	2348.0400	IN.	XC
		15.000	6.000	.000		1339.9000	IN.	YC
		.000	.000			.0000	IN.	ZC
						190.7500	IN.	
						.0125	SCALE	

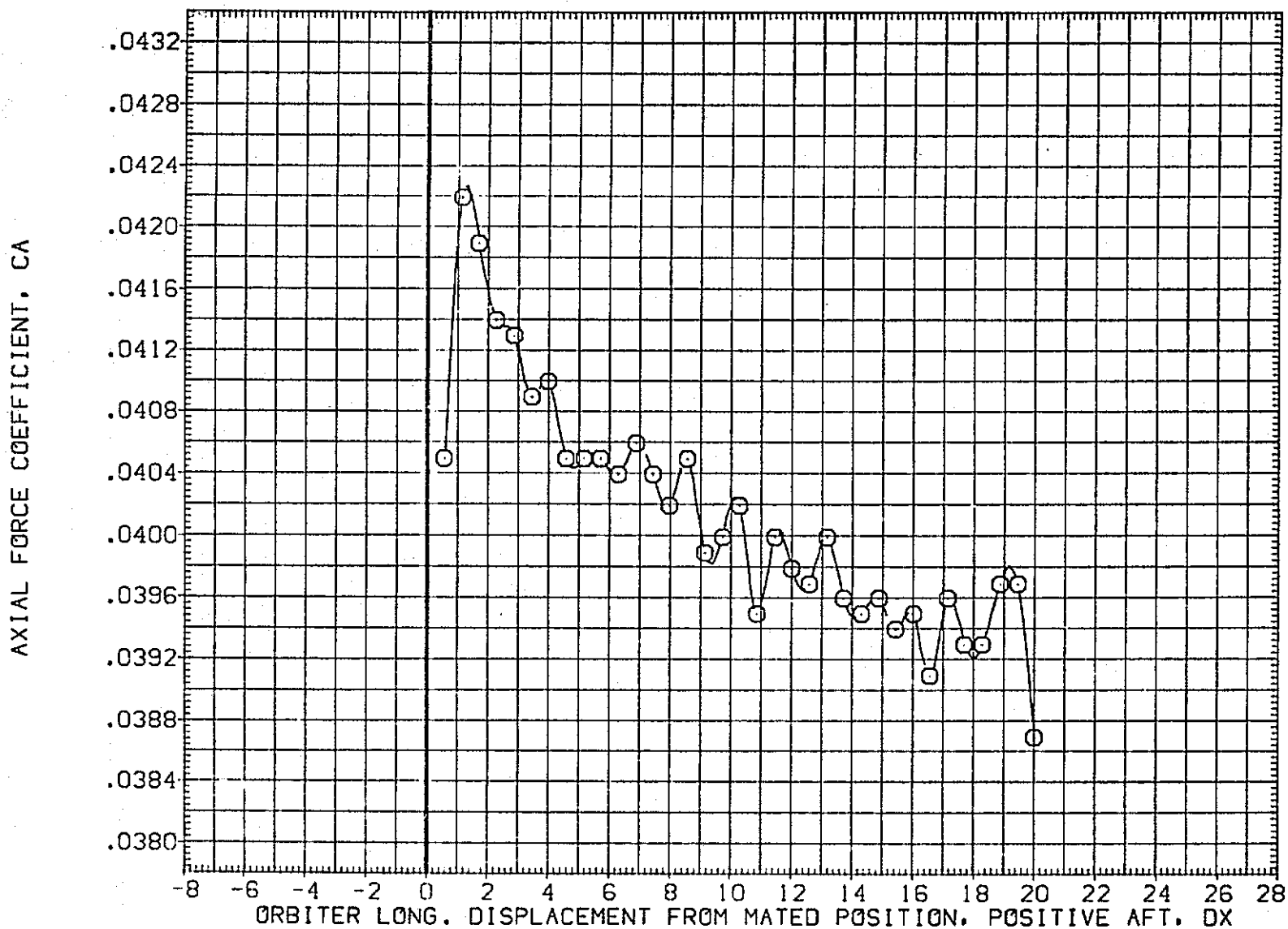


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	15.000	ICRB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

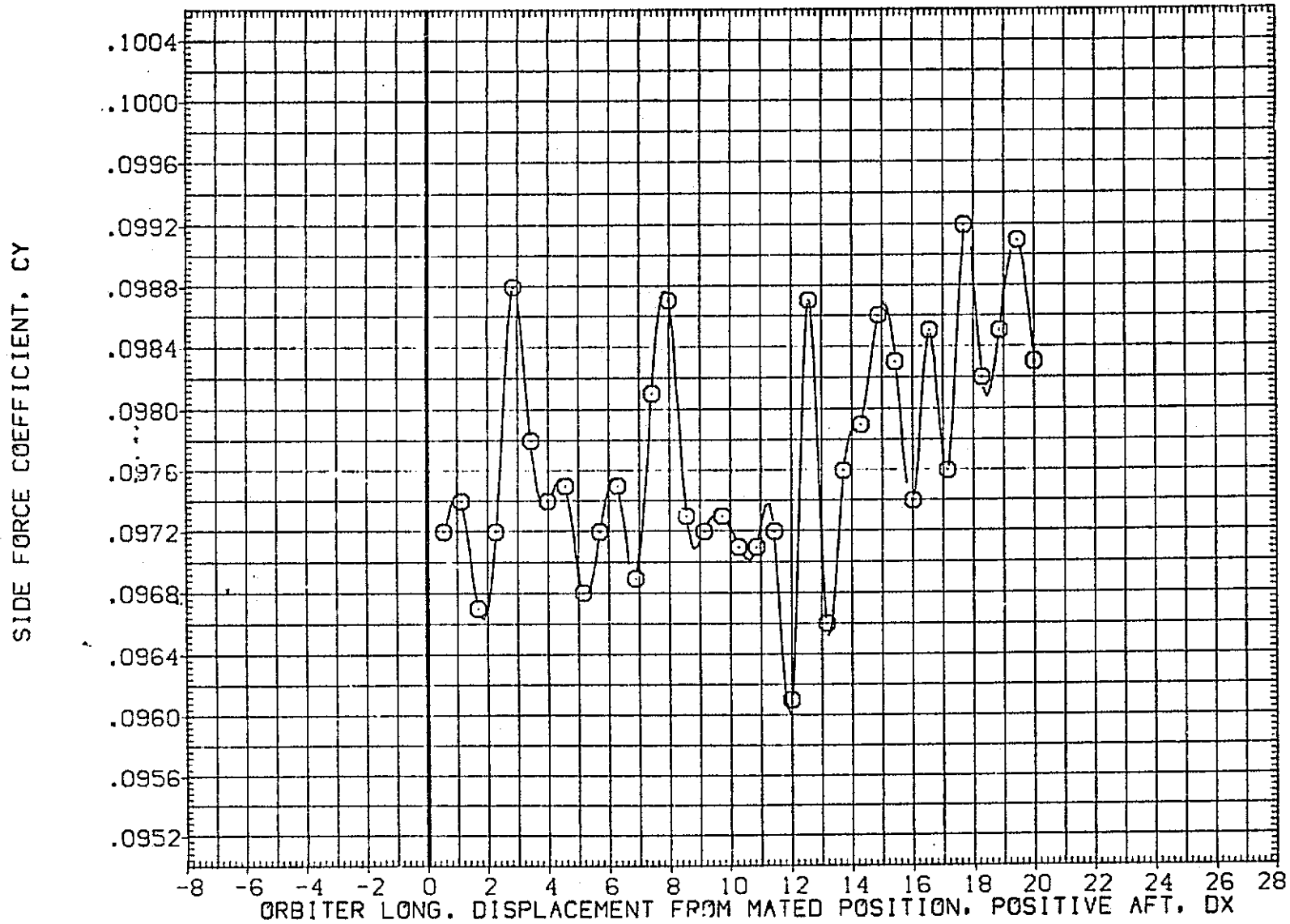


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=-5, BETA0=0, RFE084

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE084)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION														
		ALPHAC	BETAC	ELEVON	DY	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	IN.	IN.	IN.	IN.	IN.	IN.	
○	.599	2.000	-5.000	5.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125								
		BOFLAP	DY	IORB	RUDDER															
		.000	.000	6.000	.000															
		DZ	IORB	6.000																
		BETA0	.000	RUDDER	.000															

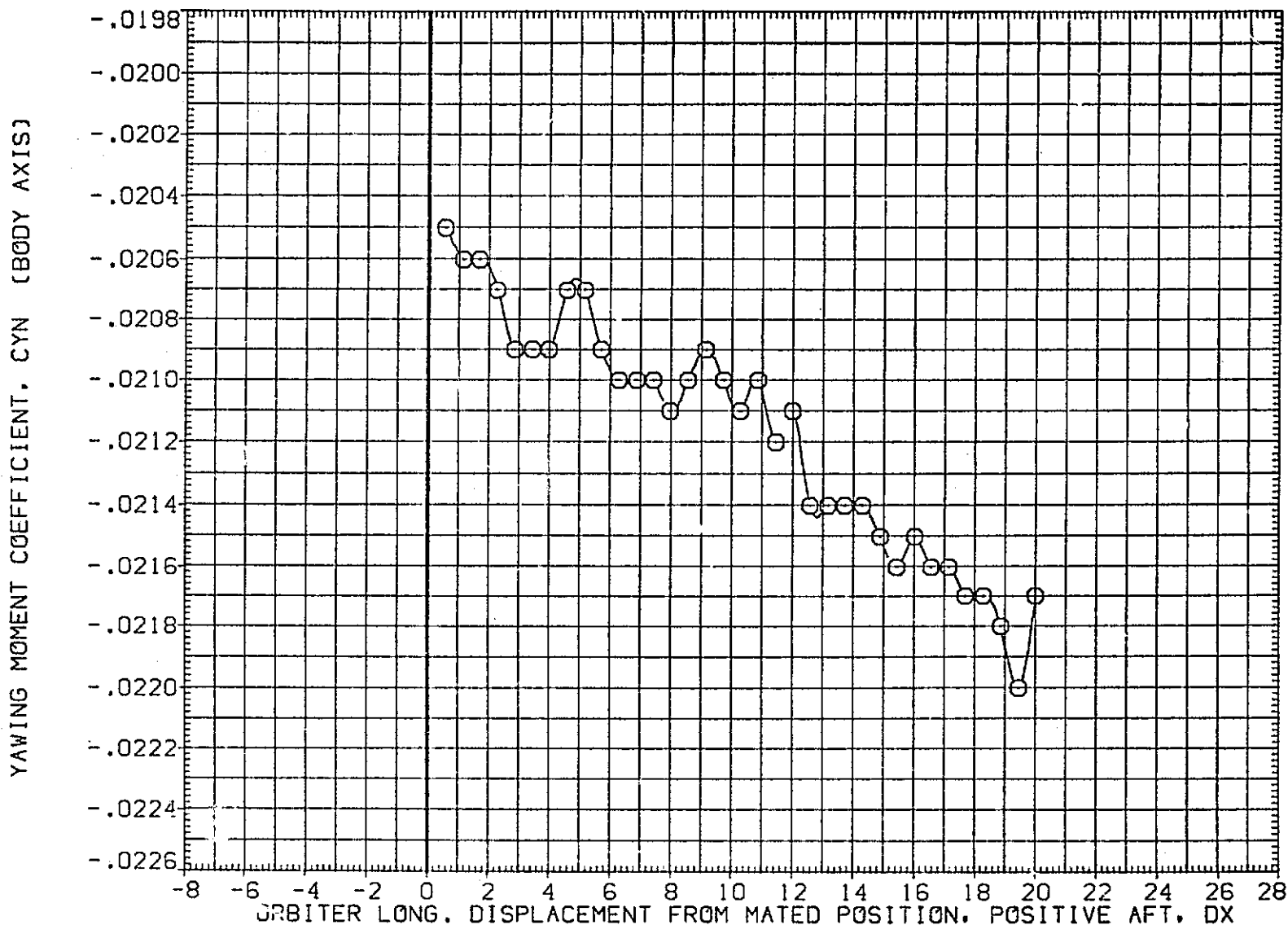


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

SYMBOL
○MACH
.599

PARAMETRIC VALUES	
ALPHAC	2.000
BETAC	-5.000
STAB	5.000
ELEVON	5.000
BDFLAP	.000
DY	.000
DZ	15.000
IORB	6.000
BETA0	.000
RUDDER	.000

REFERENCE INFORMATION

SREF	550.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

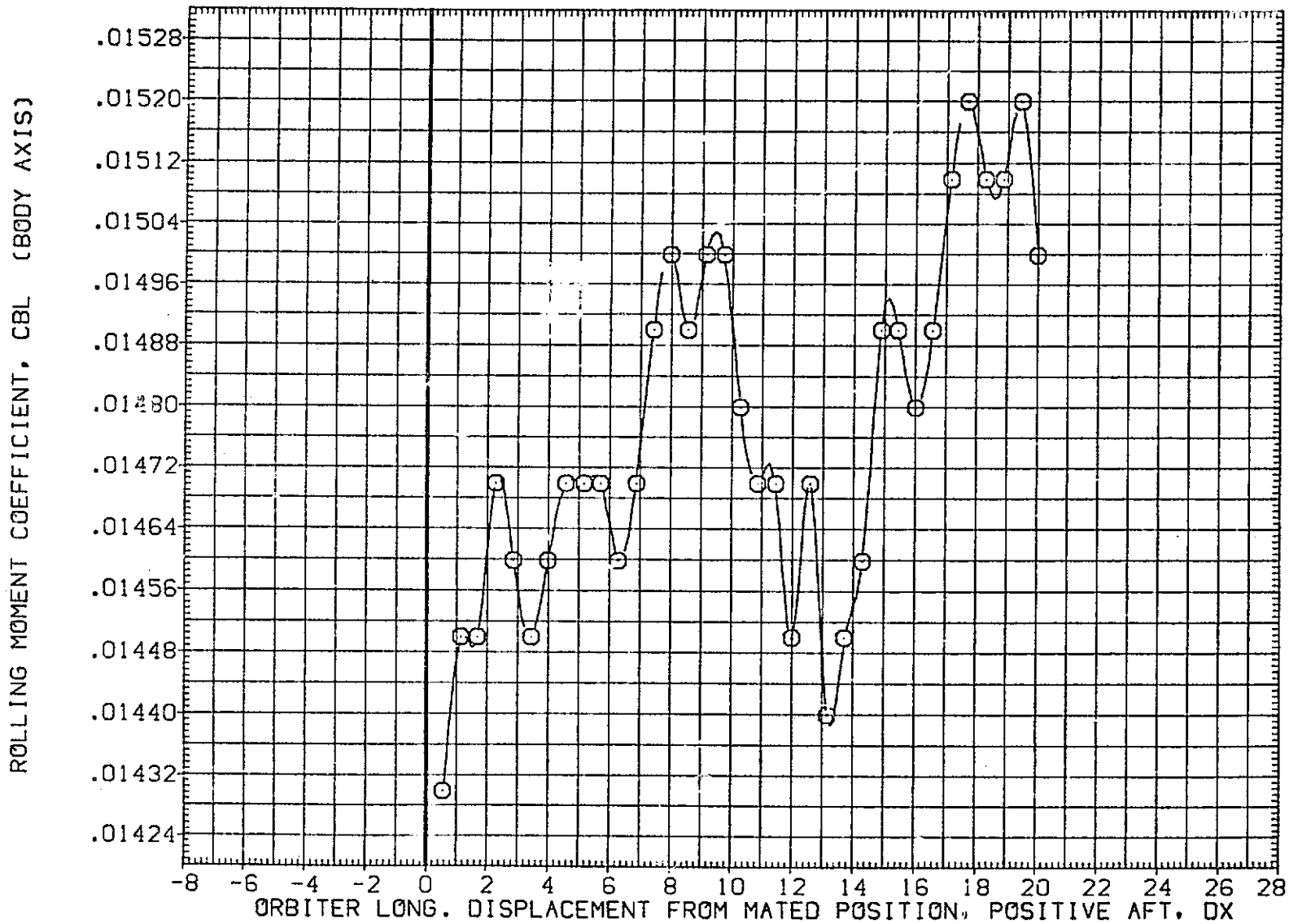


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

C.4

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE084)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

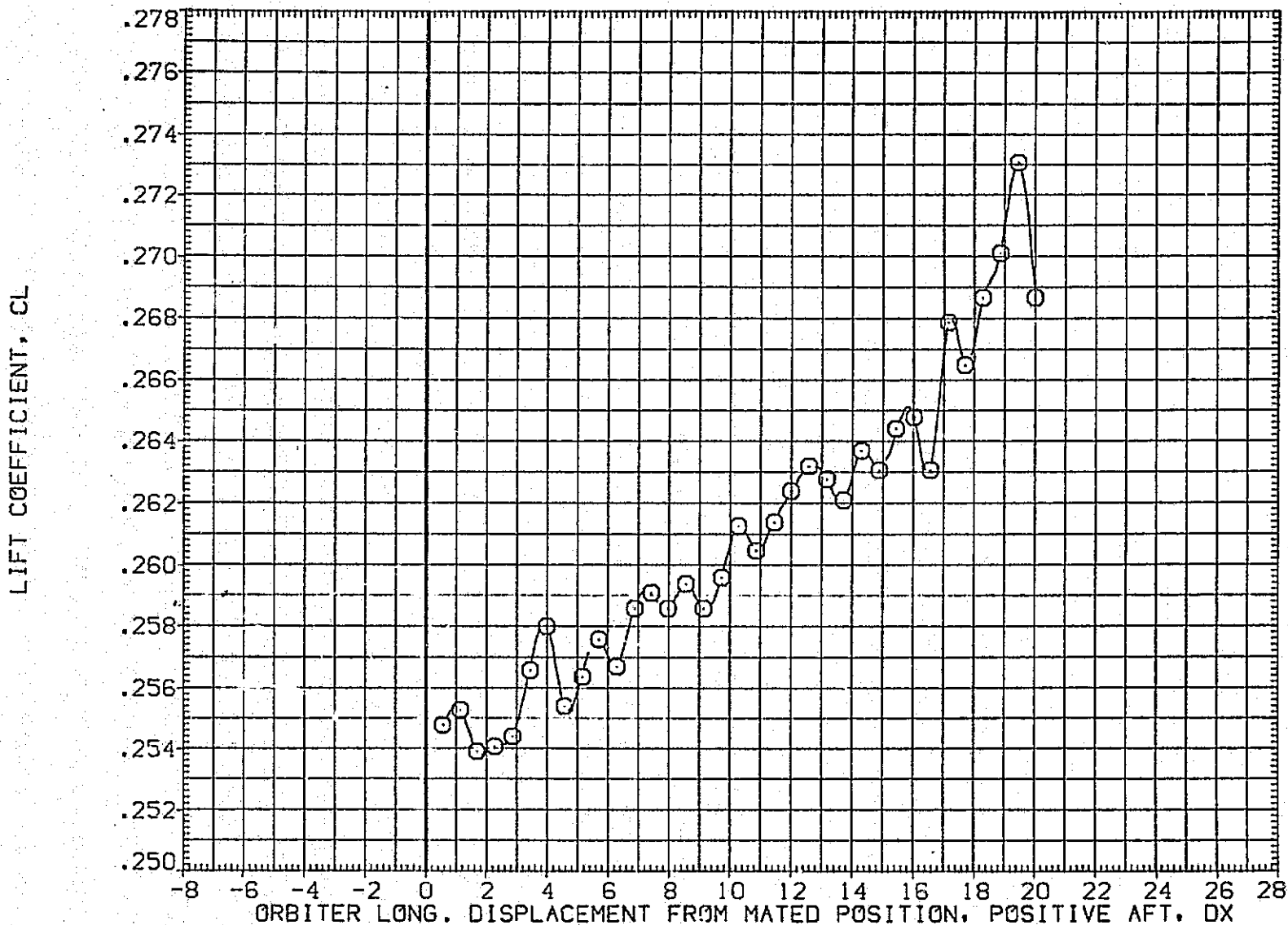


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SO. FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

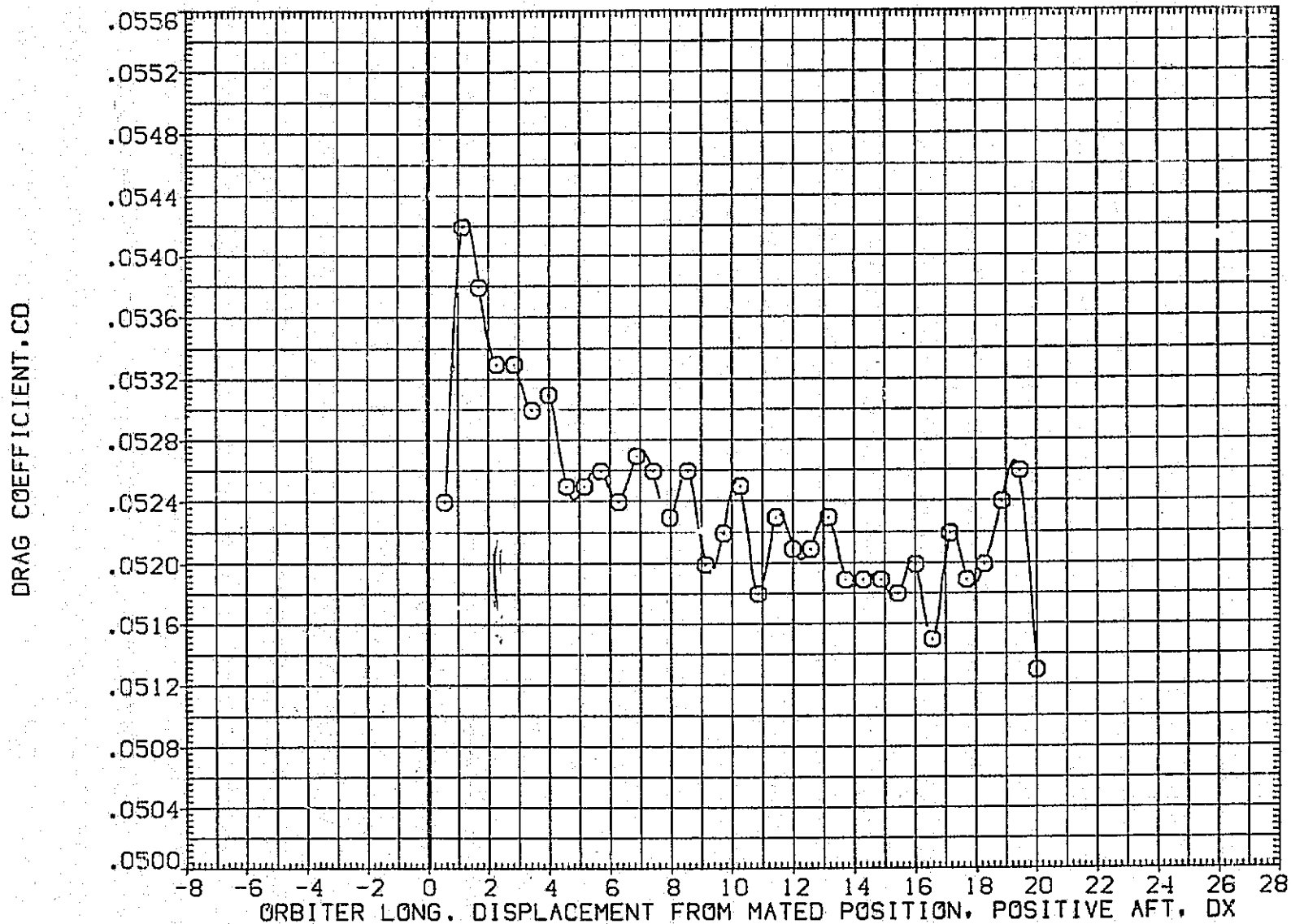


FIG.188 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE084

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE085)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	ICRB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

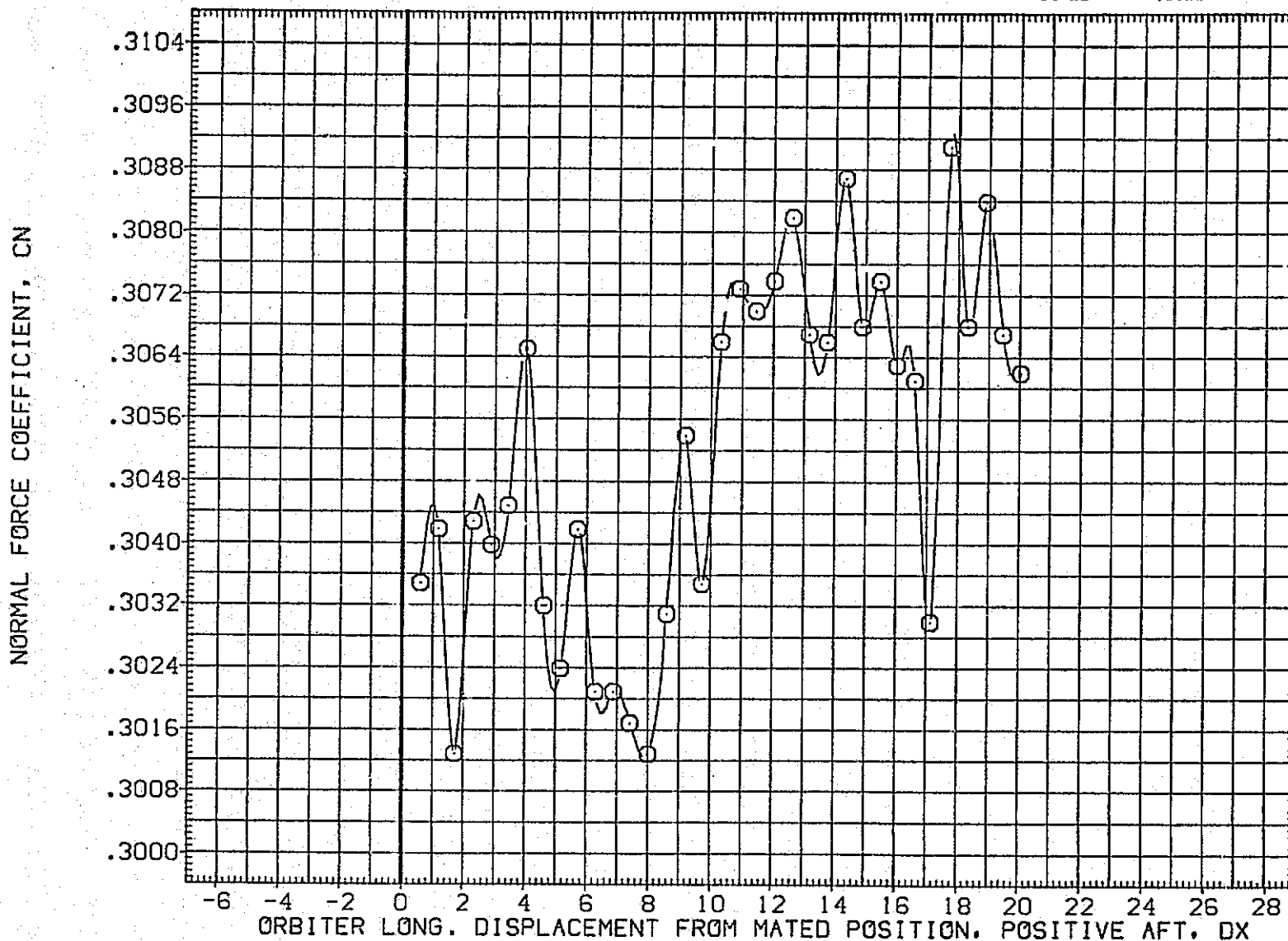


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=-5, BETA0=0, RFE085

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

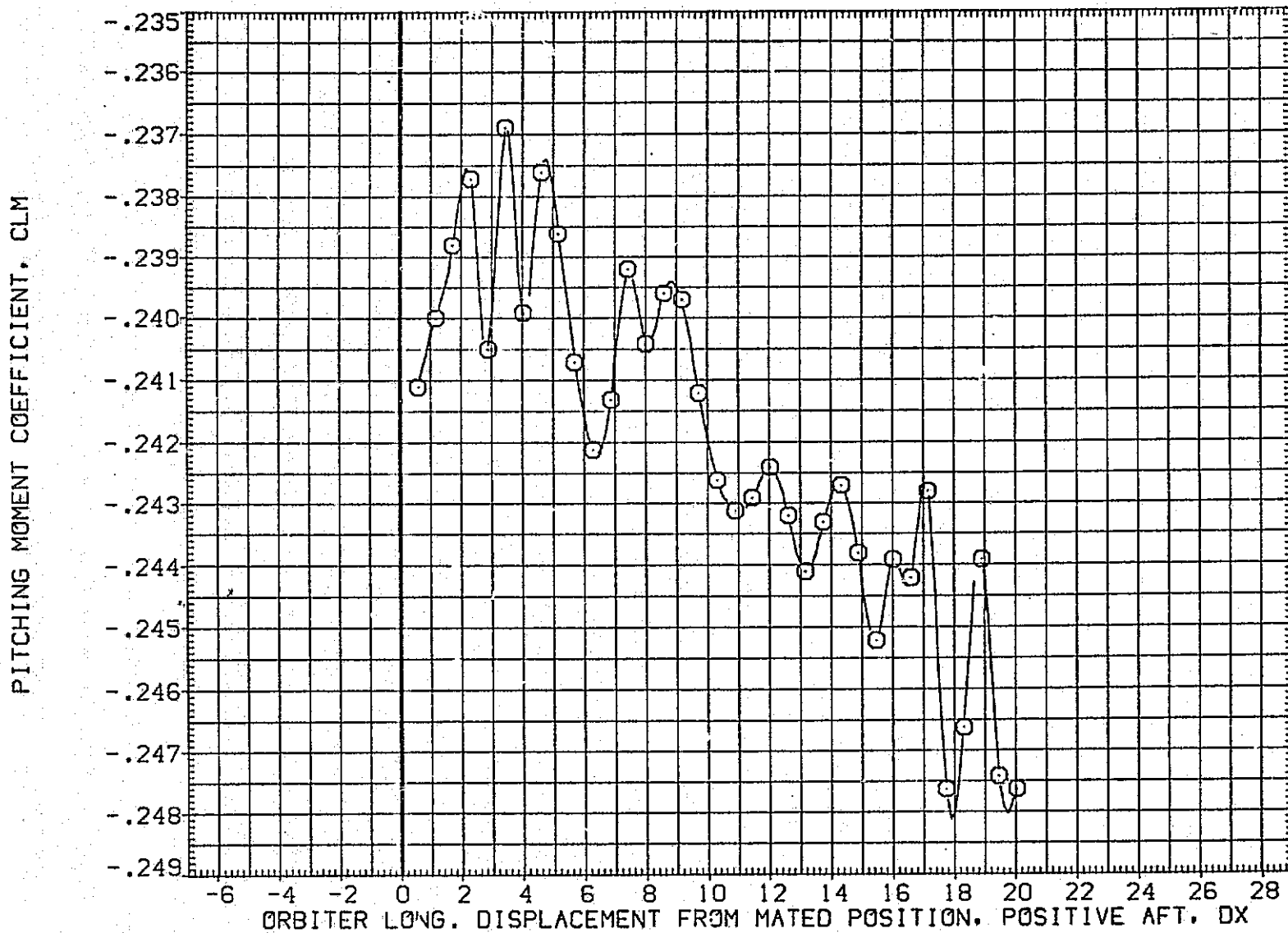


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE085)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

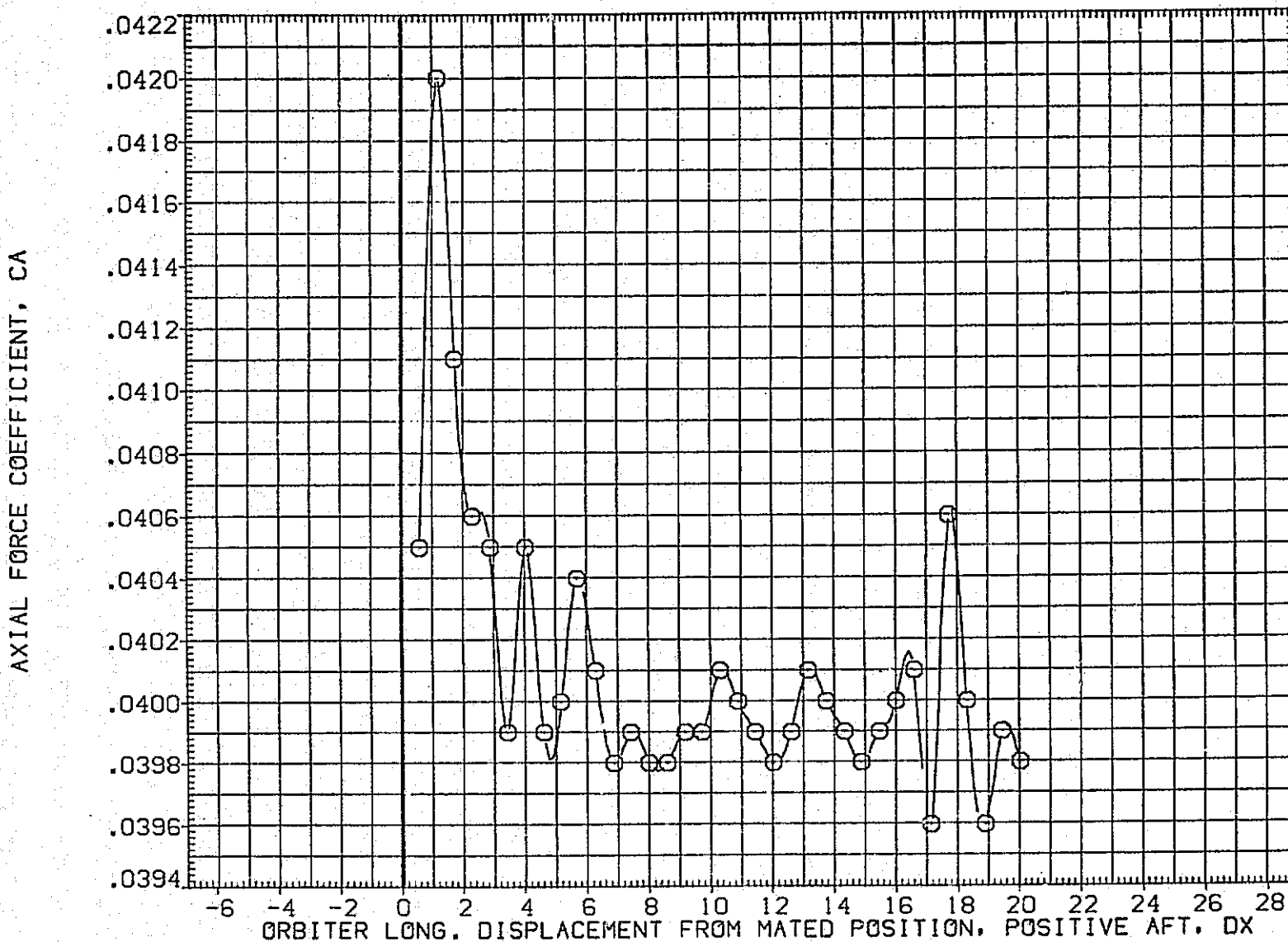


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7500	IN.
BREF	2348.0100	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

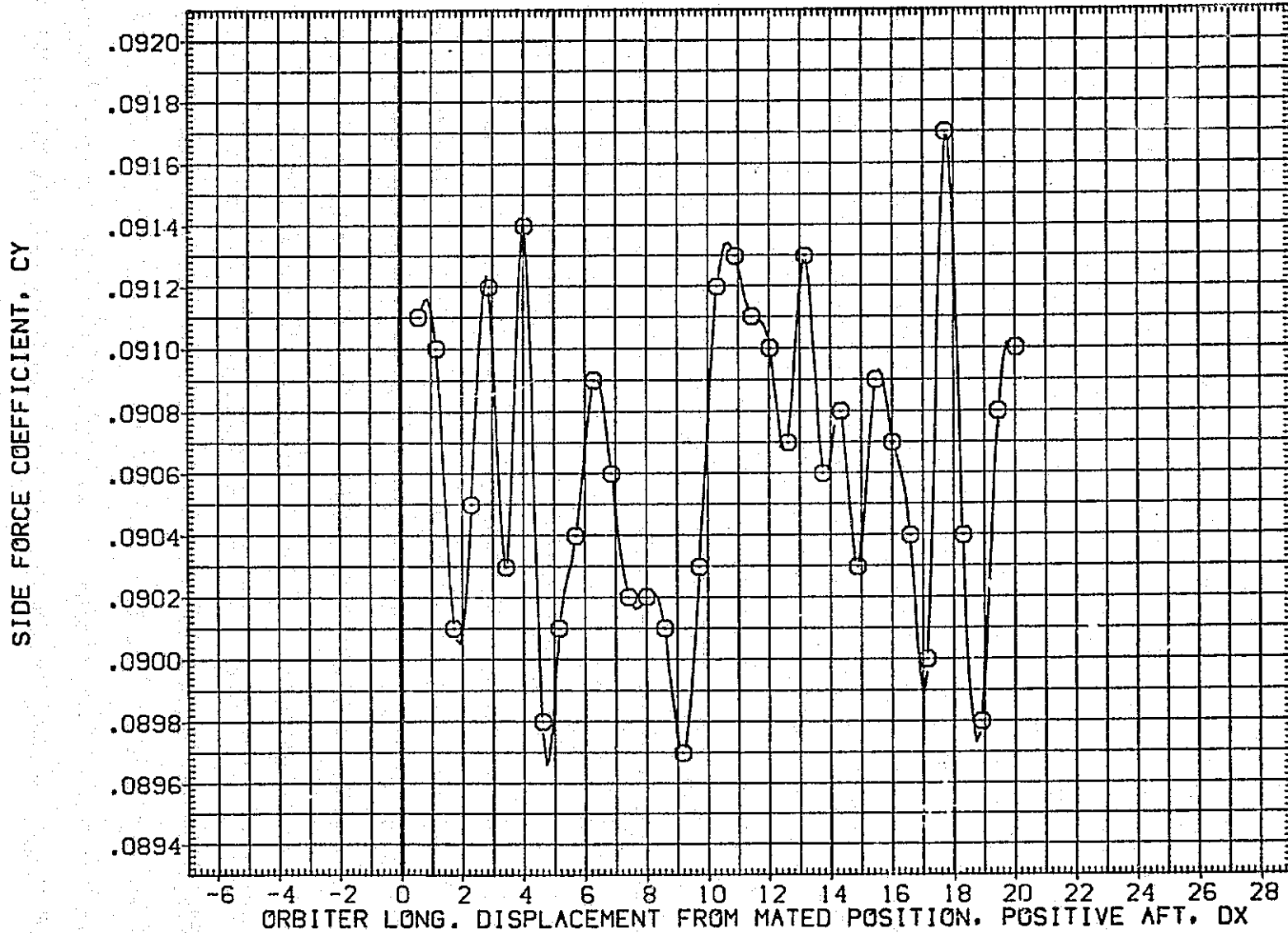


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC= 5, BETA0=0, RFE085

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE085)

SYMBOL	MACH	PARAMETRIC VALUES						REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SO.FT.		
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.		
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.		
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC		
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC		
						ZMRP	190.7500	IN. ZC		
						SCALE	.0125			

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

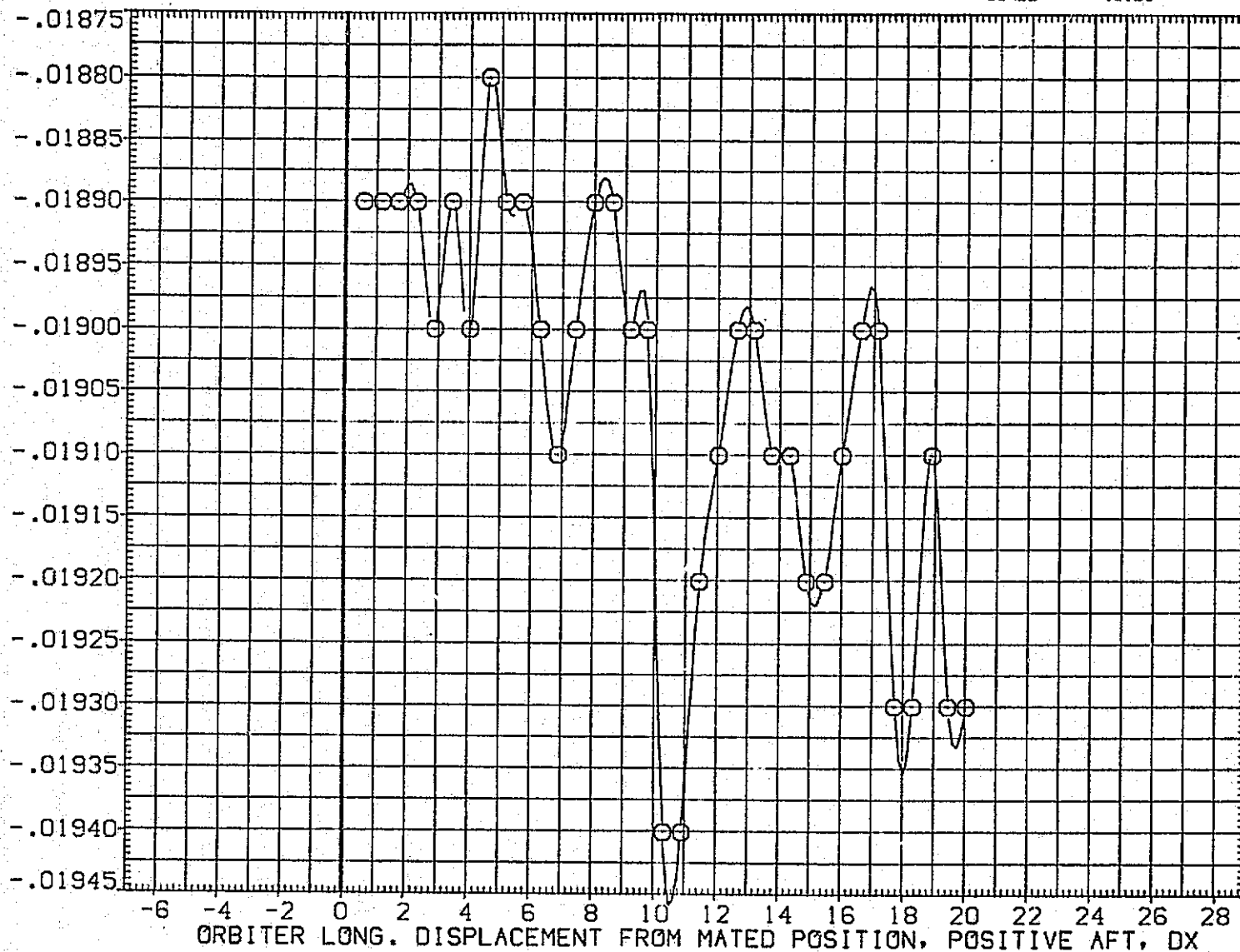


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5900.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

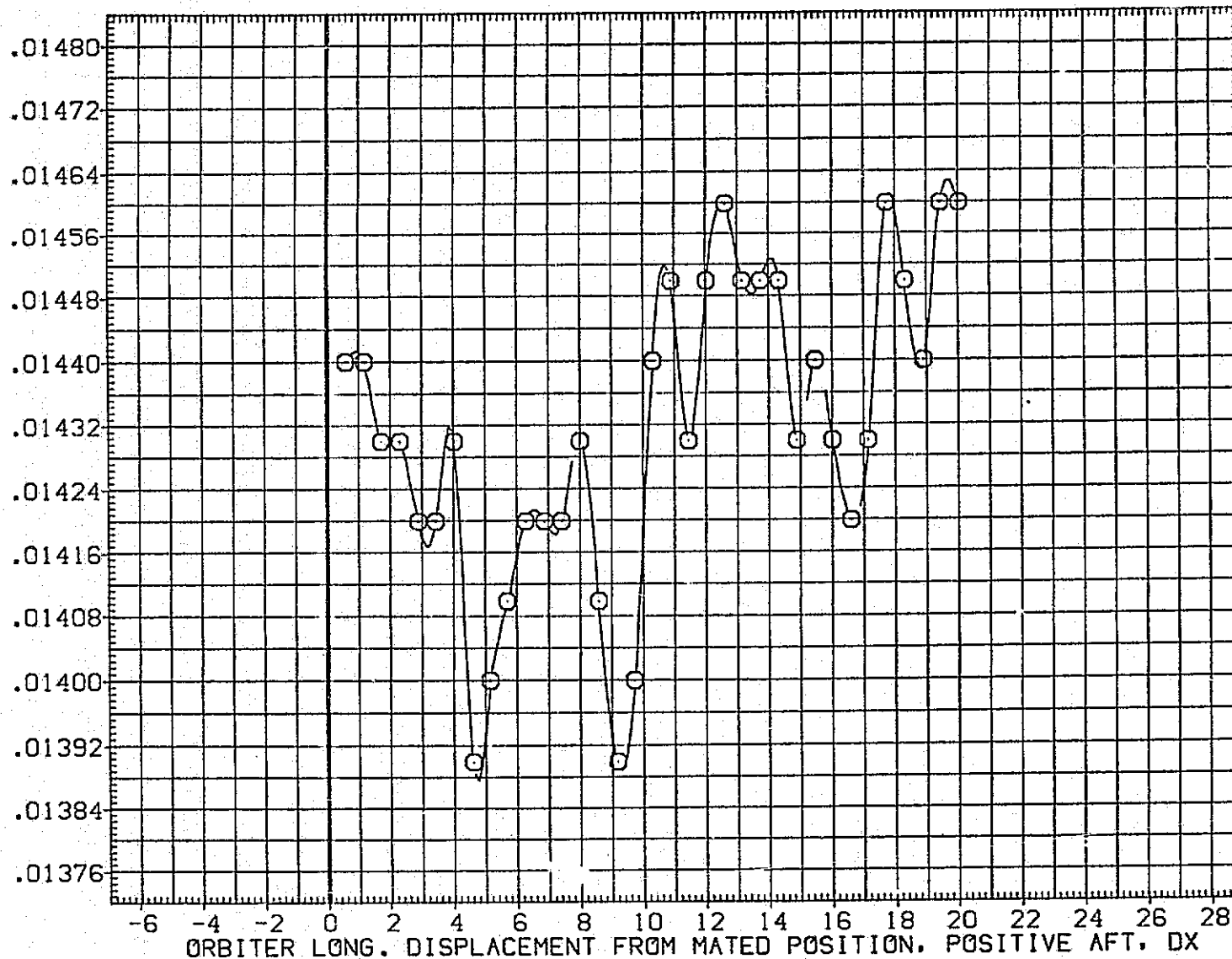


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE085)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

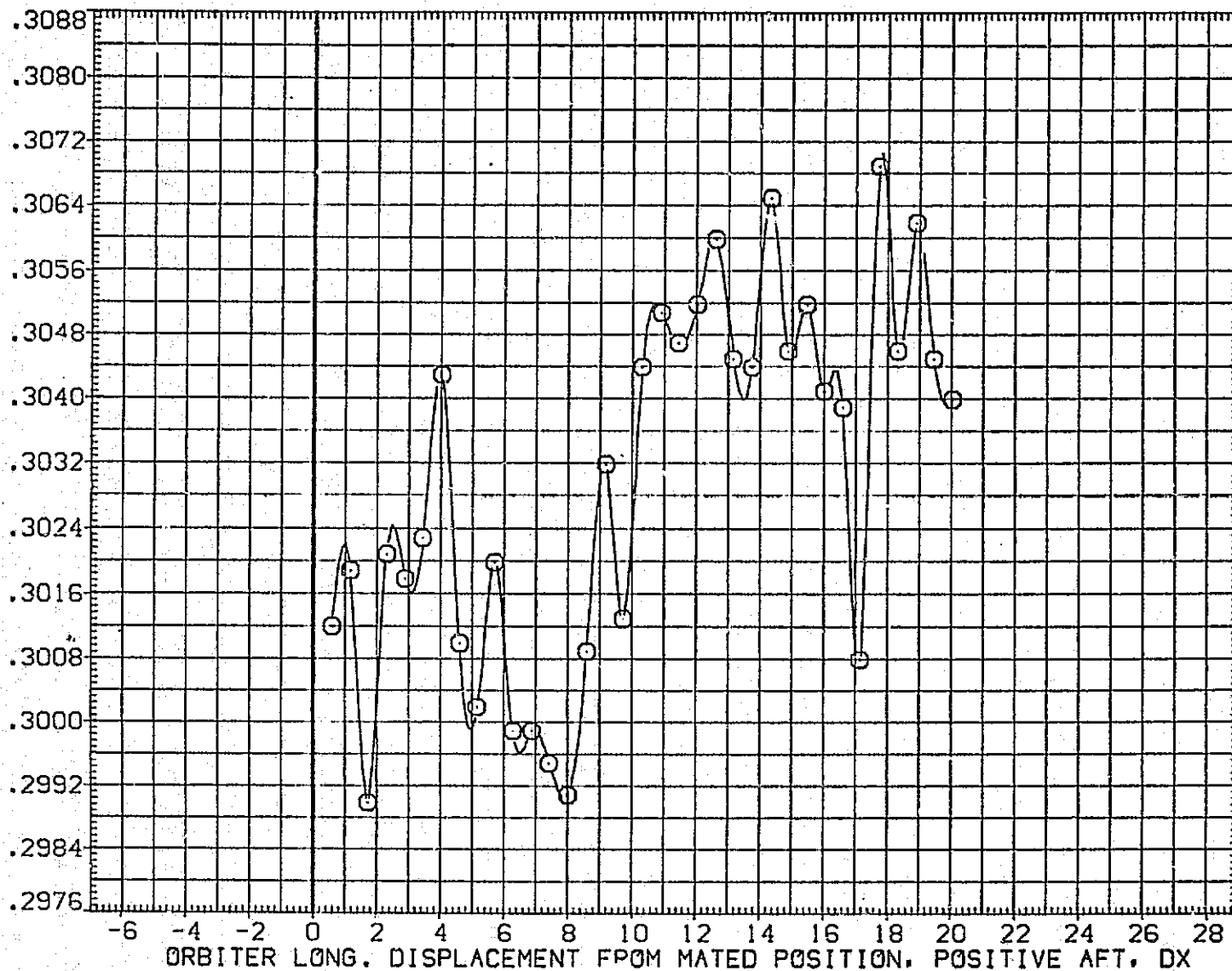


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

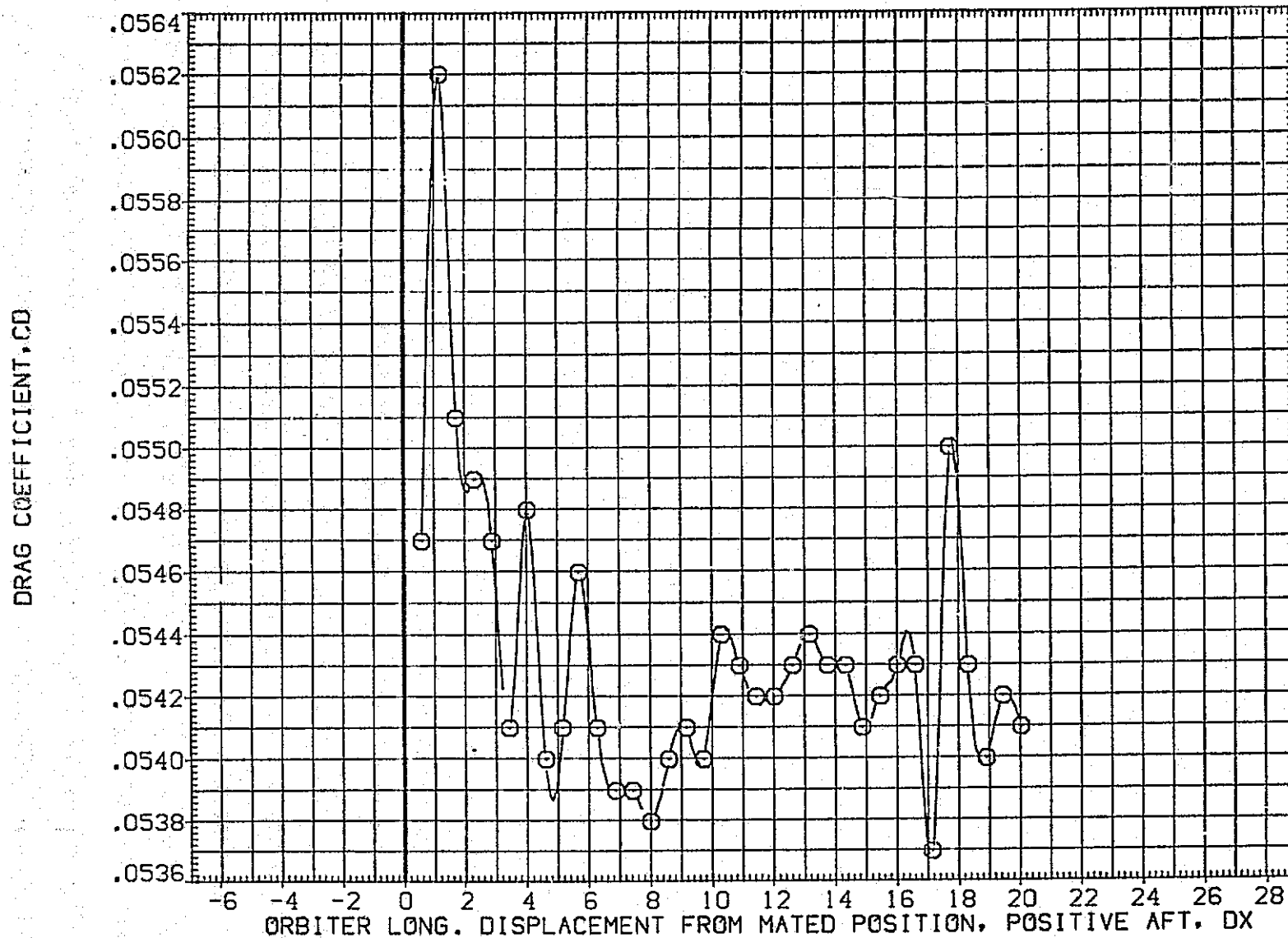


FIG.189 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE085

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE086)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		OZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

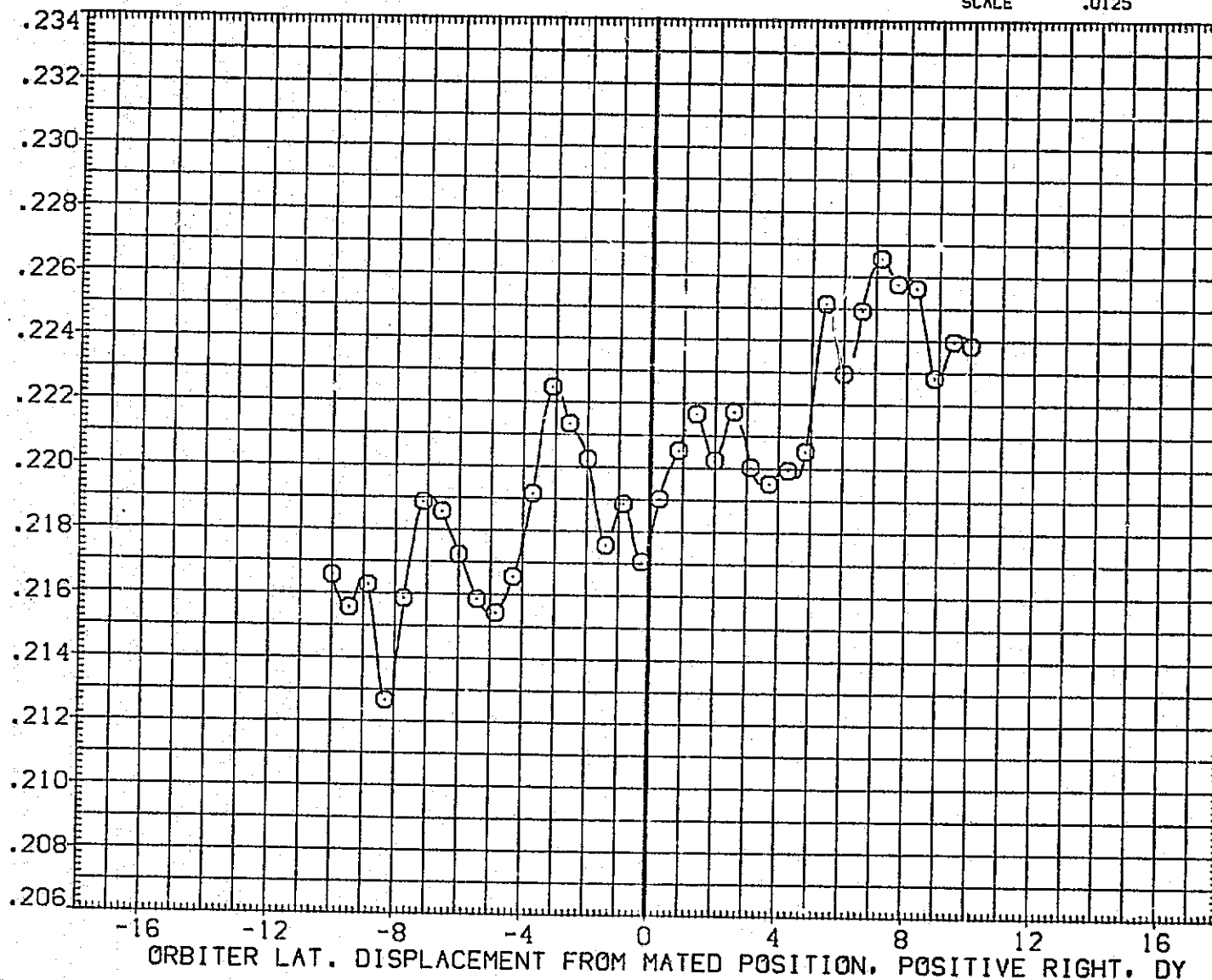


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

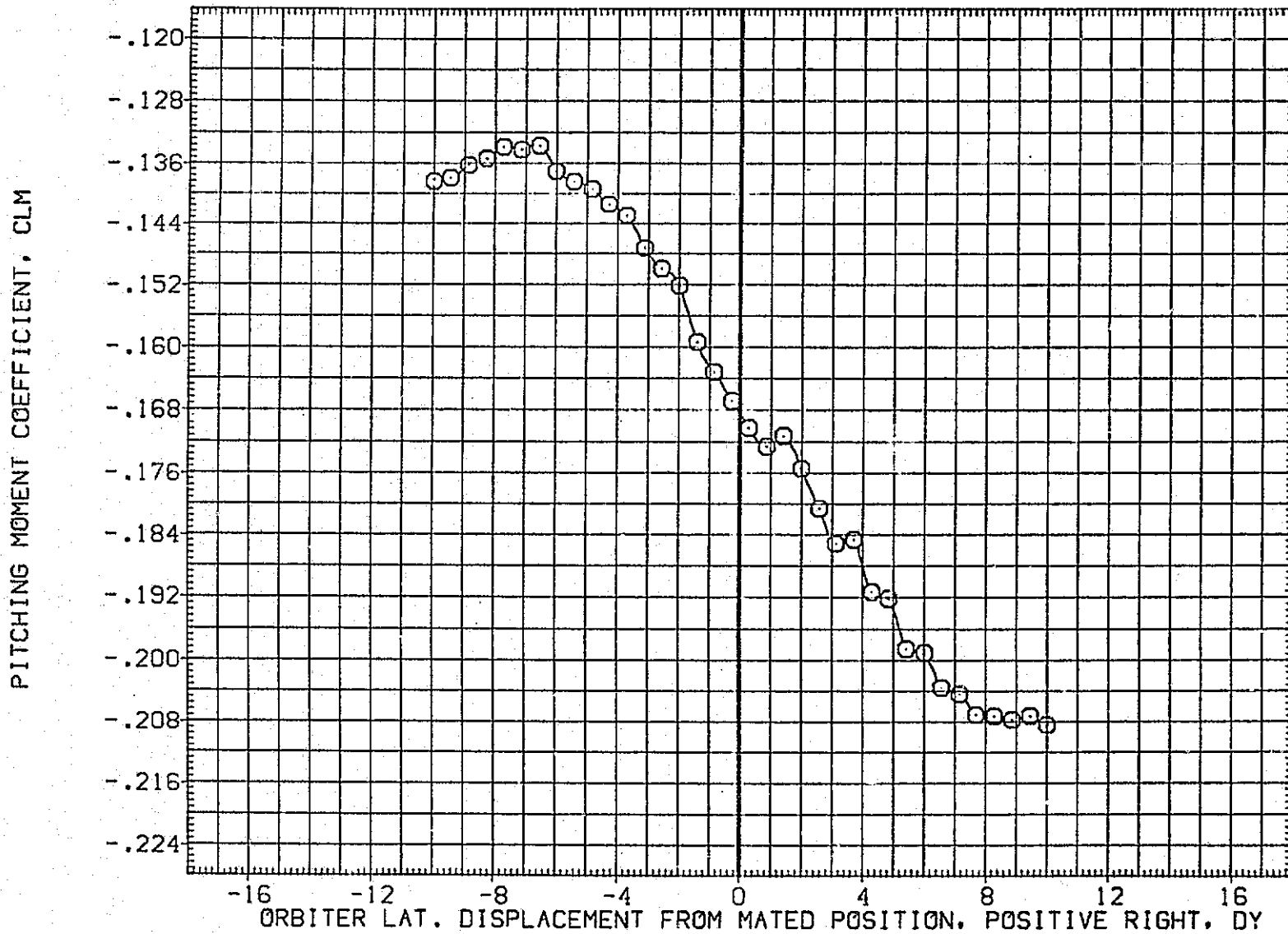


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE086)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7600	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

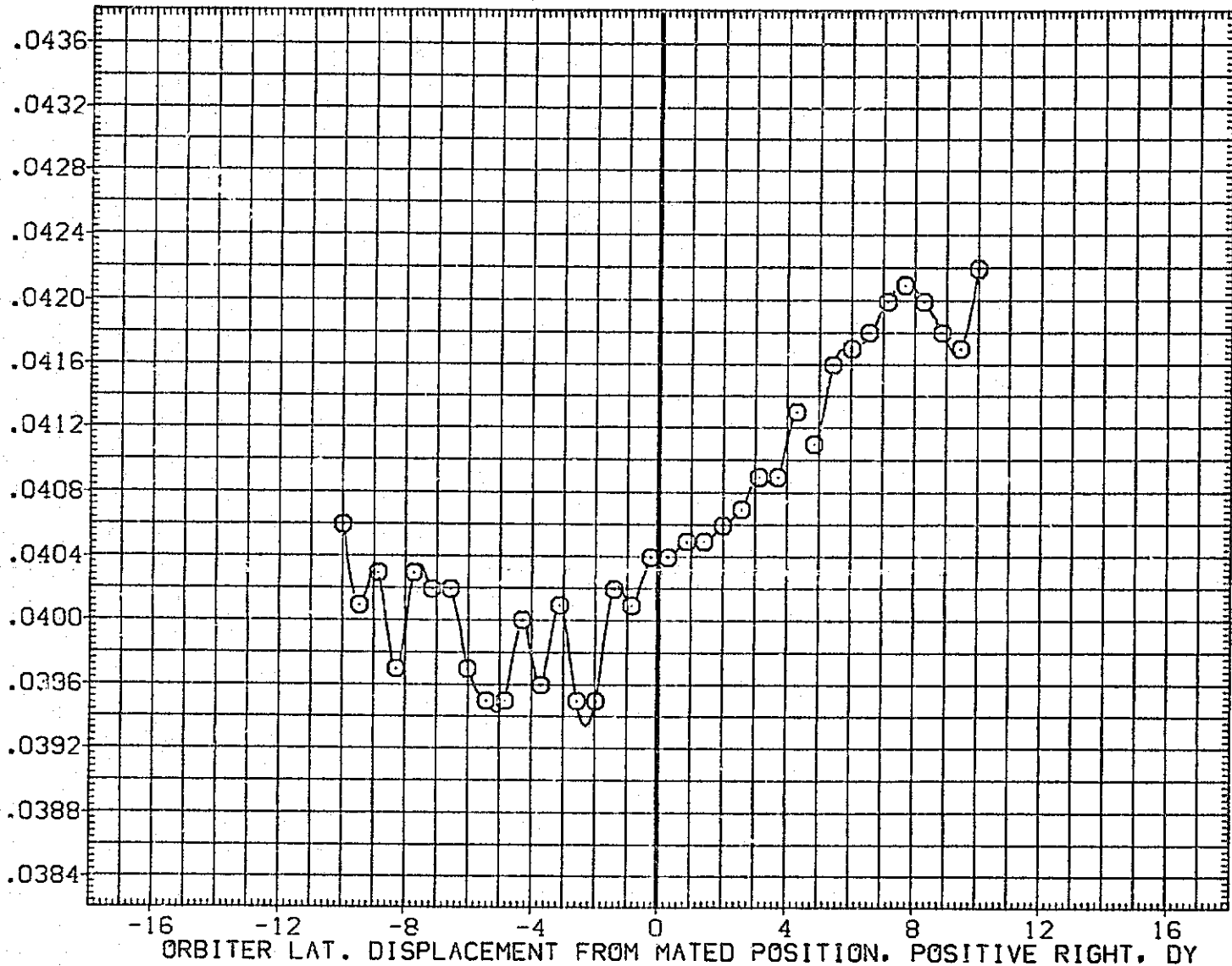


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

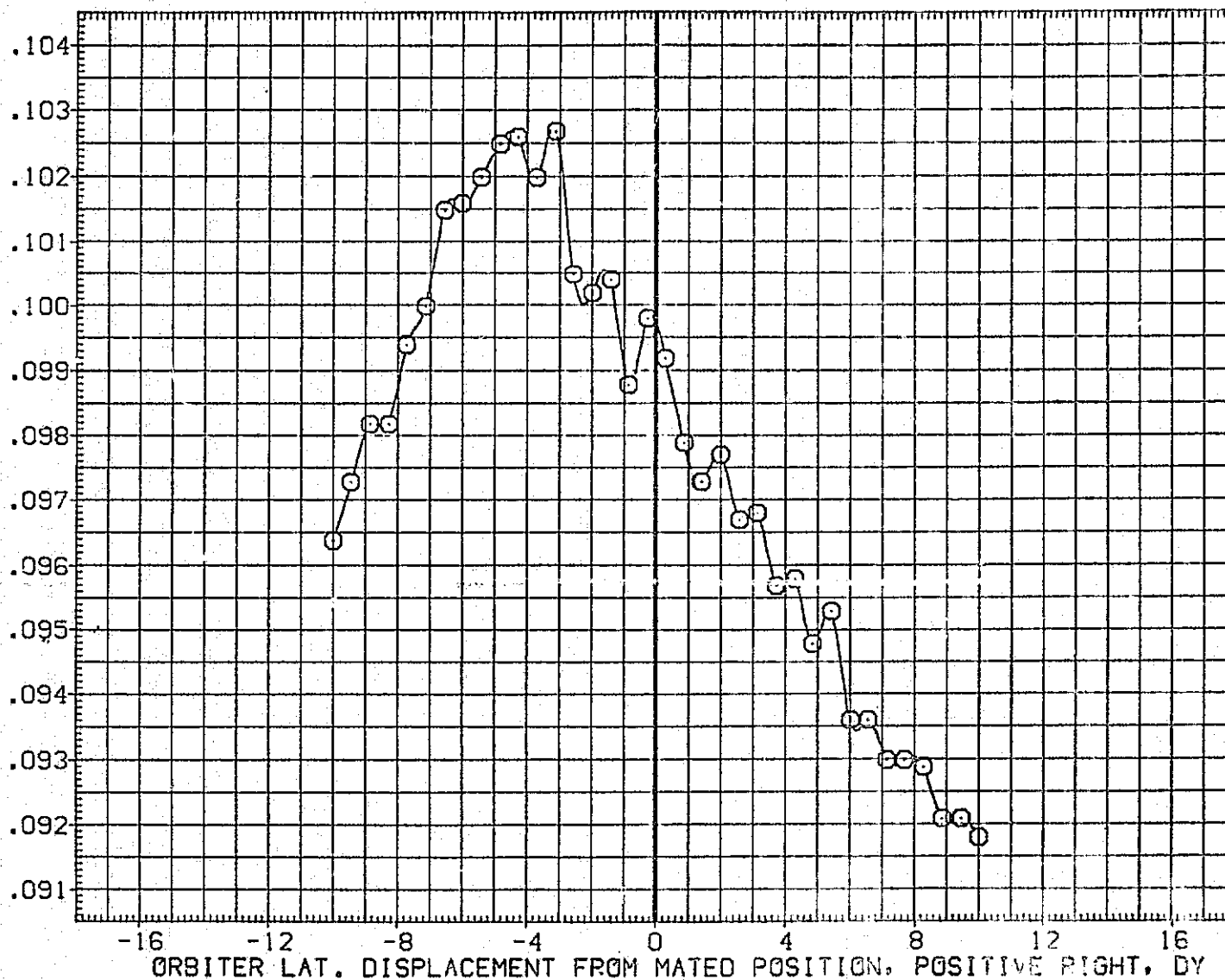


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE086)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	IN.
○	.594	2.000	-5.000	5.000	.000	5500.0000	327.7800	50.FT.
		BDFLAP	.000	10RB	6.000	BREF	2348.0400	IN.
		DZ	.000	RUDDER	.000	XMRP	1339.9000	IN.
		BETA0	.000			YMRP	.0000	IN. XC
						ZMRP	190.7500	IN. YC
						SCALE	.0125	IN. ZC

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

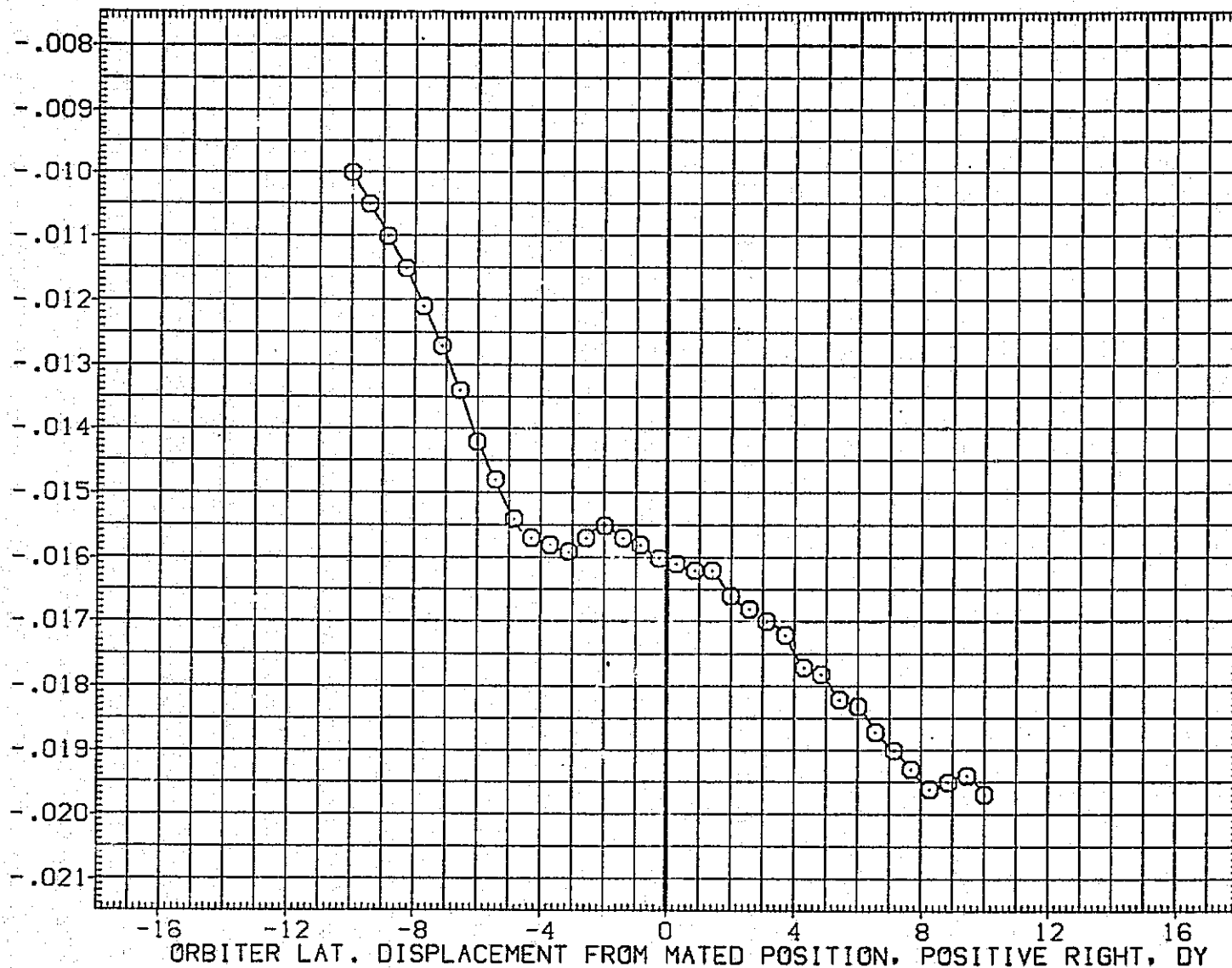


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, 10RB=6, BETAC=-5, BETA0=0, RFE086

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.8000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

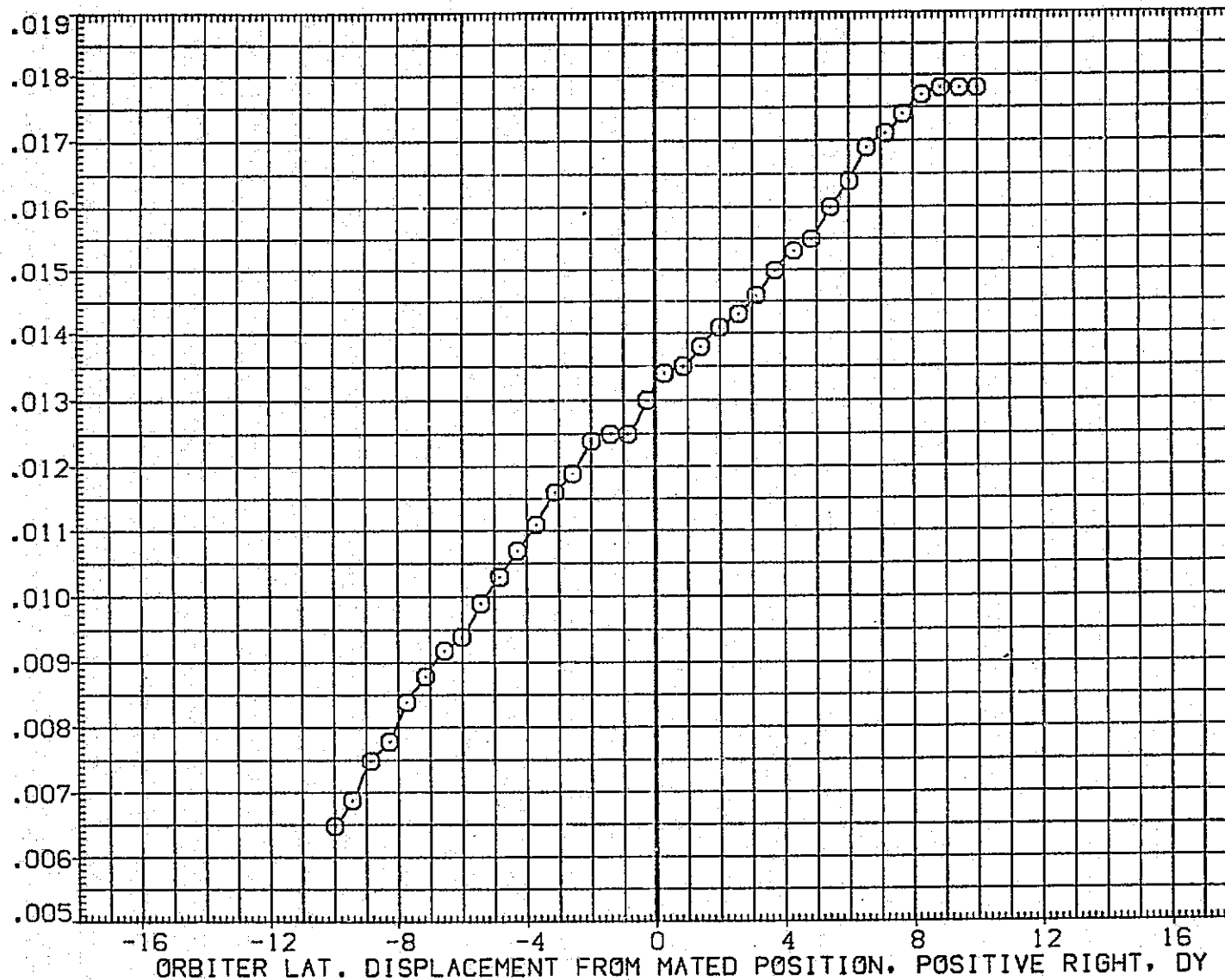


FIG.190 CARRIER DATA, CRB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE086)

SYMBOL	MACH	PARAMETRIC VALUES						REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.		
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.		
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.		
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC		
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC		
						ZMRP	190.7500	IN. ZC		
						SCALE	.0125			

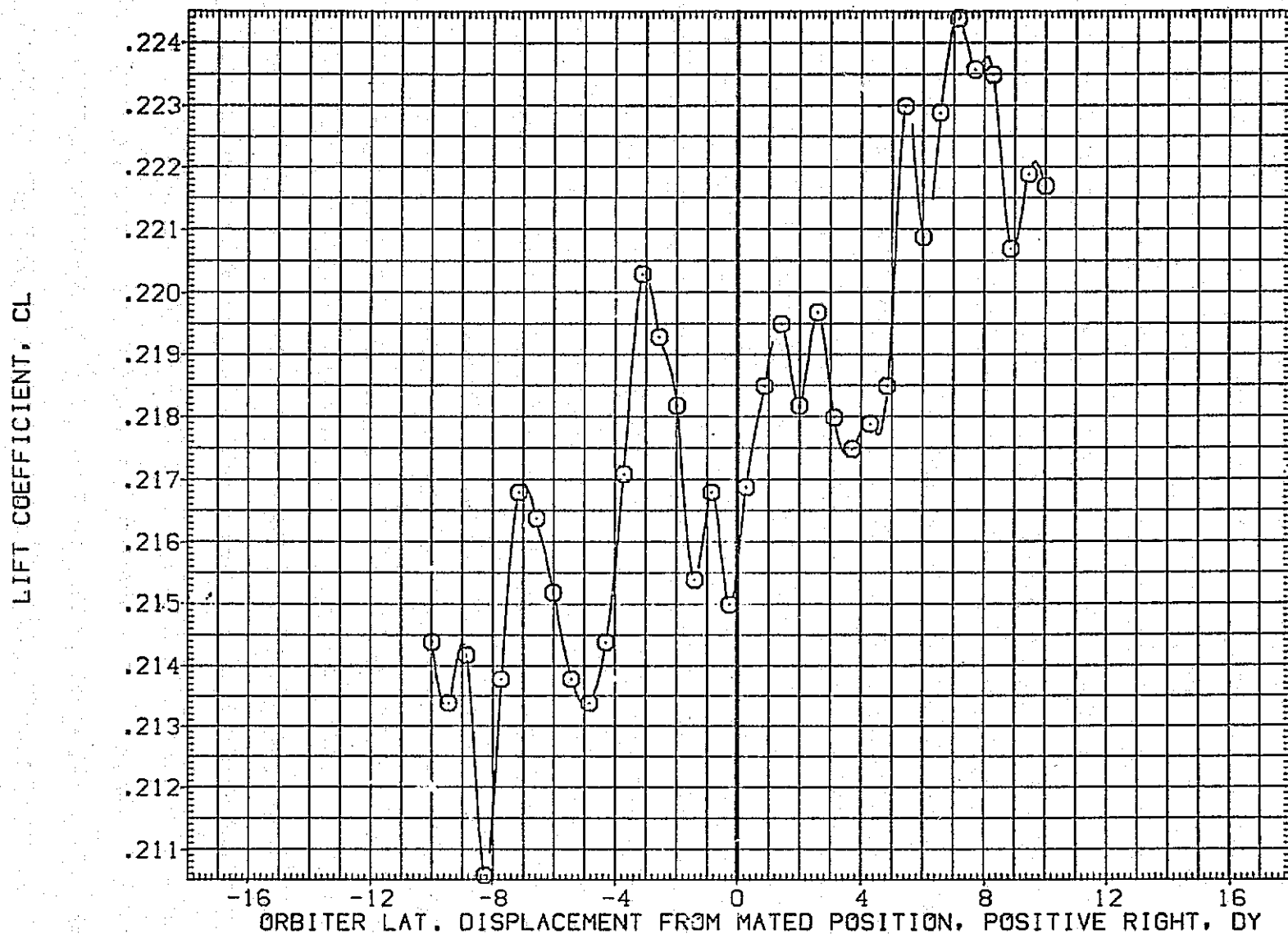


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

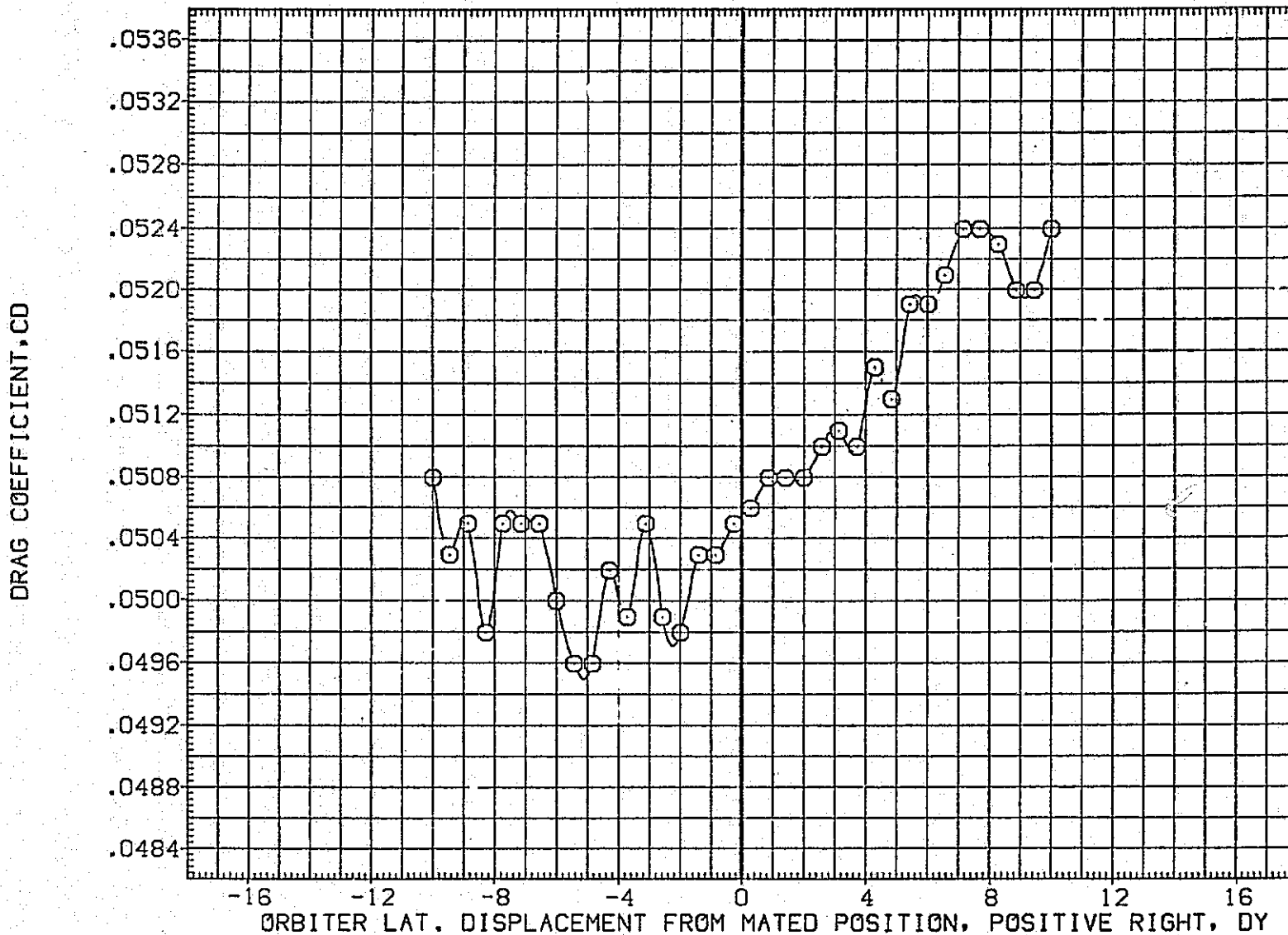


FIG.190 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE086

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE087)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

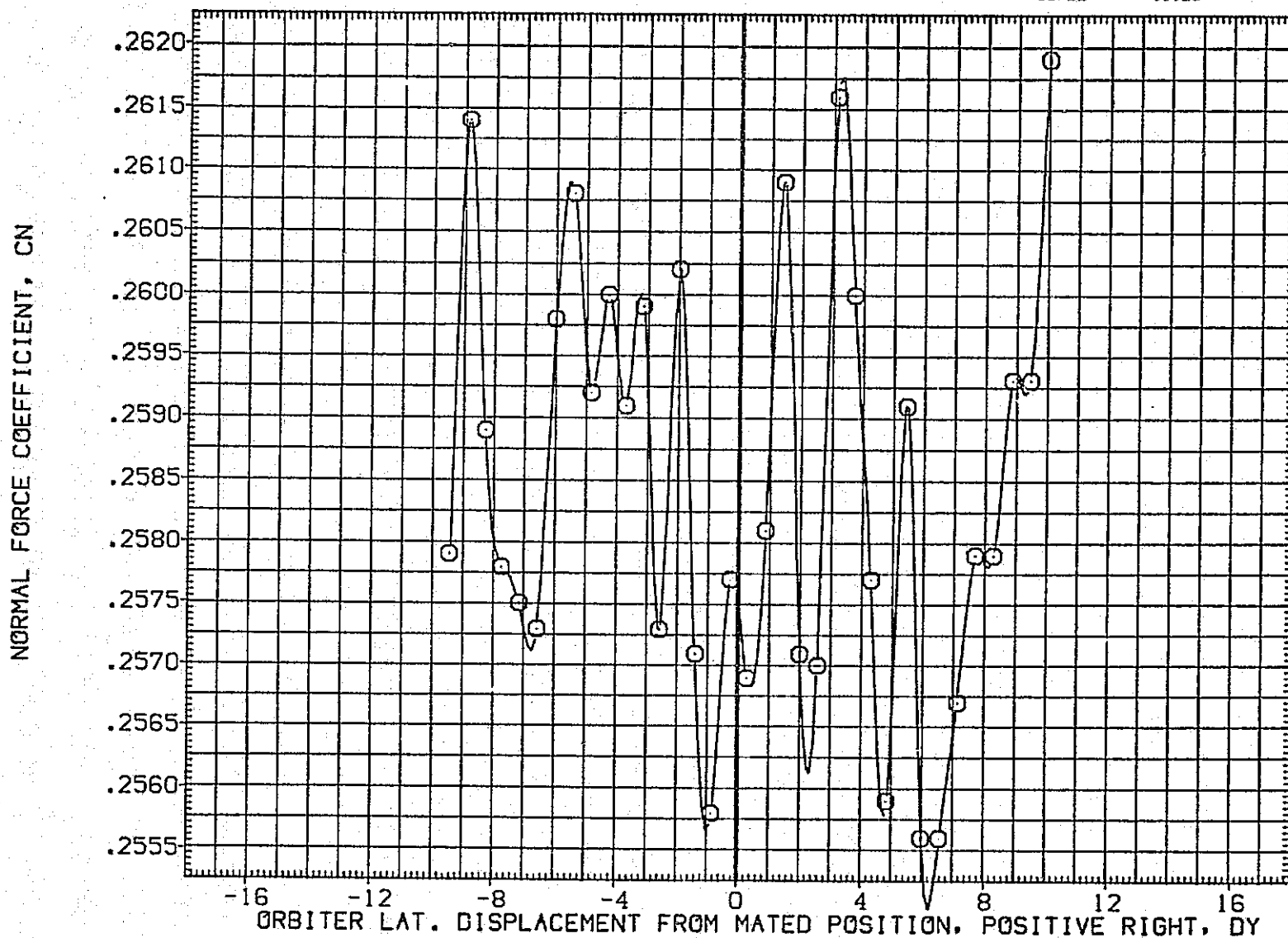


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

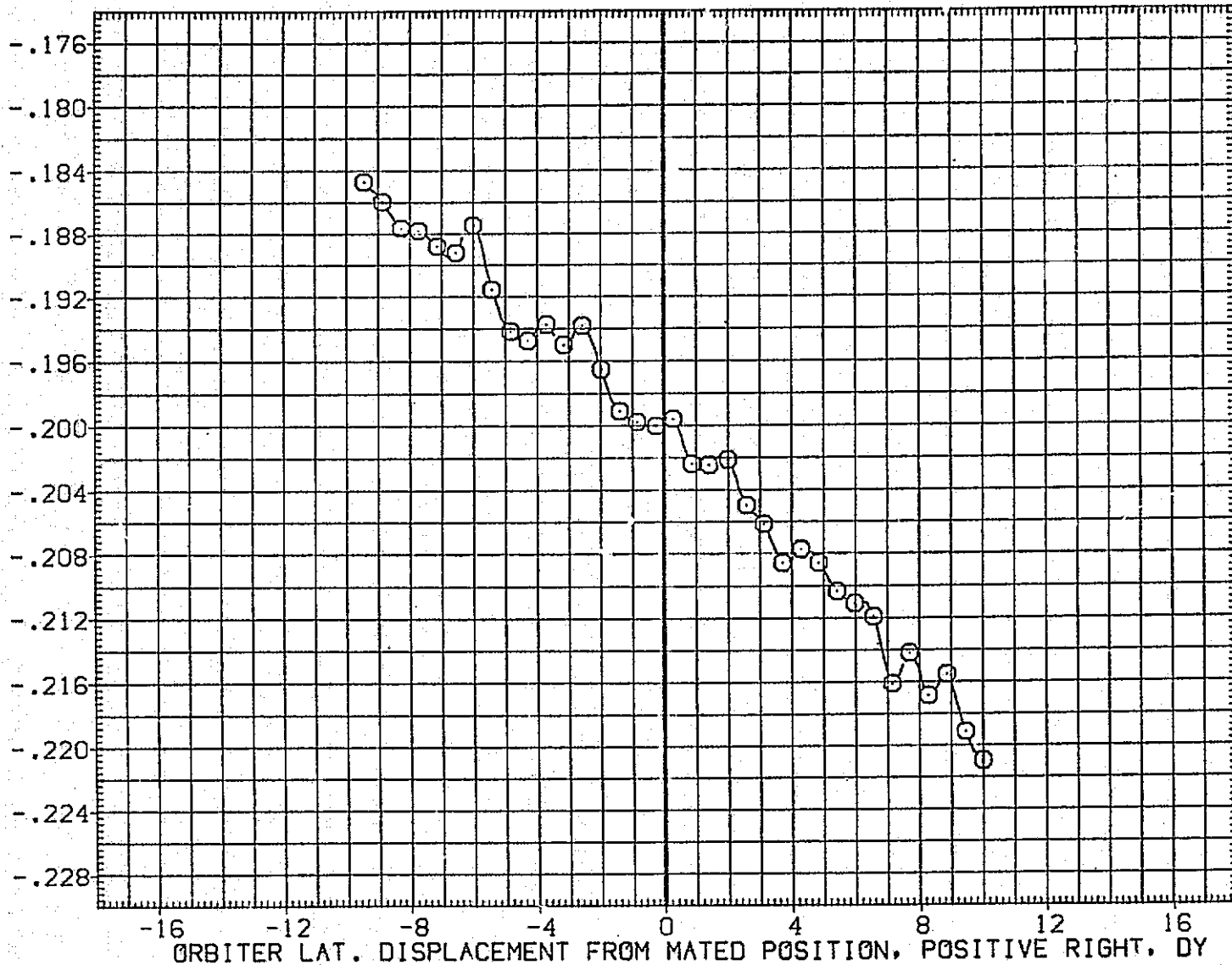


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE087)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

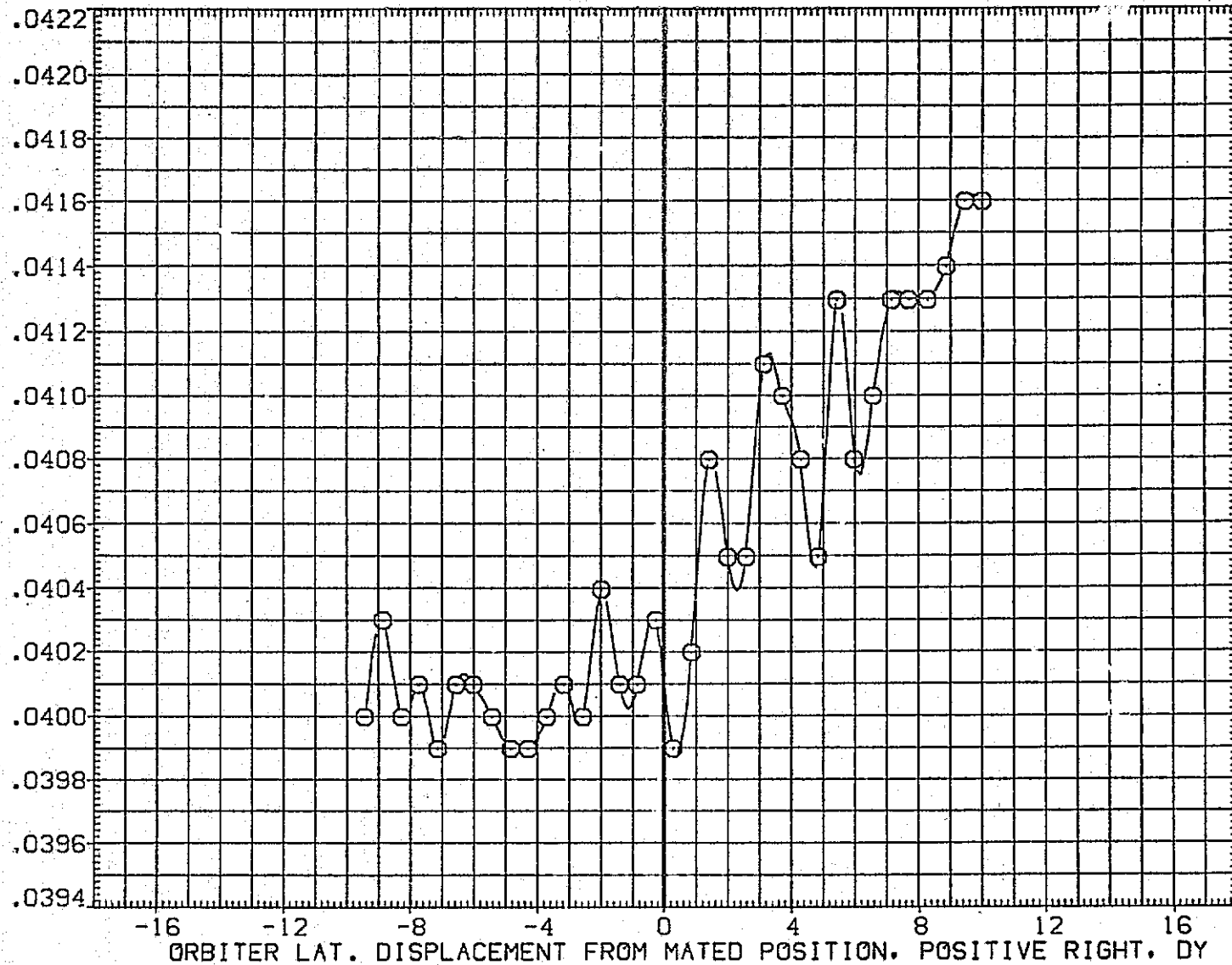


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

SYMBOL

○

MACH

.594

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

-5.000

STAB

5.000

ELEVON

5.000

BDFLAP

.000

DX

.000

DZ

15.000

IORB

6.000

BETA0

.000

RUDDER

.000

REFERENCE INFORMATION

SREF 5500.0000

SQ.FT.

LREF 327.7800

IN.

BREF 2348.0400

IN.

XMRP 1339.9000

IN. XC

YMRP .0000

IN. YC

ZMRP 190.7500

IN. ZC

SCALE .0125

SIDE FORCE COEFFICIENT, CY

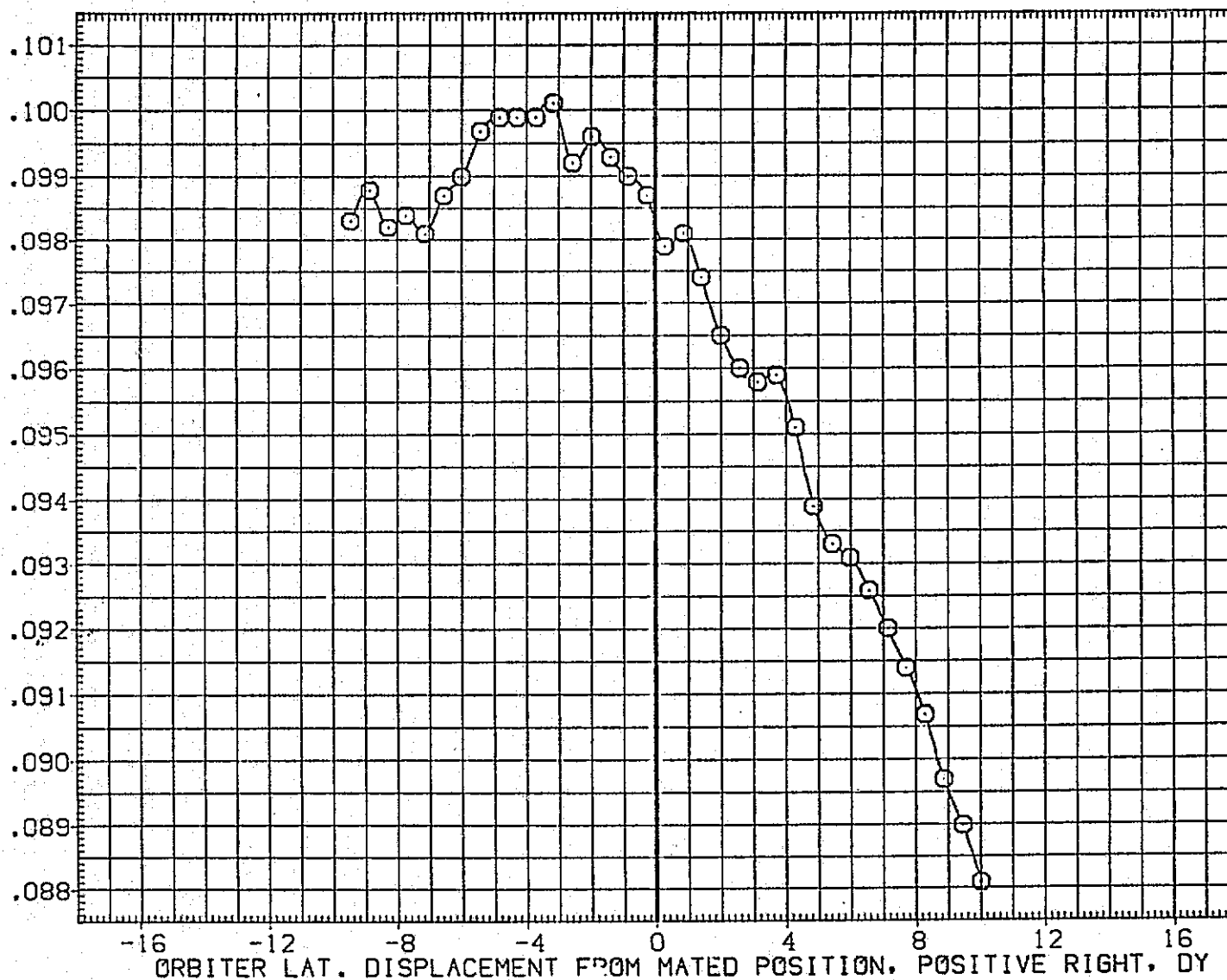


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE087)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

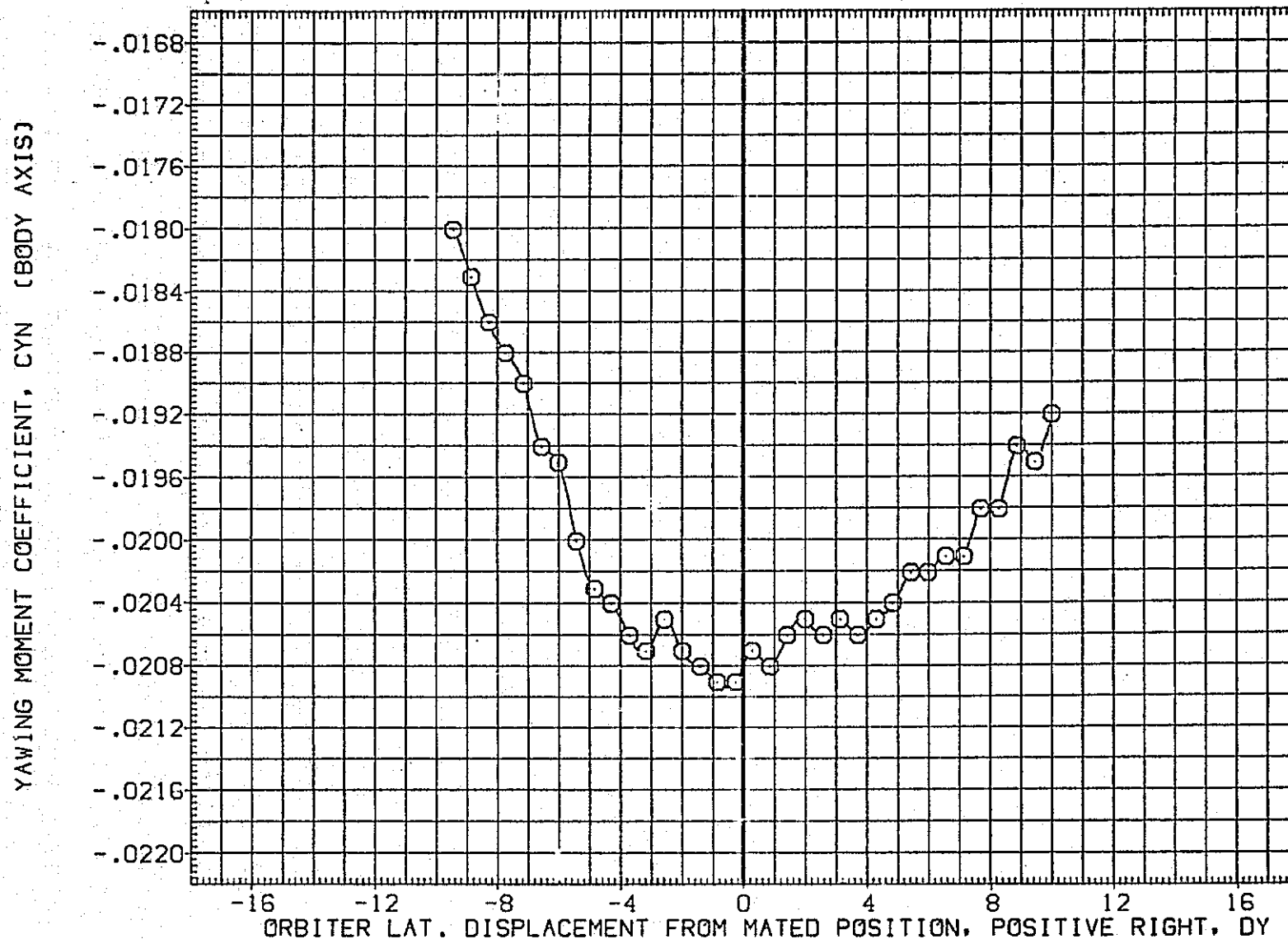


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7300	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

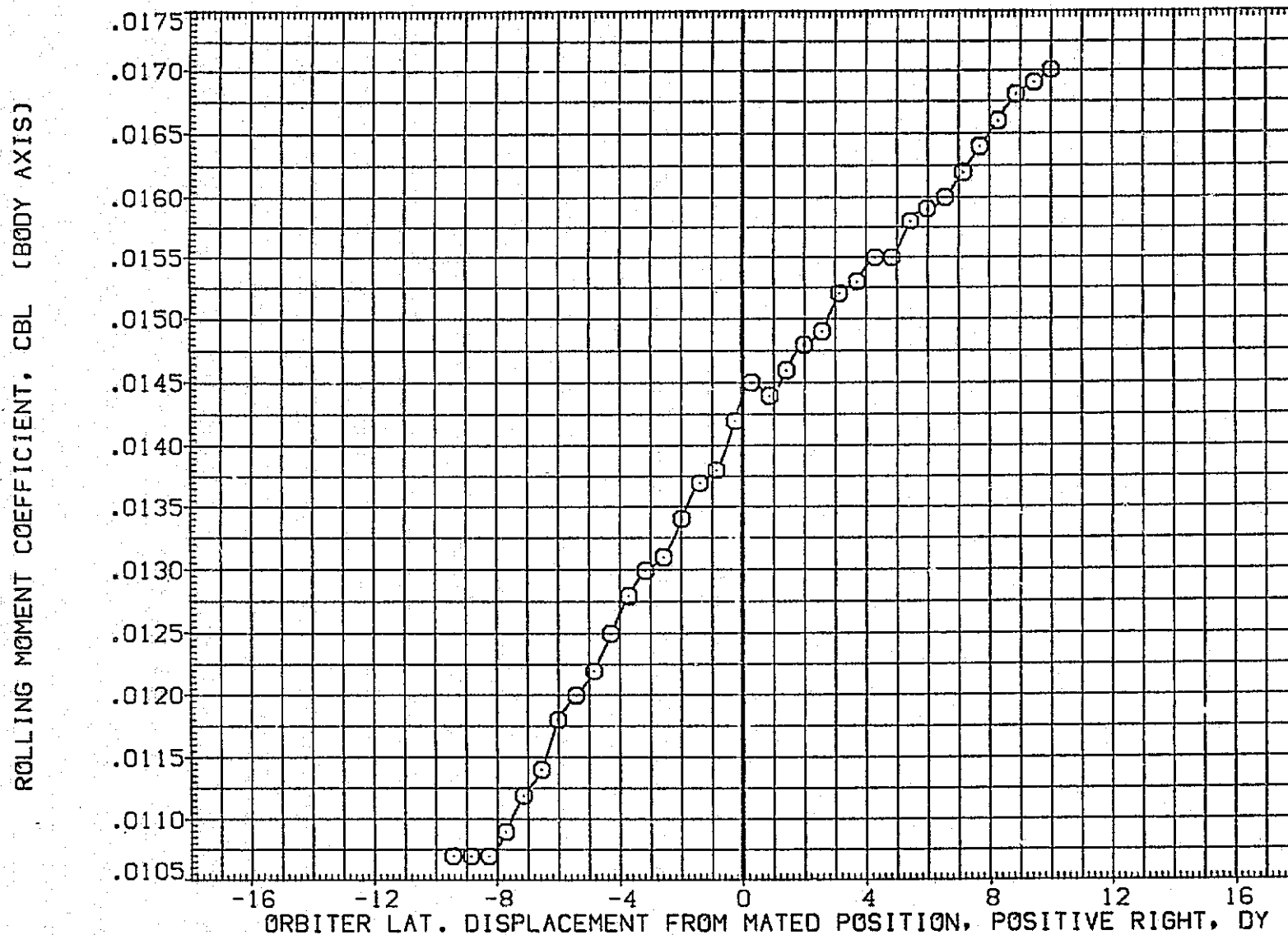


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE087)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

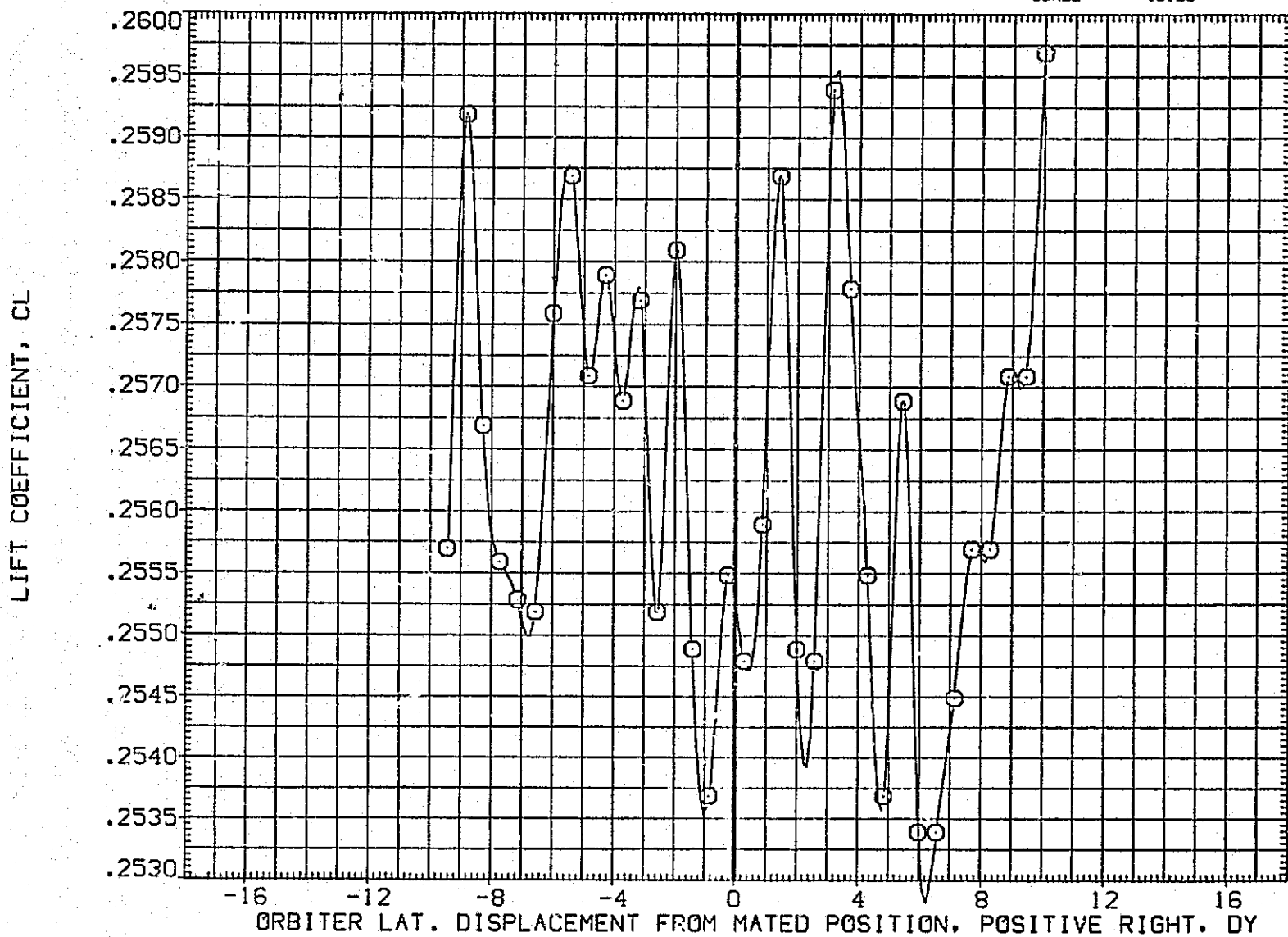


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE087)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	550.0000	SO.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

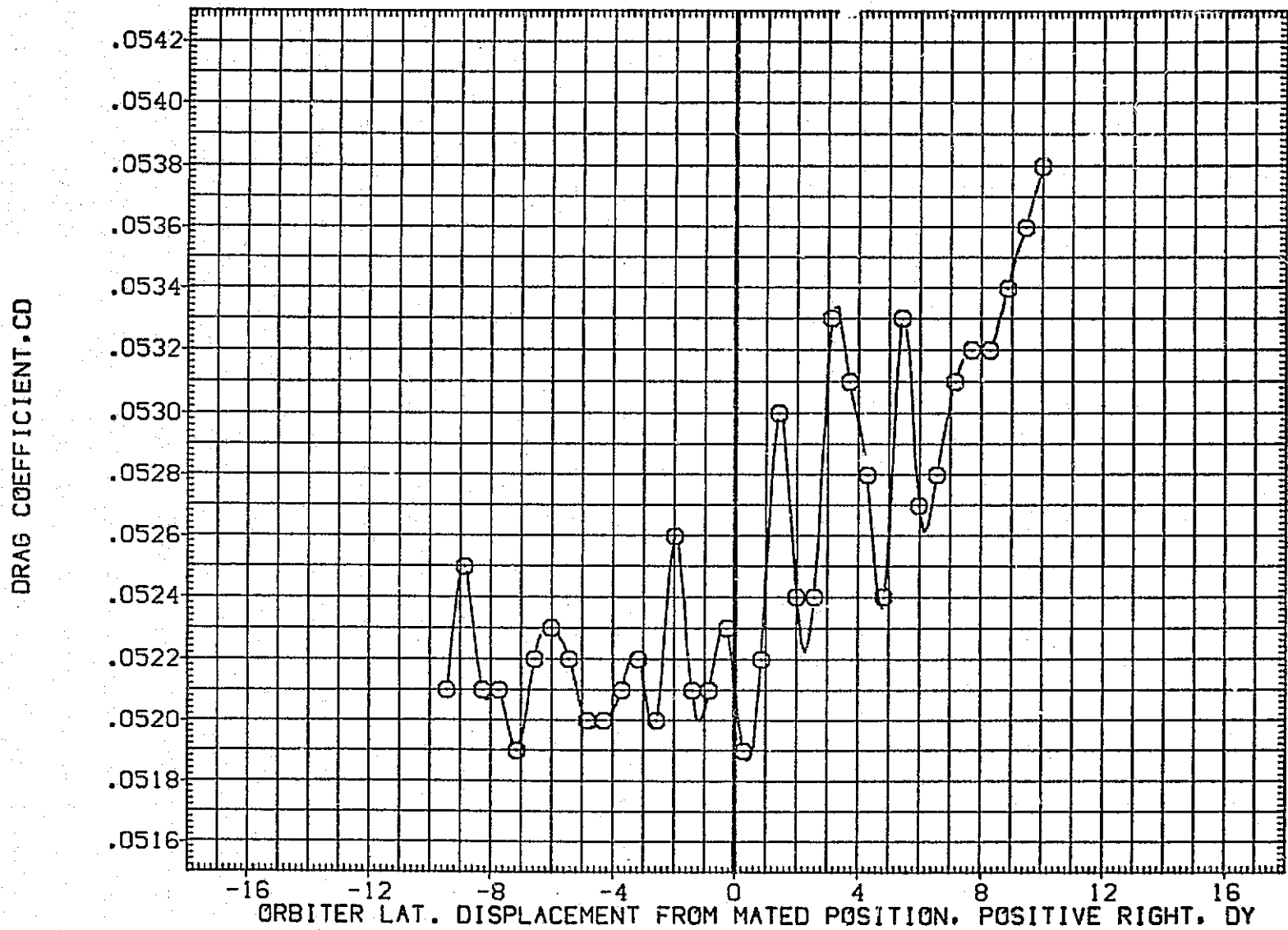


FIG.191 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE087

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE088)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

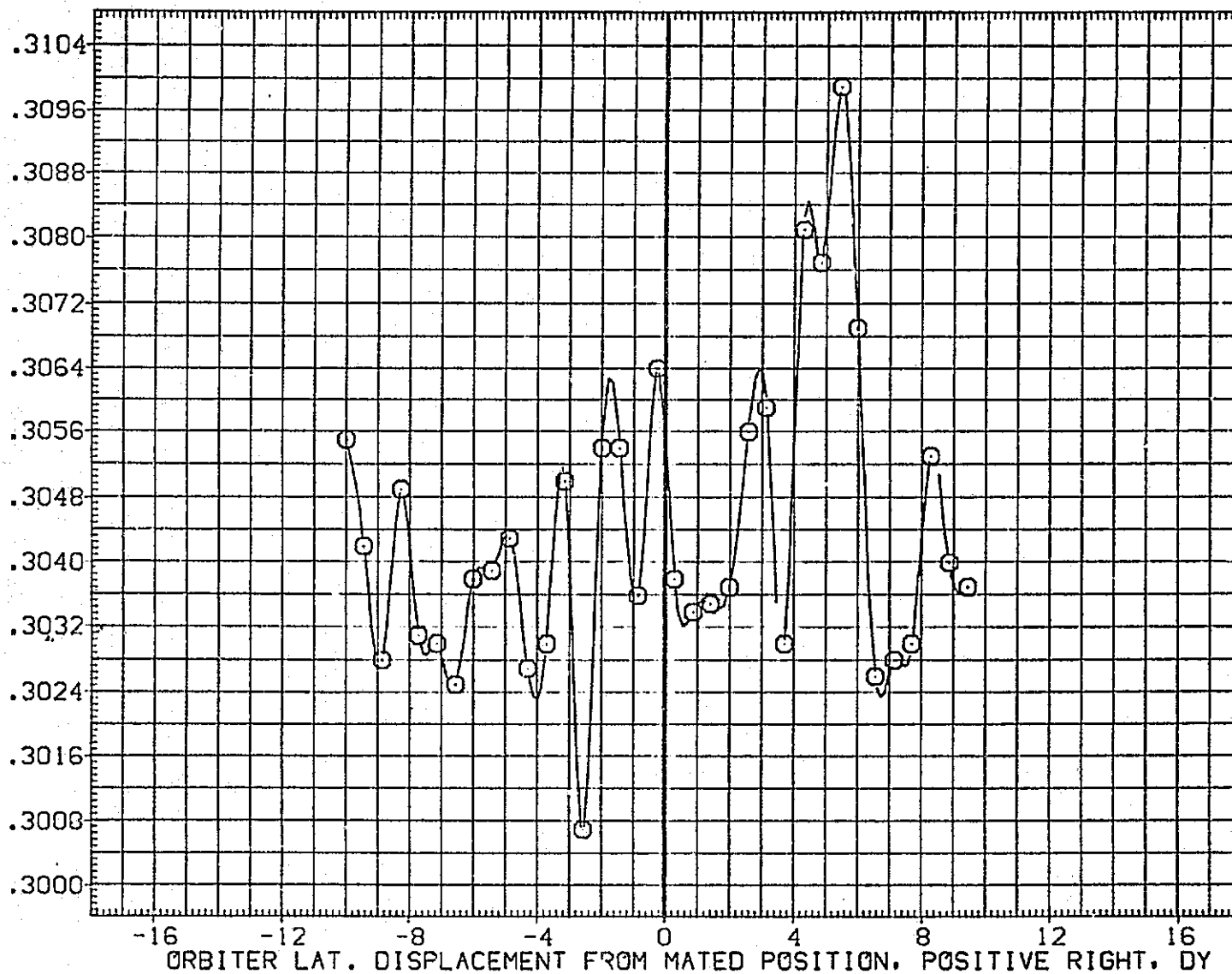


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7000	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

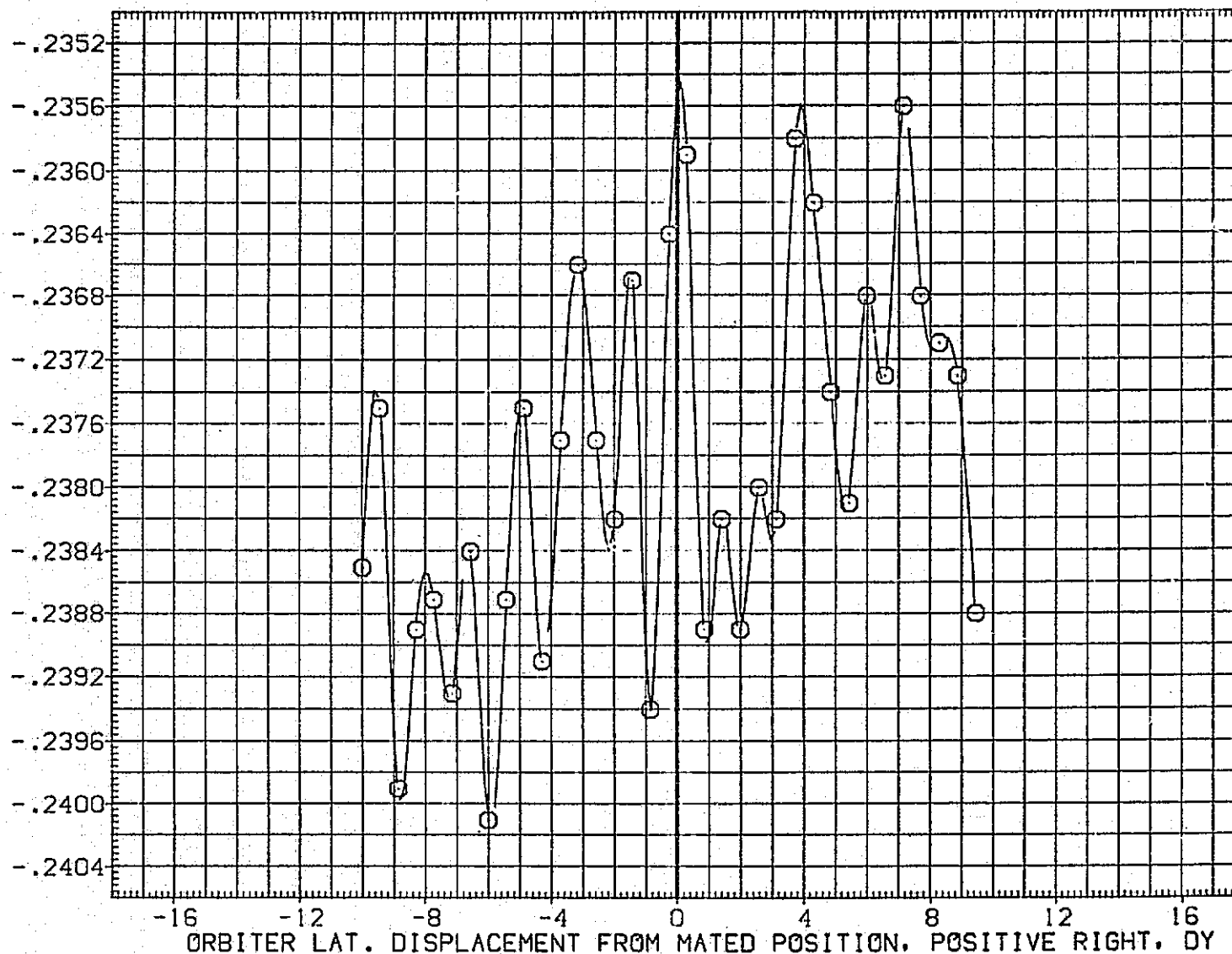


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE088)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BOFLAP	.000	DX	.000	BREF	2348.0400	IN.
		OZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

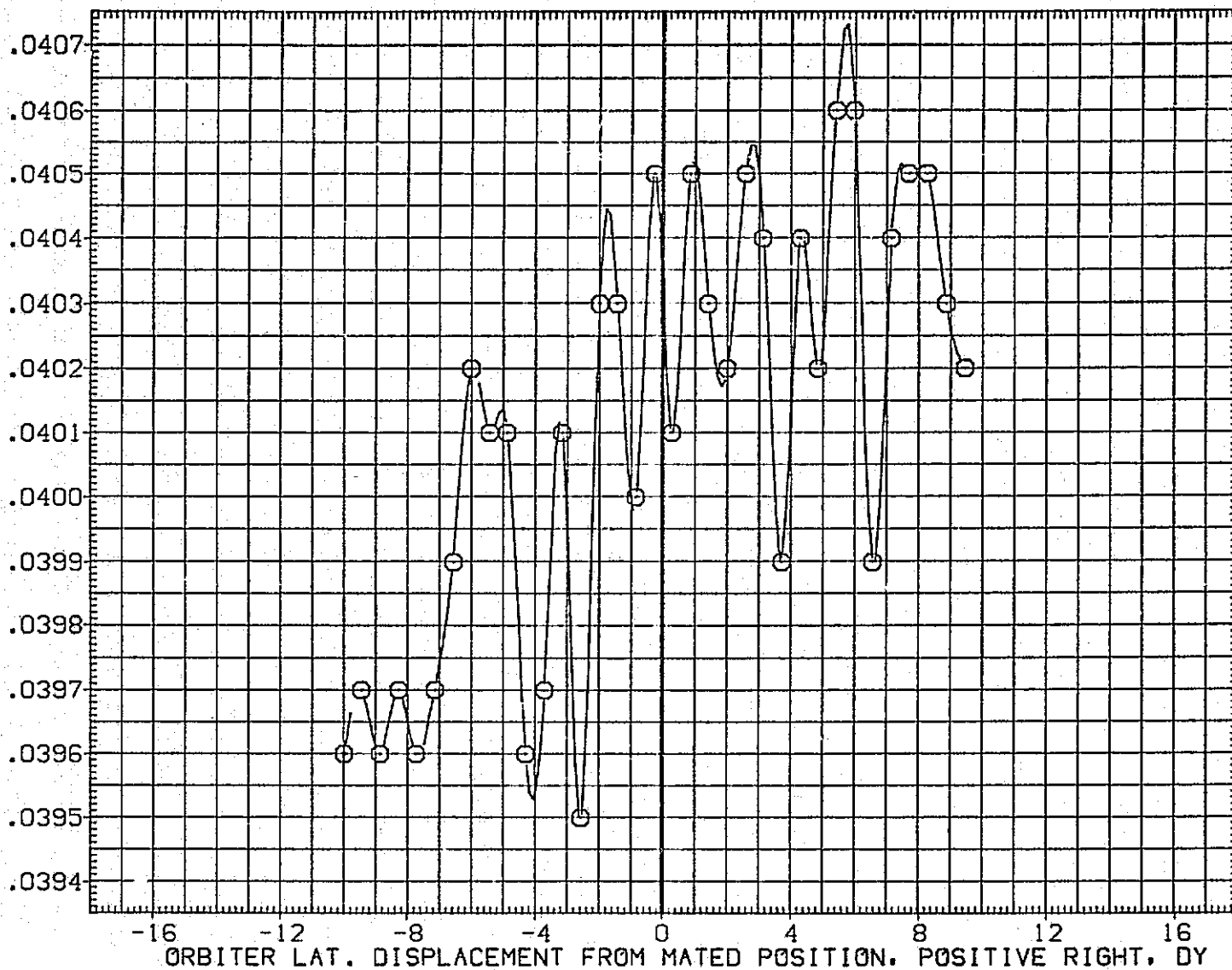


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

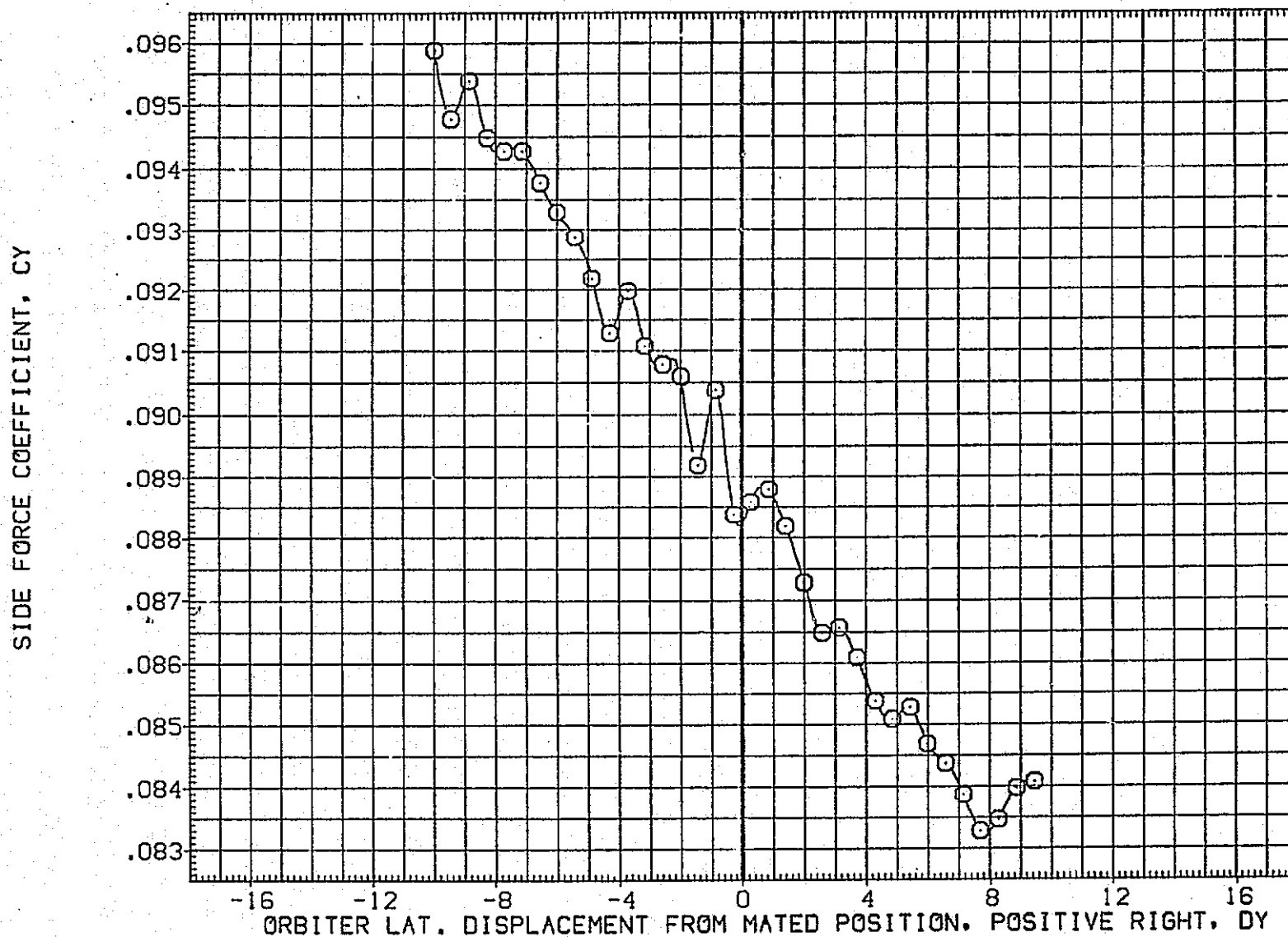


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE088)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		OZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

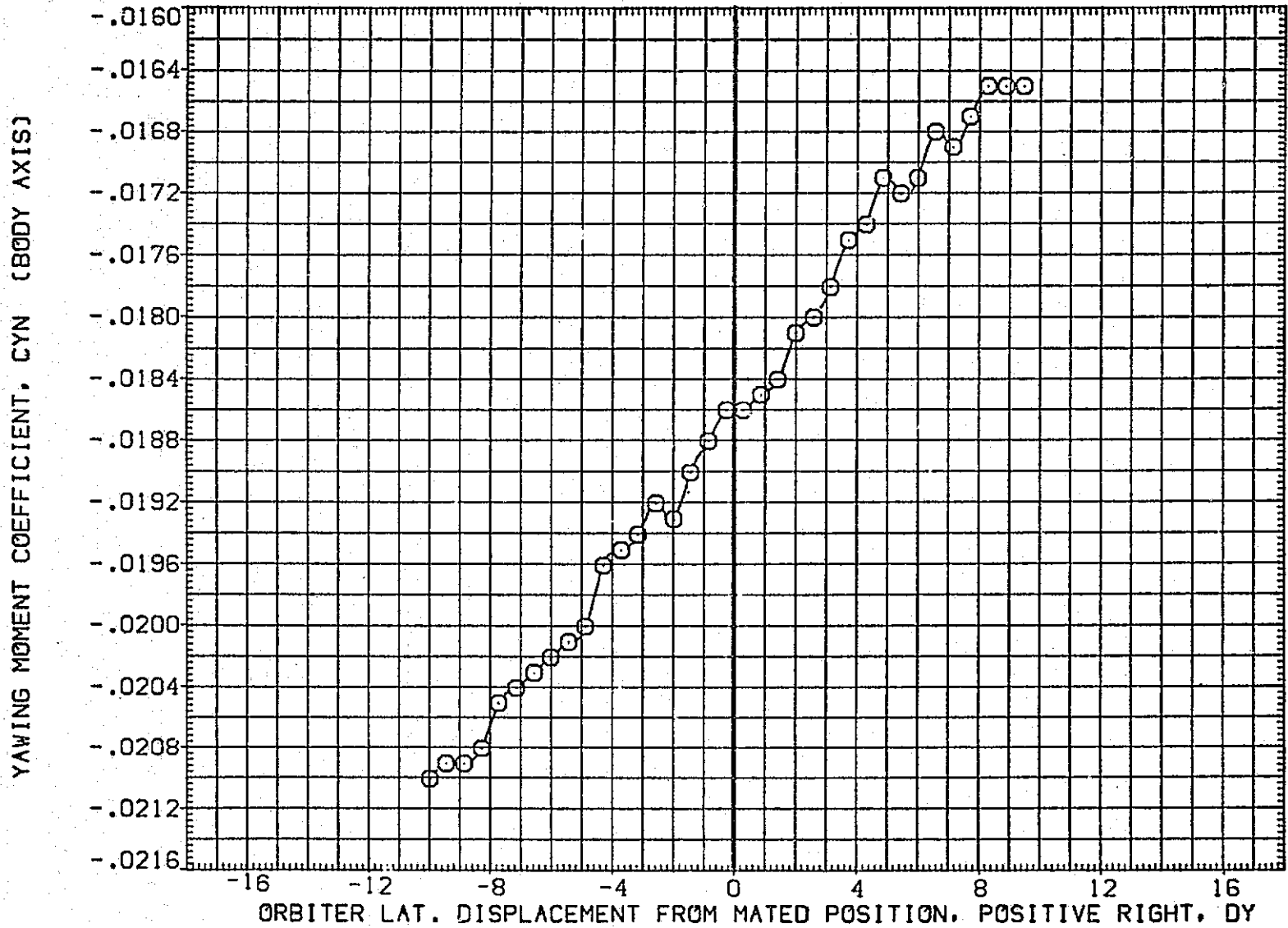


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	CG.Ft.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

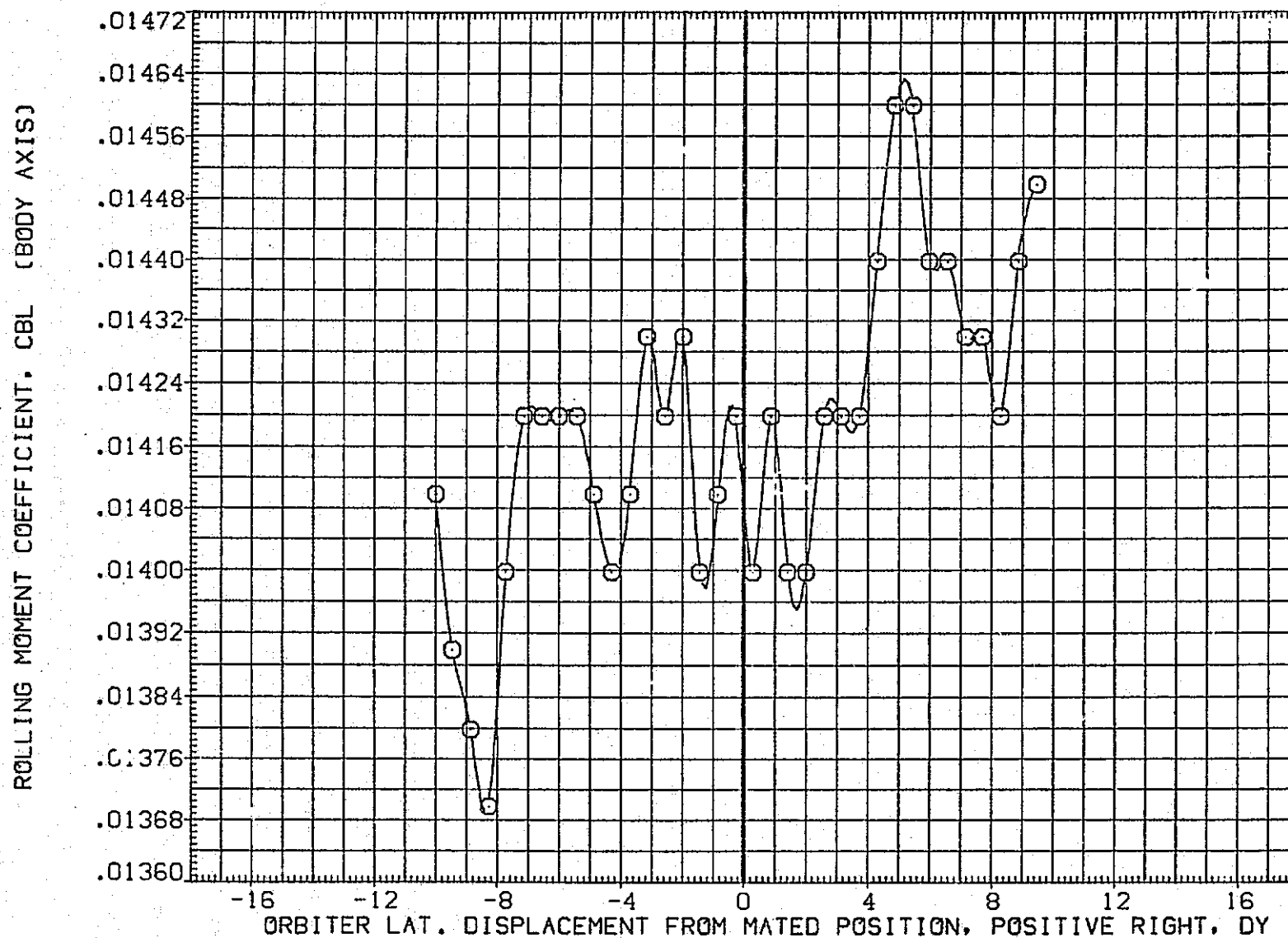


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE088)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

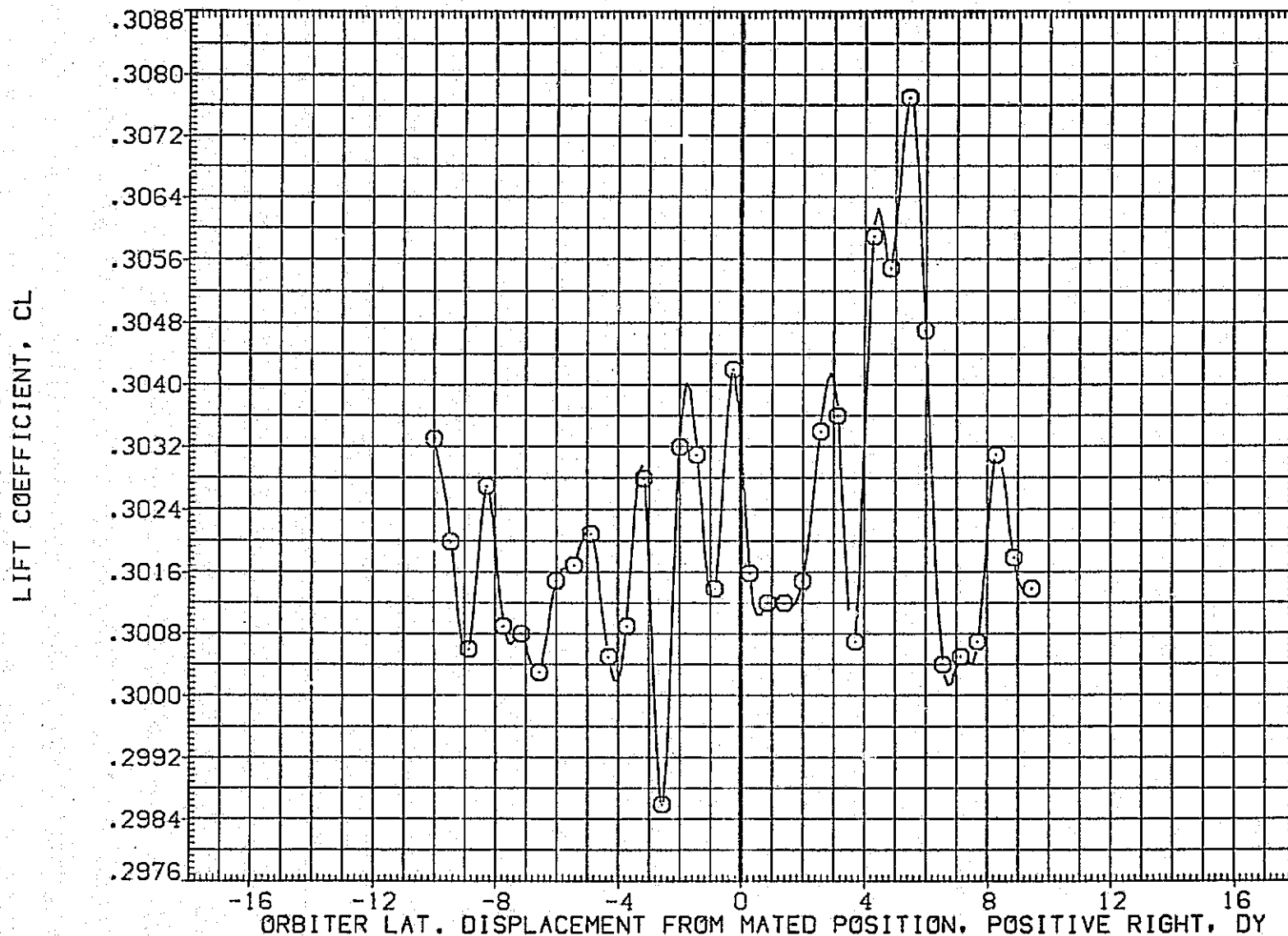


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	LREF	BREF
○	.594	2.000	-5.000	5.000	.000	5500.0000	327.7800	2348.0400
		BDFLAP	DX	.000	.000	1339.9000		
		DZ	IORB	6.000	.000			
		BETA0	RUDDER	.000	.000	ZMRP	190.7500	
						SCALE	.0125	

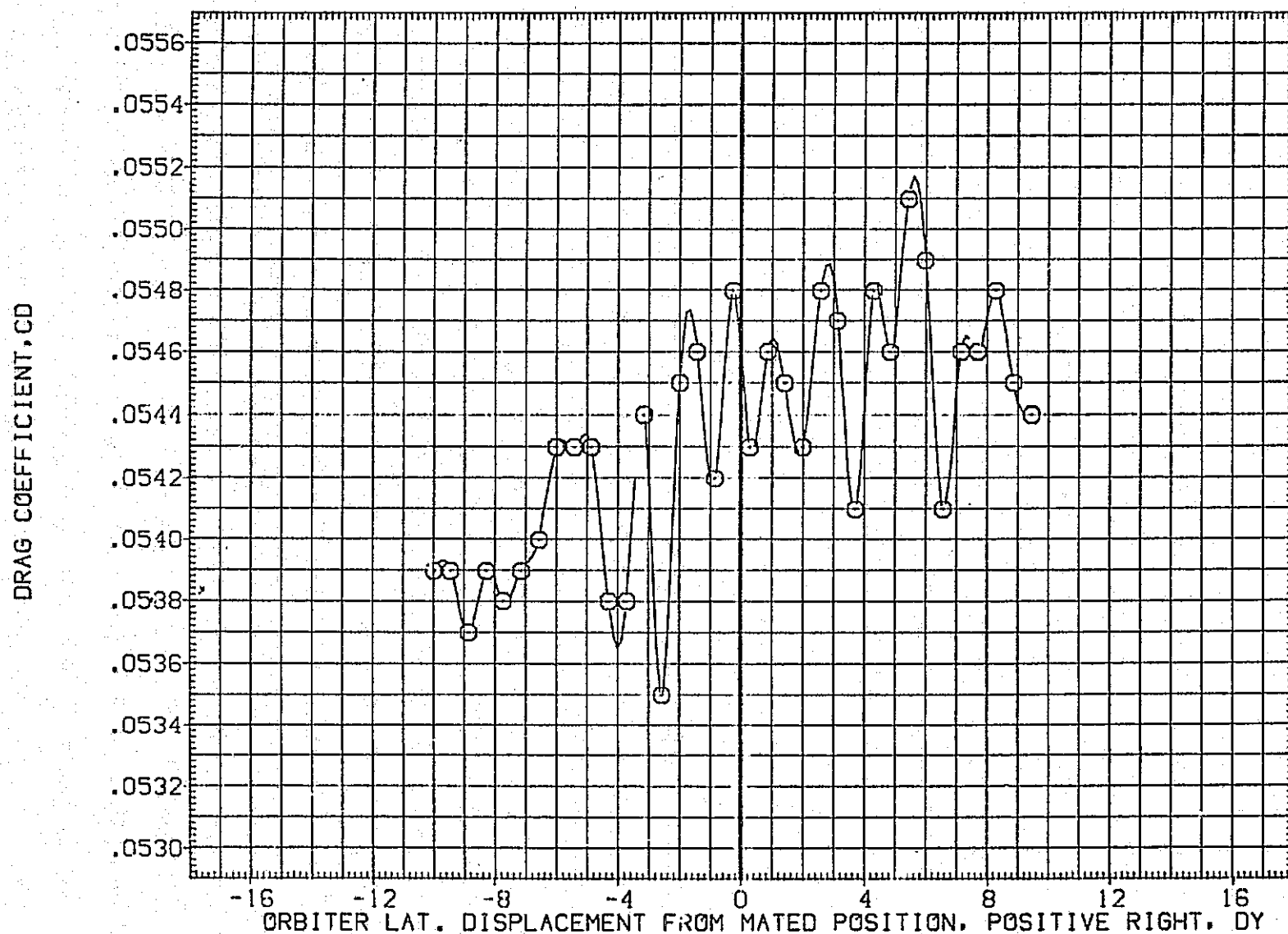


FIG.192 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, RFE088

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE089)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

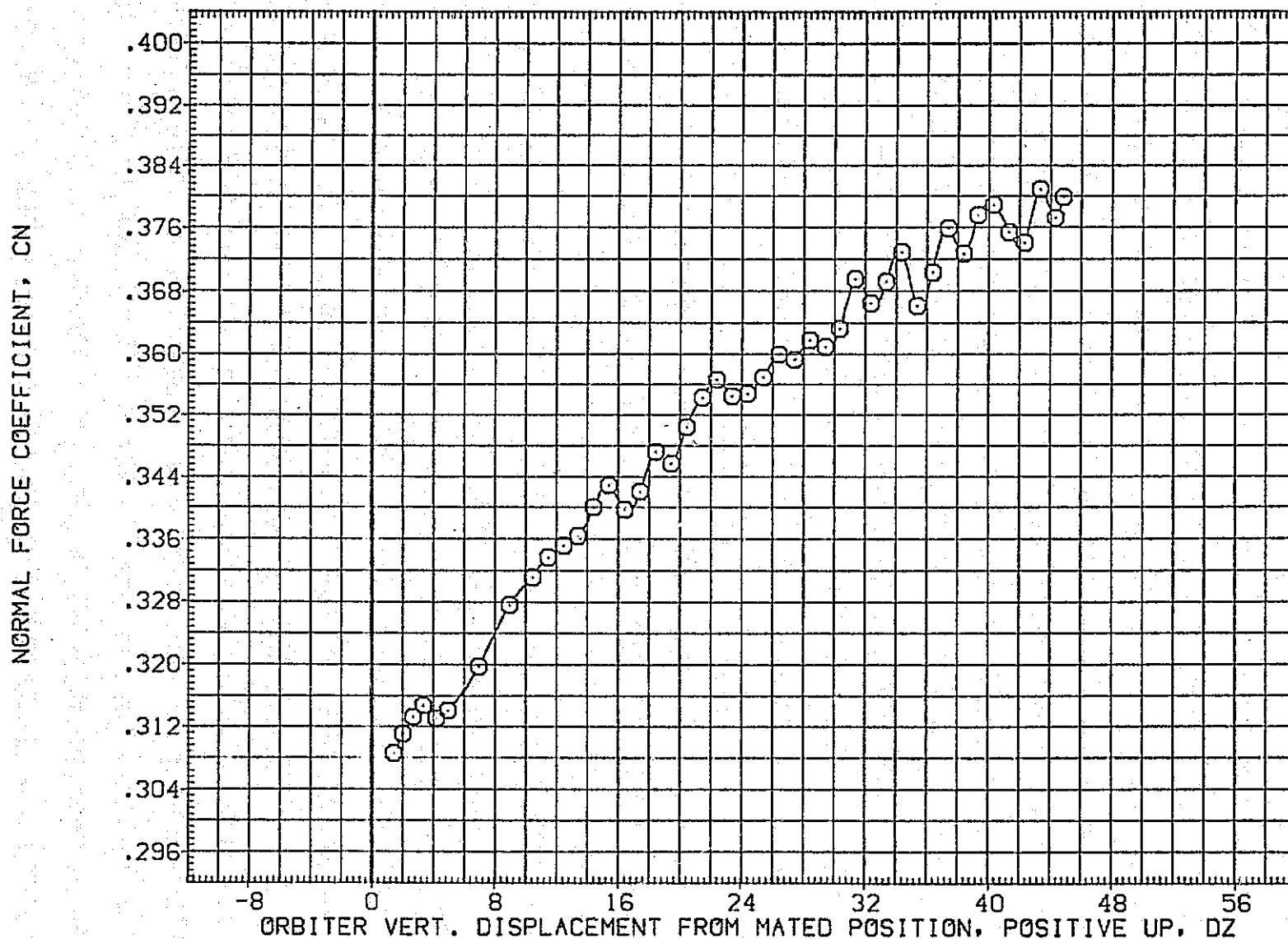


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC 4.000	BETAC .000		
		STAB 5.000	ELEVON 5.000		
		BDFLAP .000	DX .000		
		DY .000	IORB 4.000		
		BETA0 .000	RUDDER .000		

REFERENCE INFORMATION		
SREF	5500.0000	SD, FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

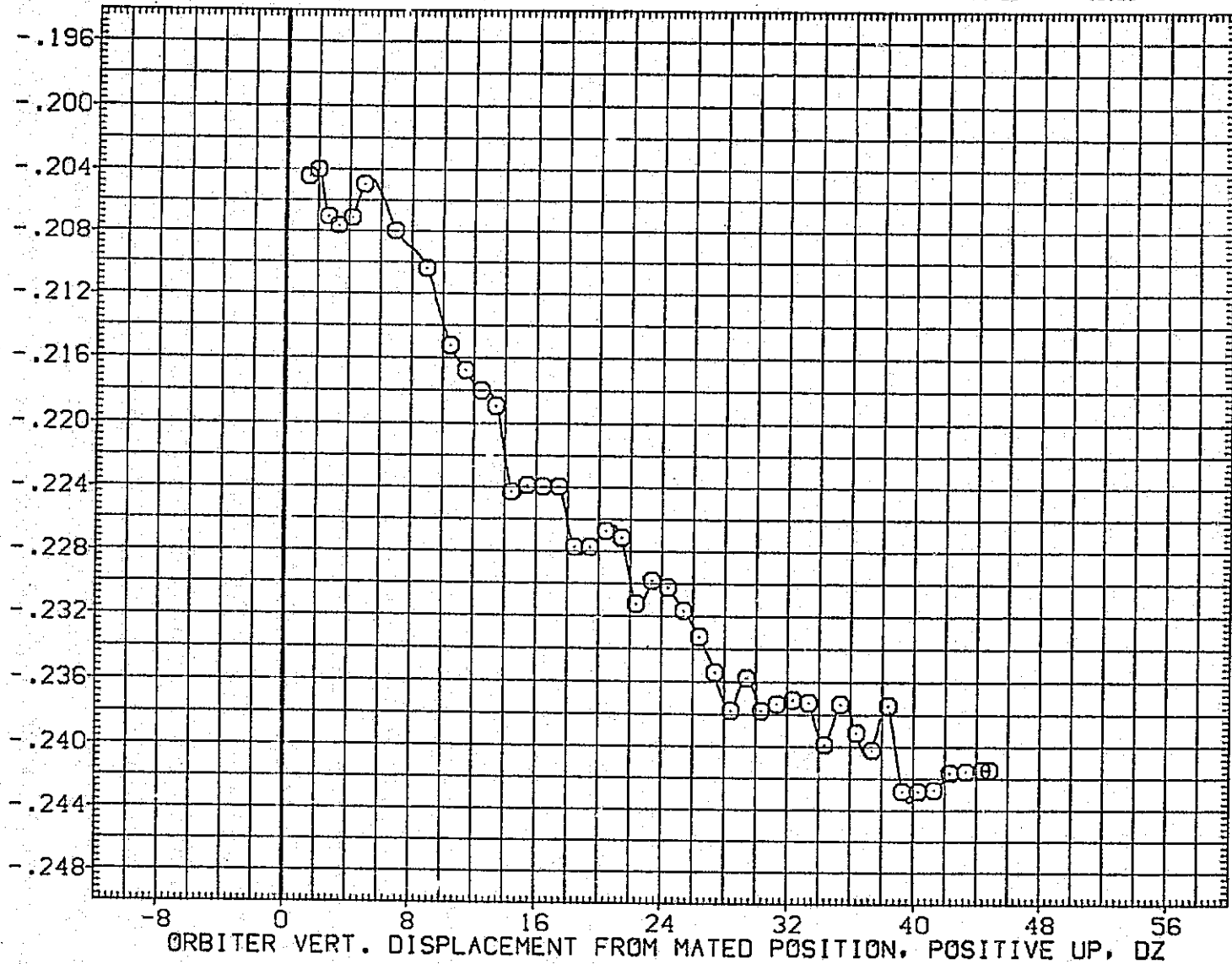


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE089)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

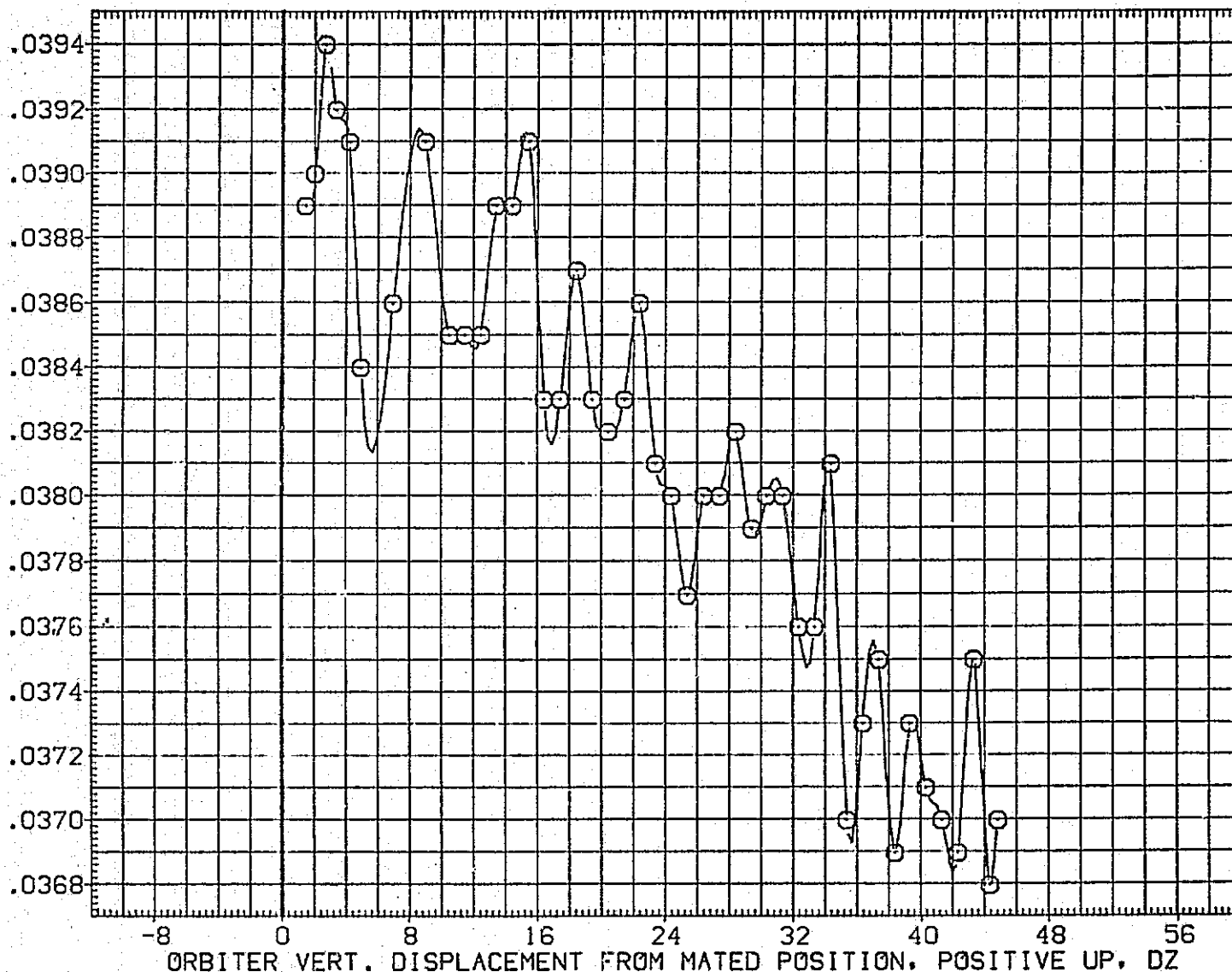


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

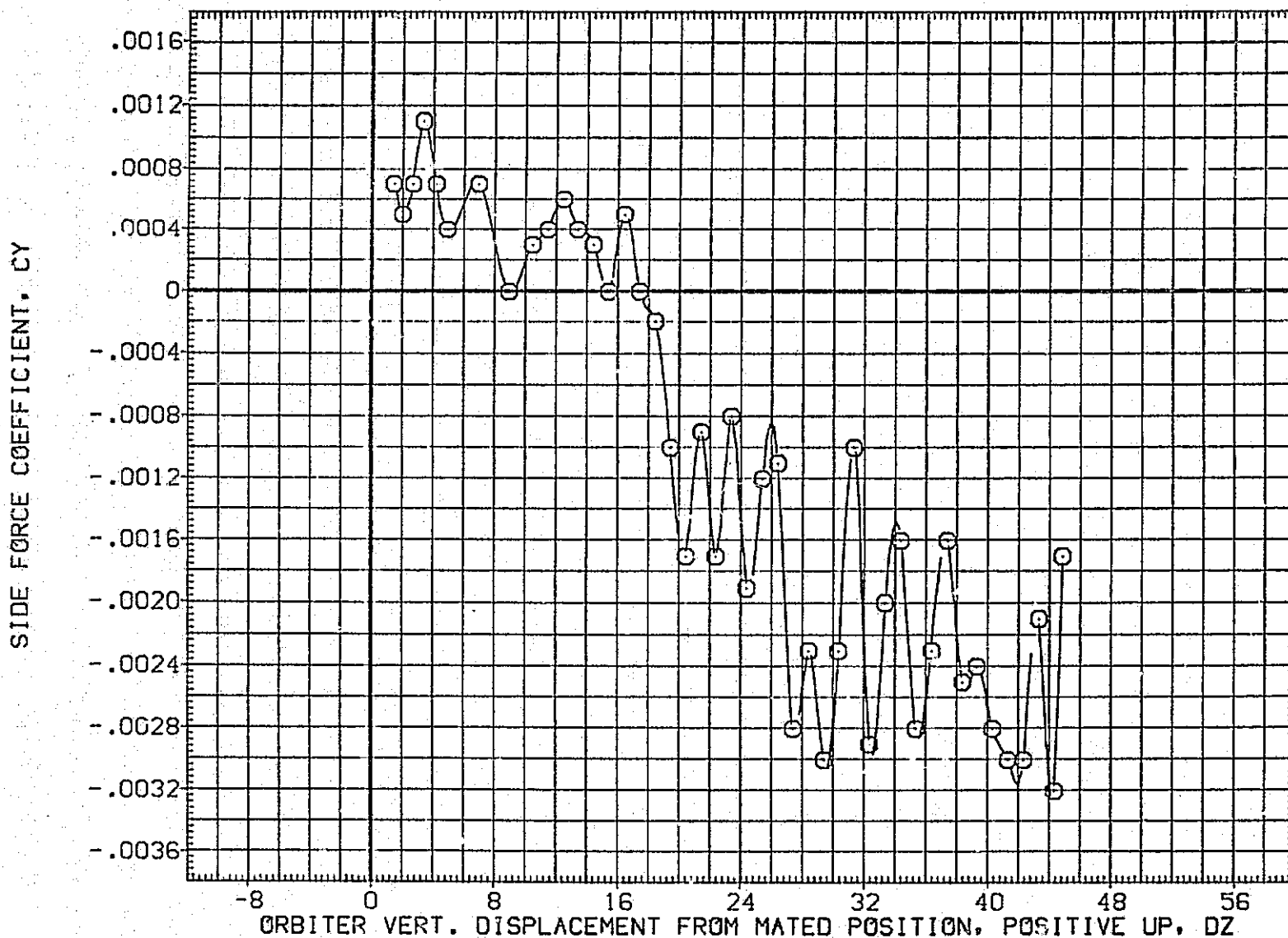


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE089)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

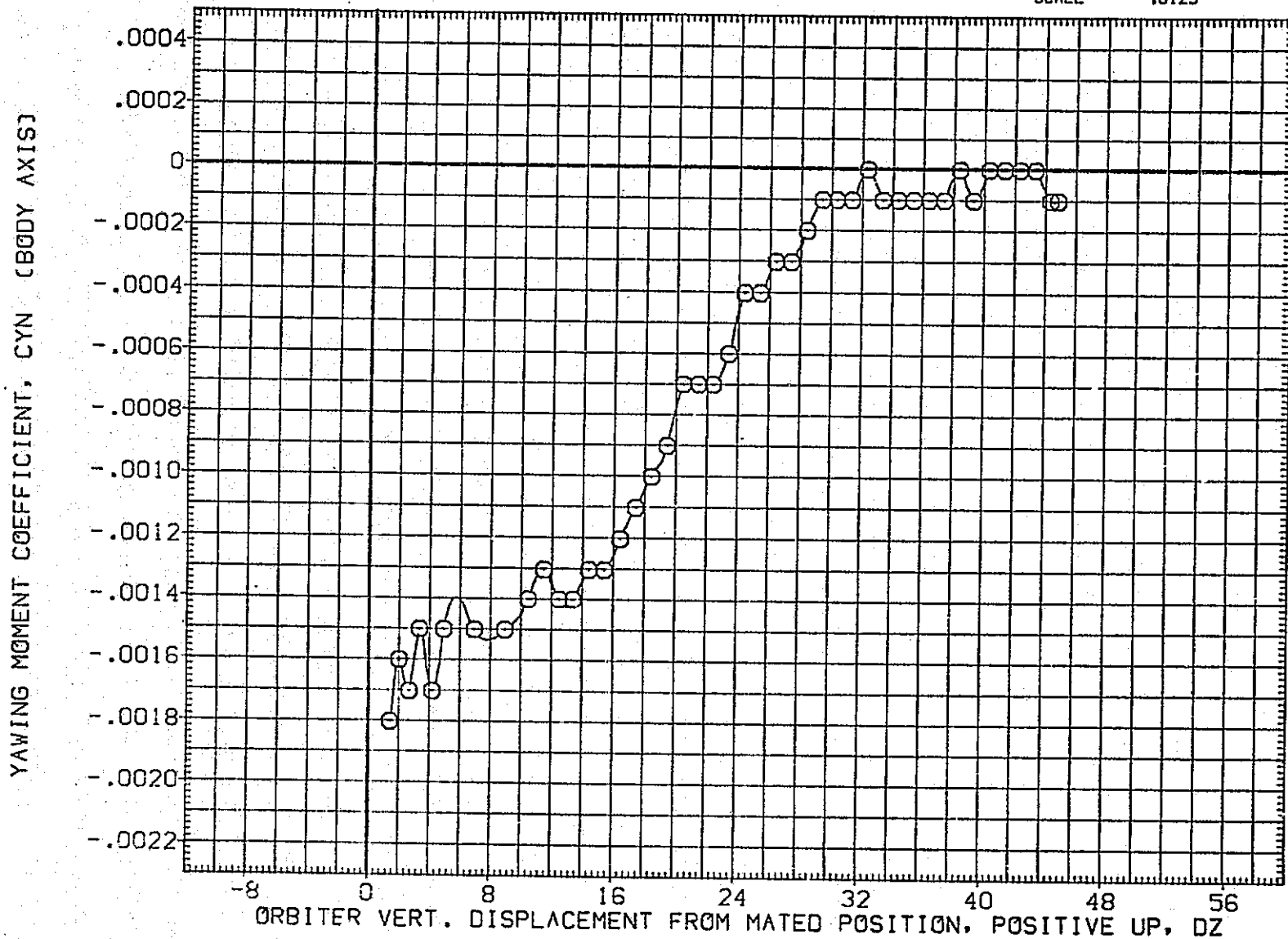


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

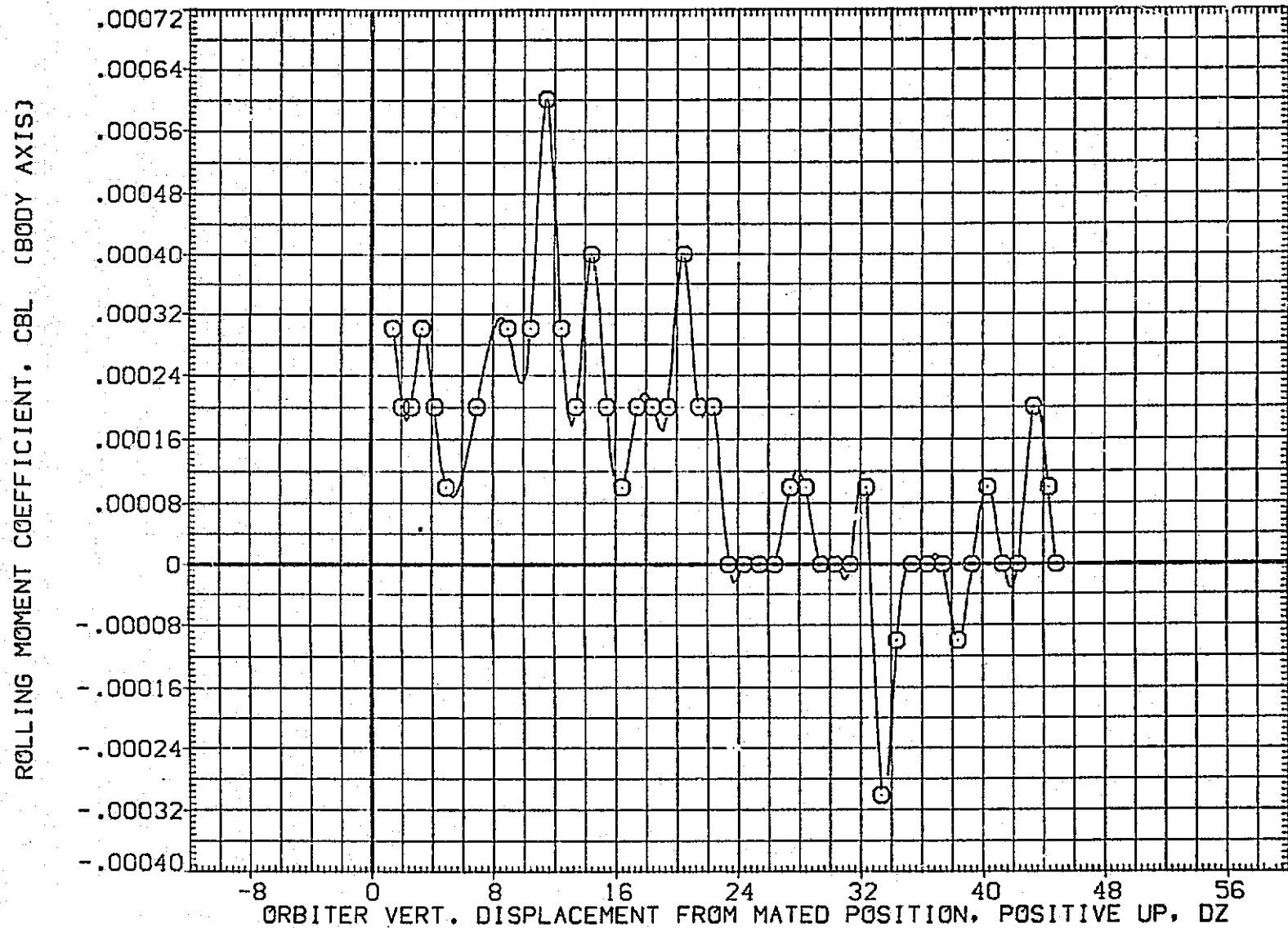


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE089)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	4.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

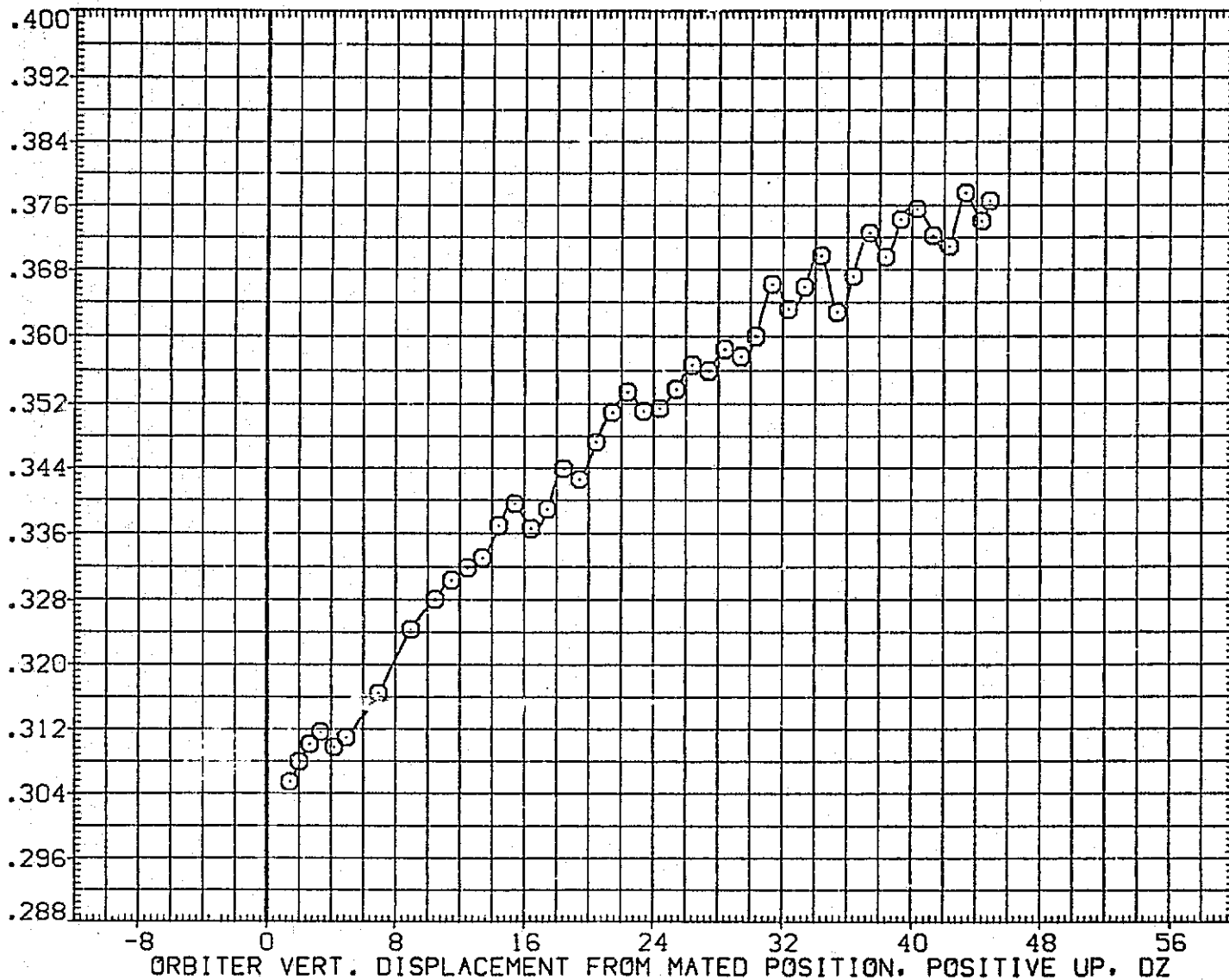


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	3500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

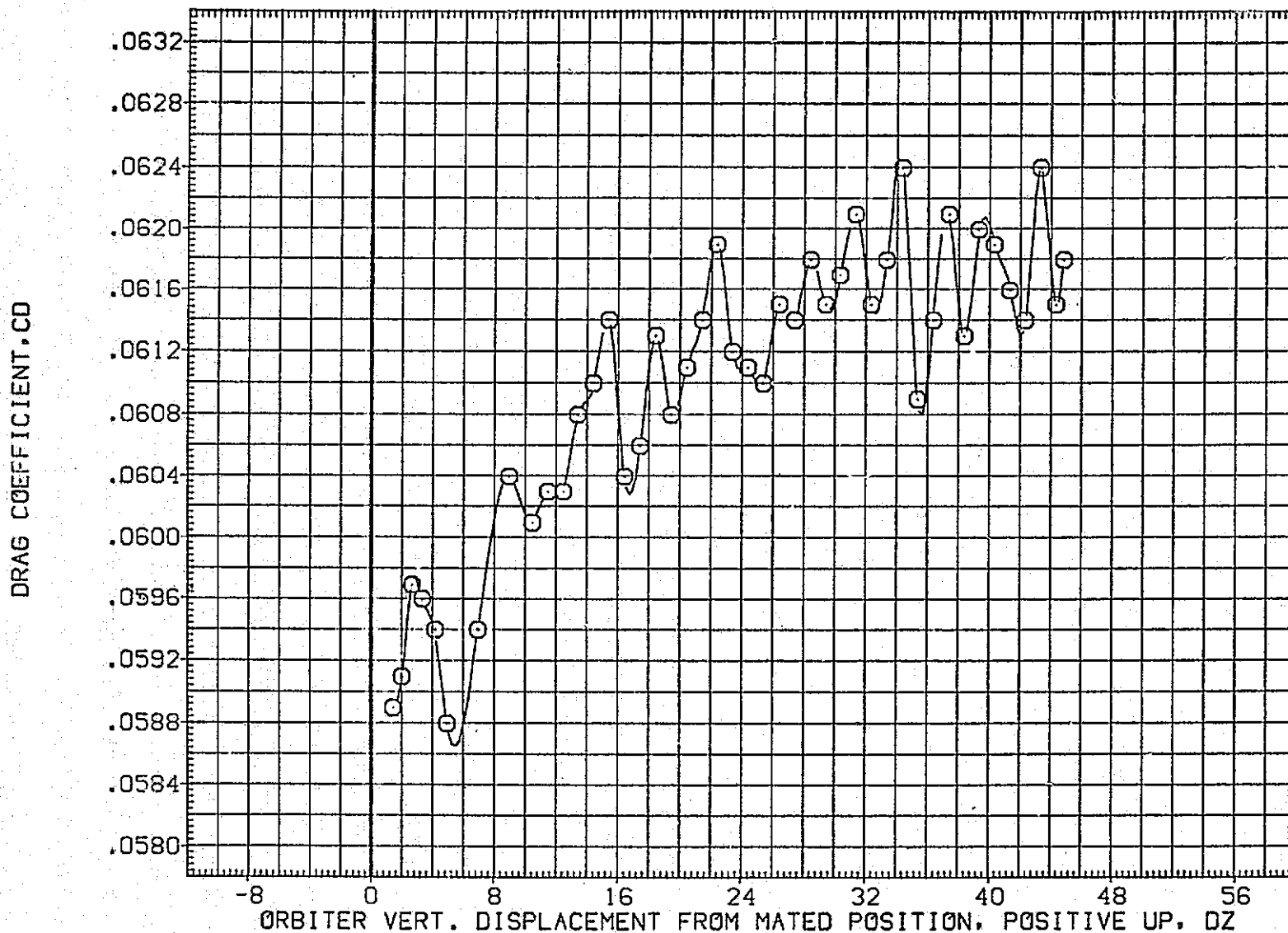


FIG.193 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE089

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE090)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.598	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

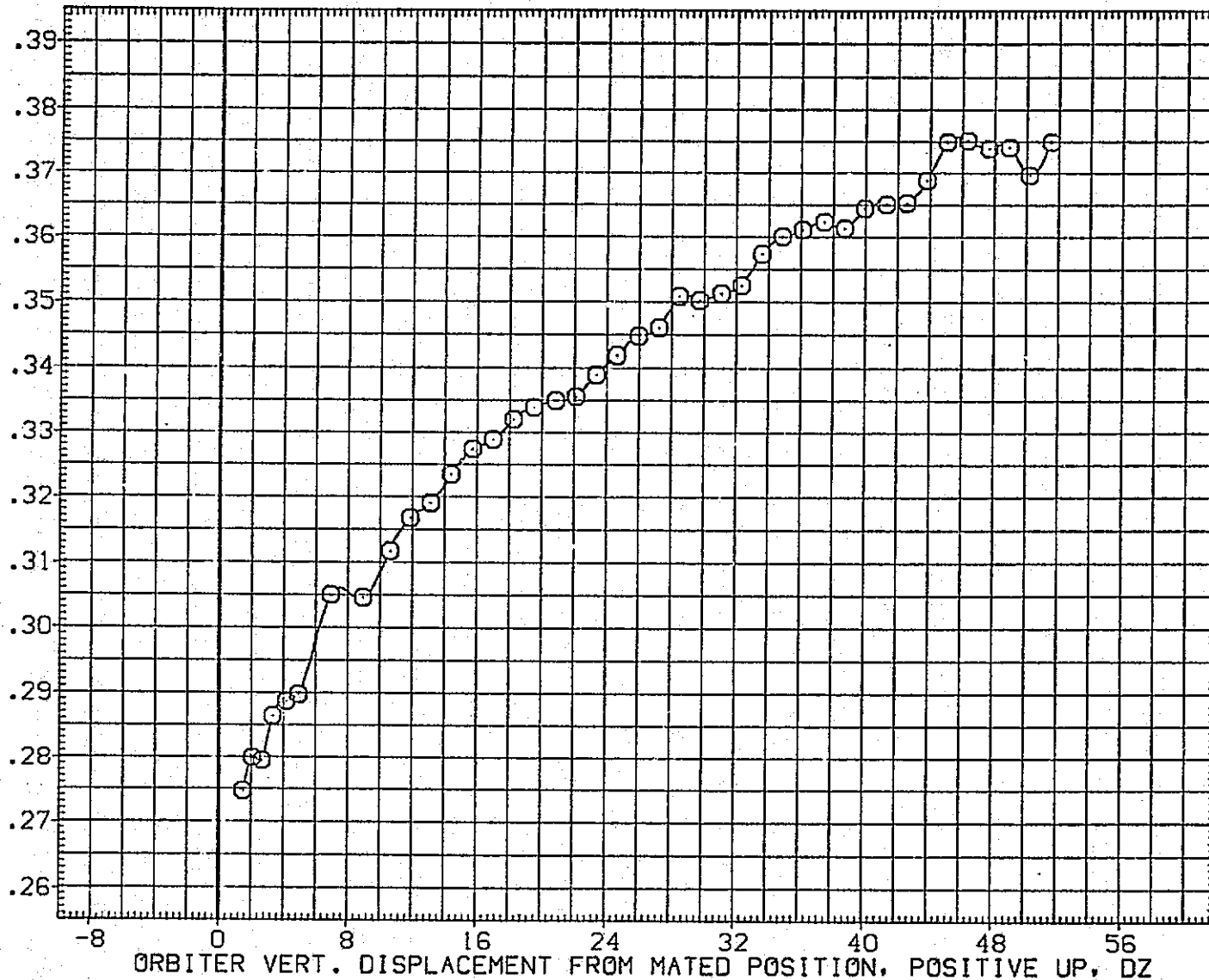


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2349.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

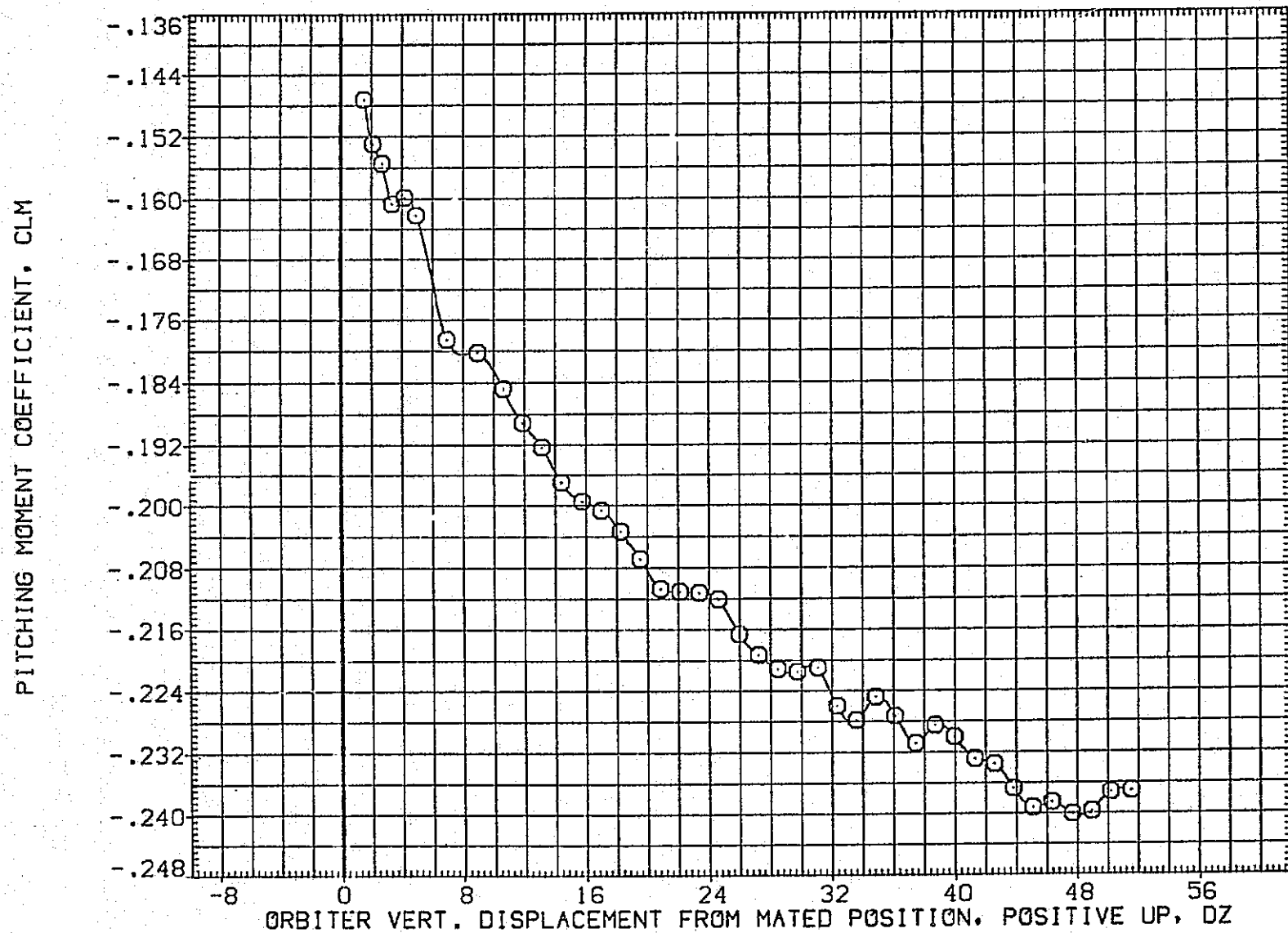


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE090)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

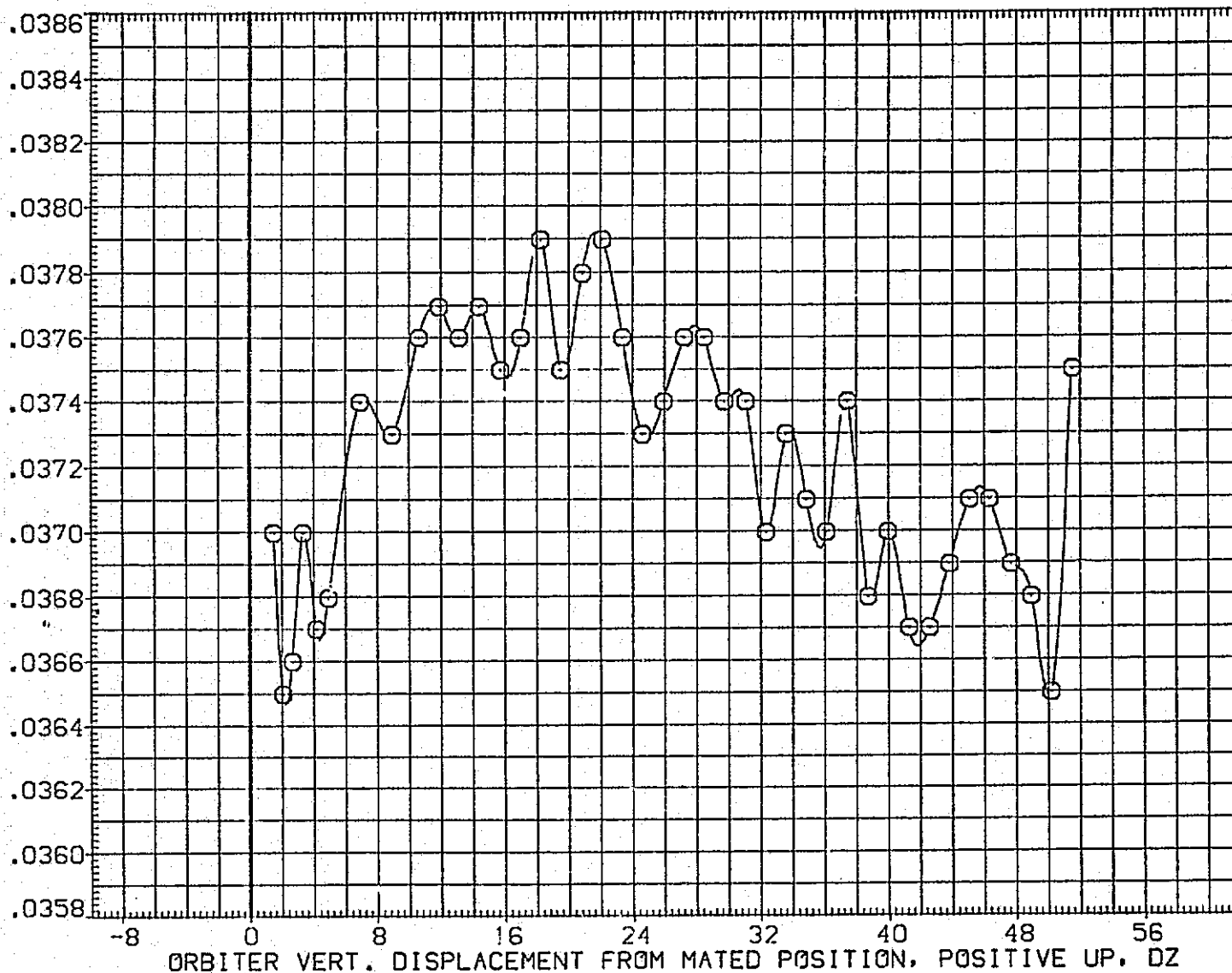


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFEC90

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2342.0400	IN.
XMRP	1339.5000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

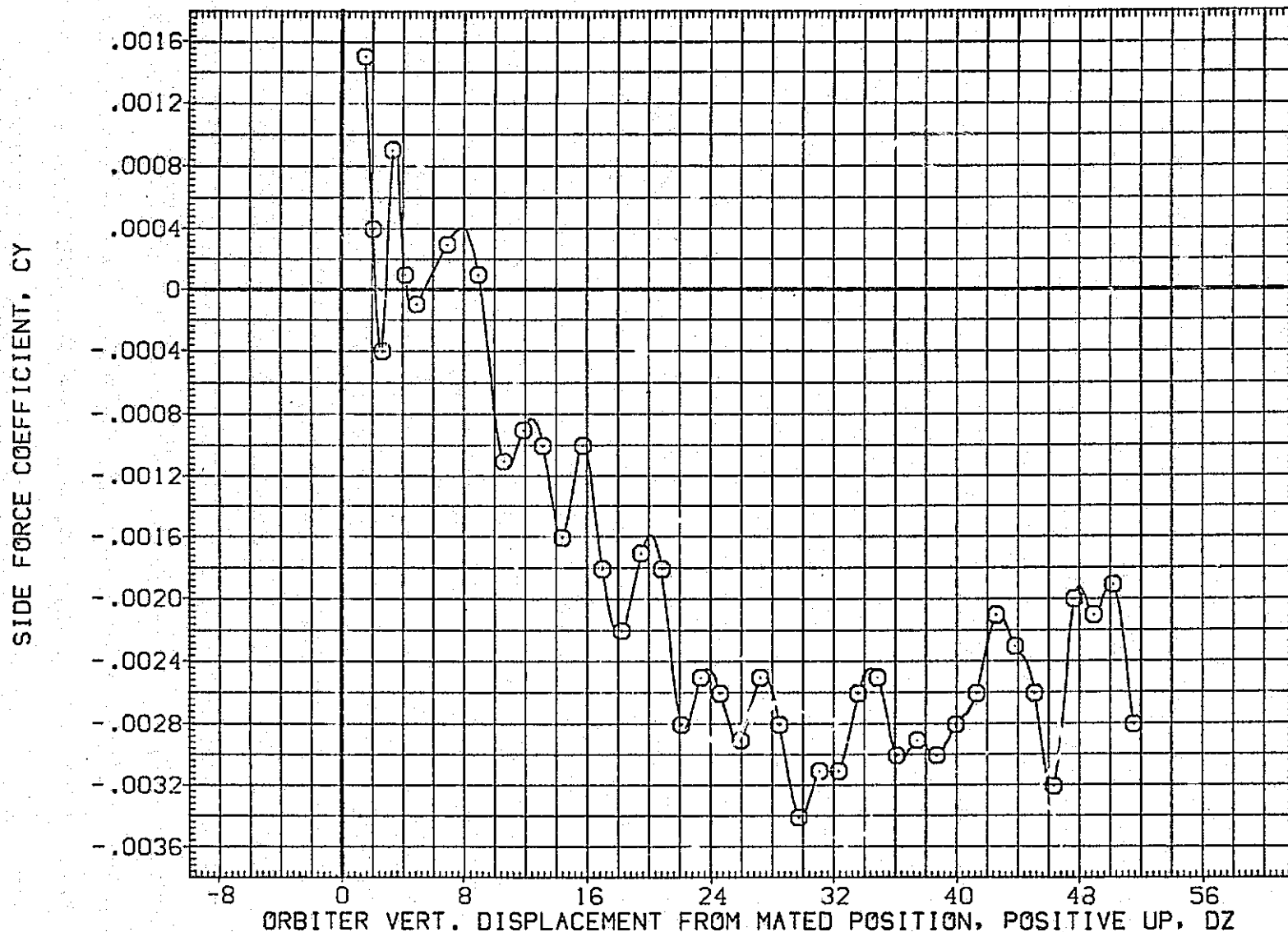


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE090)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.598	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

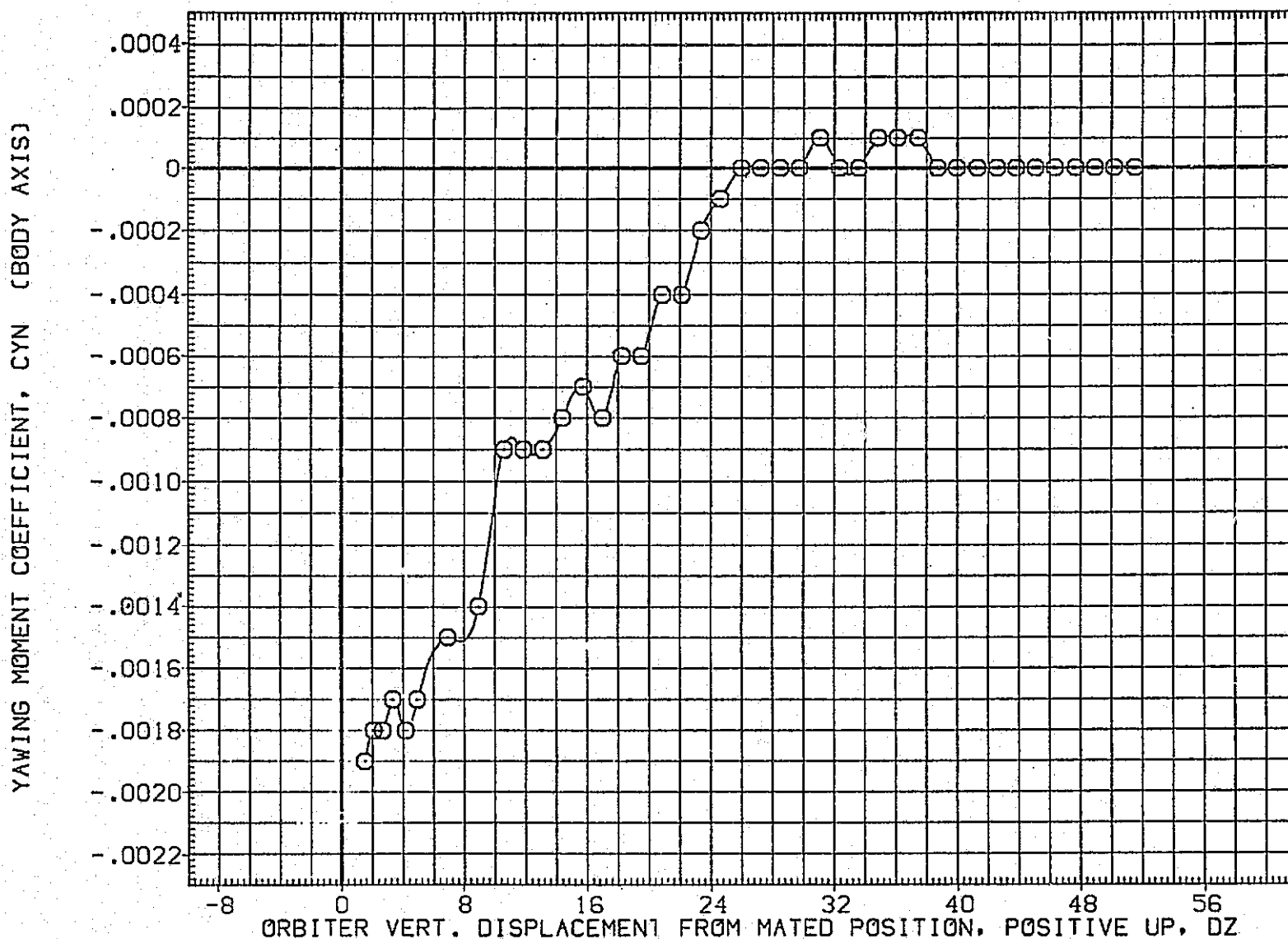


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

SYMBOL	MACH	PARAMETRIC VALUES			
○	.598	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

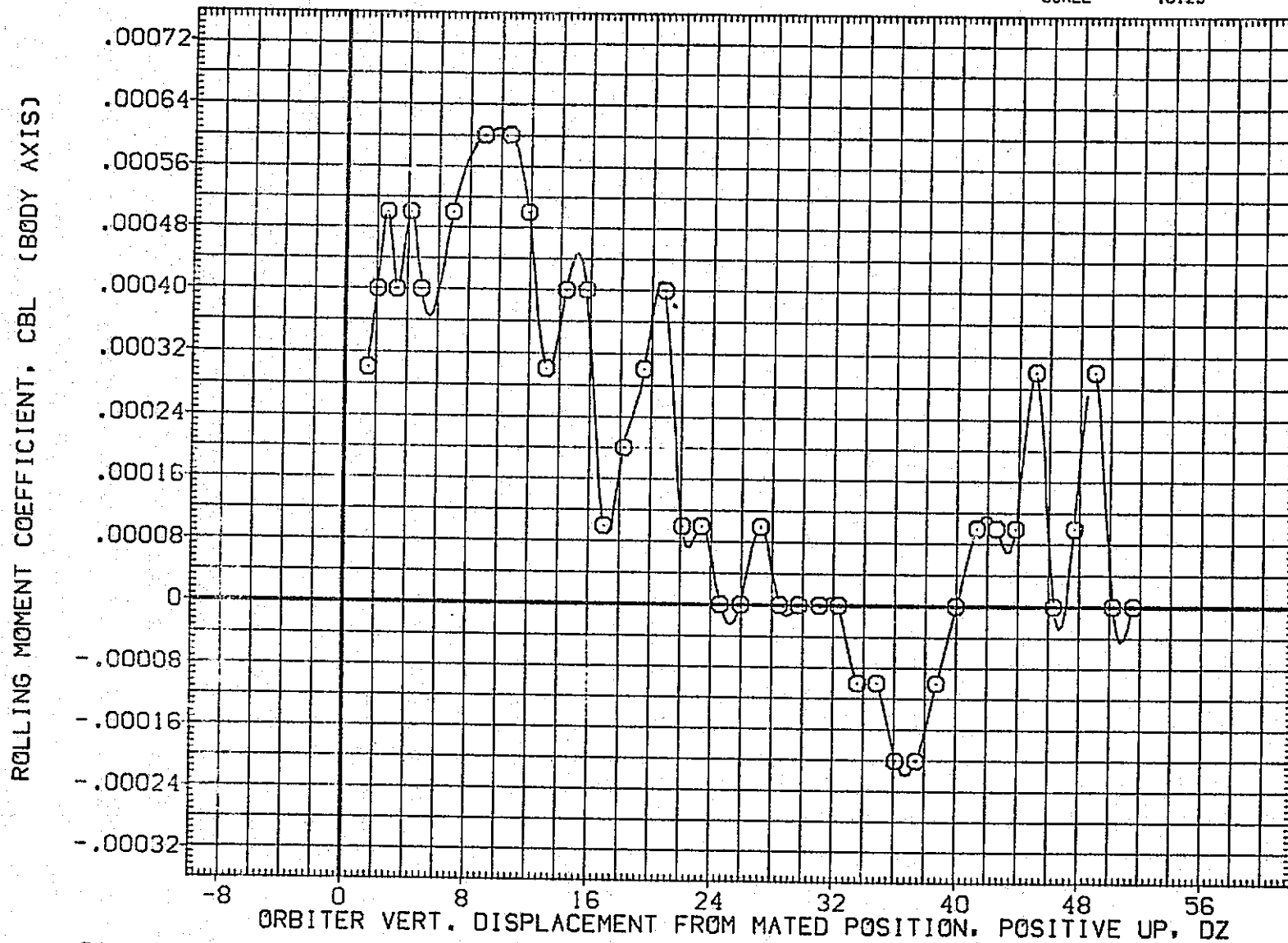


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE090)

SYMBOL

○

MACH

.598

PARAMETRIC VALUES

ALPHAC	4.000	BETAC	.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

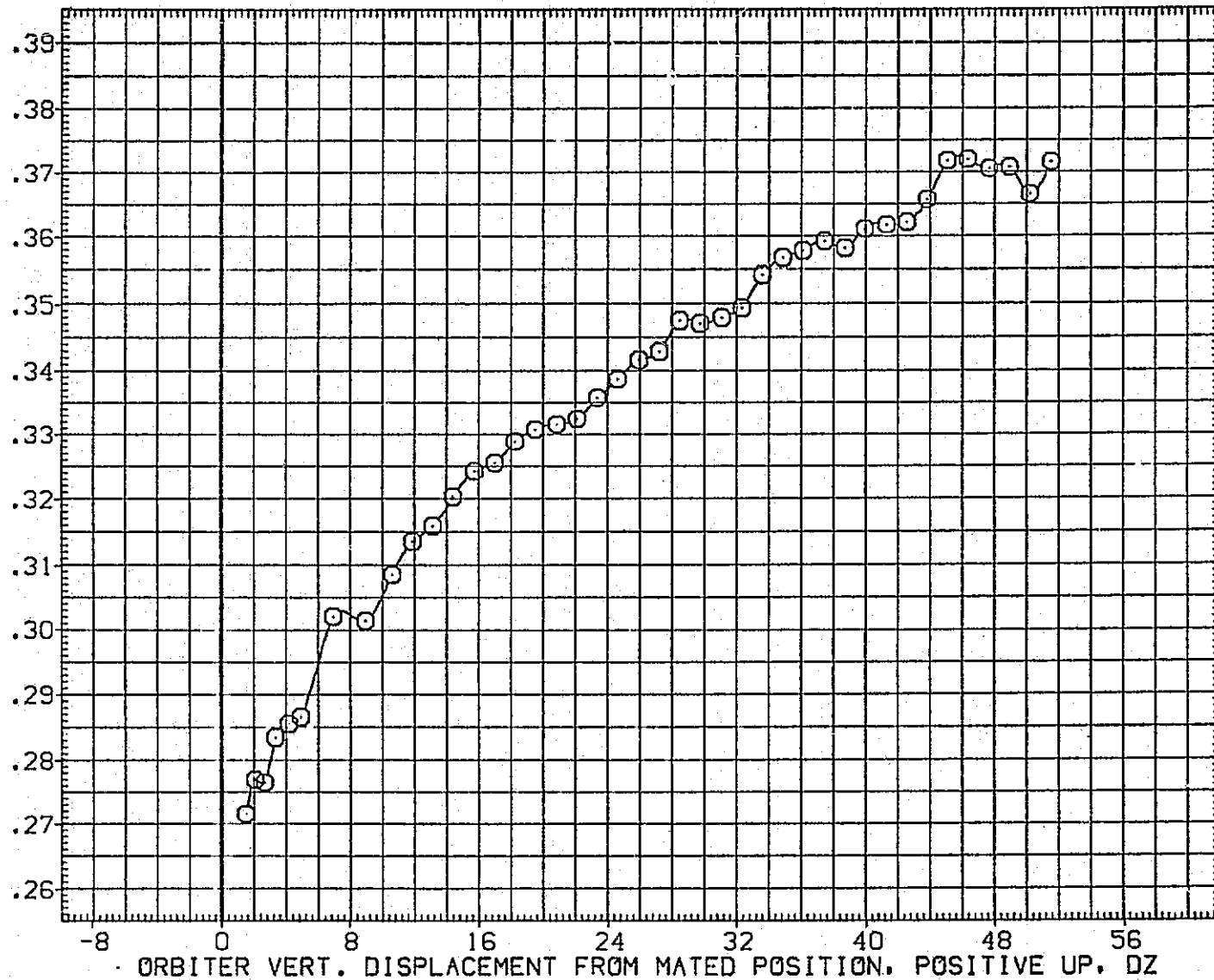


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.598	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.9400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

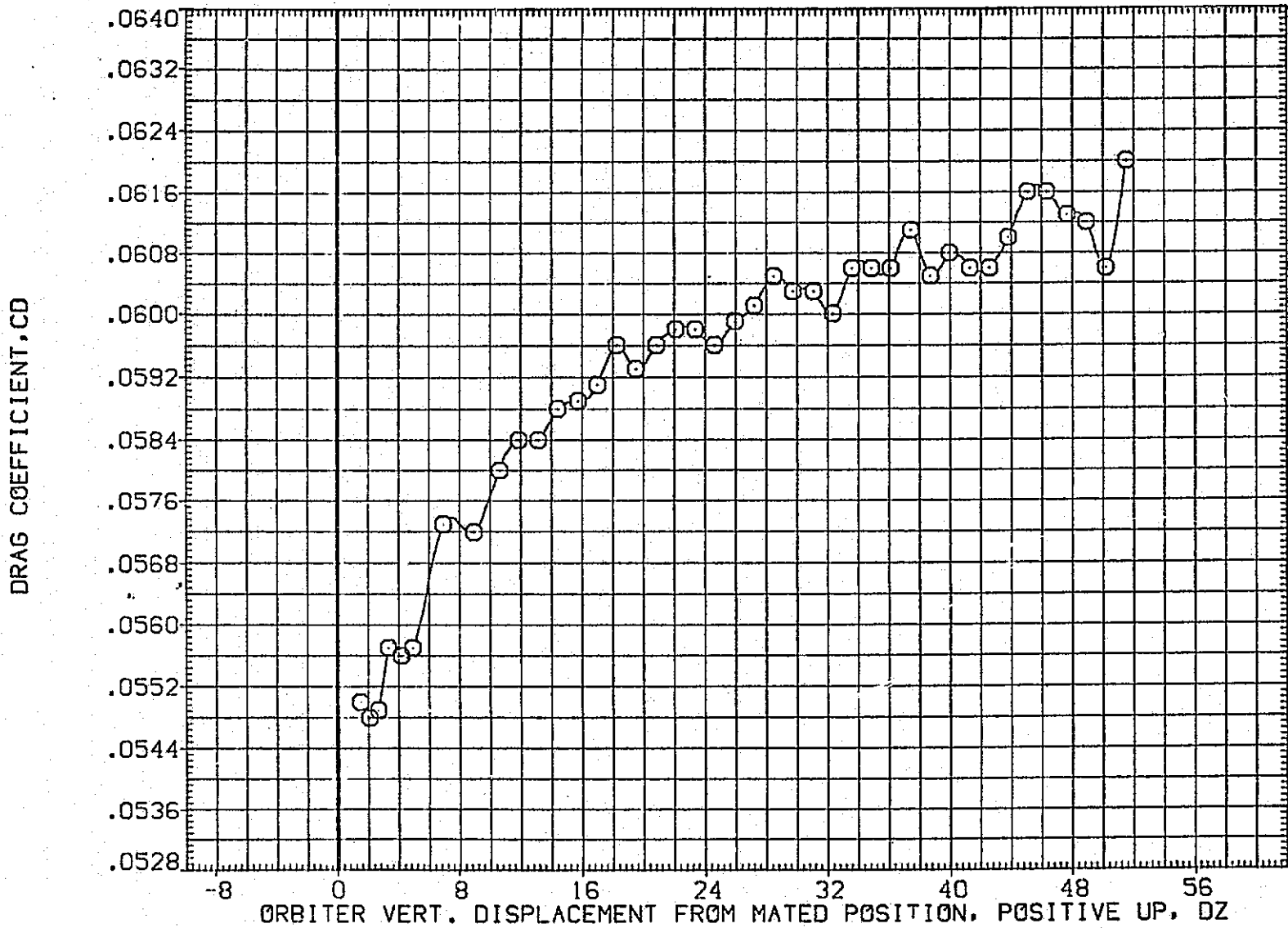


FIG.194 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE090

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE091)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

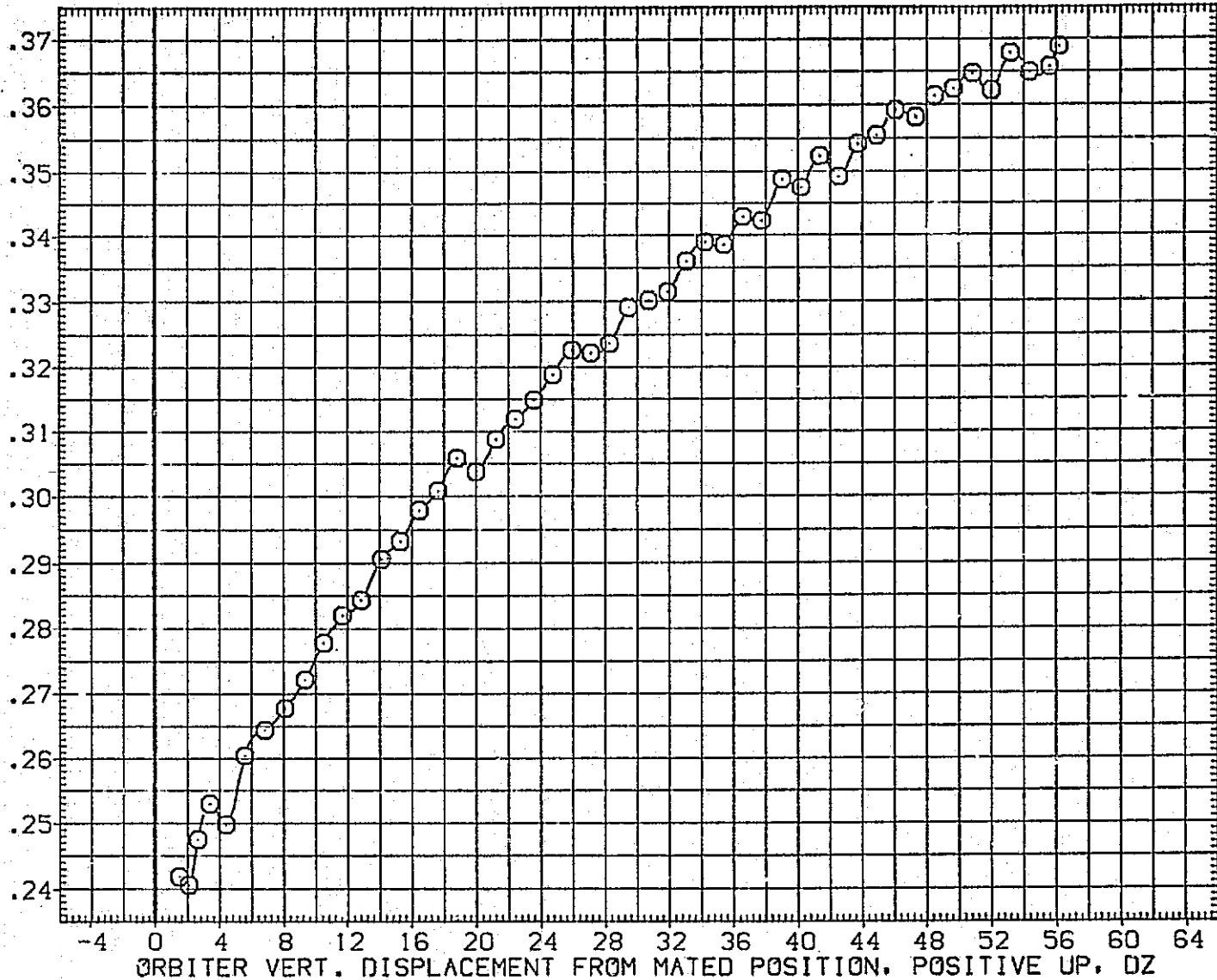


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

SYMBOL
○MACH
.600

PARAMETRIC VALUES

ALPHAC	4.000	BETAC	.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	8.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

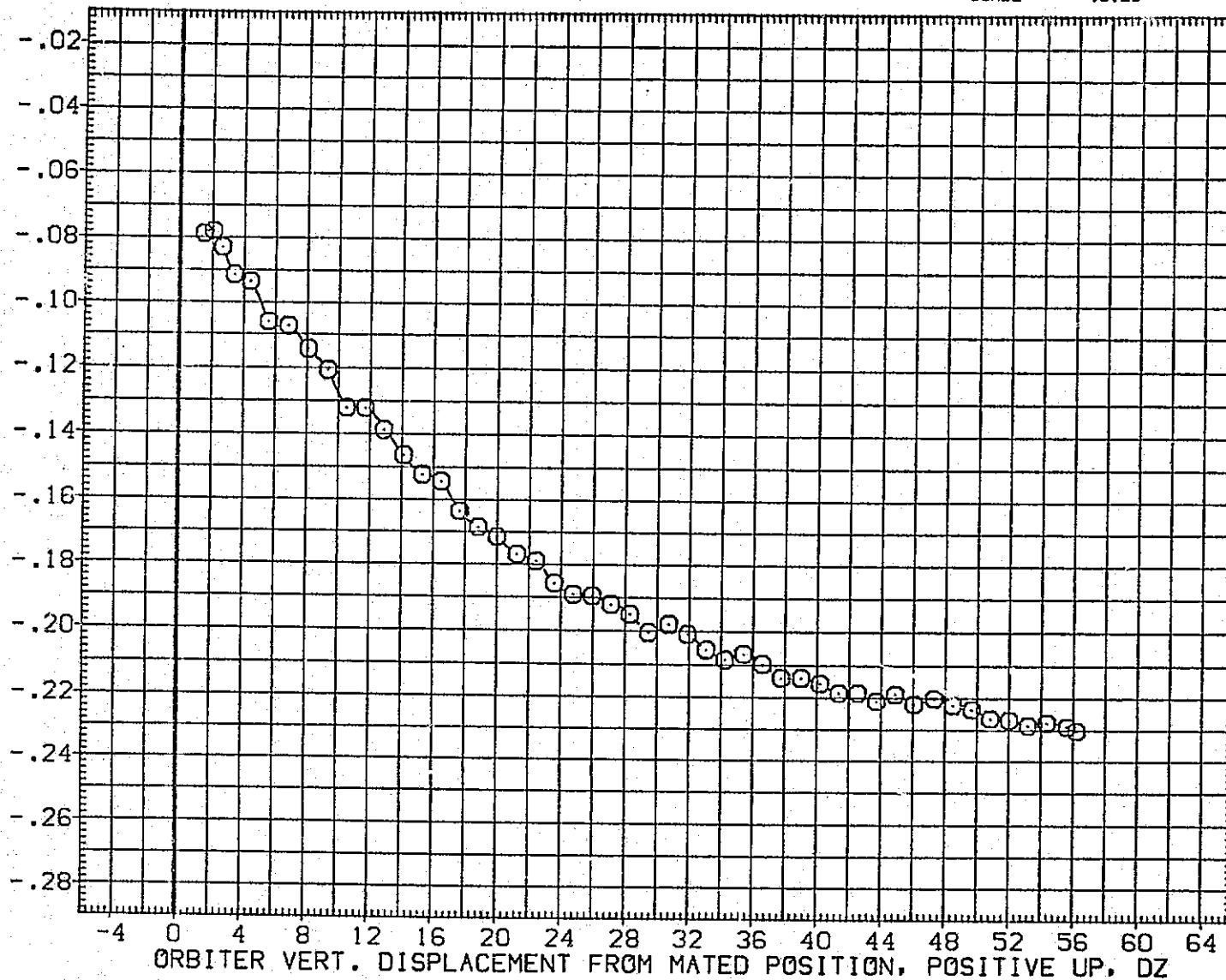


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE091)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

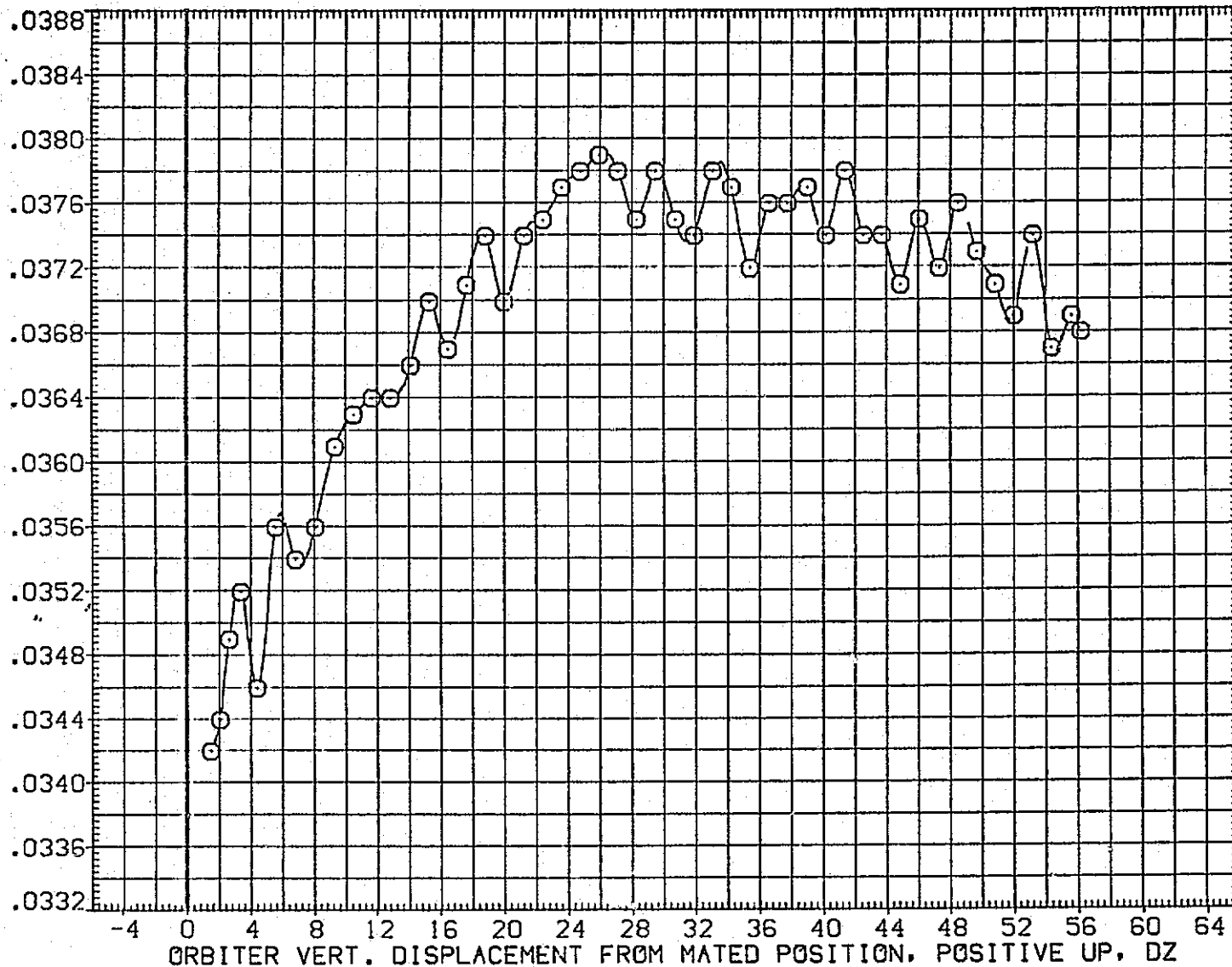


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

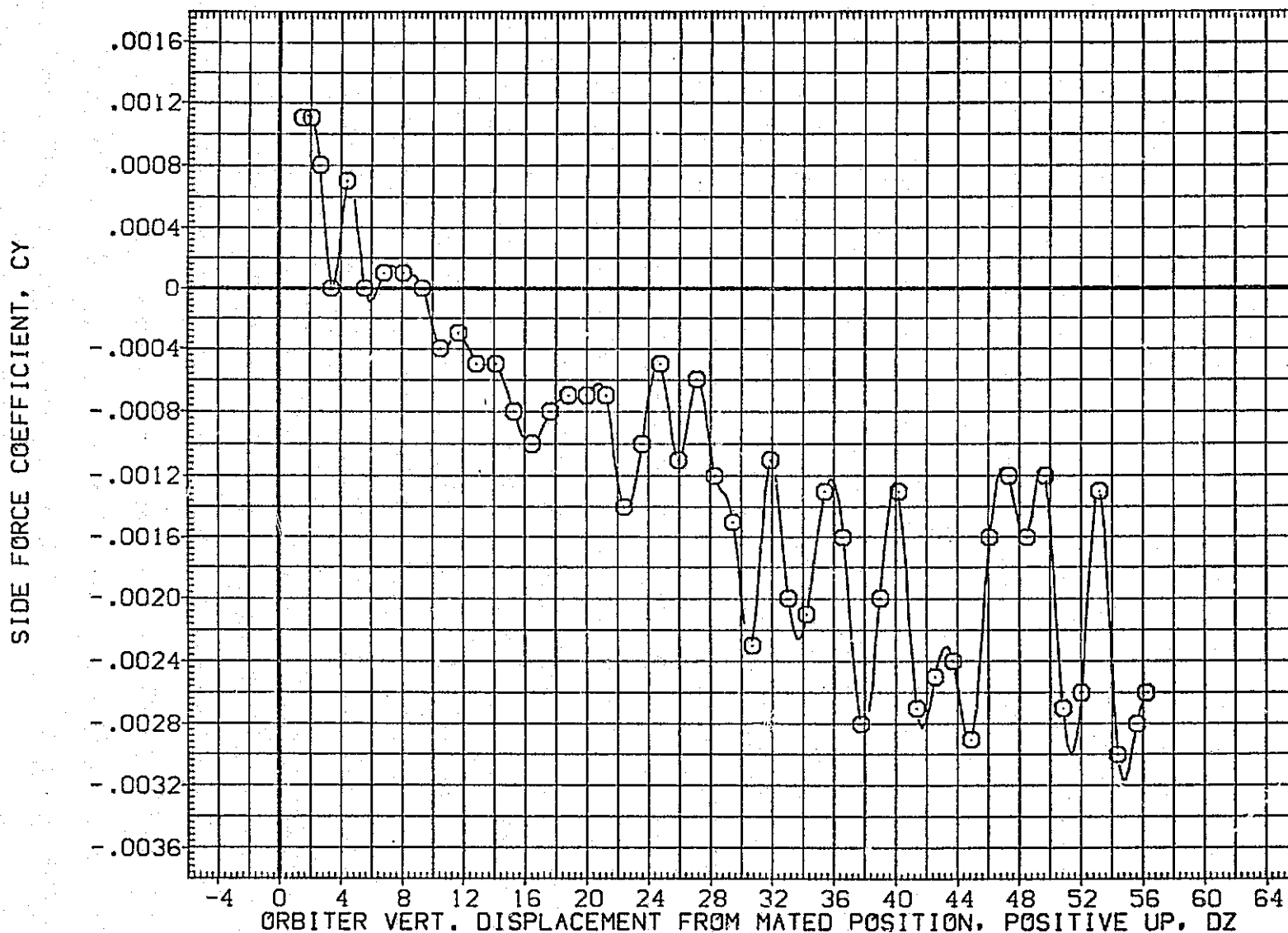


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE091)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

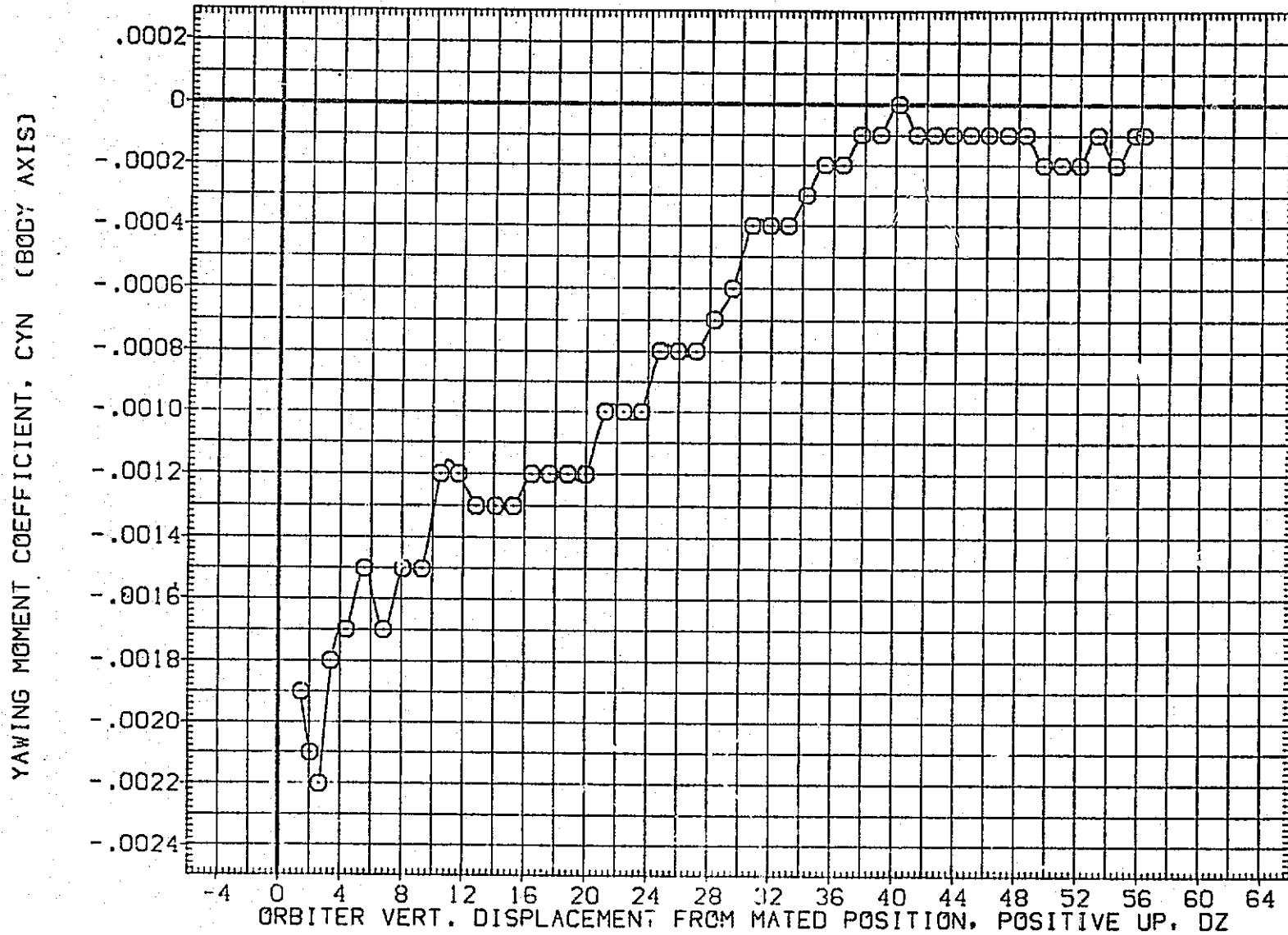


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	IN. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

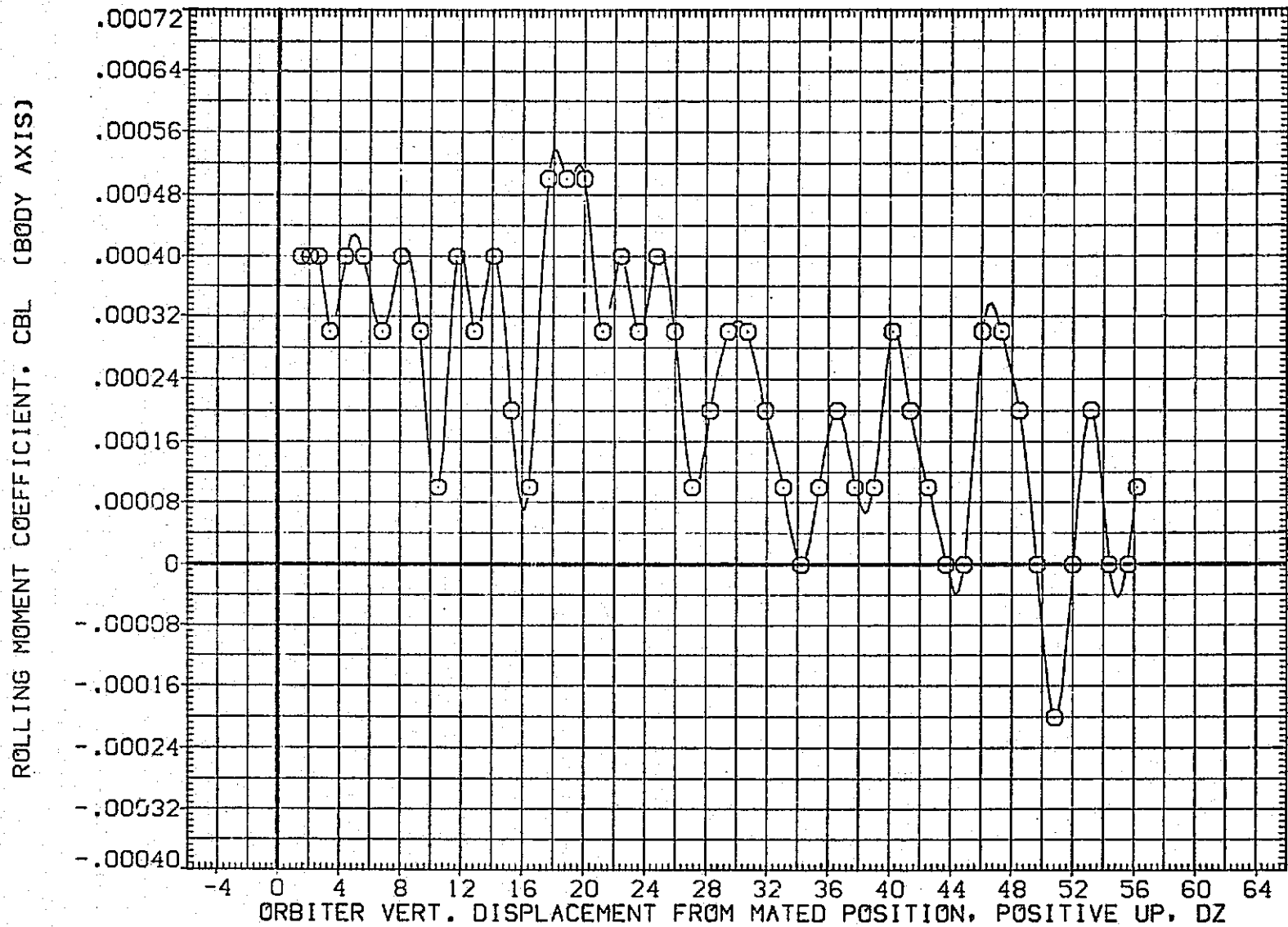


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE091)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.600	4.000	0.000	5.000	.000	5500.0000	327.7800	IN.
		5.000	0.000	8.000	.000	2348.0400	1339.9000	IN.
		.000	0.000	.000	.000	190.7500	.0125	IN. XC
		.000	0.000	.000	.000			IN. YC
		.000	0.000	.000	.000			IN. ZC

LIFT COEFFICIENT, CL

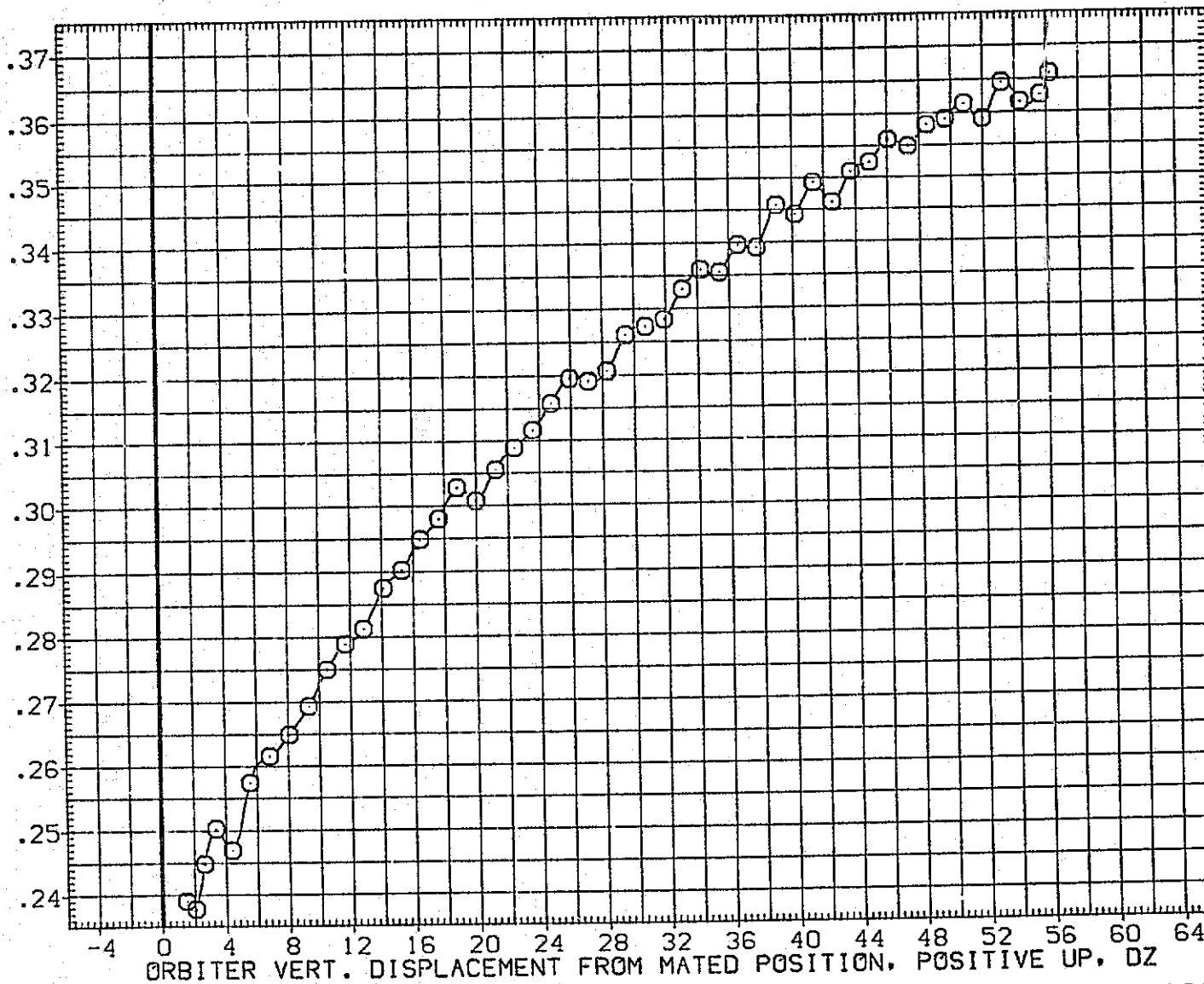


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

SYMBOL

○

MACH

.600

ALPHAC

PARAMETRIC VALUES

4.000

BETAC

.000

STAB

5.000

ELEVON

5.000

BDFLAP

.000

DX

.000

DY

.000

IORB

8.000

BETA0

.000

RUDDER

.000

REFERENCE INFORMATION

SREF 5500.0000

SQ.FT.

