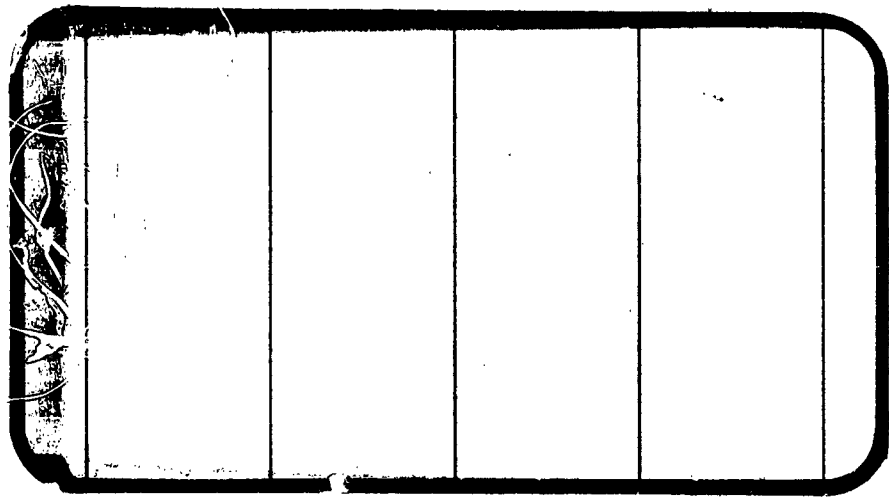


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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



**CHRYSLER
CORPORATION**

July, 1974

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NASA CR-134,402

DETERMINATION OF AERODYNAMIC STABILITY AND
DRAG OF THE TITAN III C SRM DURING ENTRY
(FA-4)

By

Paul E. Ramsey, NASA/MSFC

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: MSFC TWT 587
NASA Series No.: FA-4
Date: December, 1973 and January, 1974
Occupancy Time: 166 Hours

FACILITY COORDINATOR:

Robert Pitcock
Marshall Space Flight Center
Mail Stop S&E-AERO-AAE
Huntsville, Alabama 35802

Phone: (205) 453-2519

PROJECT ENGINEER:

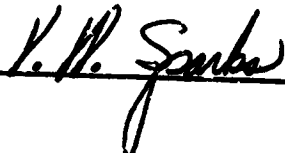
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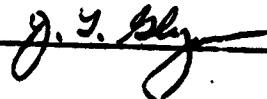


Maurice Moser, Jr.
Data Operations



This document has been reviewed and is approved for release.

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DETERMINATION OF AERODYNAMIC STABILITY AND
DRAG OF THE TITAN III C SRM DURING ENTRY (FA-4)

By Paul E. Ramsey, NASA/MSFC

ABSTRACT

An experimental aerodynamic investigation was conducted in the NASA/MSFC 14-inch Trisonic Wind Tunnel during December 1973 and January 1974 on a 0.00736 scale model of the TITAN III C Solid Rocket Motor (SRM). Static stability and drag data were obtained for Mach numbers of 0.6 to 4.96, angles of attack of -10° to 190° , and roll angles of 0 to 360° .

The resulting data will be used to predict the dynamic motions of the SRM during entry which will then be compared to flight data. This comparison will improve and lend credibility to methods for predicting the entry dynamics of the Space Shuttle Solid Rocket Booster (SRB), which is needed for recovery studies and design of the parachute recovery system.

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TABLE OF CONTENTS

ABSTRACT	1
INDEX OF MODEL FIGURES	4
INDEX OF DATA FIGURES	5
NOMENCLATURE	6
CONFIGURATIONS INVESTIGATED	9
MODEL DESCRIPTION AND TEST HARDWARE	9
DATA REDUCTION	11
TEST FACILITY DESCRIPTION	12
TABLES	
I ALPHA SCHEDULE AND STING COMBINATION NOMENCLATURE	14
II TEST CONDITIONS	15
III A. DATA SET/RUN NUMBER COLLATION SUMMARY	16
B. COMBINED DATA SET LISTING	22
IV MODEL DIMENSIONAL DATA	25
FIGURES	
MODEL	30
DATA	43
APPENDIX - TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