LREF 327.7800

IN.

BREF 2348.0400

IN.

XMRP 1339.5300

IN. XC

YMRP .0000

IN. YC

ZMRP 190.7500

IN. ZC

SCALE .0125

DRAG COEFFICIENT, CD

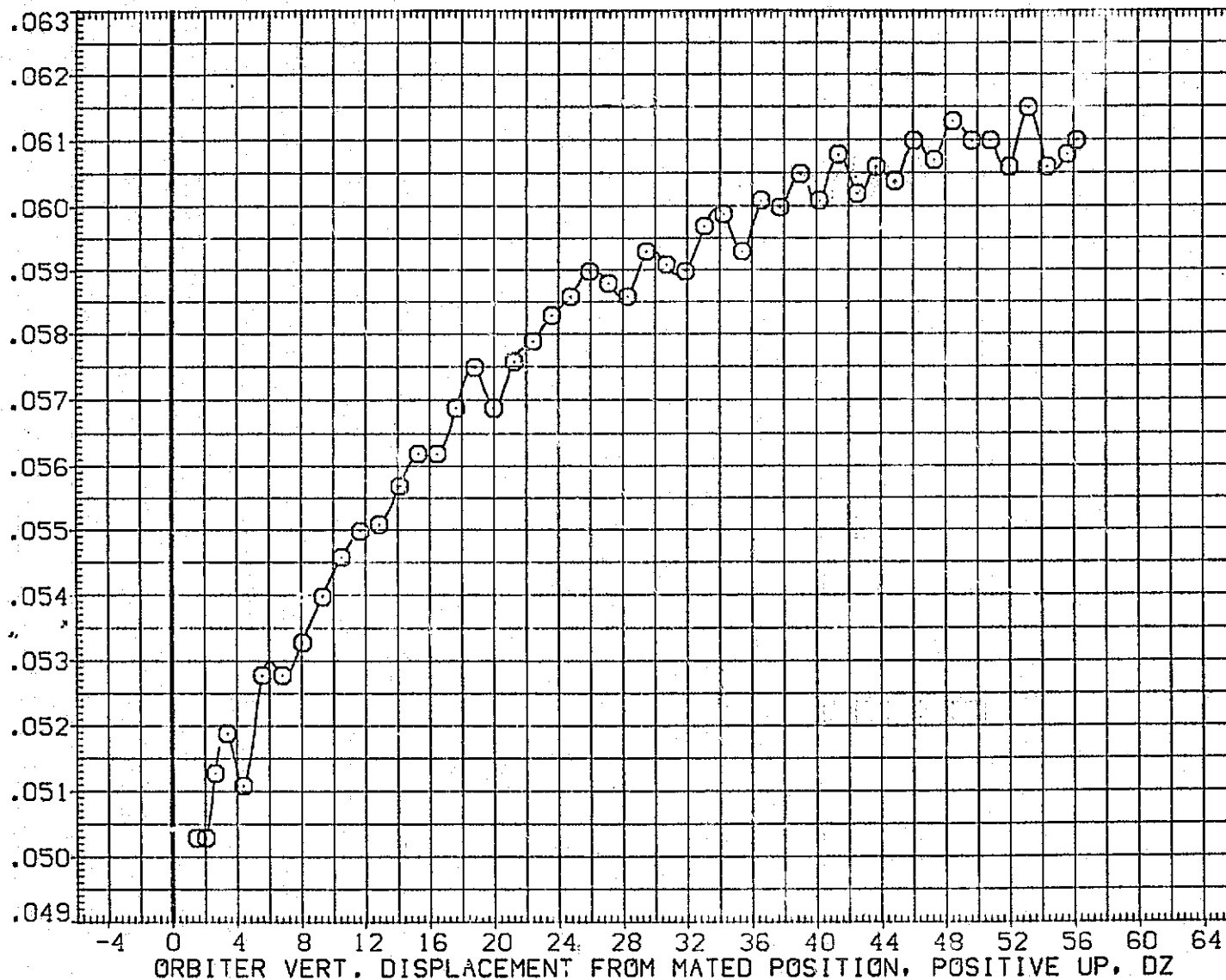


FIG.195 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE091

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE092)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

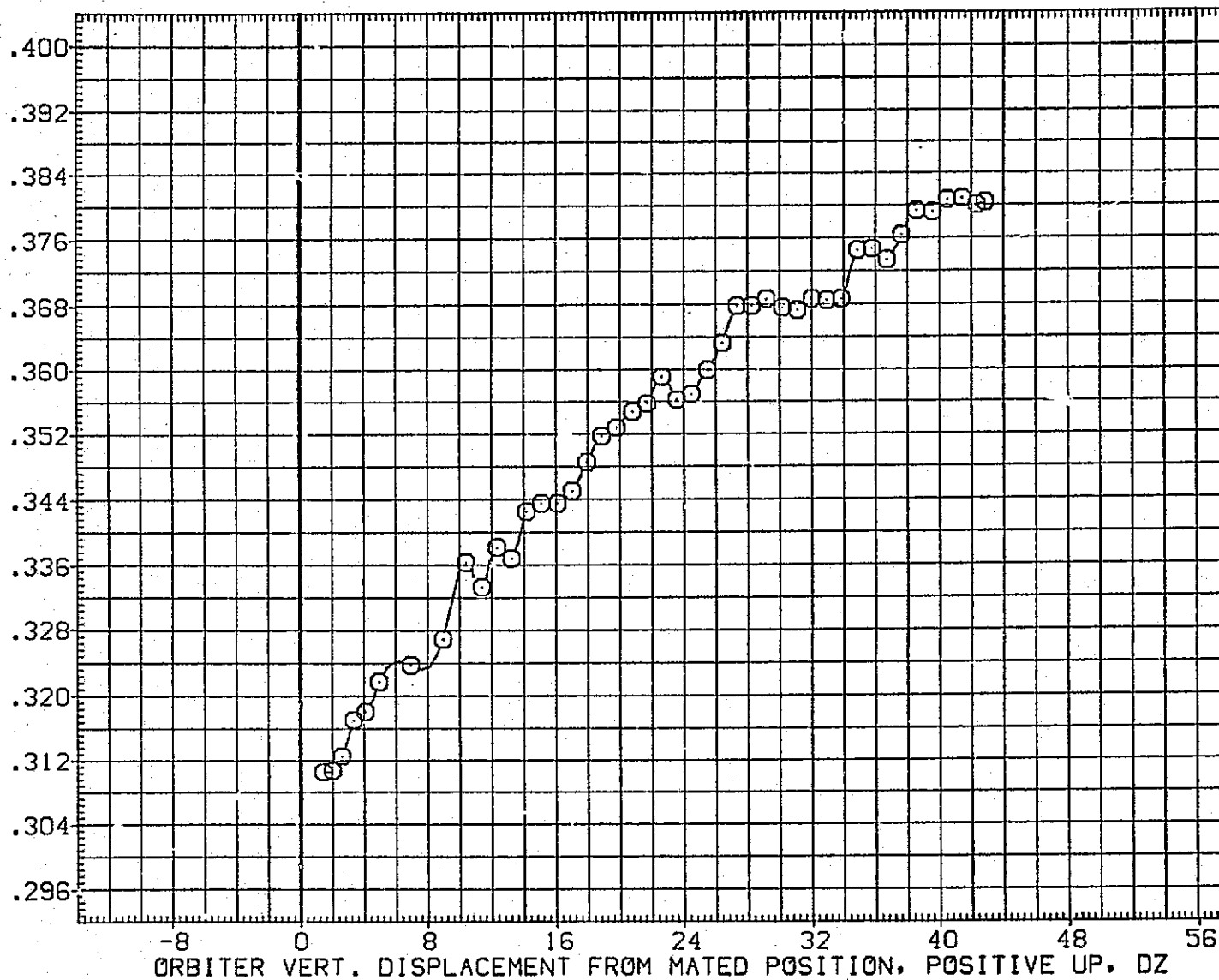


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		OY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. T.
LREF	327.800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

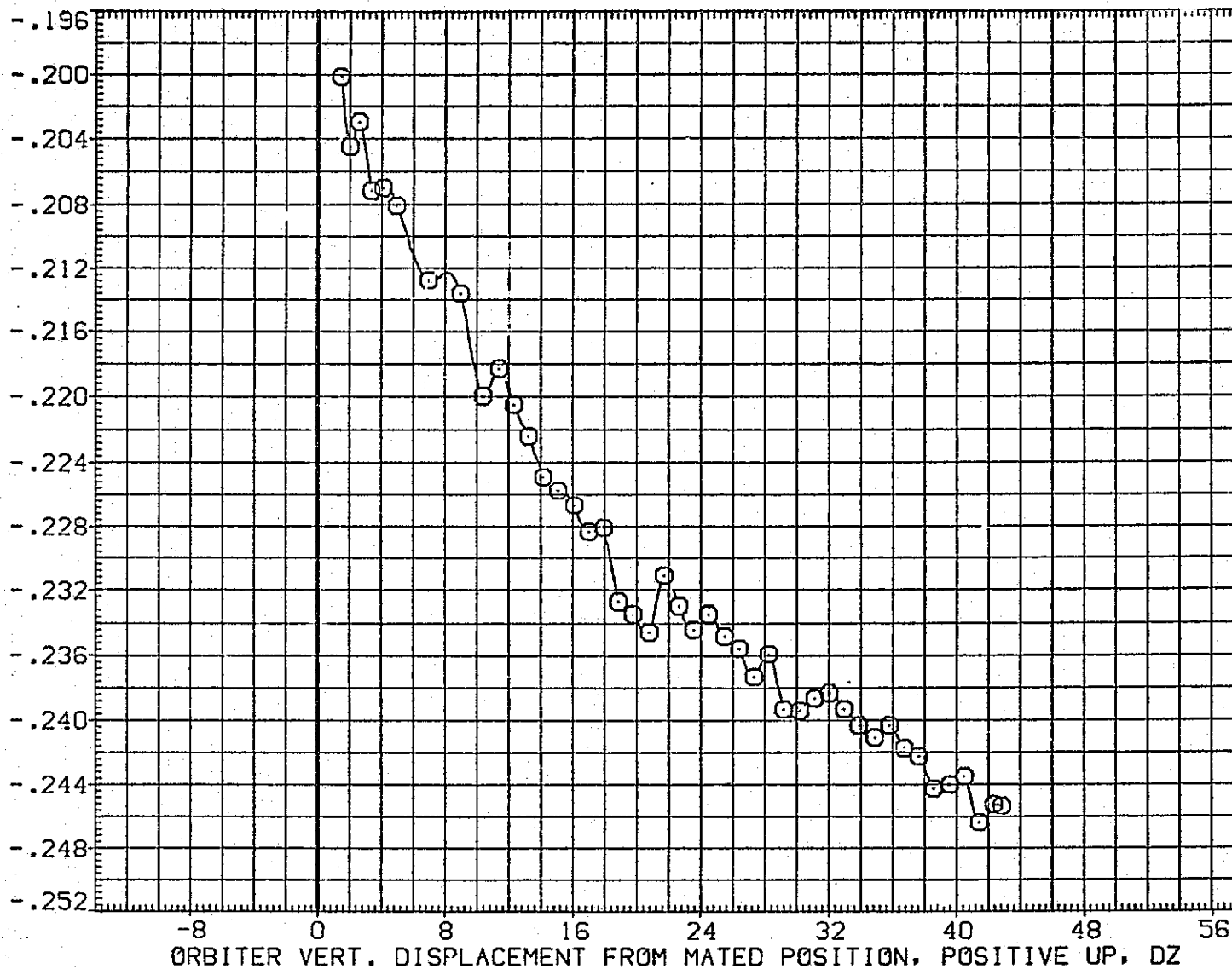


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE092)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

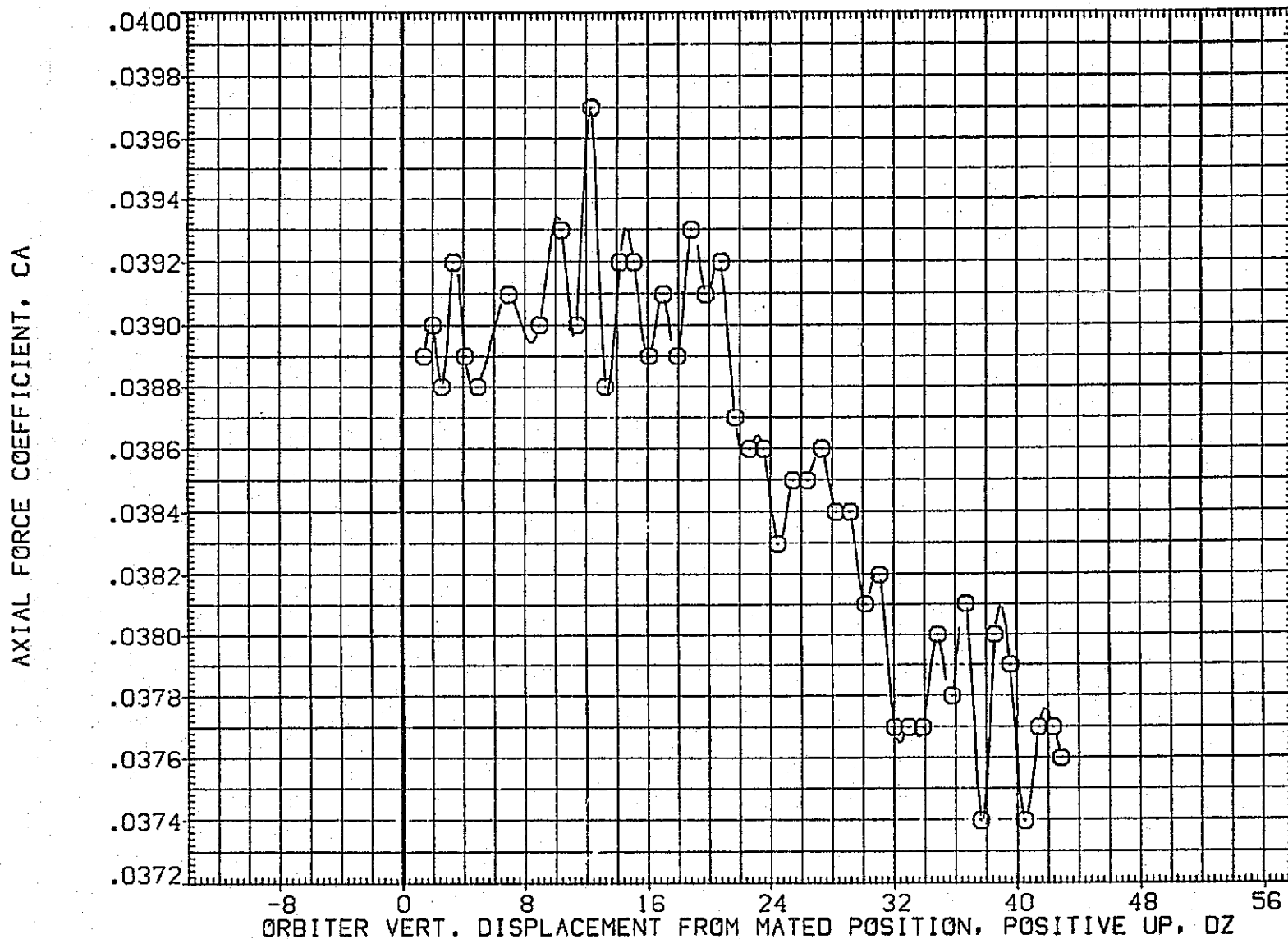


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SP. FT.
LREF	327.7800	IN.
BREF	234.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

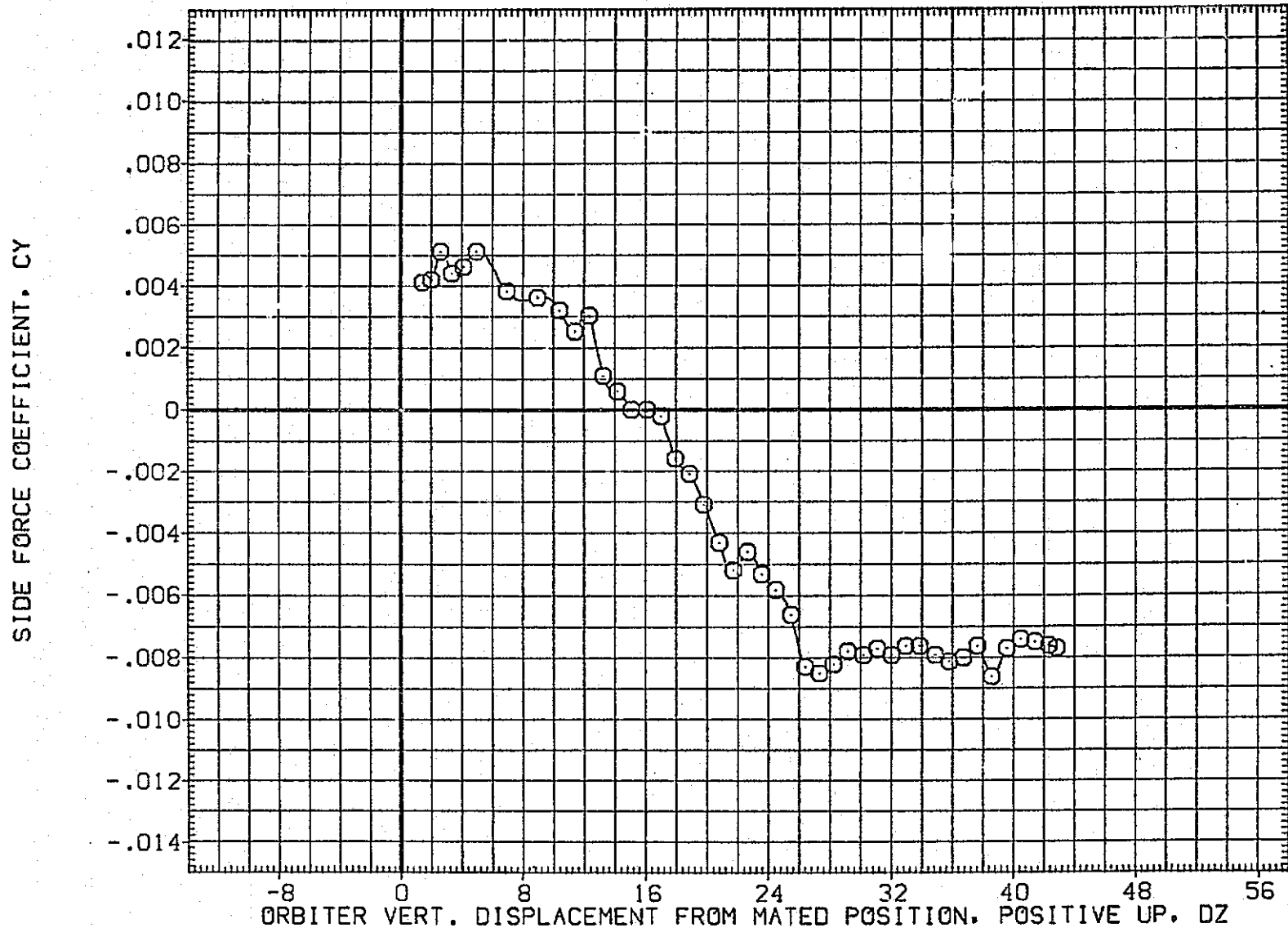


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE092)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

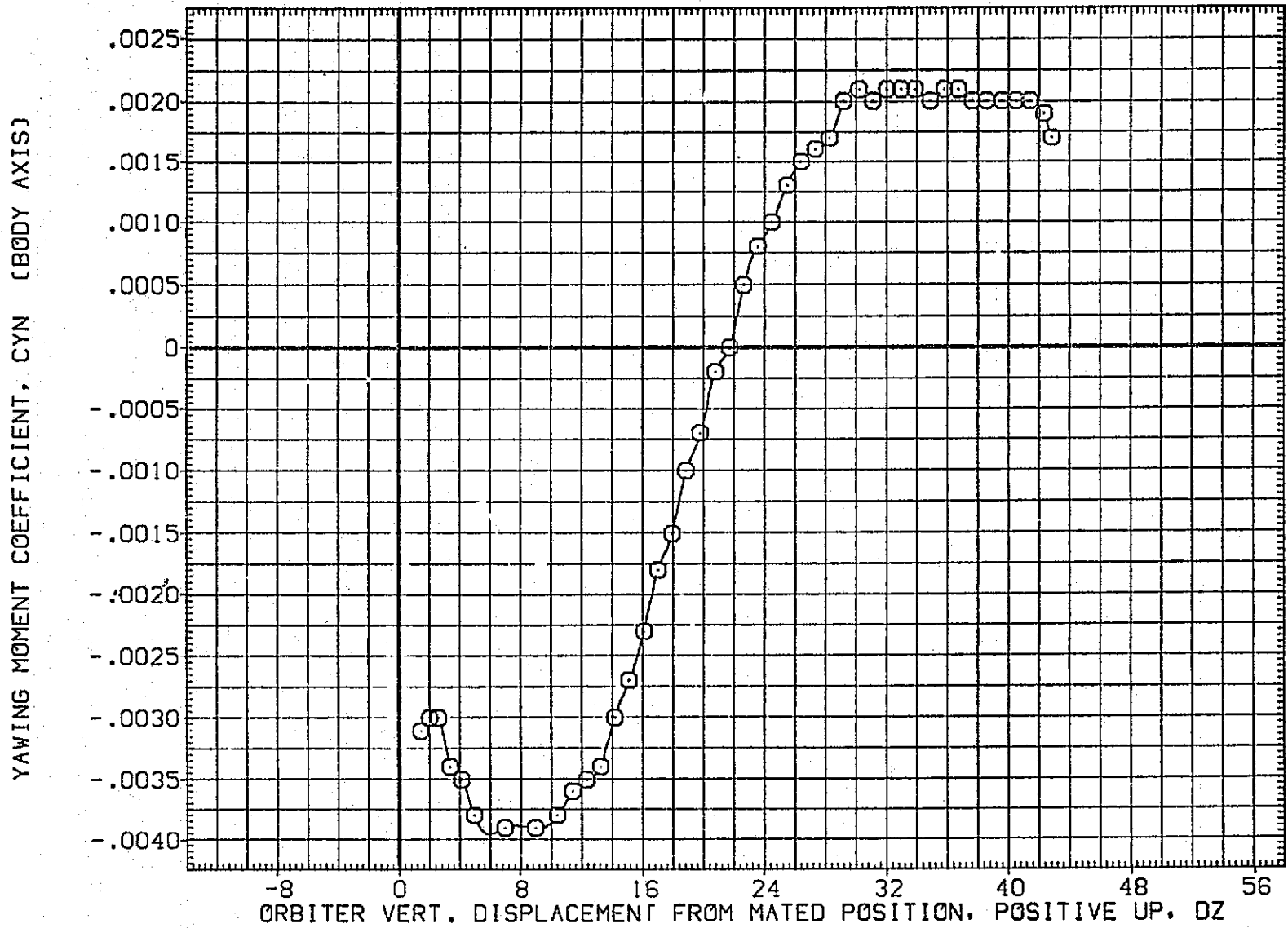


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SL.FY.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

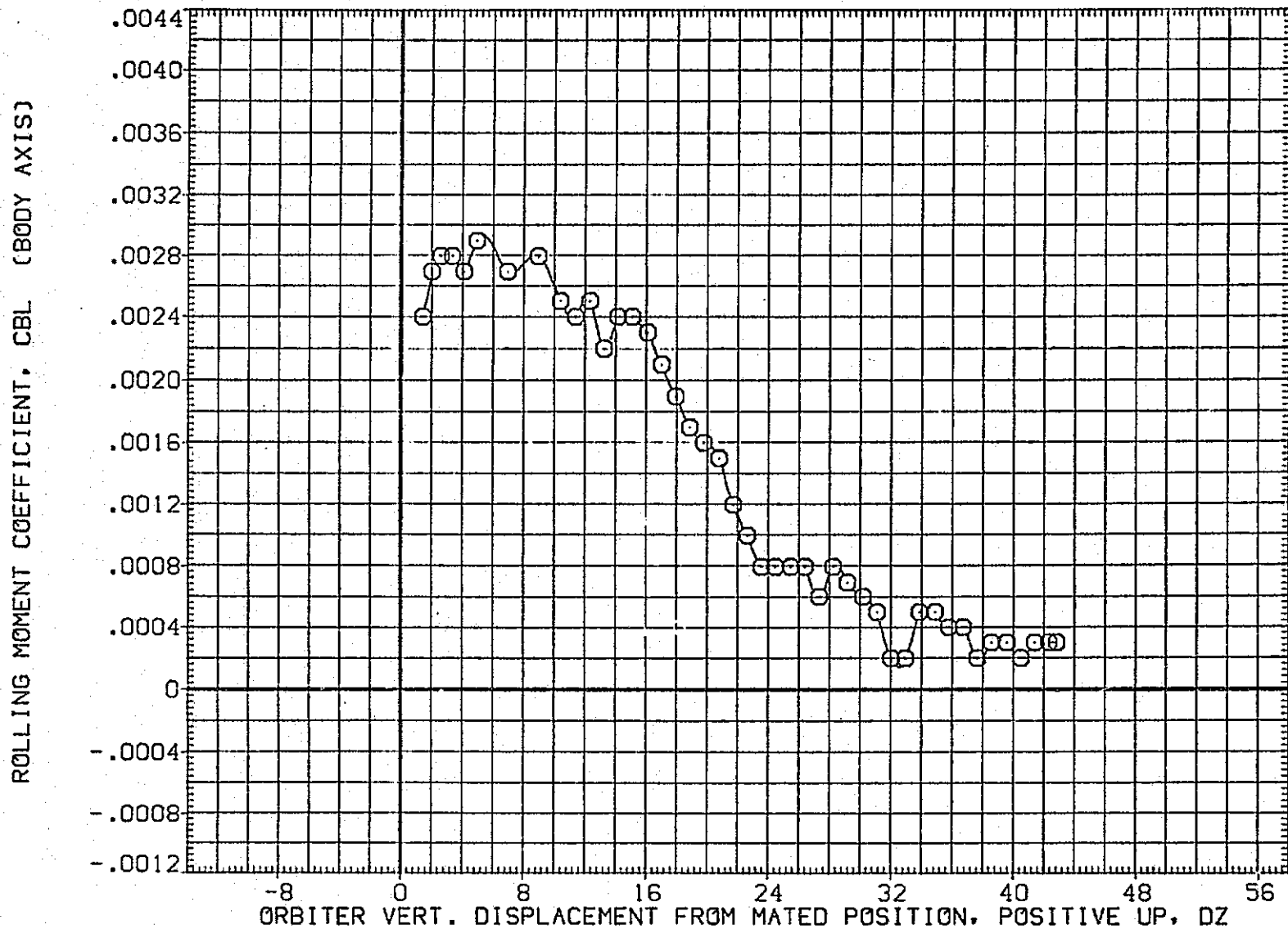


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE092)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

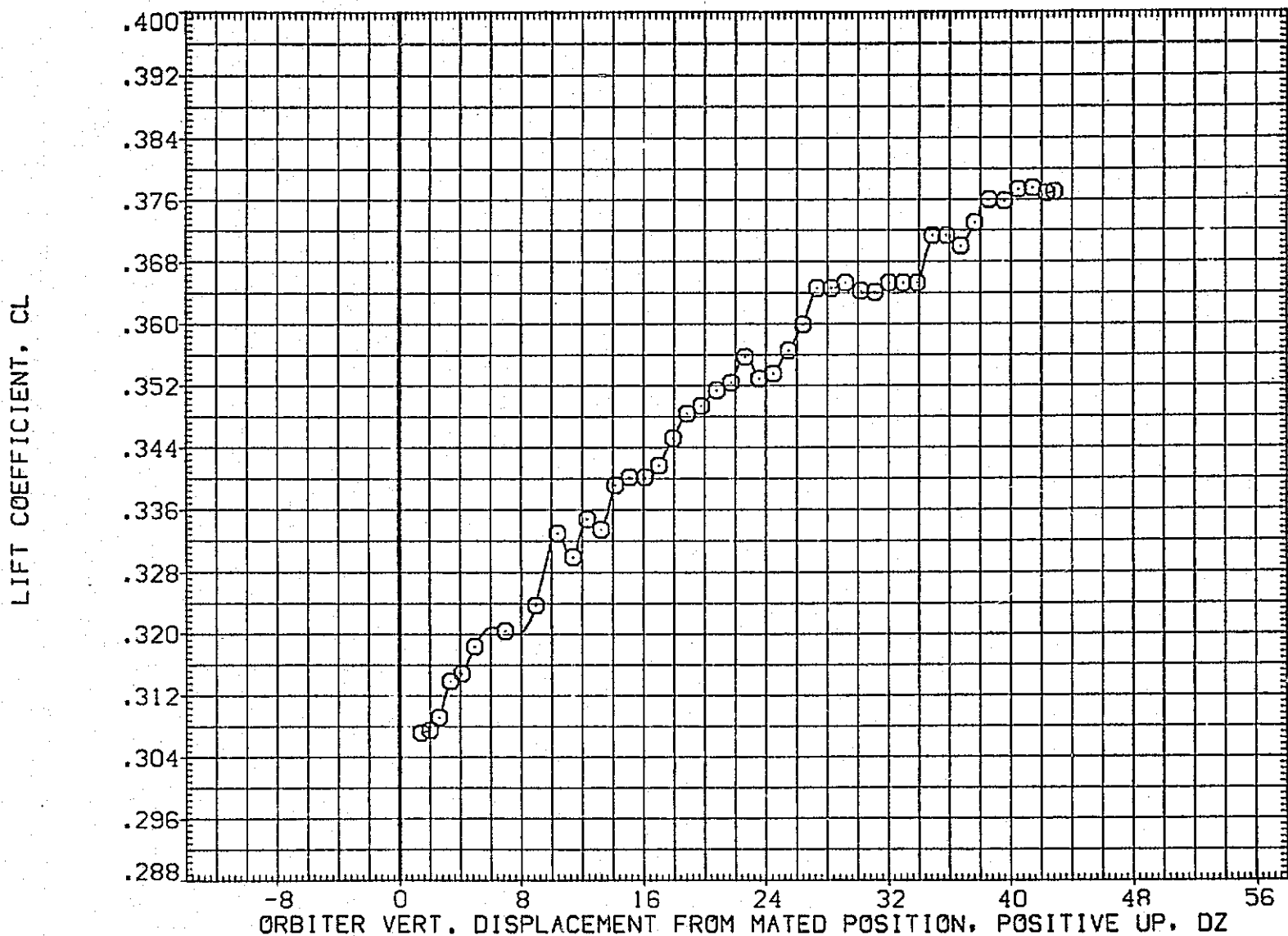


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SG. FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

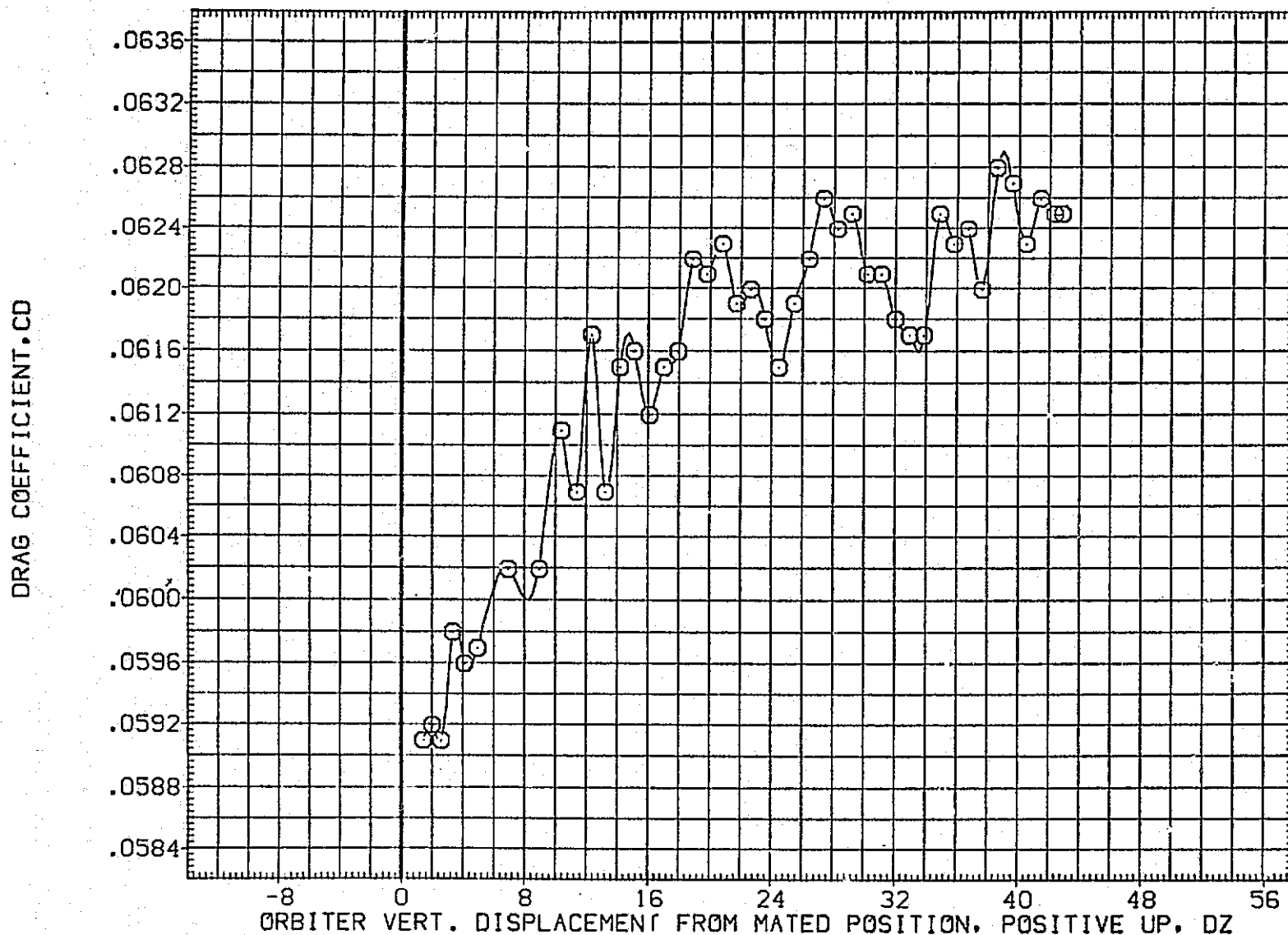


FIG.196 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=5, RFE092

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE093)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

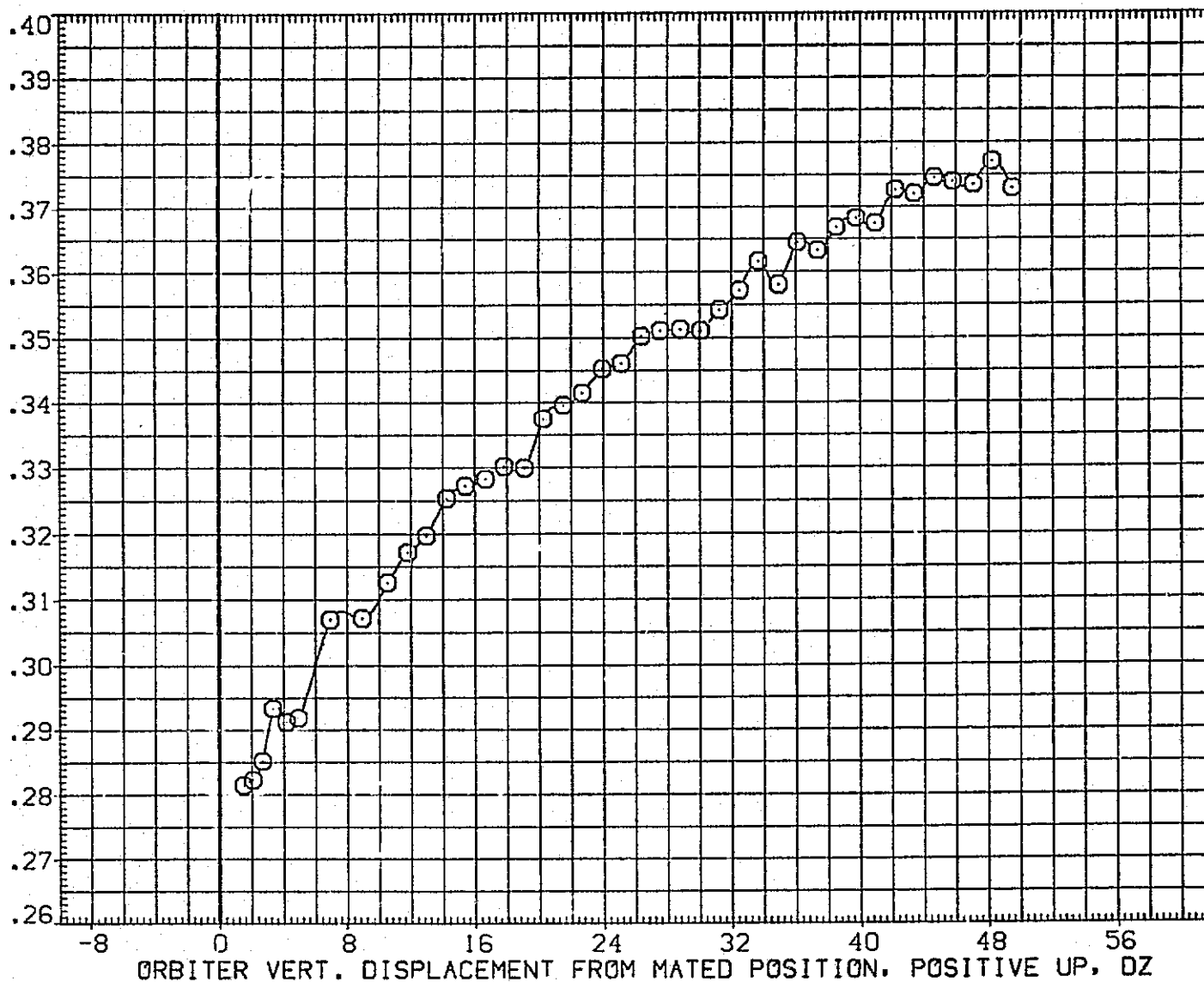


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

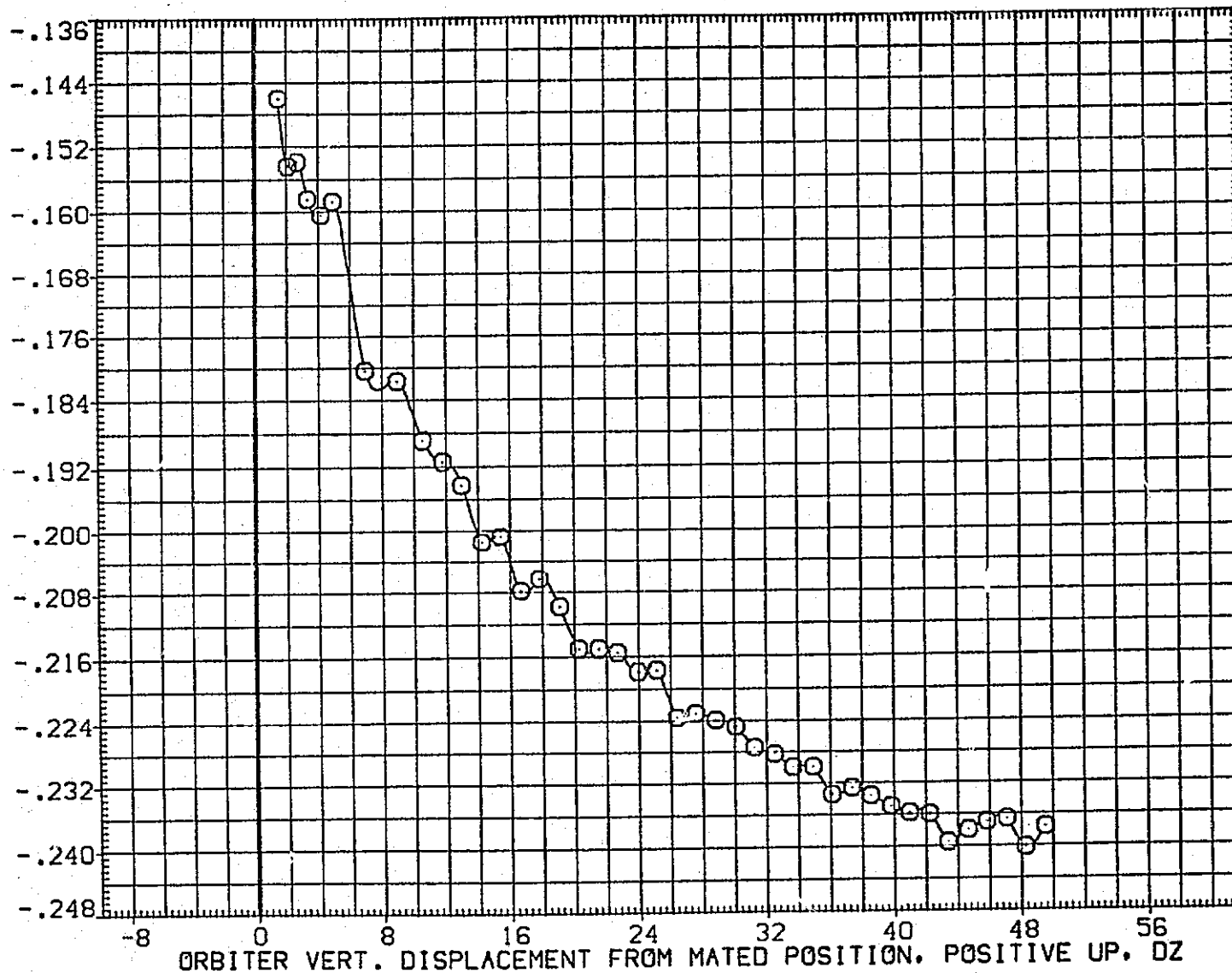


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE093)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

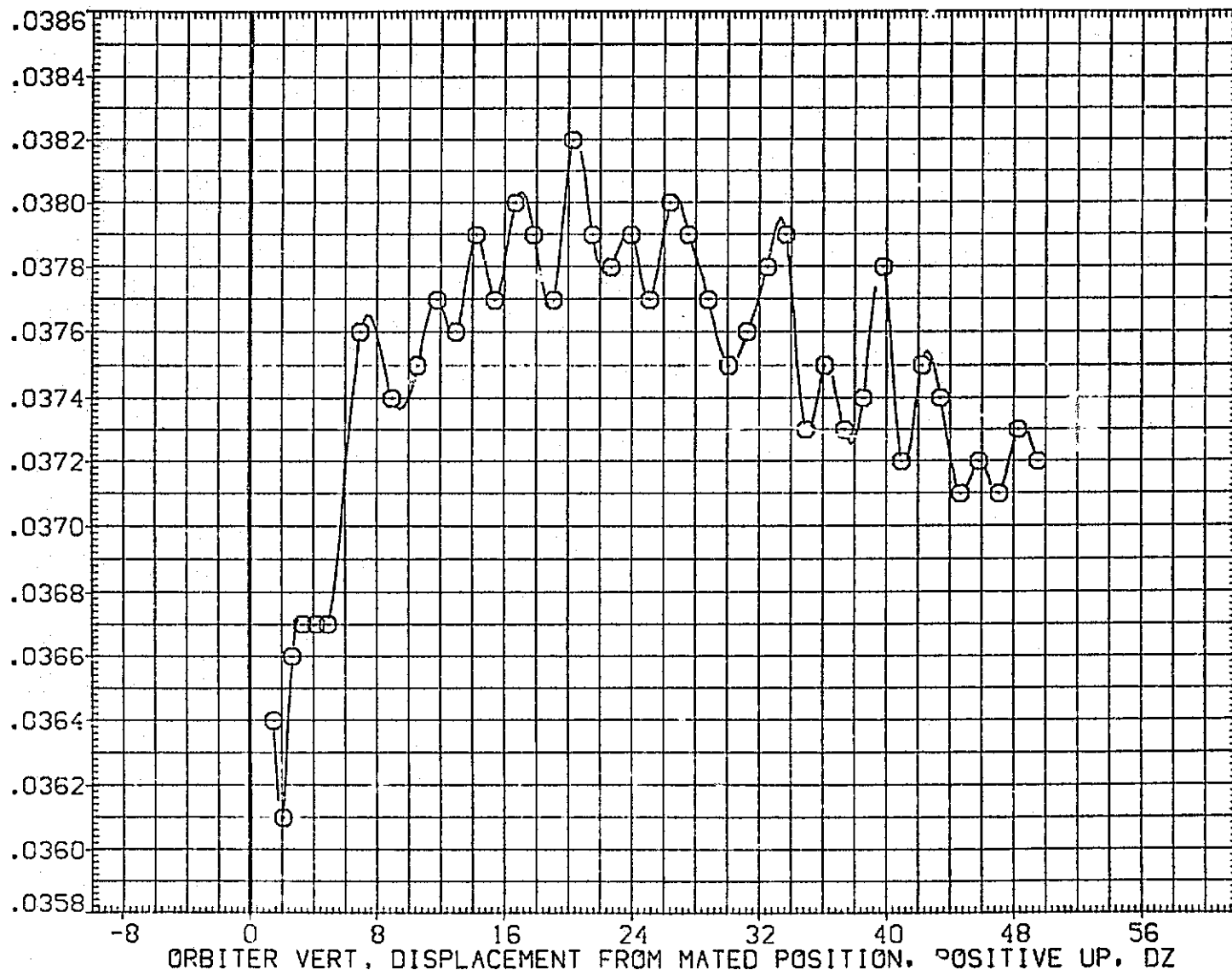


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

SYMBOL

○

MACH

.594

ALPHAC

PARAMETRIC VALUES

BETAC .000

STAB

ELEVON 5.000

BDFLAP

DX .000

DY

IORB 6.000

BETA0

RUDDER .000

REFERENCE INFORMATION

SREF 5500.0000

SQ.FT.

LREF 327.7800

IN.

BREF 2348.0400

IN.

XMRP 1339.9000

IN. XC

YMRP .0000

IN. YC

ZMRP 190.7500

IN. ZC

SCALE .0125

SIDE FORCE COEFFICIENT, CY

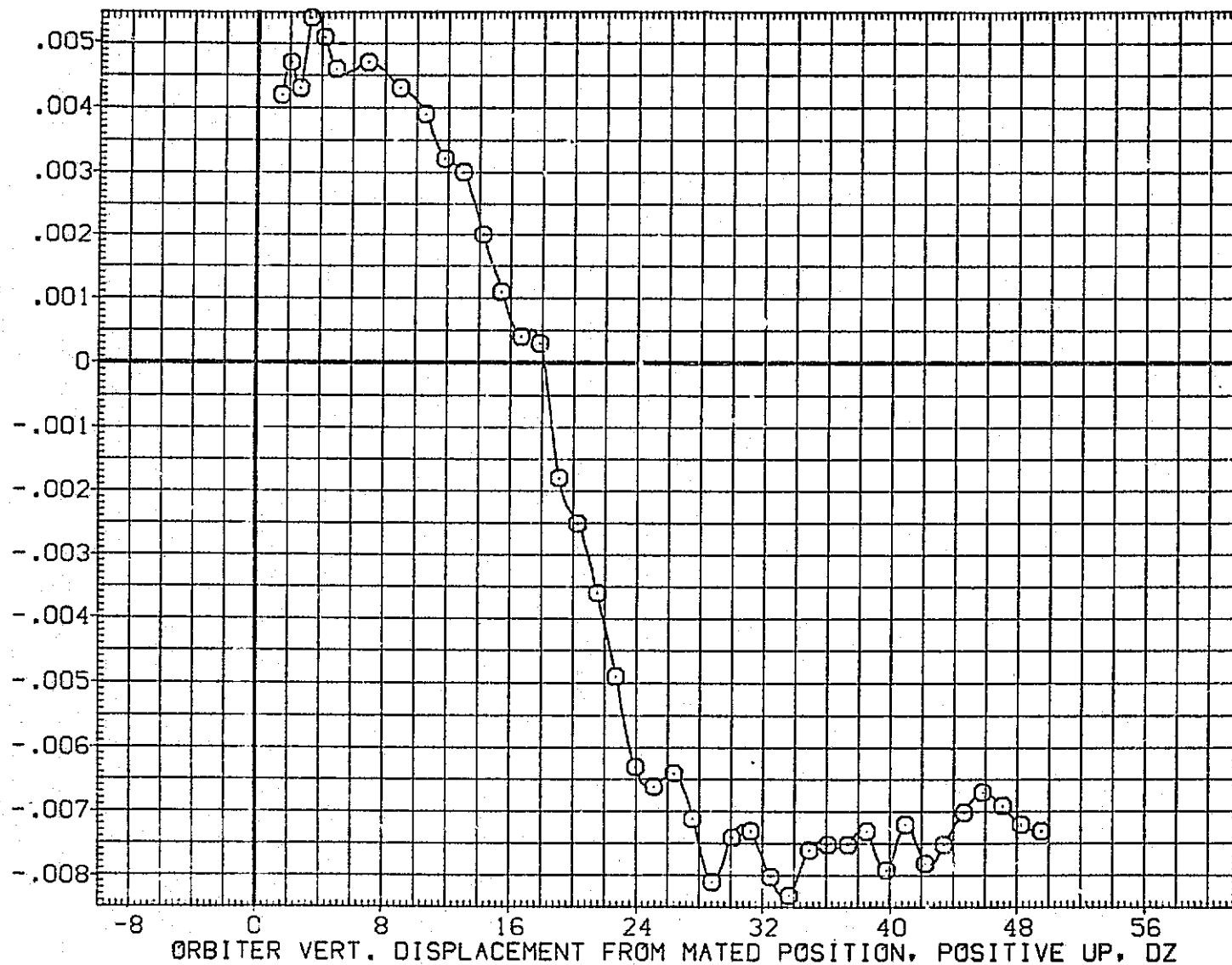


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE093)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

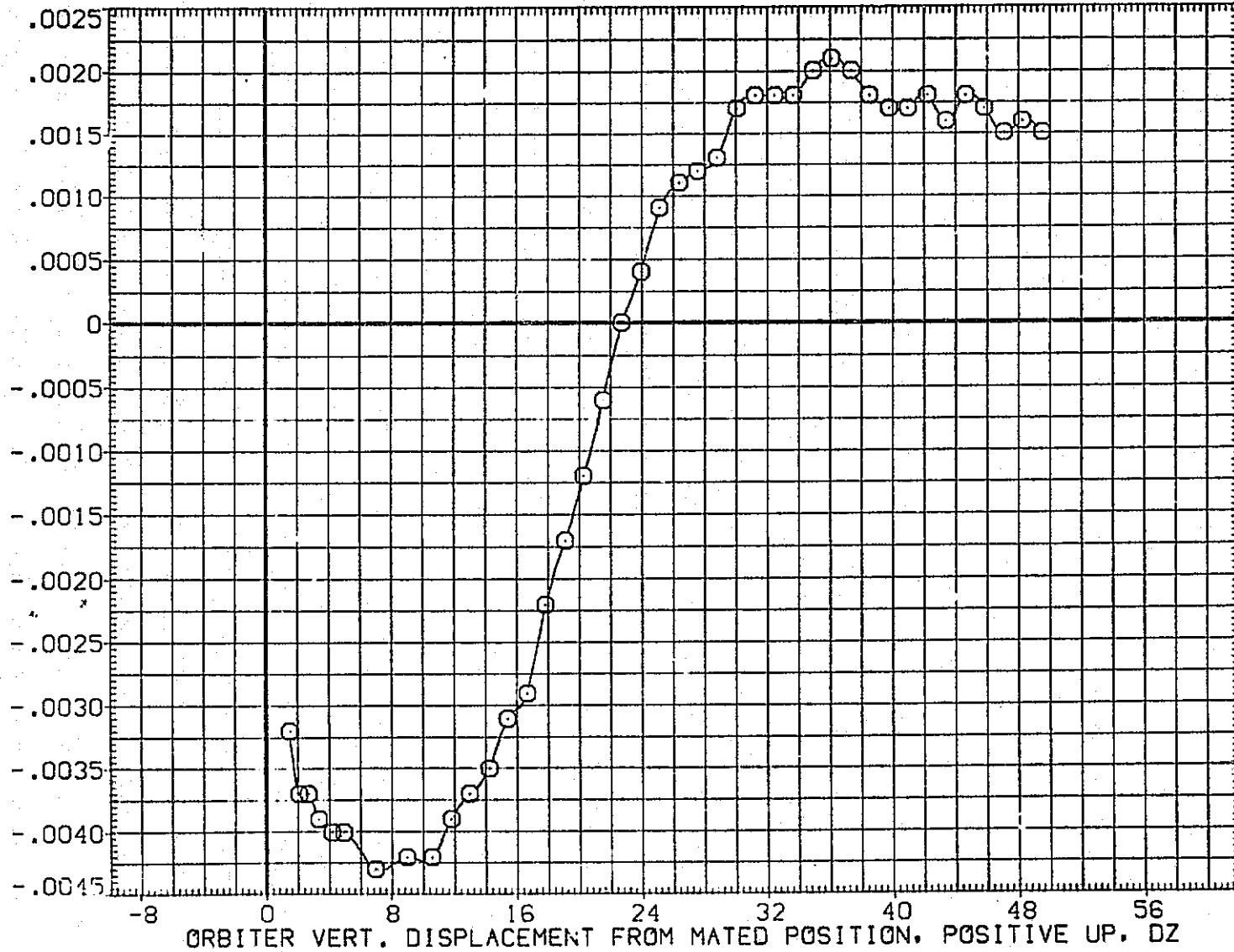


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

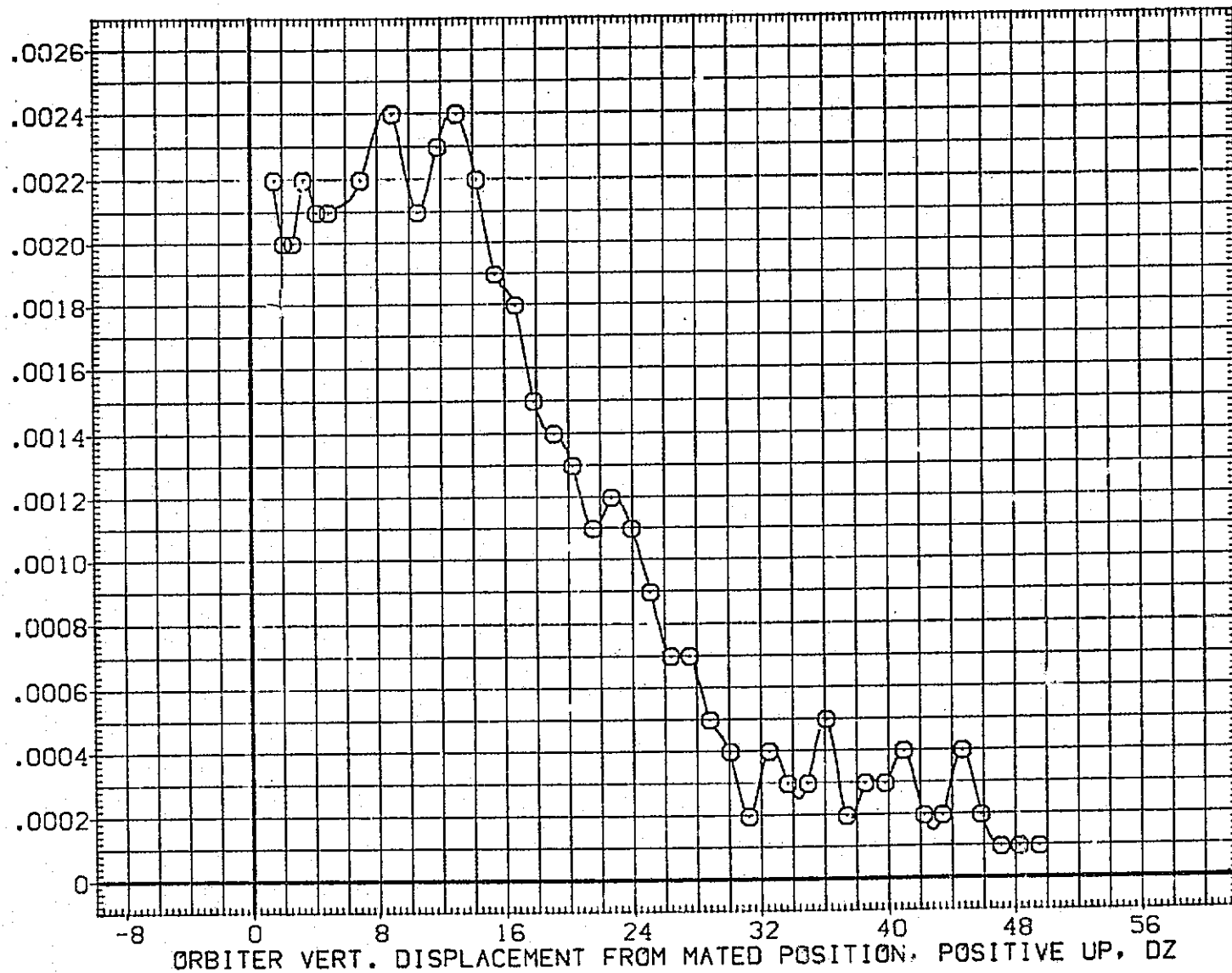


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE093)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. YC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

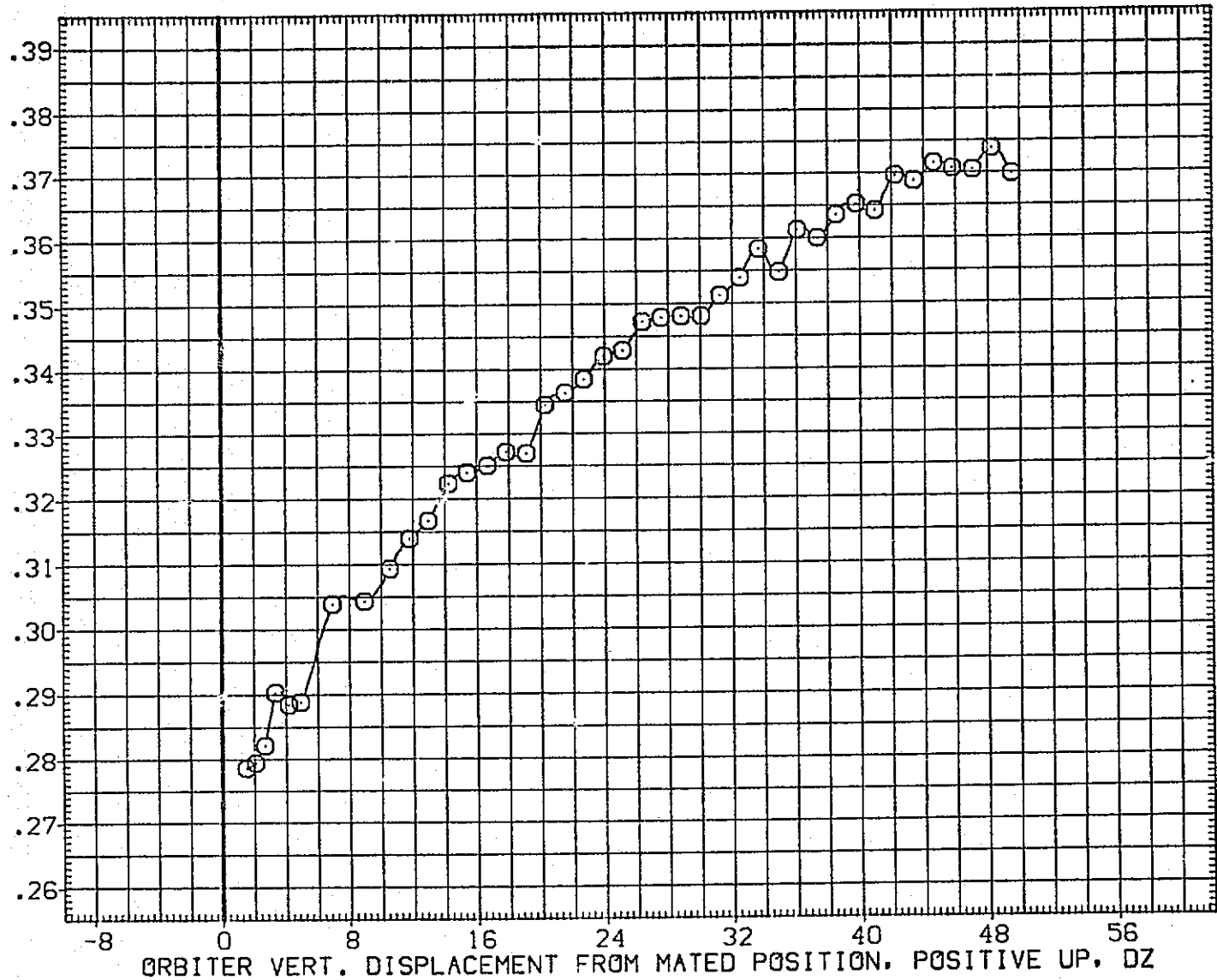


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

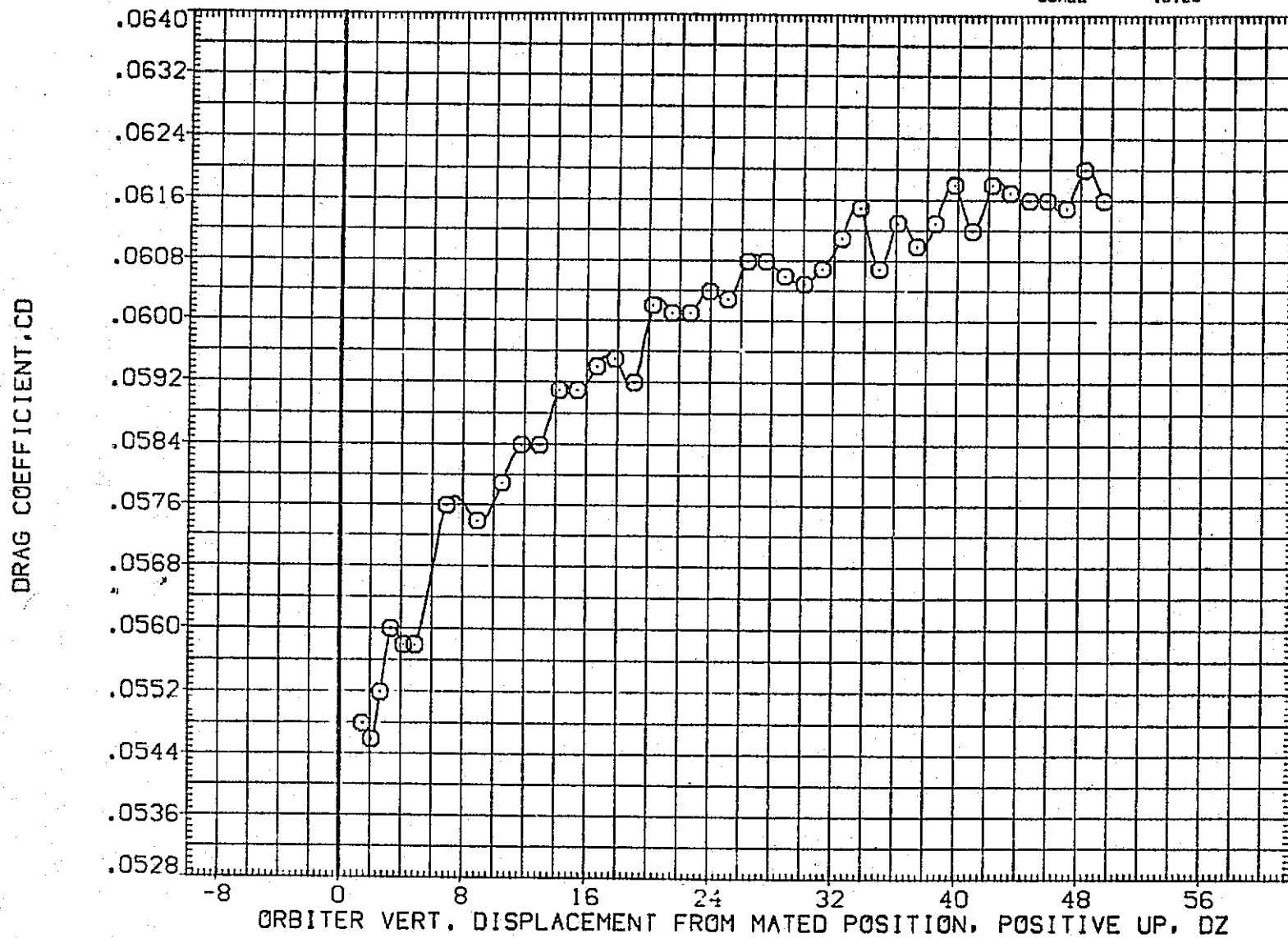


FIG.197 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=5, RFE093

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE094)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	OX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

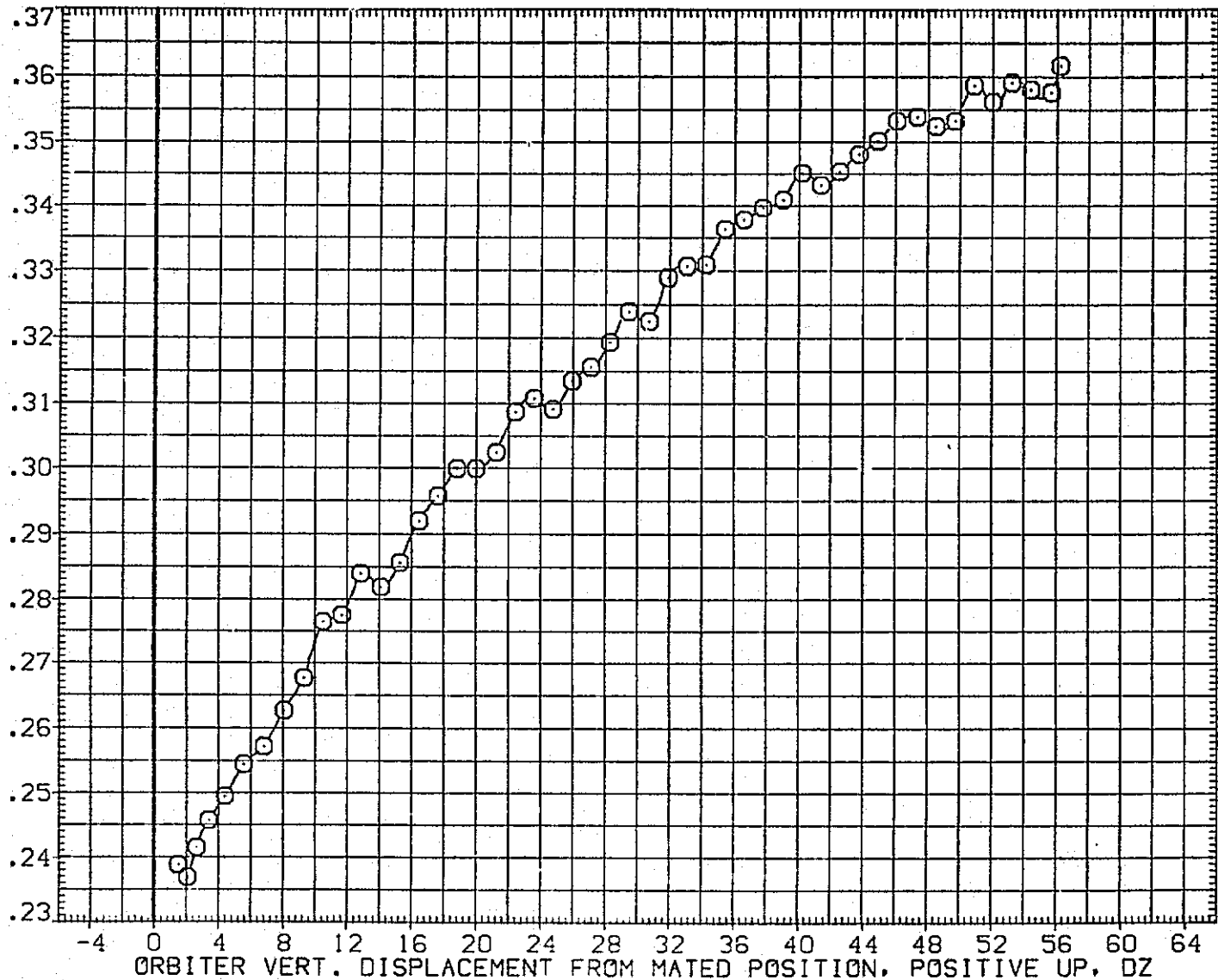


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

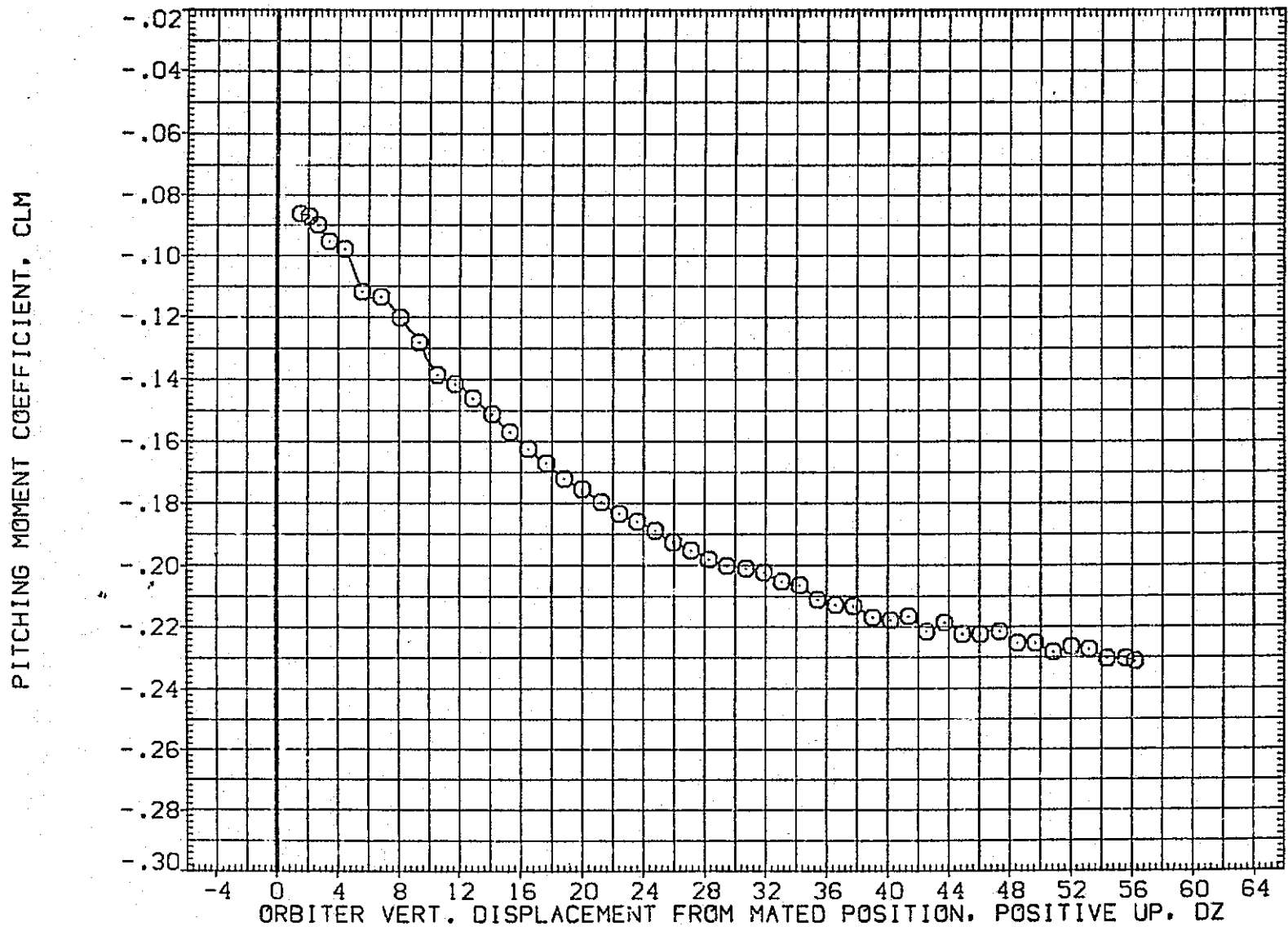


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE094)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		SDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

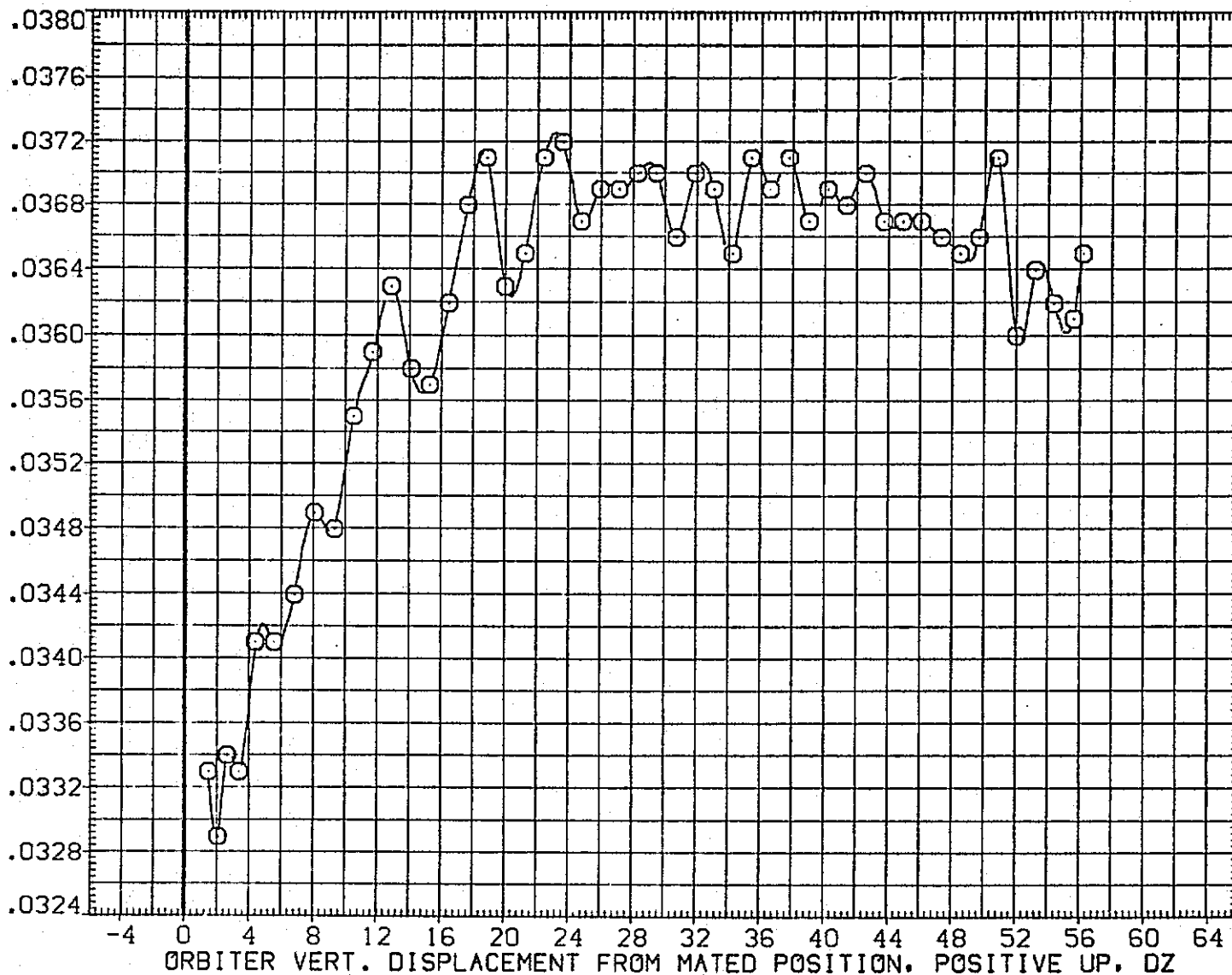


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE094)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

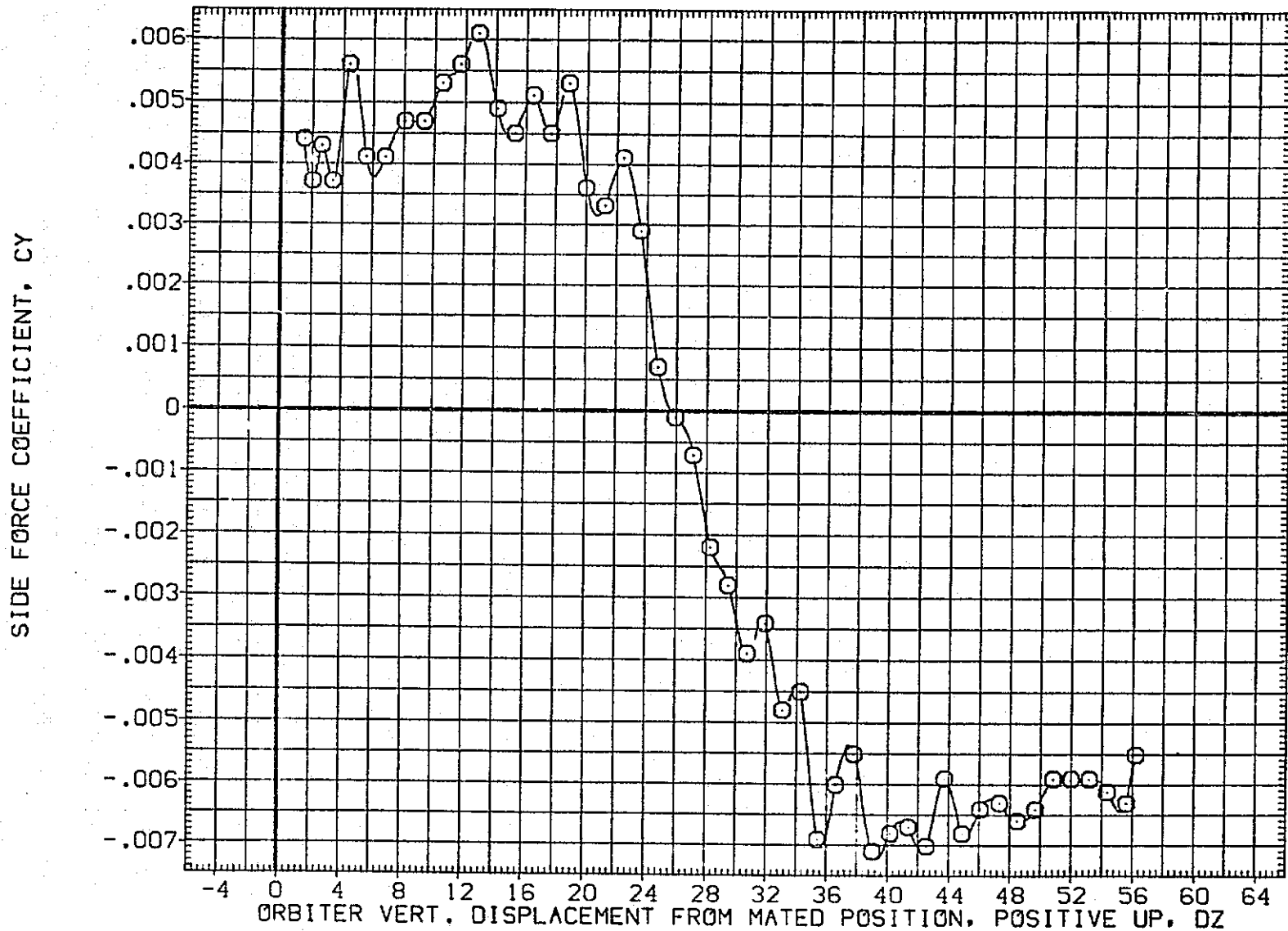


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE094)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

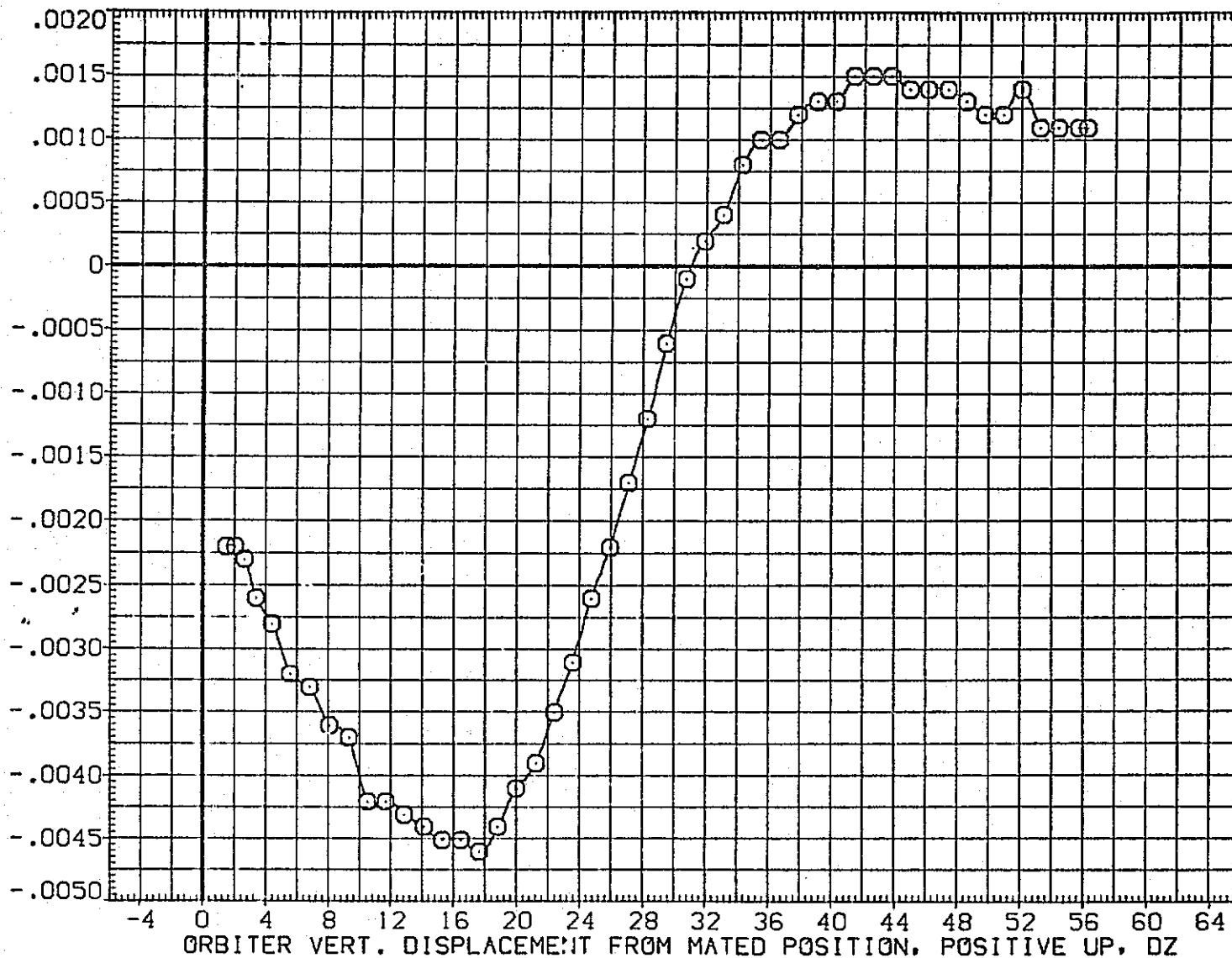


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

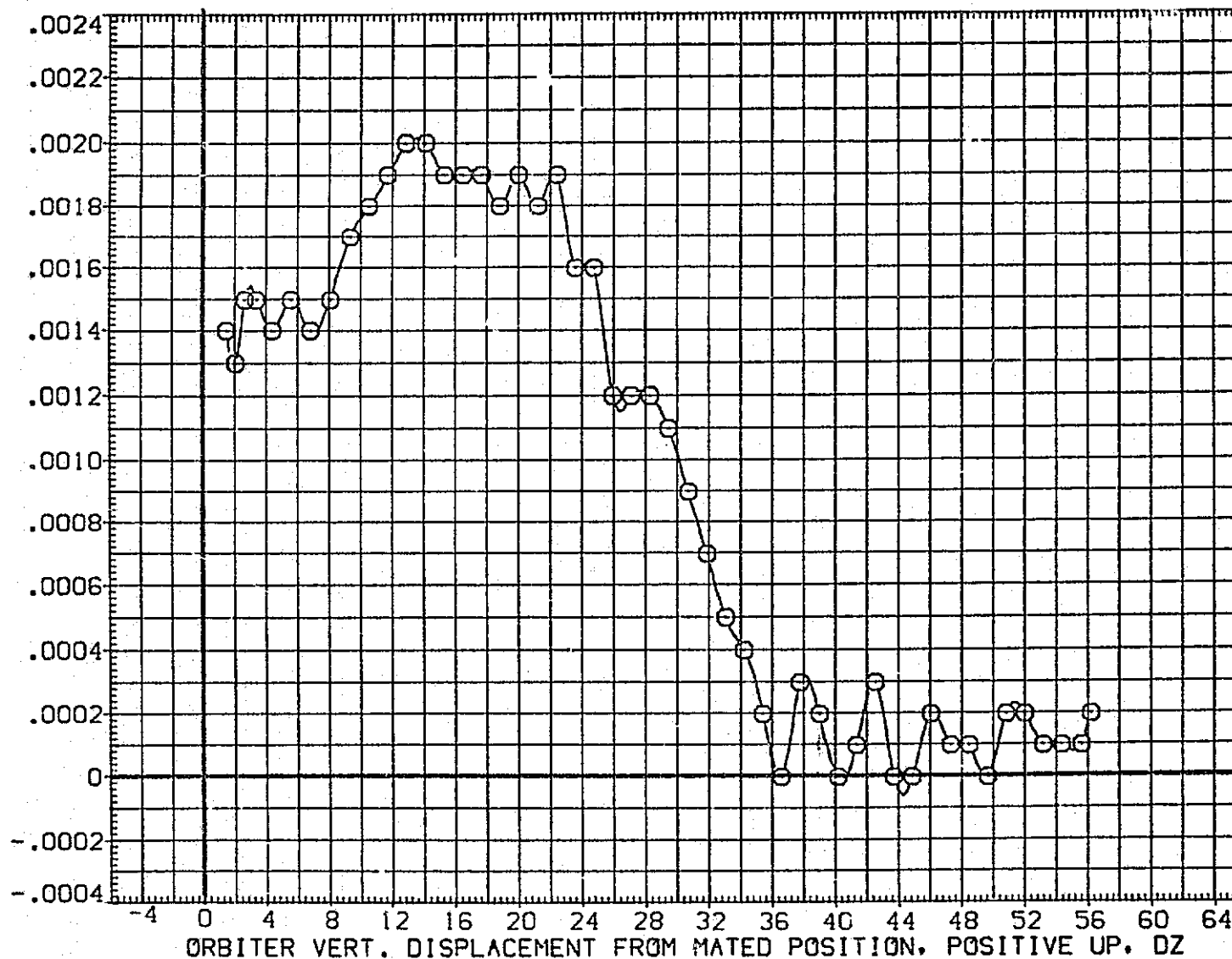


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE094)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

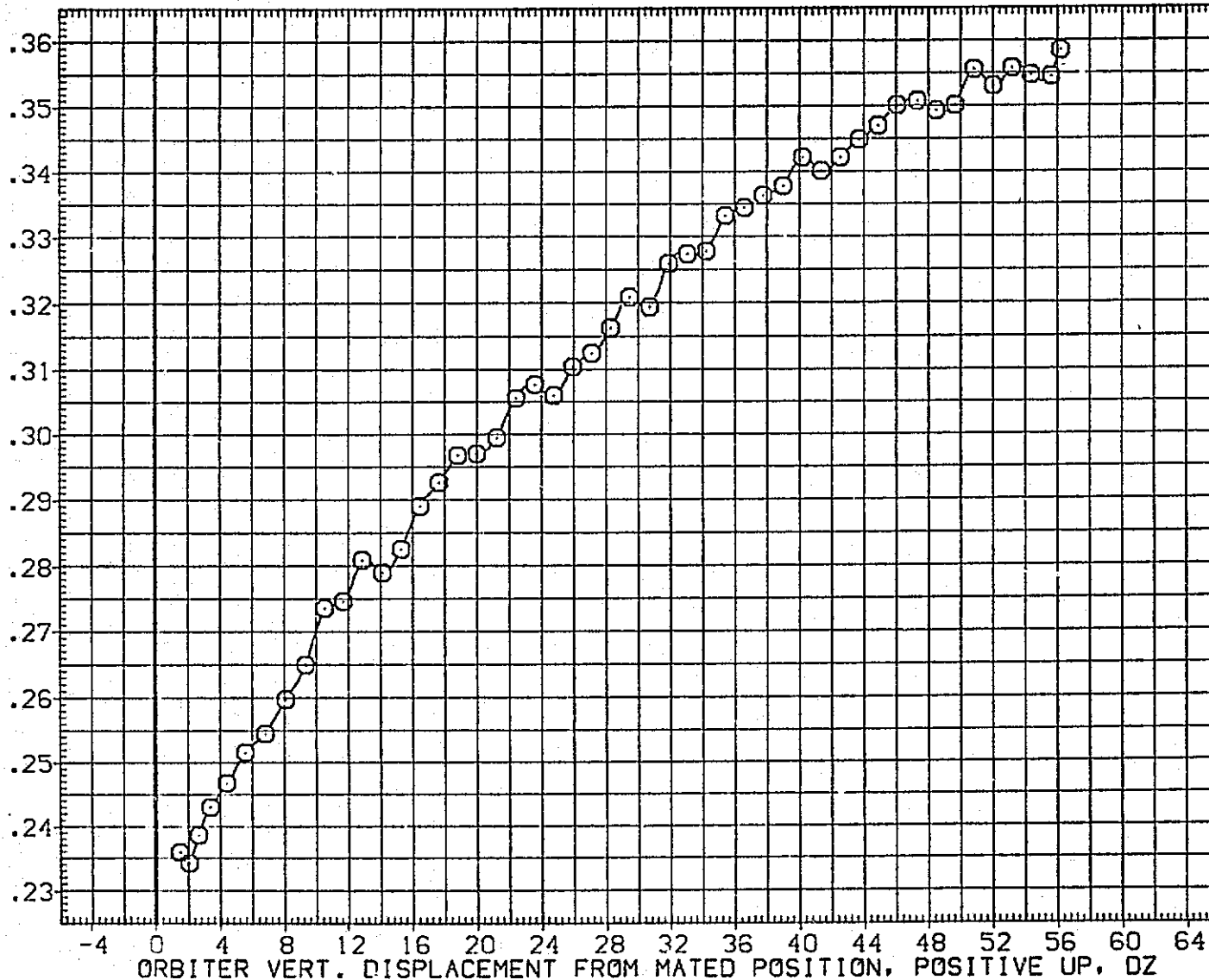


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

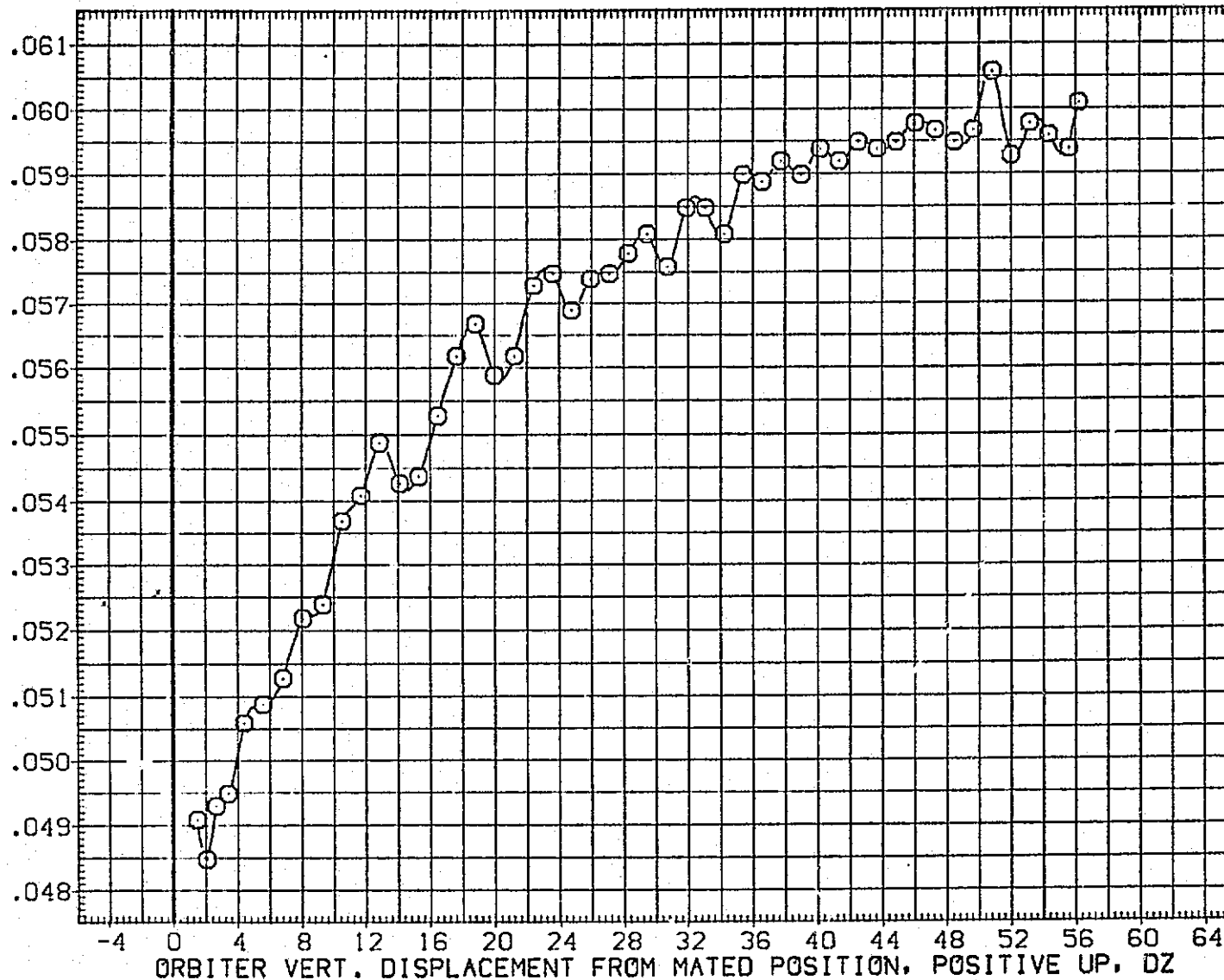


FIG.198 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=5, RFE094

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE095)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

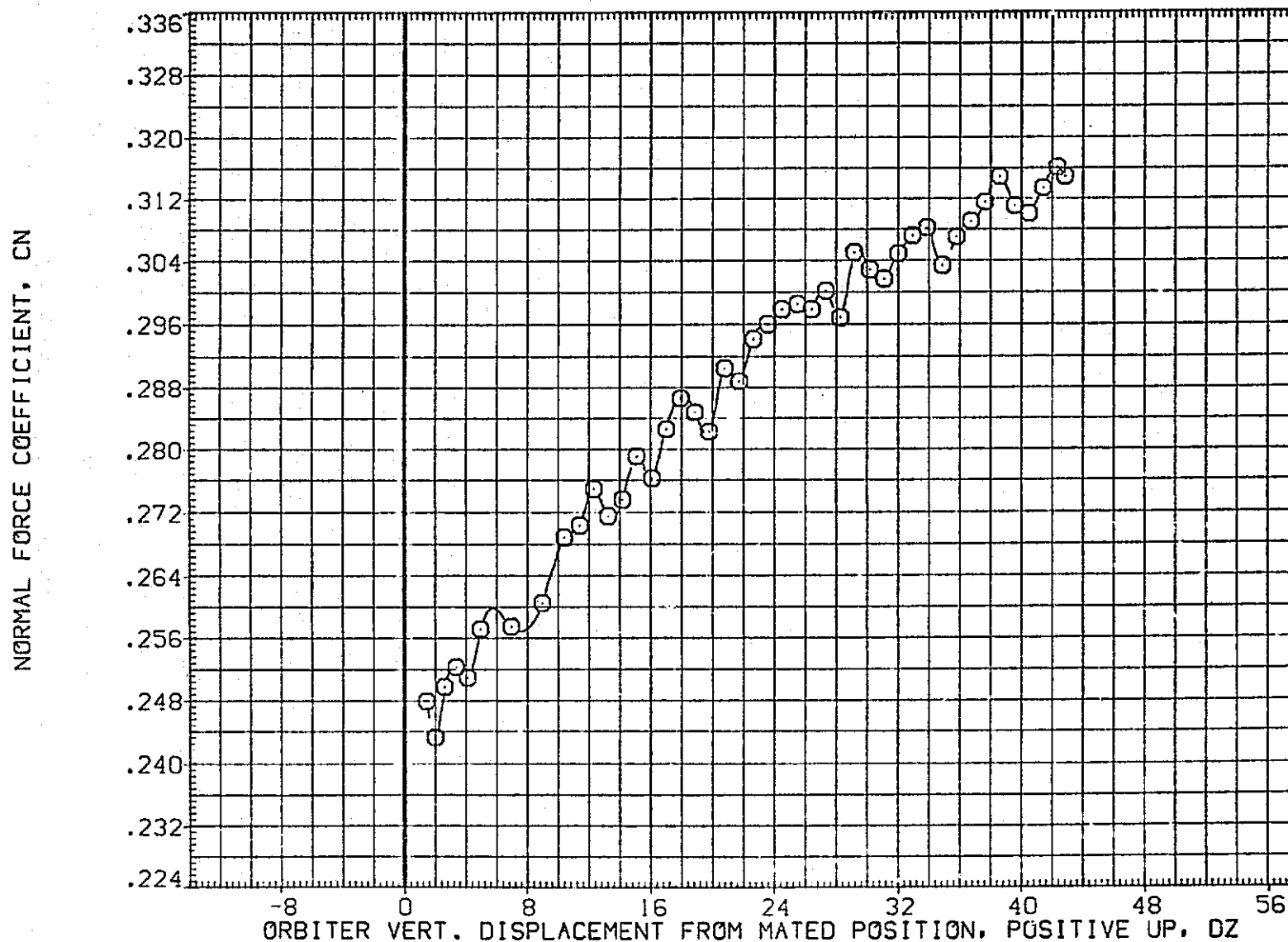


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

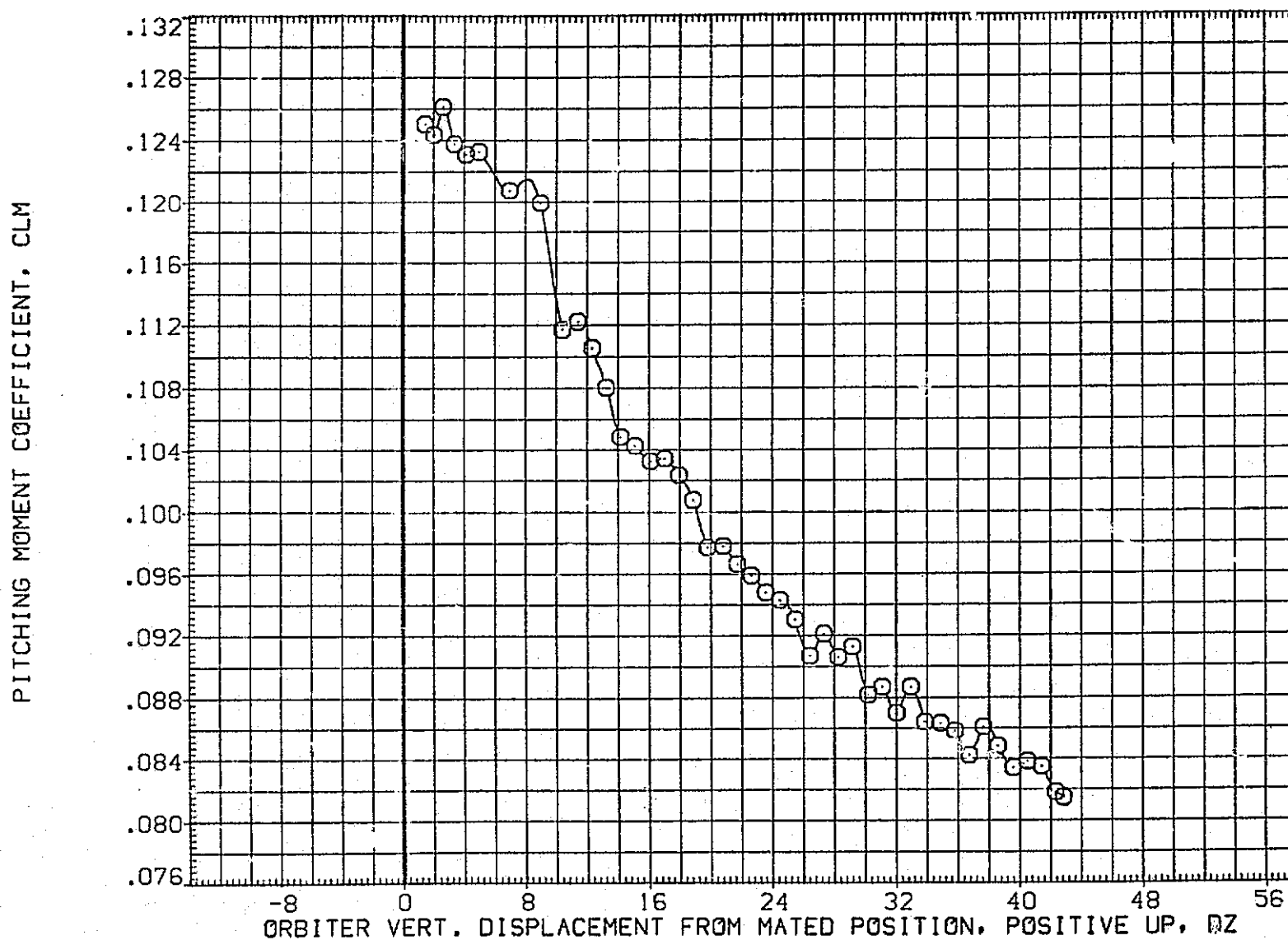


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE095)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BOFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

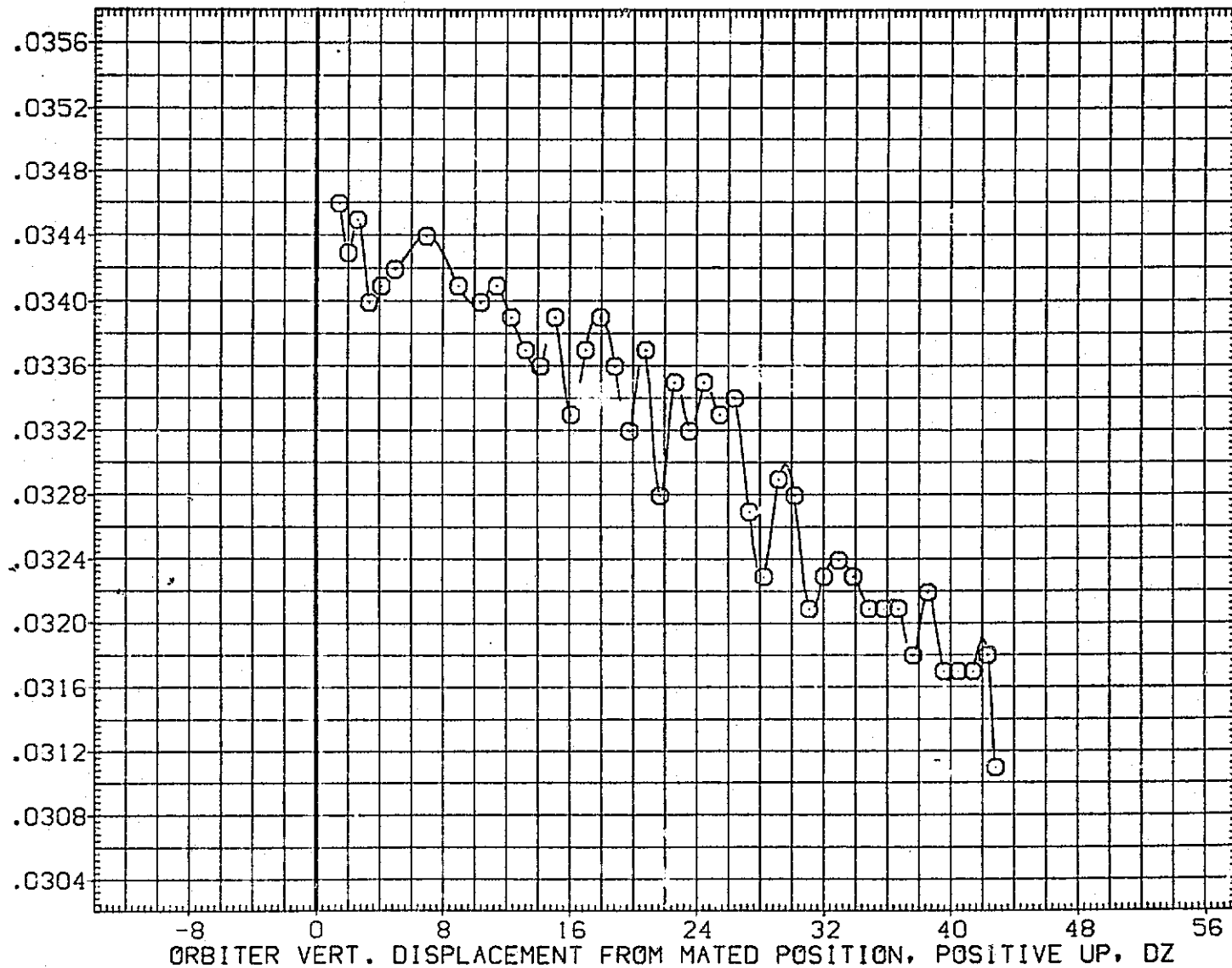


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION																
		ALPHAC	BETAC	ELEVON	DX	IORB	BETAO	RUDDER	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SO.FT.	IN.	IN.	XC	YC	ZC	
○	.597	4.000	-1.000	5.000	.000	.000	.000	4.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125	50.00	0.00	0.00	0.00	0.00	0.00

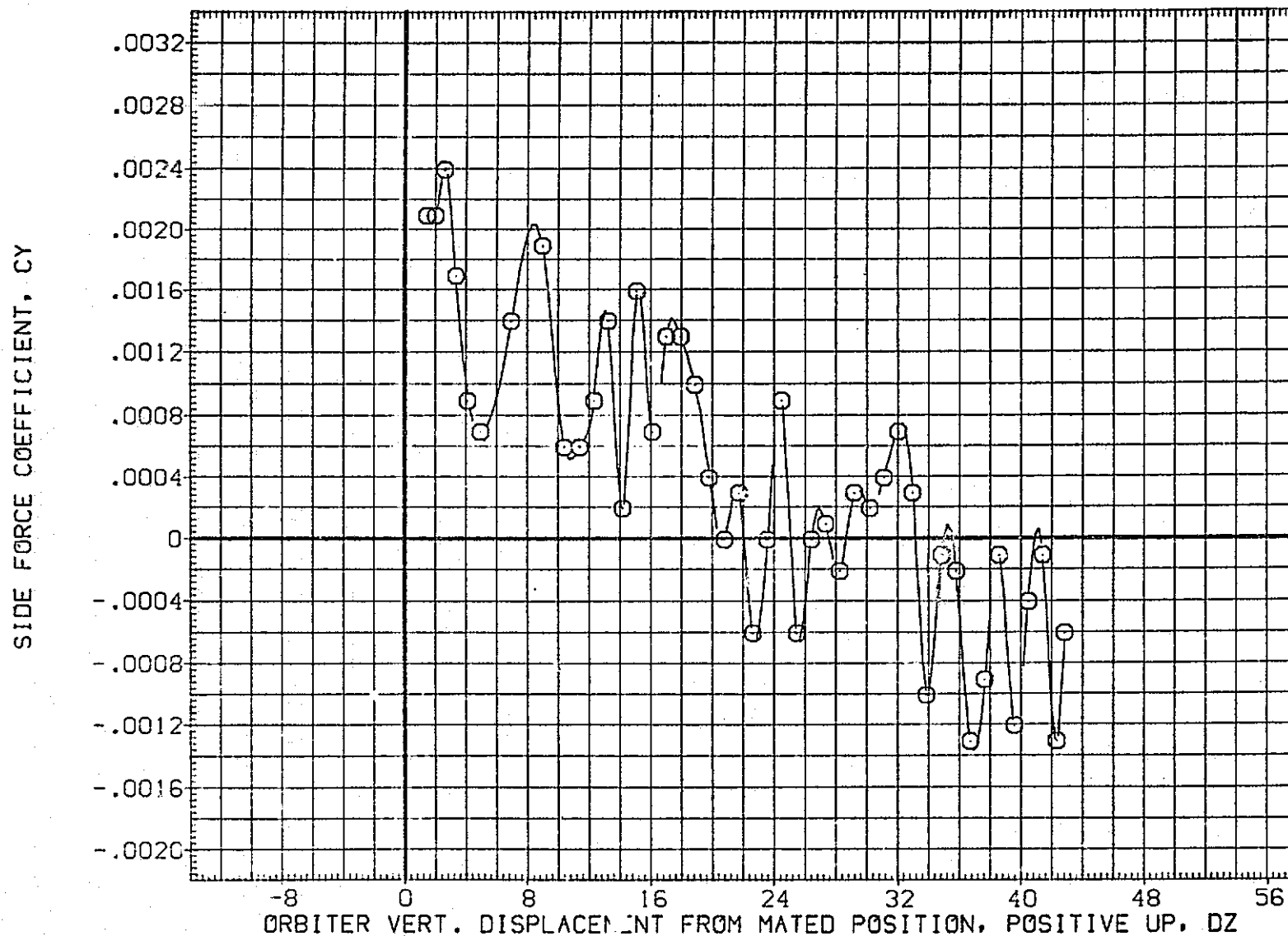


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE095)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

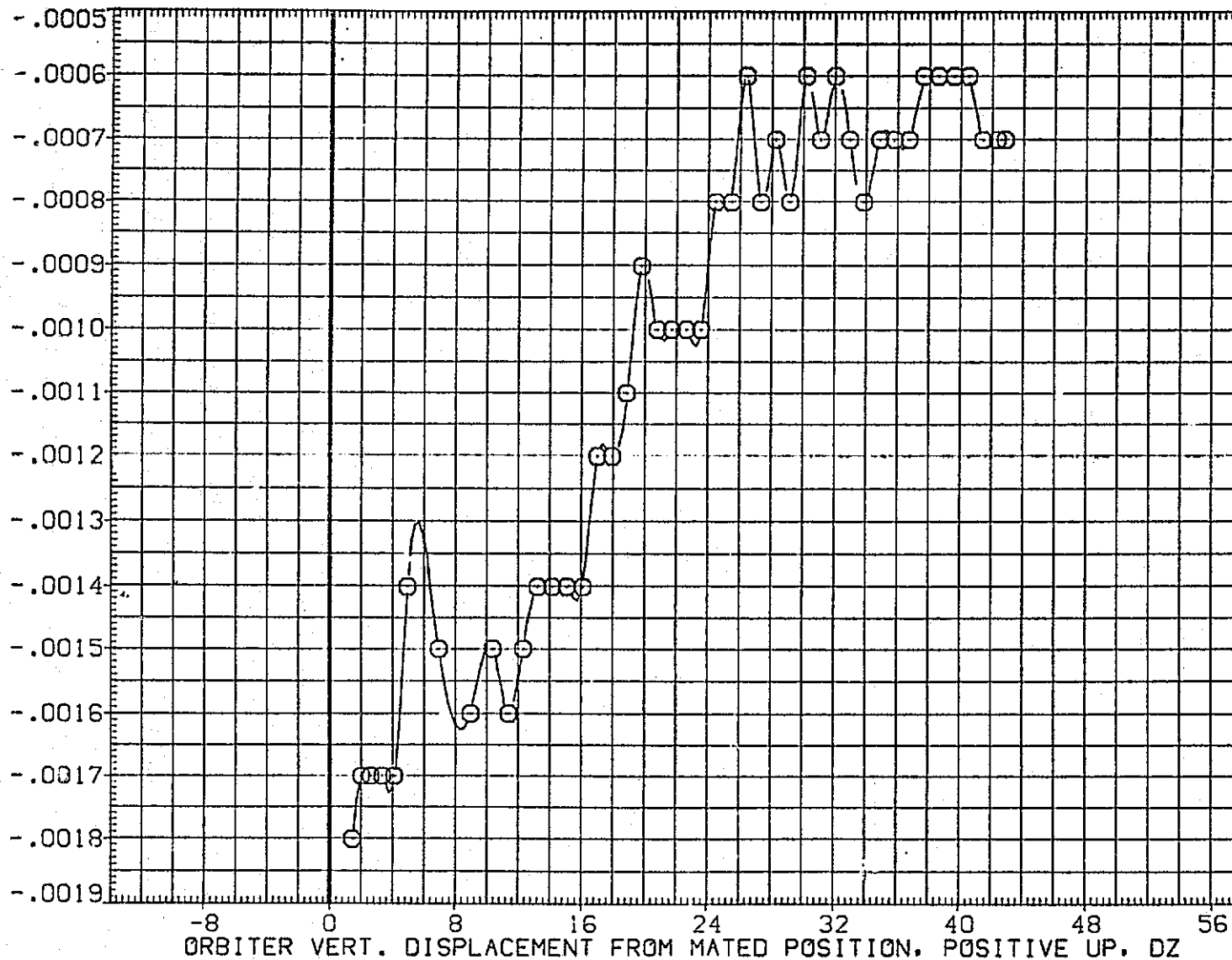


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	ELEVON	5.000	REF	327.7800	IN.
		BDFLAP	.000	DX	.000	GREF	2348.0400	IN.
		OY	.000	IORB	4.000	XMMP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMMP	.0000	IN. YC
						ZMMP	190.7500	IN. ZC
						SCALE	.0125	

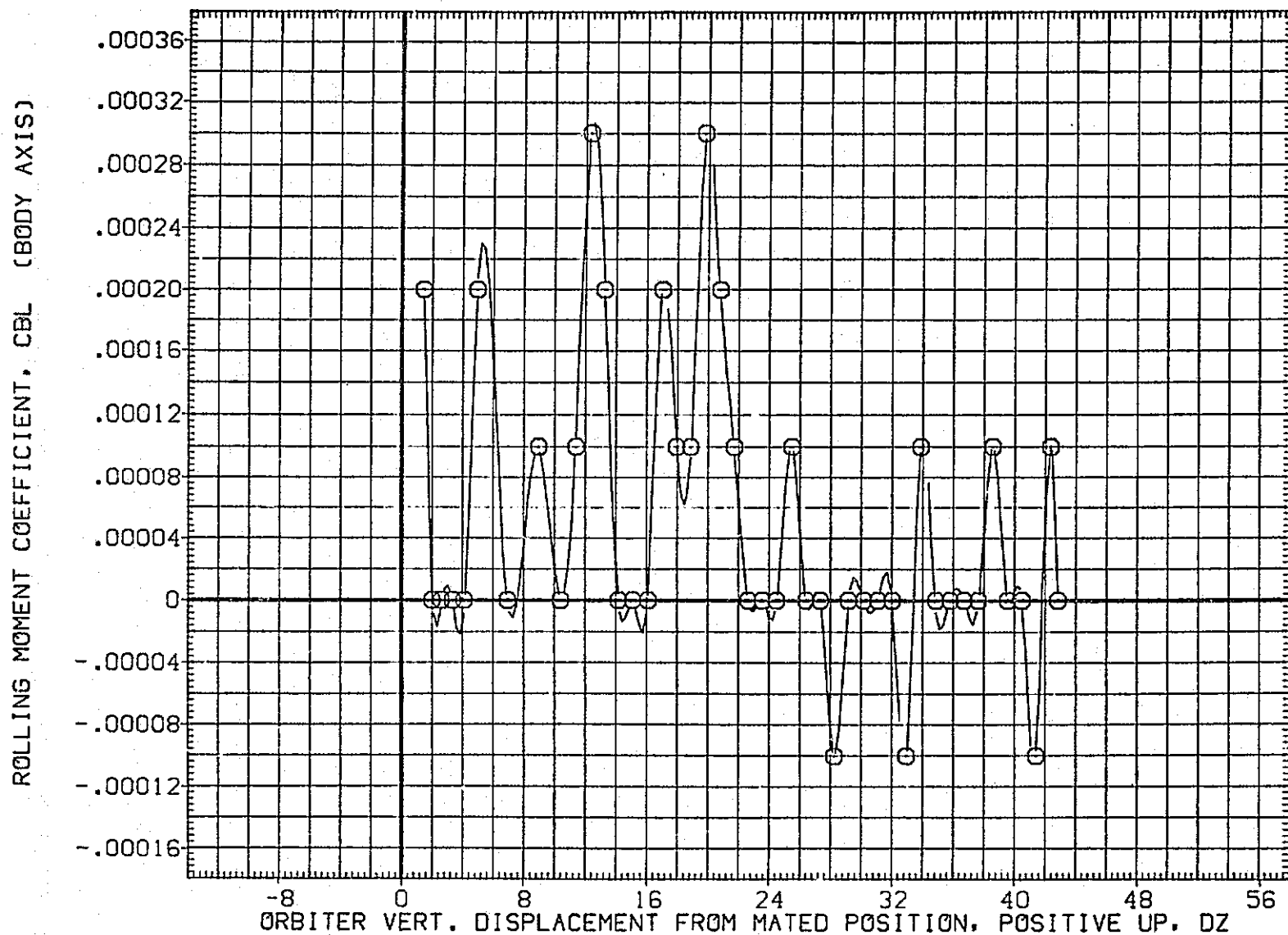


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE095)

SYMBOL
○

MACH
.597

PARAMETRIC VALUES			
ALPHAC	4.000	BETAC	.000
STAB	-1.000	ELEVON	3.000
BDFLAP	.000	DX	.000
DY	.000	IORB	4.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

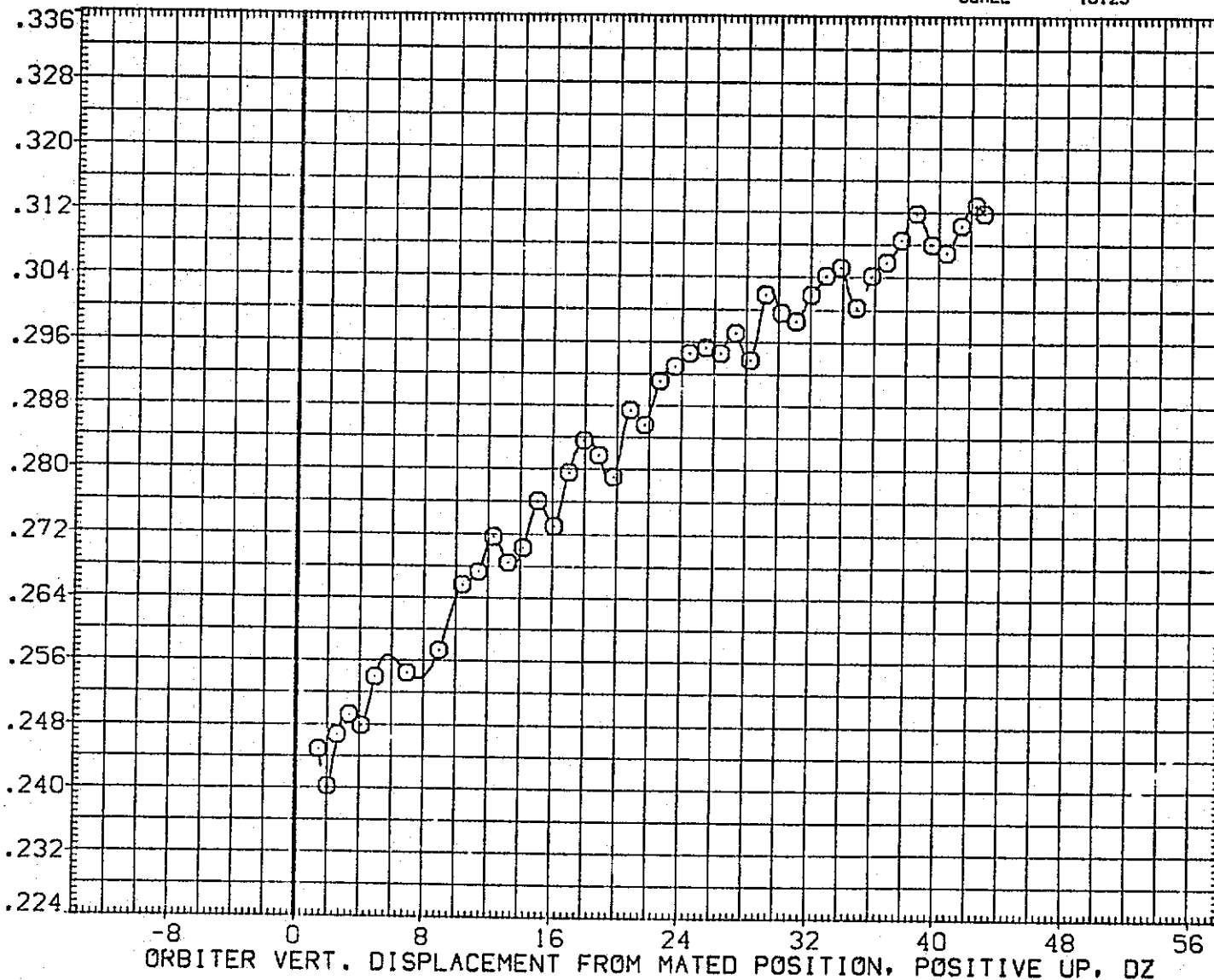


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.597	4.000	.000	5.000	.000	5500.0000	327.7800	IN.
		-1.000	.000	.000	.000	2348.0400	1339.9000	IN.
		.000	.000	4.000	.000	.0000	190.7500	IN. XC
		.000	.000	.000	.000	.0125		IN. YC
								IN. ZC

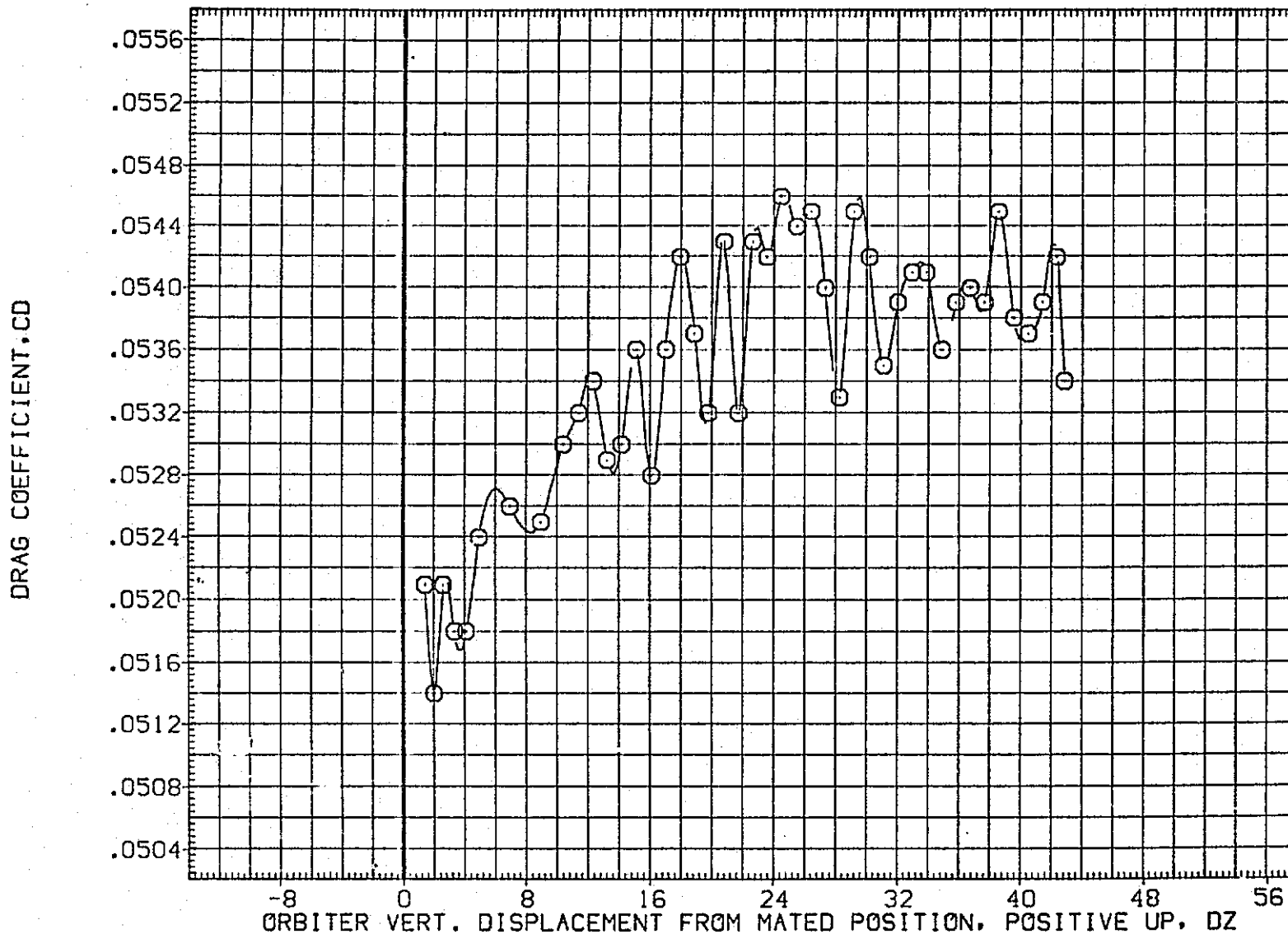


FIG.199 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE095

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE096)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		ALPHAC	BETAC	ELEVON	DX	SREF	LREF	BREF	SO.FT.
○	.597	4.000	.000	5.000	.000	5500.0000	327.7800	2348.0400	IN.
		-1.000						1339.9000	IN. XC
		.000						.0000	IN. YC
		.000						190.7500	IN. ZC
		.000						.0125	
		BETA0	.000	RUDDER	.000				

NORMAL FORCE COEFFICIENT, CN

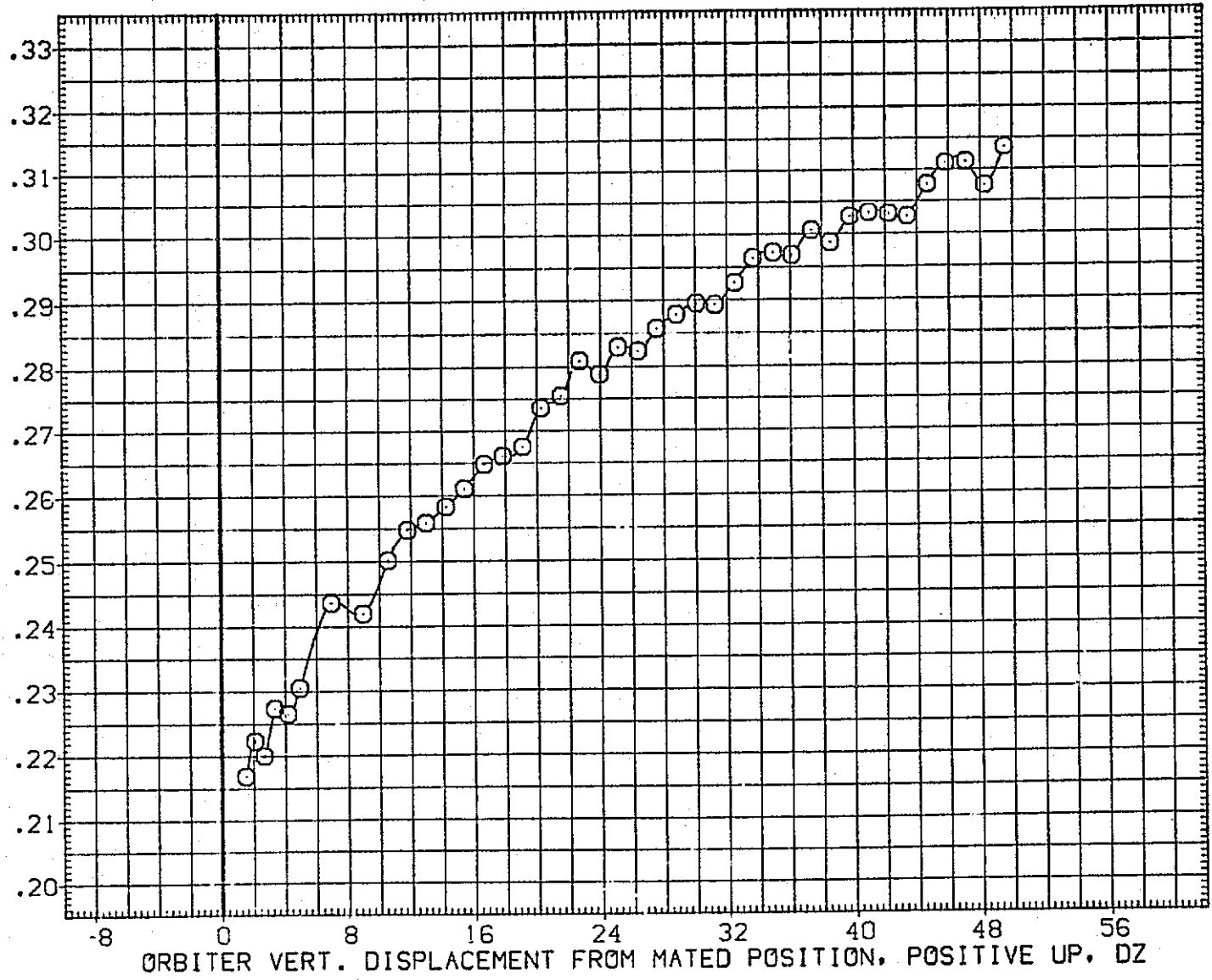


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

SYMBOL
○

MACH	PARAMETRIC VALUES			
.597	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XHRP	1339.9000	IN. XC
YHRP	.0000	IN. YC
ZHRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

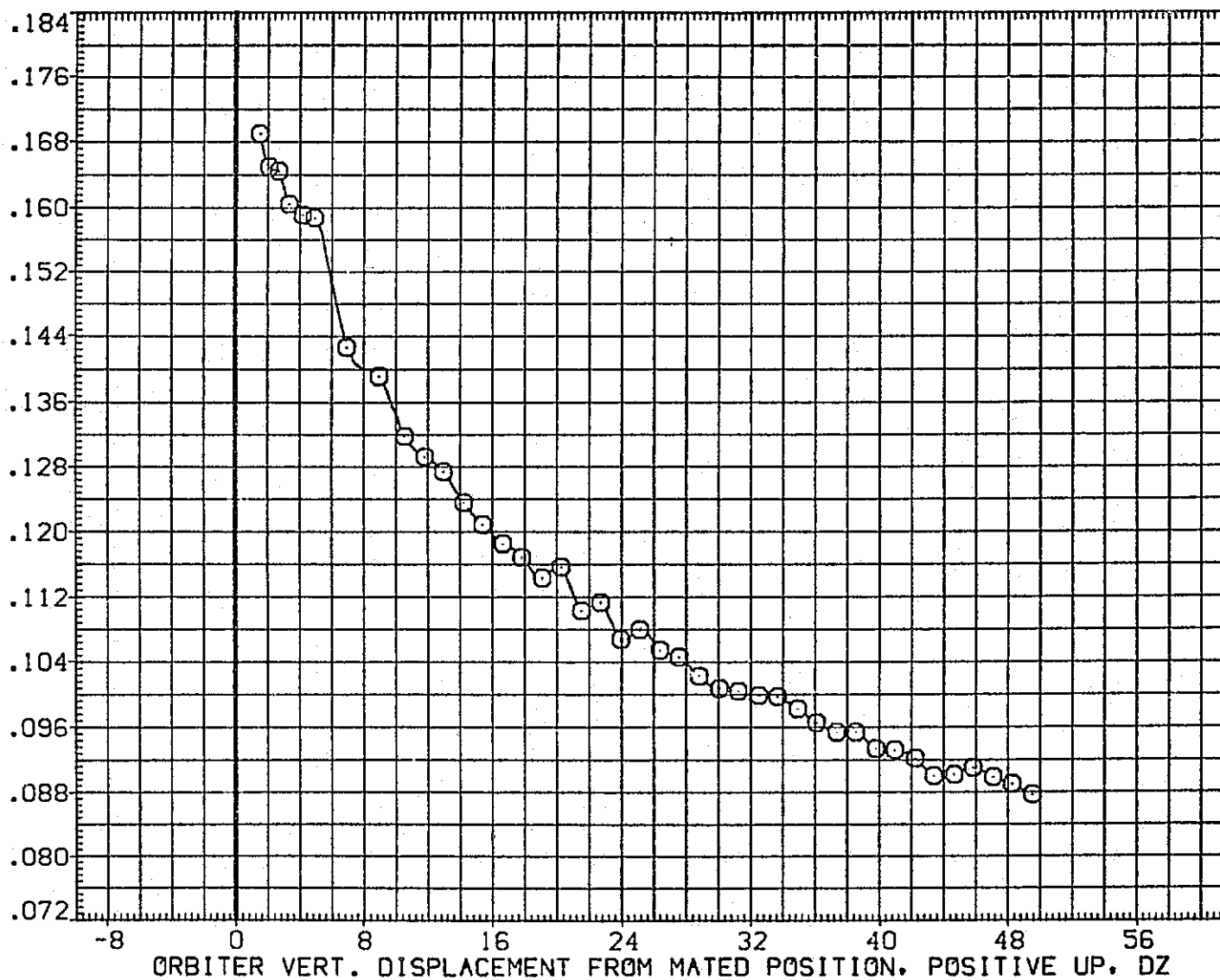


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE096)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	-1.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

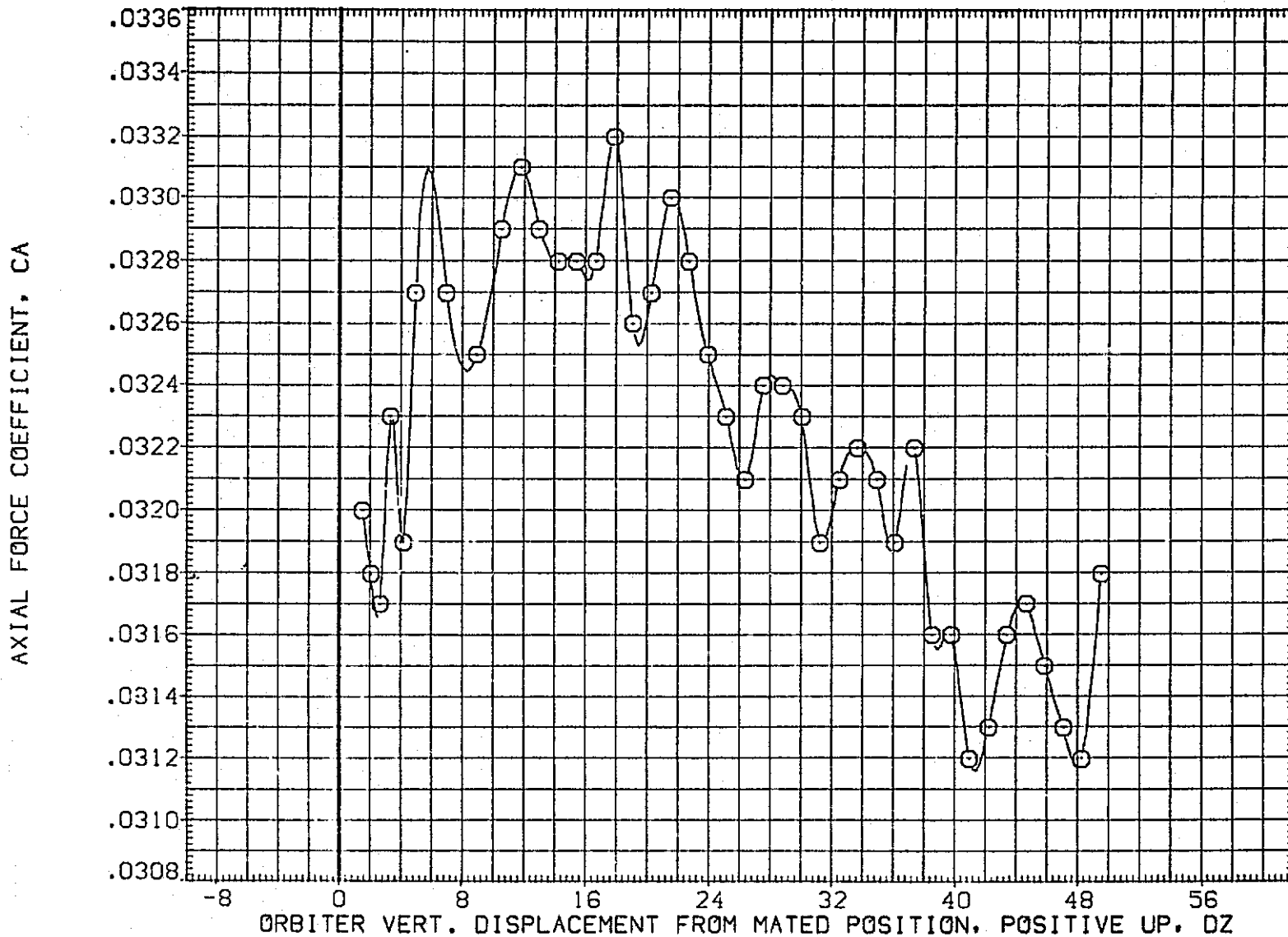


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

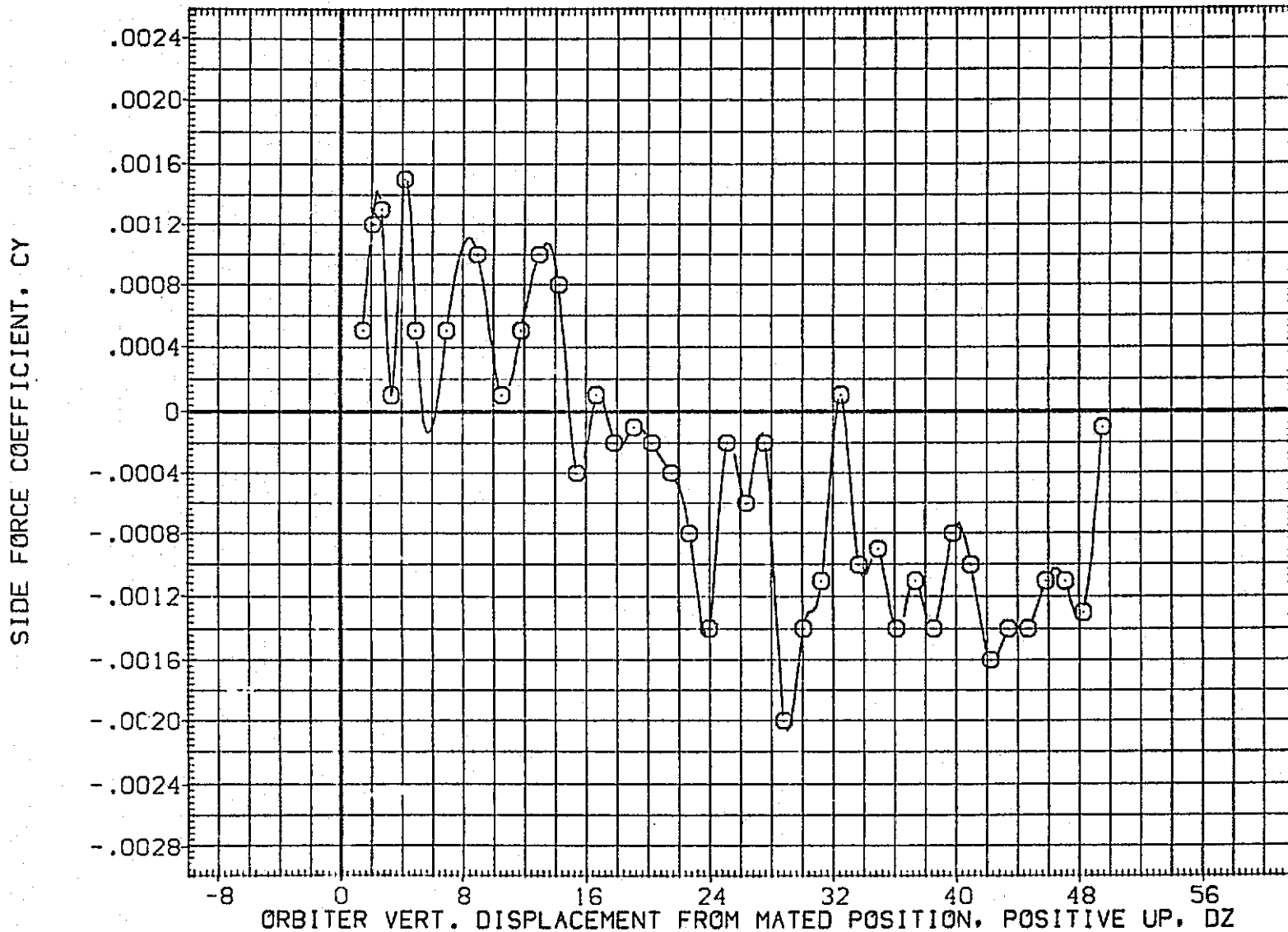


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE096)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	ORX	SREF	IN.	SO.FT.
○	.597	4.000	.000	5.000	.000	5500.0000	IN.	327.7800
		-1.000	.000	.000	.000	2348.0400	IN.	1339.9000
		.000	.000	6.000	.000	.0000	IN.	190.7500
		.000	.000	.000	.000	.0125	IN.	

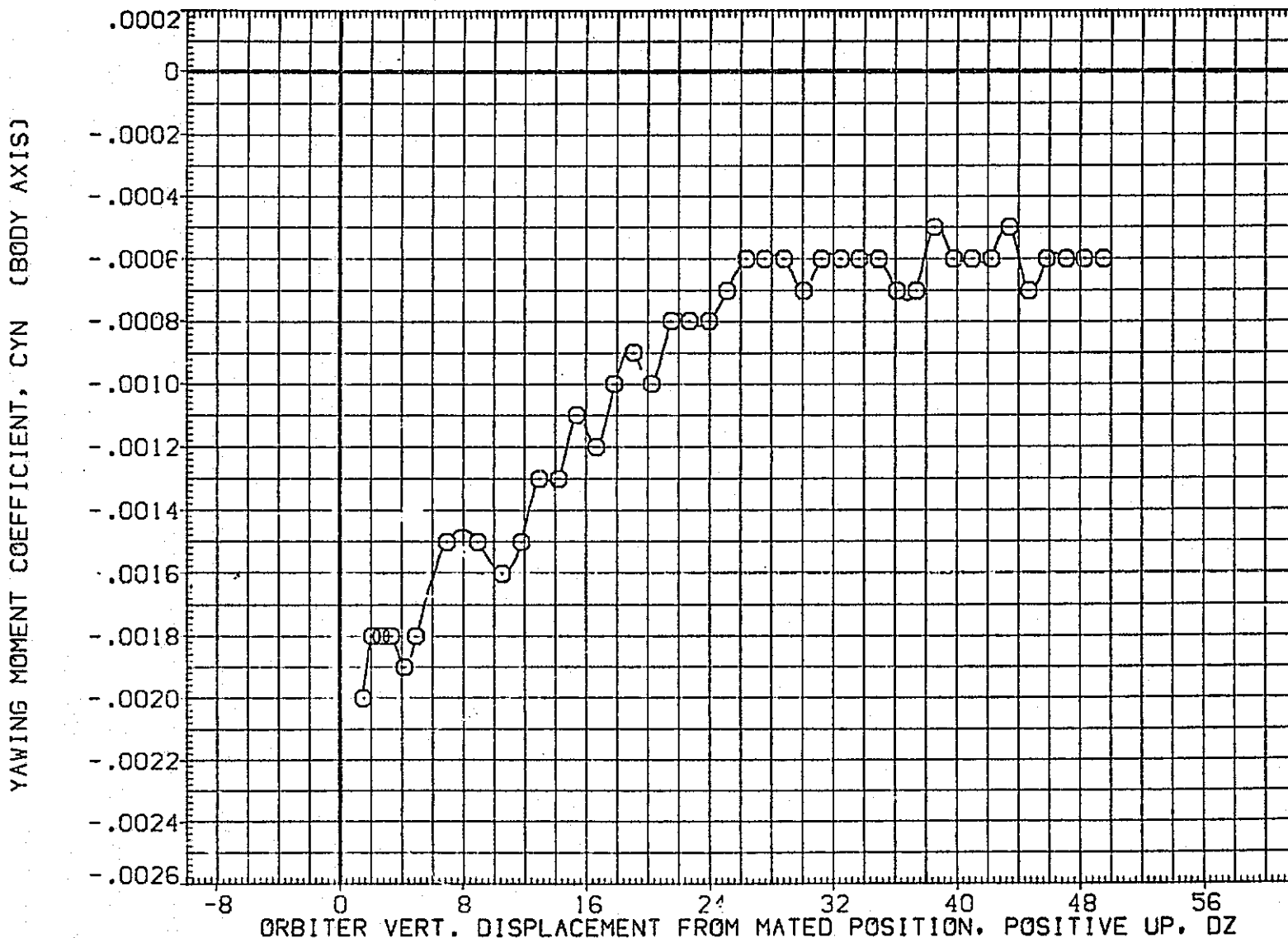


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

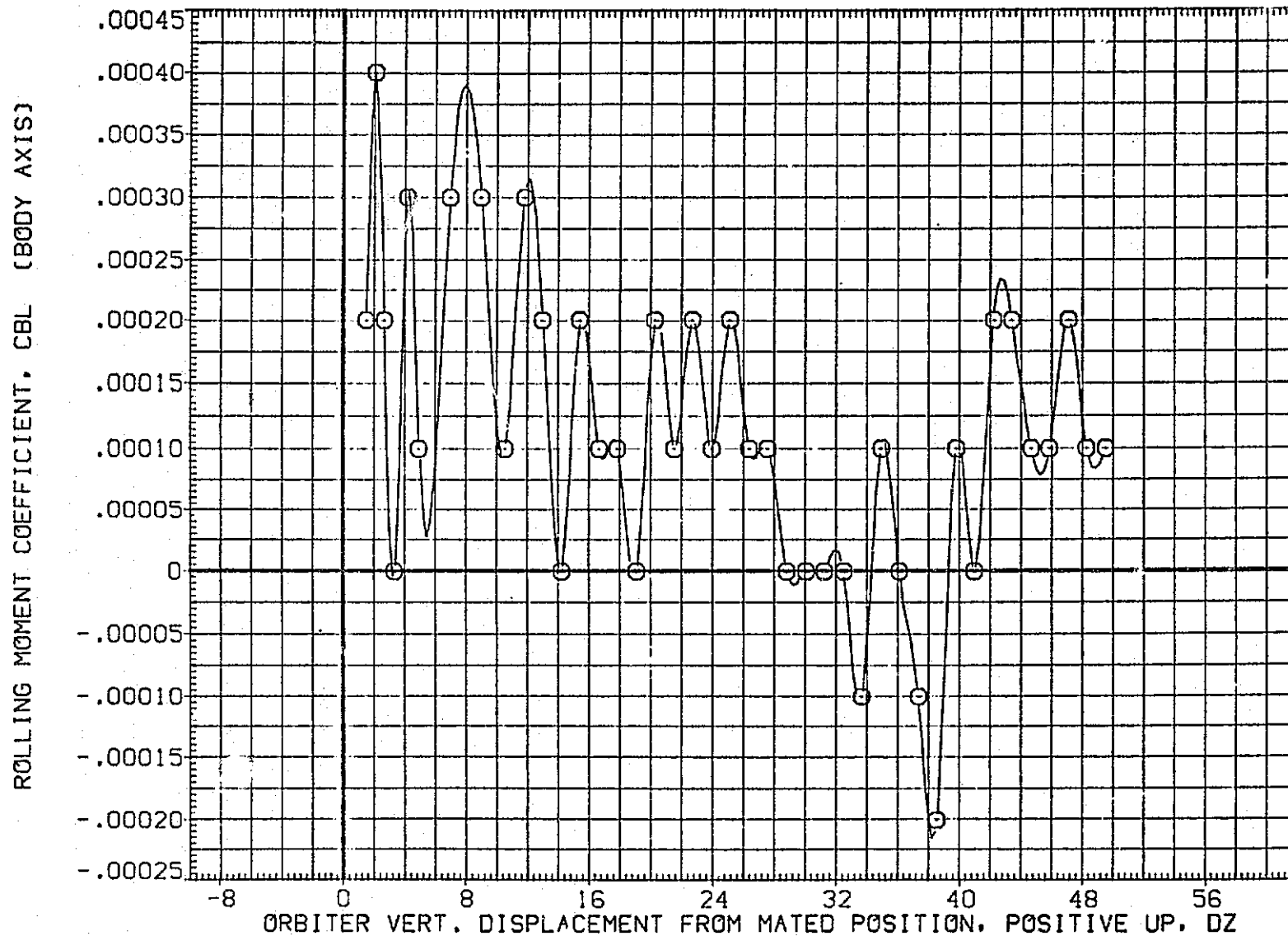


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE096)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.597	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BDFLAP	.000	D _x	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

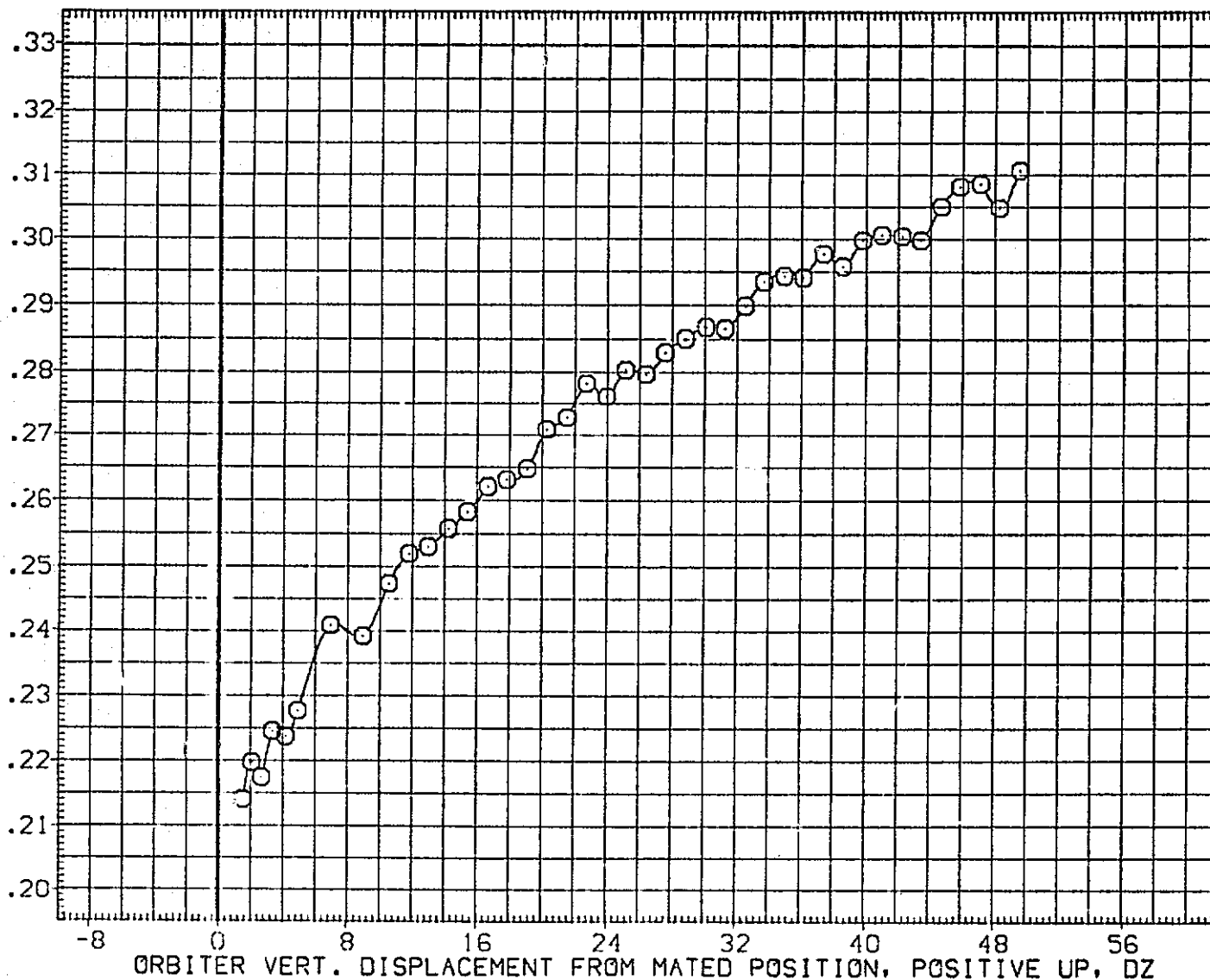


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

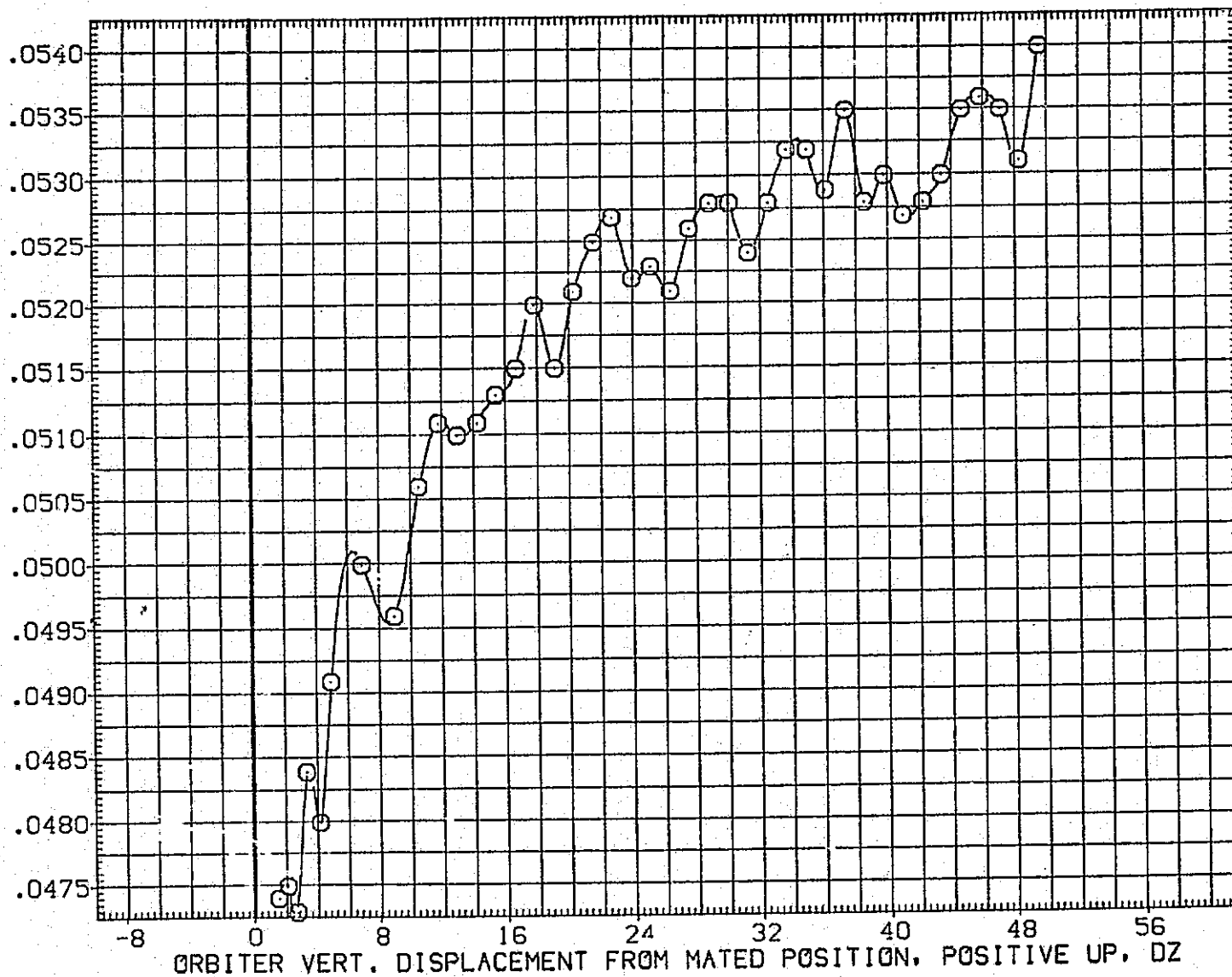


FIG.200 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE096

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE097)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BOFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

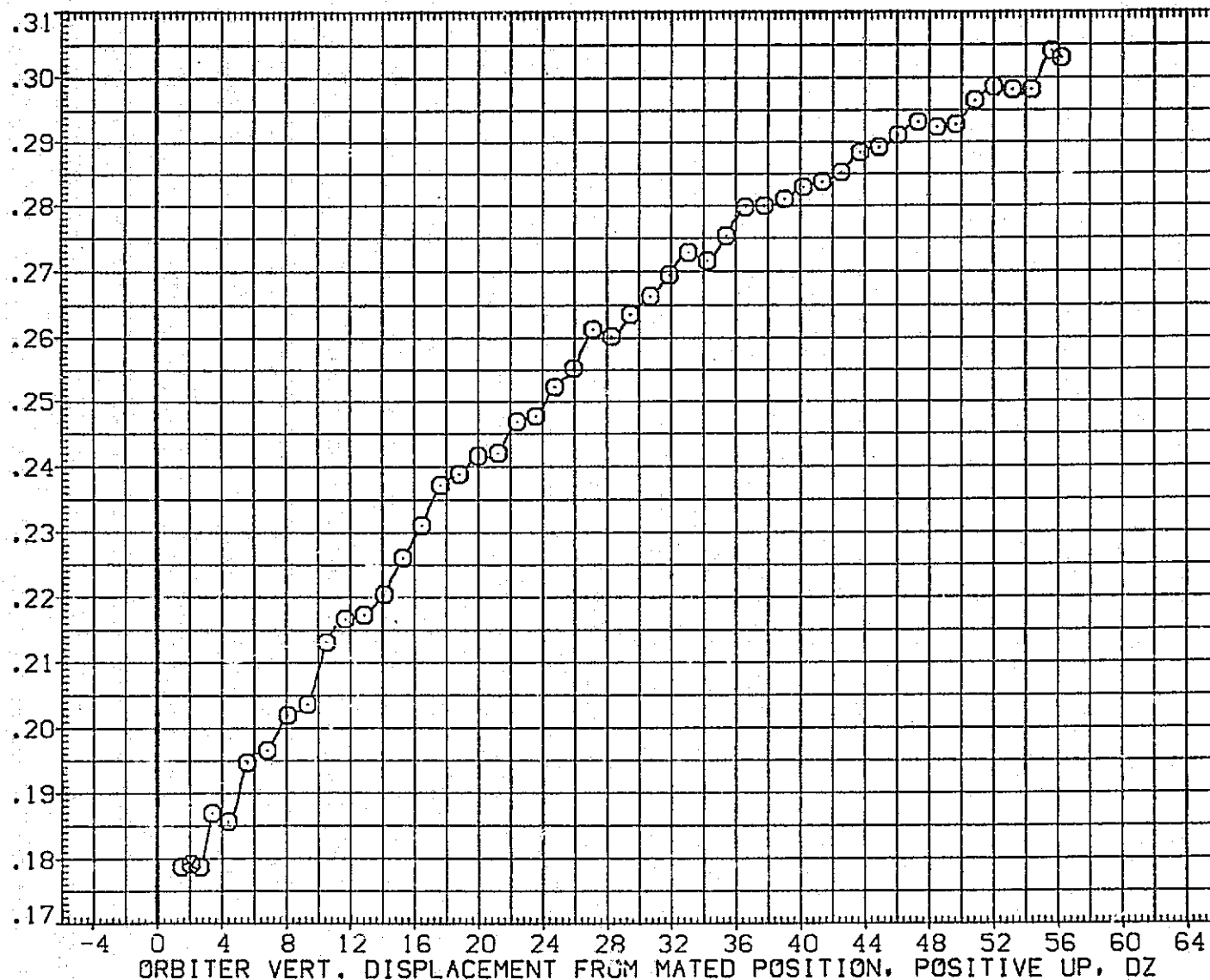


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

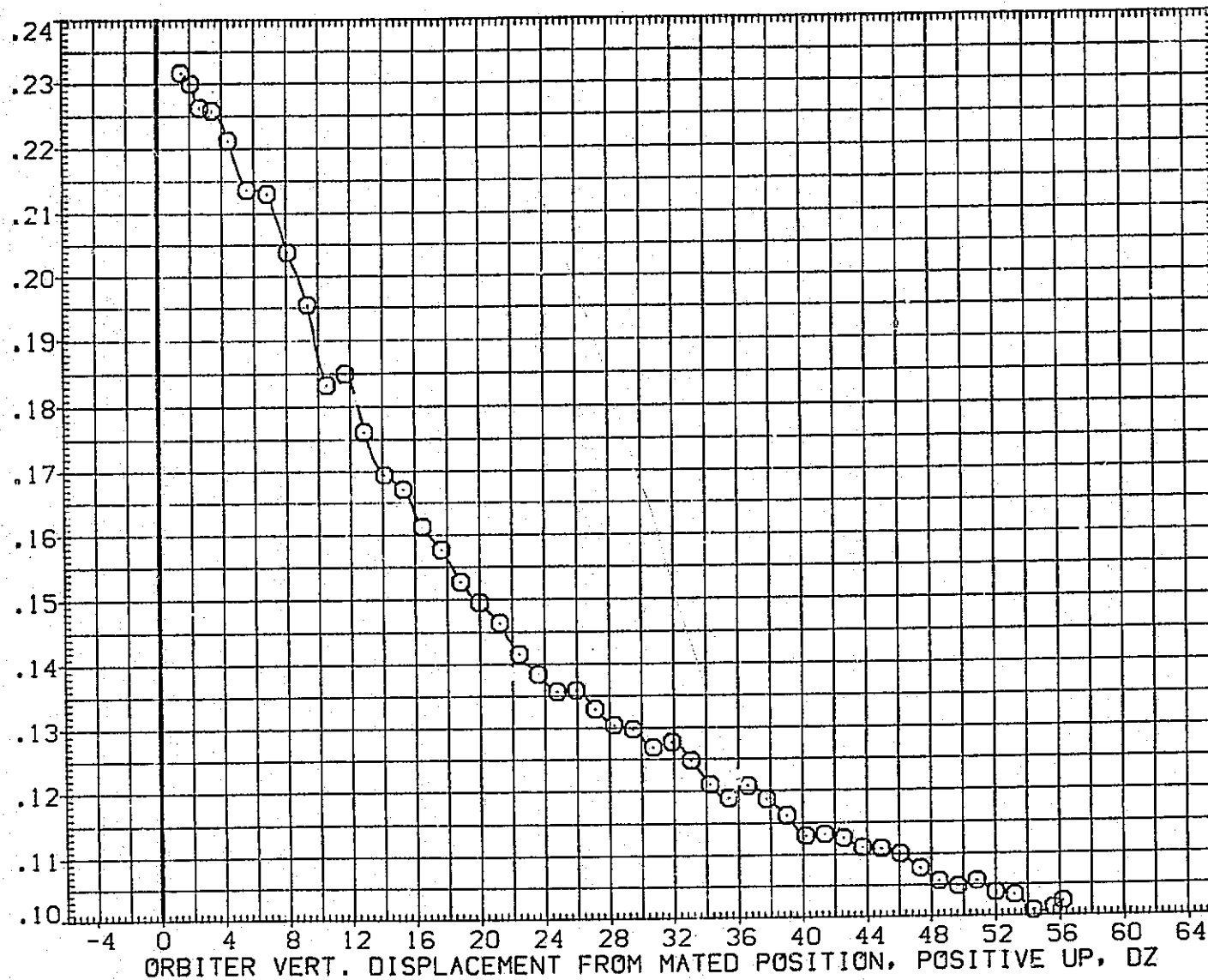


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE097)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.594	ALPHAC	4.000	BETAC	.000
		STAB	-1.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

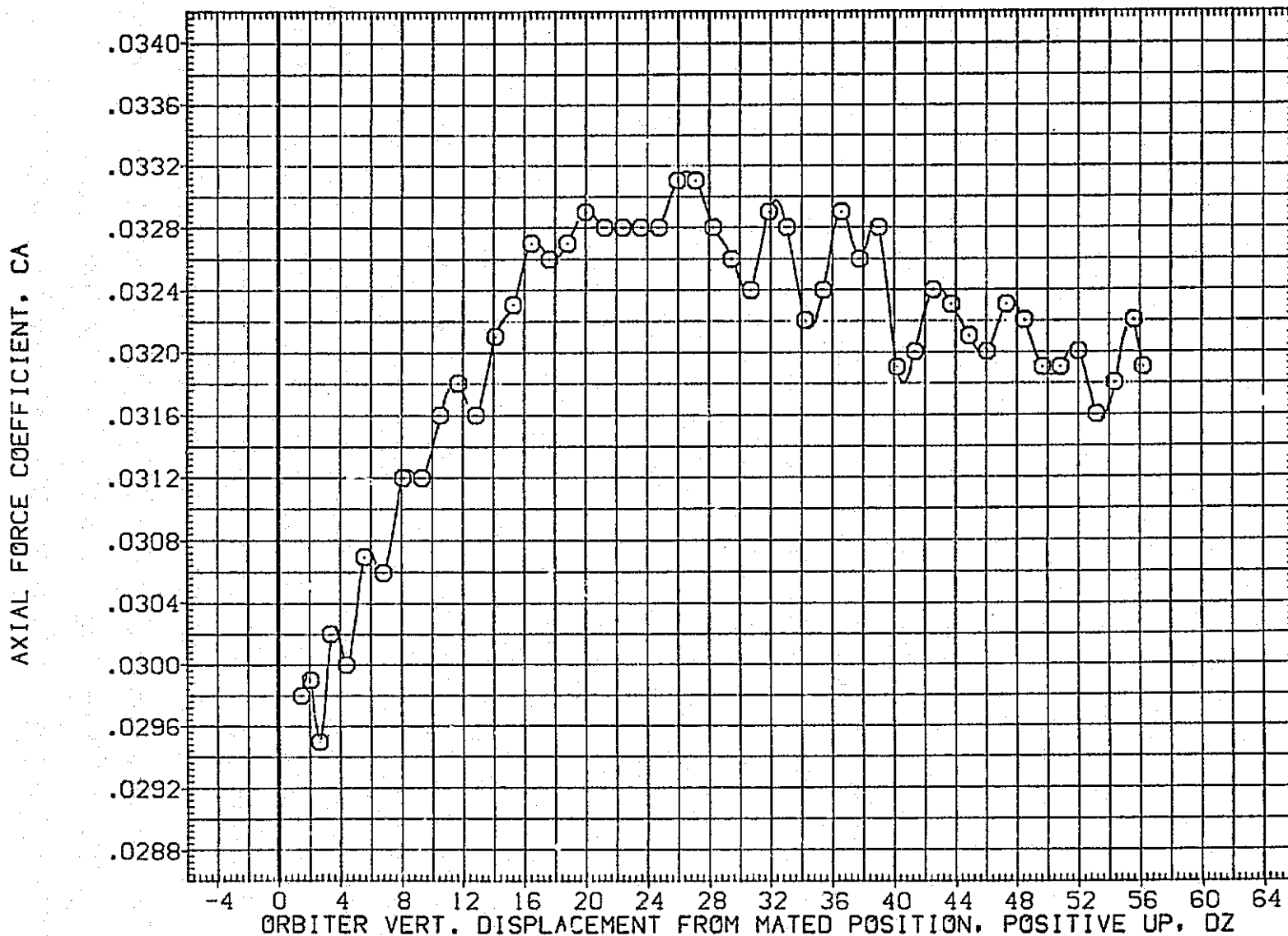


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	SO.FT.	
○	.594	4.000	.000	5.000	.000	5500.0000	50.FT.	
		-1.000		.000		327.7800	IN.	
		.000		.000		2348.0400	IN.	
		.000	10RB	8.000		1339.9000	IN.	XC
		.000	RUDDER	.000		.0000	IN.	YC
						190.7500	IN.	ZC
						SCALE	.0125	

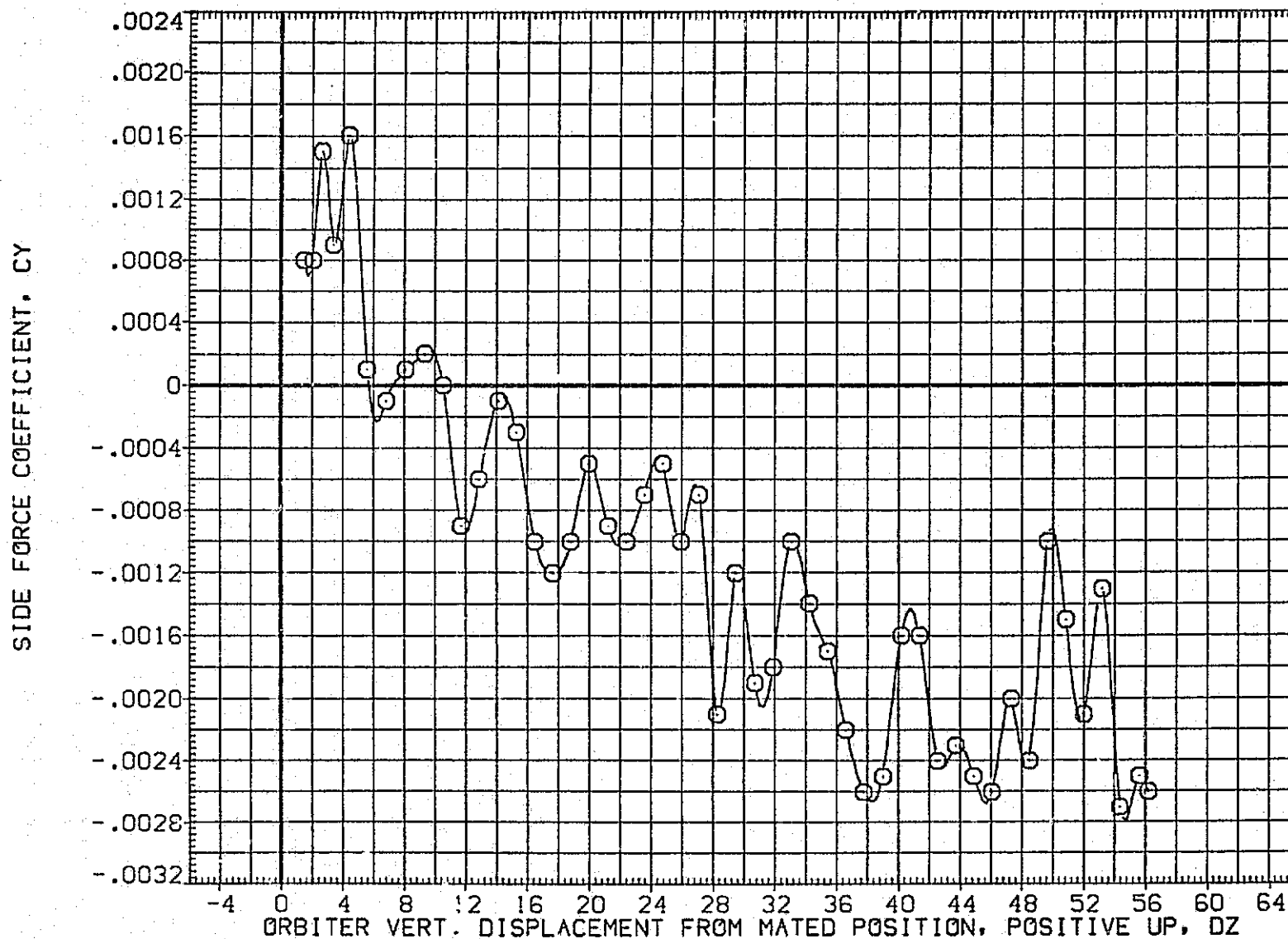


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, 10RB=8, BETAC=0, BETA0=0, RFE097

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE097)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	-1.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

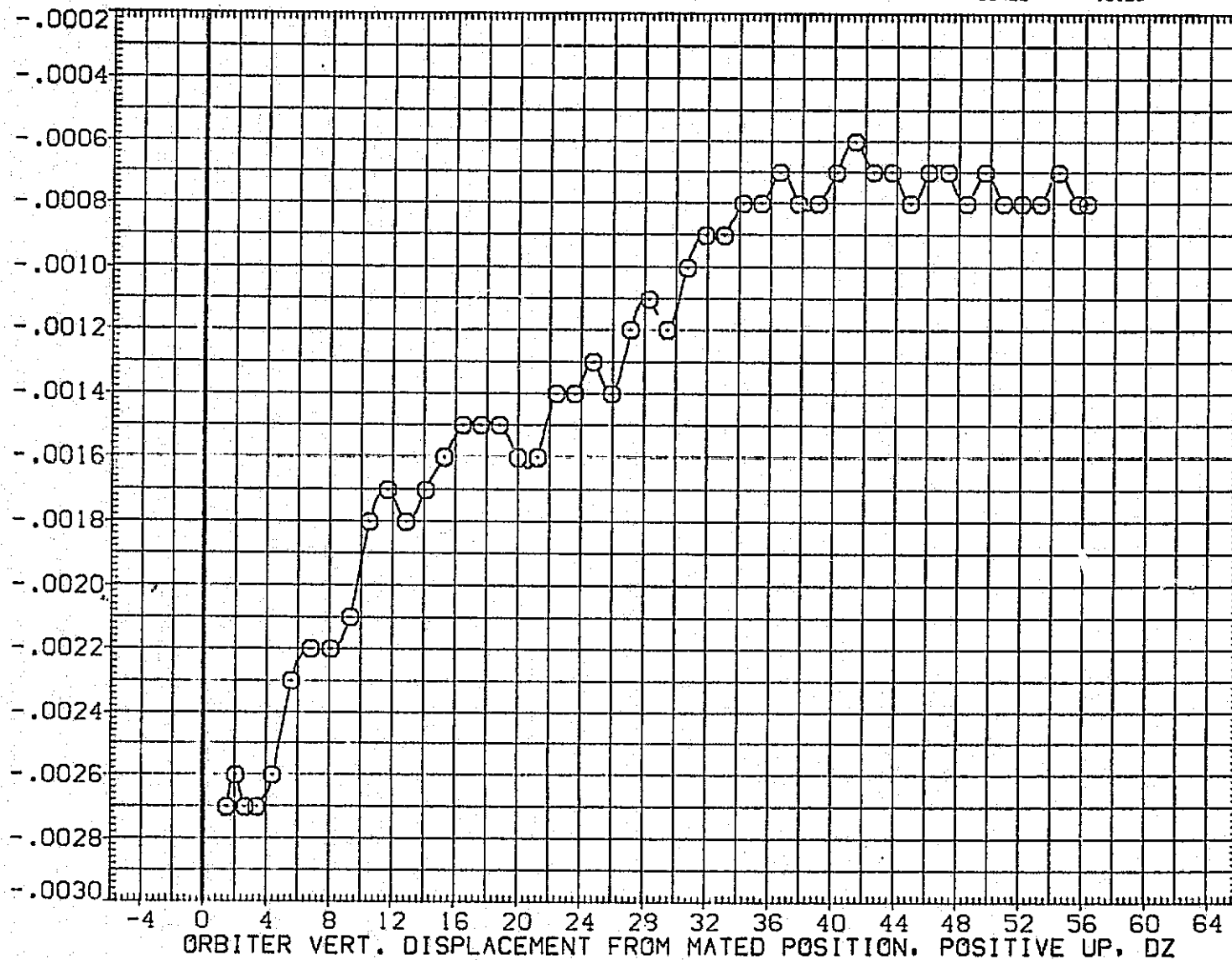


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.594	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

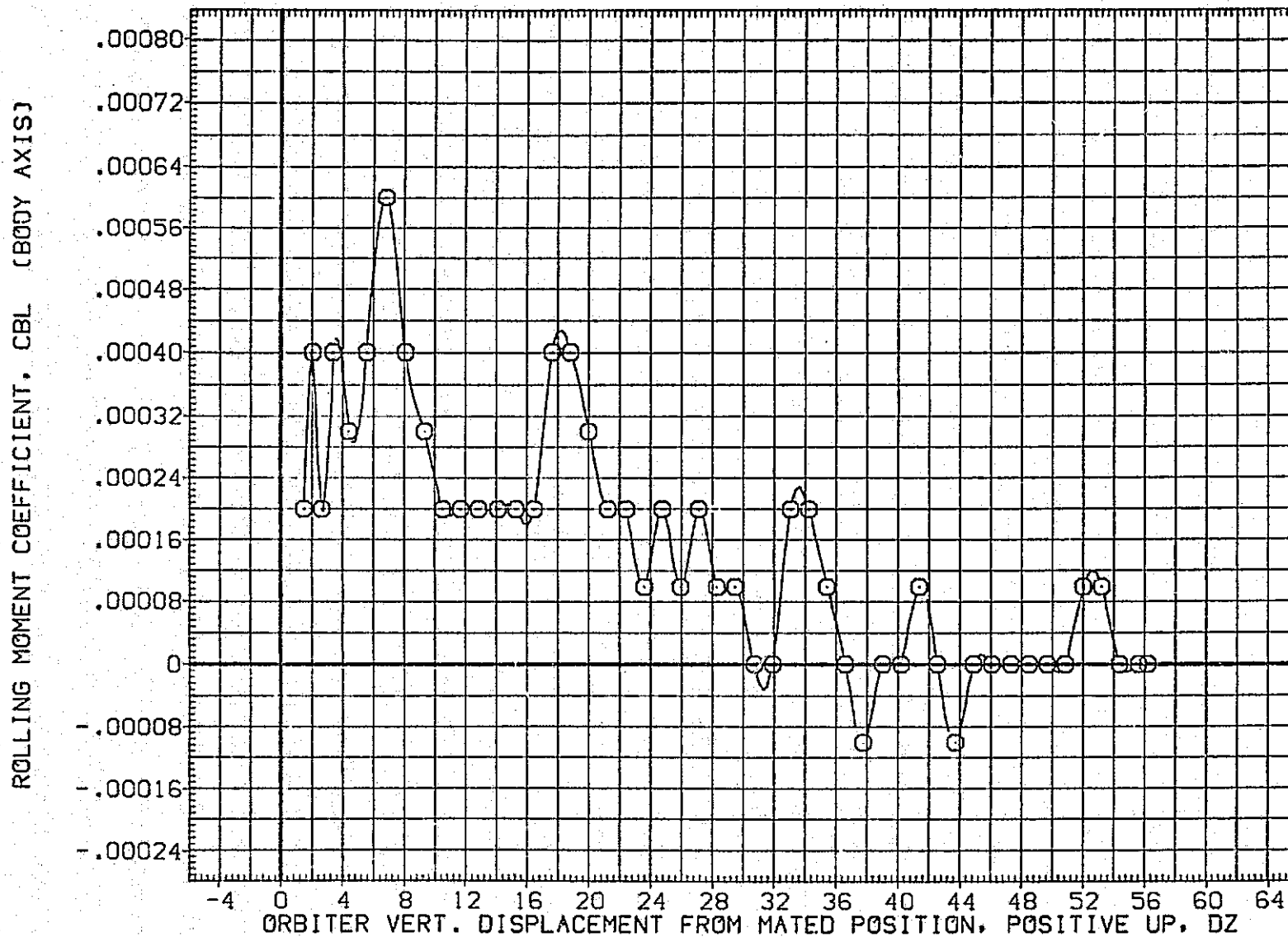


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE097)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

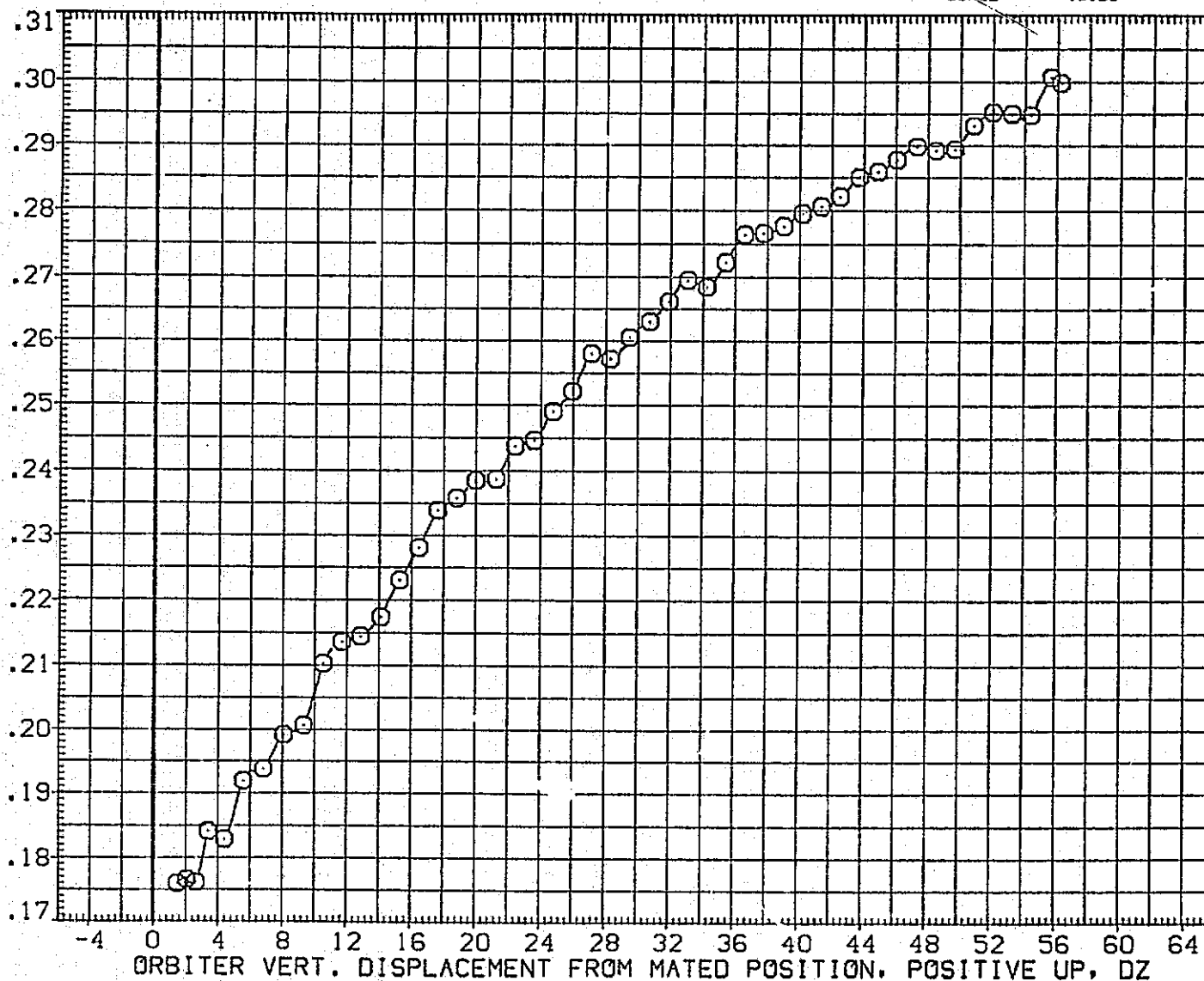


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

SYMBOL
○

MACH	PARAMETRIC VALUES			
.594	ALPHAC	4.000	BETAC	.000
	STAB	-1.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

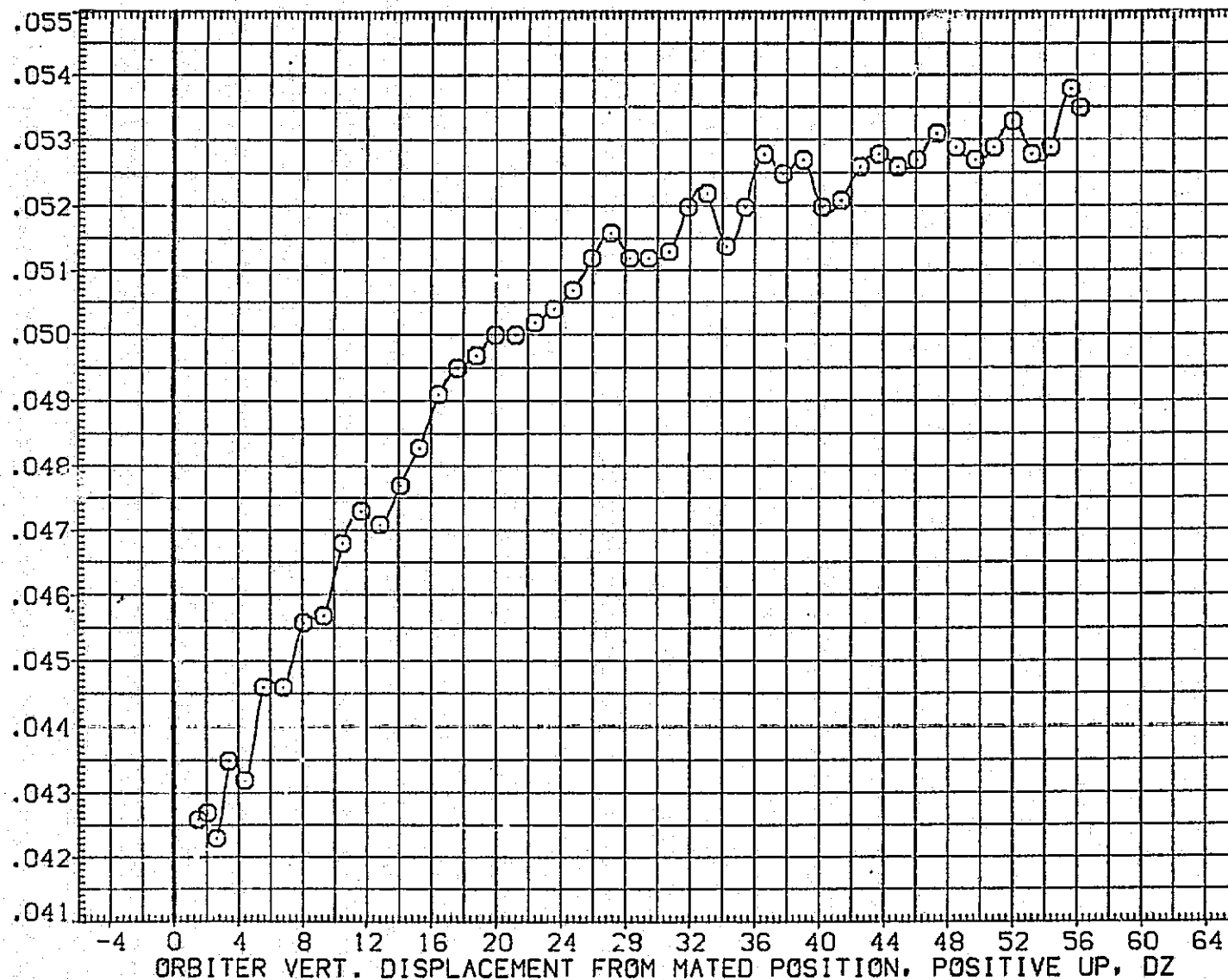


FIG.201 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE097

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE098)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		.DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

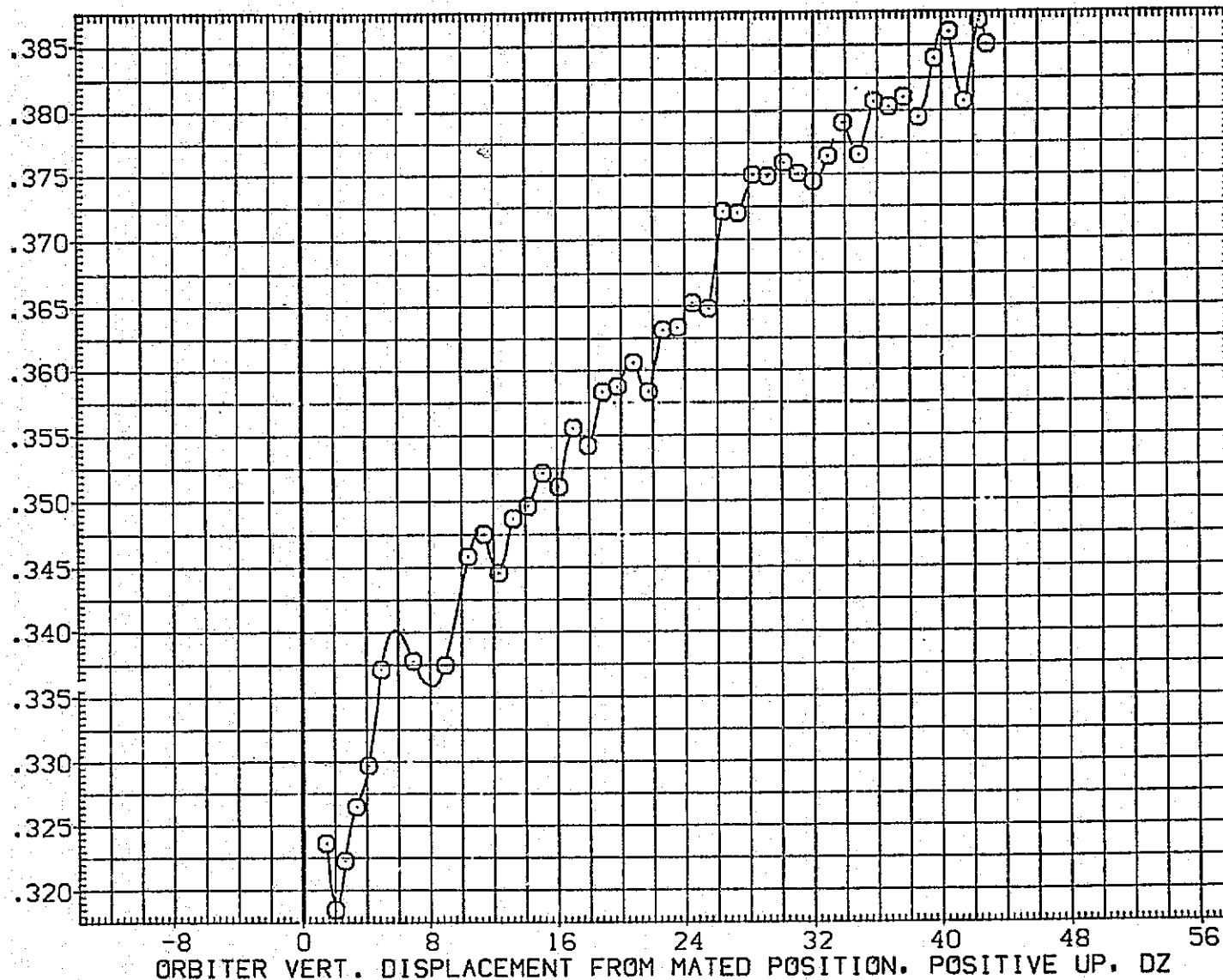


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

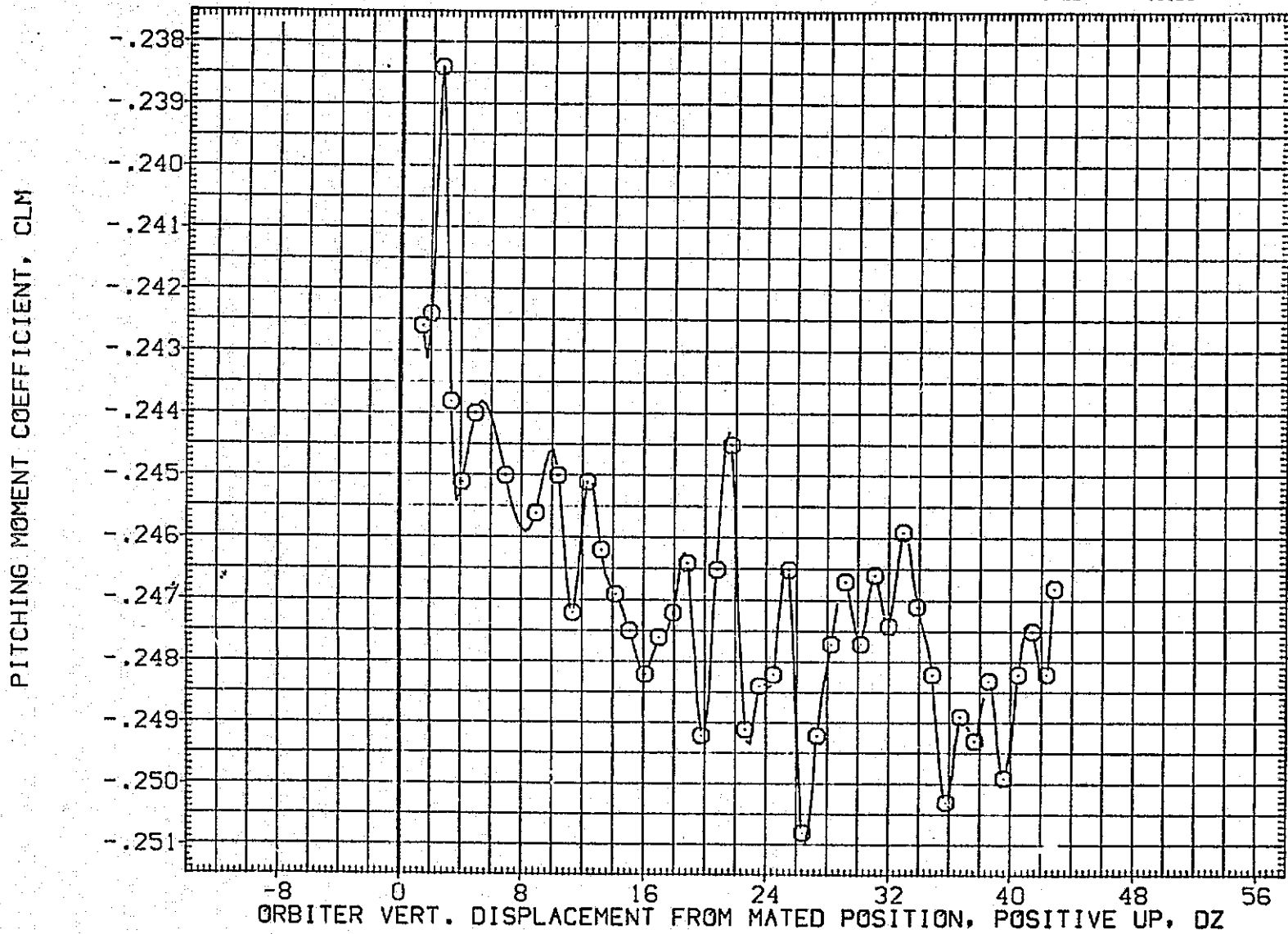


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE098)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

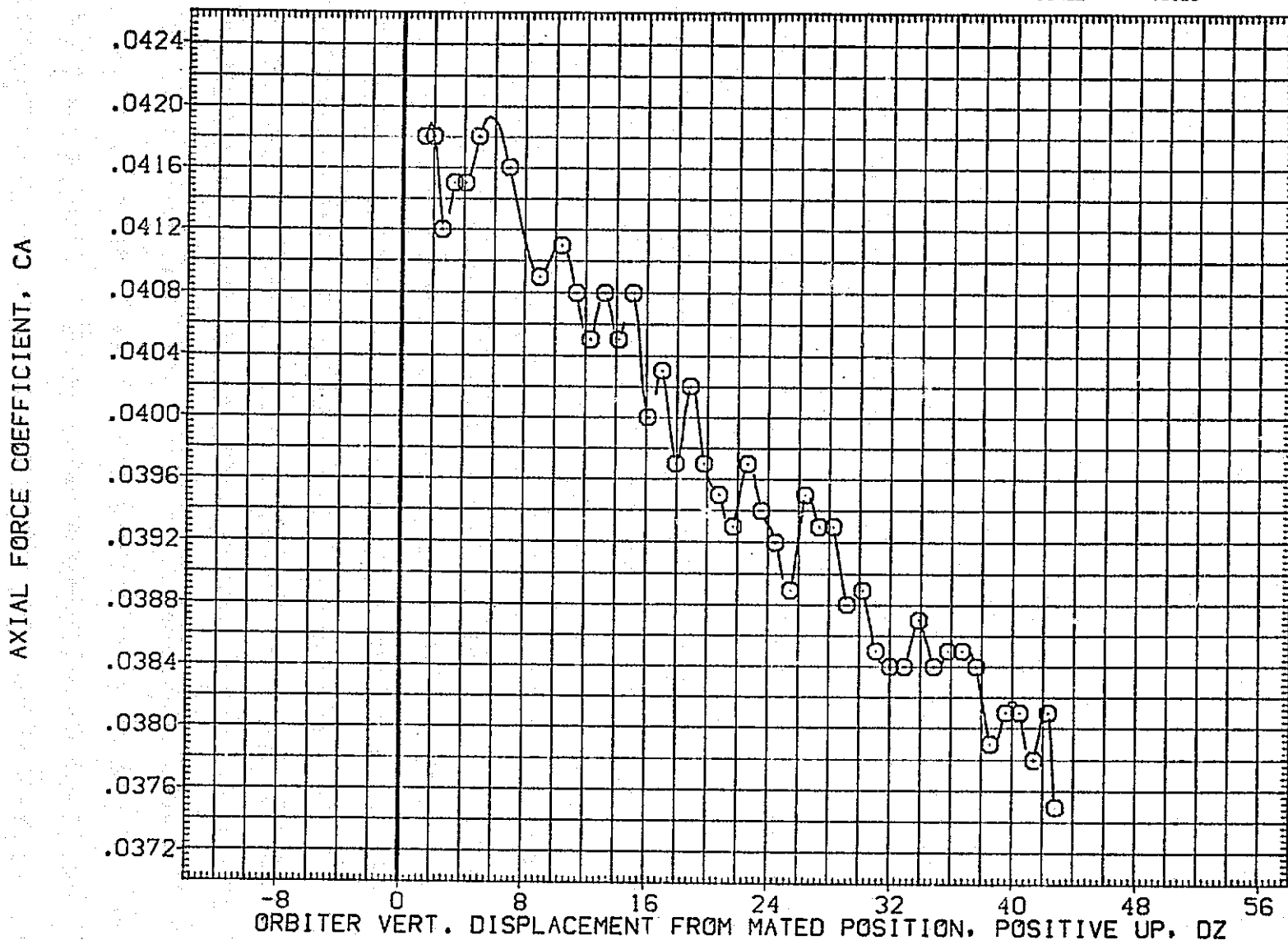


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

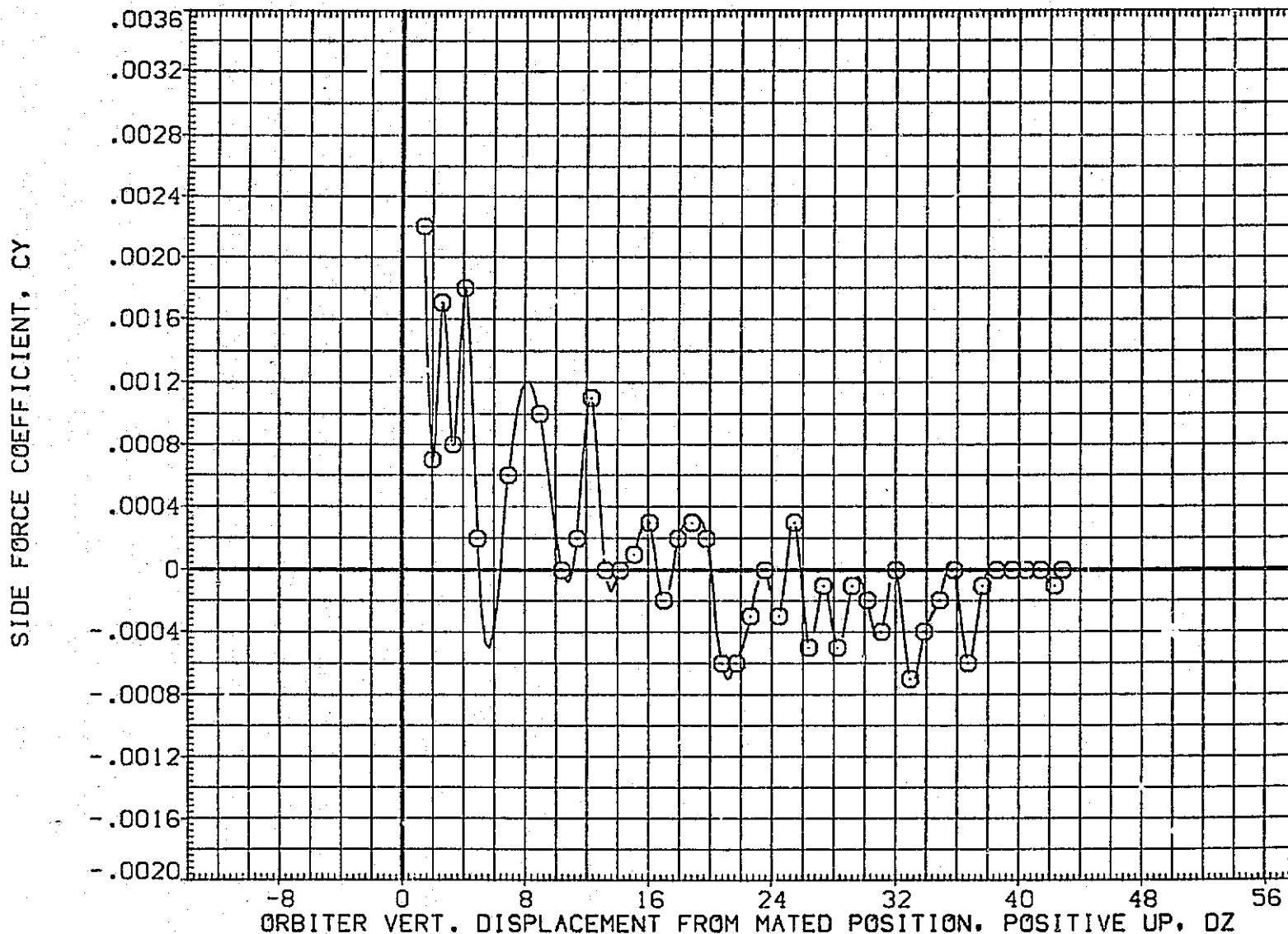


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE098)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SO.FT.
○	.599	4.000	.000	.000	.000	5500.0000	IN.	50.FT.
		5.000	.000	.000	.000	327.7800	IN.	
		BDFLAP	.000	.000	.000	2348.0400	IN.	
		DY	.000	IORB	4.000	1339.8000	IN.	XC
		BETA0	.000	RUDDER	.000	YMRP	IN.	YC
						ZMRP	IN.	ZC
						SCALE		

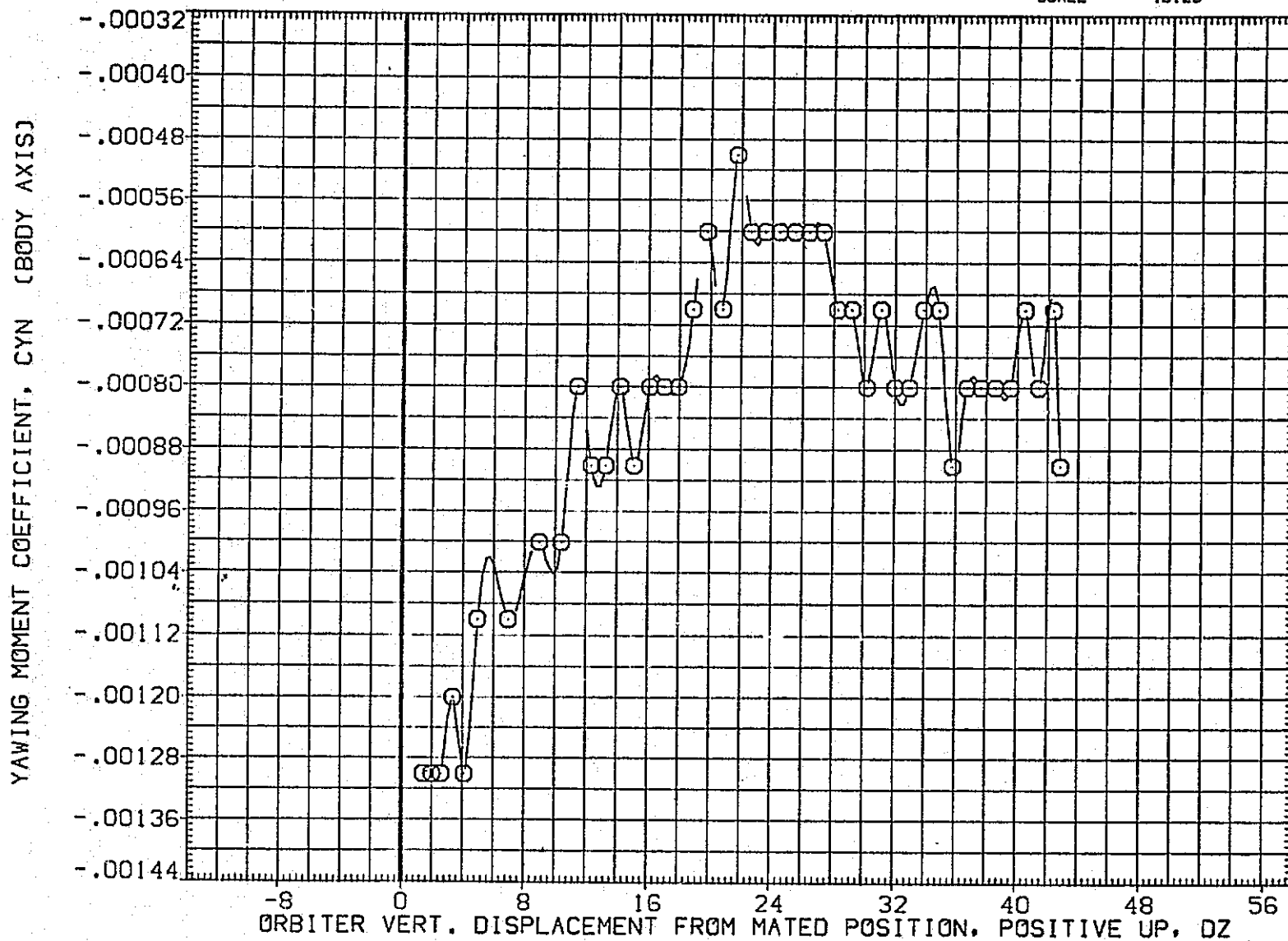


FIG-202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	4.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

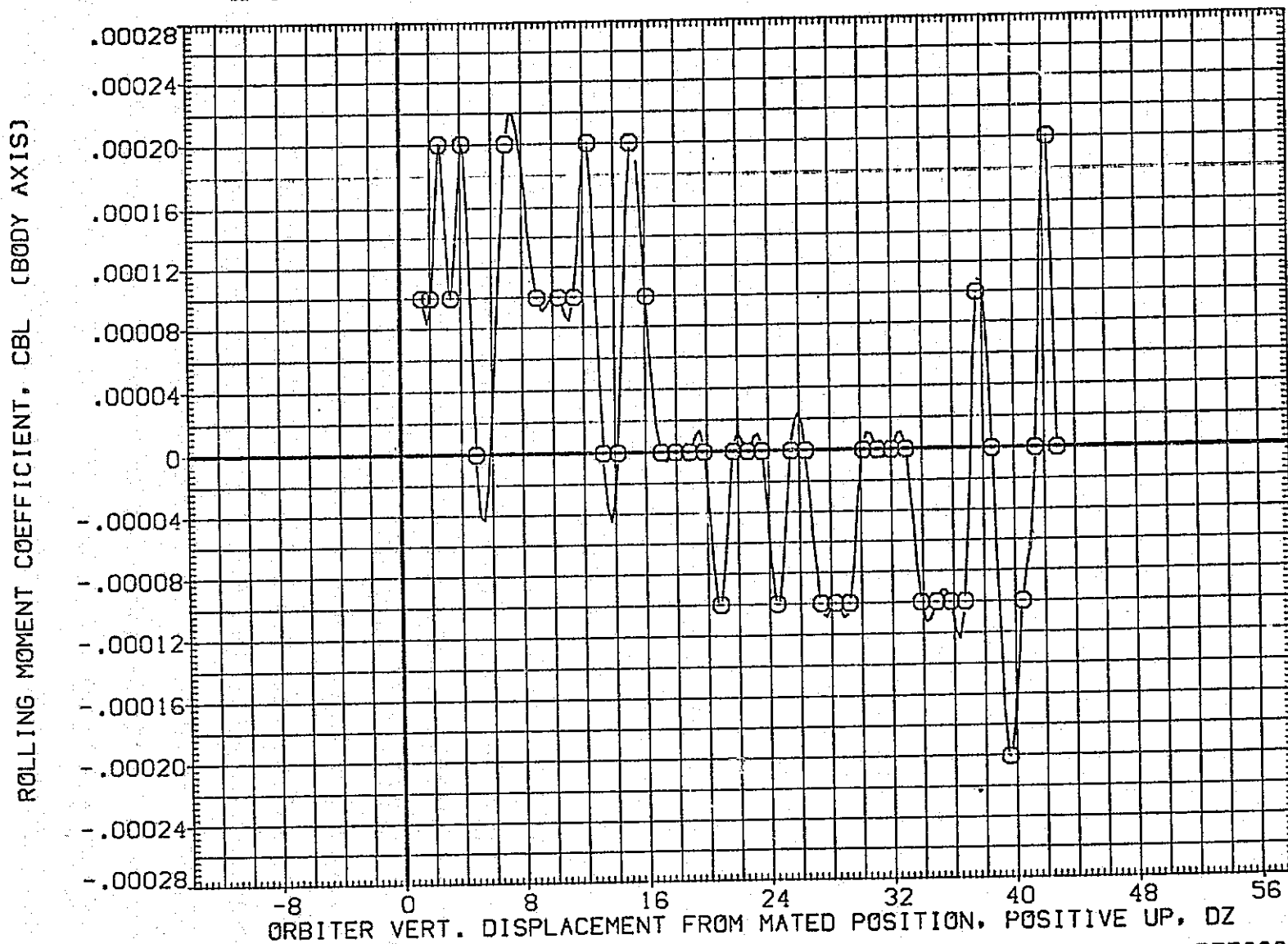


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE098)

SYMBOL

○

MACH

.599

PARAMETRIC VALUES

ALPHAC	4.000	BETAC	.000
STAB	5.000	ELEVON	.000
BDFLAP	.000	DX	.000
DY	.000	IORB	4.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

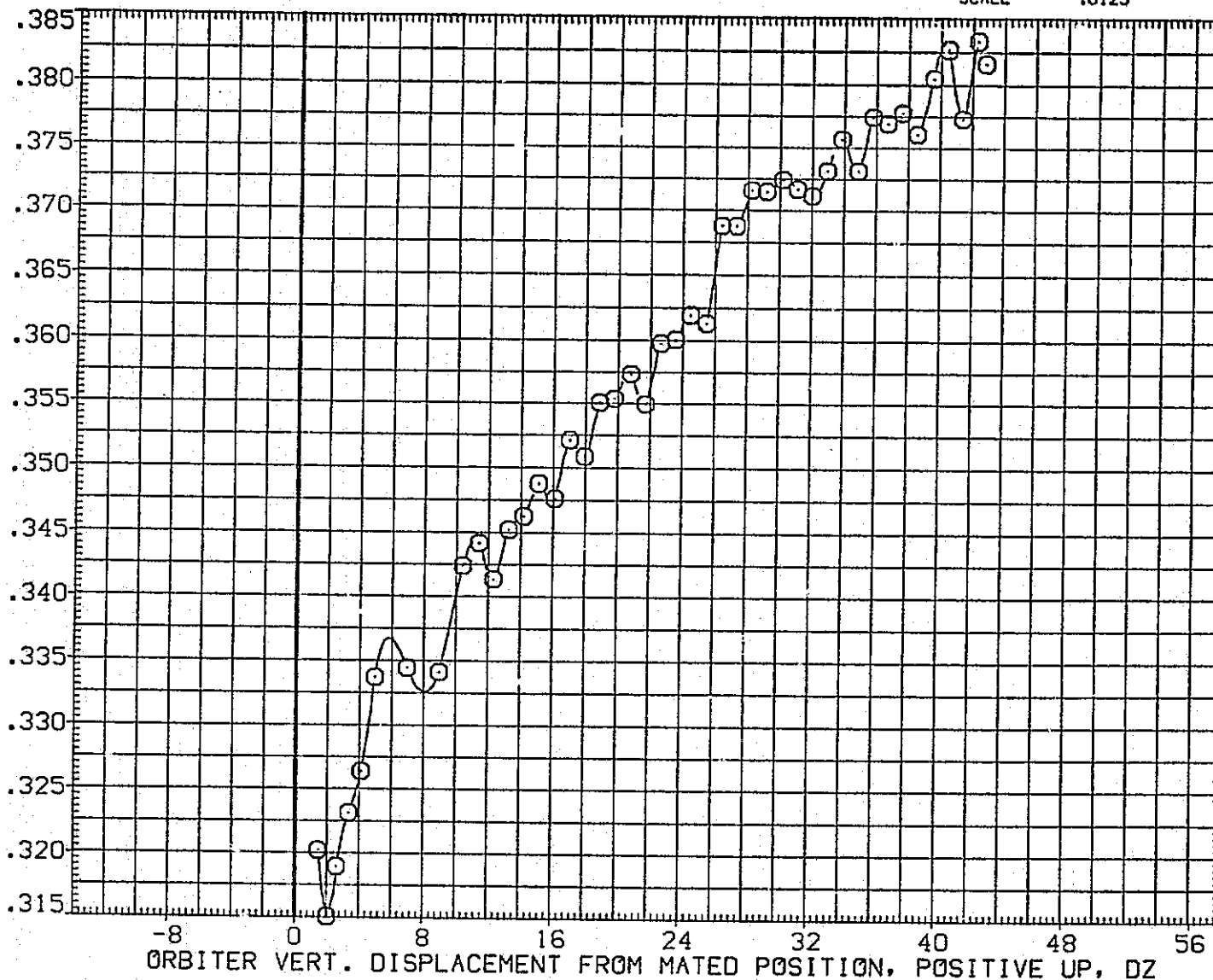


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

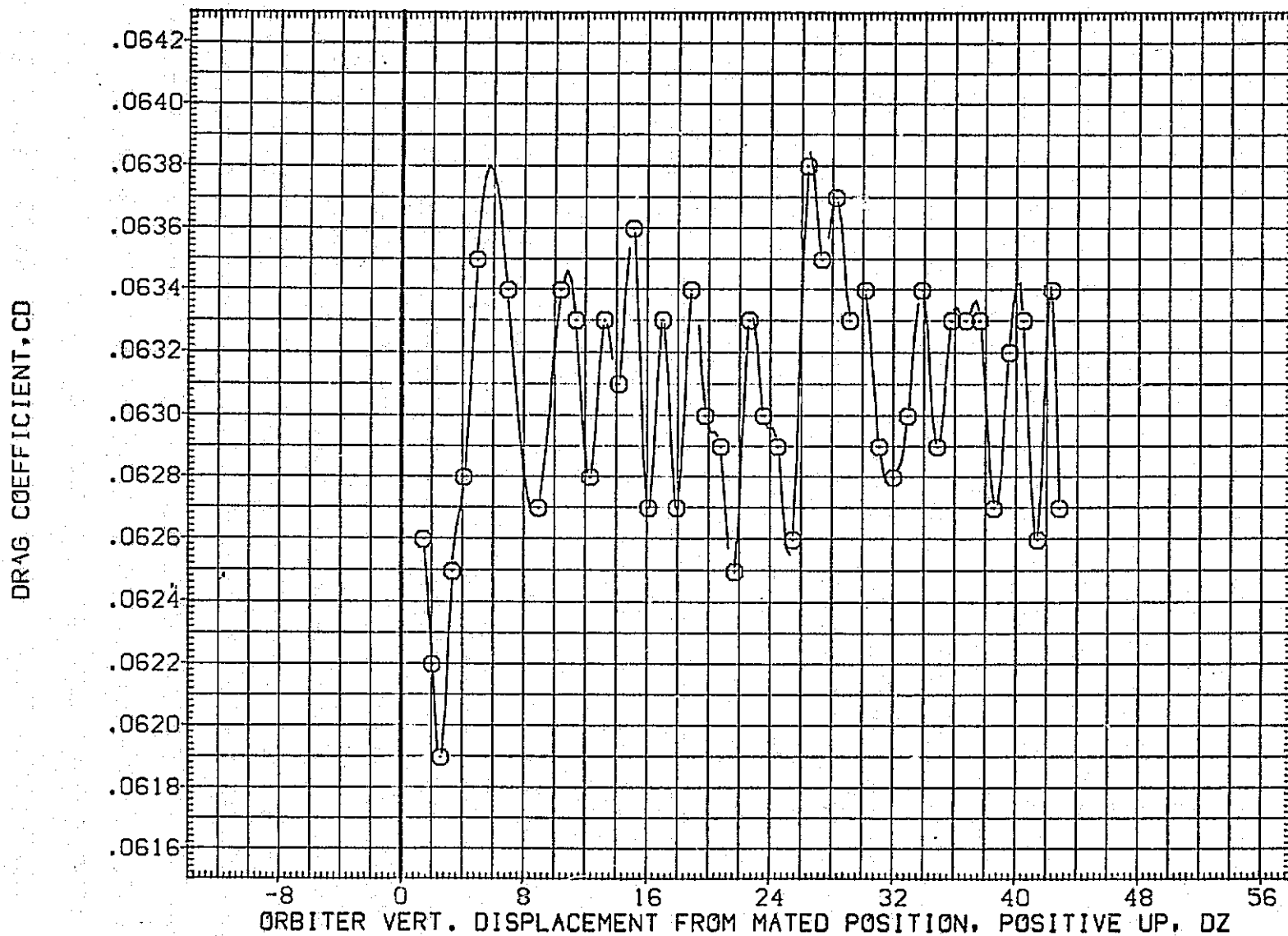


FIG.202 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE098

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE099)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		BY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

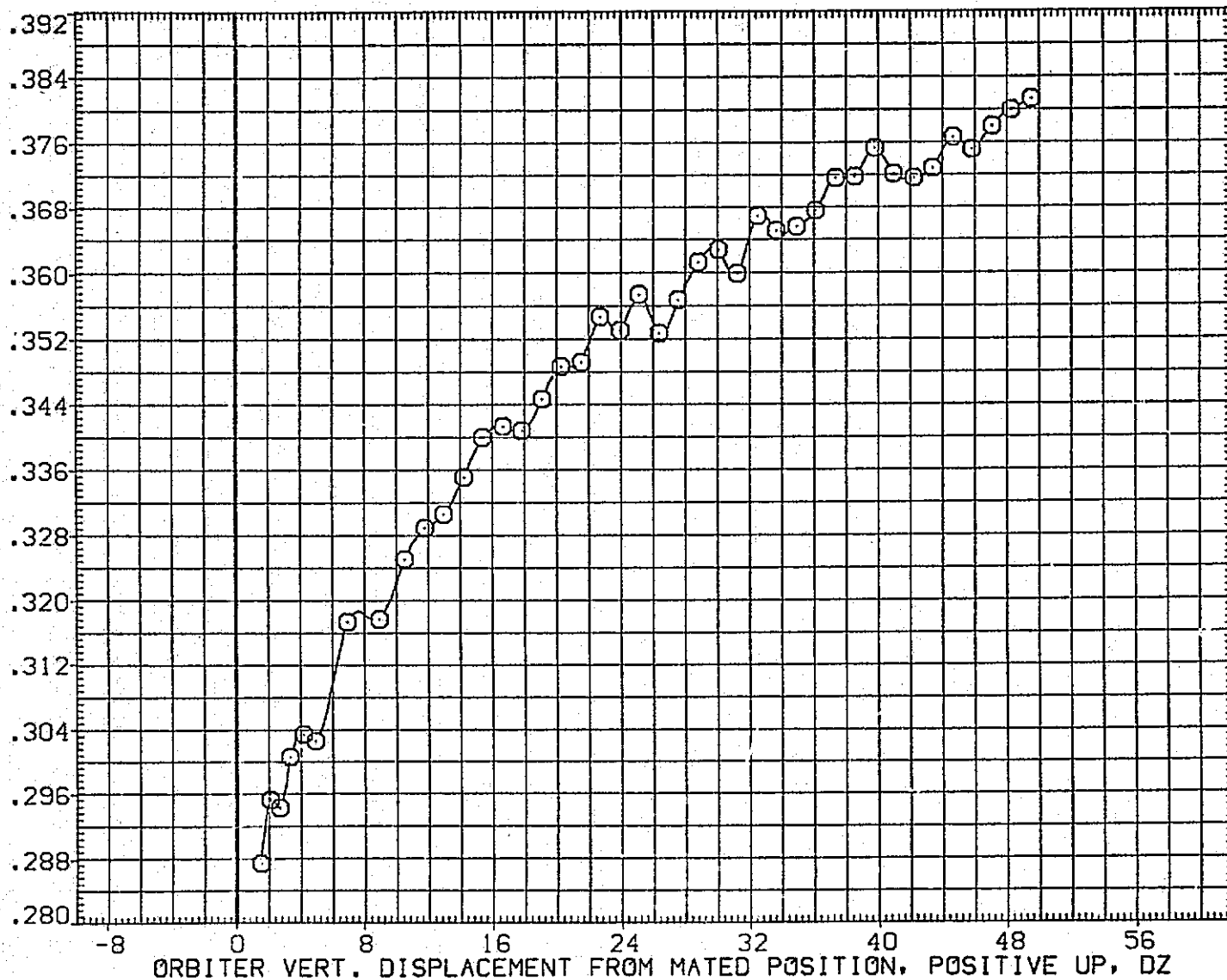


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5900.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

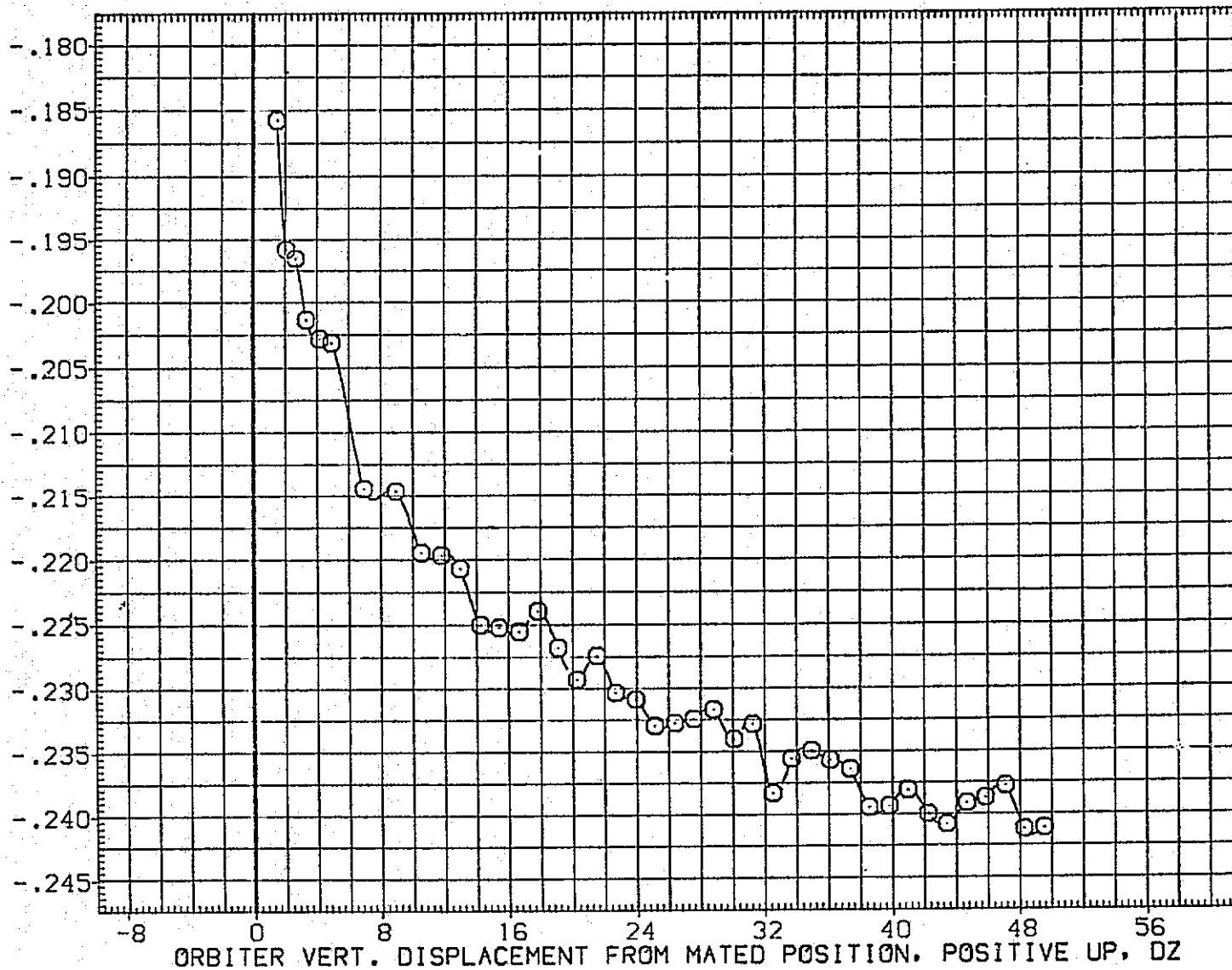


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE099)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		SDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

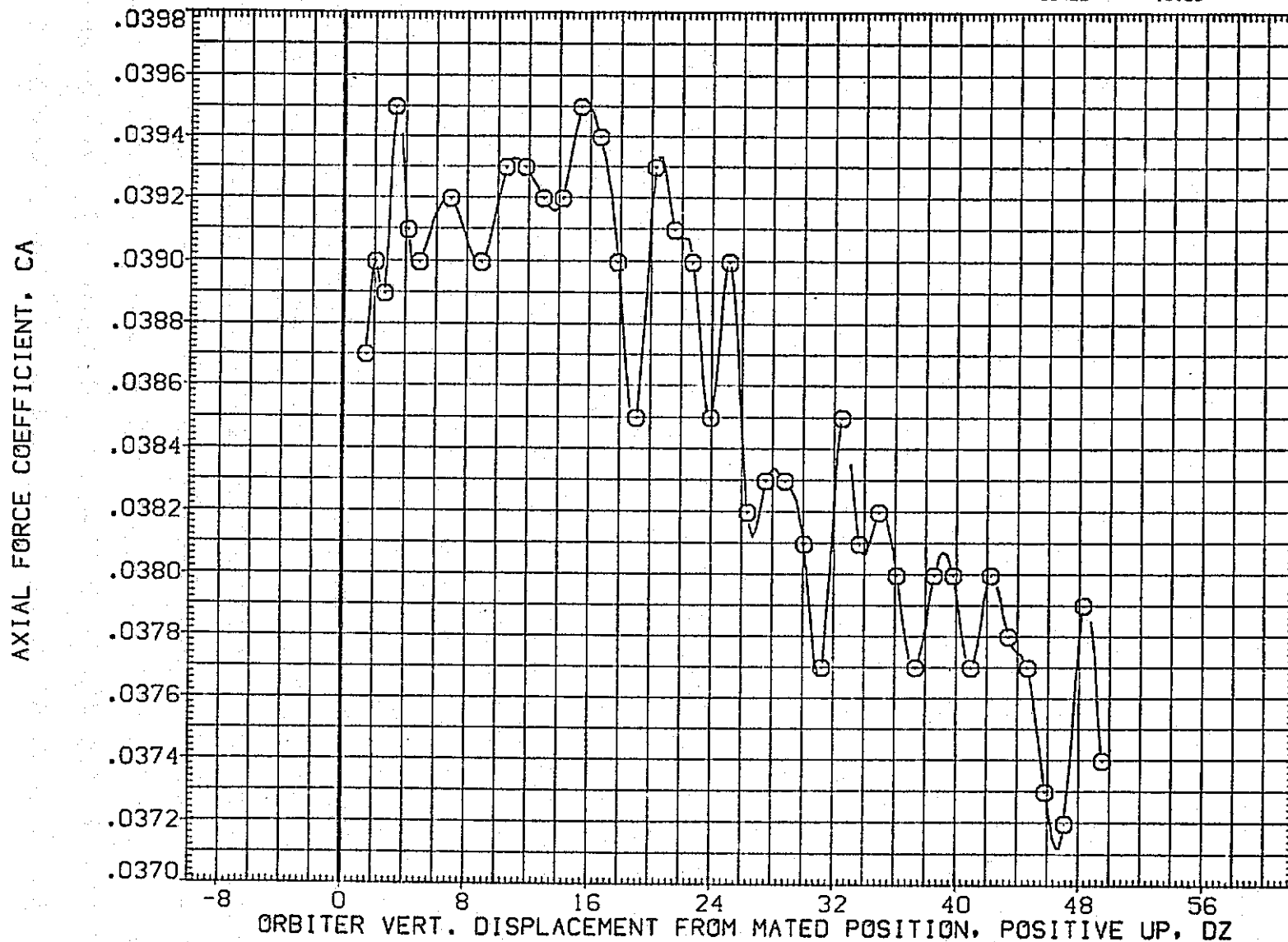


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

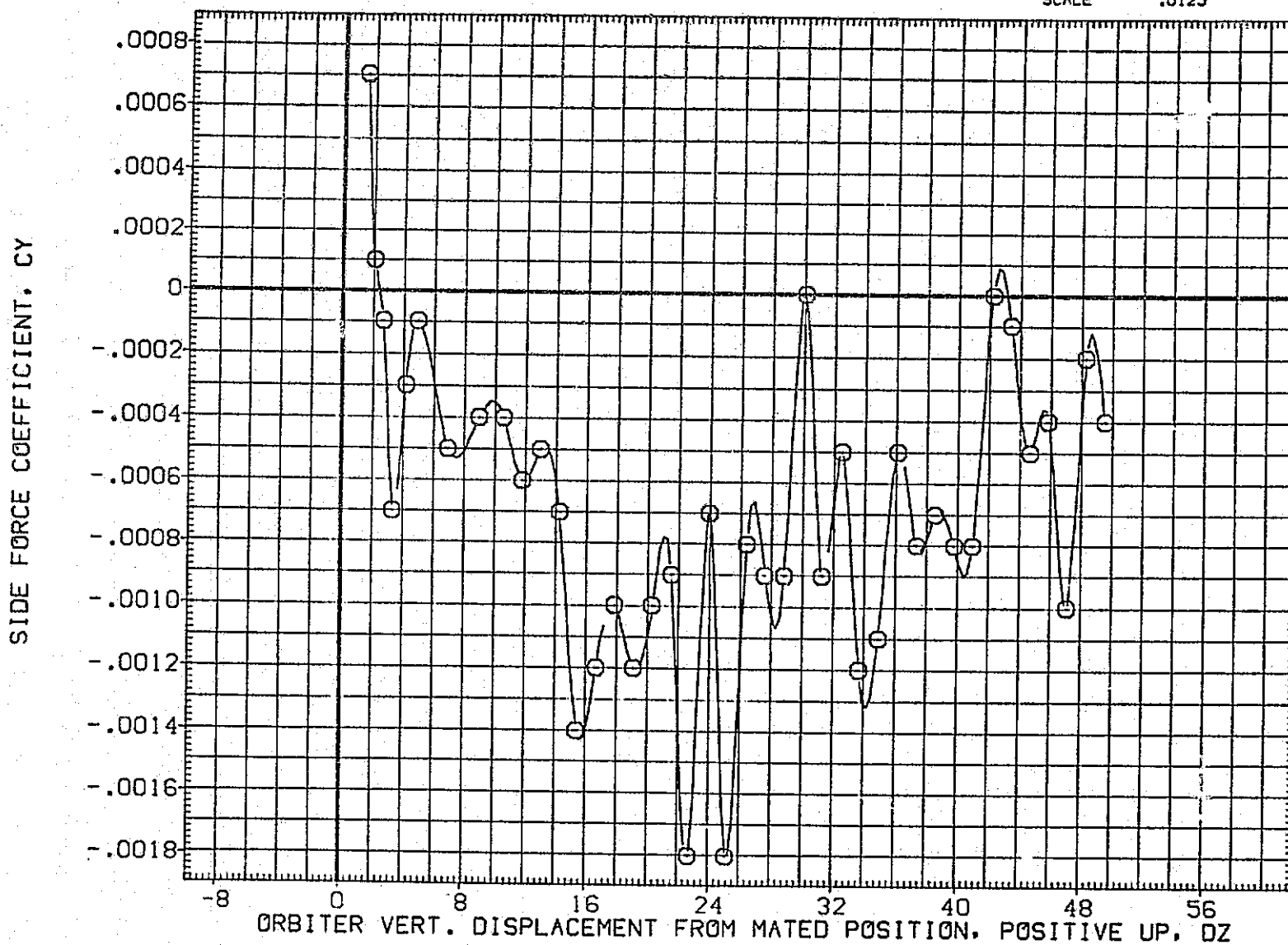


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE099)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

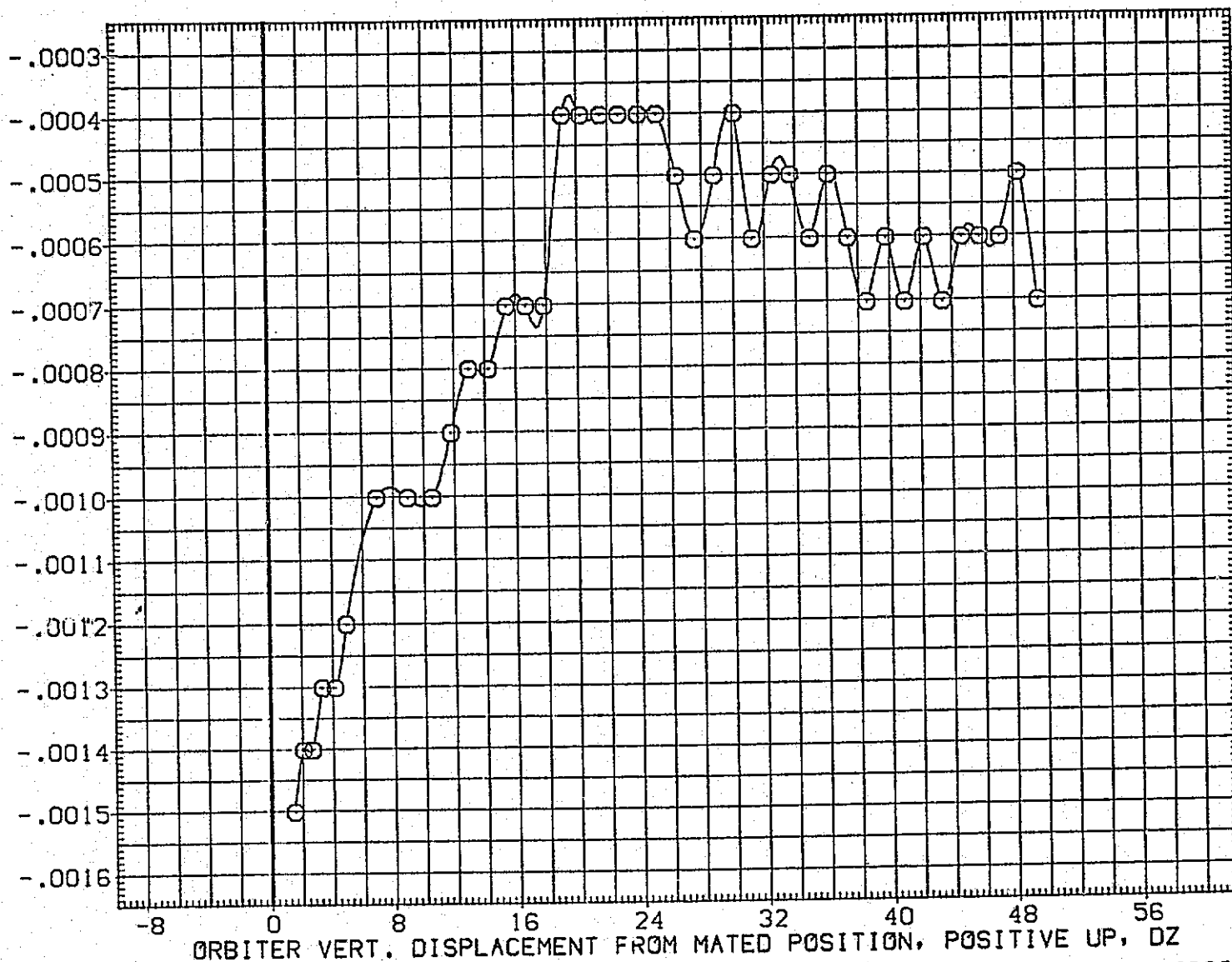


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	OX	.000
		OY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5509.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

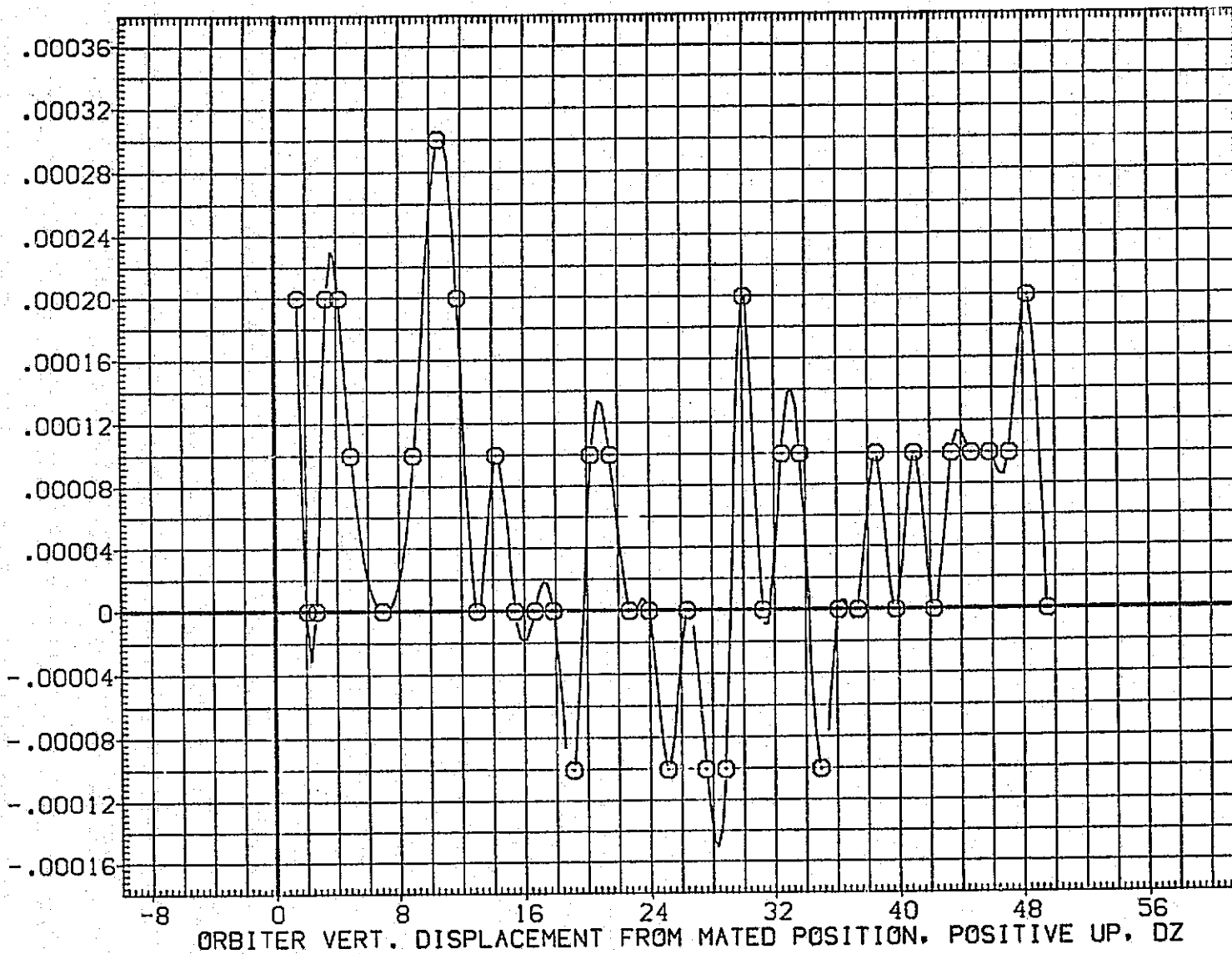


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE099)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

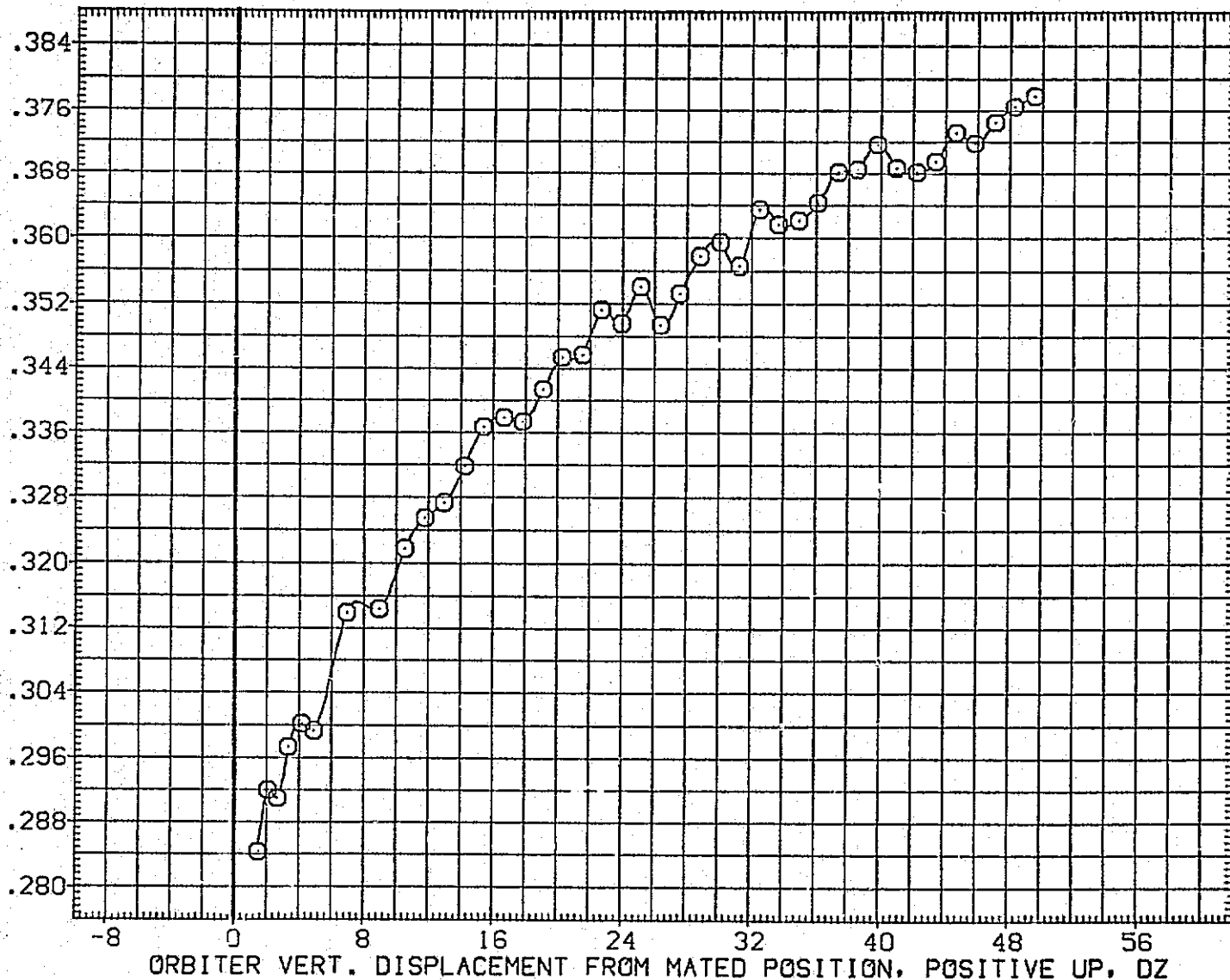


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

SYMBOL

○

MACH

.599

ALPHAC

PARAMETRIC VALUES

4.000 BETAC .000

STAB 5.000 ELEVON .000

BDFLAP .000 DX .000

DY .000 IORB 6.000

BETA0 .000 RUDDER .000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.