FIGURE	DESCRIPTION	PAGE
1.	Relation of Balance Axis to Missile Axis	30
2.	Major Dimensions of Titan III C SRM Model	31
3.	Balance Adapter 113 (from MSFC Dwg. No. 80M42541)	32
4.	Balance Adapter 118 (from MSFC Dwg. No. 80M42582)	33
5.	Sting Adapters	34
6.	Base Pressure Tube Locations for Model Roll of Zero Degrees	35
7.	Mounting Arrangements for Angle of Attack -10° to 190°	36
8.	Balance Moment Center and Moment Reference Point Location	38
9.	Photograph of Model/Sting Configuration used for Angle of Attack Range -10° to 50°	39
10.	Photograph of Model/Sting Configuration used for Angle of Attack Range 50° to 90°	40
11.	Photograph of Model/Sting Configuration used for Angle of Attack Range 90° to 130°	41
12.	Photograph of Model/Sting Configuration used for Angle of Attack Range 130° to 190°	42

INDEX OF DATA FIGURES

TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENT SCHEDULE	PAGES
Longitudinal Stability Characteristics of the Titan SRM (NBETP)	PHI MACH	(A)	1-96
Lateral Stability Characteristics as a Function of Angle of Attack (NBETP)	PHI MACH	(B)	97-163

PLOTTED COEFFICIENTS SCHEDULE

(A) C_{NM} , C_{LM} , C_A , X_{CP}/L versus ALPHA

(B) C_{YM} , C_{YN} , C_{BL} versus ALPHA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(P_1 - P_\infty) / q$
M	MACH	Mach number; V/a
P		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per 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
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
l_{REF}	LREF	reference length or wing mean
c		aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
	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

Missile-Axis System Defined in Terms of Body-Axis

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
ϕ	PHI	roll angle, i.e., angle between the missile Y_m -axis and the body Y-axis (from a pilot's viewpoint in an airplane, a positive roll angle is a clockwise rotation), degrees
C_{A_f}	CAF	forebody axial force coefficient in the body and missile axis system
C_{A_b}	CAB	base axial force coefficient (same in both missile and body axis systems)
C_{A_m}	CA	total axial force coefficient in the missile axis system, $F_{A_m}/q_{\infty} S_{ref}$
C_l		rolling moment coefficient in the body axis system
C_{l_m}	CBL	rolling moment coefficient in the missile axis system, $M_{x_m}/q_{\infty} S_{ref} l_{ref}$
C_m		pitching moment coefficient in the body axis system
C_{m_m}	CLMM	pitching moment coefficient in the missile axis system, $M_{y_m}/q_{\infty} S_{ref} l_{ref}$
C_N		normal force coefficient in the body axis system

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>	
C_{N_m}	CNM	normal force coefficient in the missile axis system, $F_{N_m}/q_\infty S_{ref}$	
C_n		yawing moment coefficient in the body axis system	
C_{n_m}	CYNM	yawing moment coefficient in the missile axis system, $M_{Z_m}/q_\infty S_{ref} l_{ref}$	
$C_{p_{b_1}}$	CPB1	base pressure coefficient; $\frac{P_{b_1} - P_\infty}{q_\infty}$	
C_Y		side force coefficient in the body axis system	
C_{Y_m}	CYM	side force coefficient in the missile axis system, $F_{Y_m}/q_\infty S_{ref}$	
X_{cp}/l	XCP/L	center of pressure location in fraction of body length from nose; $\frac{X_{c.g.}}{l_{body}} - \frac{C_{m_m}}{C_{N_m}} \frac{l_{ref}}{l_{body}}$	
F_{Y_m}		side force in the missile axis system, positive in the positive direction of Y_m	
F_{A_m}		total axial force in the missile axis system, positive in the negative direction of X_m	lb
F_{N_m}		normal force in the missile axis system, positive in the negative direction of Z_m	lb
M_{X_m}		rolling moment in the missile axis system, i.e., moment about the X_m -axis (a positive rolling moment tends to rotate the positive Y_m -axis toward the positive Z_m -axis)	in.-lb
M_{Y_m}		pitching moment in the missile axis system, i.e., moment about the Y_m -axis (a positive pitching moment tends to rotate the positive Z_m -axis toward the positive X_m -axis)	in.-lb
M_{Z_m}		yawing moment in the missile axis system, i.e., moment about the Z_m -axis (a positive yawing moment tends to rotate the positive X_m -axis toward the positive Y_m -axis)	in.-lb

CONFIGURATIONS INVESTIGATED

A 0.00736 scale model of the Titan III C Solid Rocket Motor was investigated. The model consisted of the basic SRM configuration plus all protuberances. Model component nomenclature is defined as:

- N SRM 17° half angle spherically blunted nose cone
- B 122.25-inch diameter SRM body
- E base with engine shroud and nozzle
- T 42-inch diameter TVC tank
- P protuberances; core attach arms, ground support arm fairings, and fore & aft staging rockets.

Table III A describes the Mach numbers and vehicle roll angles at which configuration NBETP was tested. Table IV contains the dimensional data for each of the components defined above.