LREF 327.7800 IN.

BREF 2348.0400 IN.

XMRP 1339.9000 IN. XC

YMRP .0000 IN. YC

ZMRP 190.7500 IN. ZC

SCALE .0125

DRAG COEFFICIENT, CD

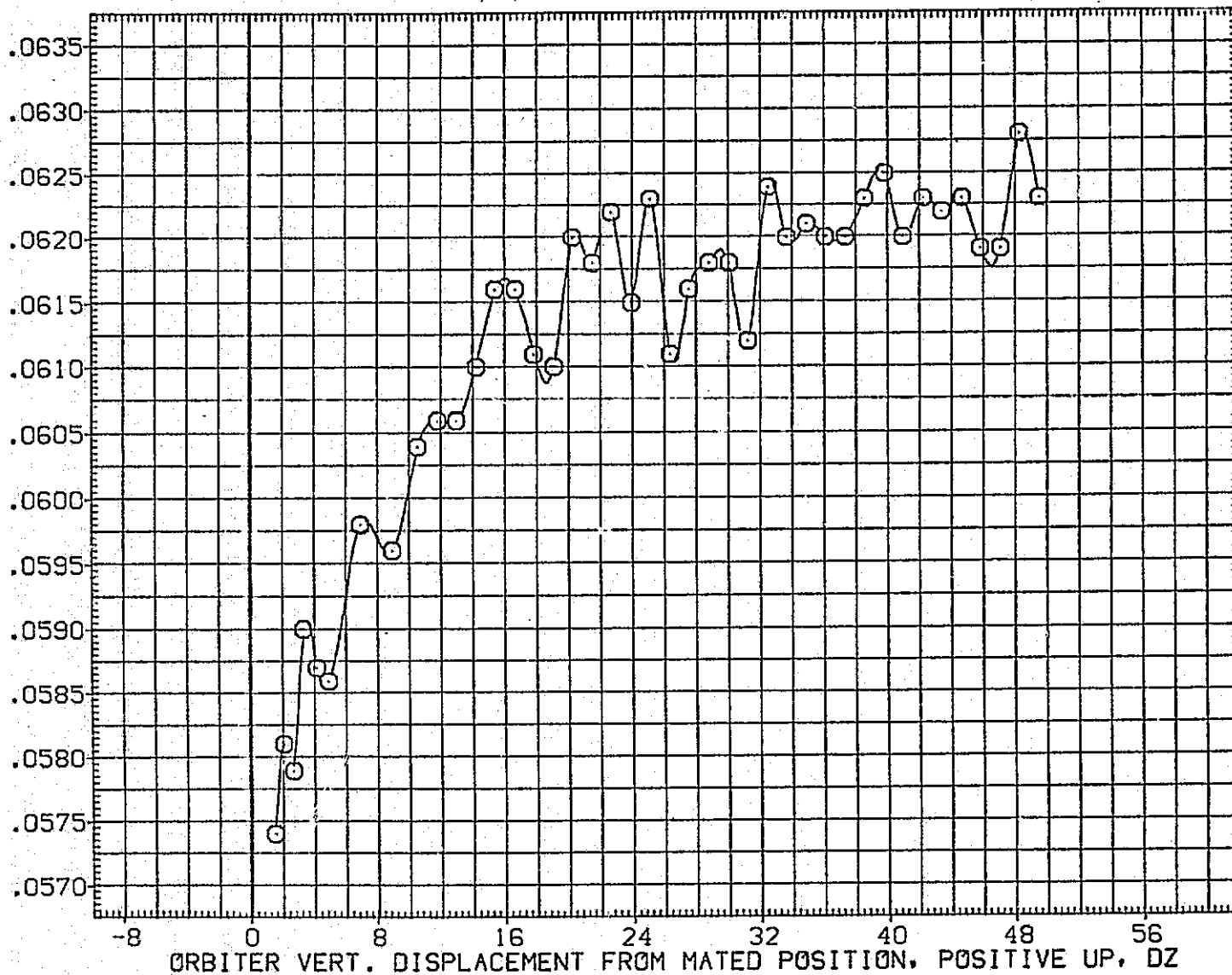


FIG.203 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE099

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE100)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

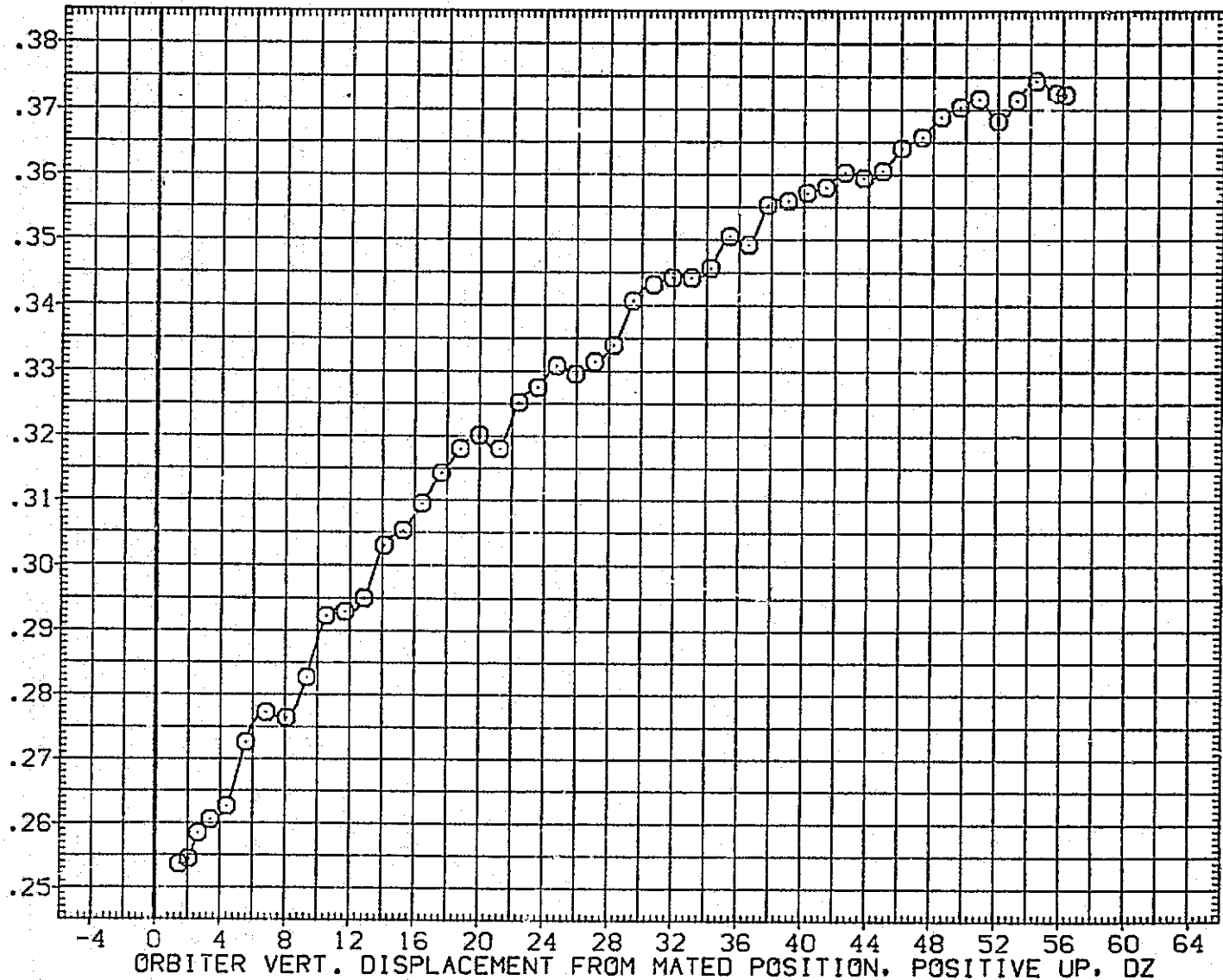


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

SYMBOL

○

MACH

.597

PARAMETRIC VALUES

ALPHAC	4.000	BETAC	.000
STAB	5.000	ELEVON	.000
BOFLAP	.000	DX	.000
DY	.000	IORB	8.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

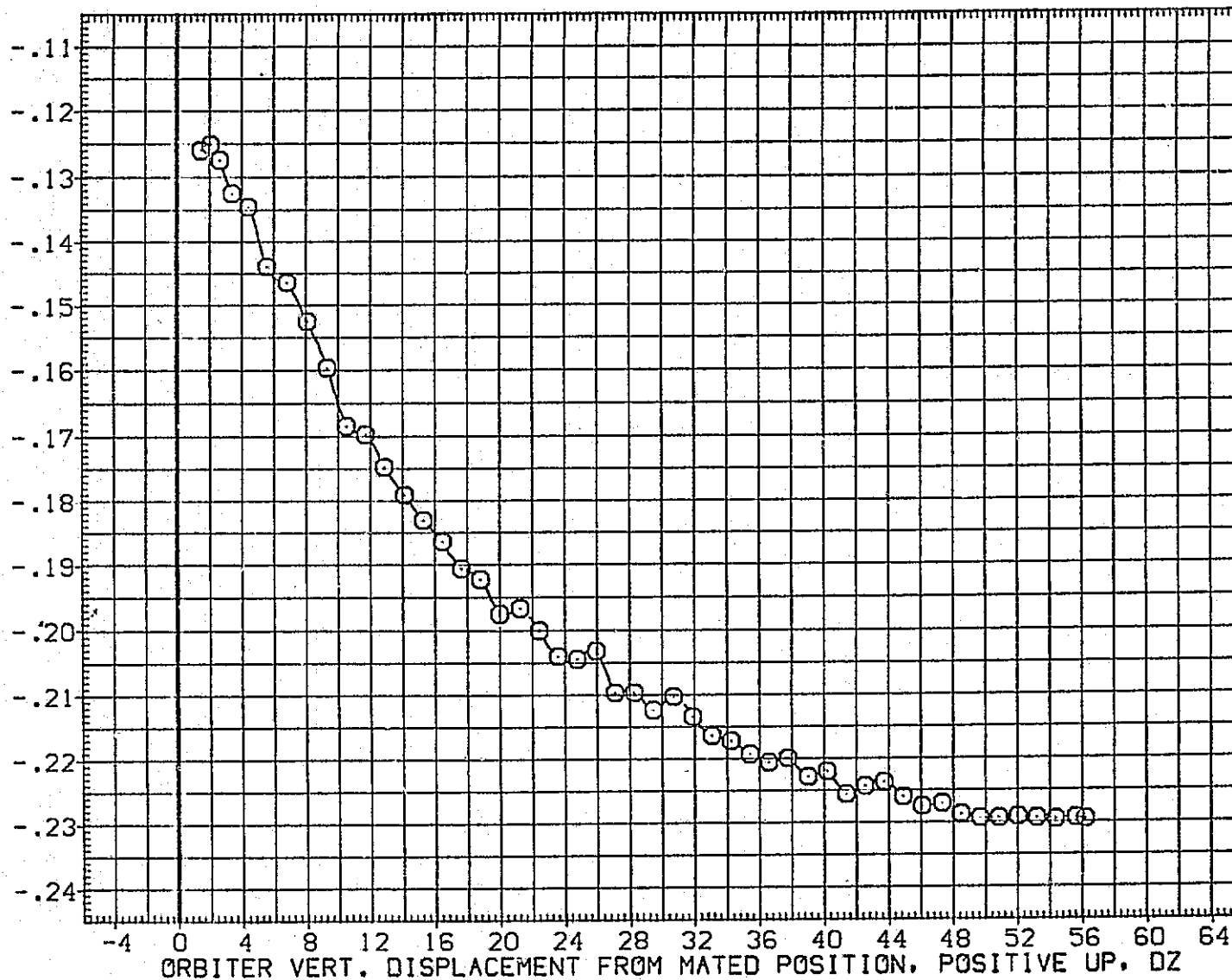


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE100)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

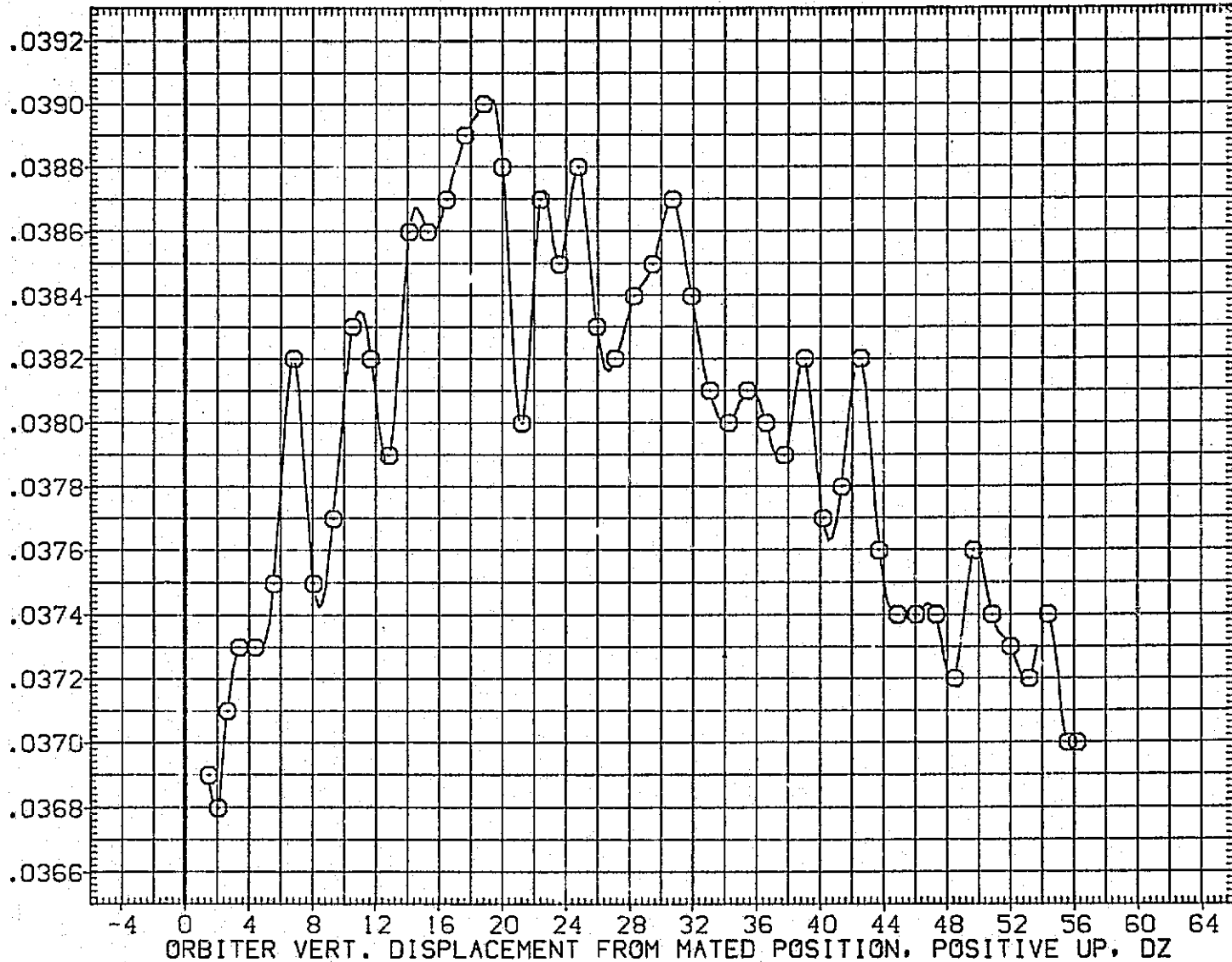


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	LREF	BREF
○	.597	4.000	.000	.000	.000	5500.0000	327.7800	2348.0400
		5.000	.000	.000	.000		1339.9000	
		.000	.000	.000	.000		.0000	
		.000	8.000	.000	.000		190.7500	
		.000	.000	.000	.000		.0125	

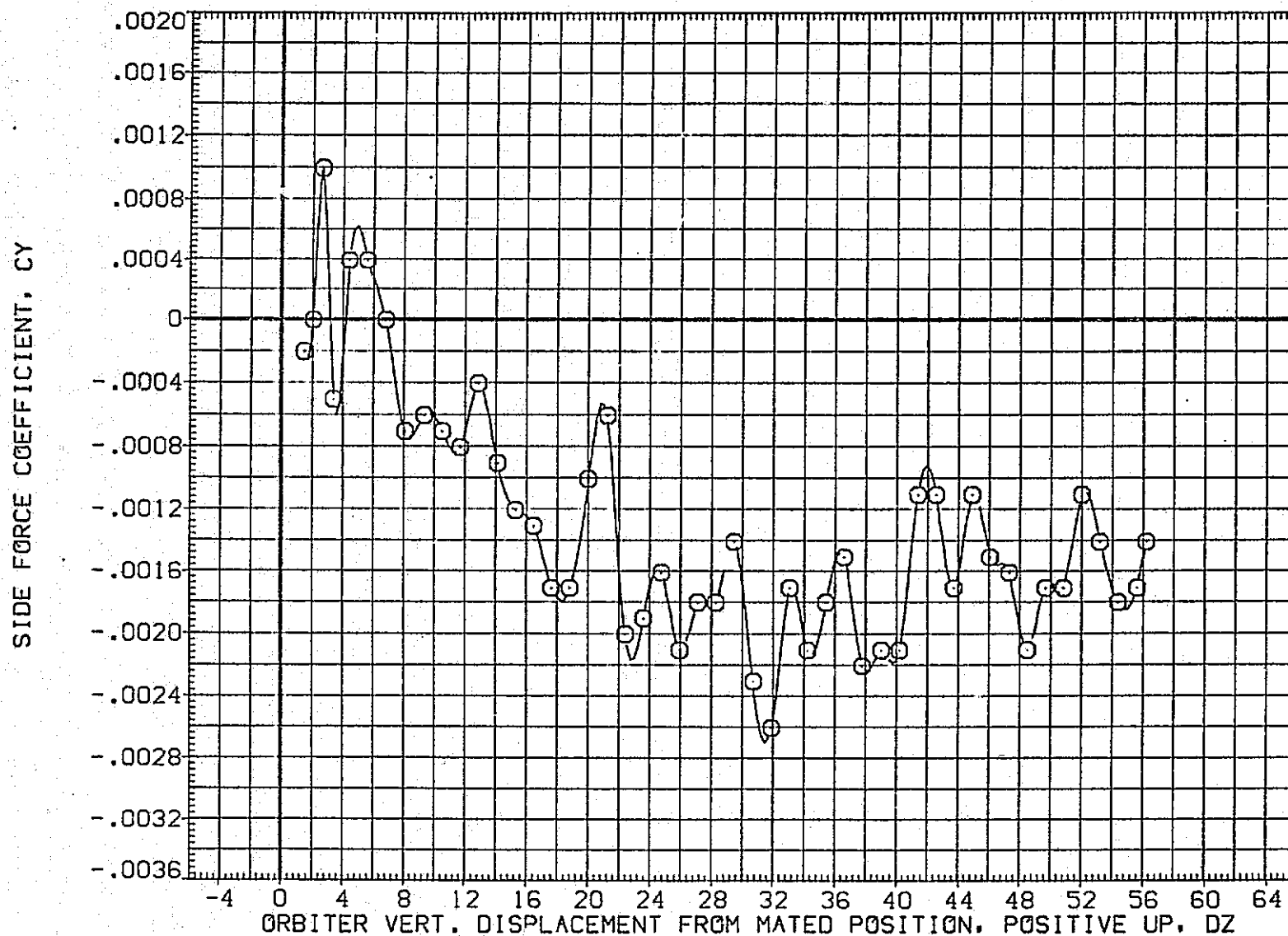


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE100)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

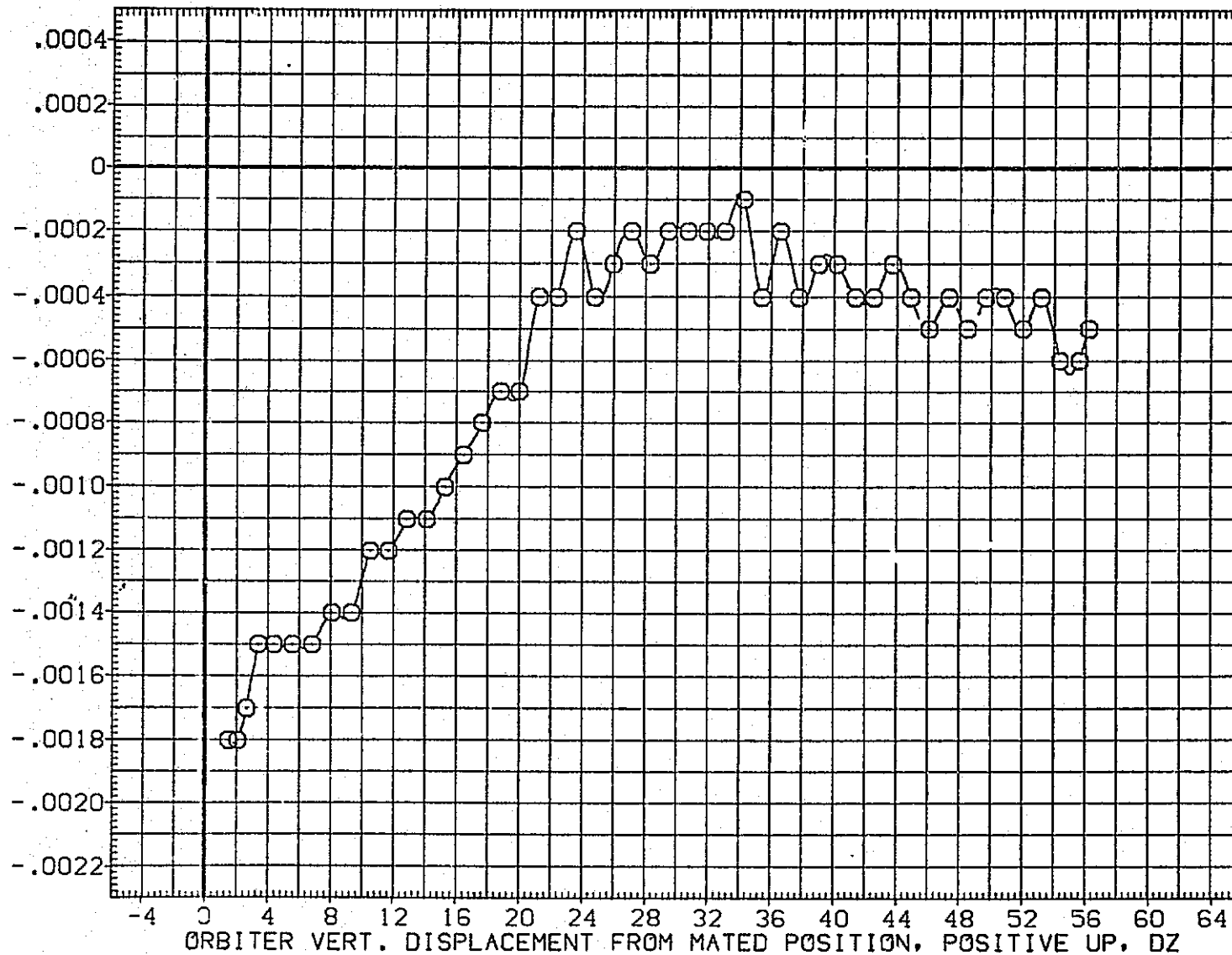


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

SYMBOL	MACH	PARAMETRIC VALUES			
○	.597	ALPHAC	4.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

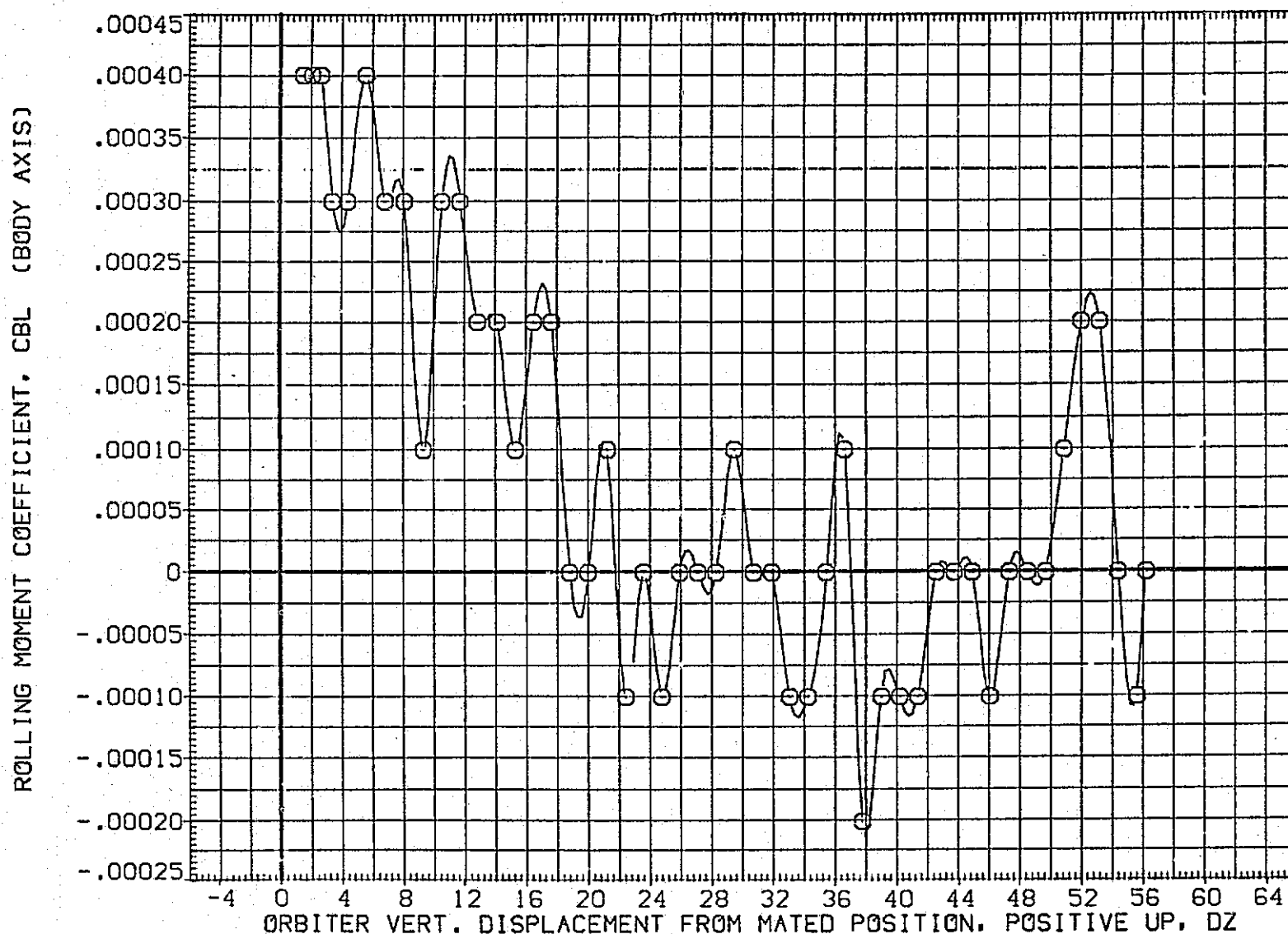


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE100)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.597	ALPHAC	4.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

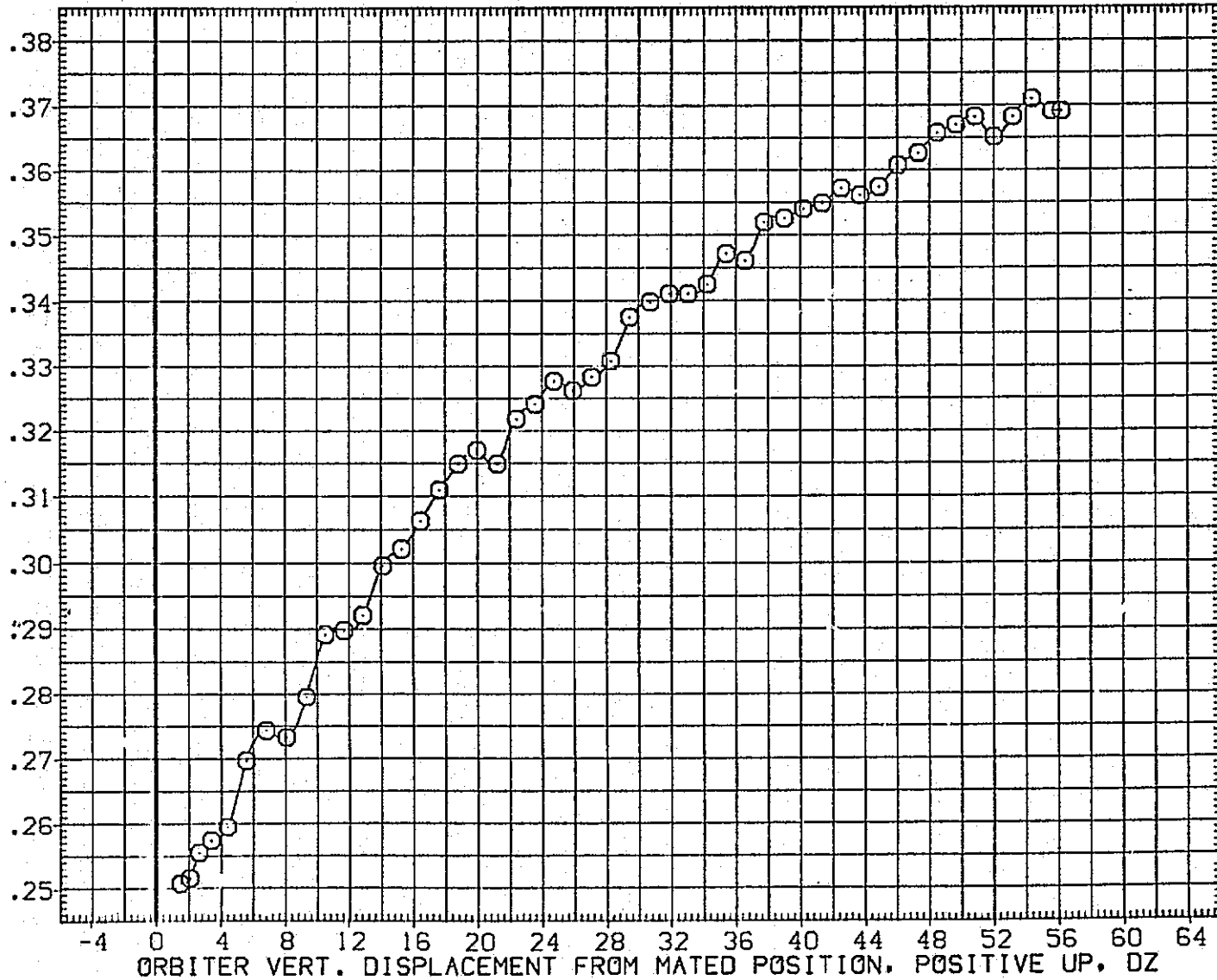


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.597	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

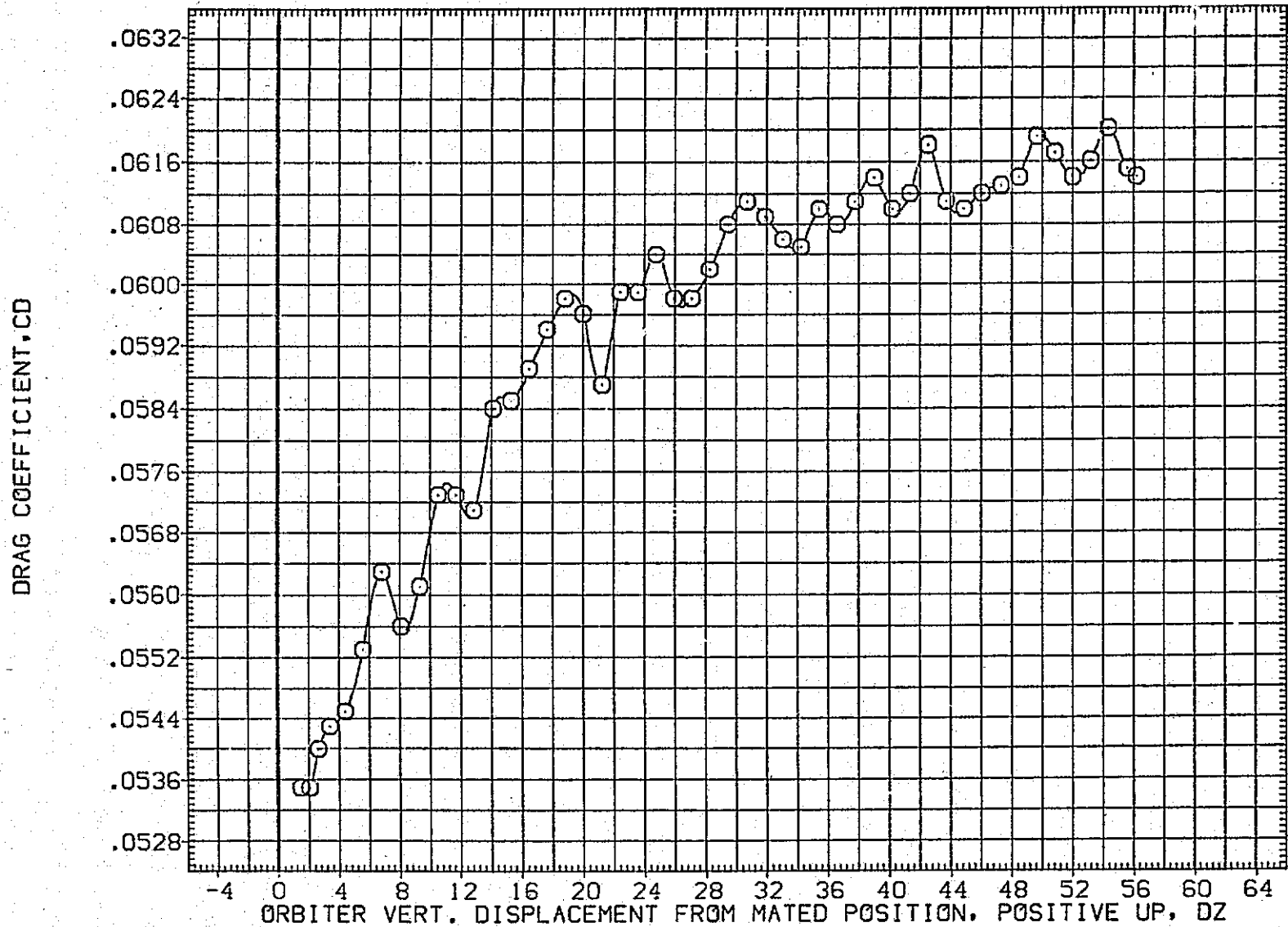


FIG.204 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE100

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE101)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		OY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

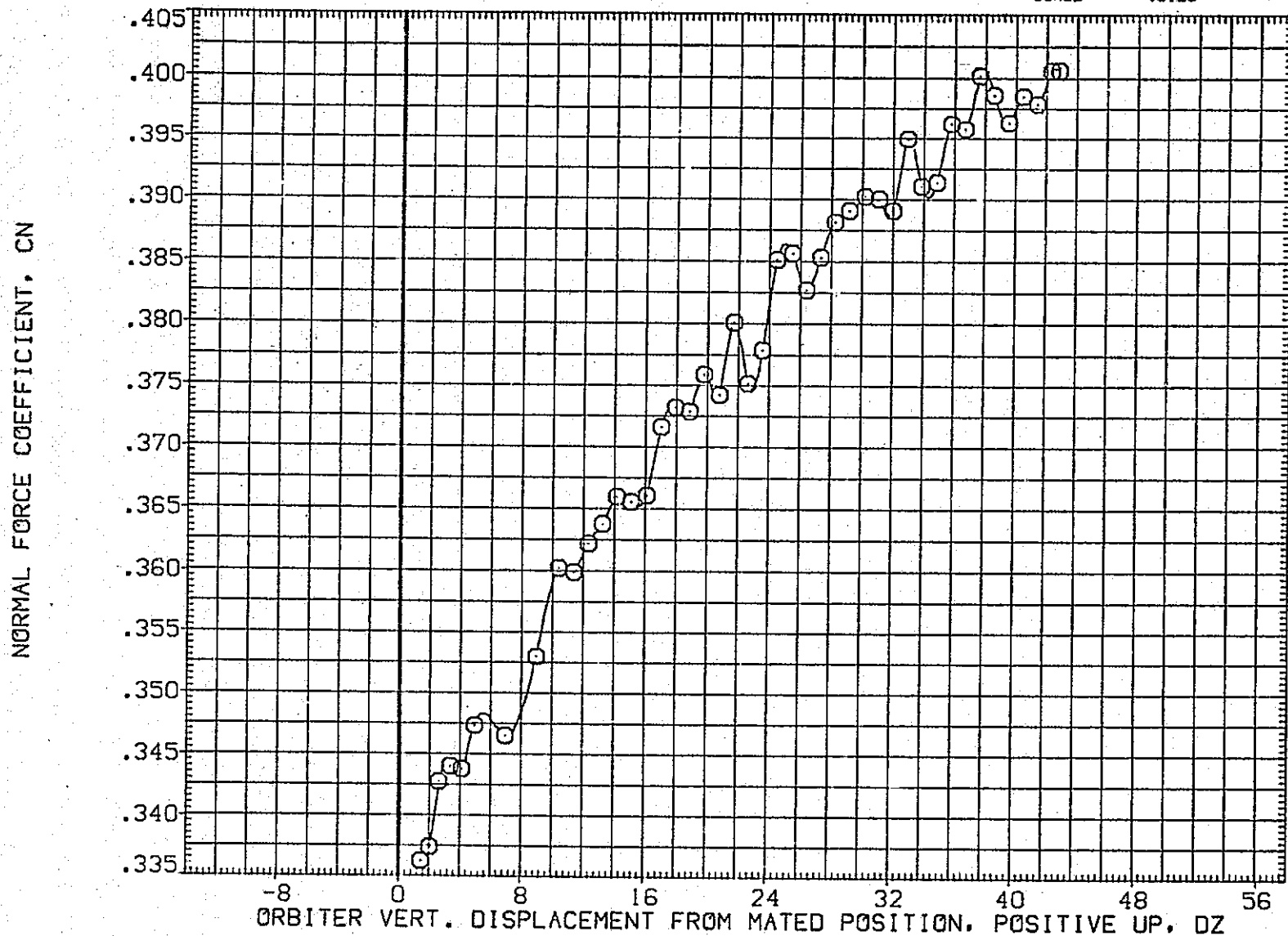


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.593	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

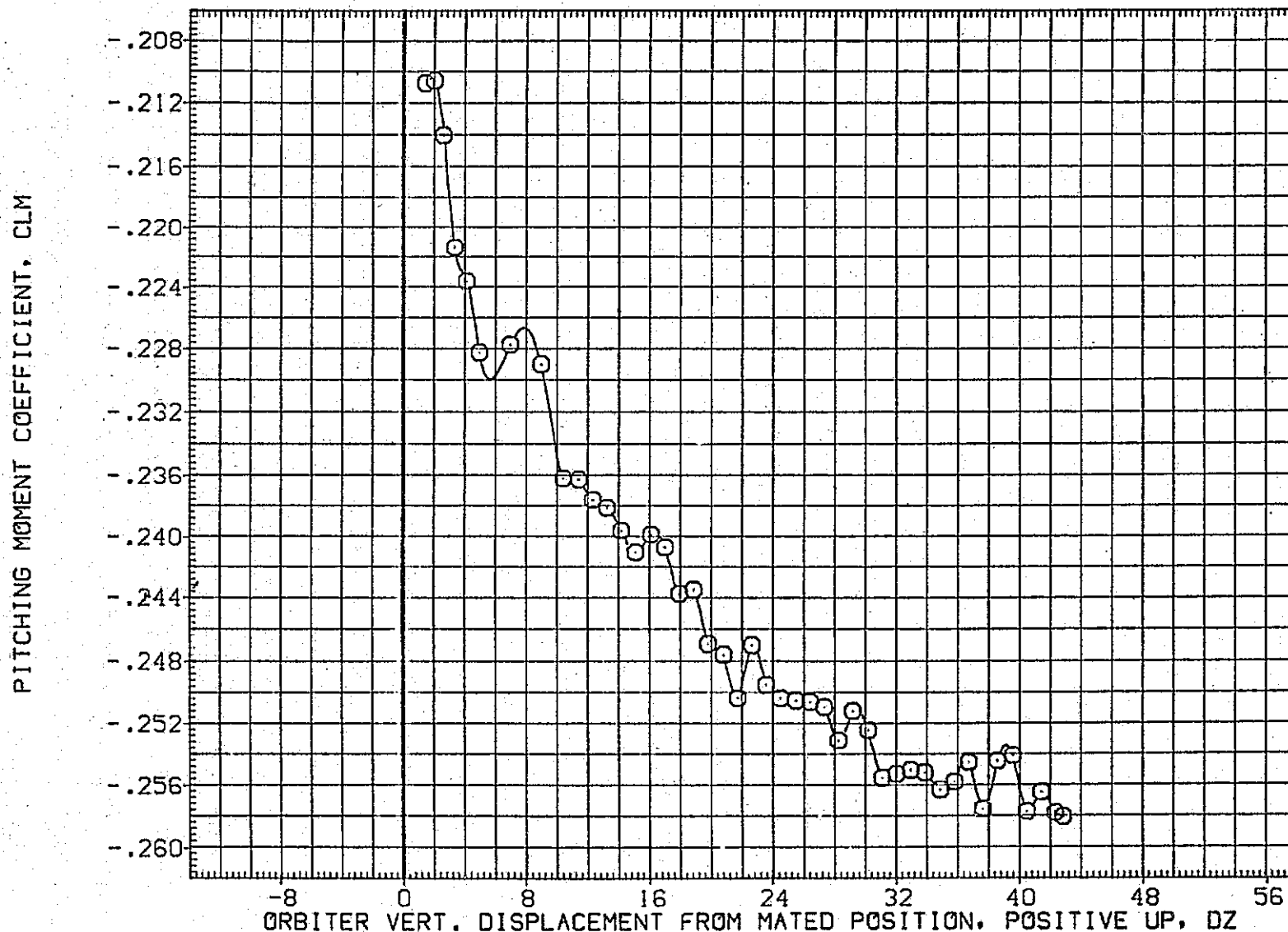


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE101)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

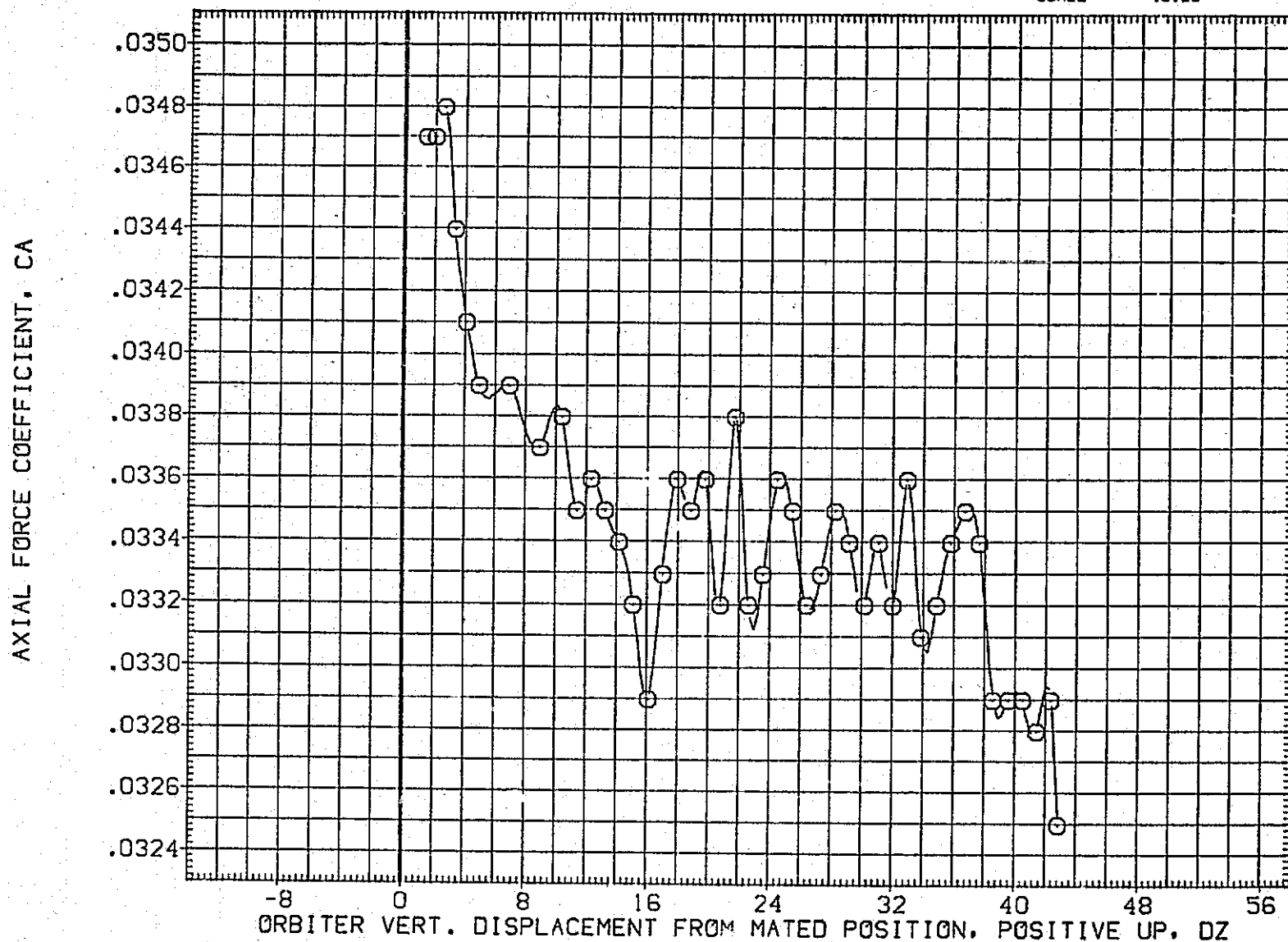


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

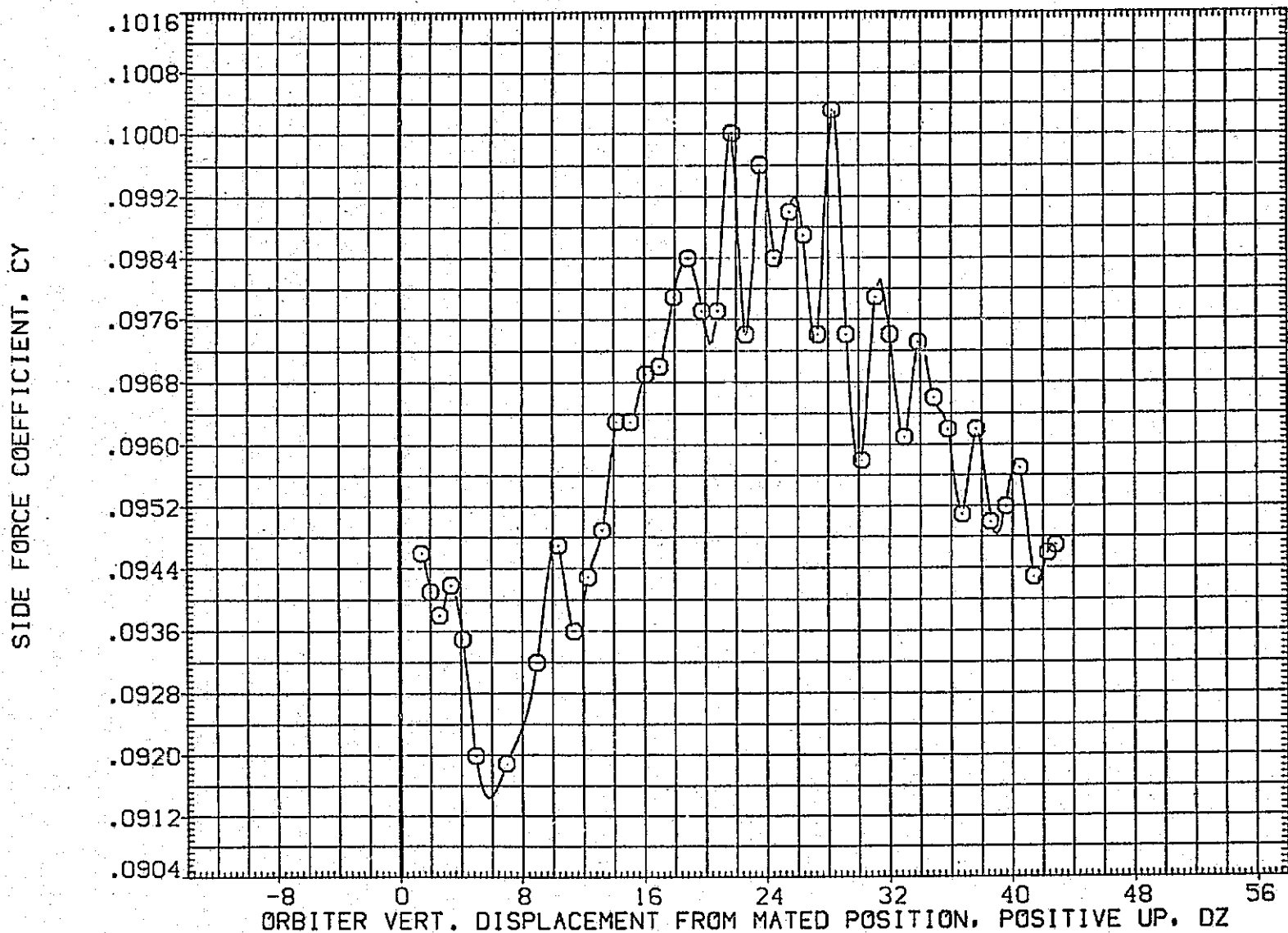


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE101)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.593	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

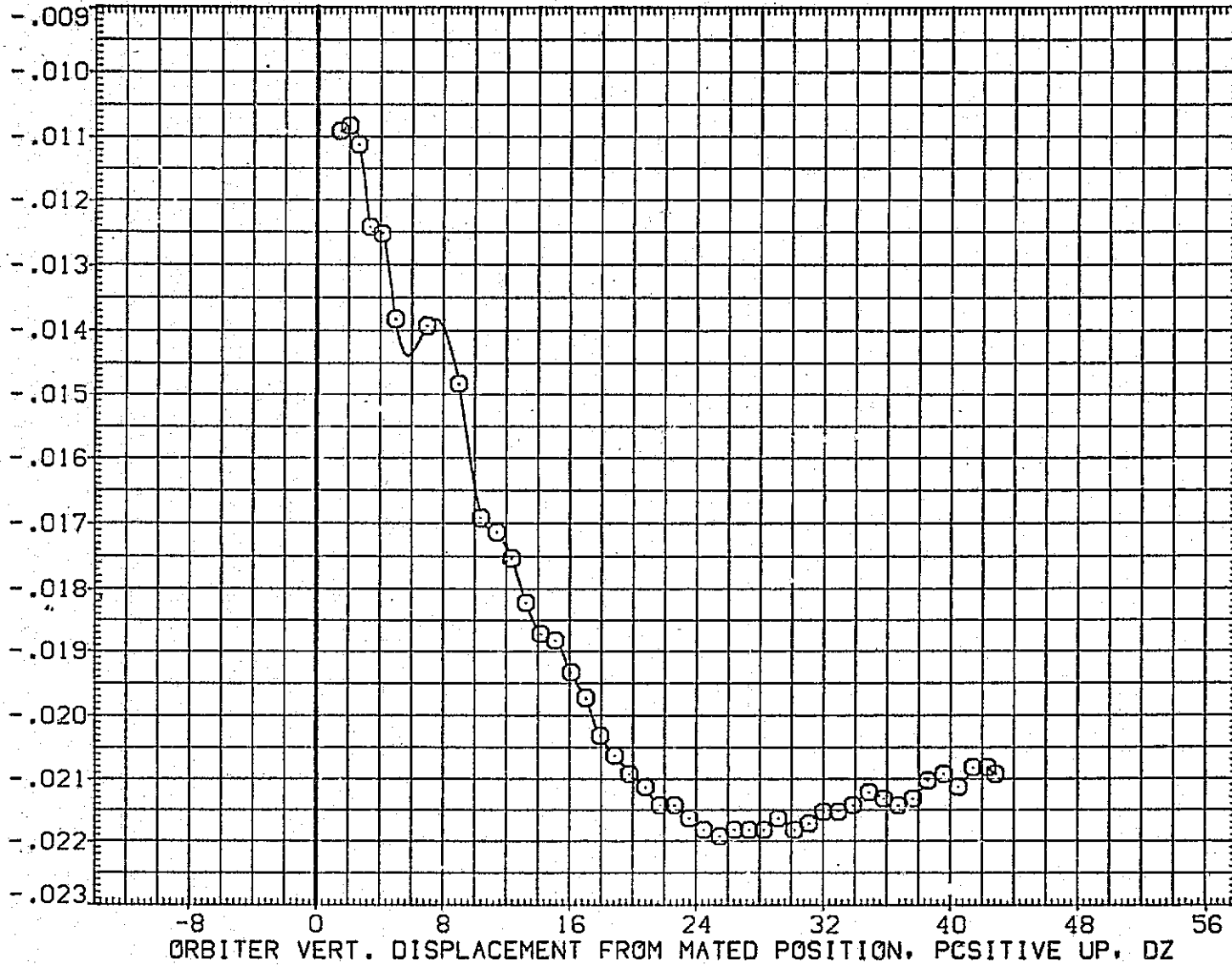


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

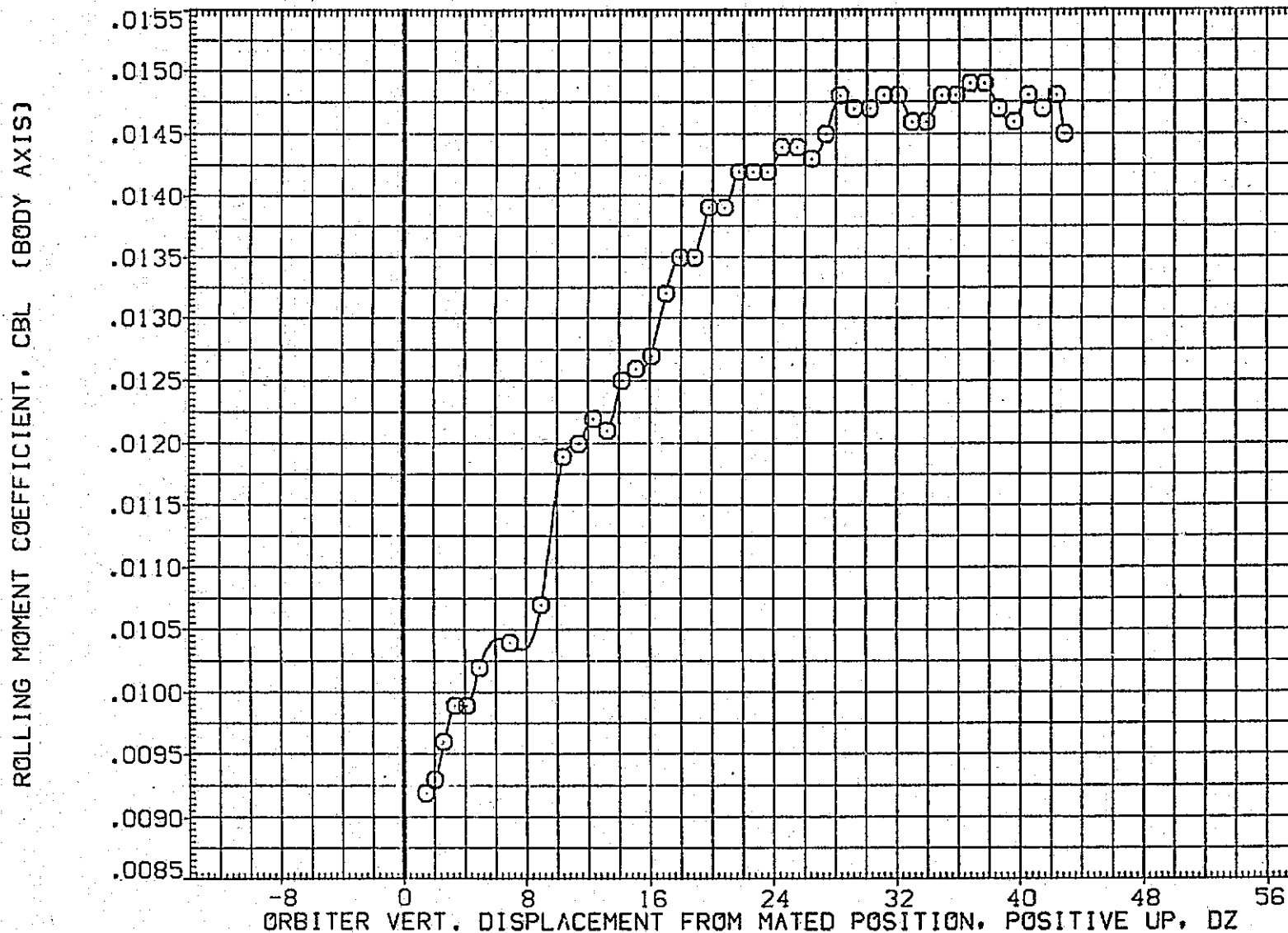


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE101)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.593	ALPHAC	4.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	4.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7600	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

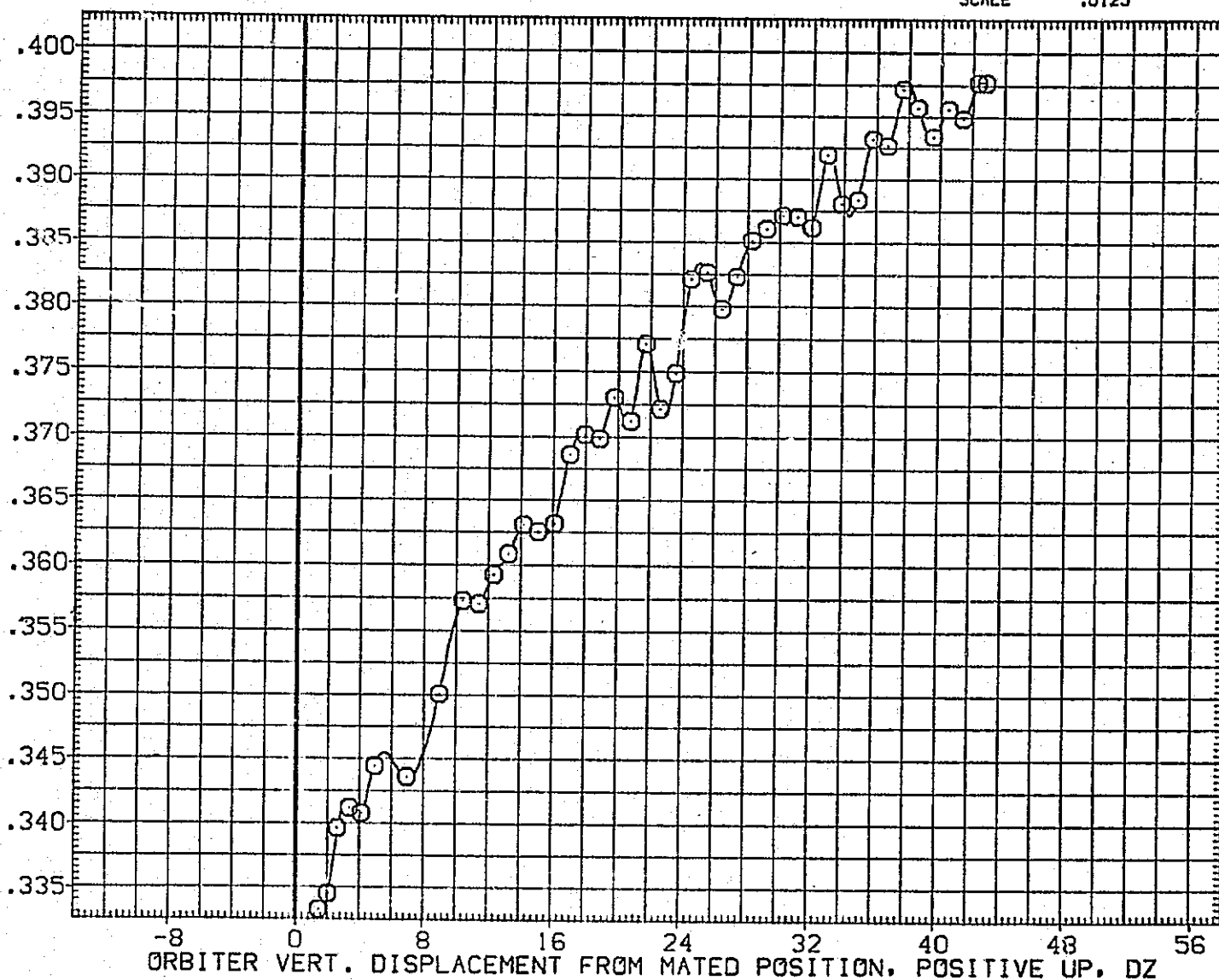


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		OY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

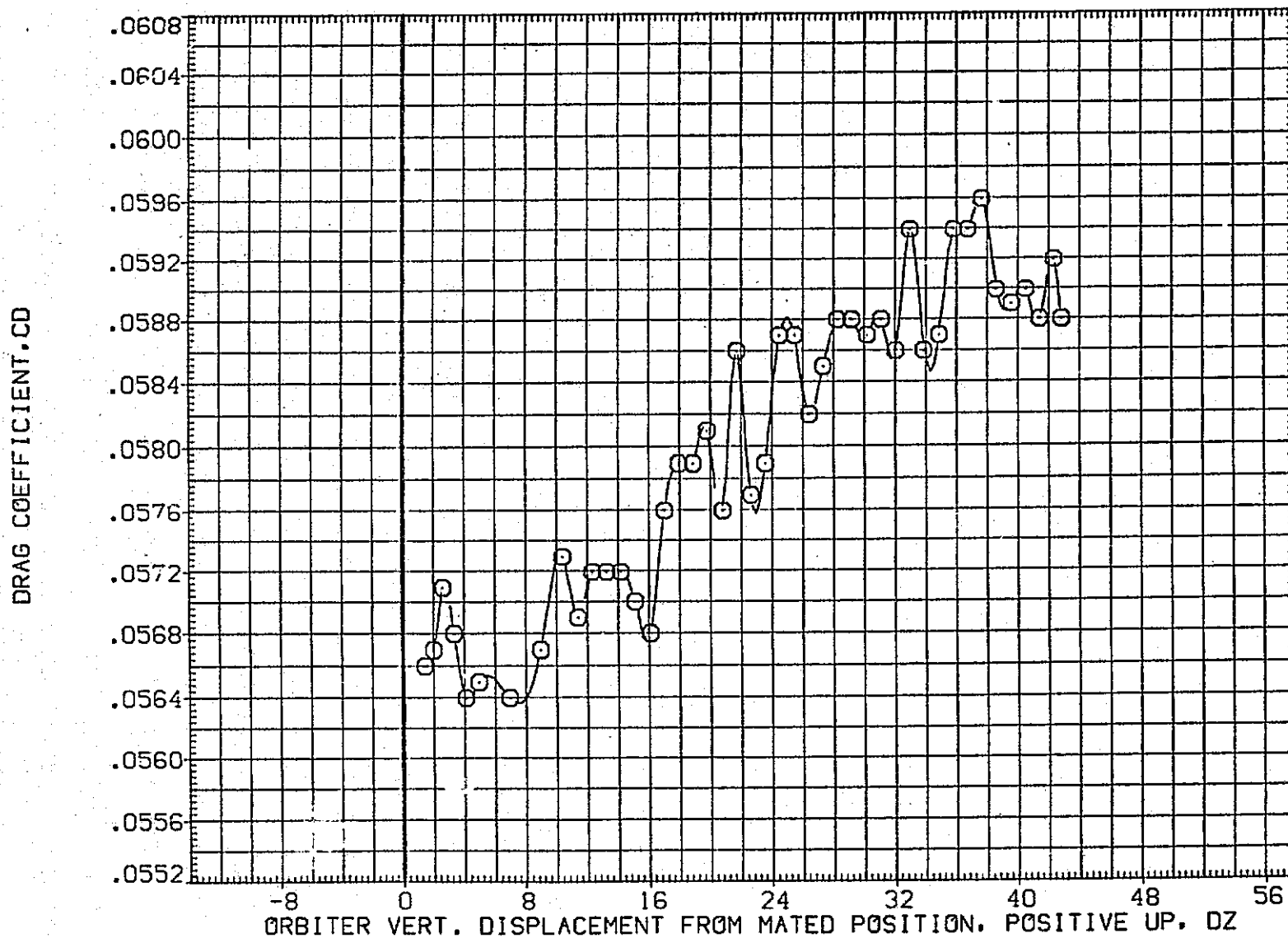


FIG.205 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=-5, BETA0=-5, RFE101

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE102)

SYMBOL
○

MACH
.593

PARAMETRIC VALUES

ALPHAC	4.000	BETAC	-5.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

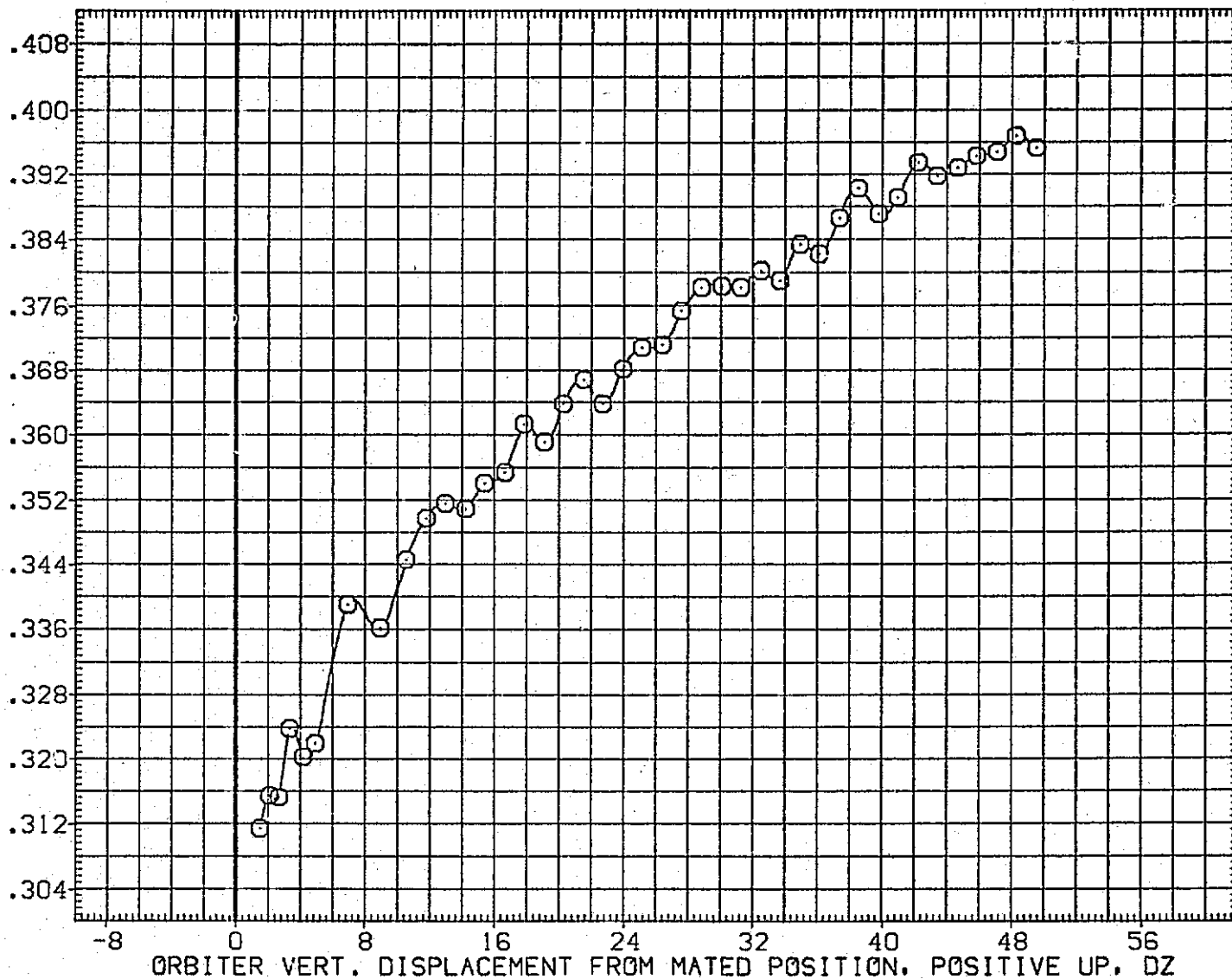


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

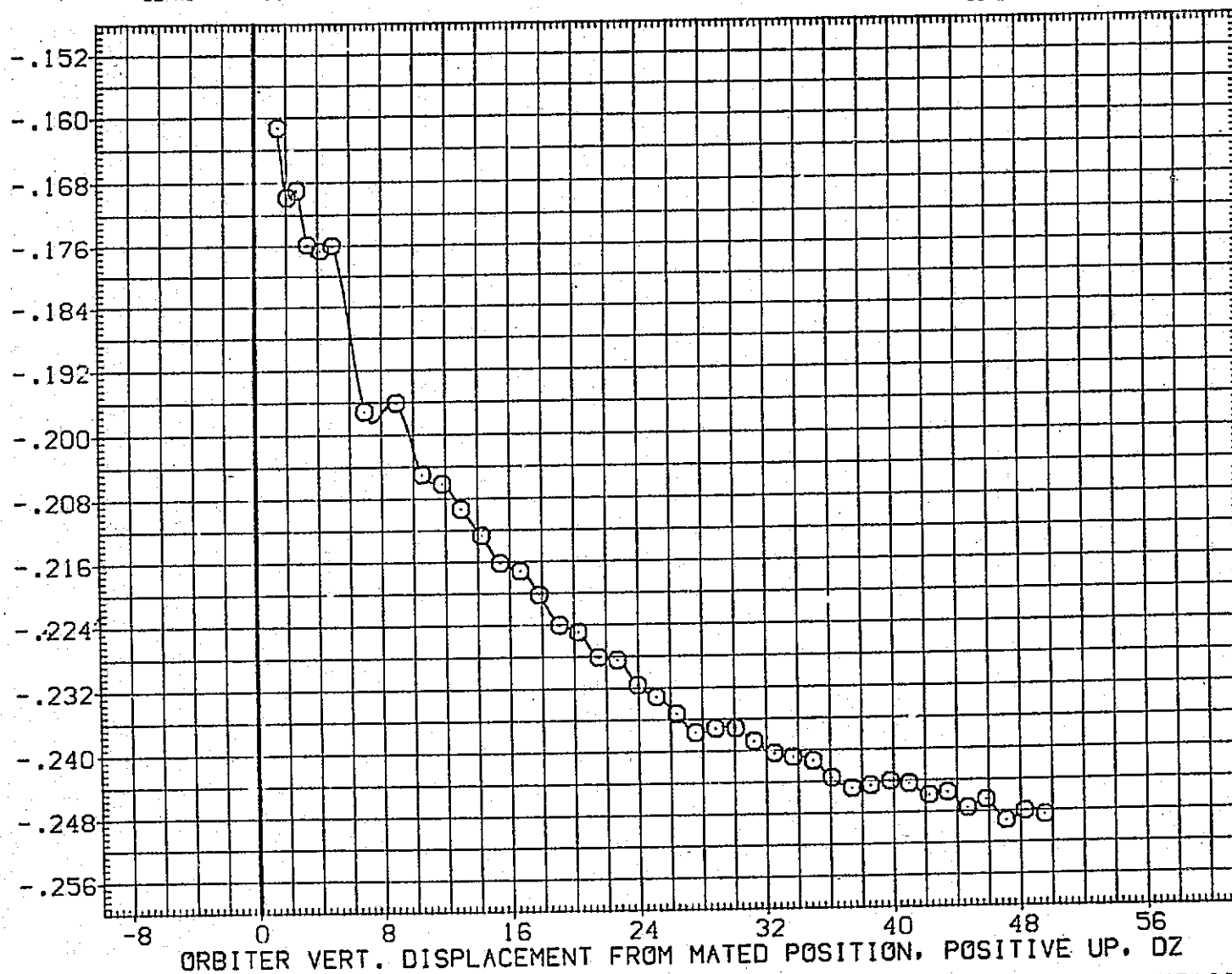


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE102)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	227.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

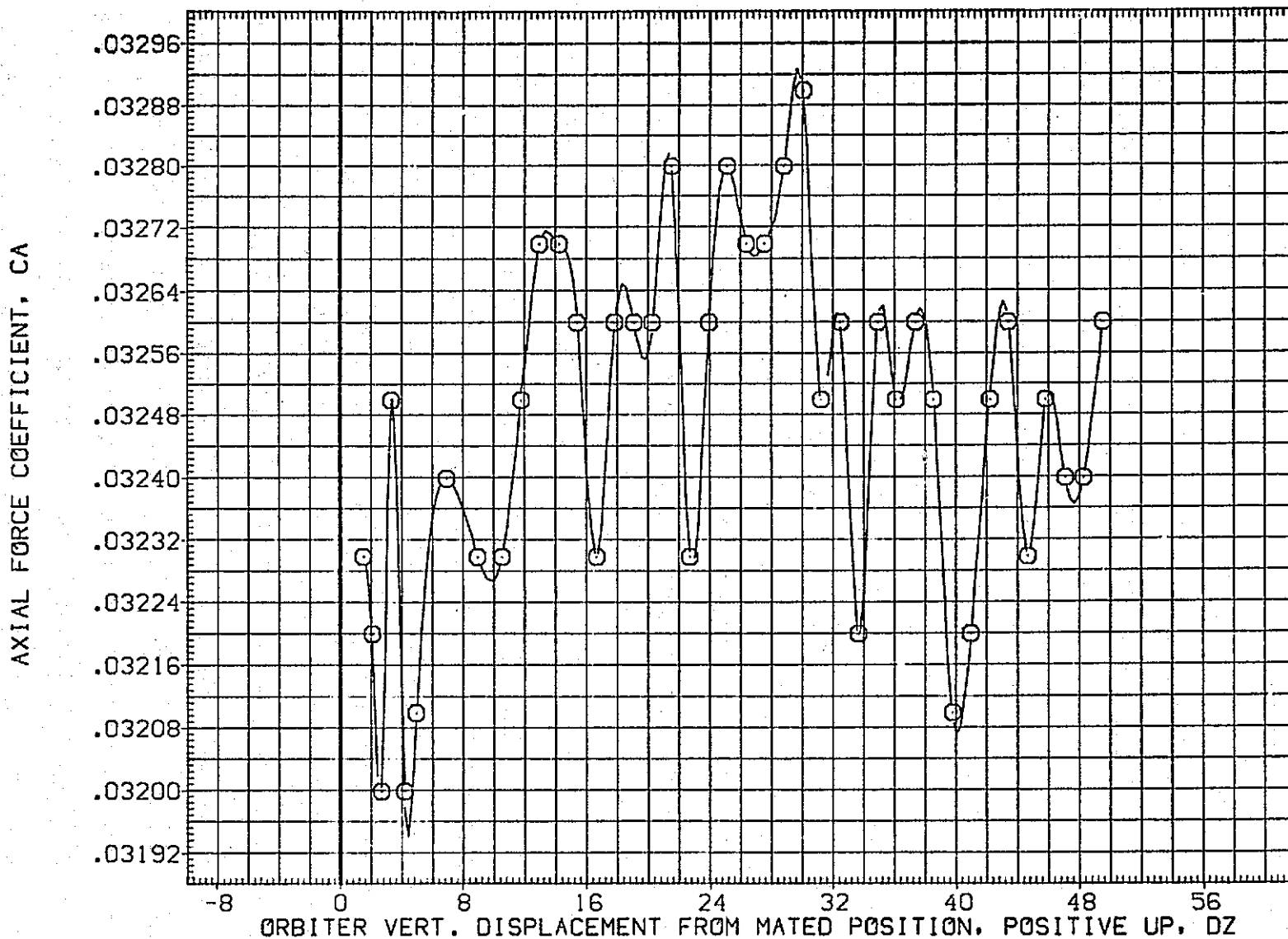


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

SYMBOL	MACH	PARAMETRIC VALUES			
○	.593	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
AMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

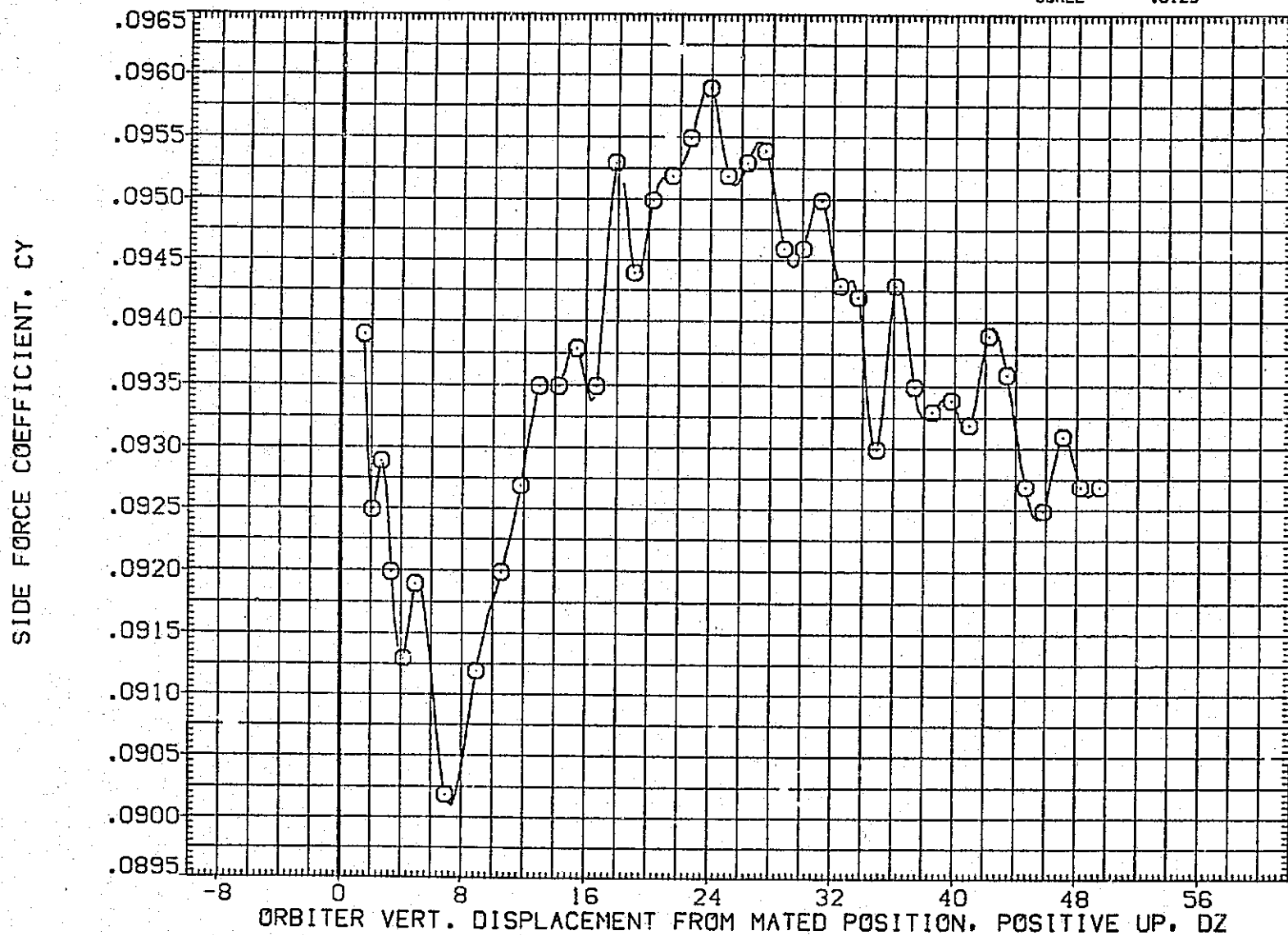


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE102)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.593	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000		.000	BREF	2348.0400	IN.
		DY	.000	IRB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

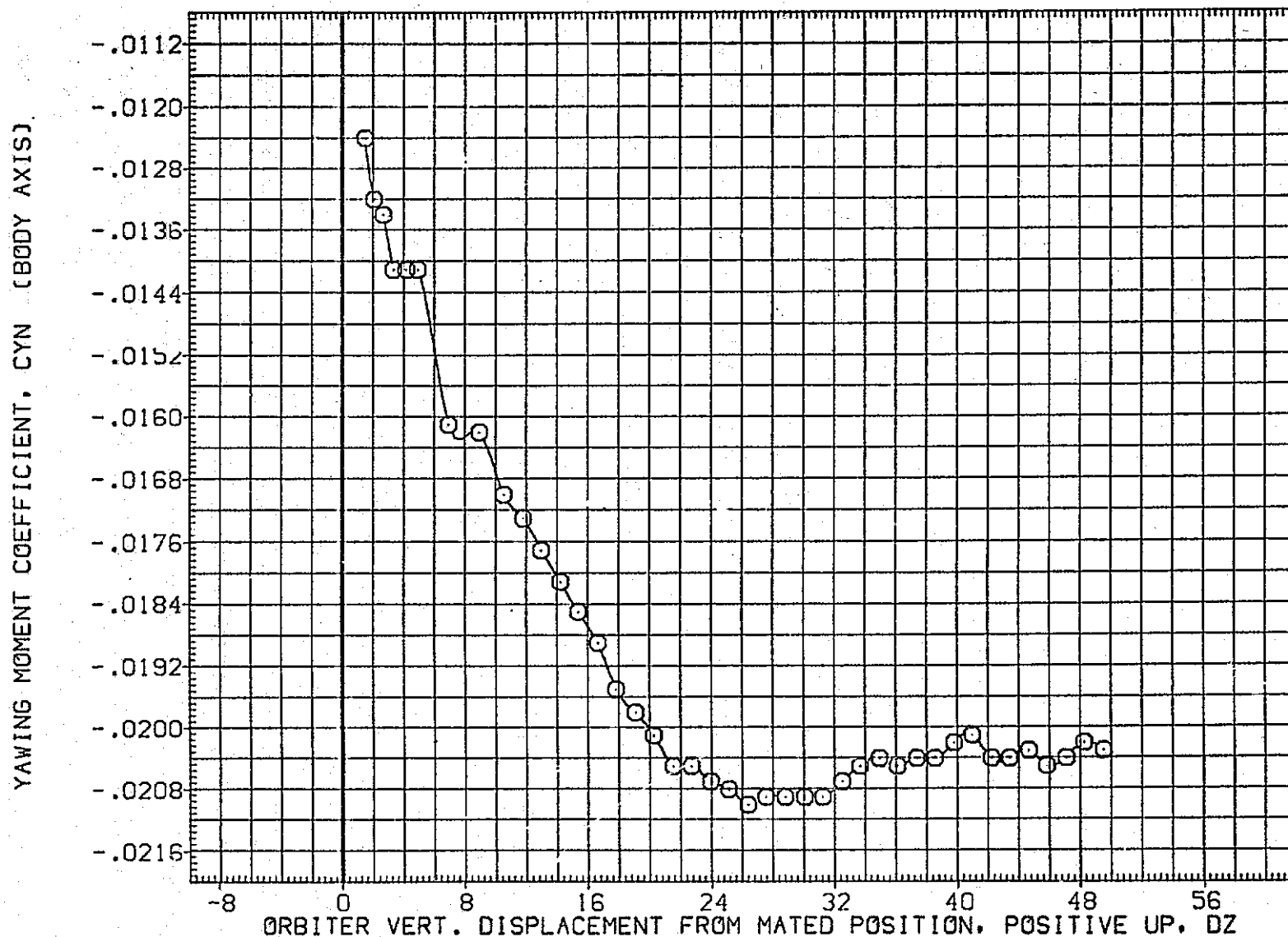


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.593	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CRL (BODY AXIS)

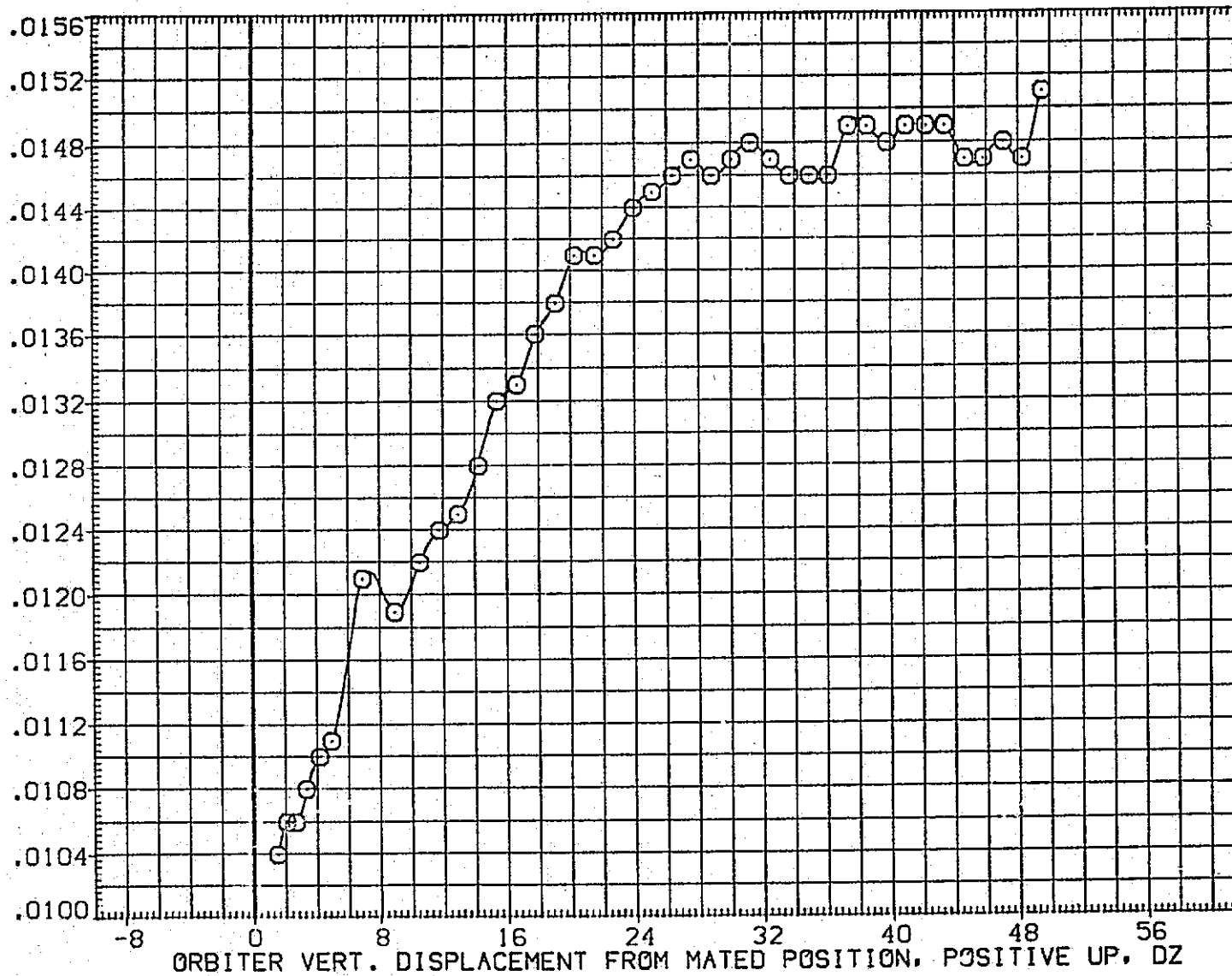


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE102)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.593	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	OX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

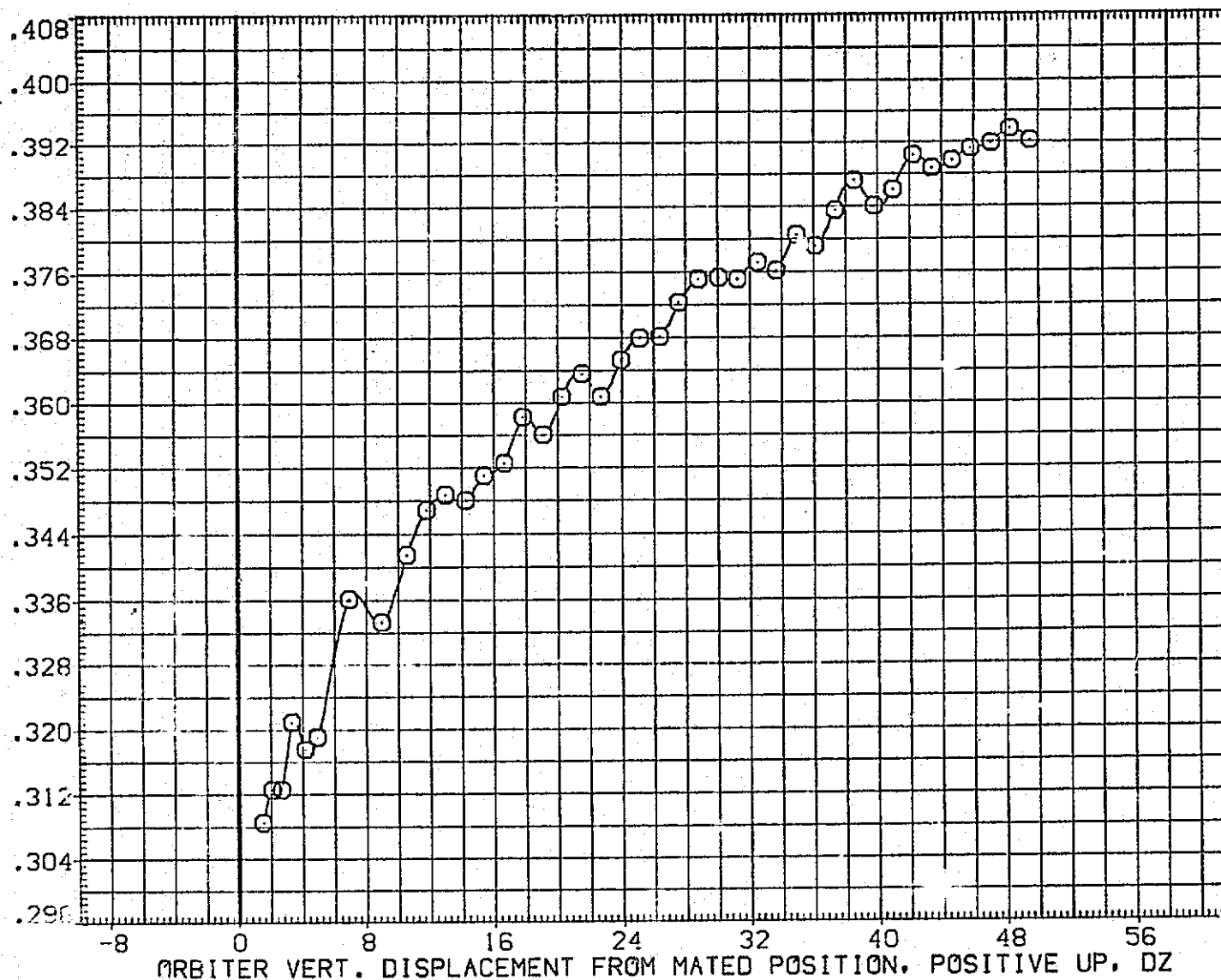


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

SYMBOL
○MACH
.593

PARAMETRIC VALUES			
ALPHAC	4.000	BETAC	-5.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

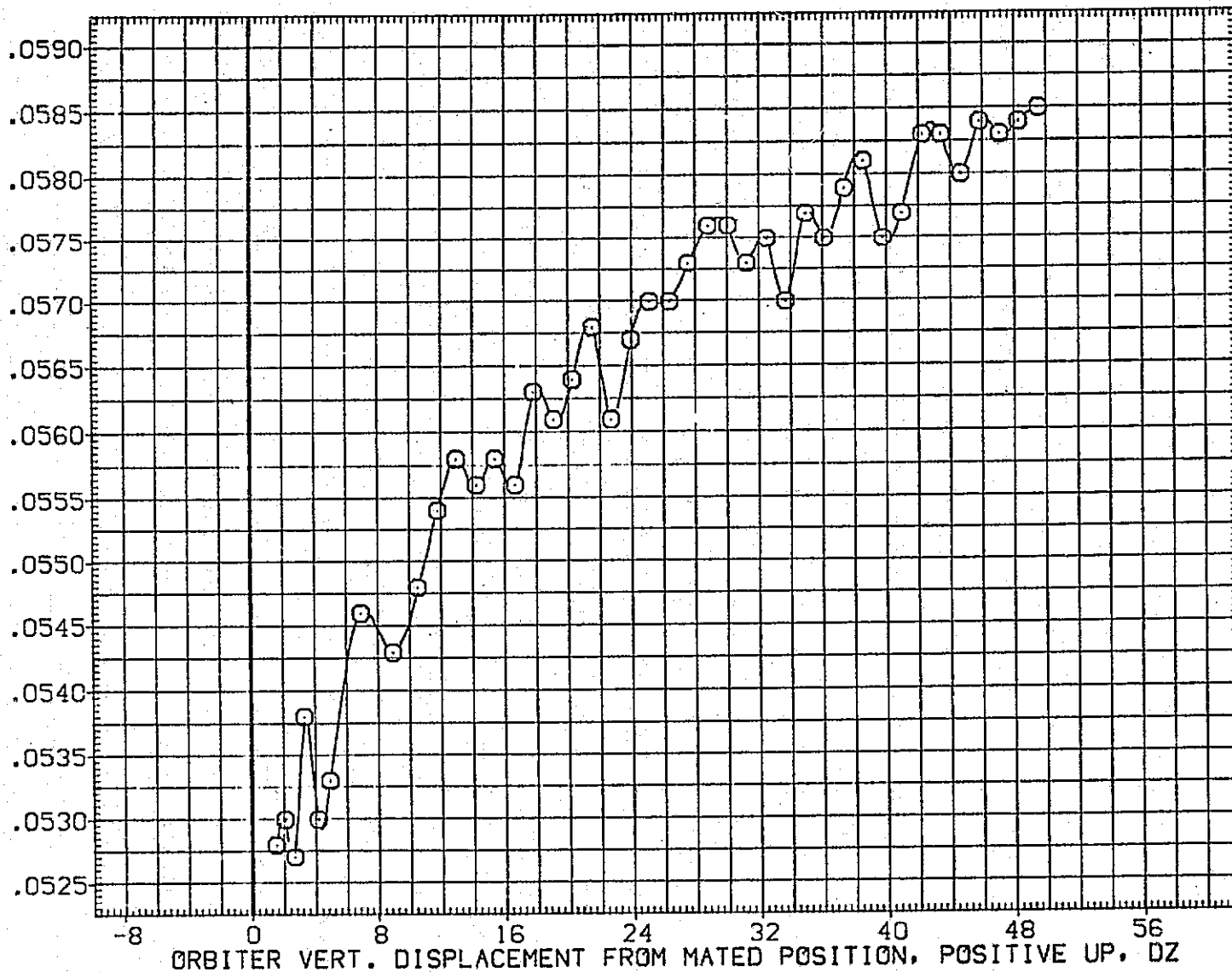


FIG.206 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=-5, BETA0=-5, RFE102

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE103)

SYMBOL	MACH	PARAMETRIC VALUES		
○	.600	ALPHAC 4.000	BETAC -5.000	
		STAB 5.000	ELEVON 5.000	
		BDFLAP .000	DX .000	
		DY .000	IORB 8.000	
		BETA0 -5.000	RUDDER .000	

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

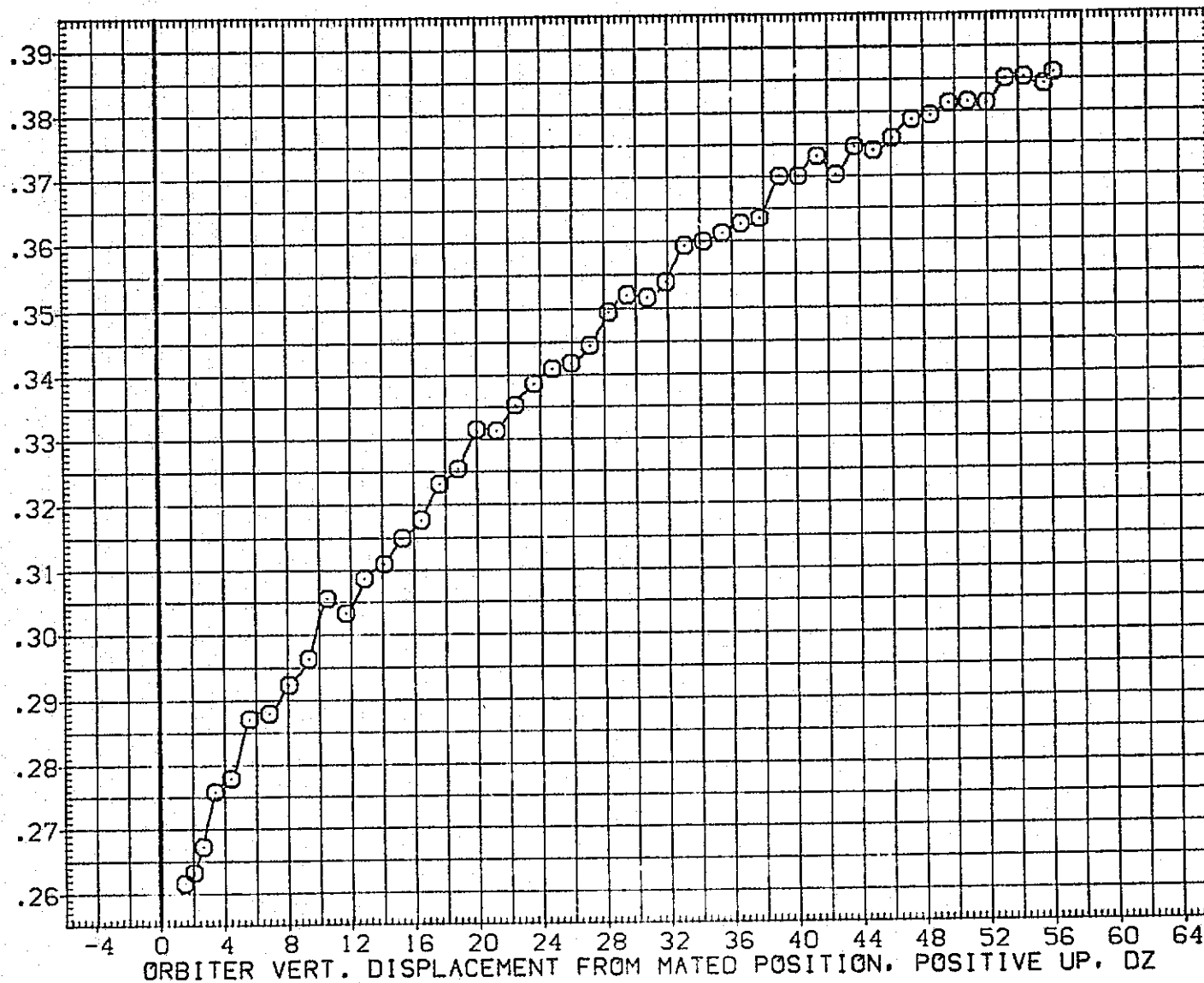


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMMP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMMP	.0000	IN. YC
						ZMMP	190.7500	IN. ZC
						SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

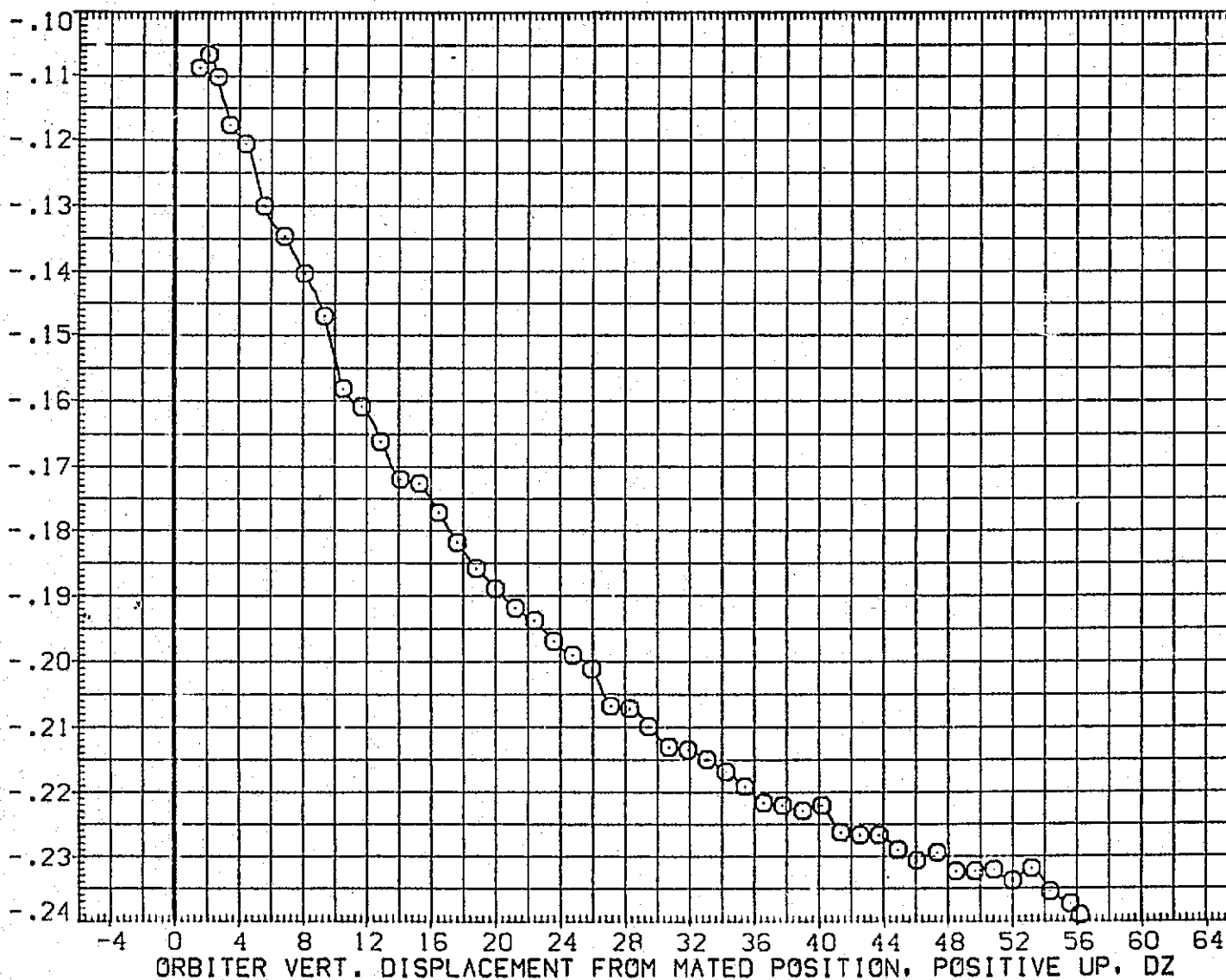


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE103)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETAC	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

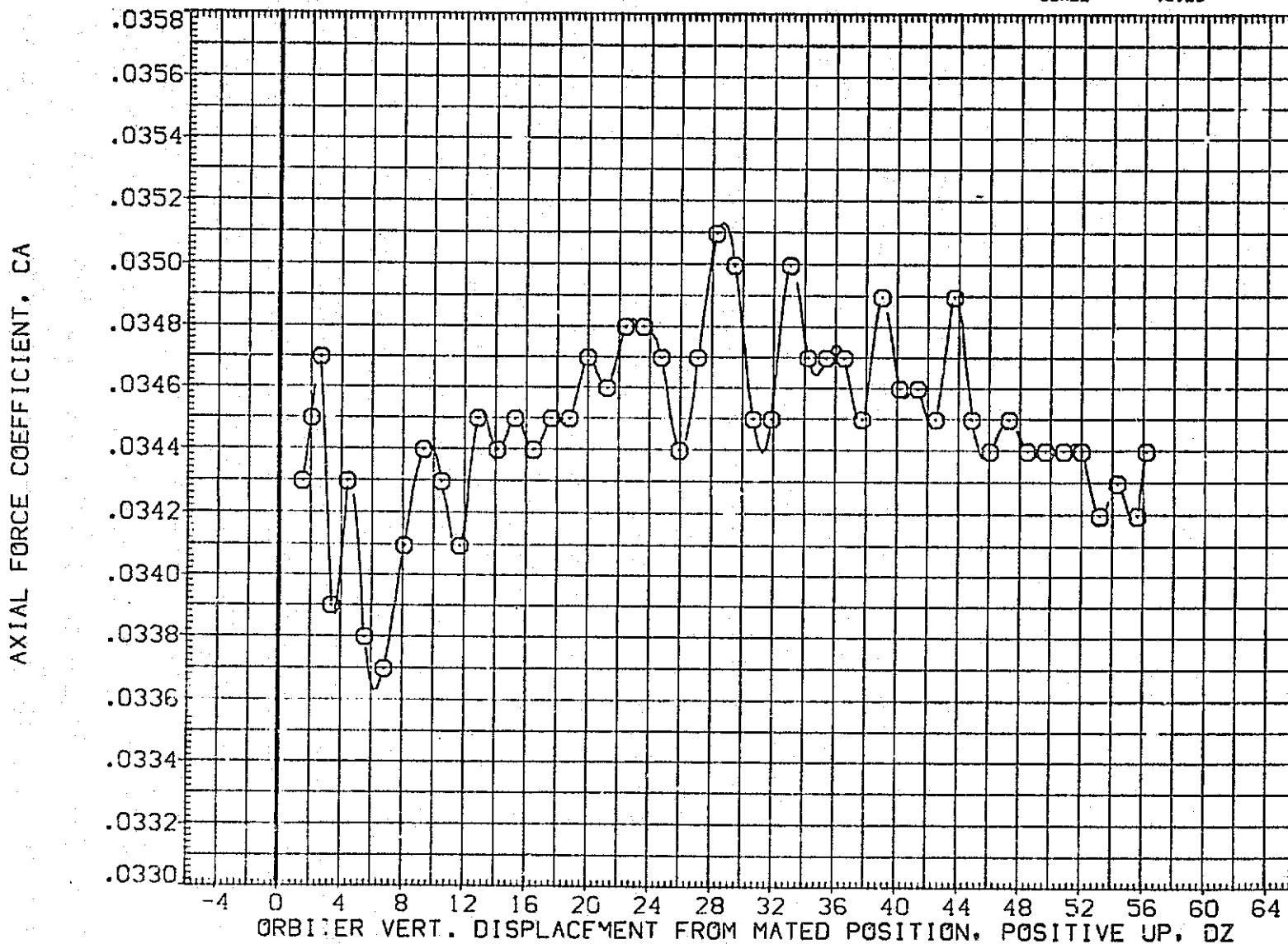


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

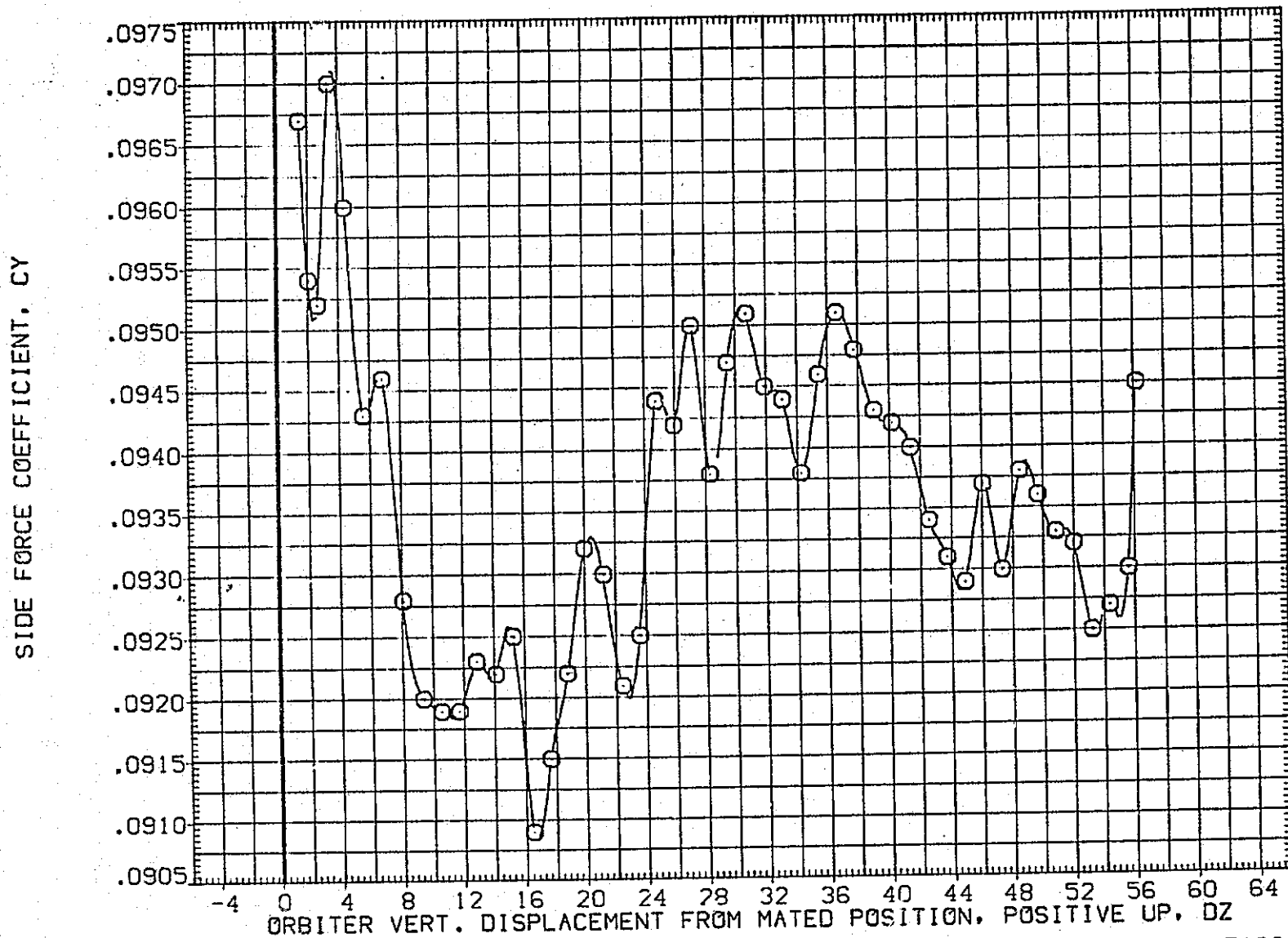


FIG. 207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE103)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

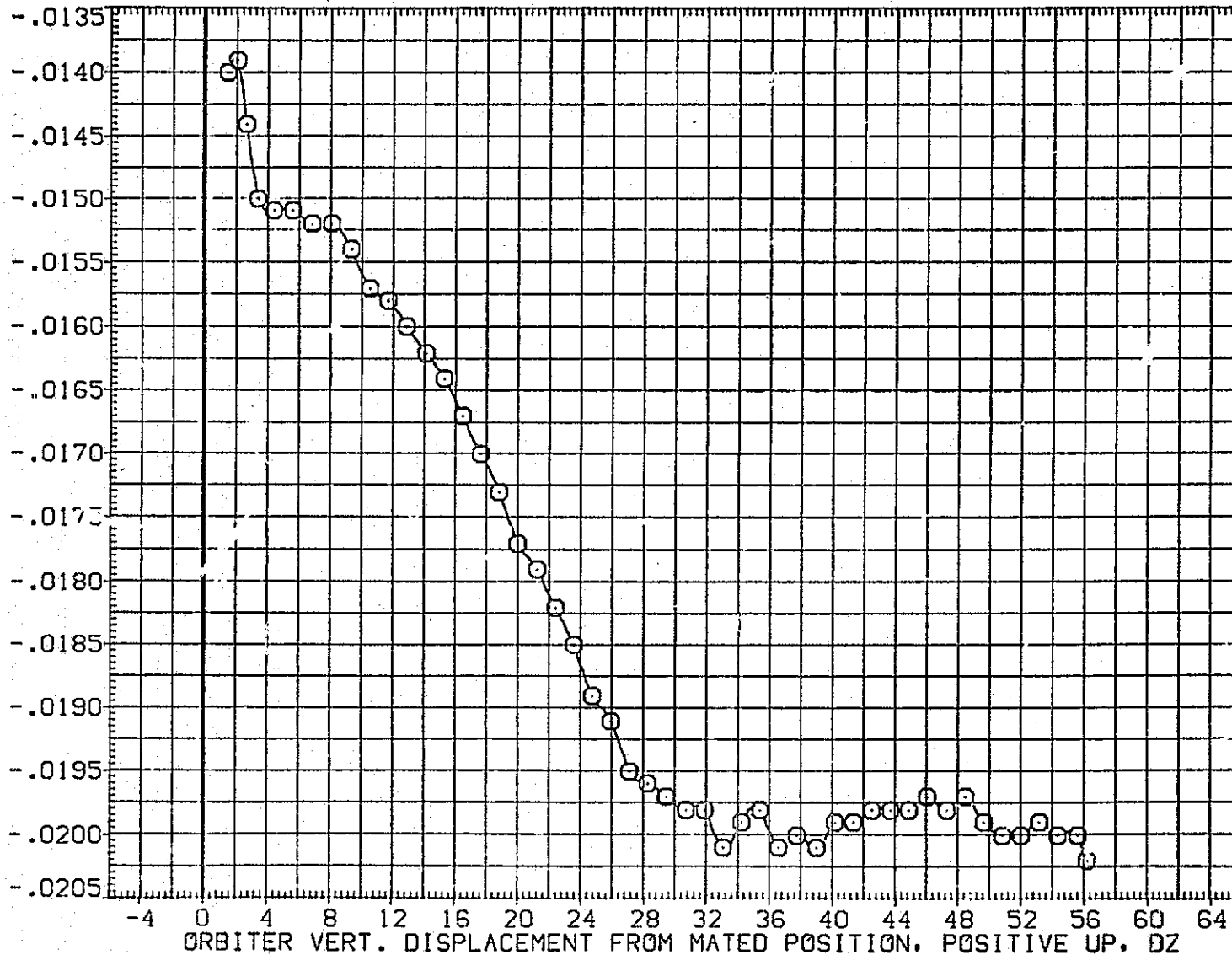


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	4.000	BETAC	-5.000	SREF	5500.0000	SG.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

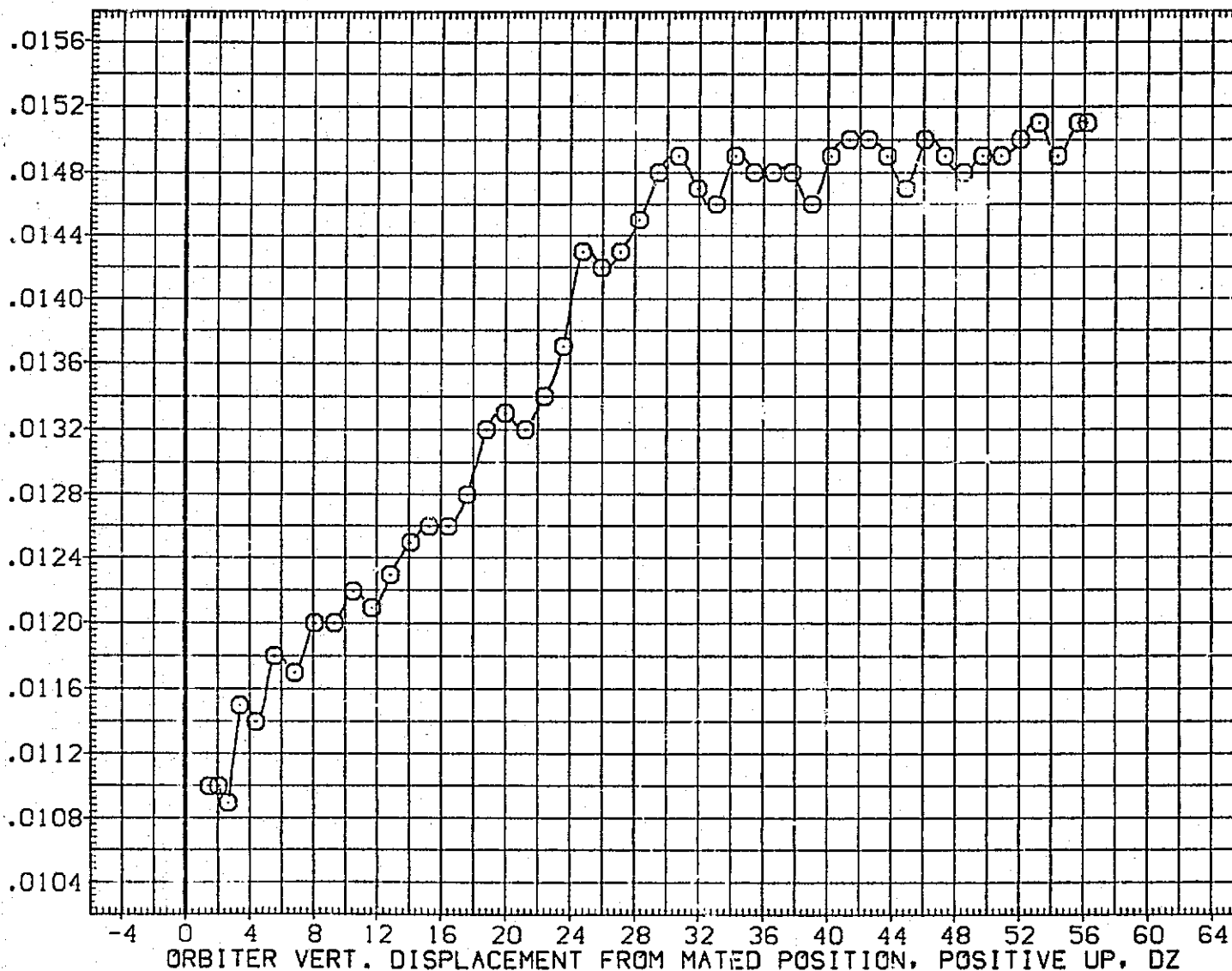


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE103)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SO.FT.
○	.600	4.000	-5.000	5.000	.000	5500.0000	IN.	
		STAB		5.000	.000	327.7800	IN.	
		BDFLAP			.000	2348.0400	IN.	
		DY			.000	1339.9000	IN.	XC
		BETA0			8.000	YMRP	IN.	YC
					.000	ZMRP	IN.	ZC
					.000	SCALE		
						190.7500		
						.0125		

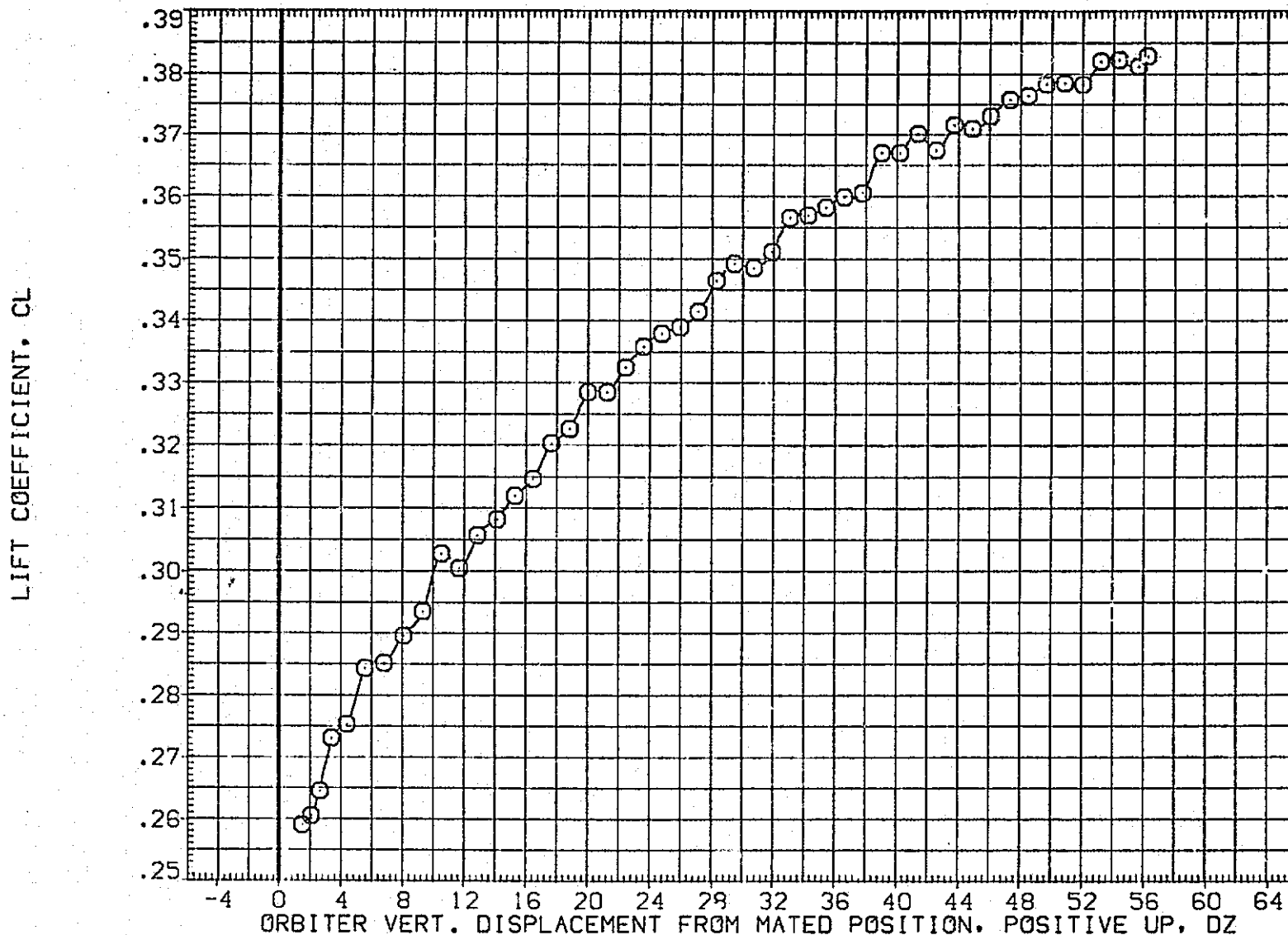


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	4.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

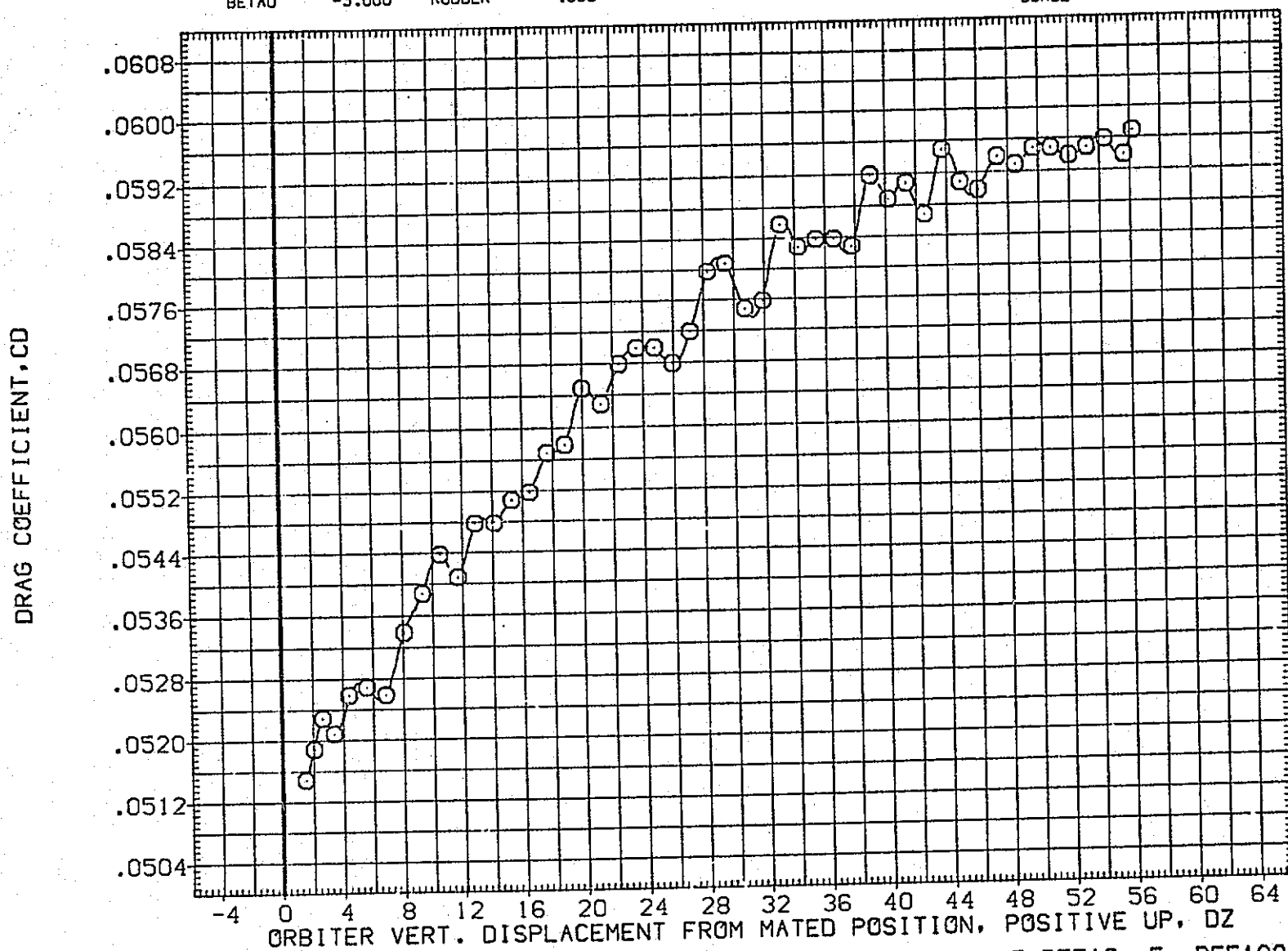


FIG.207 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=-5, BETA0=-5, RFE103

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE104)

SYMBOL



MACH

.599

PARAMETRIC VALUES

ALPHAC	5.500	BETAC	.000
STAB	5.000	ELEVON	5.000
BDFLAP	.000	DX	.000
DY	.000	IORB	6.000
BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

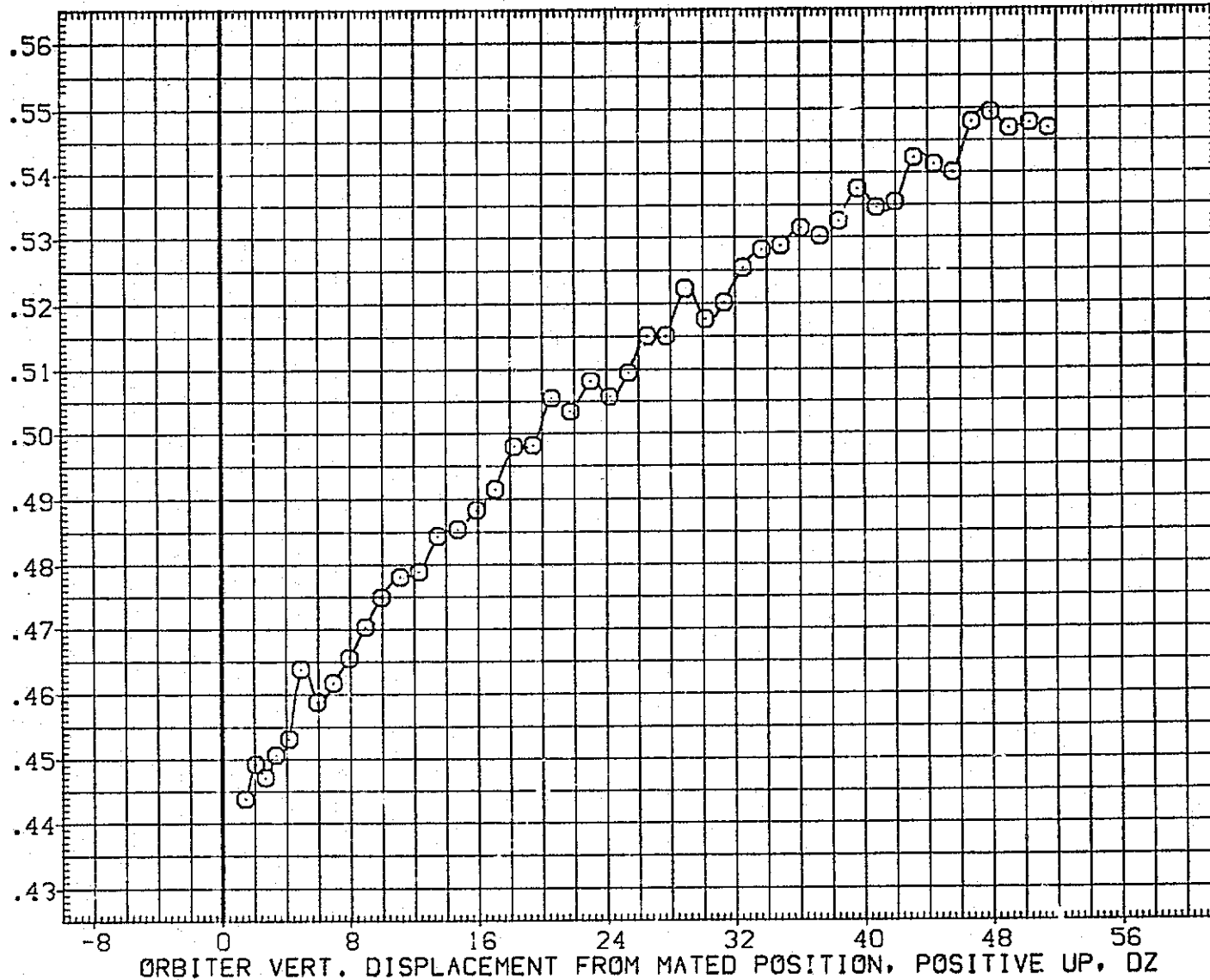


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	5.500	BETAC	.000
		STAB	5.000	ELEVGN	5.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

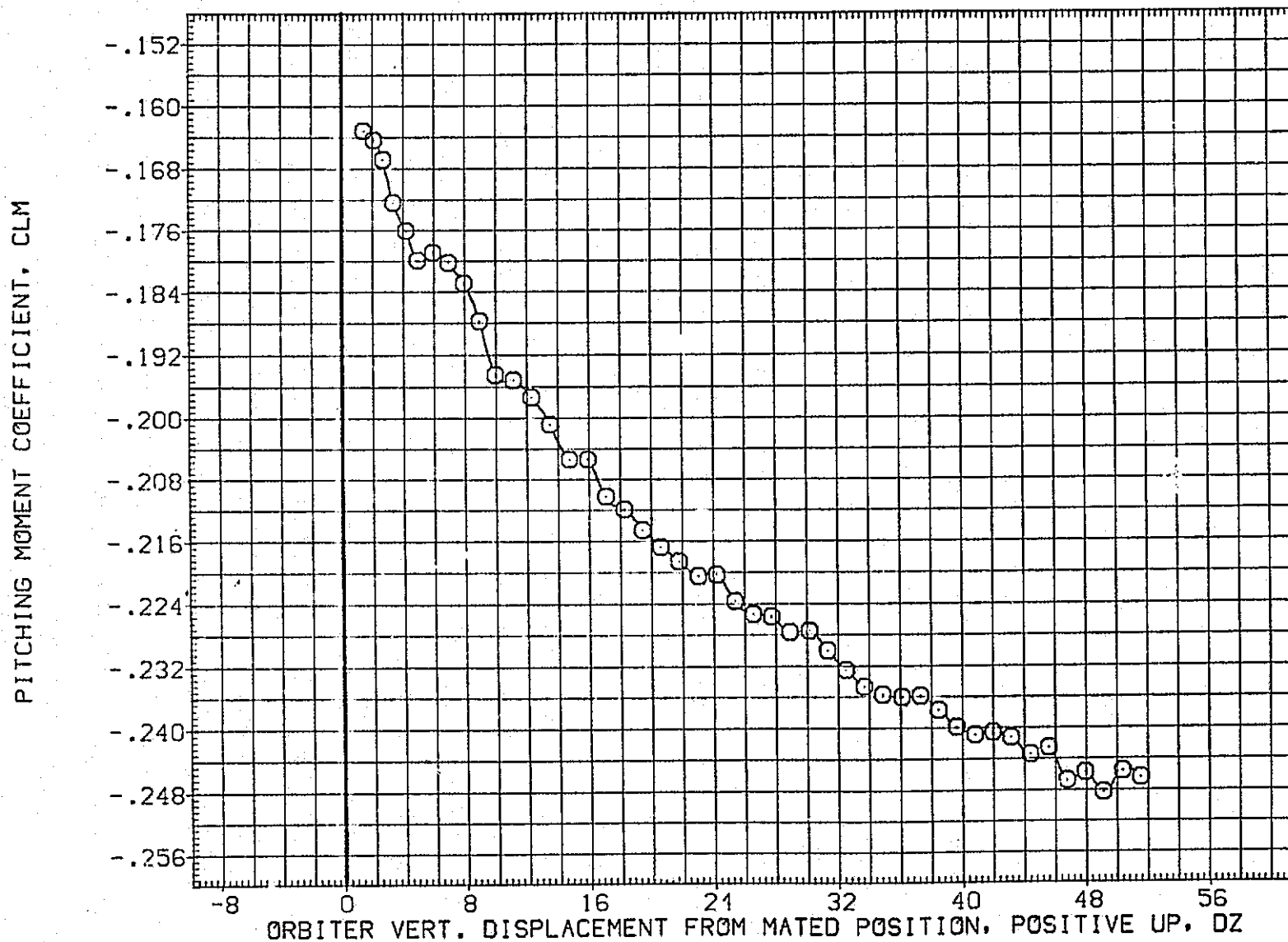


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE104)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	5.500	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

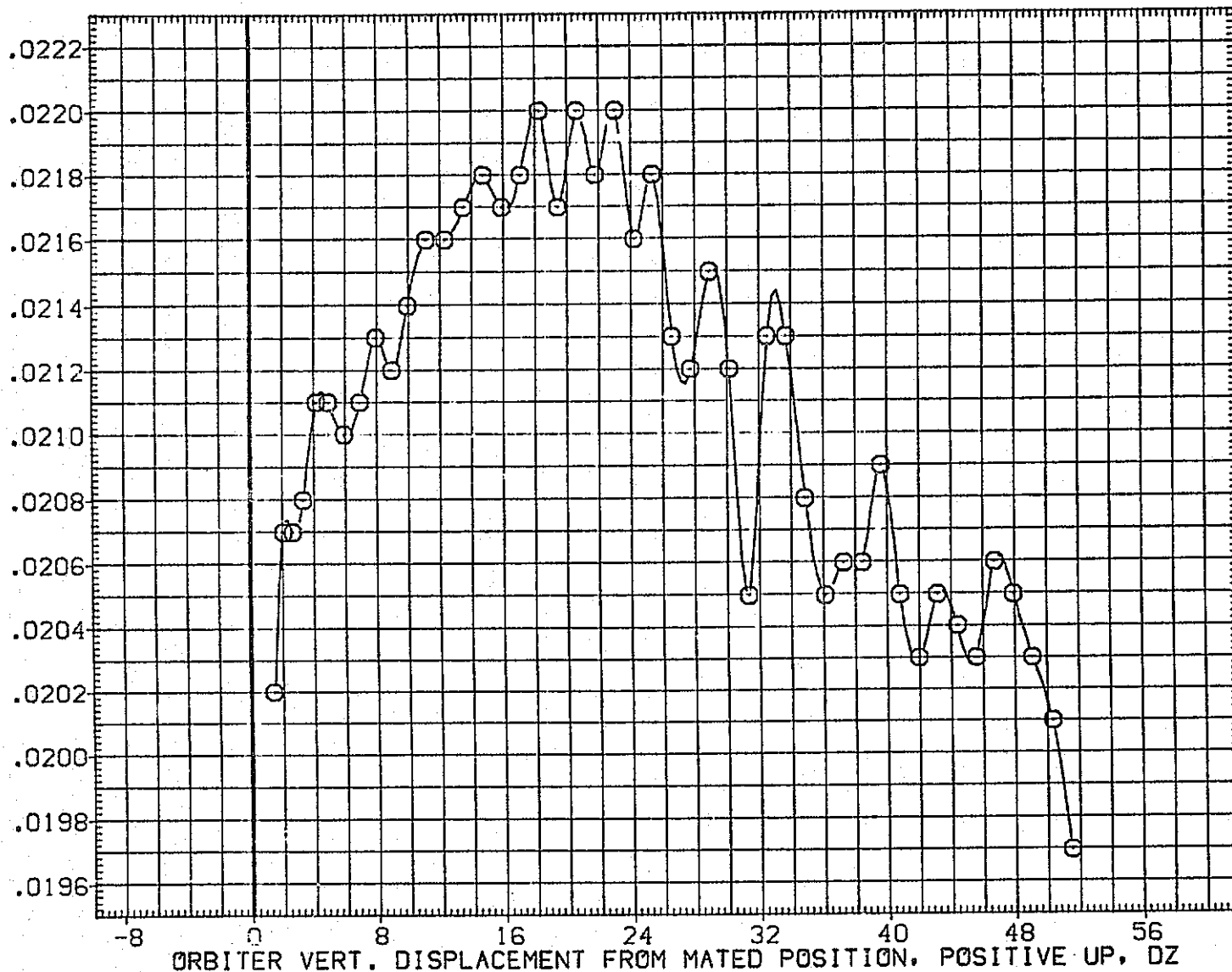


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	5.500	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

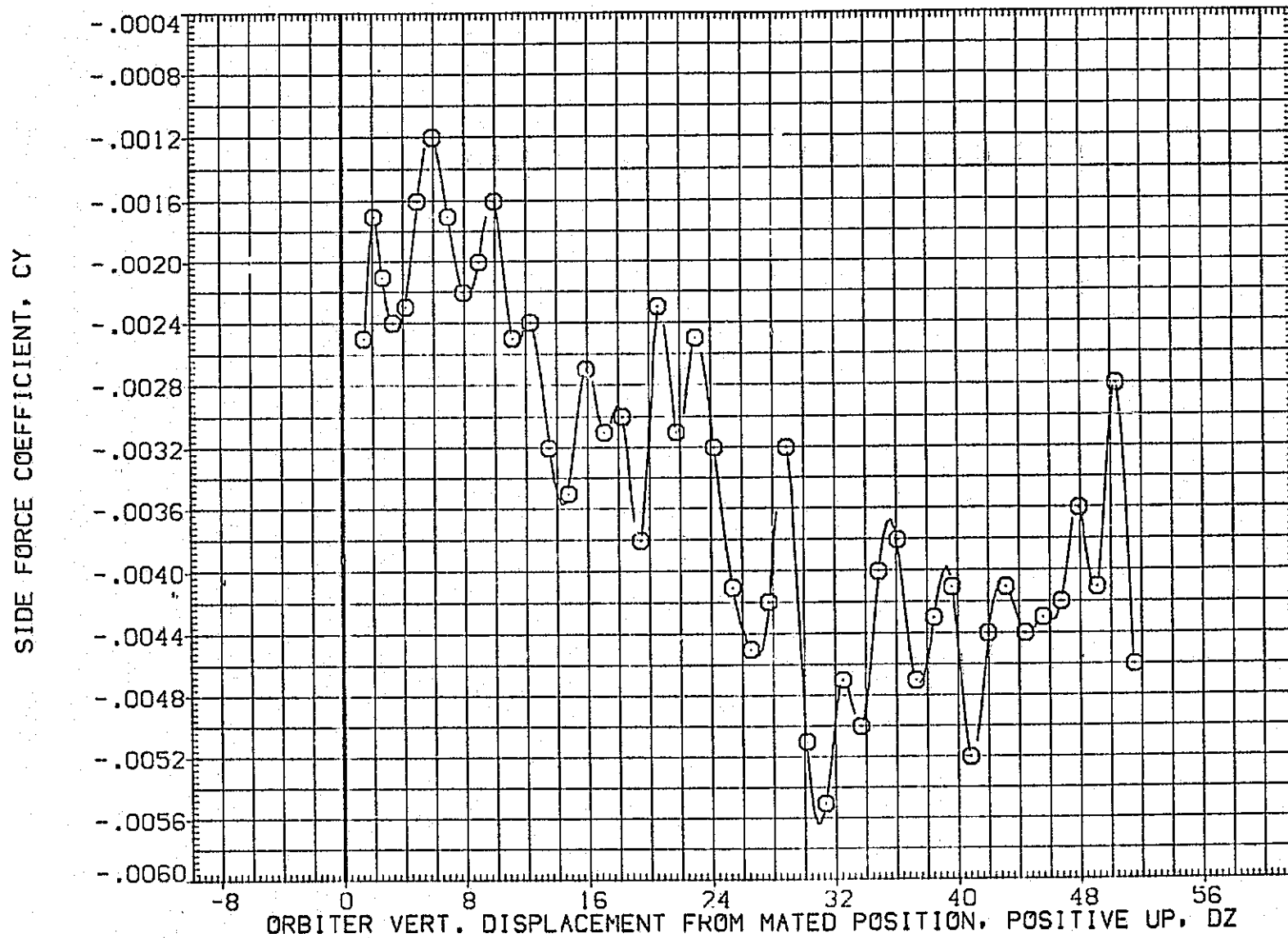


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE104)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.599	ALPHAC	5.500	BETAC	.000	SREF	5500.0000	SO.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

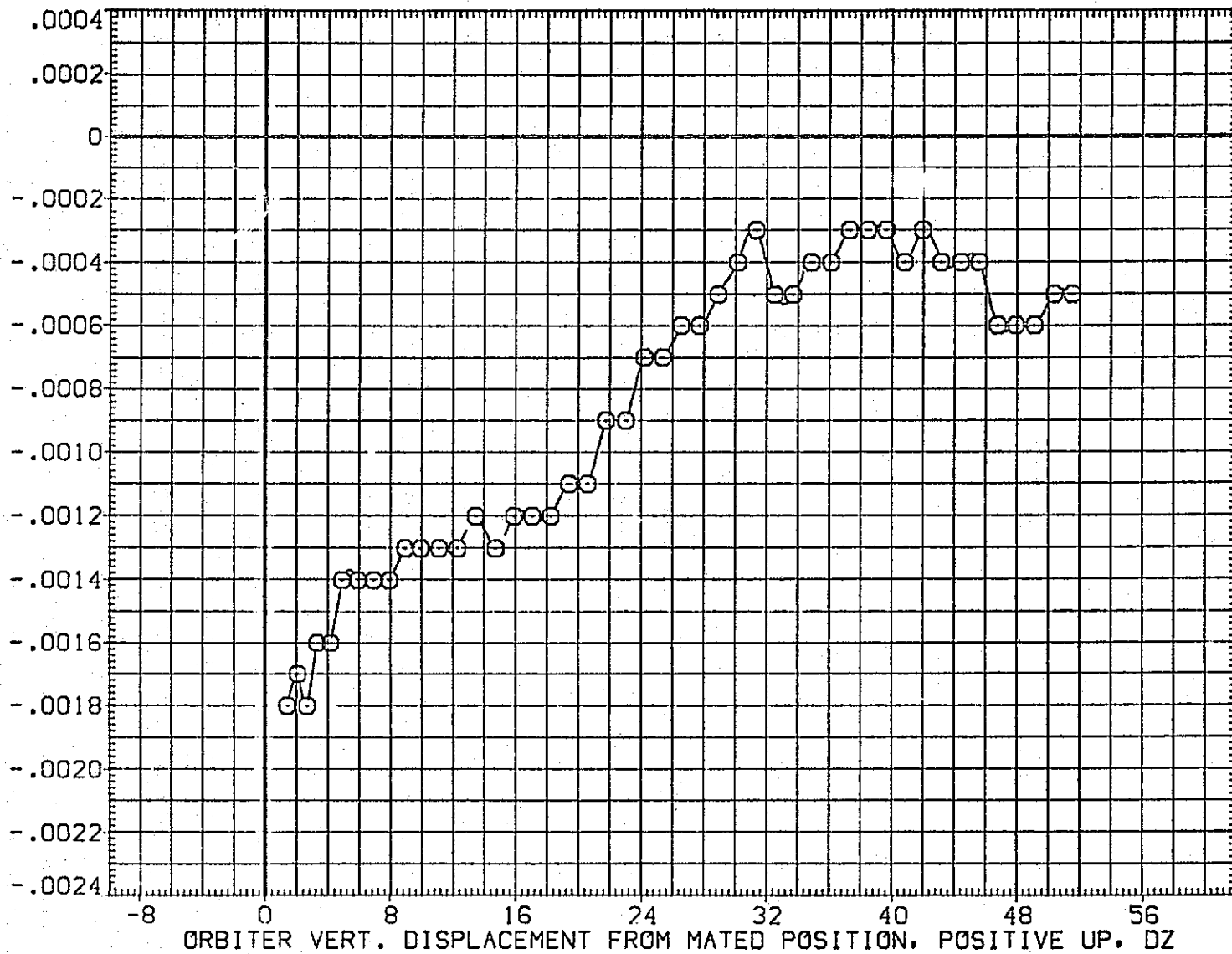


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

SYMBOL	MACH	PARAMETRIC VALUES			
○	.599	ALPHAC	5.500	BETAC	.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

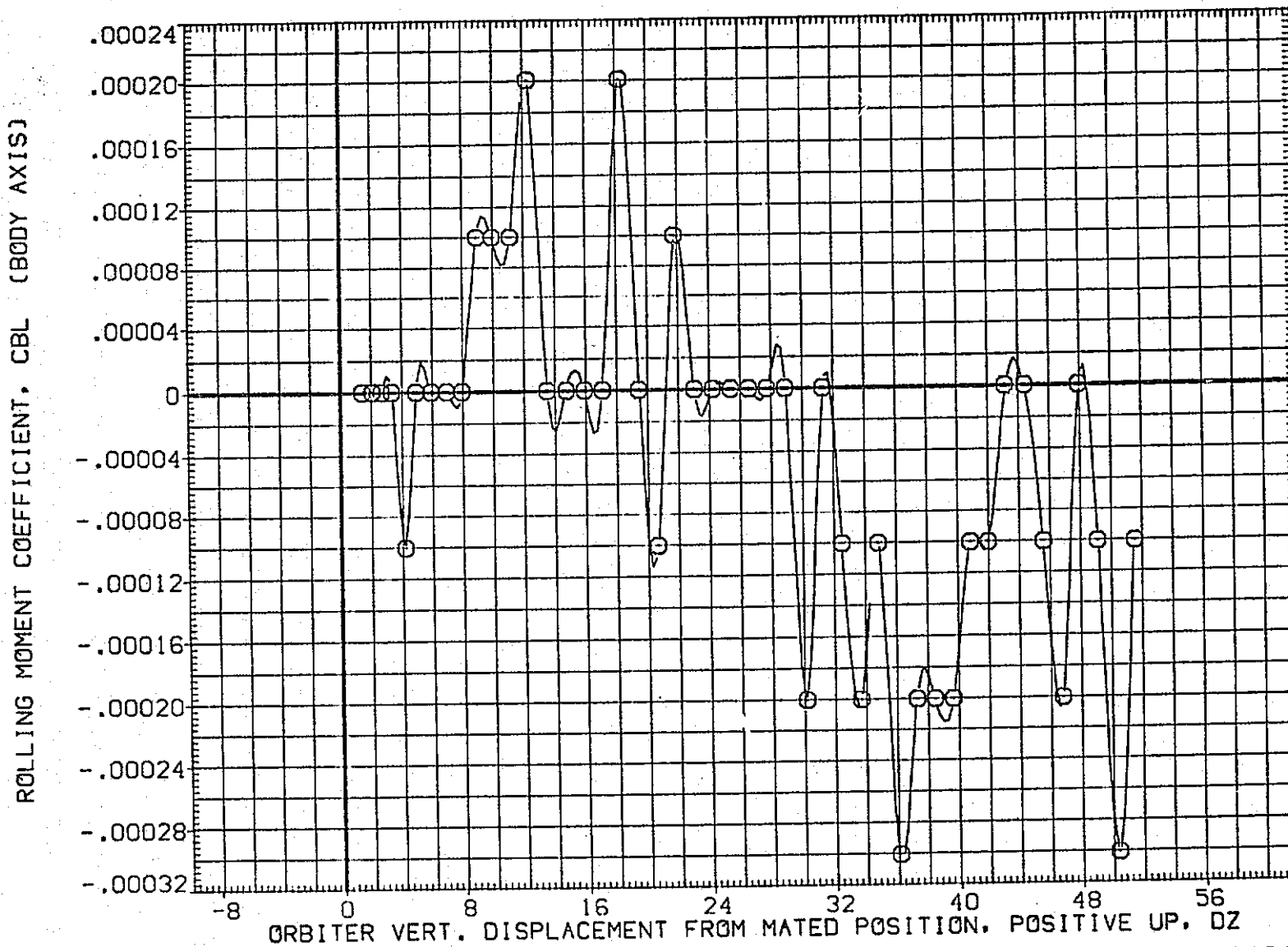


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE104)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	5.500	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

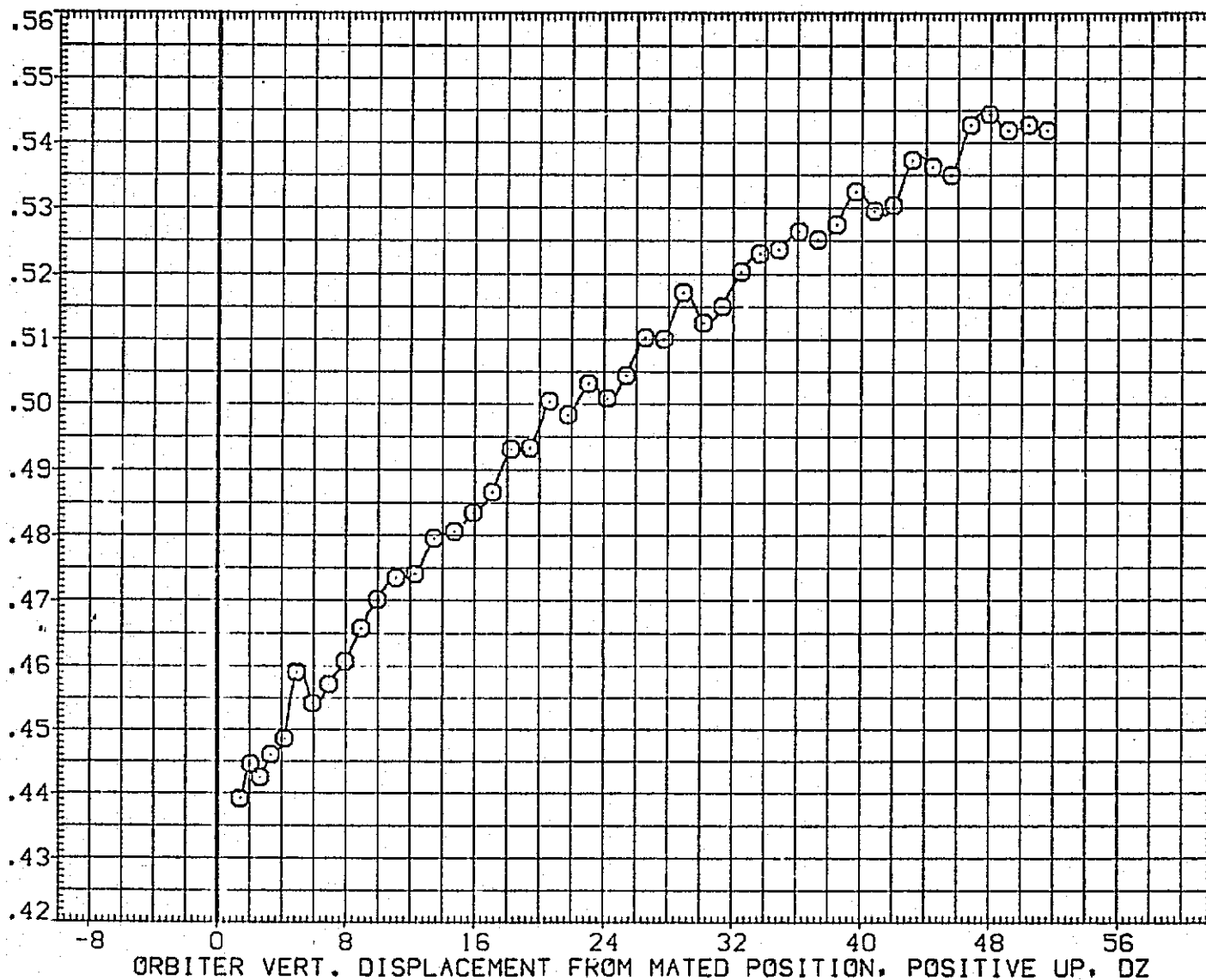


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

SYMBOL
○

MACH	PARAMETRIC VALUES			
.599	ALPHAC	5.500	BETAC	.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DRAG COEFFICIENT, CD

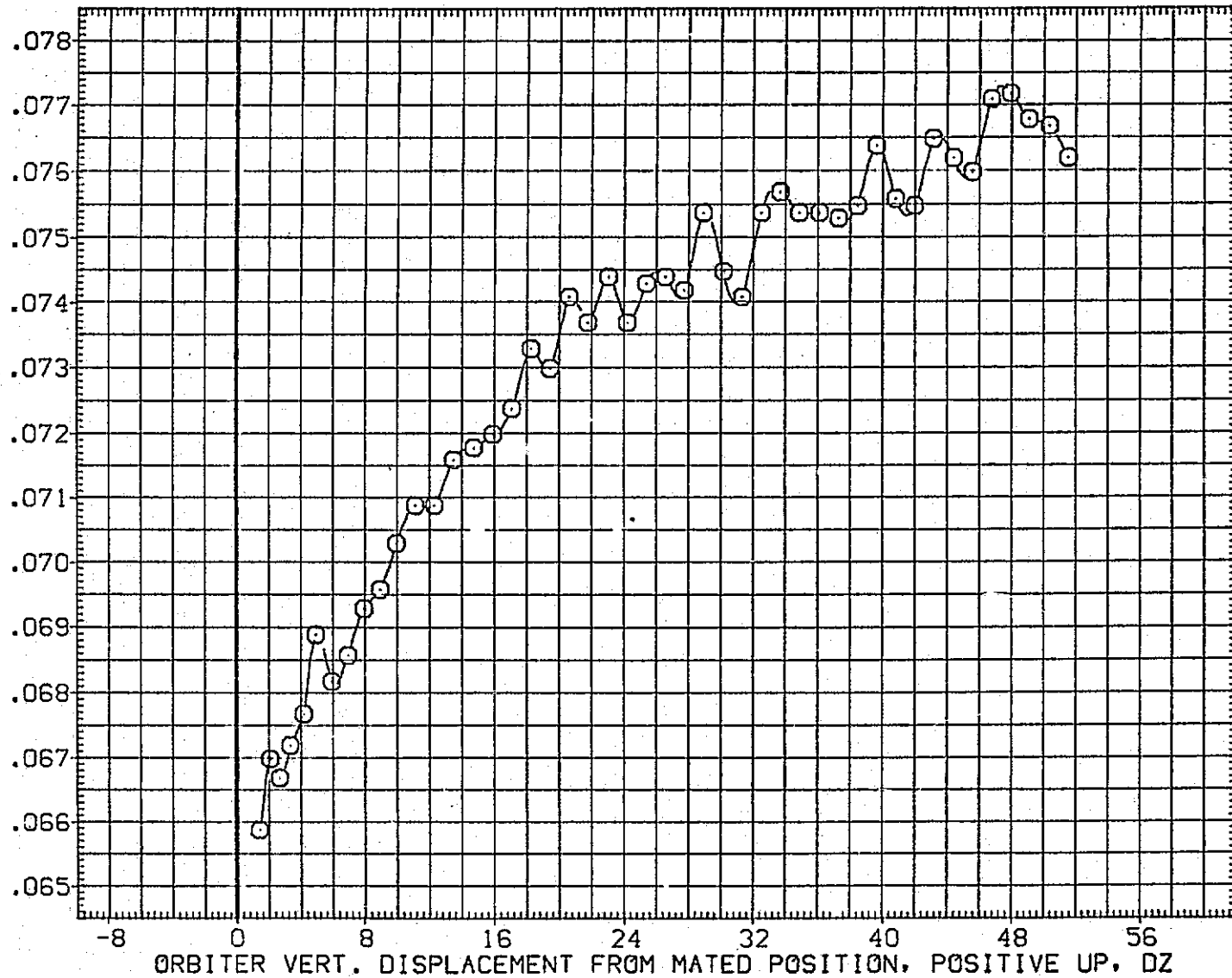


FIG.208 CARRIER DATA, ORB. PROXIMITY, ALPHAC=5.5, IORB=6, BETAC=0, BETA0=0, RFE104

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE105)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVGN	DX	YMRP	ZMRP	SCALE
○	.602	.000	-5.000	5.000	.000	5500.0000	190.7500	.0125
		5.000	5.000	.000	4.000	327.7800		
		.000	.000	.000	.000	2348.0400		
		.000	4.000	.000	.000	1339.9000		
		-5.000	.000	.000	.000			

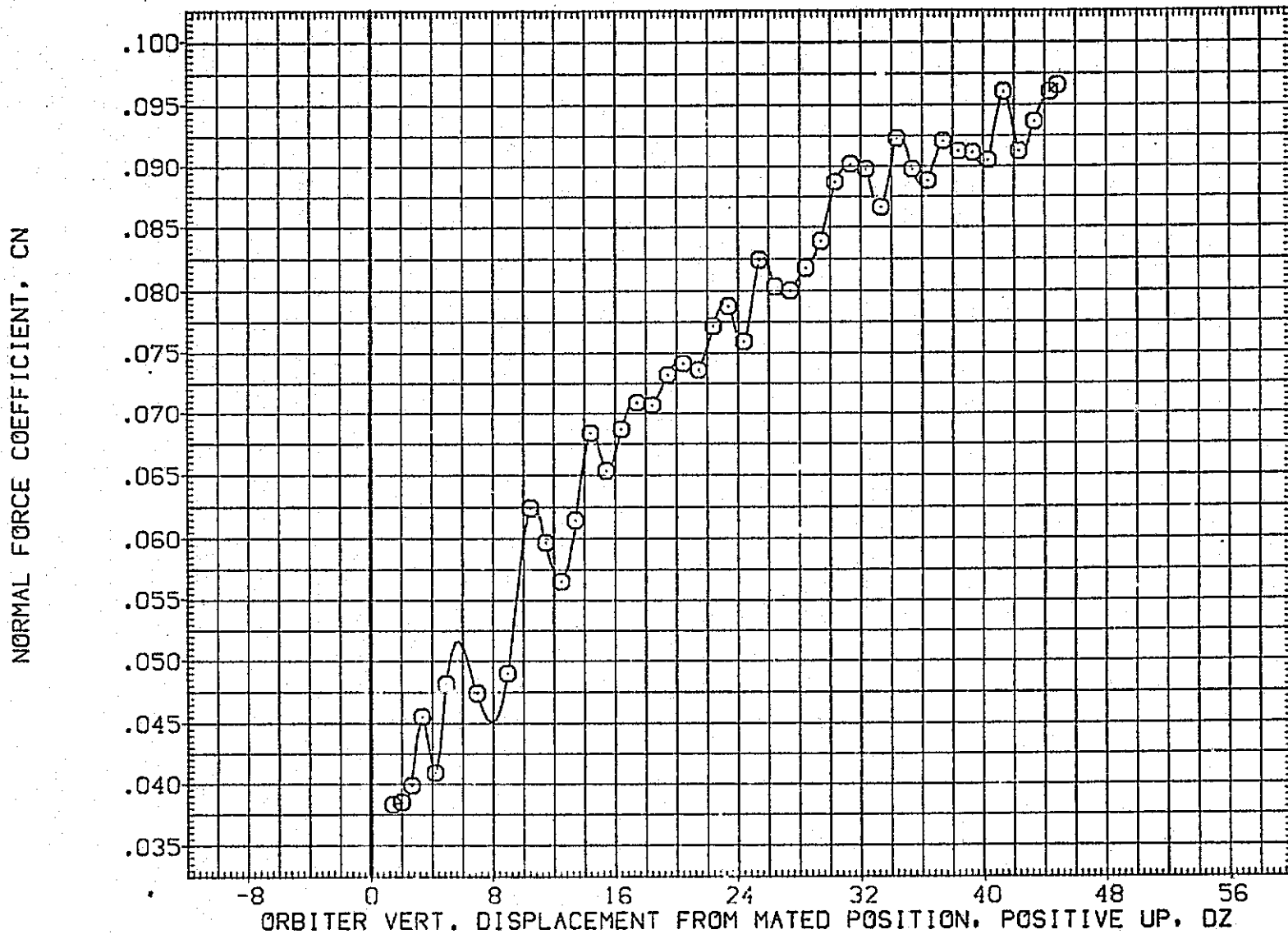


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50. FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETAC	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

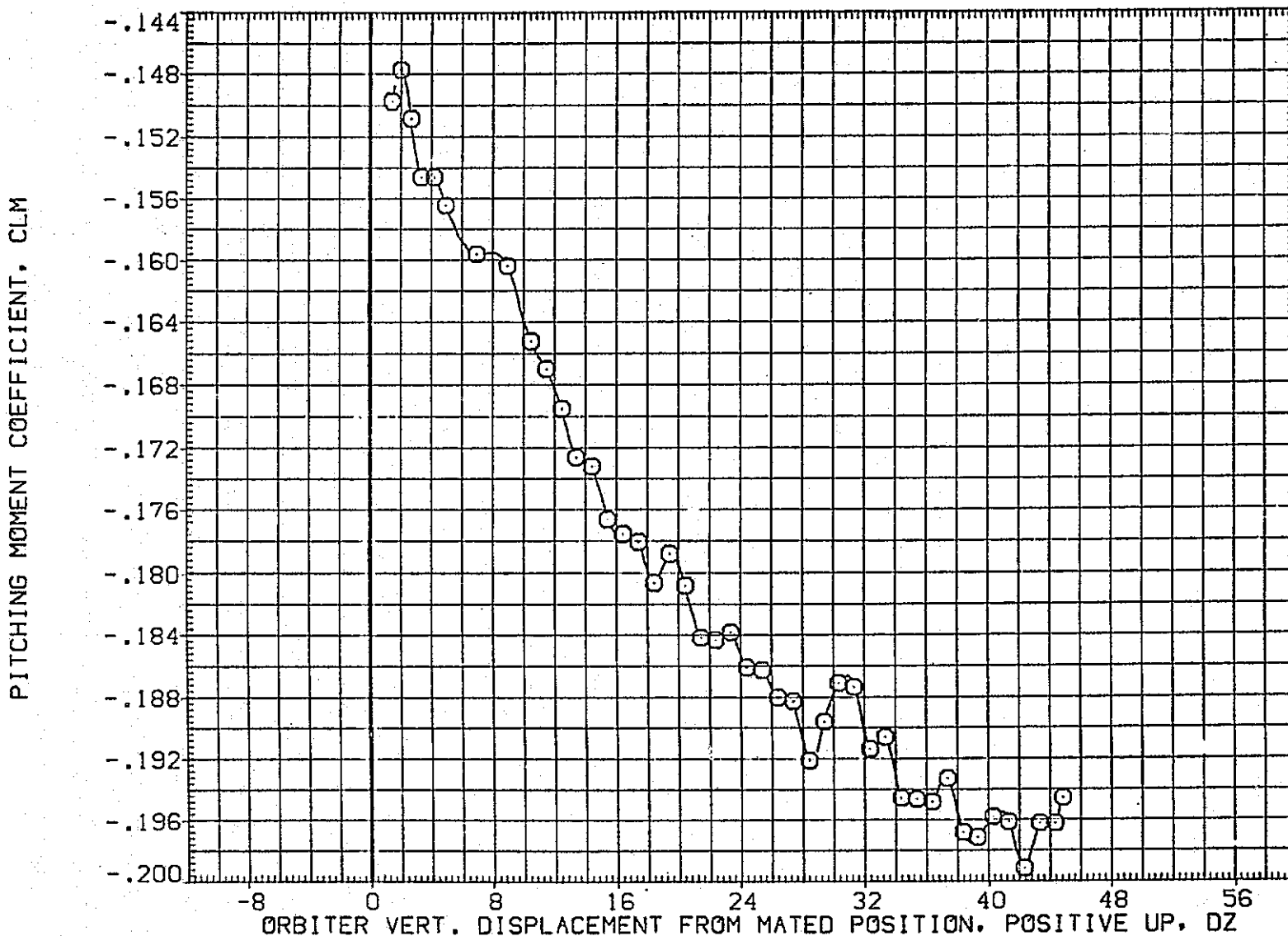


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE105)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SO.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

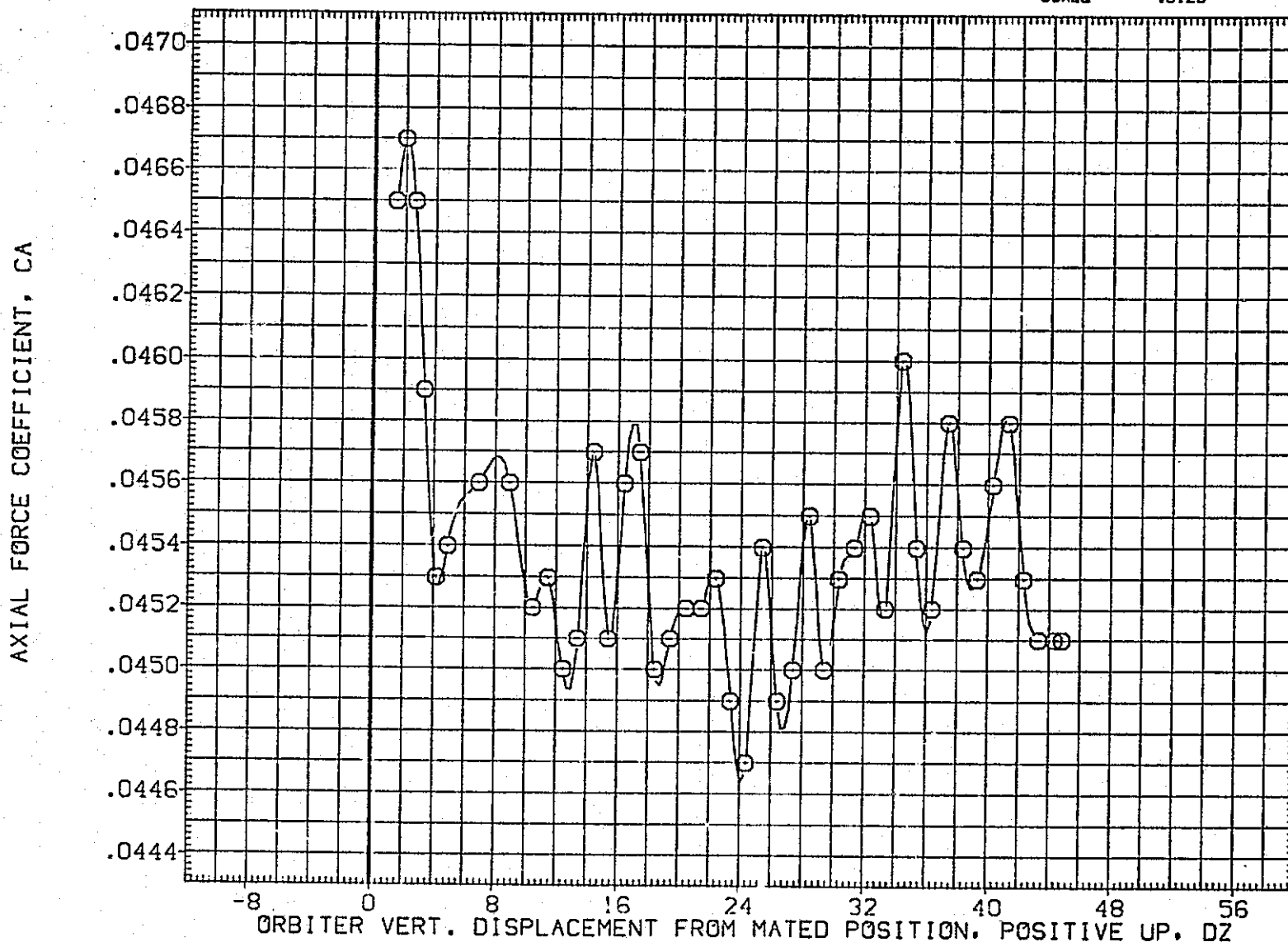


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

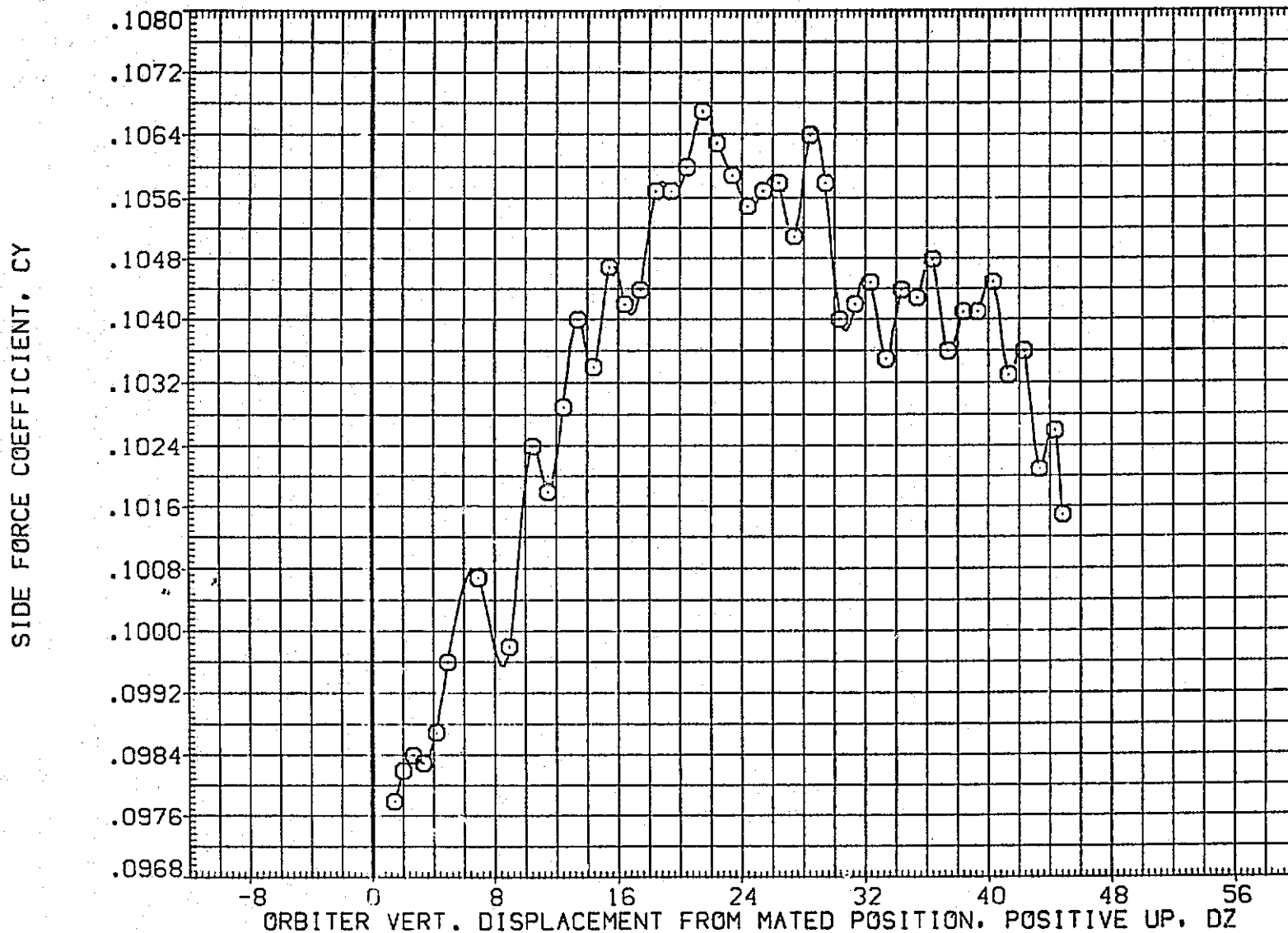


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE105)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMMP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMMP	.0000	IN. YC
						ZMMP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

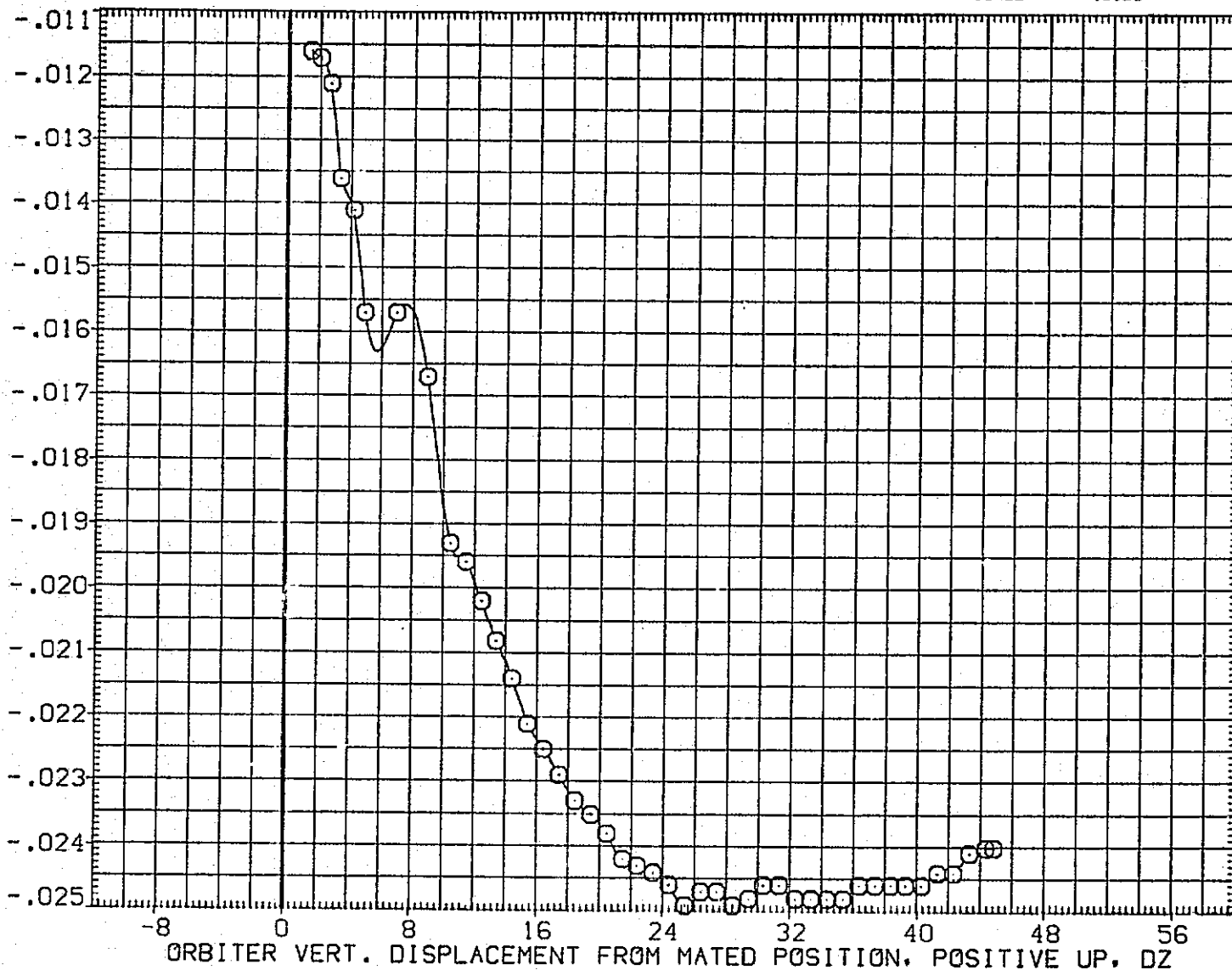


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

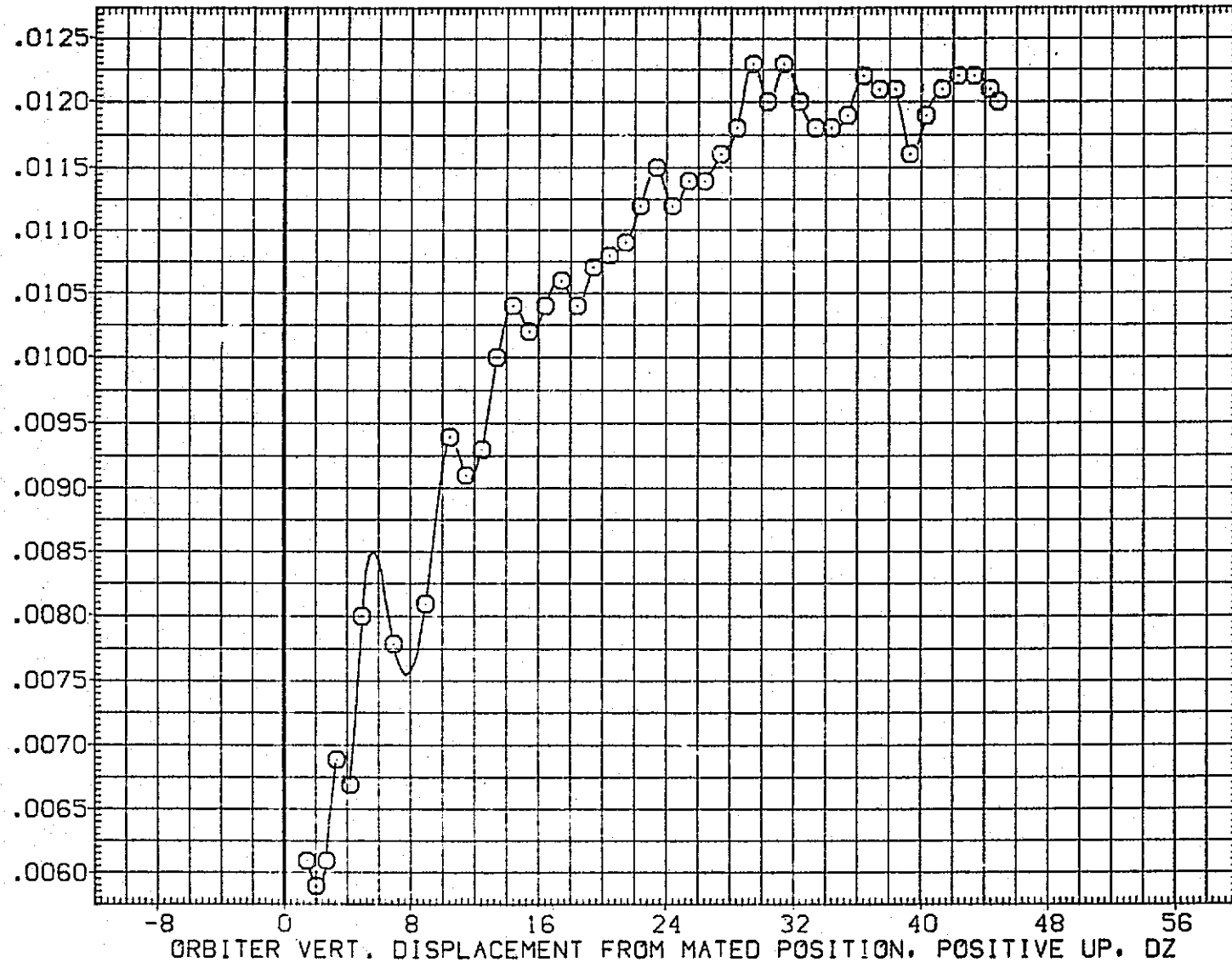


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE105)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	DY	.000	IORB	4.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

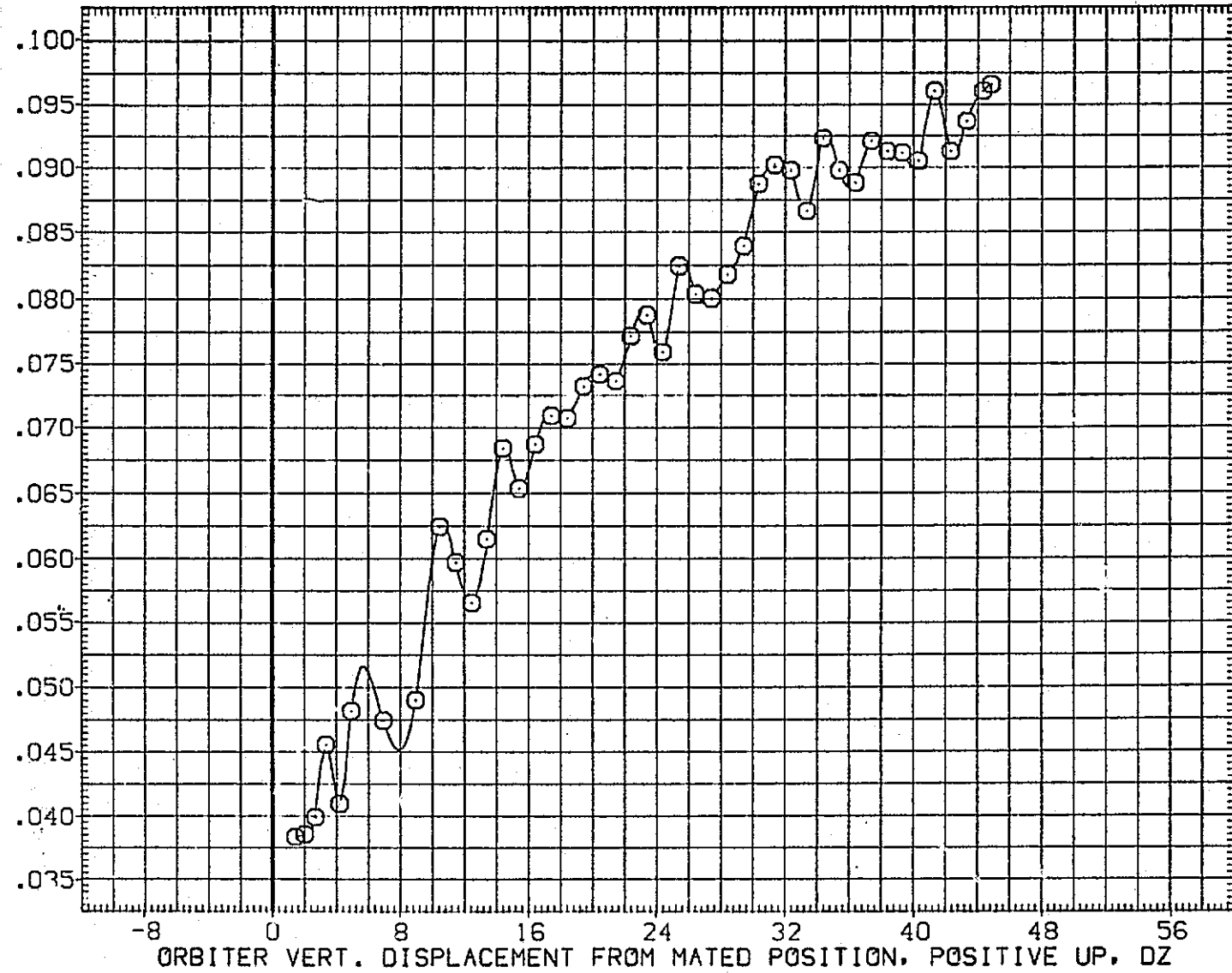


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SG.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

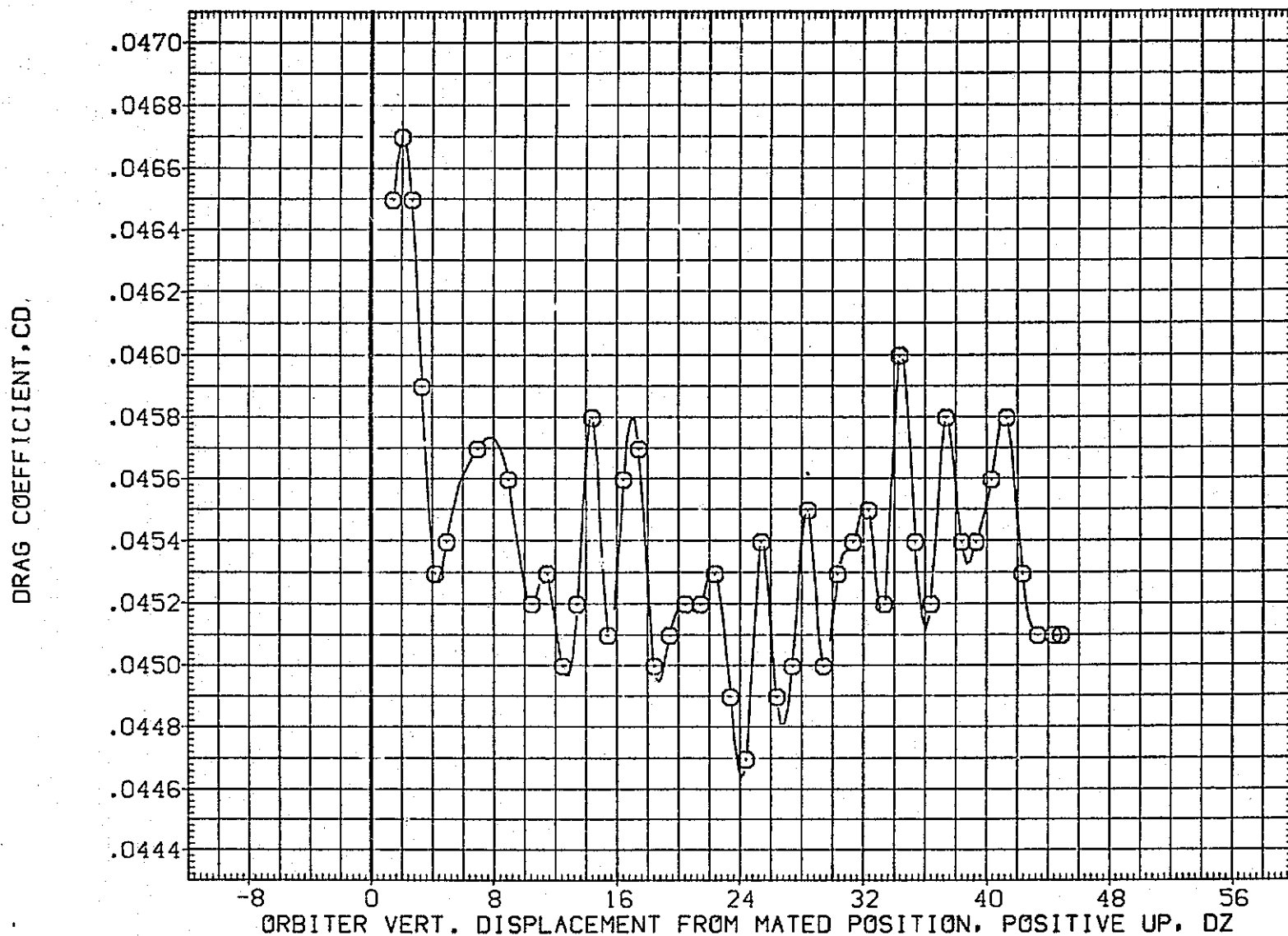


FIG.209 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=-5, BETA0=-5, RFE105

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE106)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BOFLAP	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

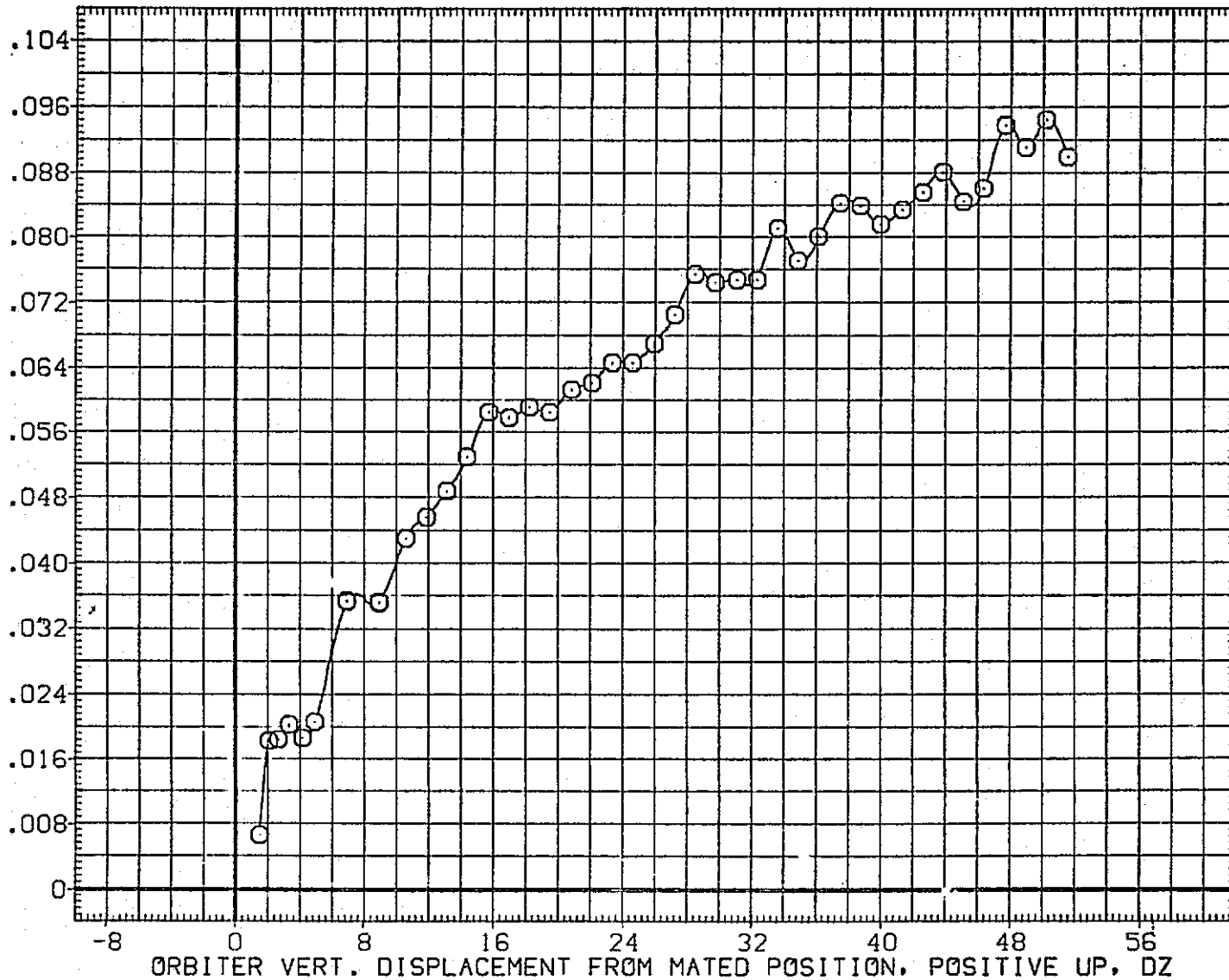


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

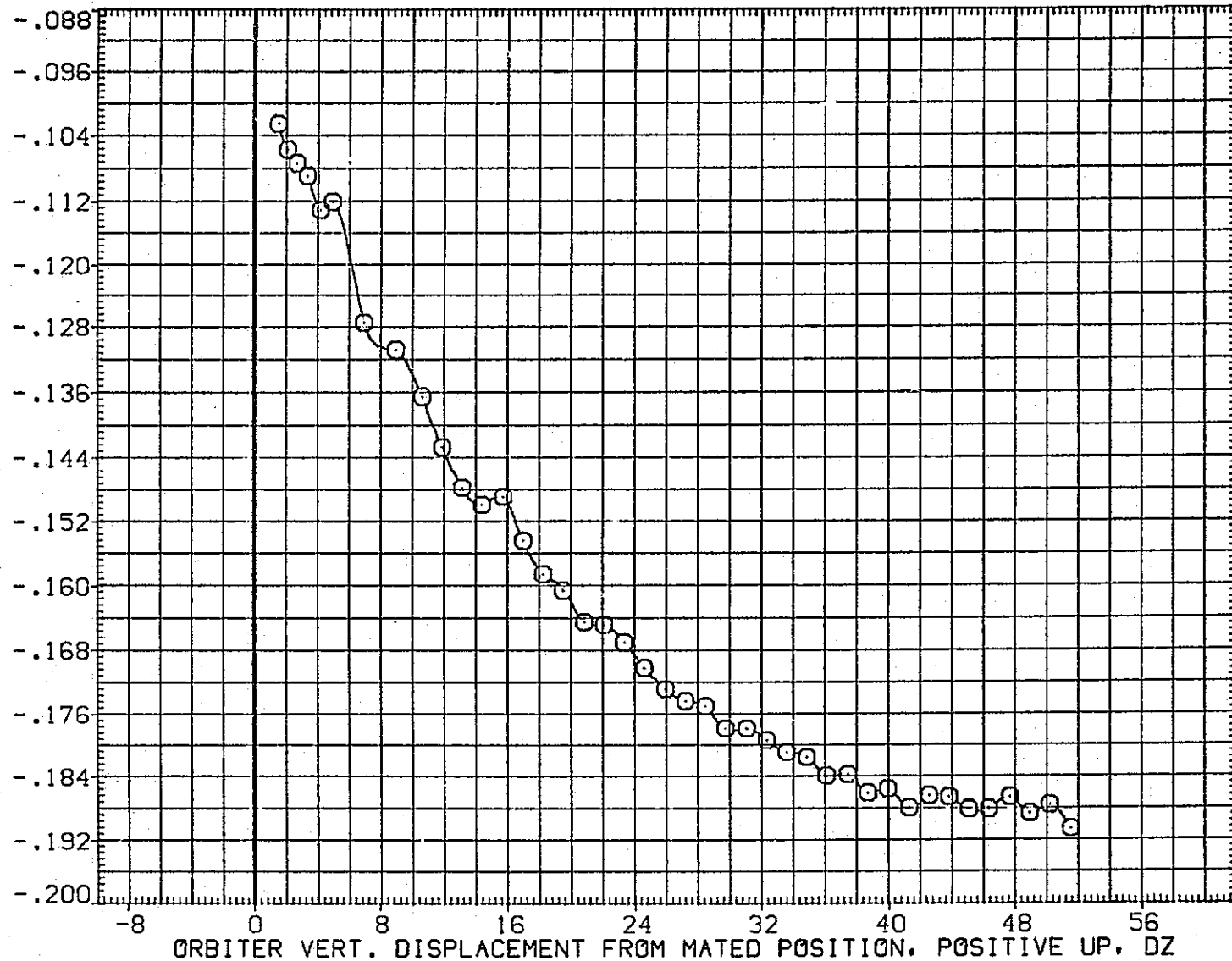


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE106)