MODEL DESCRIPTION AND TEST HARDWARE

The model geometry (0.00736-scale) is shown in figure 2, and consists of a blunted 17° half angle nose cone, a cylindrical body, engine shroud, engine nozzle, TVC tank, and protuberances.

The test model (MSFC 459) was designed to be used with the MSFC 14-inch TWT double knuckle sting system. When the included angle between the model and tunnel center lines was small ($\alpha = 0 - 50^\circ$ and $130^\circ - 180^\circ$) the model was conventionally end mounted on balance adapter 113, and for high angles ($\alpha = 50^\circ - 130^\circ$) the model was top or side mounted on adapter 118 using the forward hole pattern. Since the nose and base sections were interchangeable, testing from 0 to 90° angles of attack (with the nose facing upstream) and 90° to 180° (with the nose facing aft) was accomplished

with the same sting and balance setup. The base section and aft facing nose ($\alpha = 90^\circ - 180^\circ$) have a through hole to accommodate the sting.

An aft body section immediately forward of the base section was removable to facilitate the installation of the top mounted sting adapter. One of the body sections contains a slot to clear the strut. This slot is omitted in the alternate body section used when the model was aft sting mounted. The resulting total number of model parts; excluding the balance, balance model adapter, and sting adapter, was 9: two noses (one with through hole), two bodies (one with sting adapter slot), two aft body sections (one with sting adapter slot), one base section, and the TVC tank. The protuberances were attached to the nose and base sections and were rotated relative to the body to simulate model roll angles. The TVC tank was attached to the body with screws at various circumferential locations to correspond to the roll condition being tested.

Along with the balance adapters 113 and 118, sting 3 and sting adapters 1 and 3 were utilized. The angle-of-attack ranges, sting arrangements, and adapters are summarized in Table I. Figures 3, 4, and 5 present sketches of the balance and sting adapters.

Balance number 239 was used for the Titan SRM test.

Two base pressure measurements were made and were "teed" together. The base area and base pressure tube locations are indicated in figure 6. The base pressure tubes were rotated around the sting to maintain the same location relative to the model. Base pressures were measured only for the end mounted sting setup.

The model and sting combinations were designed to keep the model out of the tunnel boundary layer and centered as close as practical in the test section. The model's center section remained fixed with respect to the balance center; however, when the nose and base were interchanged, the distance from the nose to the balance center changed slightly. Typical model/sting/balance setups for the entire alpha range are presented in figure 7. Photographs of the tunnel installation over the entire alpha range are presented in figures 9 through 12.

Because testing subsonically was conducted at subcritical Reynolds numbers, 120 size grit was applied over the entire model for the complete test.

The tunnel test conditions are presented in Table II for the Mach numbers desired. Table IV consists of the model component descriptor sheets.

DATA REDUCTION

All model forces and moments were resolved in the missile axis system and presented in the form of nondimensional coefficients. When the model was reversed on the balance for angles from 90 to 180 degrees (nose and base section interchanged), the axial force, side force, pitching moment, and rolling moment were changed in sign to be consistent in sign convention with the other data.

Reference dimensions utilized in the data reduction consisted of:

<u>PARAMETER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Reference Area, S_{ref}	11,734 in. ²	0.636 in. ²
Reference Length, l_{ref}	122.25 in.	0.900 in.
Reference Span, b_{ref}	122.25 in.	0.900 in.
Balance Moment Center, BMC	-	4.000 in.
(Measured from nose on-body center line)		
Moment Reference Point		
X_{MRP} (From Nose)*	629.39 in.	4.633 in.
Y_{MRP}	0	0
Z_{MRP}	0	0
Base Area, A_b	11,734 in. ²	0.636 in. ²

*MRP is 65.15% l_B aft of nose, where $l_B = 7.111$ in.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by using two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50 and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated

walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

Tunnel flow is established and controlled with a servo-actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F . The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° ($\pm 10^{\circ}$). Sting offsets are available for obtaining various maximum angles of attack up to 90° .

TABLE I. ALPHA SCHEDULE AND STING COMBINATION NOMENCLATURE

ALPHA SCHEDULE	ALPHA RANGE**	NOMINAL PREBENT ANGLE, DEG.	STING NUMBER	STING ADAPTER		BALANCE ADAPTER	
				NO.	HOLE	NO.	HOLE
A	-10° - 10°	0	3	1	53	113	1
B	10° - 30°	20	3	1	51	113	3
C	30° - 50°	40	3	1	54	113	4
D	50° - 70°	60	3	3	63	118	A-3
E	70° - 90°	80	3	3	61	118	A-2
*F	90° - 110°	80	3	3	61	118	A-2
*G	110° - 130°	60	3	3	63	118	A-3
*H	130° - 150°	40	3	1	54	113	4
*I	150° - 170°	20	3	1	51	113	3
*J	170° - 190°	0	3	1	53	113	1

*Model nose and base sections are interchanged for these setups.