SYMBOL	MACH	PARAMETRIC VALUES			REFERENCE INFORMATION			
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

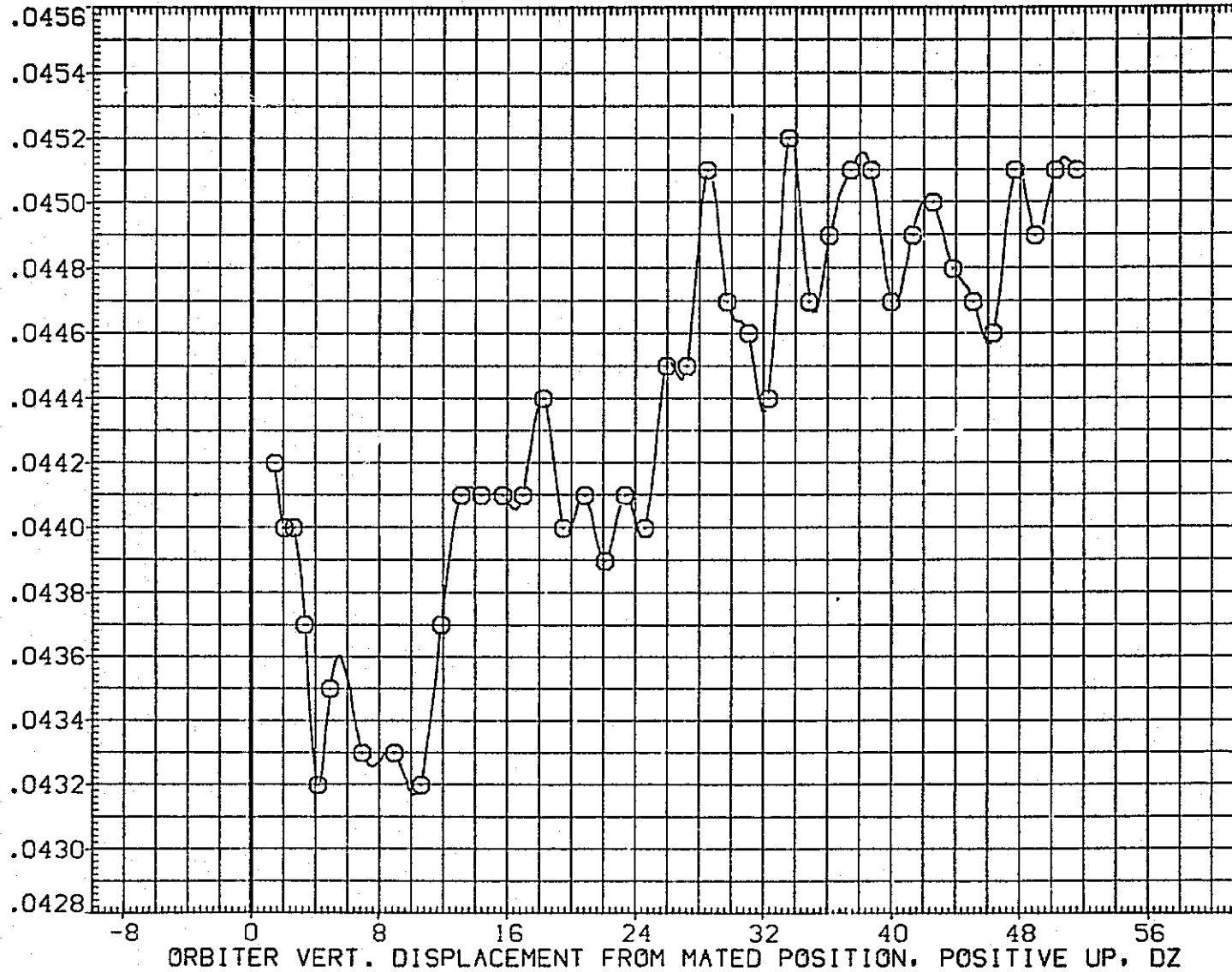


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. YC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

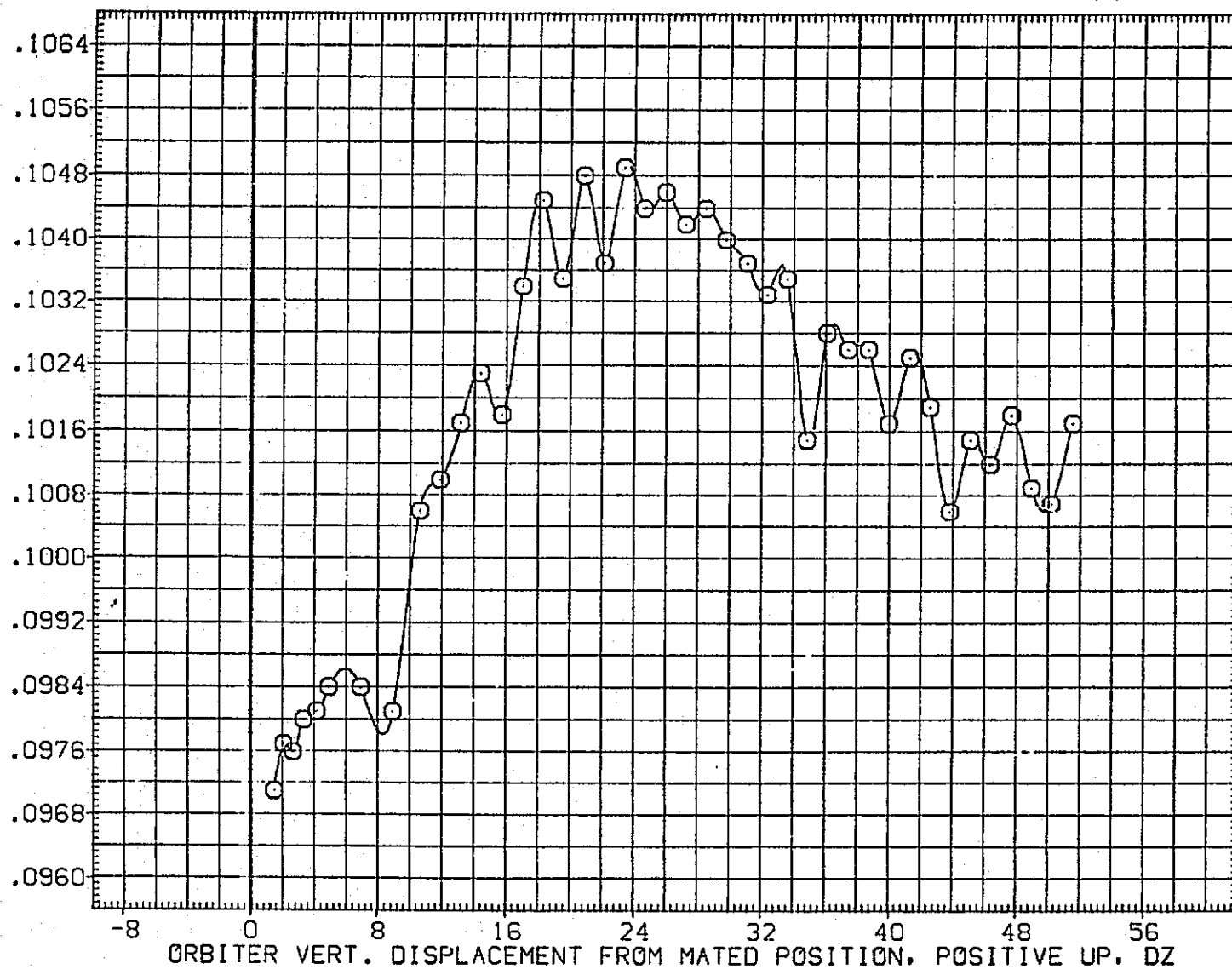


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE106)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

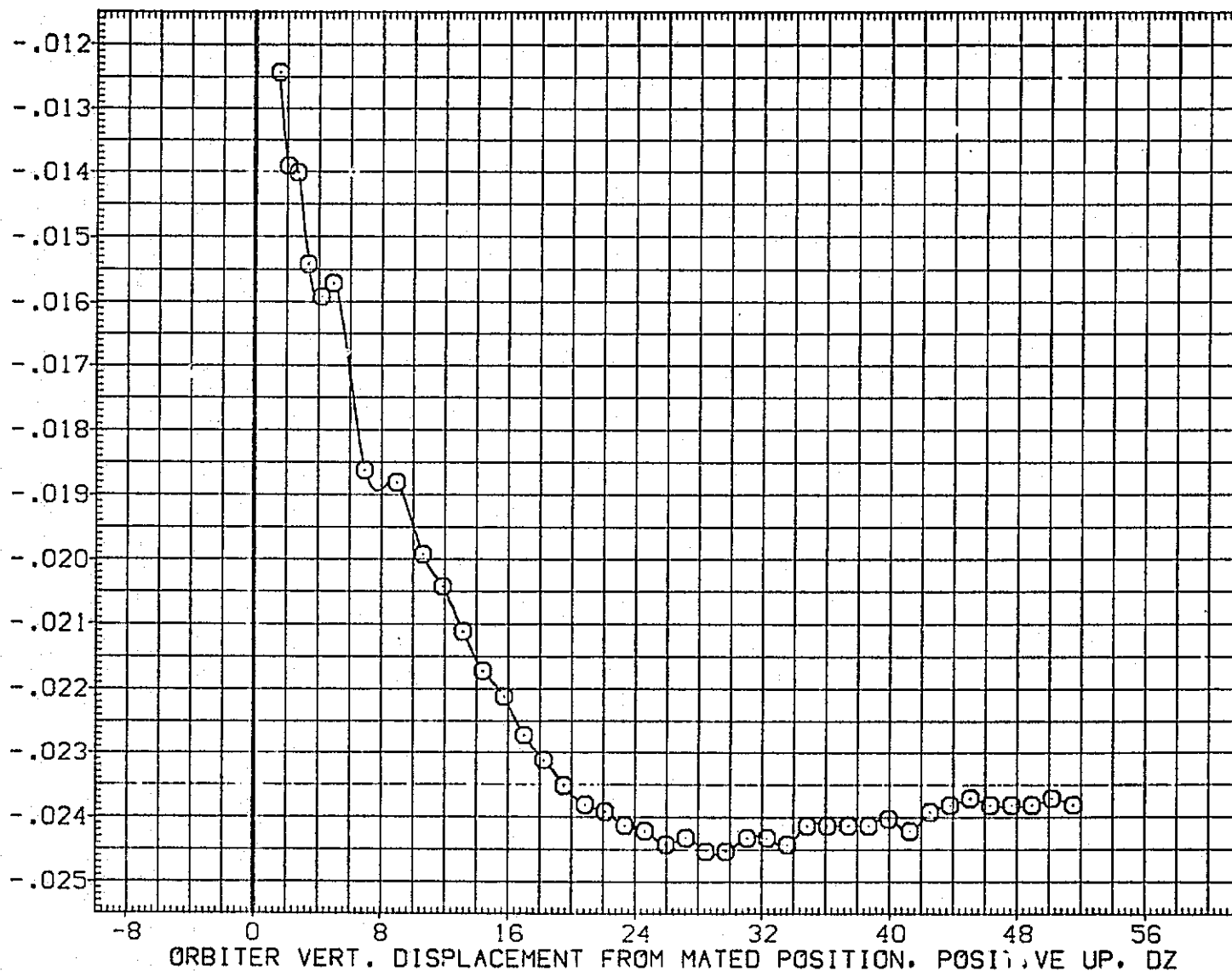


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

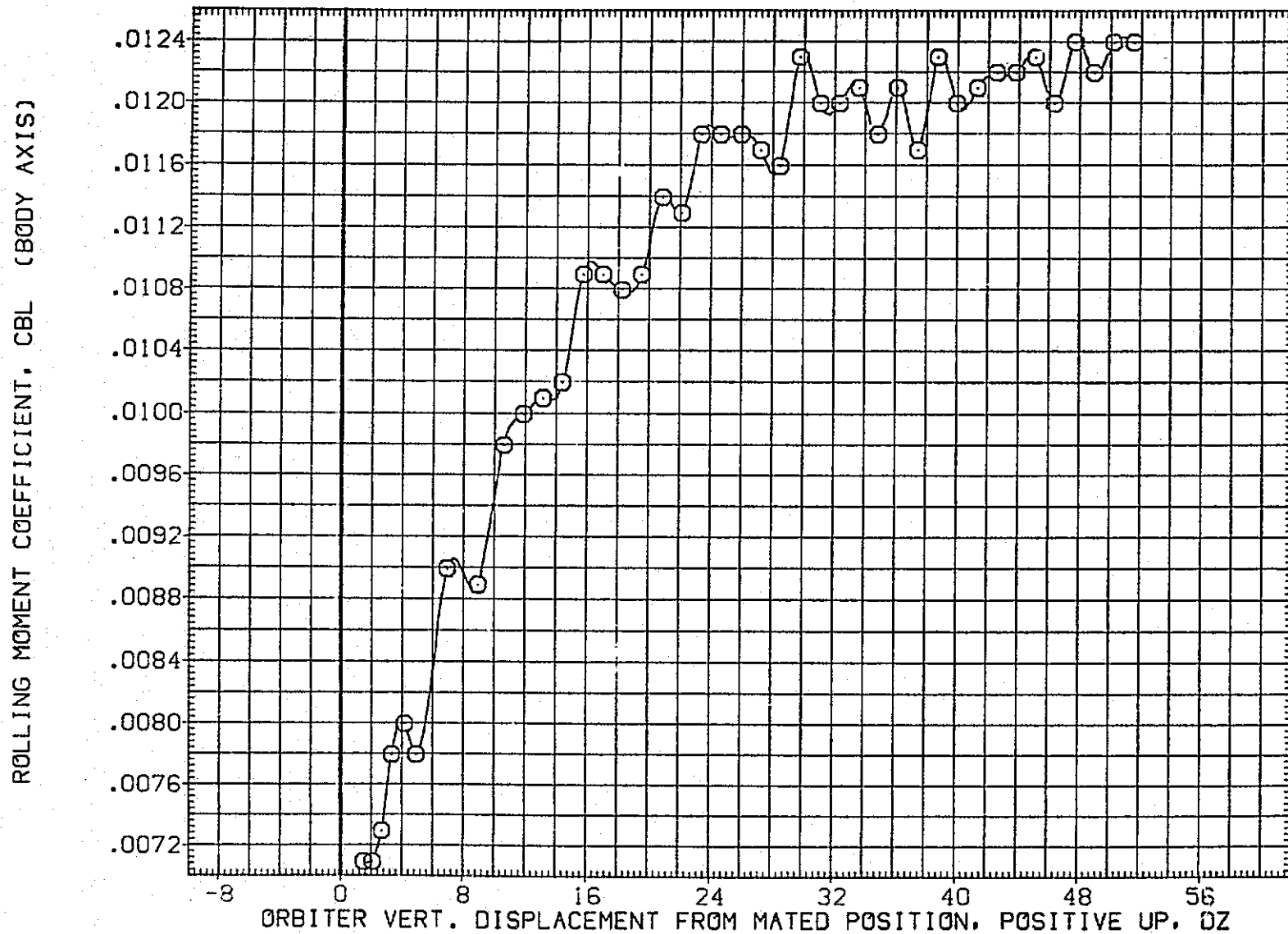


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE106)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	ICRB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

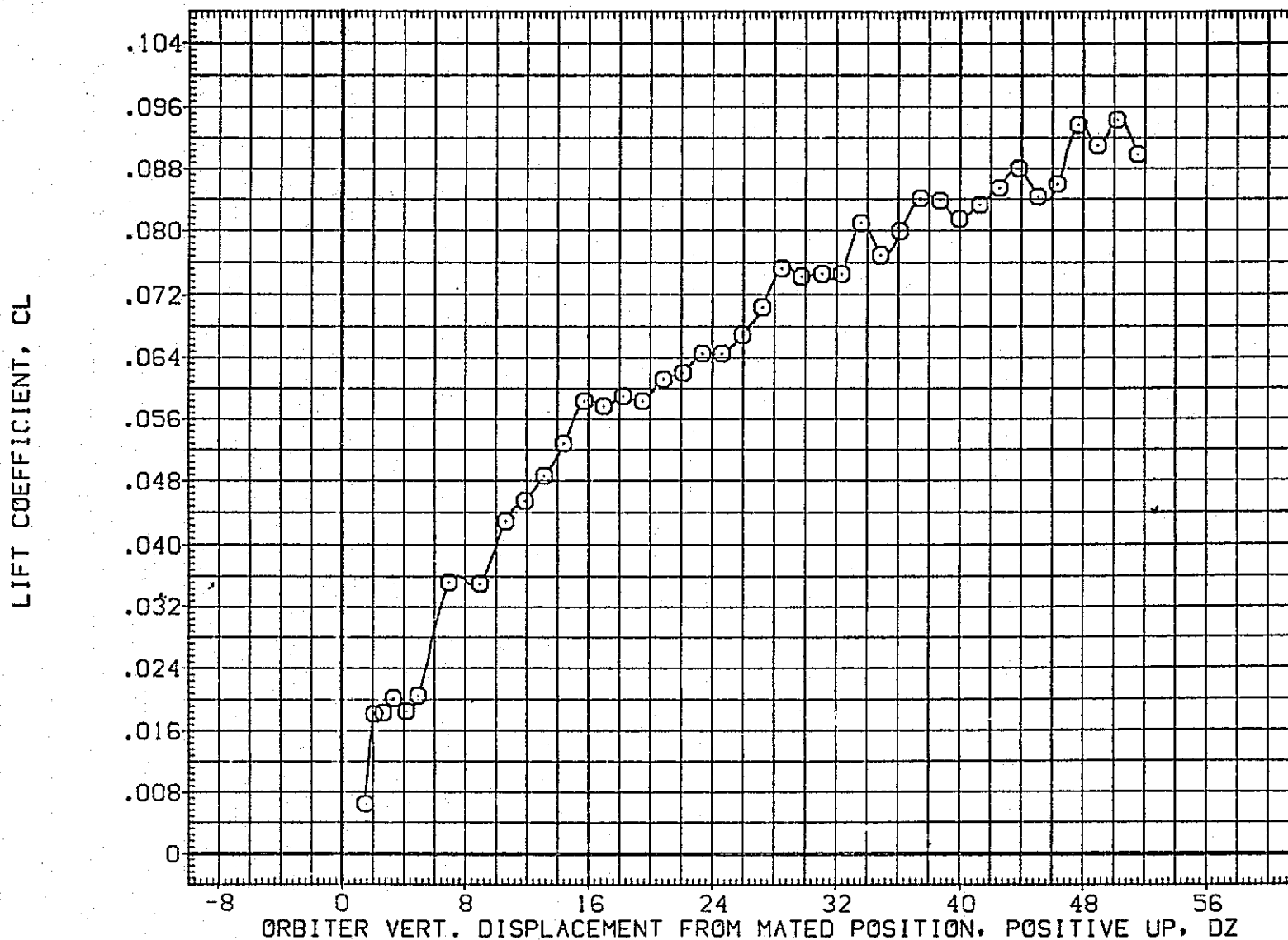


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, ICRB=6, BETAC=-5, BETA0=-5, RFE106

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

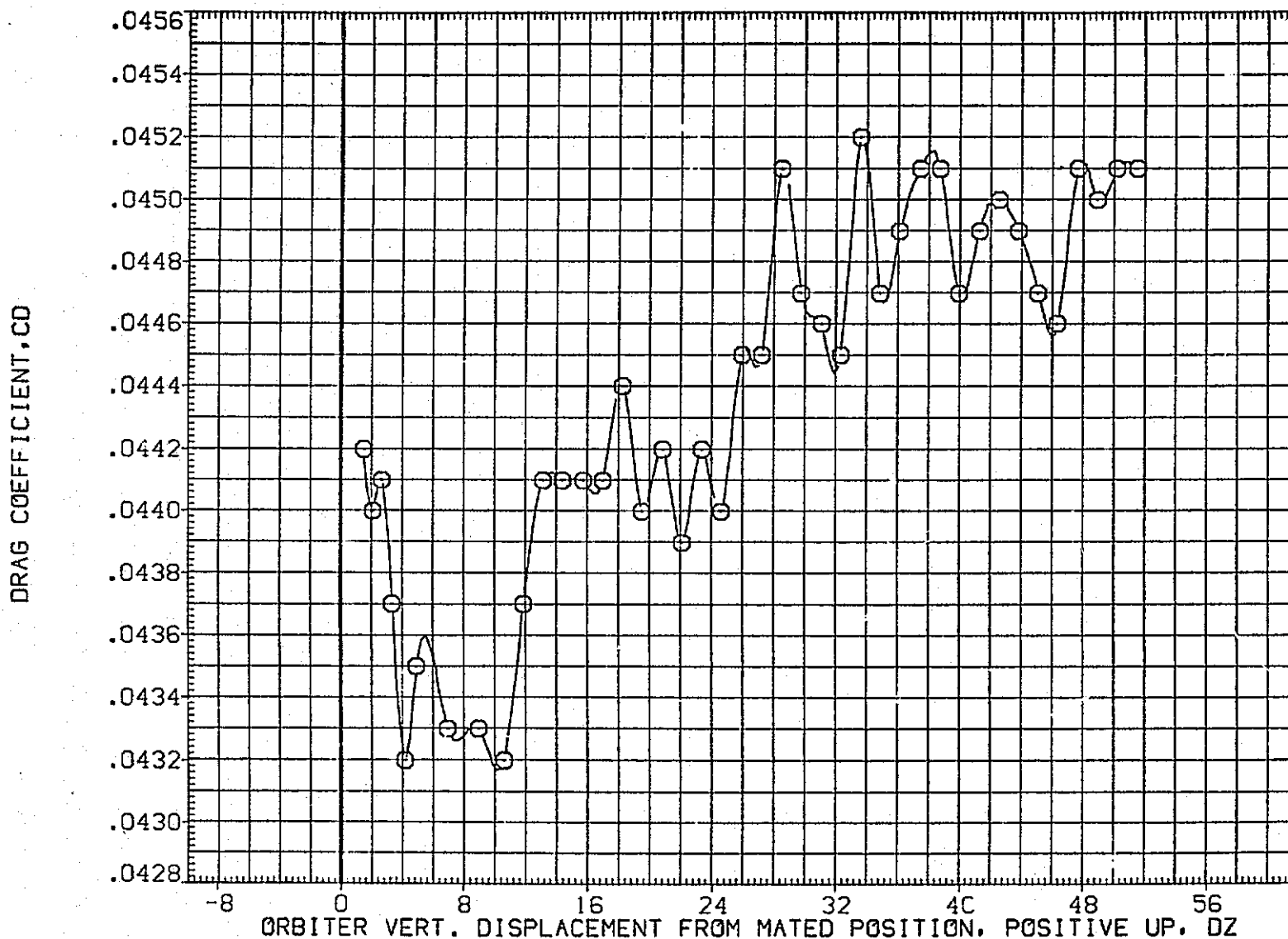


FIG.210 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=-5, BETA0=-5, RFE106

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE107)

SYMBOL

○

MACH	PARAMETRIC VALUEC			
.600	ALPHAC	.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	BDFLAP	.000	DX	.000
	OY	.000	IORB	8.000
	BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

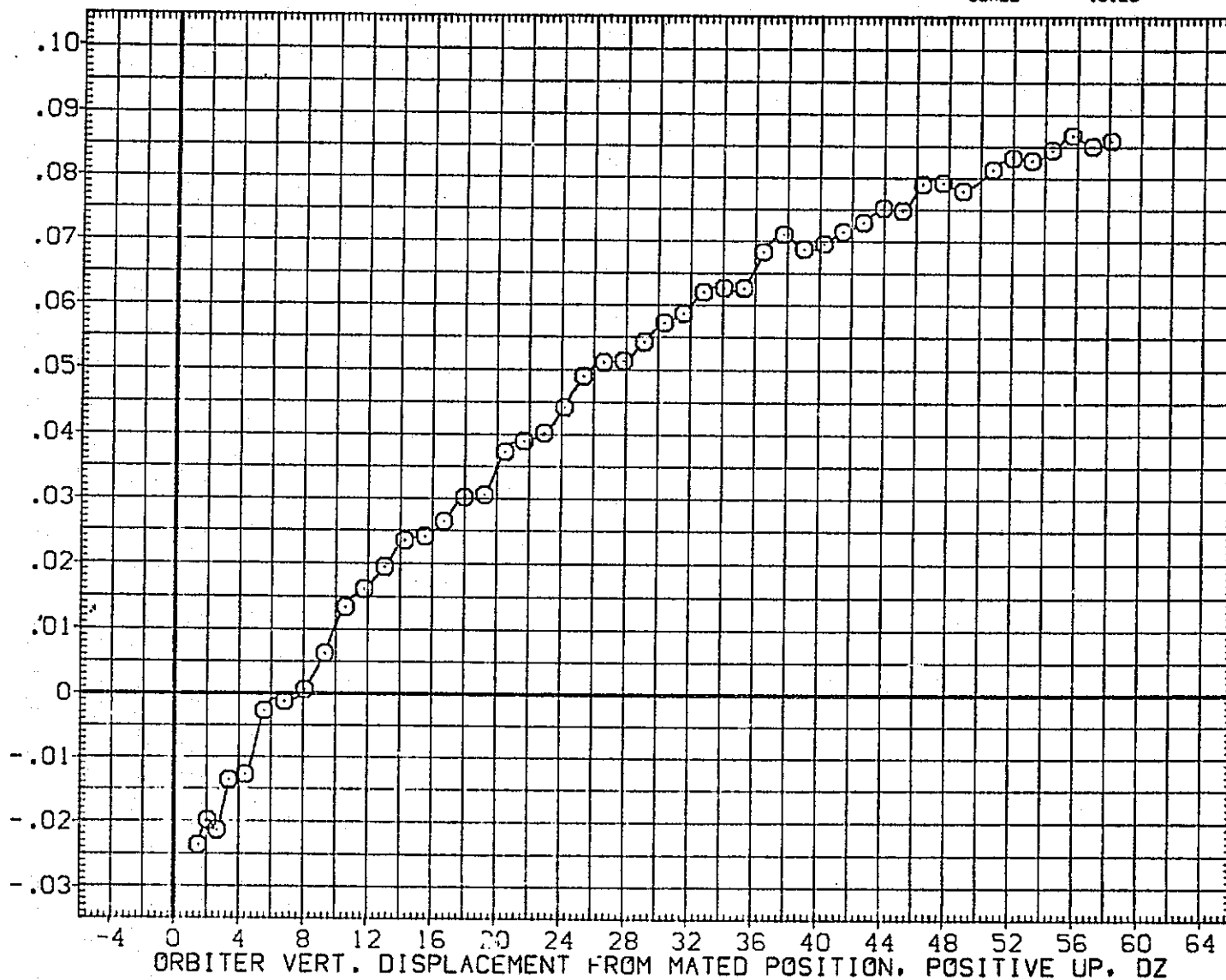


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SO.F.L.
		STAB	5.000	ELEVGN	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	YMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

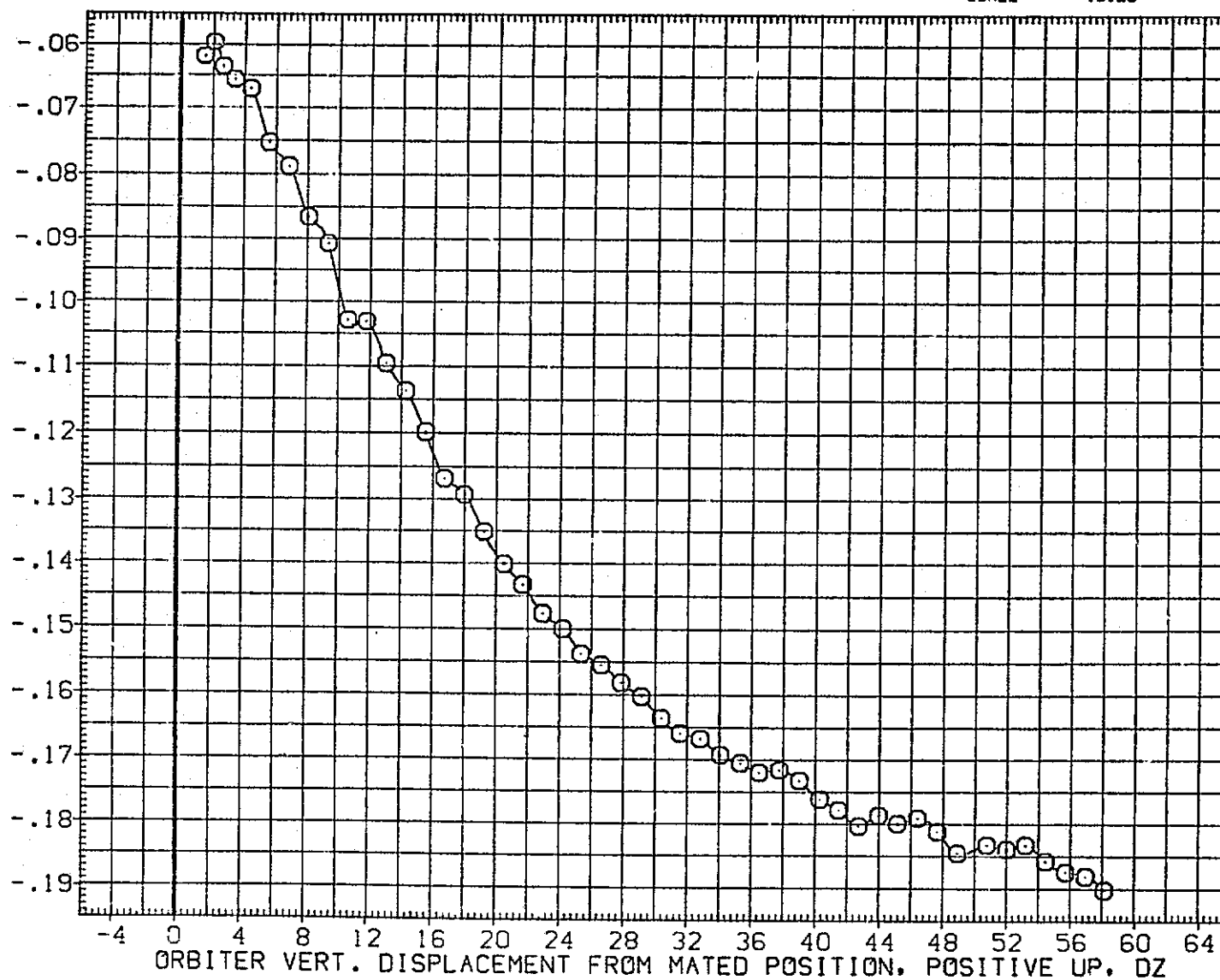


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE107)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

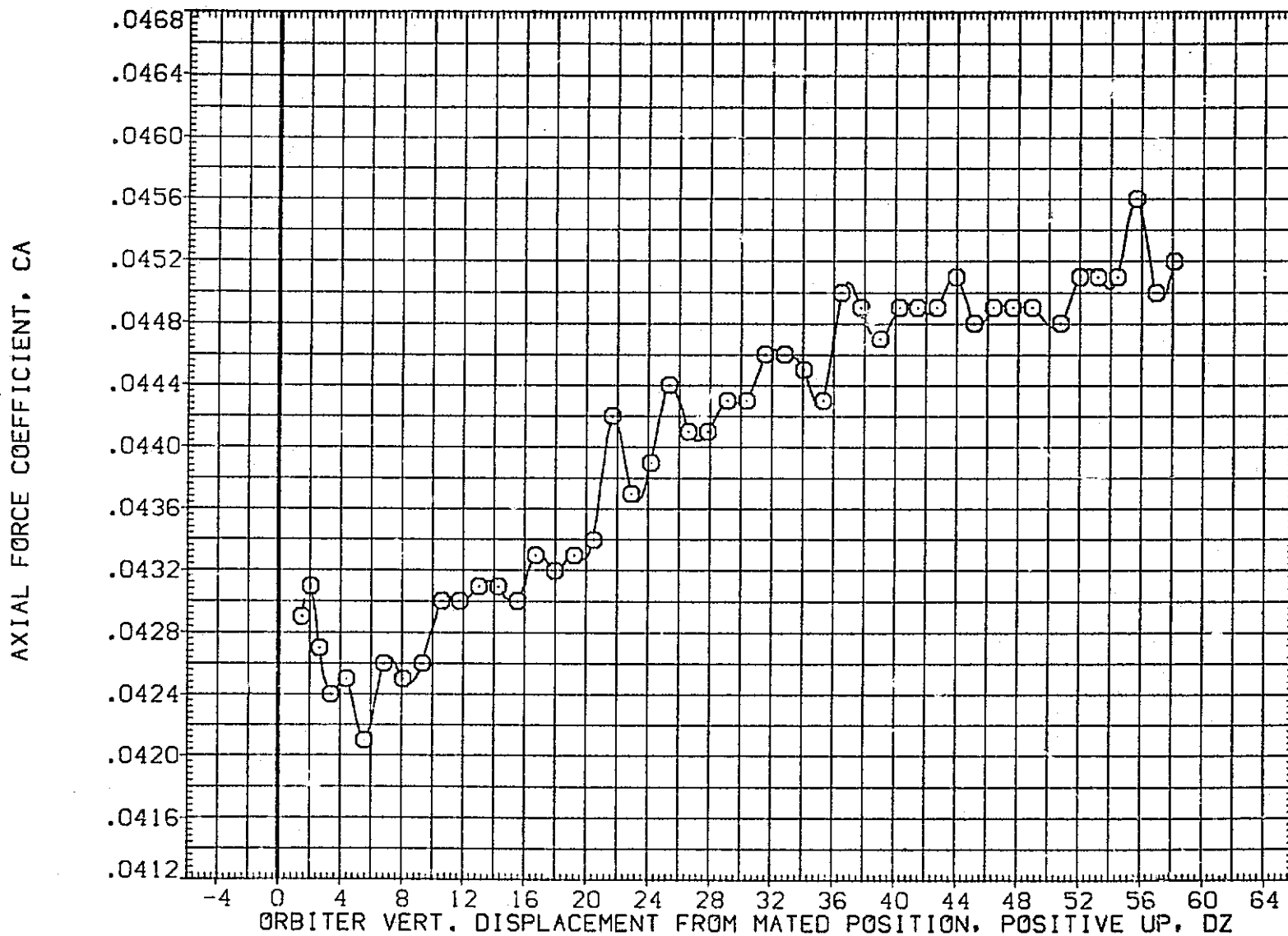


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

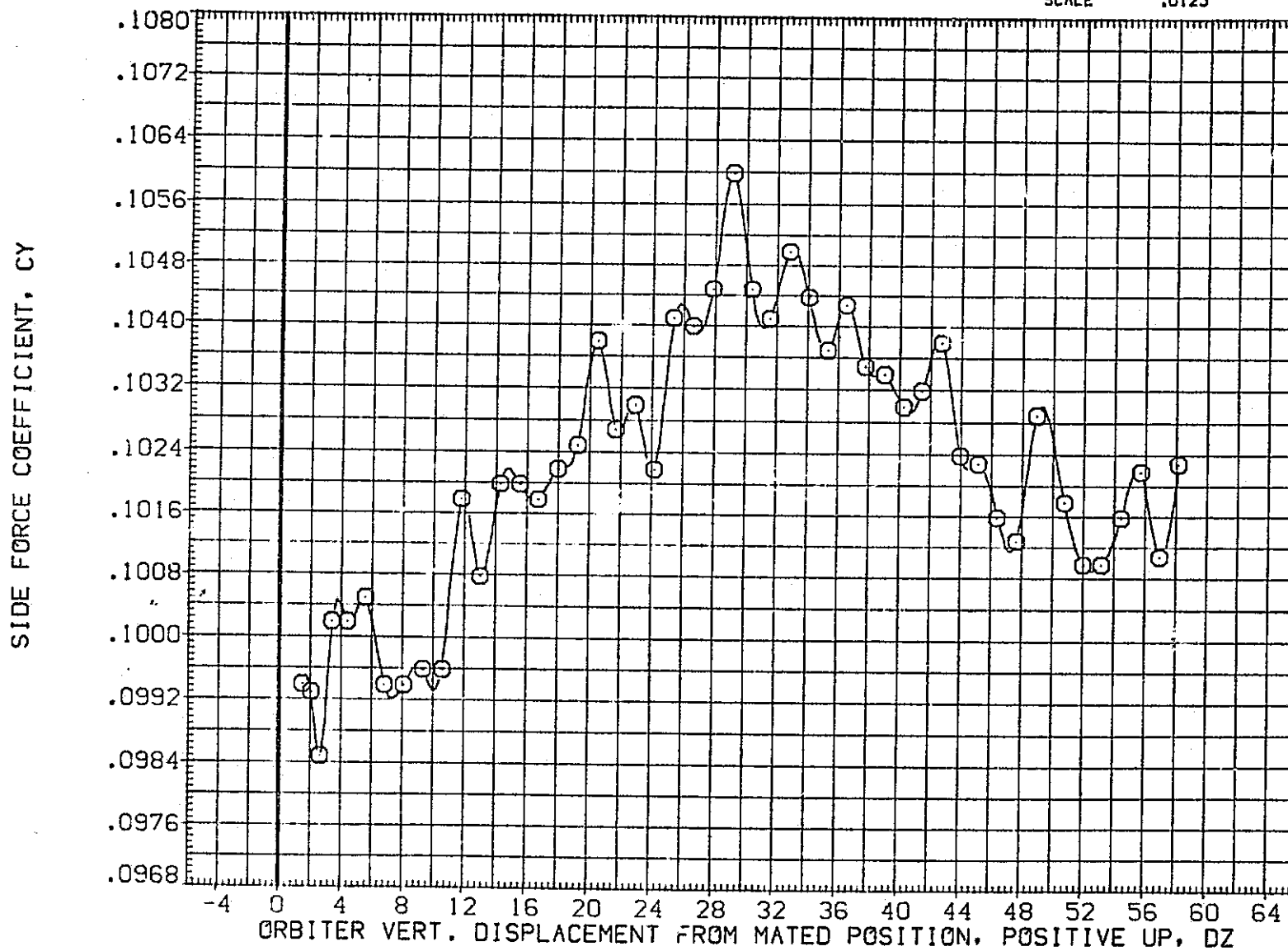


FIG.211 CARRIER_DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE107)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

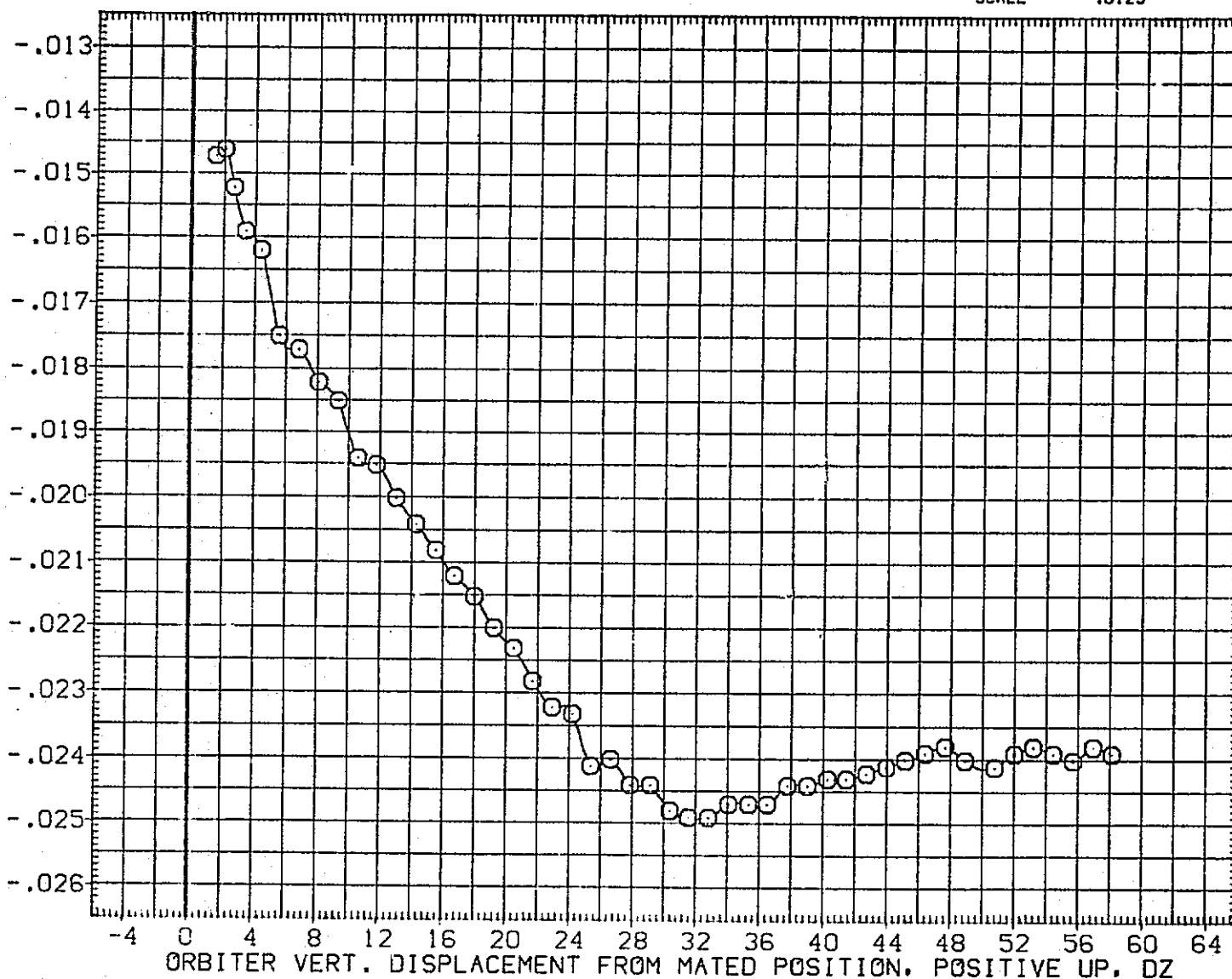


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.600	.000	-5.000	5.000	.000	5500.0000	327.7800	IN.
		STAB	5.000	ELEVON	5.000	BREF	2348.0400	IN.
		BDFLAP	.000	DX	.000	XMRP	1339.9000	IN. XC
		DY	.000	IORB	8.000	YMRP	.0000	IN. YC
		BETA0	-5.000	RUDDER	.000	ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

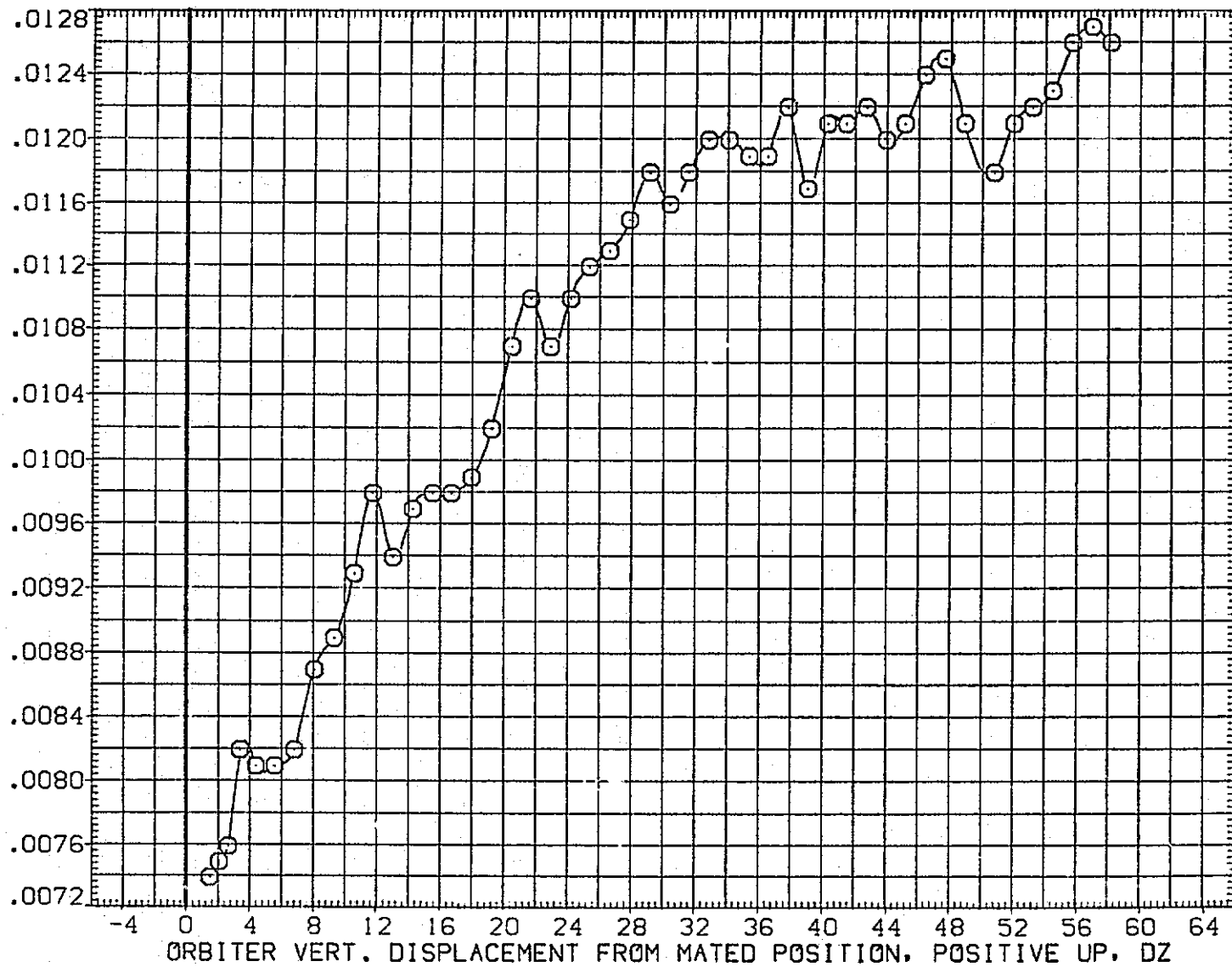


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE107)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		BDFLAP	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	RUDDER	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

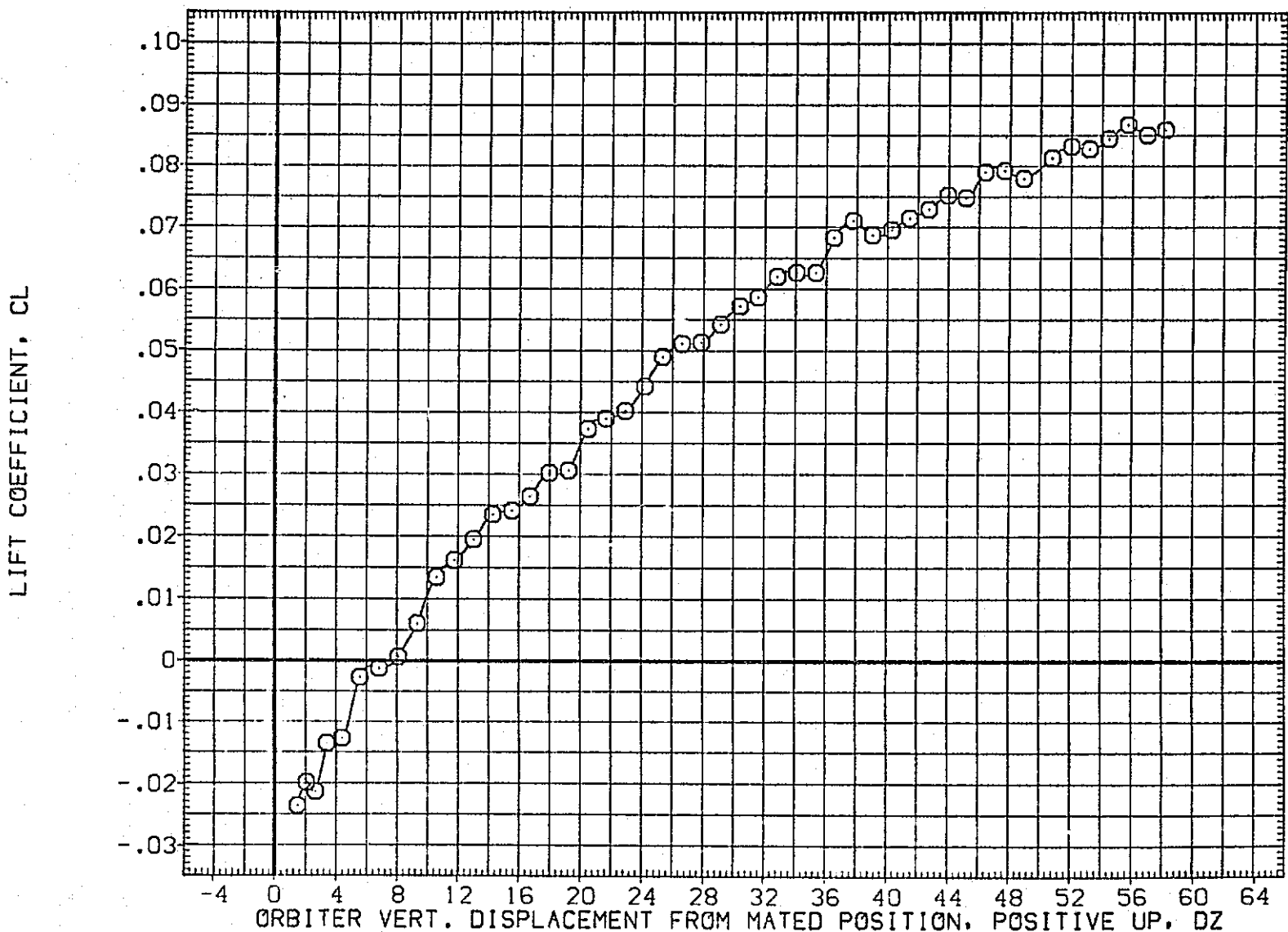


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	-5.000
		STAB	5.000	ELEVON	5.000
		BDFLAP	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	-5.000	RUDDER	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.F.F.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

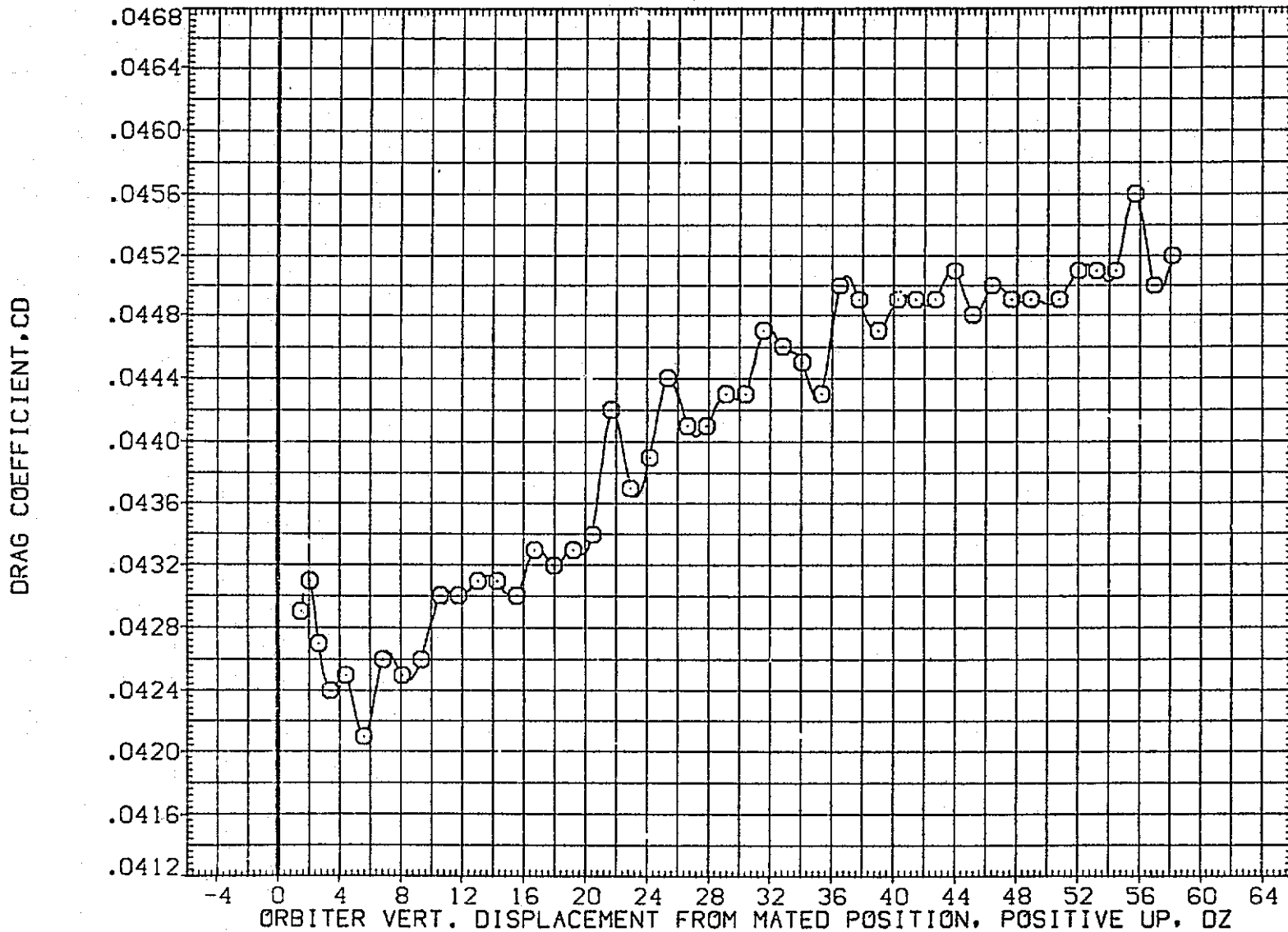


FIG.211 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=-5, BETA0=-5, RFE107

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE108)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.600	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	5.000
	AILRON	.000	OX	.000
	DY	.000	IORB	6.000
	BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

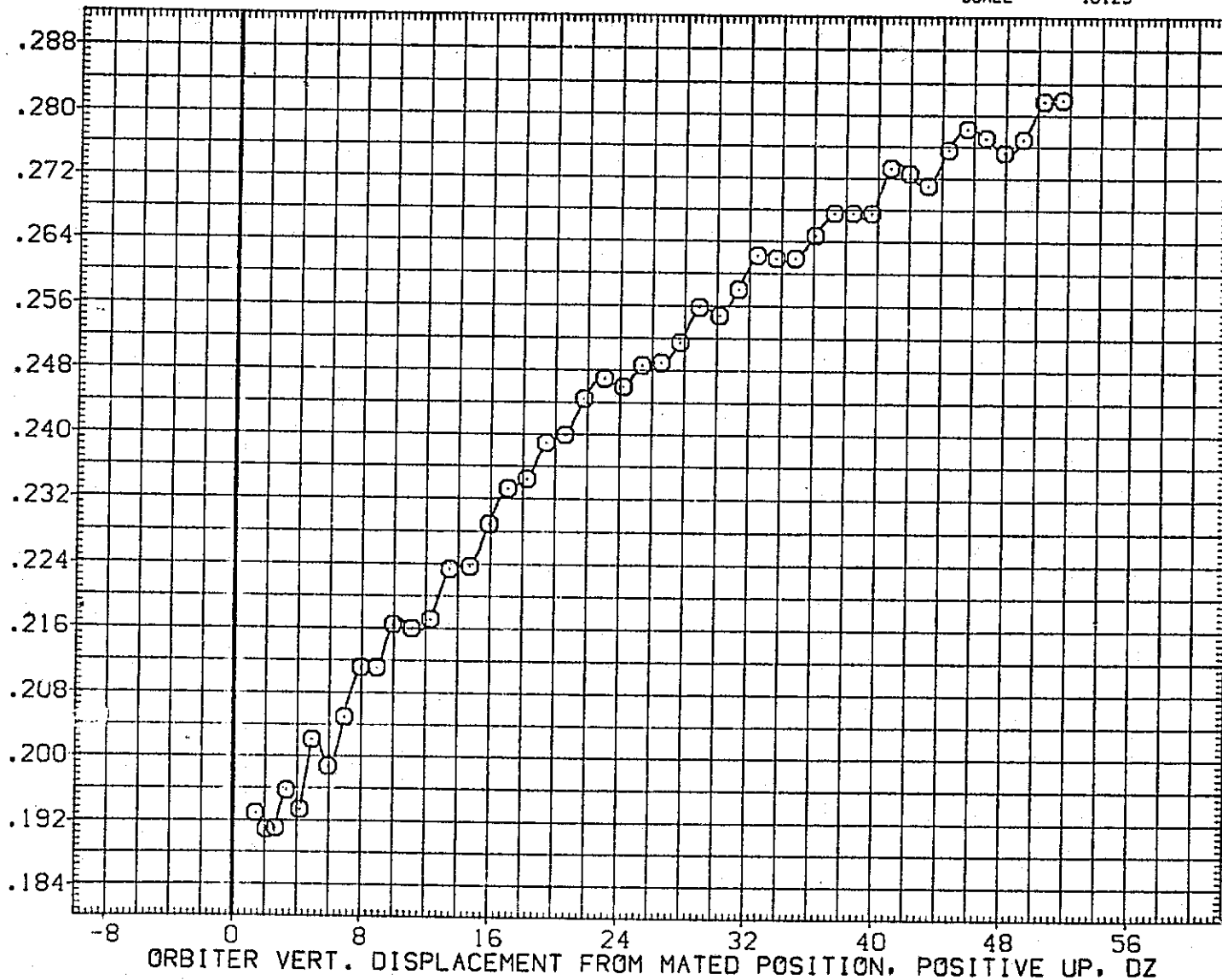


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

SYMBOL	MACH	PARAMETRIC VALUES					
○	.600	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	ELEVON	5.000		
		AILRON	.000	DX	.000		
		OY	.000	IORB	6.000		
		BETA0	.000	DPHI	.000		

REFERENCE INFORMATION		
SREF	5500.0000	SC.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

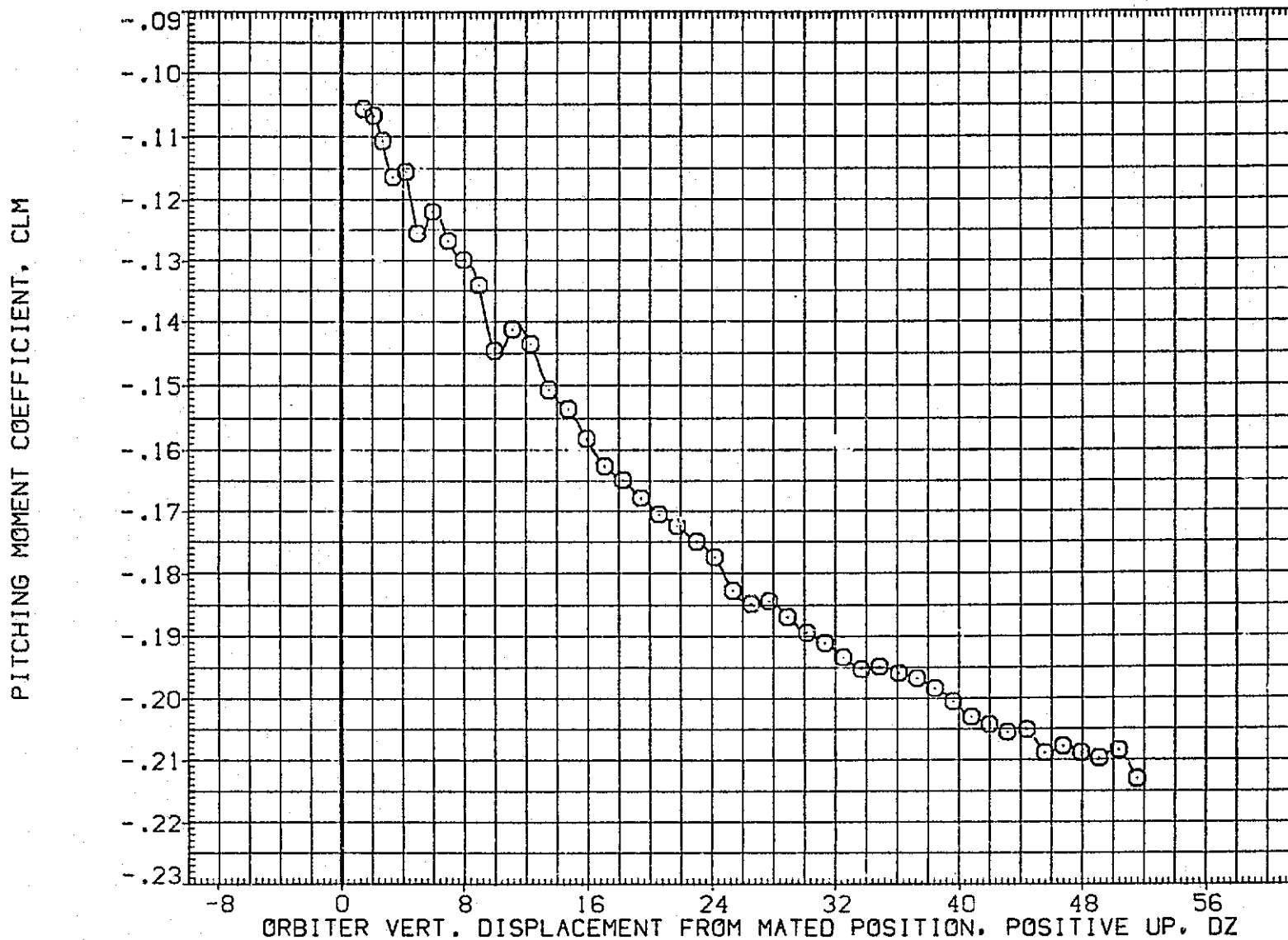


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE108)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILERON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

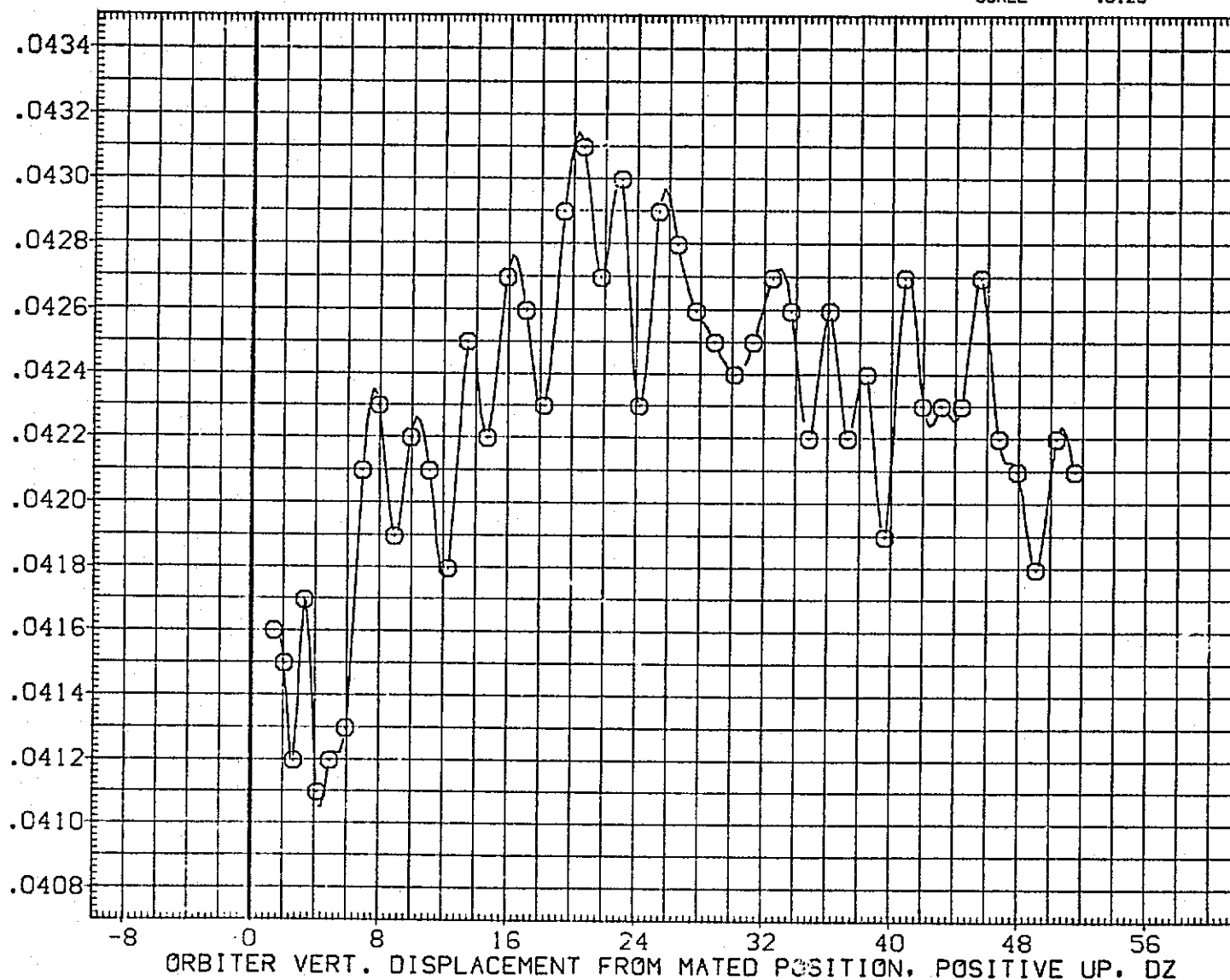


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		AILERON	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	N. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

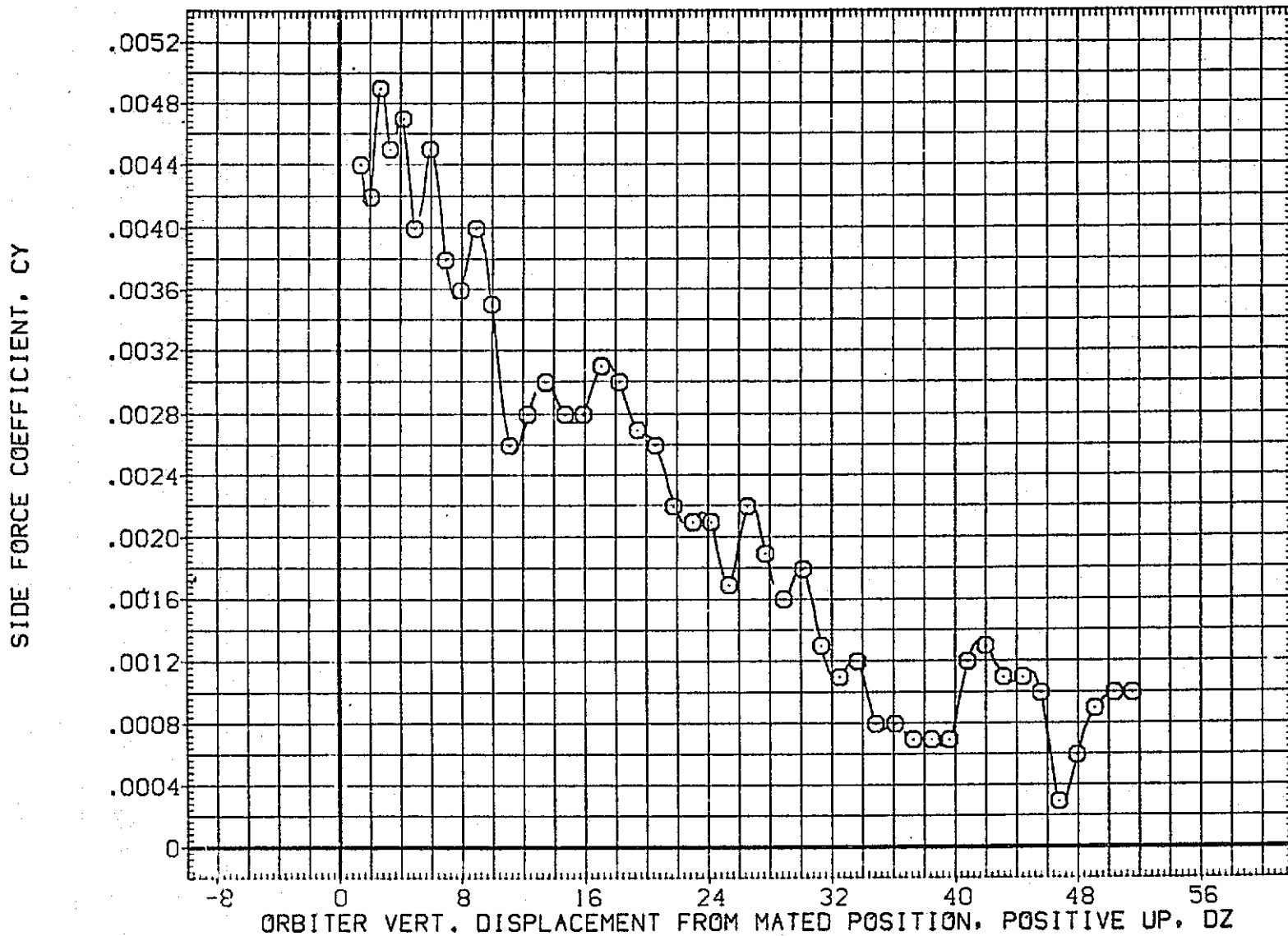


FIG. 212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE108)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILRON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	OPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

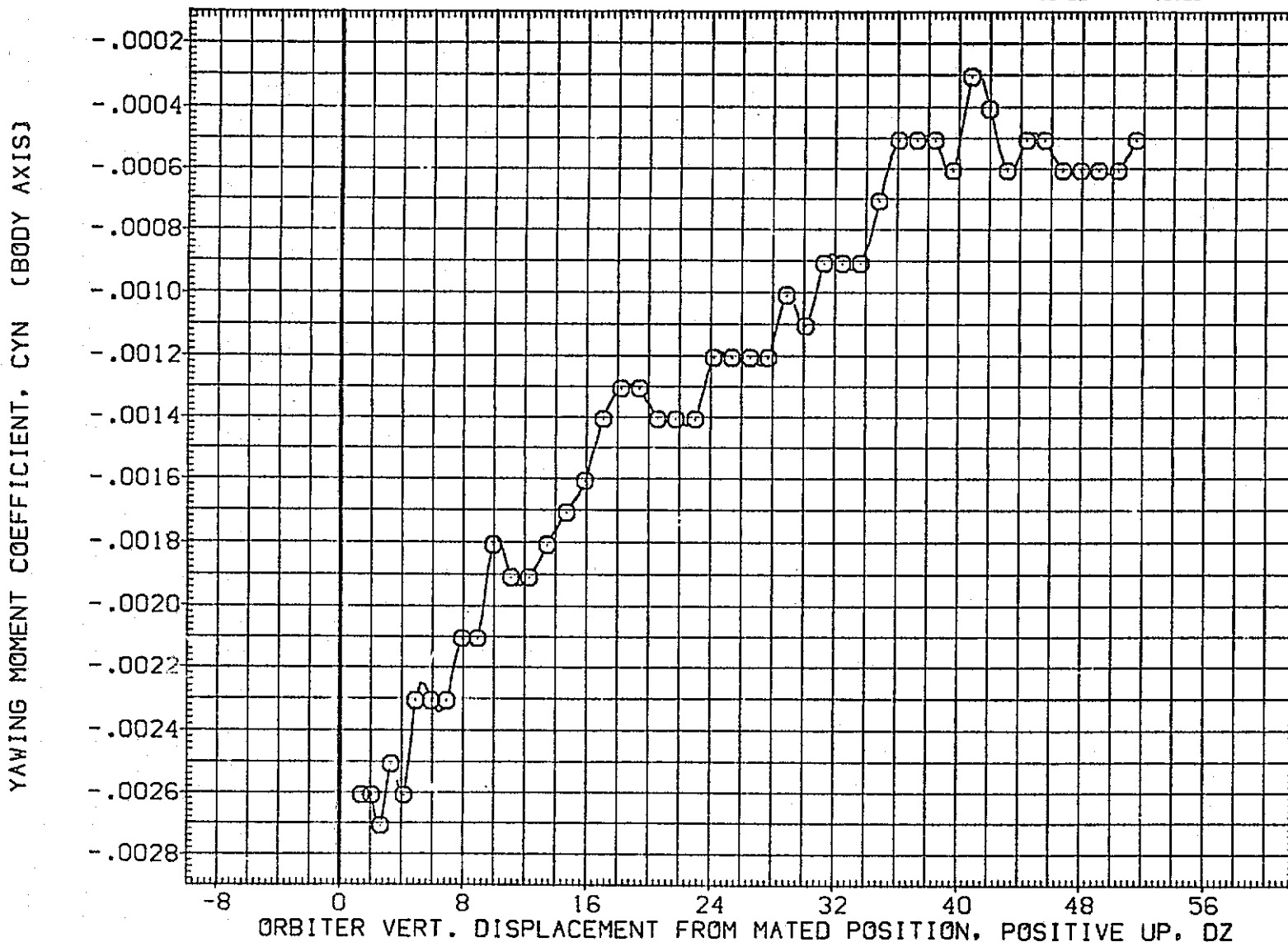


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		AILERON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	90. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

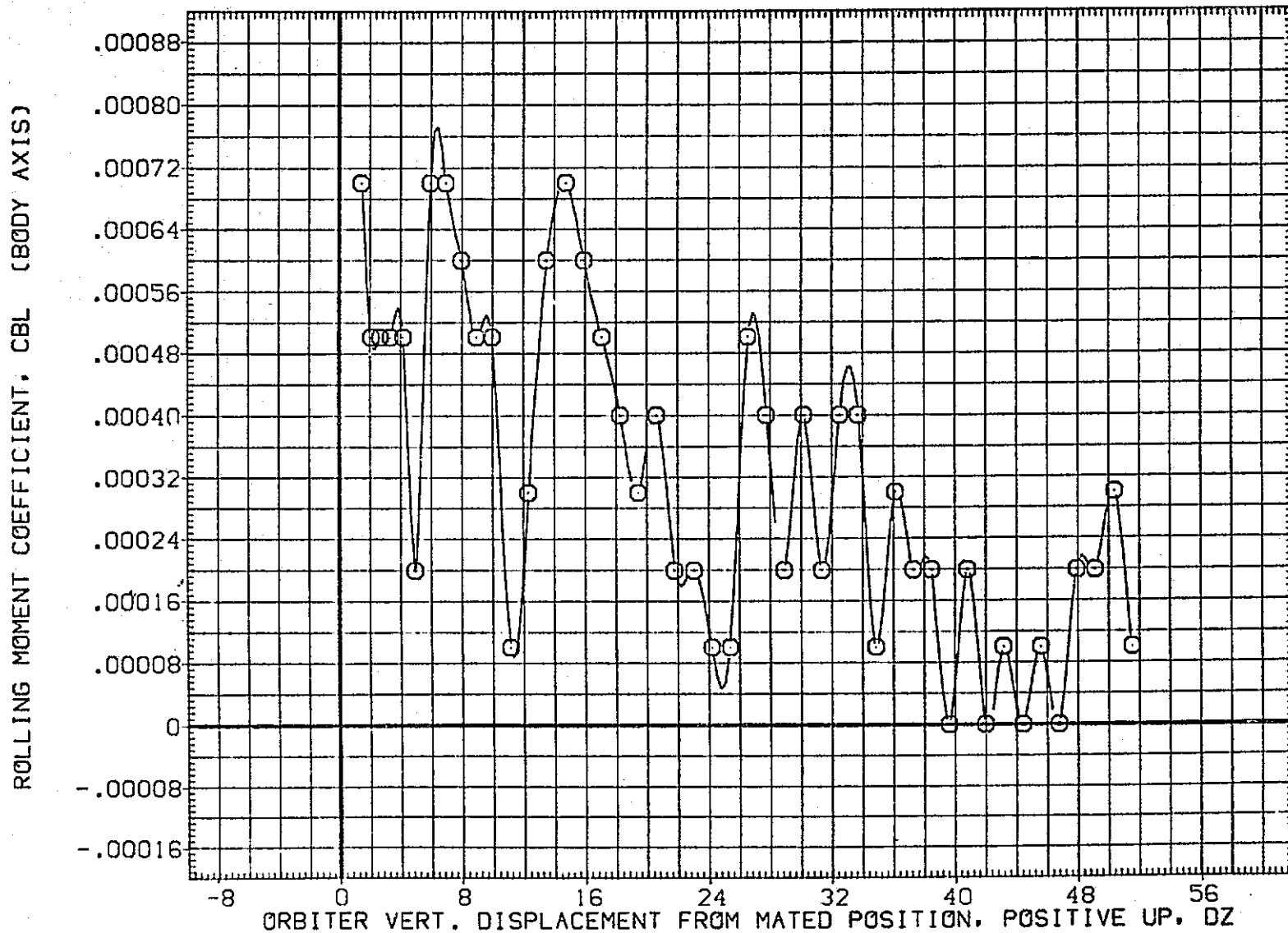


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE108)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		AILERON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XM RP	1339.9000	IN. XC
		BETA0	.000	OPHI	.000	YM RP	.0000	IN. YC
						TM RP	190.7500	IN. ZC
						SCALE	.0125	

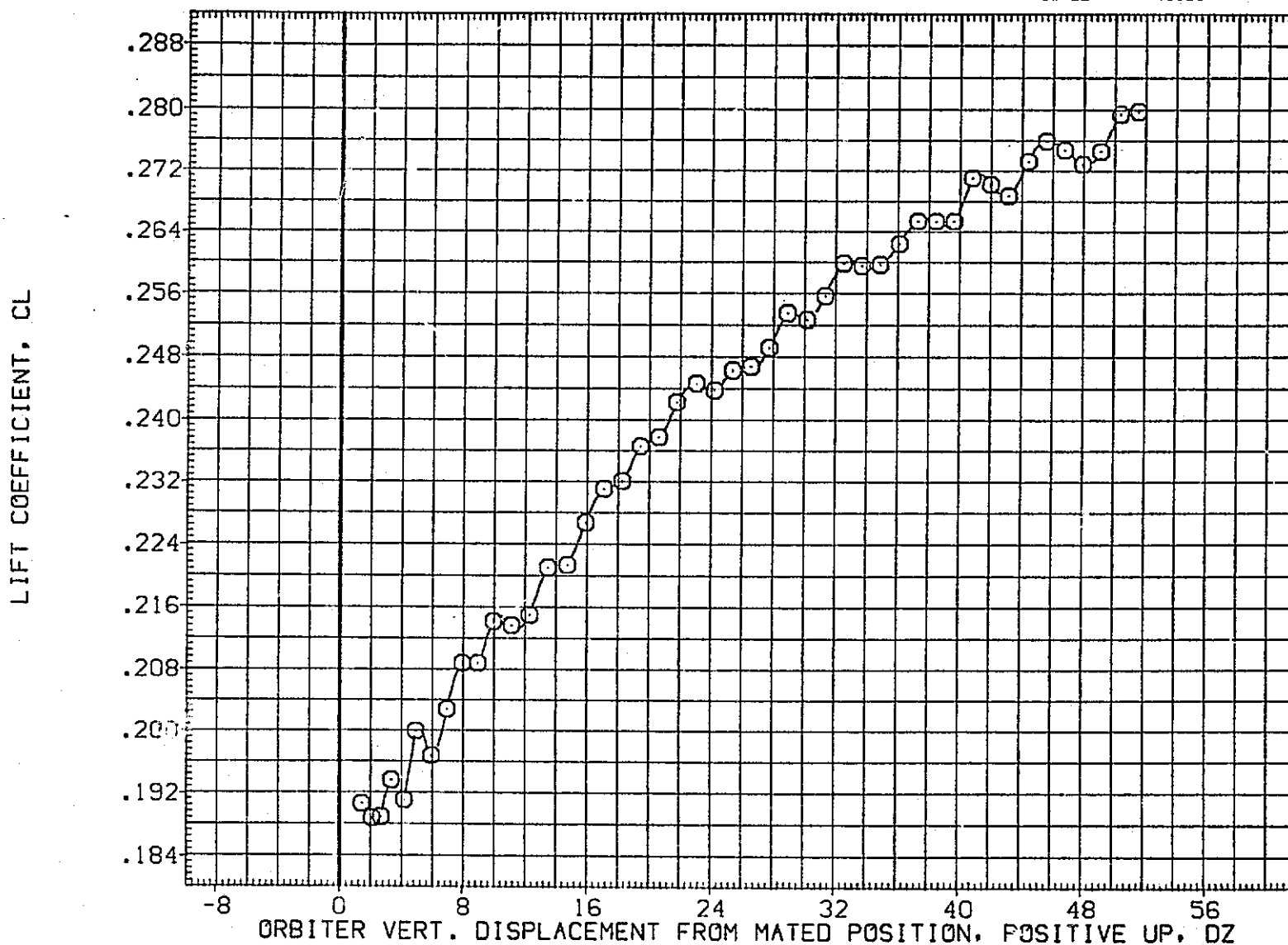


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	SQ.FT.	
○	.600	2.000	.000	5.000	.000	5500.0000		
		STAB		ELEVON	5.000	327.7800	IN.	
		AILRON	.000	DX	.000	2348.0400	IN.	
		DY	.000	IORB	6.000	1339.9000	IN. XC	
		BETA0	.000	DPHI	.000	YMRP .0000	IN. YC	
						ZMRP 190.7500	IN. ZC	
						SCALE .0125		

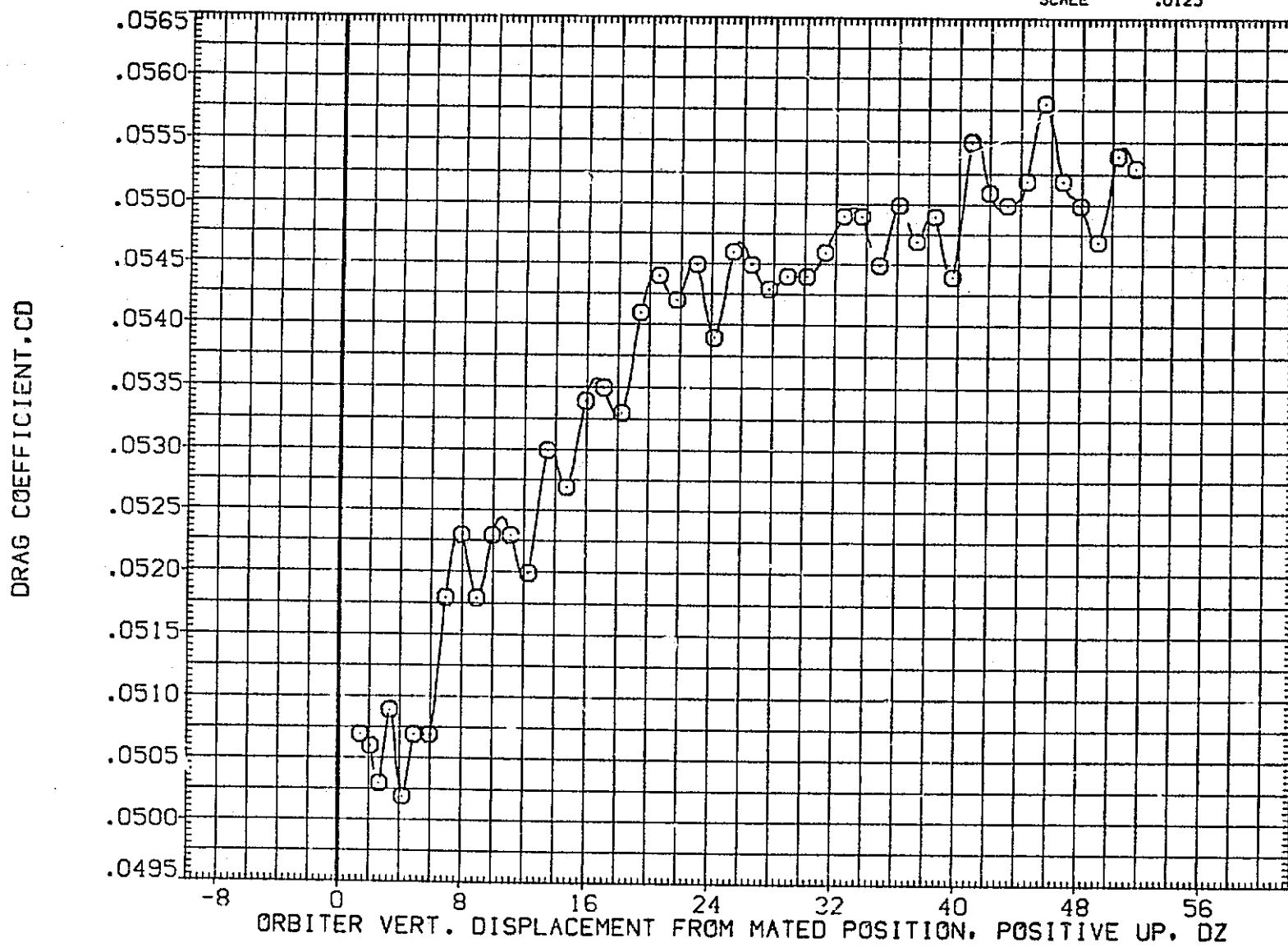


FIG.212 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE108

C.6

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE109)

SYMBOL
O

MACH	PARAMETRIC VALUES			
.601	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	AILRON	.000	OX	.000
	DY	.000	IORB	4.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

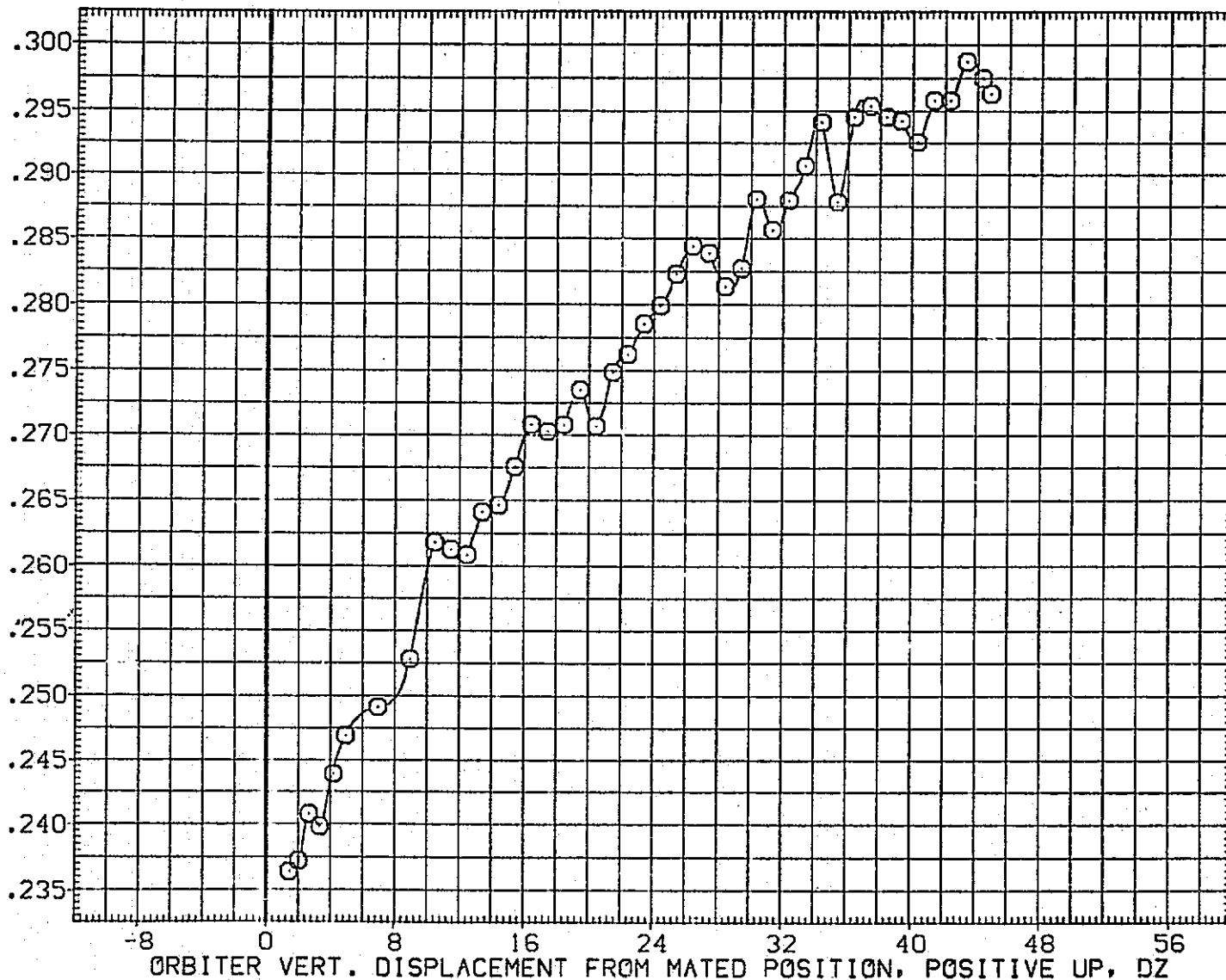


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILERON	.000	DX	.000
		DY	.000	IORB	4.000
		BETAG	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

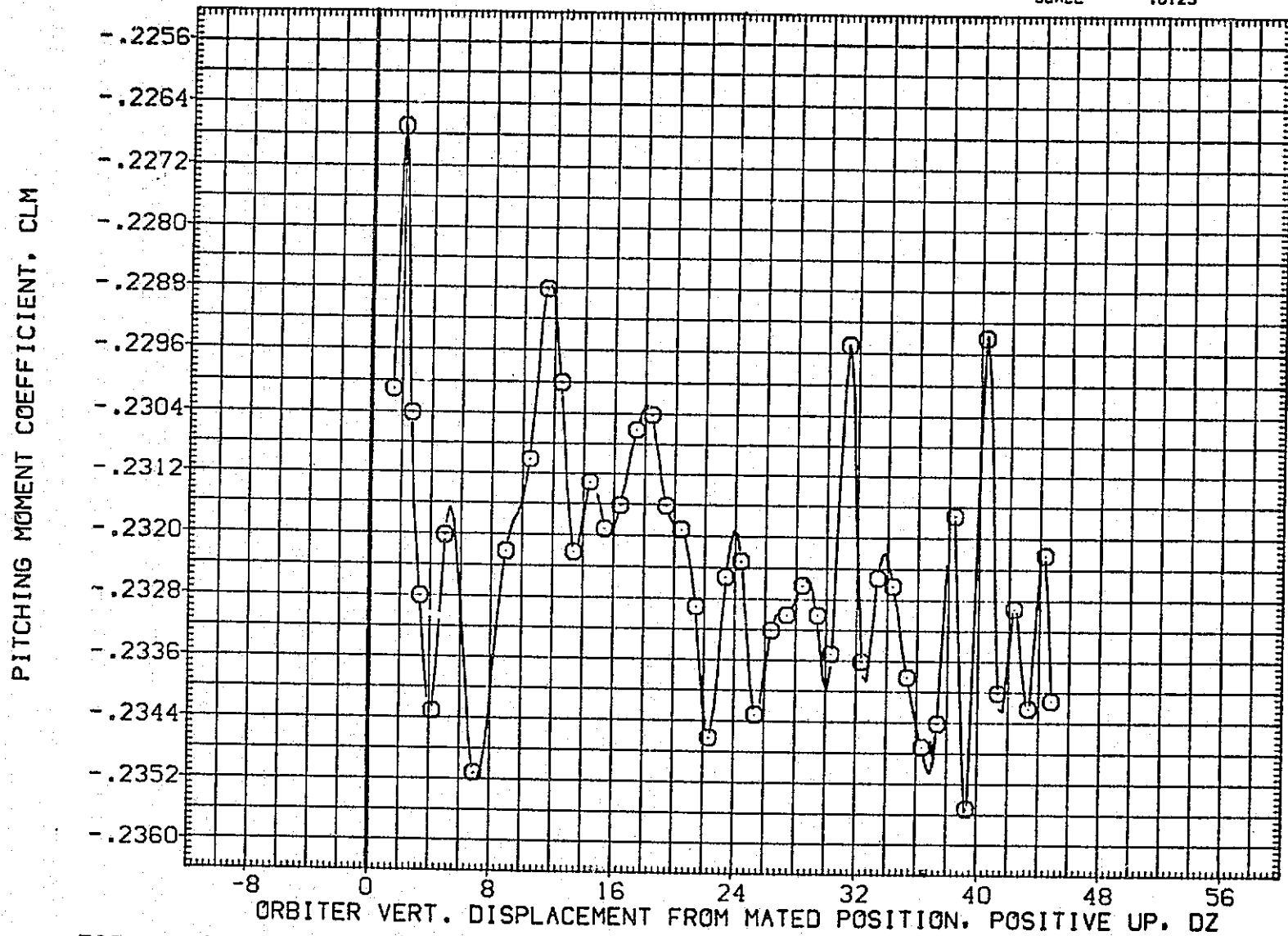


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE109)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

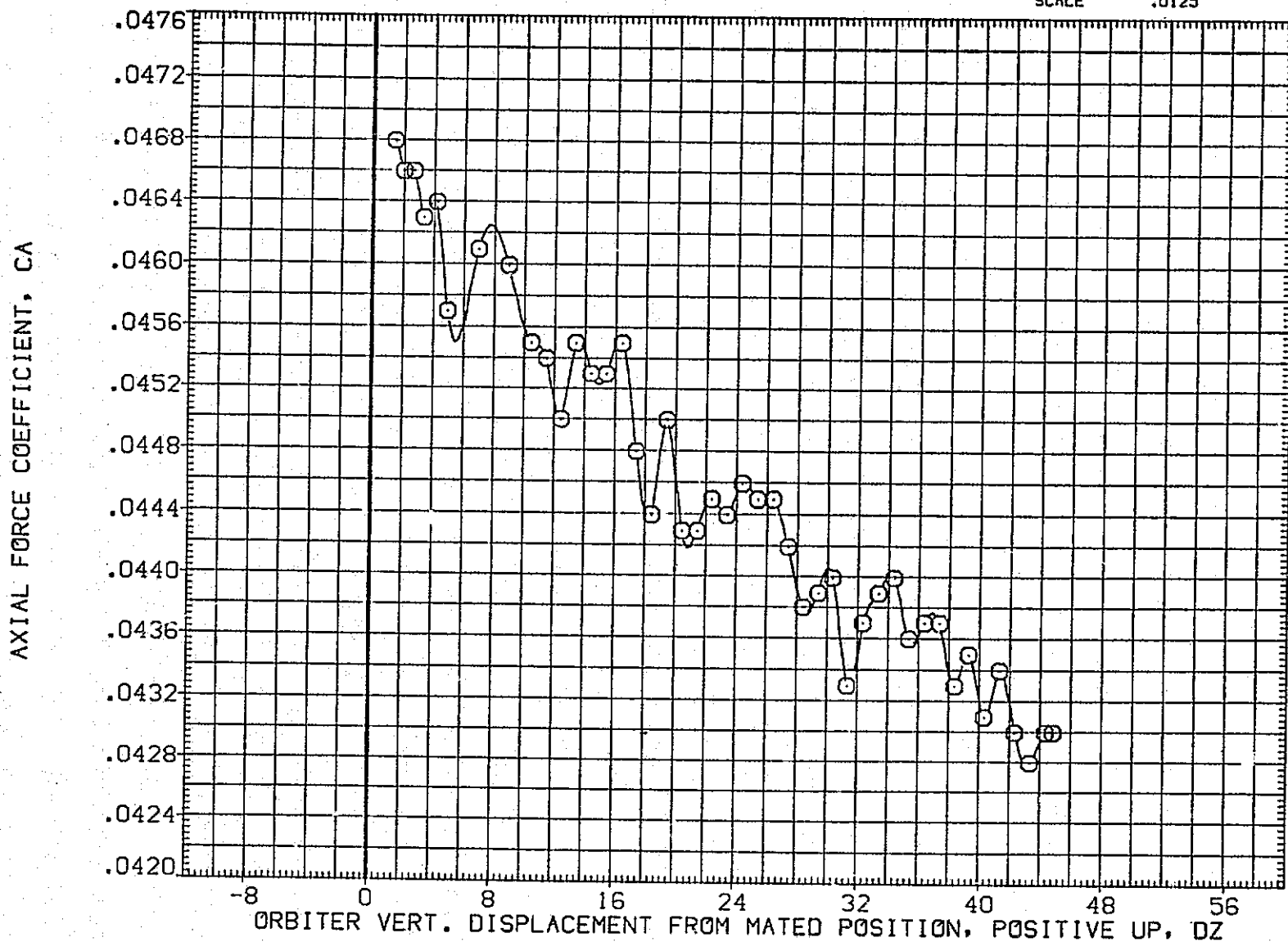


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SC. F.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

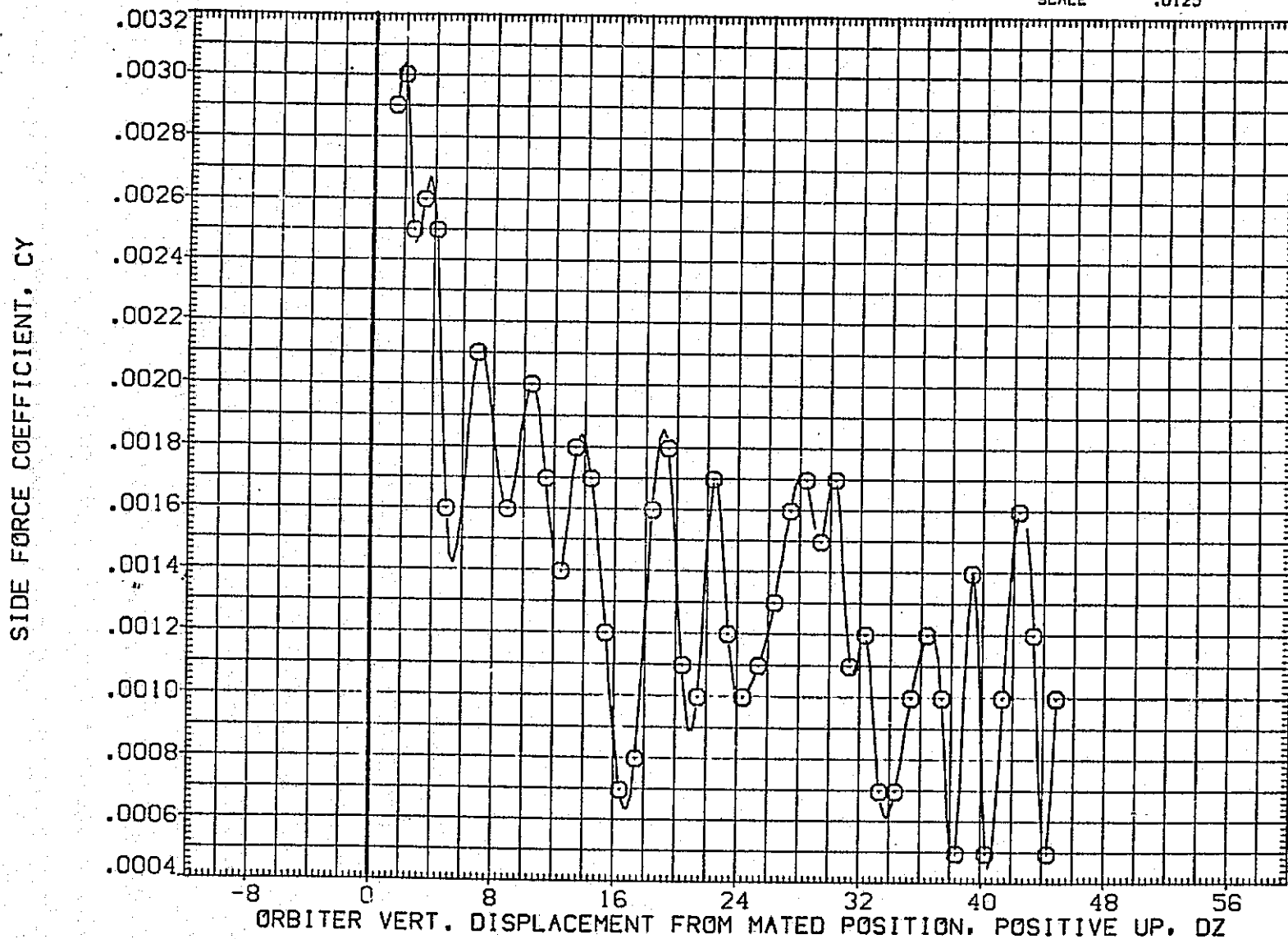


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE109)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.601	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		AILRON	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETAG	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

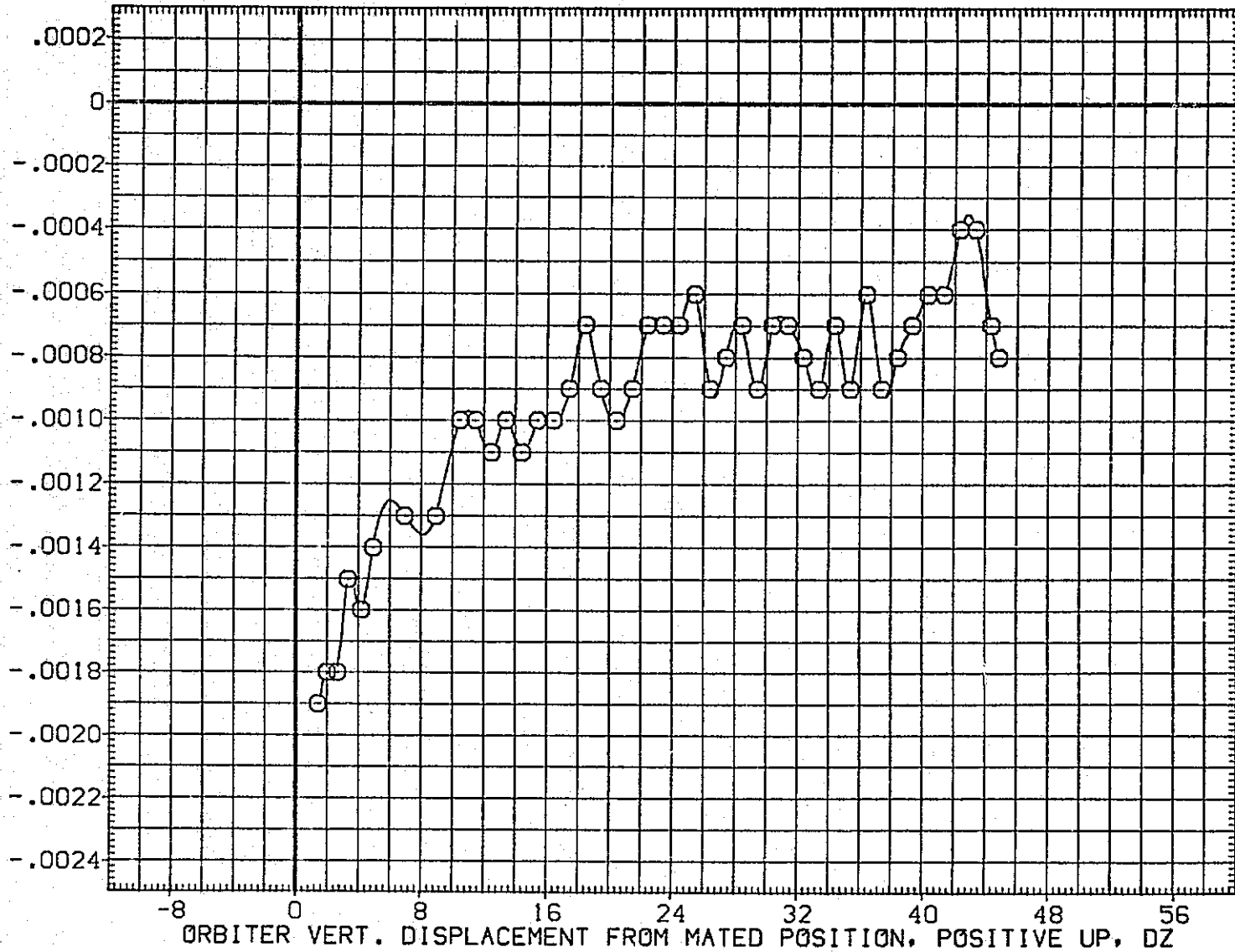


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

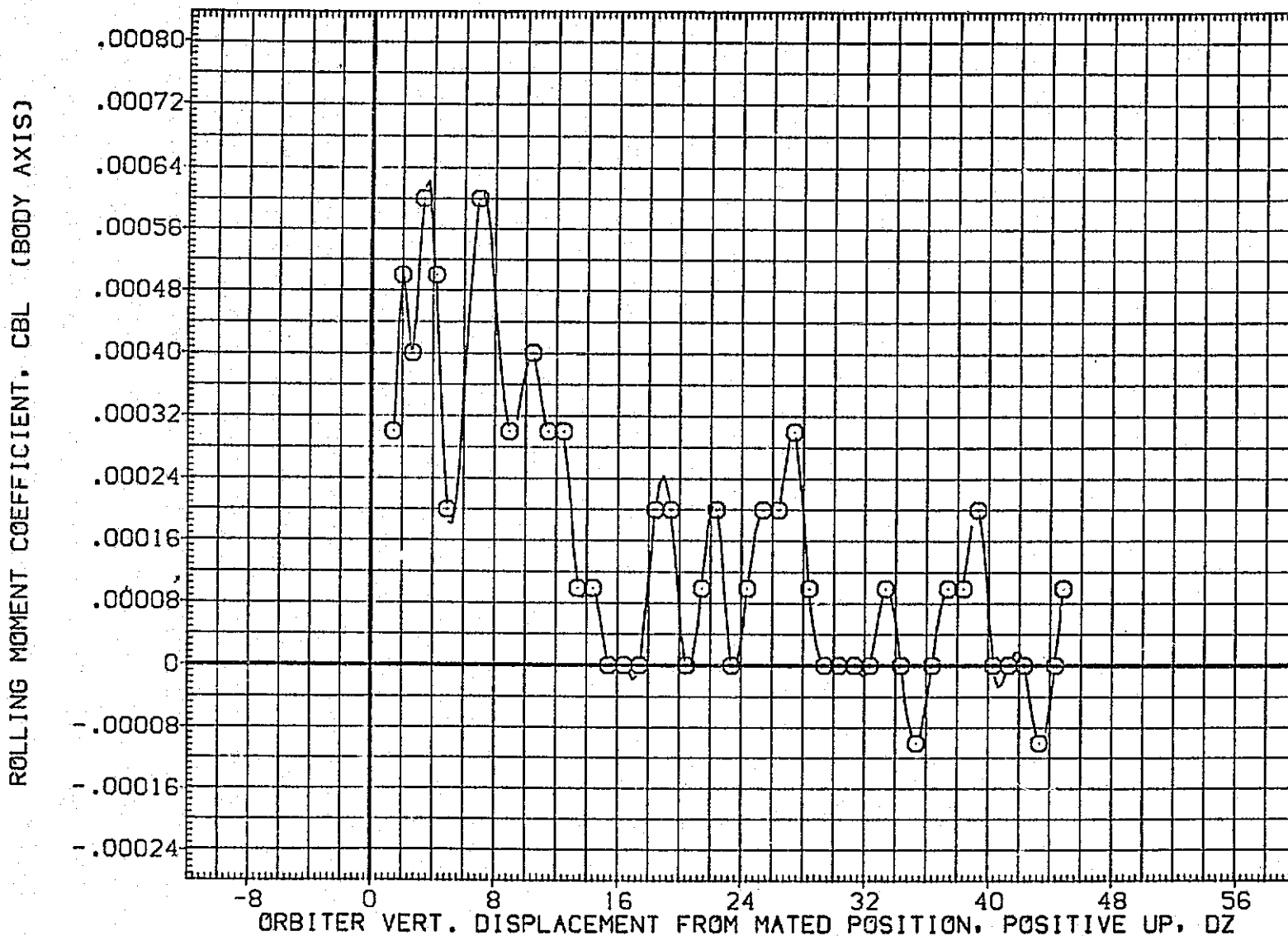


FIG. 213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE109)

SYMBOL

○

MACH	PARAMETRIC VALUES			
.601	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	AILRON	.000	DX	.000
	DY	.000	IORB	4.000
	BETAC	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

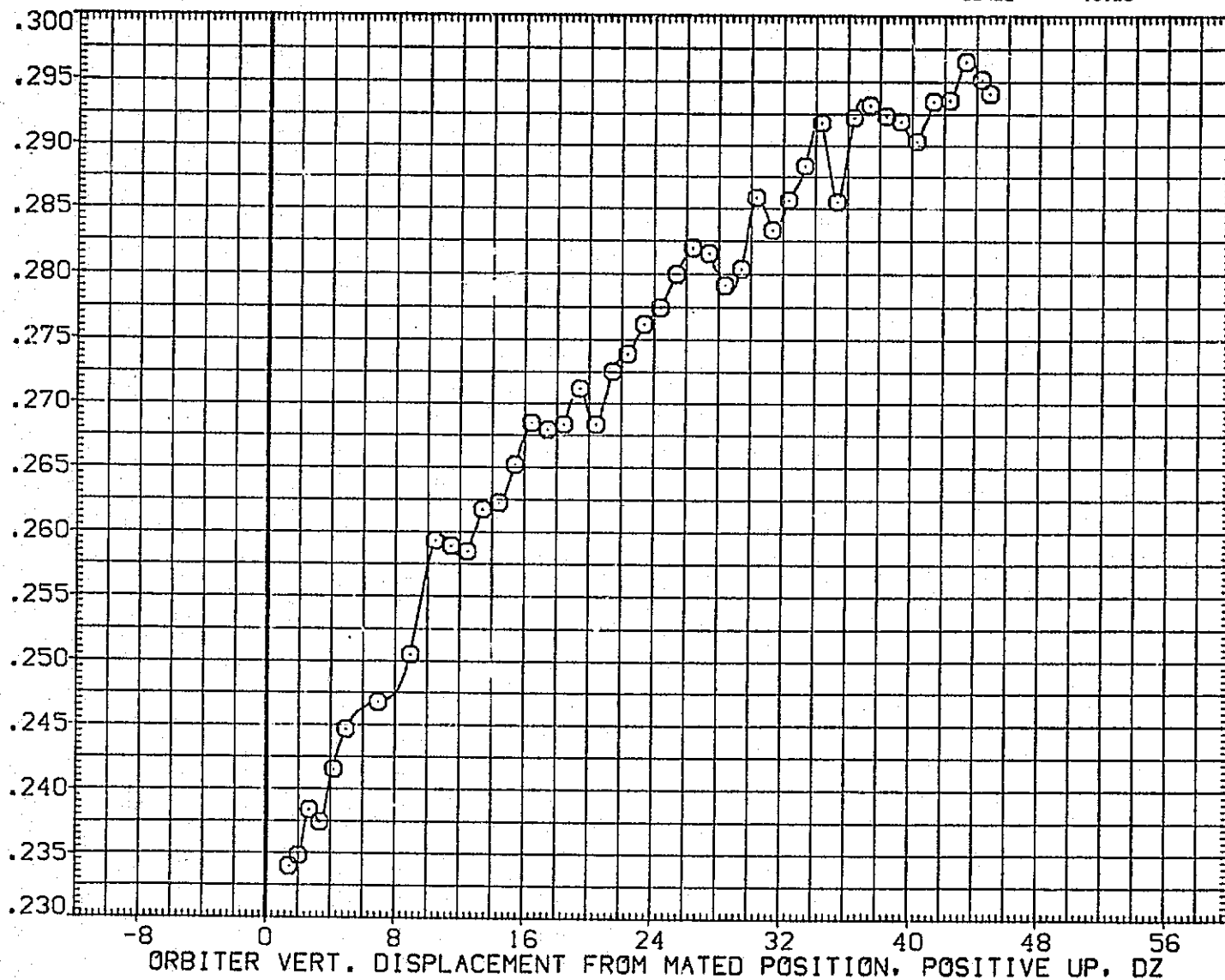


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

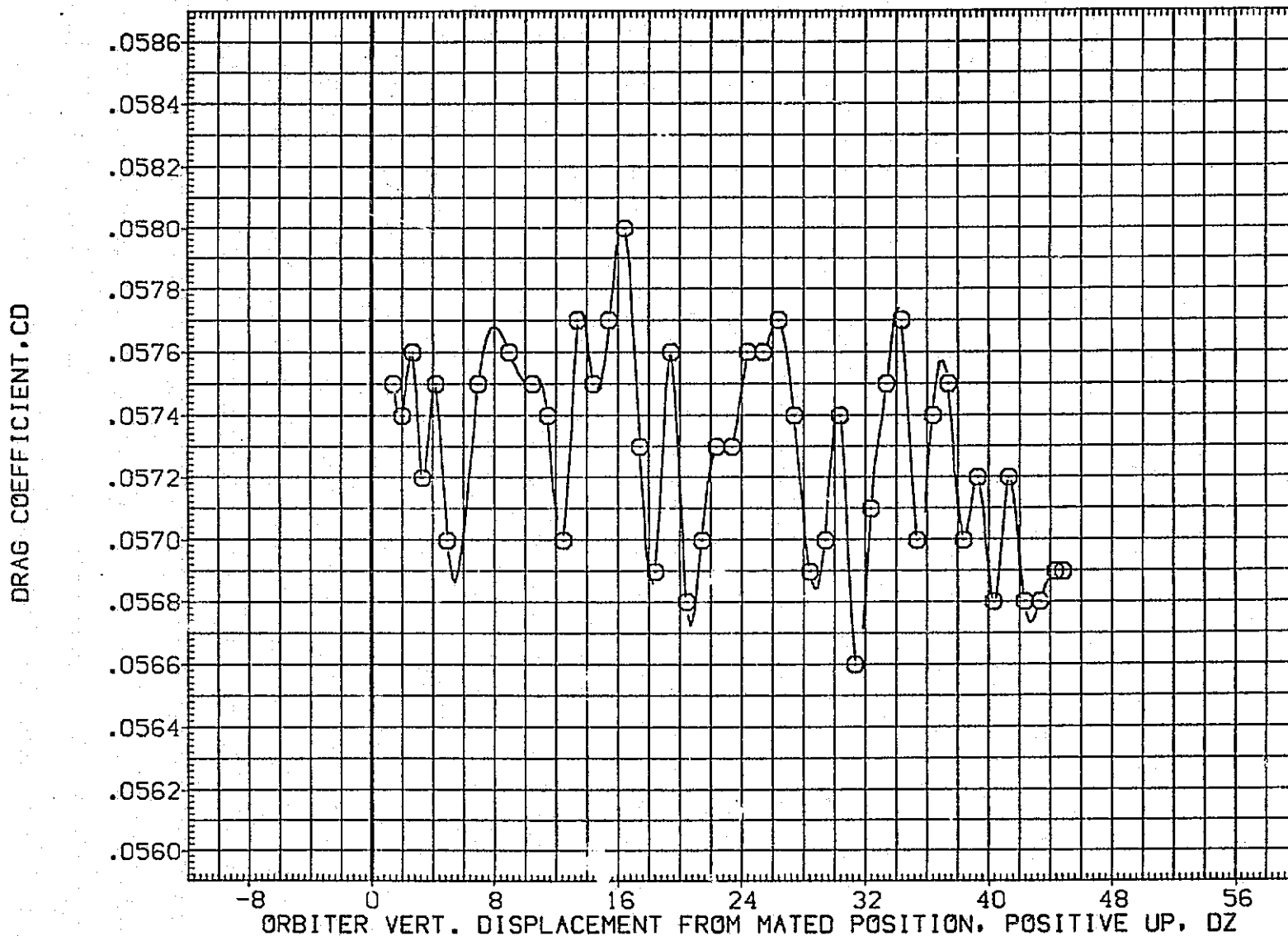


FIG.213 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=4, BETAC=0, BETA0=0, RFE109

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE110)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		AILRON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

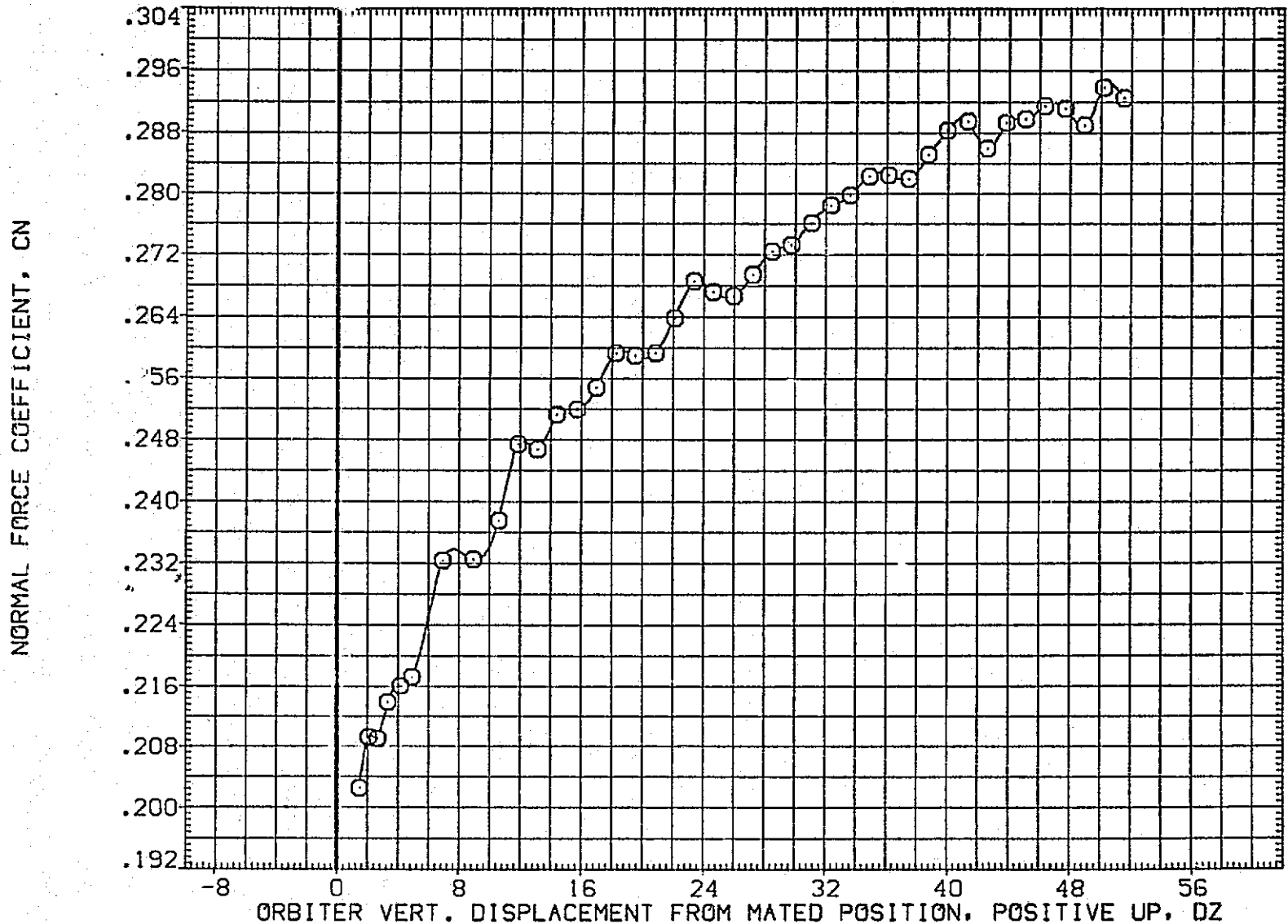


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

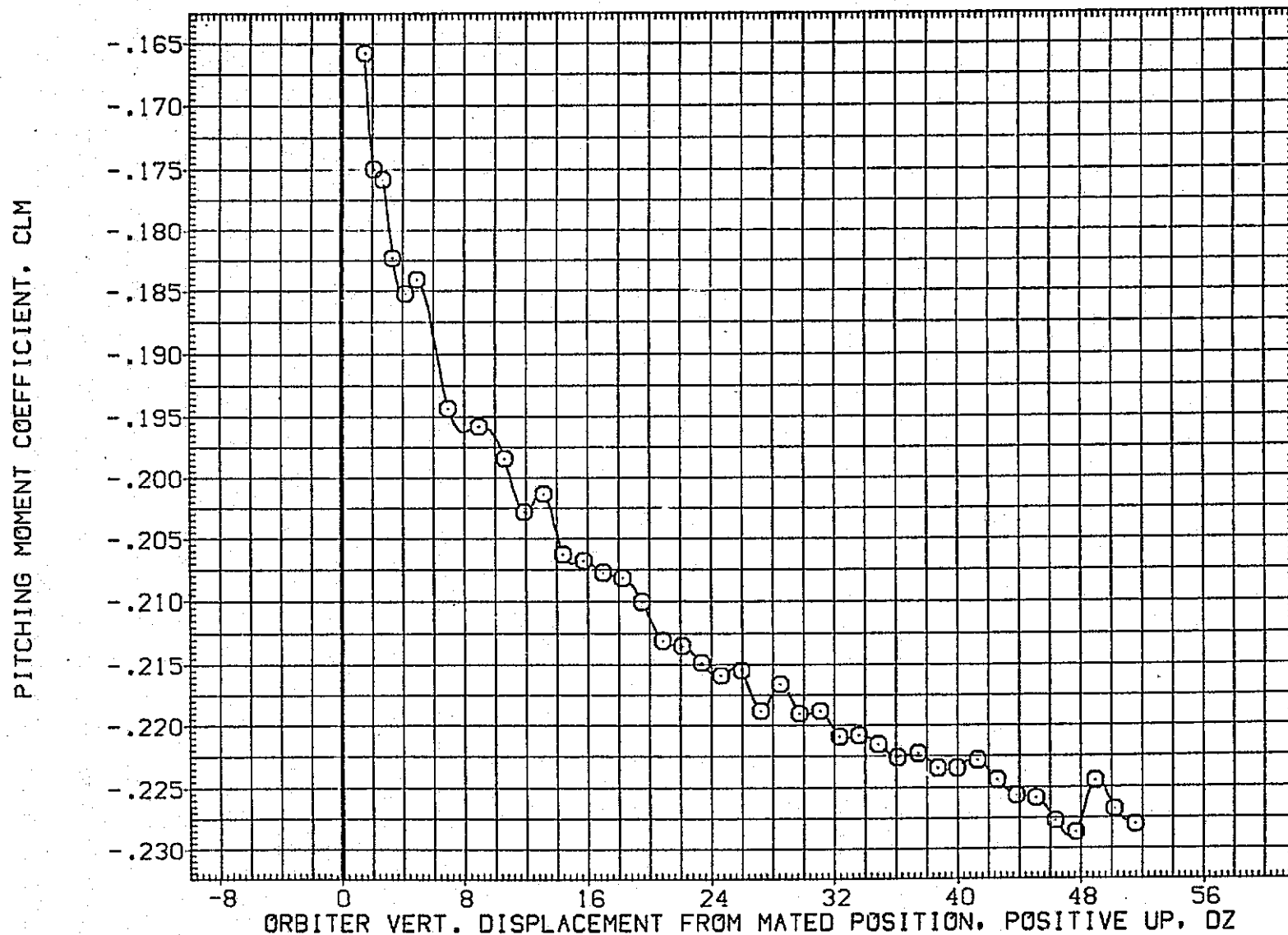


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE110)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILERON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.8000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

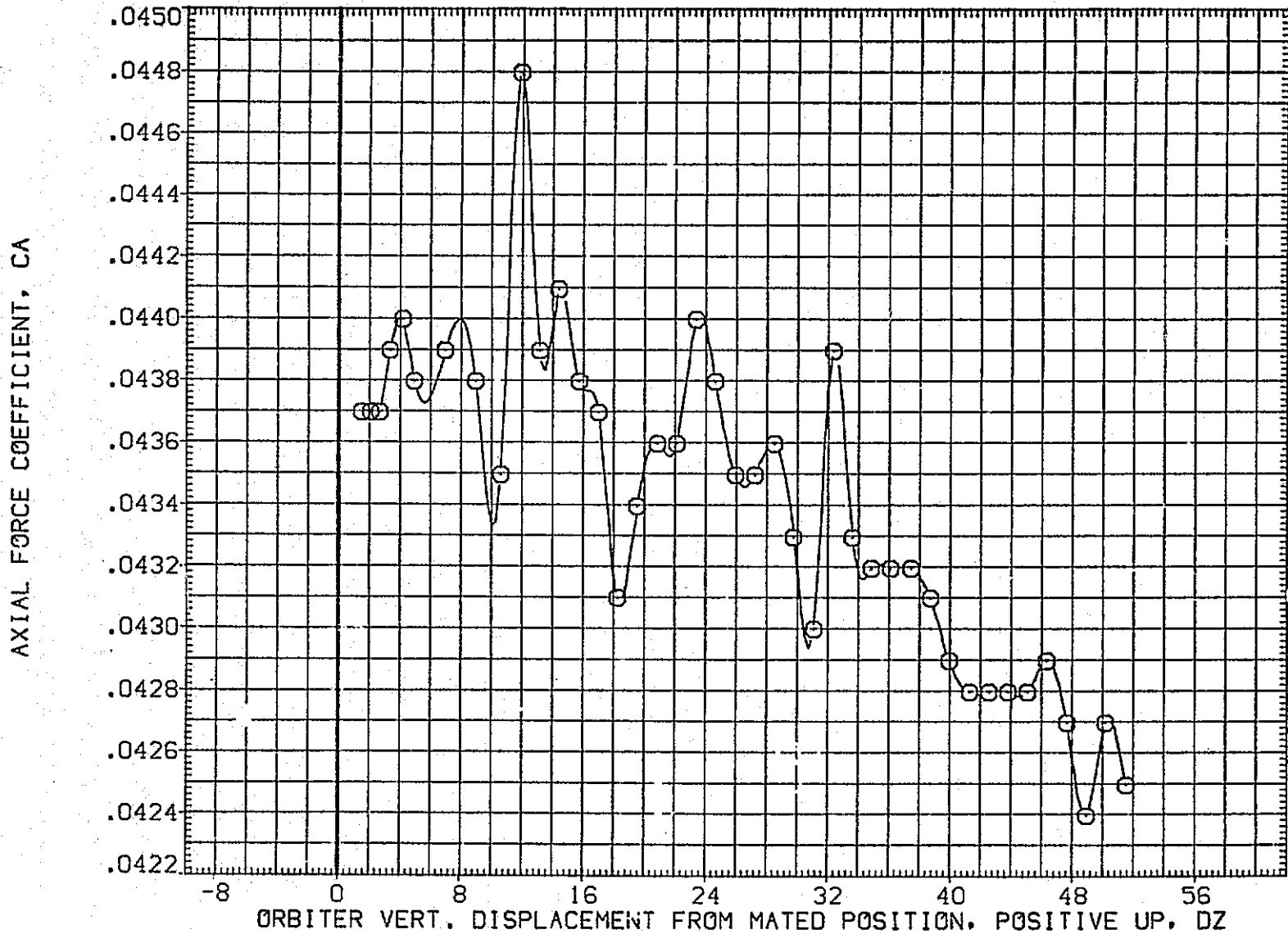


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

SYMBOL

MACH

PARAMETRIC VALUES

REFERENCE INFORMATION

○

.602

ALPHAC

2.000

BETAC

.000

SREF

5500.0000

SQ.FT.

STAB

5.000

ELEVON

.000

LREF

327.7800

IN.

AILRON

.000

DX

.000

BREF

2348.0400

IN.

DY

.000

IORB

6.000

XMRP

1339.9000

IN. XC

BETA0

.000

DPHI

.000

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

SIDE FORCE COEFFICIENT, CY

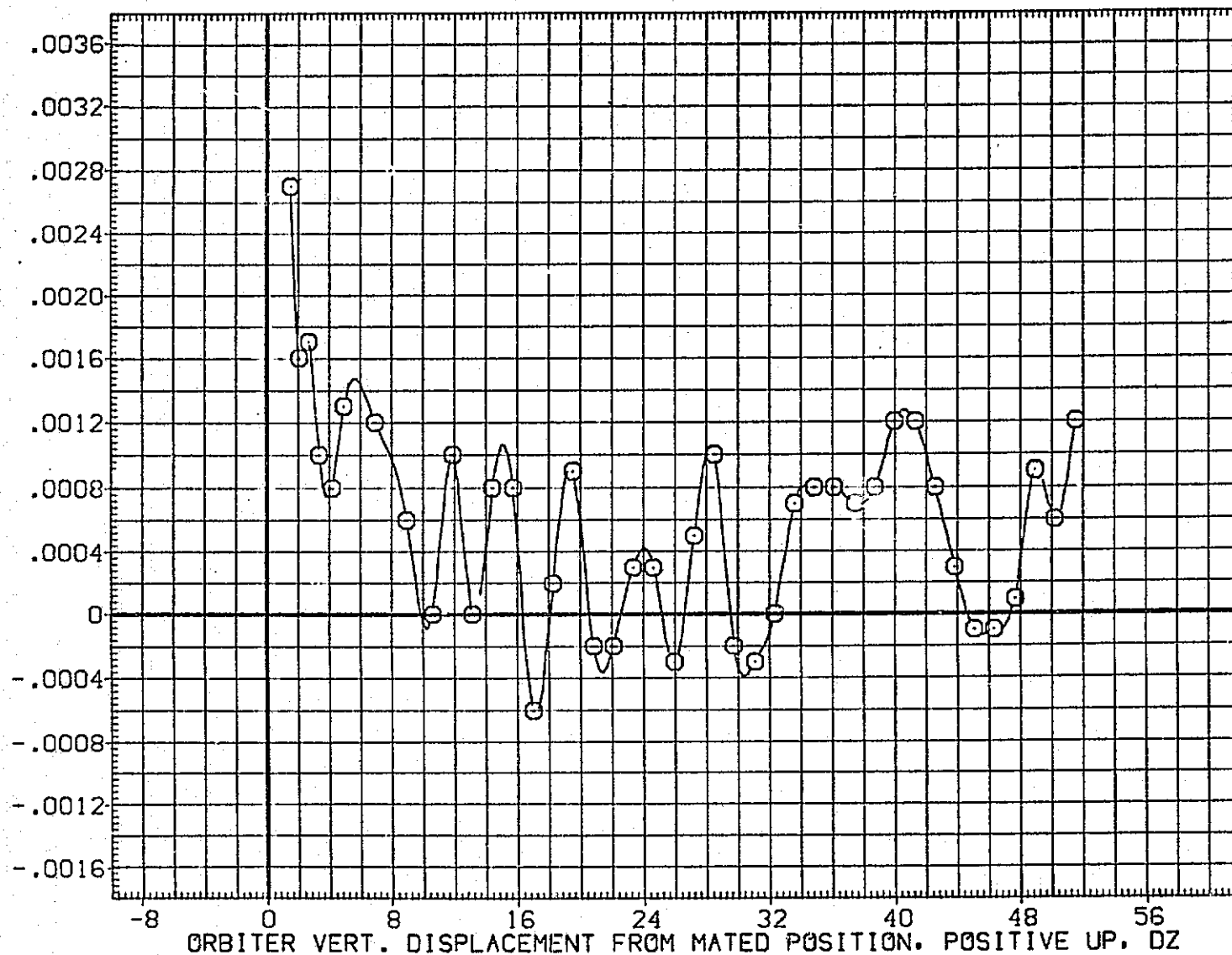


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE110)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

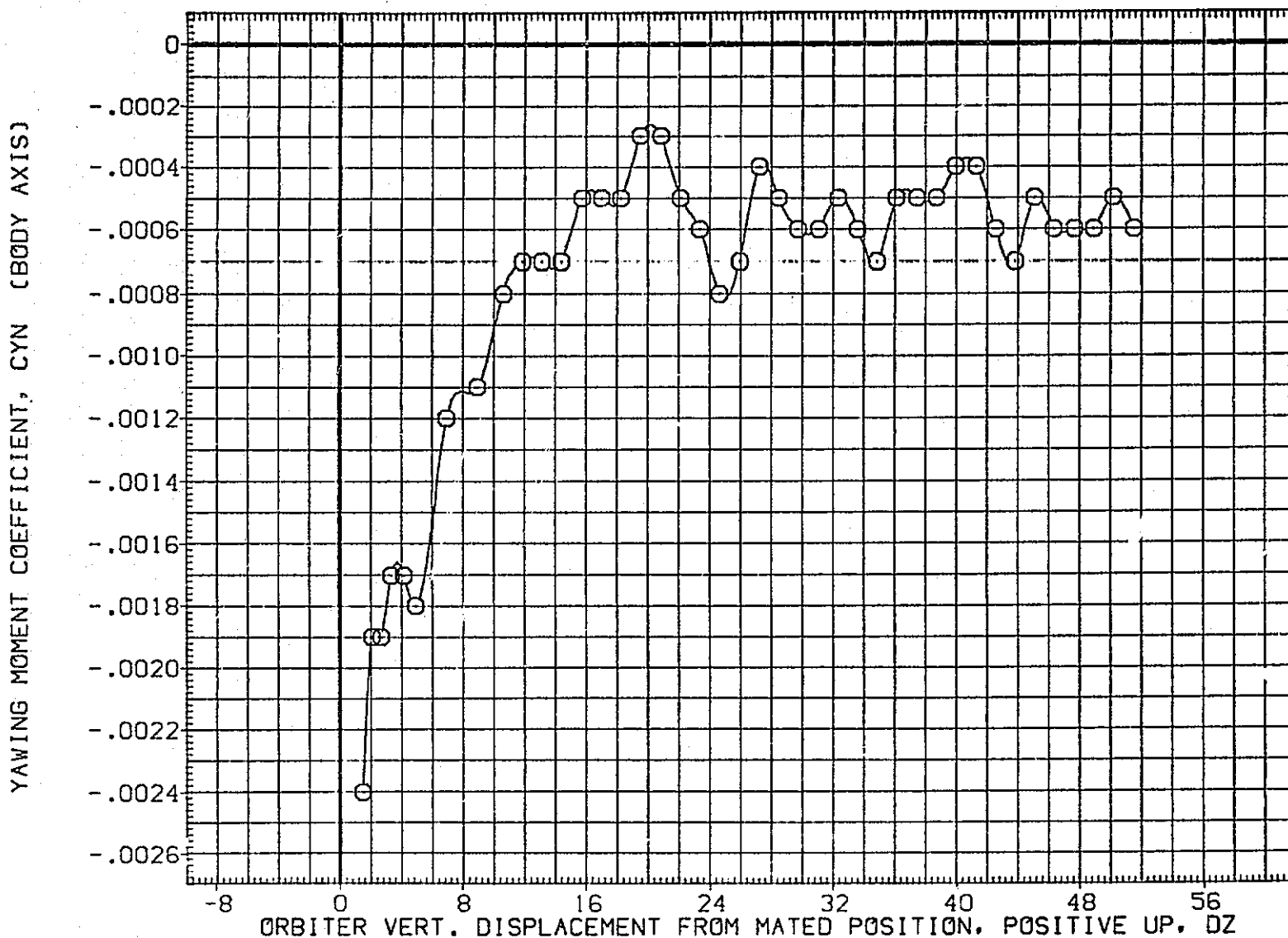


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

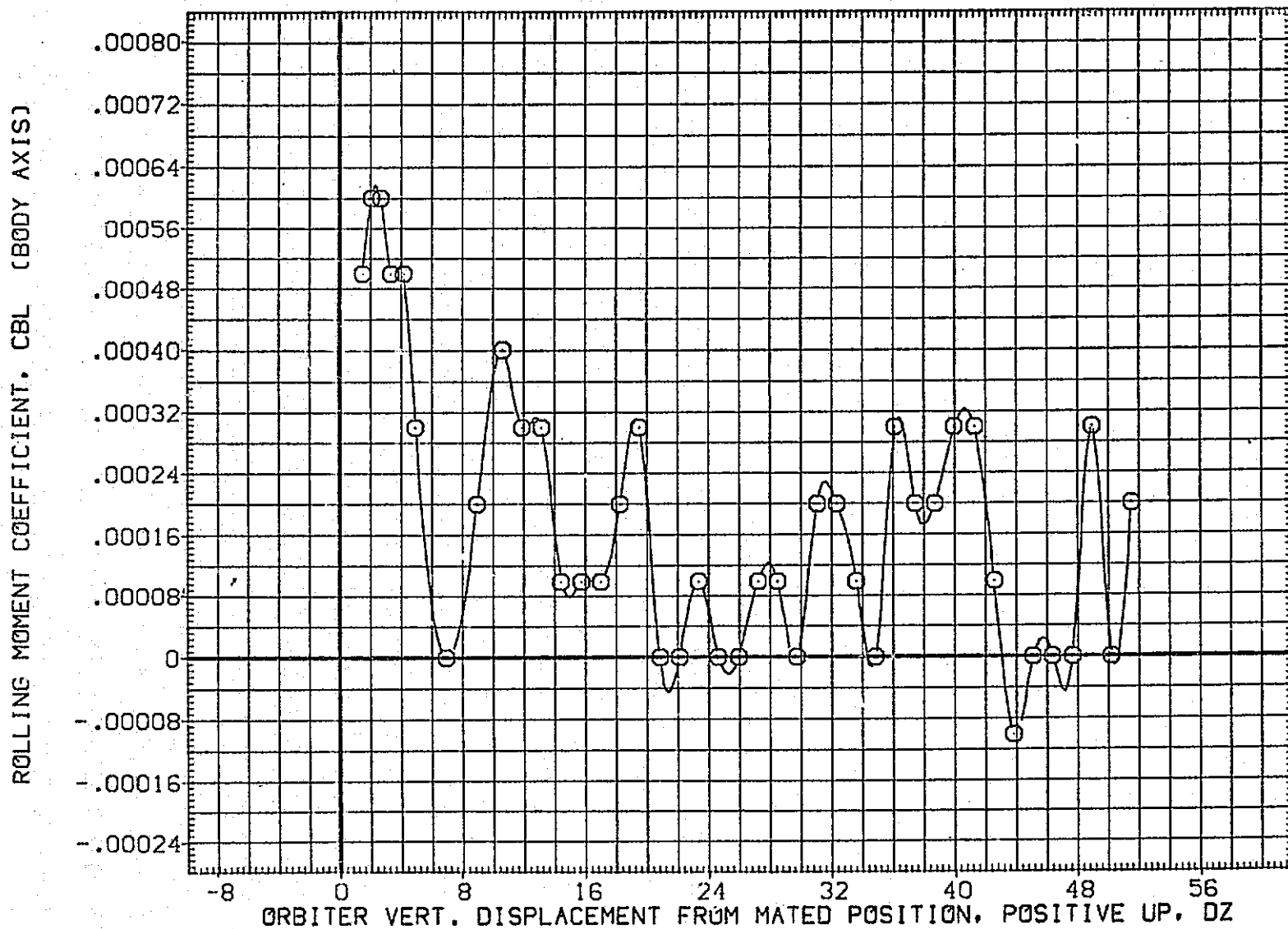


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE110)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELFVON	.000	LREF	327.7800	IN.
		AILRON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

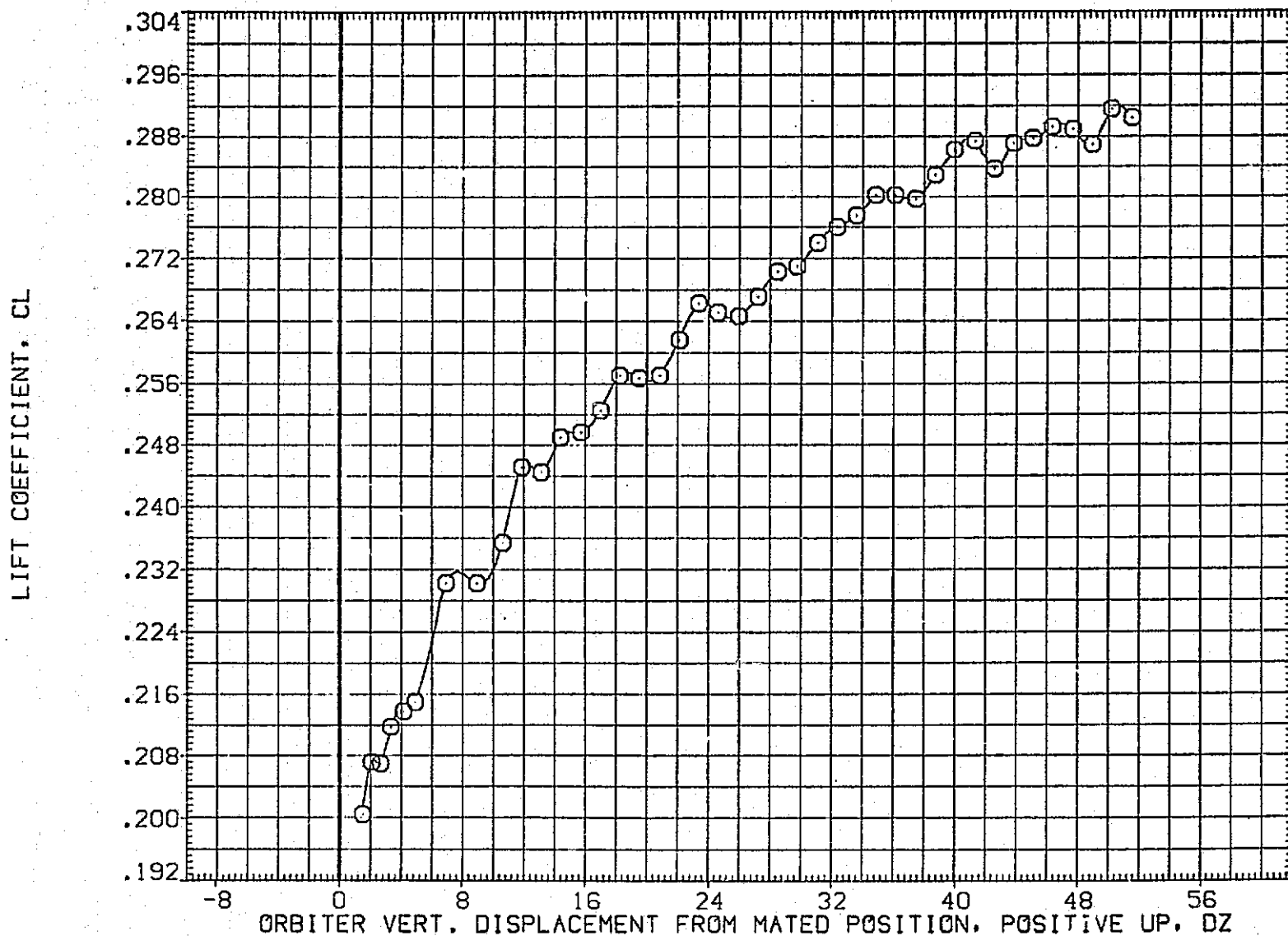


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

SYMBOL

MACH

PARAMETRIC VALUES

REFERENCE INFORMATION

○

.602

ALPHAC

2.000

BETAC

.000

SREF

5500.0000

SQ.Ft.

STAB

5.000

ELEVON

.000

LREF

327.7800

IN.

AILRON

.000

OX

.000

BREF

2348.0400

IN.

DY

.000

IORB

6.000

XMRP

1339.9000

IN. XC

BETA0

.000

OPHI

.000

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

DRAG COEFFICIENT, CD

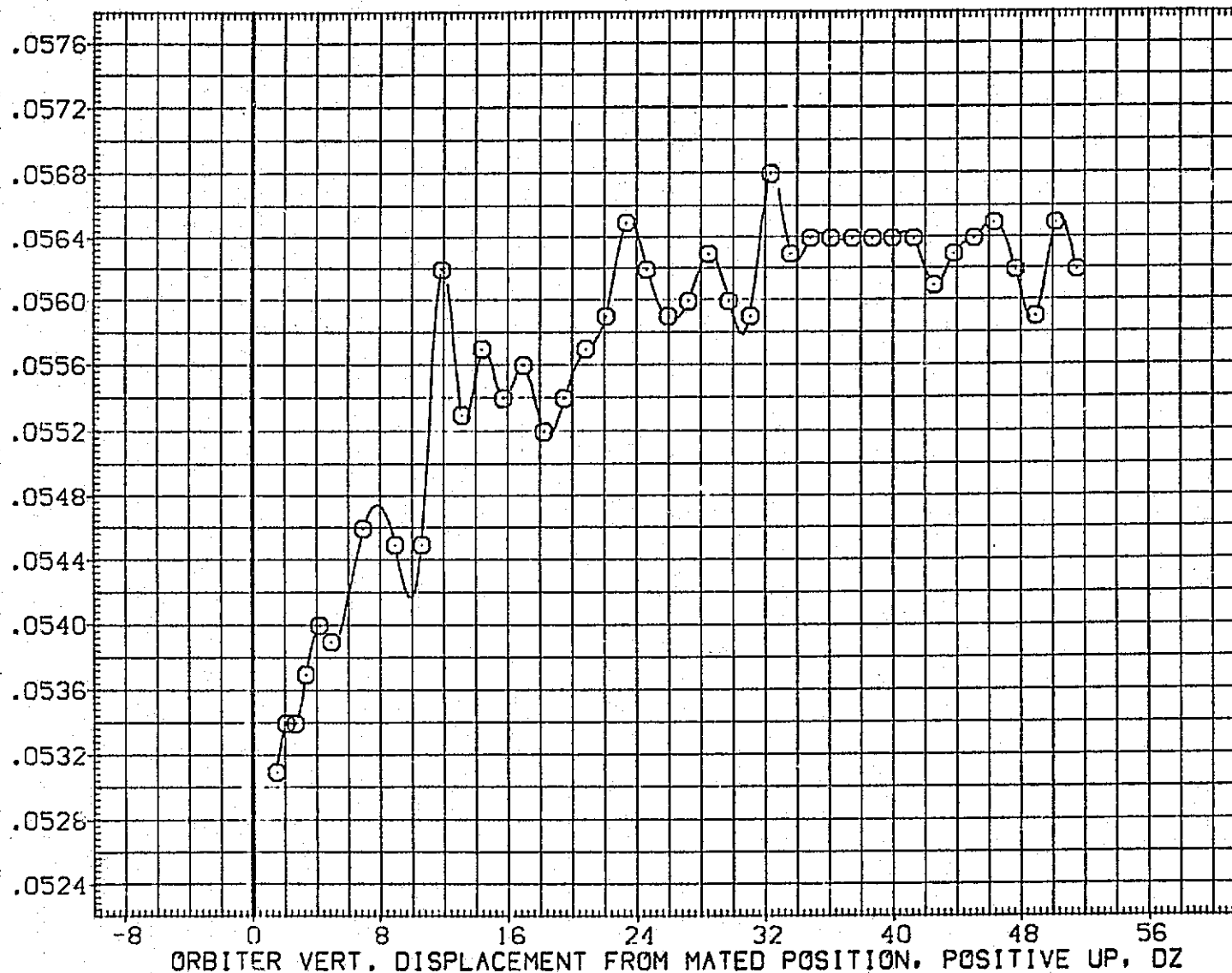


FIG.214 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE110

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE111)

SYMBOL

○

MACH	PARAMETRIC VALUES			
.600	ALPHAC	2.000	BETAC	.000
	STAB	5.000	ELEVON	.000
	ATLRON	.000	OX	.000
	DY	.000	IORB	8.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ, FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

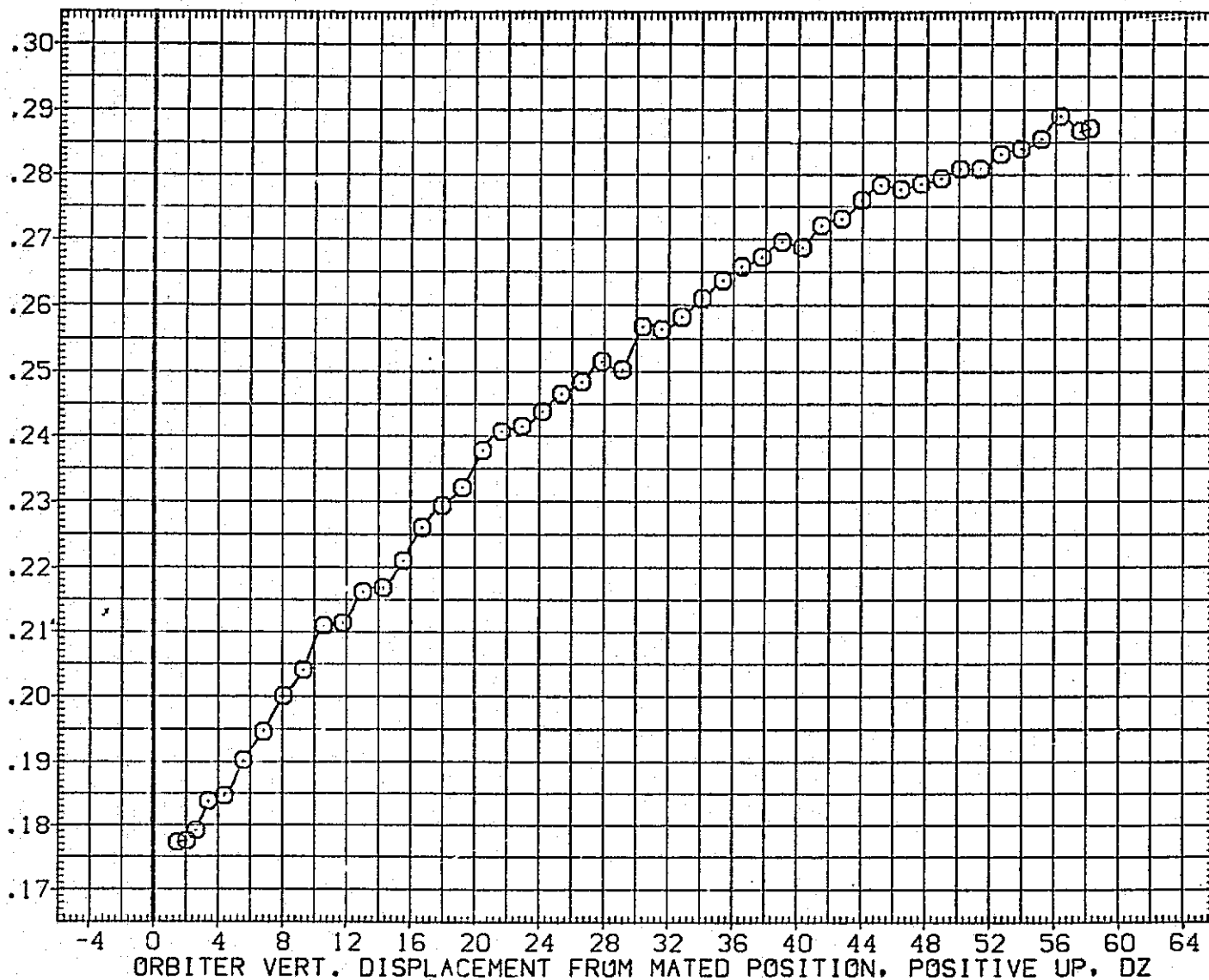


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	IN. XC
○	.600	2.000	.000	.000	.000	5500.0000	327.7800	2348.0400
		5.000	.000	.000	.000	1339.9000	.0000	190.7500
		AILRON	.000	10RB	8.000			
		DY	.000	DPHI	.000			
		BETAG	.000					
						SCALE	.0125	

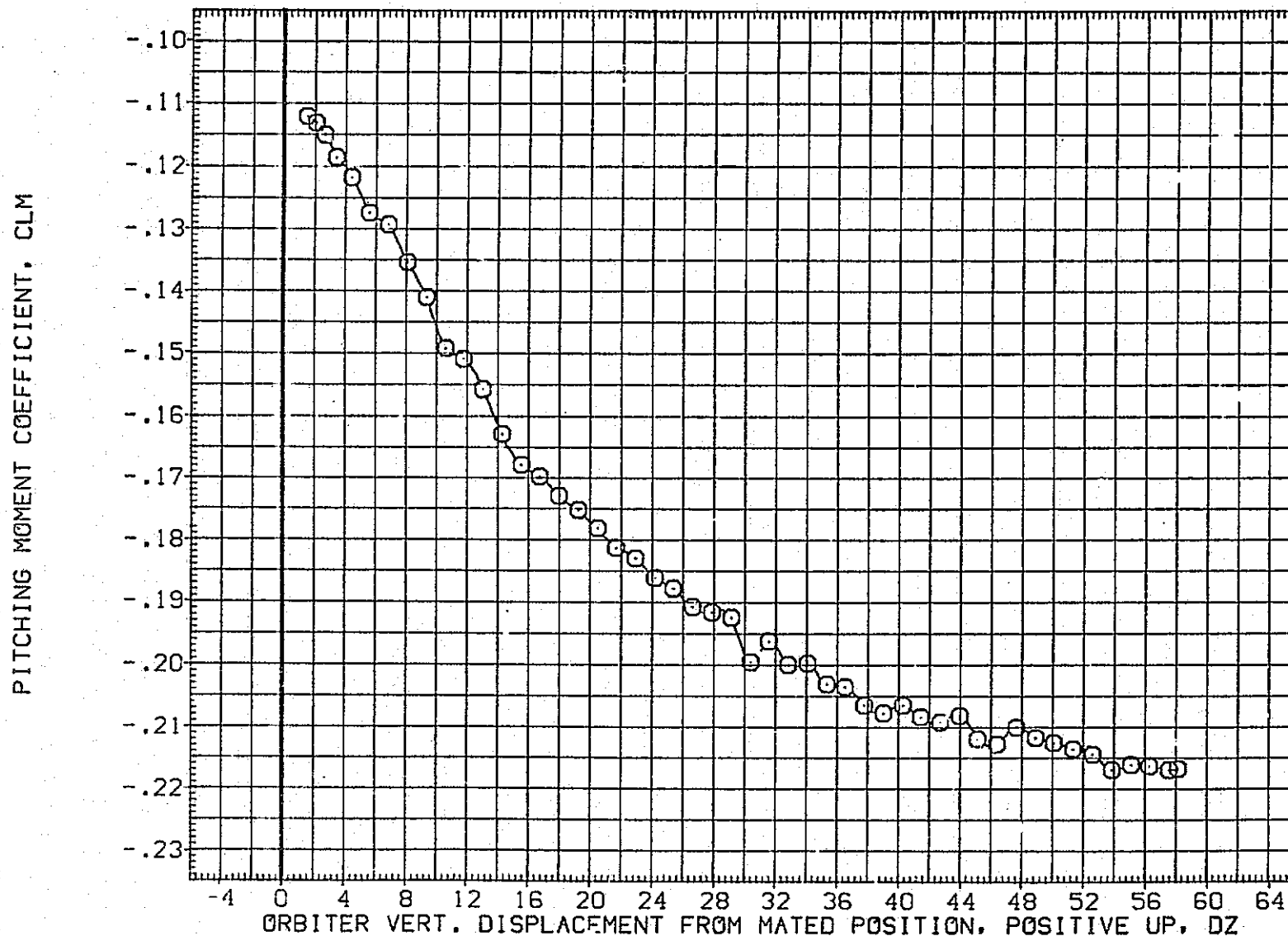


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, 10RB=8, BETAC=0, BETA0=0, RFE111

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE111)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	.000	LREF	327.7800	IN.
		AILRON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

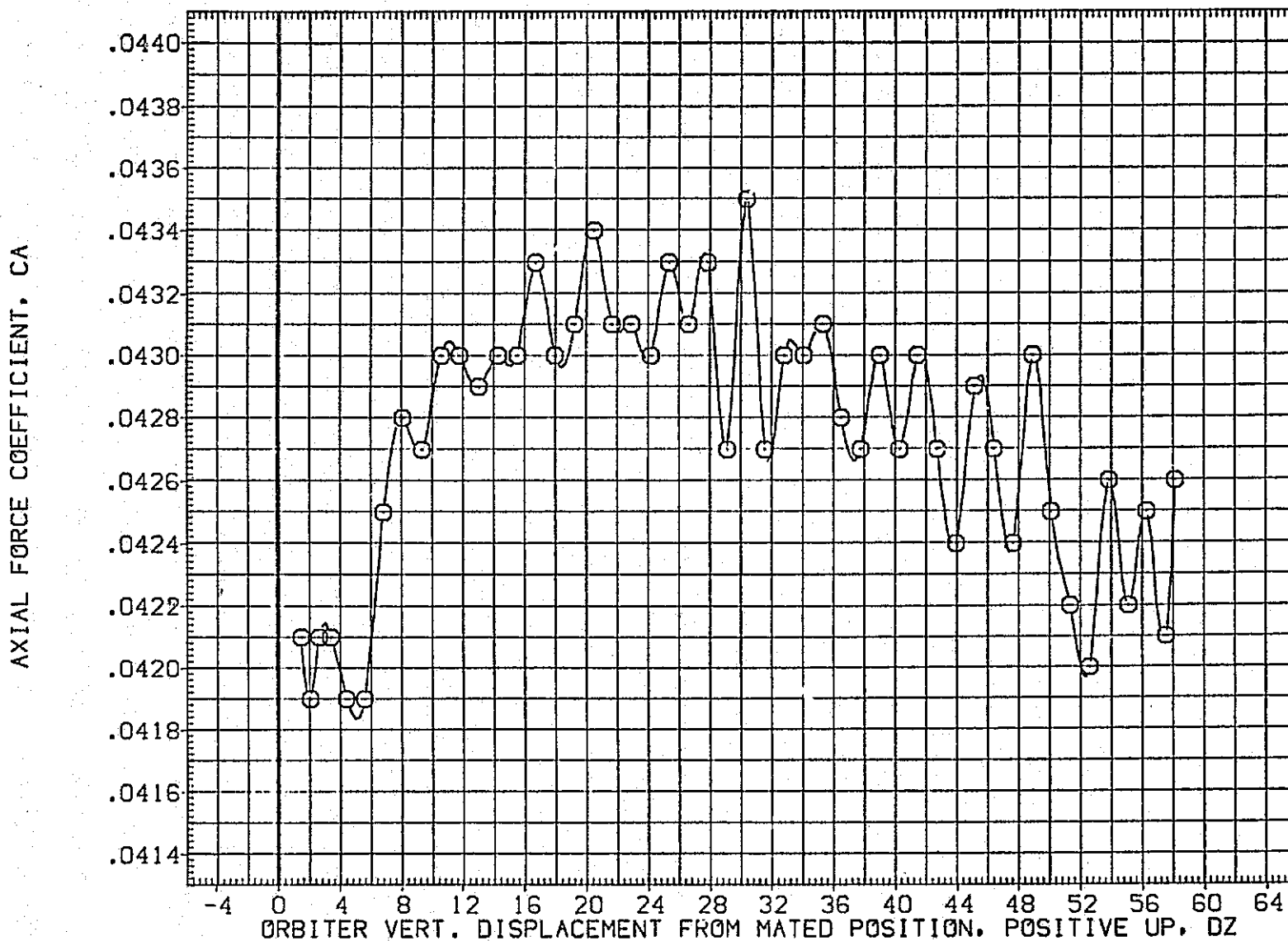


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

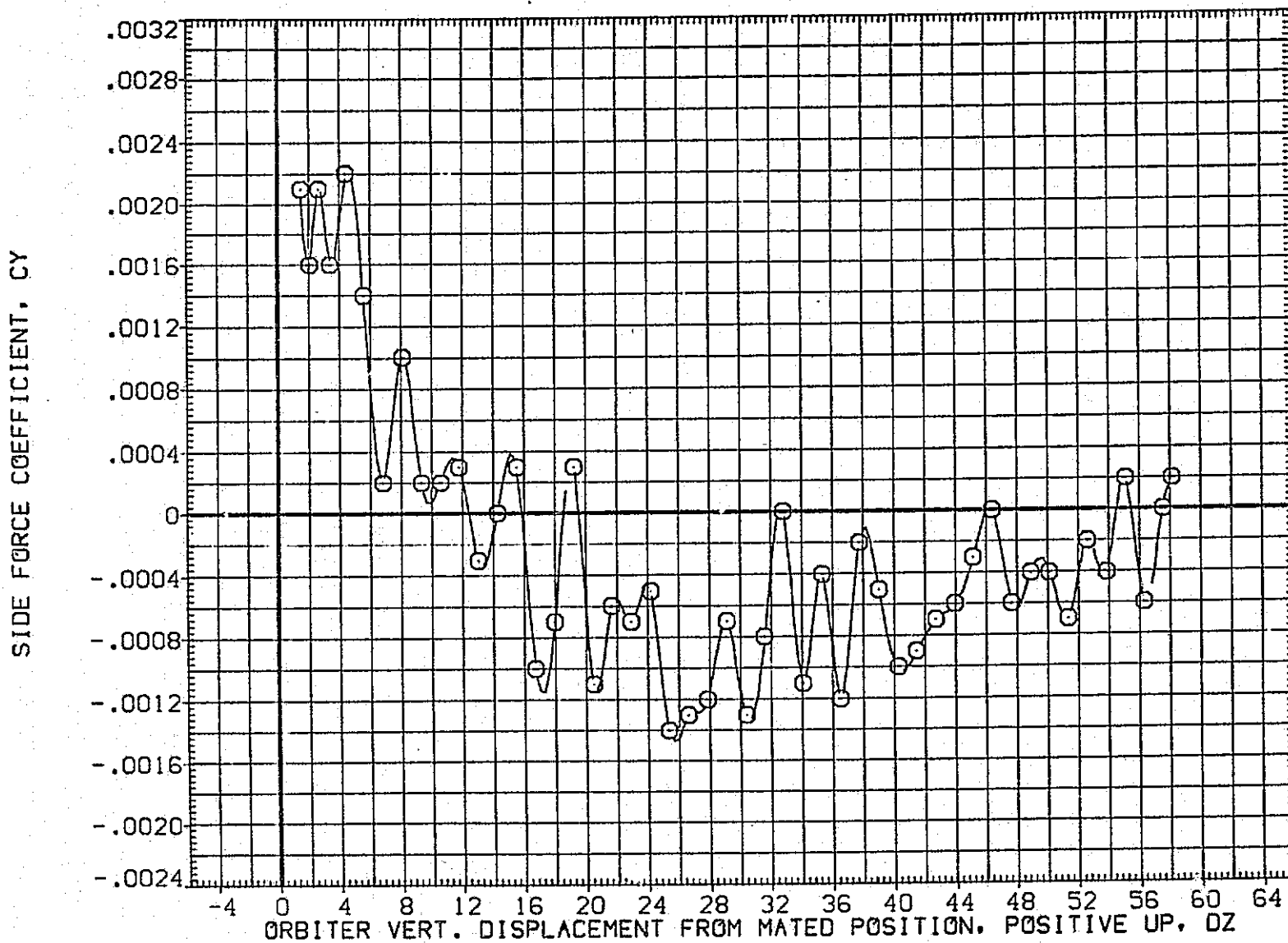


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE111)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	OX	.000
		DY	.000	IORB	8.000
		BETAD	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

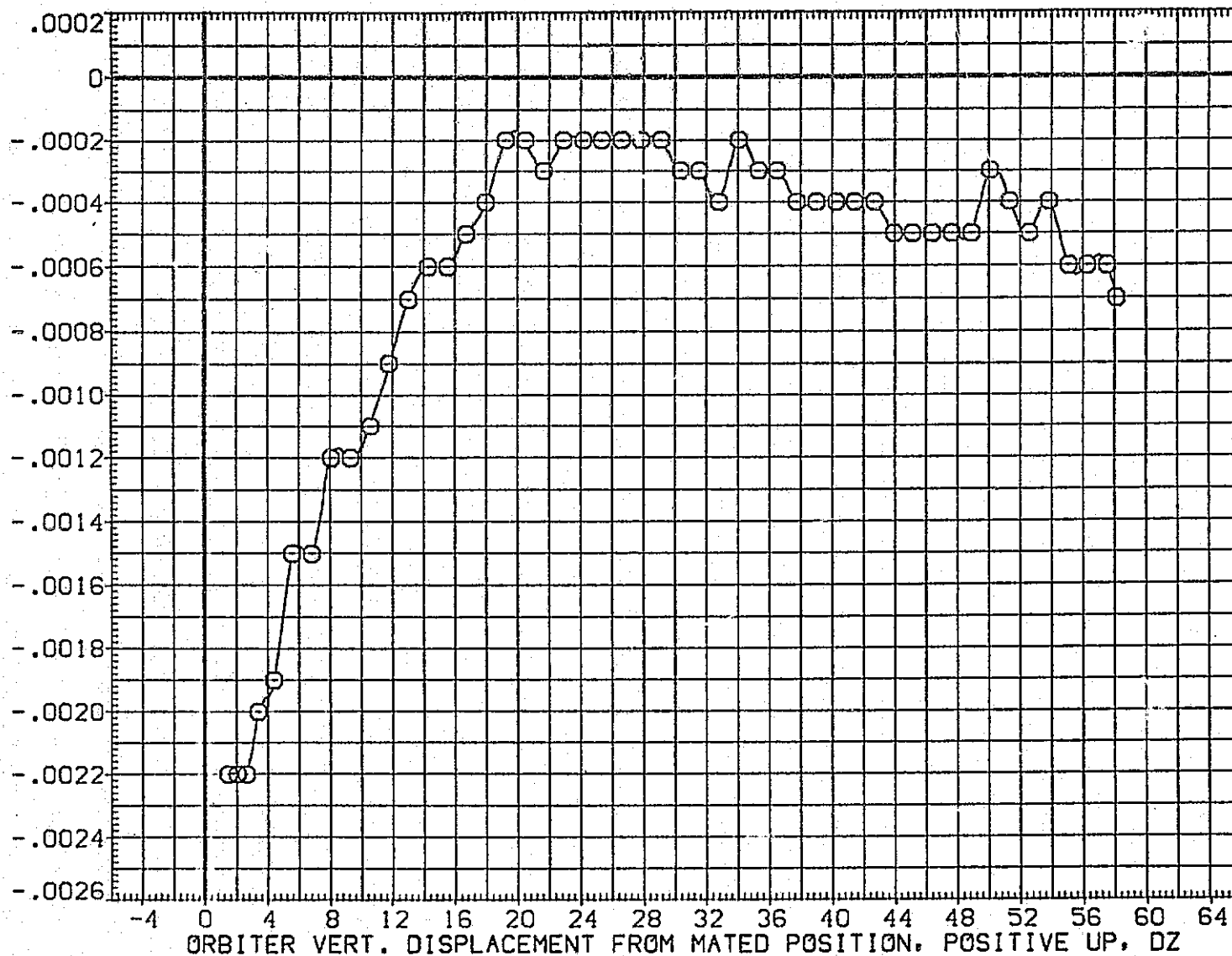


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AIRCON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

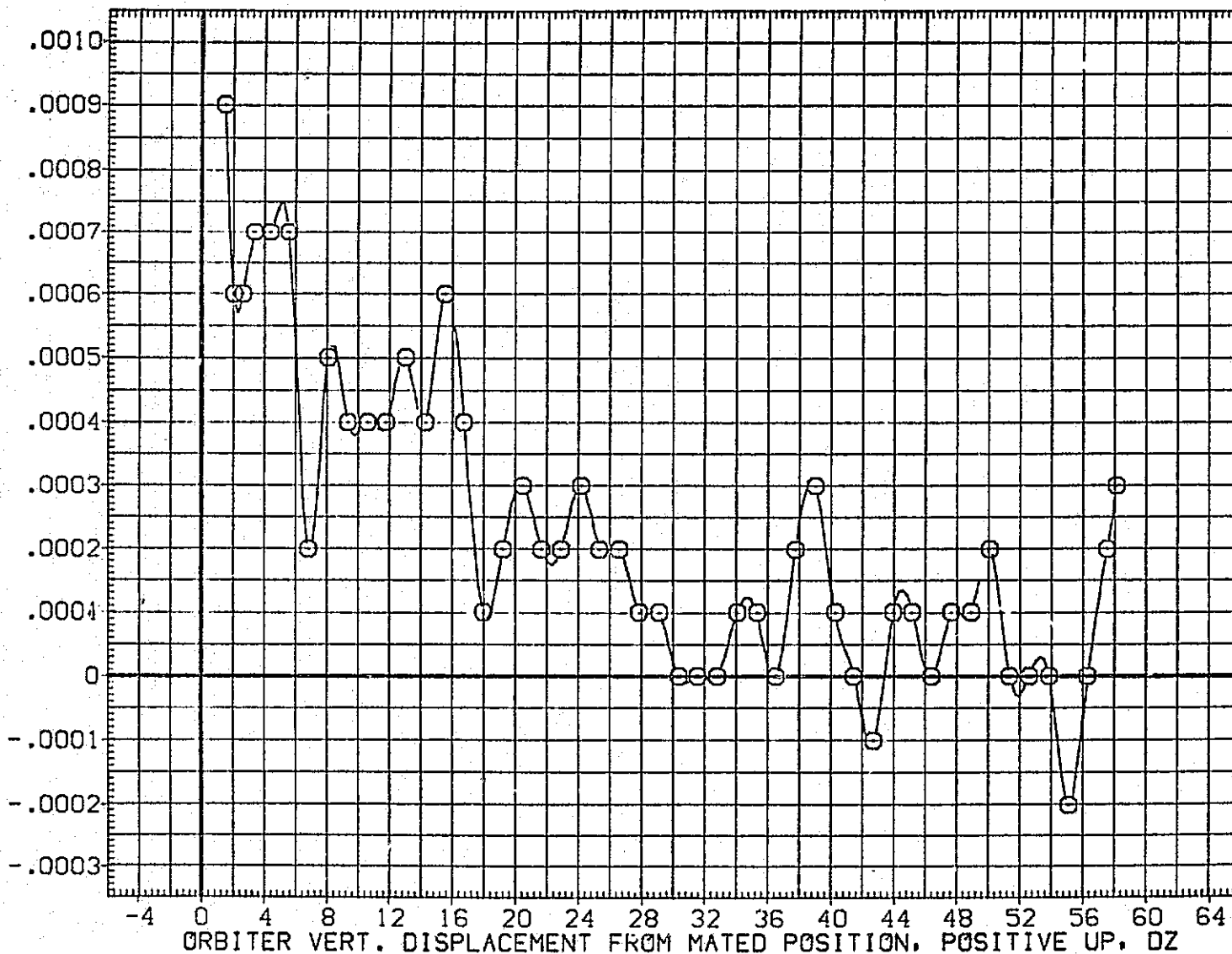


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE111)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AILRON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

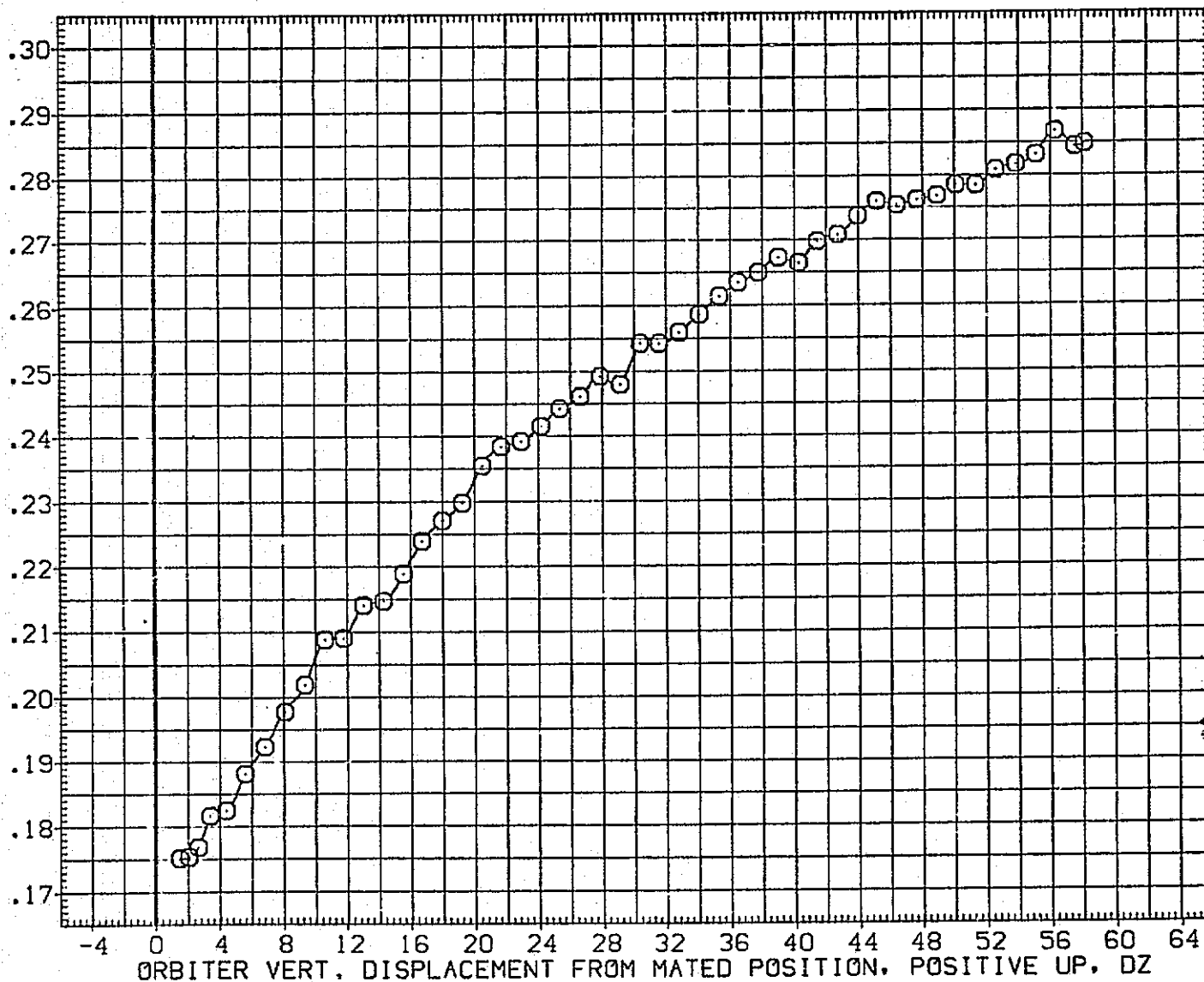


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	.000
		AIRLON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.8000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

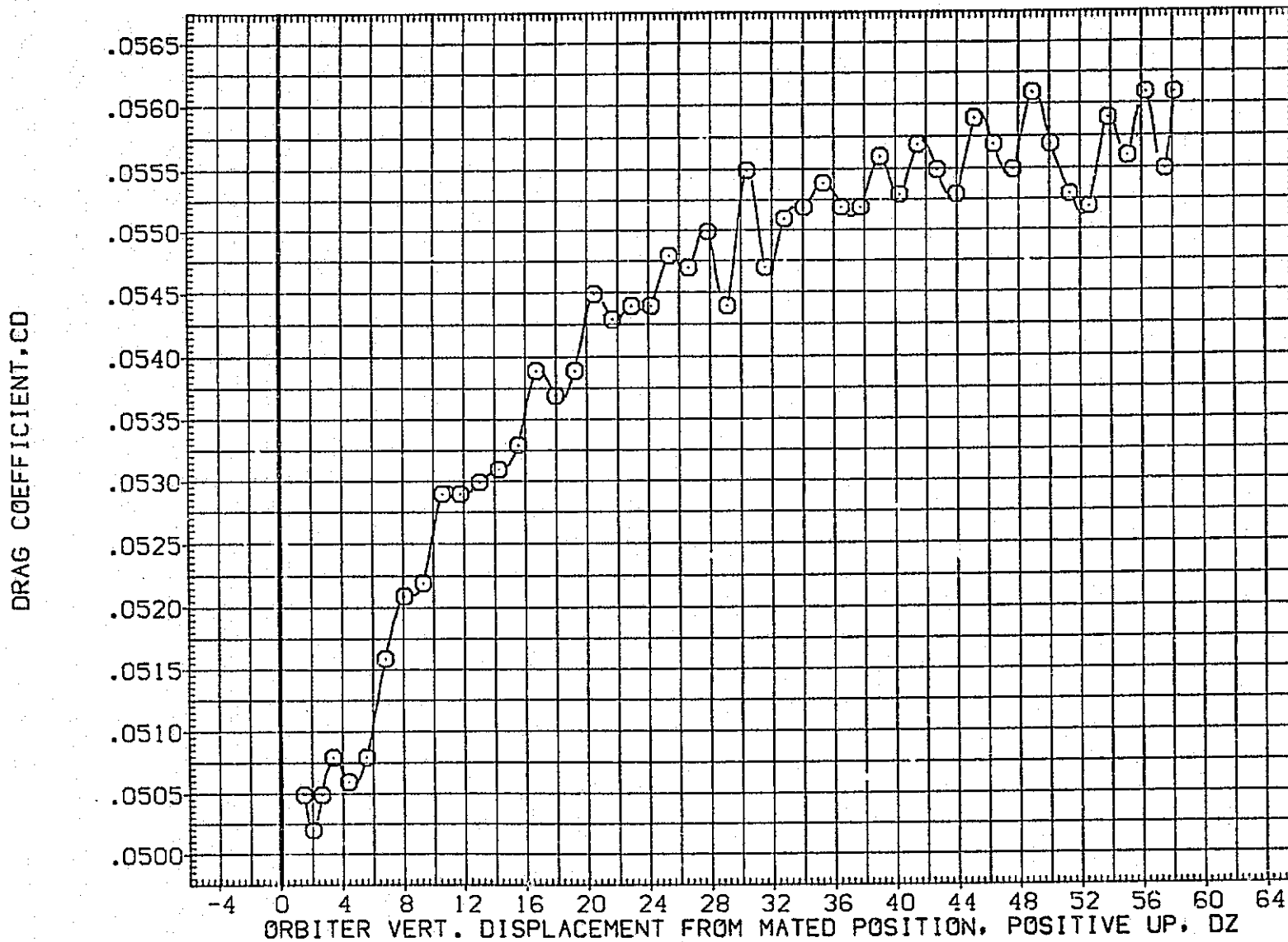


FIG.215 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=8, BETAC=0, BETA0=0, RFE111

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE112)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DY	SREF	SO.FT.	
○	.601	2.000	.000	.000	.000	5500.0000	IN.	
		5.000	.000	.000	.000	327.7800	IN.	
		.000	.000	.000	.000	2348.0400	IN.	
		.000	6.000	.000	.000	1339.9000	IN. XC	
		.000	.000	.000	.000	.0000	IN. YC	
		.000	.000	.000	.000	190.7500	IN. ZC	
						SCALE	.0125	

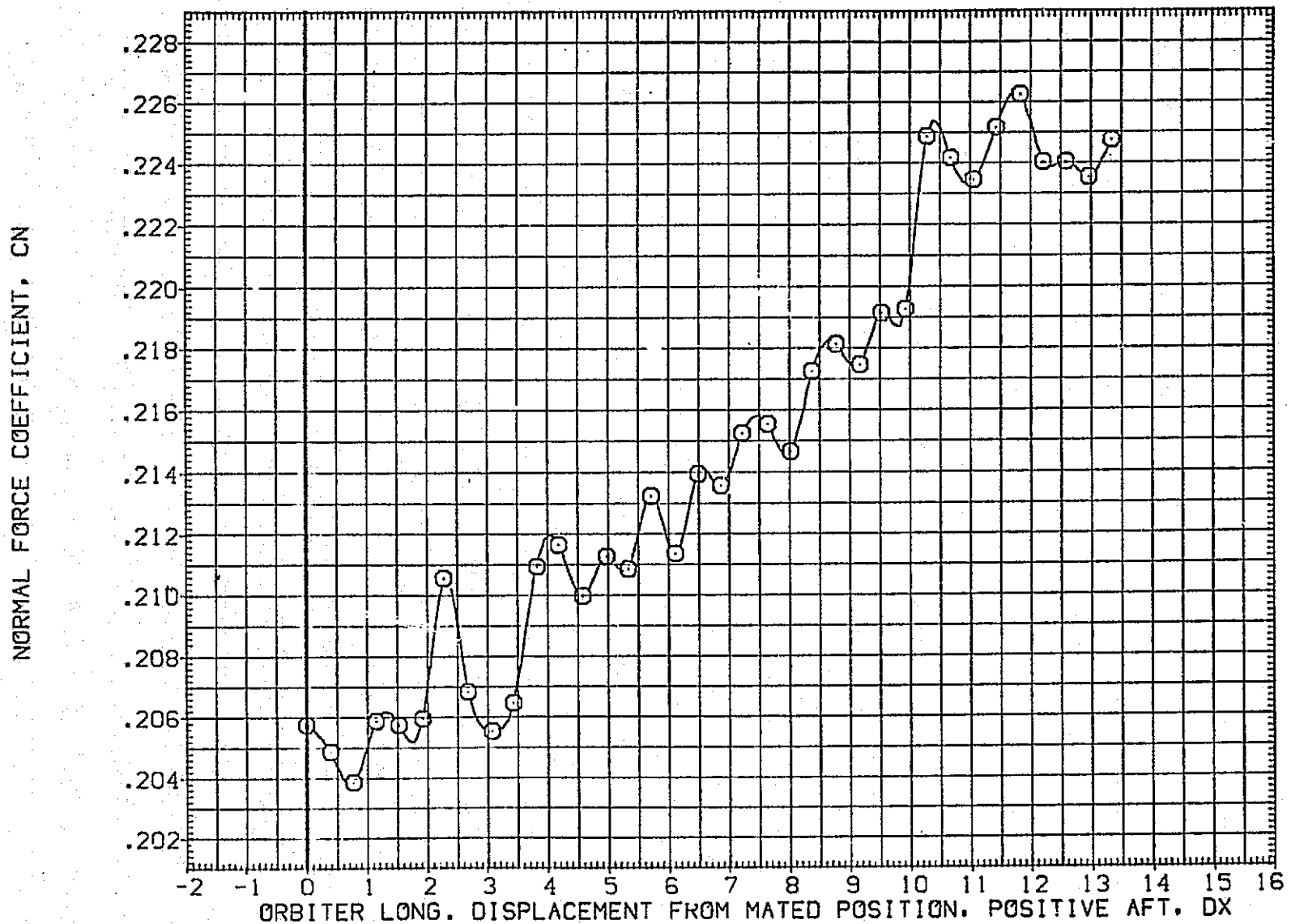


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

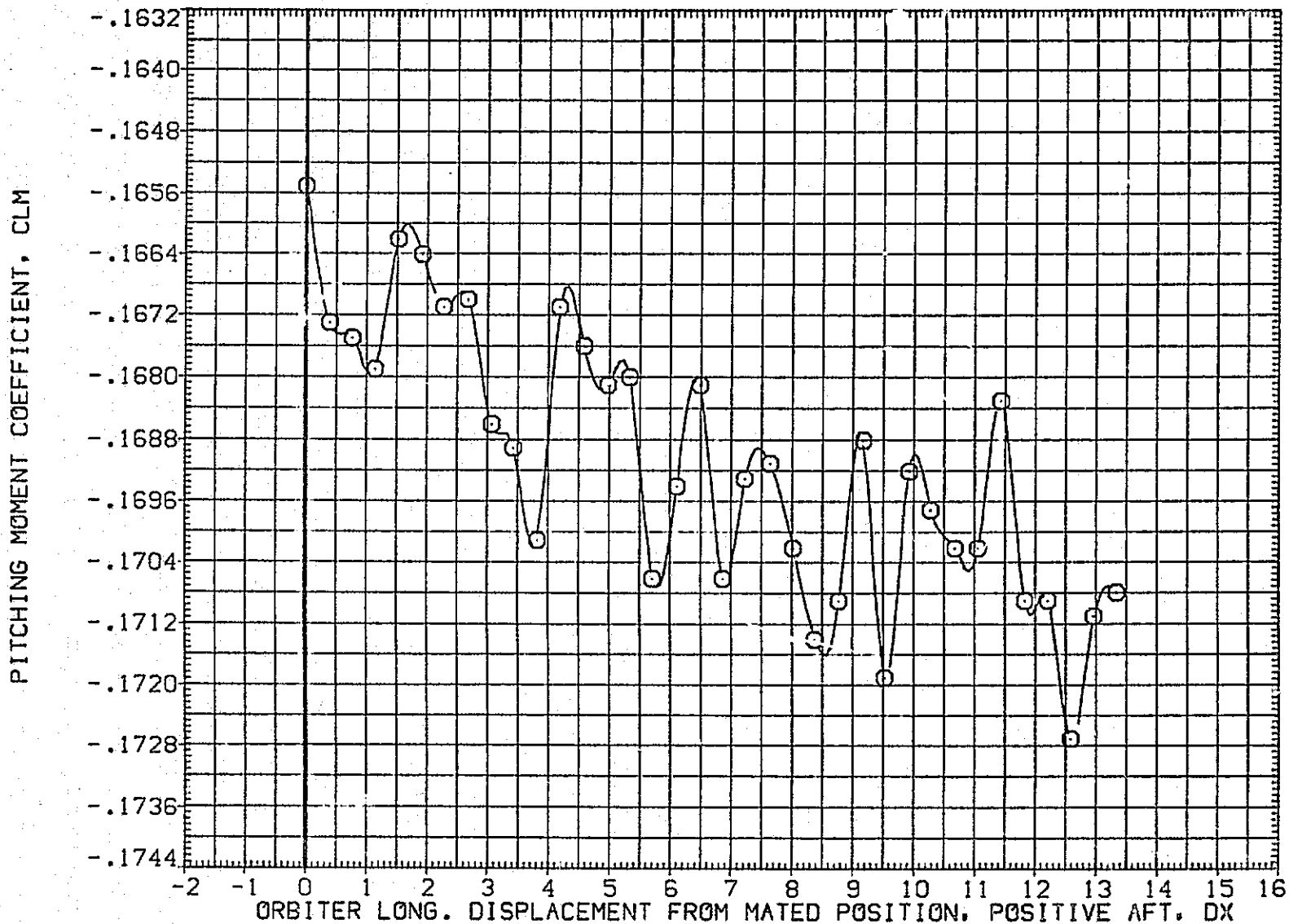


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE112)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

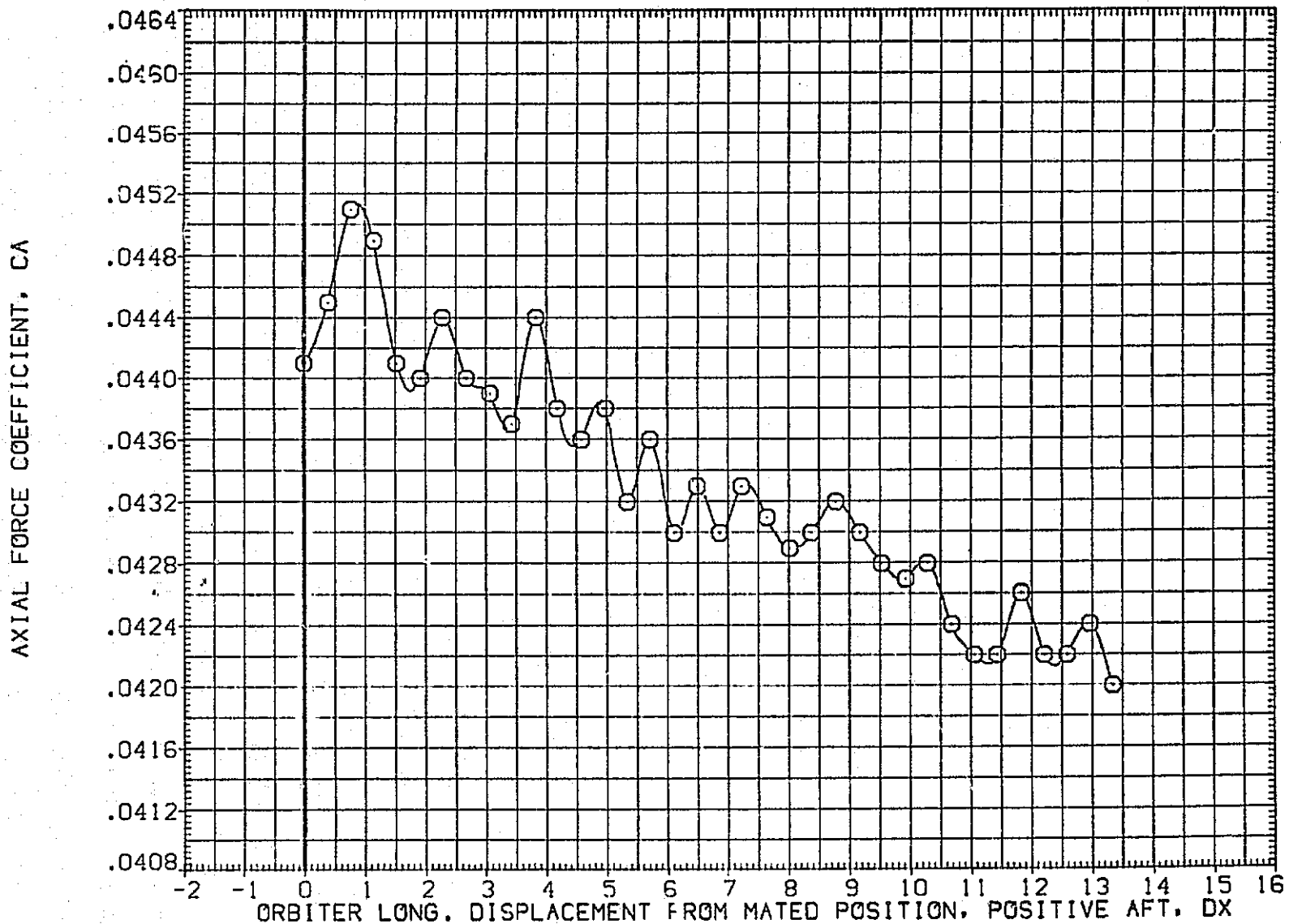


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	±0. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

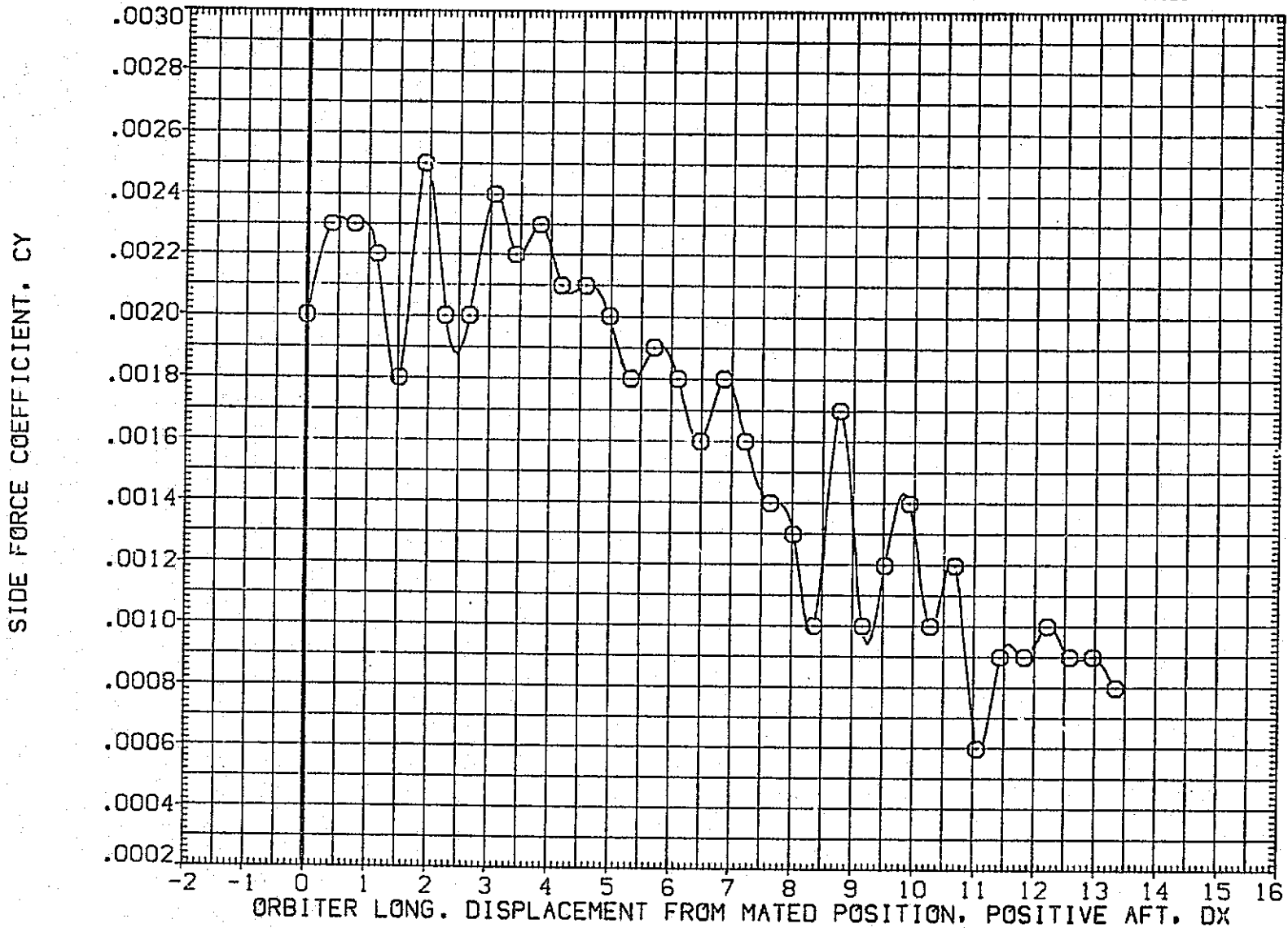


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE112)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.601	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

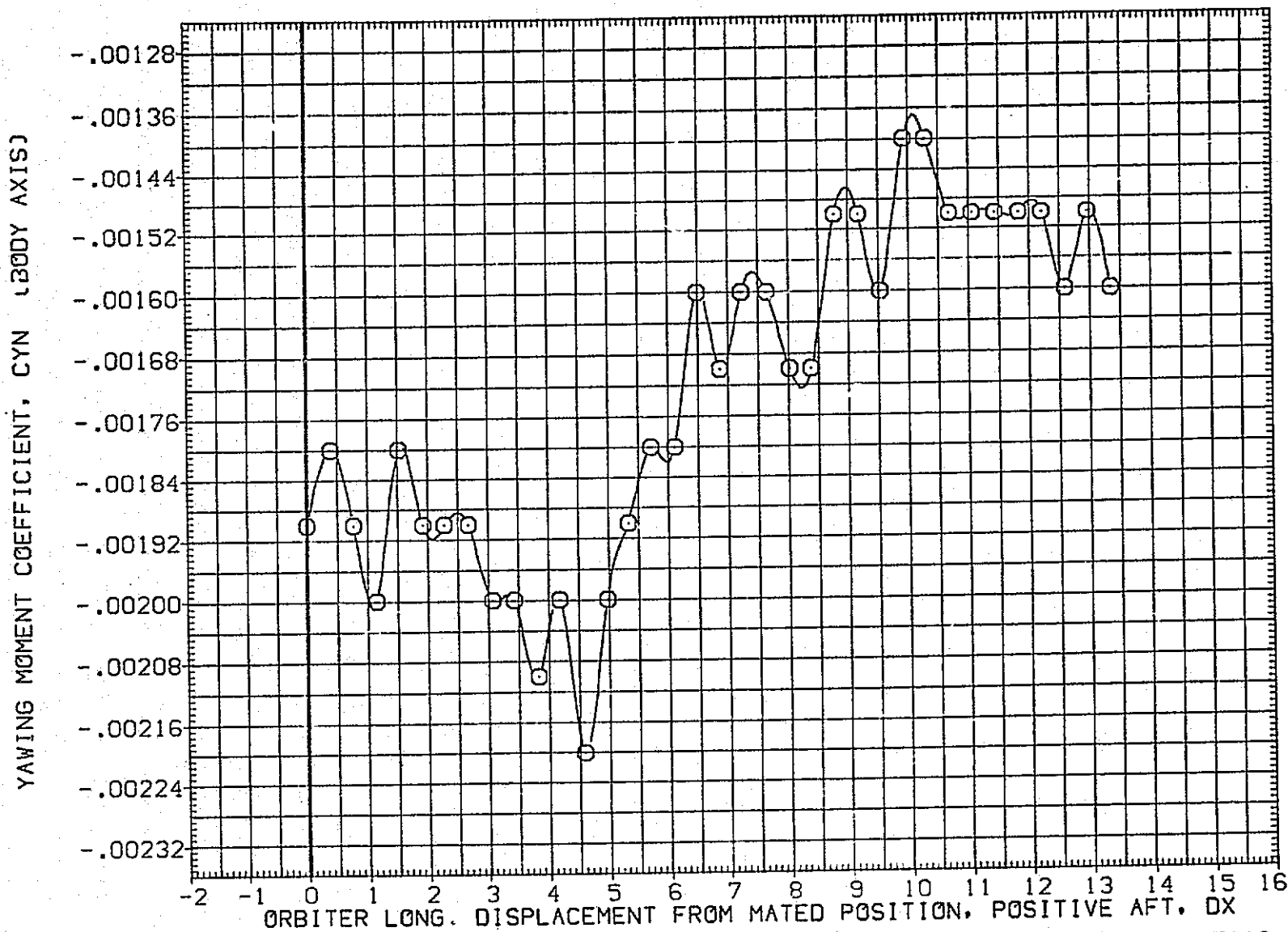


FIG.216 CARRIER DATA, GRB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.601	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DY	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

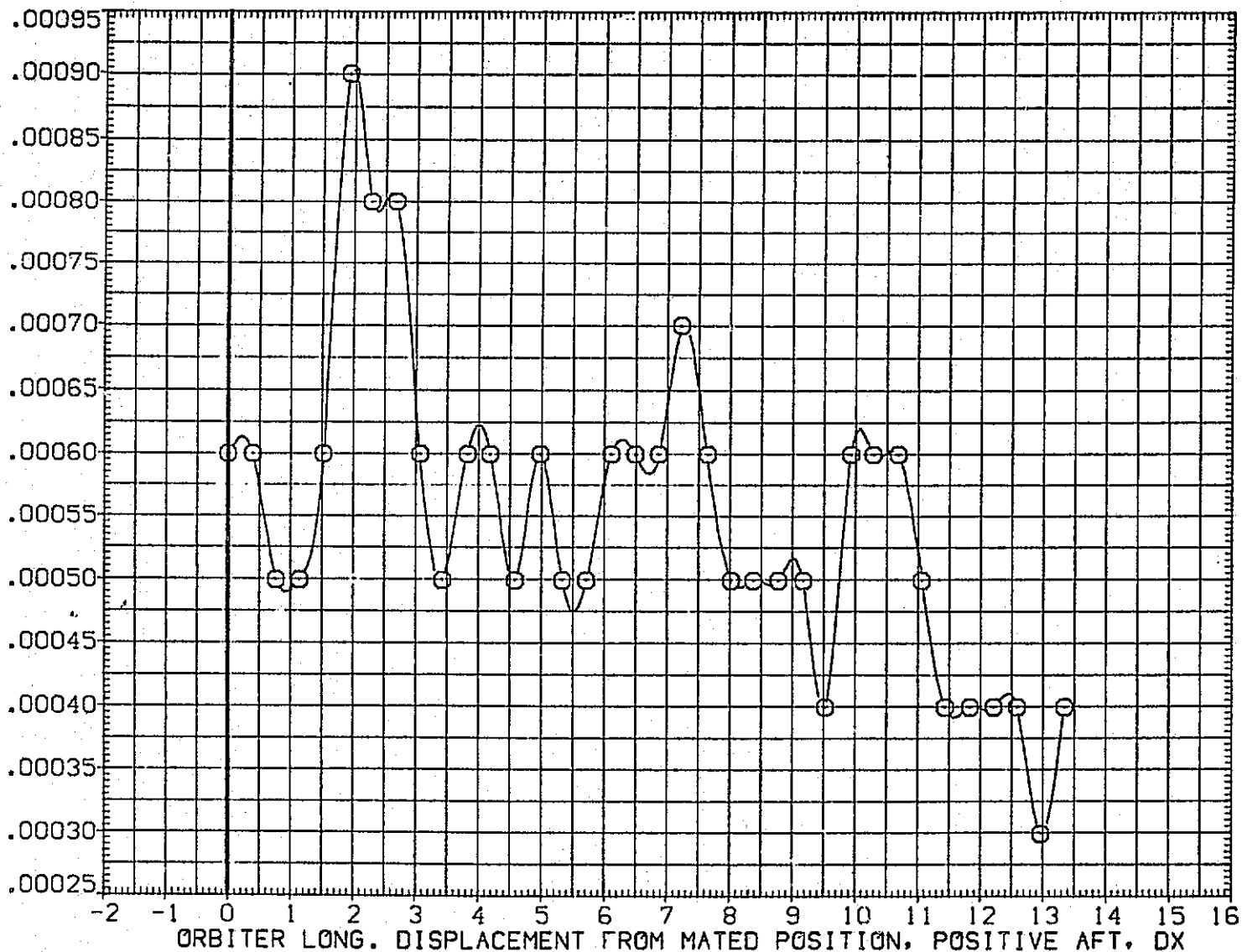


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE112)

SYMBOL

○

MACH

.601

ALPHAC
STAB
ELEVON
DZ
BETA0

PARAMETRIC VALUES

2.000 BETAC .000
5.000 RUDDER .000
.000 DY .000
.000 IORB 6.000
.000 DPHI .000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

LIFT COEFFICIENT, CL

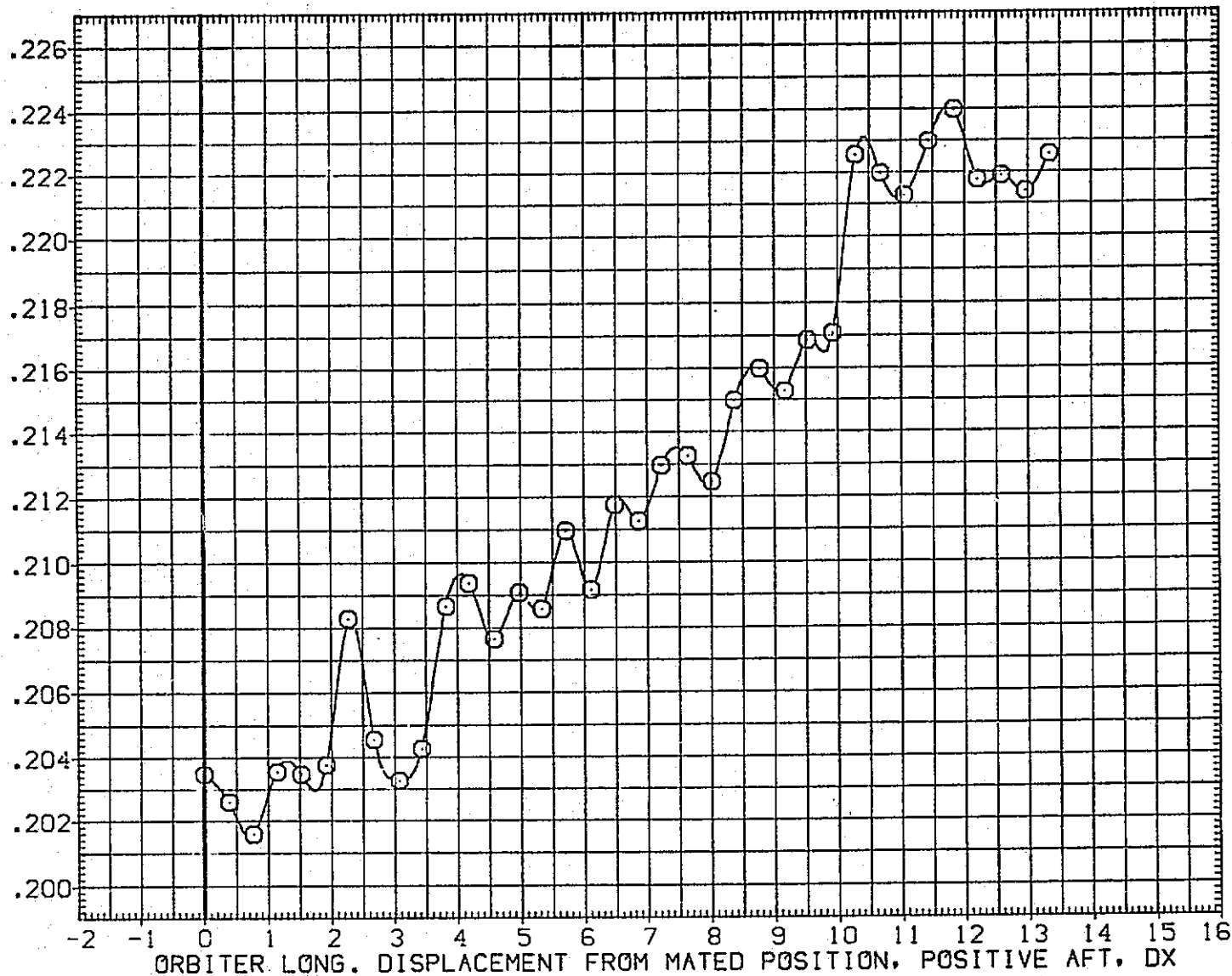


FIG. 216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

SYMBOL

MACH

PARAMETRIC VALUES

REFERENCE INFORMATION

○

.601

ALPHAC

2.000

BETAC

.000

SREF

5500.0000

SQ.FT.

STAB

5.000

RUDDER

.000

LREF

327.7800

IN.

ELEVON

.000

DY

.000

BREF

2348.0400

IN.

DZ

.000

IORB

6.000

XMRP

1339.9000

IN. XC

BETA0

.000

DPHI

.000

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

DRAG COEFFICIENT, CD

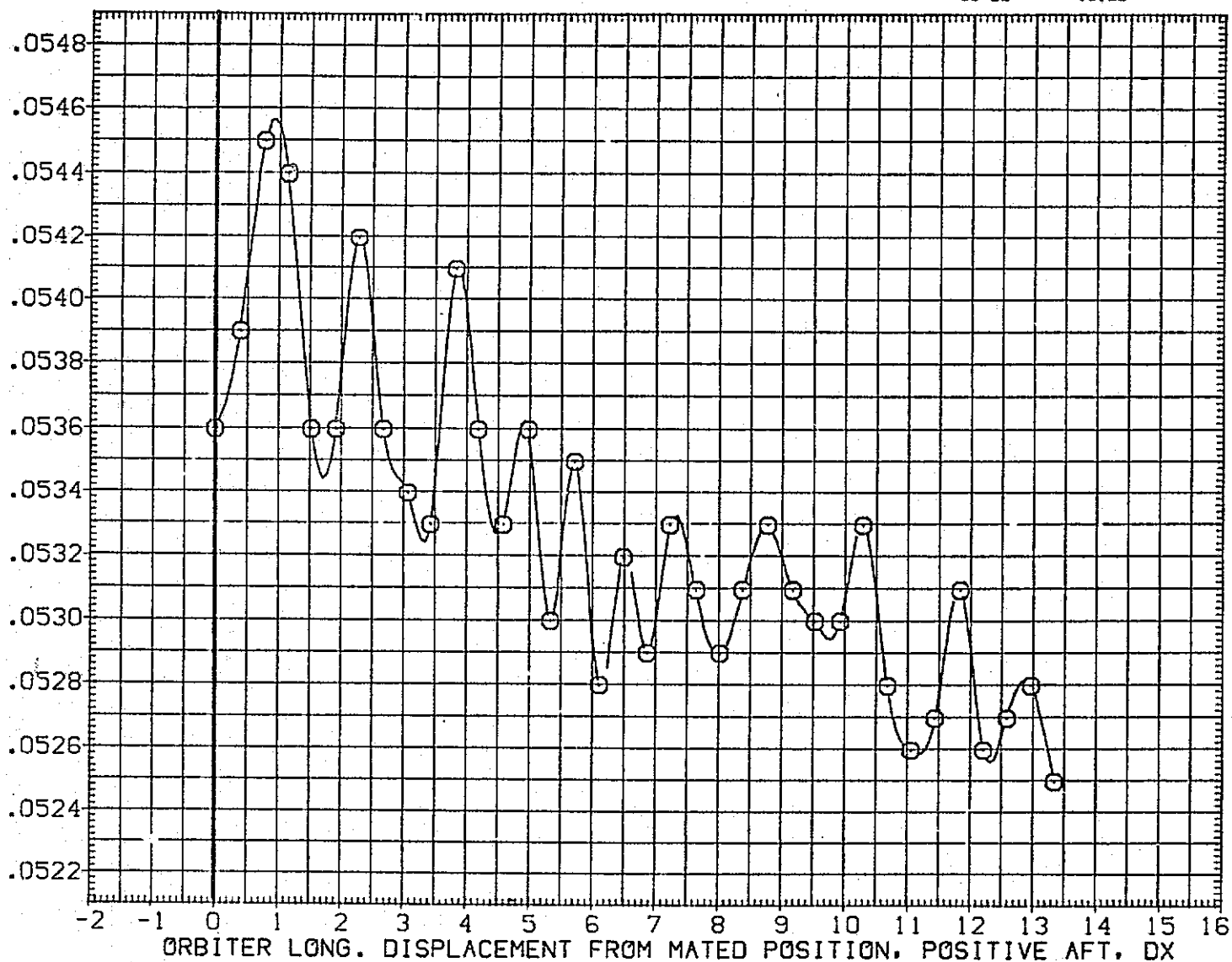


FIG.216 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE112

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE113)

SYMBOL

○

MACH	PARAMETRIC VALUES			
.600	ALPHAC	2.000	BETAC	.000
	STAB	5.000	RUDDER	.000
	ELEVON	.000	DY	.000
	DZ	15.000	IORB	6.000
	BETAD	.000	OPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.012	

NORMAL FORCE COEFFICIENT, CN

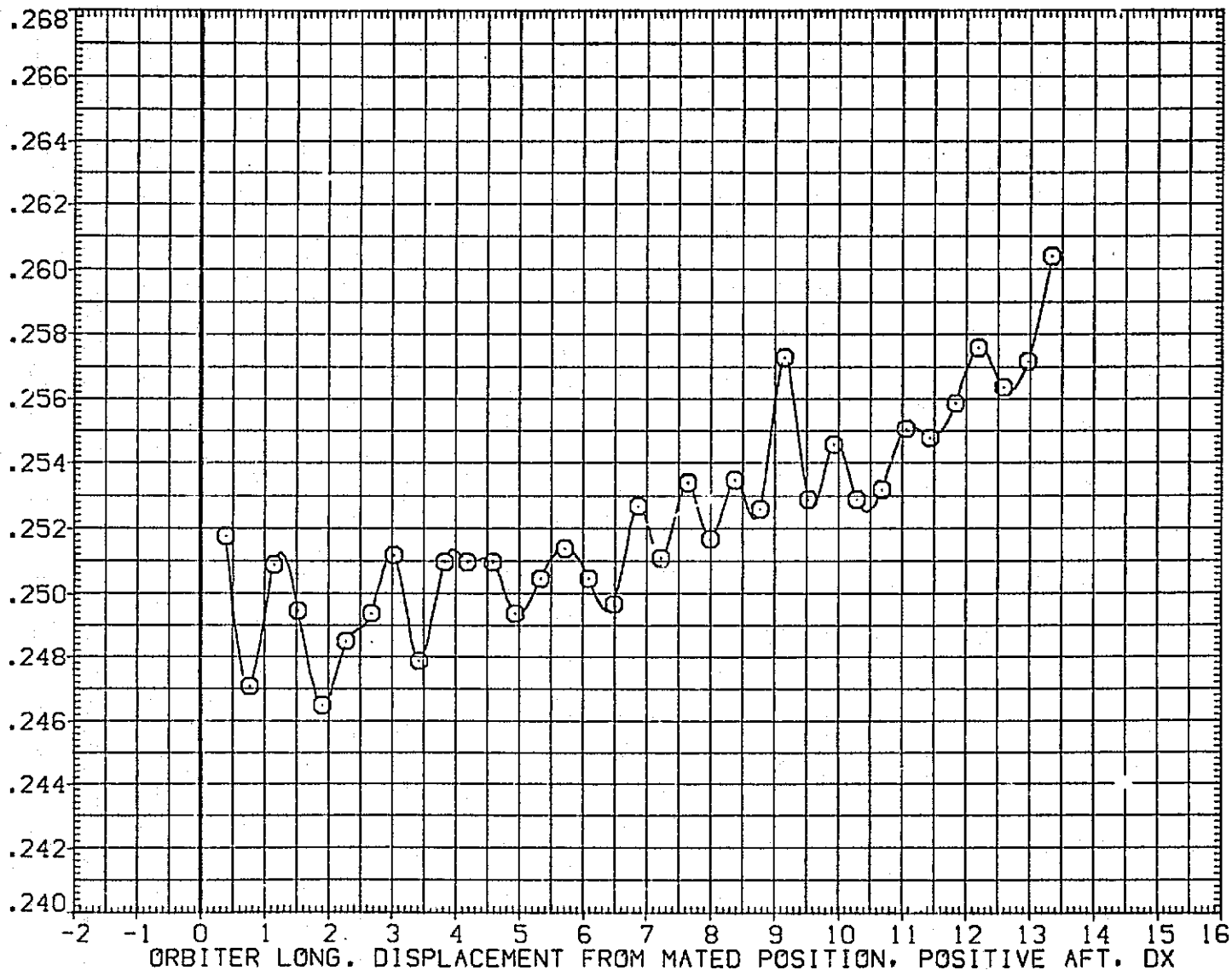


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

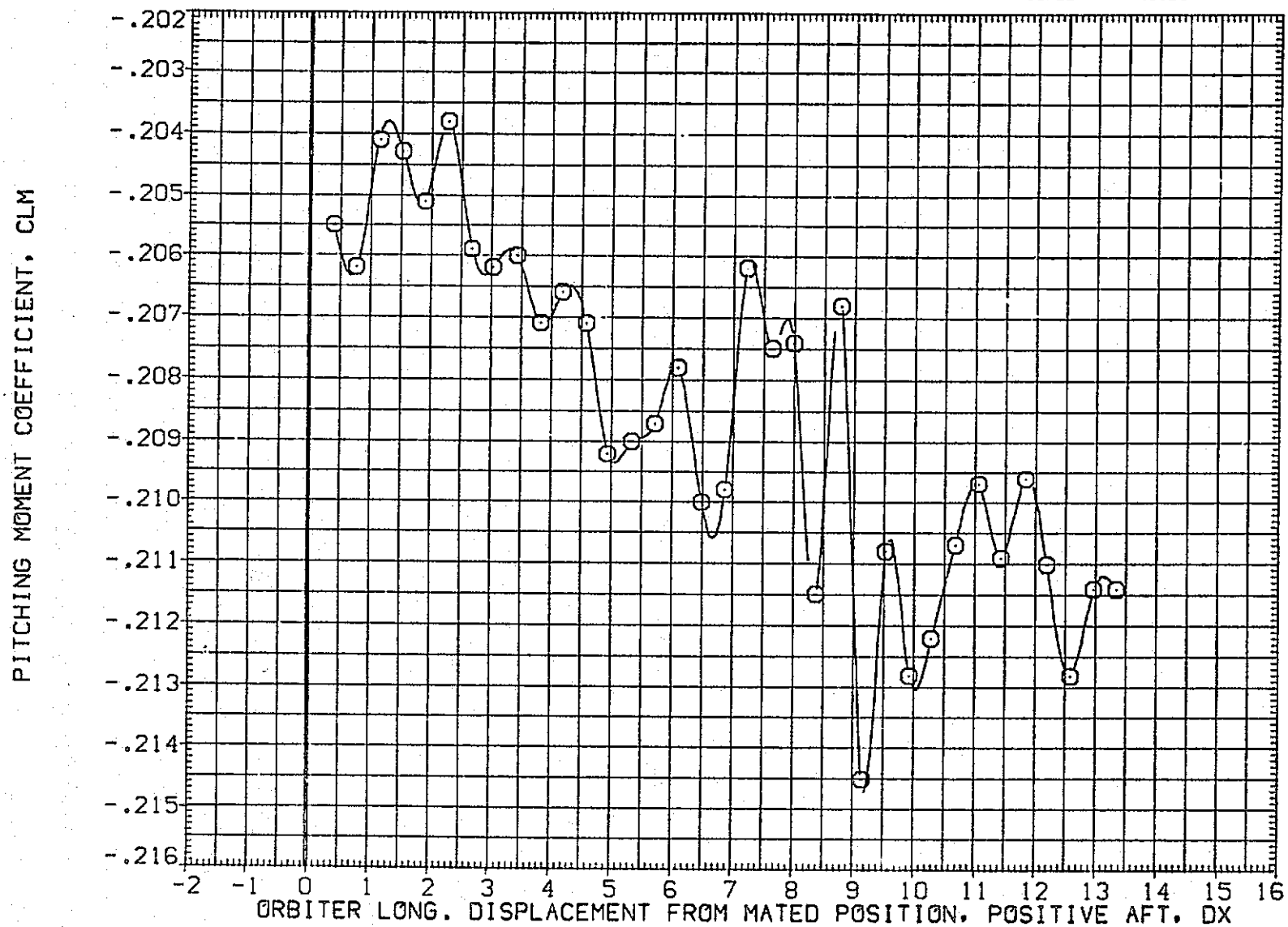


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE113)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

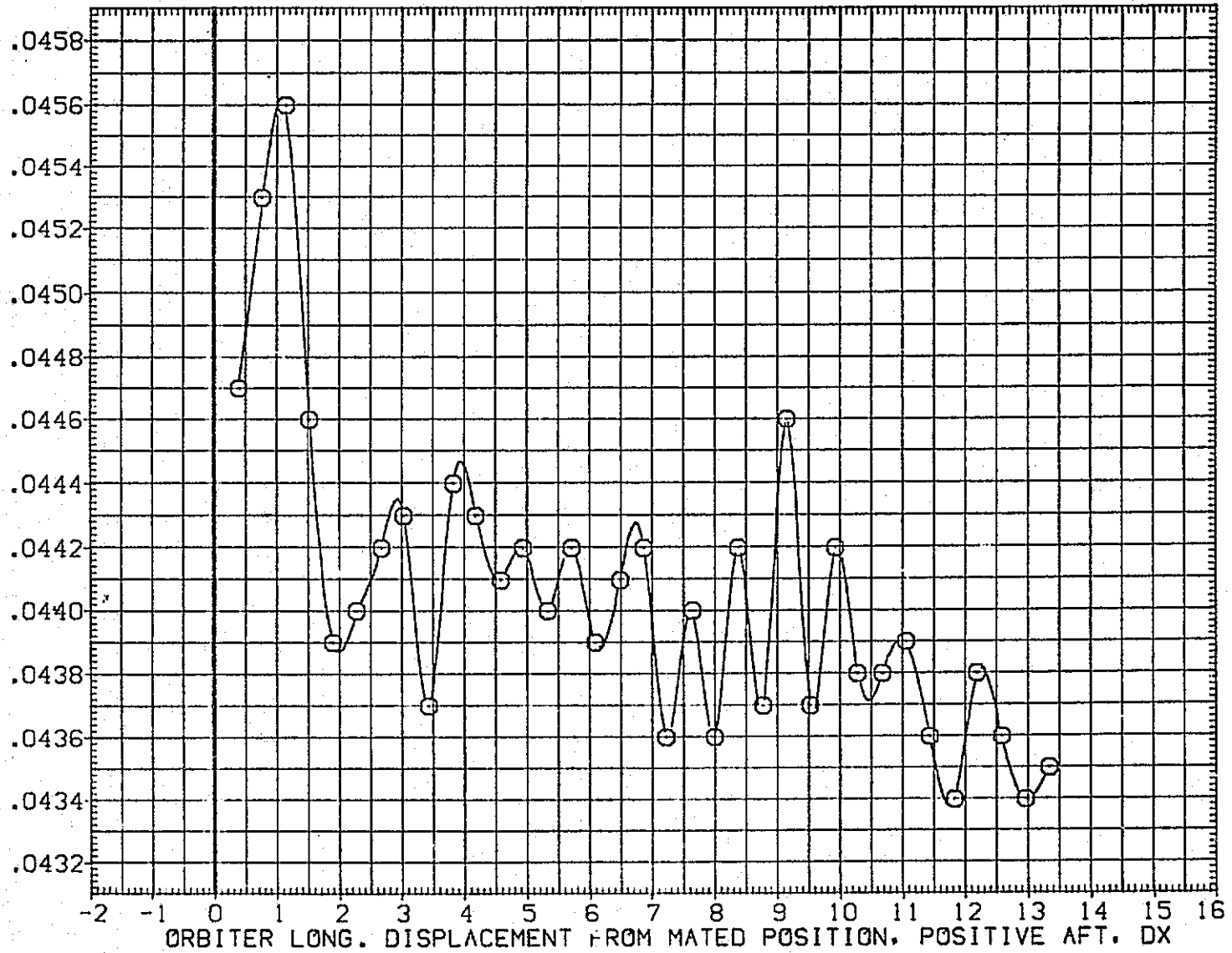


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

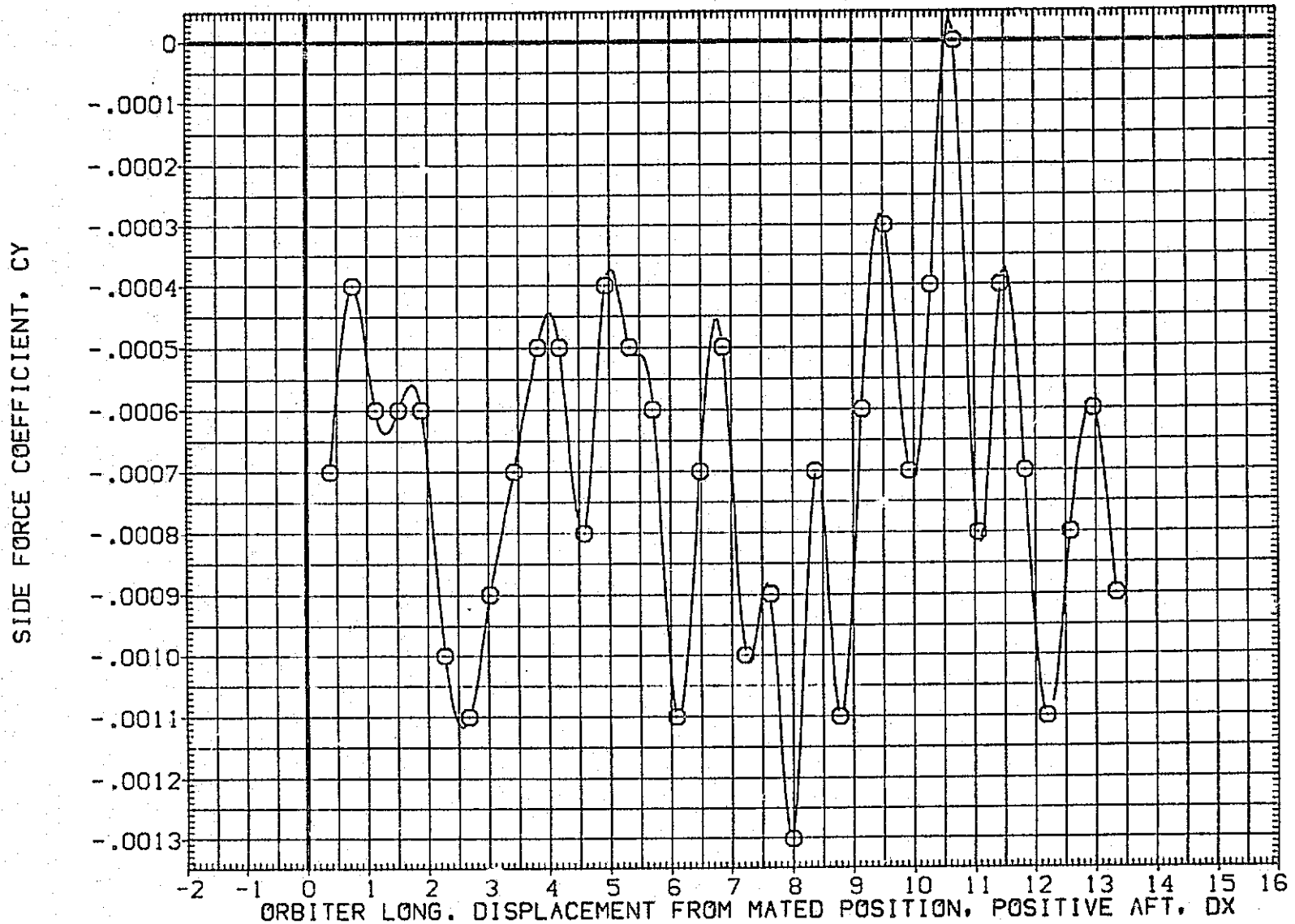


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE113)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETAO	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

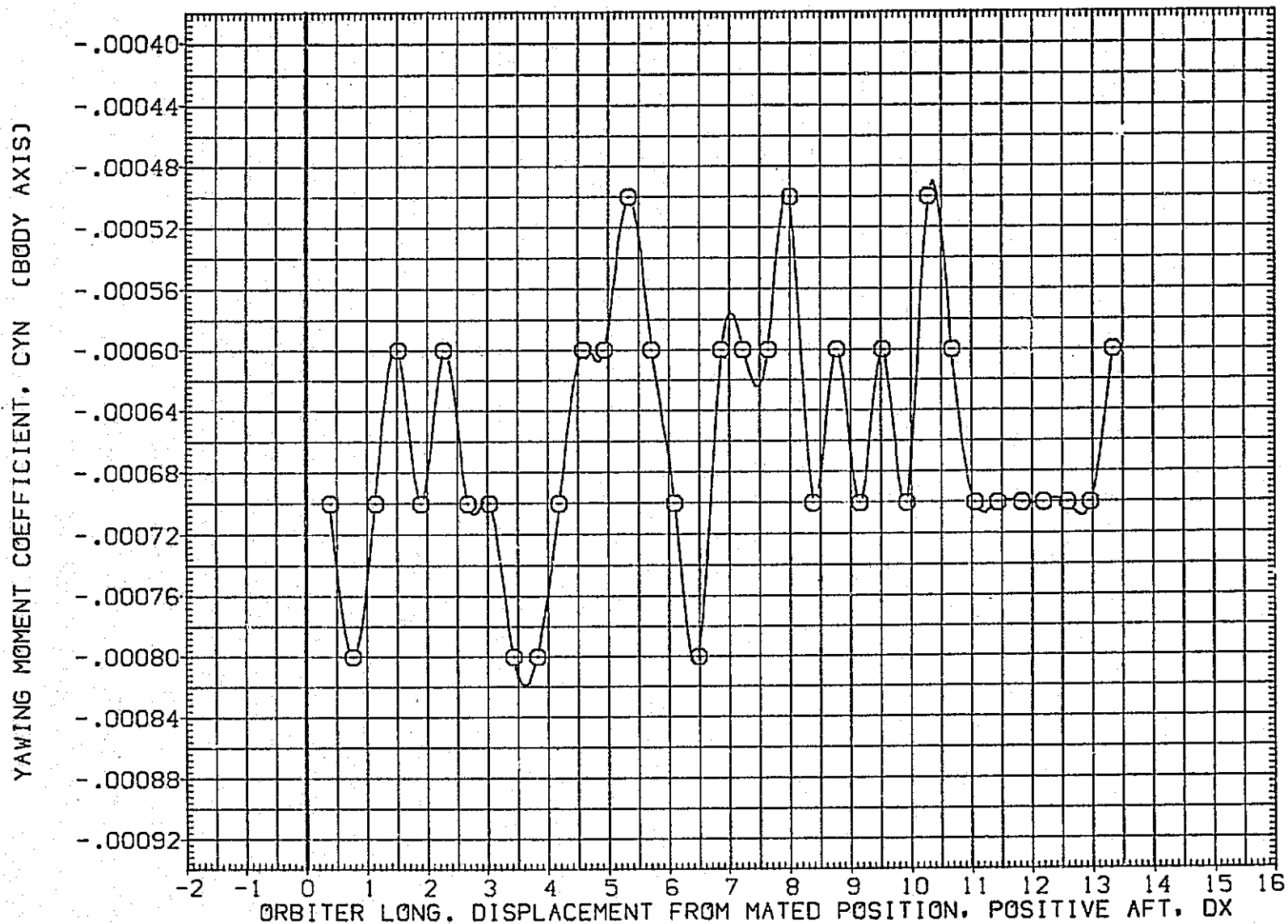


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XM RP	1339.9000	IN. XC
YM RP	.0000	IN. YC
ZM RP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

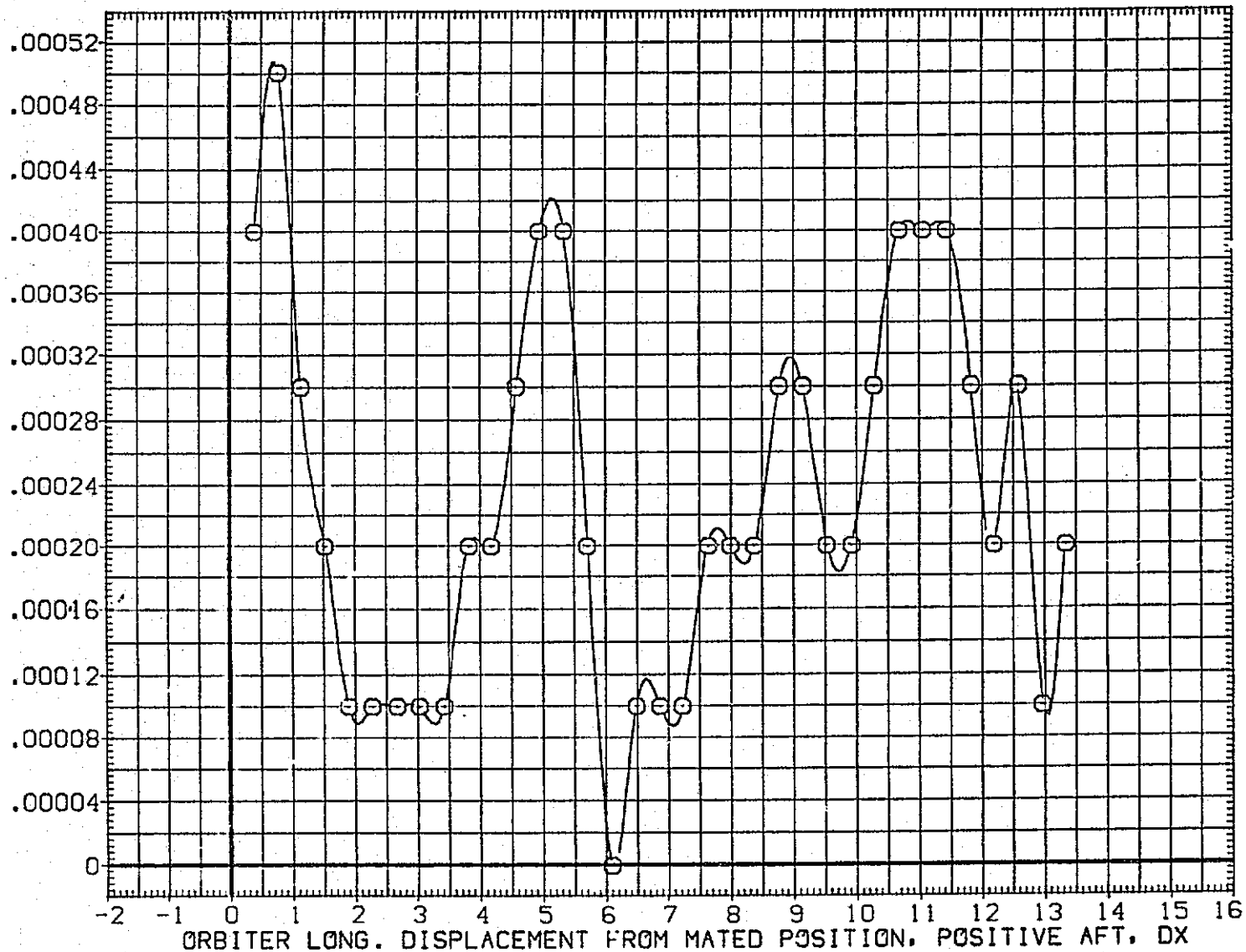


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE113)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

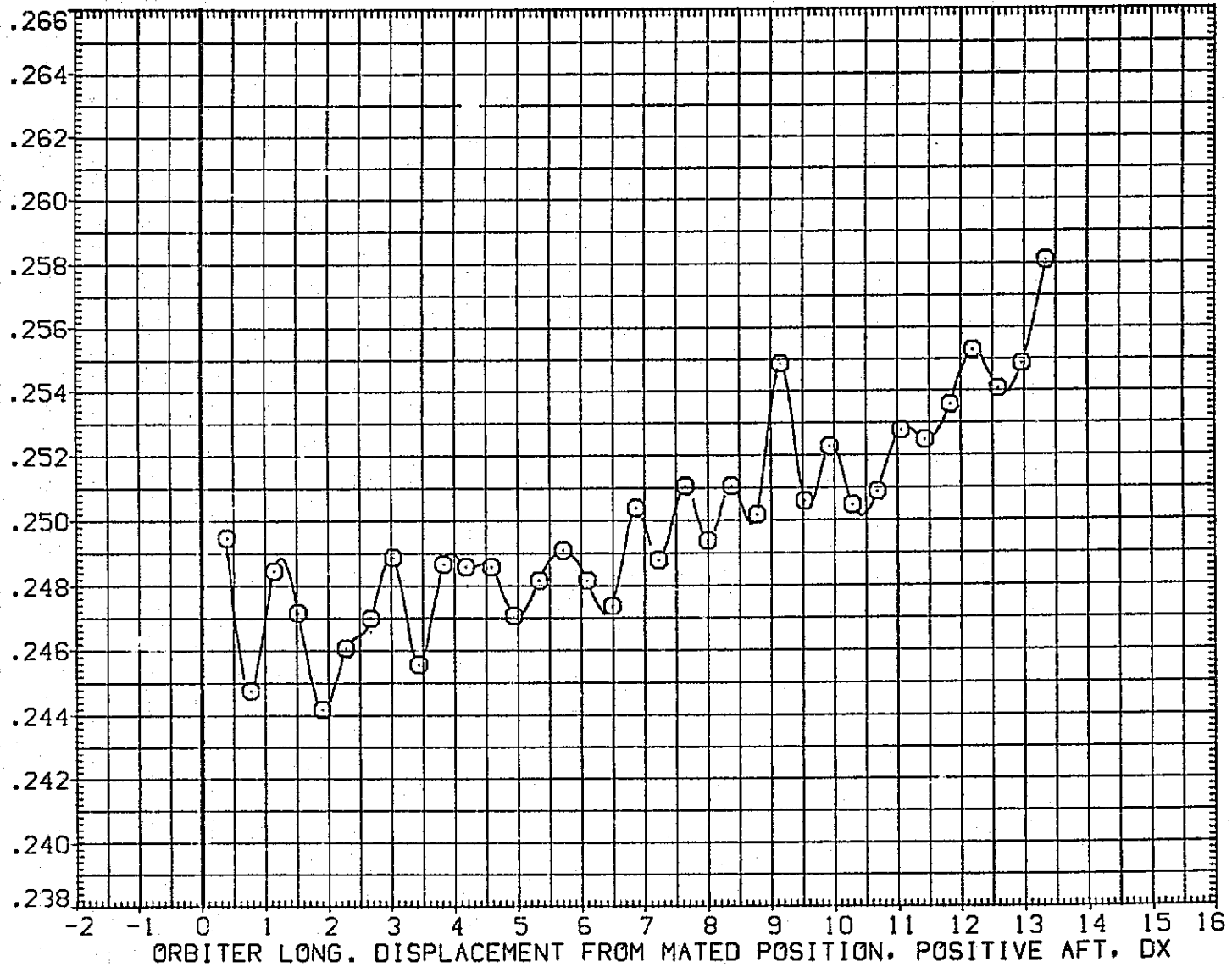


FIG.217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5600.0000	SQ. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

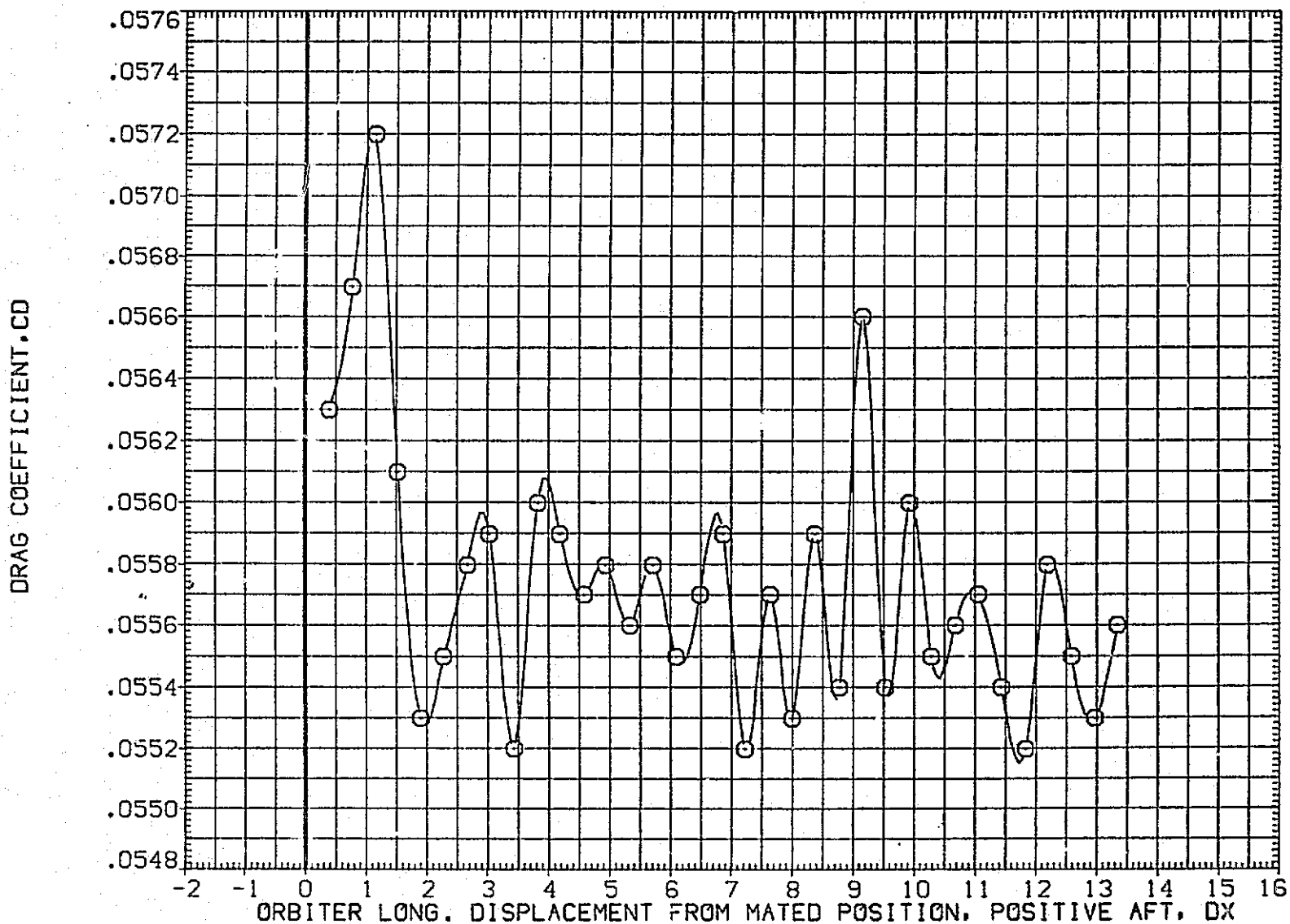


FIG. 217 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE113

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE114)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

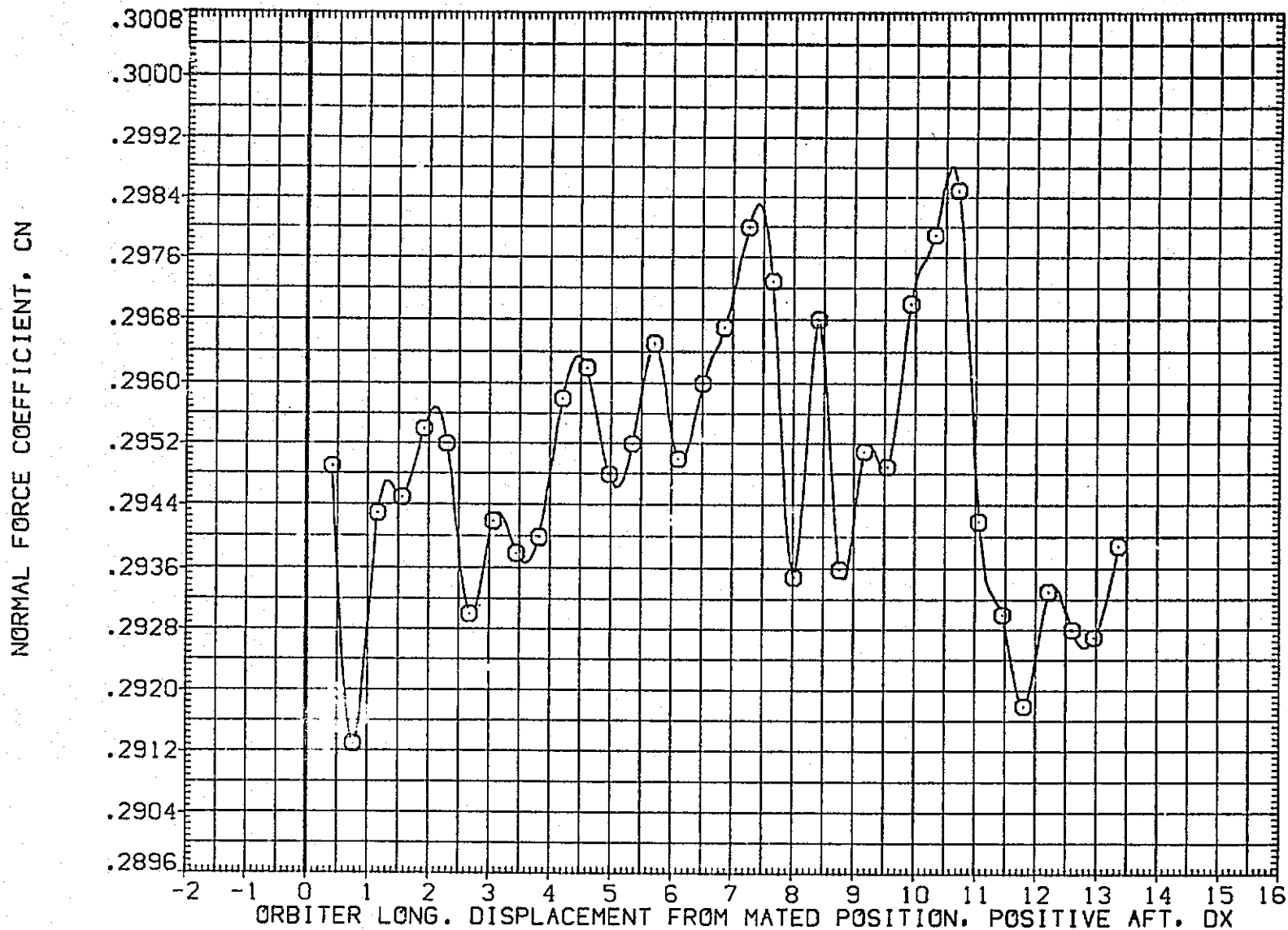


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

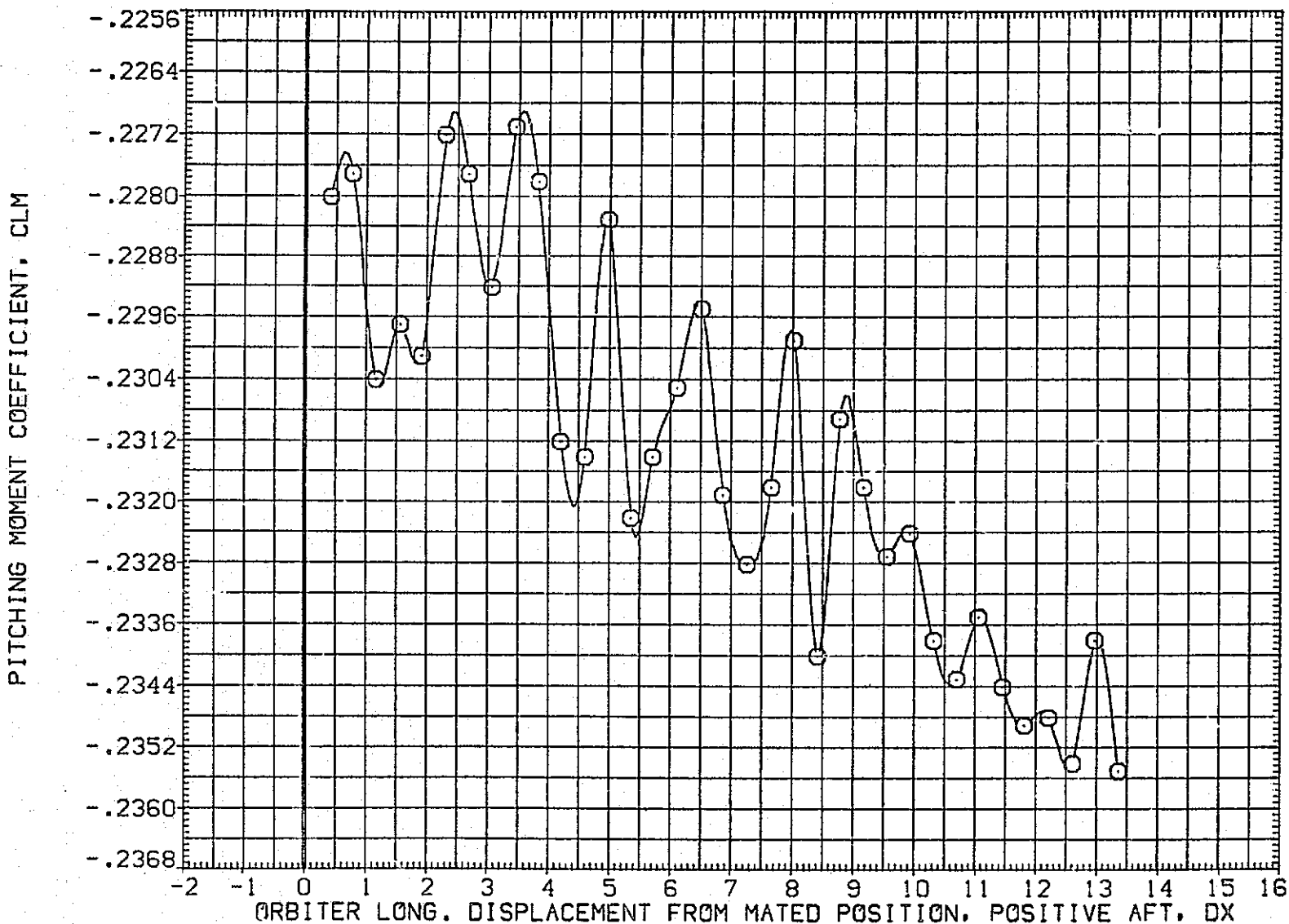


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

LTV44-559(CA29) 747/1 ATY 06 S1 (CARRIER DATA) (RFE114)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

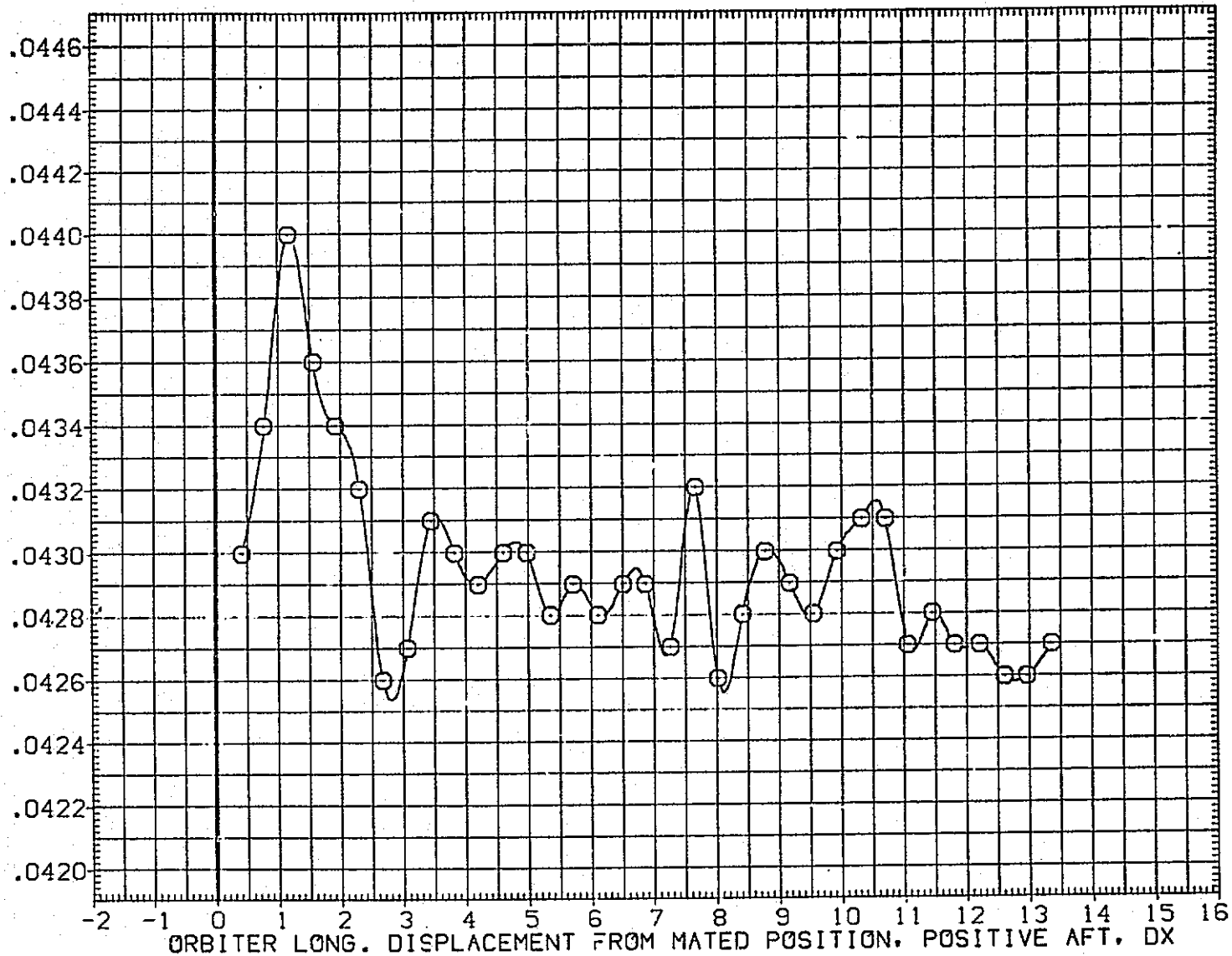


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

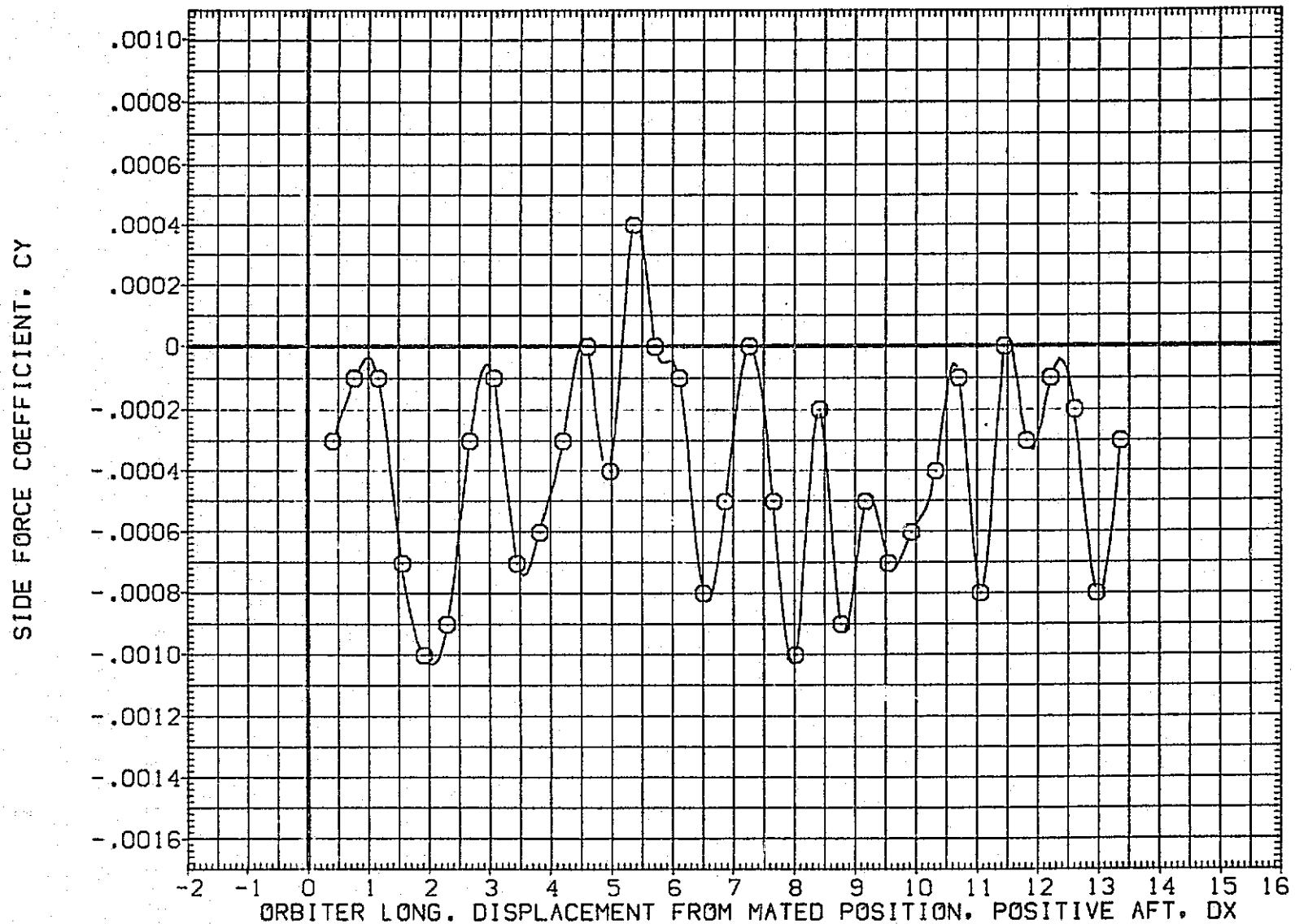


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE114)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

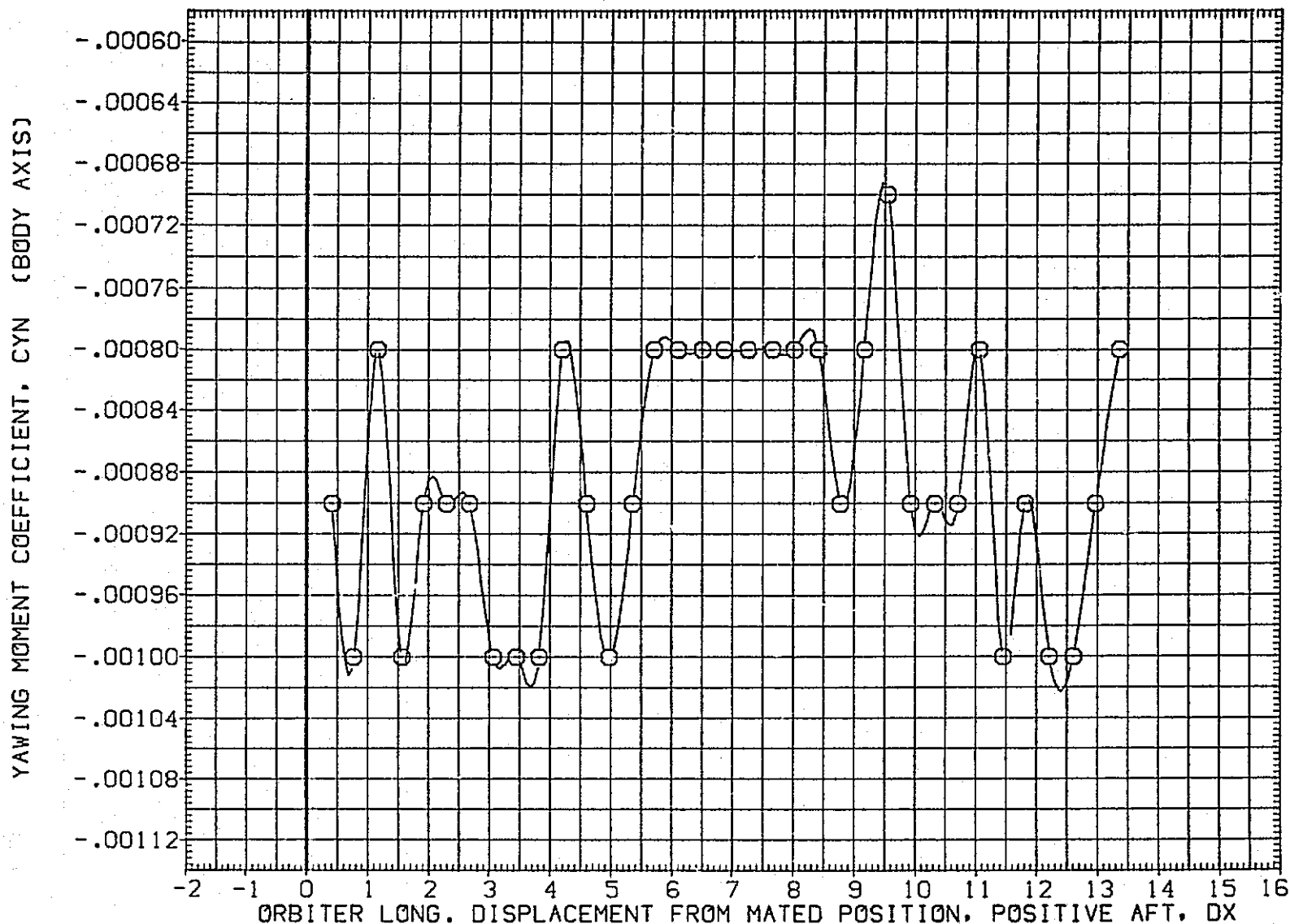


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DY	.000
		QZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7900	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

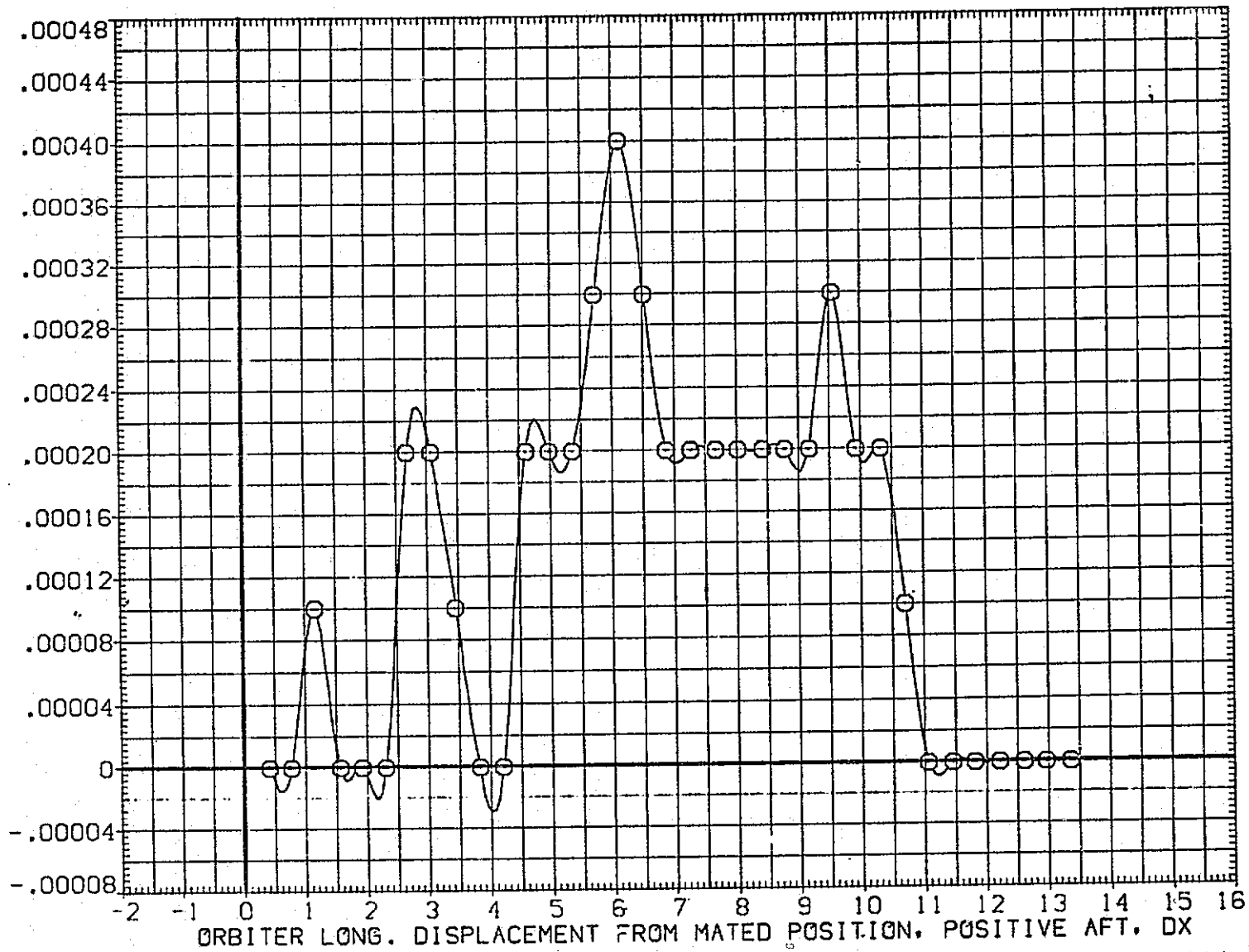


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE114)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SG.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DY	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETAO	.000	DPHI	.000	ZMRP	.0000	IN. YC
						SCALE	.0125	IN. ZC

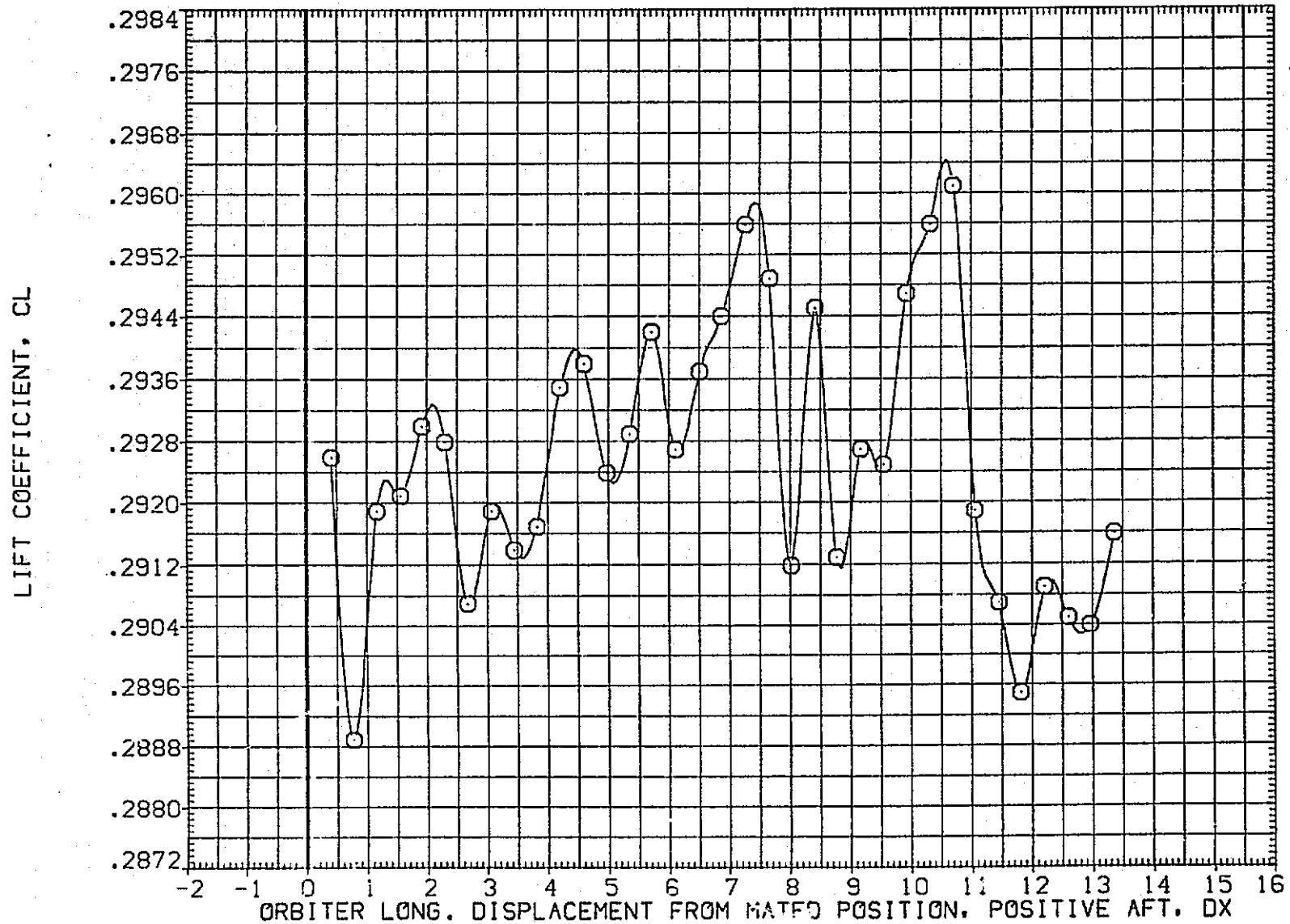


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE114)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.060
		ELEVON	.000	DY	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPH:	.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

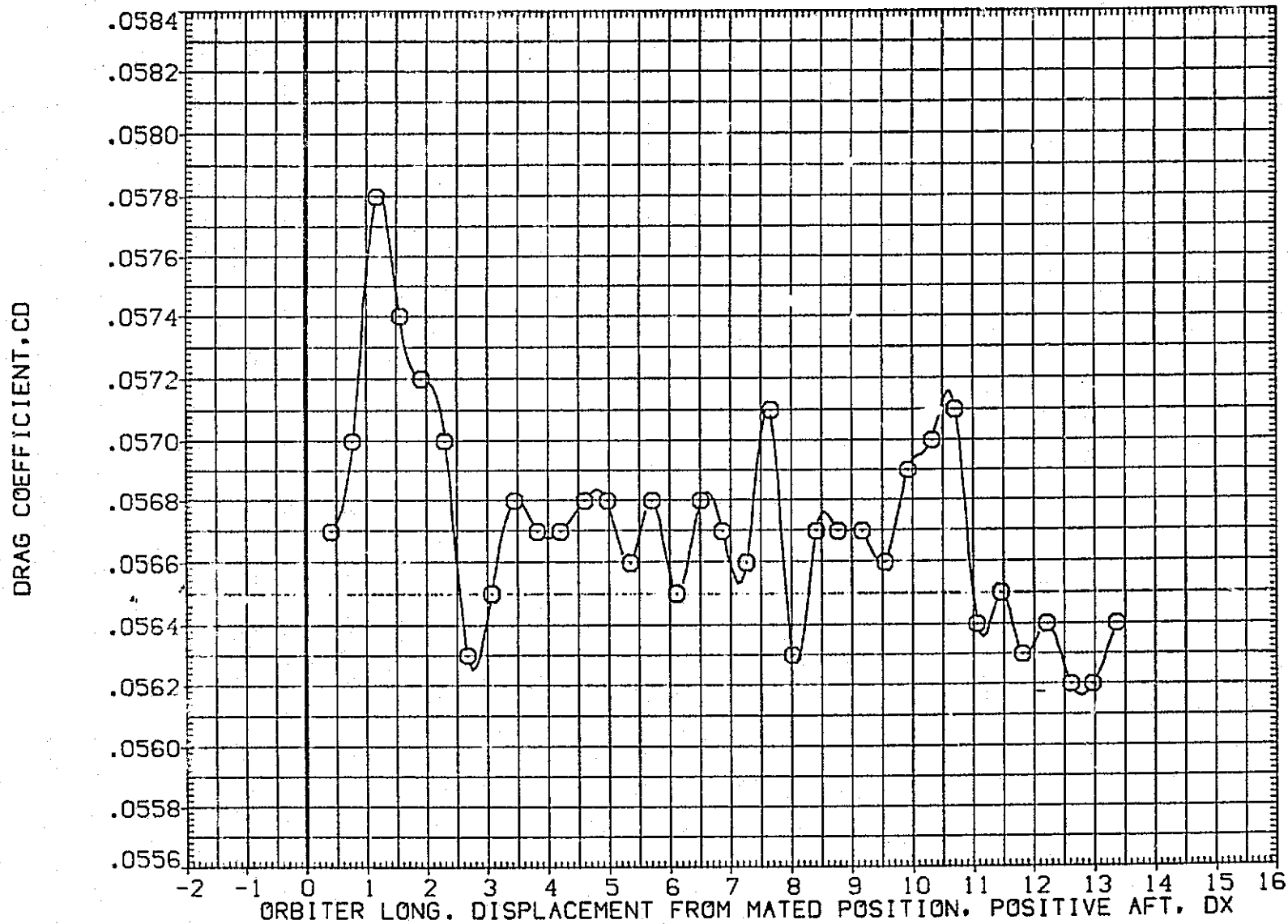


FIG.218 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE114

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE115)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	.000	IORB	6.000
		BETAG	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

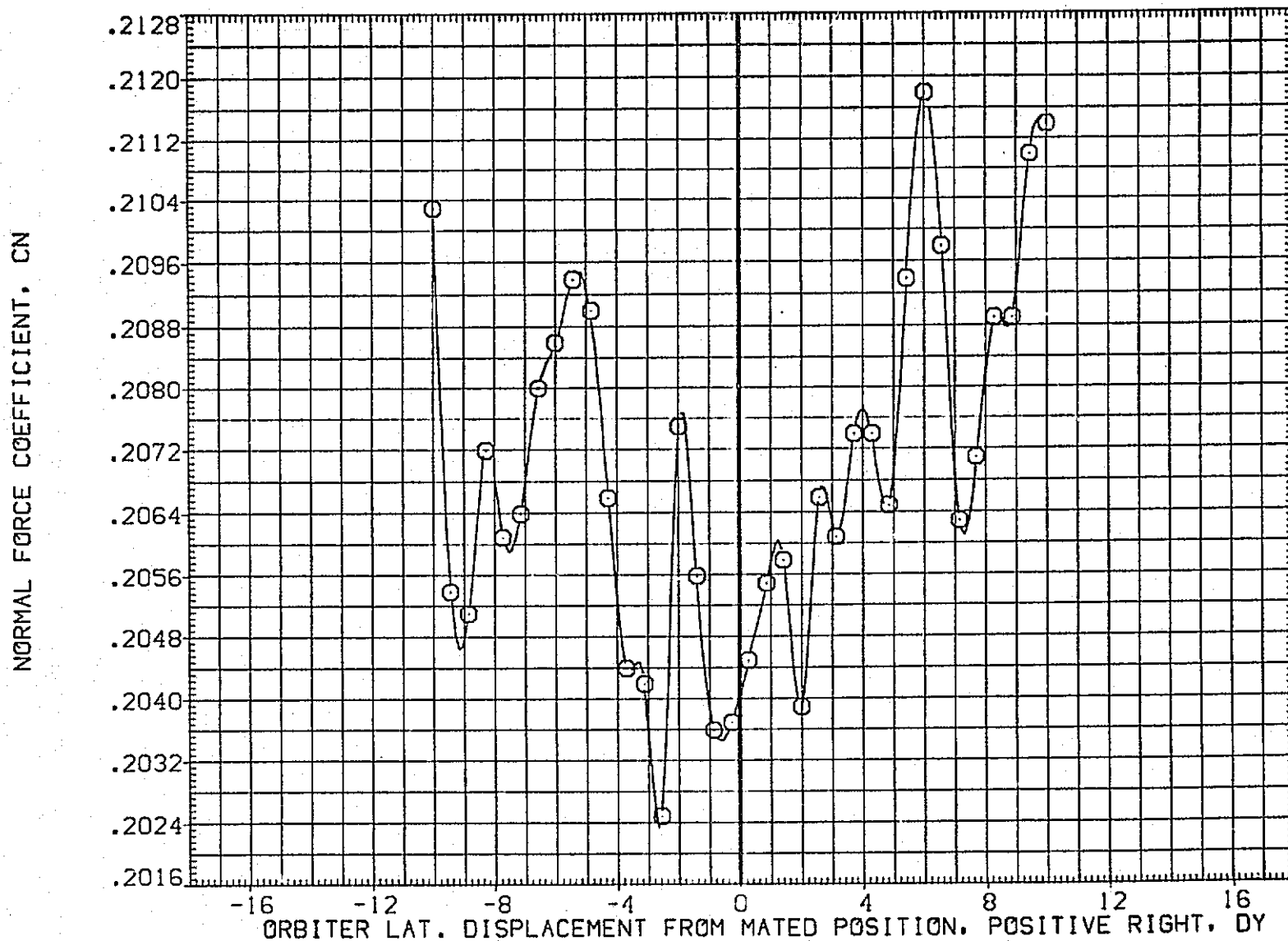


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETAG=0, RFE115

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

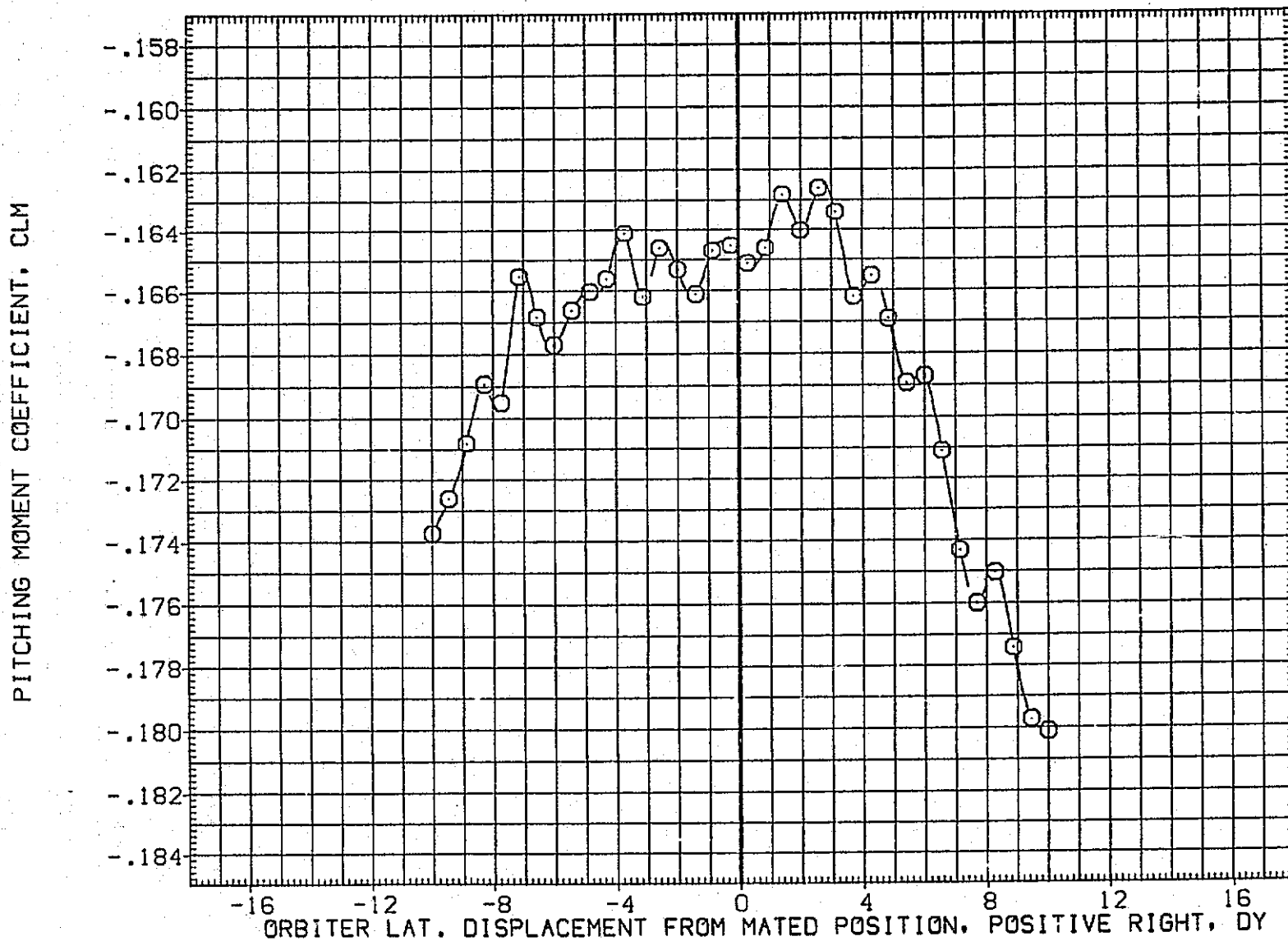


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE115)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

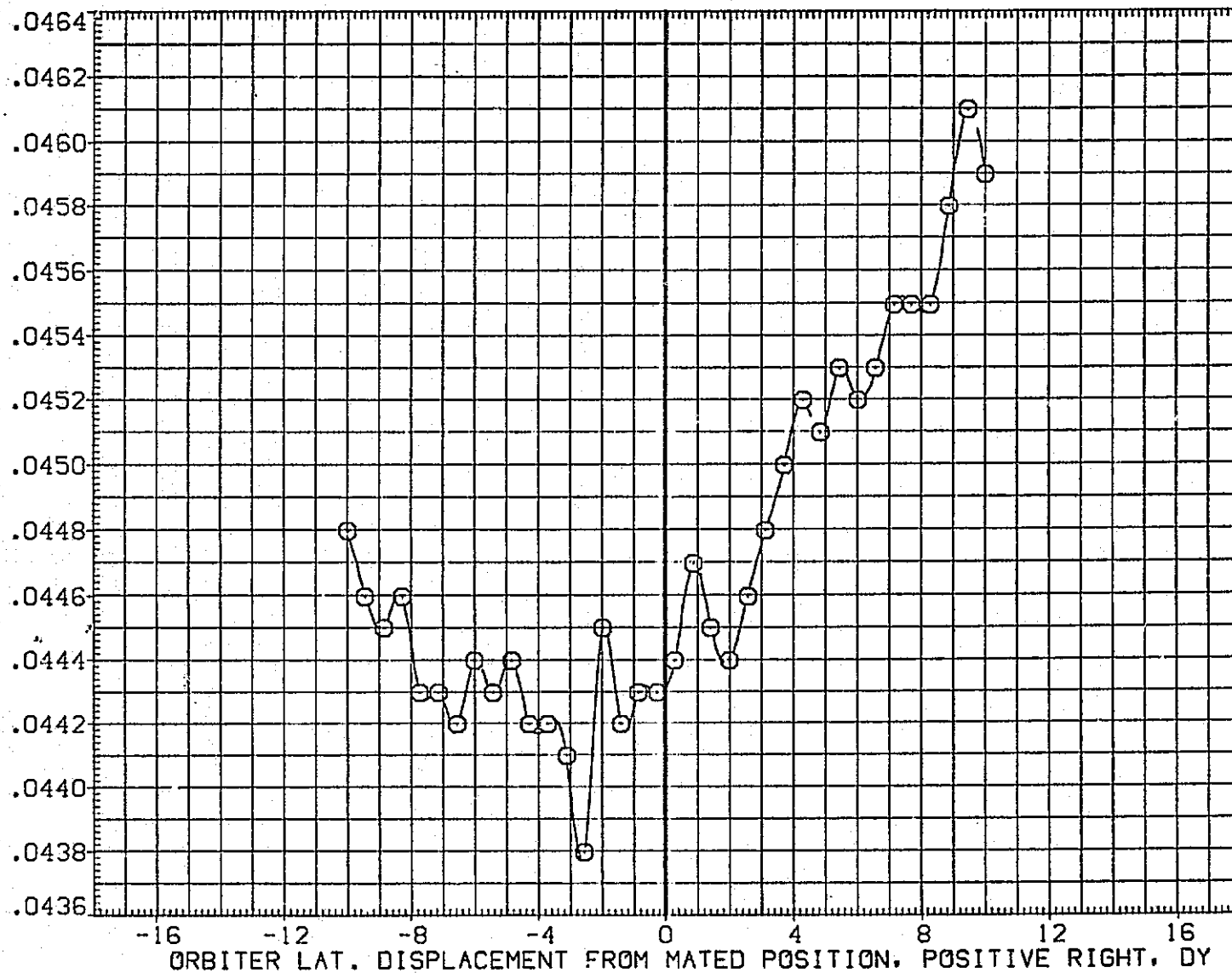


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

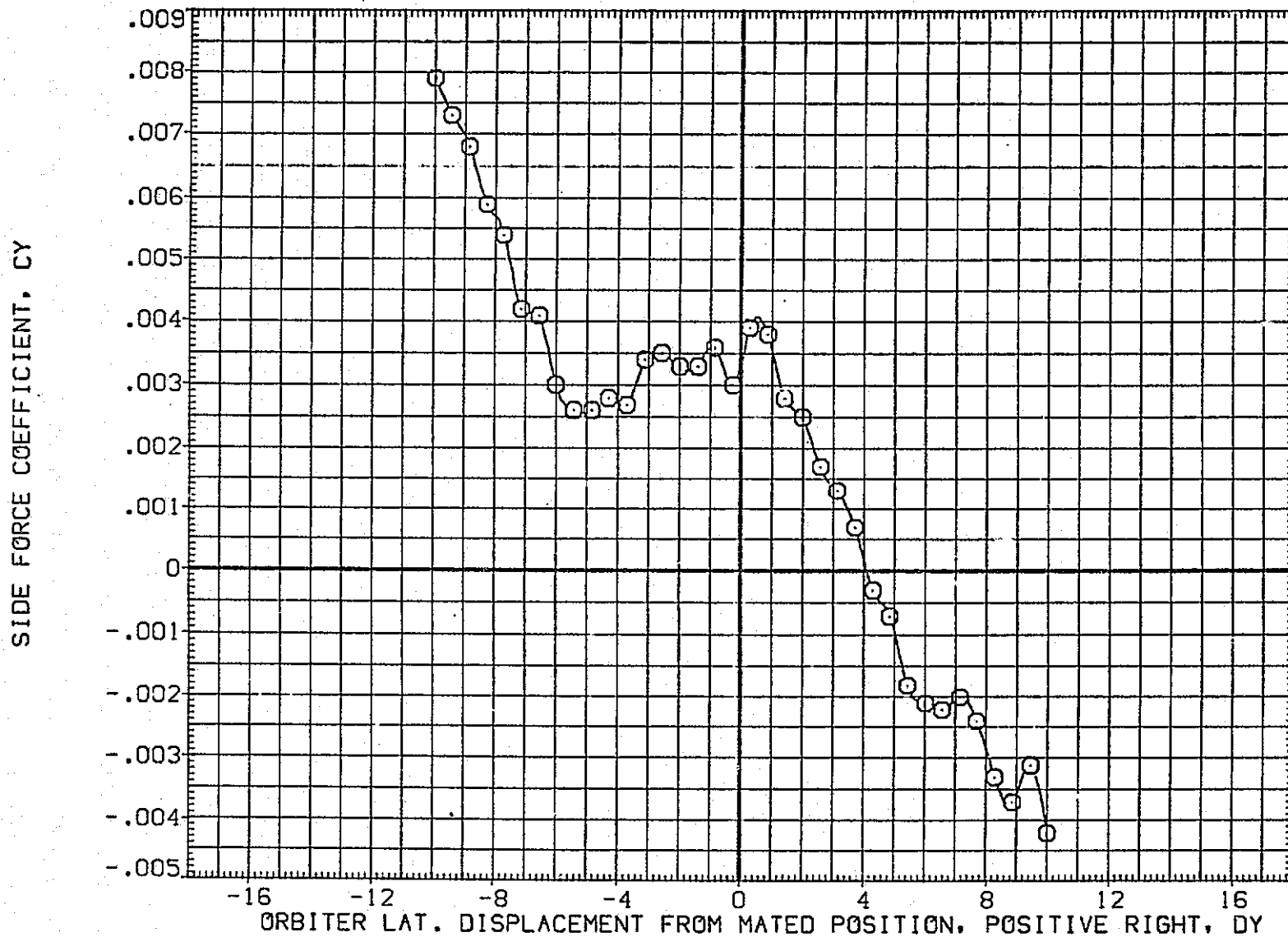


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE115)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DX	SREF	SO.FT.	
○	.605	2.000	.000	.000	.000	5500.0000	IN.	
		5.000	.000	.000	.000	327.7800	IN.	
		.000	.000	.000	.000	2348.0400	IN.	
		.000	6.000	.000	.000	1339.9000	IN. XC	
		.000	.000	.000	.000	.0000	IN. YC	
		.000	.000	.000	.000	190.7500	IN. ZC	
						.0125		

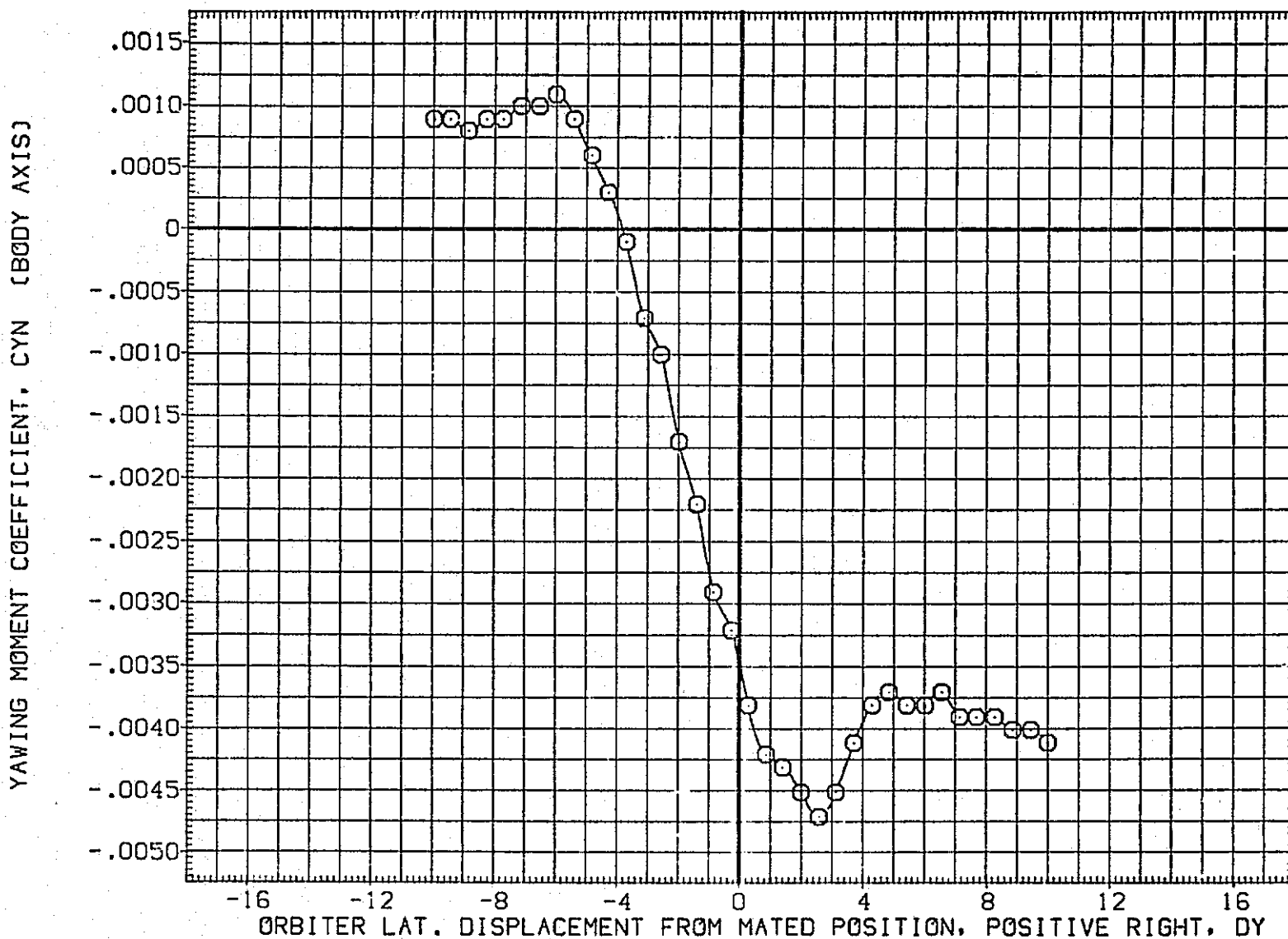


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ. FT.
LREF	327.7800	IN.
BREF	2346.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

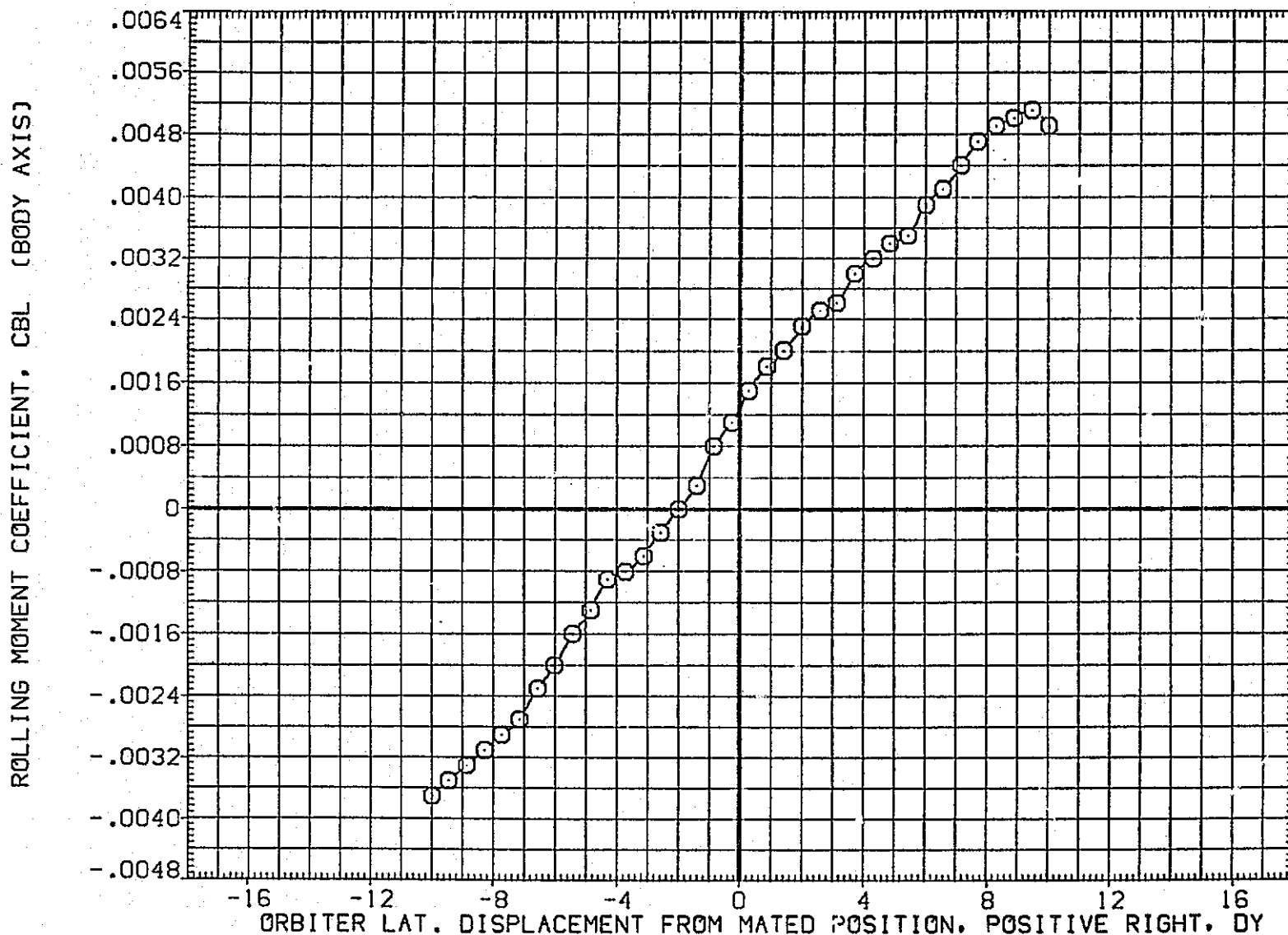


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE115)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

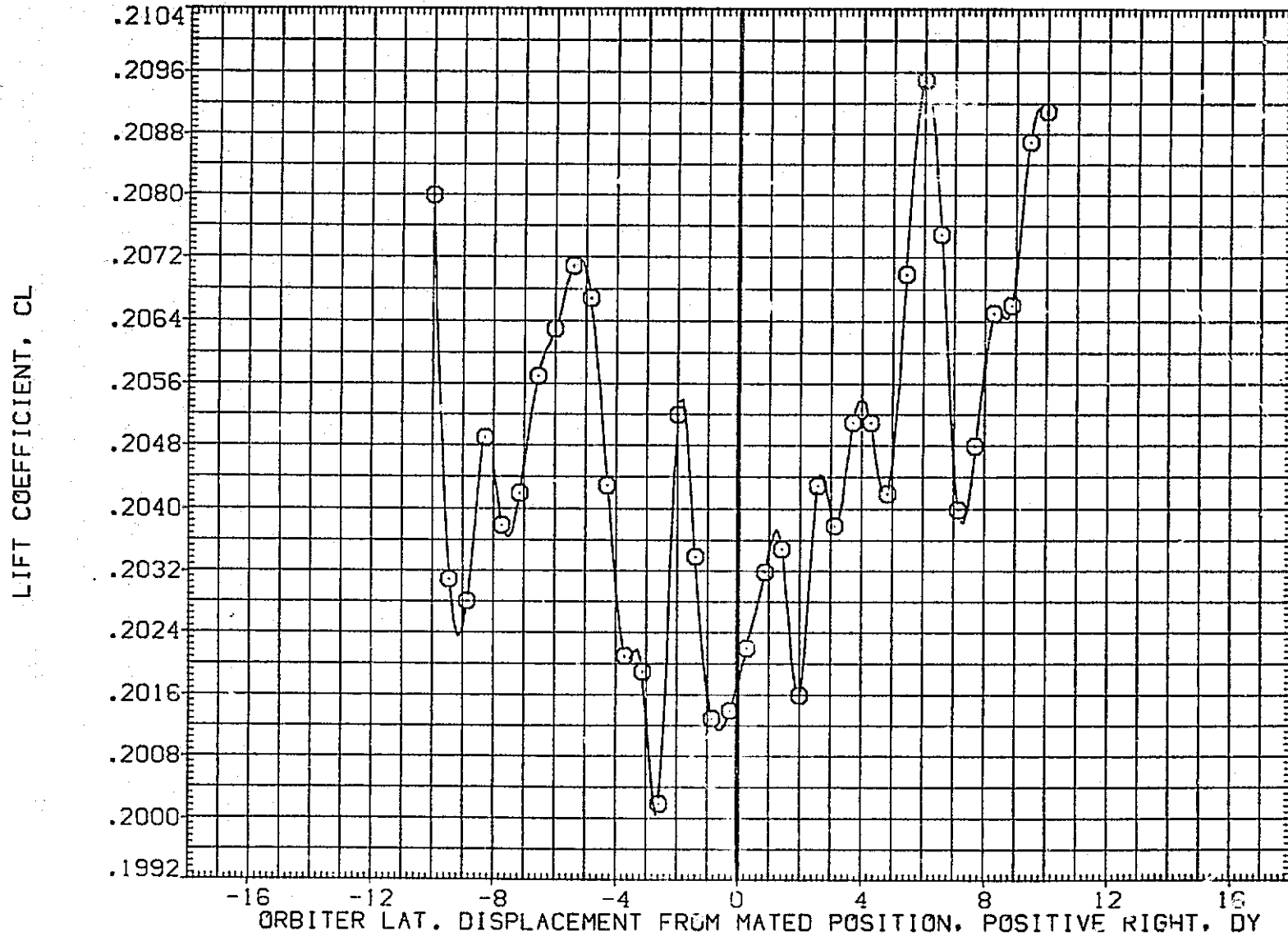


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

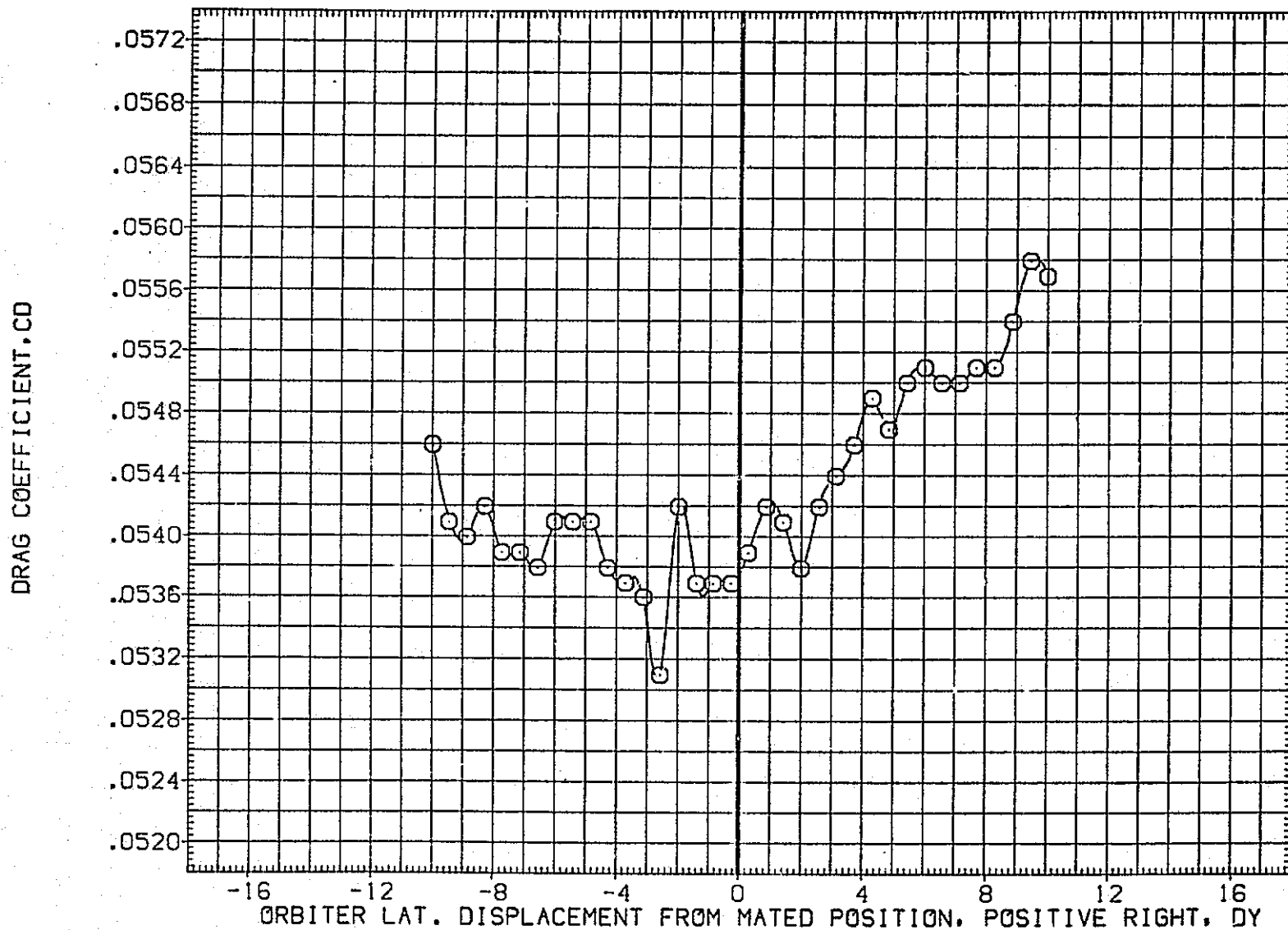


FIG.219 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE115

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE116)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION										
		ALPHAC	BETAC	BETAO	DPHI	SREF	LREF	BREF	SCALE	SO.FT.	IN.	IN.	IN.	IN.	IN.	IN.
○	.606	2.000	.000	.000	.000	5500.0000	327.7800	2348.0400	.0125	16	IN.	IN.	IN.	IN.	IN.	IN.
		5.000	.000	.000	.000	1339.9000	.0000	190.7500								
		.000	6.000	.000	.000											
		15.000	.000	.000	.000											
		BETAO	DPHI													

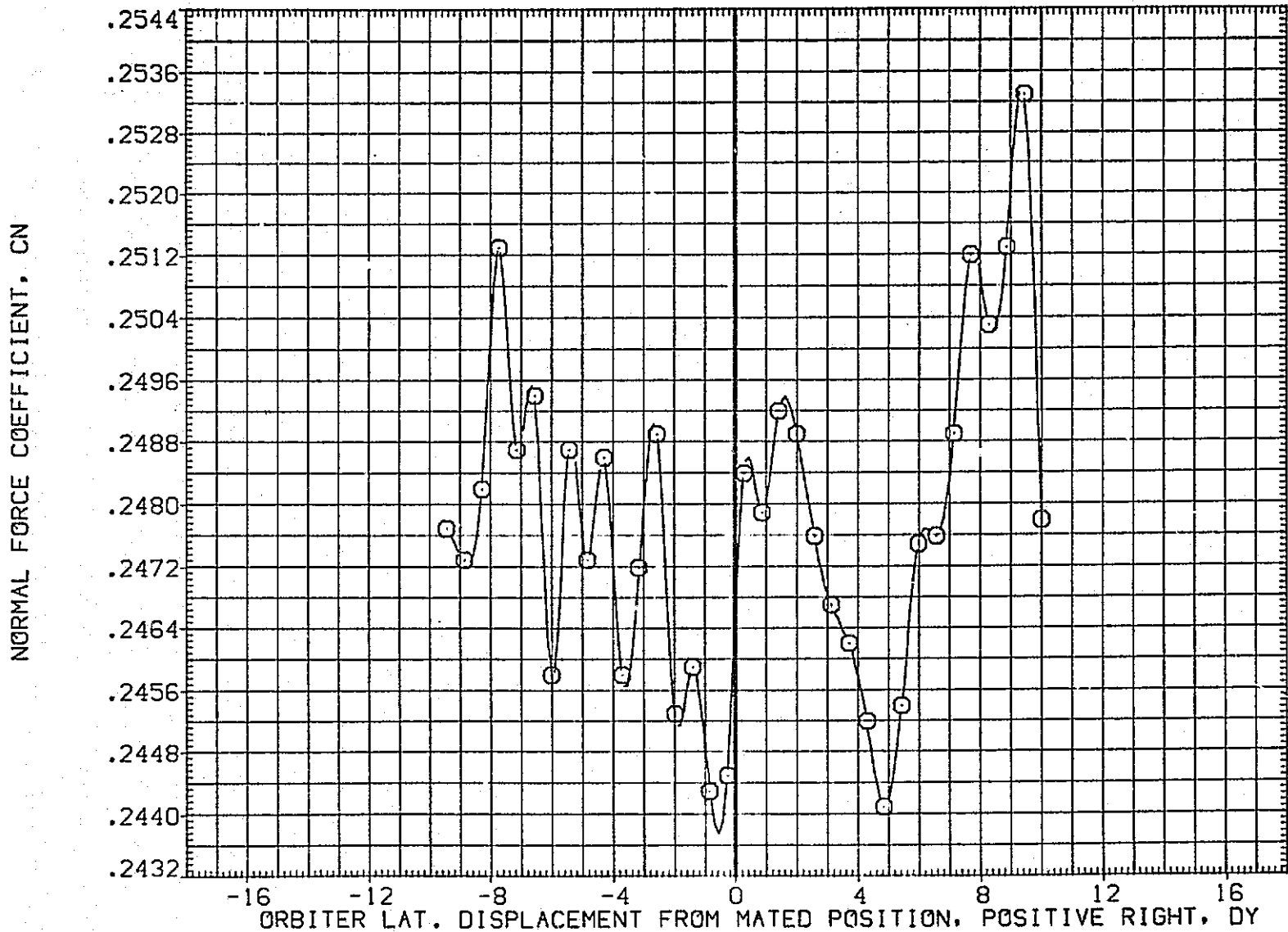


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

SYMBOL	MACH	PARAMETRIC VALUES			
○	.606	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

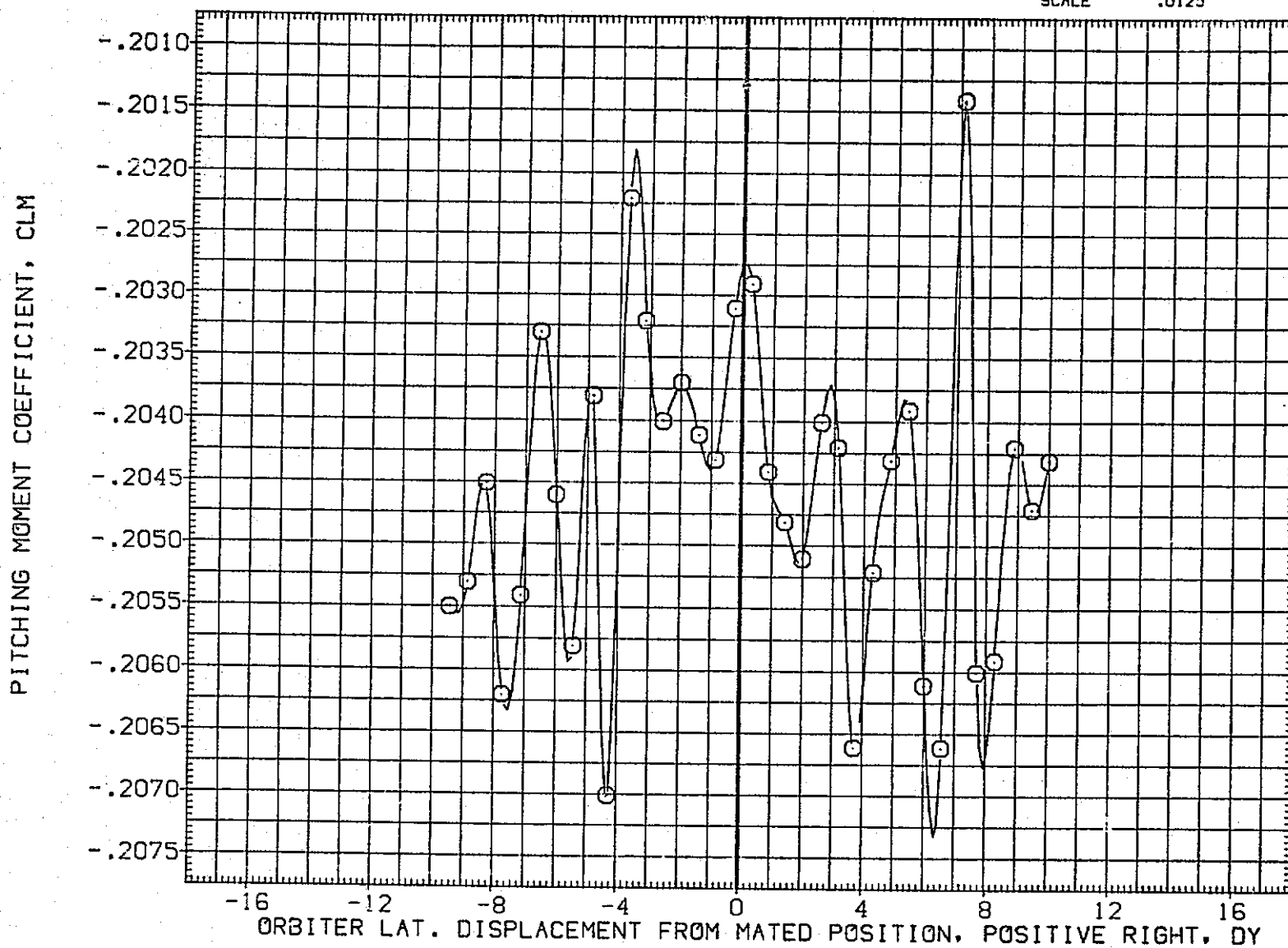


FIG.220 CARRIER DATA. ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE116)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.606	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

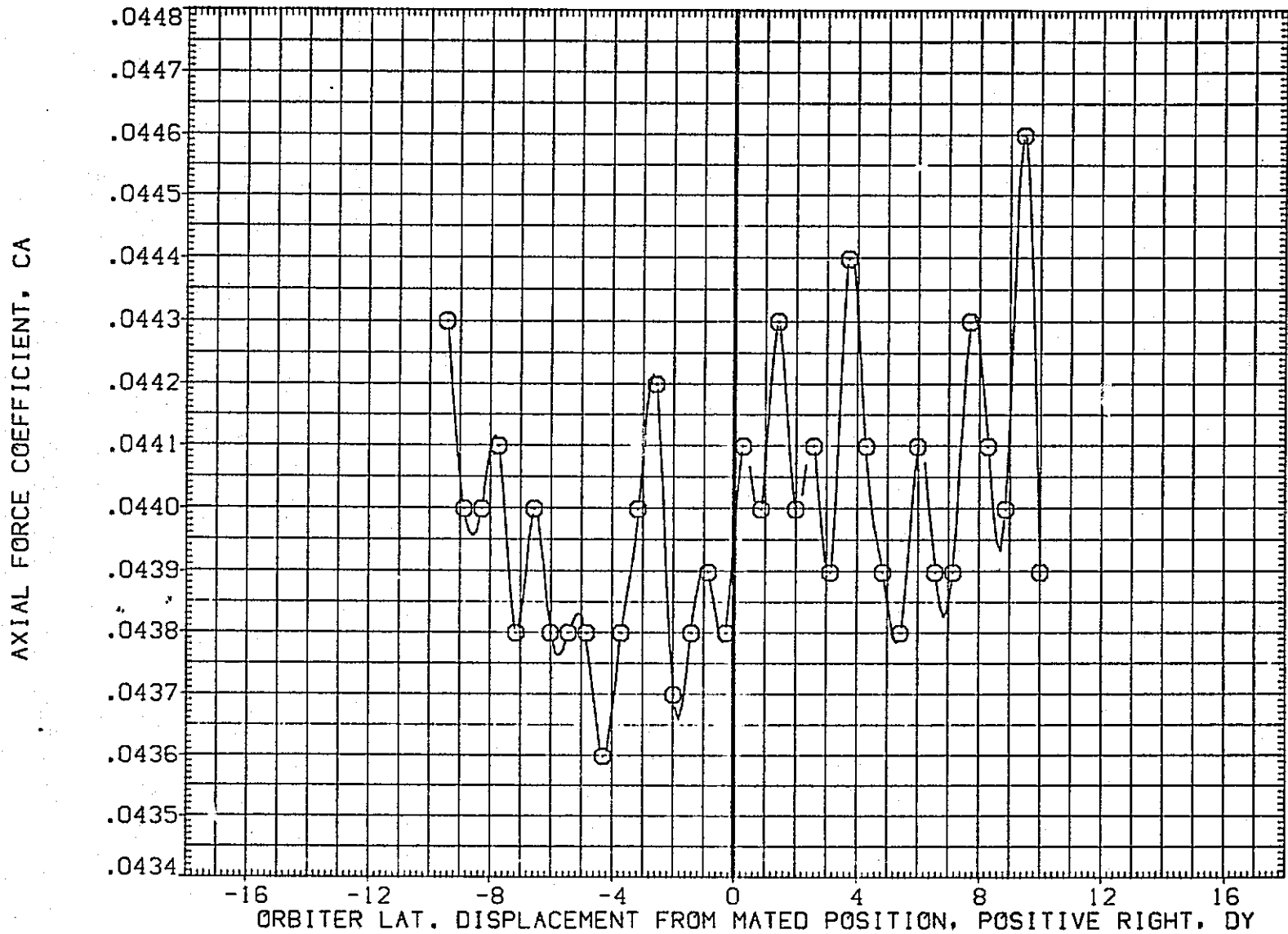


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

SYMBOL

○

MACH

.606

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

.000

STAB

5.000

RUDDER

.000

ELEVON

.000

DX

.000

OZ

15.000

IORB

6.000

BETA0

.000

DPHI

.000

REFERENCE INFORMATION

SREF

5500.0000

SQ.FT.

LREF

327.7800

IN.

BREF

2348.0400

IN.

XMRP

1339.9000

IN. XC

YMRP

.0000

IN. YC

ZMRP

190.7500

IN. ZC

SCALE

.0125

SIDE FORCE COEFFICIENT, CY

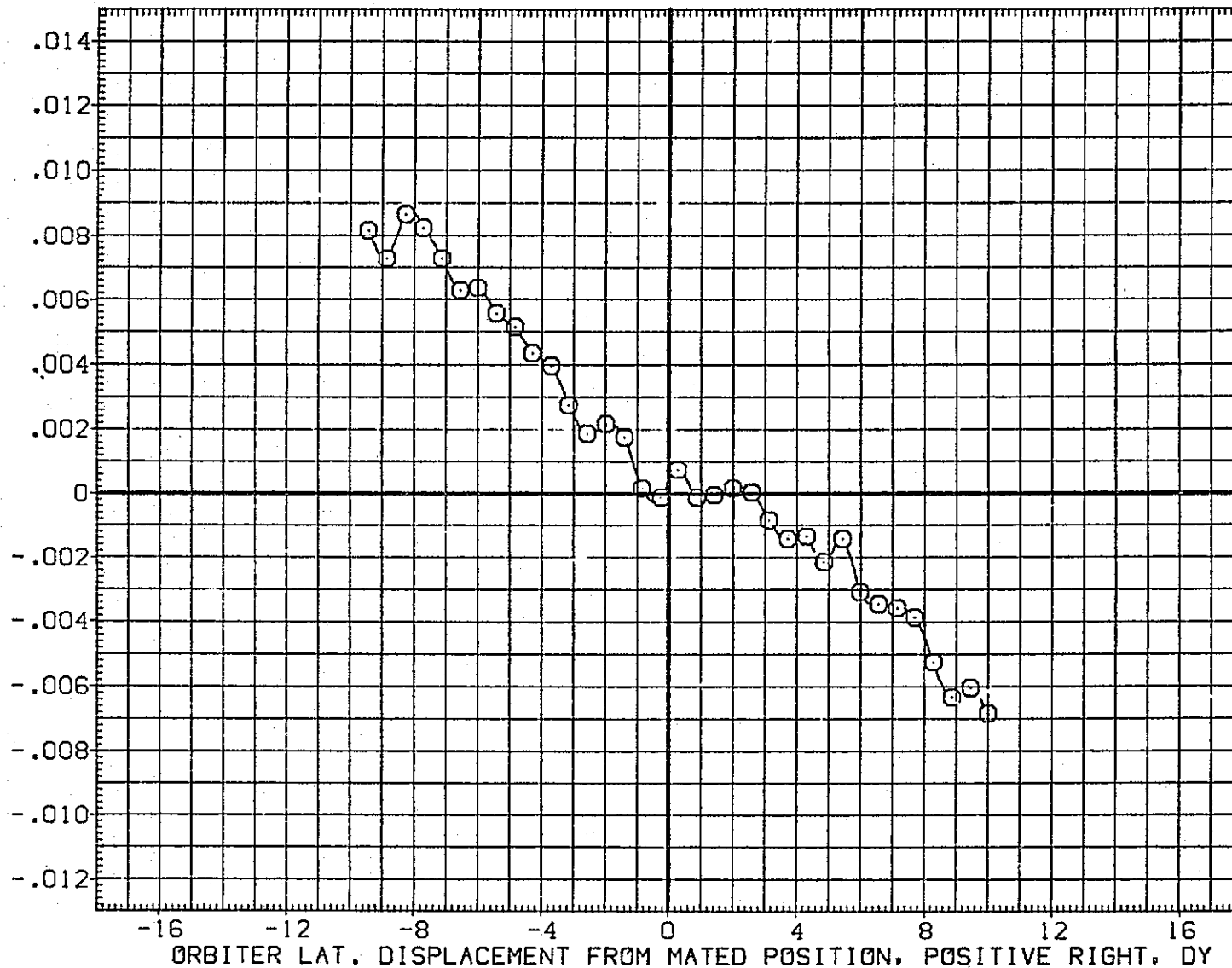


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE116)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.606	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	15.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

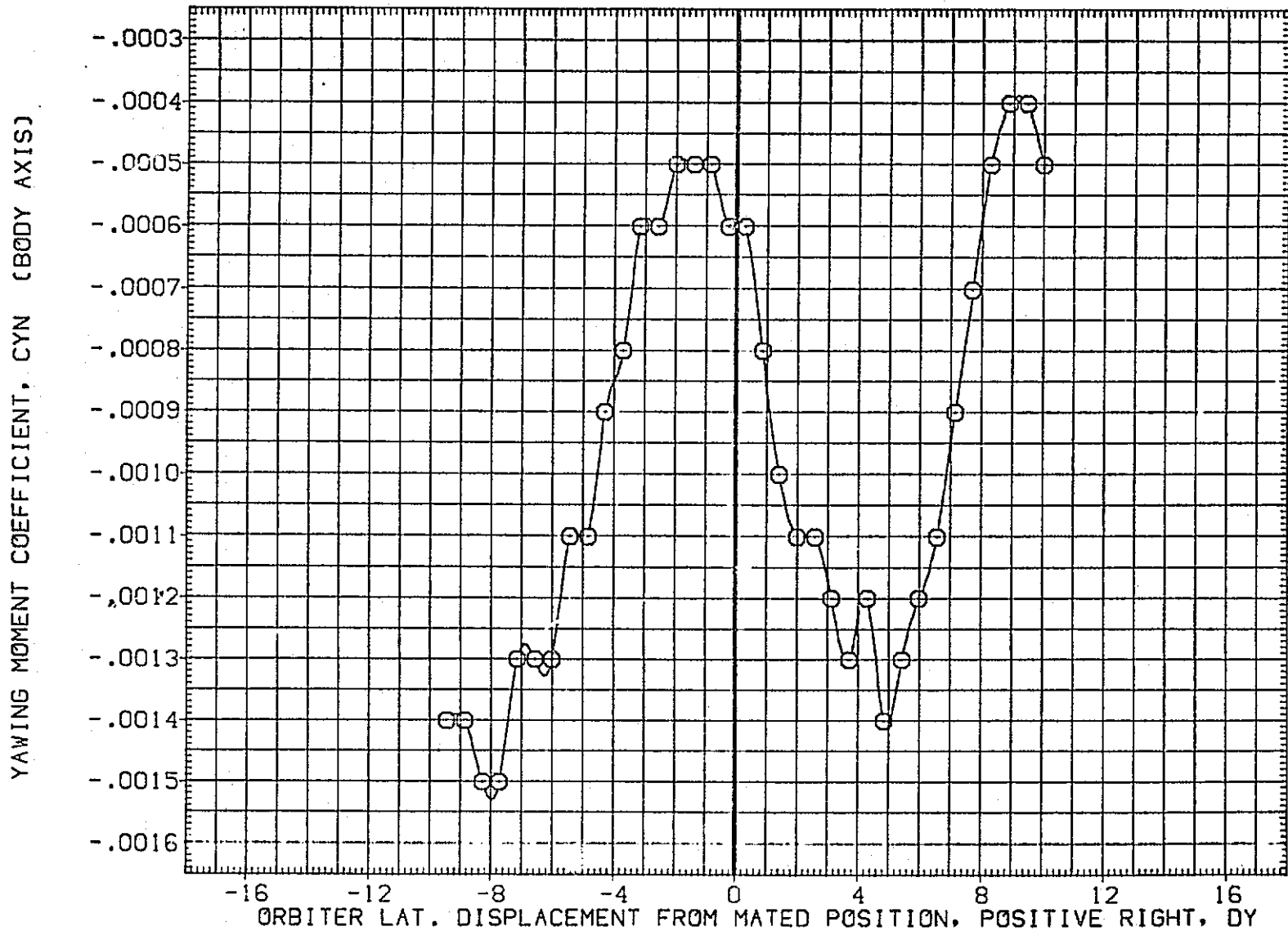


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

SYMBOL	MACH	PARAMETRIC VALUES			
○	.606	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

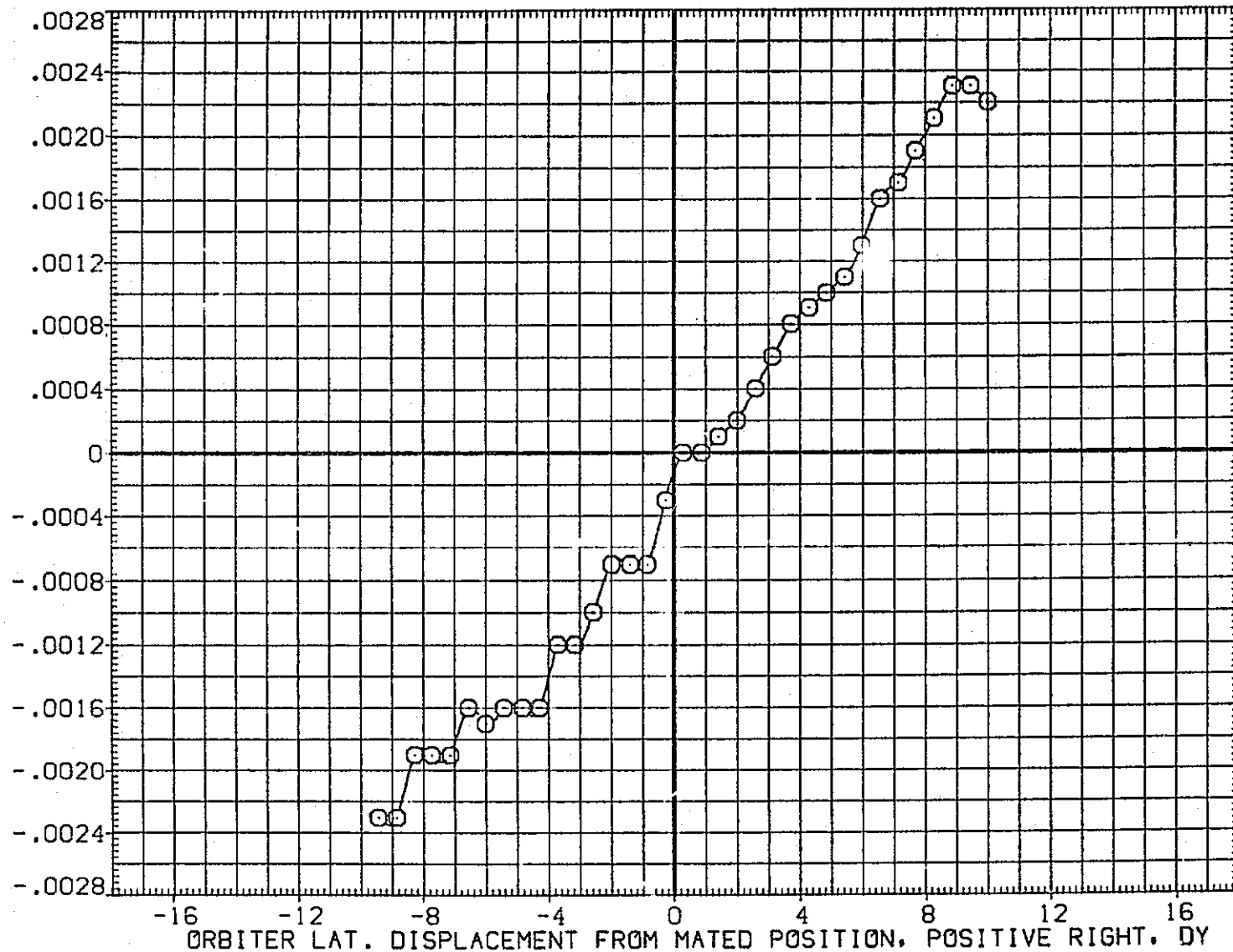


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE116)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.606	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		OZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

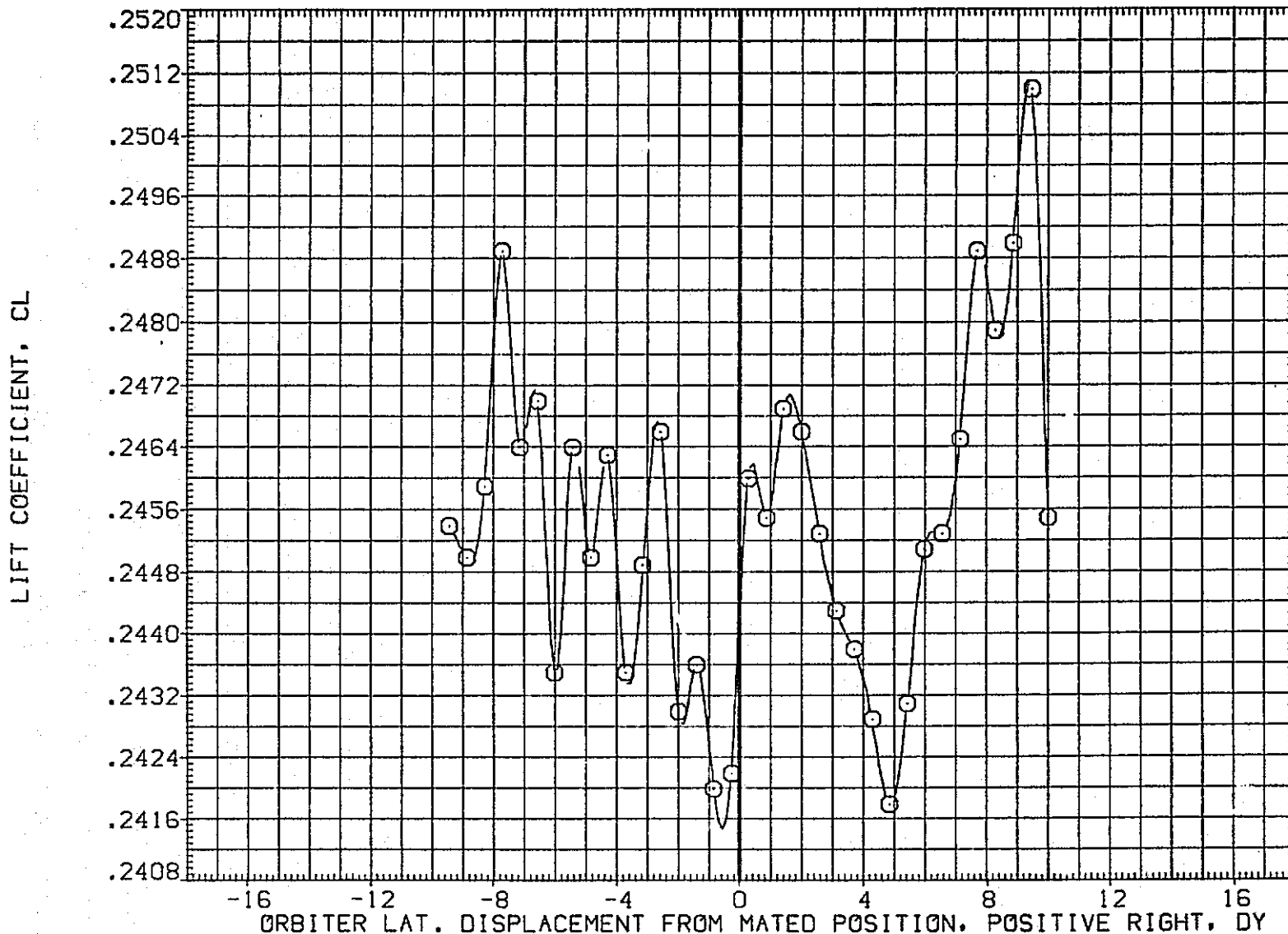


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

SYMBOL	MACH	PARAMETRIC VALUES			
○	.606	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	15.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

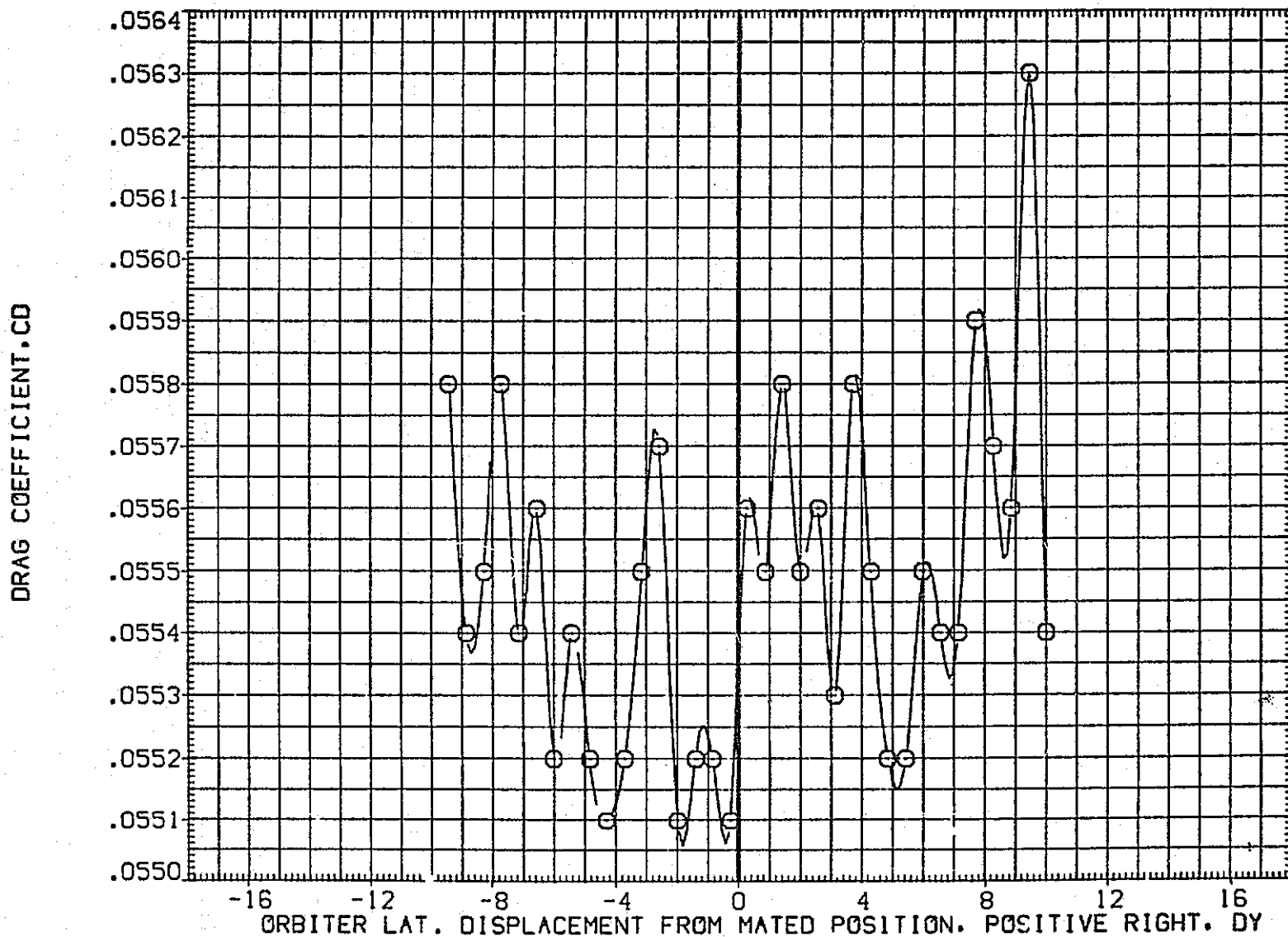


FIG.220 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE116

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE117)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		D:	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETAC	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

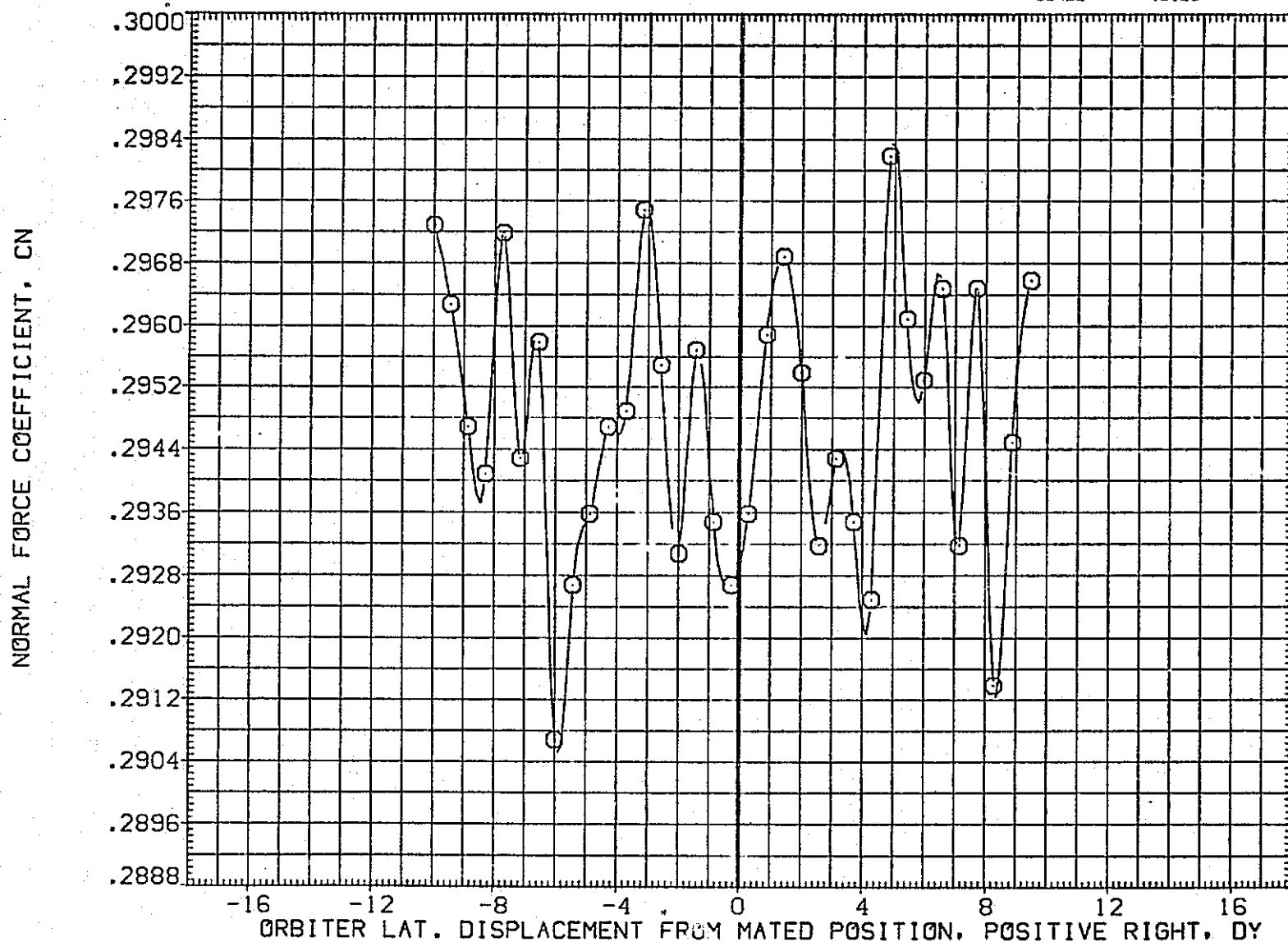


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

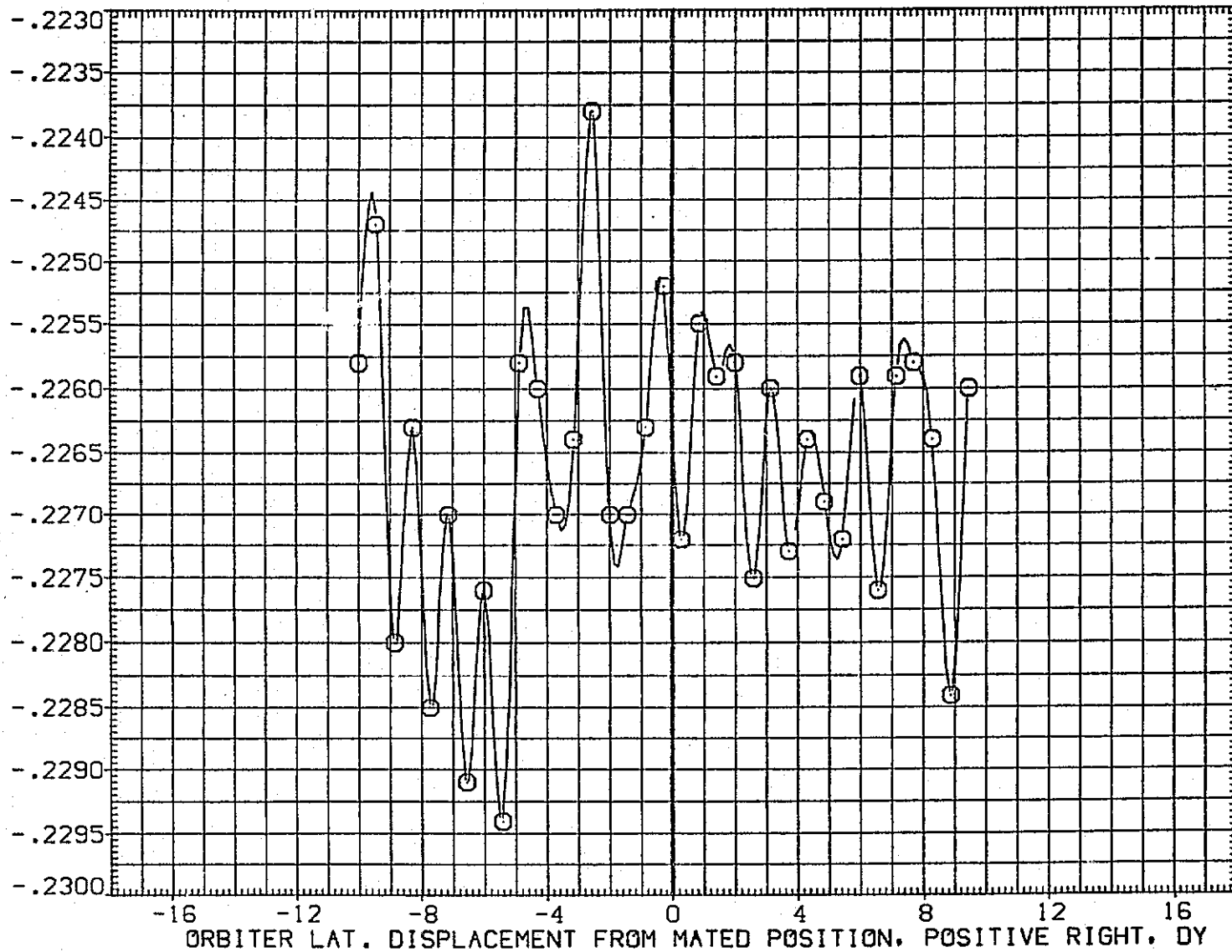


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE117)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YMRP	1339.9000	IN. XC
ZMRP	.0000	IN. YC
SCALE	190.7500	IN. ZC
	.0125	

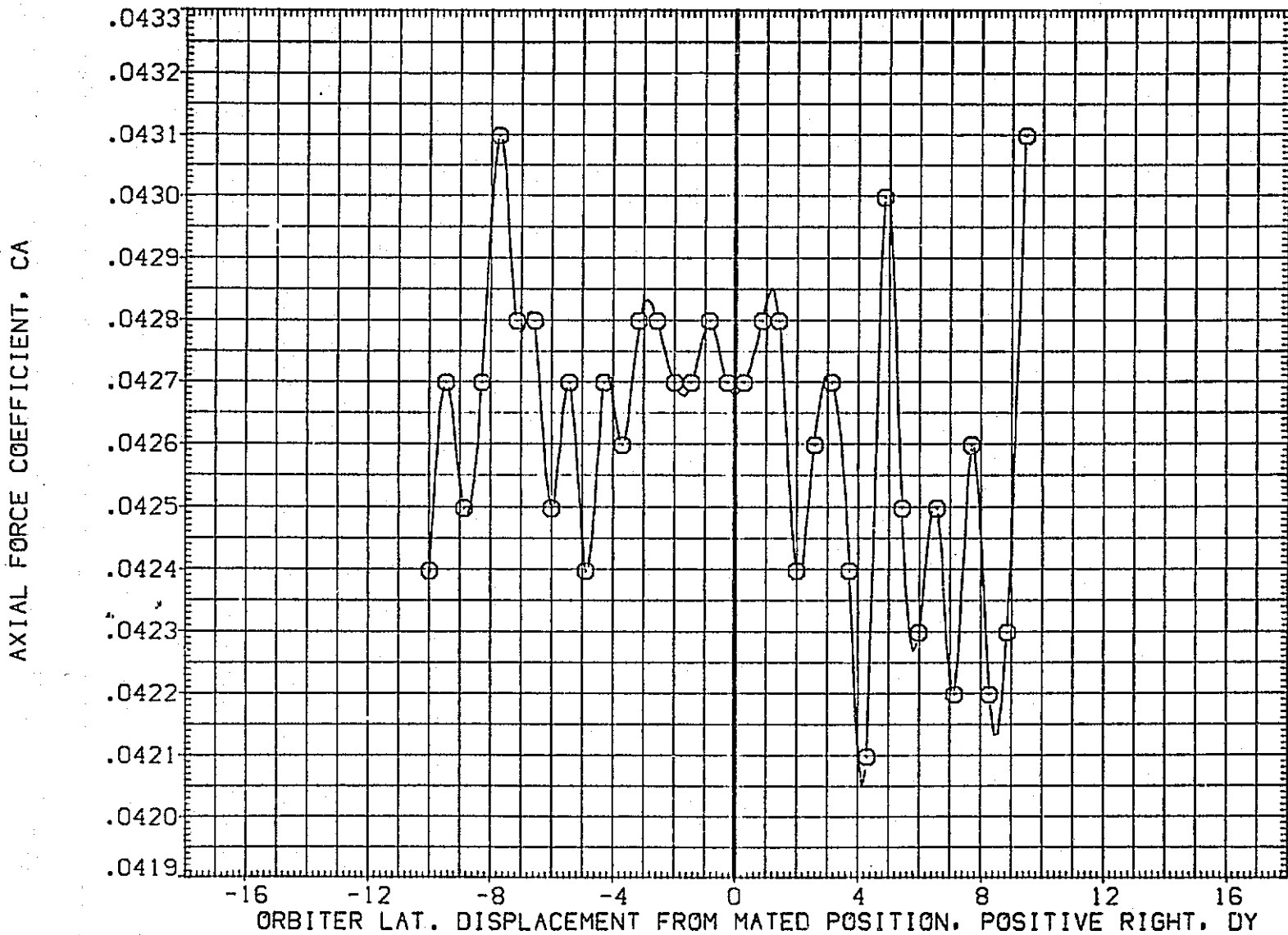


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

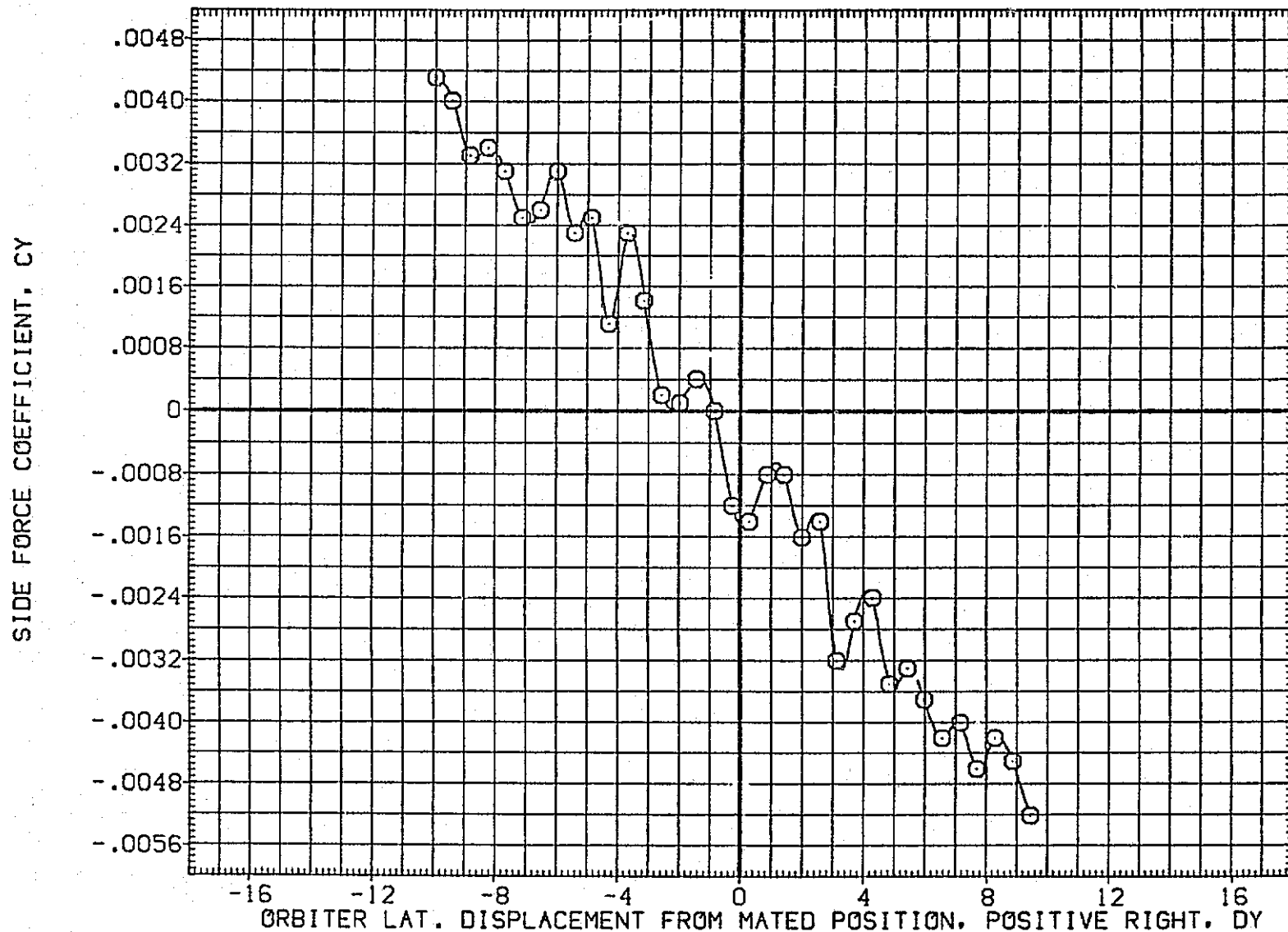


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE117)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DZ	60.000	IORB	5.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

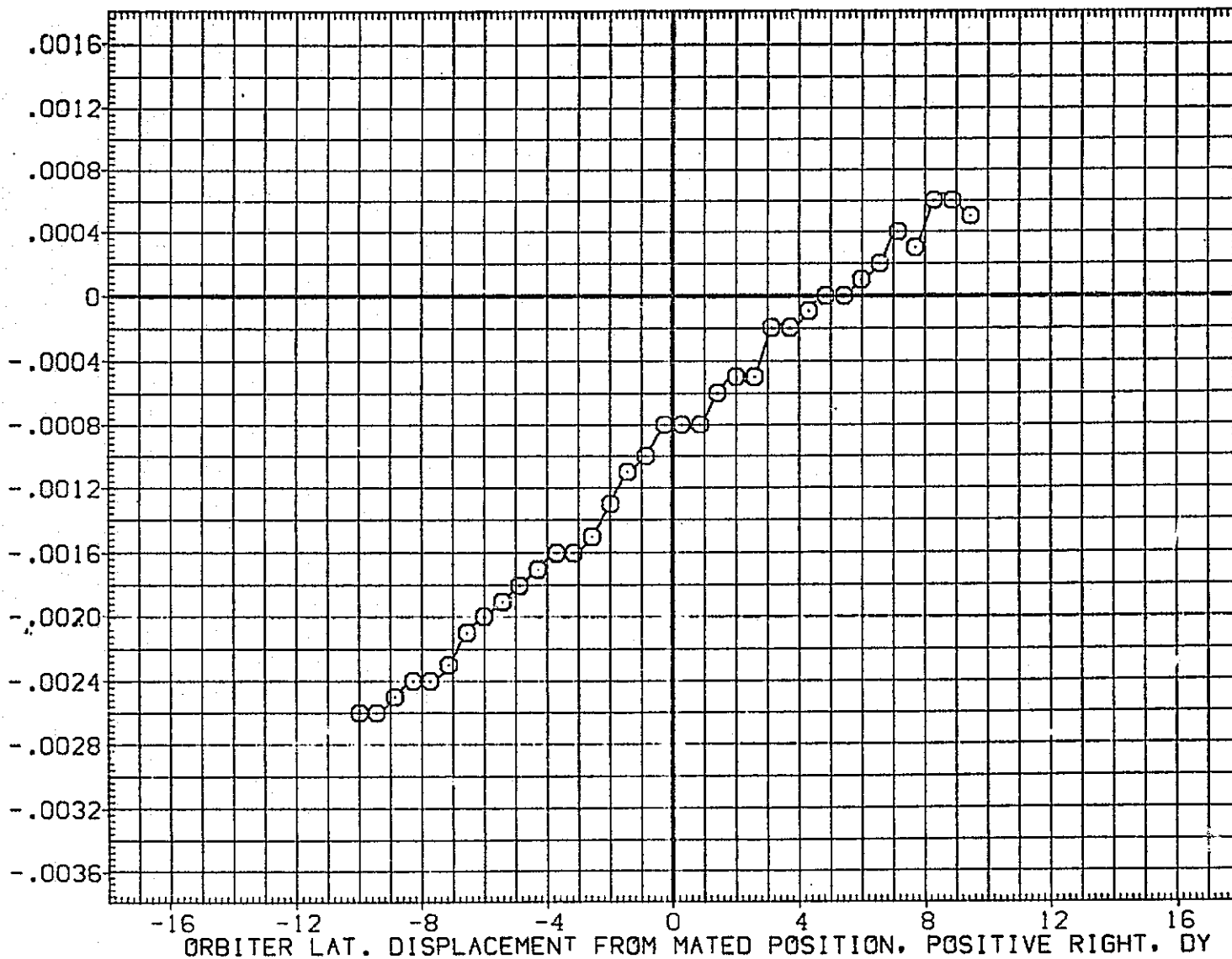


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

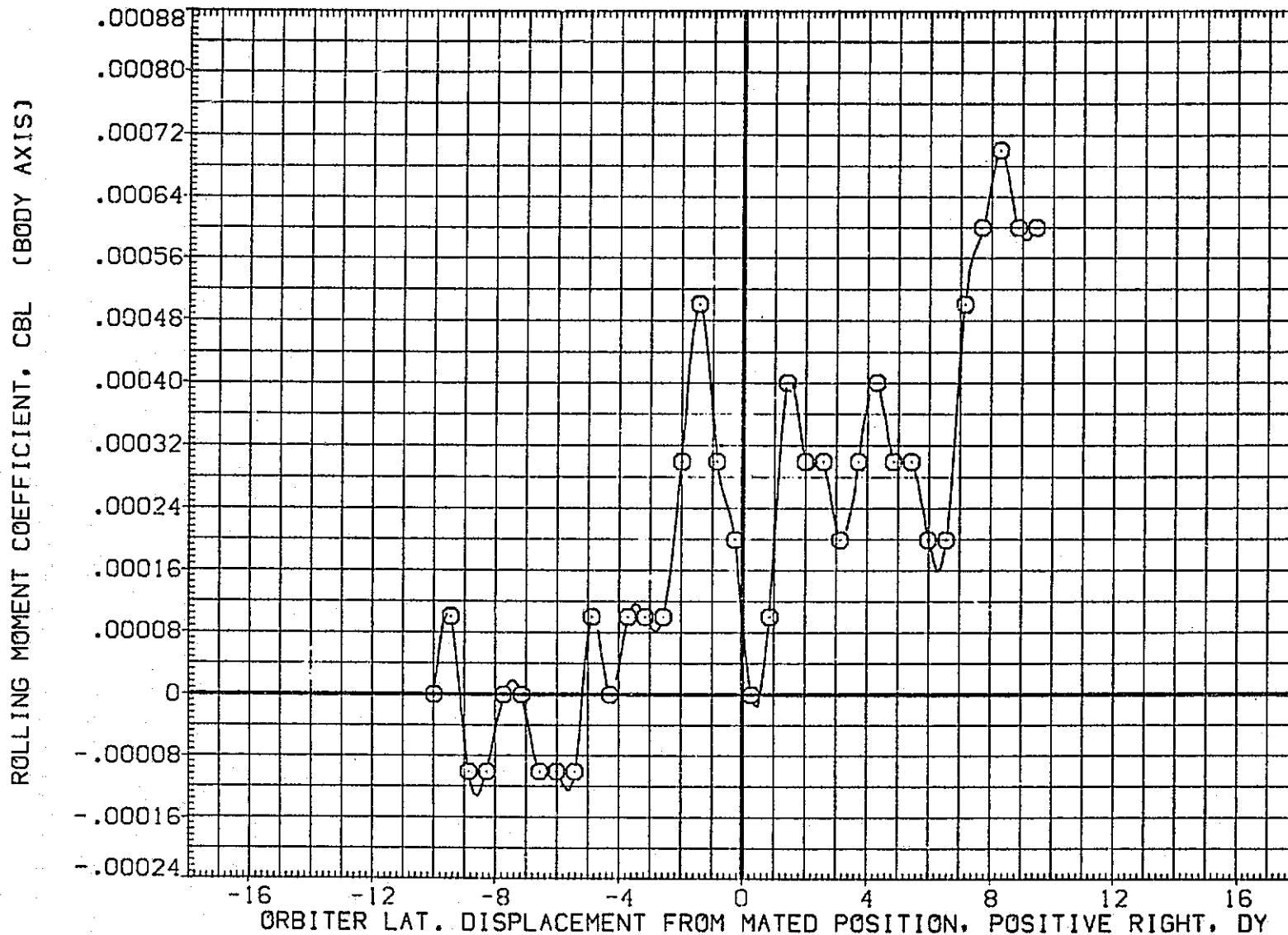


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE117)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	60.000	ICRB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

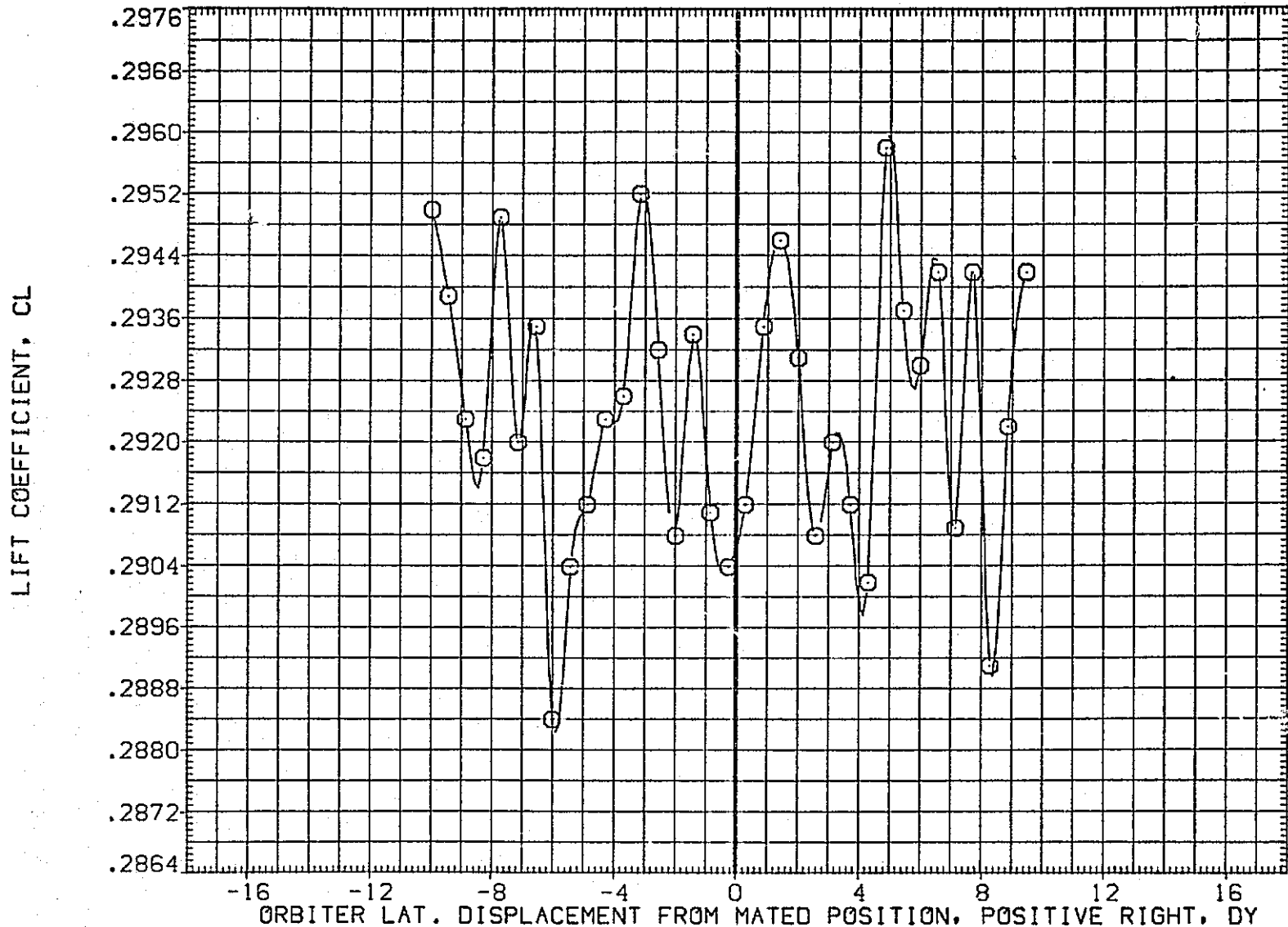


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, ICRB=6, BETAC=0, BETA0=0, RFE117

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DZ	60.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

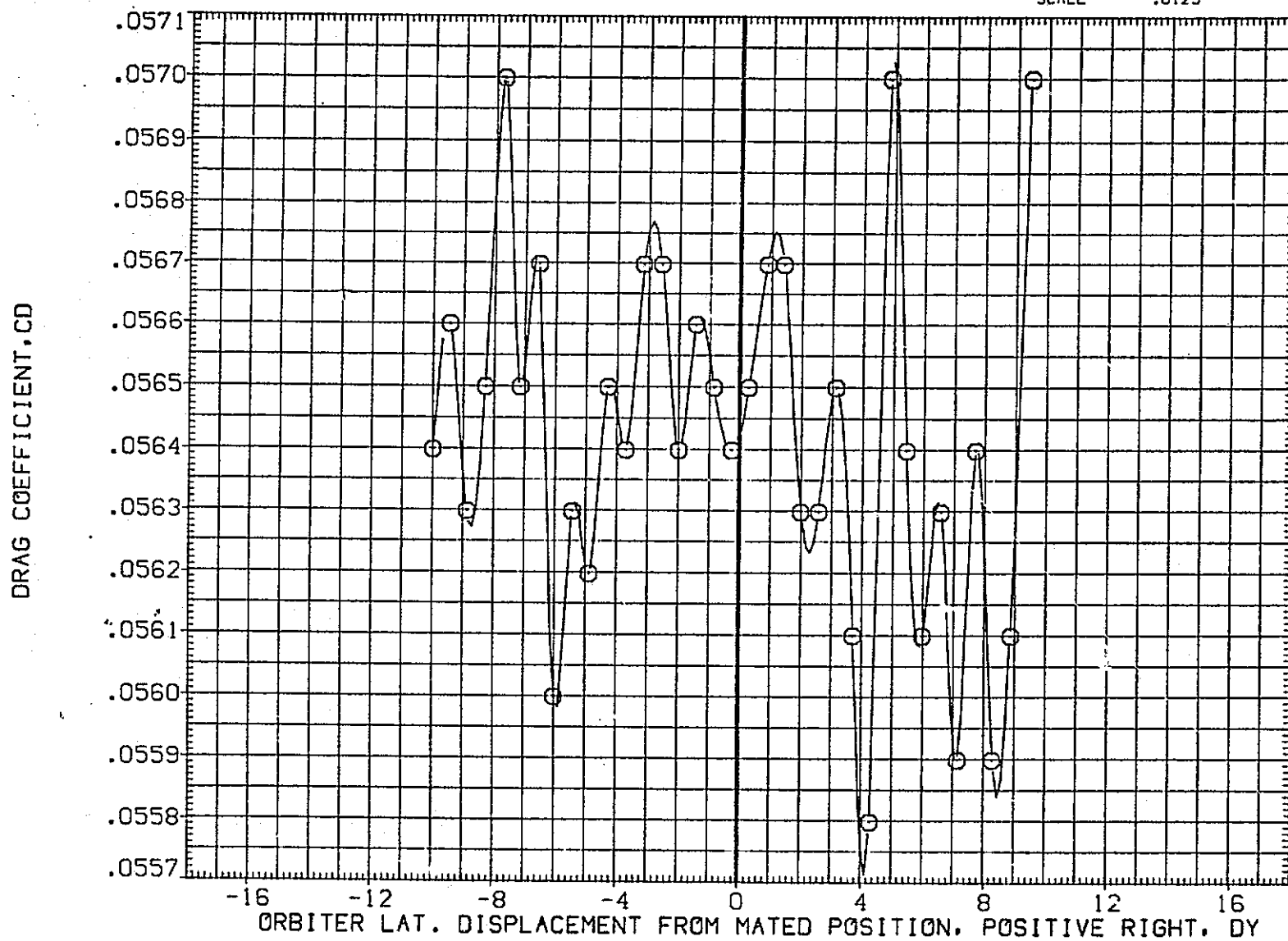


FIG.221 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE117

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE118)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.605	ALPHAC	2.000	BETAC	.000
	STAB	-1.000	RUDDER	.000
	ELEVON	.000	OX	.000
	DY	.000	IORB	6.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

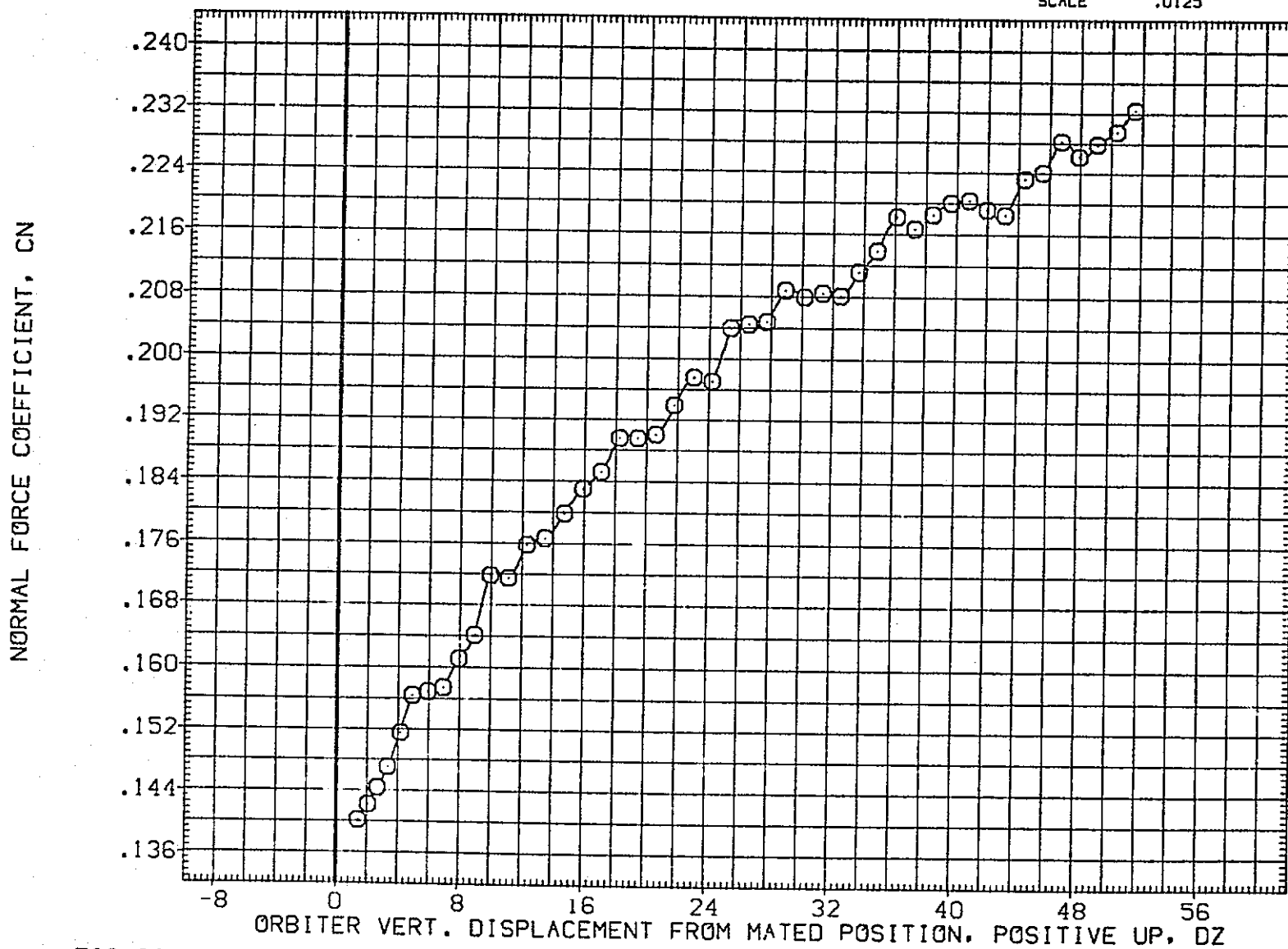


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

SYMBOL	MACH	PARAMETRIC VALUES			
		ALPHAC	BETAC	RUDDER	DX
○	.605	2.000	.000	.000	.000
		-1.000	.000	.000	.000
		.000	.000	.000	.000
		.000	6.000	.000	.000
		.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	.339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

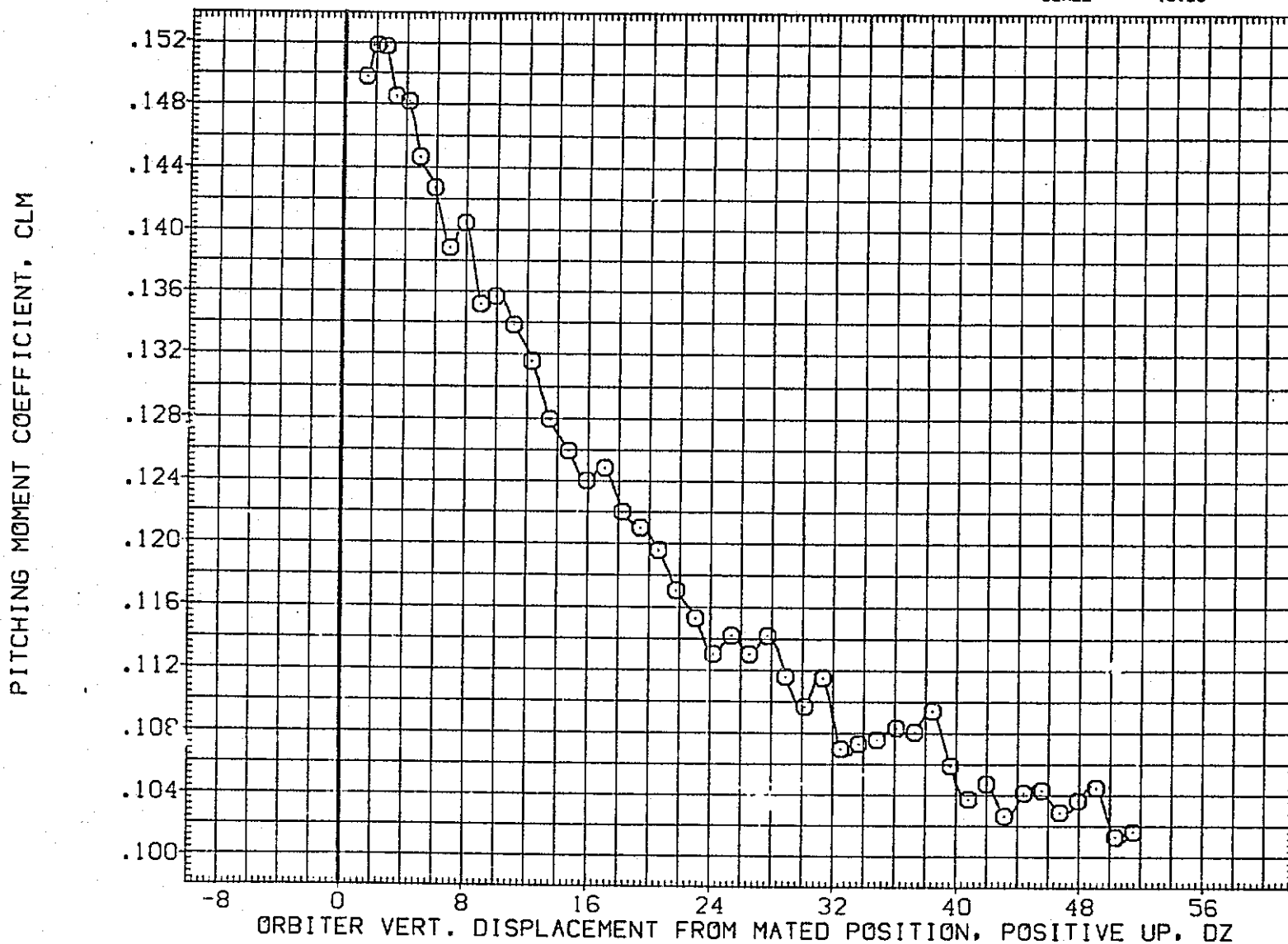


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE118)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

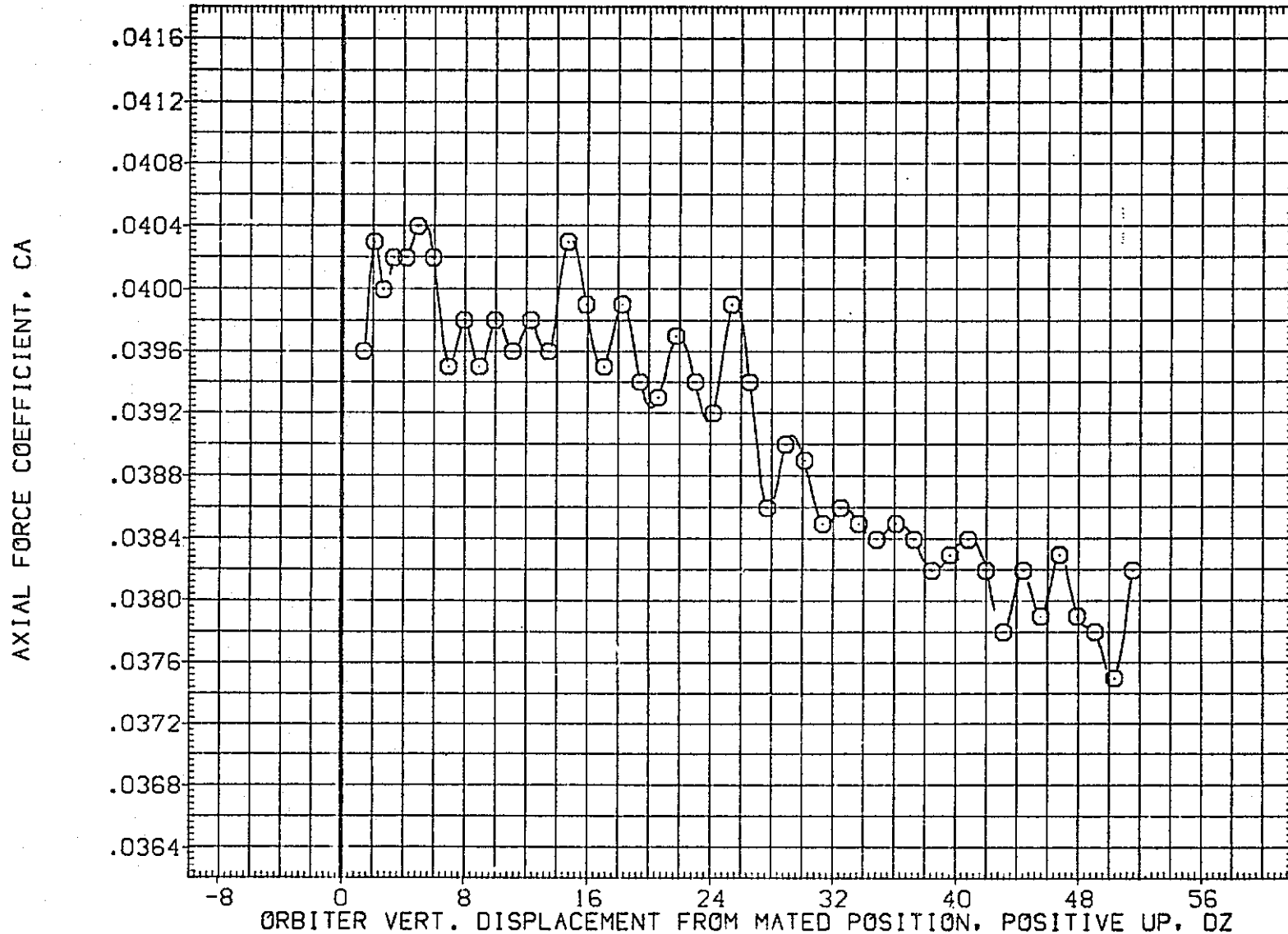


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

SYMBOL	MACH	PARAMETRIC VALUES			REFERENCE INFORMATION			
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	-1.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

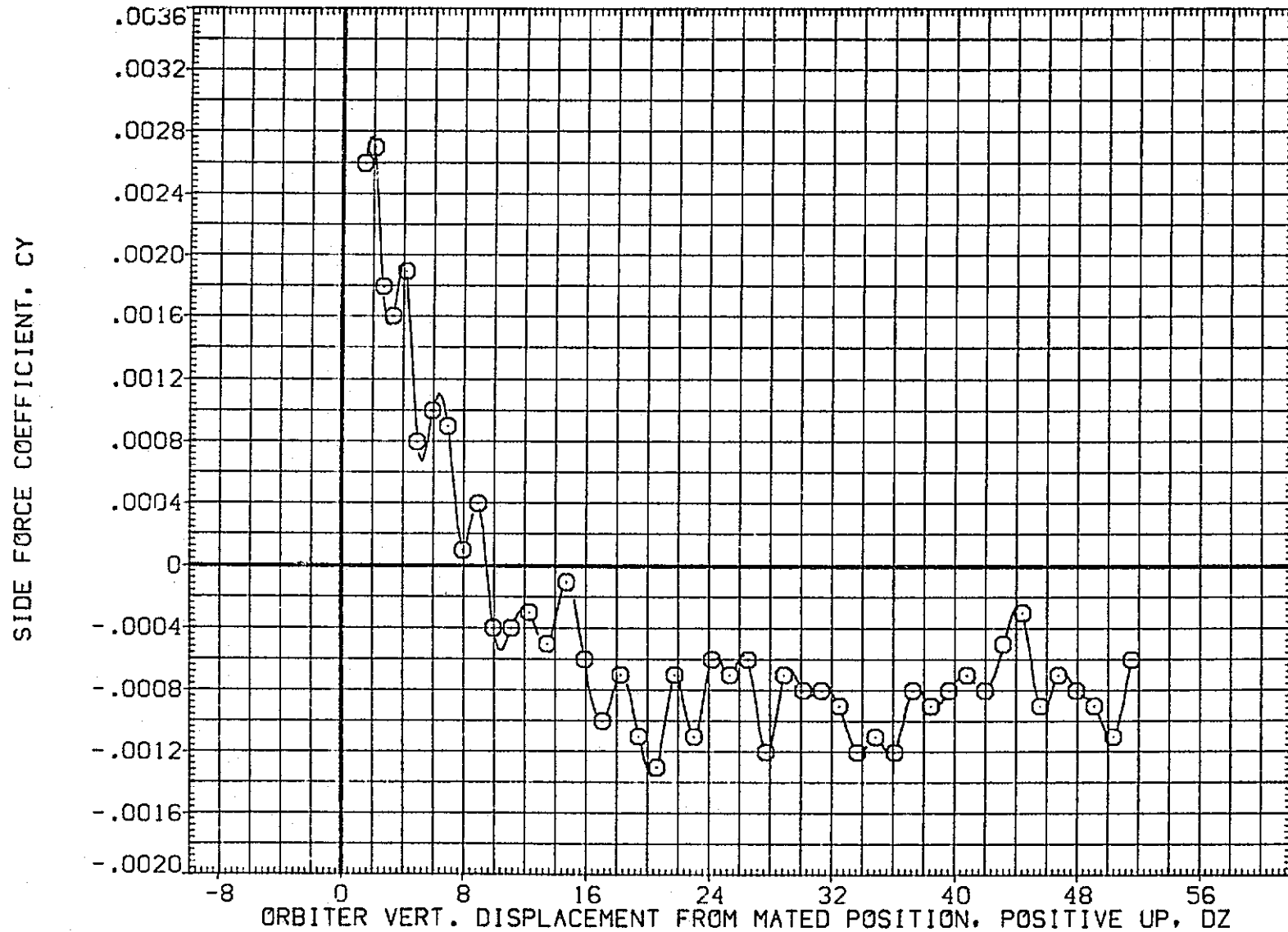


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE118)

SYMBOL	MACH	PARAMETRIC VALUES						REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SO.FT.		
		STAB	-1.000	RUDDER	.000	LREF	327.7800	IN.		
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.		
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC		
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC		
						ZMRP	190.7500	IN. ZC		
						SCALE	.0125			

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

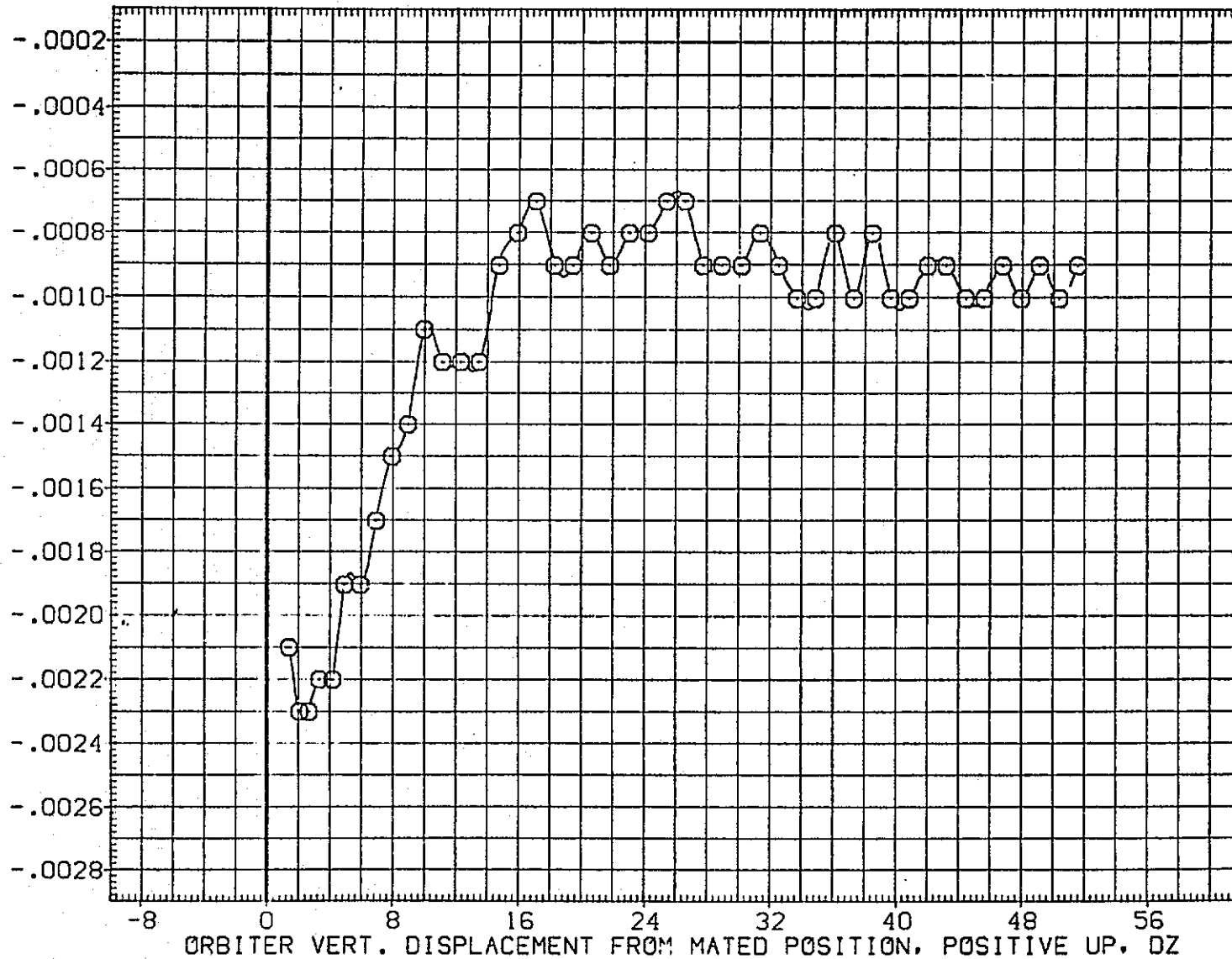


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DX	SREF	IN.	IN.
○	.605	2.000	.000	.000	.000	5500.0000	327.7800	2348.0400
		-1.000	.000	.000	.000	1339.9000	.0000	190.7500
		.000	6.000	.000	.000	.0125		
		BETA0	.000	DPHI	.000			

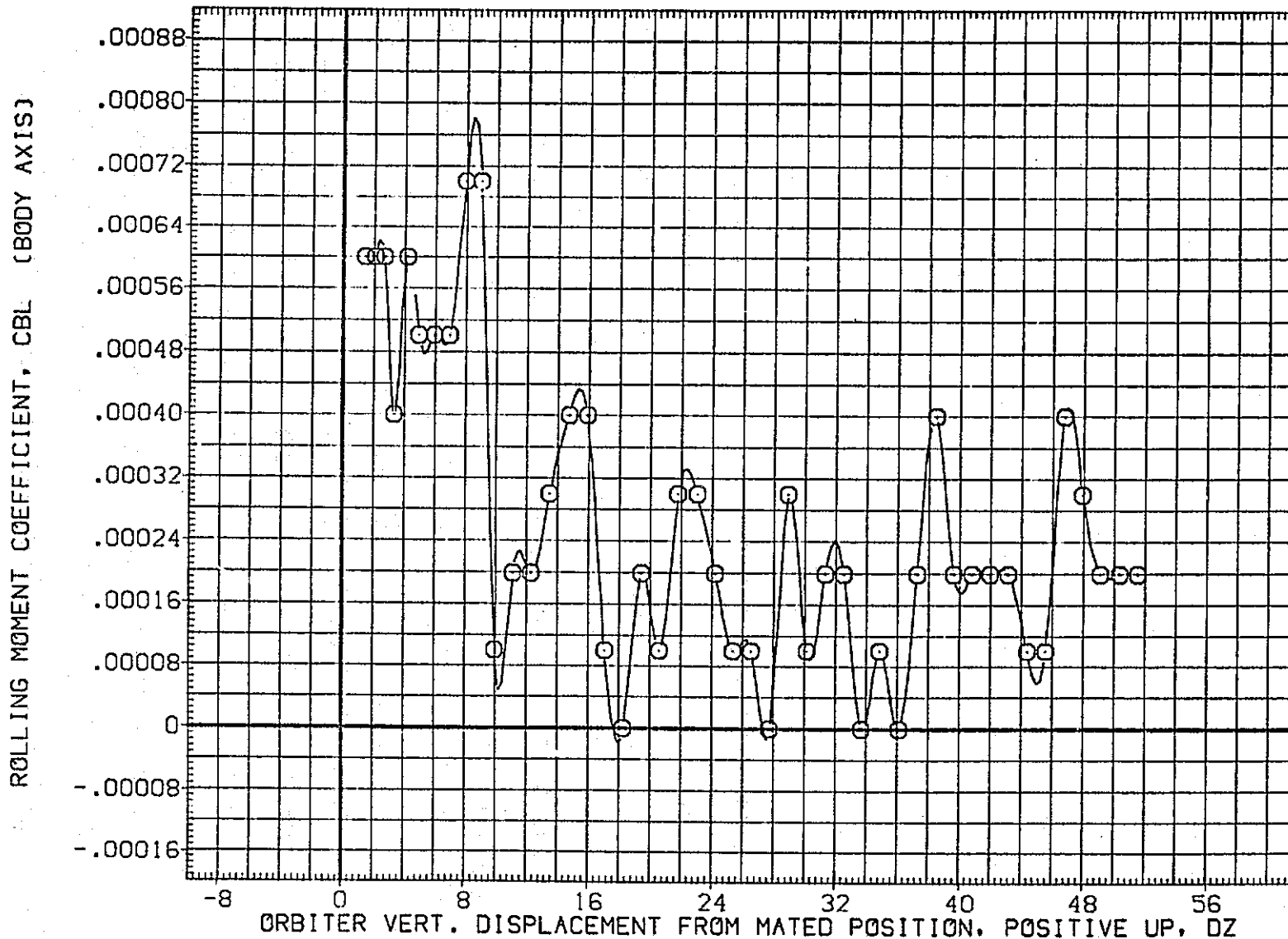


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE118)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAL	.000	SREF	5500.0000	SQ.FT.
		STAB	-1.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

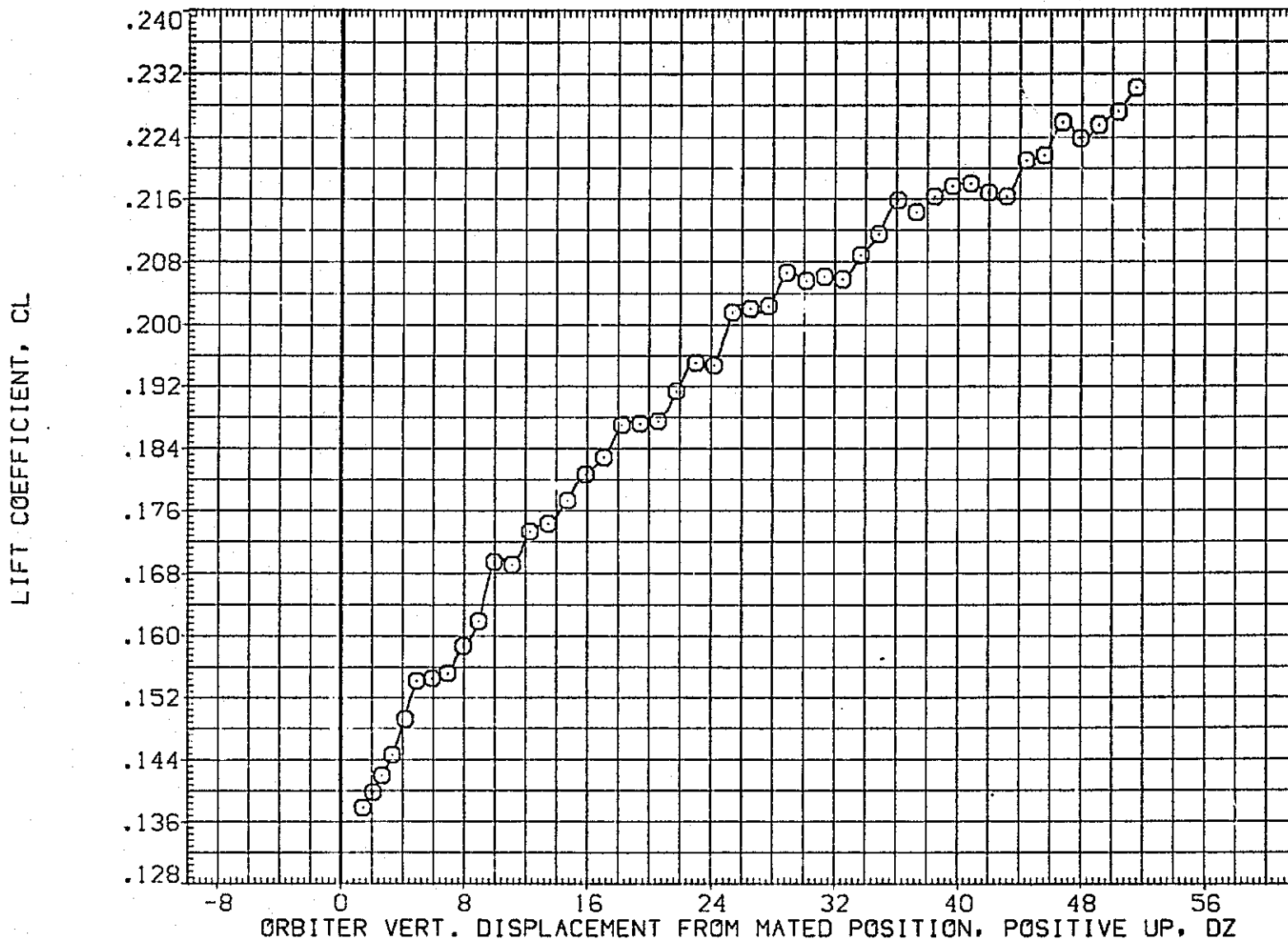


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	-1.000	PUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

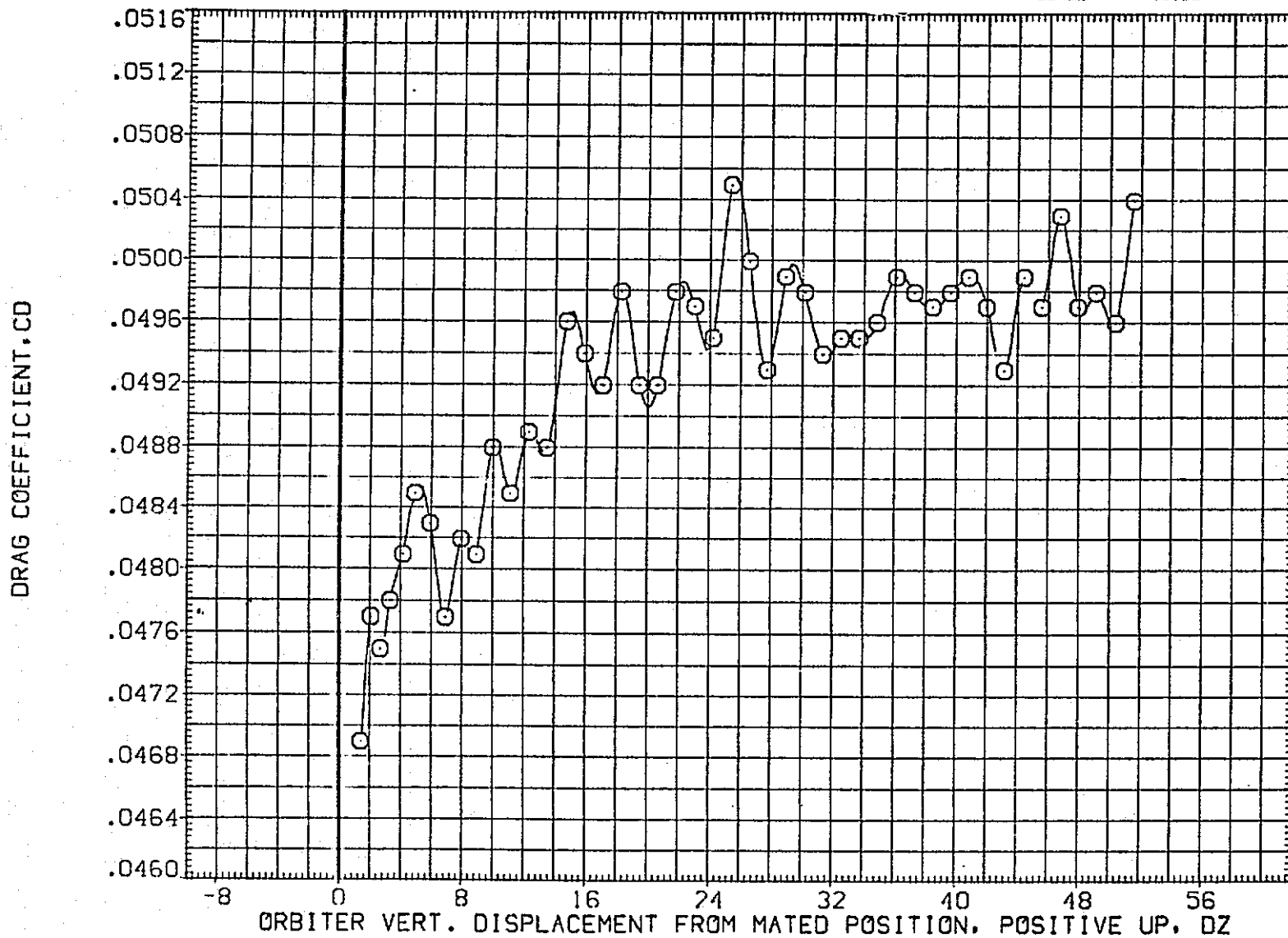


FIG.222 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE118

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE119)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	2.000	BETAC	.000
	STAB	5.000	RUDDER	10.000
	ELEVON	.000	DX	.000
	DY	.000	DRB	6.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

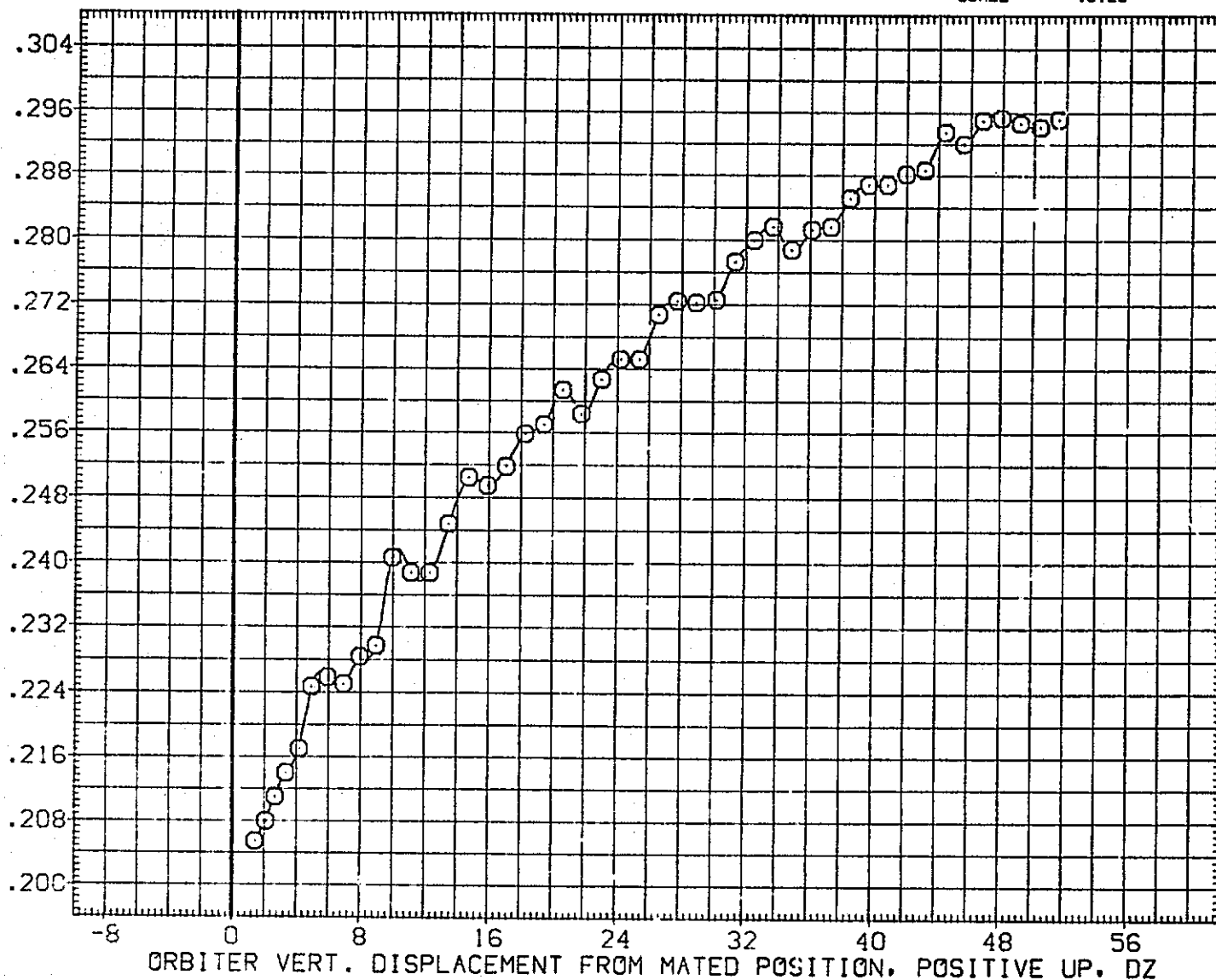


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	10.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

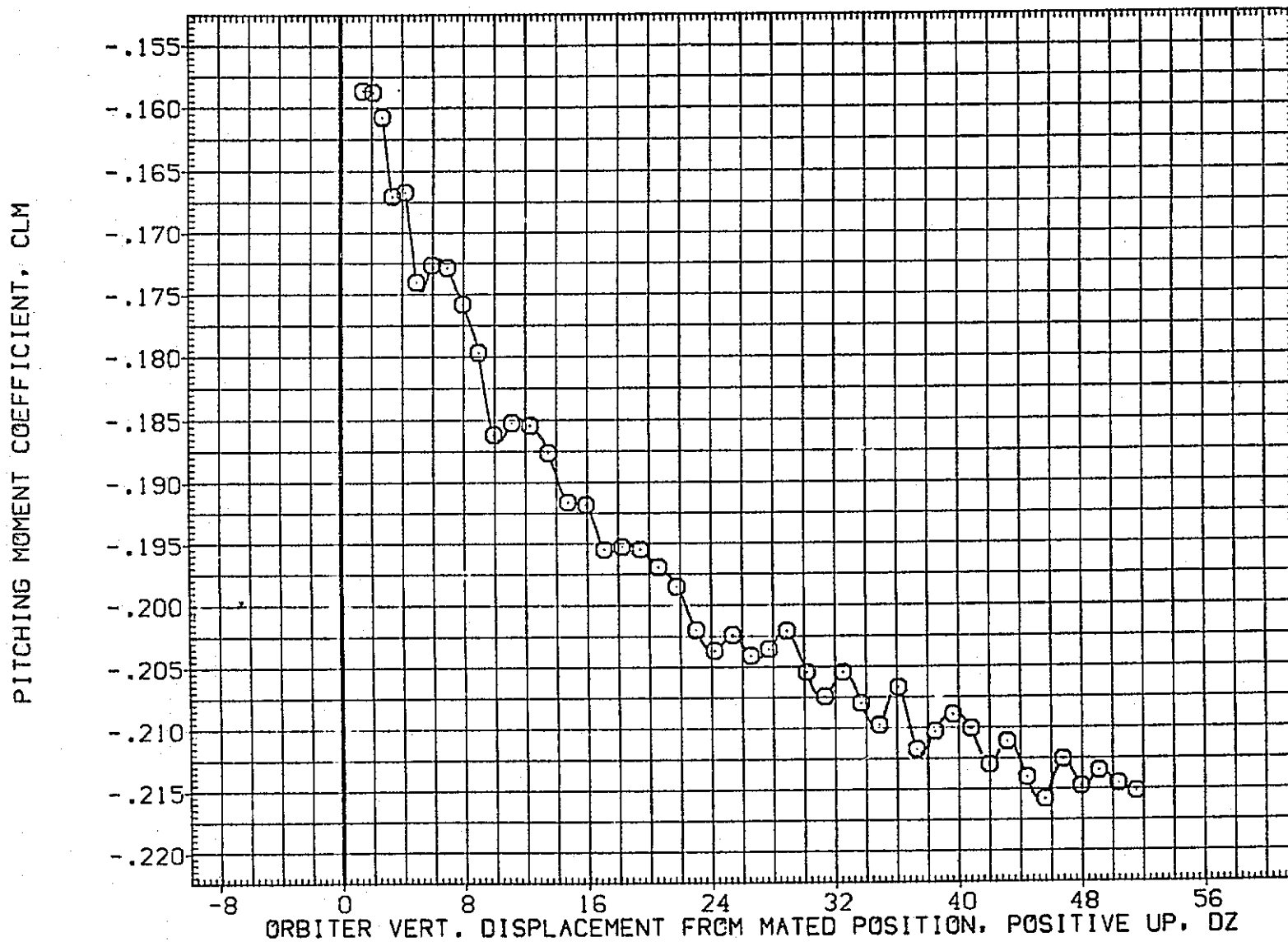


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE119)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAG	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	.000	OX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

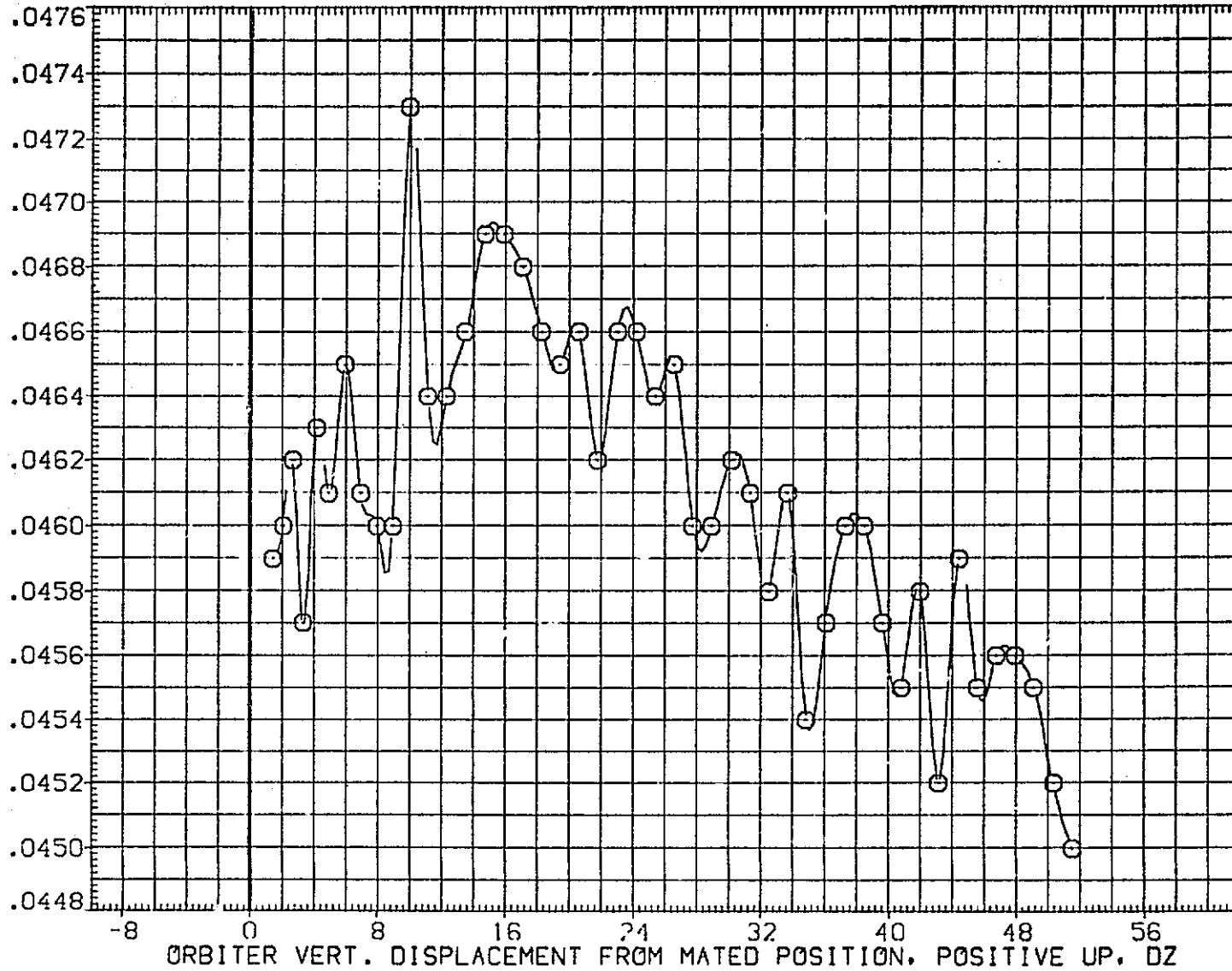


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION													
		ALPHAC	BETAC	BETAO	DPHI	SREF	LREF	BREF	XMYP	YMYP	ZMYP	SCALE	SQ.FT.	IN.	IN.	IN.	IN.	IN.	
O	.603	2.000	.000	.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	190.7500	.0125							
		STAB	5.000	RUDDER	10.000														
		ELEVON	.000	DX	.000														
		DY	.000	IORB	6.000														
		BETA0	.000	DPHI	.000														

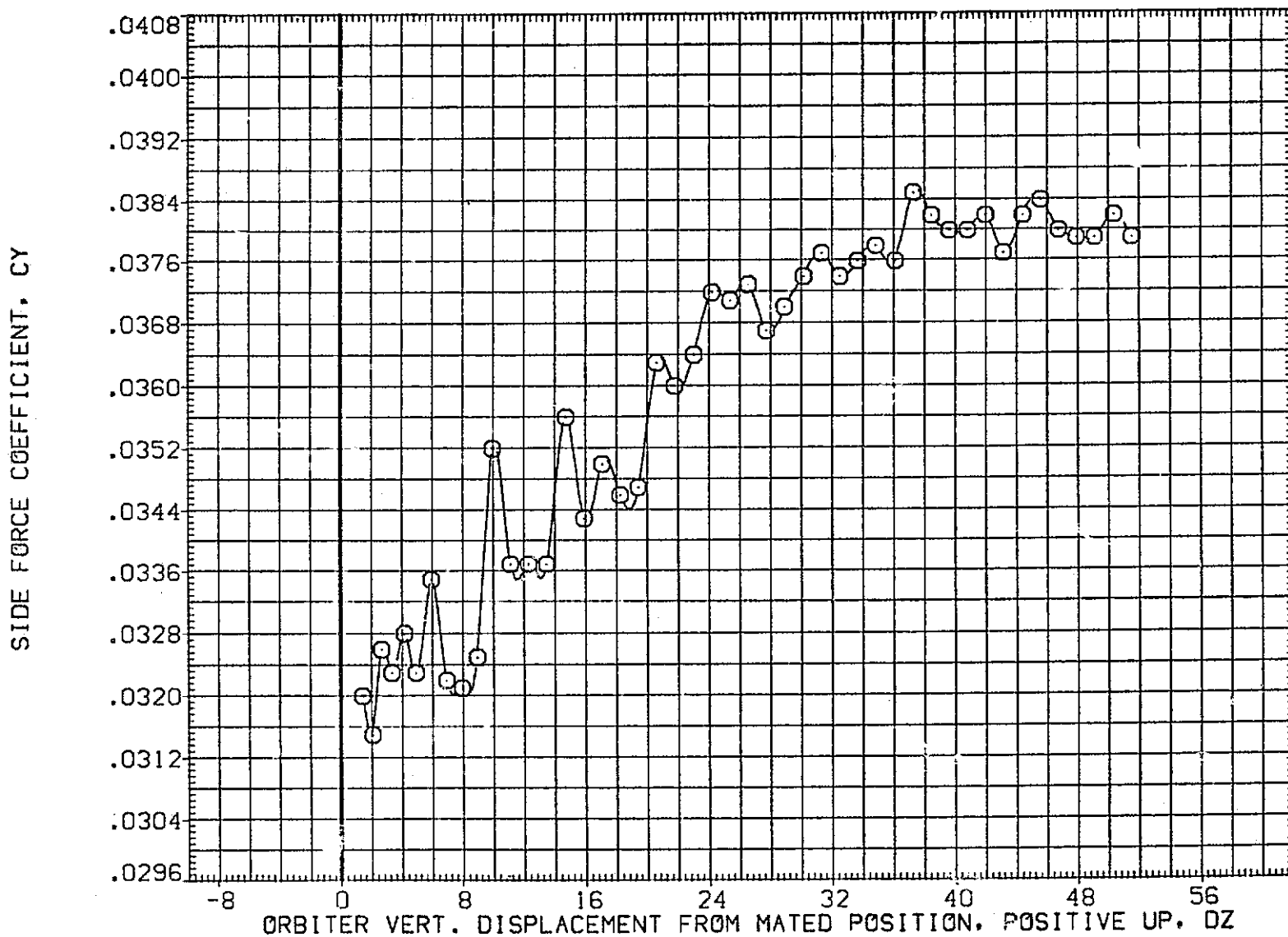


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE119)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

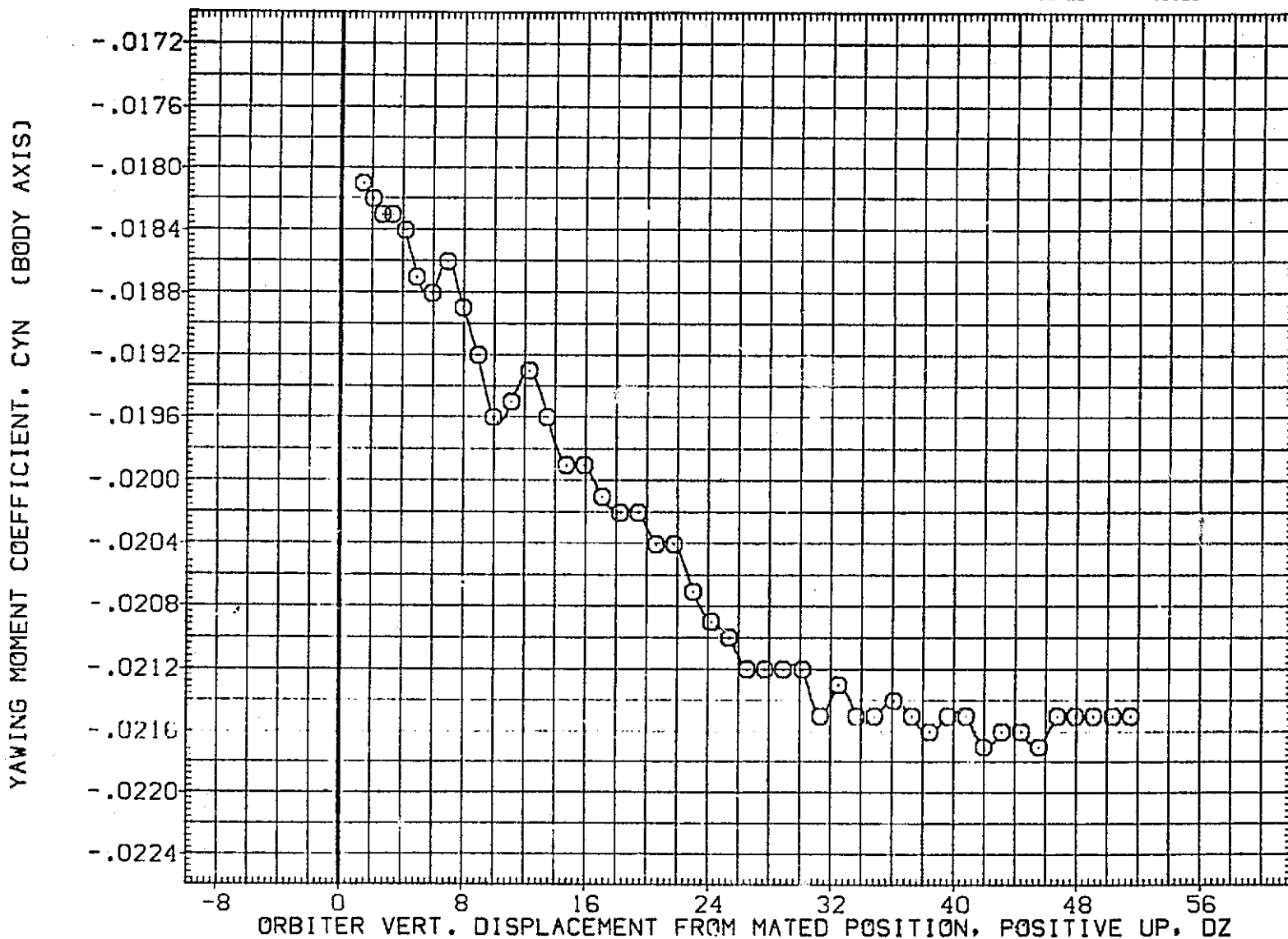


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	10.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

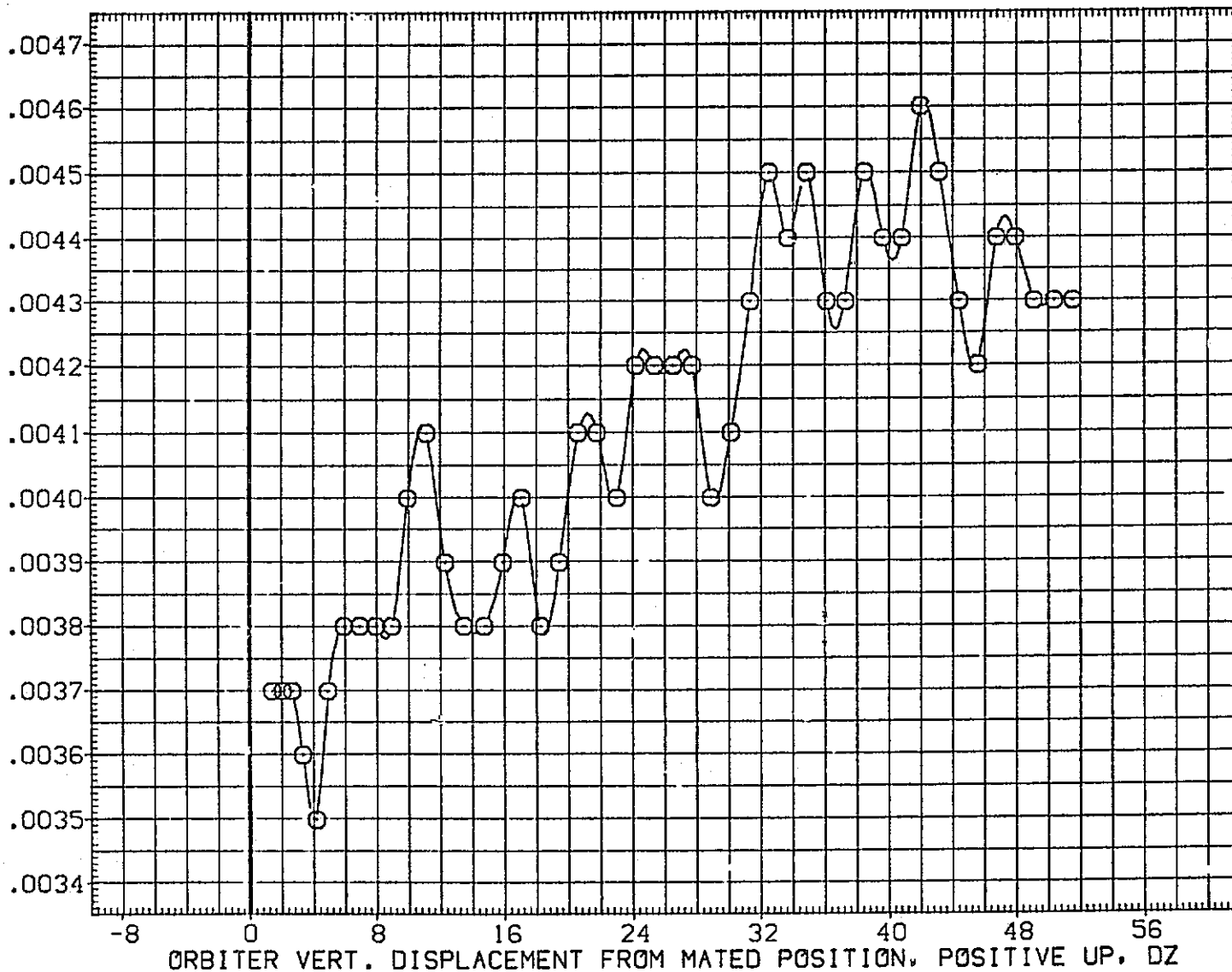


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE119)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	2.000	BETAC	.000
	STAB	5.000	RUDDER	10.000
	ELEVON	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

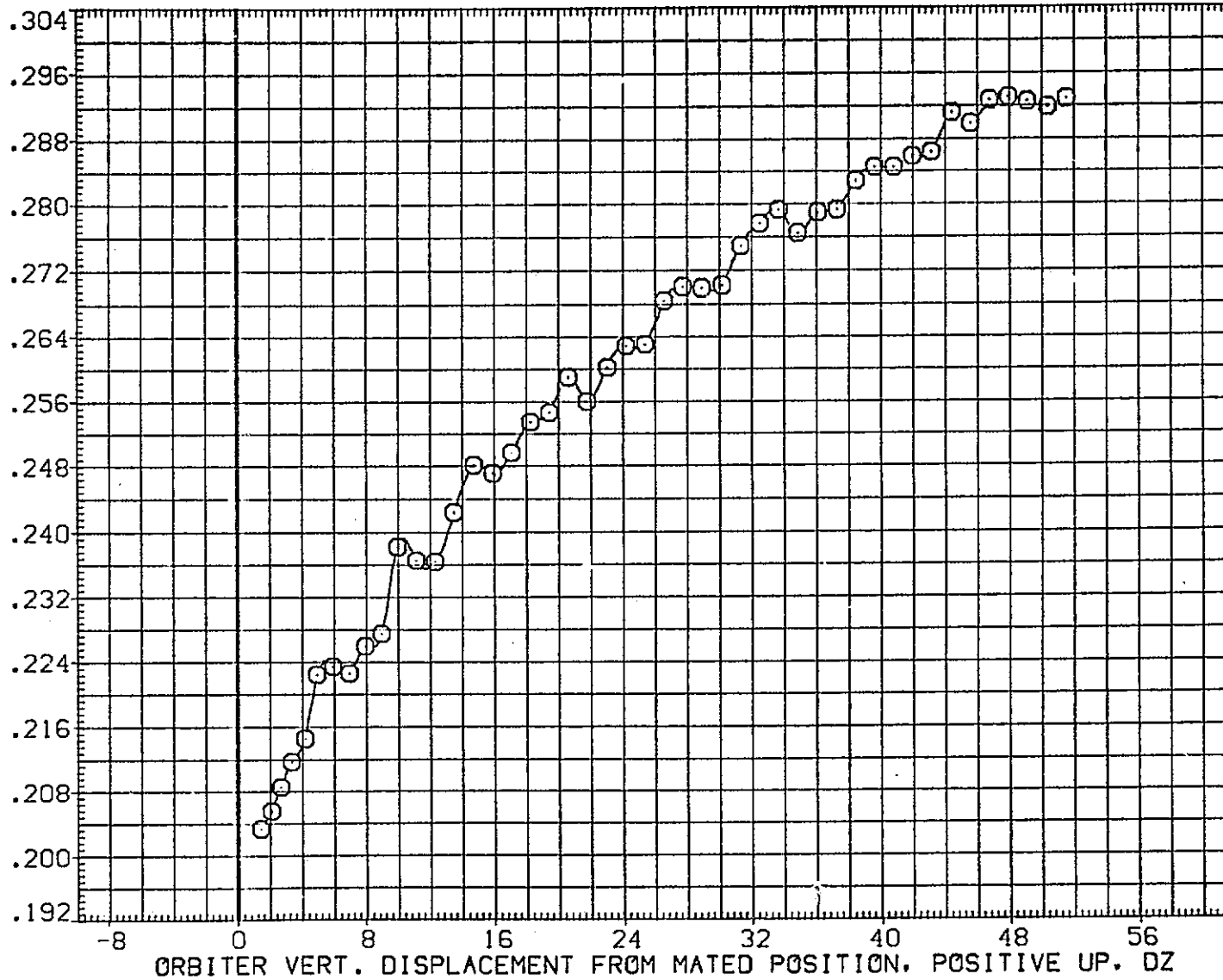


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	10.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

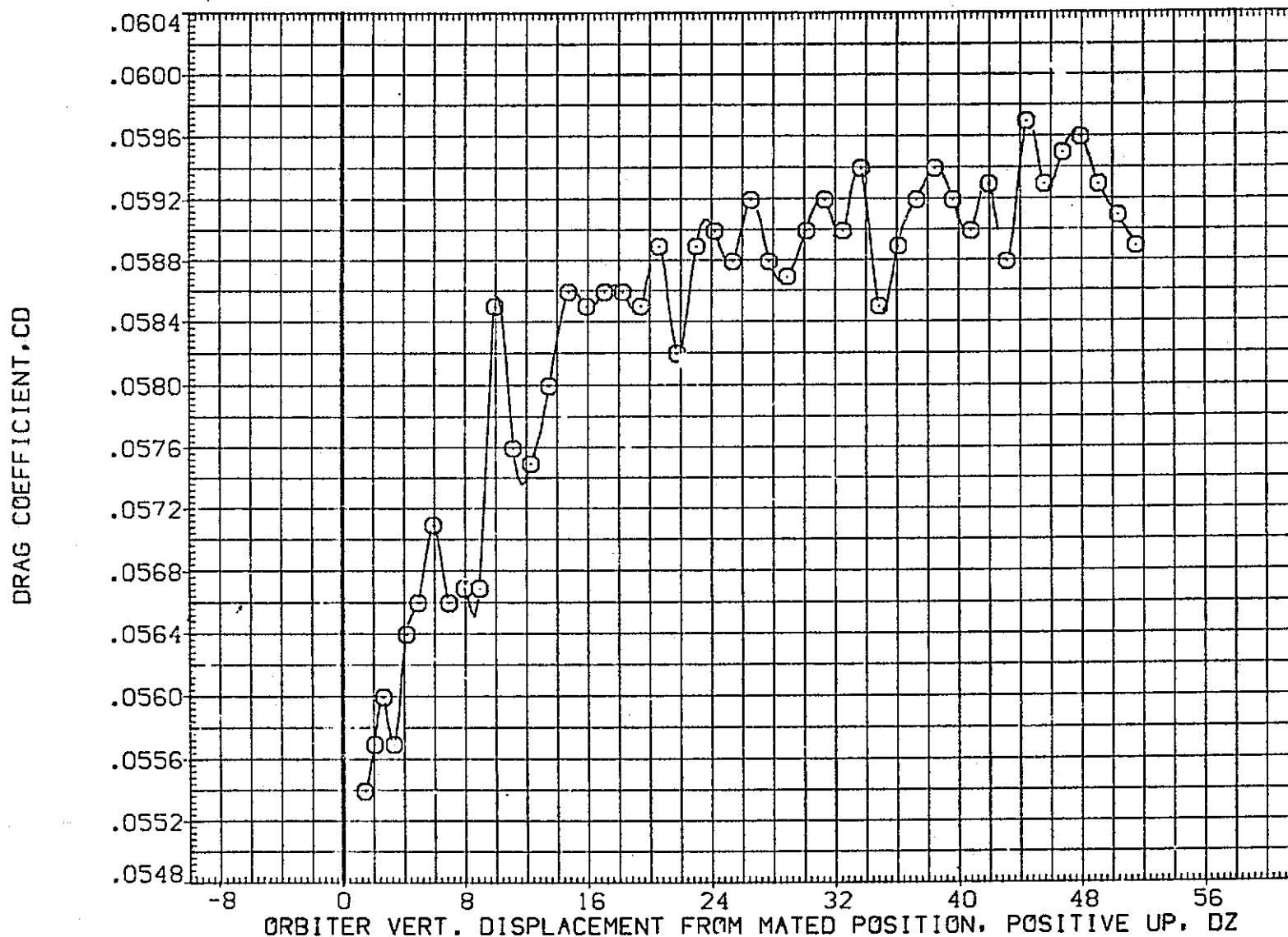


FIG.223 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=0, BETA0=0, RFE119

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE120)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

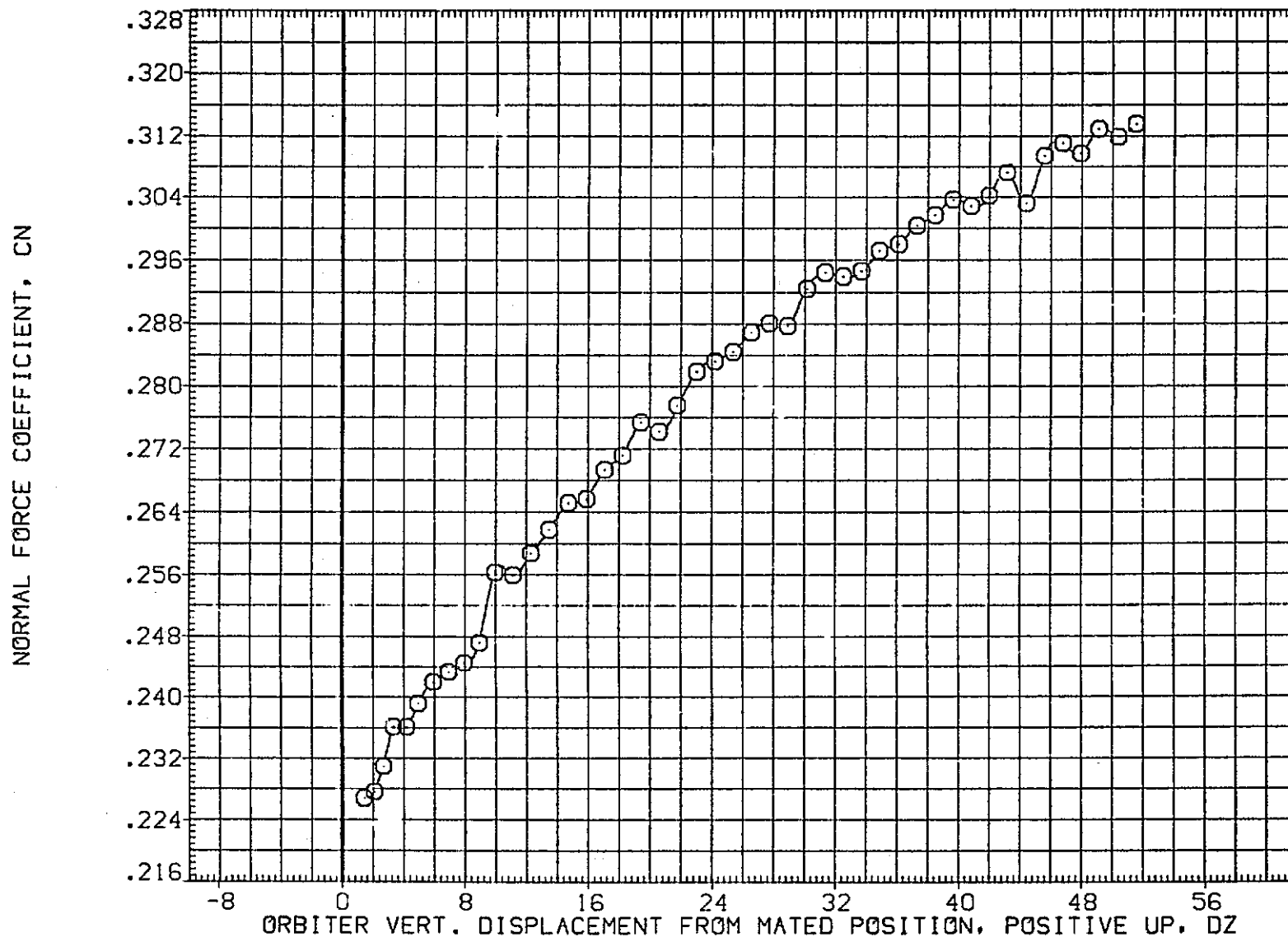


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

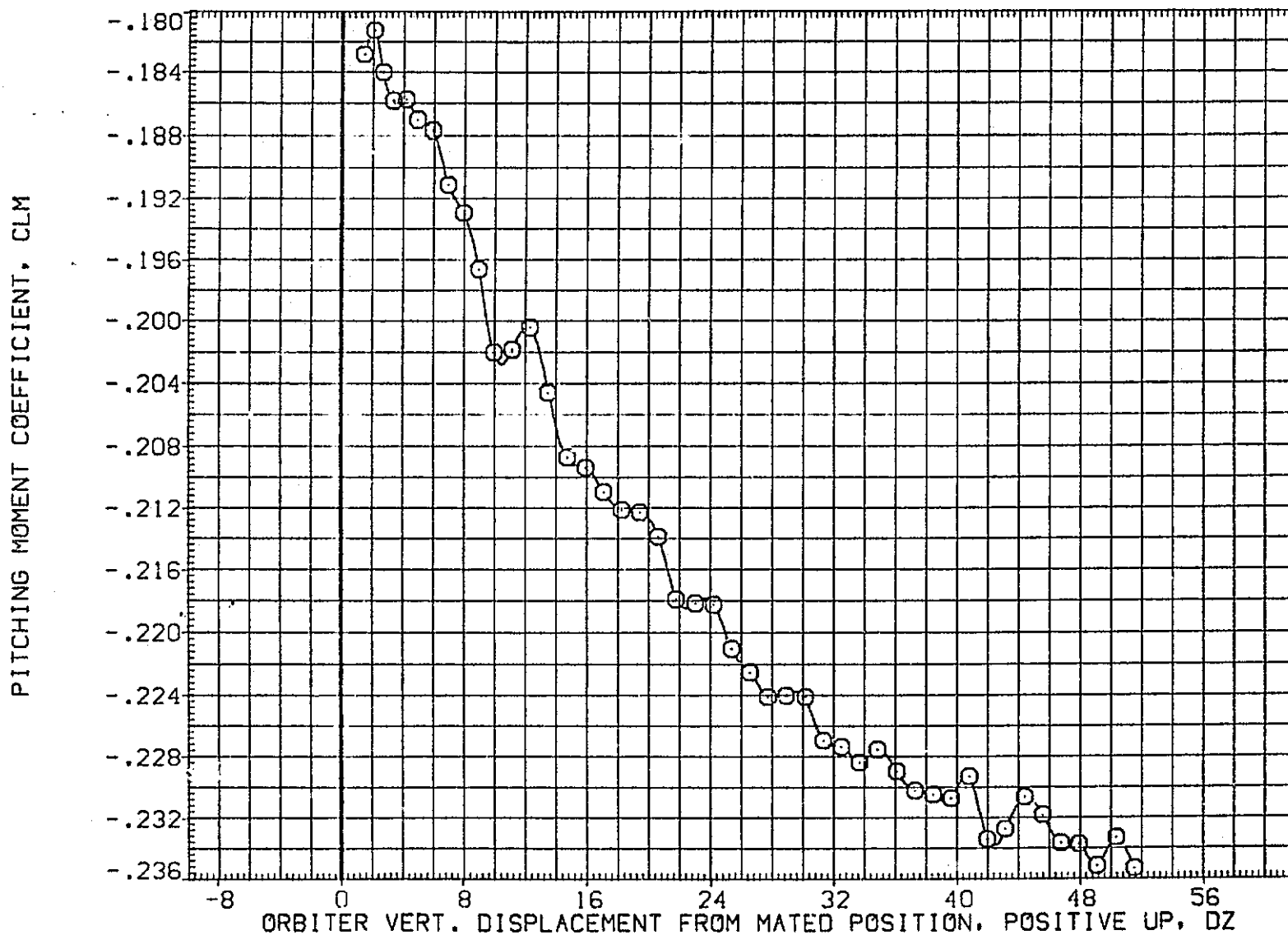


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE120)

SYMBOL
○

MACH
.600

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	-5.000
STAB	5.000	RUDDER	.000
ELEVON	.000	DX	.000
DY	.000	IORB	6.000
BETA0	-5.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

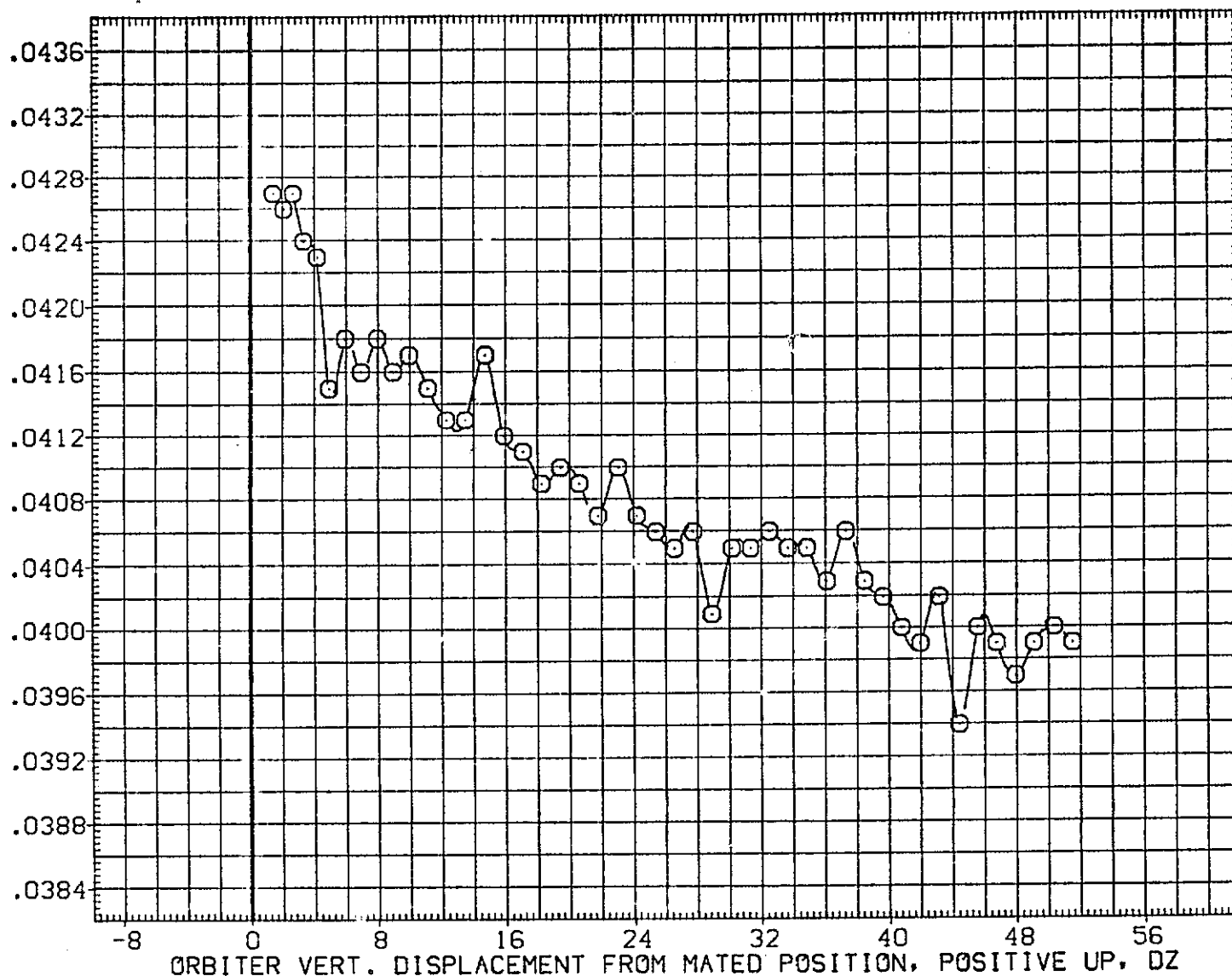


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN
BREF	2348.0400	IN
XM RP	1339.9000	IN, XC
YM RP	.0000	IN, YC
ZM RP	190.7500	IN, ZC
SCALE	.0125	

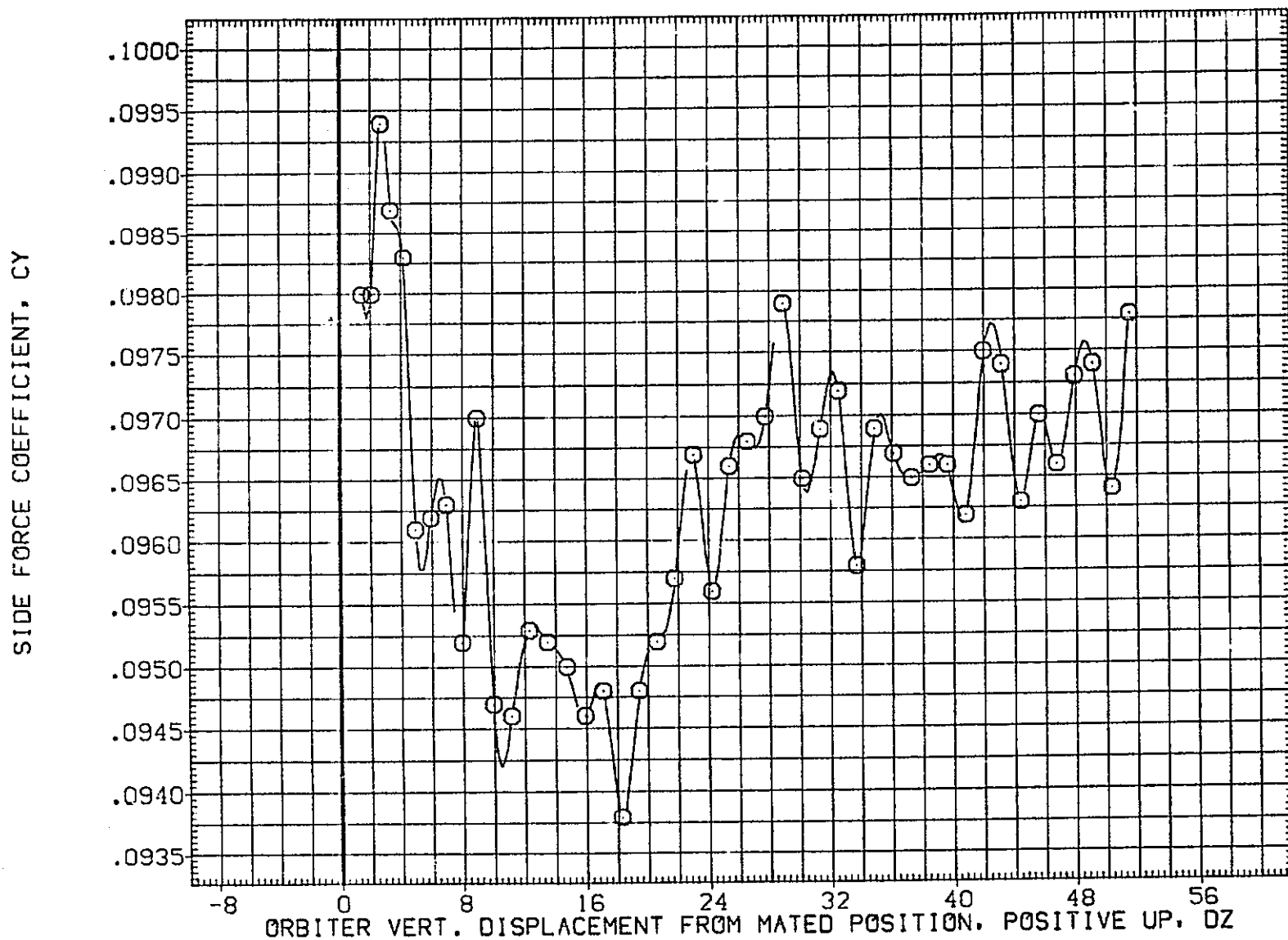


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE120)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		OY	.000	IORB	6.000
		BETA0	-5.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

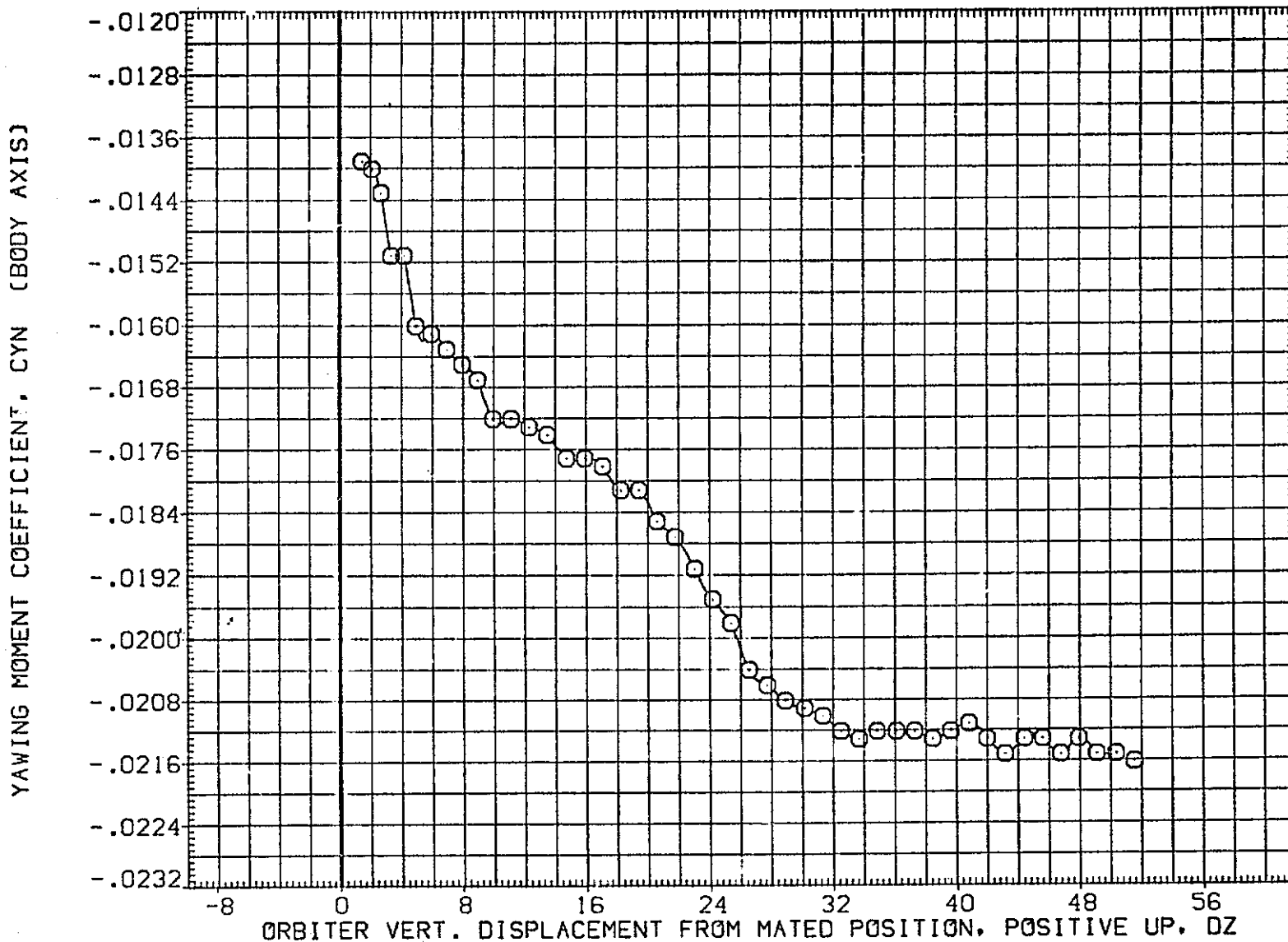


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	2.000	BETAC	-5.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	-5.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

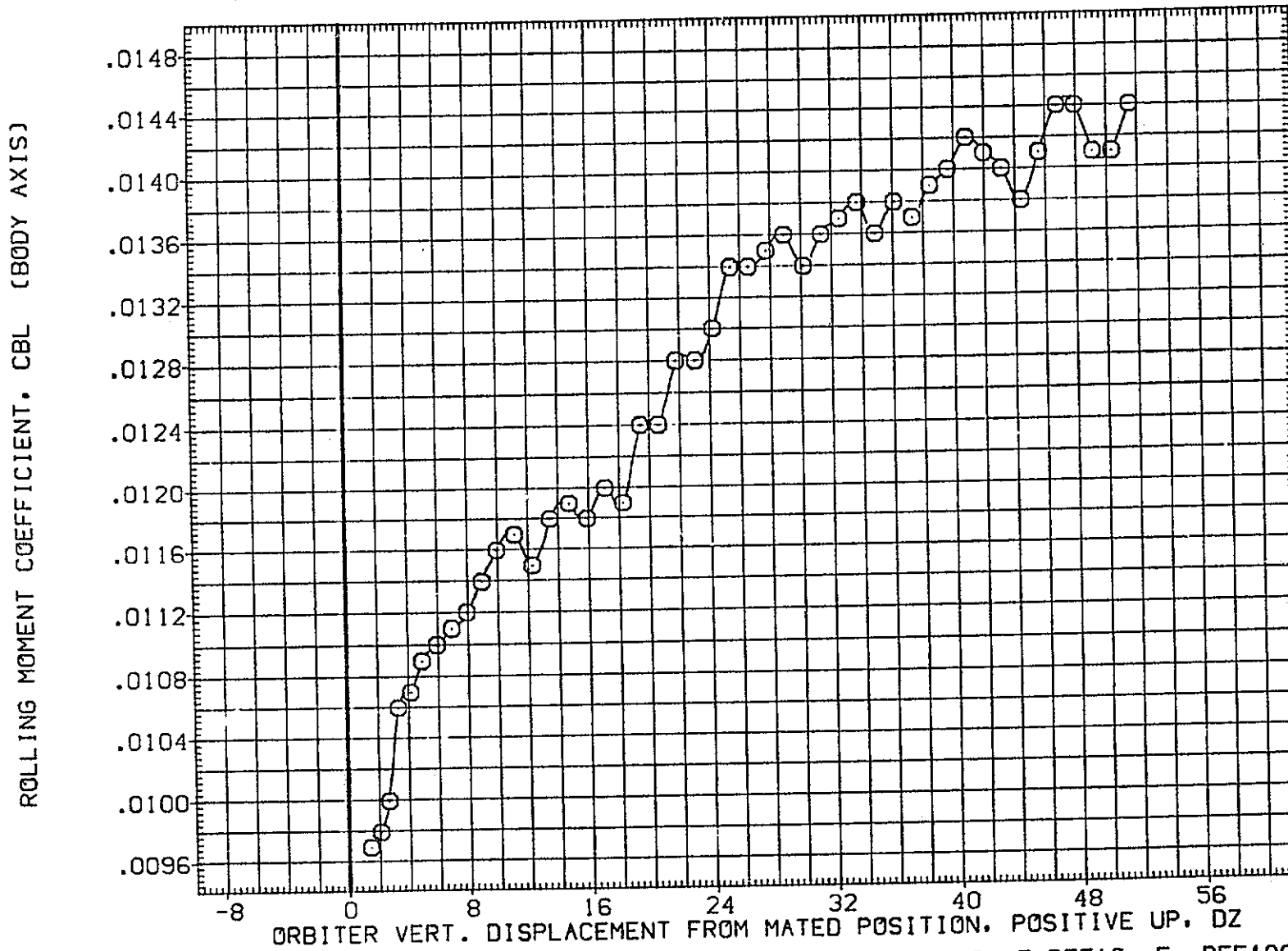


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE120)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	-5.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

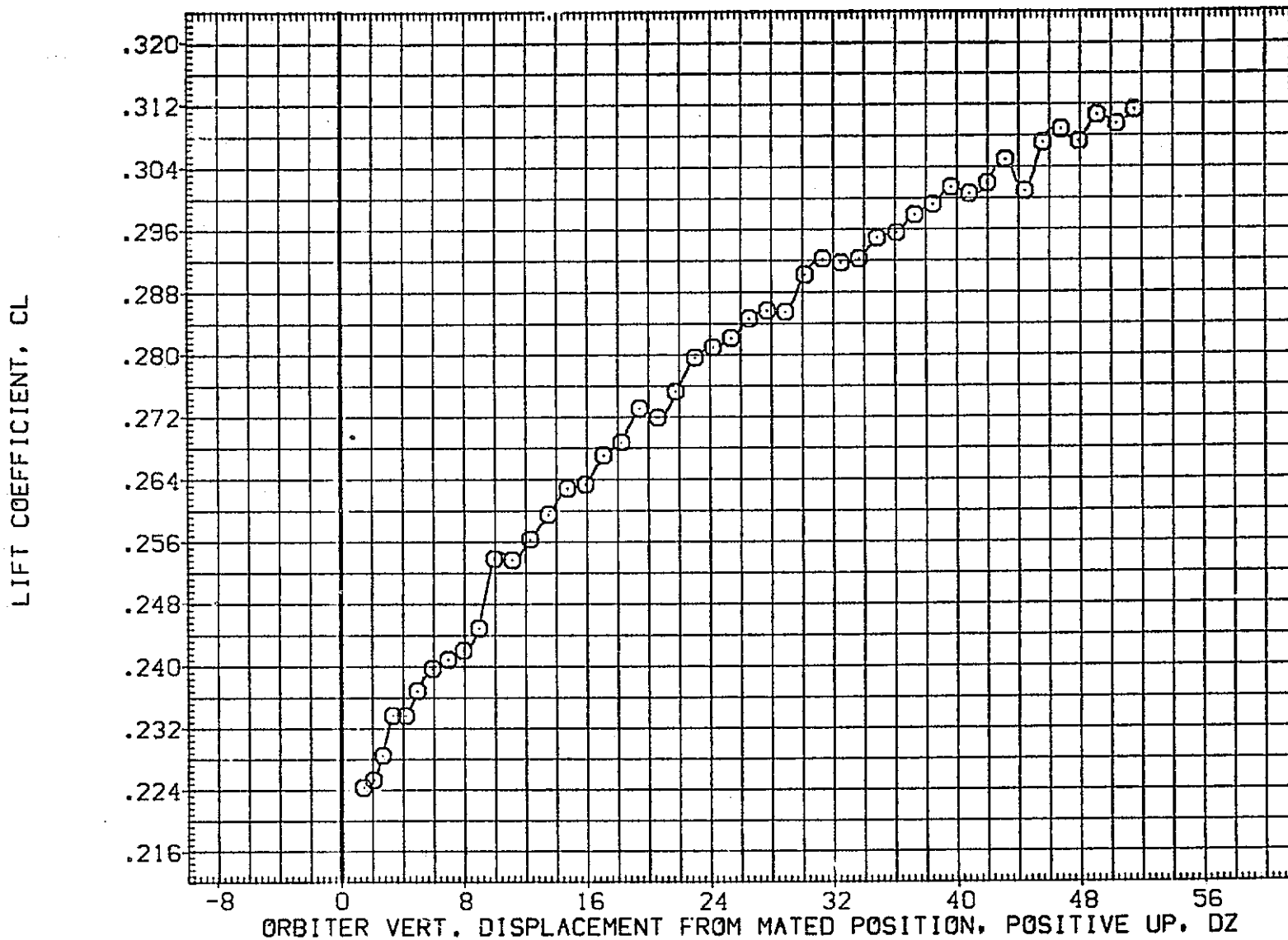


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

SYMBOL

○

MACH

.600

PARAMETRIC VALUES

ALPHAC	2.000	BETAC	-5.000
STAB	5.000	RUDDER	.000
ELEVON	.000	DX	.000
DY	.000	IORB	6.000
BETA0	-5.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

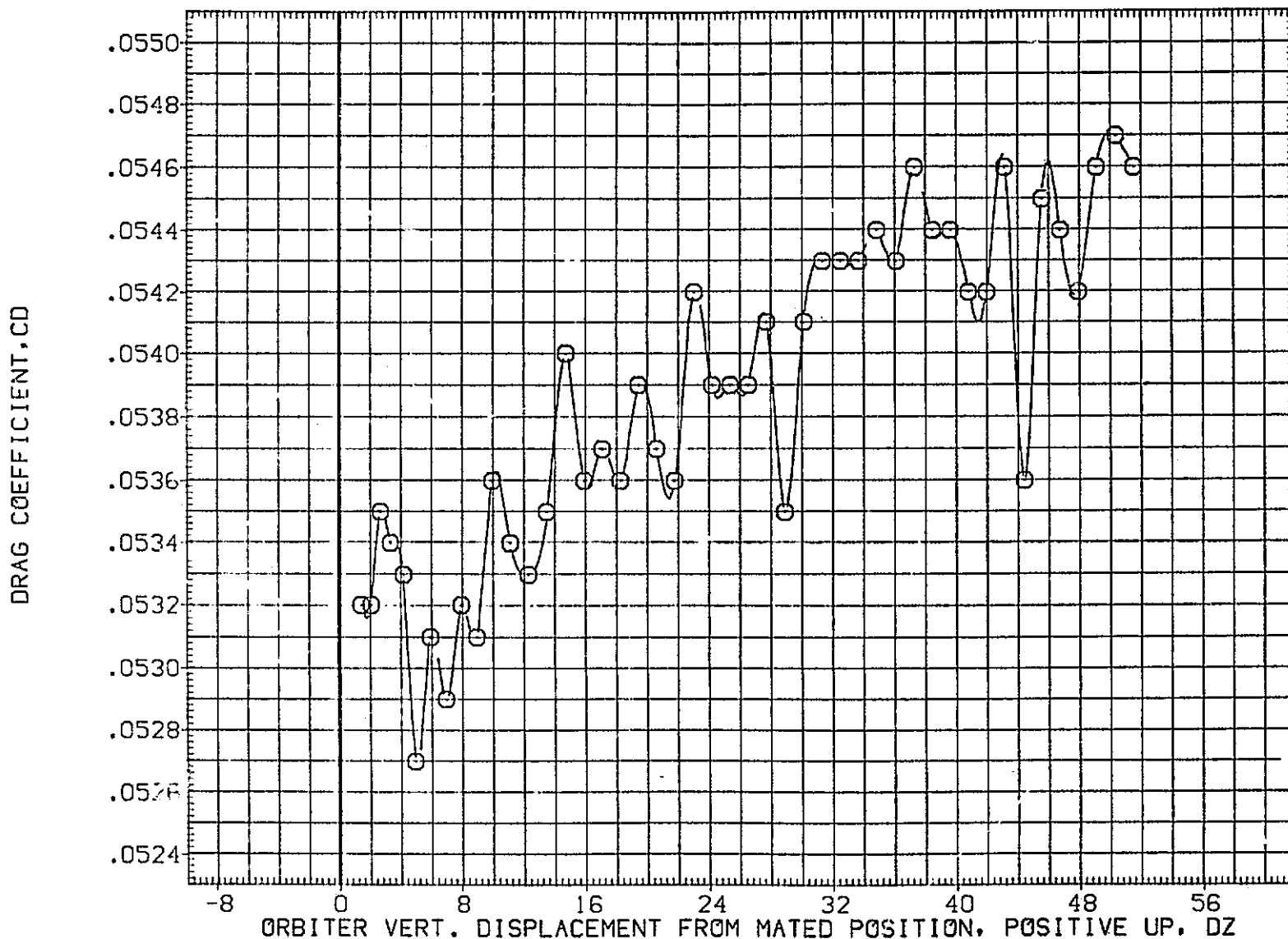


FIG.224 CARRIER DATA, ORB. PROXIMITY, ALPHAC=2, IORB=6, BETAC=-5, BETA0=-5, RFE120

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE121)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

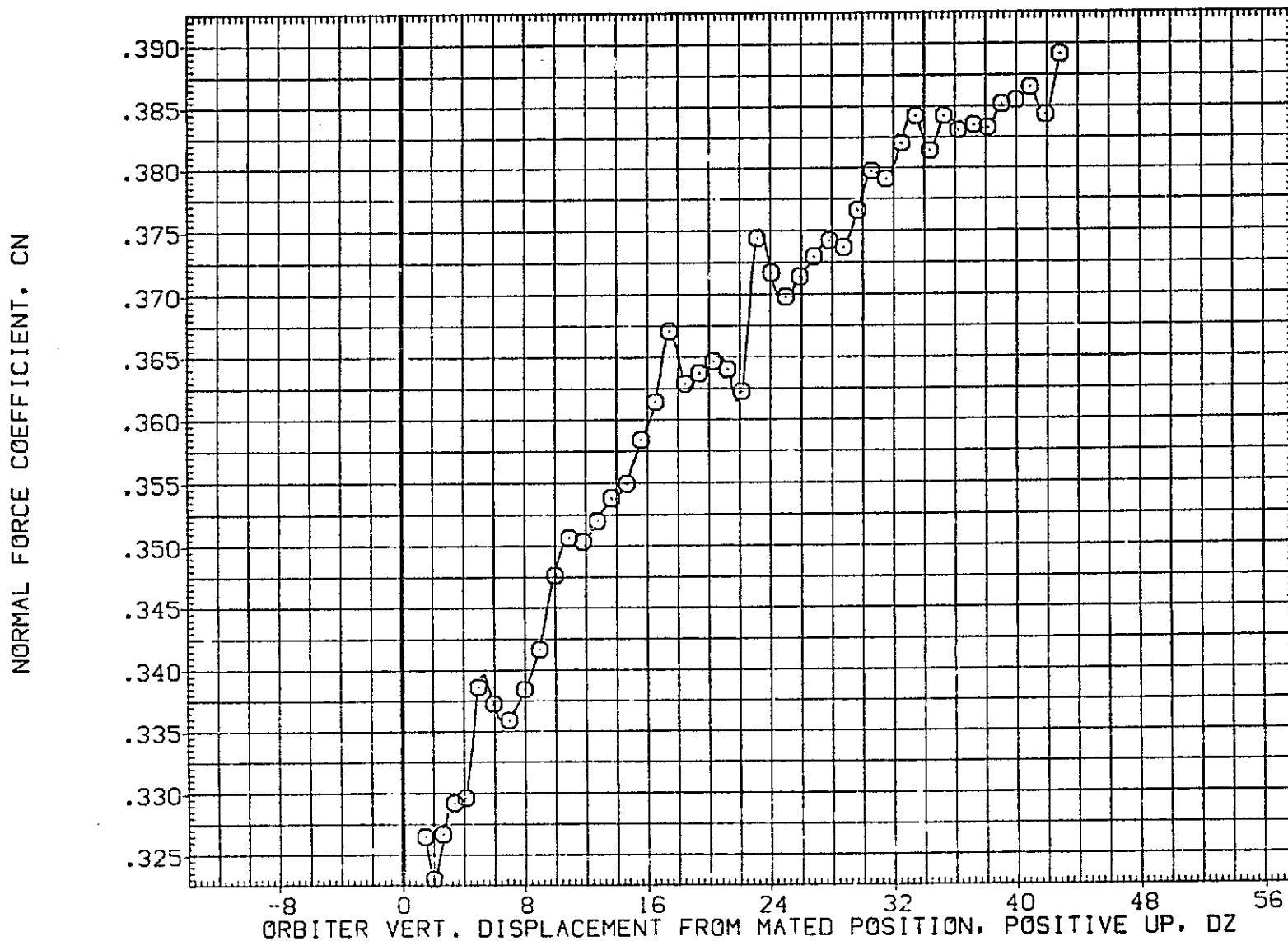


FIG.225 CARRIER DATA, OPB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		OY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

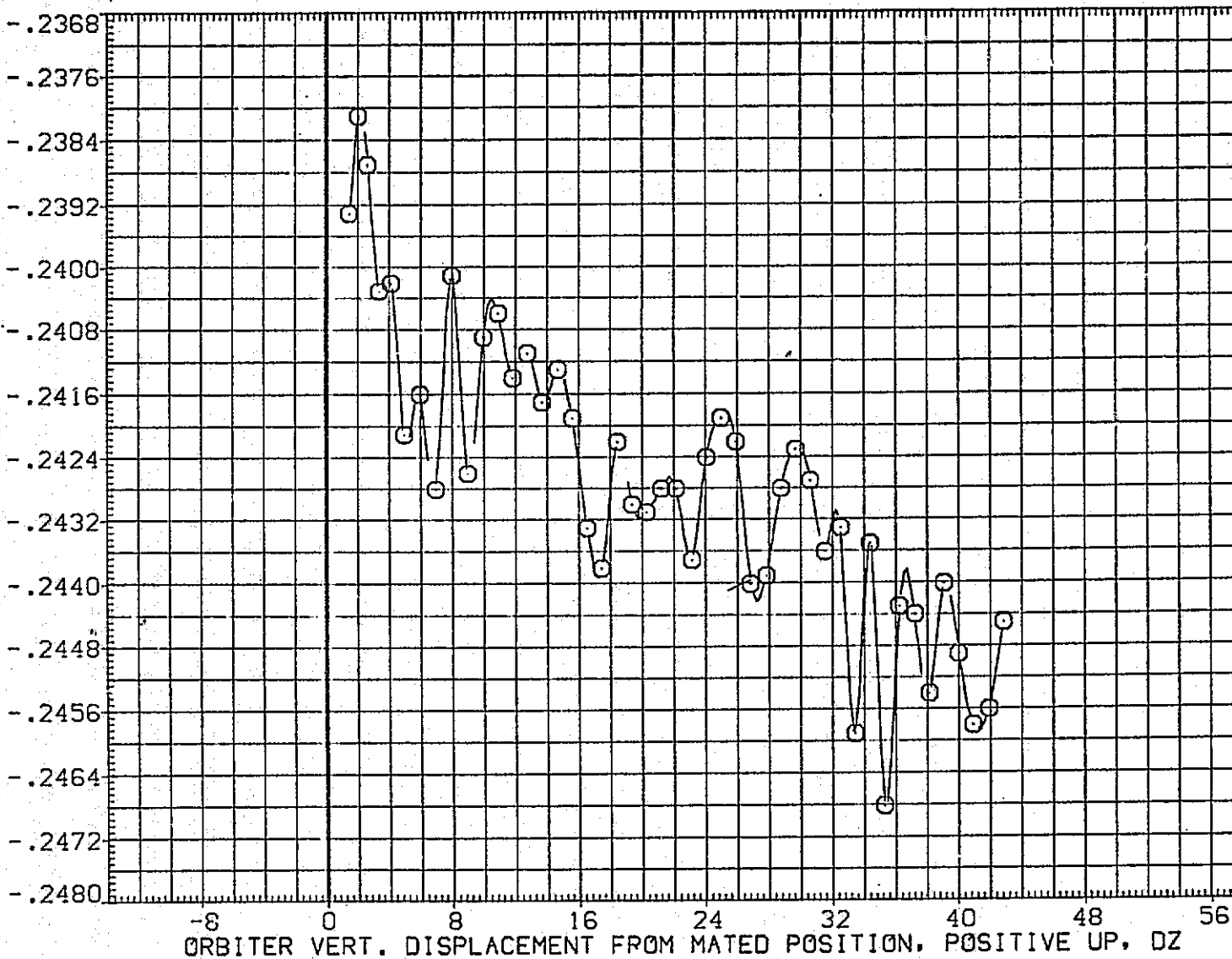


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE121)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.803	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

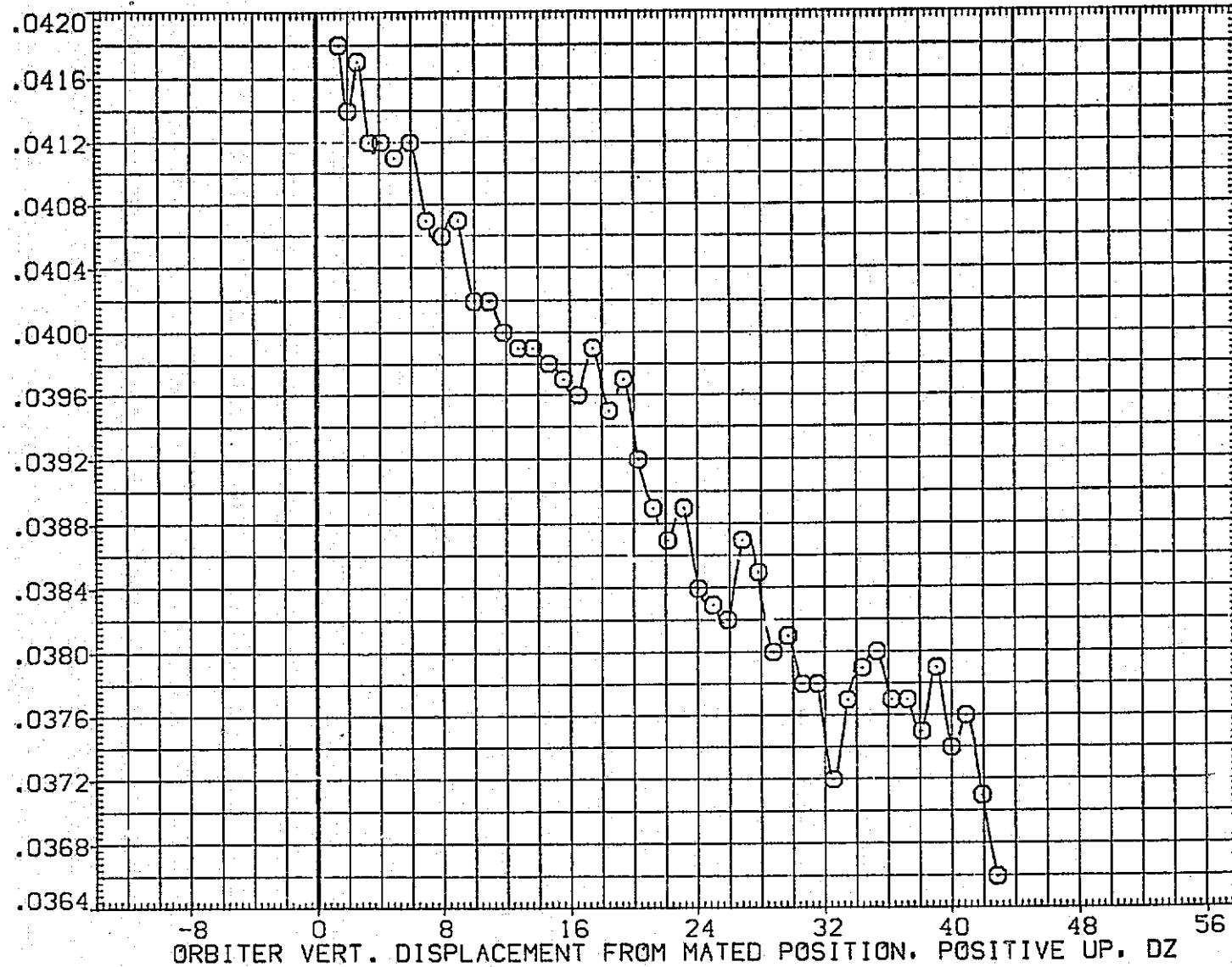


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

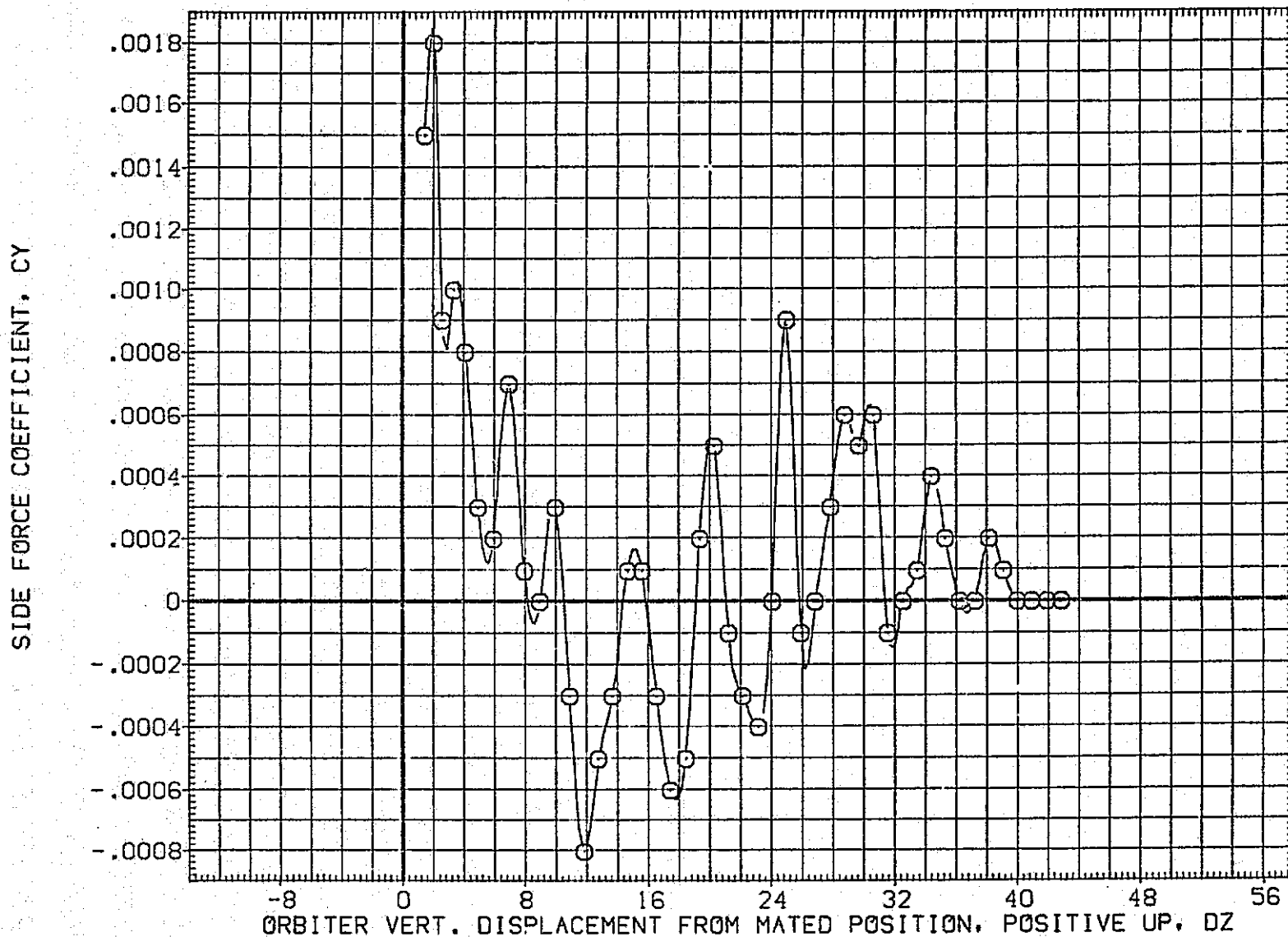


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE121)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

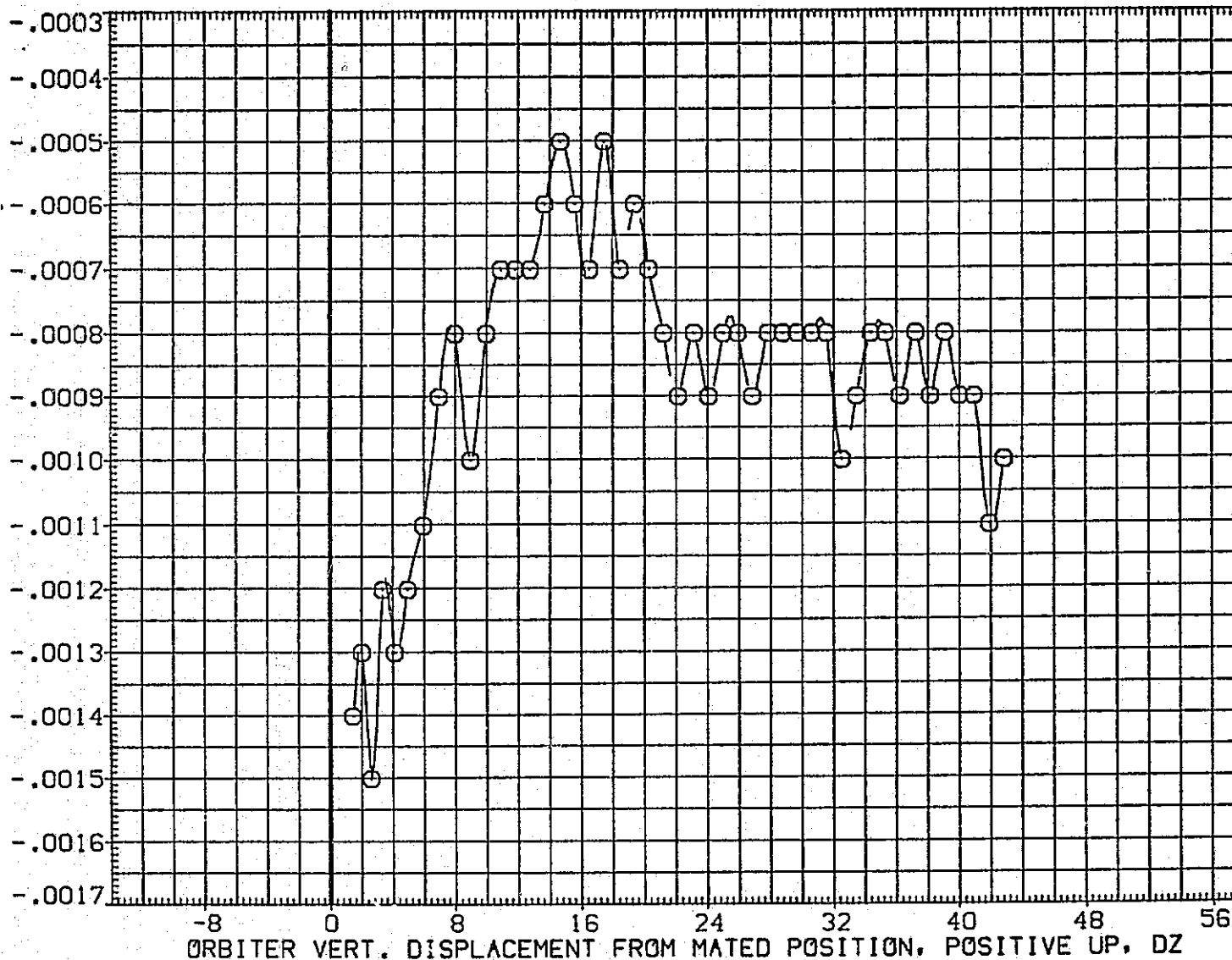


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

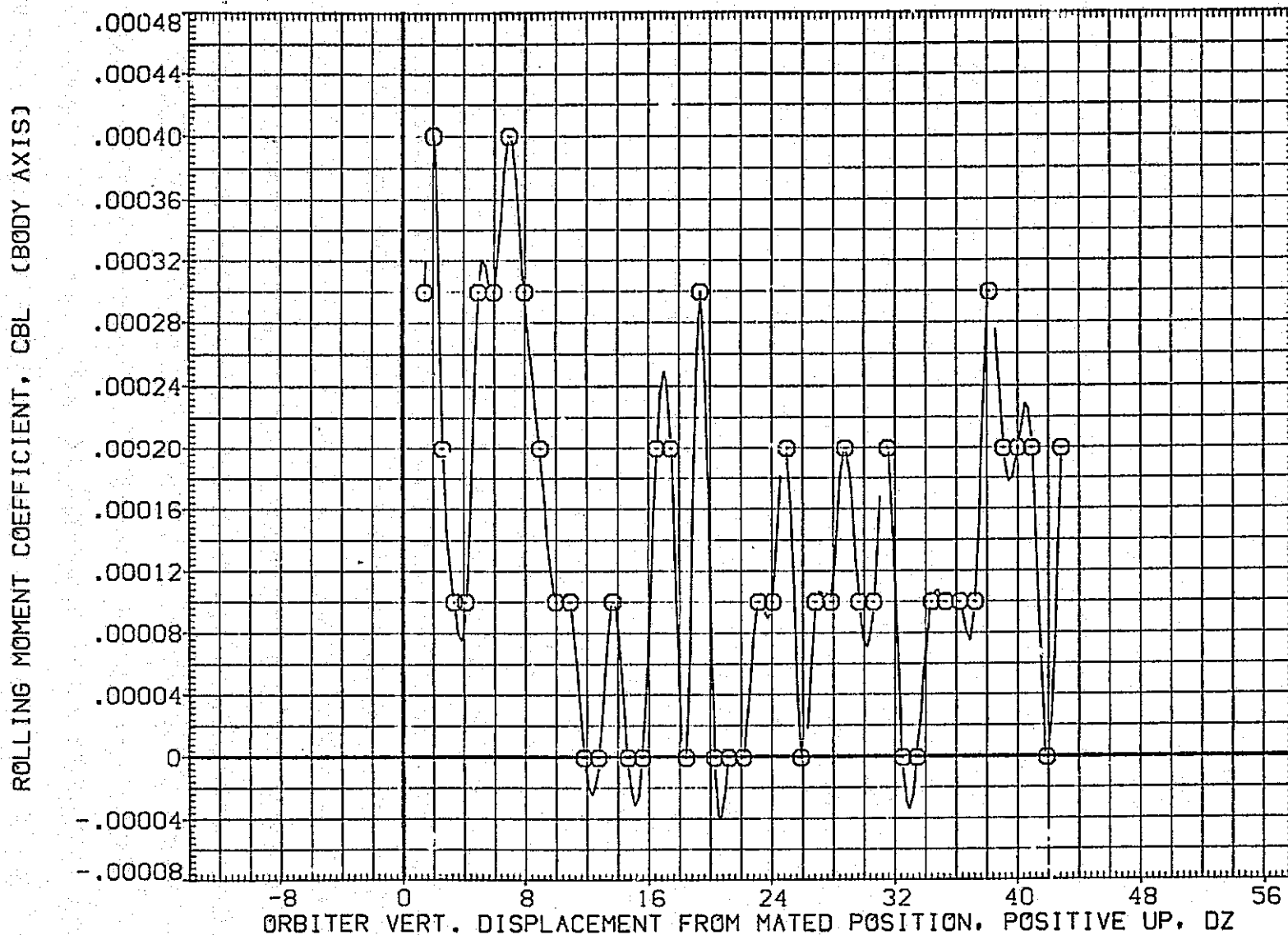


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE121)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

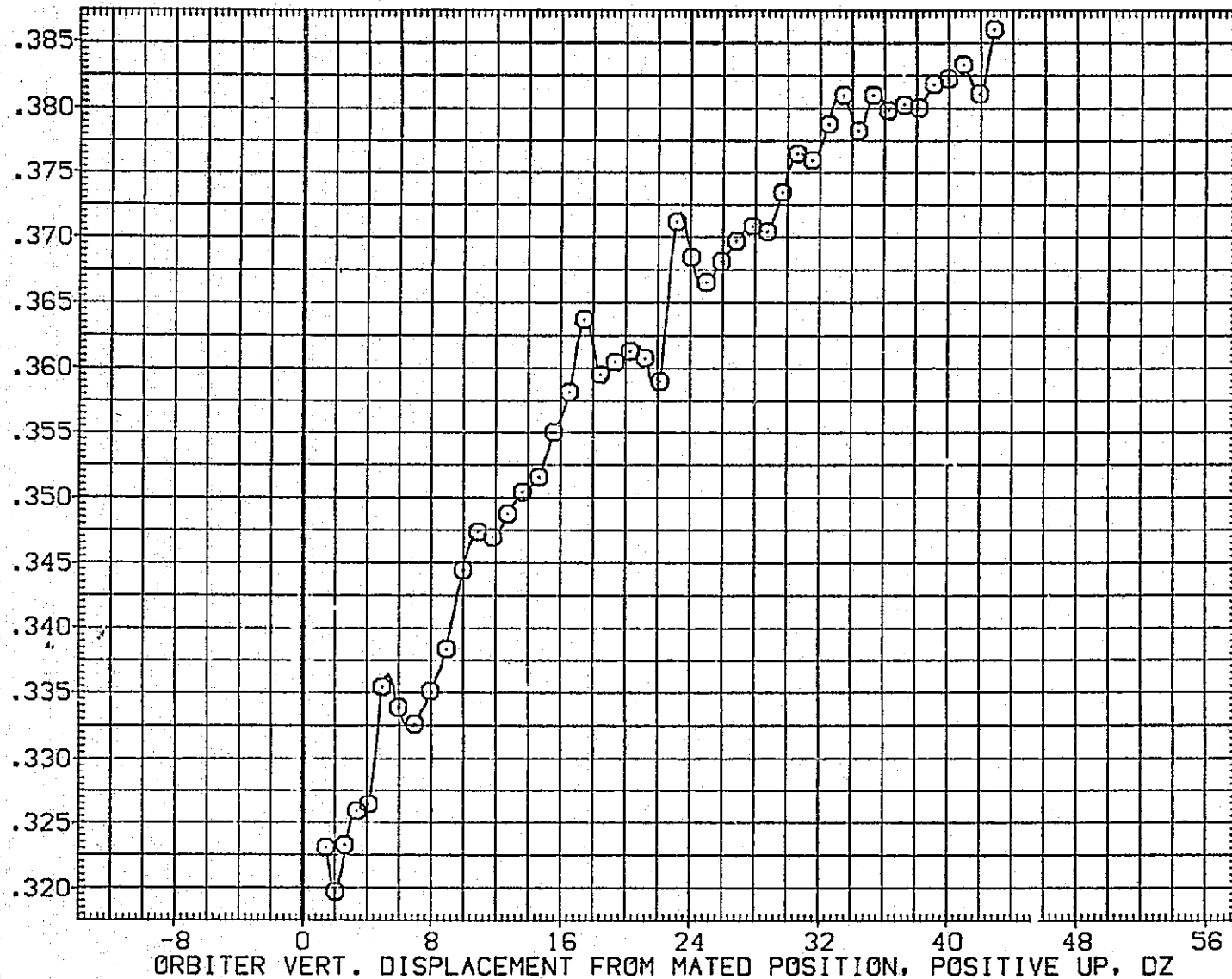


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

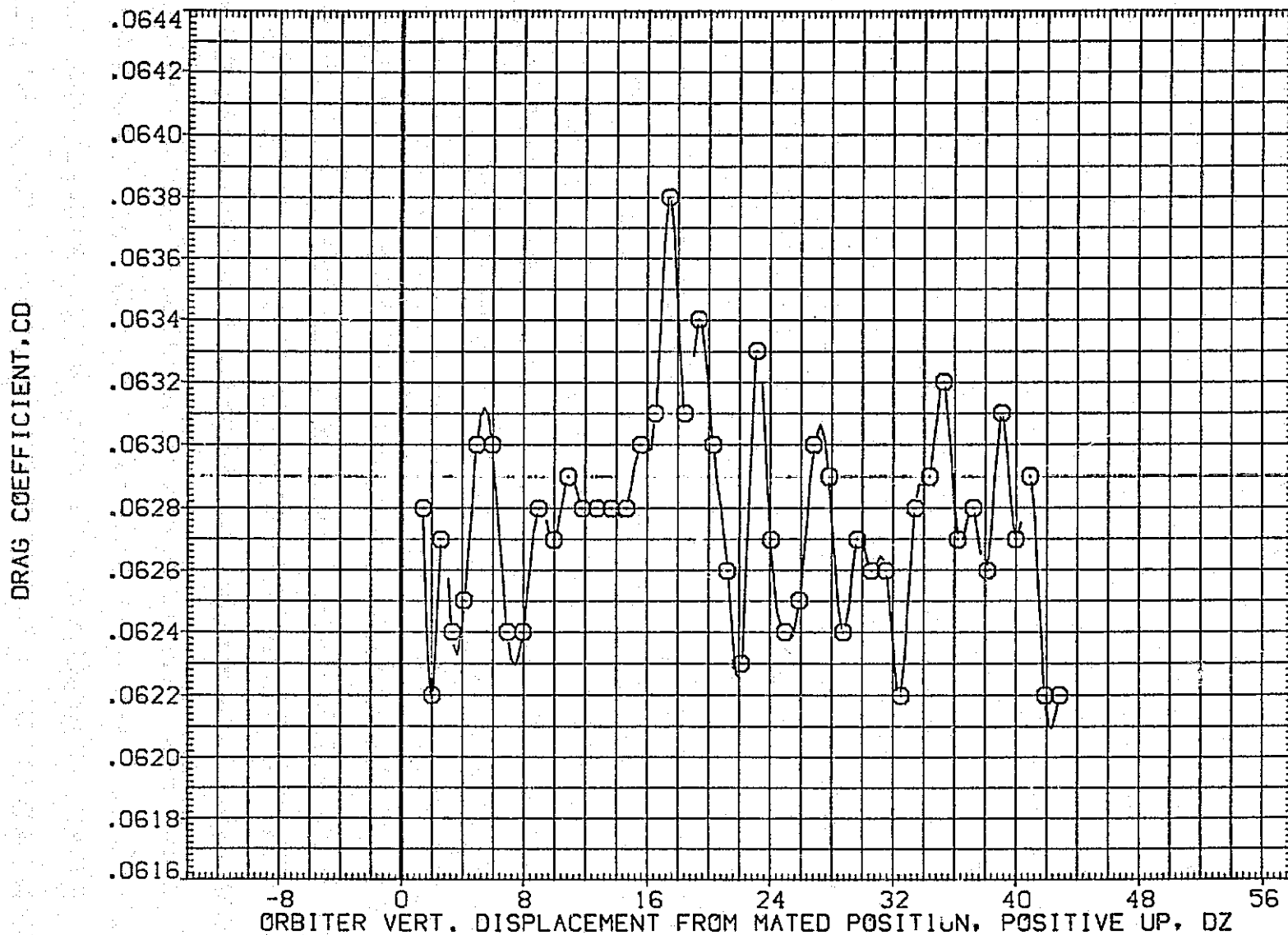


FIG.225 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=4, BETAC=0, BETA0=0, RFE121

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE122)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	4.000	BETAC	.000
	STAB	5.000	RUDDER	.000
	ELEVON	.000	DX	.000
	DY	.000	IORB	6.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

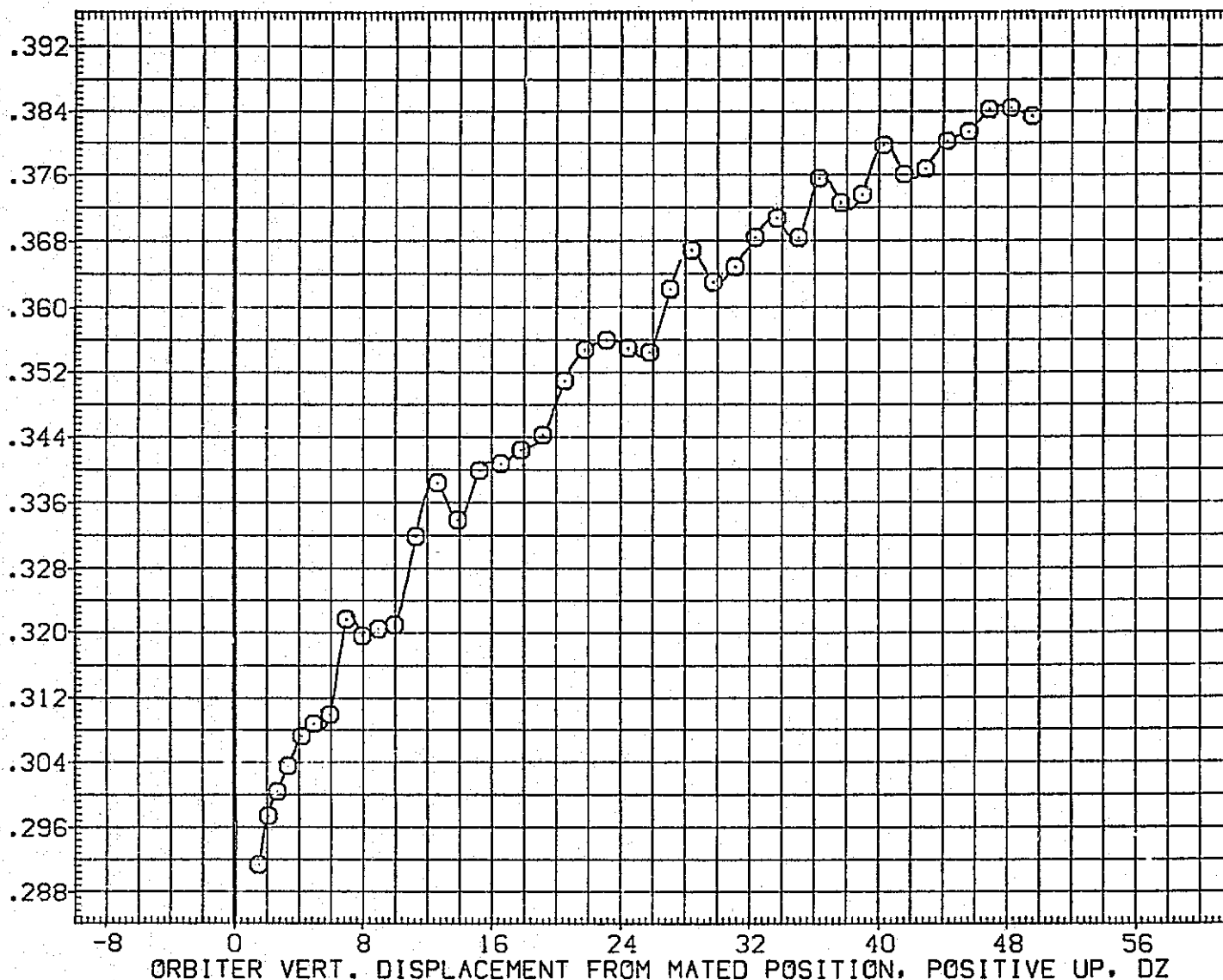


FIG.226 CARRIER DATA. ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

SYMBOL	MACH	PARAMETRIC VALUES			REFERENCE INFORMATION			
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SO.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XM RP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YM RP	.0000	IN. YC
						ZM RP	190.7500	IN. ZC
						SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

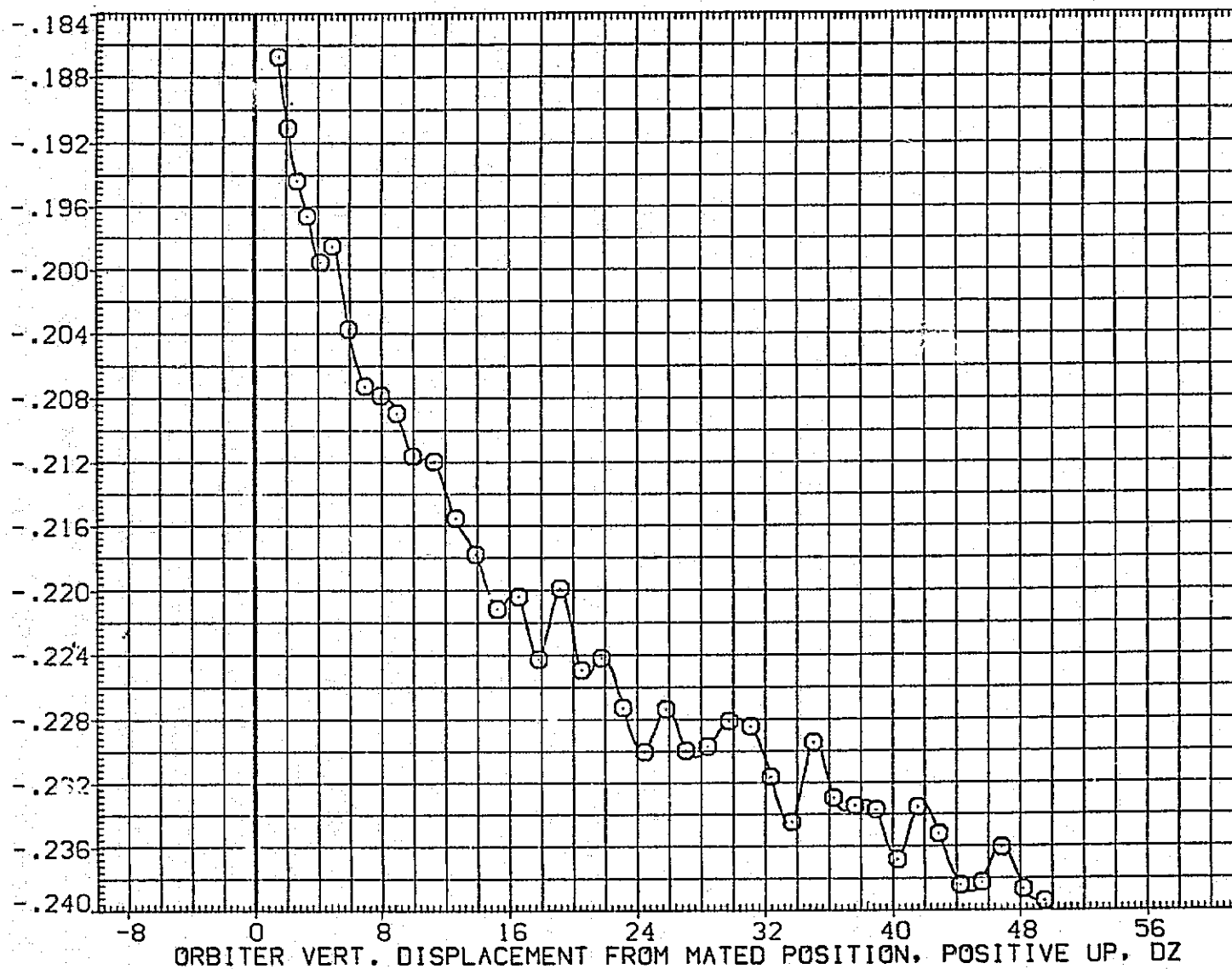


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE122)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

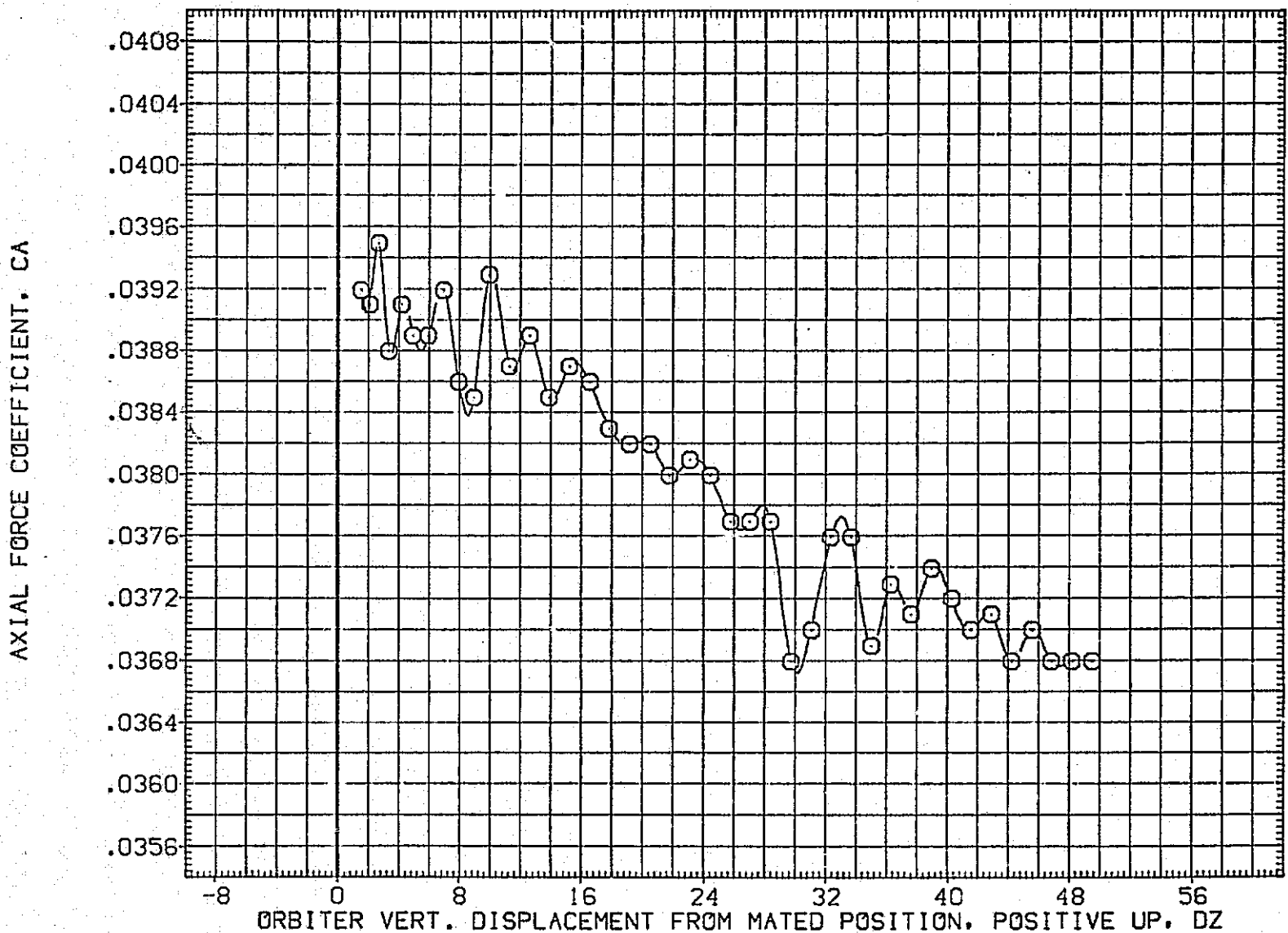


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION							
		ALPHAC	BETAC	DX	IORB	DPHI	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE
○	.602	4.000	.000	.000	.000	.000	5500.0000	327.7800	2348.0400	1339.9000	.0000	.0125	IN.
		5.000	.000	.000	6.000	.000							IN.
		ELEVON	.000	.000	.000	.000							IN. XC
		DY	.000	.000	.000	.000							IN. YC
		BETA0	.000	.000	.000	.000							IN. ZC

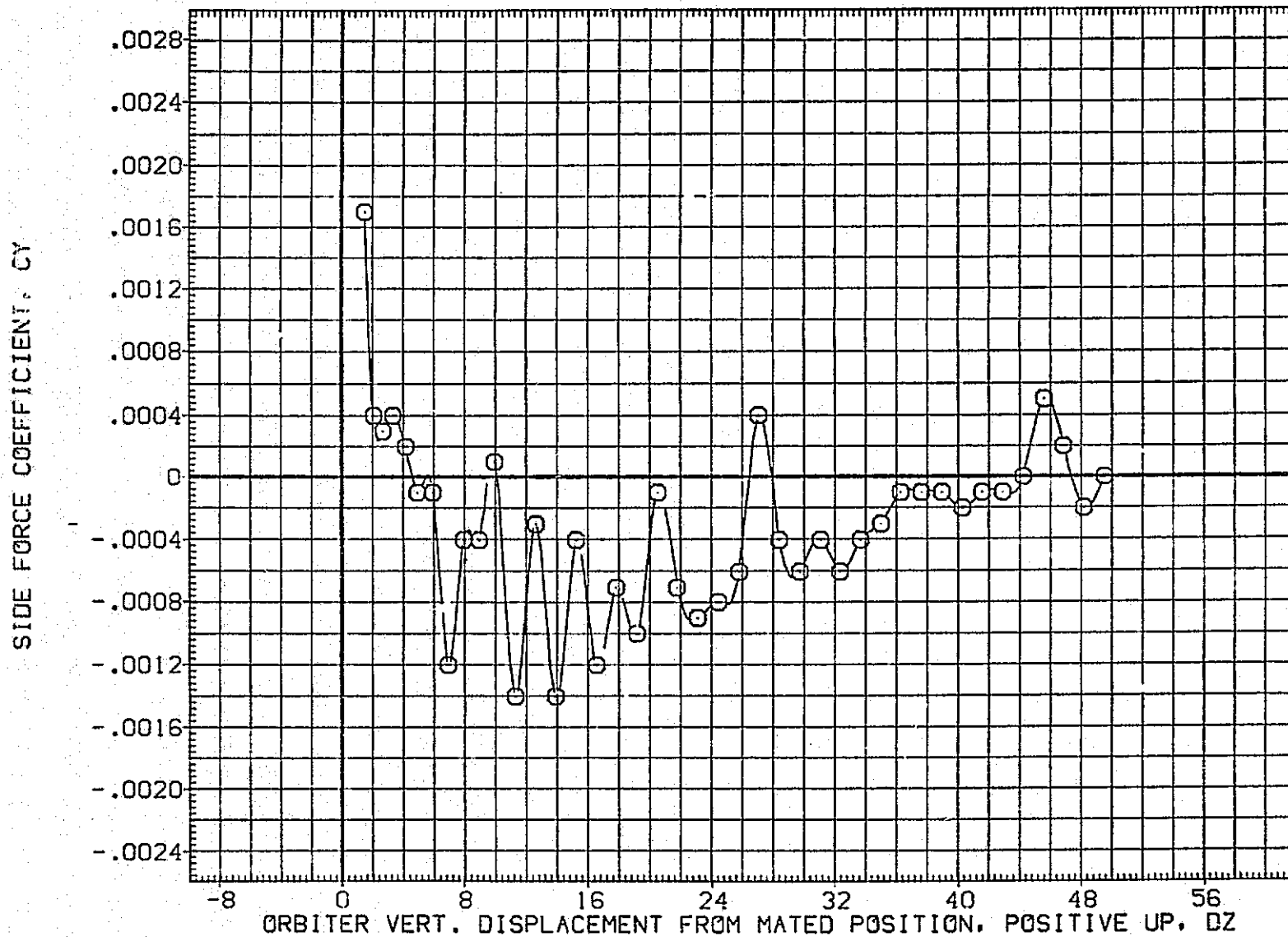


FIG. 226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE122)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

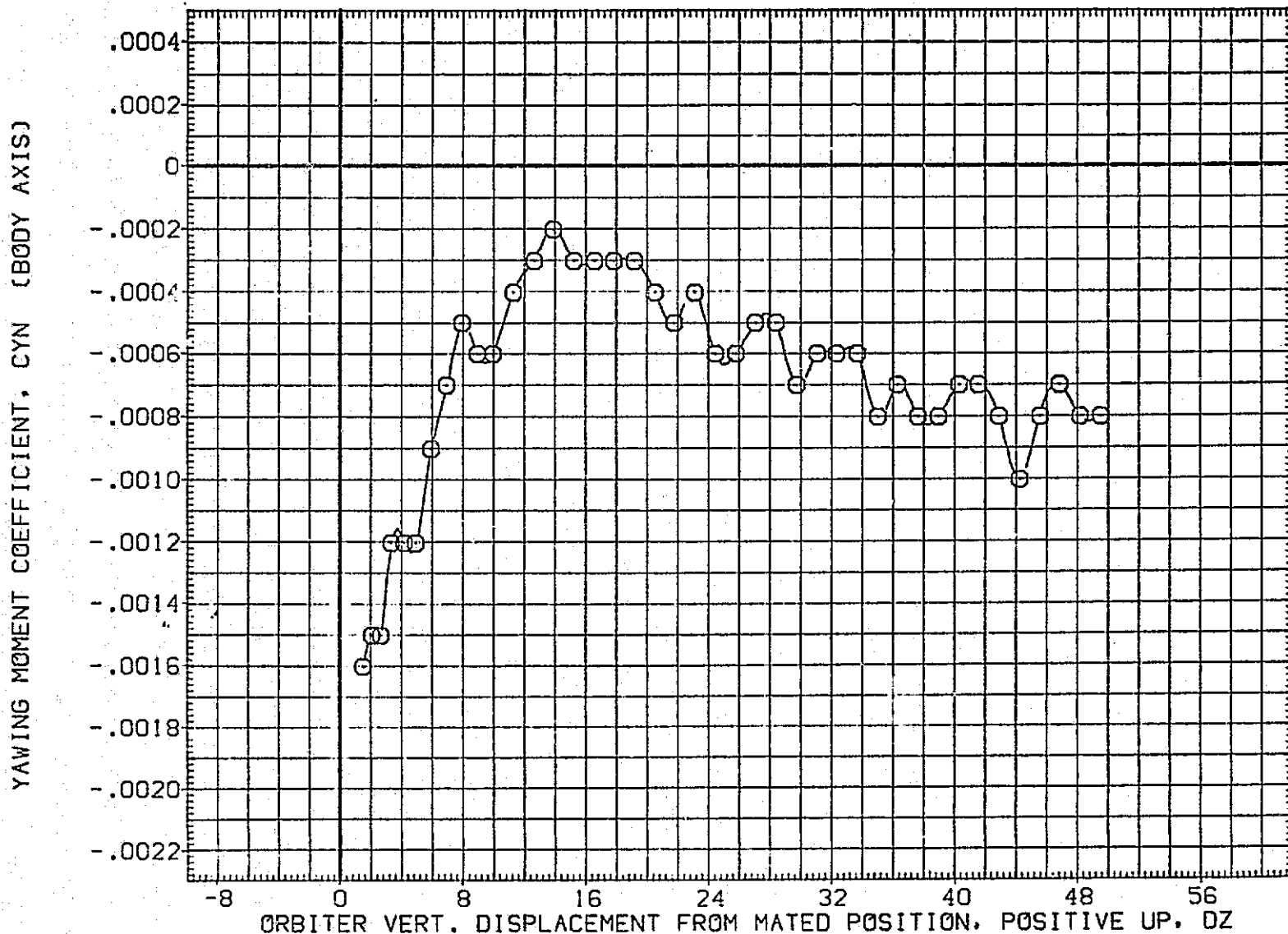


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

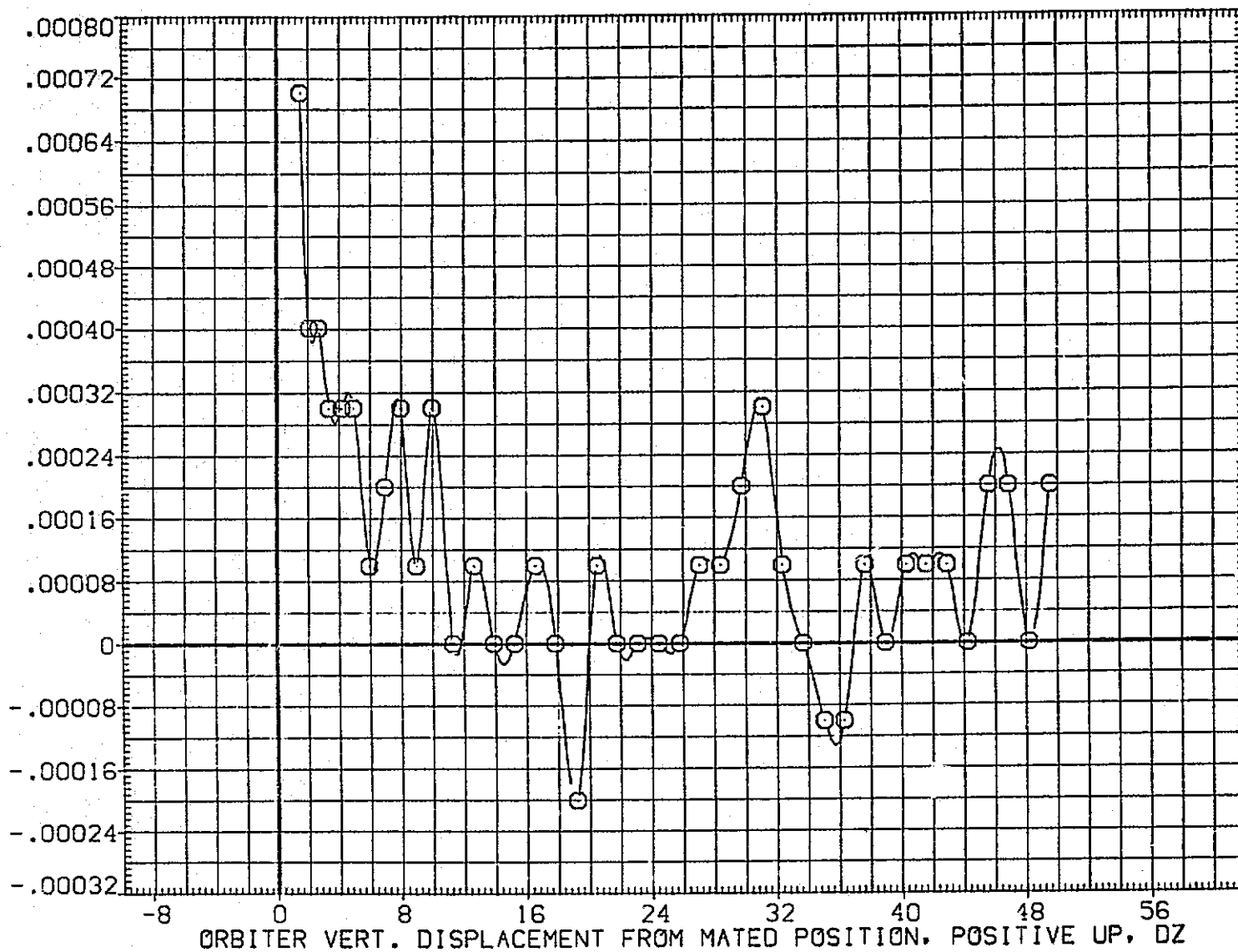


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE122)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.602	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

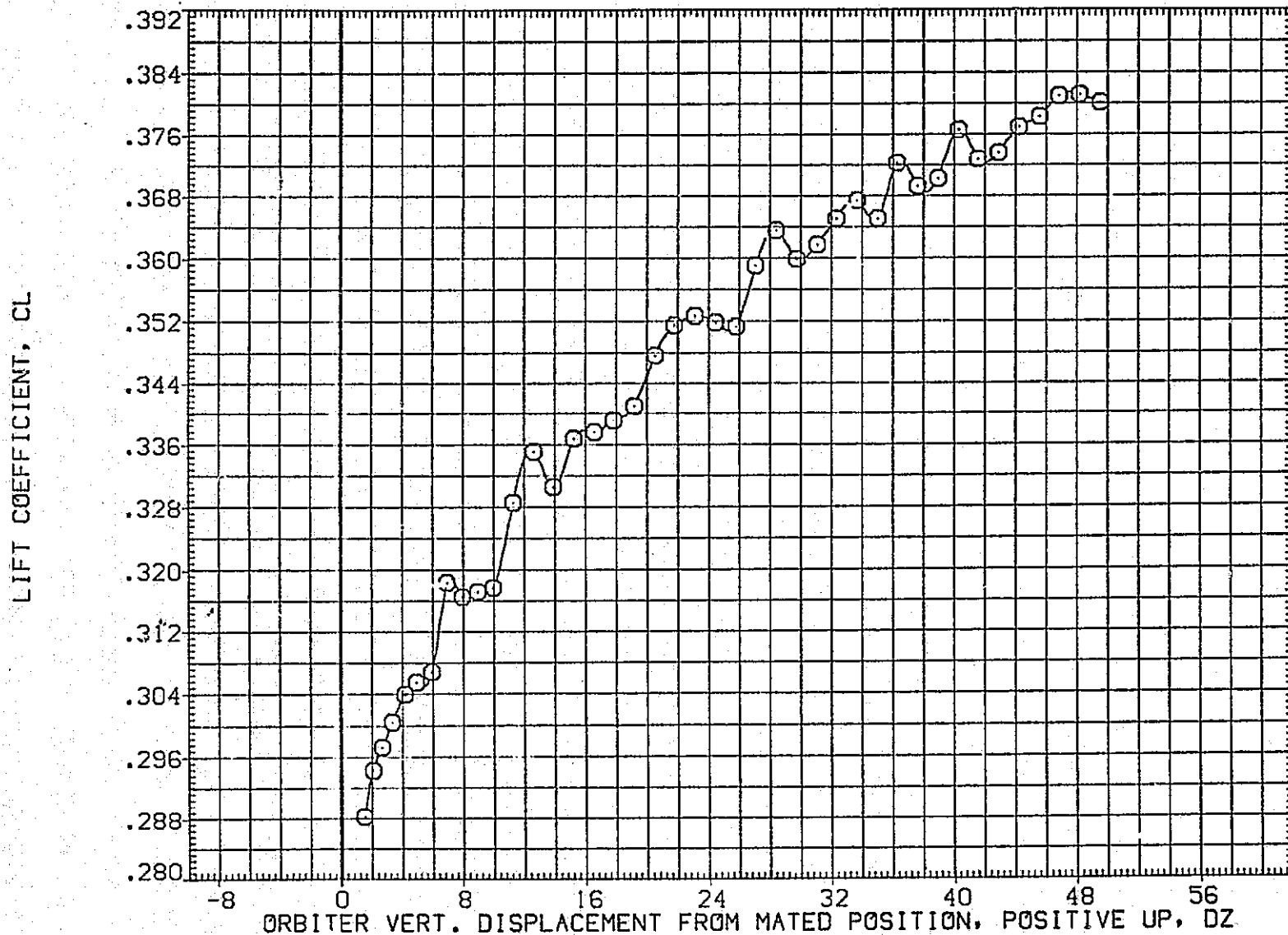


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DX	SREF	SO.FT.	
○	.602	4.000	.000	.000	.000	5500.0000	50.FT.	
		5.000	.000	.000	.000	327.7800	IN.	
		.000	.000	.000	.000	2348.0400	IN.	
		.000	.000	.000	.000	1339.9000	IN.	XC
		.000	.000	.000	6.000	.0000	IN.	YC
		.000	.000	.000	.000	190.7500	IN.	ZC
						SCALE	.0125	

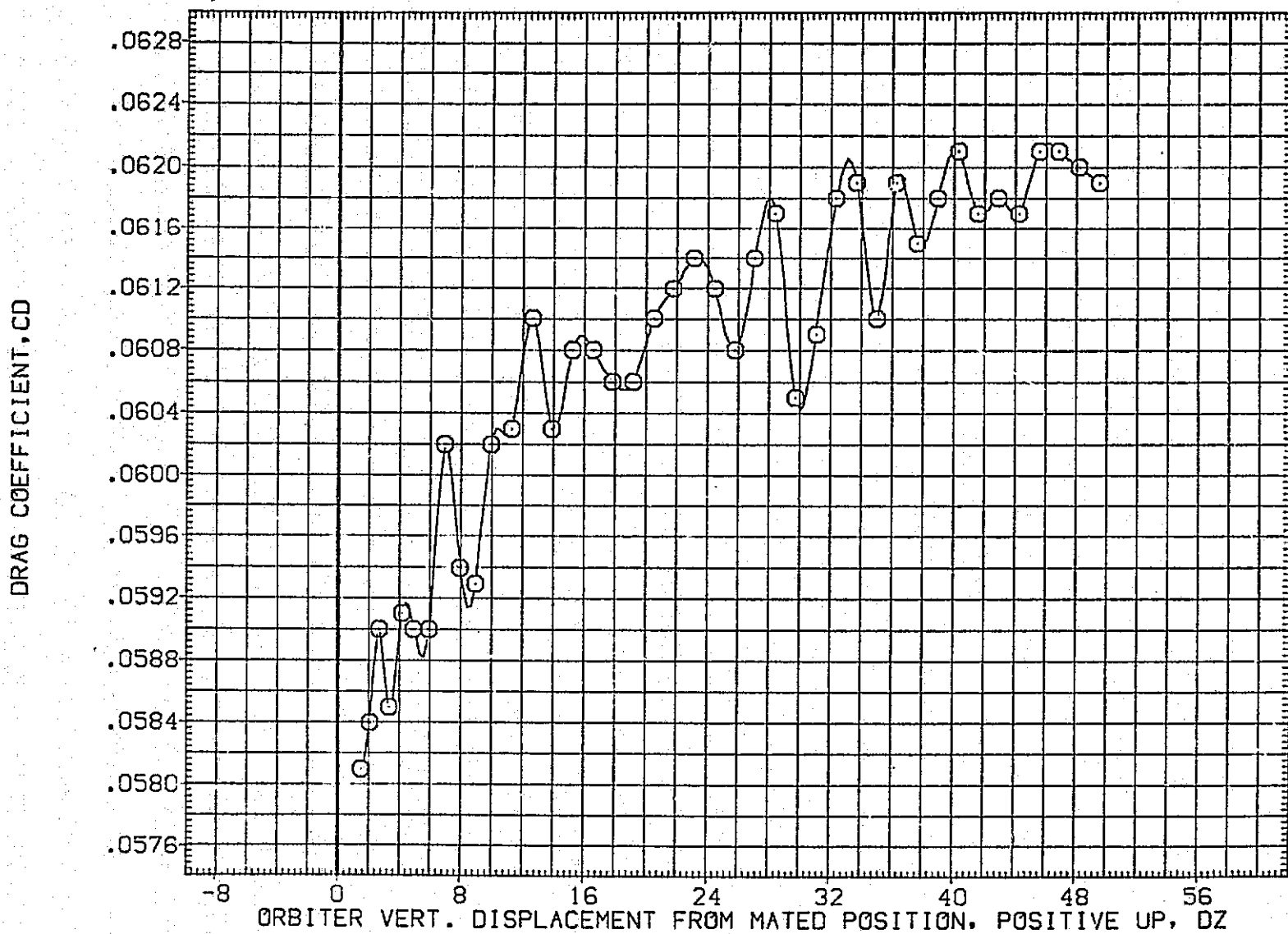


FIG.226 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=6, BETAC=0, BETA0=0, RFE122

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

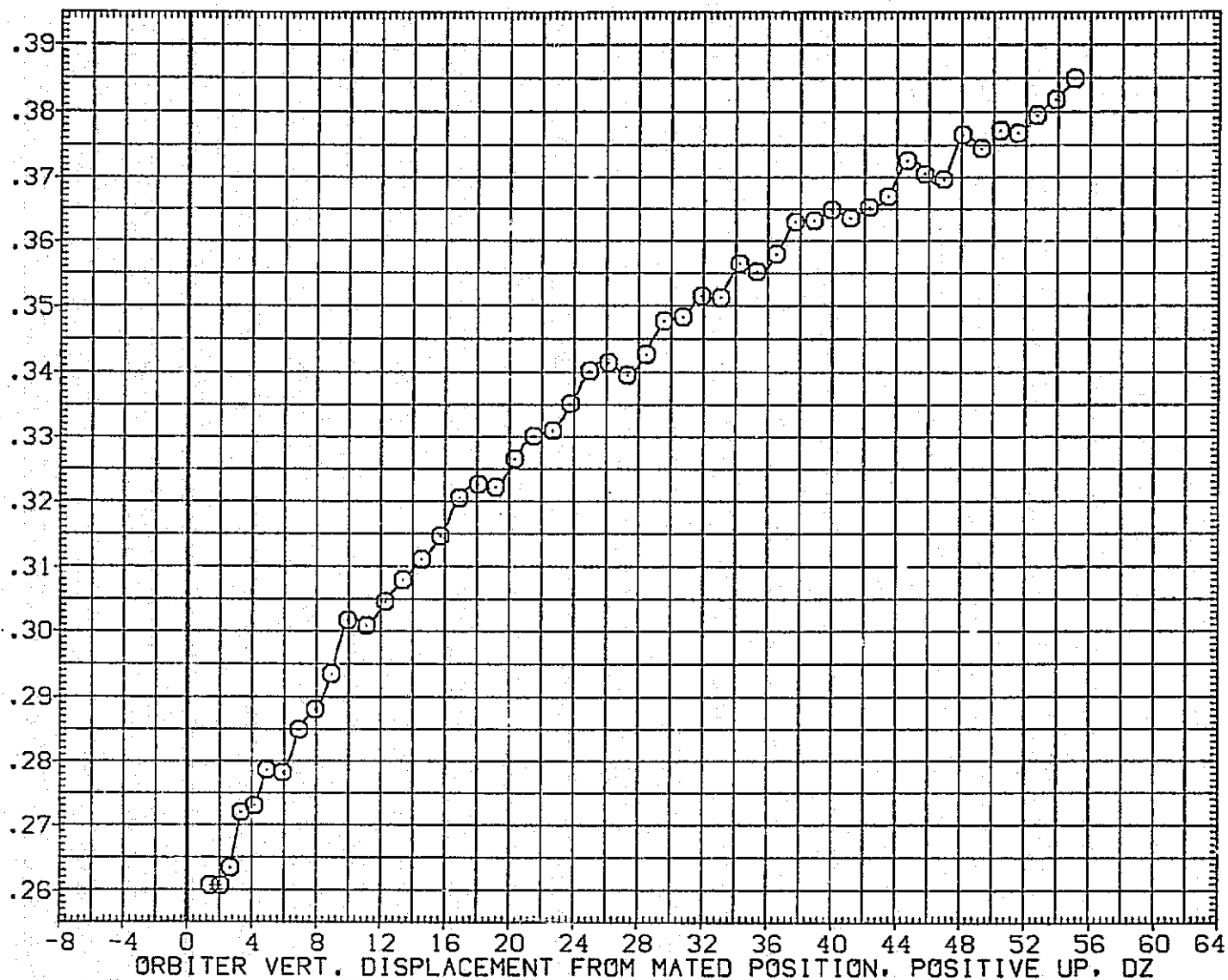


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

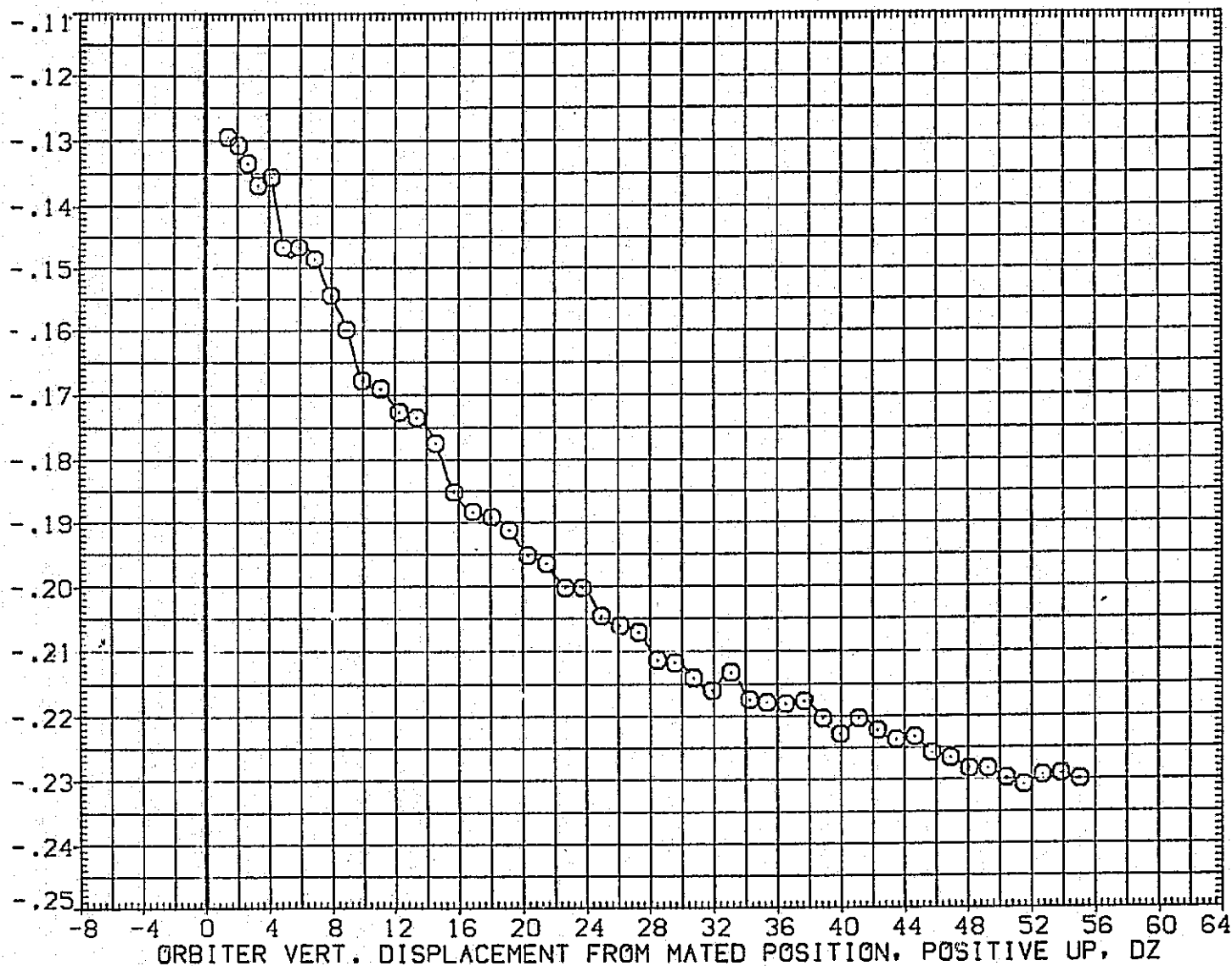


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE123)

SYMBOL
○

MACH
.603

PARAMETRIC VALUES			
ALPHAC	4.000	BETAC	.000
STAB	5.000	RUDDER	.000
ELEVON	.000	DX	.000
DY	.000	IORB	8.000
BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

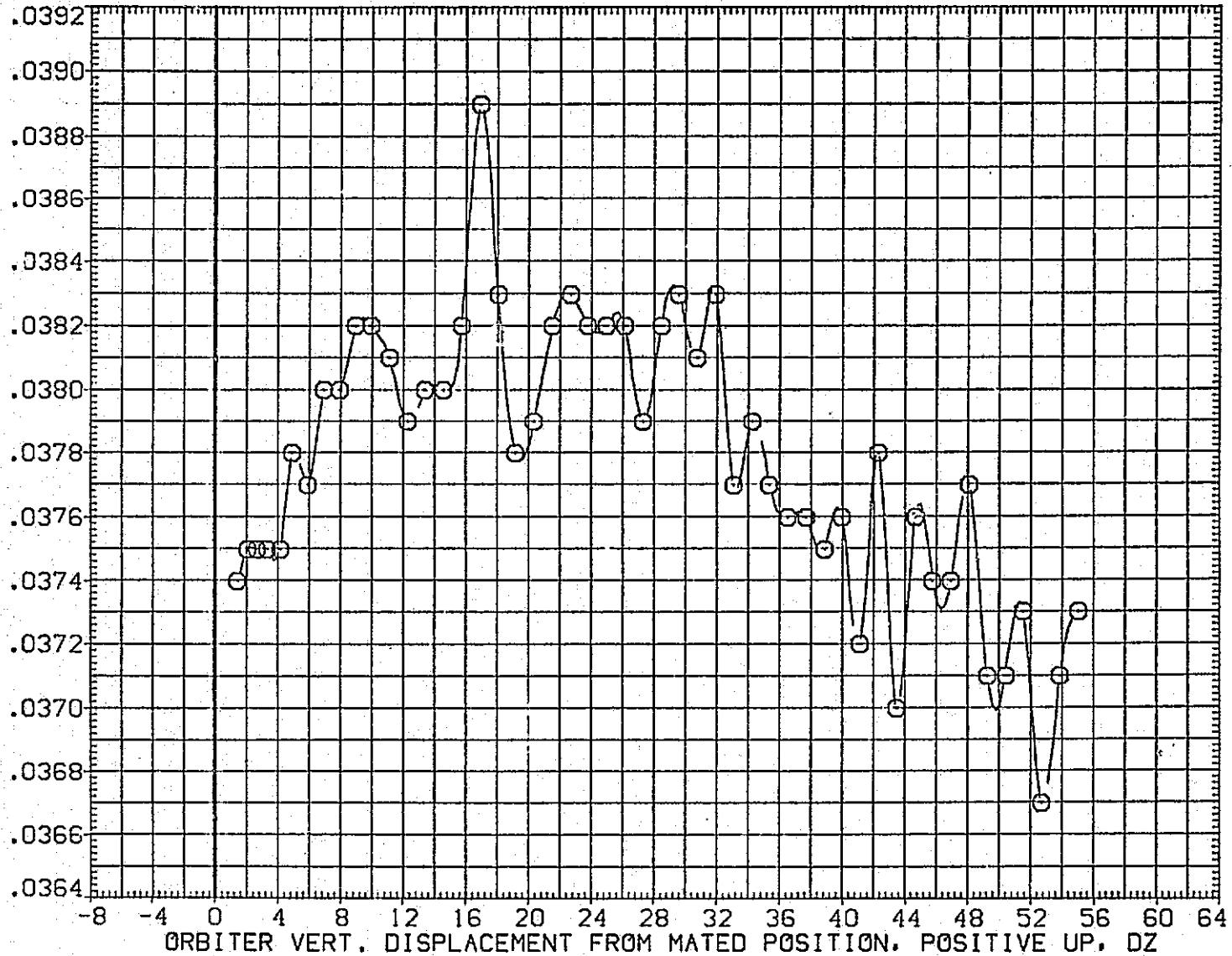


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

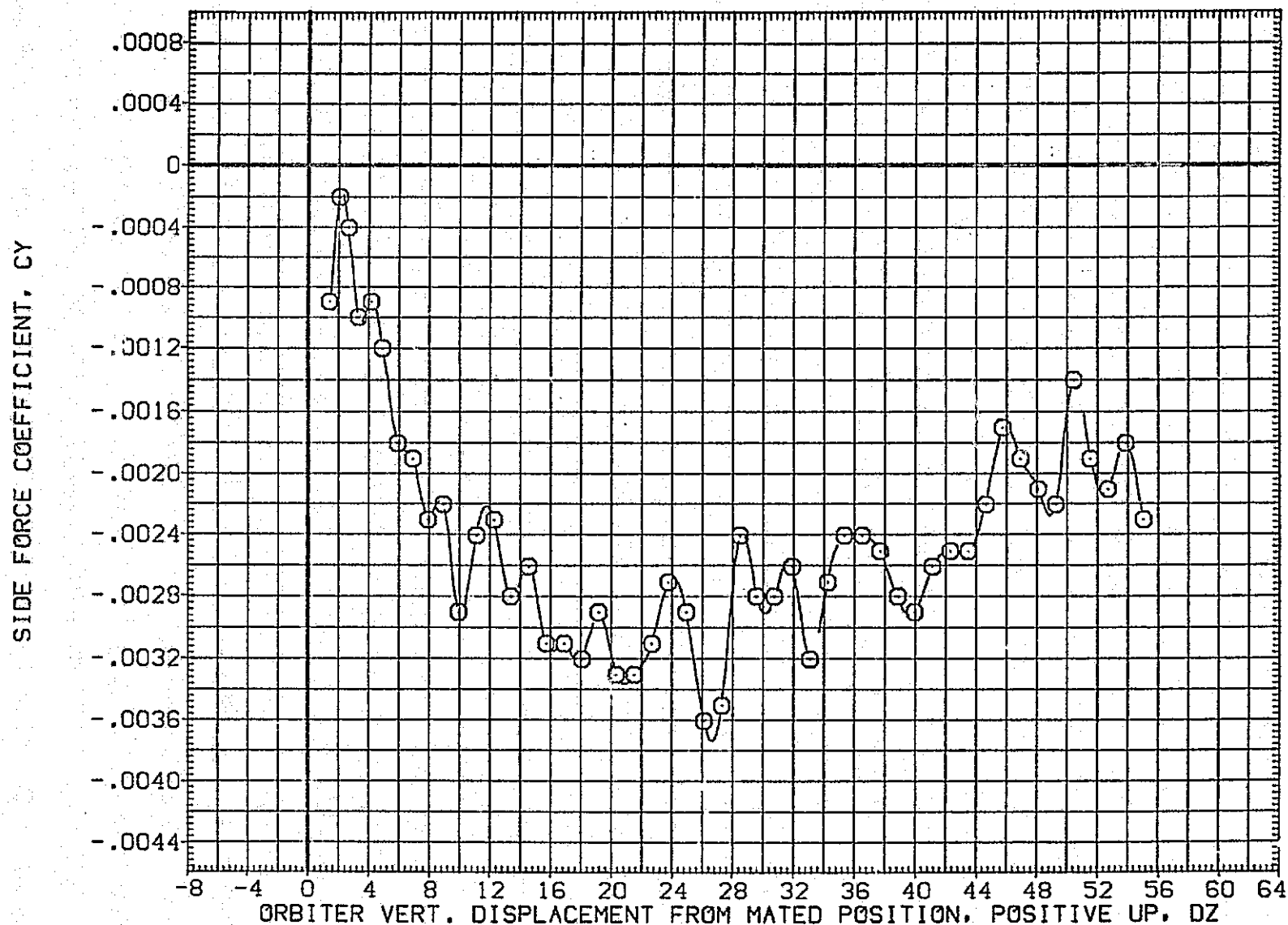


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE123)

SYMBOL
○

MACH
.603

PARAMETRIC VALUES			
ALPHAC	4.000	BETAC	.000
STAB	5.000	RUDDER	.000
ELEVON	.000	DX	.000
DY	.000	IORB	8.000
BETAG	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

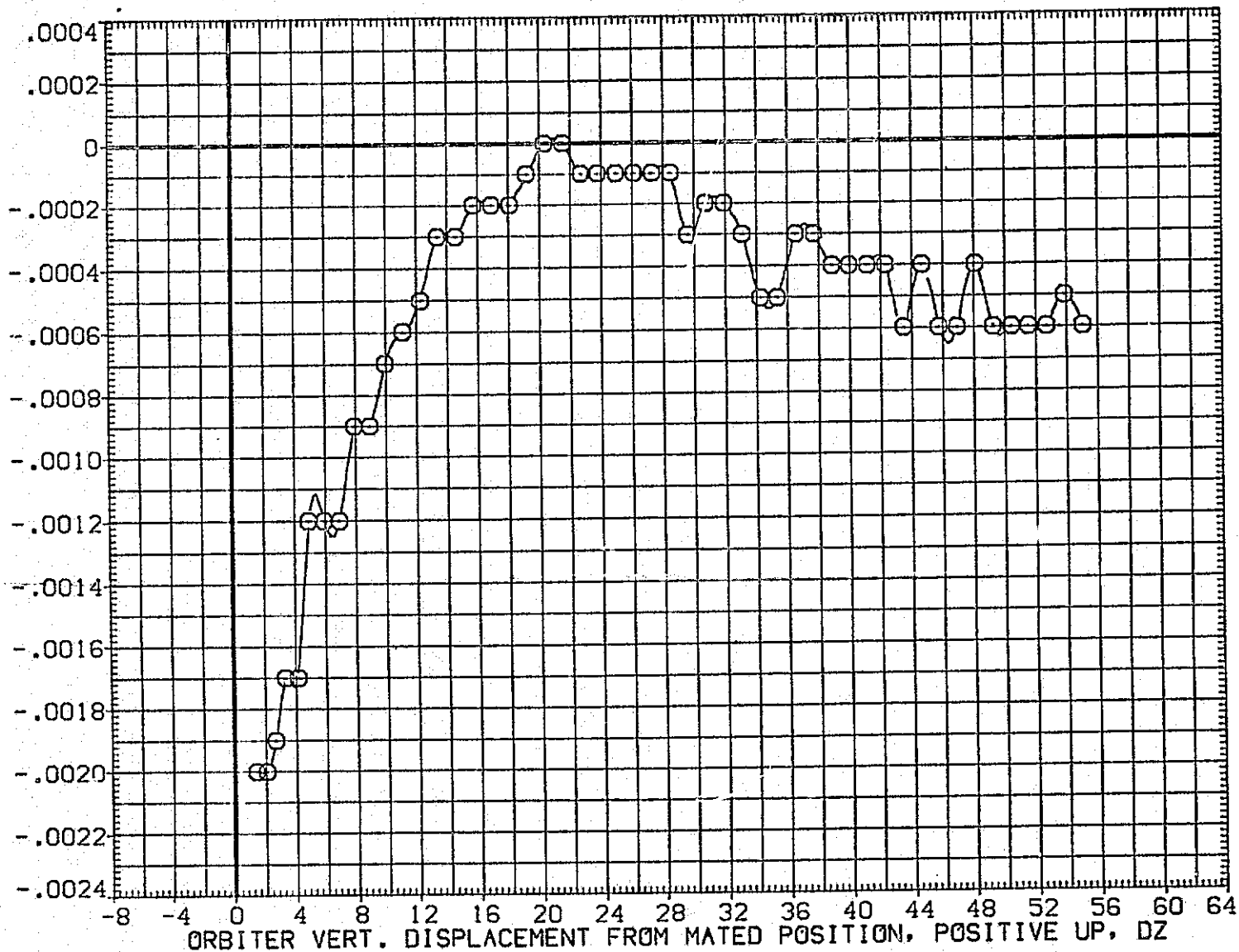


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETAG=0, RFE123

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	4.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

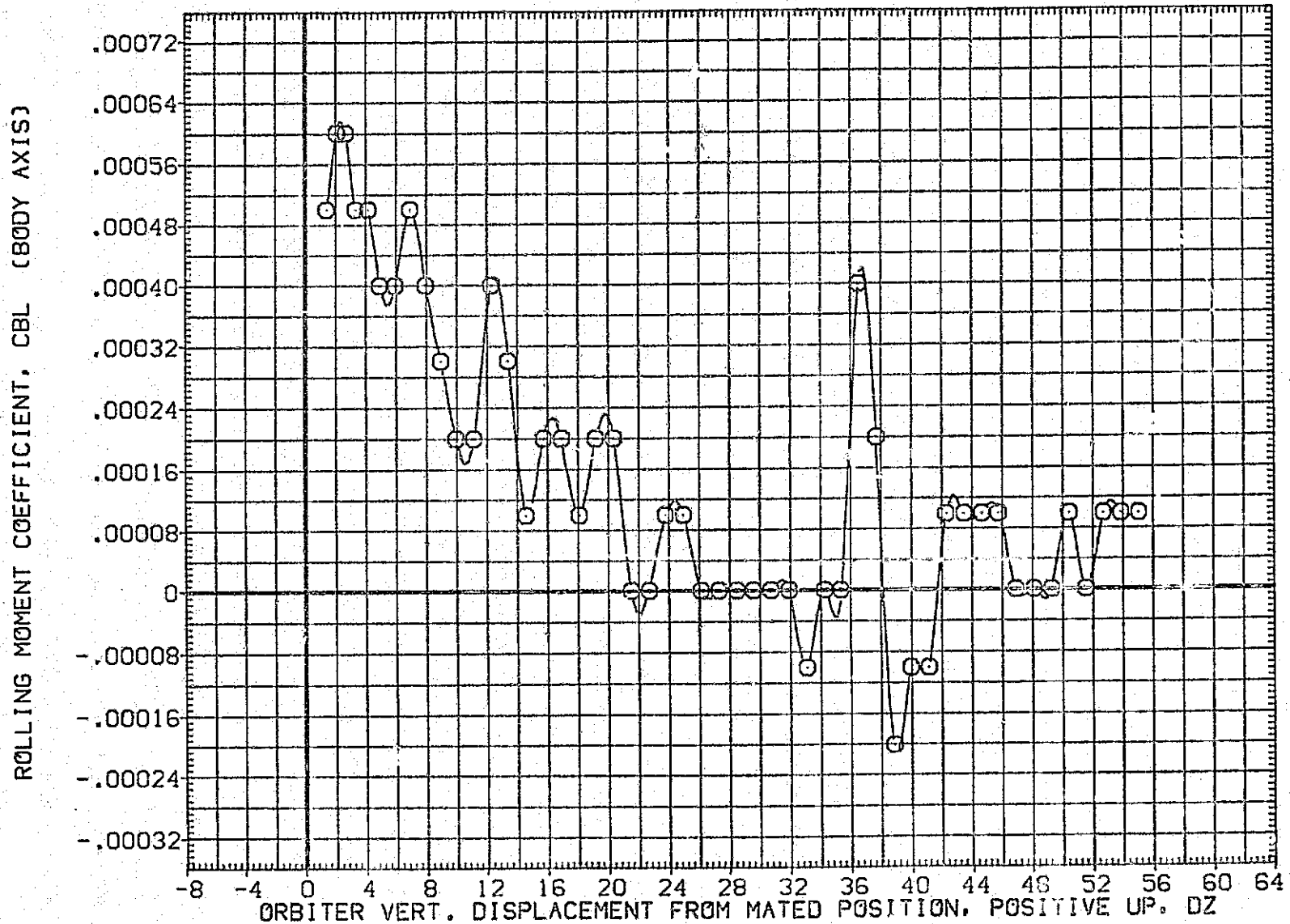


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE123)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.603	ALPHAC	4.000	BETAC	.000
	STAB	5.000	RUDDER	.000
	ELEVON	.000	DX	.000
	DY	.000	IORB	8.000
	BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

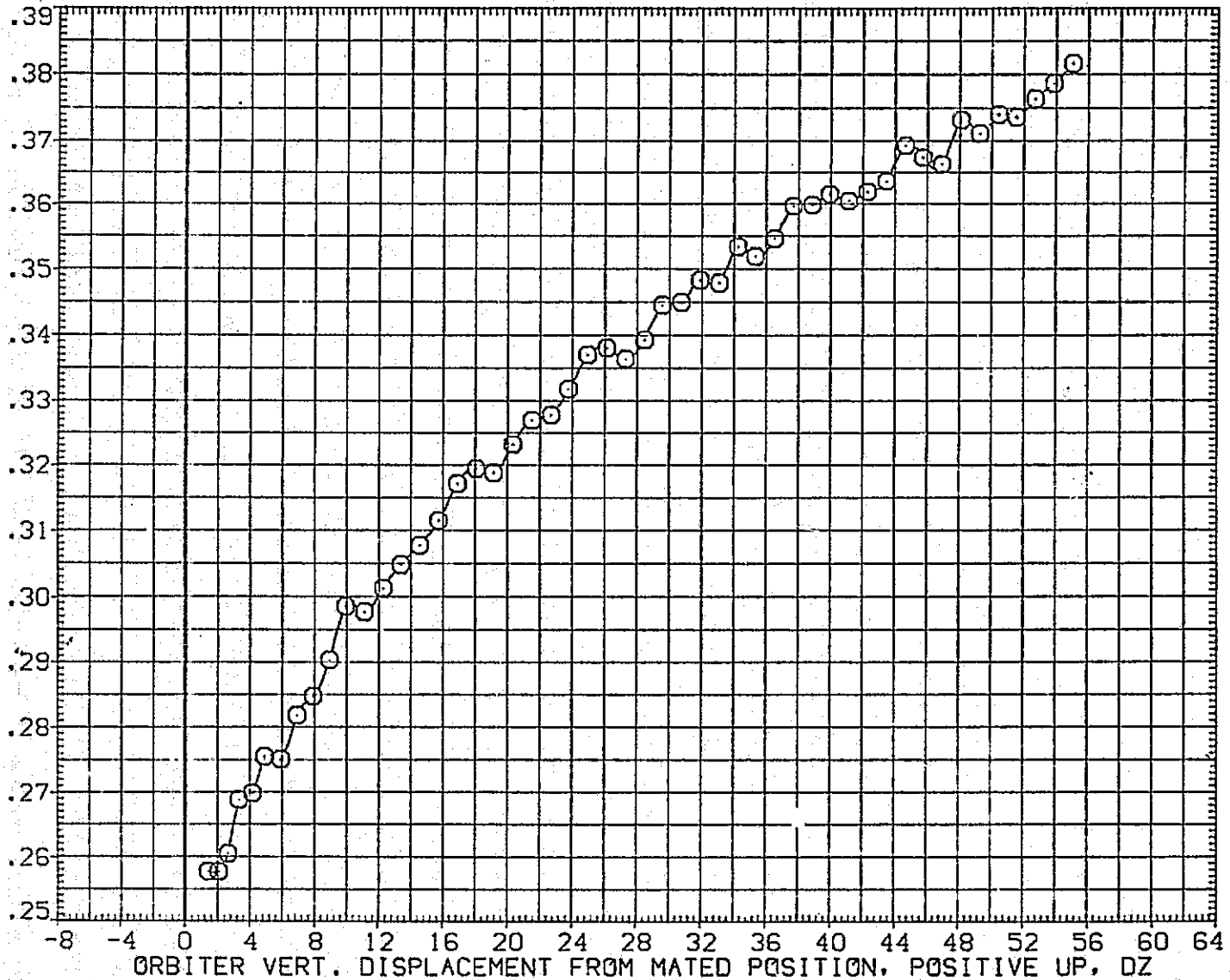


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	4.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	OX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

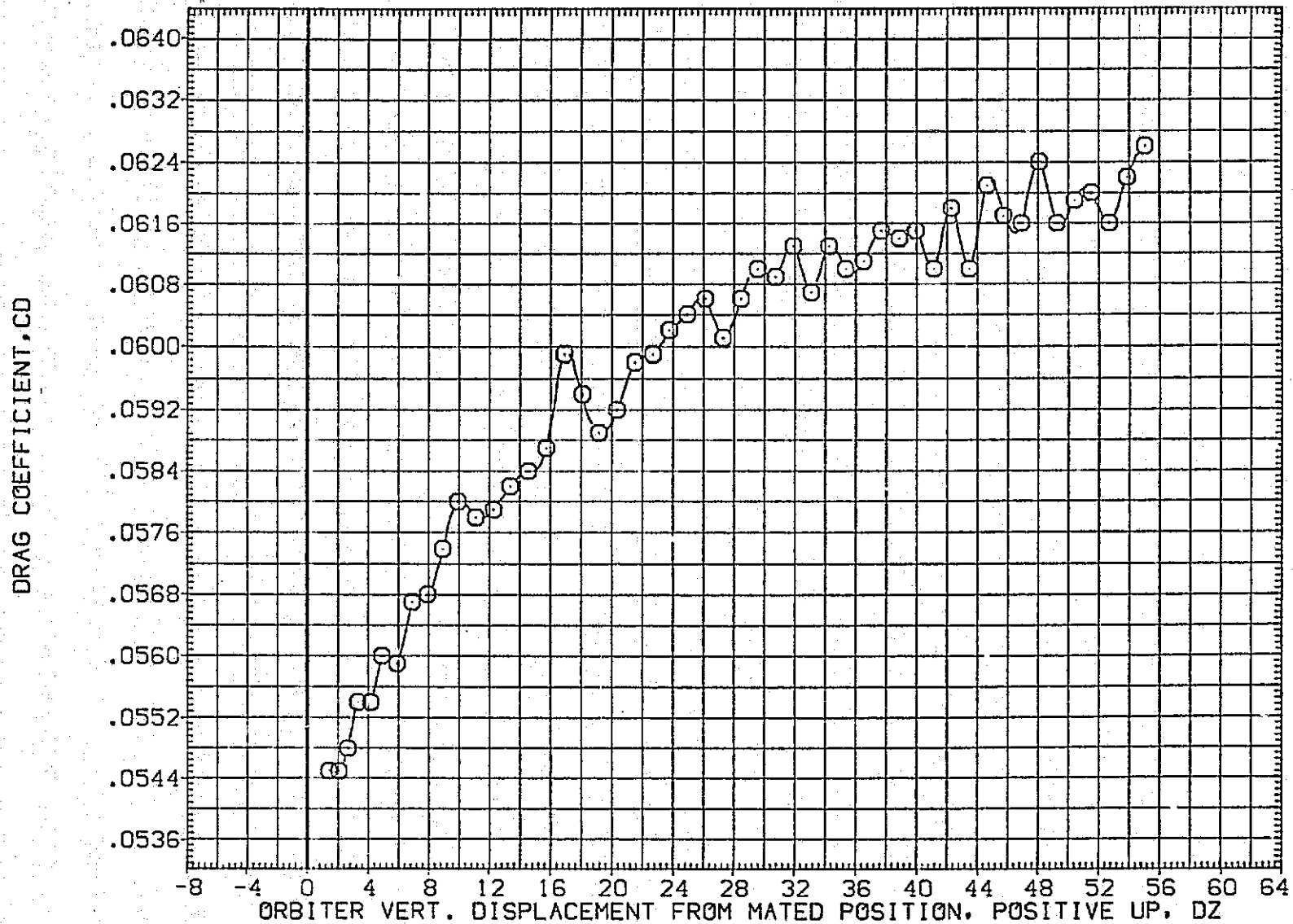


FIG.227 CARRIER DATA, ORB. PROXIMITY, ALPHAC=4, IORB=8, BETAC=0, BETA0=0, RFE123

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE124)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

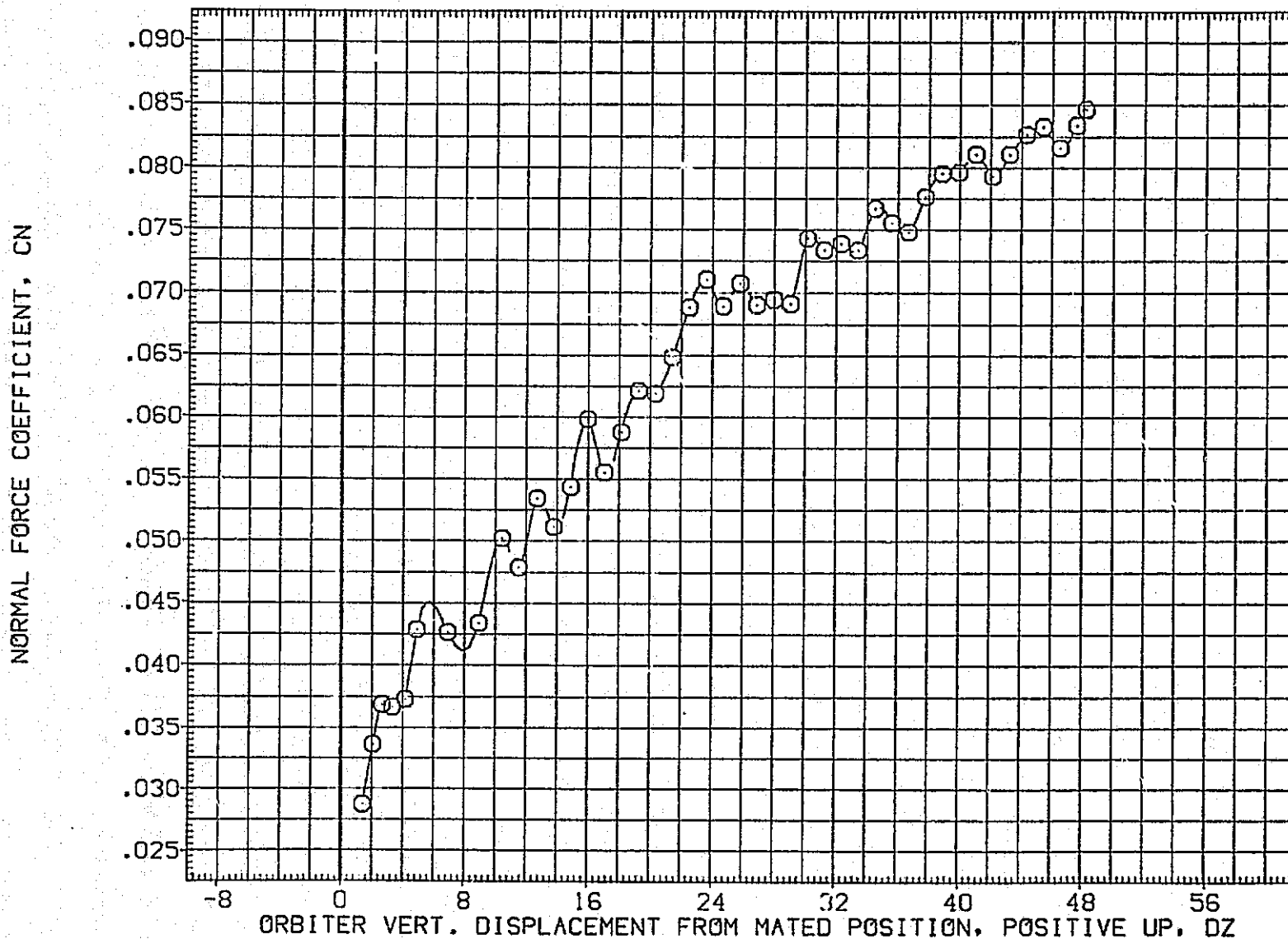


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RHDDER	.000
		ELEVON	.000	L	.000
		DY	.000	IORB	4.000
		BETAO	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

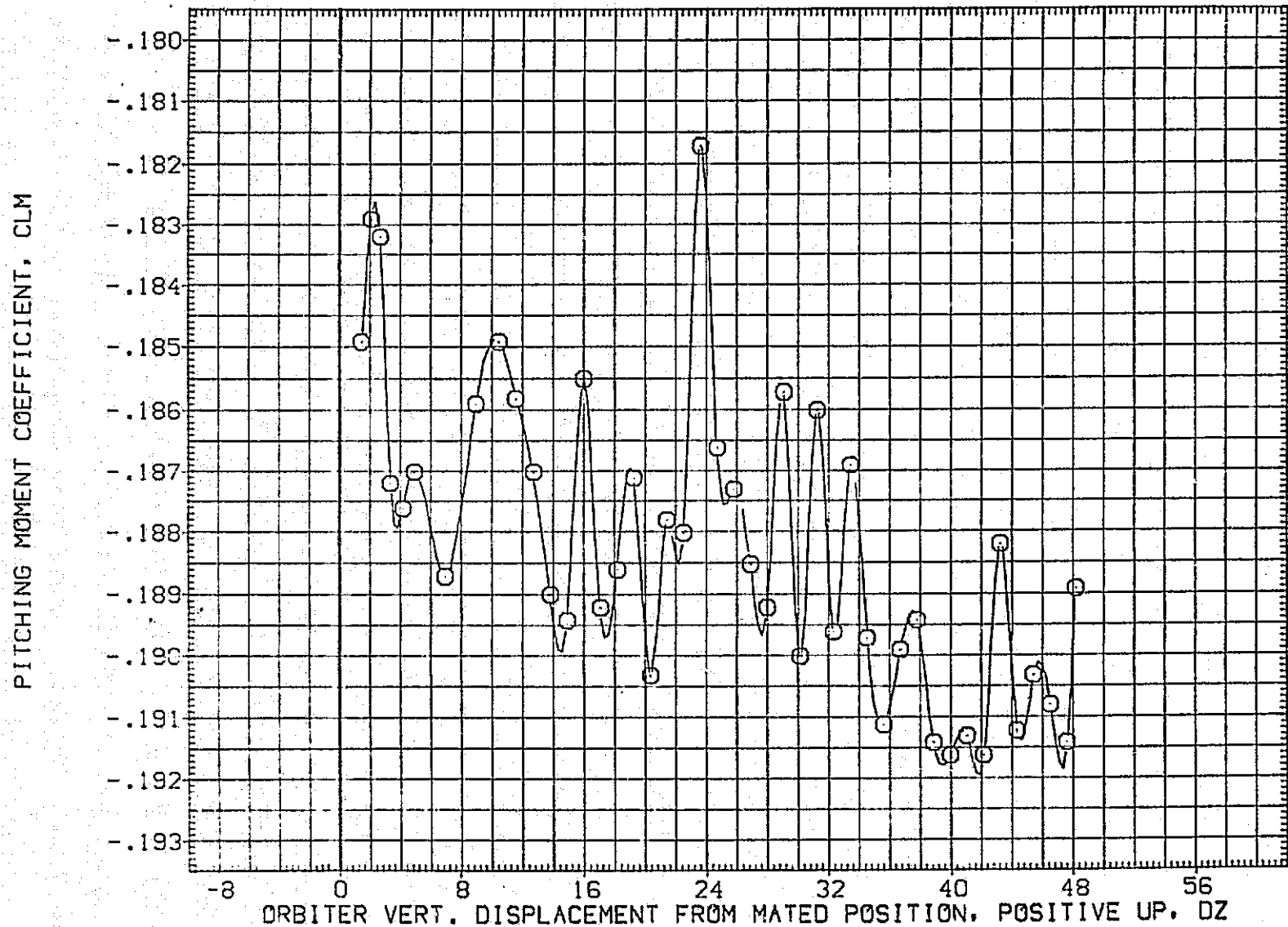


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE124)

SYMBOL	MACH	PARAMETRIC VALUES					
○	.600	ALPHAC	.000	BETAC	.000		
		STAB	5.000	RUDDER	.000		
		ELEVON	.000	DX	.000		
		DY	.000	IORB	4.000		
		BETA0	.000	DPHI	.000		

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

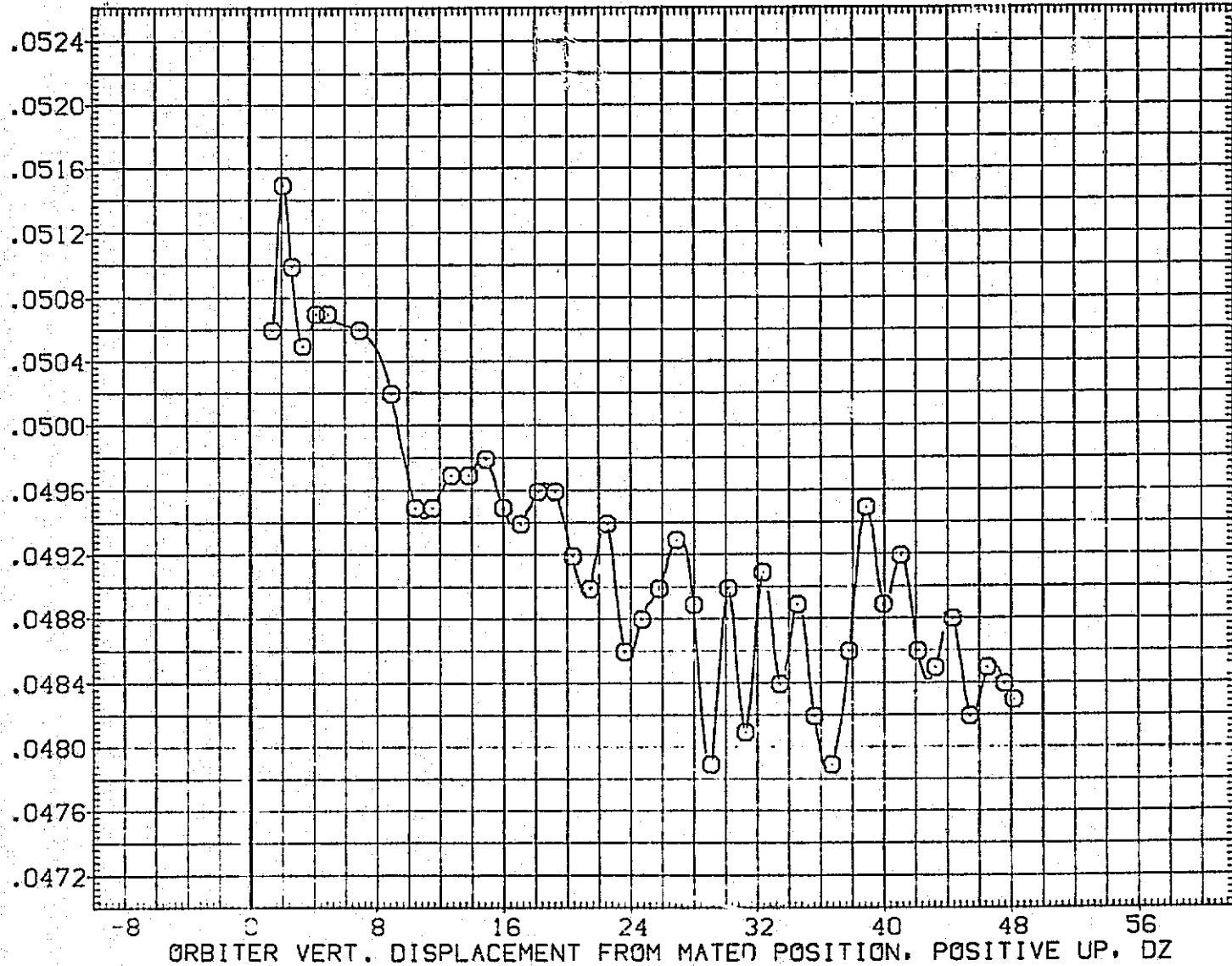


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

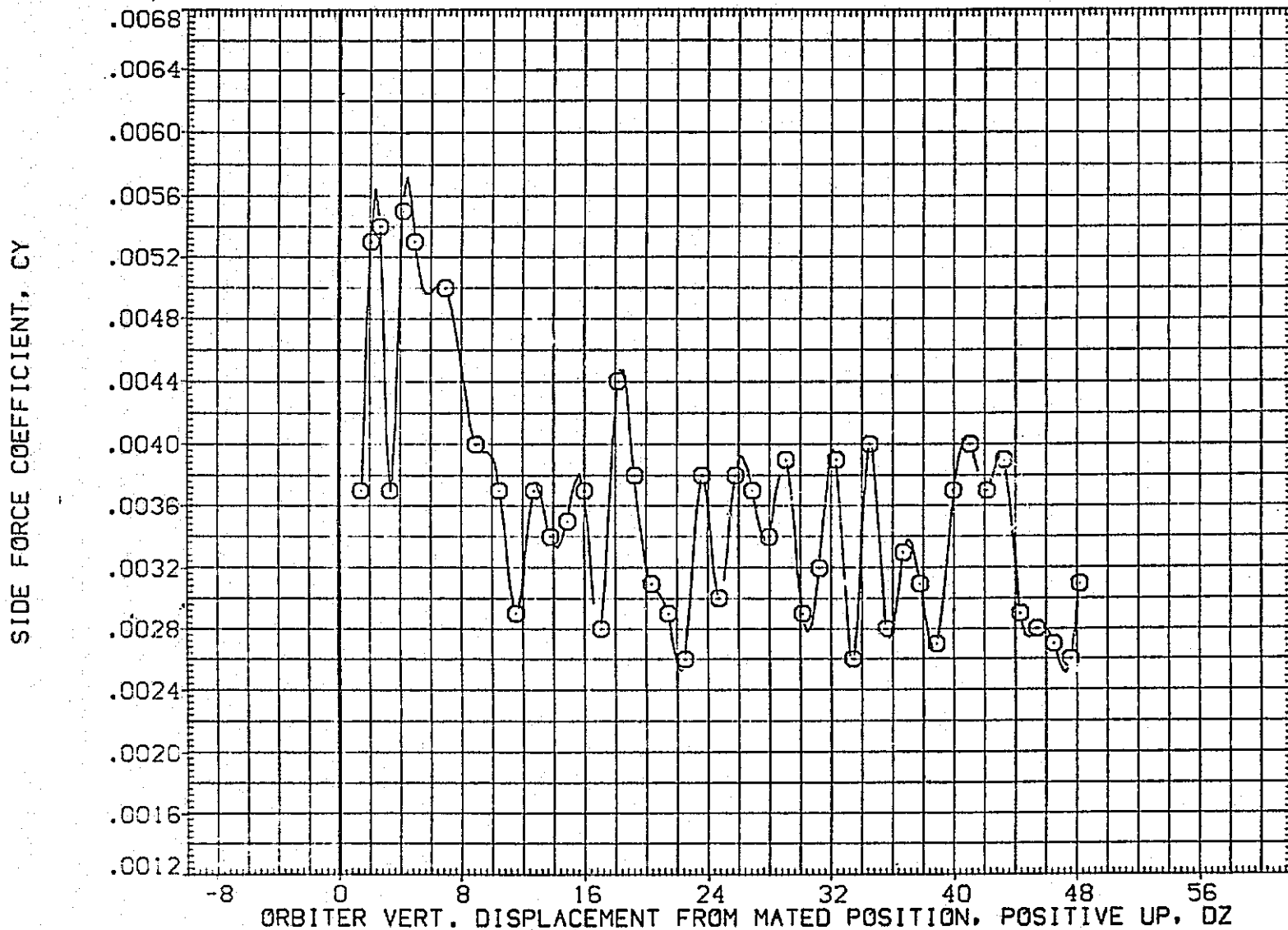


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE124)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

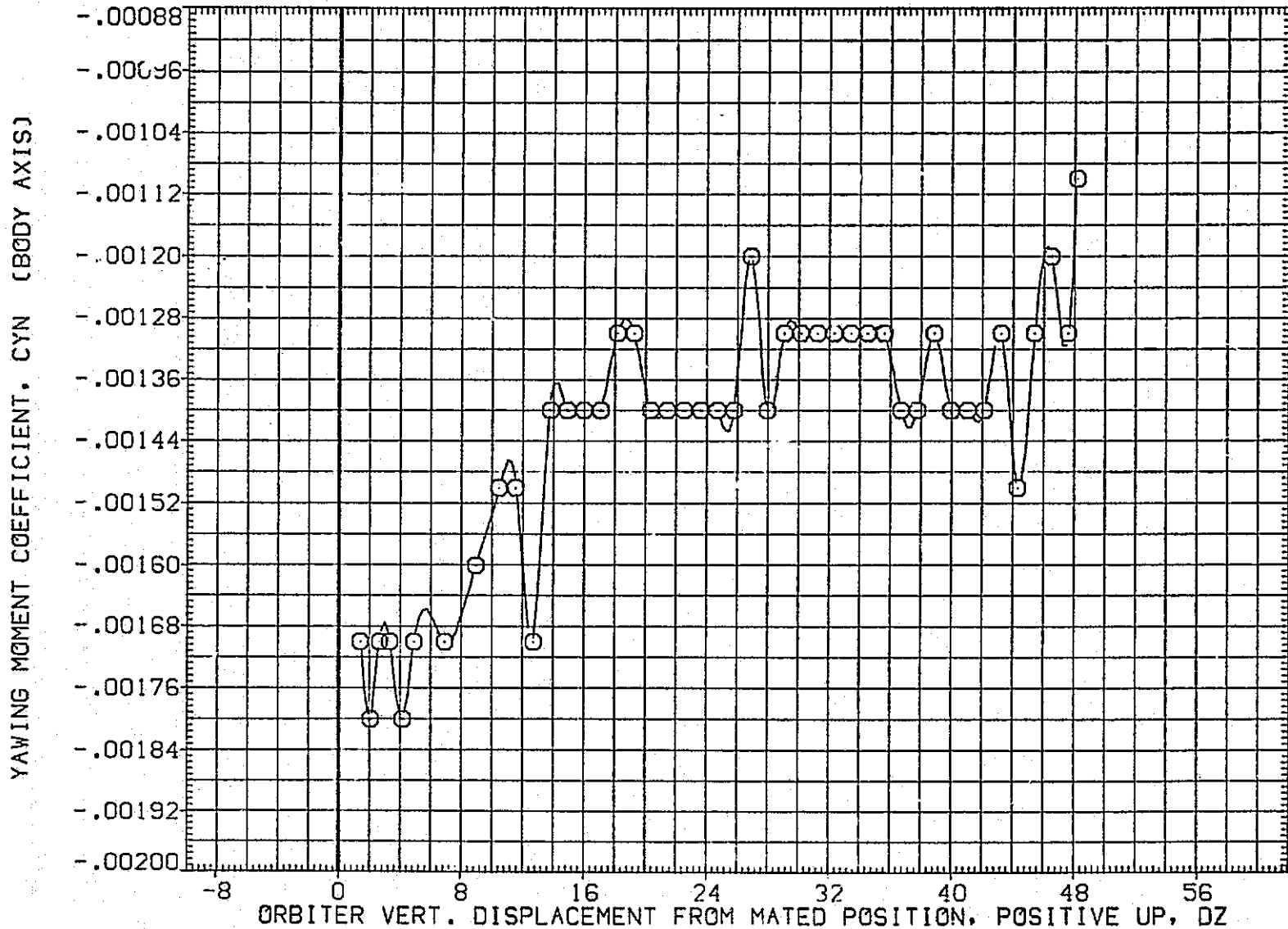


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

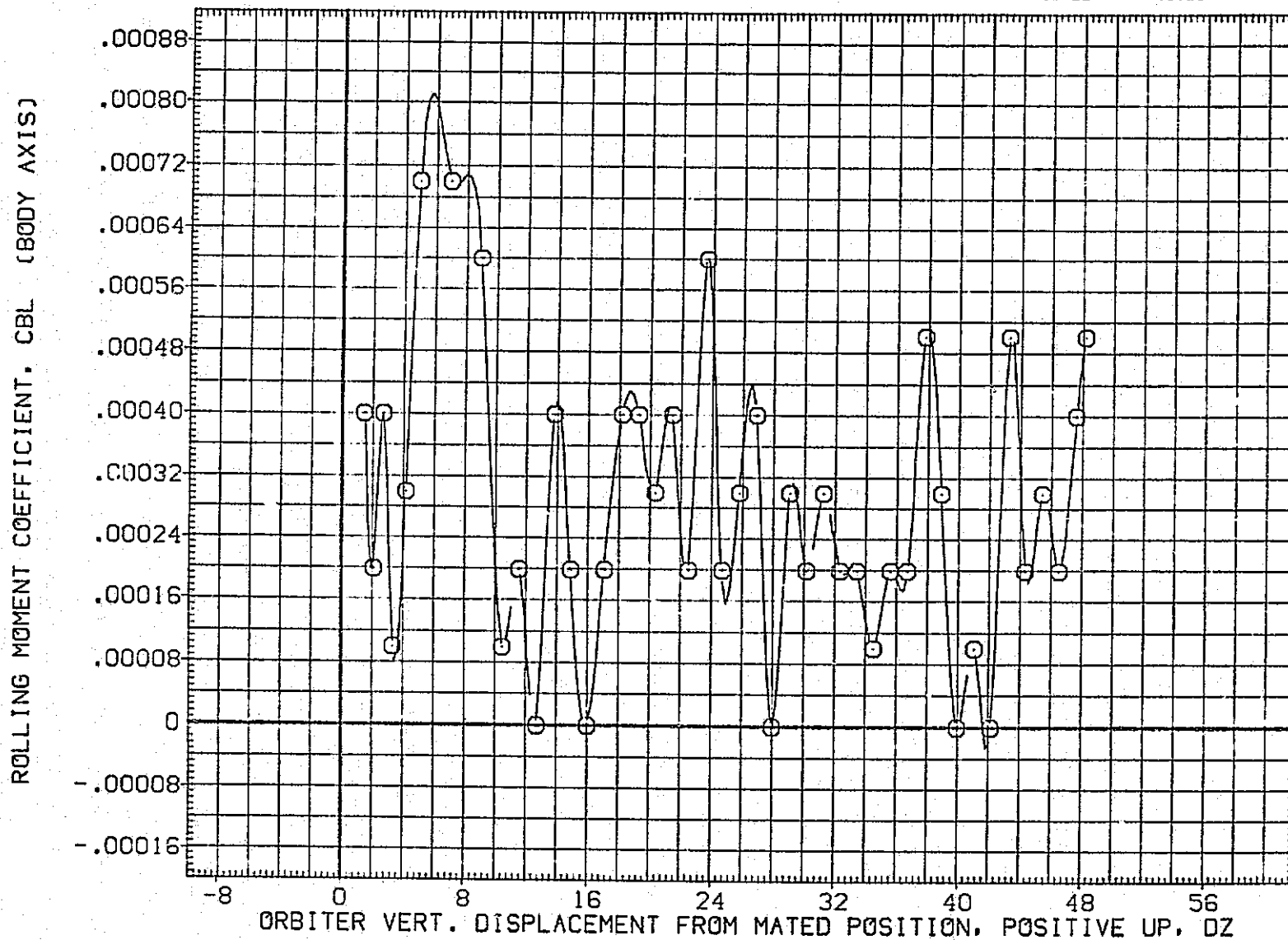


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE124)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	4.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

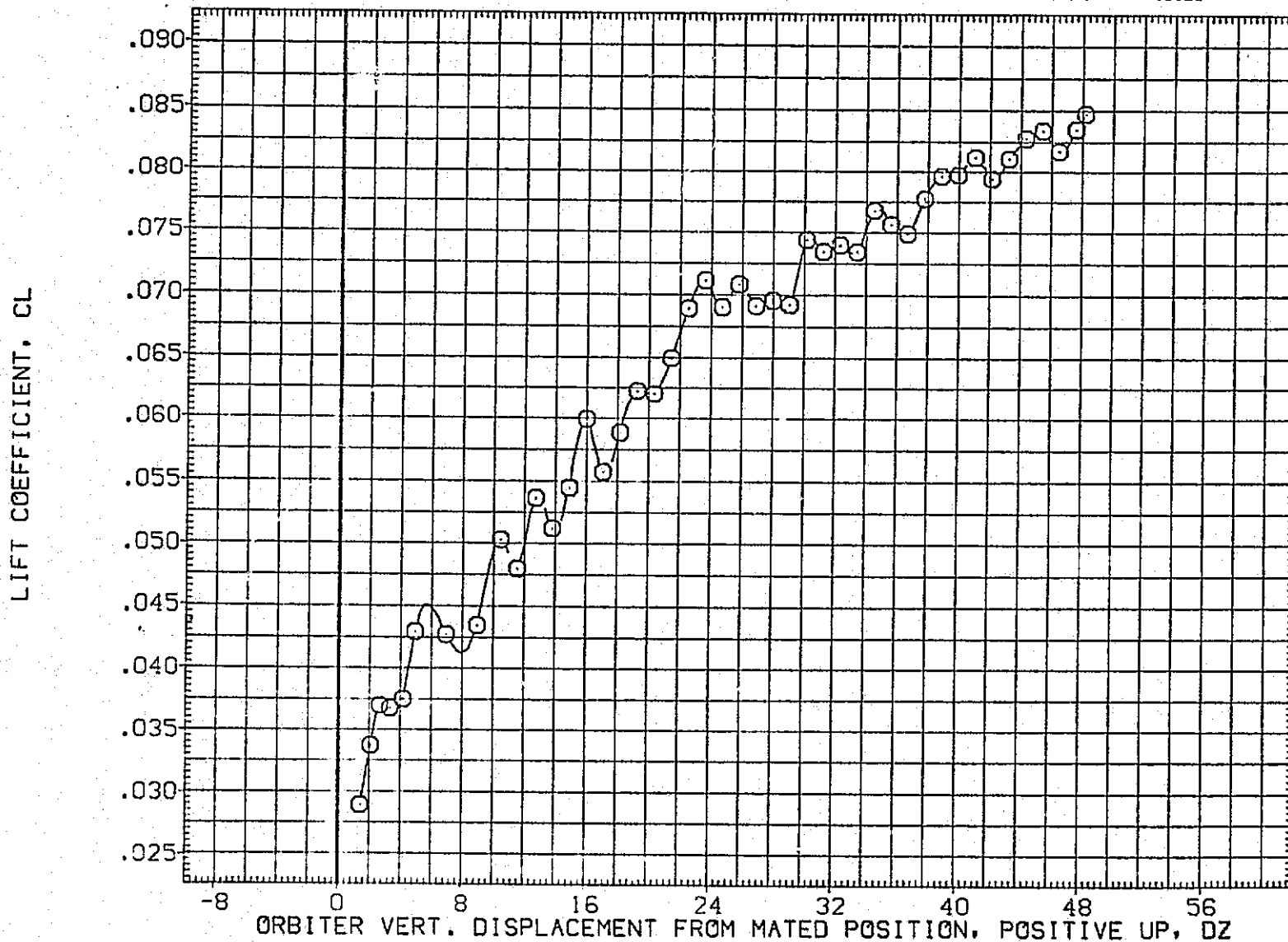


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	4.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

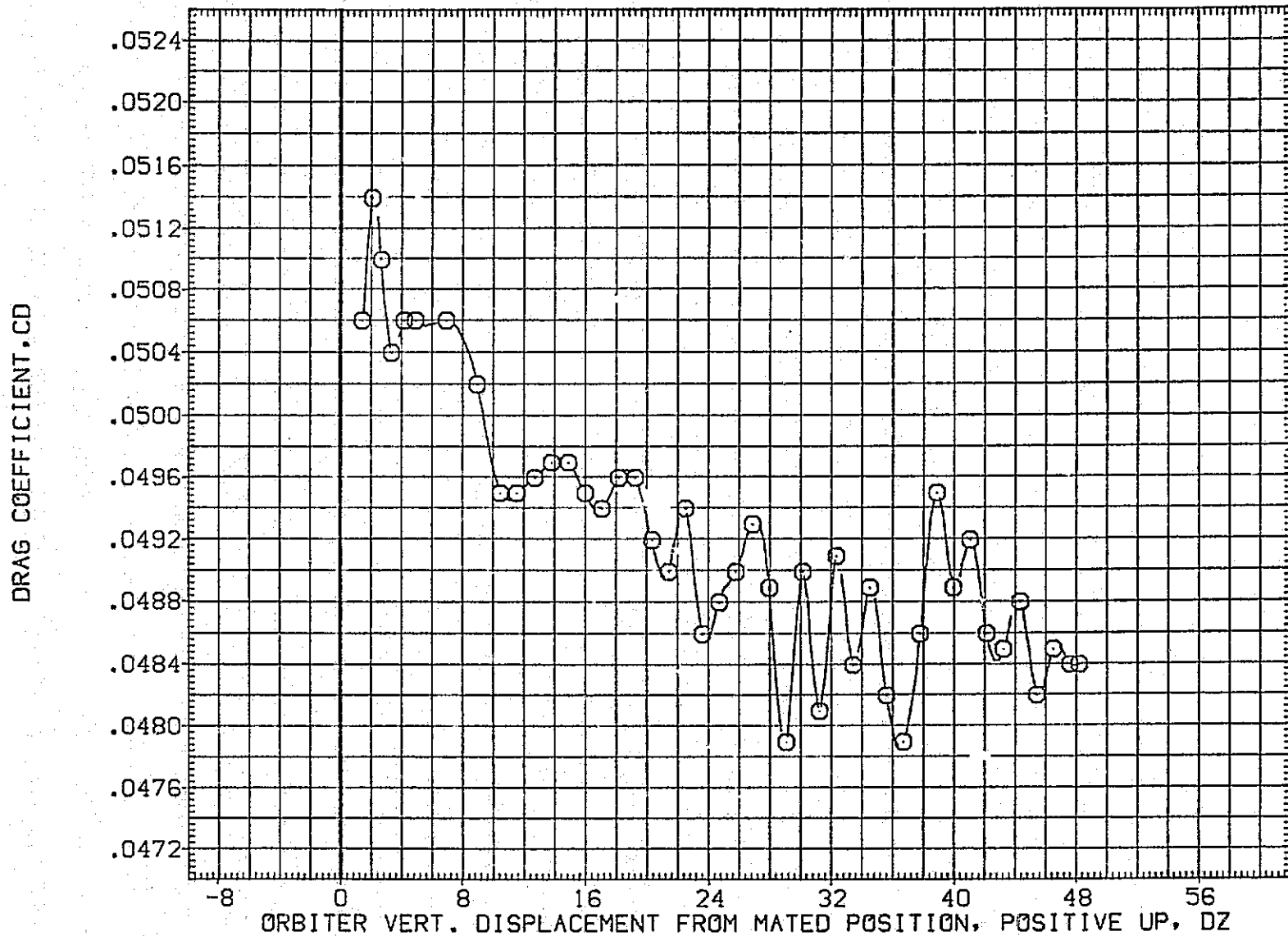


FIG.228 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=4, BETAC=0, BETA0=0, RFE124

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE125)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

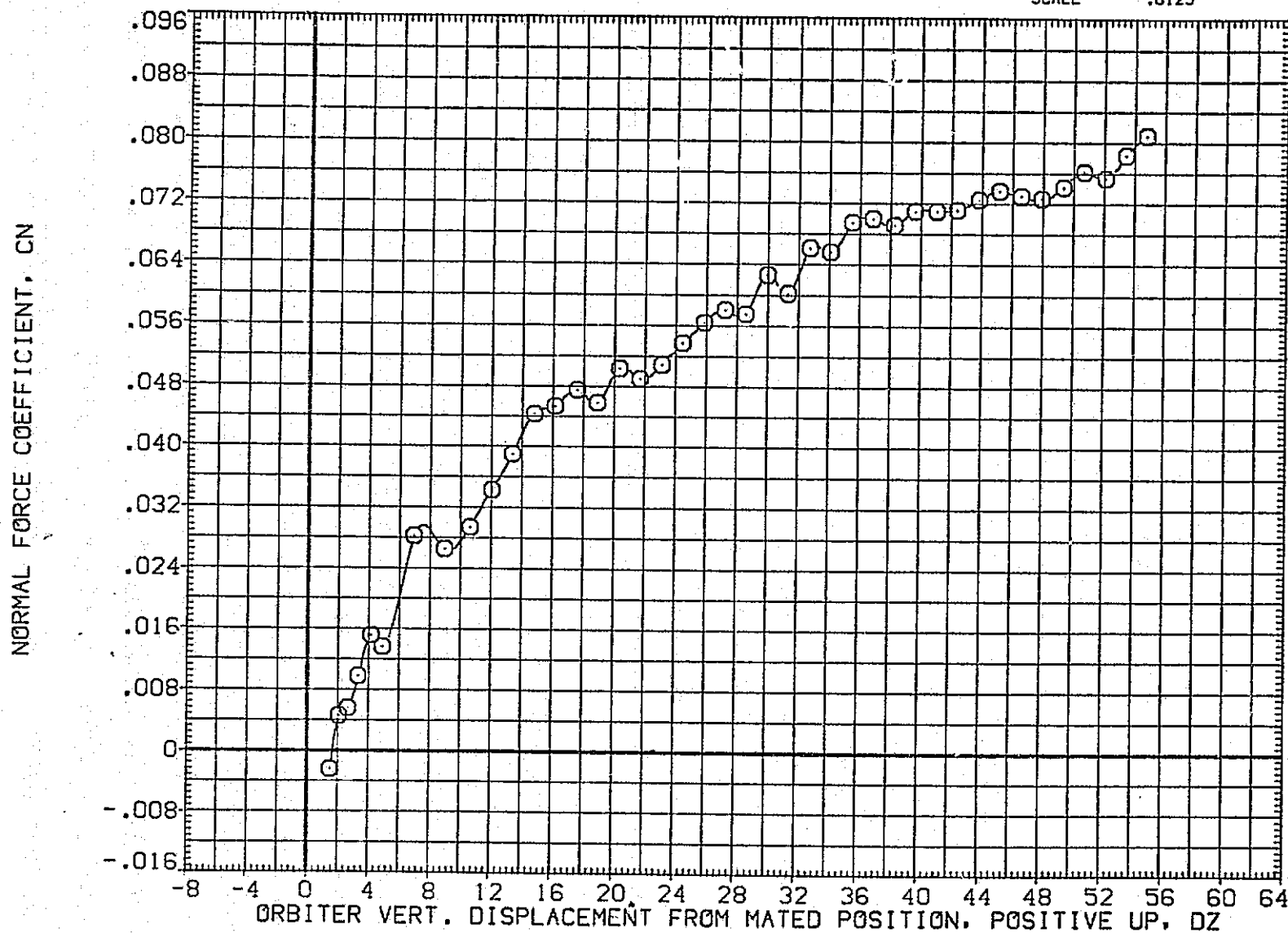


FIG.229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

SYMBOL	MACH	PARAMETRIC VALUES			
○	.60	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	OX	.000
		DY	.000	IORB	6.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

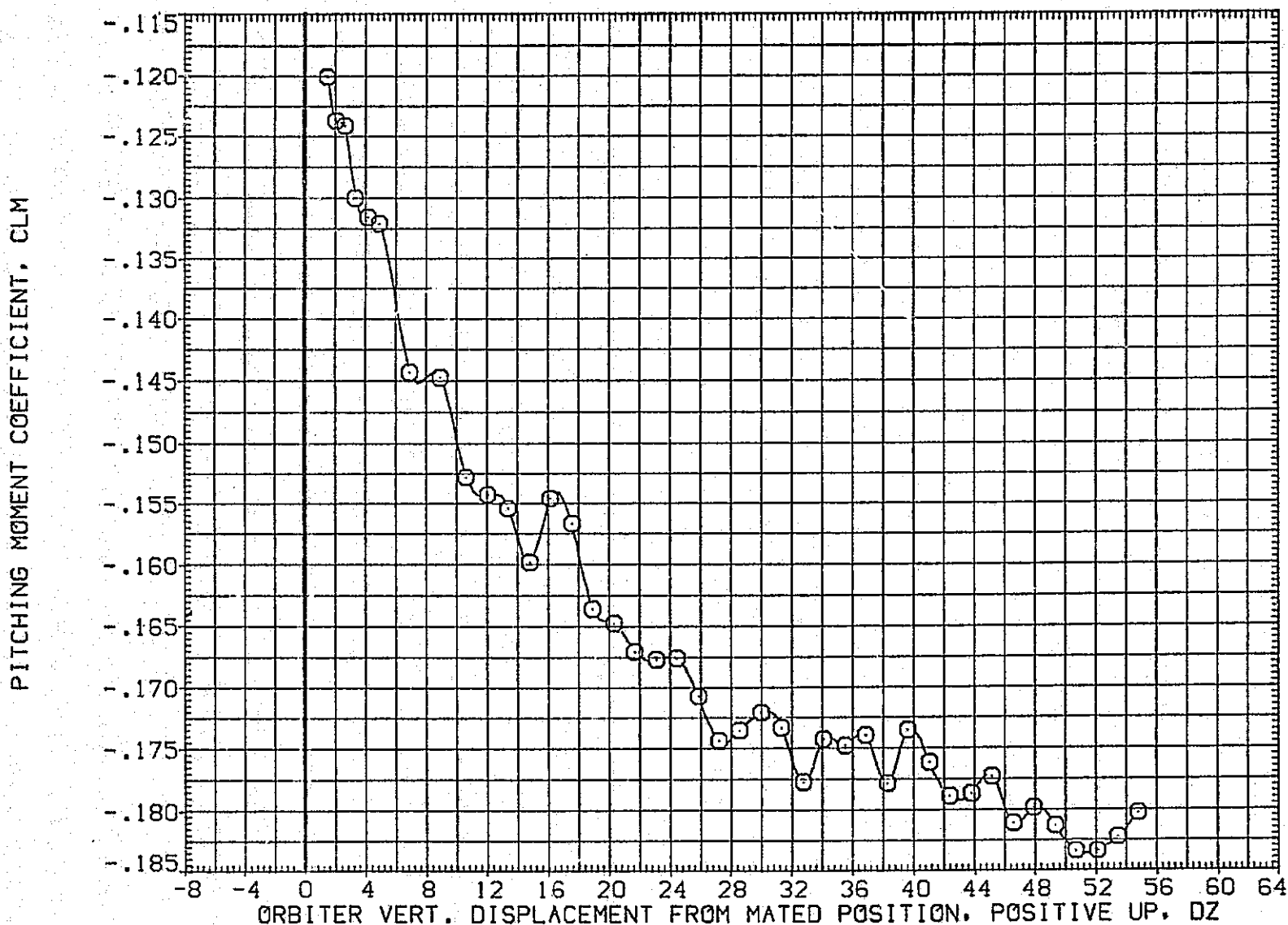


FIG. 229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE125)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

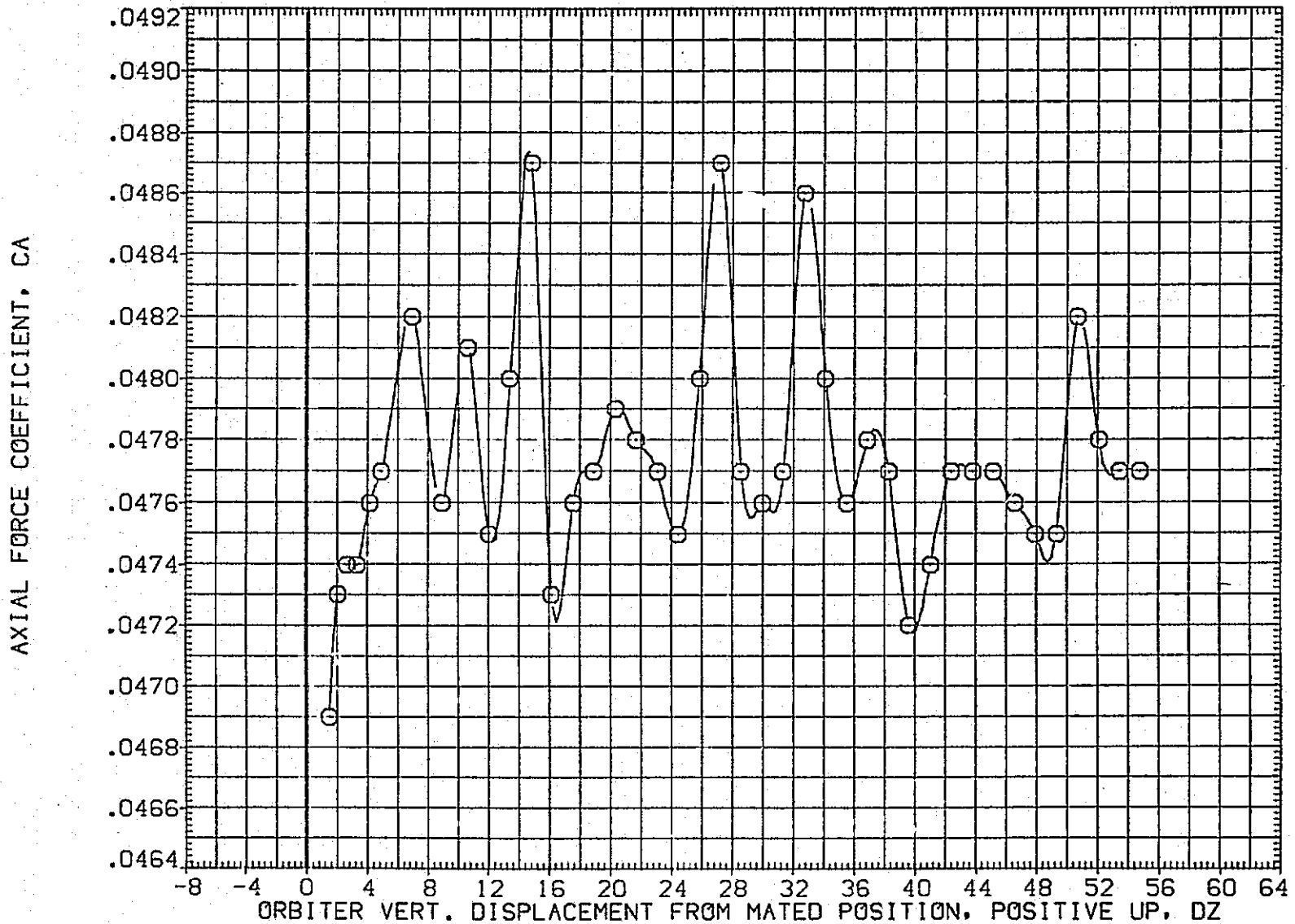


FIG.229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

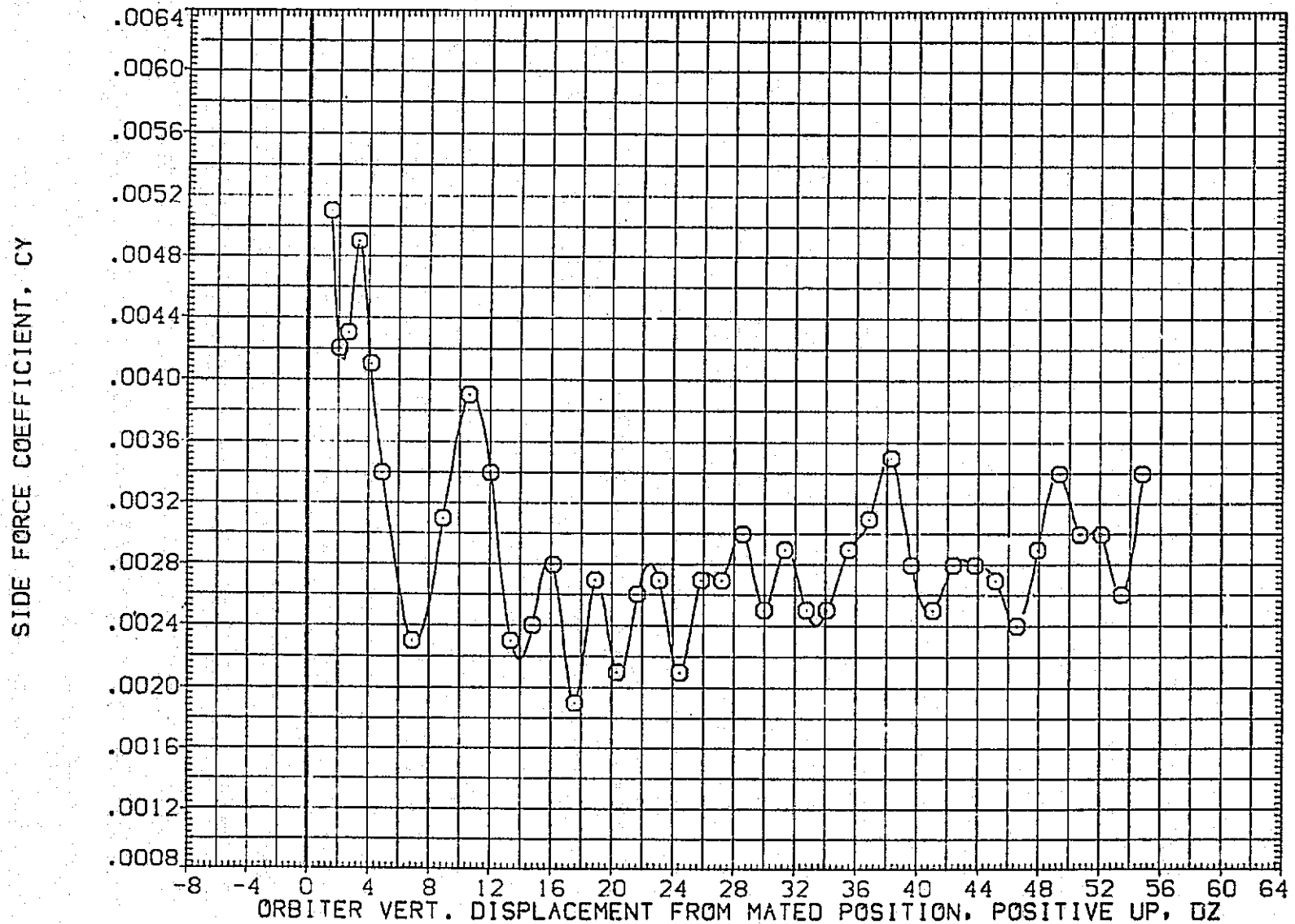


FIG.229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE125)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.604	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

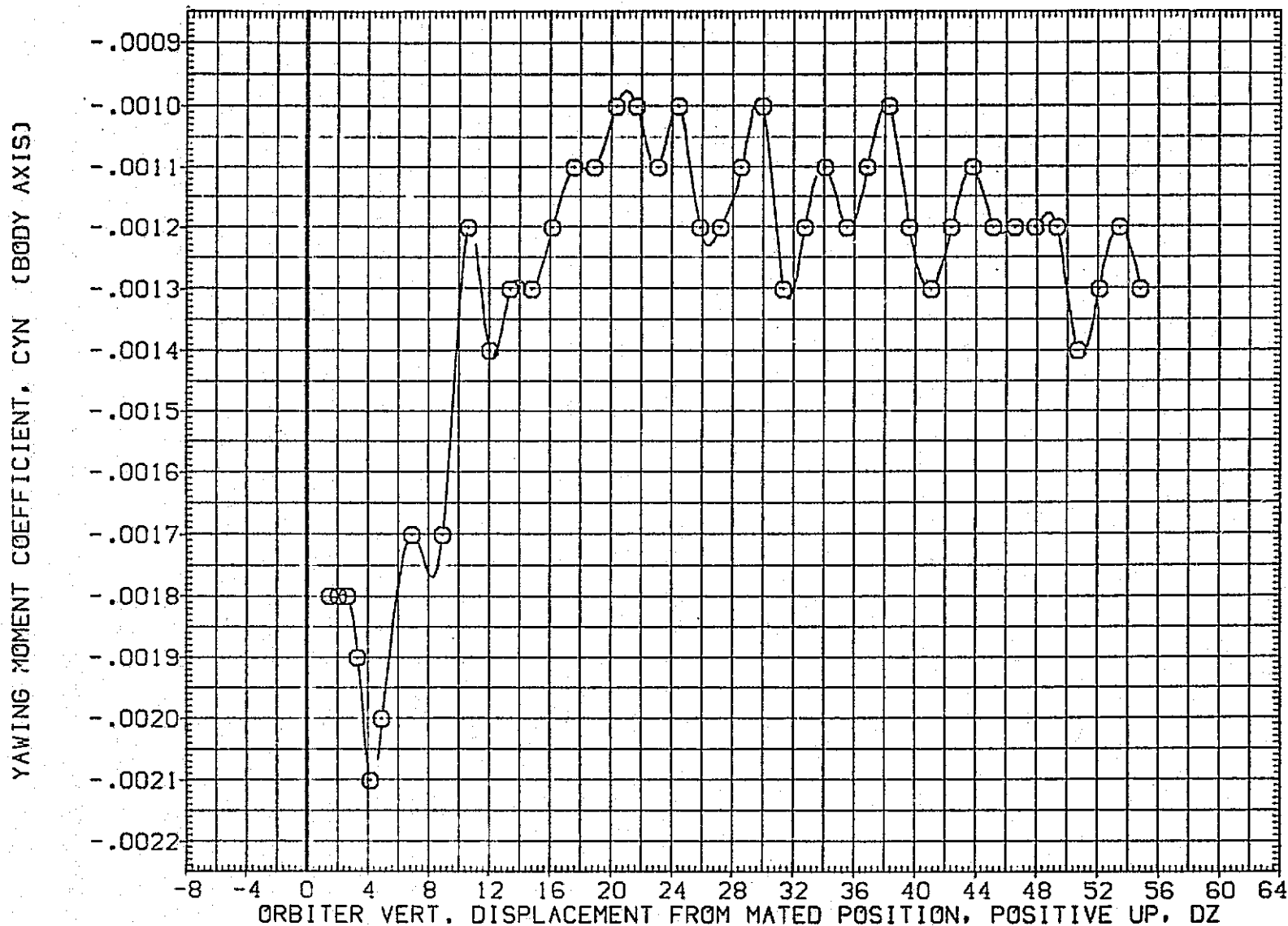


FIG. 229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

SYMBOL

O

MACH

.604

PARAMETRIC VALUES

ALPHAC	.000	BETAC	.000
STAB	5.000	RUDDER	.000
ELEVON	.000	OX	.000
OY	.000	IORB	6.000
BETA0	.000	DPHI	.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

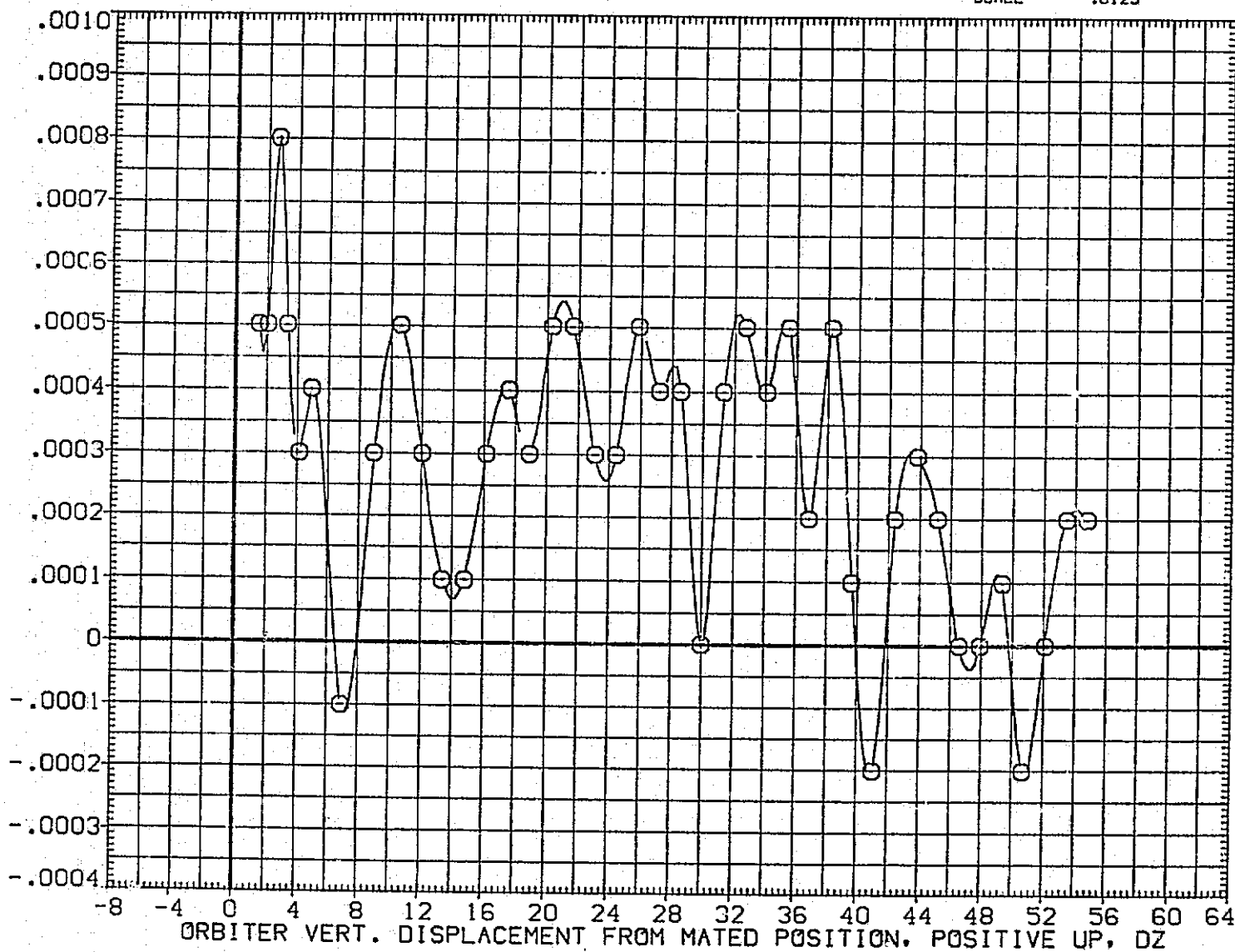


FIG. 229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE125)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.604	ALPHAC	.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

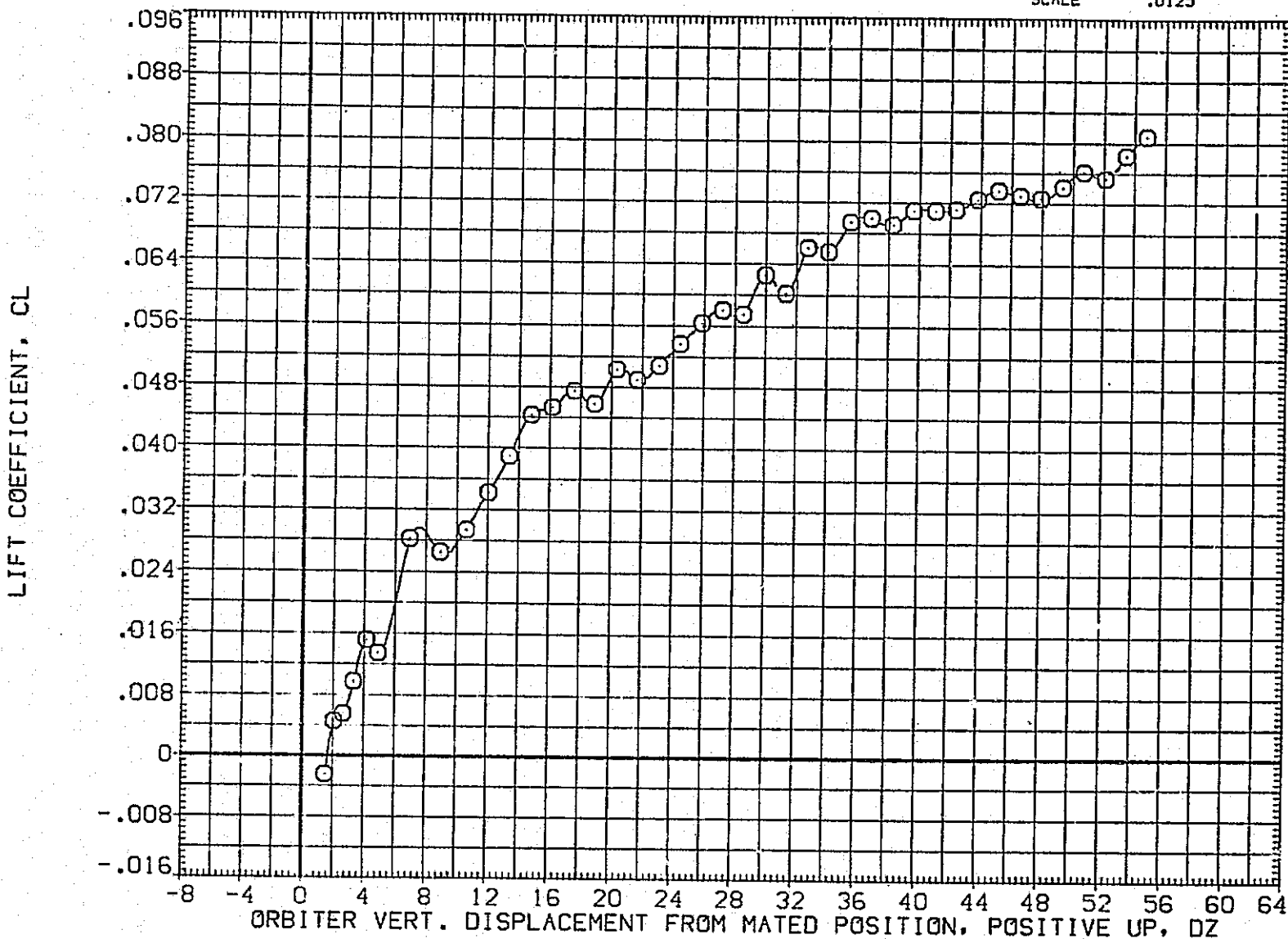


FIG.229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	RUDDER	DX	YMRP	ZMRP	SCALE
○	.604	.000	.000	.000	.000	SREF 5500.0000	SG.FT.	
		5.000	.000	.000	.000	LREF 327.7800	IN.	
		.000	.000	.000	.000	BREF 2348.0400	IN.	
		.000	.000	.000	.000	XMRP 1339.9000	IN.	YC
		.000	.000	.000	.000	YMRP .0000	IN.	YC
		.000	.000	.000	.000	ZMRP 190.7500	IN.	ZC
						SCALE .0125		

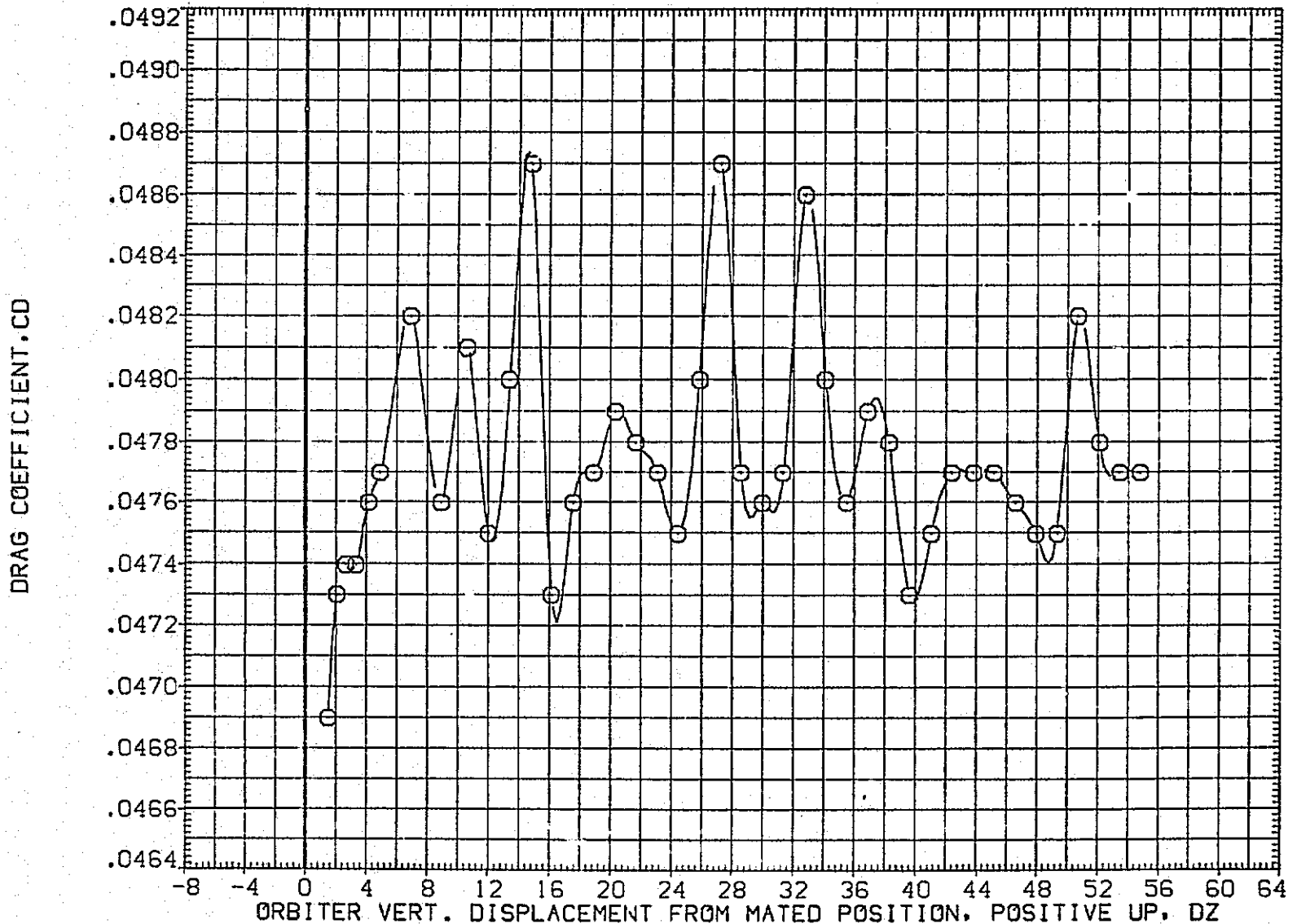


FIG.229 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=6, BETAC=0, BETA0=0, RFE125

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE126)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	OPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

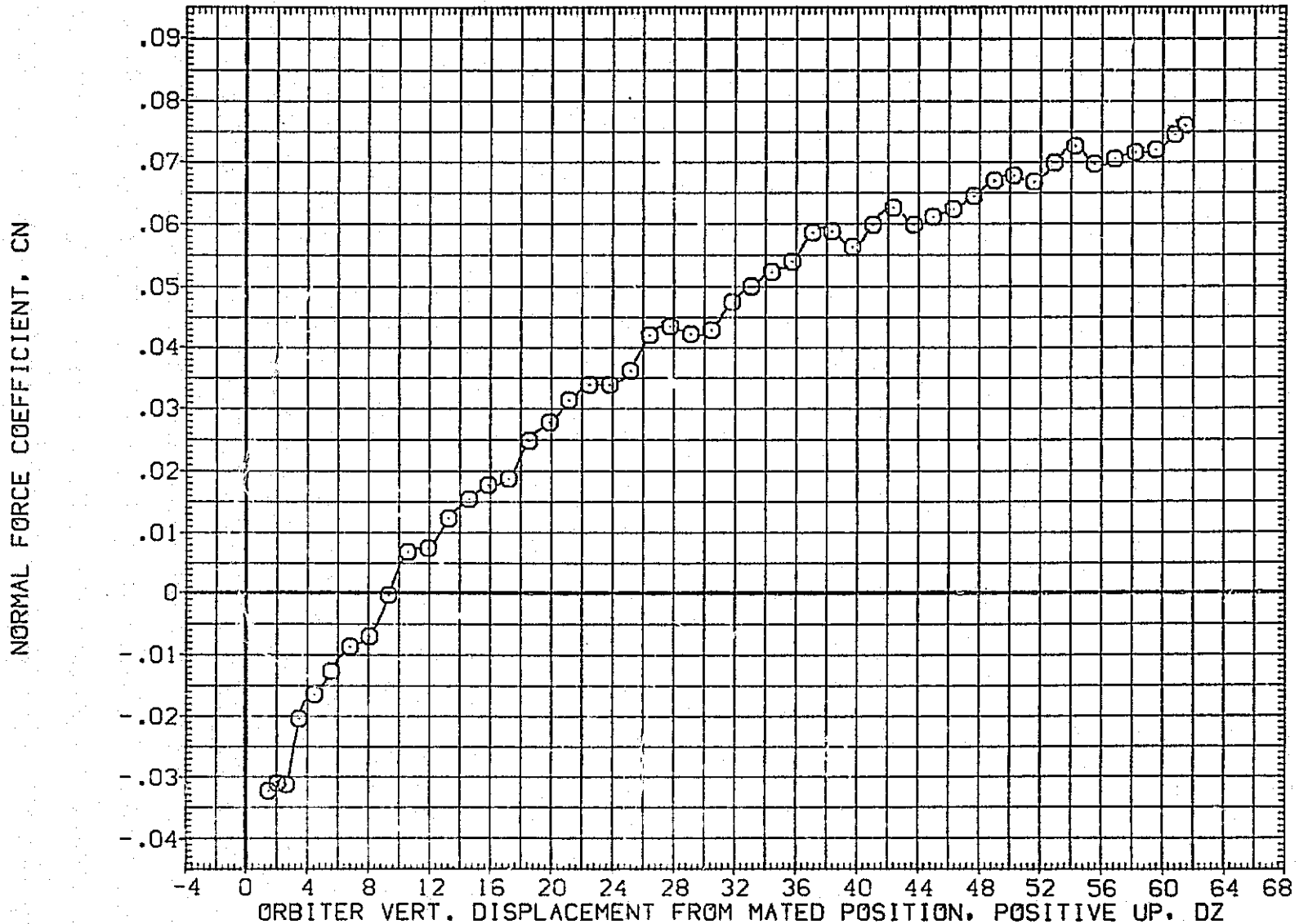


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

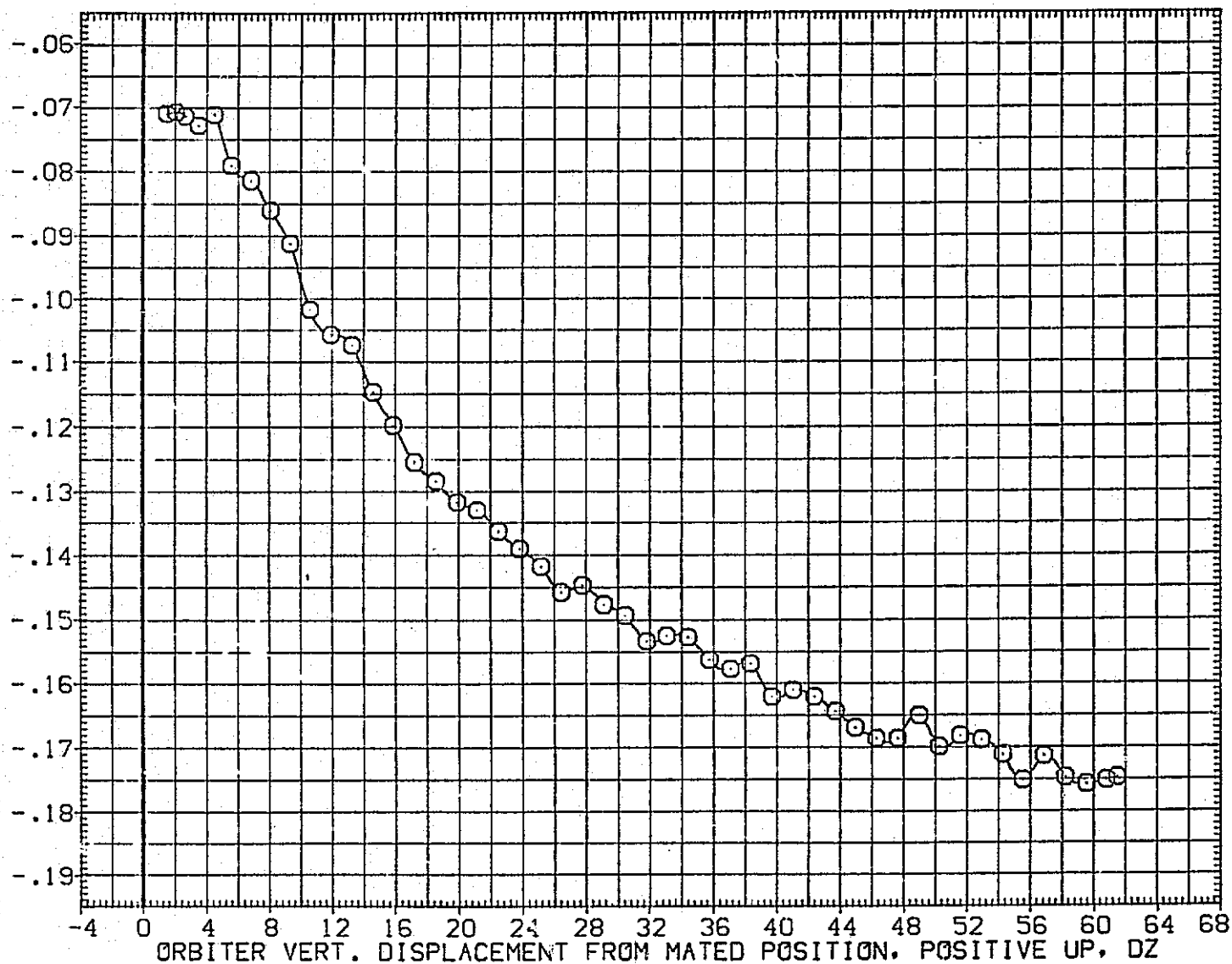


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE126)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

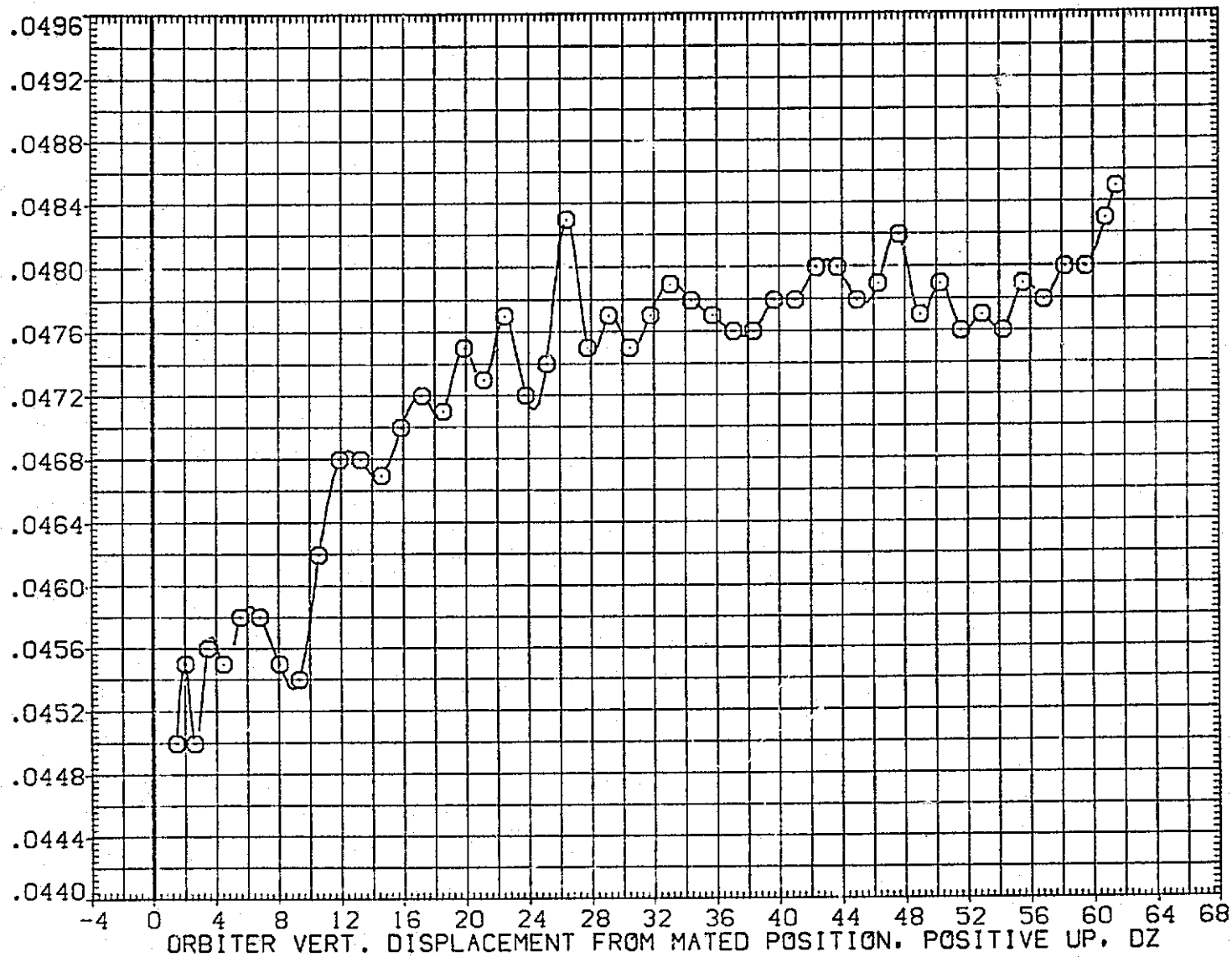


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETAJ	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

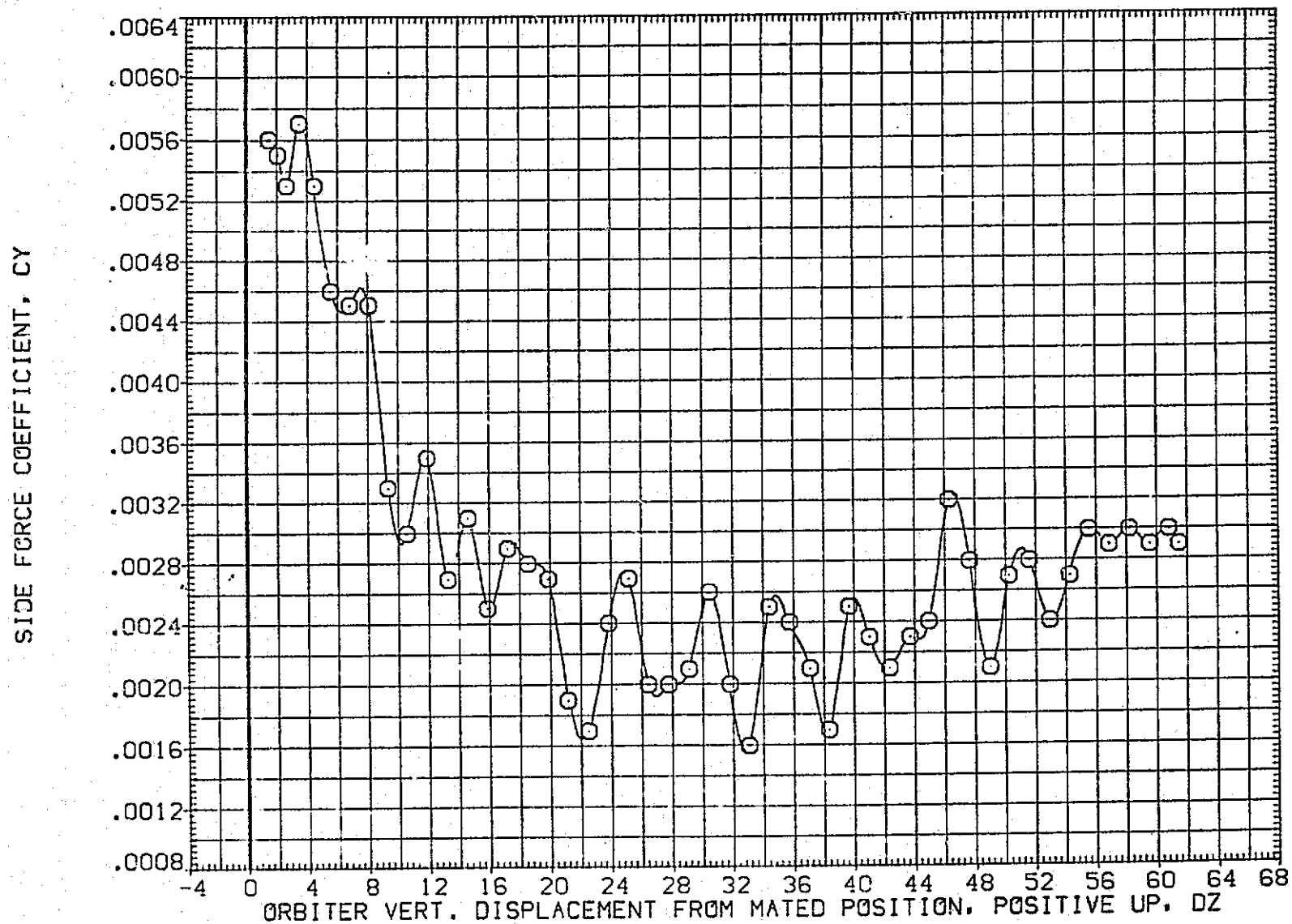


FIG. 230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETAJ=0, RFE126

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE126)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETAG	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

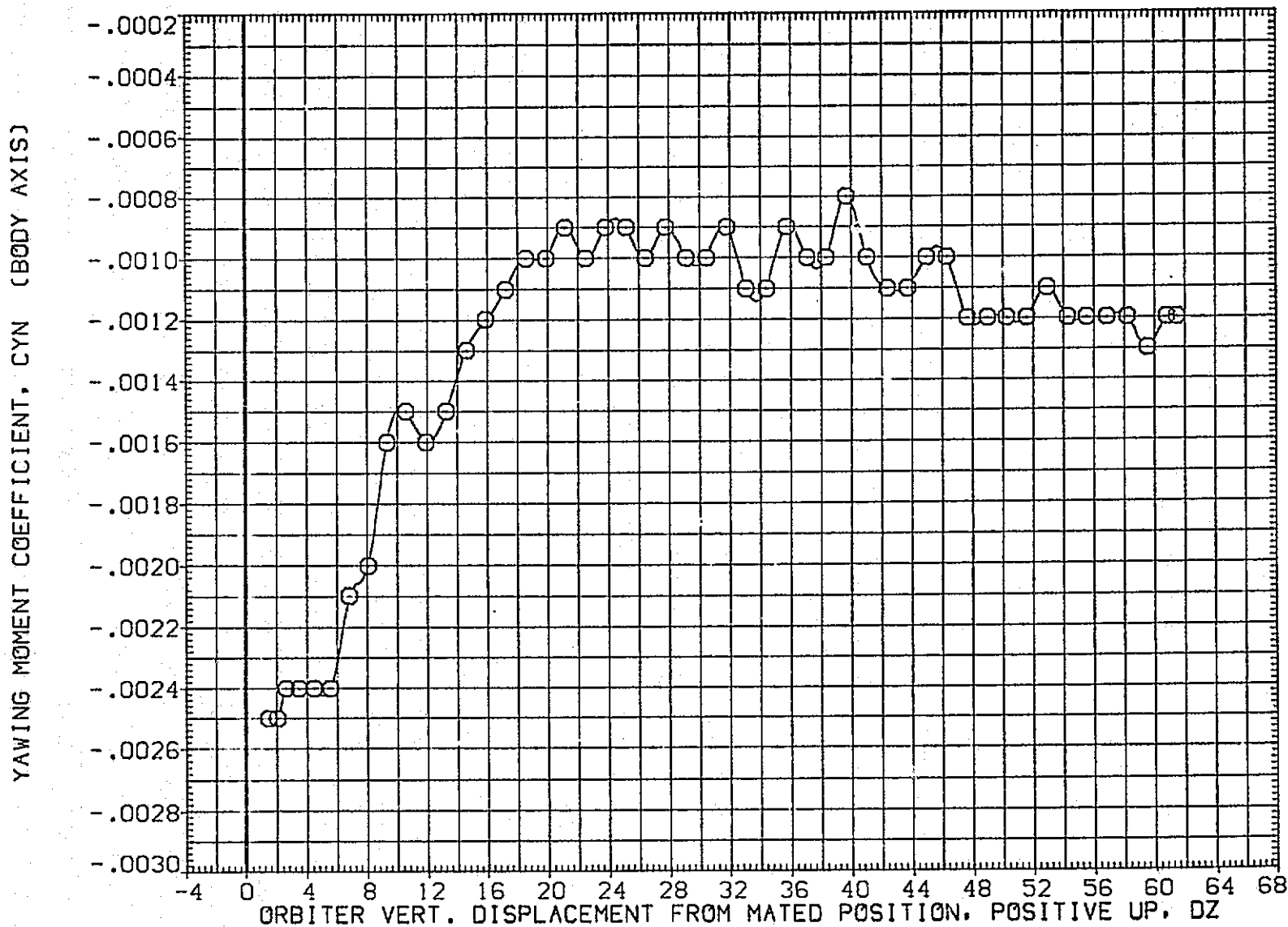


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETAG=0, RFE126

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	DPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

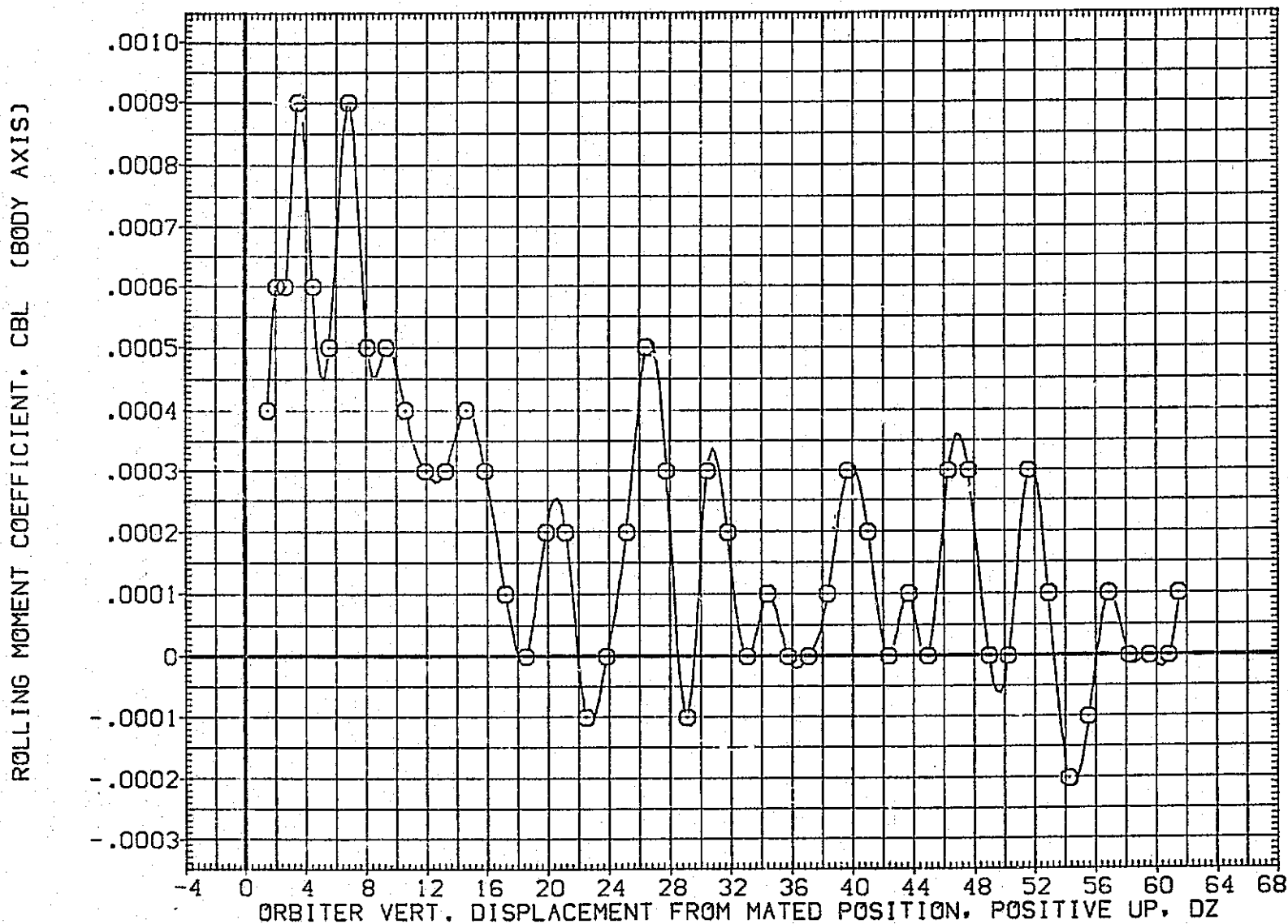


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE126)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.600	ALPHAC	.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	8.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	.000	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

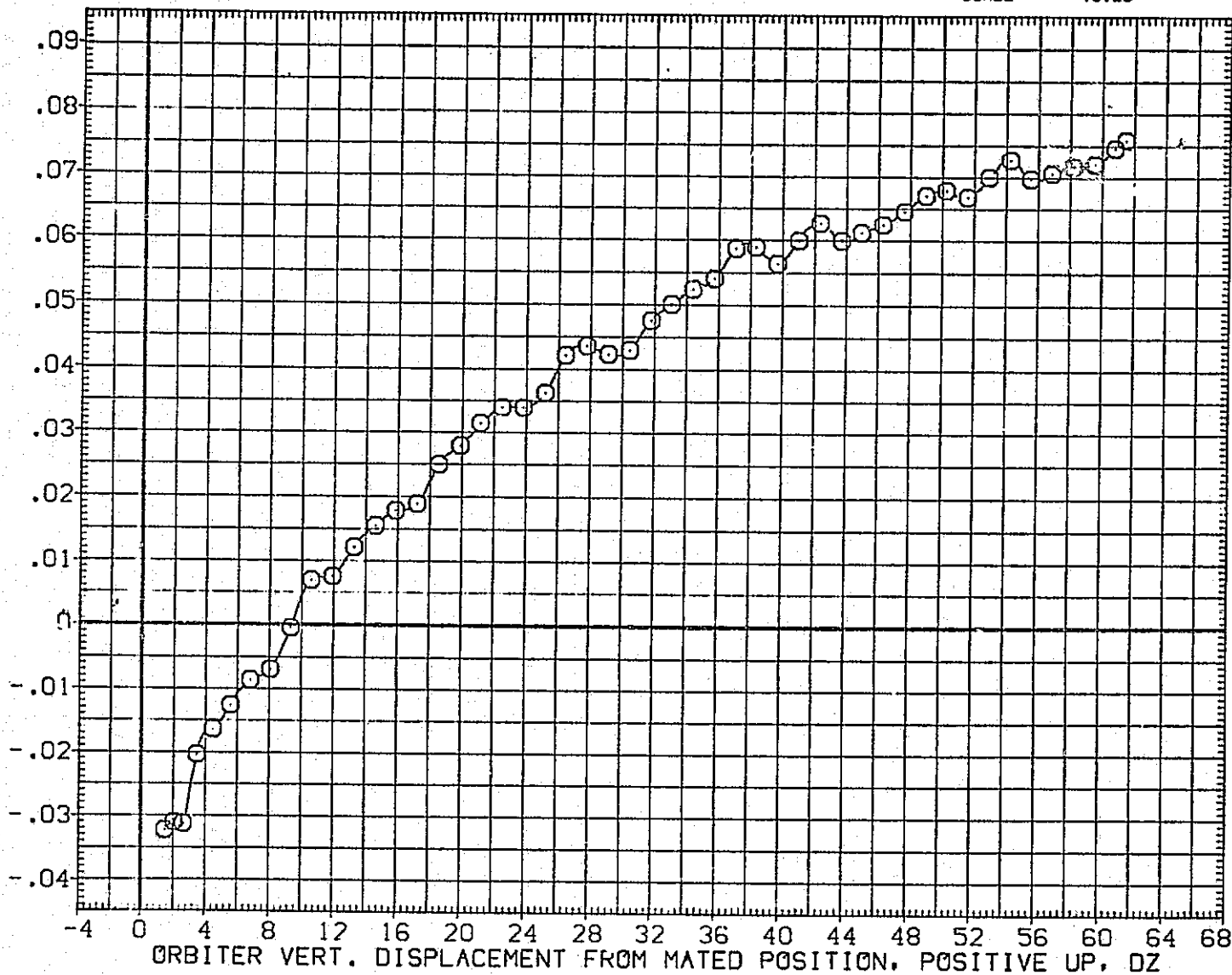


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE126)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.600	ALPHAC	.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	8.000
		BETA0	.000	OPHI	.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

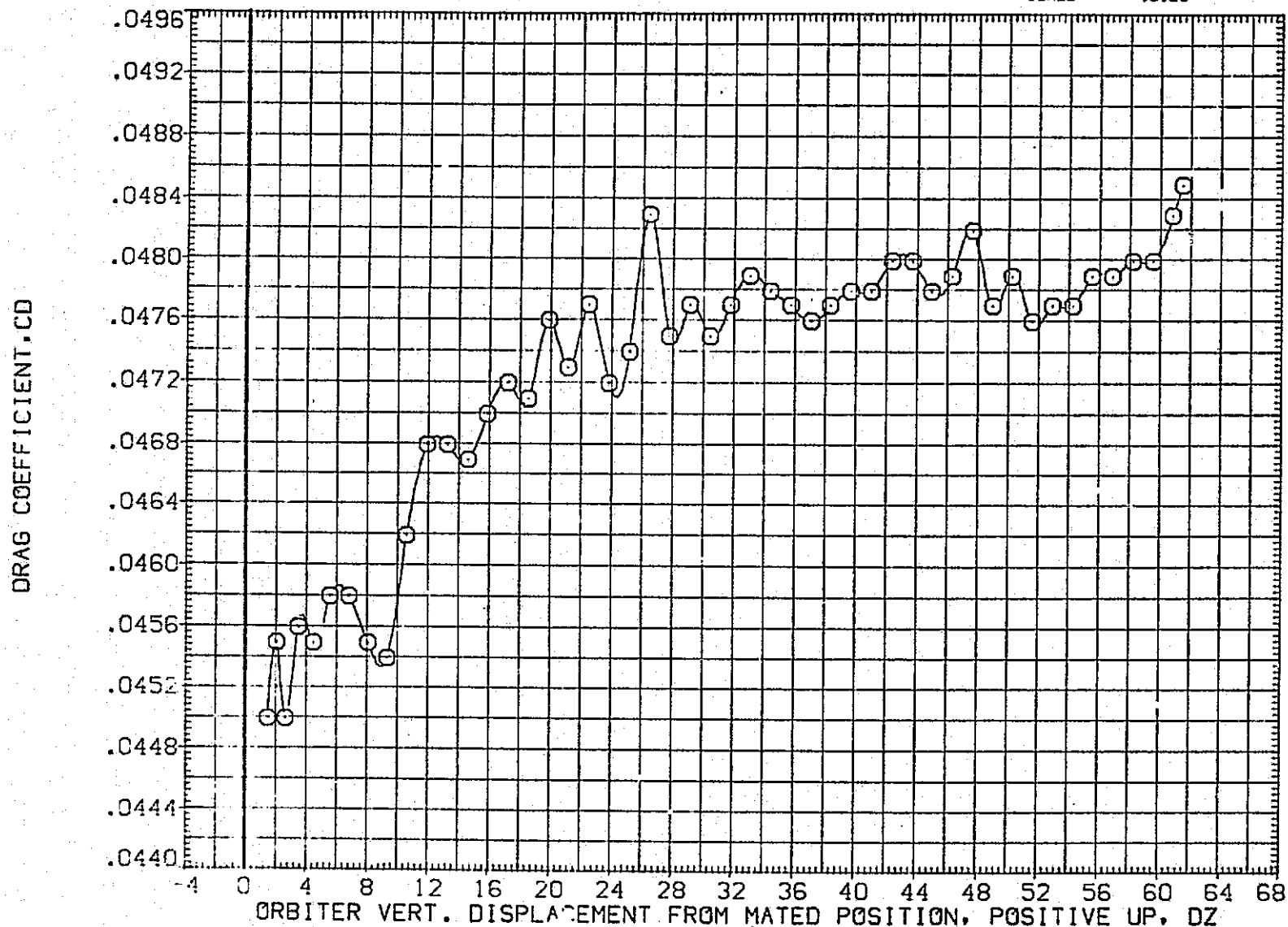


FIG.230 CARRIER DATA, ORB. PROXIMITY, ALPHAC=0, IORB=8, BETAC=0, BETA0=0, RFE126

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE127)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	10RB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

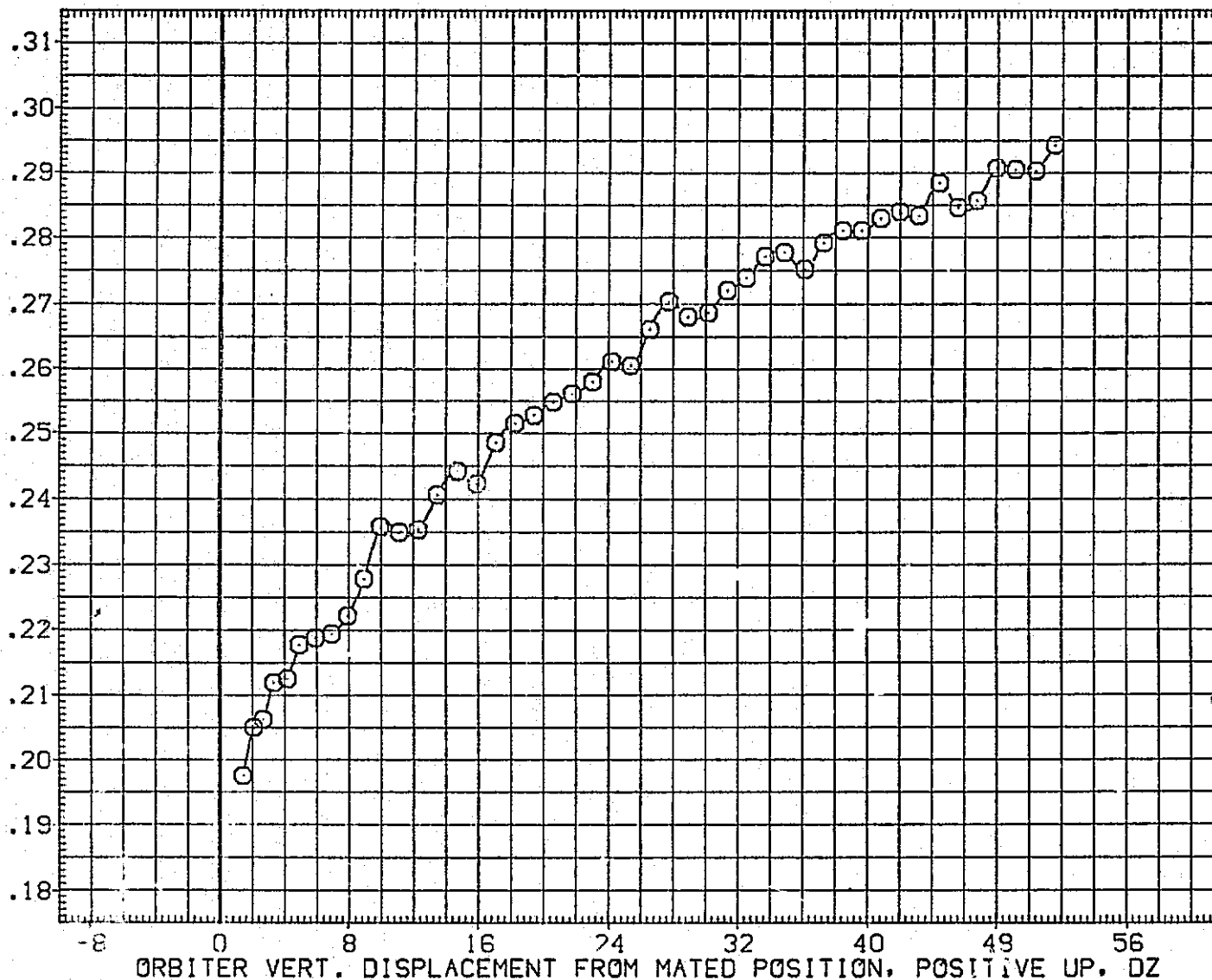


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, 10RB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

SYMBOL	MACH	PARAMETRIC VALUES					
○	.605	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	RUDDER	.000		
		ELEVON	.000	OX	.000		
		OY	.000	IORB	6.000		
		BETA0	.000	DPHI	7.500		

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

PITCHING MOMENT COEFFICIENT, CLM

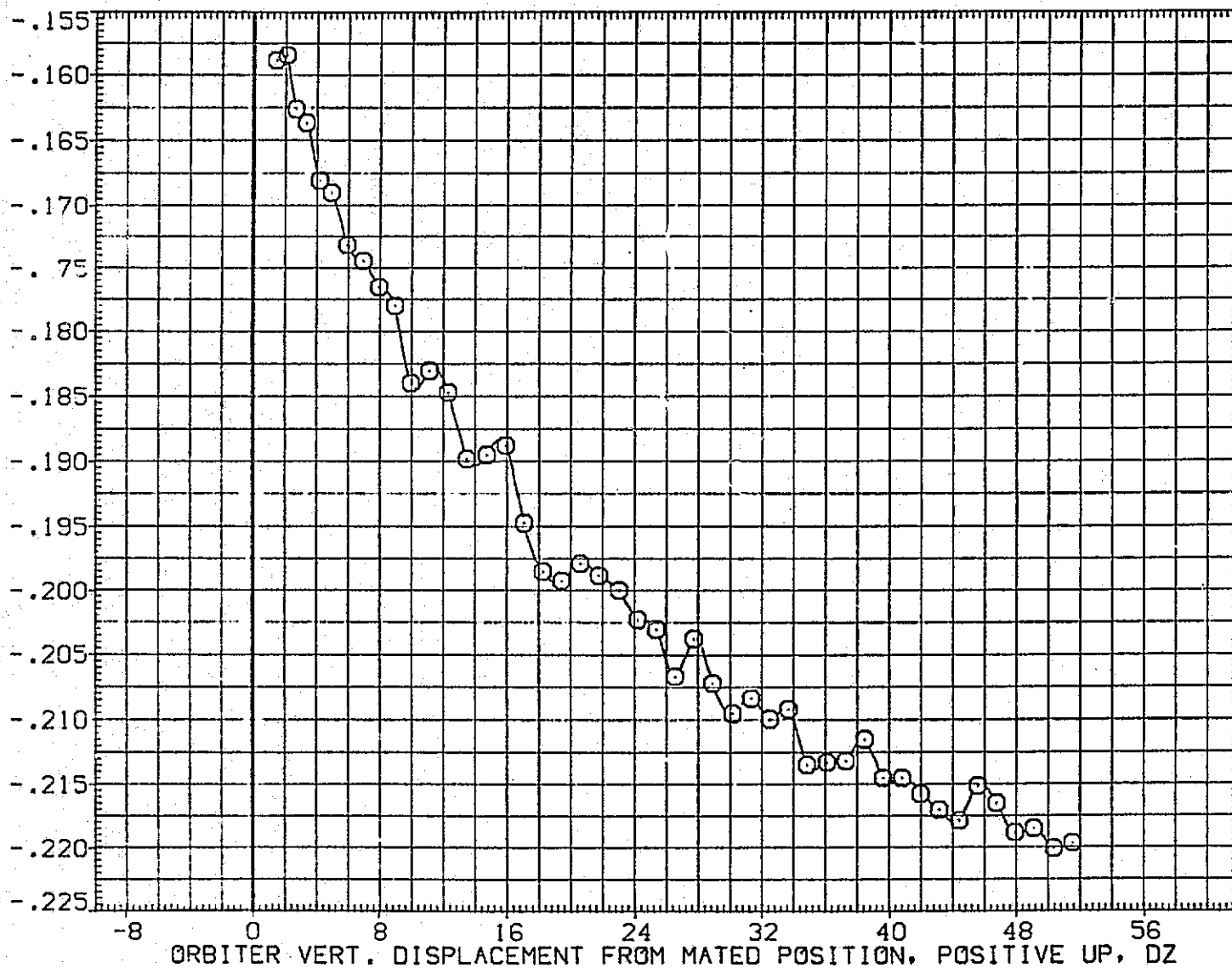


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE127)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	OPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

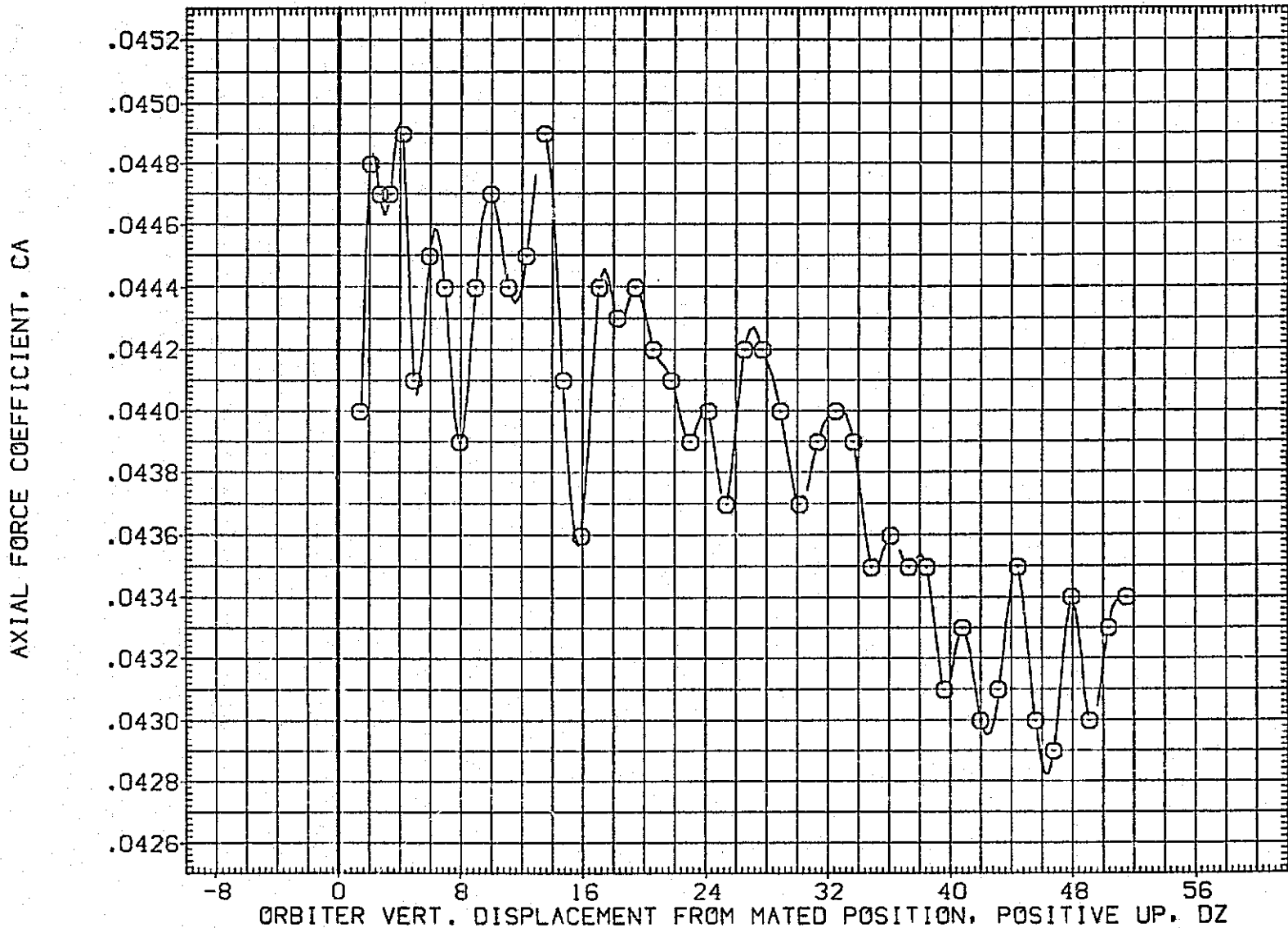


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SO.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETAD	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

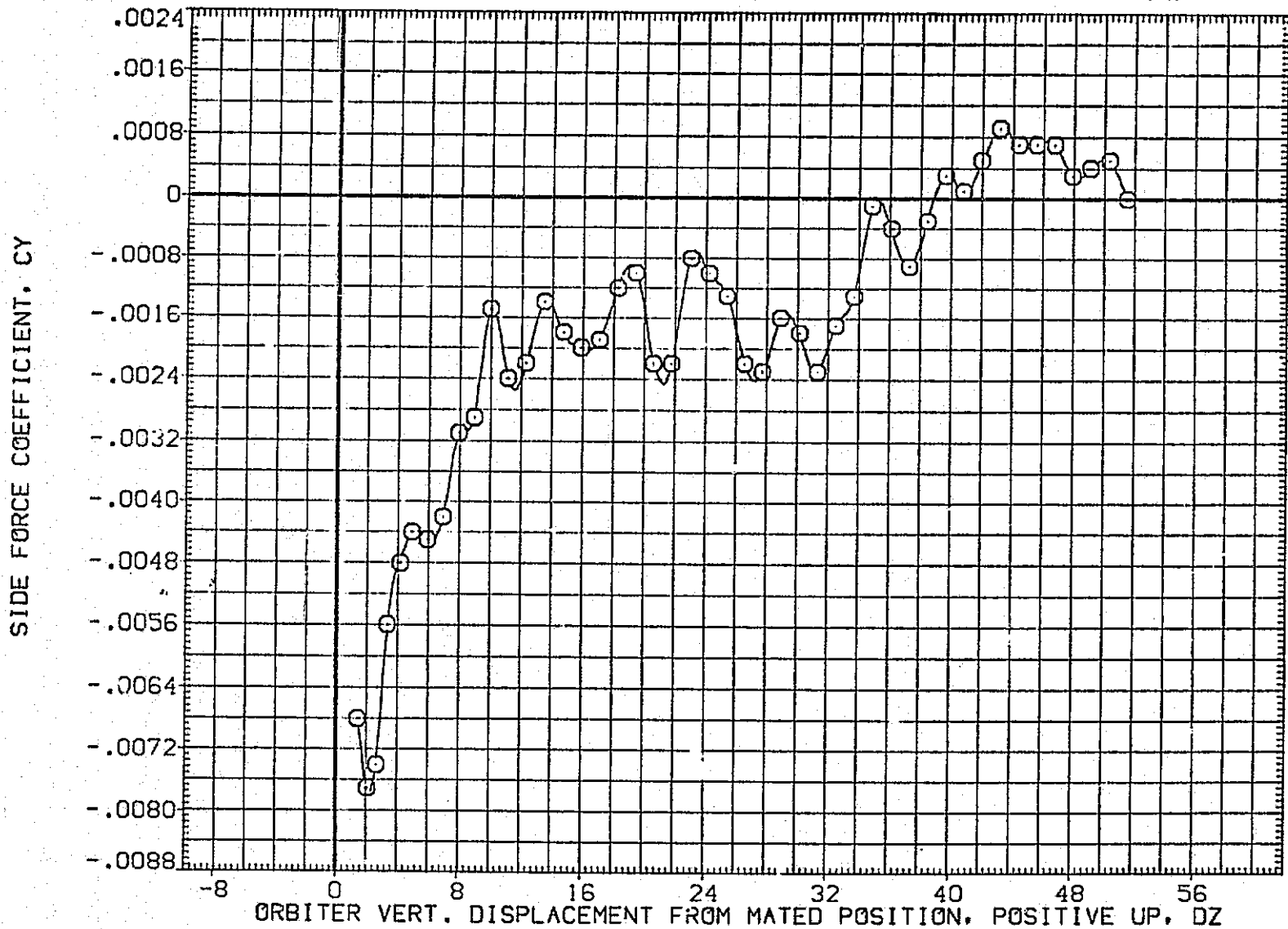


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BET J=0, DELPHI=7.5, RFE127

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE127)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

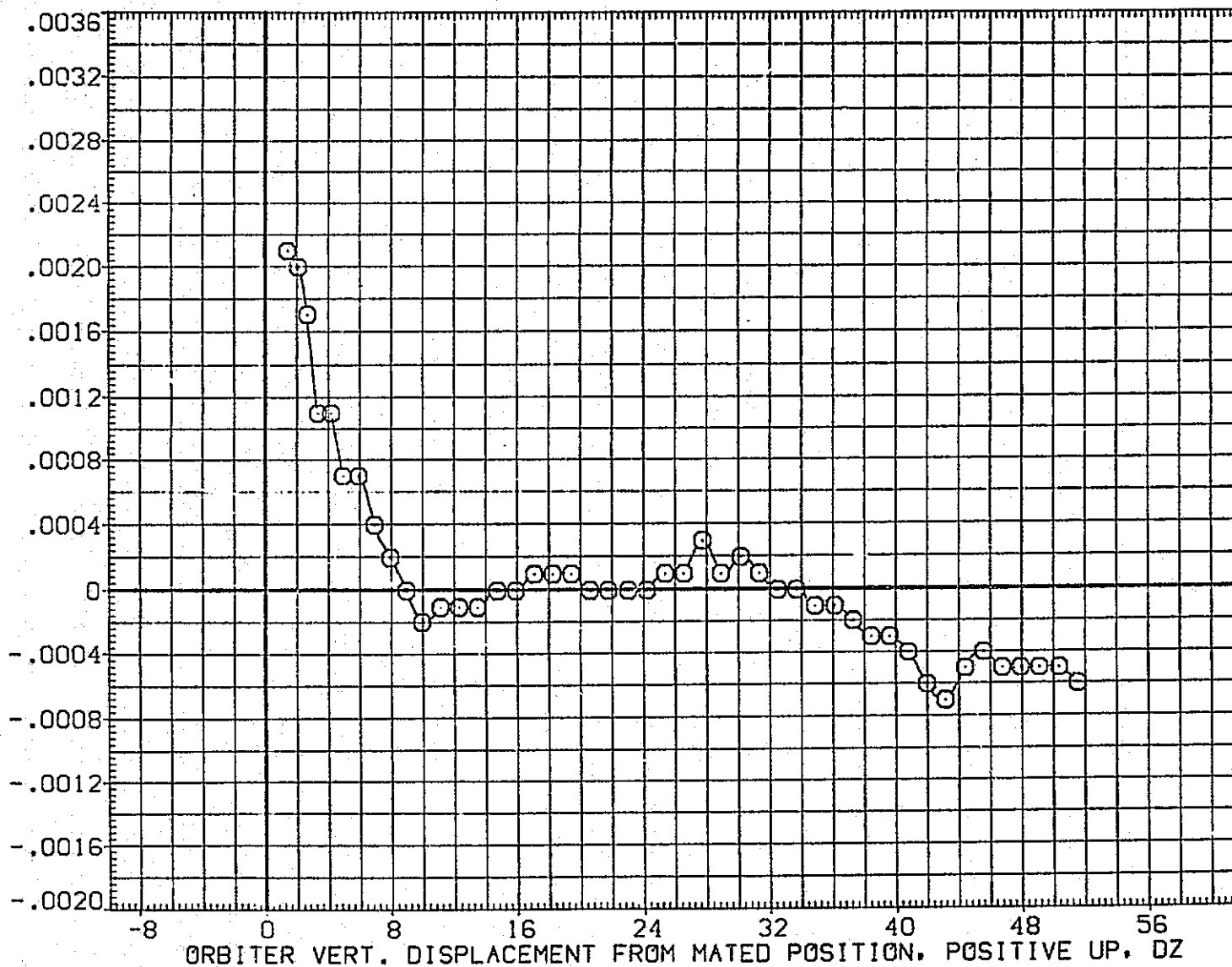


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

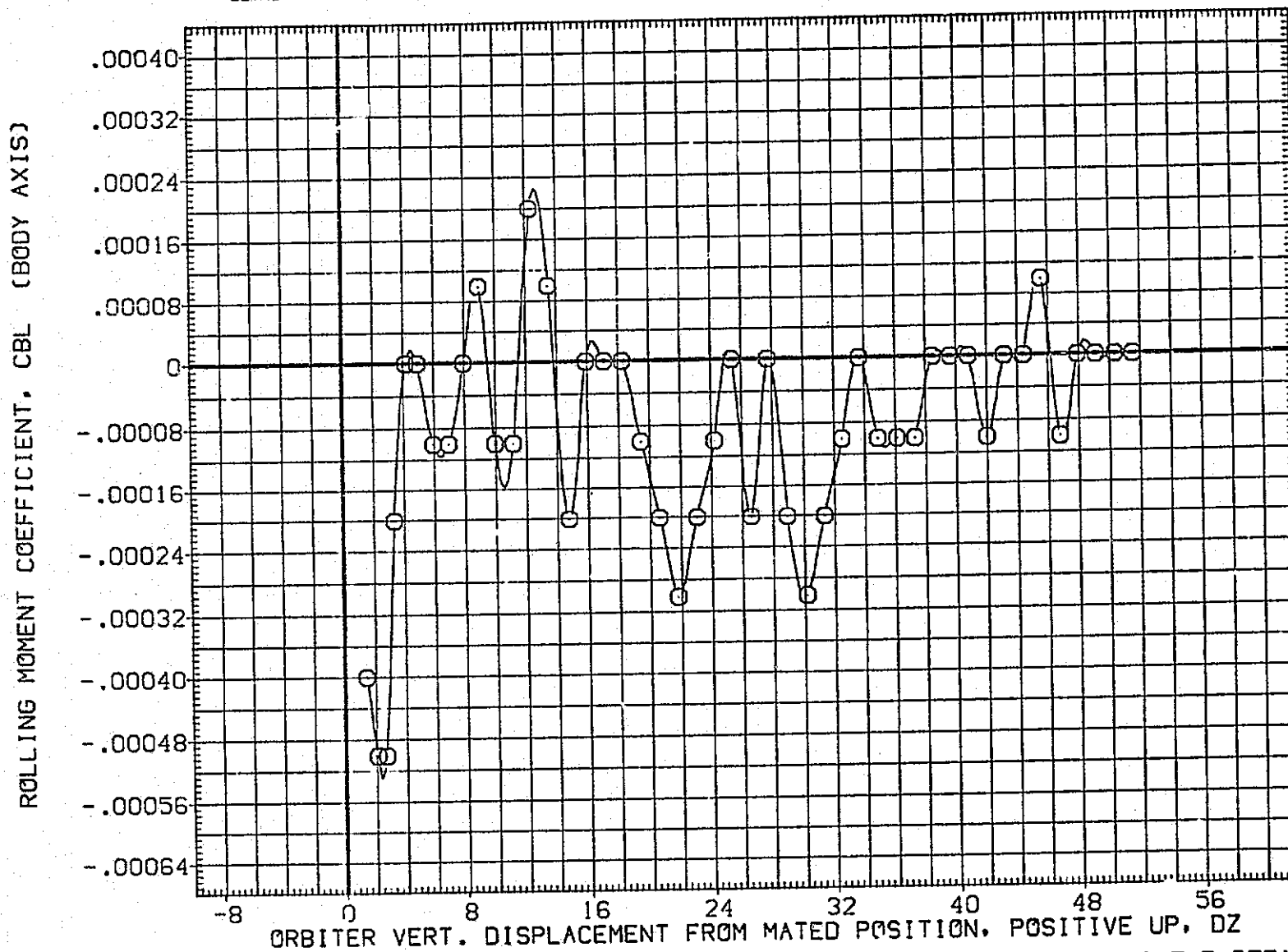


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

LTV44-559(CA26) 747/1 ATY 06 S1 (CARRIER DATA) (RFE127)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.605	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	RUDDER	.000	LREF	327.7800	IN.
		ELEVON	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

LIFT COEFFICIENT, CL

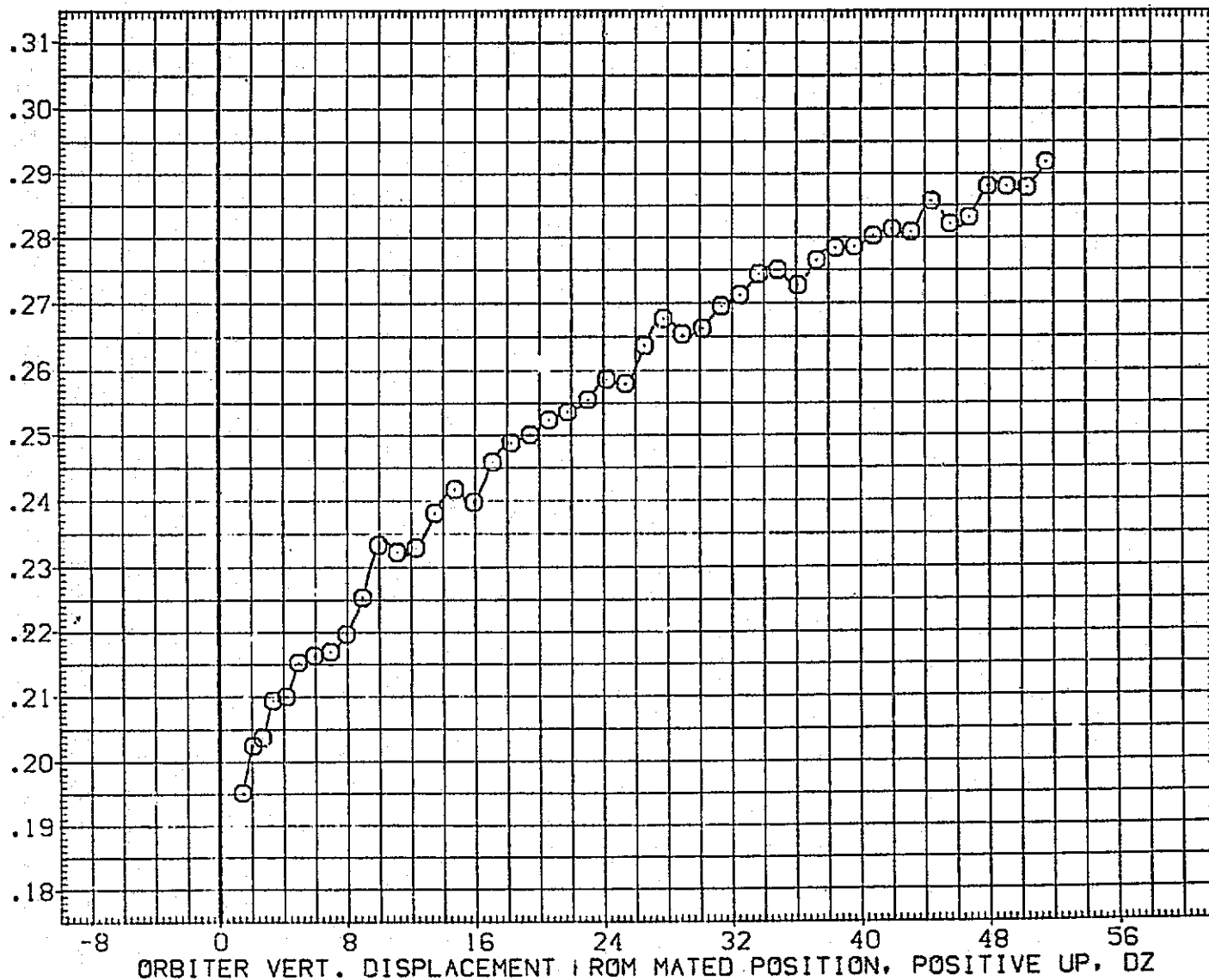


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

SYMBOL	MACH	PARAMETRIC VALUES			
○	.605	ALPHAC	2.000	BETAC	.000
		STAB	5.000	RUDDER	.000
		ELEVON	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

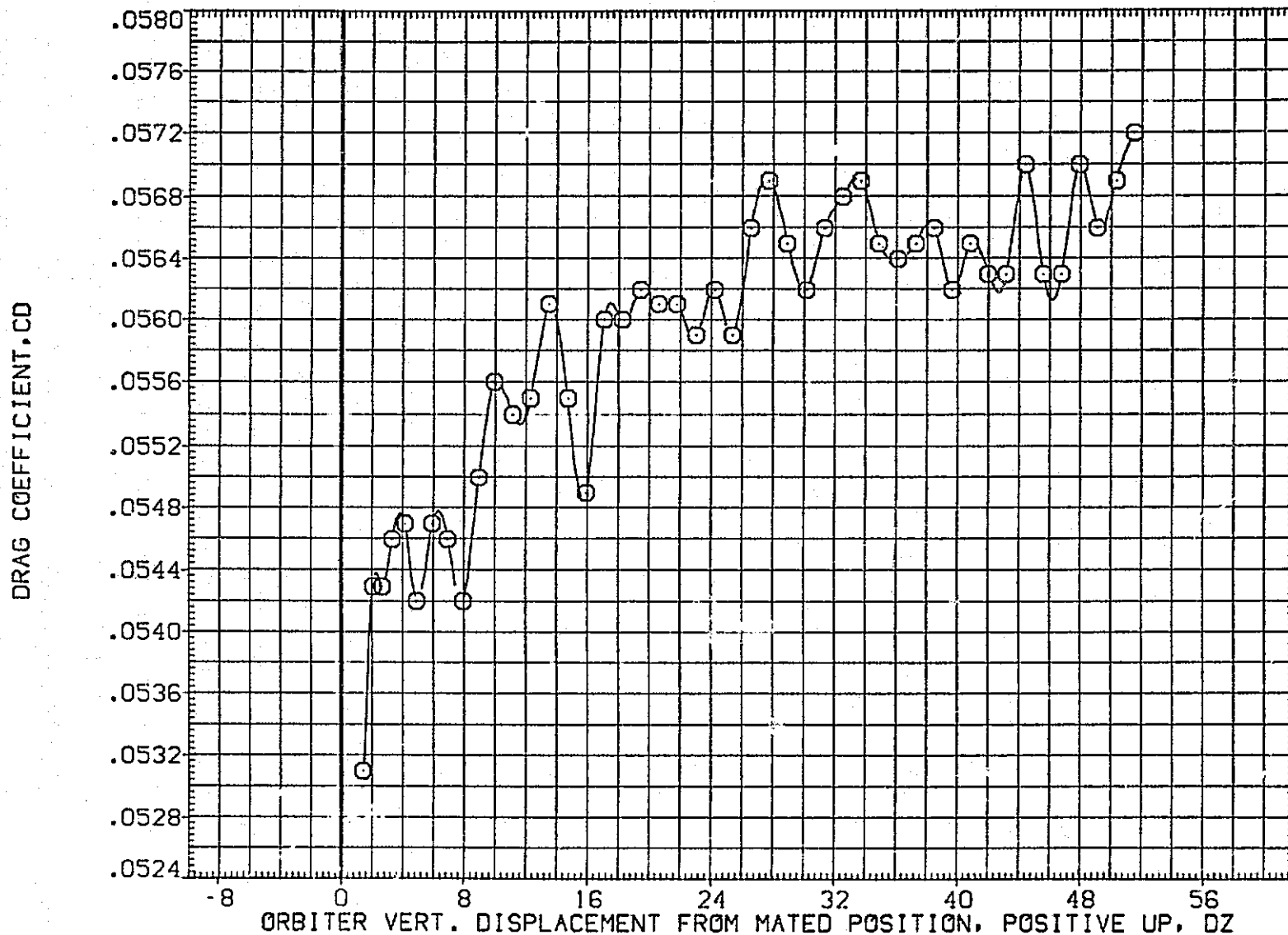


FIG.231 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE127

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE128)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.506	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

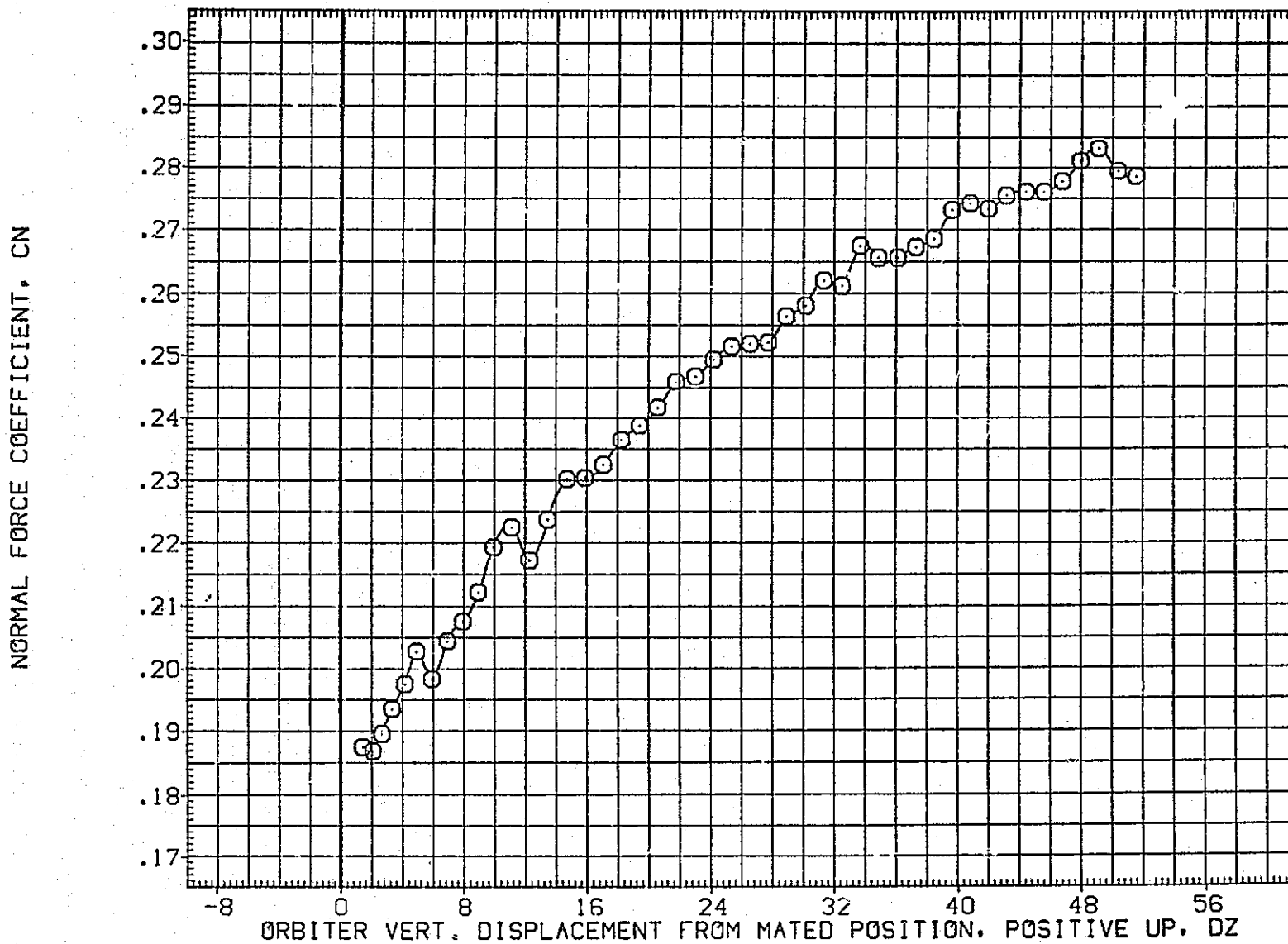


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

SYMBOL	MACH	PARAMETRIC VALUES					
○	.606	ALPHAC	2.000	BETAC	.000		
		STAB	5.000	ELEVON	5.000		
		RUDDER	.000	DX	.000		
		DY	.000	IORB	6.000		
		BETA0	.000	DPHI	7.500		

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

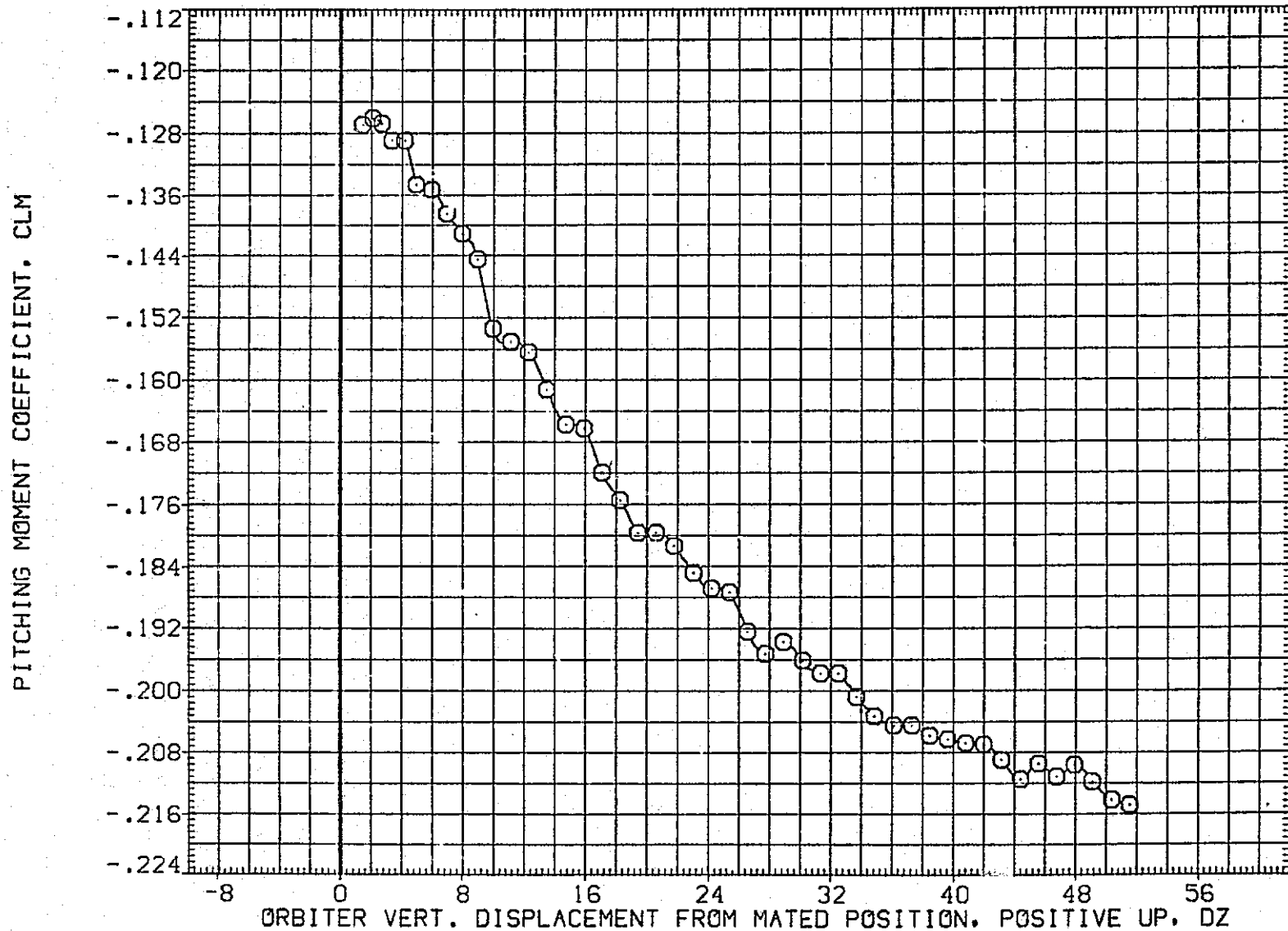


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE128)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.606	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	OX	.000
		OY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

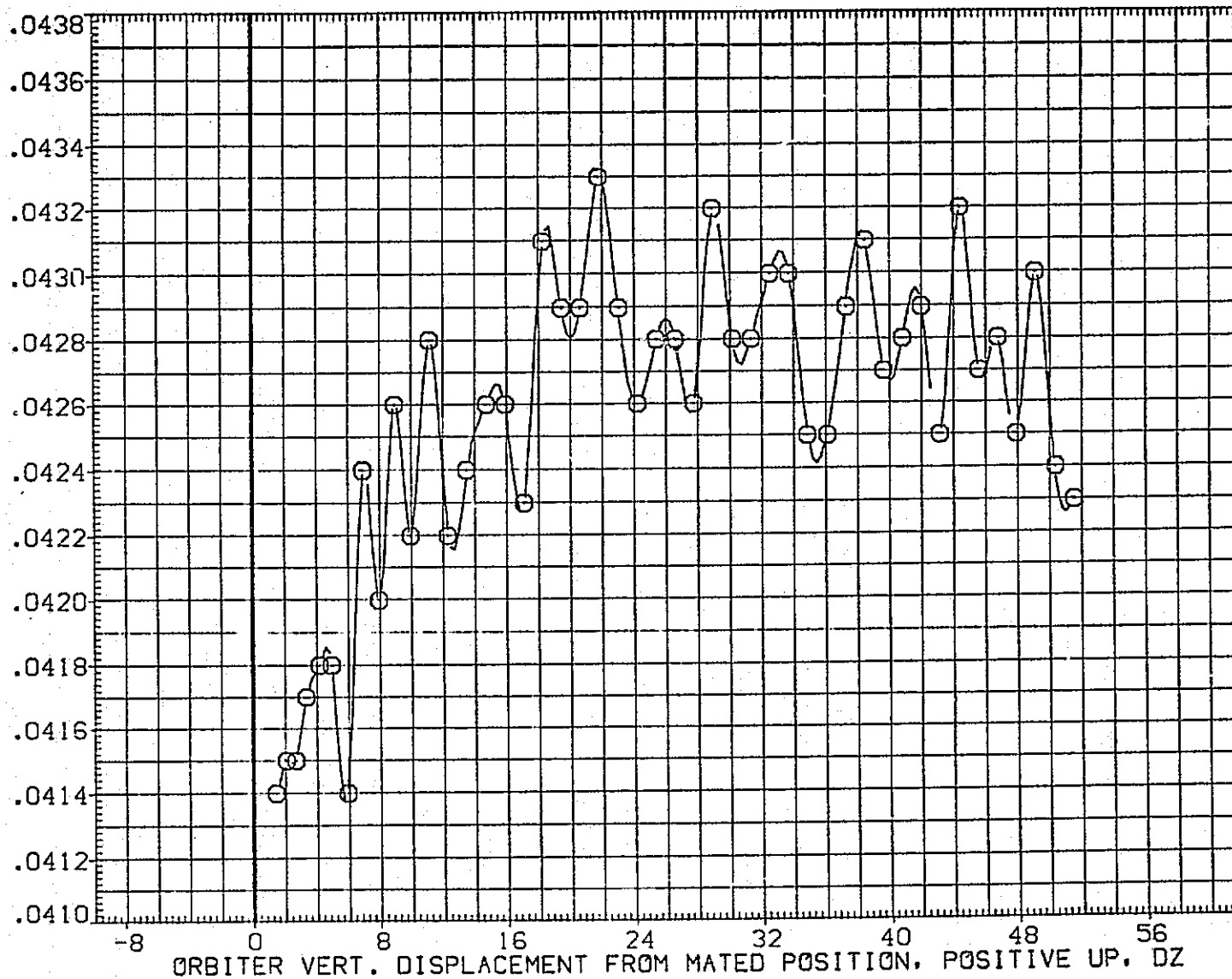


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

SYMBOL	MACH	PARAMETRIC VALUES			
○	.508	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

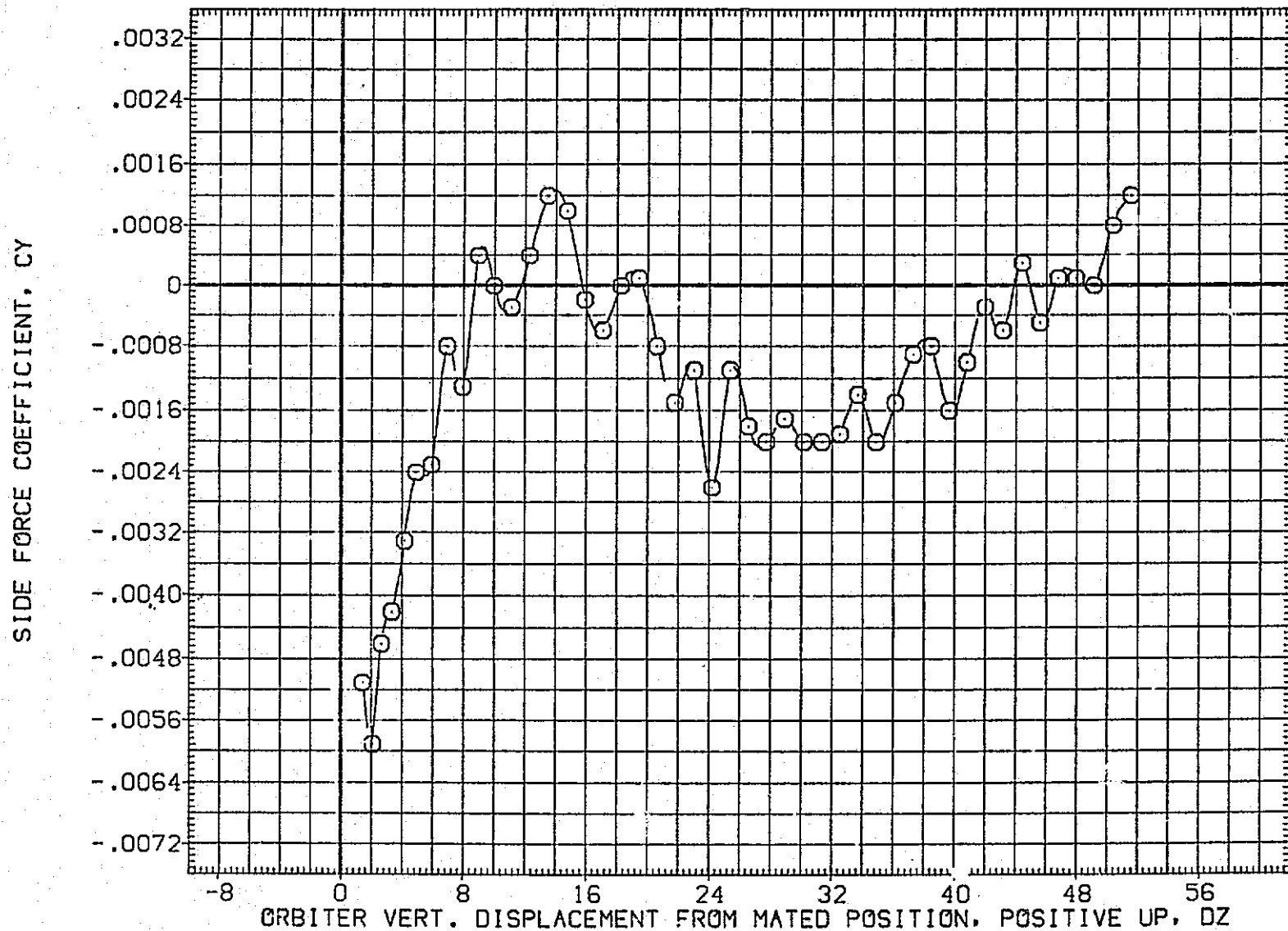


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE128)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.606	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPH:	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

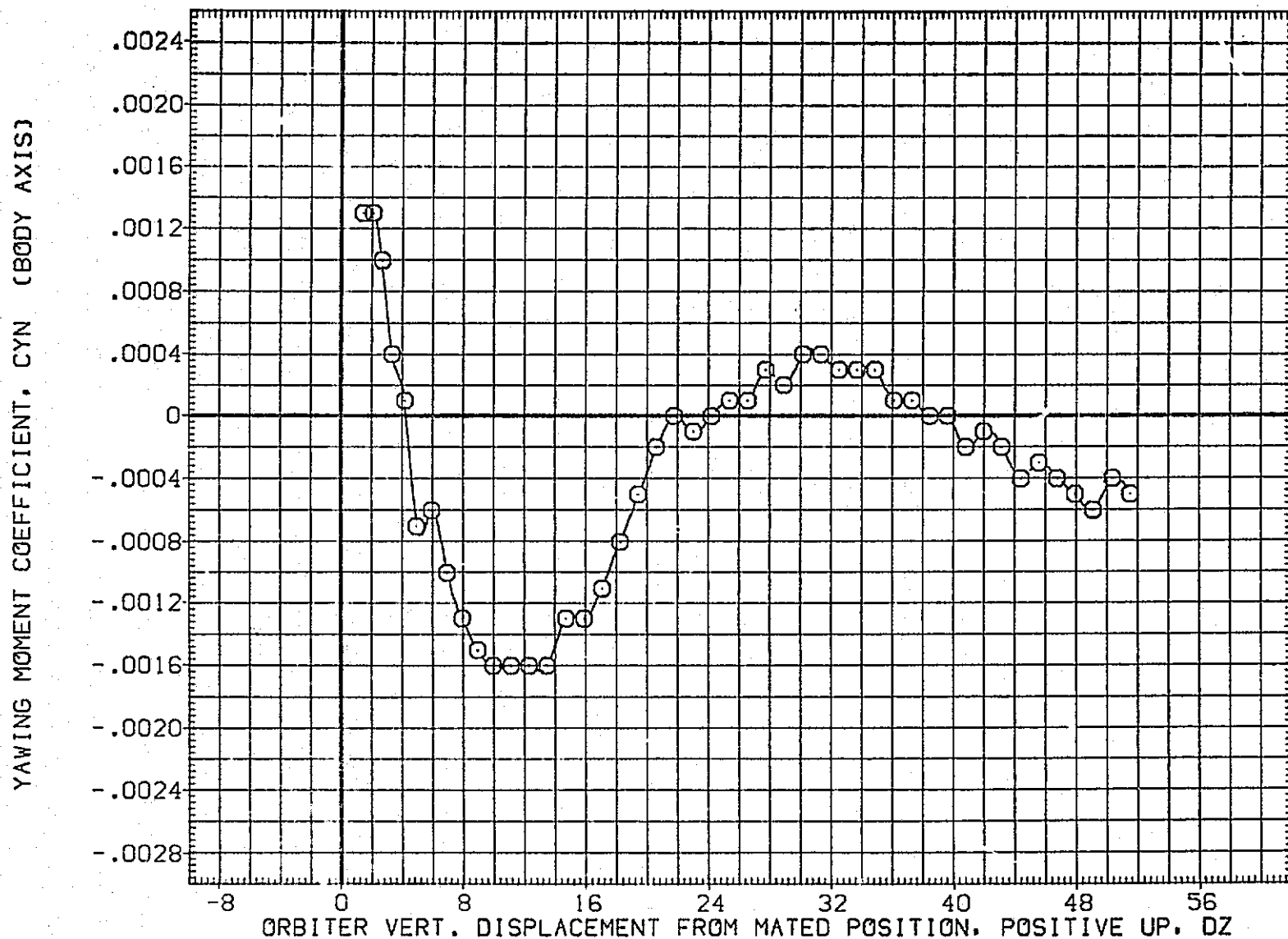


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

SYMBOL	MACH	PARAMETRIC VALUES			
○	.505	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

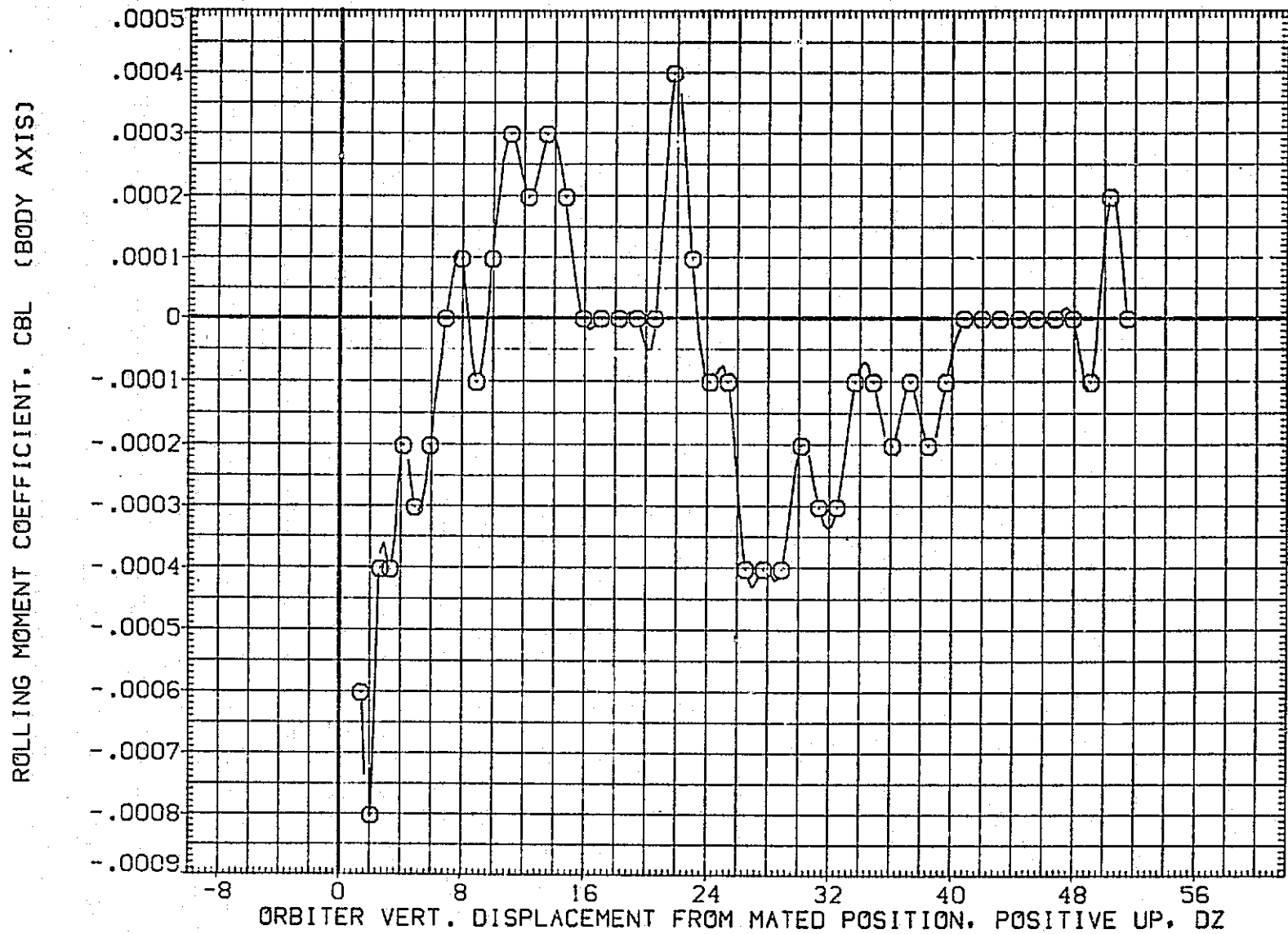


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE128)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SG.FT.
○	.606	2.000	.000	5.000	.000	5500.0000	IN.	50.00
		5.000	.000	5.000	.000	327.7800	IN.	3.30
		.000	.000	.000	.000	2348.0400	IN.	23.48
		.000	6.000			1339.9000	IN.	13.40
		.000	7.500			.0000	IN.	0.00
						190.7500	IN.	1.91
						.0125	IN.	0.13

LIFT COEFFICIENT, CL

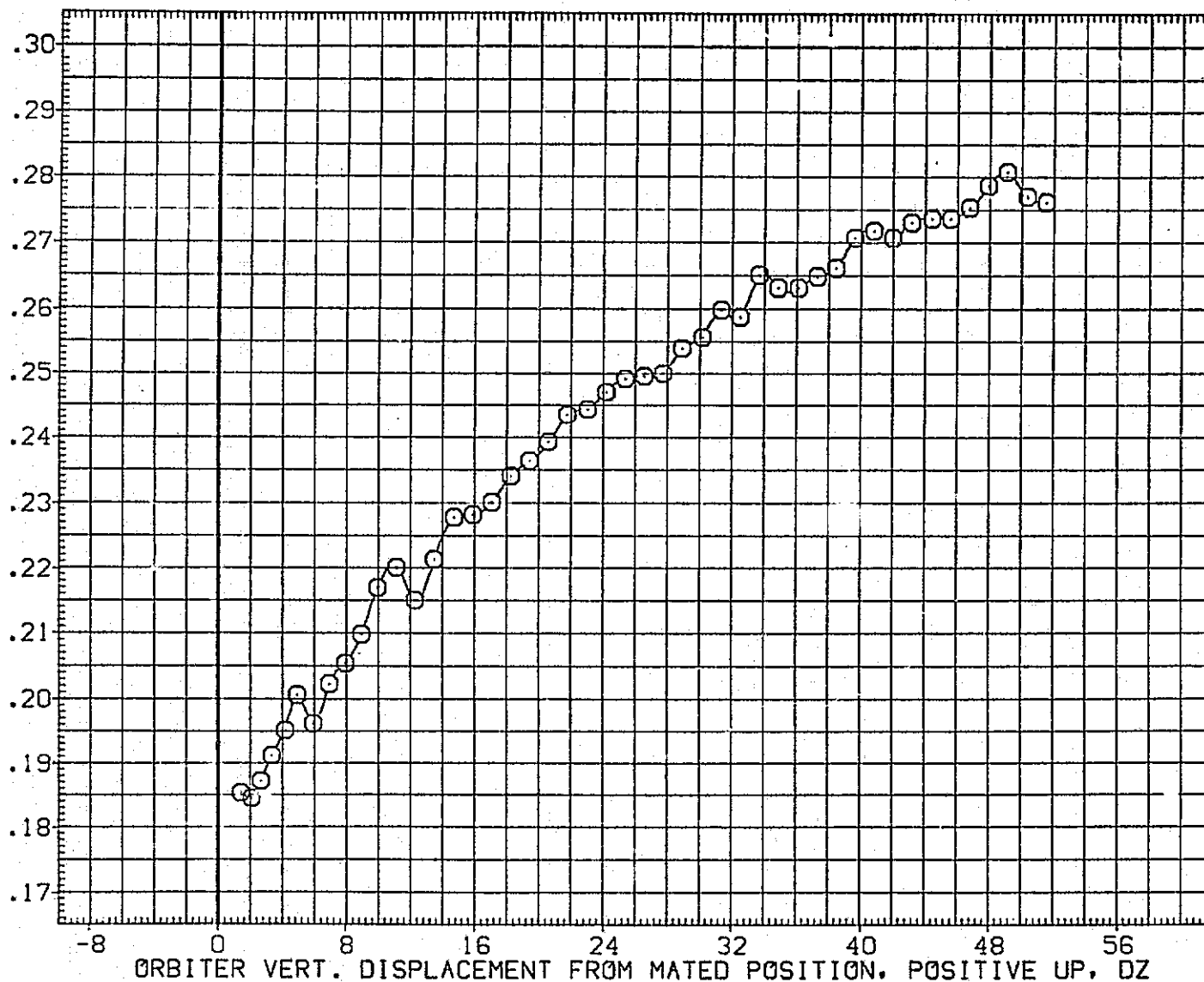


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	SC.FT.	
○	.606	2.000	.000	5.000	.000	5500.0000	IN.	
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

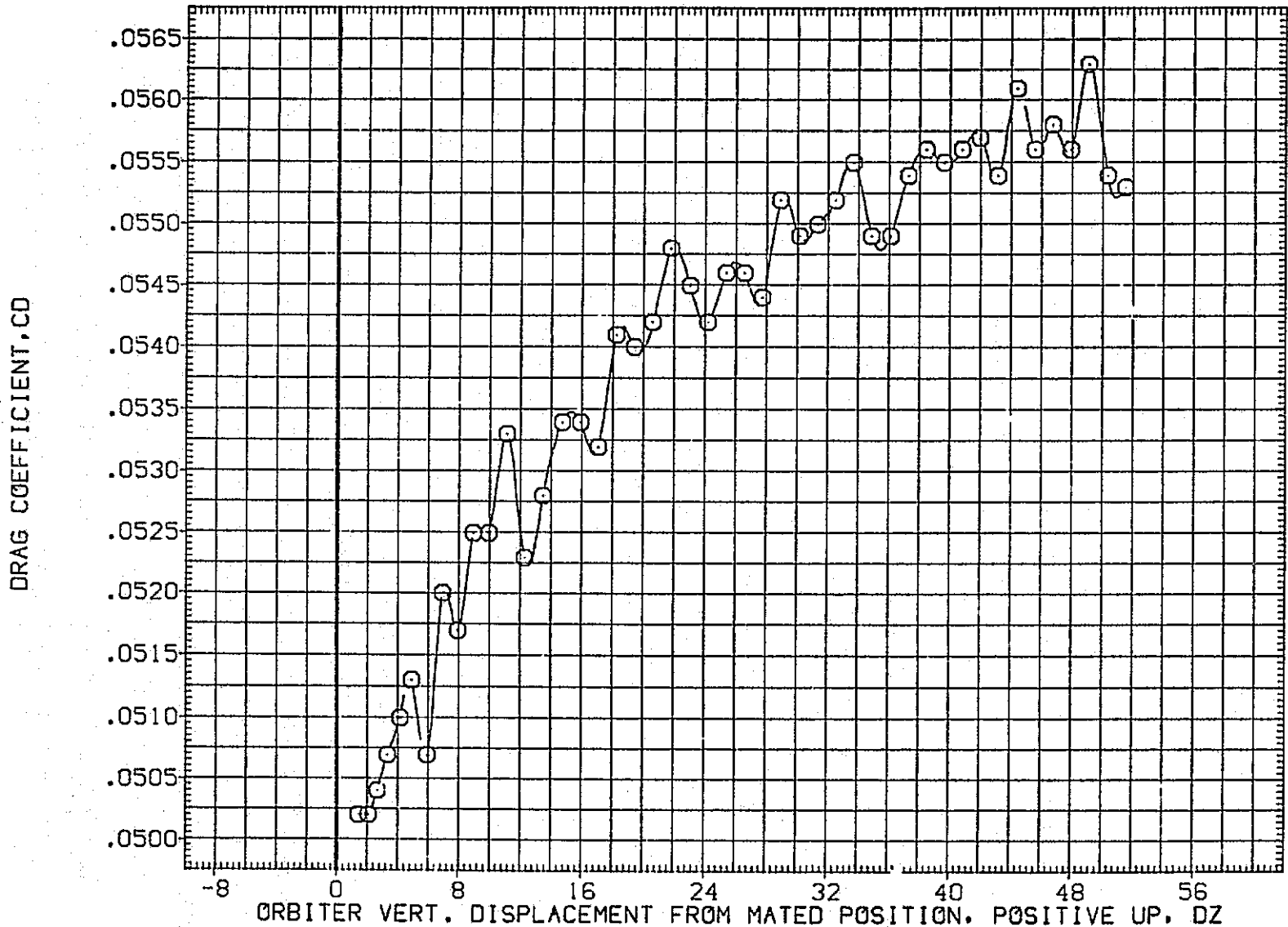


FIG.232 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=0, DELPHI=7.5, RFE128

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE129)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		OY	.000	IORB	6.000	XM RP	1339.9000	IN. XC
		BETAG	5.000	DPHI	7.500	YM RP	.0000	IN. YC
						ZM RP	190.7500	IN. ZC
						SCALE	.0125	

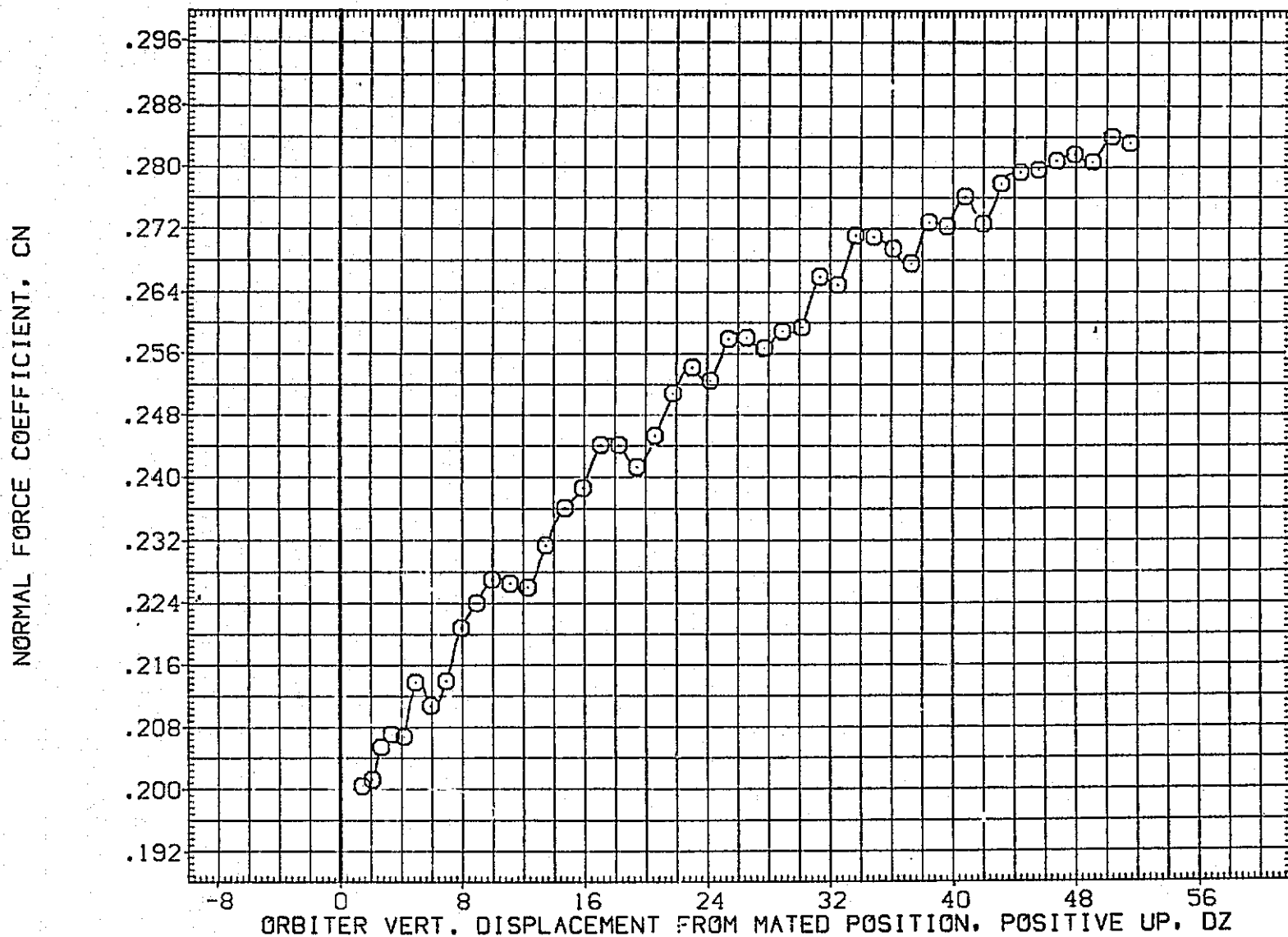


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

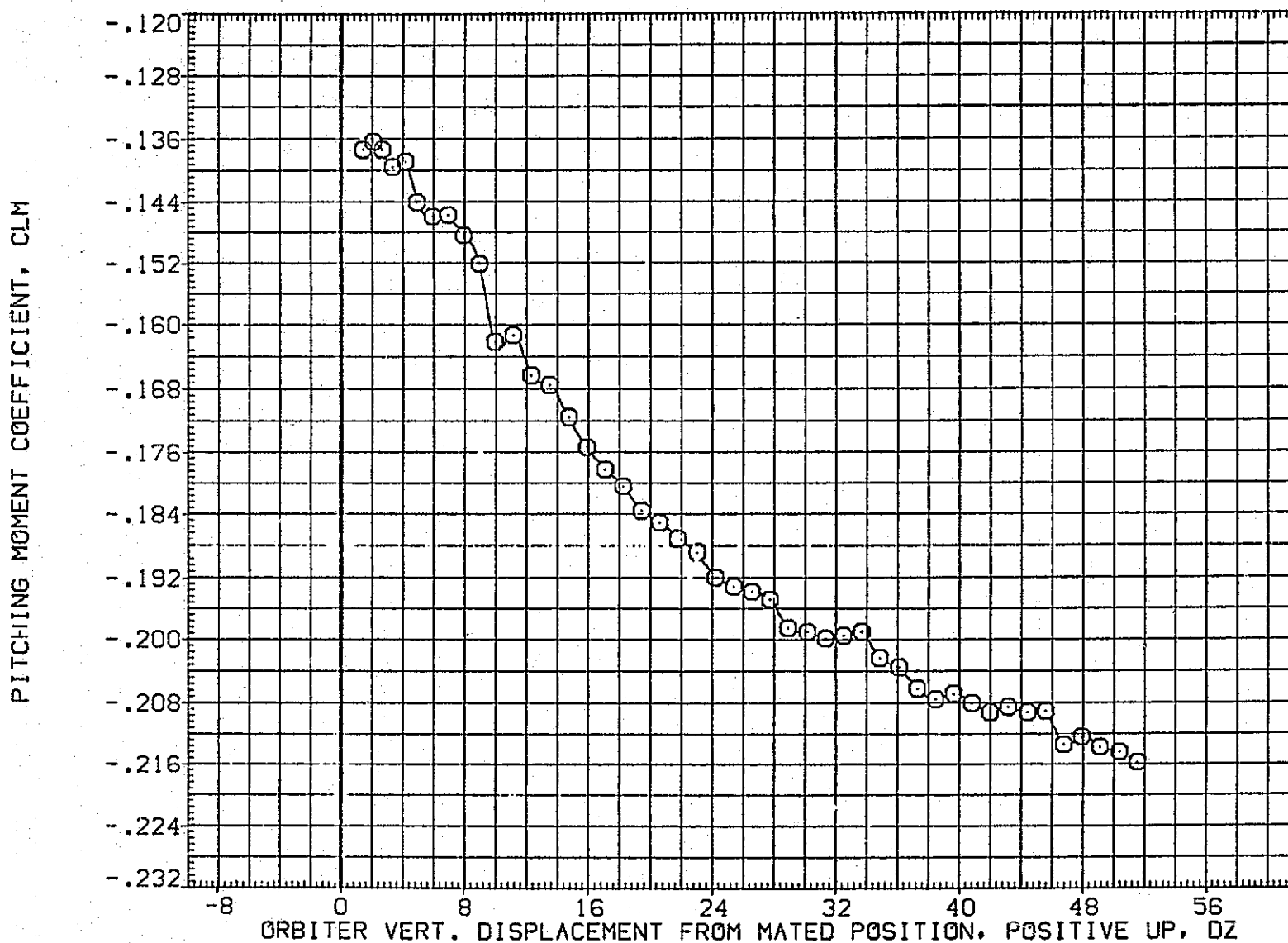


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE129)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

AXIAL FORCE COEFFICIENT, CA

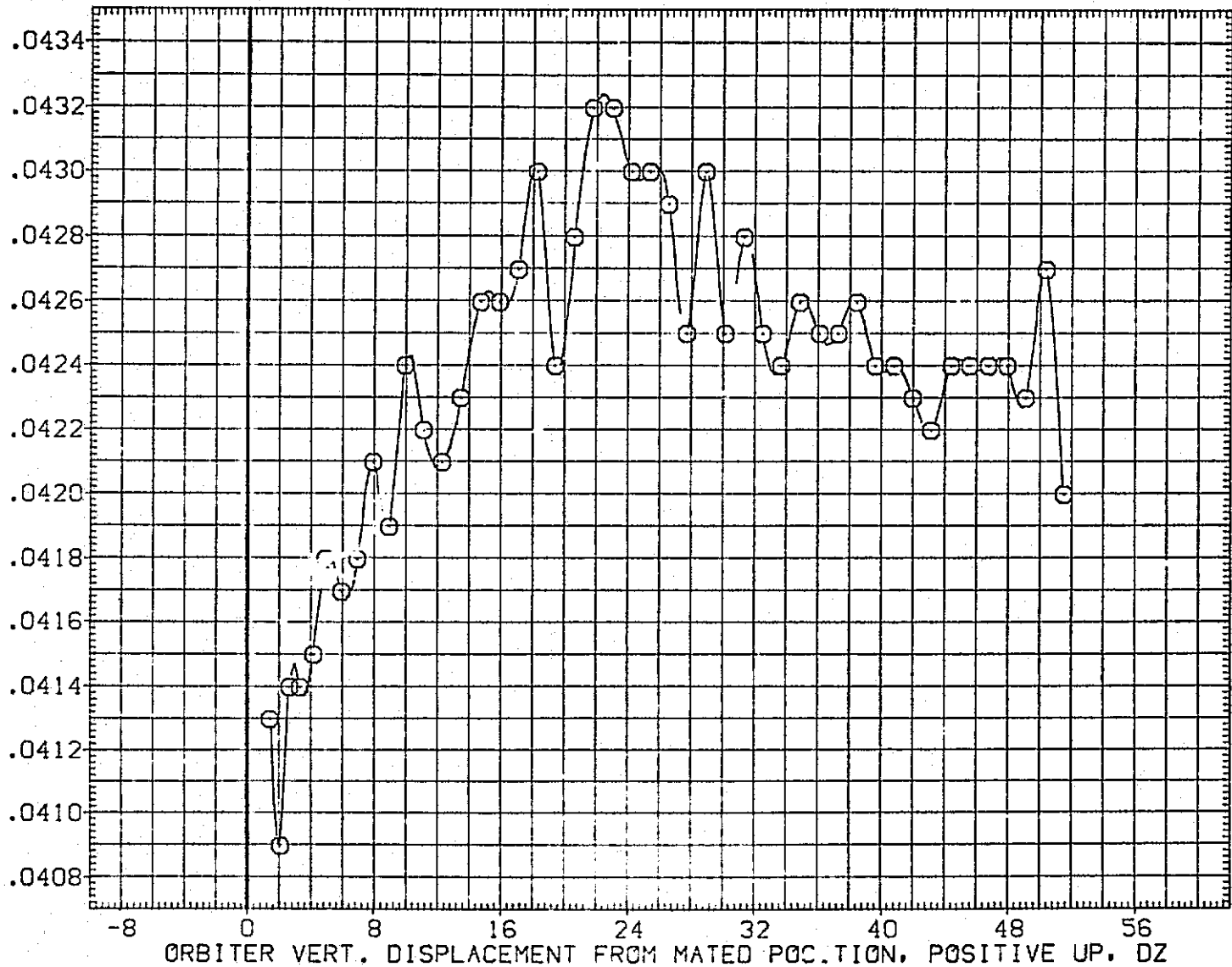


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE129)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SC.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

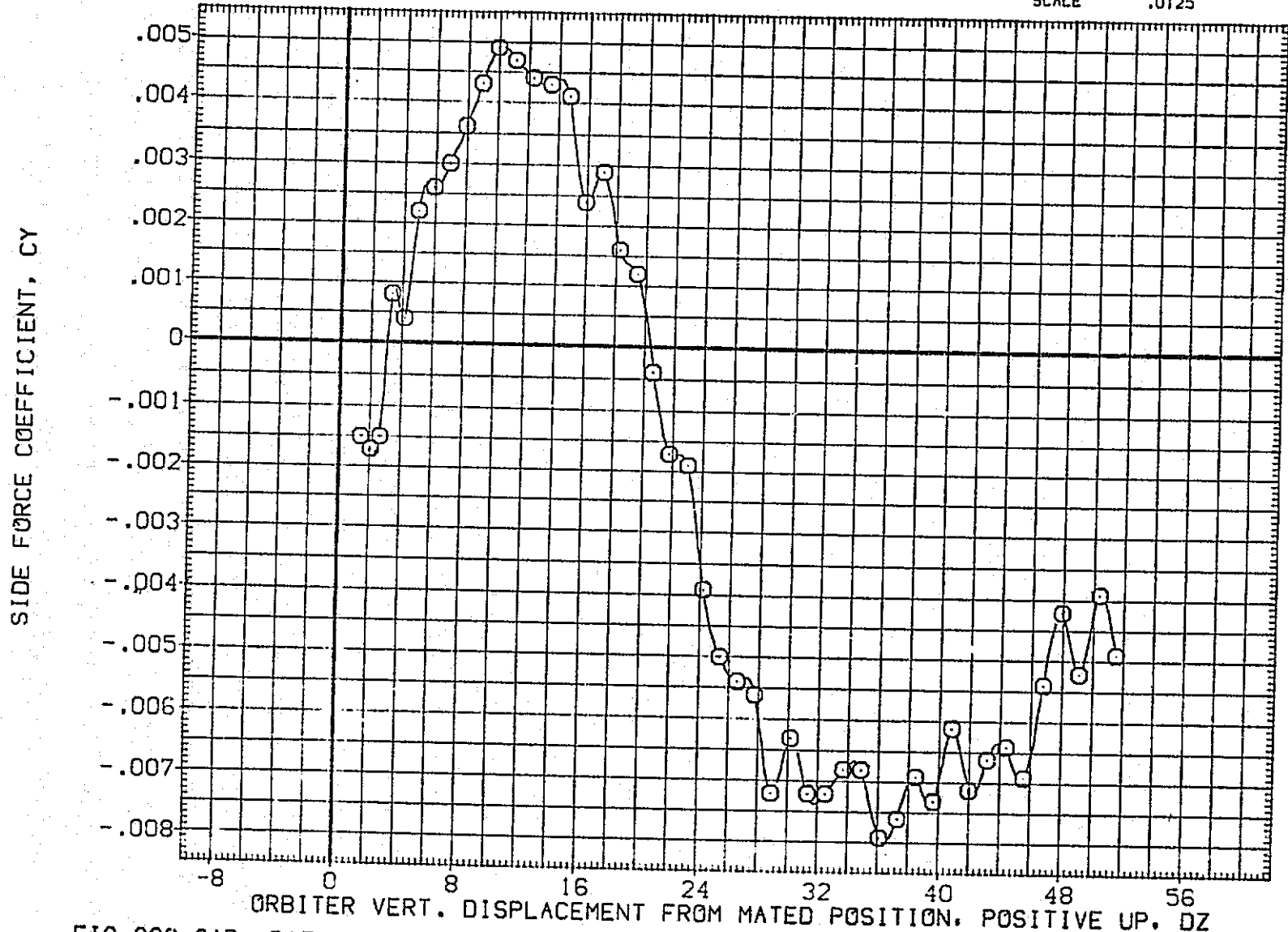


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE129)

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

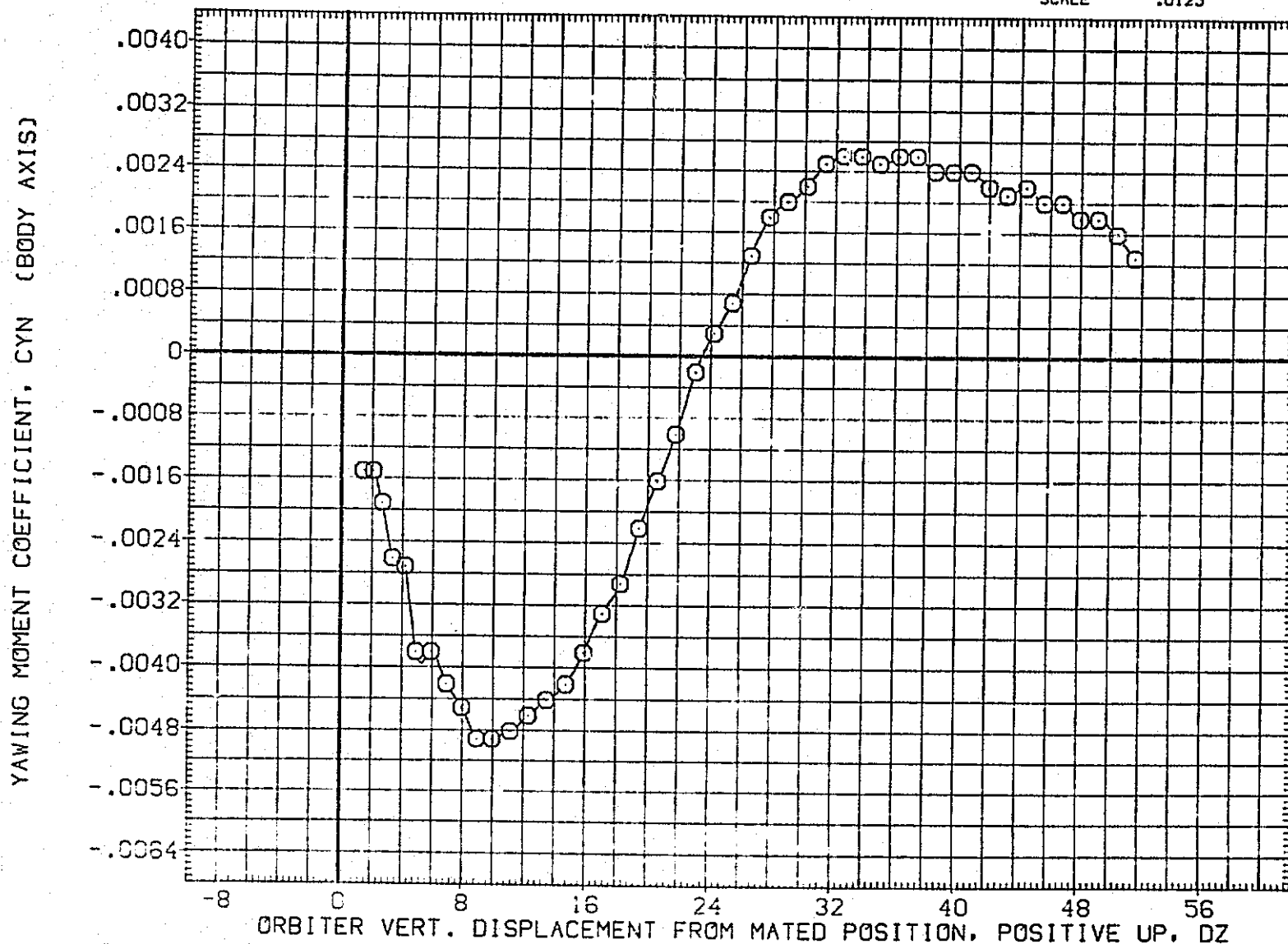


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	IORB	6.000
		BETA0	5.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
DREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

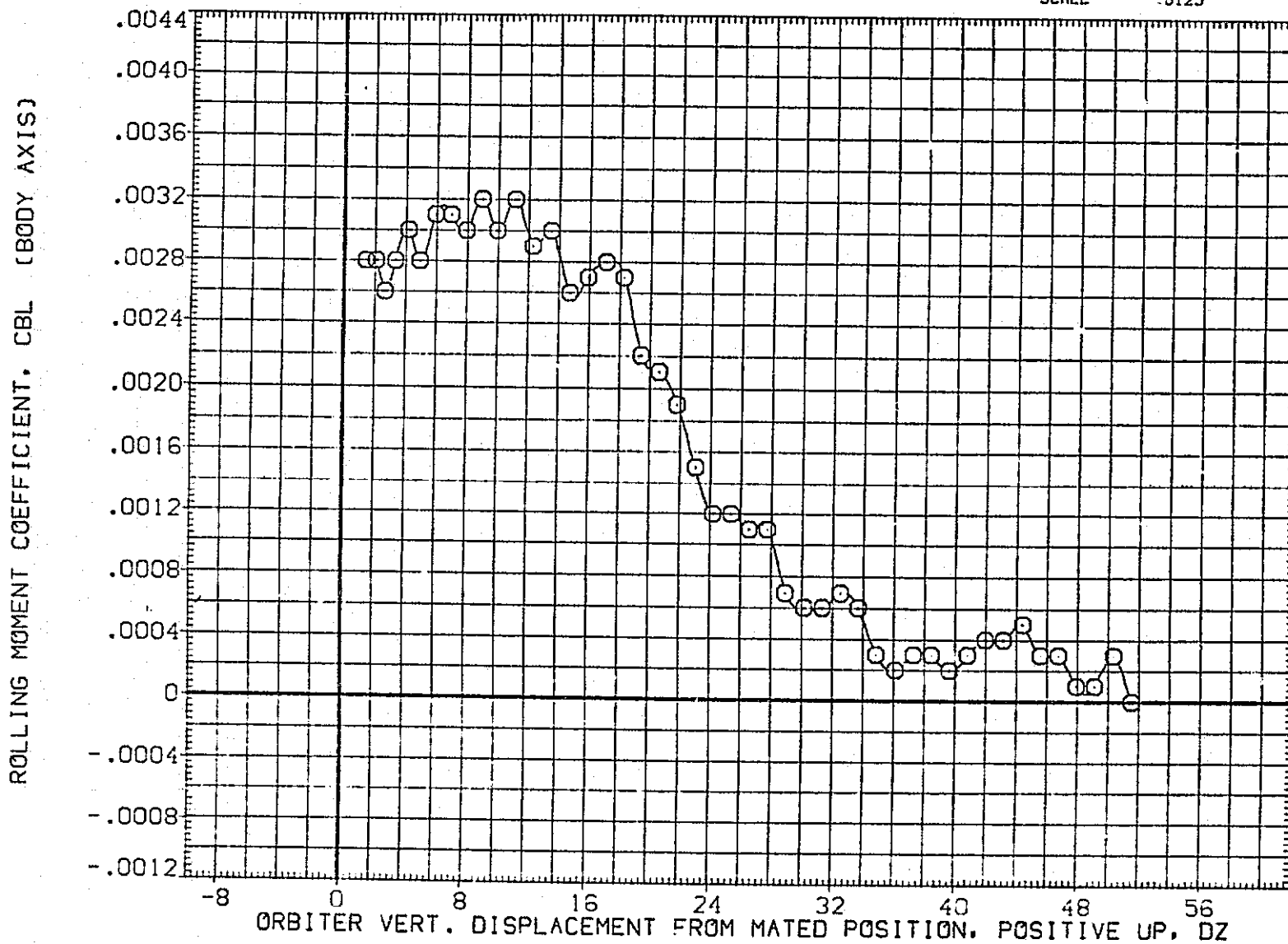


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE129)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.603	ALPHAC	2.000	BETAC	.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	5.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

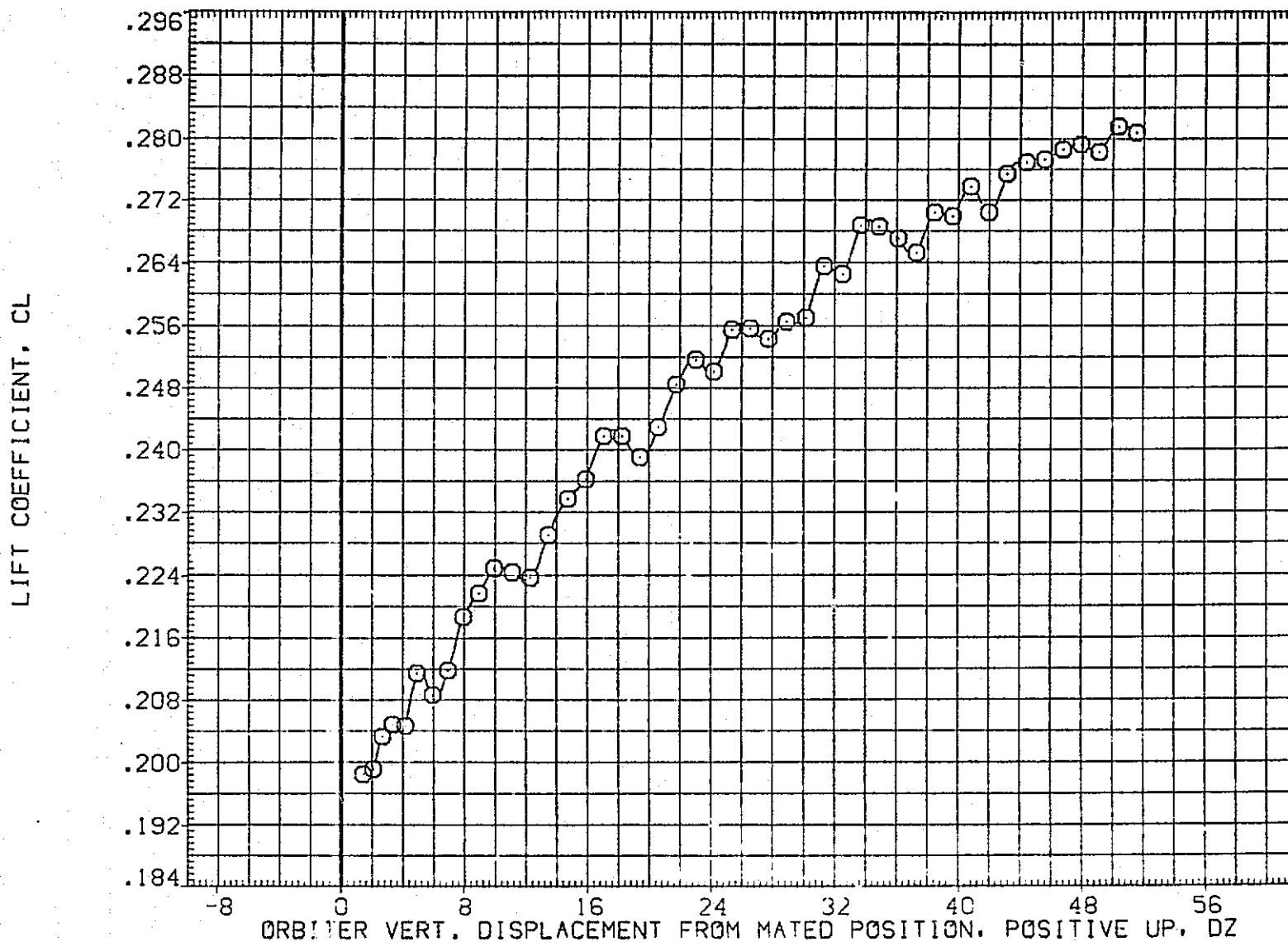


FIG.233 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

SYMBOL	MACH	PARAMETRIC VALUES			
○	.603	ALPHAC	2.000	BETAC	.000
		STAB	5.000	ELEVON	5.000
		RUDDER	.000	DX	.000
		DY	.000	ICRB	6.000
		BETA0	5.000	DPHI	7.500

REFERENCE INFORMATION		
SREF	5500.0000	SO.FI.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

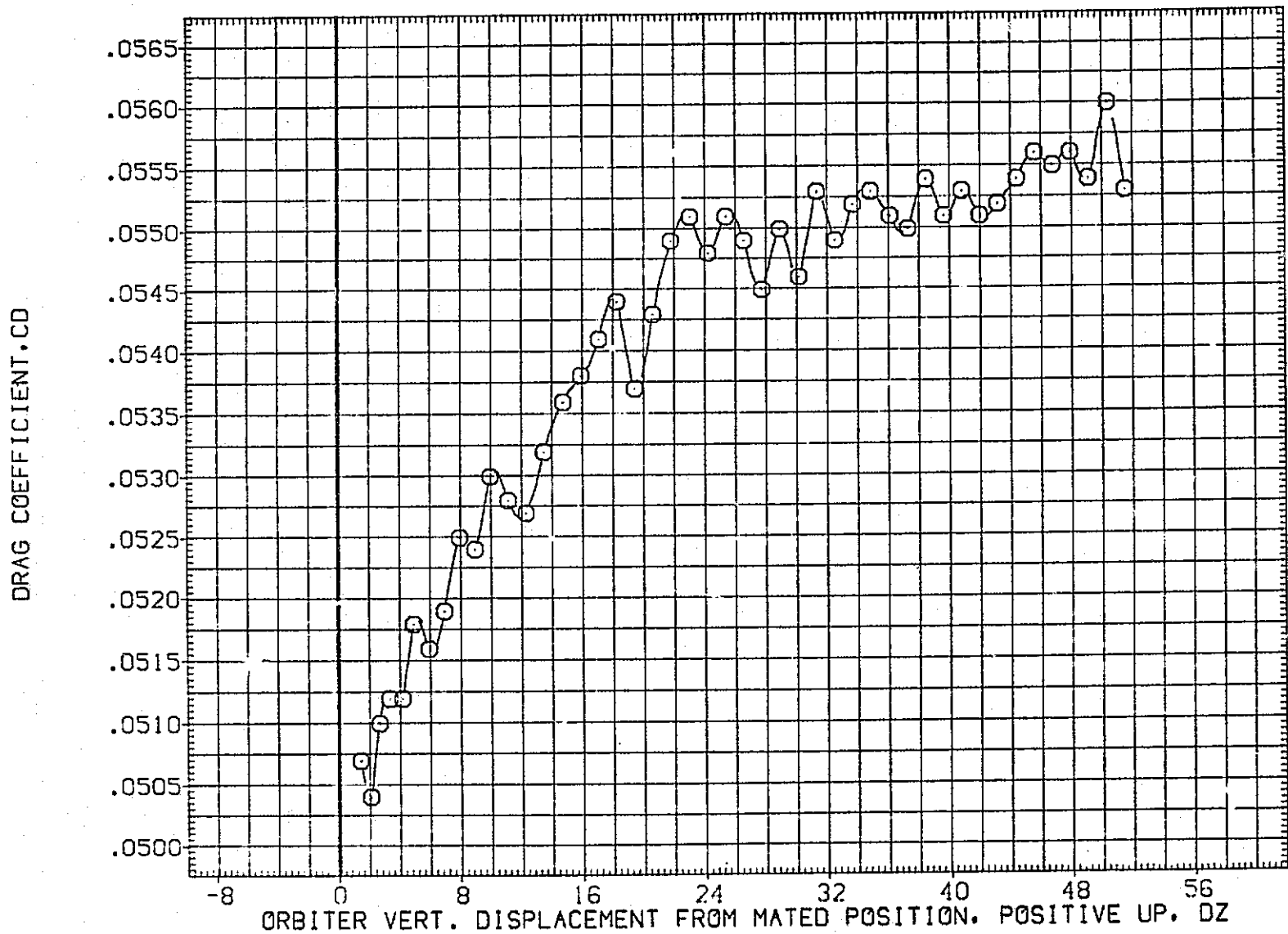


FIG.233 CAR. DATA, ORC PROXIM., ALPHAC=2, ICRB=6, BETAC=0, BETA0=5, DELPHI=7.5, RFE129

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE130)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC 2.000	BETAC -5.000		
	STAB 5.000	ELEVON 5.000		
	RUDDER .000	DX .000		
	DY .000	IORB 6.000		
	BETA0 .000	DPHI 7.500		

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

NORMAL FORCE COEFFICIENT, CN

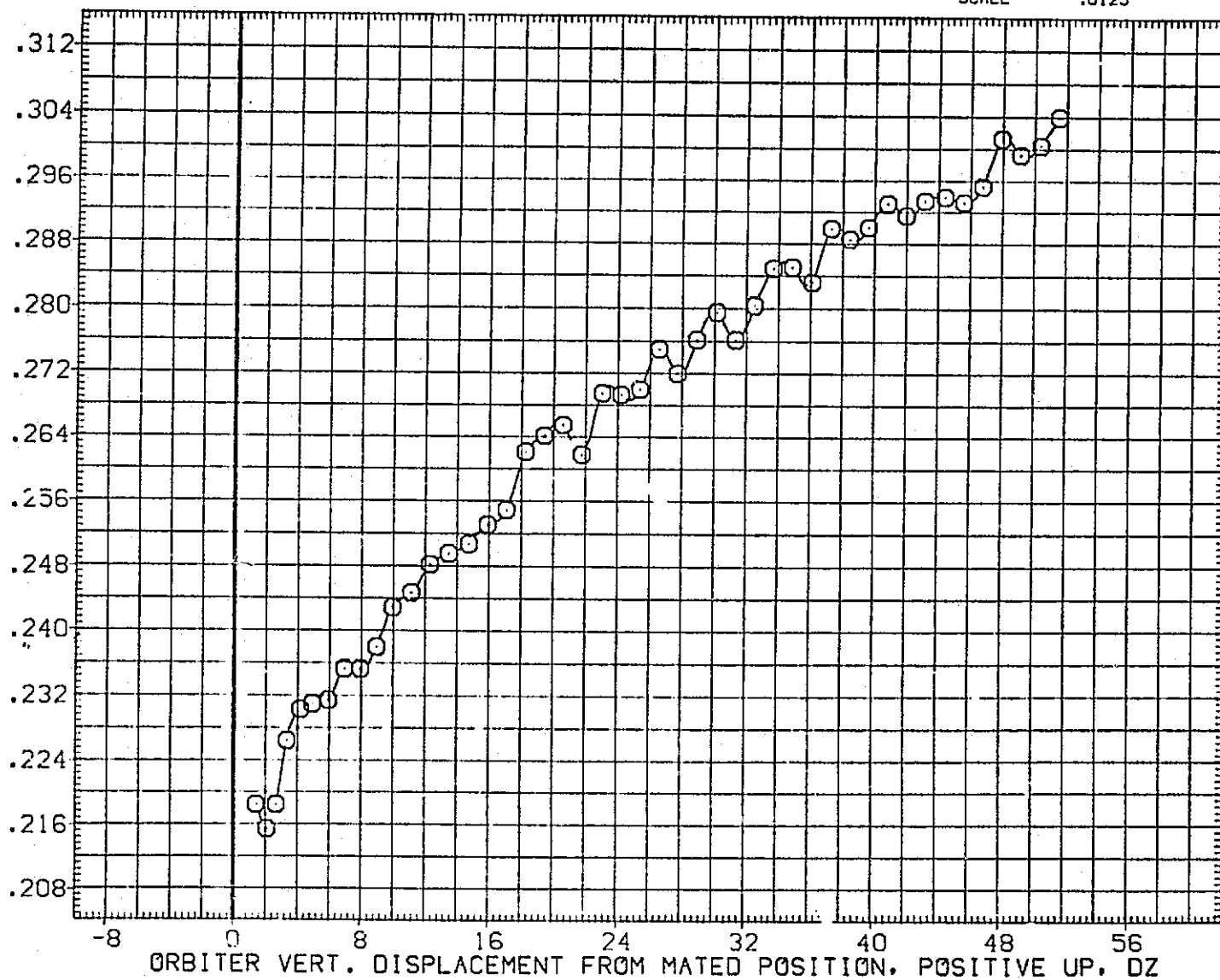


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XZ
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YZ
						ZMRP	190.0000	IN. ZC
						SCALE	.0125	

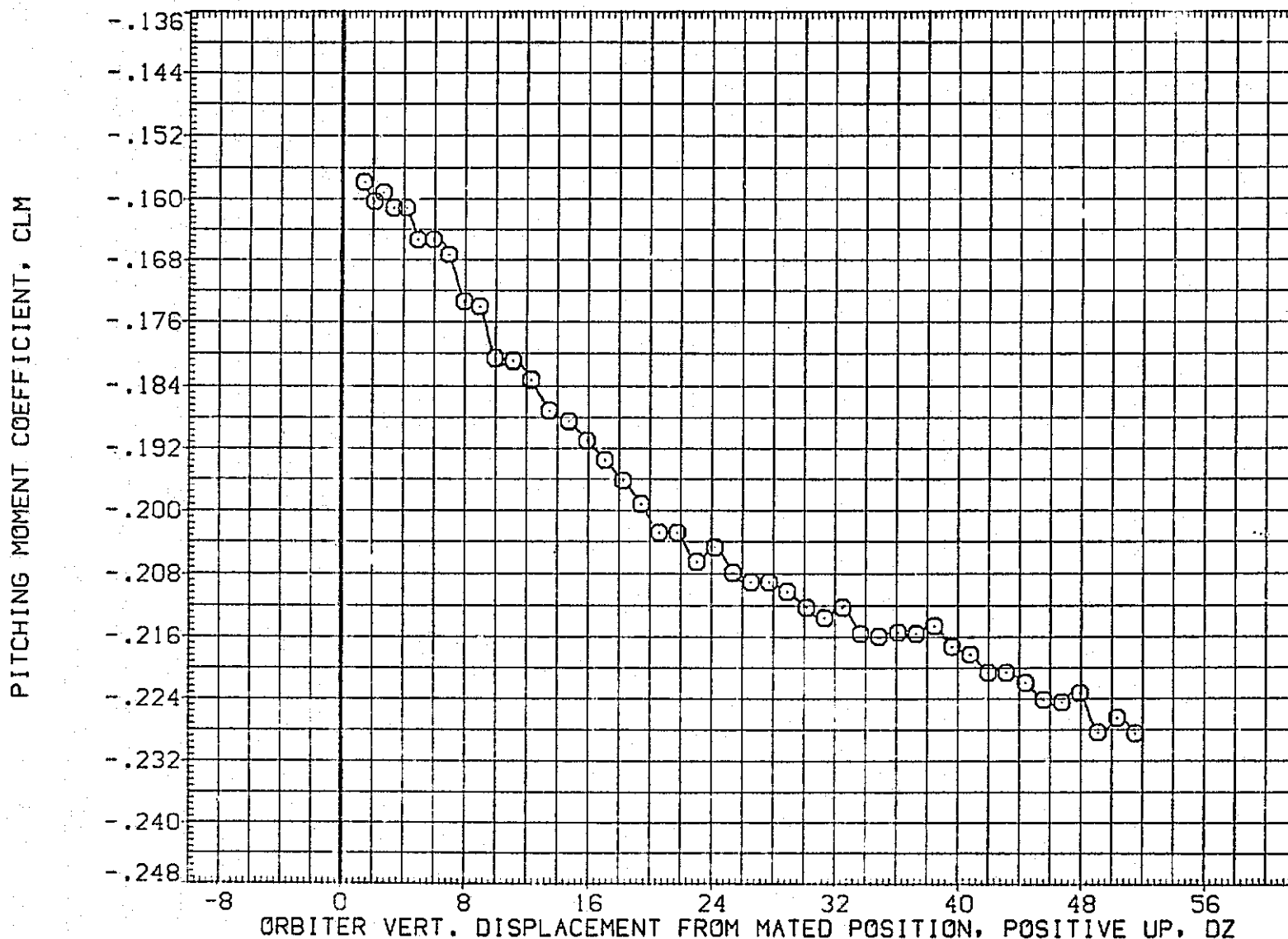


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE130)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	SQ.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

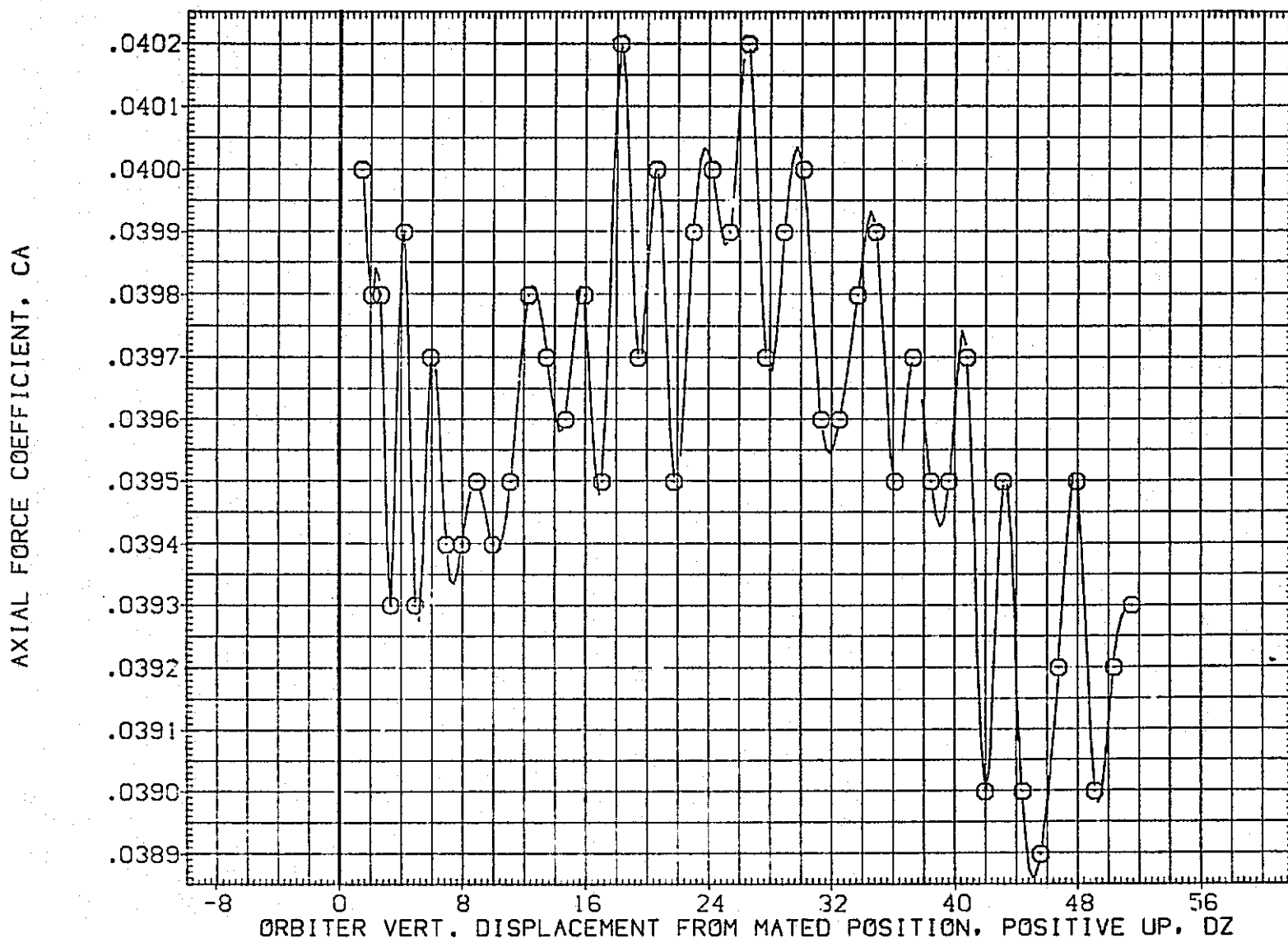


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

SYMBOL

MACH

.602

ALPHAC

PARAMETRIC VALUES

2.000

BETAC

-5.000

STAB

5.000

ELEVON

5.000

RUDDER

.000

DX

.000

DY

.000

IORB

6.000

BETA0

.000

DPHI

7.500

REFERENCE INFORMATION

SREF 5500.0000

SQ.FT.

LREF 327.7800

IN.

BREF 2348.0400

IN.

XMRP 1339.9000

IN. XC

YMRP .0000

IN. YC

ZMRP 190.7500

IN. ZC

SCALE .0125

SIDE FORCE COEFFICIENT, CY

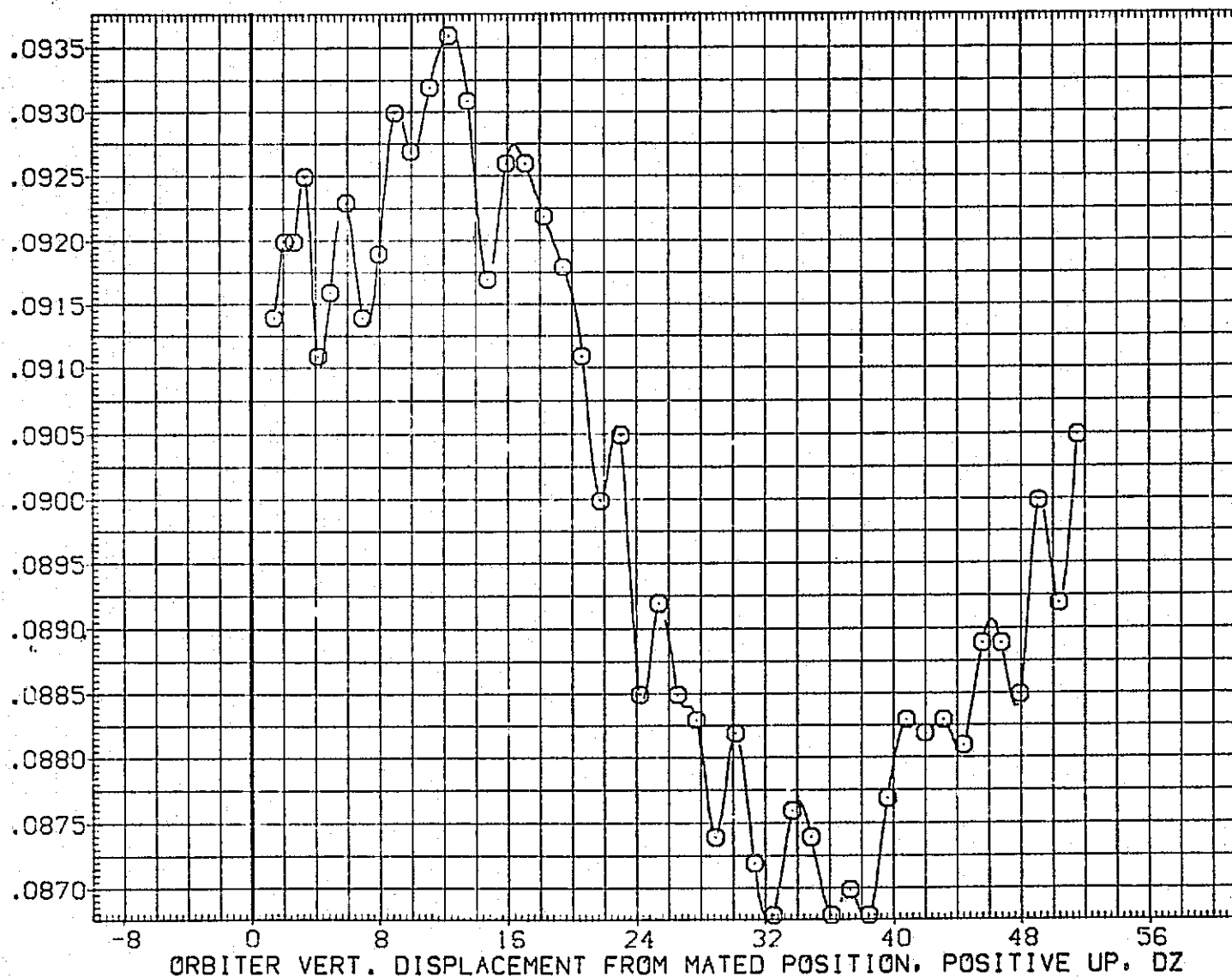


FIG. 234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE130)

SYMBOL	MACH	PARAMETRIC VALUES			REFERENCE INFORMATION			
○	.602	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

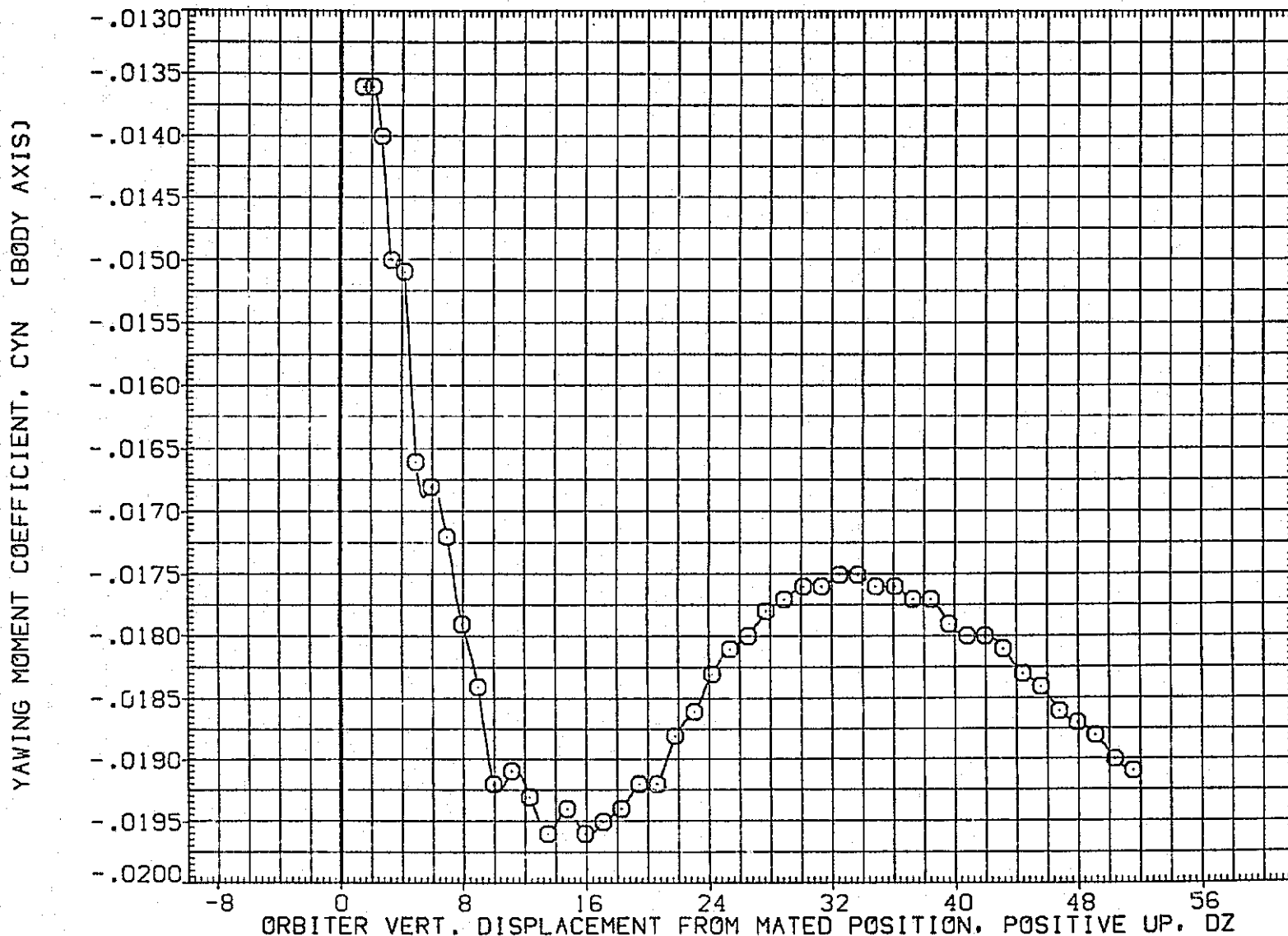


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	.602	ALPHAC	2.000	BETAC	-5.000	SREF	5500.0000	50.FT.
		STAB	5.000	ELEVON	5.000	LREF	327.7800	IN.
		RUDDER	.000	DX	.000	BREF	2348.0400	IN.
		DY	.000	IORB	6.000	XMRP	1339.9000	IN. XC
		BETA0	.000	DPHI	7.500	YMRP	.0000	IN. YC
						ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

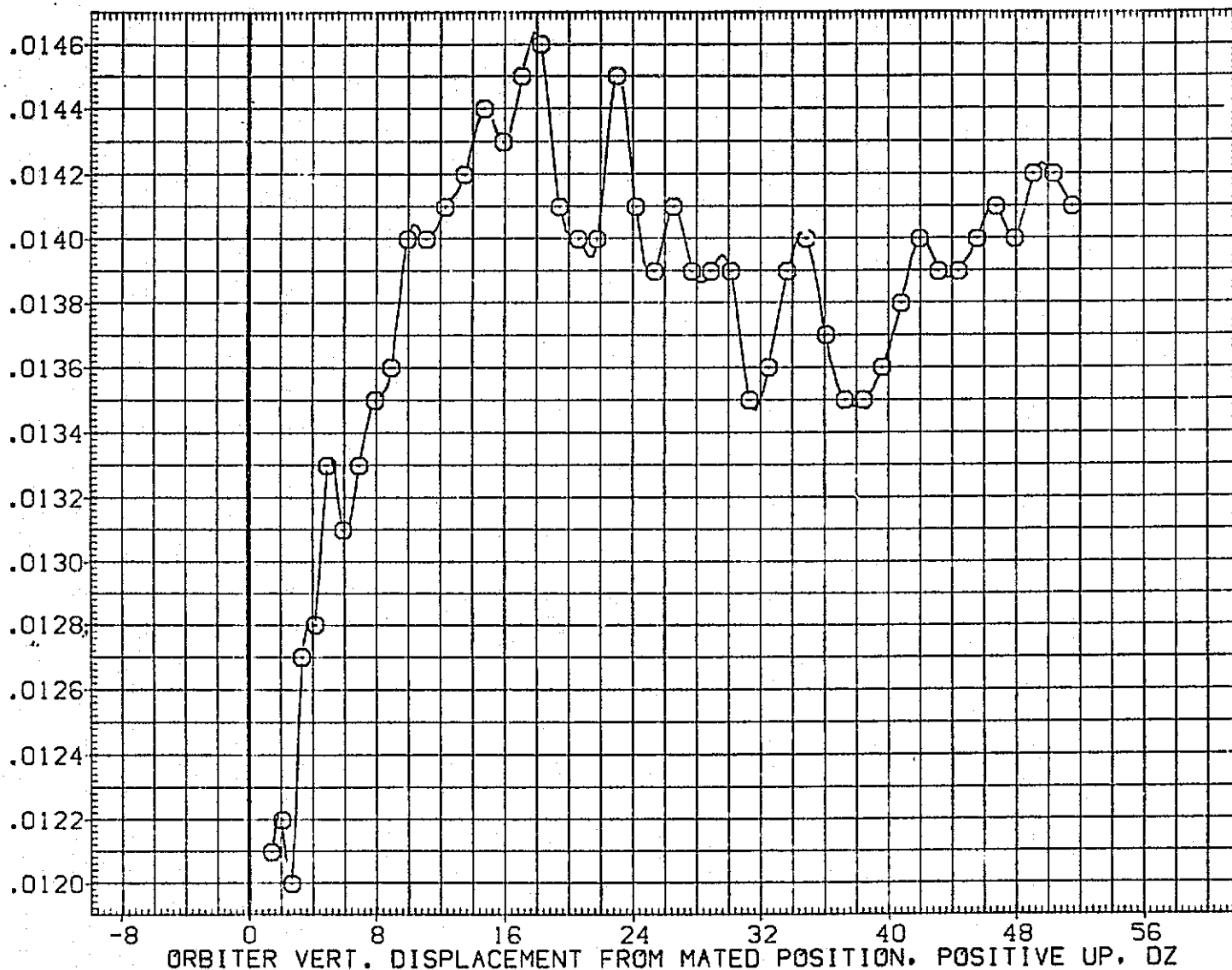


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA) (RFE130)

SYMBOL
○

MACH	PARAMETRIC VALUES			
.602	ALPHAC	2.000	BETAC	-5.000
	STAB	5.000	ELEVON	5.000
	RUDDER	.000	DX	.000
	OY	.000	IORB	6.000
	BETA0	.000	DPHI	7.500

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

LIFT COEFFICIENT, CL

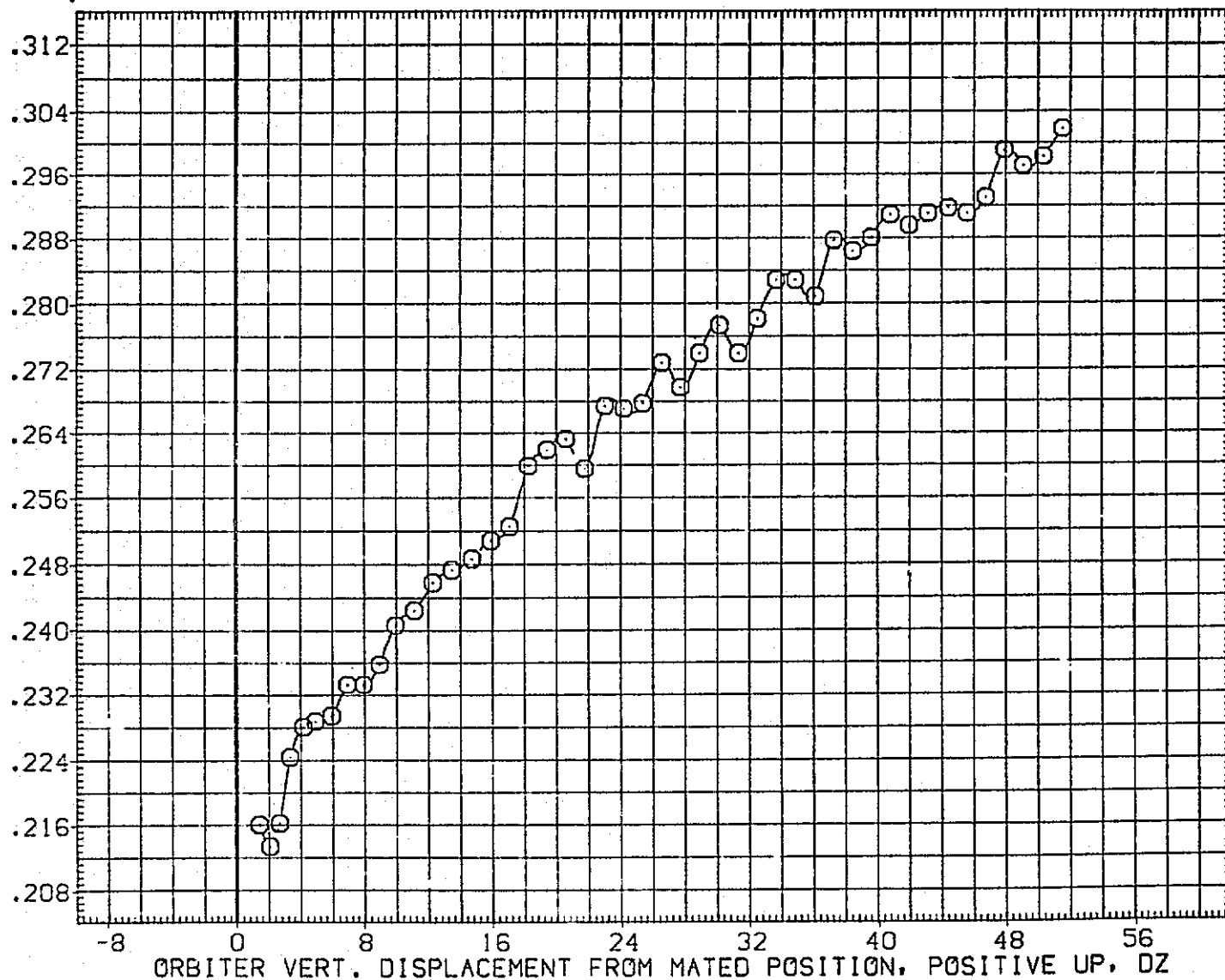


FIG.234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		ALPHAC	BETAC	ELEVON	DX	SREF	IN.	SQ.FT.
○	.602	2.000	-5.000	5.000	.000	5500.0000	327.7800	IN.
		5.000	6.000	.000	.000	2348.0400	1339.9000	IN.
		.000	7.500	.000	.000	190.7500	.0125	IN. XC
		.000						IN. YC
		.000						IN. ZC

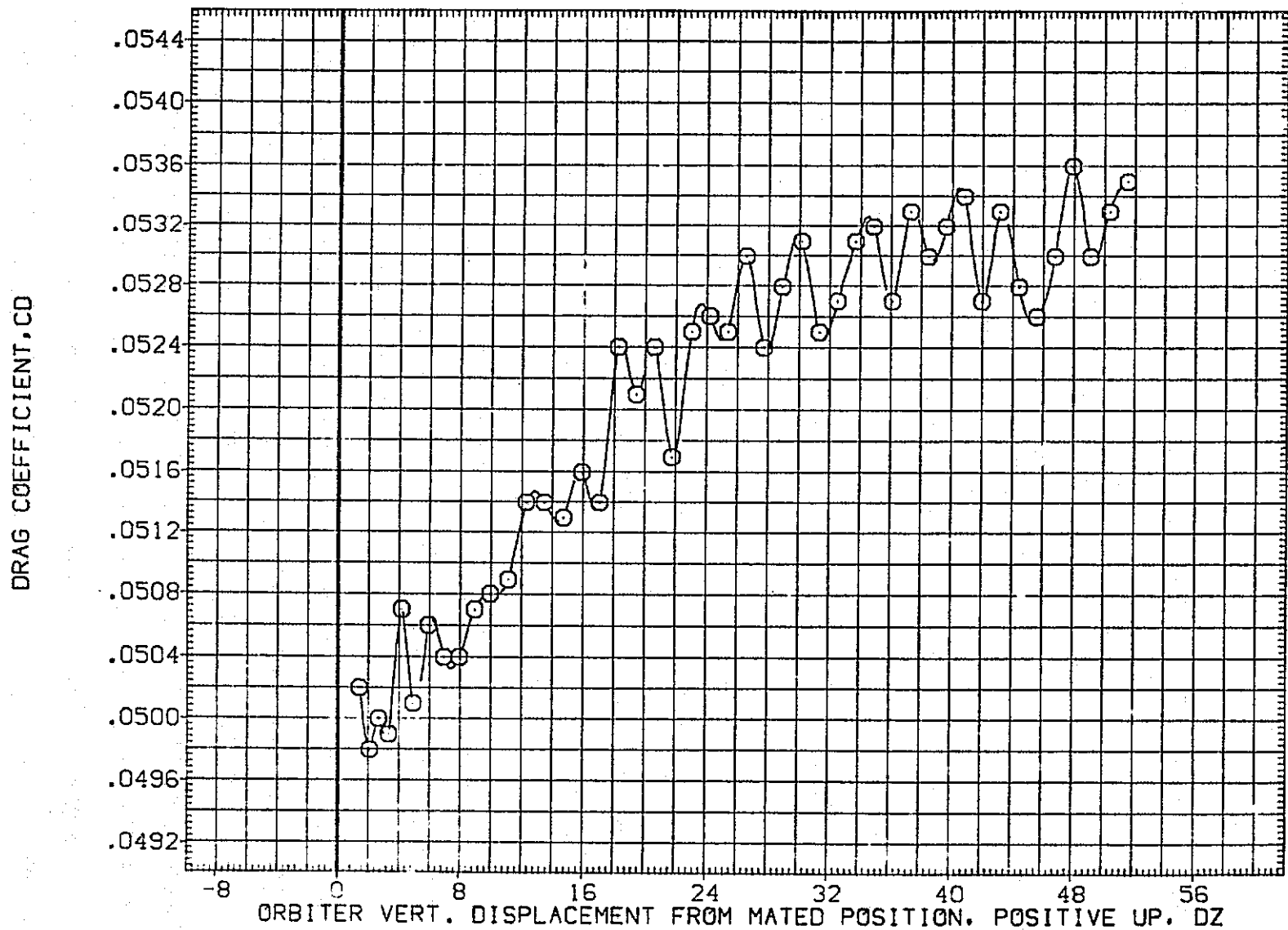


FIG. 234 CAR. DATA, ORB PROXIM., ALPHAC=2, IORB=6, BETAC=-5, BETA0=0, DELPHI=7.5, RFE130

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFF105)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFF106)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFF107)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFED30)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFED32)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFED34)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

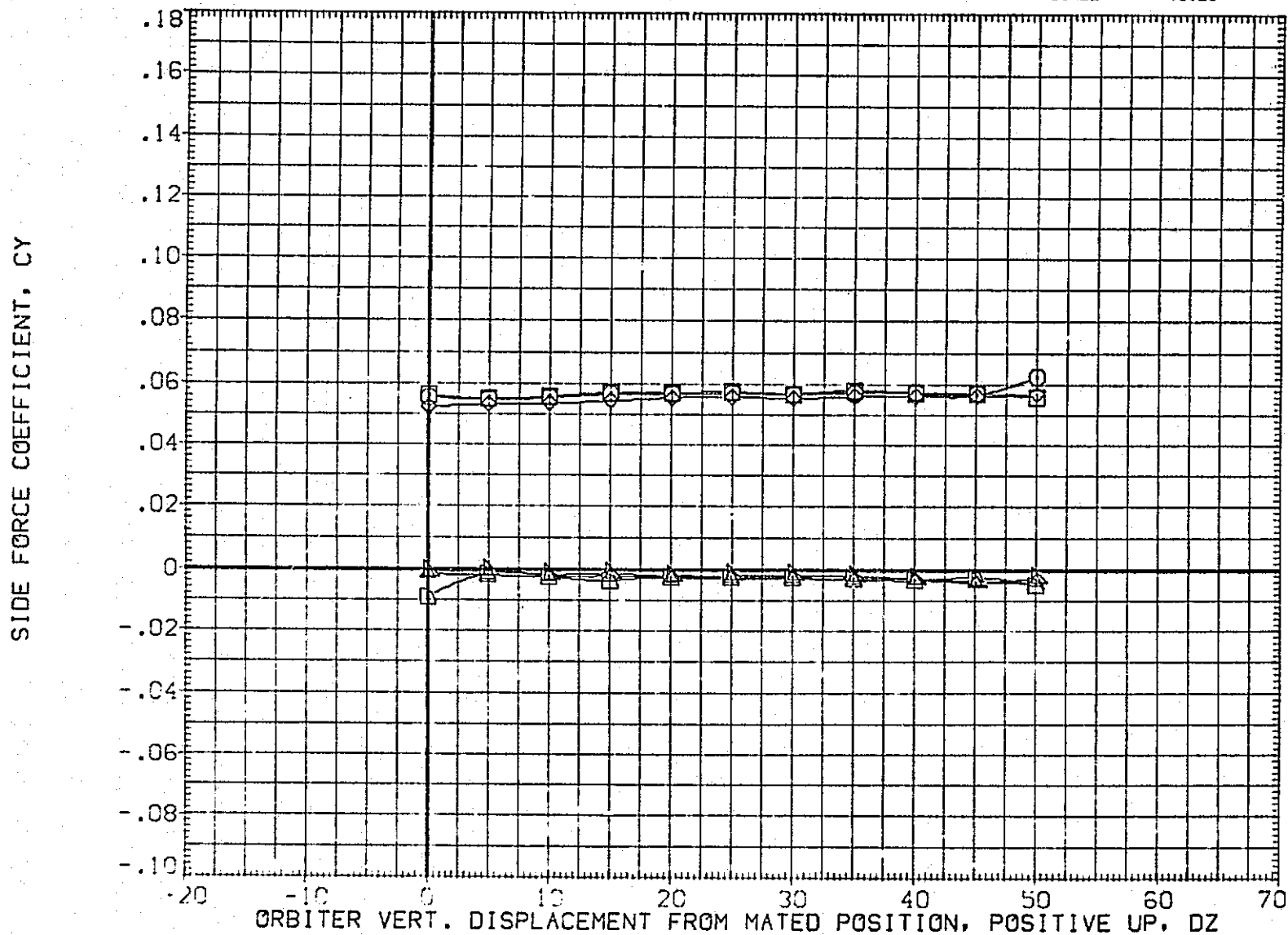


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAD	BETAC	ELEVON	REFERENCE INFORMATION
(KFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. XO
(KFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. YO
(KFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. ZO
					SCALE .0125

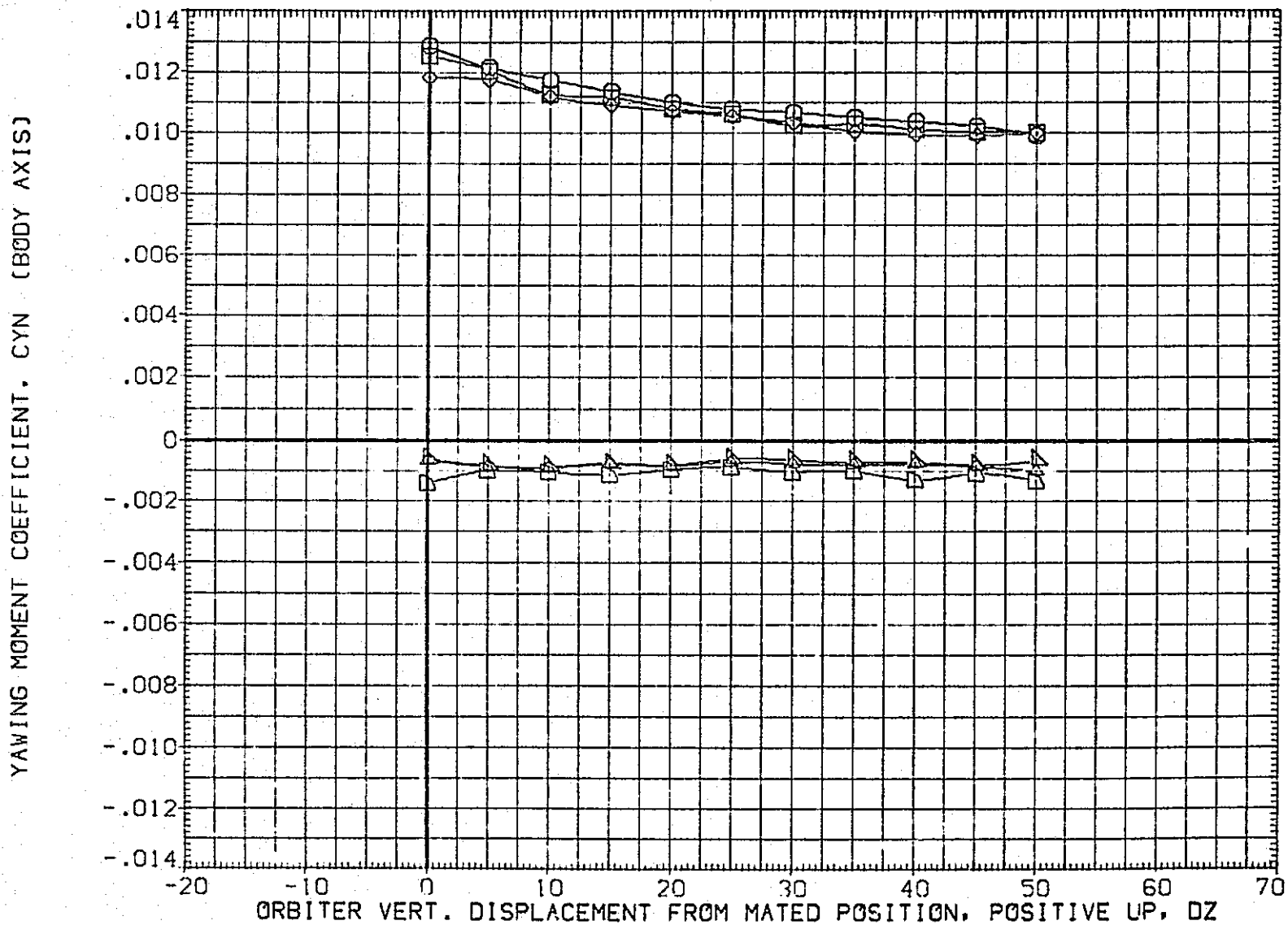


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE032)	LTV44-559(CA26) 747/1 ATY G2 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

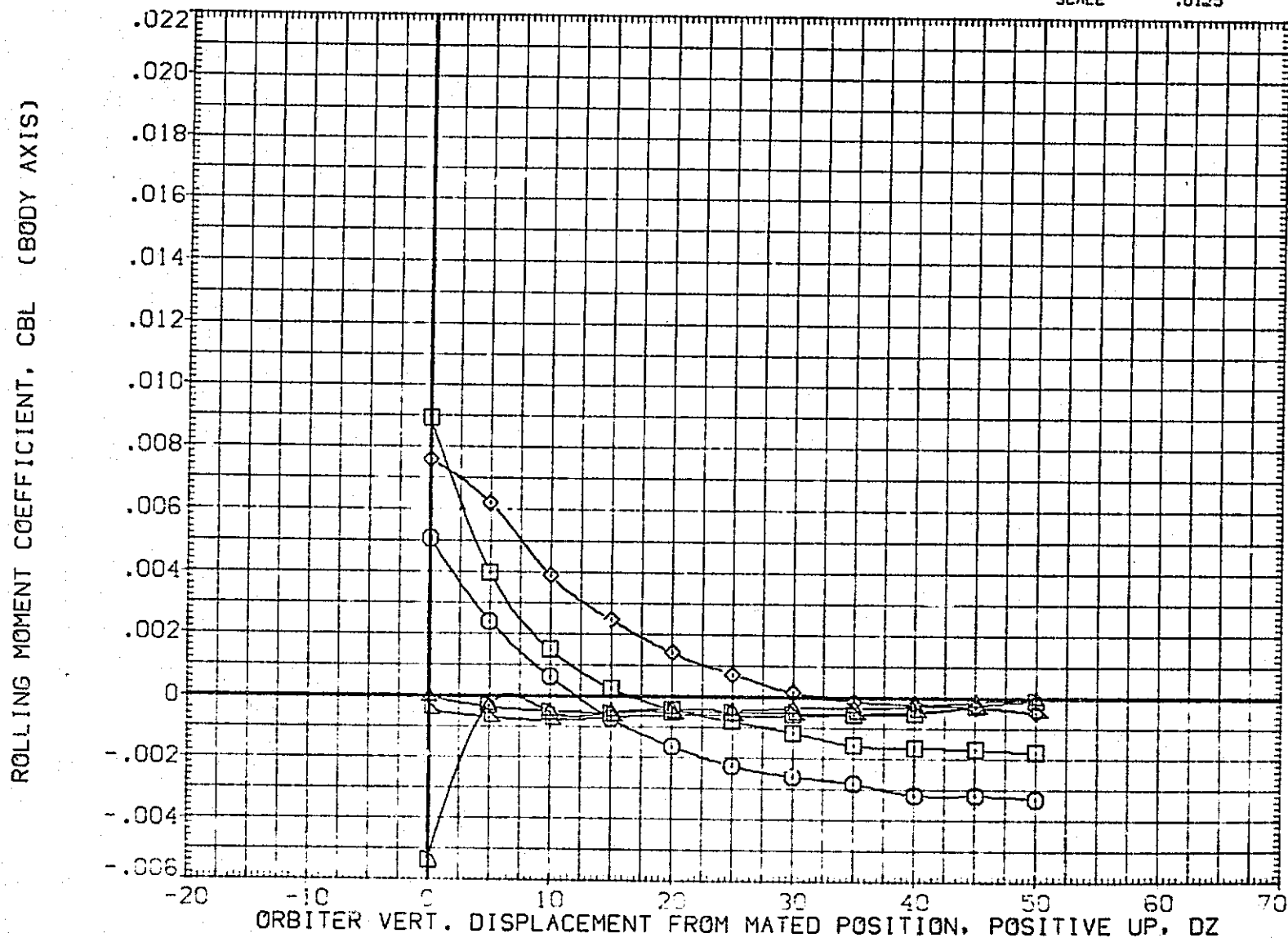


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ. FT.
(KFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 936.6800 IN.
(KFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT LEFT HAND SIDE PRESSURE COEFFICIENT, CPSI

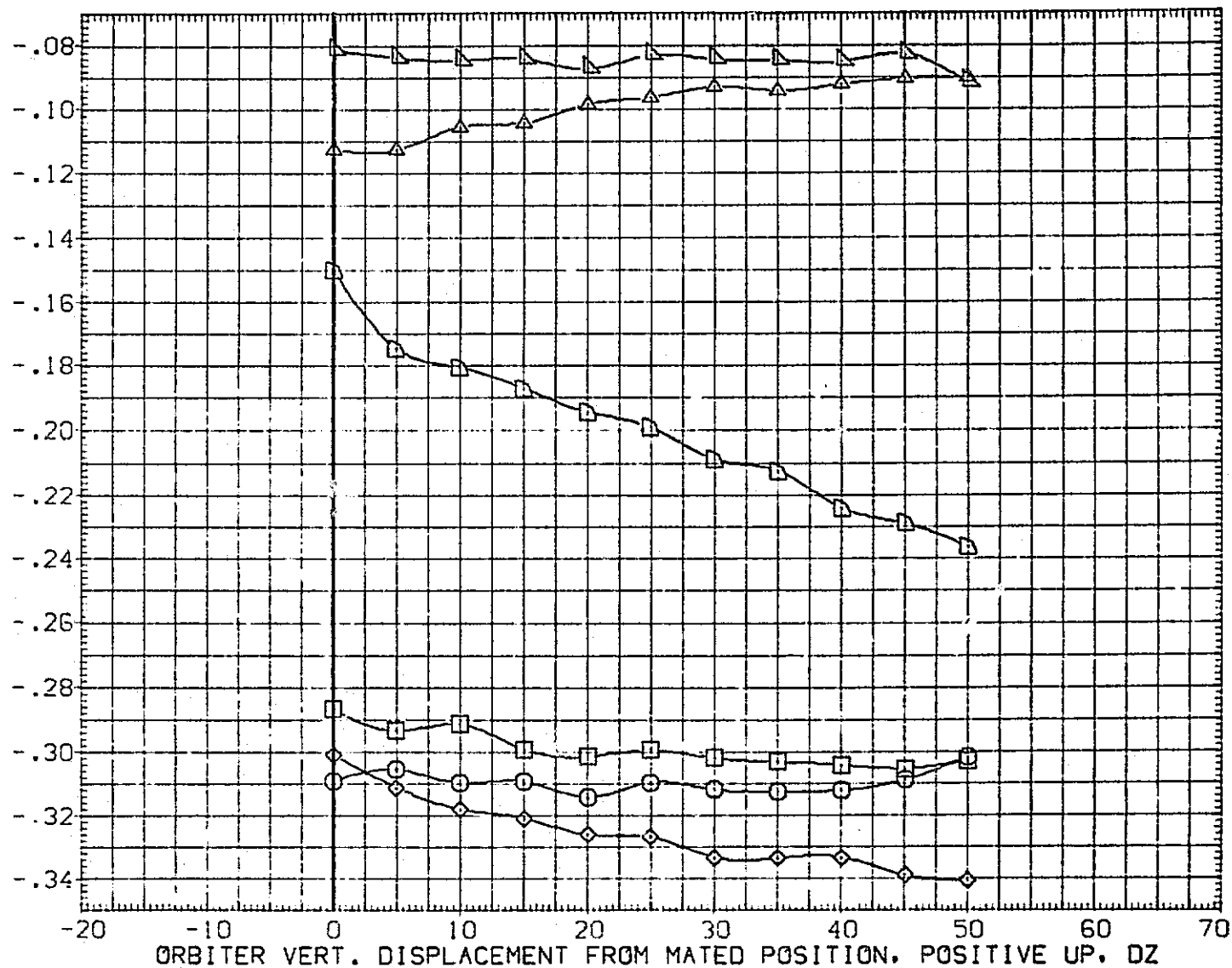


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT RIGHT HAND SIDE PRESSURE COEFFICIENT, CPS2

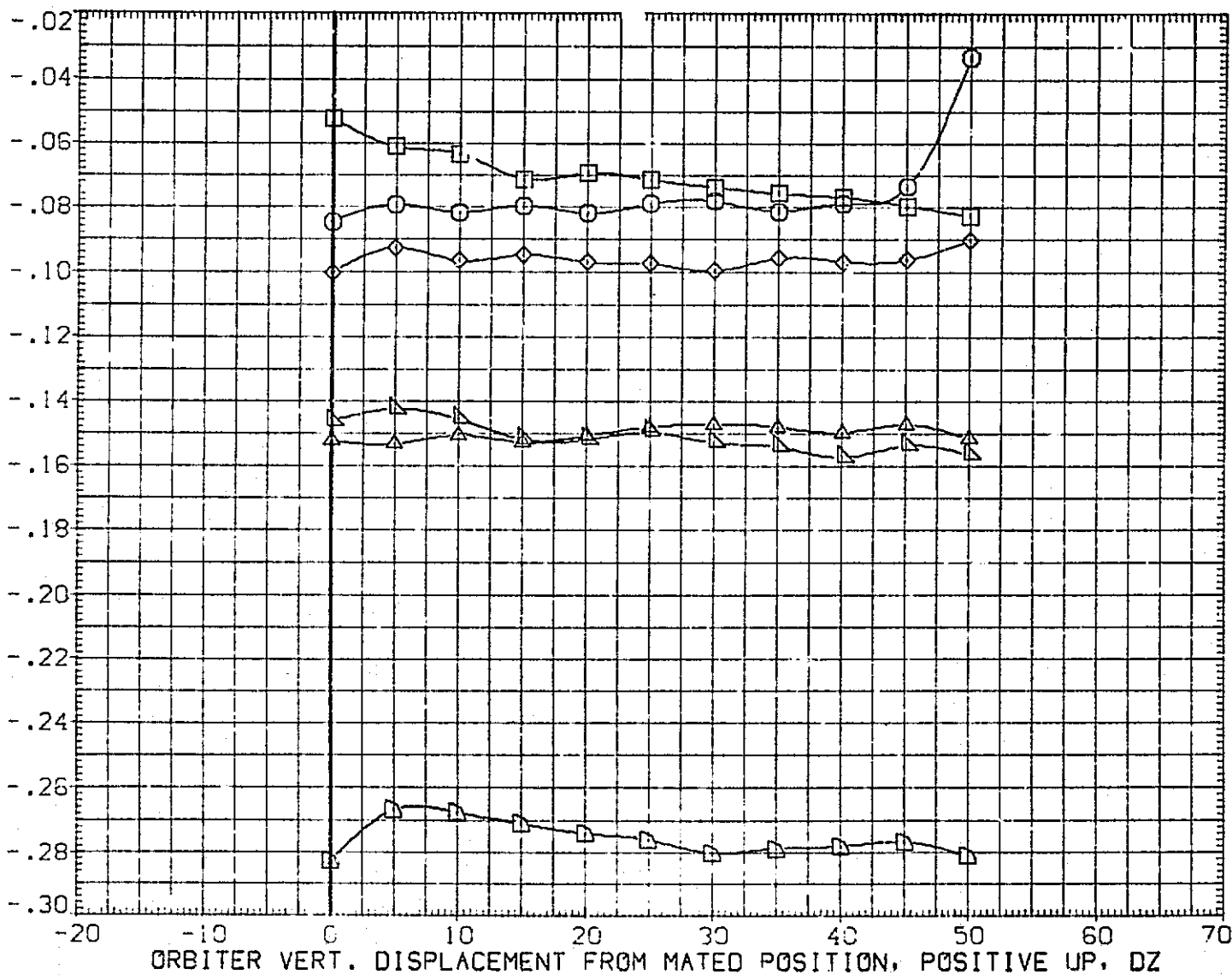


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(LFE105)	□	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	-5.000	5.000	5.000	SREF	5500.0000	SQ.FT.
(LFE106)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	-5.000	5.000	5.000	LREF	327.7800	IN.
(LFE107)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	-5.000	5.000	5.000	BREF	2348.0400	IN.
(LFE030)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	5.000	5.000	XM RP	1339.9000	IN. XC
(LFE032)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	5.000	5.000	YM RP	.0000	IN. YC
(LFE034)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	5.000	5.000	ZM RP	190.7500	IN. ZC
						SCALE	.0125	

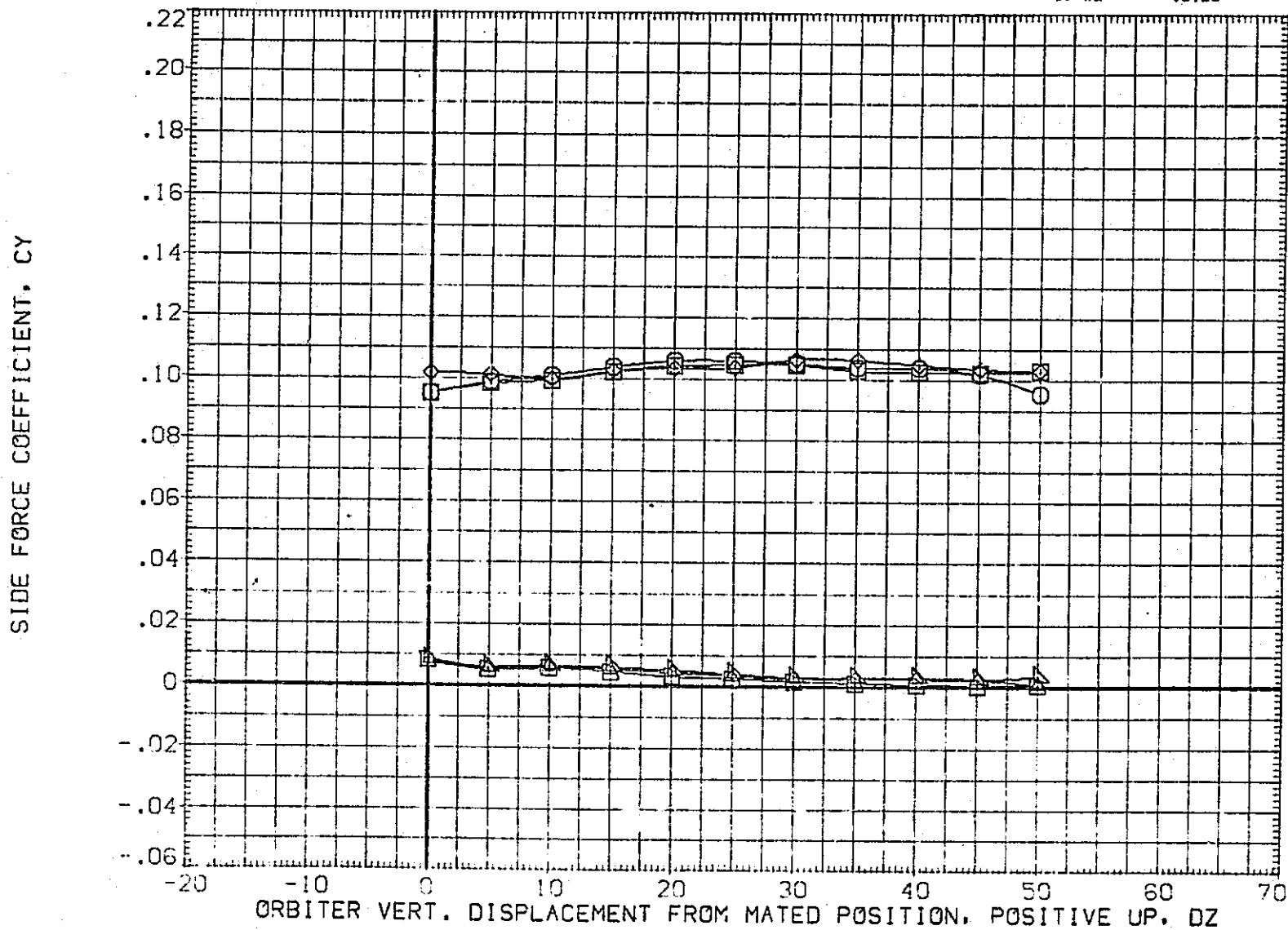


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(LFE105)	□	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)
(LFE106)	○	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)
(LFE107)	△	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)
(LFE030)	◇	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)
(LFE032)	○	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)
(LFE034)	□	LTV44-559(CA26)	747/1	ATY	02	SI	(CARRIER DATA)

BETA0	BETAC	ELEVON
-5.000	5.000	5.000
-5.000	5.000	5.000
-5.000	5.000	5.000
.000	5.000	5.000
.000	5.000	5.000
.000	5.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

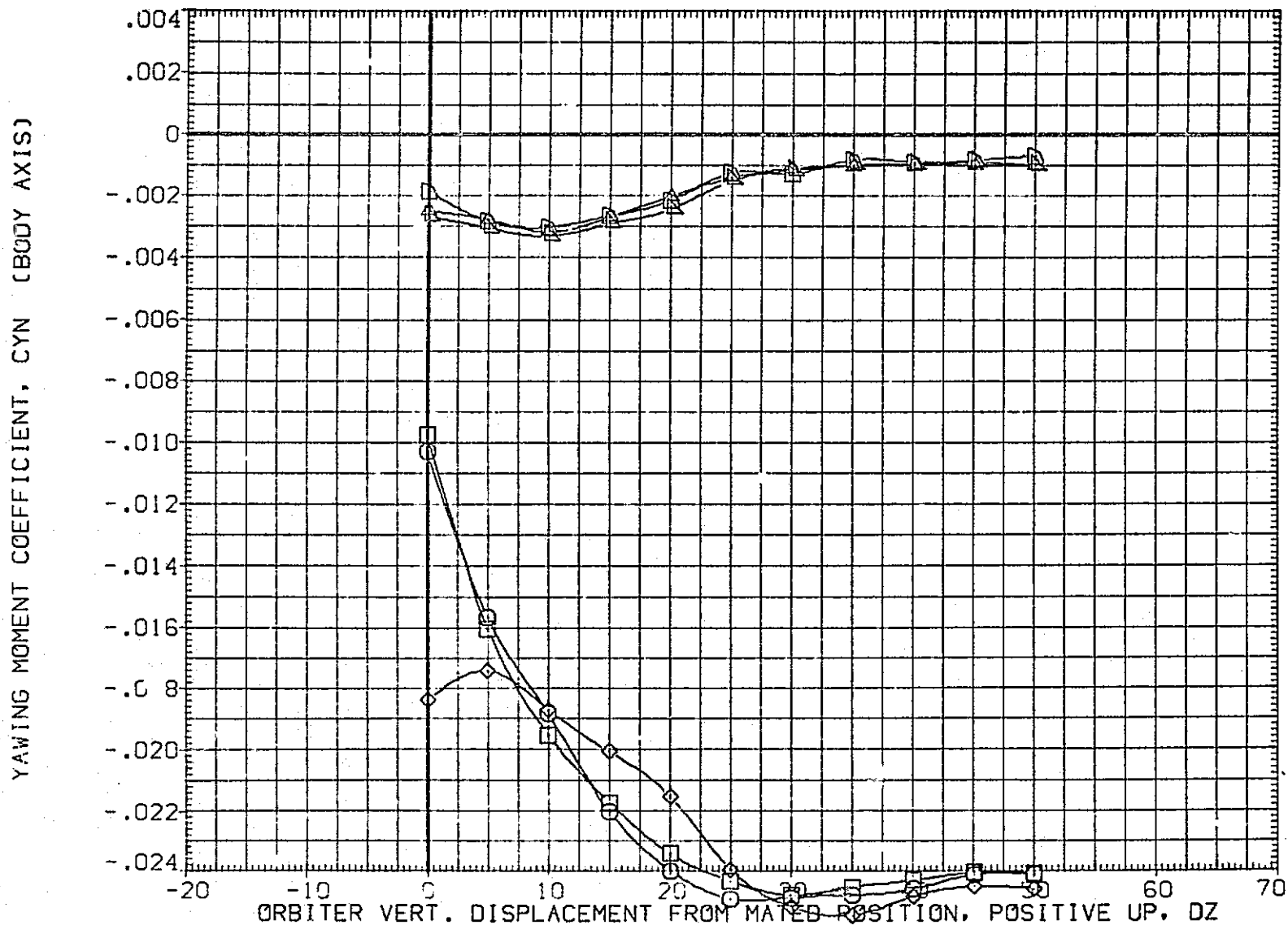


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(LFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF 5500.0000 SQ.FT.
(LFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF 327.7800 IN.
(LFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF 2348.0400 IN.
(LFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	XMRP 1339.9000 IN. XC
(LFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	YMRP .0000 IN. YC
(LFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

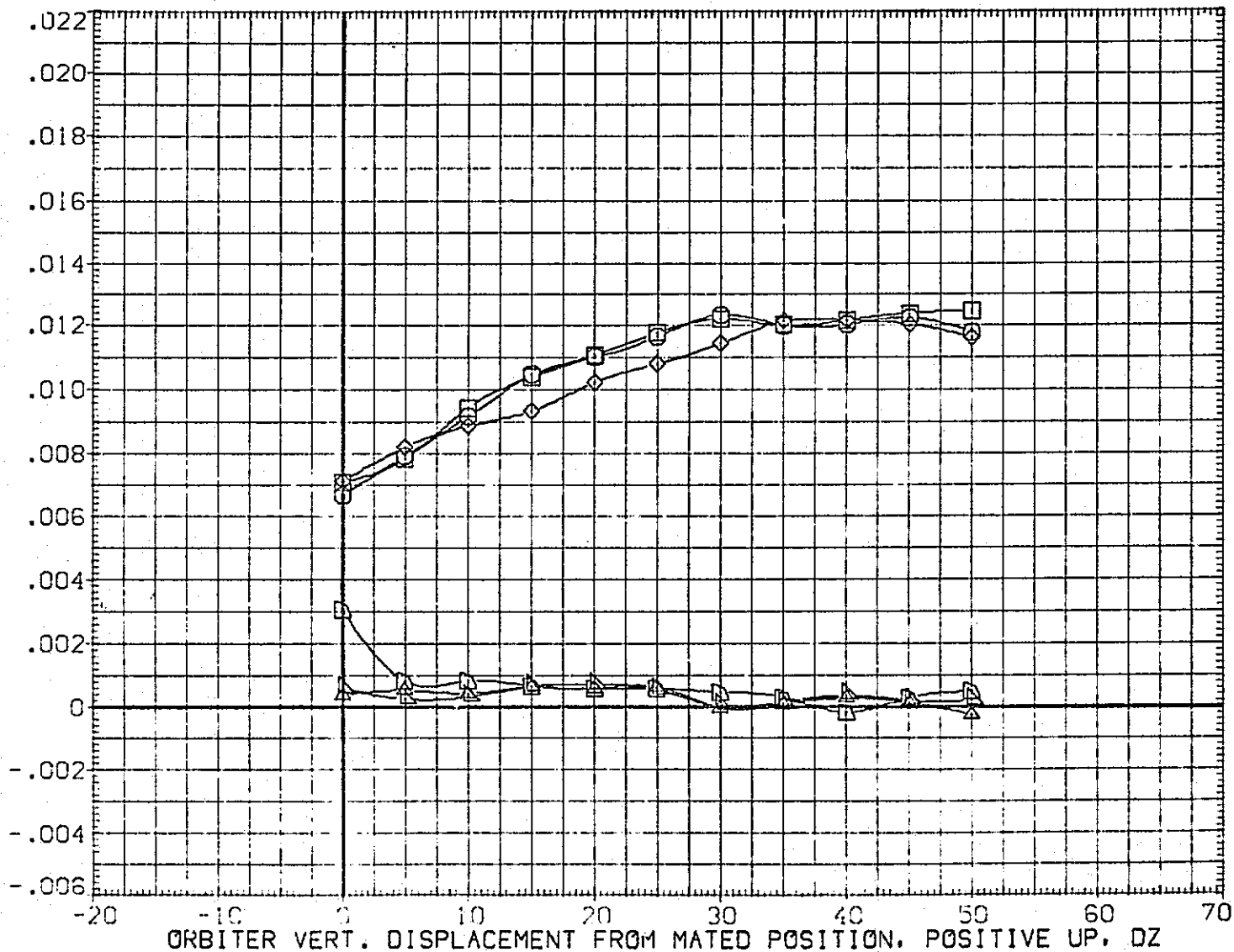


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION	
(OFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF	2690.0000 SQ.FT.
(OFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF	474.8100 IN.
(OFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF	936.6800 IN.
					XMRP	1109.0000 IN. X0
					YMRP	.0000 IN. Y0
					ZMRP	375.0000 IN. Z0
					SCALE	.0125

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

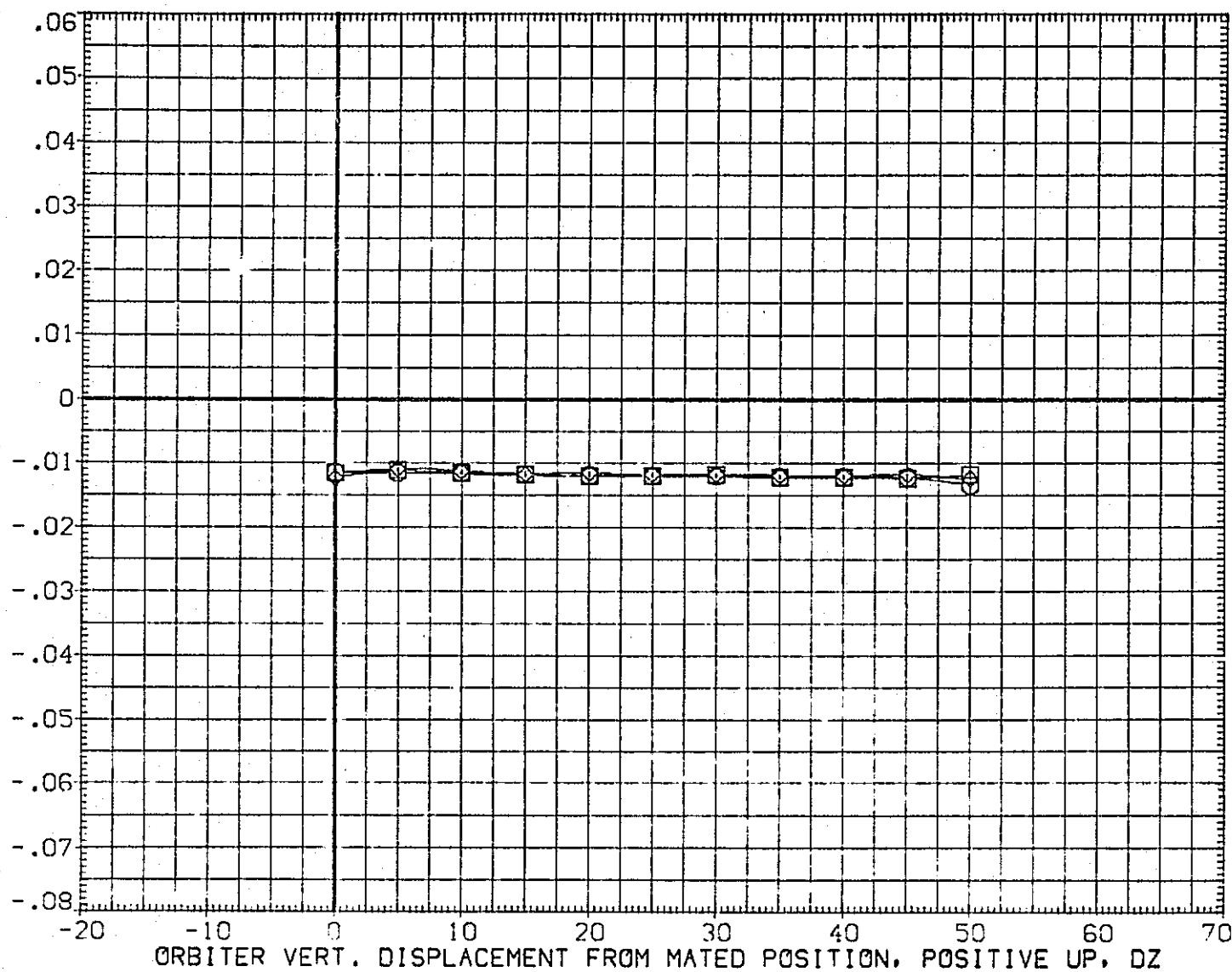


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAQ	BETAC	ELEVON	REFERENCE INFORMATION
(QFE105)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(QFE106)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(QFE107)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

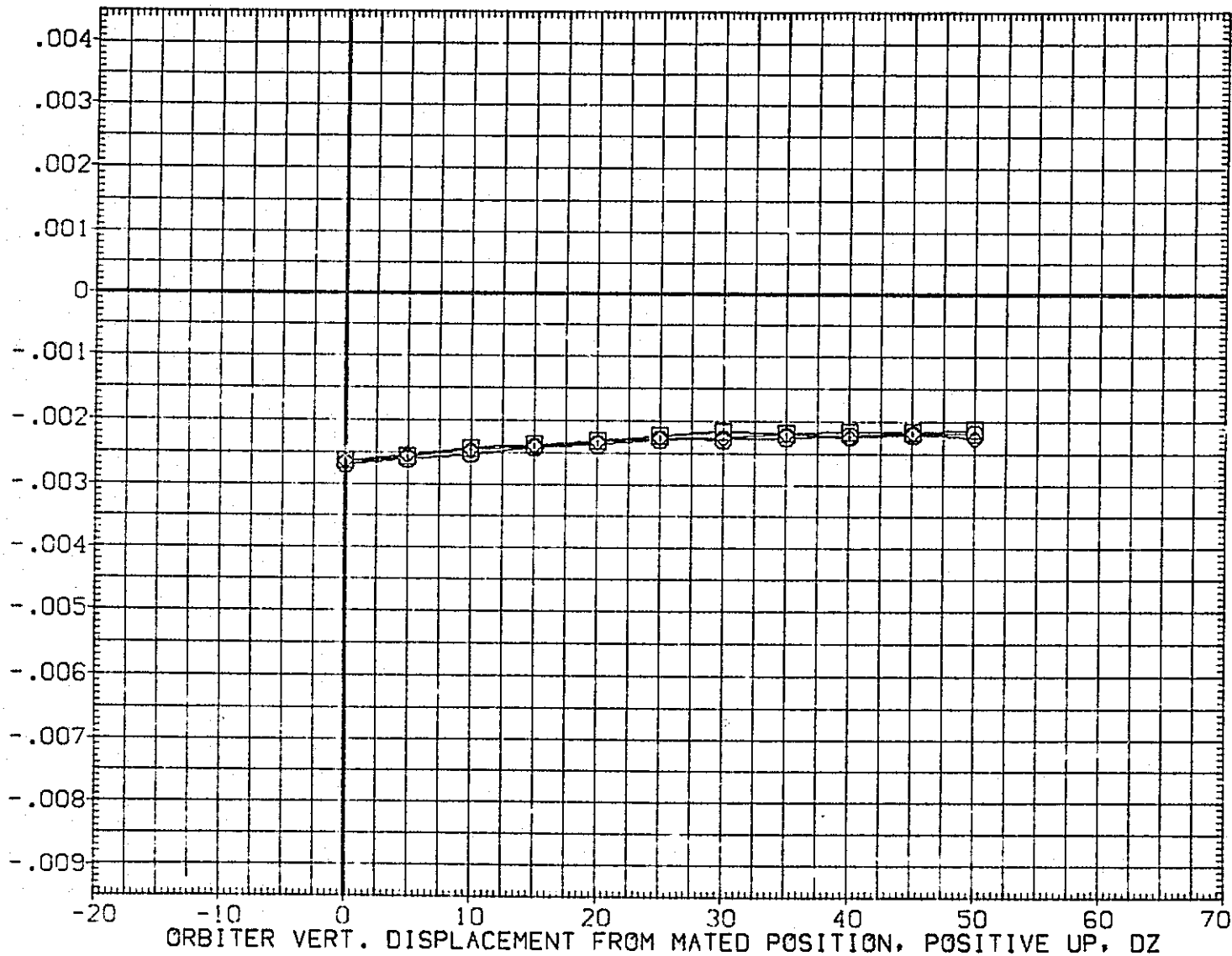


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA1	ELEV0N	REFERENCE INFORMATION		
(OFE105)	LTV44-559(CA26) 747/1 ATY 01 S1 (ORBITER DATA)	-5.000		5.000	SREF	2690.0000	SO.FT.
(OFE106)	LTV44-559(CA26) 747/1 ATY 01 S1 (ORBITER DATA)	-5.000		5.000	LREF	474.8100	IN.
(OFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF	936.6800	IN.
					XMRP	1109.0000	IN. X0
					YMRP	.0000	IN. Y3
					ZMRP	375.0000	IN. Z0
					SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CB19

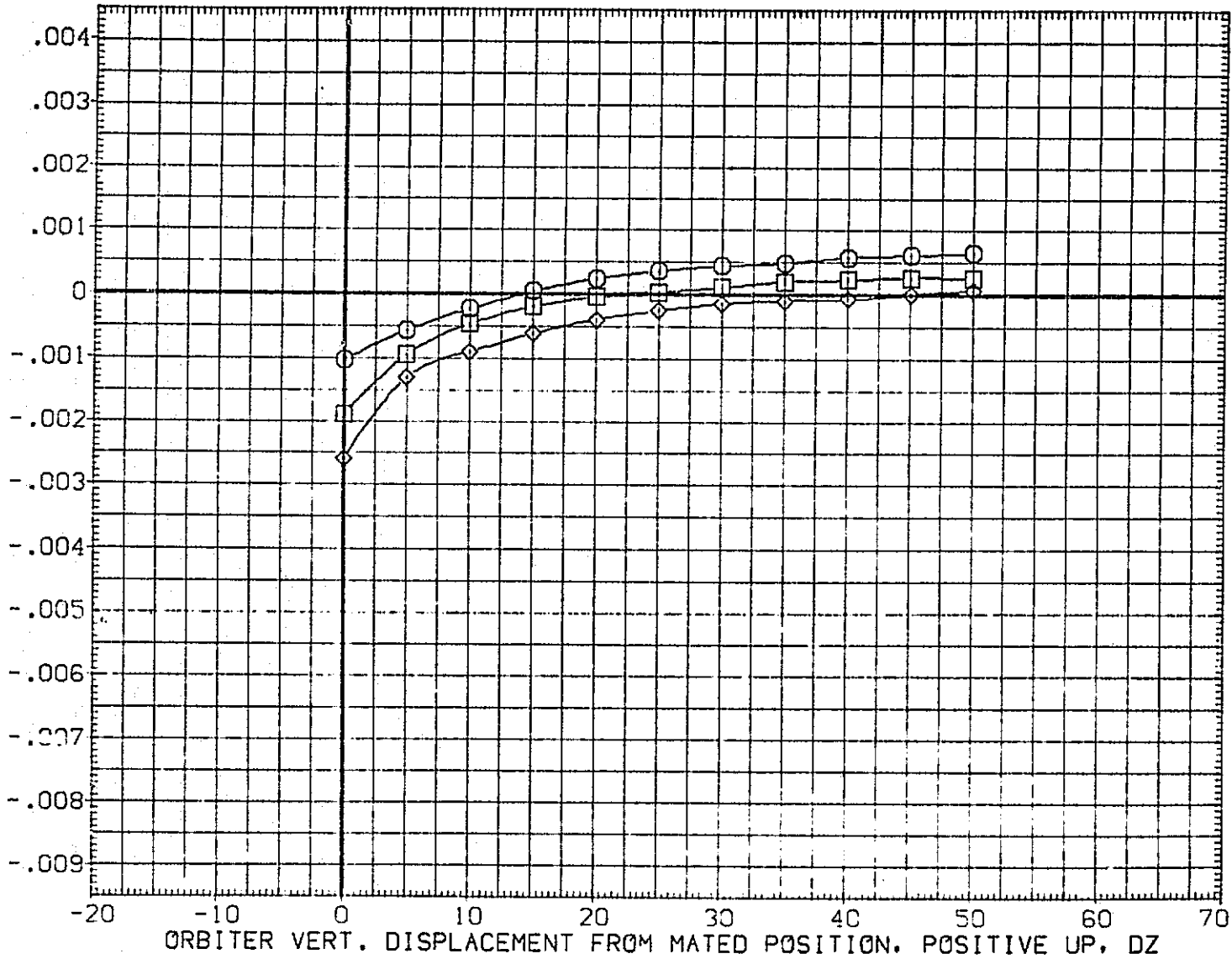


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(DFE105)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(DFE106)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(DFE107)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA, DCPSB

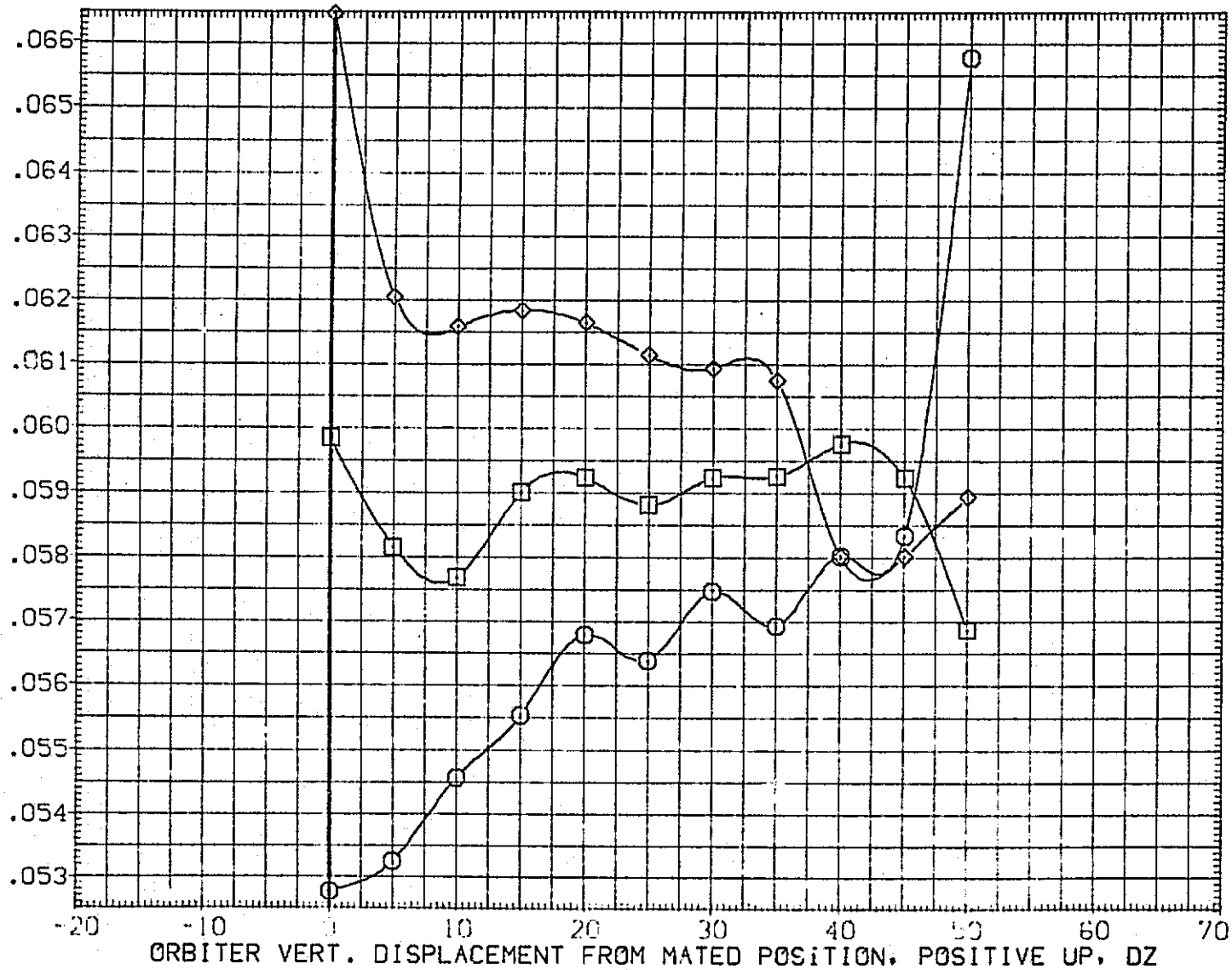


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(PFE105)	LTV44-559(CA26) 747/1 ATY 02 SI (CARRIER DATA)		-5.000	5.000	SREF	5500.0000	50.FT.
(PFE106)	LTV44-559(CA26) 747/1 ATY 02 SI (CARRIER DATA)		-5.000	5.000	LREF	327.7800	IN.
(PFE107)	LTV44-559(CA26) 747/1 ATY 02 SI (CARRIER DATA)		-5.000	5.000	BREF	2348.0400	IN.
					XMRP	1739.9000	IN. XC
					YMRP	.0000	IN. YC
					ZMRP	190.7500	IN. ZC
					SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

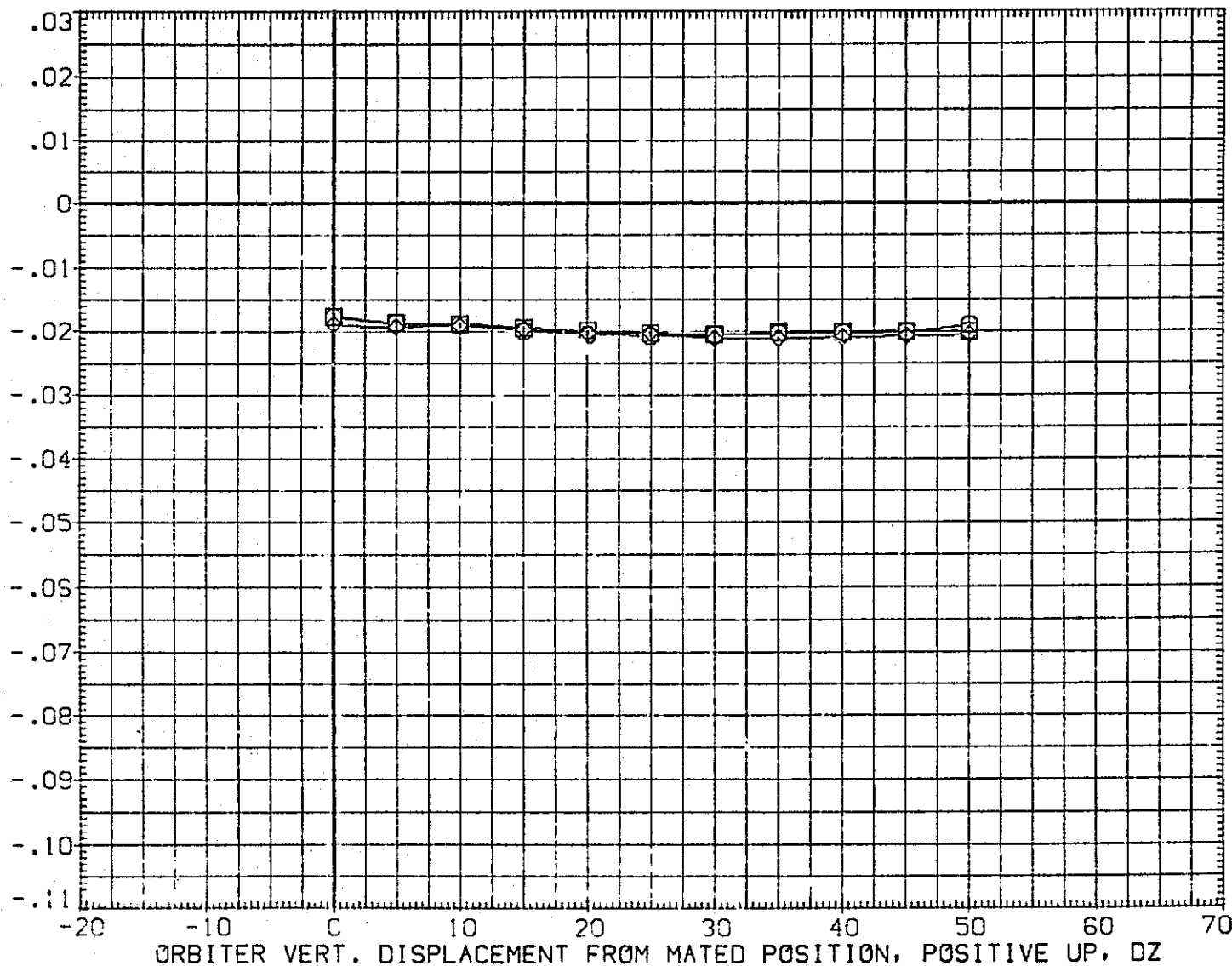


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(PFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF	5500.0000	SQ.FT.
(PFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF	337.7800	IN.
(PFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF	2348.0400	IN.
					XMRP	1339.9000	IN. XC
					YMRP	.0000	IN. YC
					ZMRP	190.7500	IN. ZC
					SCALE	.0125	

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

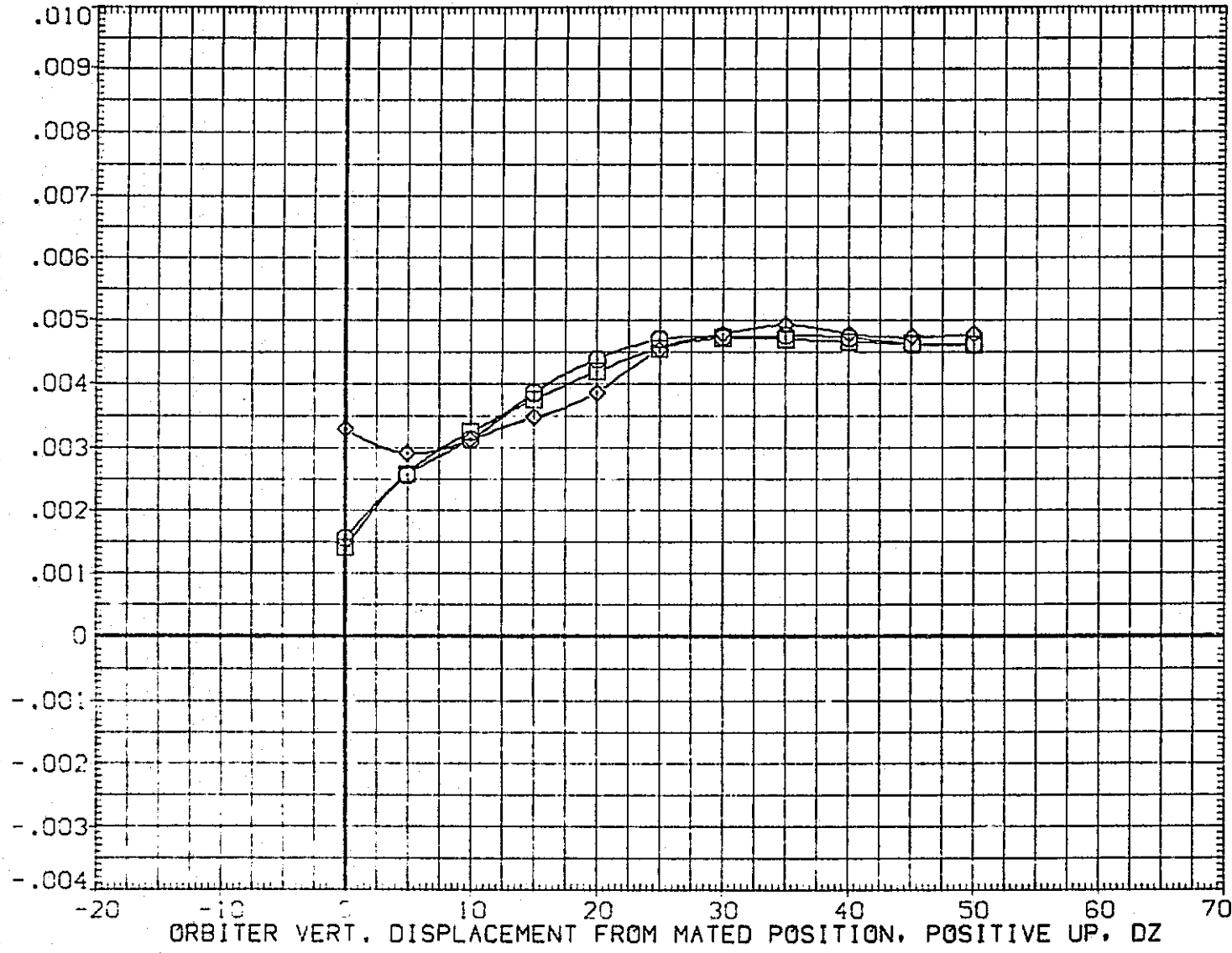


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(PFE105)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000
(PFE106)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000
(PFE107)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

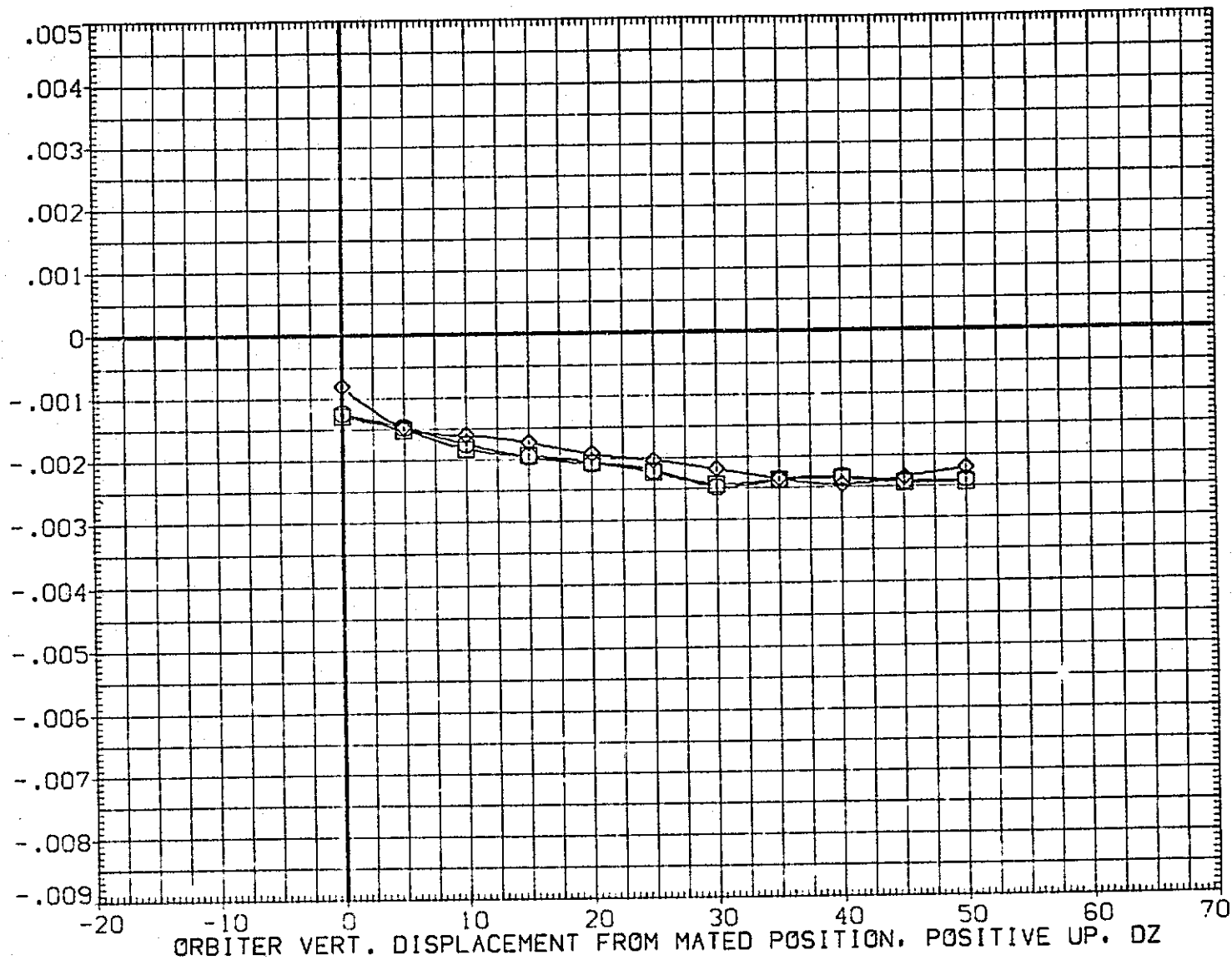


FIG. 235 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. XO
(KFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. YO
(KFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. ZO
					SCALE .0125

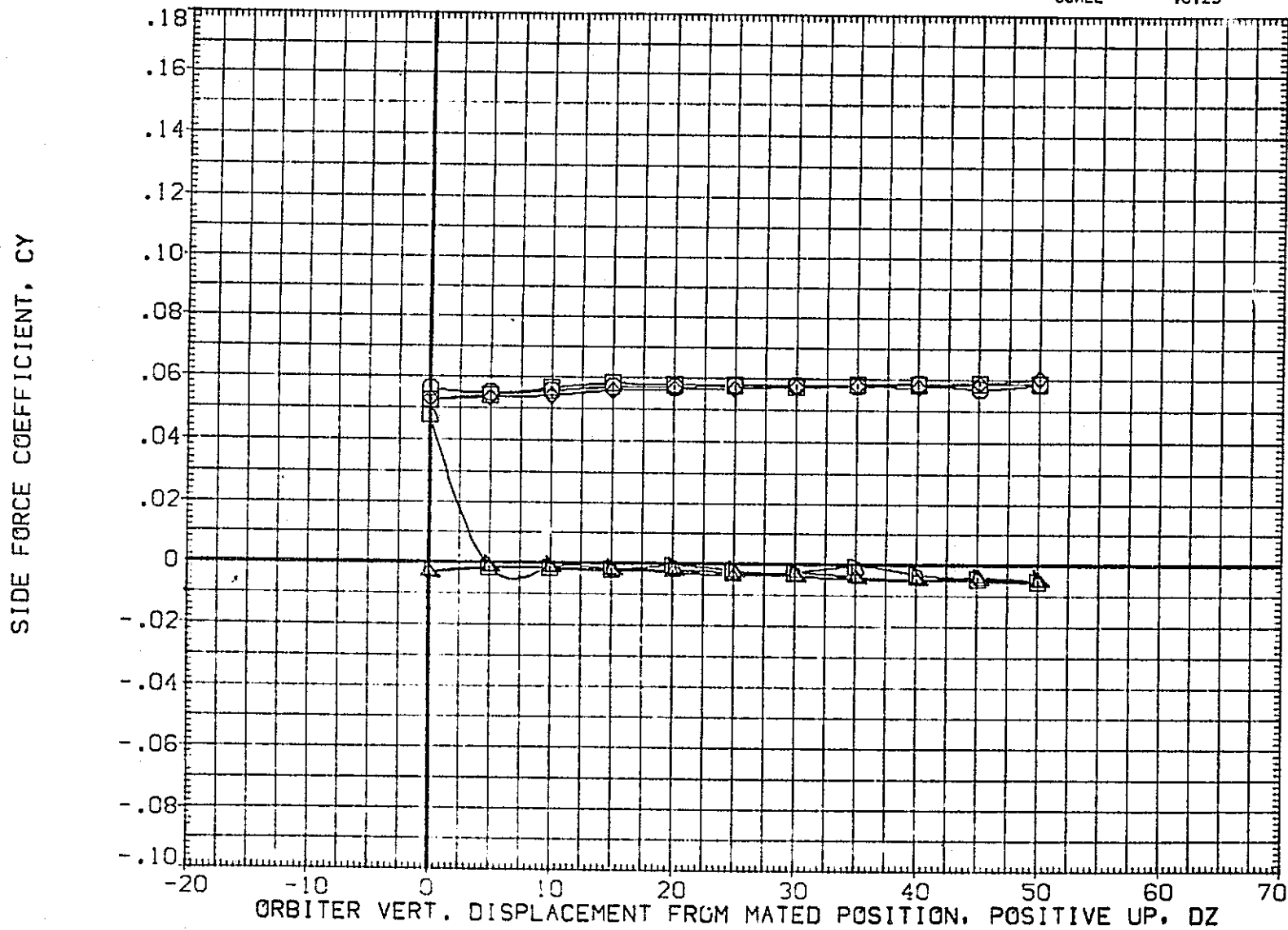


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE080)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE081)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE082)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE045)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. XO
(KFE046)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	YMRP .0000 IN. YO
(KFE047)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. ZO
					SCALE .0125

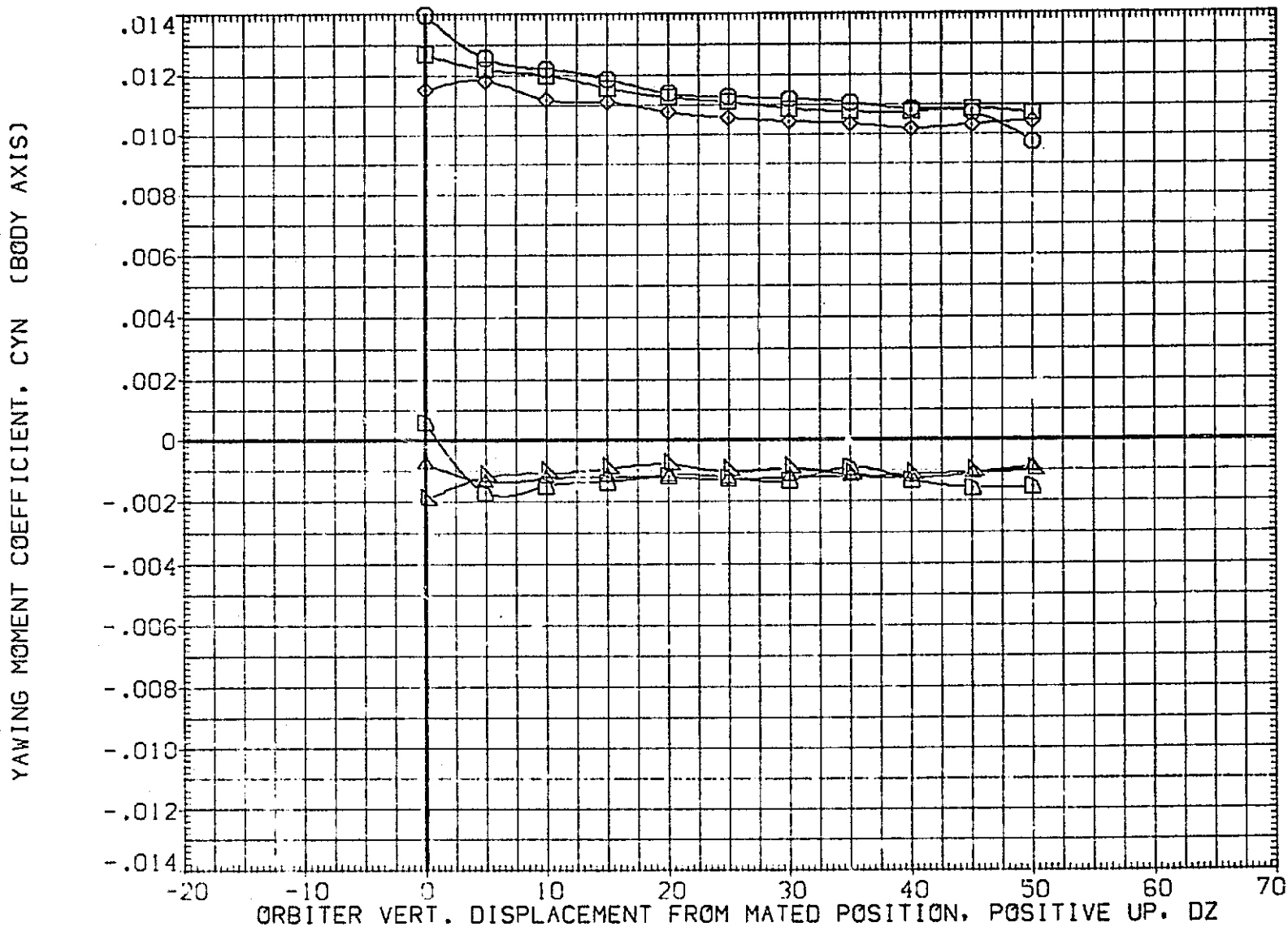


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION
(KFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

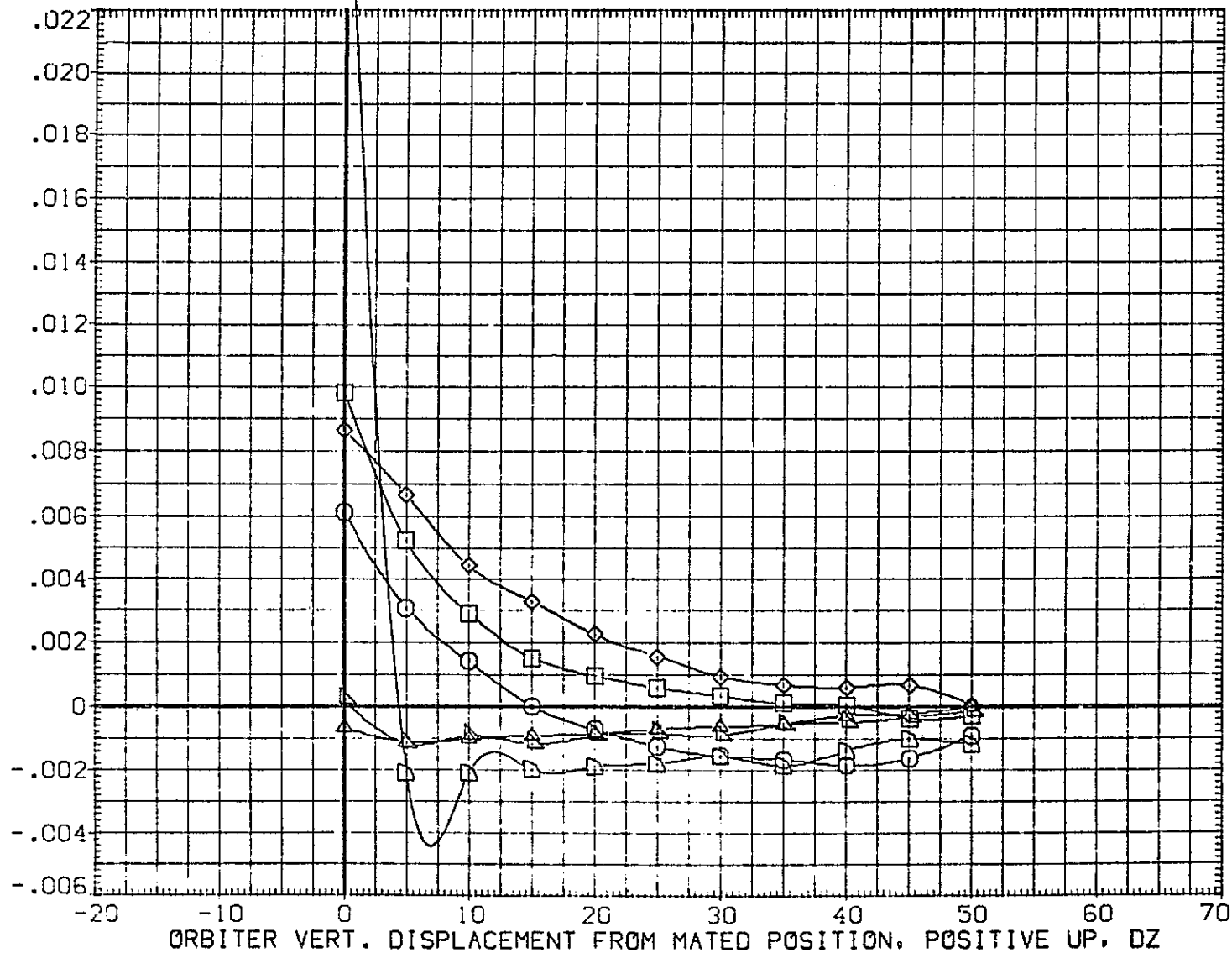


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

C.8

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. XO
(KFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. YO
(KFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. ZO
					SCALE .0125

ORBITER STRUT LEFT HAND SIDE PRESSURE COEFFICIENT, CPS1

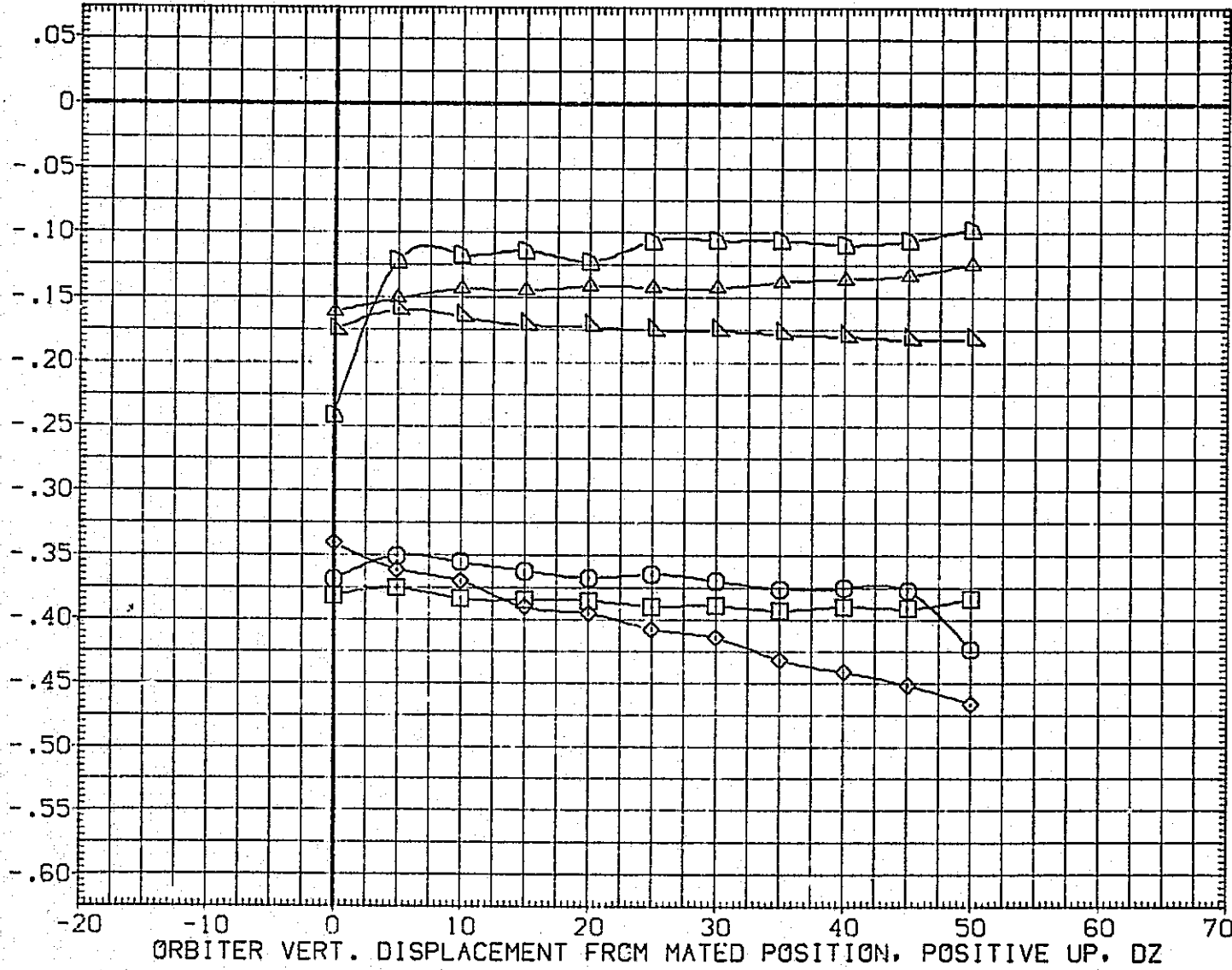


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT RIGHT HAND SIDE PRESSURE COEFFICIENT, CPS2

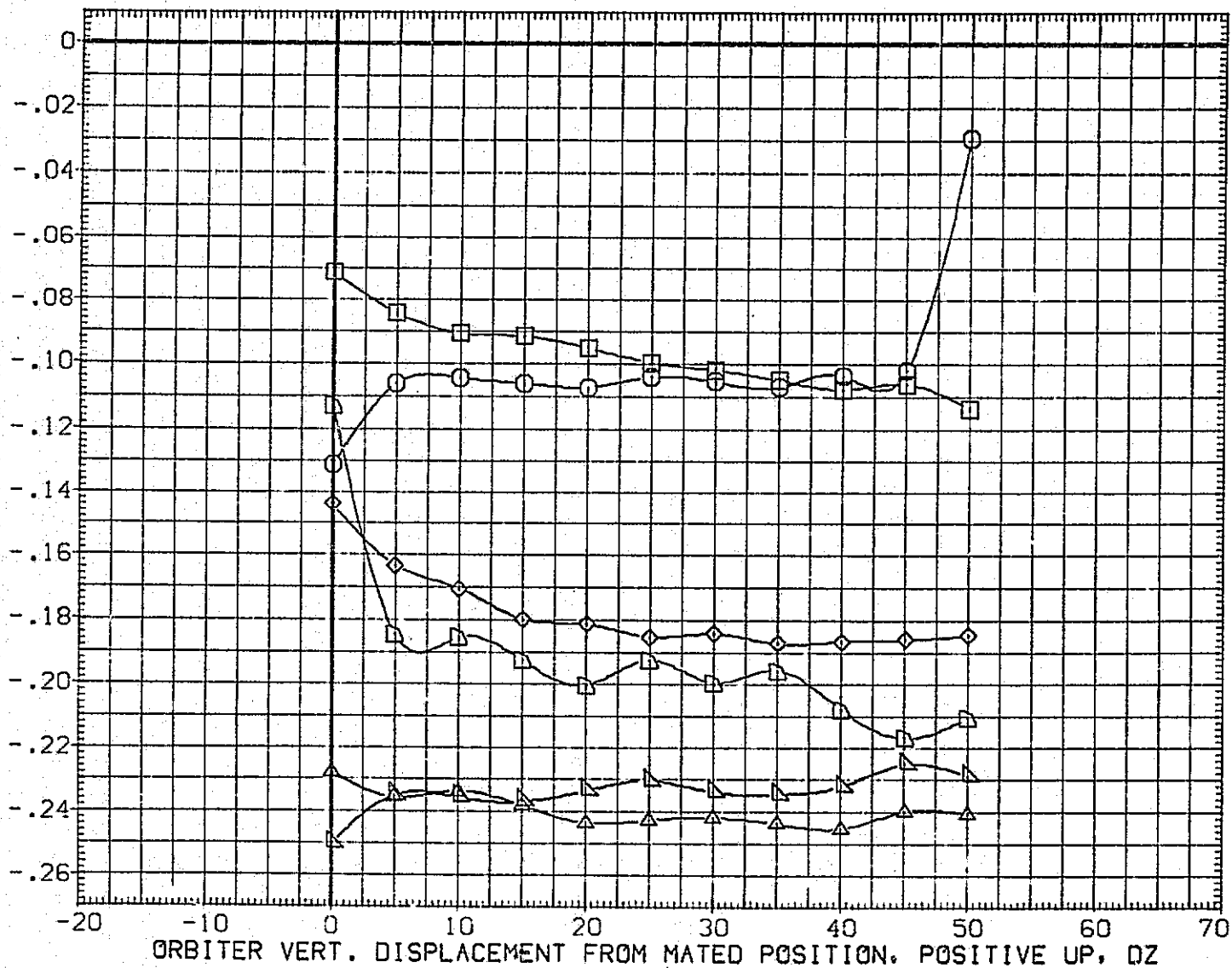


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(LFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF	5500.0000	SQ.FT.
(LFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF	327.7800	IN.
(LFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF	2348.0400	IN.
(LFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	XMRP	1339.9000	IN. XC
(LFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	YMRP	.0000	IN. YC
(LFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	ZMRP	190.7500	IN. ZC
					SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

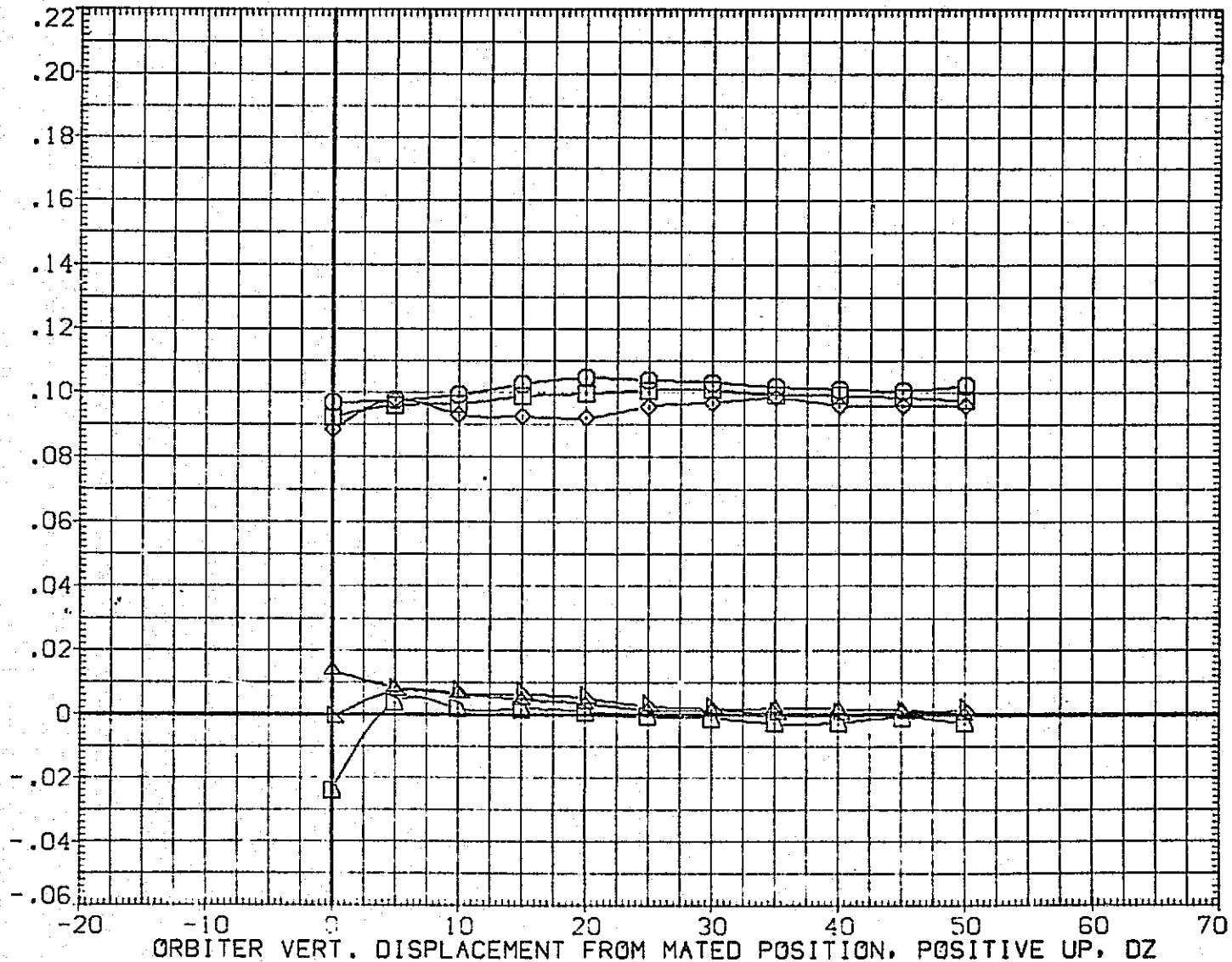


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA D	BETA C	ELEVON	REFERENCE INFORMATION
(LFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.5	.000	5.000	SREF 5500.0000 SQ.FT.
(LFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.5	.000	5.000	LREF 327.7800 IN.
(LFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.5	.000	5.000	BREF 2348.0400 IN.
(LFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(LFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(LFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

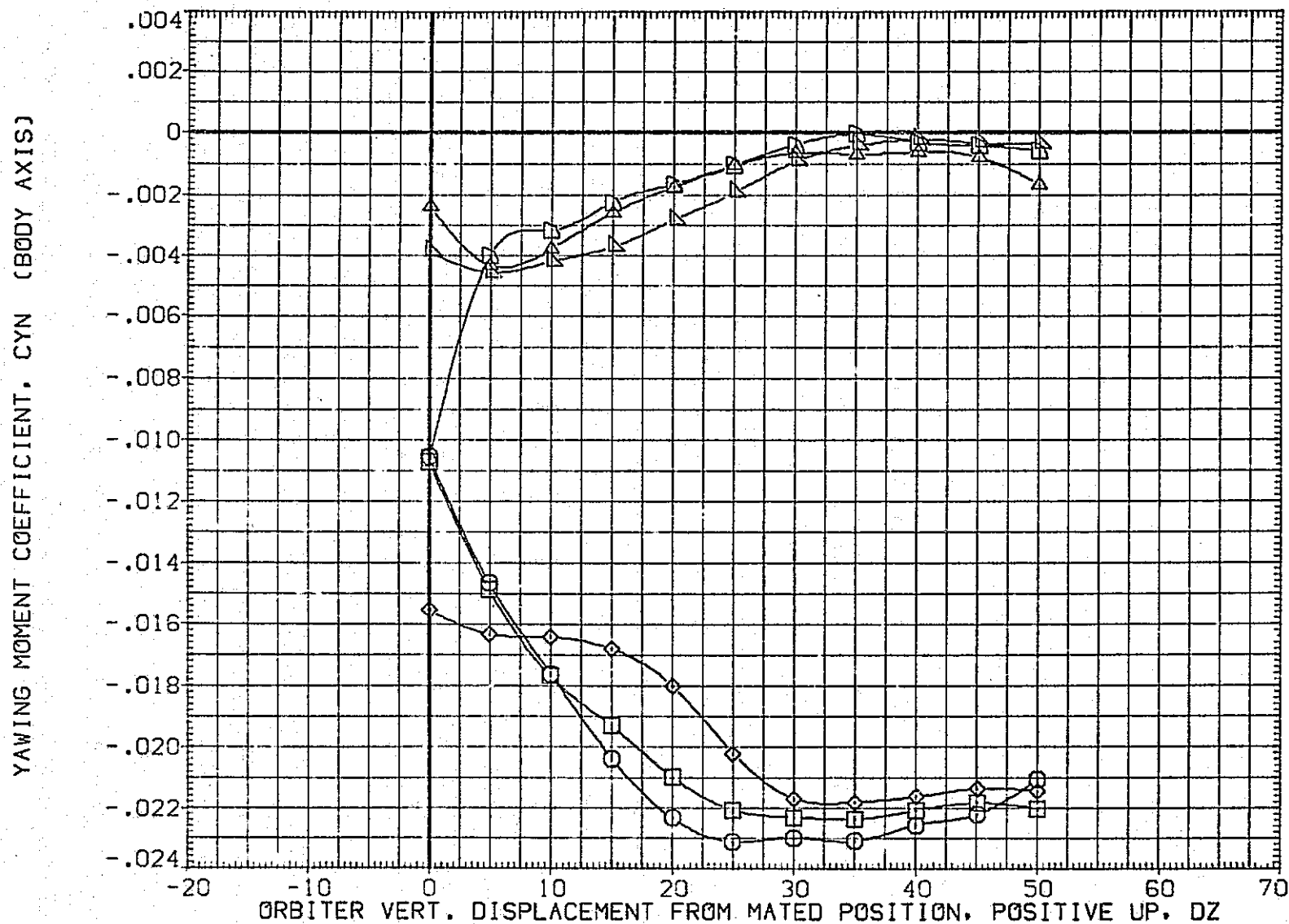


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(LFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF 5500.0000 SQ.FT.
(LFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF 327.7800 IN.
(LFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF 2348.0400 IN.
(LFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	XMRP 1339.9000 IN. XC
(LFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	YMRP .0000 IN. YC
(LFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

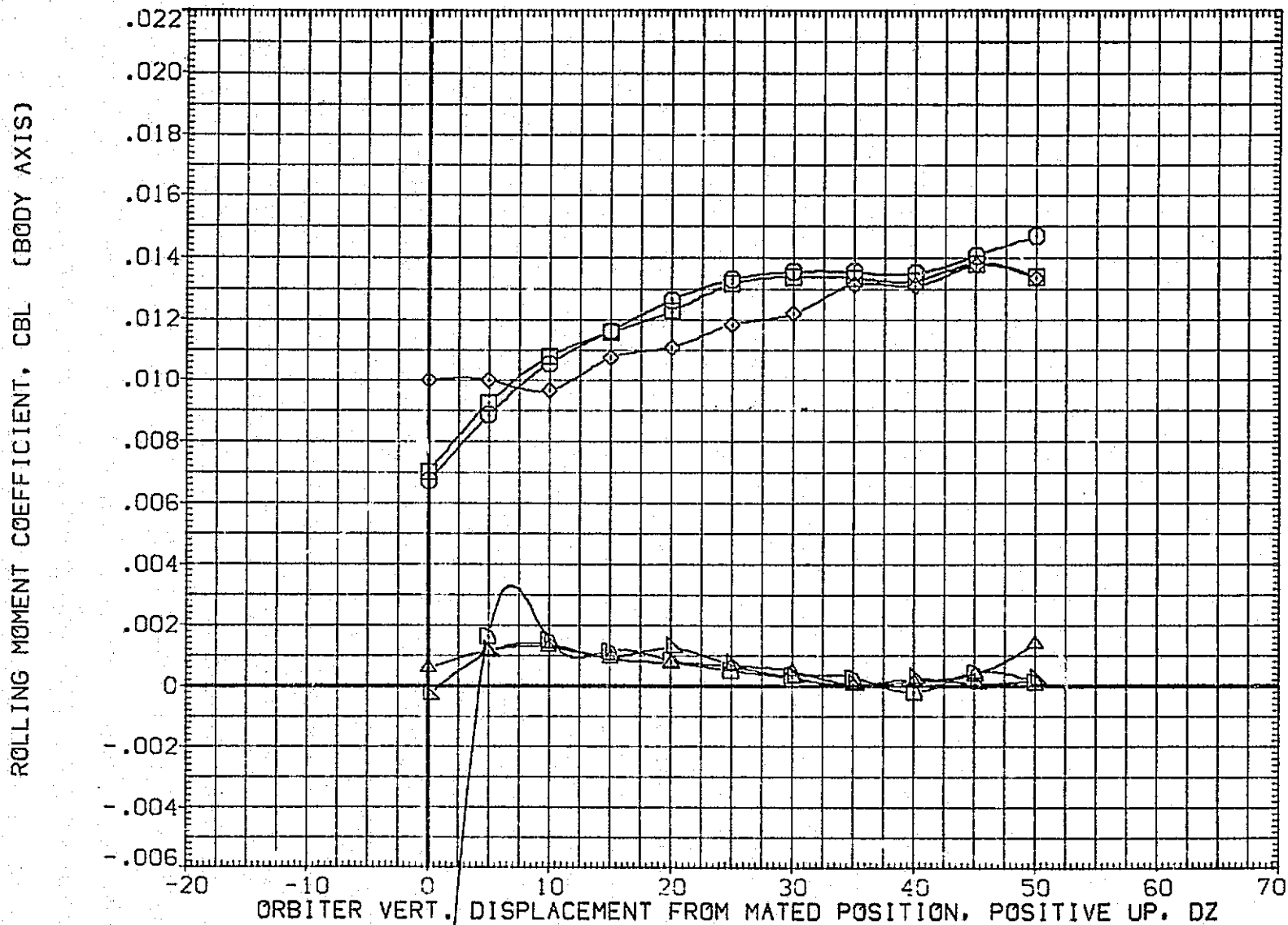





FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(QFE080)  LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

(QFE081)  LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

(QFE082)  LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

BETA0 BETA1 ELEVON

-5.000 5.000

-5.000 5.000

-5.000 5.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.9100 IN.

BREF 936.6800 IN.

XMRP 1109.0000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0125

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

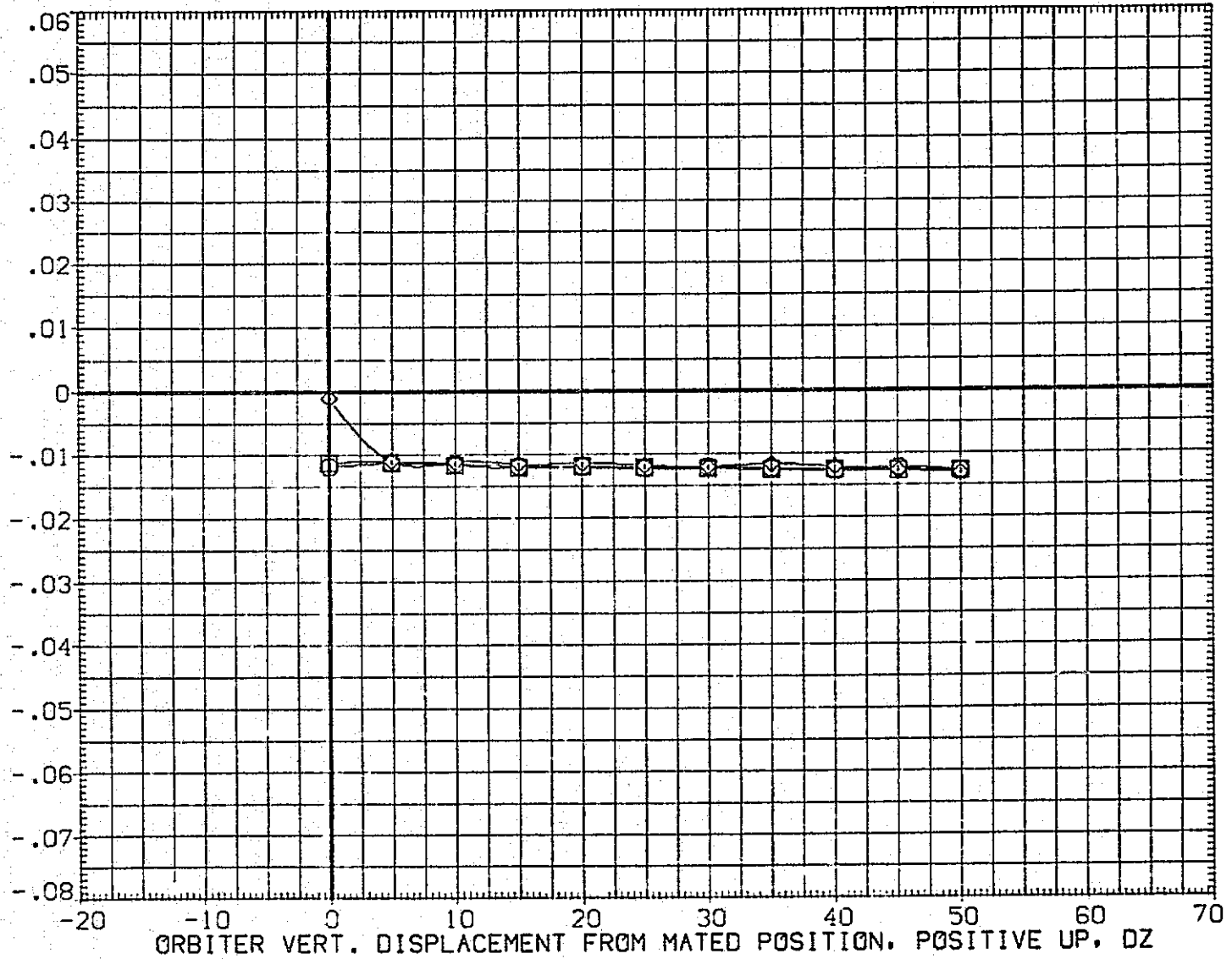


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(CFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(CFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(CFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

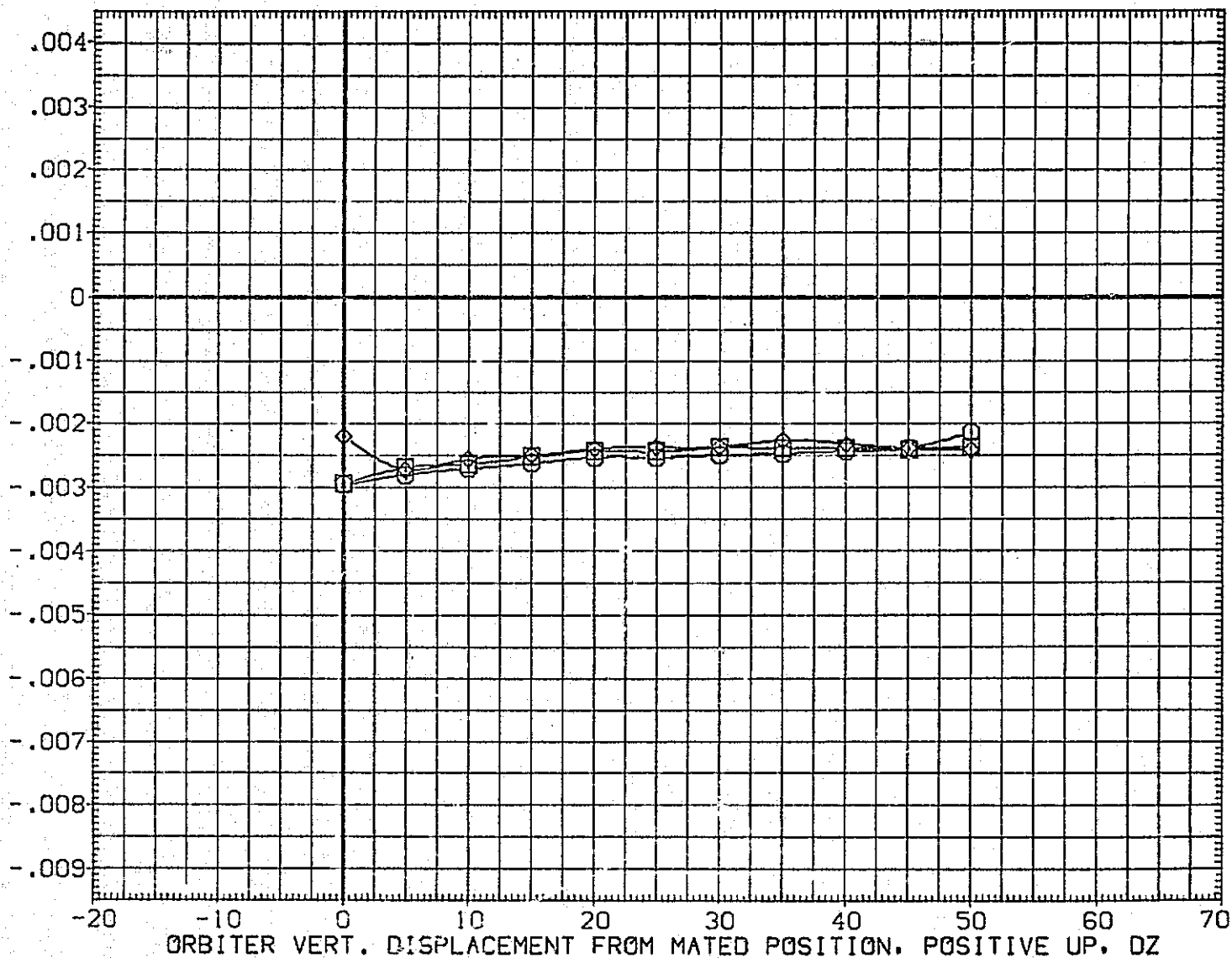


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA1	ELEVON
(CFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(CFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(CFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

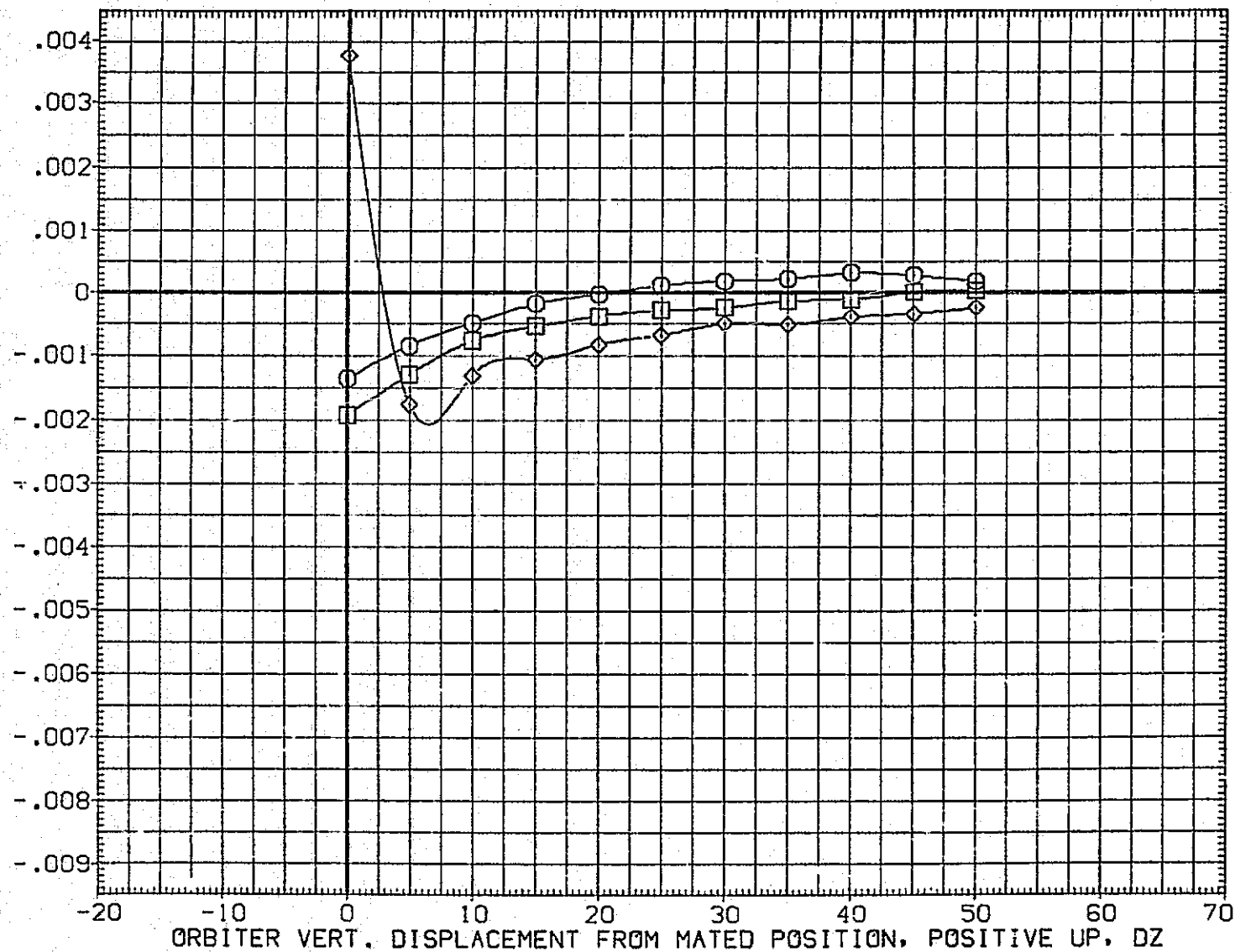


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(OFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(OFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(OFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA, DCPSB

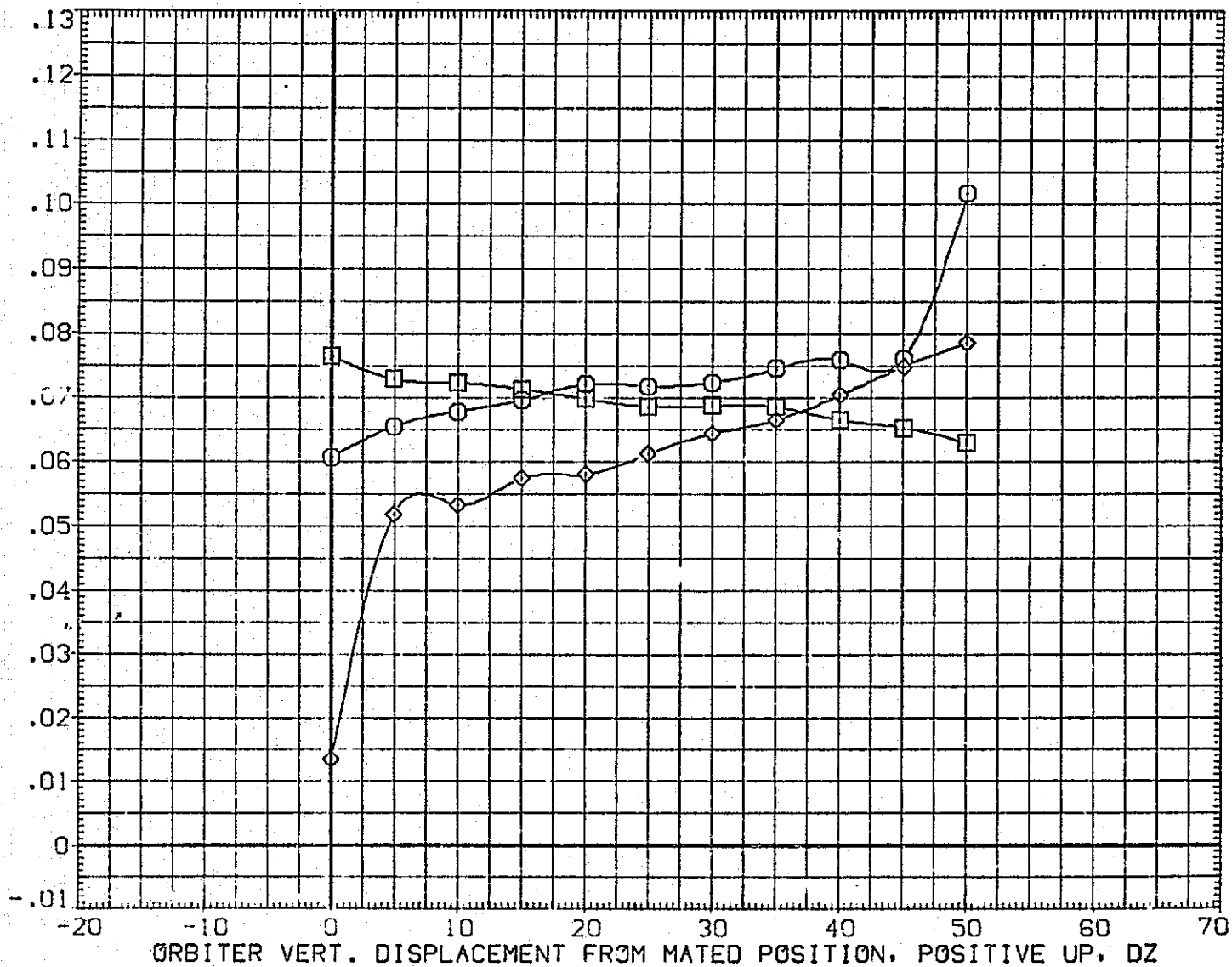


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(PFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA0	BETAC	ELEVON
-5.000	5.000	5.000
-5.000	5.000	5.000
-5.000	5.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	SO. FT.
LREF	327.7800	IN.
BREF	2349.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

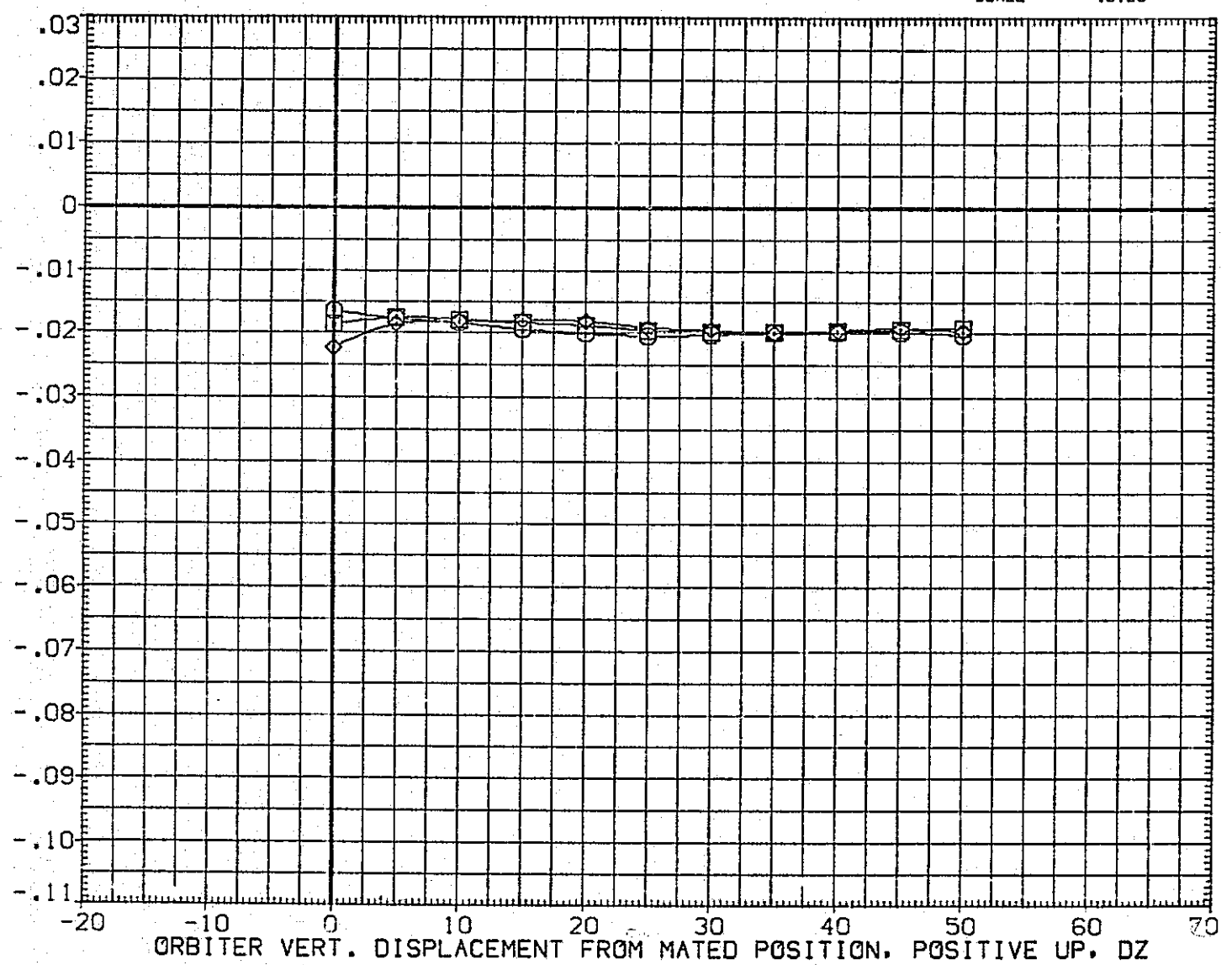


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(PFE080) ○	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE081) □	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE082) ◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA0	BETAC	ELEVON
	-5.000	5.000
	-5.000	5.000
	-5.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, C_{YNB}

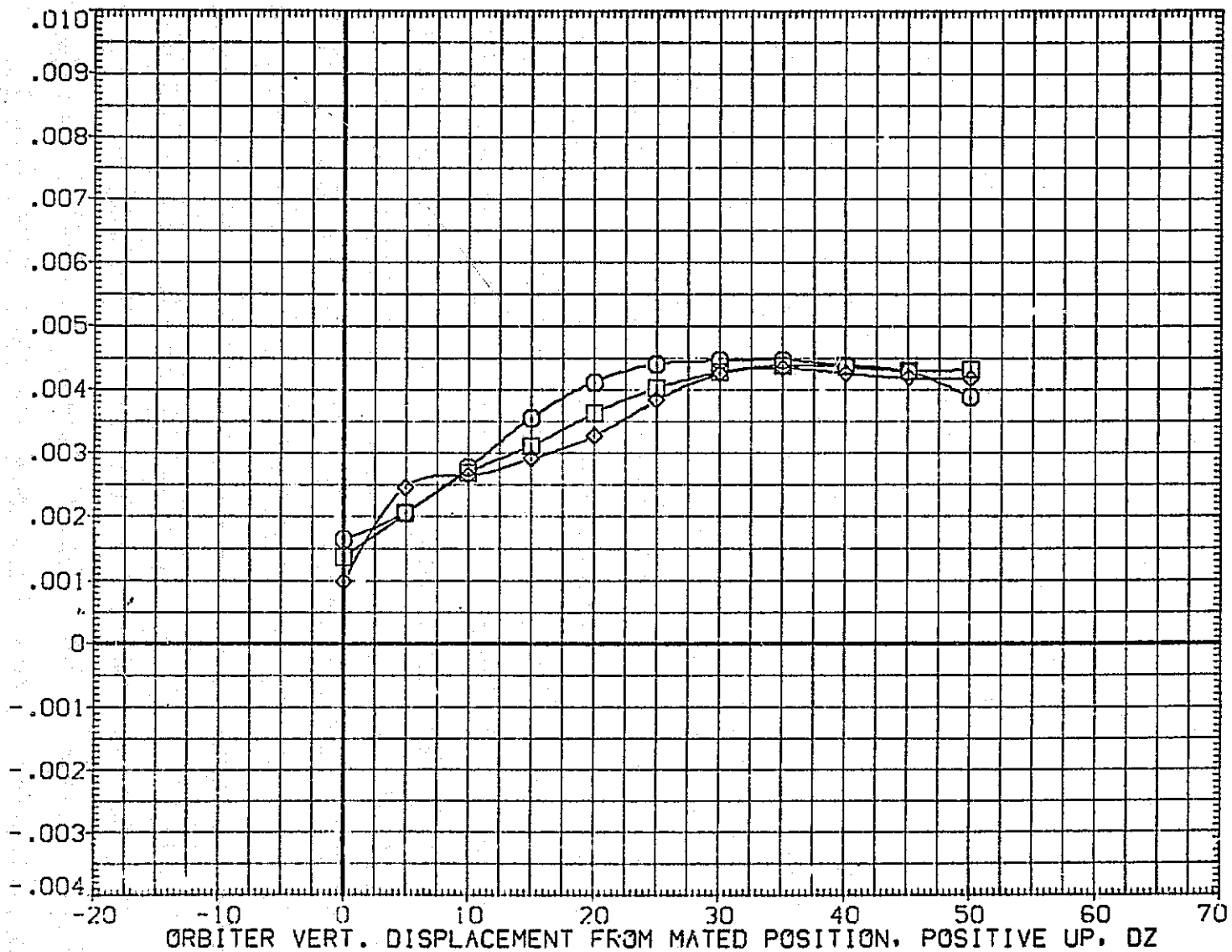


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(PFE080)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE081)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE082)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA D	BETA C	ELEVON
-5.000	5.000	
-5.000	5.000	
-5.000	5.000	

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

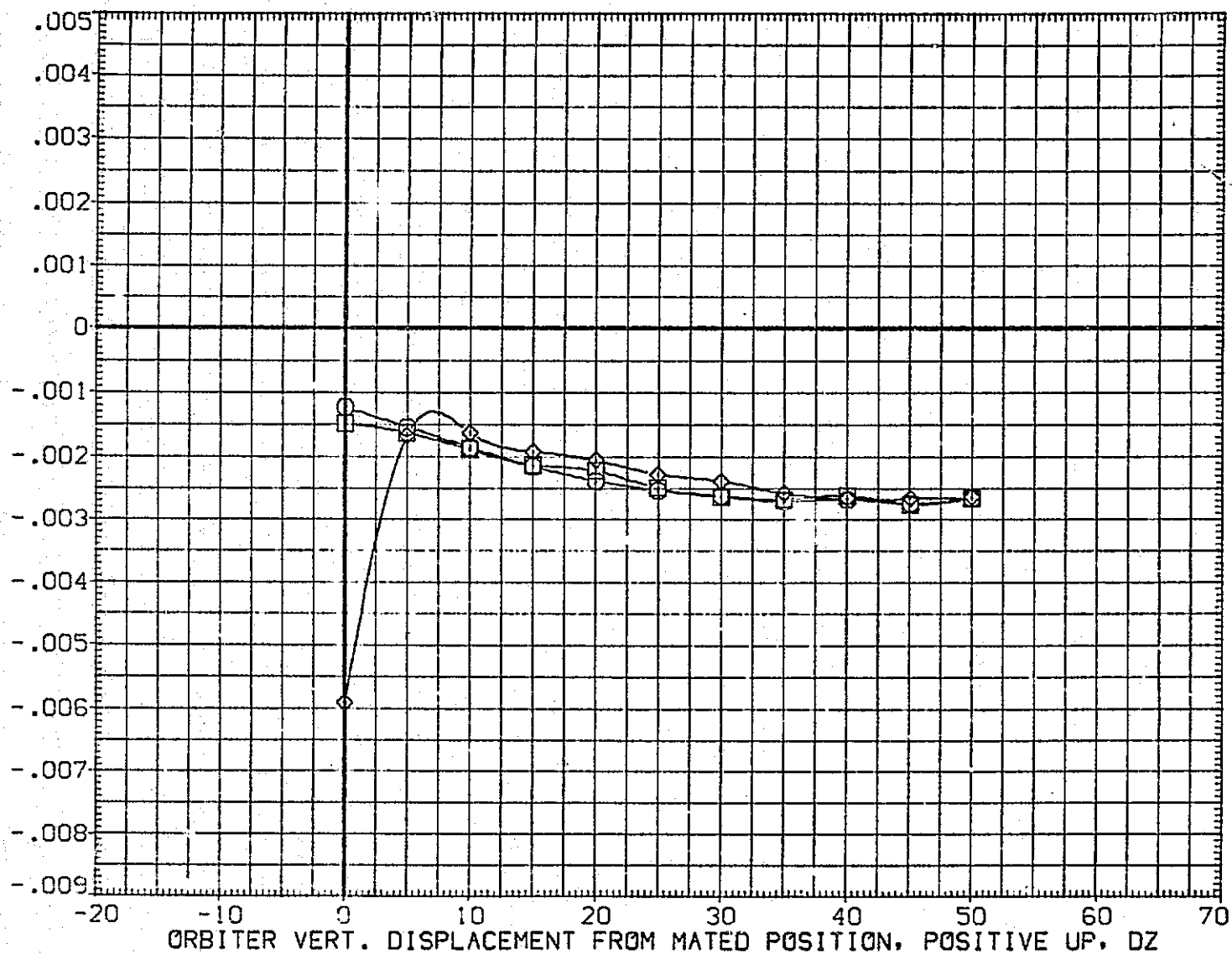


FIG. 236 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

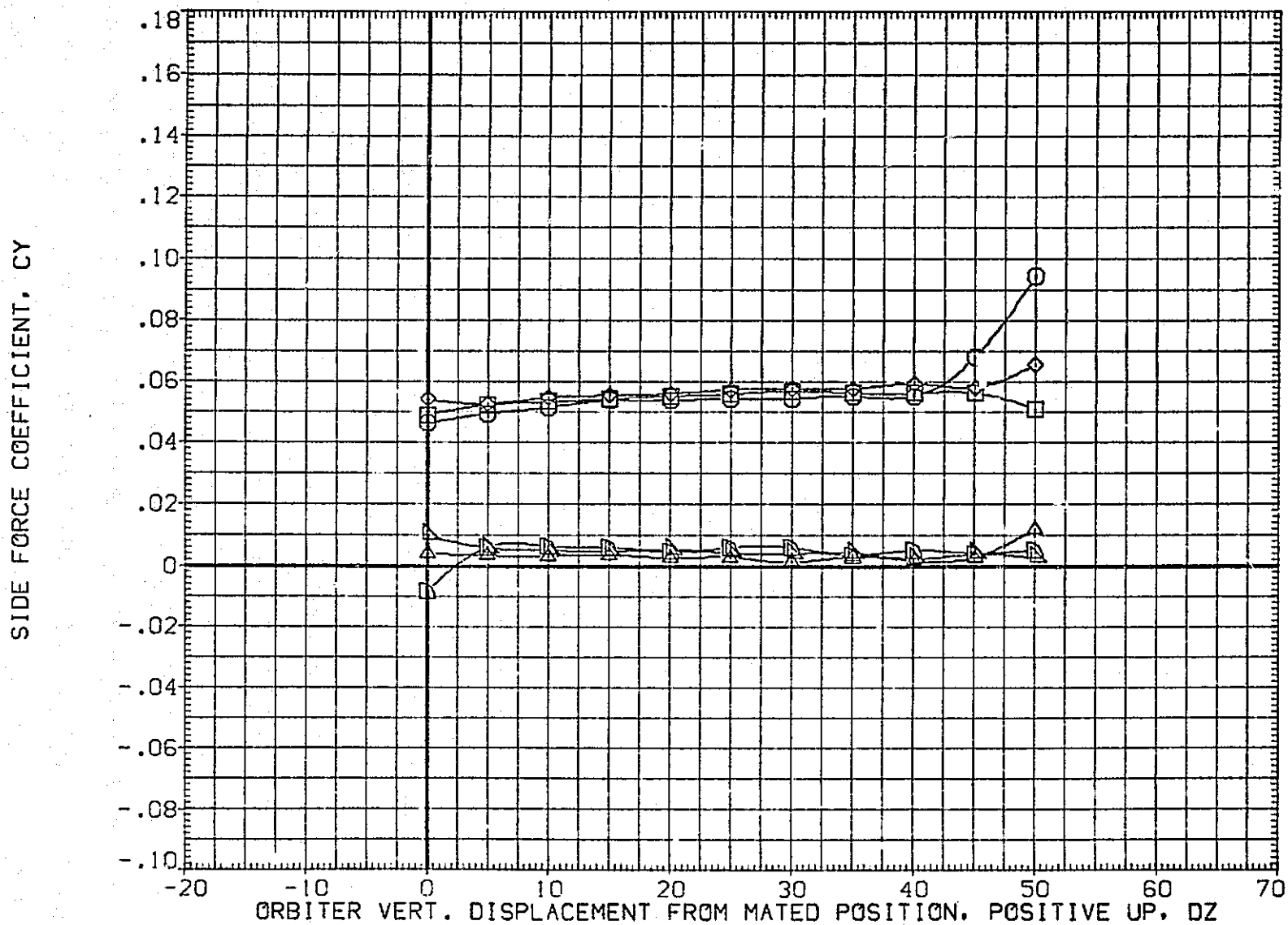


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION		
(KFE101)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF	2690.0000	50.FT.
(KFE102)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF	474.8100	IN.
(KFE103)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF	336.6800	IN.
(KFE089)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP	1109.0000	IN. X0
(KFE090)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP	.0000	IN. Y0
(KFE091)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP	375.0000	IN. Z0
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

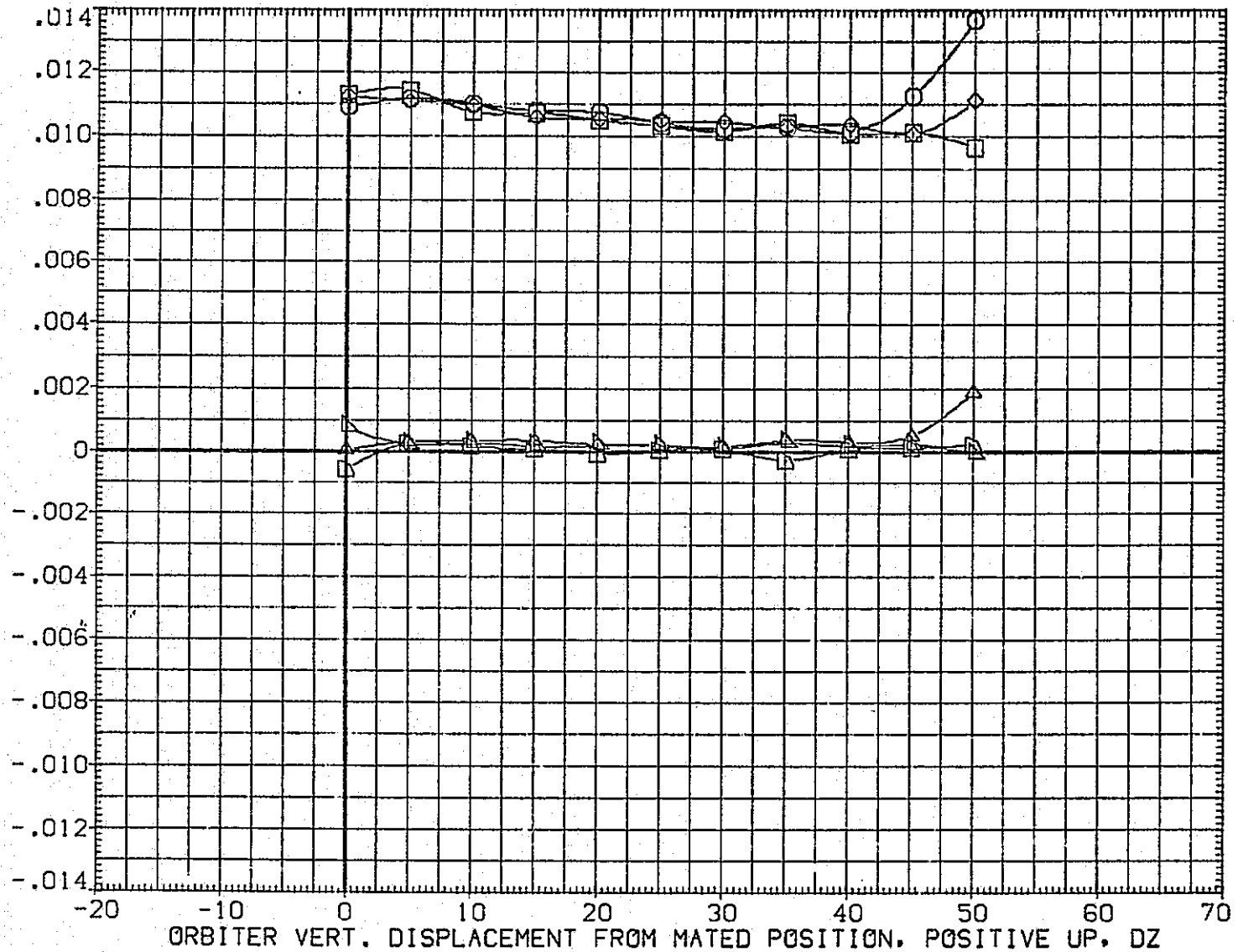


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(KFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF	2690.0000	SO.FT.
(KFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF	474.8100	IN.
(KFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF	936.6800	IN.
(KFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP	1109.0000	IN. X0
(KFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP	.0000	IN. Y0
(KFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP	375.0000	IN. Z0
					SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

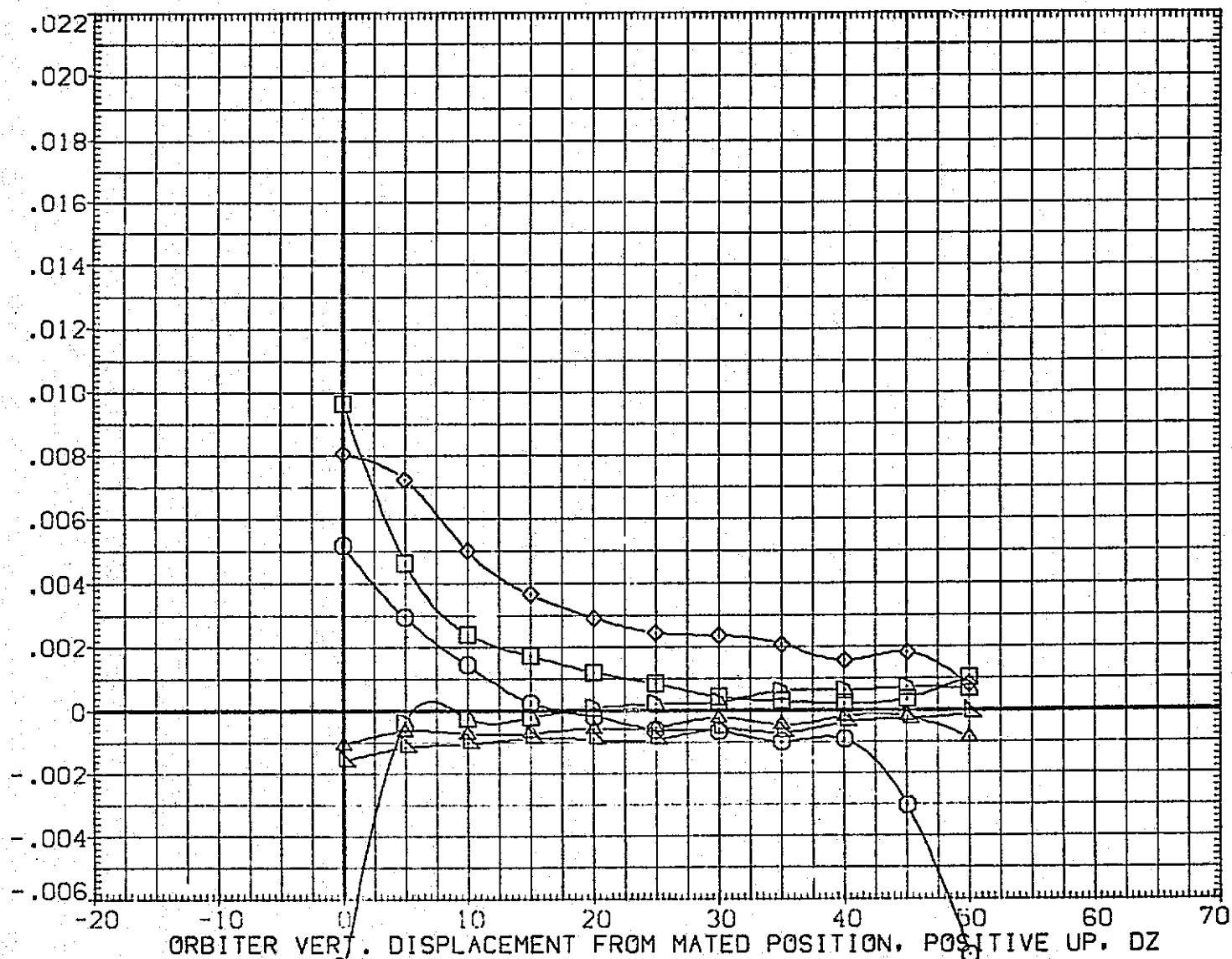


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT LEFT HAND SIDE PRESSURE COEFFICIENT, CPS1

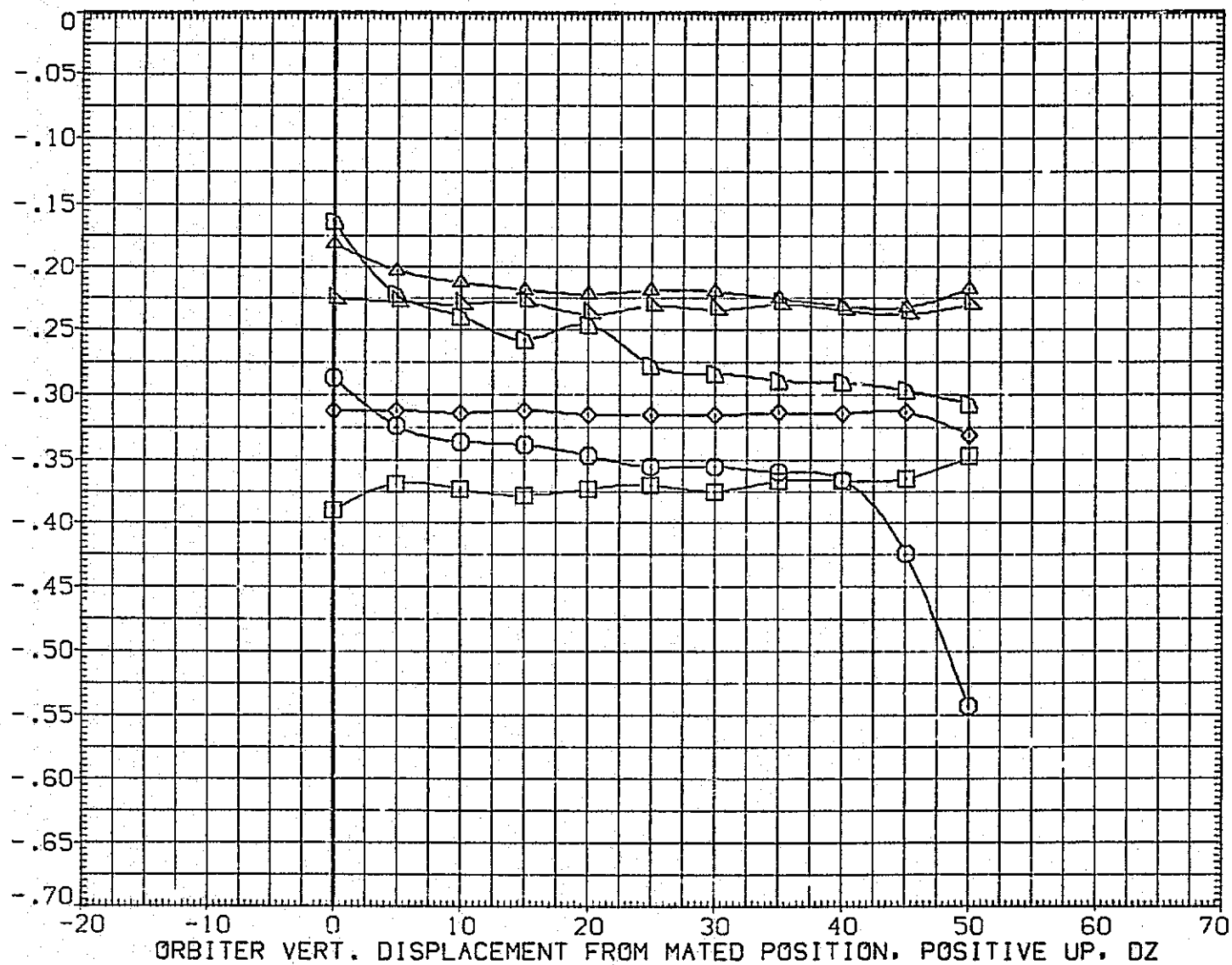


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(KFE101)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(KFE102)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(KFE103)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
(KFE089)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	XMRP 1109.0000 IN. X0
(KFE090)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	YMRP .0000 IN. Y0
(KFE091)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000		5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT RIGHT HAND SIDE PRESSURE COEFFICIENT, CPS2

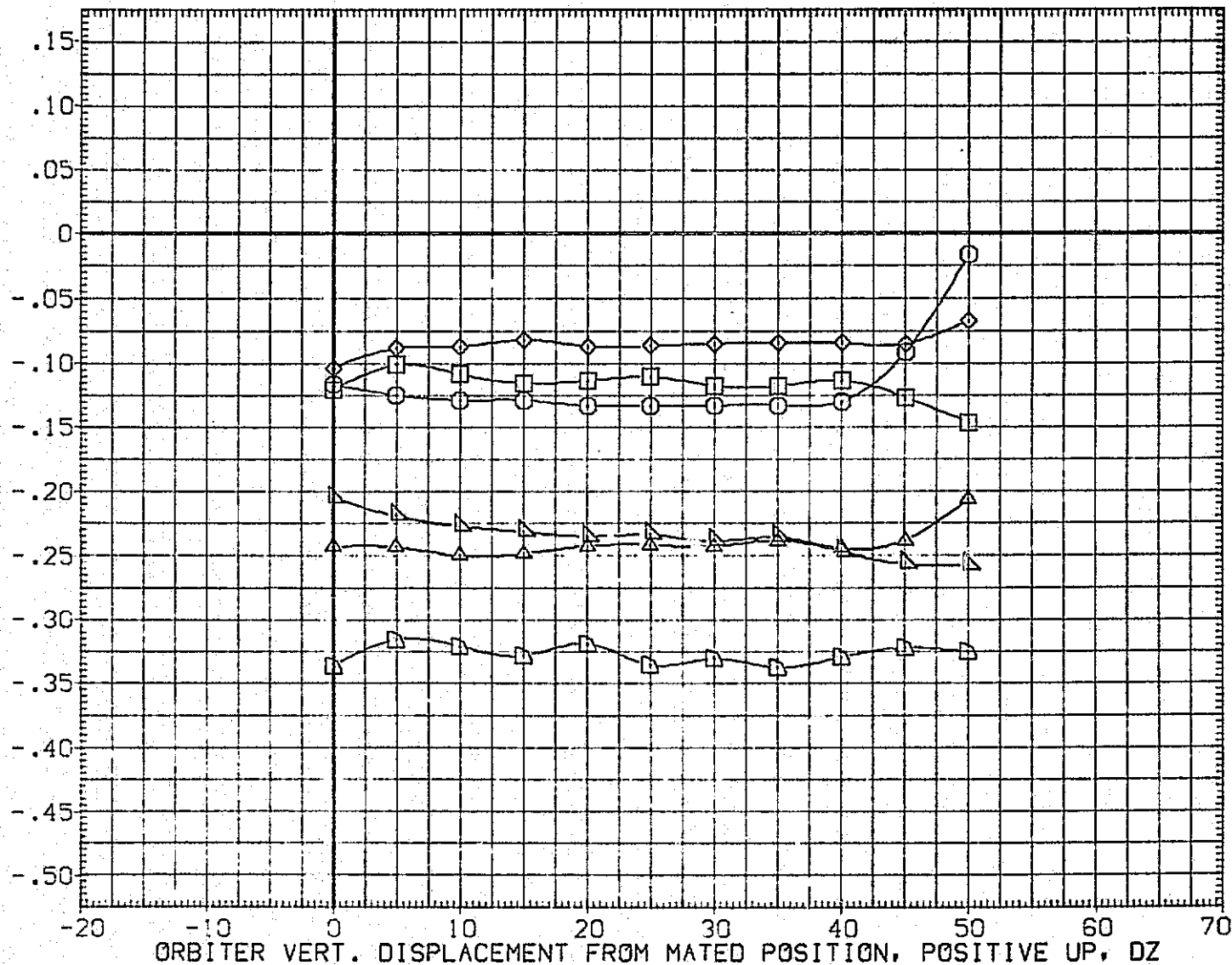


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(LFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF	5500.0000	50.FT.
(LFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF	327.7800	IN.
(LFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF	2349.0400	IN.
(LFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	XMRP	1339.9000	IN. XC
(LFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	YMRP	.0000	IN. YC
(LFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	ZMRP	190.7500	IN. ZC
					SCALE	.0125	

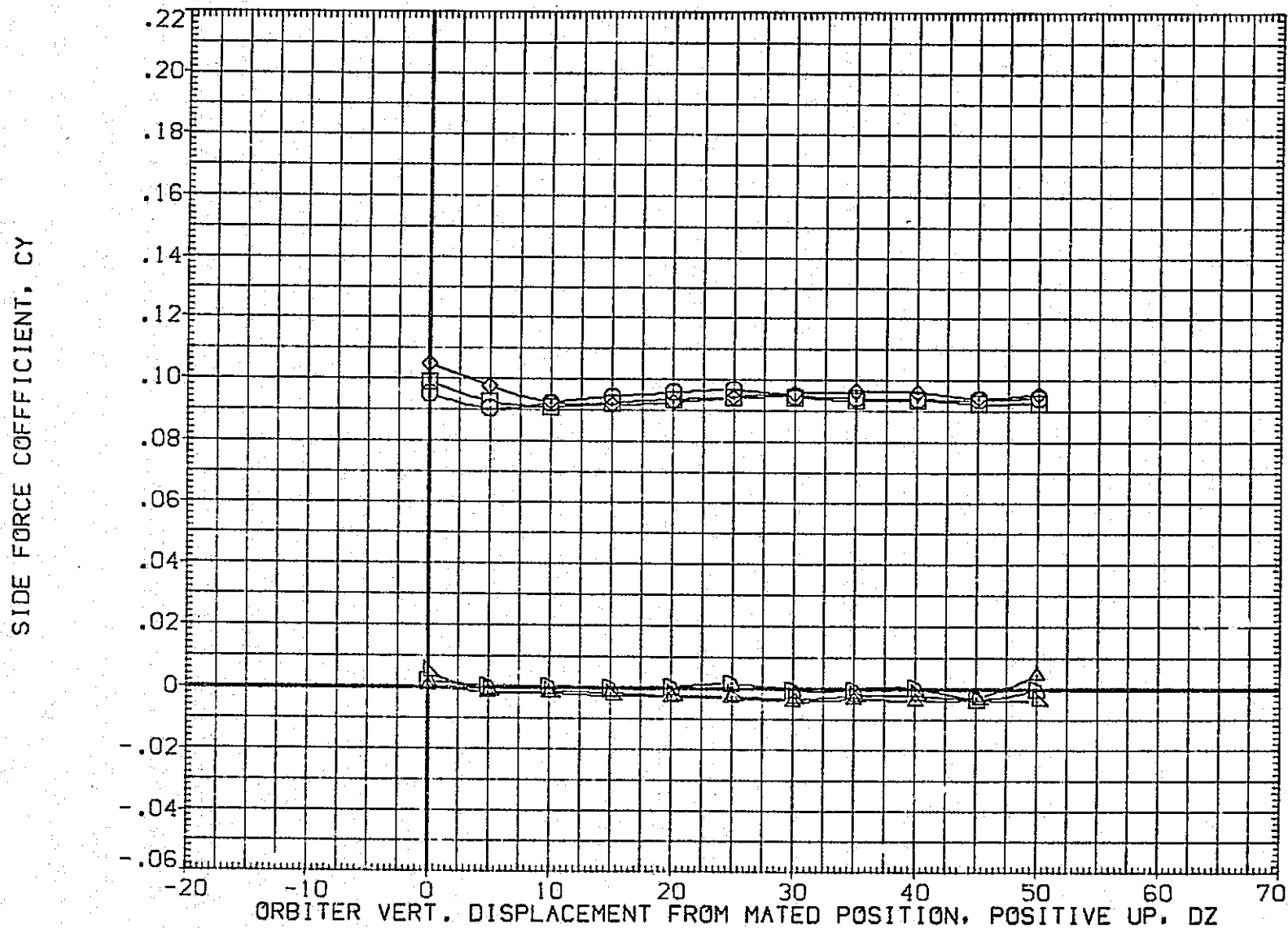


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(LFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF	5500.0000	SQ.FT.
(LFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF	327.7800	IN.
(LFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF	2348.0400	IN.
(LFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	XMRP	1339.9000	IN. XC
(LFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	YMRP	.0000	IN. YC
(LFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		.000	5.000	ZMRP	190.7500	IN. ZC
					SCALE	.0125	

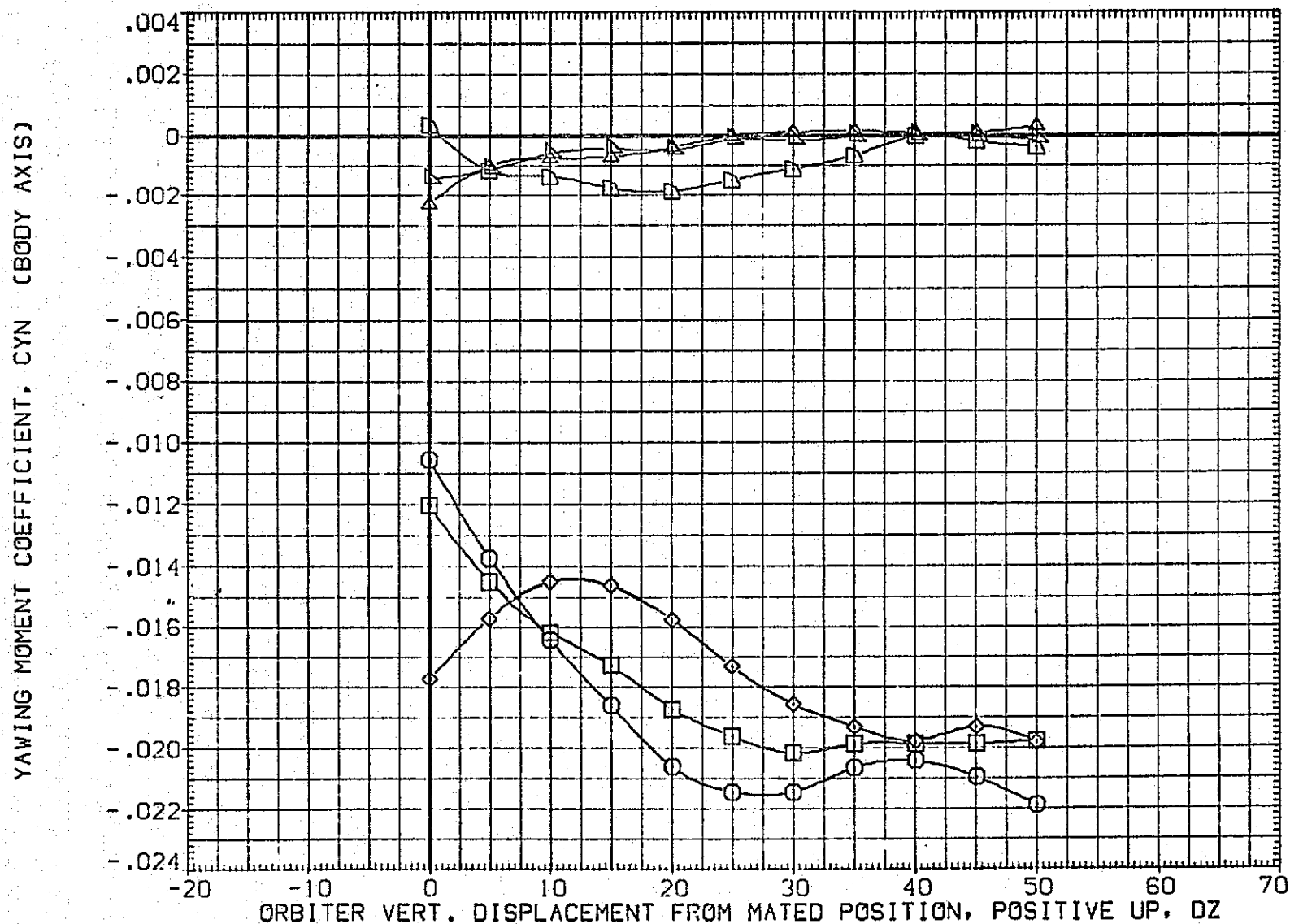


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(LFE101)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)
(LFE102)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)
(LFE103)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)
(LFE089)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)
(LFE090)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)
(LFE091)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)

BETA0	BETAC	ELEVON
	-5.000	5.000
	-5.000	5.000
	-5.000	5.000
	.000	5.000
	.000	5.000
	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

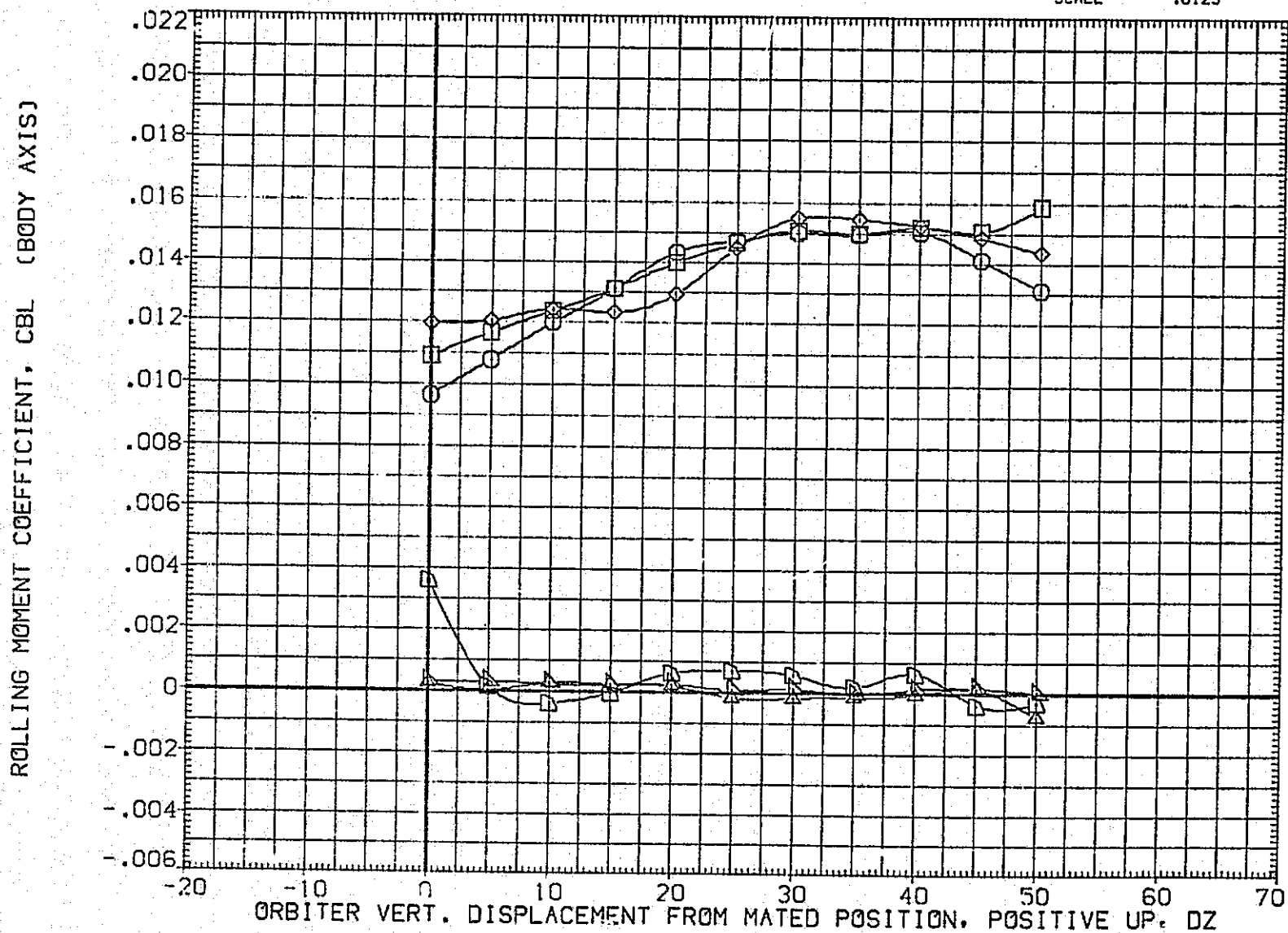


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(OFF101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(OFF102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(OFF103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

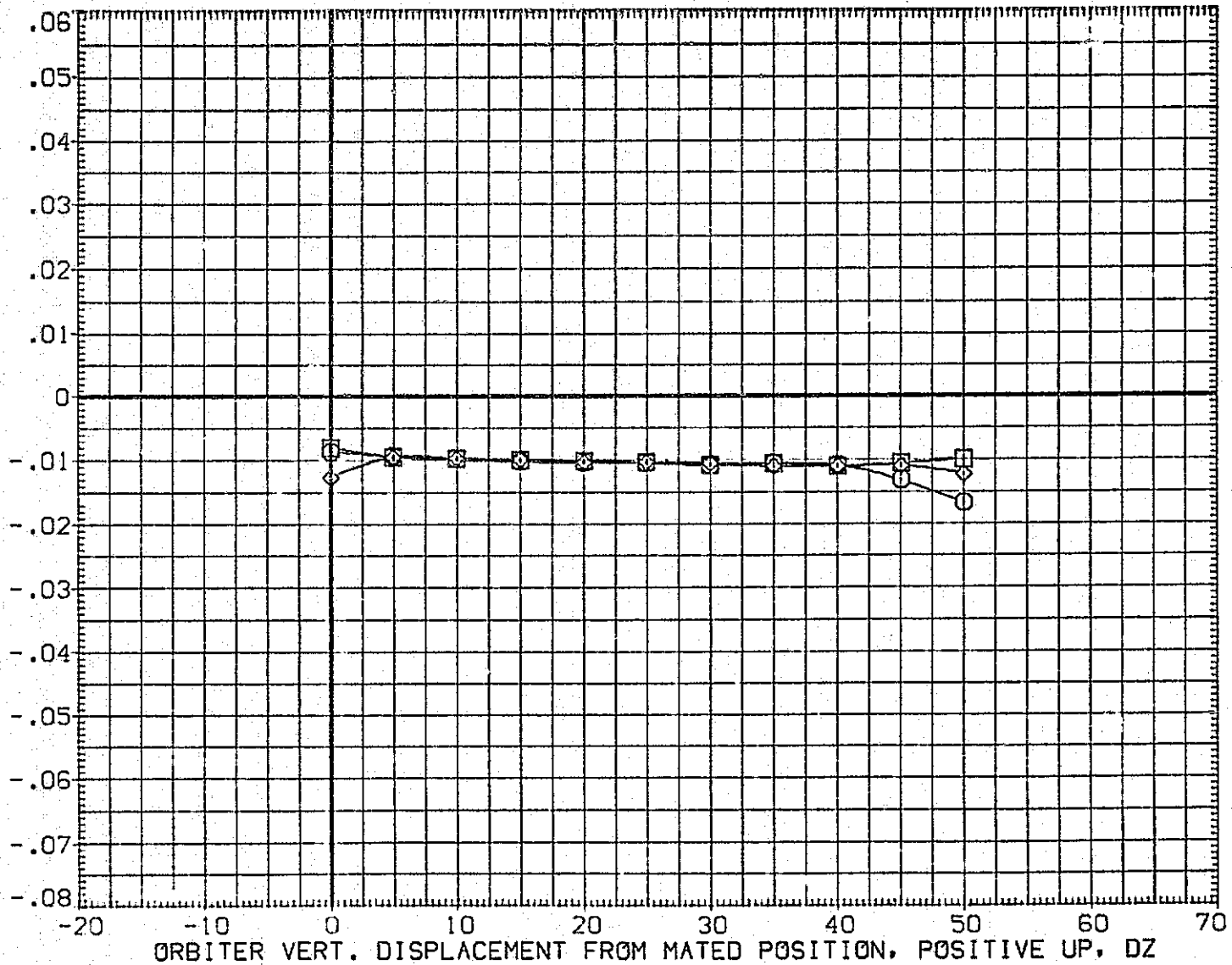


FIG. 237 LAT-DIRECT AE_{P0} VS $DELZ$, $\alpha_{747}=4.0$

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(OFFR101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	SREF 2690.0000 SQ.FT.
(OFFR102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	LREF 474.8100 IN.
(OFFR103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA. CYNB

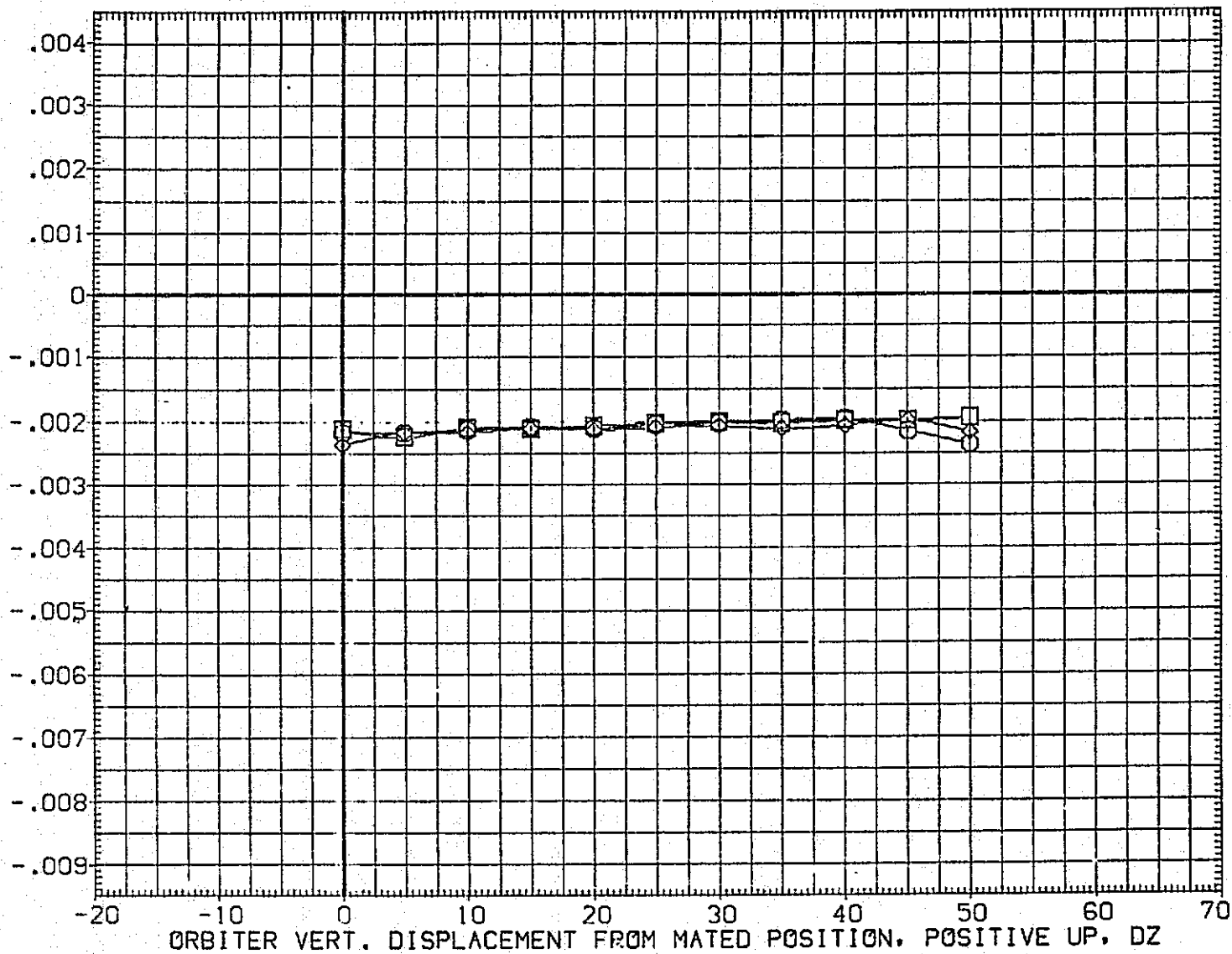


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA_{Z47}=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(OFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(OFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000
(OFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	-5.000		5.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

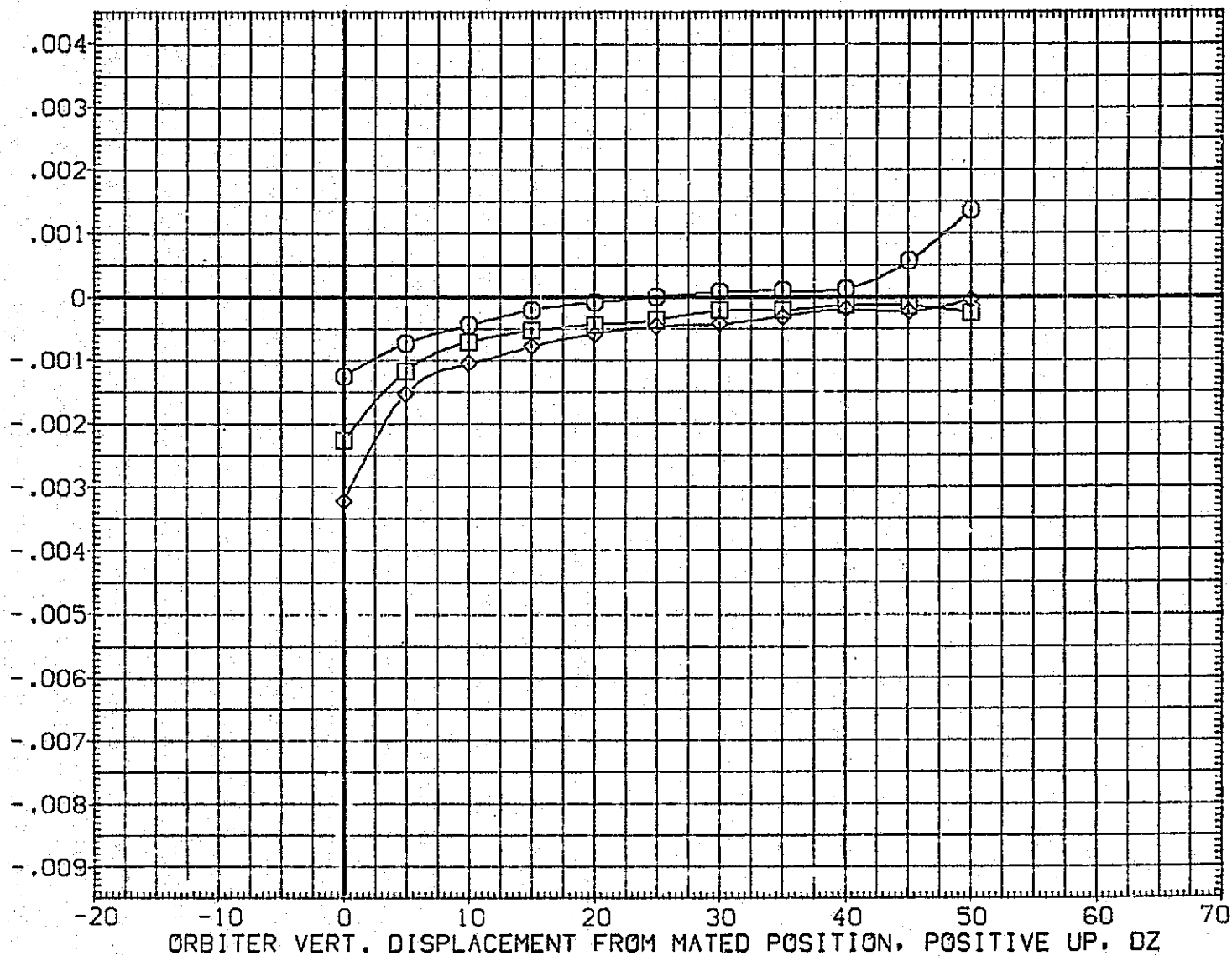


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(OFF101)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(OFF102)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(OFF103)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

BETA0	BETAC	ELEVON
-5.000		5.000
-5.000		5.000
-5.000		5.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA. DCPSB



FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PFE101) □ LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
 (PFE102) □ LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
 (PFE103) ◇ LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETAQ BETAC ELEVON
 -5.000 5.000
 -5.000 5.000
 -5.000 5.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

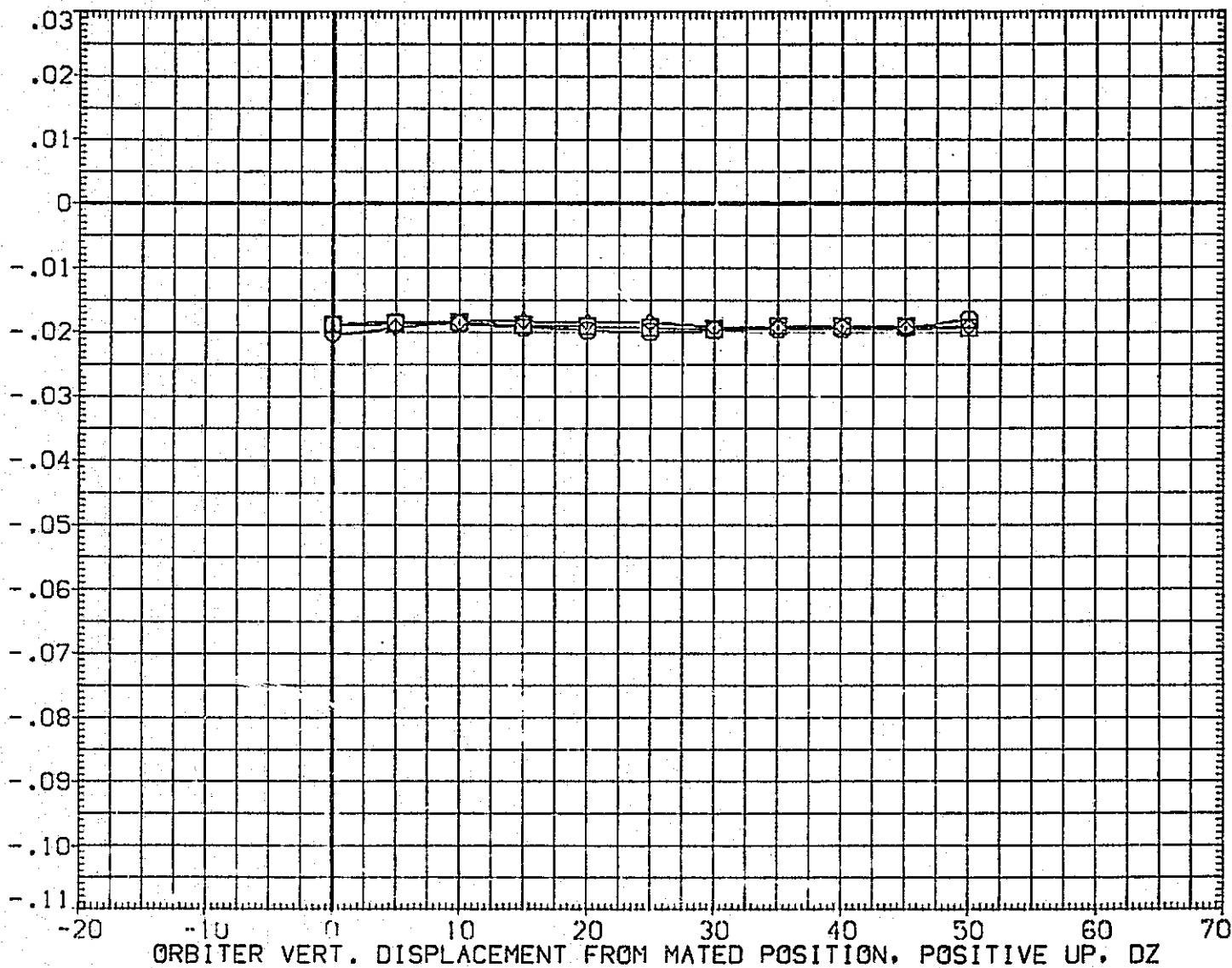


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION	
(PFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	SREF	5500.0000 SQ.FT.
(PFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	LREF	227.7800 IN.
(PFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)		-5.000	5.000	BREF	2348.0400 IN.
					XMRP	1339.9000 IN. XC
					YMRP	.0000 IN. YC
					ZMRP	190.7500 IN. ZC
					SCALE	.0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYND

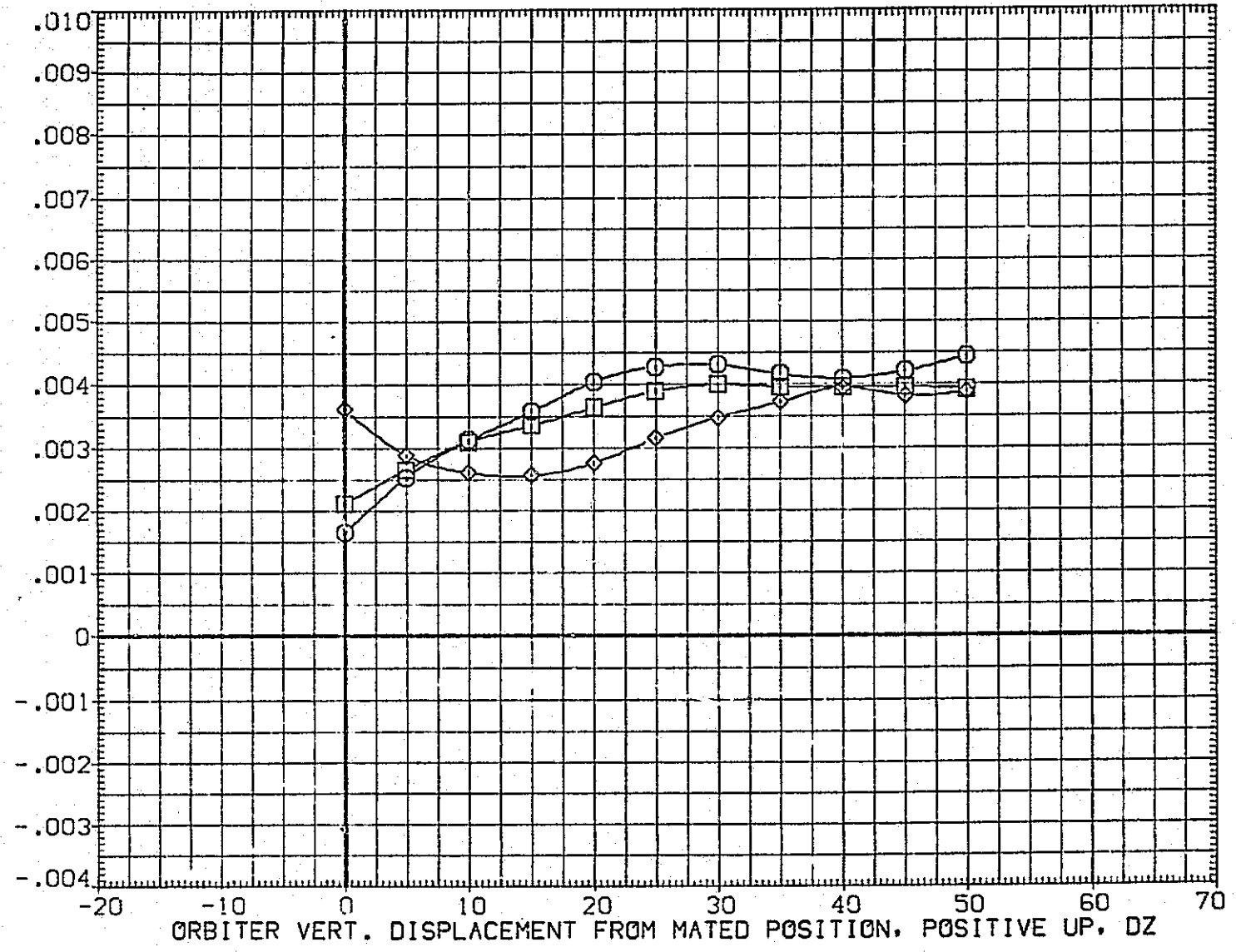


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(PFE101)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE102)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(PFE103)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA0	BETAC	ELEVON
	-5.000	5.000
	-5.000	5.000
	-5.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9600	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

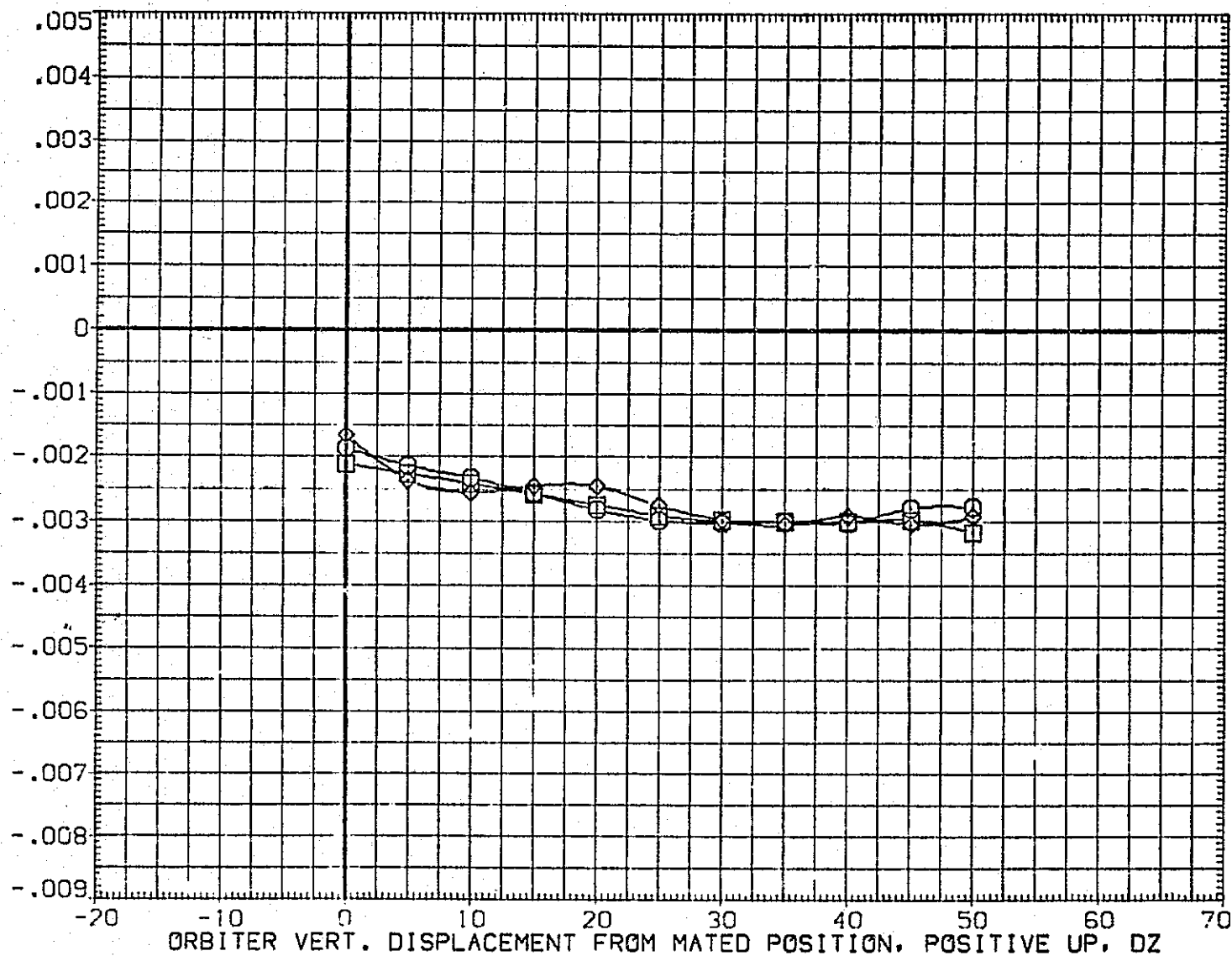


FIG. 237 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(MFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

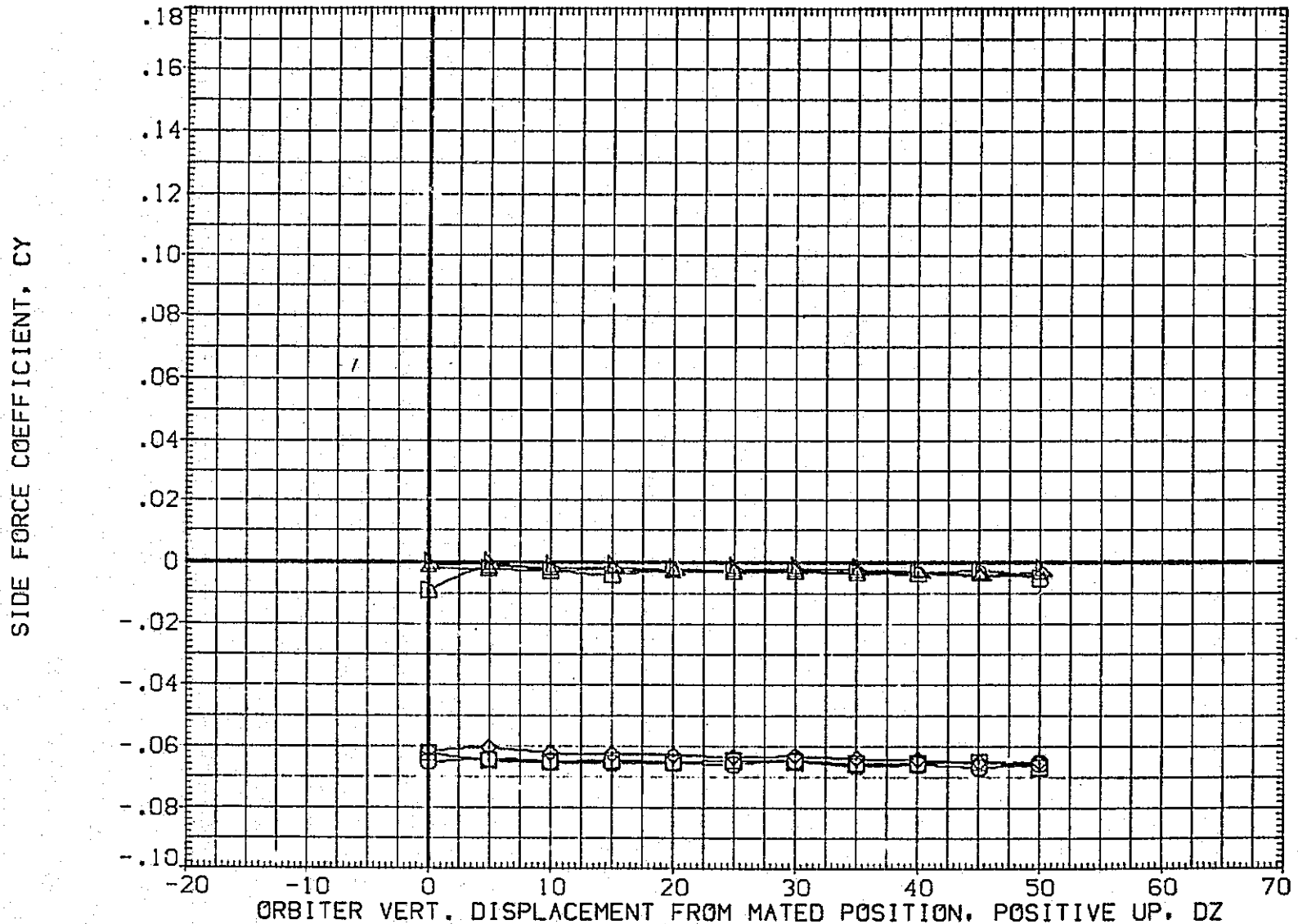


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA ₀	BETA _C	ELEVON	REFERENCE INFORMATION
(MFE035)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE036)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE037)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE030)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE032)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE034)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

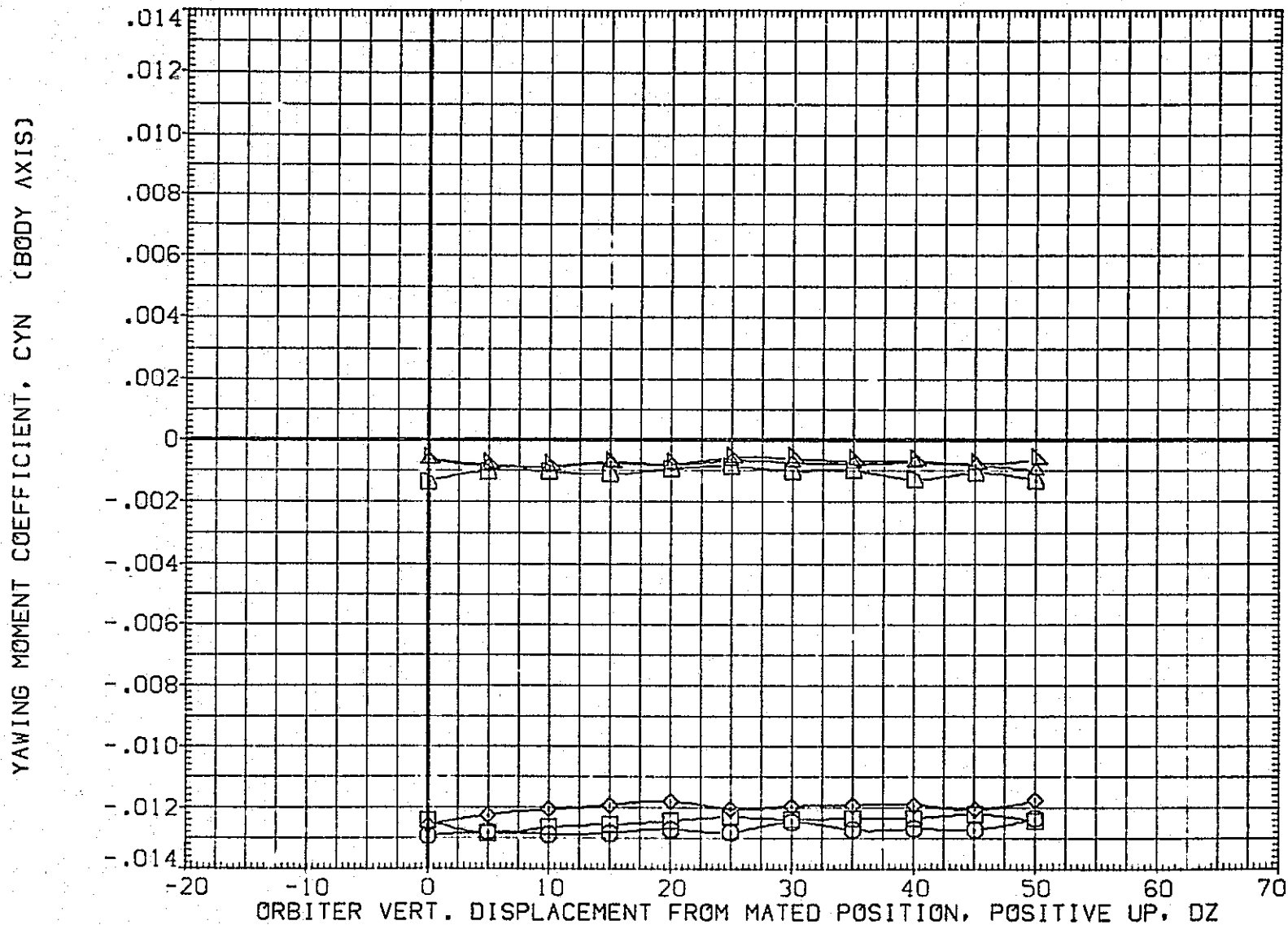


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION		
(MFE035)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SQ.FT.
(MFE036)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE037)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE030)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. X0
(MFE032)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. Y0
(MFE034)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

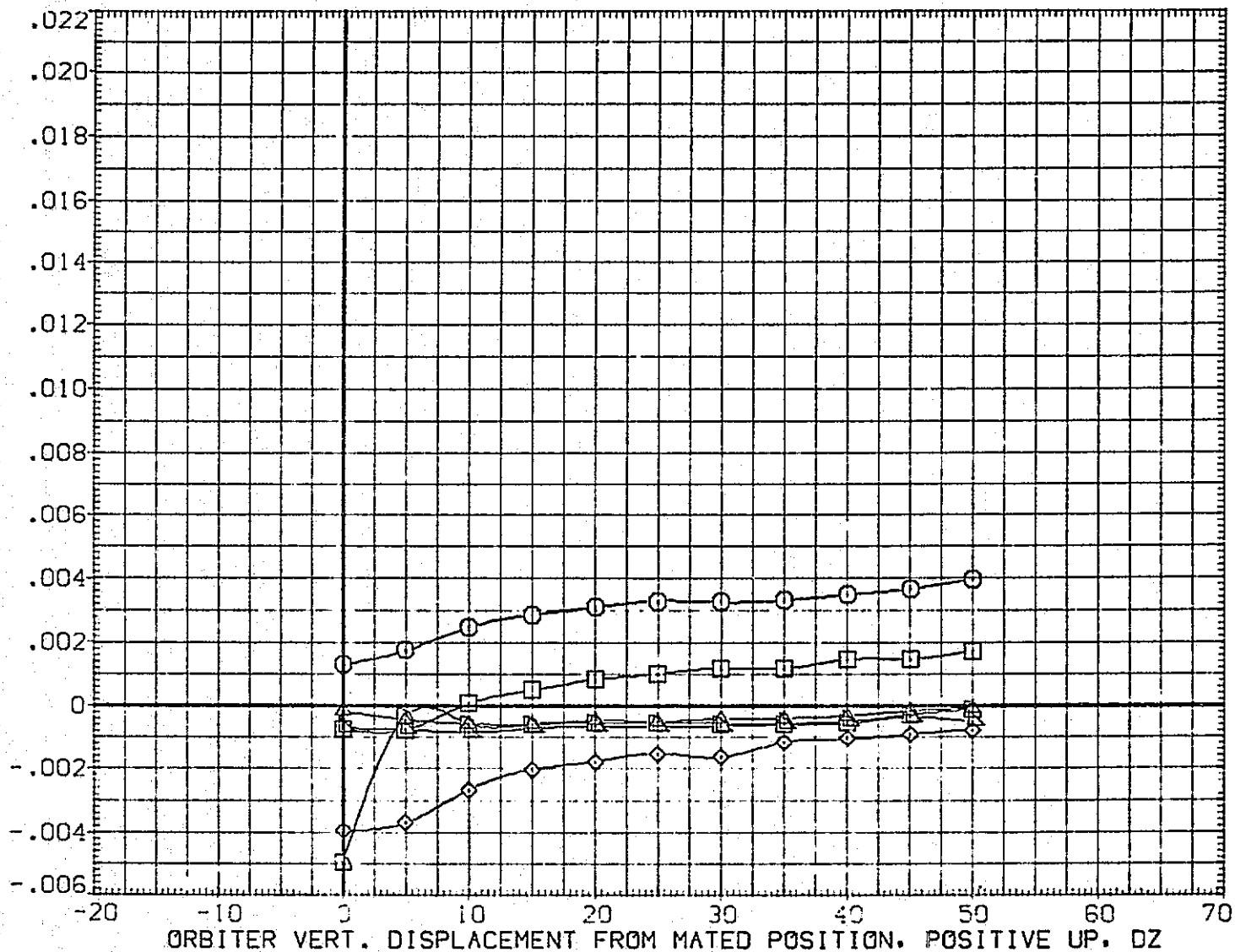


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA _A	BETA _C	ELEV _{IN}	REFERENCE INFORMATION
(MFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ORBITER STRUT LEFT HAND SIDE PRESSURE COEFFICIENT, CPSI

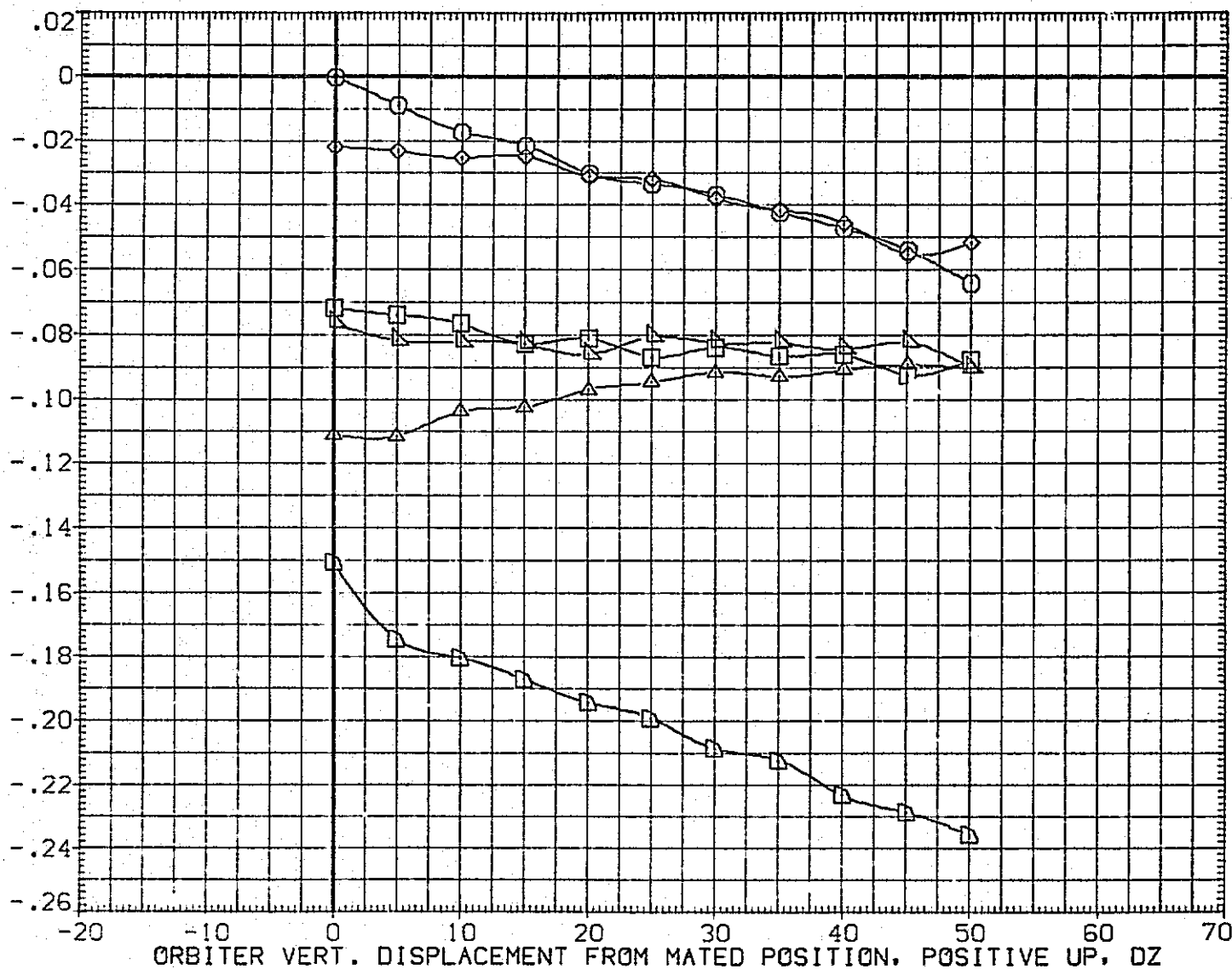


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA D	BETA C	ELFVON	REFERENCE INFORMATION		
(MFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SO.FT.
(MFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE030)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. X0
(MFE032)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. Y0
(MFE034)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
					SCALE	.0125	

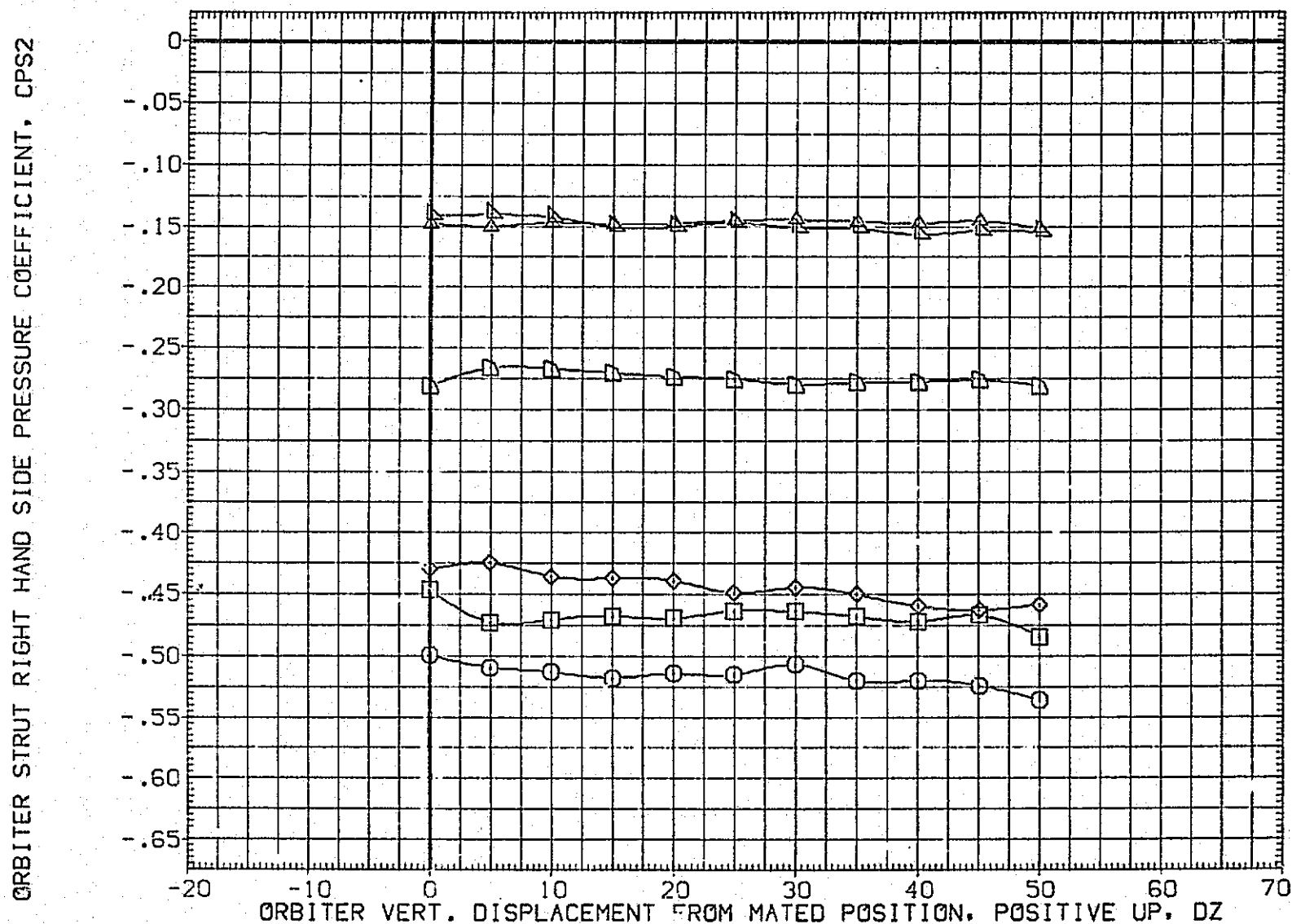


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(NFED35)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF 5500.0000 SQ.FT.
(NFED36)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF 327.7800 IN.
(NFED37)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF 2348.0400 IN.
(NFED30)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(NFED32)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(NFED34)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

SIDE FORCE COEFFICIENT, CY

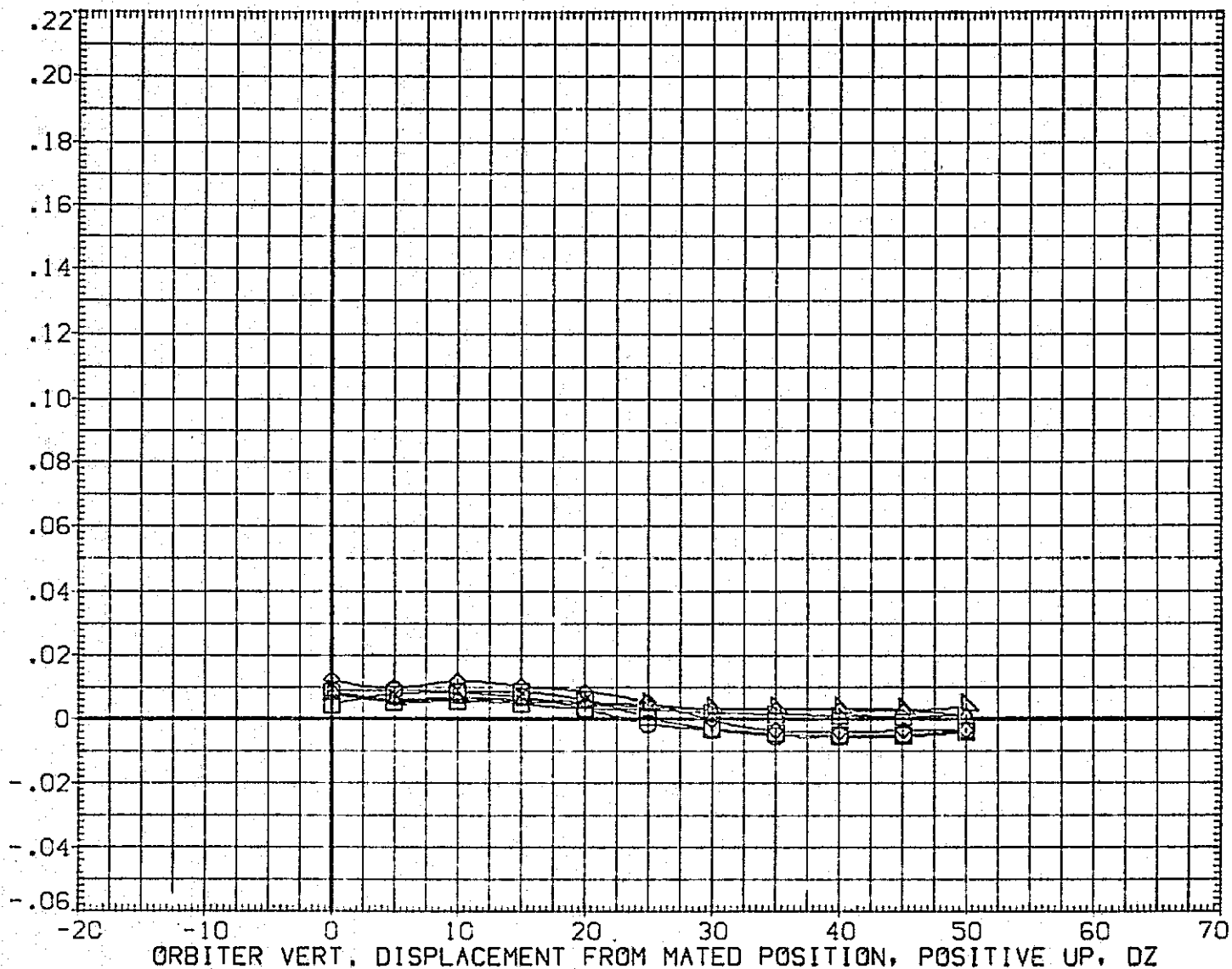


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA _D	BETA _C	ELEVON	REFERENCE INFORMATION		
(NFE035)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.0000	50. FT.
(NFE036)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(NFE037)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2348.0400	IN.
(NFE030)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP	1339.9000	IN. XC
(NFE032)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP	.0000	IN. YC
(NFE034)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP	190.7500	IN. ZC
						SCALE	.0125	

YAWING MOMENT COEFFICIENT, C_{YN} (BODY AXIS)

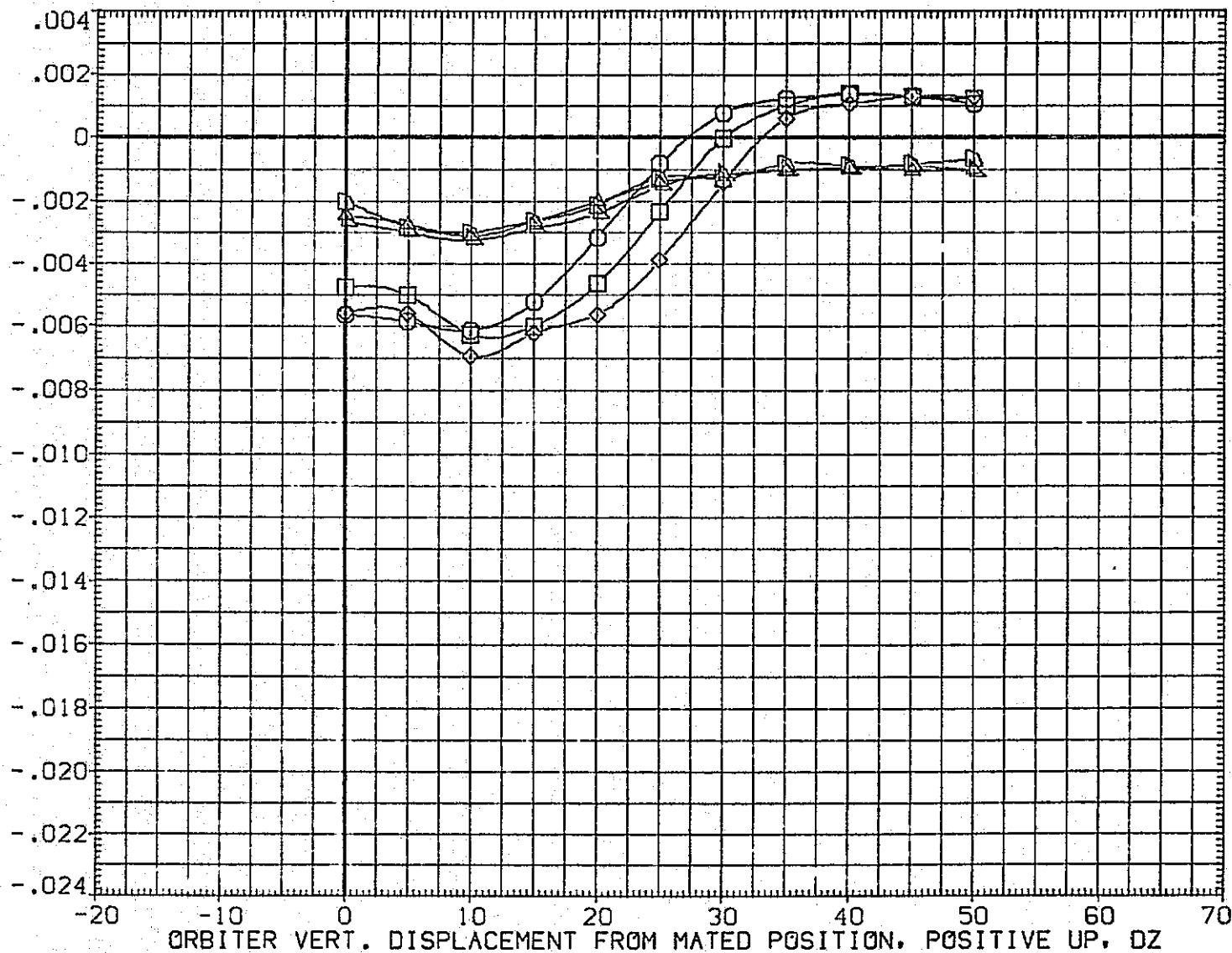


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

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DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(NFE035)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.0000	SQ.FT.
(NFE036)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(NFE037)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2348.0400	IN.
(NFE030)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP	1339.9000	IN. XC
(NFE032)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP	.0000	IN. YC
(NFE034)	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP	190.7500	IN. ZC
						SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

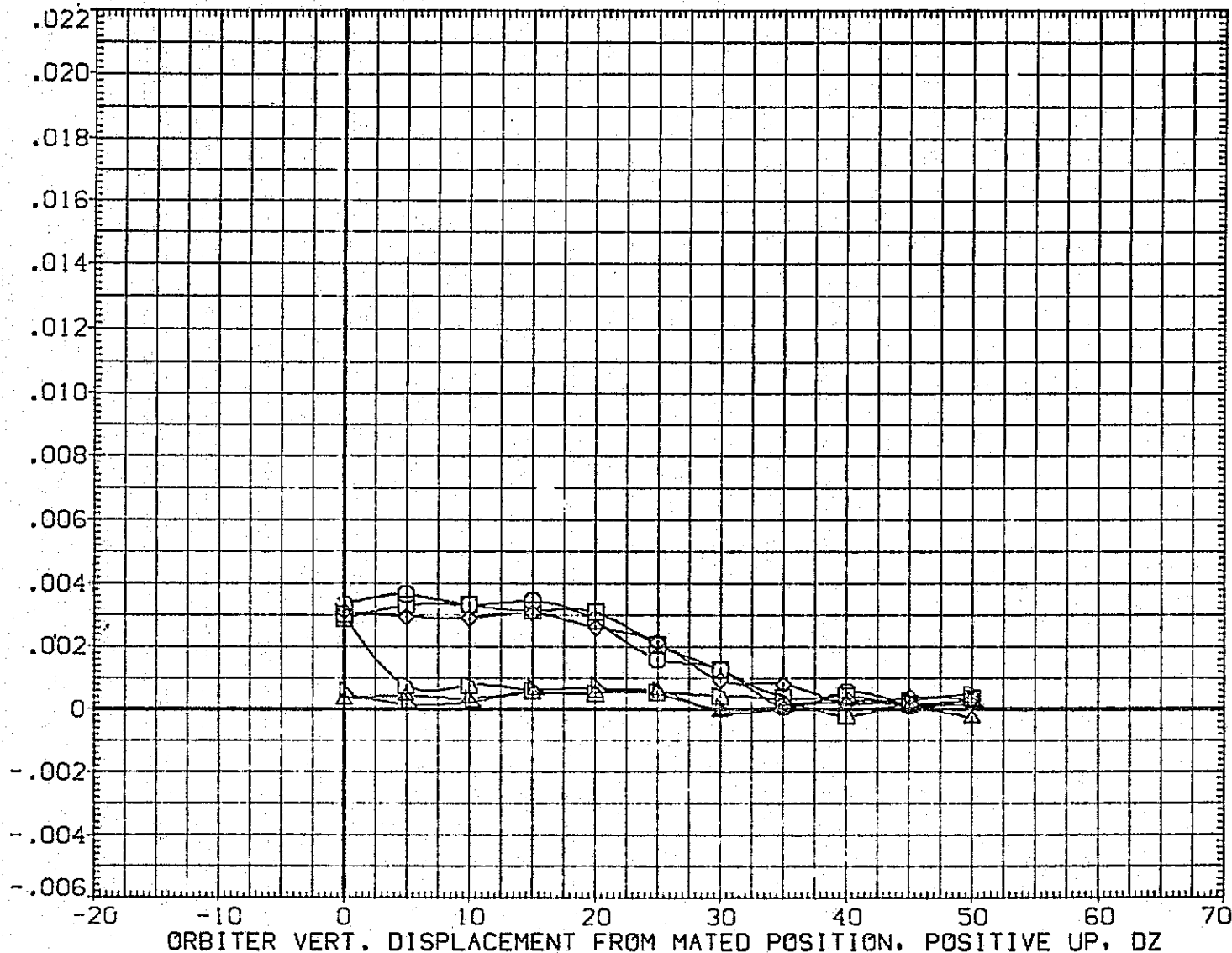


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(QFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SQ.FT.
(QFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(QFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
					XMRP	1109.0000	IN. X0
					YMRP	.0000	IN. Y0
					ZMRP	375.0000	IN. Z0
					SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

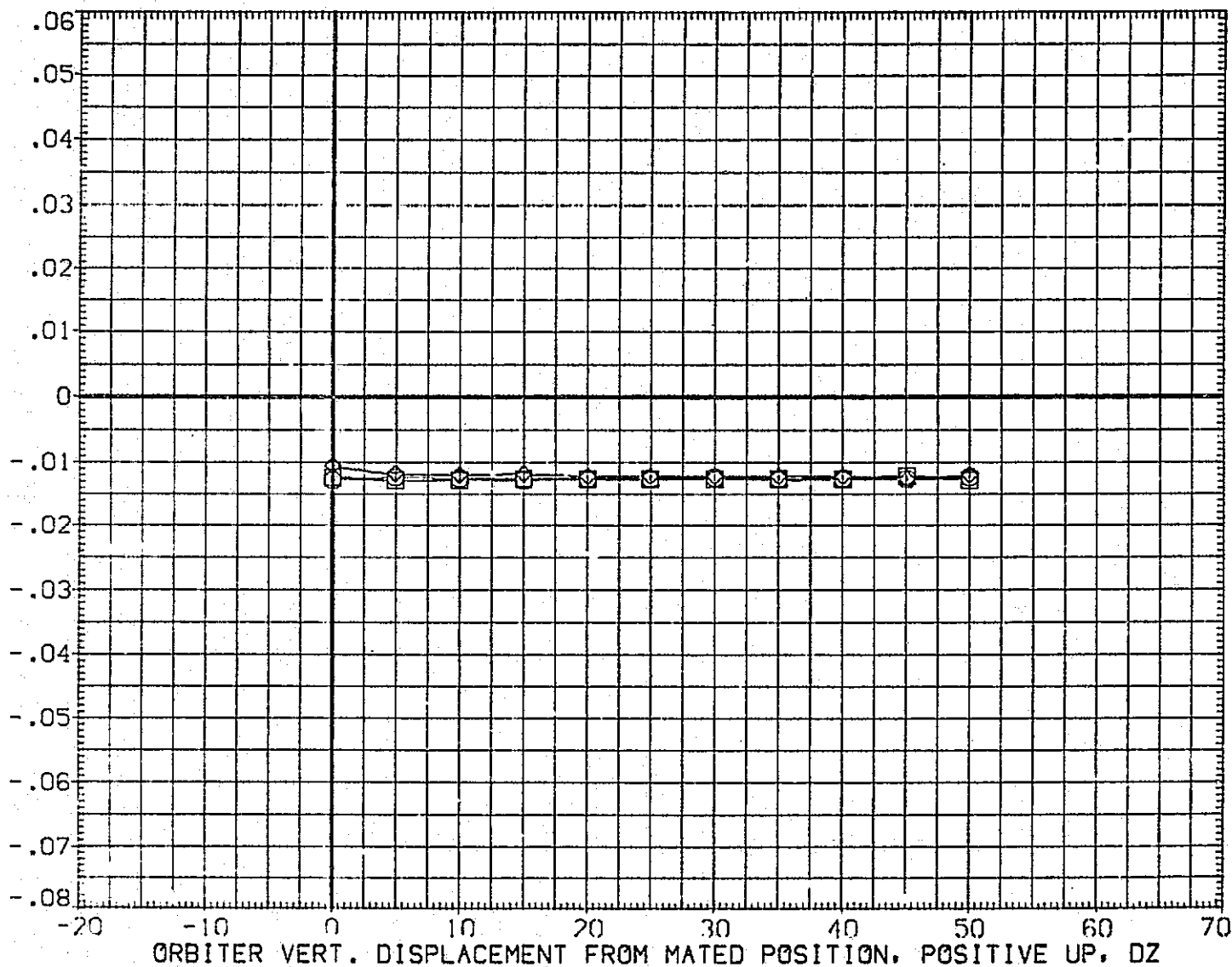


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(QFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(QFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(QFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

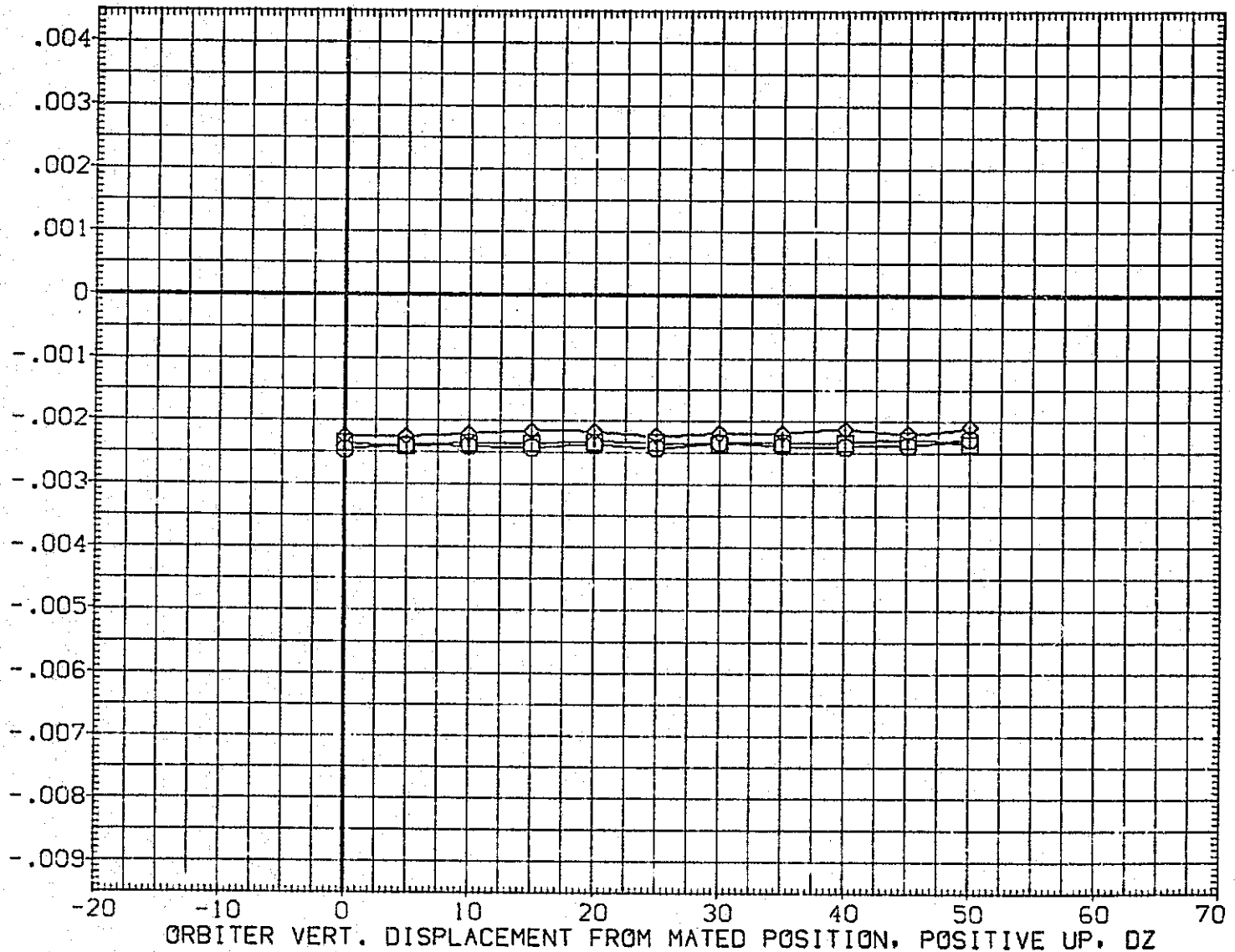


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0
 (A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAQ	BETAC	ELEVON
(QFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(QFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(QFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

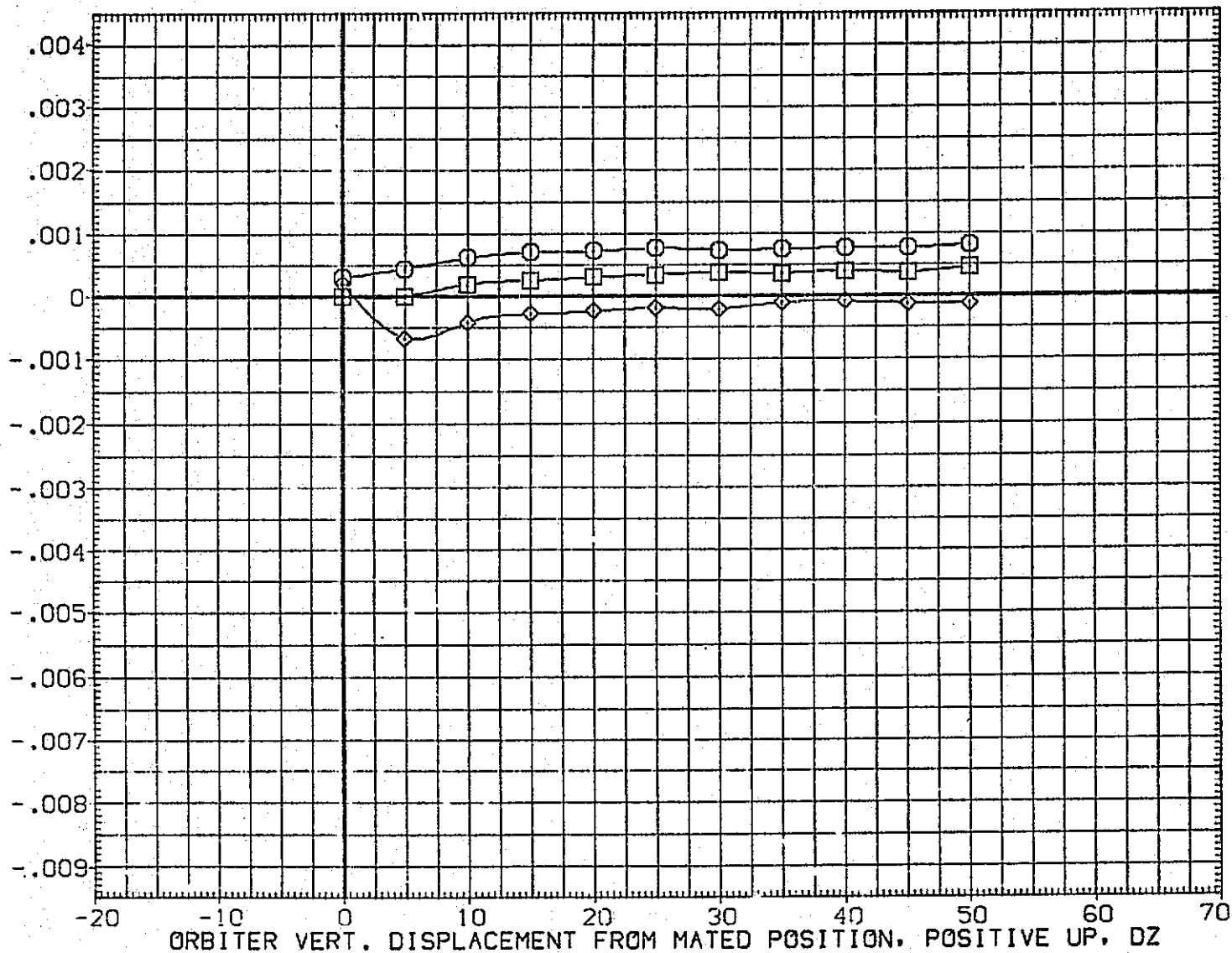


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(DFE035) □ LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
 (DFEC36) □ LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
 (DFE037) ◇ LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

BETA0 BETAC ELEVON
 5.000 .000 5.000
 5.000 .000 5.000
 5.000 .000 5.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA, DCPSB

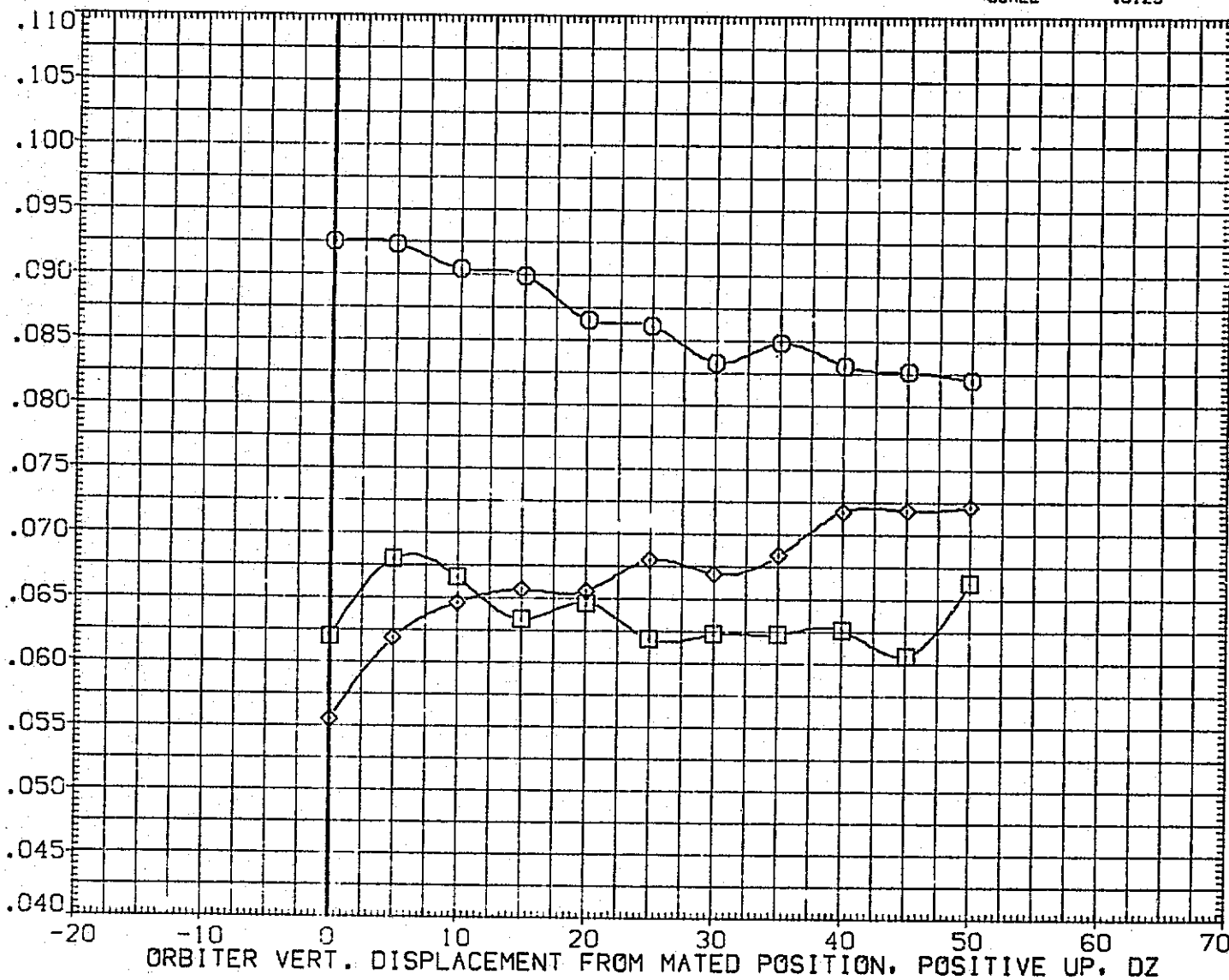


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON
(TFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000

BETA0	BETA C	ELEVON
5.000	.000	5.000
5.000	.000	5.000
5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

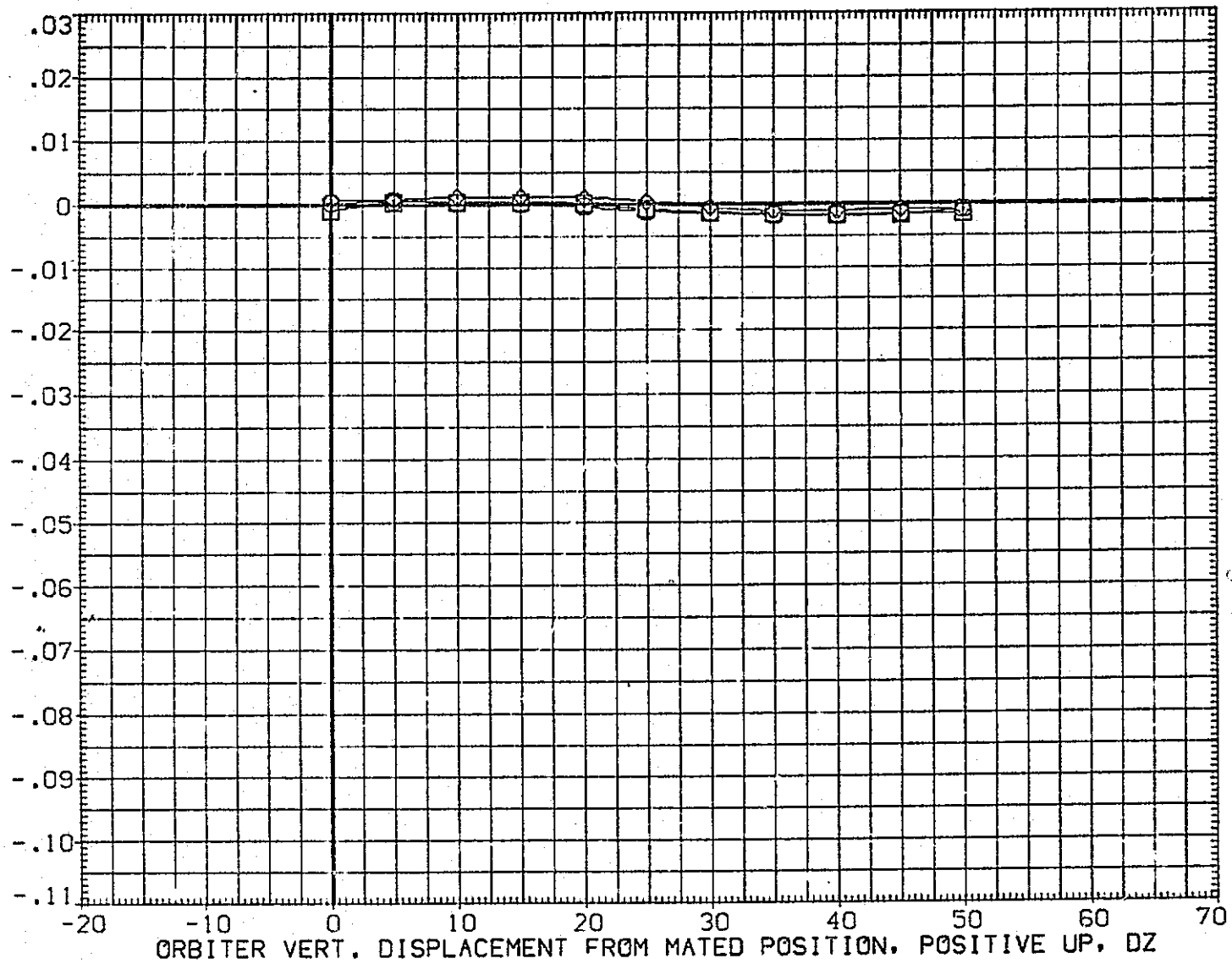


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(TFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

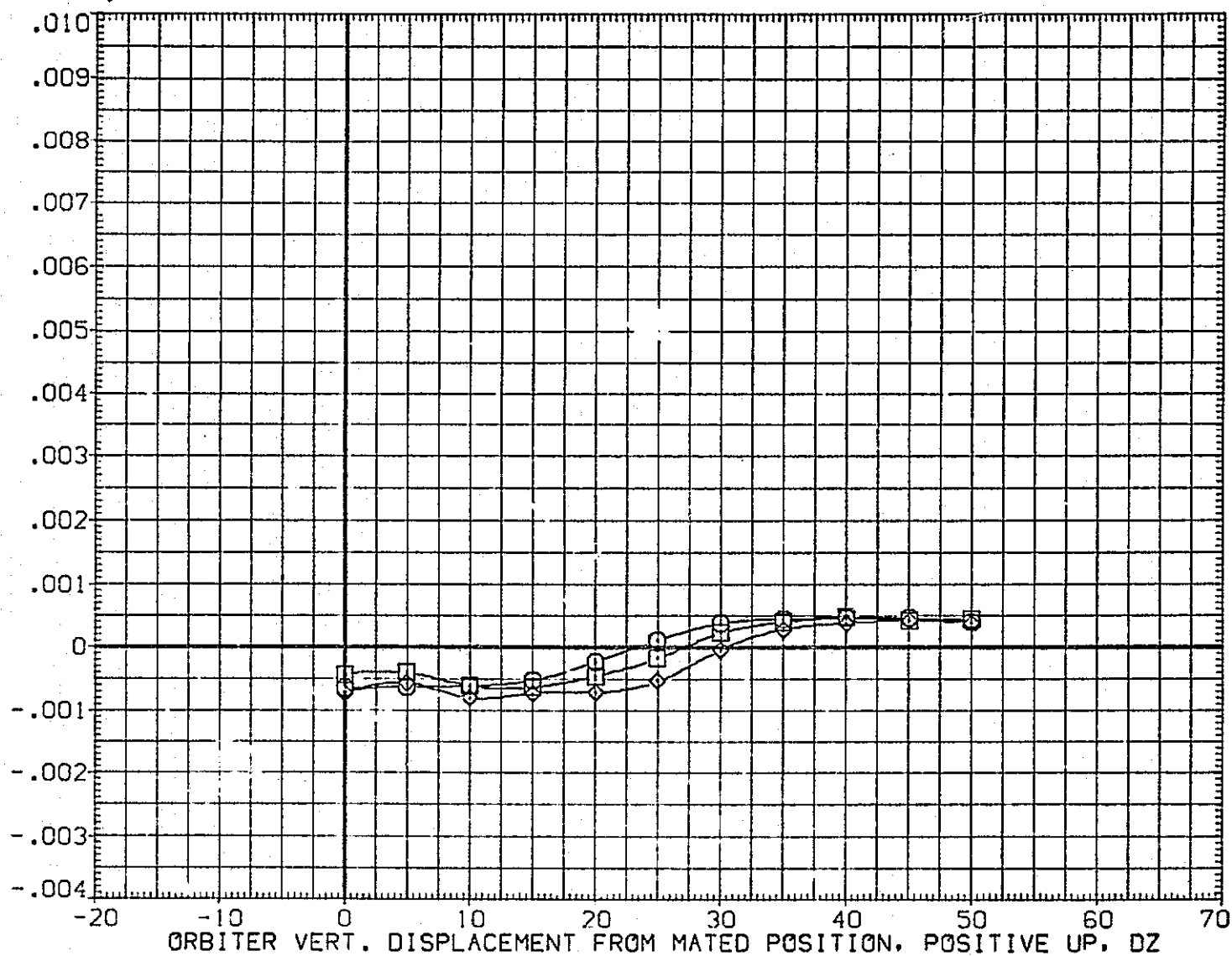


FIG. 238 LAJ-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(TFE035)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(TFE036)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
(TFE037)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA0	BETAC	ELEVON
5.000	.000	5.000
5.000	.000	5.000
5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

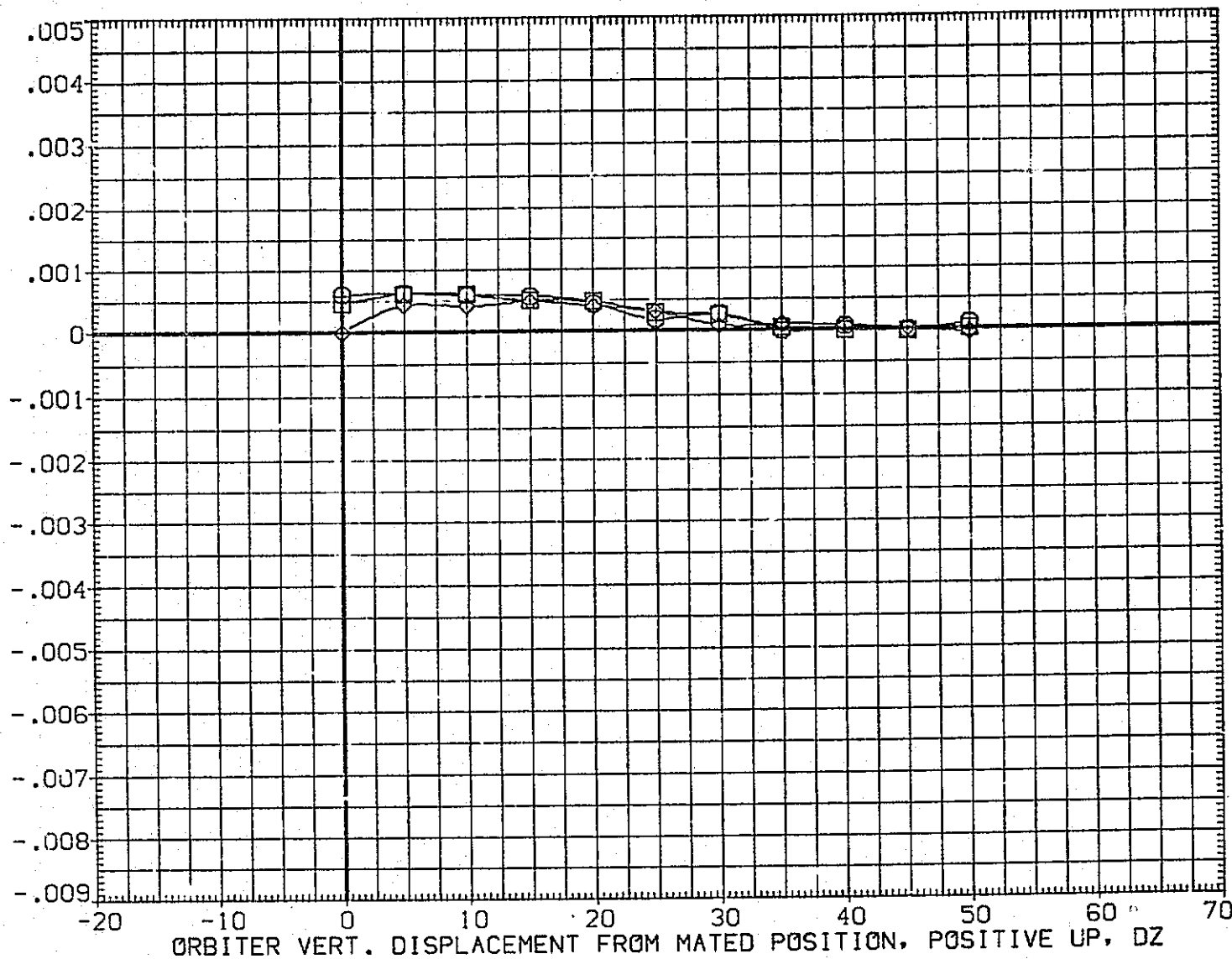


FIG. 238 LAT-DIRECT AERO VS DELZ, ALPHA747=0.0, DELBETA=5.0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(MFE048)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	50. FT.
(MFE049)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE050)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE045)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	XM RP	1109.0000	IN. X0
(MFE046)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	YM RP	.0000	IN. Y0
(MFE047)	LTV44-559(CA26)	747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	ZM RP	375.0000	IN. Z0
						SCALE	.0125	

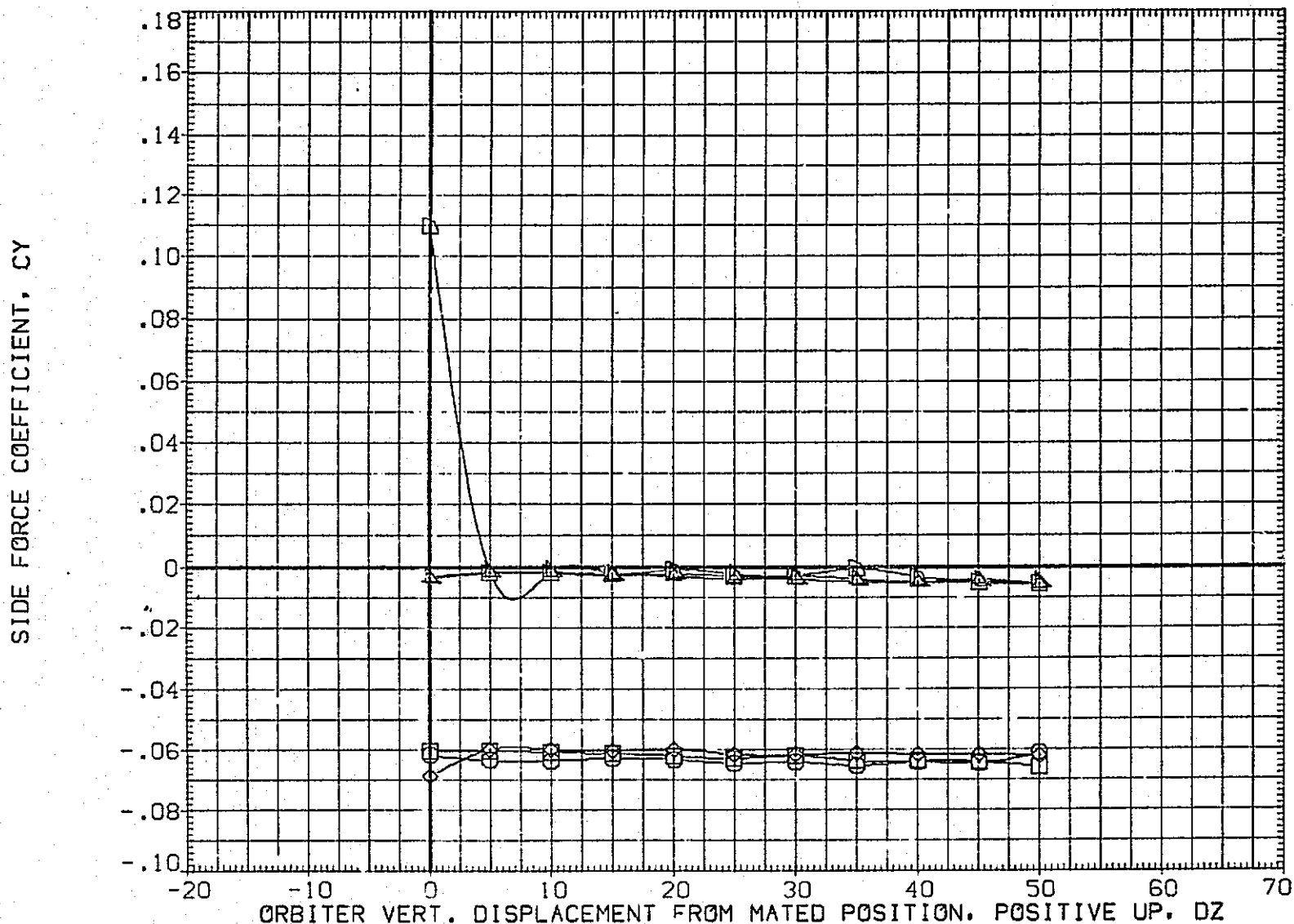


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(MFE048)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SQ.FT.
(MFE049)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE050)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE045)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. X0
(MFE046)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. Y0
(MFE047)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
					SCALE	.0125	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

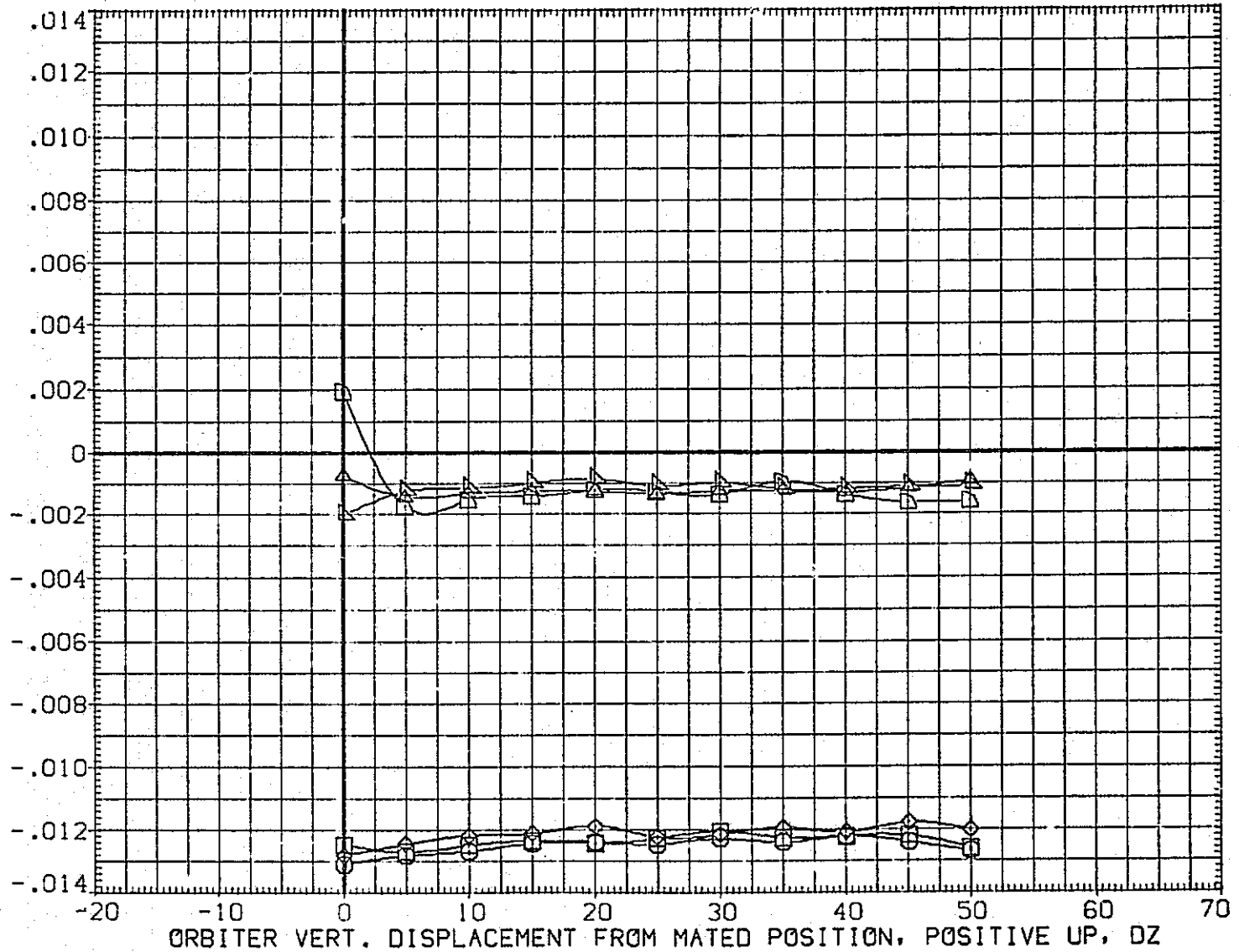


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(MFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFLJ47)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

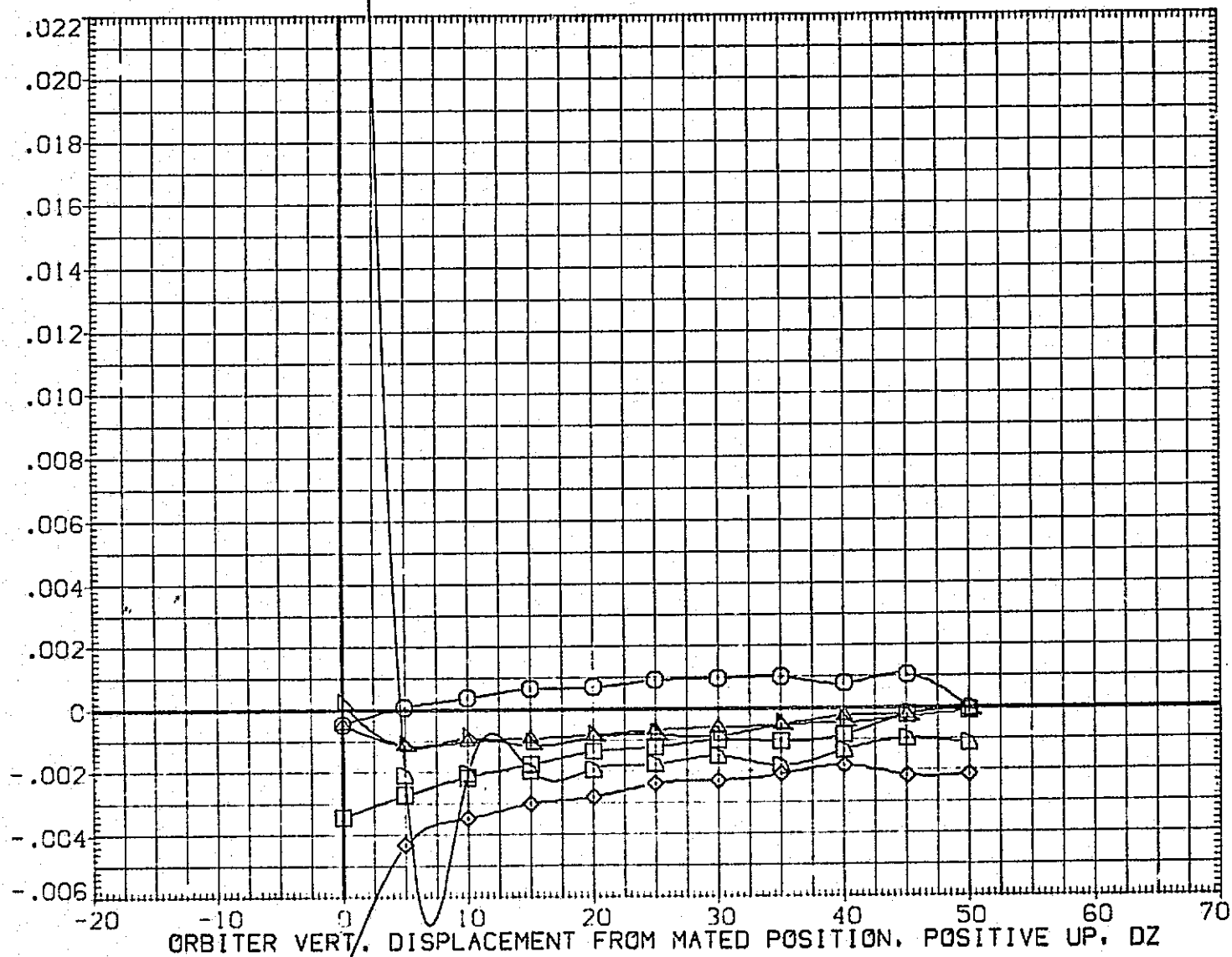


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION		
(MFE048)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	50.FT.
(MFE049)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE050)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE045)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0200	IN. X0
(MFE046)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	YMRP	.0003	IN. Y0
(MFE047)	LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
					SCALE	.0125	

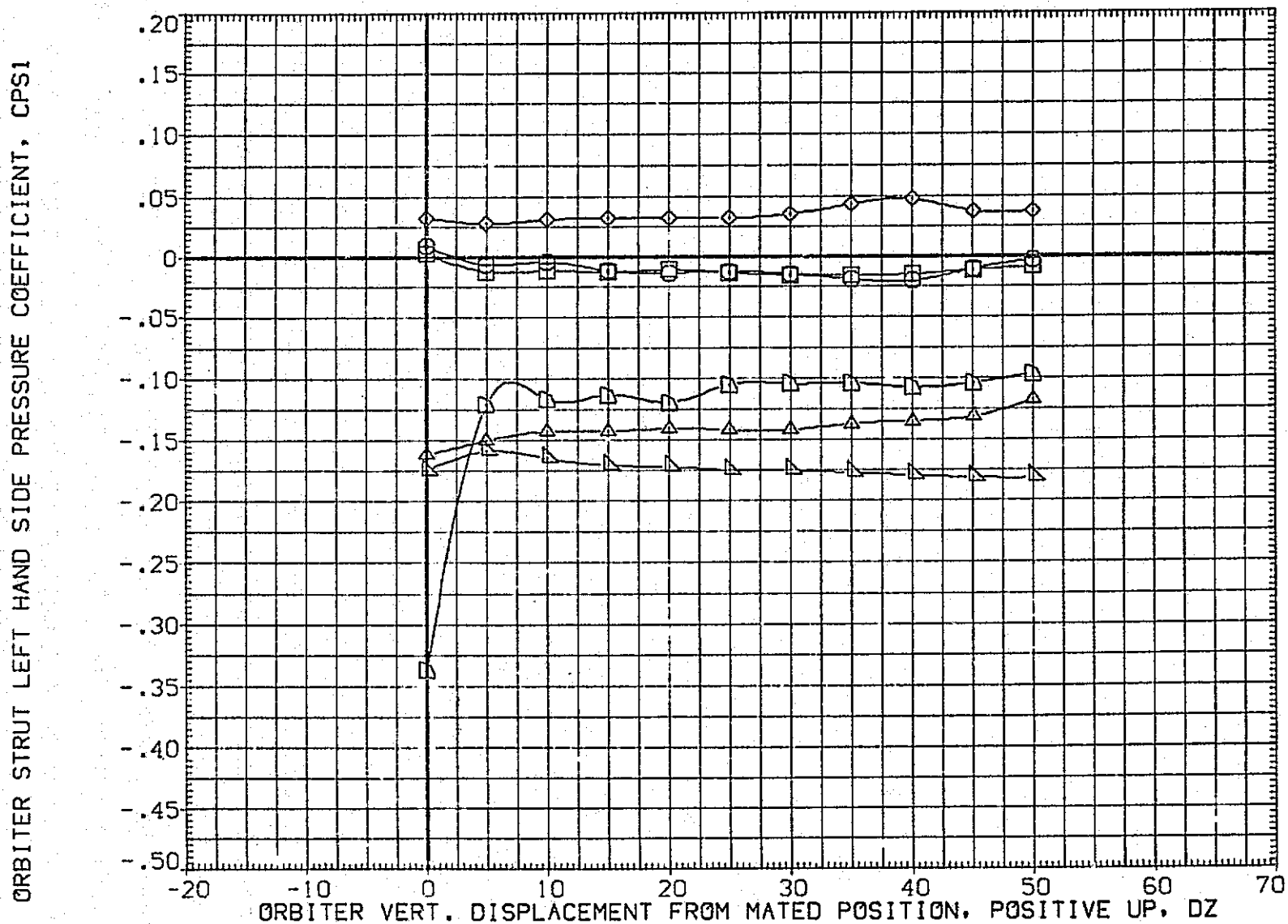


FIG. 239 LAT=DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(MFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

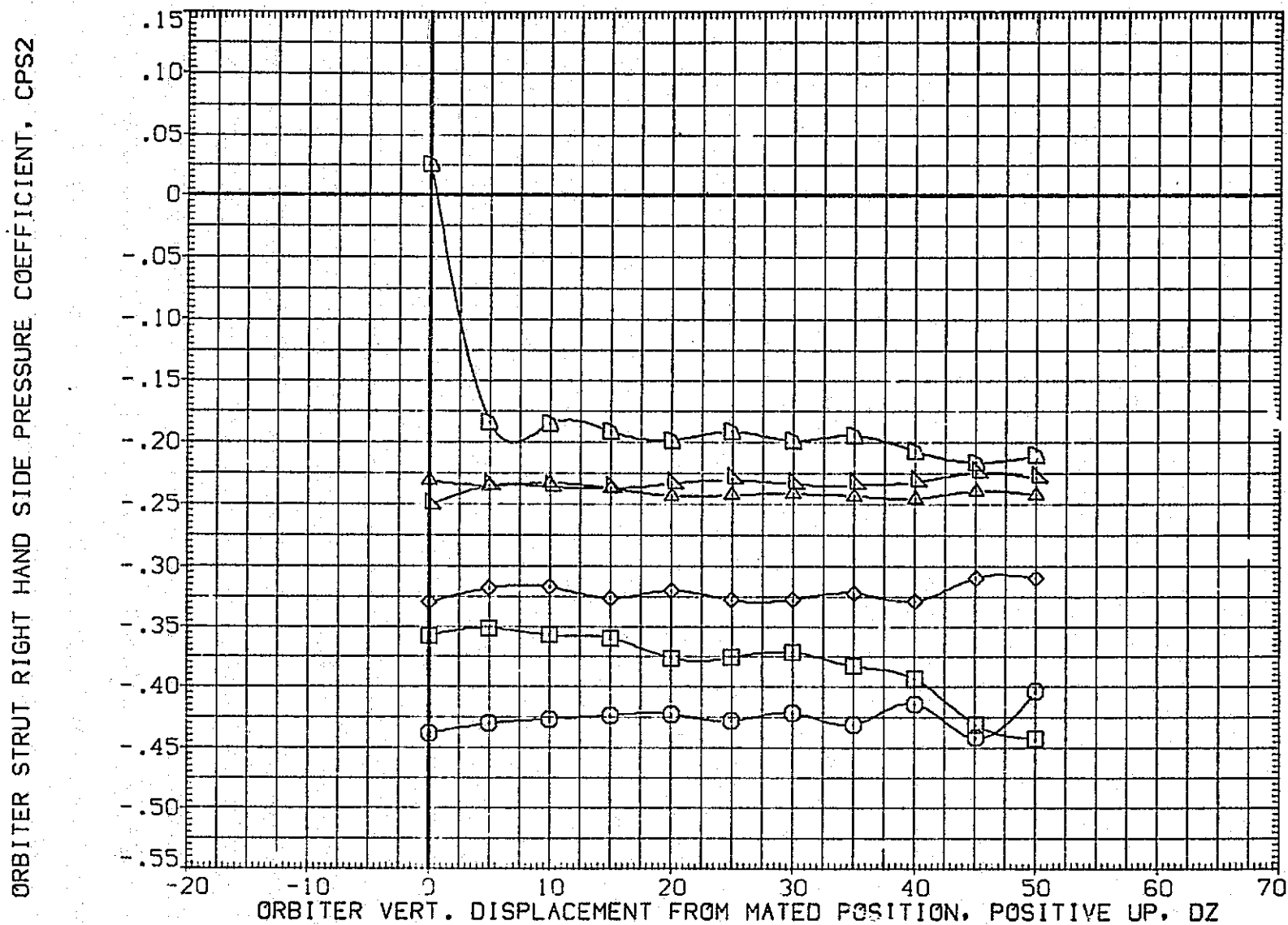


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(NFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.0000	50.FT.
(NFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(NFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2348.0400	IN.
(NFE045)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP	1339.9000	IN. XC
(NFE046)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP	.0000	IN. YC
(NFE047)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP	190.7500	IN. ZC
					SCALE	.0125	

SIDE FORCE COEFFICIENT, CY

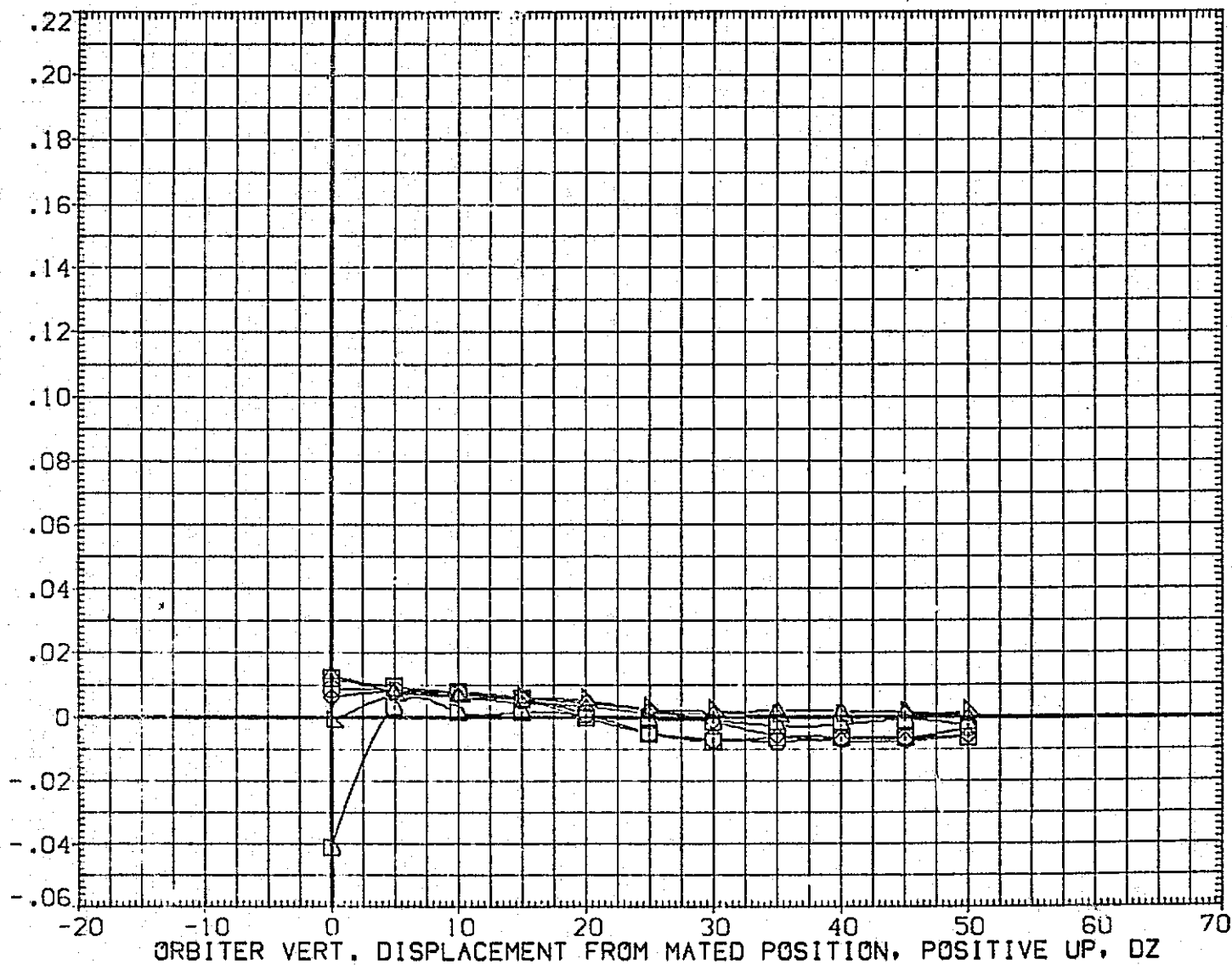


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(NFEO48)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF 5500.0000 SQ.FT.
(NFEO49)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF 327.7800 IN.
(NFEO50)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF 2348.0400 IN.
(NFEO45)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(NFEO46)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(NFEO47)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

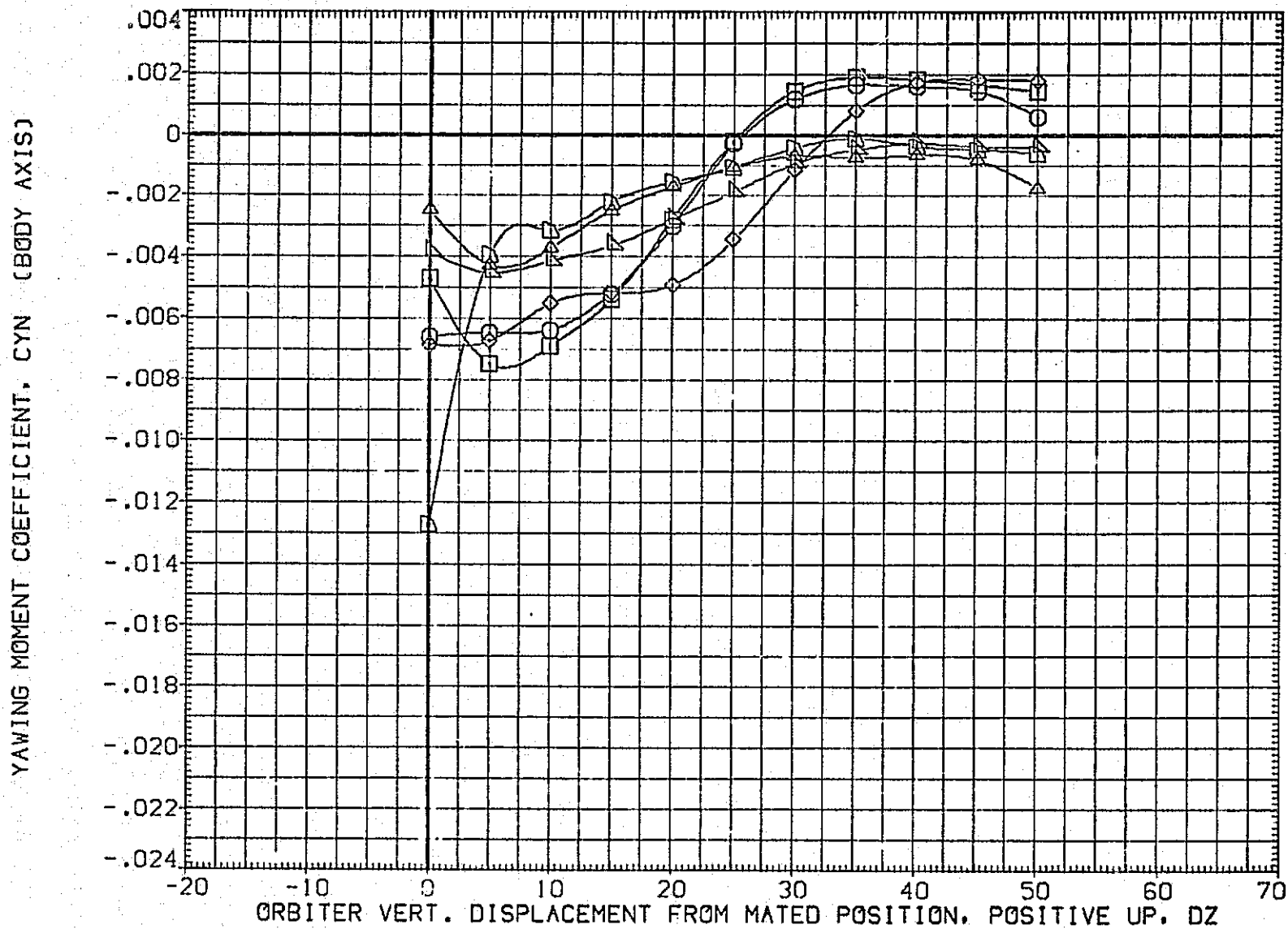


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	BETAQ	BETAC	ELEVON	REFERENCE INFORMATION		
(NFE048)	□	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.0000	SQ.FT.
(NFE049)	○	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(NFE050)	◇	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2348.0400	IN.
(NFE045)	△	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP	1339.9000	IN. XC
(NFE046)	▽	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP	.0000	IN. YC
(NFE047)	◇	LTV44-559(CA26)	747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP	190.7500	IN. ZC
							SCALE	.0125	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

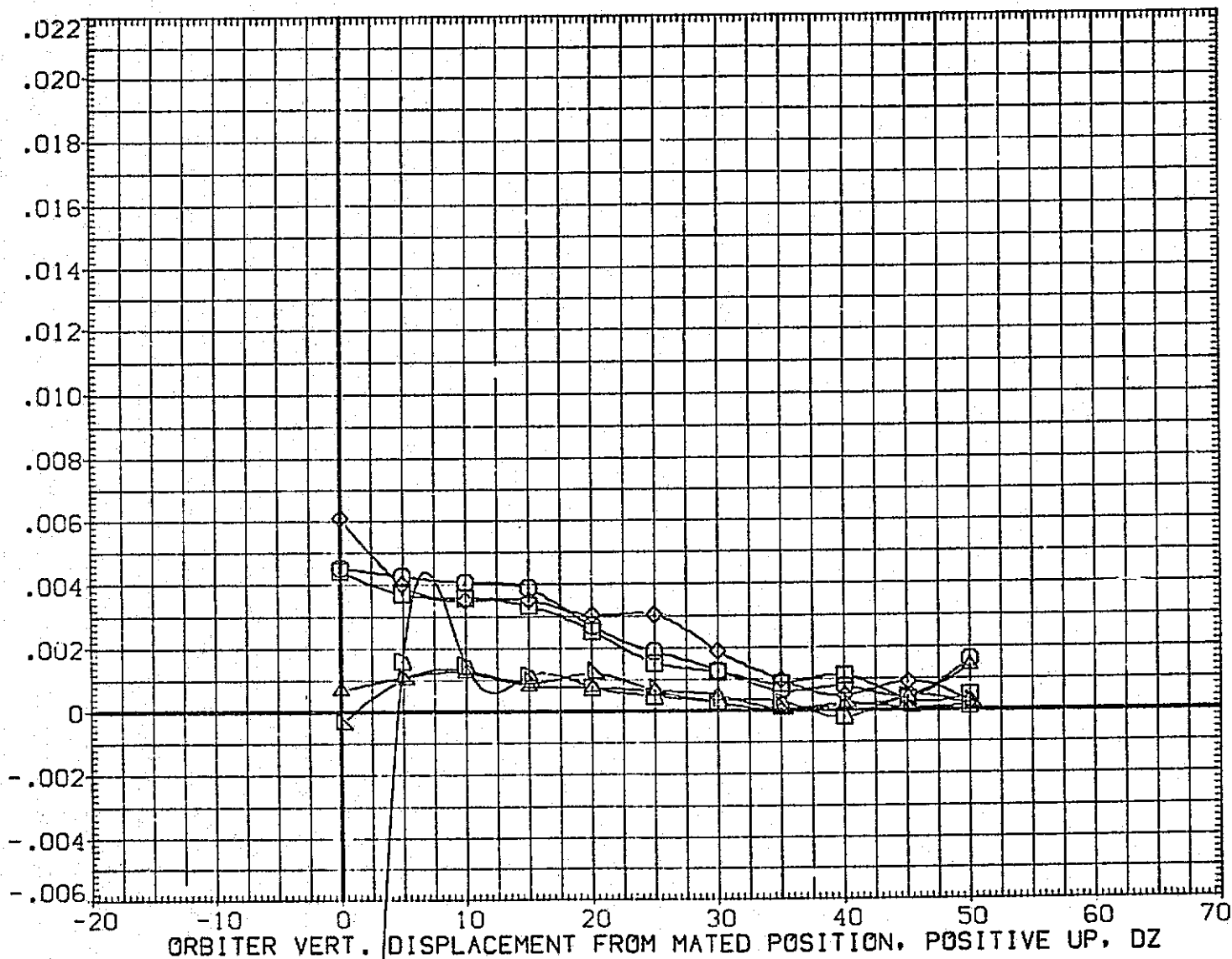


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(QFE048) ○ LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)
 (QFE049) □ LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)
 (QFE050) ◇ LTV44-559(CA26) 747/1 ATY 02 SI (ORBITER DATA)

BETA0 BETAC ELEVON
 5.000 .000 5.000
 5.000 .000 5.000
 5.000 .000 5.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 375.0000 IN. ZC
 SCALE .0125

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

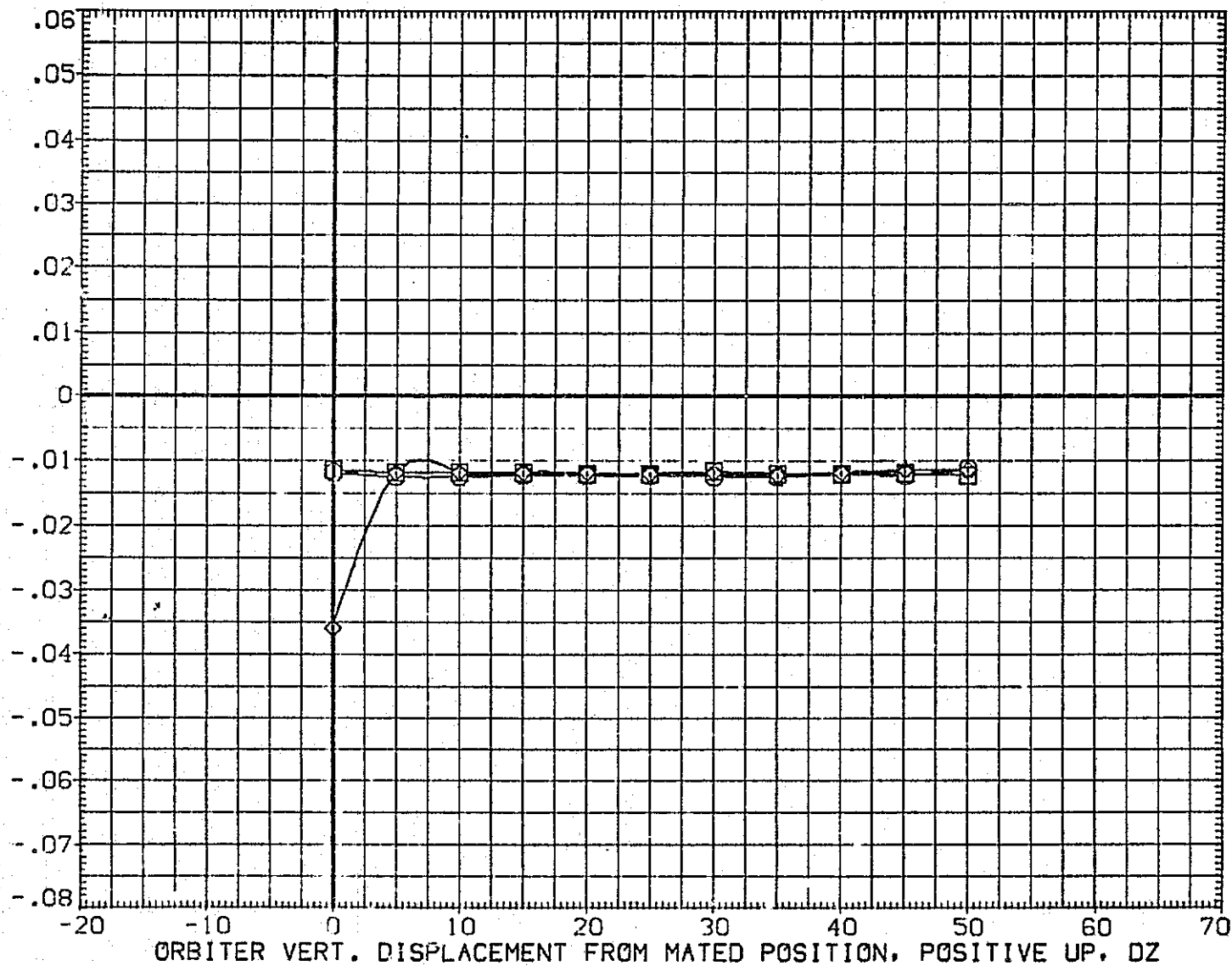


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(QFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(QFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(QFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
					XMRP 1109.0000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

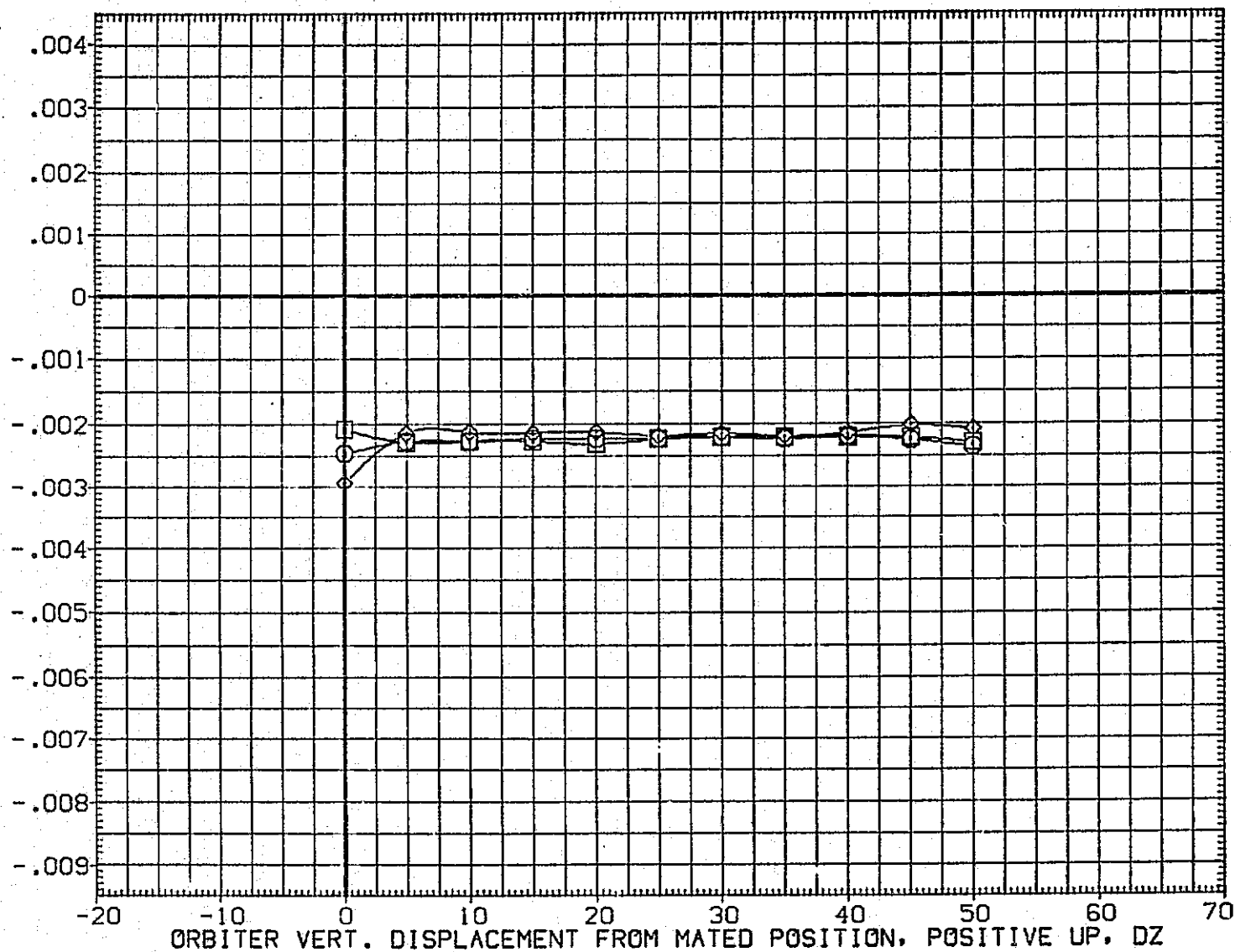


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION	
(QFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000 SO. FT.
(QFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100 IN.
(QFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800 IN.
					XM RP	1109.0000 IN. X0
					YM RP	.0000 IN. Y0
					ZM RP	375.0000 IN. Z0
					SCALE	.0125

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

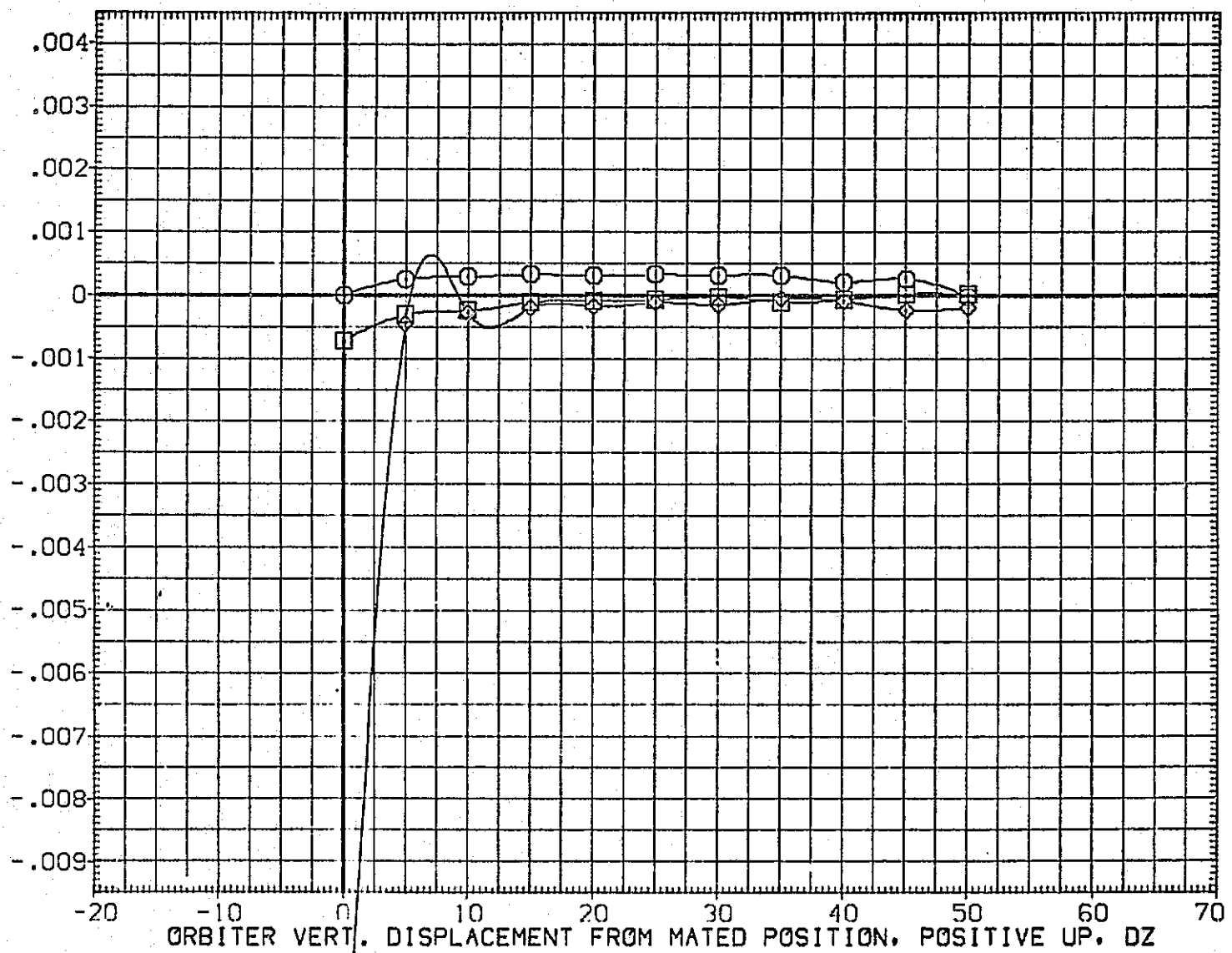


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(OFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(OFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(OFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA, DCPSB

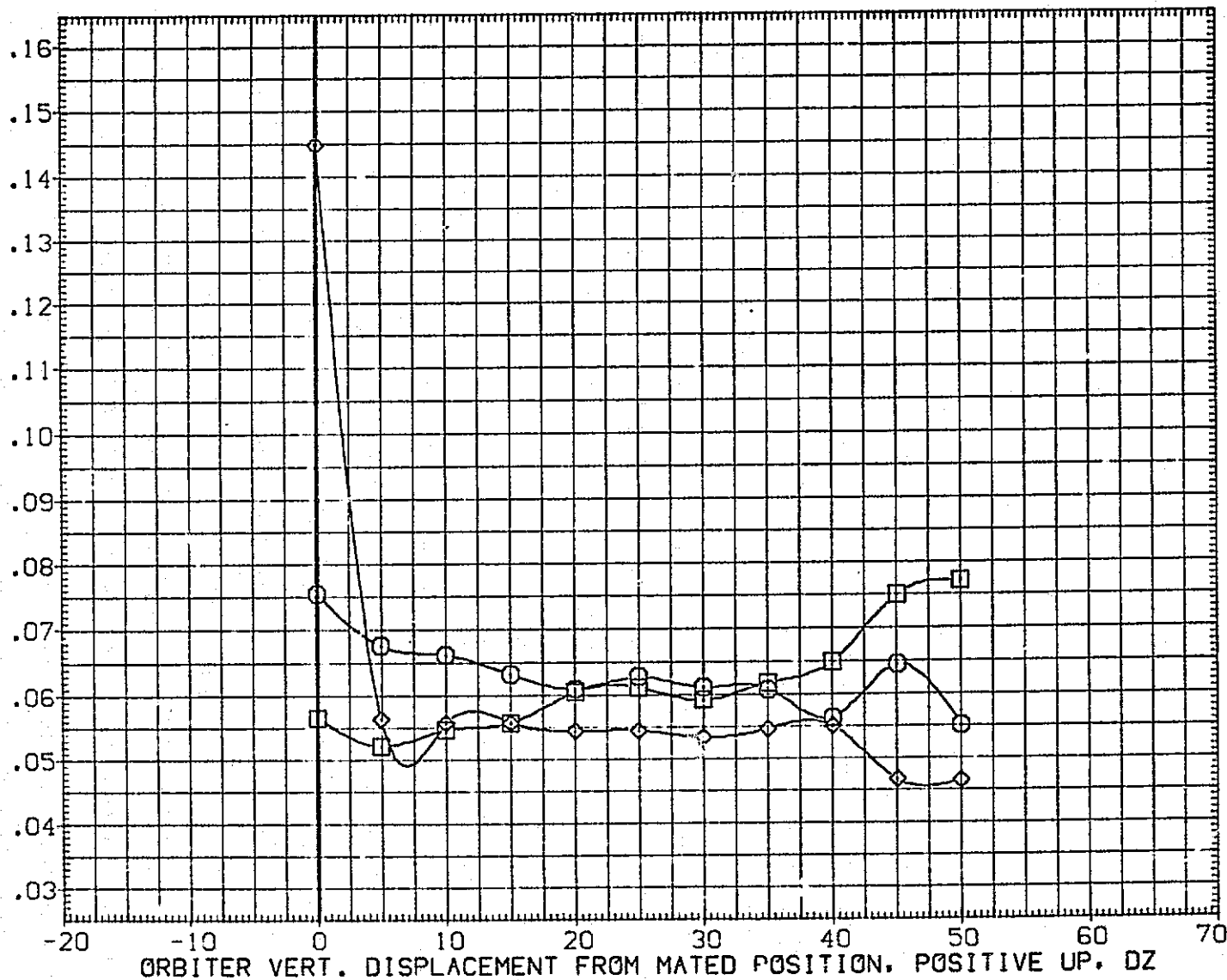


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(TFE048) ○	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE049) □	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE050) ◇	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

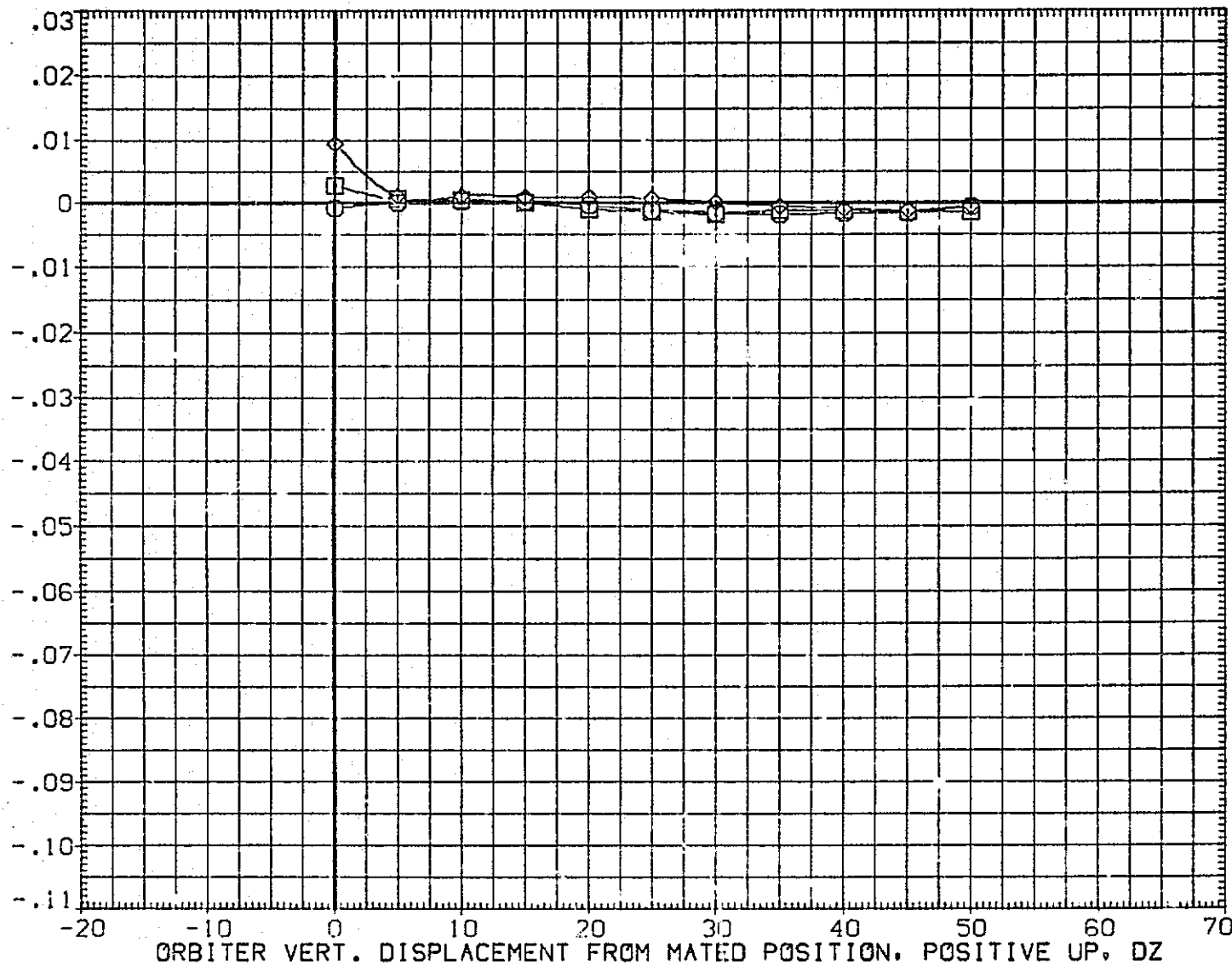


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(TFE048)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.00	SQ.FT.
(TFE049)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(TFE050)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2348.0400	IN.
					XMRP	1339.9000	IN. XC
					YMRP	.0000	IN. YC
					ZMRP	190.7500	IN. ZC
					SCALE	.0125	

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

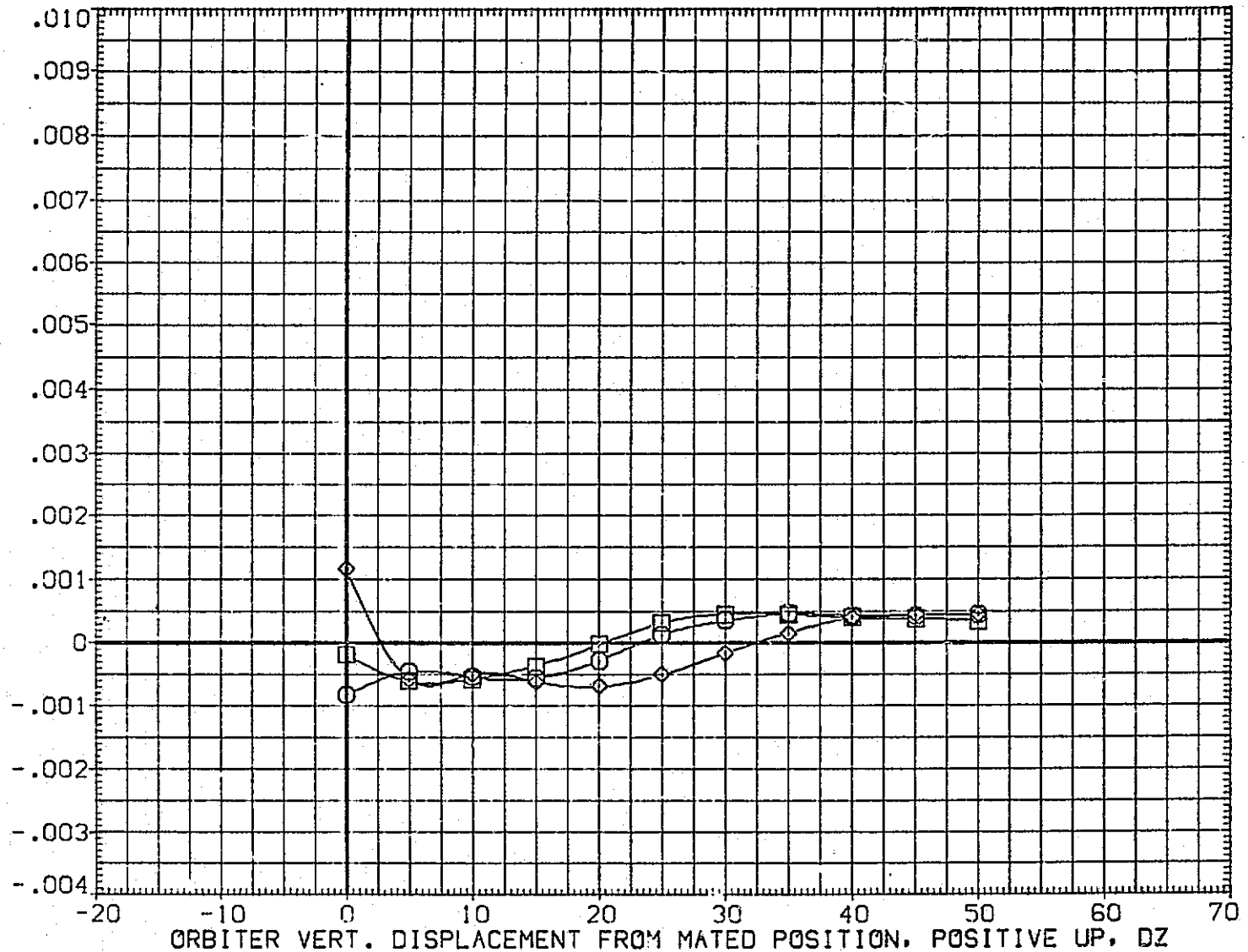


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(TFE048)	□	LTV44-559(CA26) 747/1 AT	02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF	5500.0000	50. FT.
(TFE049)	○	LTV44-559(CA26) 747/1 AT	02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF	327.7800	IN.
(TFE050)	◇	LTV44-559(CA26) 747/1 AT	02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF	2349.0400	IN.
							XMRP	1339.9000	IN. XC
							YMRP	.0000	IN. YC
							ZMRP	190.7500	IN. ZC
							SCALE	.0125	

BETA0 BETA1 ELEV0

REFERENCE INFORMATION

SREF 5500.0000 50. FT.
 LREF 327.7800 IN.
 BREF 2349.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

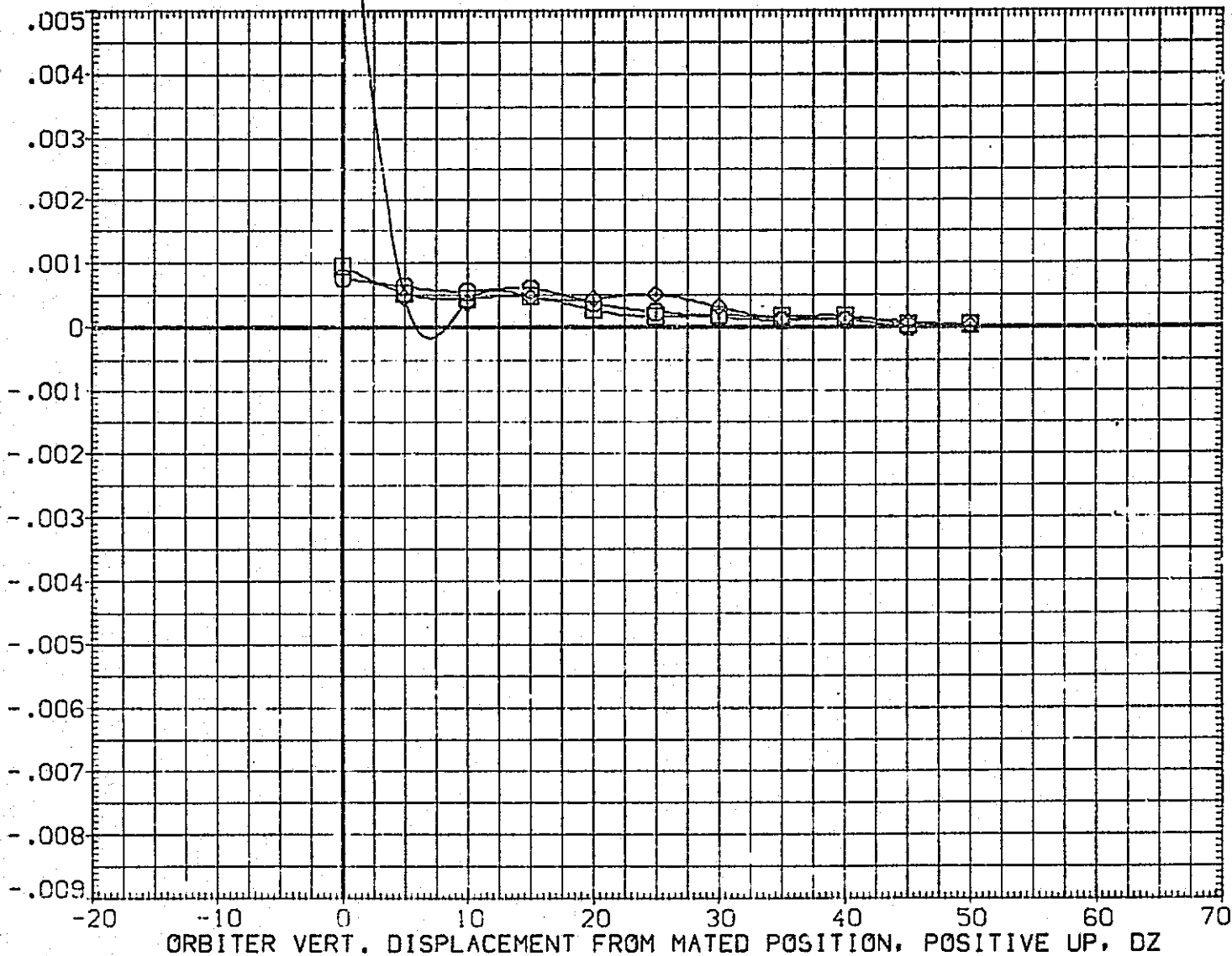


FIG. 239 LAT-DIRECT AERO VS DELZ, ALPHA747=2.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION		
(MFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SQ.FT.
(MFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. X0
(MFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. Y0
(MFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
					SCALE	.0125	

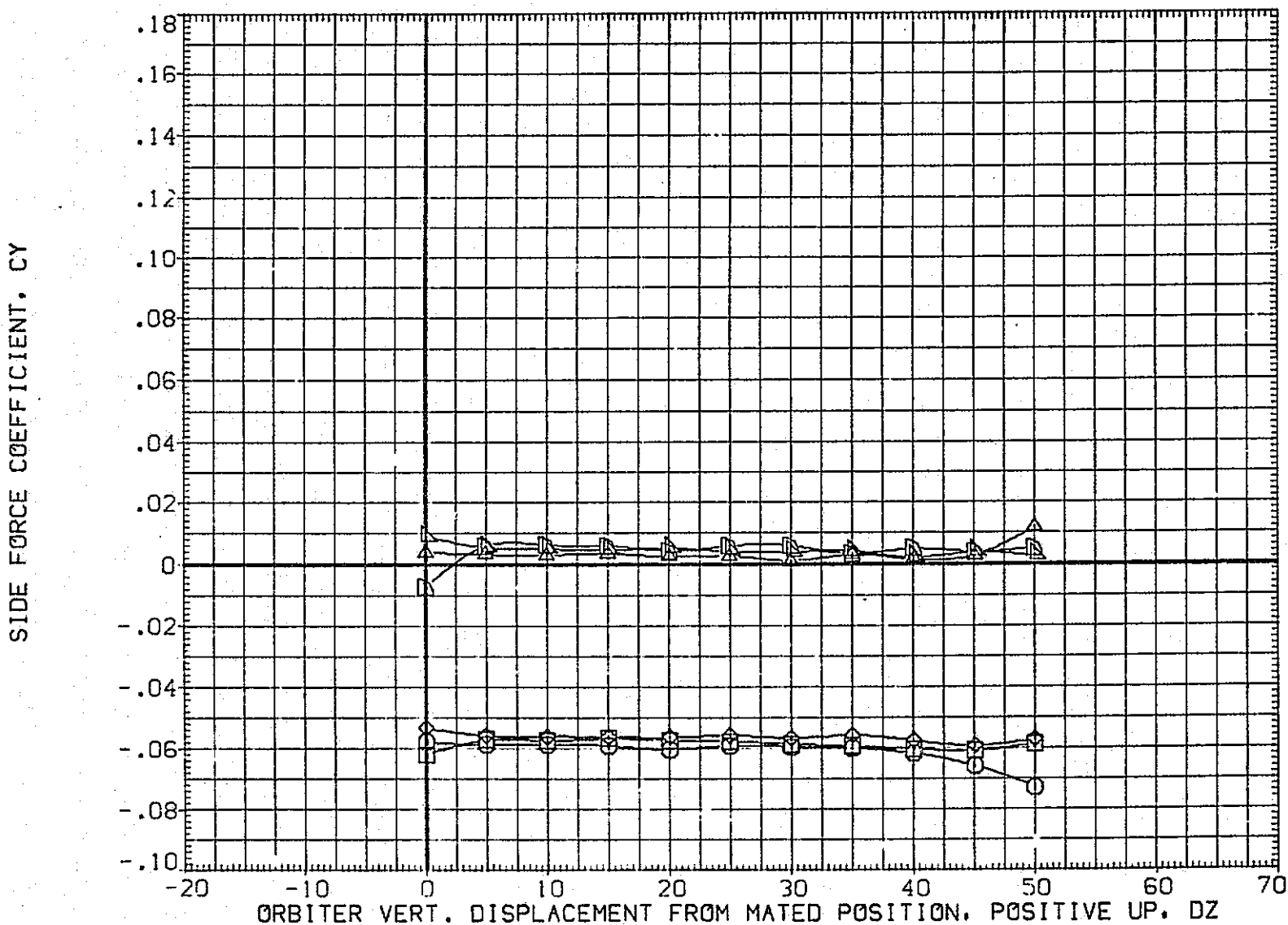


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(MFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	SQ.FT.
(MFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(MFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. XO
(MFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. YO
(MFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. ZO
					SCALE	.0125	

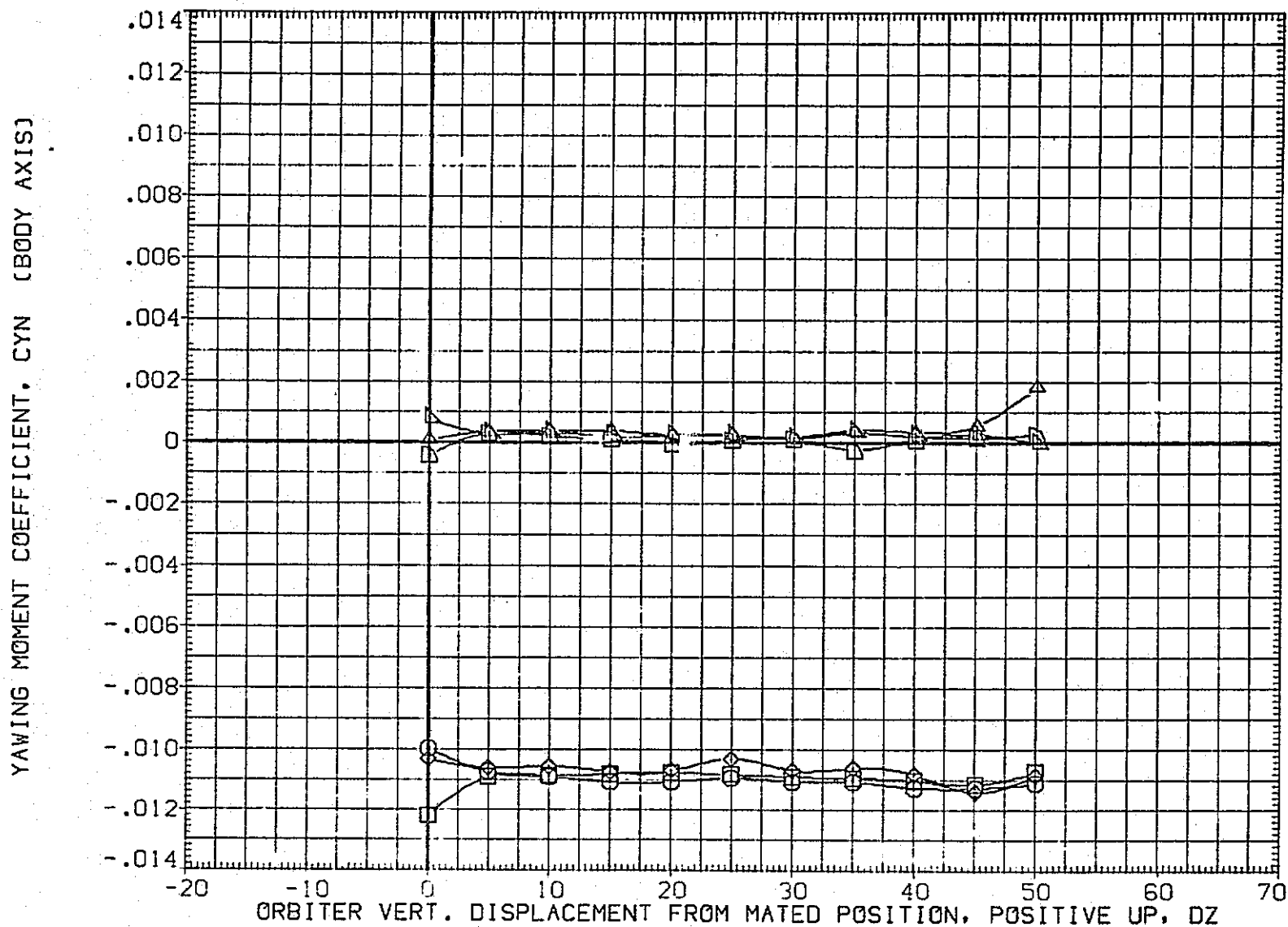


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(MFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.6800 IN.
(MFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

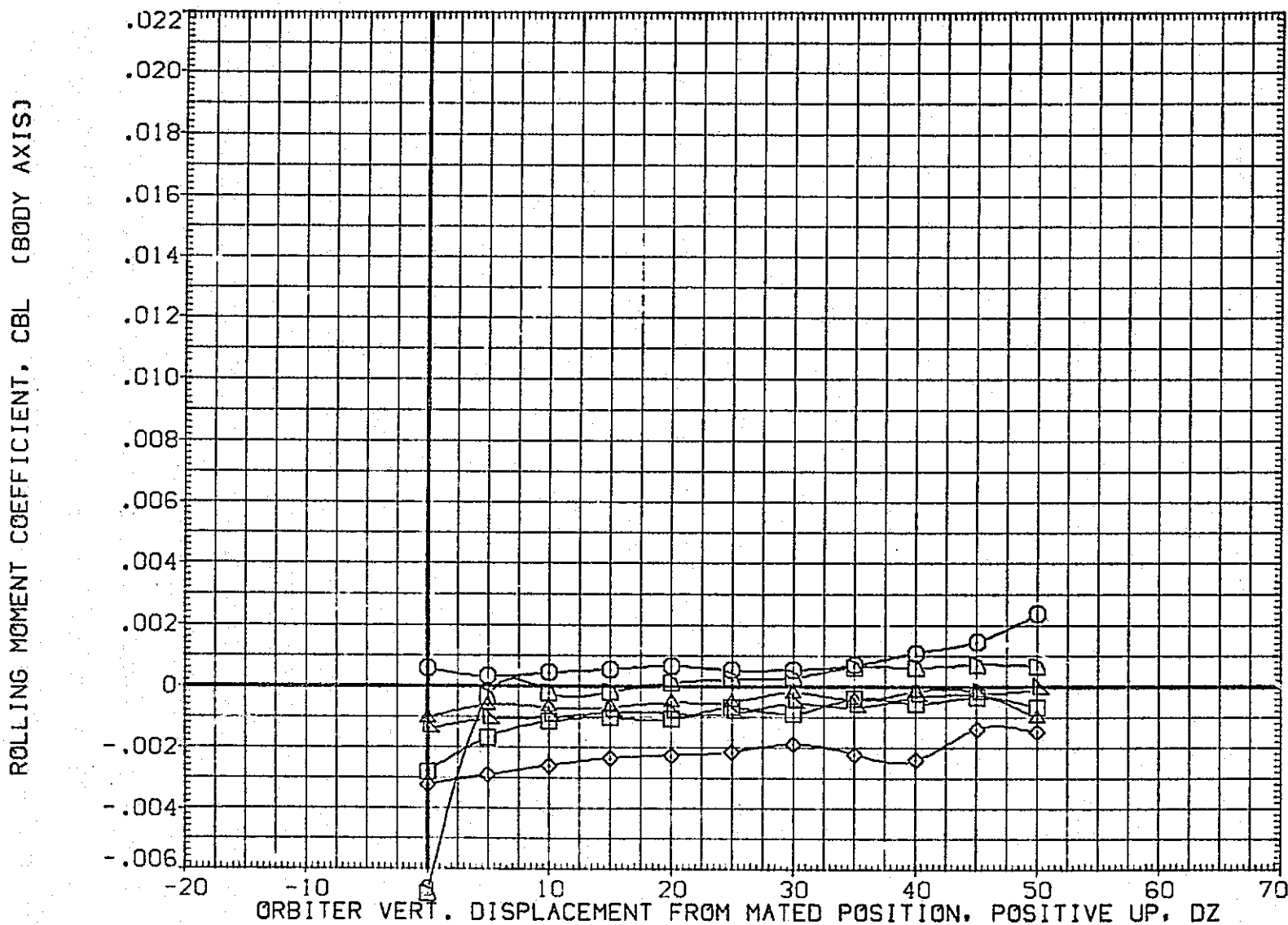


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(MFE092)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	50.FT.
(MFE093)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.9100	IN.
(MFE094)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
(MFE089)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP	1109.0000	IN. X0
(MFE090)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP	.0000	IN. Y0
(MFE091)	LTV44-559(CA26)	747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP	375.0000	IN. Z0
						SCALE	.0125	

ORBITER STRUT LEFT HAND SIDE PRESSURE COEFFICIENT, CPS1

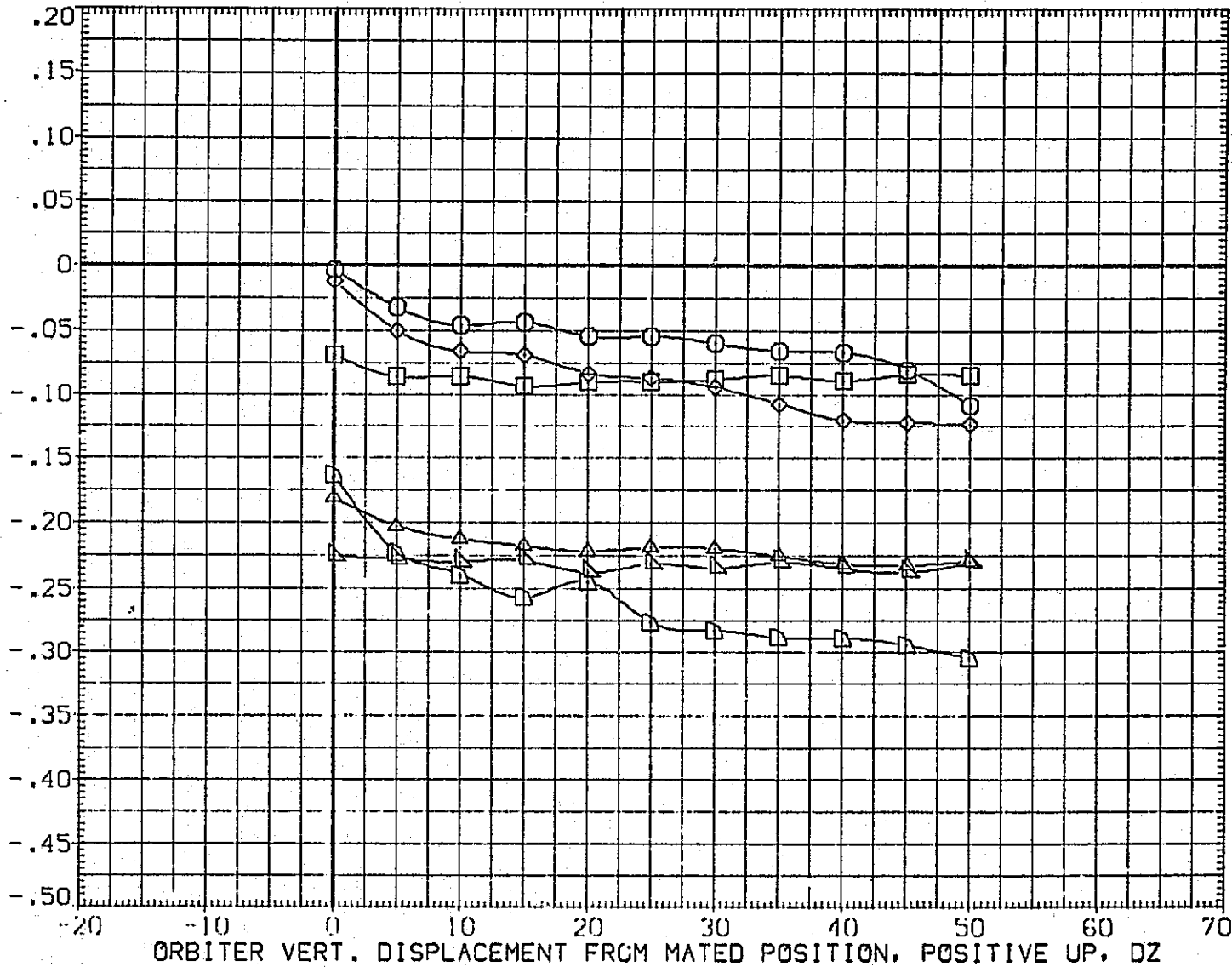


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(MFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF 2690.0000 SQ.FT.
(MFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF 474.8100 IN.
(MFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF 936.8800 IN.
(MFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	XMRP 1109.0000 IN. X0
(MFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	YMRP .0000 IN. Y0
(MFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	.000	.000	5.000	ZMRP 375.0000 IN. Z0
					SCALE .0125

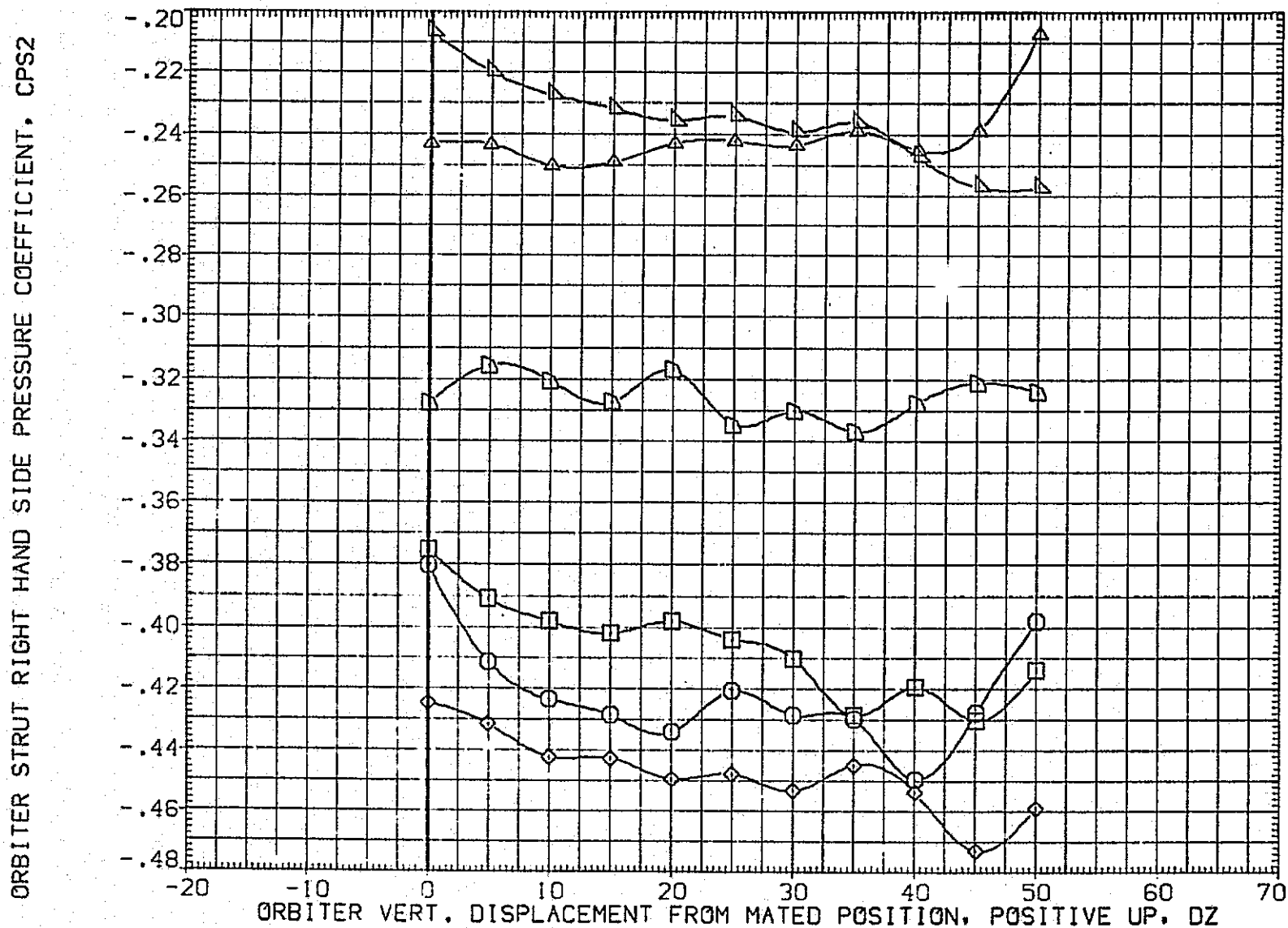


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON	REFERENCE INFORMATION
(NFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF 5500.0000 50.FT.
(NFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF 327.7800 IN.
(NFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF 2348.0400 IN.
(NFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(NFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(NFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

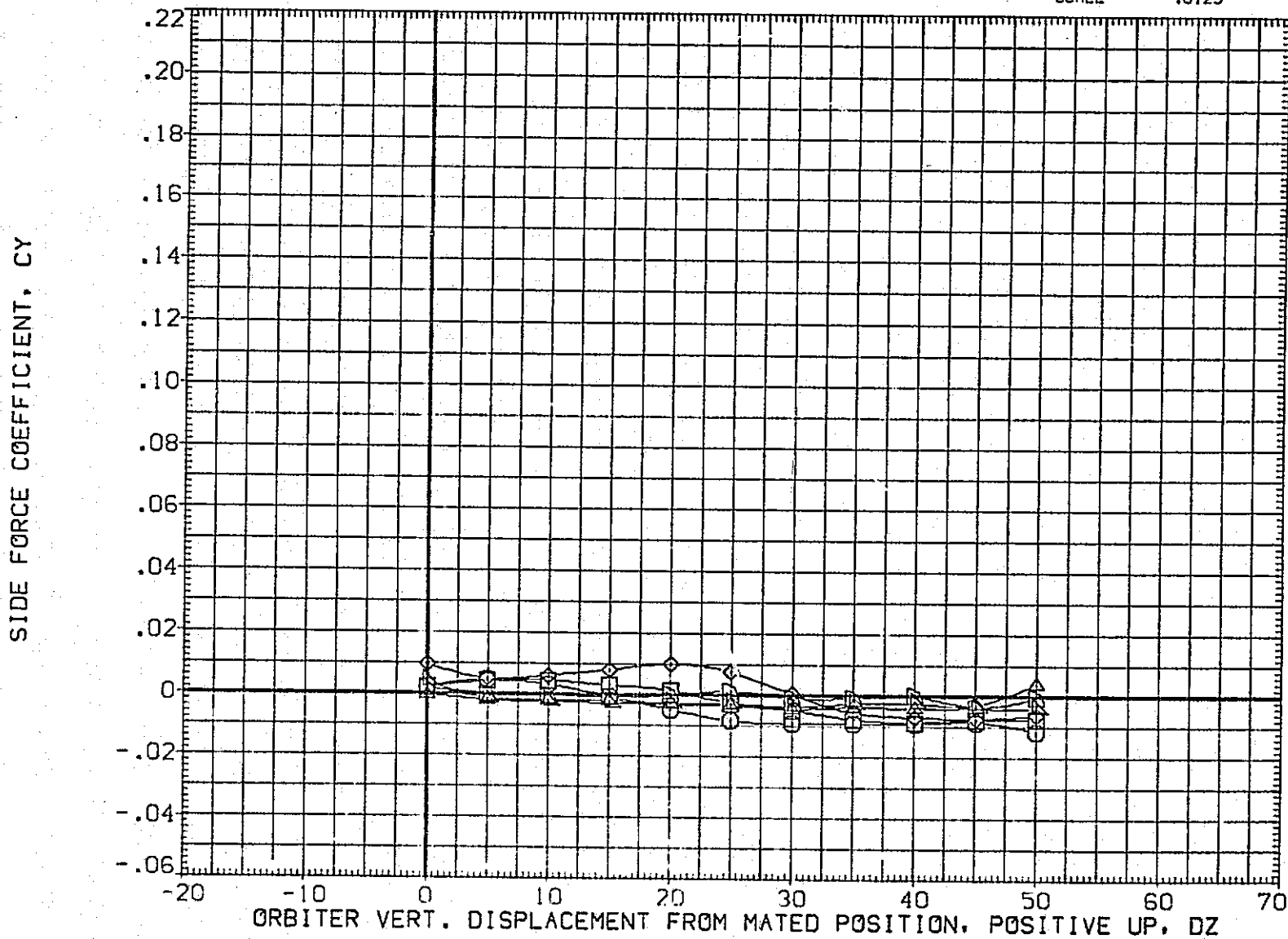


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(NFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF 5500.0000 SQ.FT.
(NFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF 327.7800 IN.
(NFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF 2348.0400 IN.
(NFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(NFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(NFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

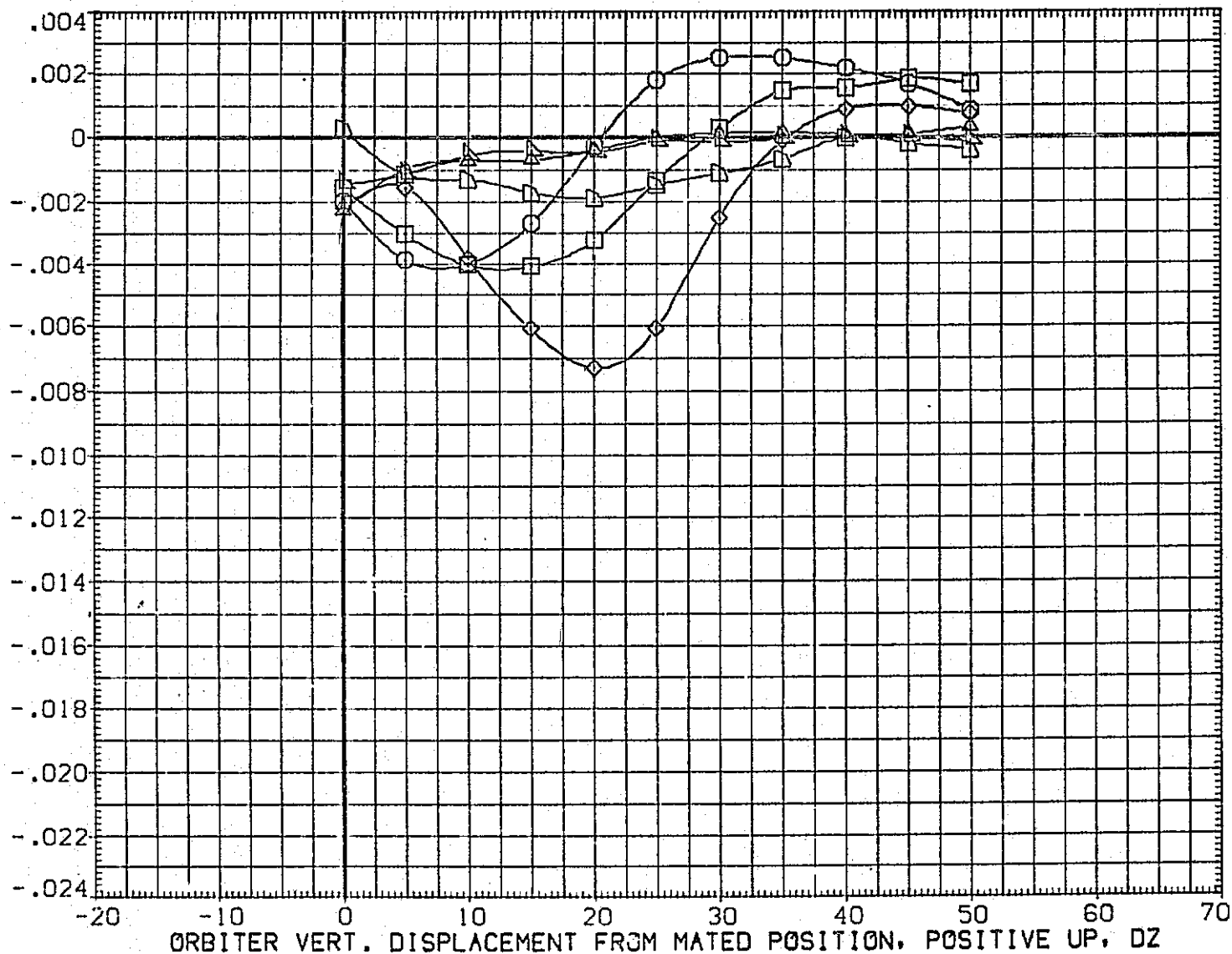


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION
(NFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	SREF 5500.0000 SQ.FT.
(NFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	LREF 327.7800 IN.
(NFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000	BREF 2348.0400 IN.
(NFE089)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	XMRP 1339.9000 IN. XC
(NFE090)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	YMRP .0000 IN. YC
(NFE091)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	.000	.000	5.000	ZMRP 190.7500 IN. ZC
					SCALE .0125

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

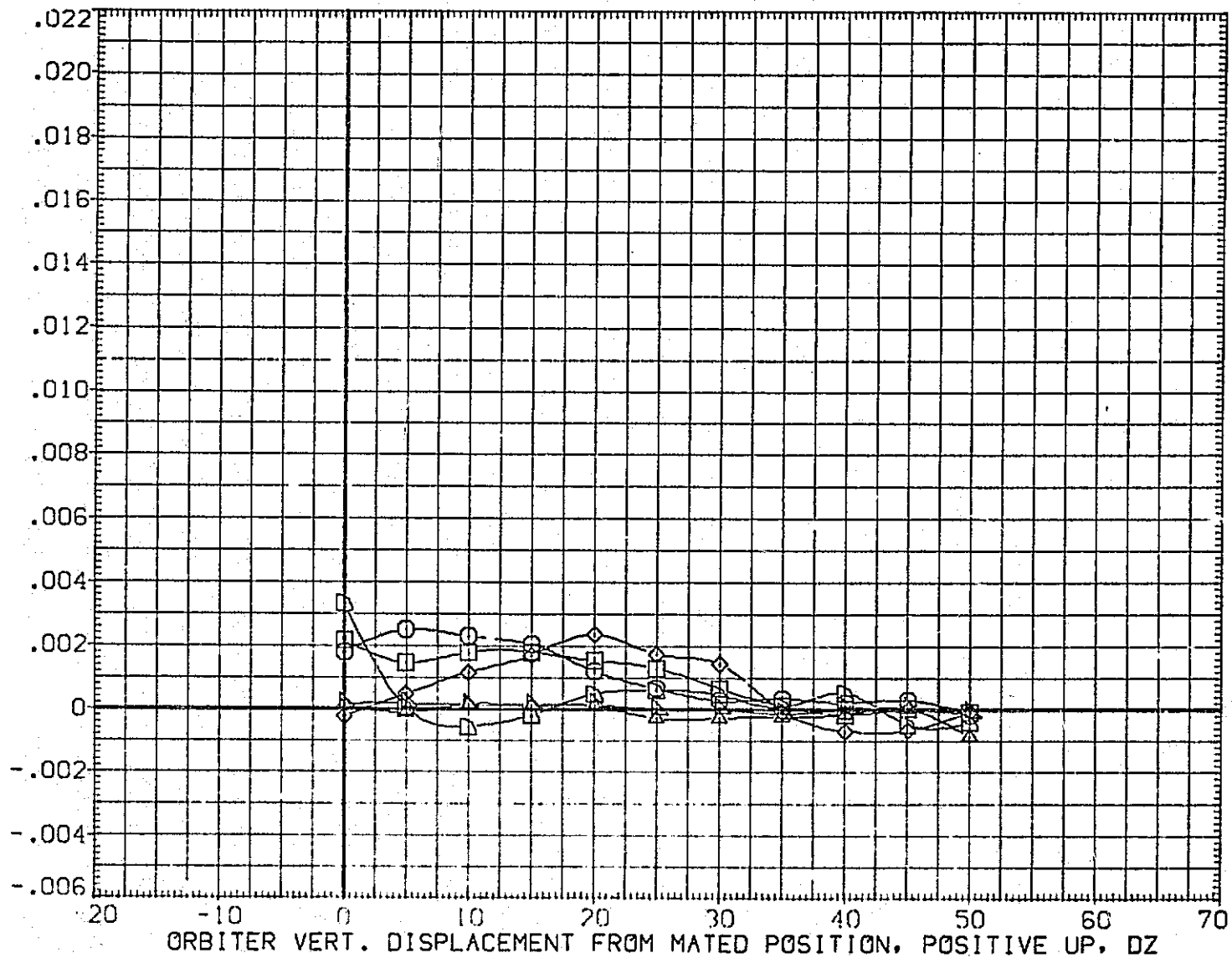


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETA C	ELEVON
(QFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(QFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000
(QFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XM RP	1109.0000	IN. X0
YM RP	.0000	IN. Y0
ZM RP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

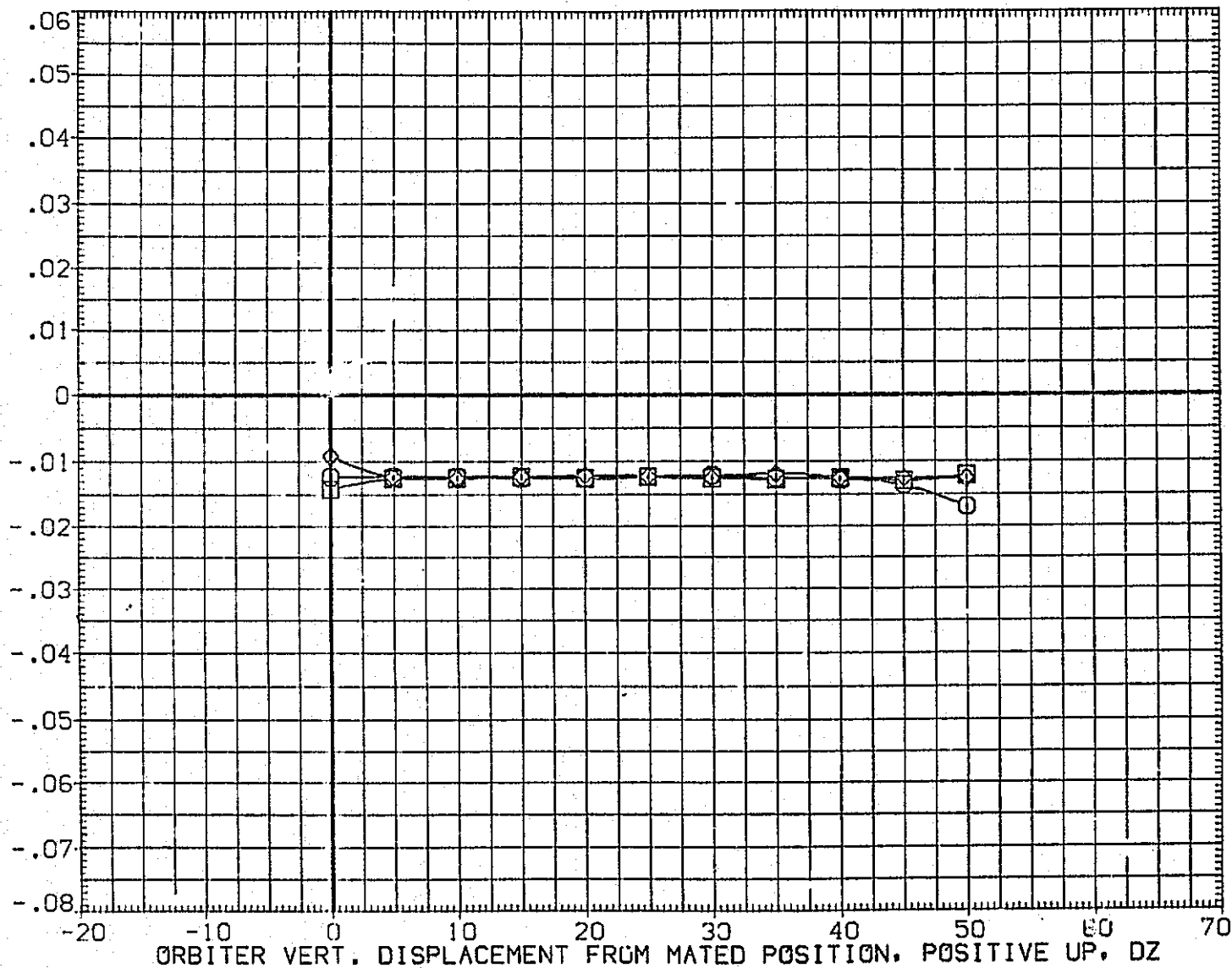


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON	REFERENCE INFORMATION		
(QFE092) □	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	SREF	2690.0000	50.FT.
(QFE093) □	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	LREF	474.8100	IN.
(QFE094) ◊	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)	5.000	.000	5.000	BREF	936.6800	IN.
					XMRP	1109.0000	IN. X0
					YMRP	.0000	IN. Y0
					ZMRP	375.0000	IN. Z0
					SCALE	.0125	

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYNB

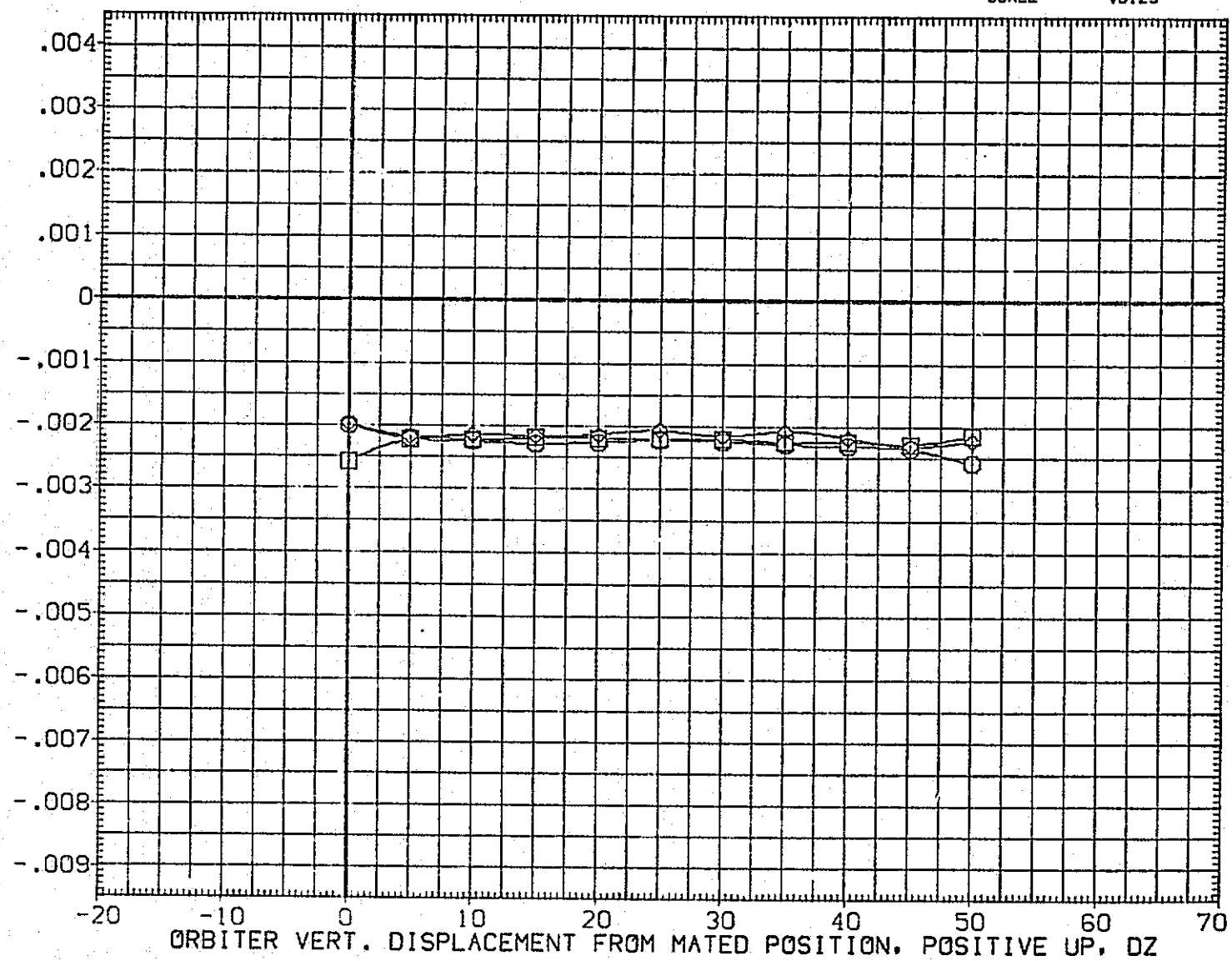


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0
 (A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(QFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(QFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(QFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

BETA0	BETAC	ELEVON
5.000	.000	5.000
5.000	.000	5.000
5.000	.000	5.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.FT.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

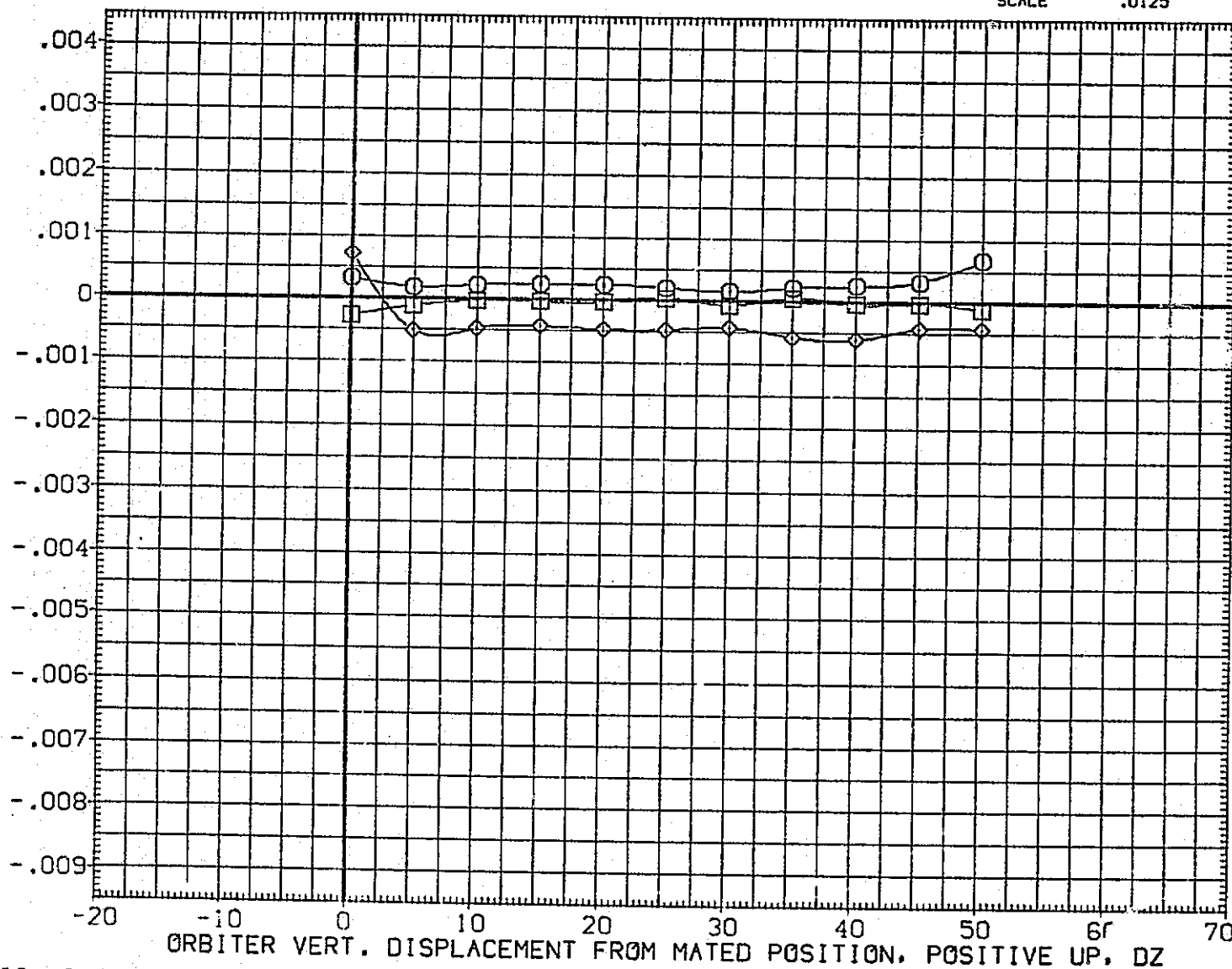


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(QFE092)	○	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(QFE093)	□	LTV44-359(CA26) 747/1 ATY 02 S1 (ORBITER DATA)
(QFE094)	◇	LTV44-559(CA26) 747/1 ATY 02 S1 (ORBITER DATA)

BETA0	BETAC	ELEVON
5.000	.000	5.000
5.000	.600	5.000
5.000	.000	5.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
SREF	936.6800	IN.
XMRP	1109.0000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

DERIVATIVE OF (CPS1 - CPS2) WITH RESPECT TO BETA, DCPSB

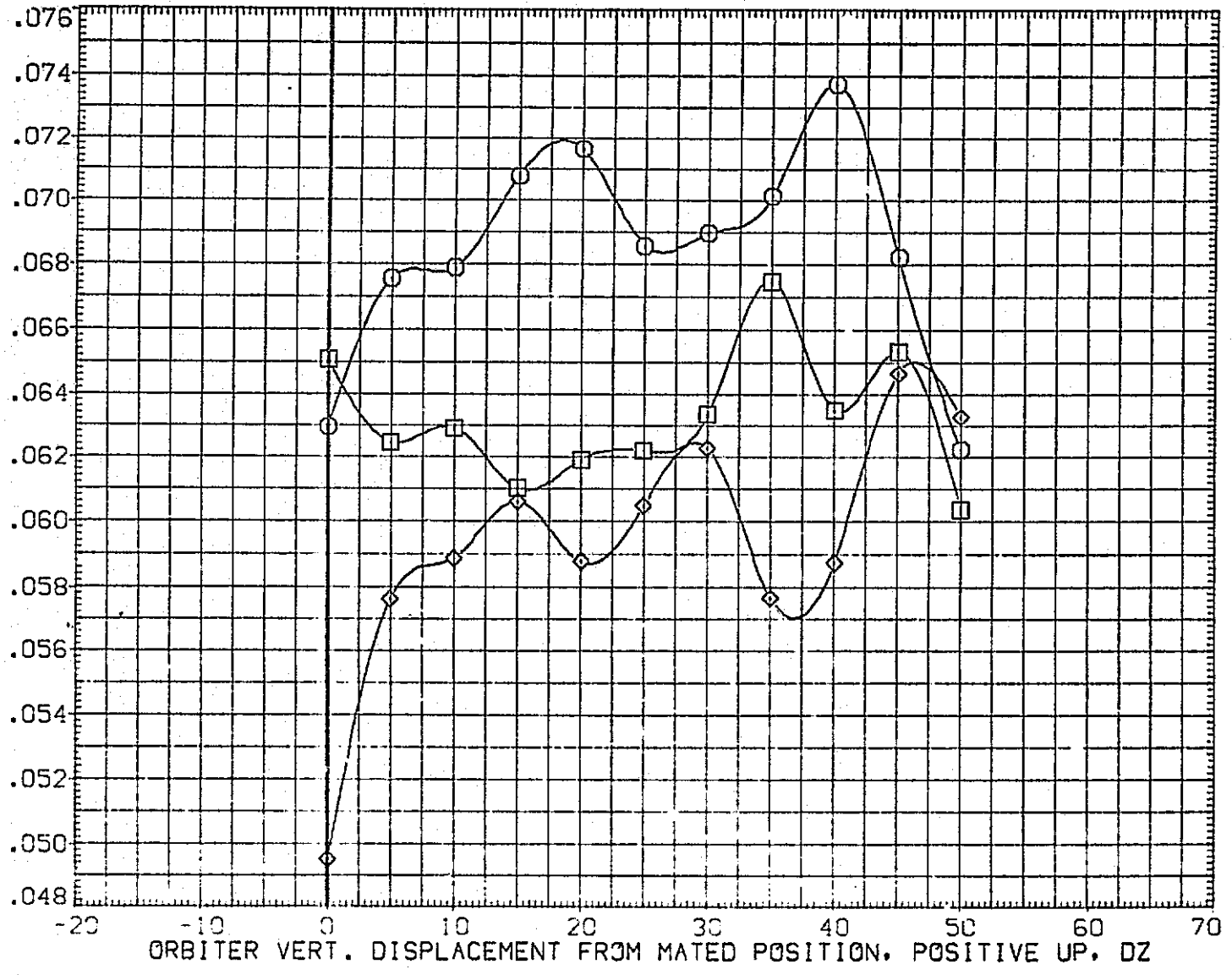


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA0	BETAC	ELEVON
(TFE092)	LTV44-559(CA26) 747/I ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE093)	LTV44-559(CA26) 747/I ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE094)	LTV44-559(CA26) 747/I ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF SIDE FORCE COEFFICIENT WITH RESPECT TO BETA, CYB

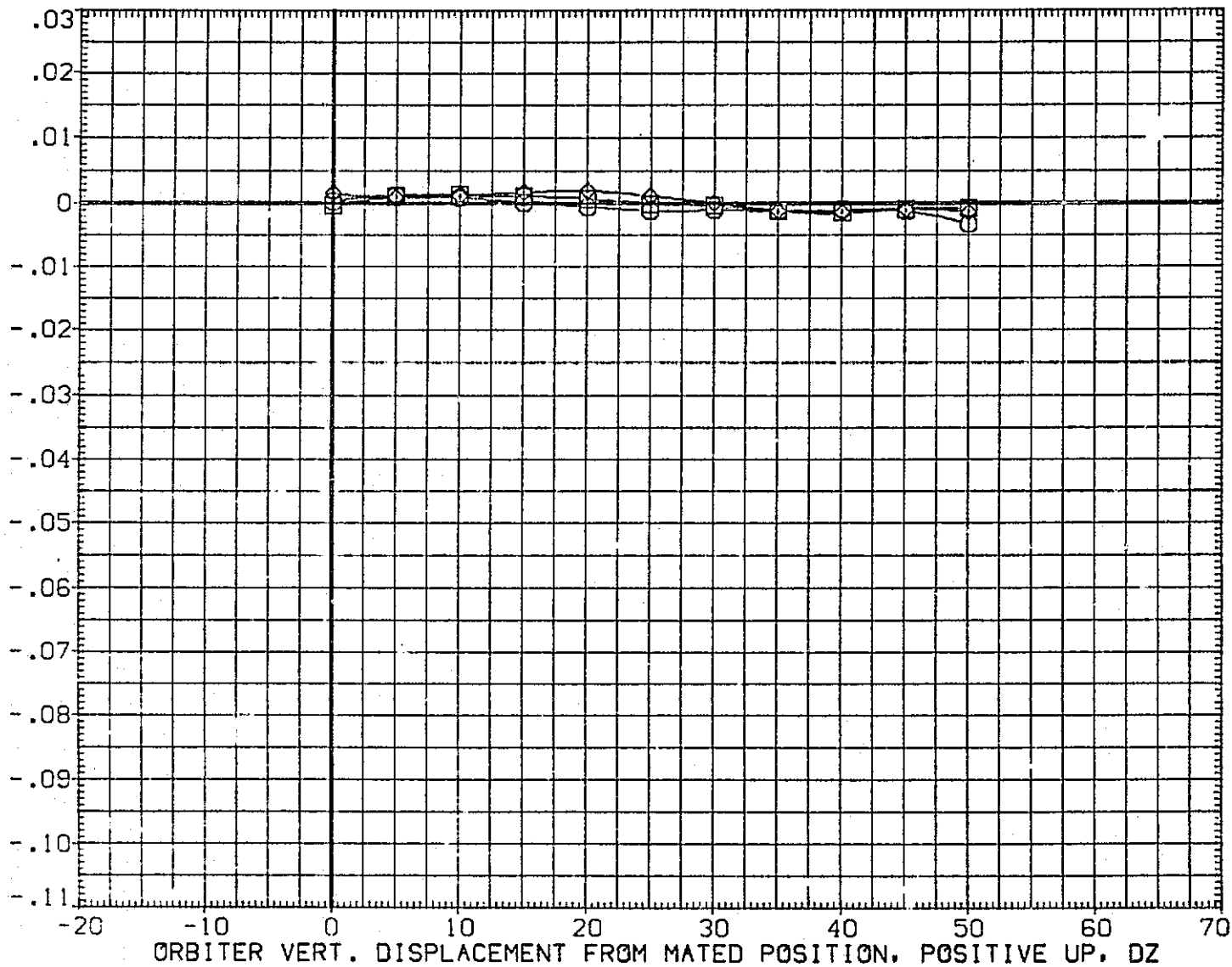


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL
 (TFE092) ○
 (TFE093) □
 (TFE094) ◇

CONFIGURATION DESCRIPTION
 LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
 LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)
 LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)

BETA0 BETAC ELEVON
 5.000 .000 5.000
 5.000 .000 5.000
 5.000 .000 5.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

DERIVATIVE OF YAWING MOMENT COEFFICIENT WITH RESPECT TO BETA, CYND

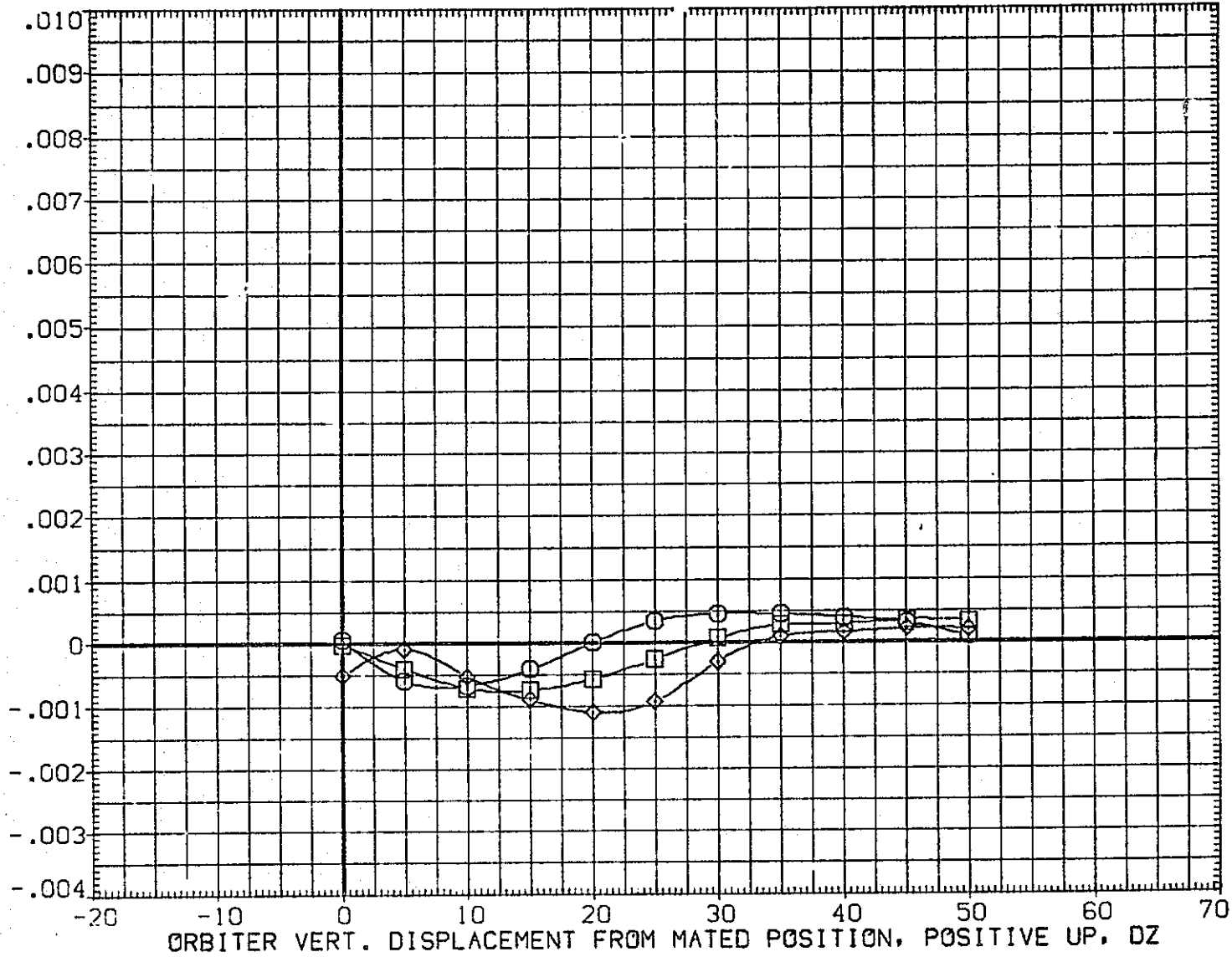


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAG	BETAC	ELEVON
(TFE092)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE093)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000
(TFE094)	LTV44-559(CA26) 747/1 ATY 02 S1 (CARRIER DATA)	5.000	.000	5.000

REFERENCE INFORMATION		
SREF	5500.0000	SG.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN. XC
YMRP	.0000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

DERIVATIVE OF ROLLING MOMENT COEFFICIENT WITH RESPECT TO BETA, CBLB

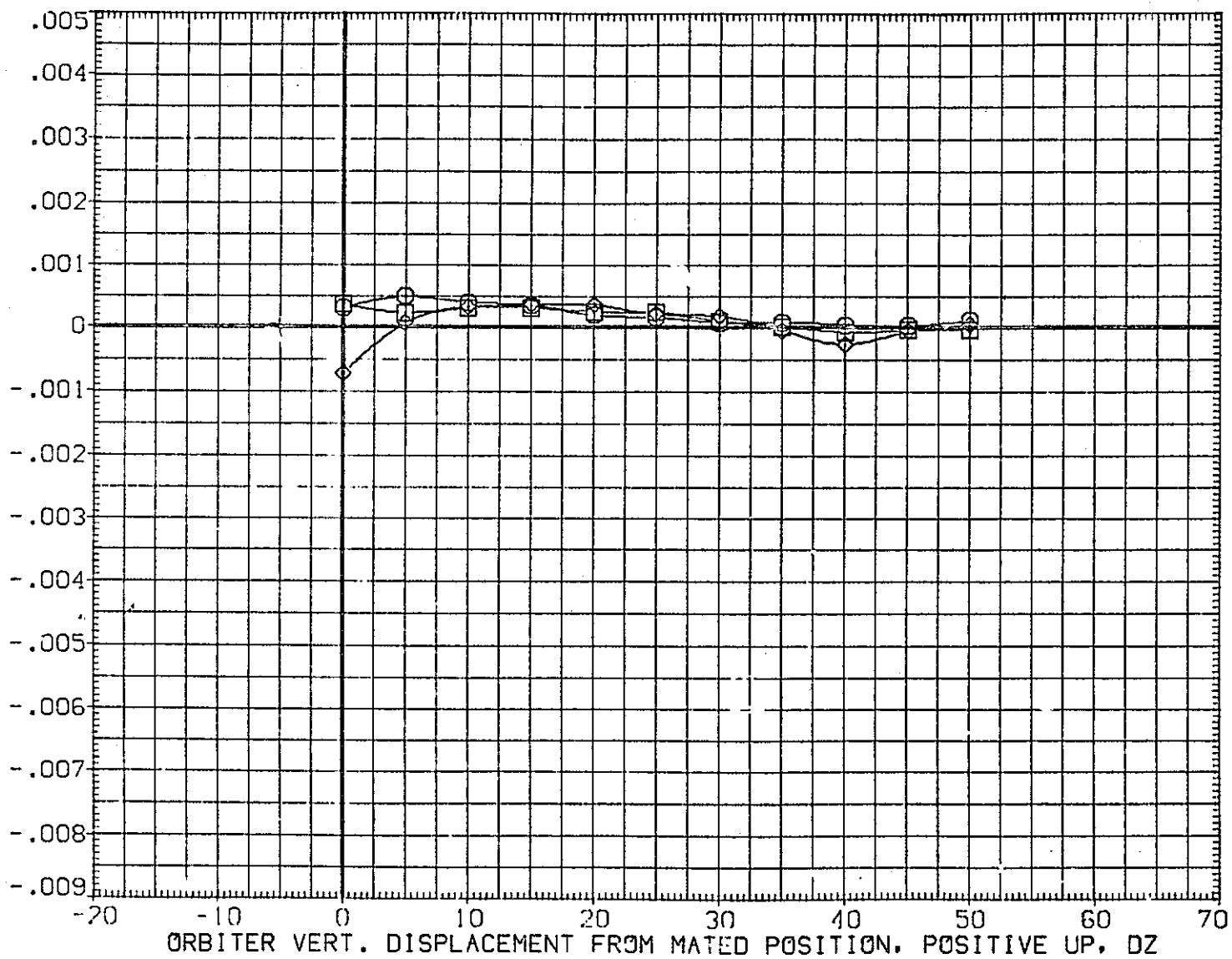


FIG. 240 LAT-DIRECT AERO VS DELZ, ALPHA747=4.0, DELBETA=5.0

(A)MACH = .60