**Alpha ranges are in 2° increments.

TABLE III.B.

COMBINED DATA SET LISTING

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A01	R97001 R97002 R97003	0°
R97A02	R97006 R97007 R97008 R97009 R97010	0°
R97A03	R97011 R97012 R97014 R97015	337.5°
R97A04	R97016 R97017 R97019 R97020	337.5°
R97A05	R97021 R97022 R97023 R97024 R97025	315°
R97A06	R97026 R97027 R97028 R97029 R97030	315°
R97A07	R97031 R97032 R97034 R97035	292.5°
R97A08	R97036 R97037 R97039 R97040	292.5°

TABLE III.B. (Continued)

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A09	R97041 R97042 R97043 R97044 R97045	270°
R97A10	R97046 R97047 R97048 R97049 R97050	270°
R97A11	R97051 R97052 R97054 R97055	247.5°
R97A12	R97056 R97057 R97059 R97060	247.5°
R97A13	R97061 R97062 R97063 R97064 R97065	225°
R97A14	R97066 R97067 R97068 R97069 R97070	225°
R97A15	R97071 R97072 R97074 R97075	202.5°
R97A16	R97076 R97077 R97079 R97080	202.5°

TABLE III.B. (Concluded)

COMBINED DATA SET	INDIVIDUAL DATA SETS	PHI
R97A17	R97081 R97082 R97083 R97084 R97085	180°
R97A18	R97086 R97087 R97088 R97089 R97090	180°
R97A19	R97096 R97097 R97098 R97099 R97100	135°
R97A20	R97106 R97107 R97108 R97109 R97110	90°
R97A21	R97116 R97117 R97118 R97119 R97120	45°

TABLE IV. MODEL DIMENSIONAL DATA

MODEL COMPONENT: NOSE - N

GENERAL DESCRIPTION: 122.25 inch diam. Titan IIIC SRM nose, 17° half angle
cone with 23.38 inch radius spherical nose cap. (nose cut short for sting
when model reversed for 90° to 190° α range).

Scale = 0.007361

DRAWING NUMBER: MSFC 80M32624

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>140.04 in.</u>	<u>1.031 in.</u>	_____
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Fineness Ratio	<u>1.045</u>	<u>1.045</u>	_____
Area			
Max. Cross-Sectional	<u>11,734 in.²</u>	<u>0.636 in.²</u>	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	<u>11,734 in.²</u>	<u>0.636 in.²</u>	_____

TABLE IV. (Continued)

MODEL COMPONENT: BODY - B

GENERAL DESCRIPTION: 122.25 inch diameter Titan IIIC SRM body. (contains a removable aft section to facilitate installation of top mounted sting adapter 118 for α 's 90° to 120°).

Scale = 0.007361

DRAWING NUMBER: MSFC 80M42653, 80M32621, 80M32624, and 80M42655

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length -	<u>794.2 in.</u>	<u>5.845 in.</u>	_____
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Fineness Ratio	<u>6.500</u>	<u>6.500</u>	_____
Area			
Max. Cross-Sectional	<u>11.734 in.²</u>	<u>0.636 in.²</u>	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	<u>11.734 in.²</u>	<u>0.636 in.²</u>	_____

TABLE IV. (Continued)

MODEL COMPONENT: BASE - E

GENERAL DESCRIPTION: 122.25 inch diameter SRM base with engine shroud and nozzle.

Scale = 0.007361

DRAWING NUMBER: MSFC 80M42655

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>81.00 in.</u>	<u>0.595 in.</u>	_____
Max. Width	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Max. Depth	<u>122.25 in.</u>	<u>0.900 in.</u>	_____
Fineness Ratio	<u>.661</u>	<u>.661</u>	_____
Area			
Max. Cross-Sectional	<u>11,734 in.²</u>	<u>.636 in.²</u>	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	<u>11,734 in.²</u>	<u>.636 in.</u>	_____

TABLE IV. (CONTINUED)

MODEL COMPONENT: TVC TANK - T

GENERAL DESCRIPTION: 42 inch diameter cylindrical TVC tank with a 17° half angle, spherically blunted conical nose and feed line to engine shroud.

Scale = 0.007361

DRAWING NUMBER: MSFC 80M32623

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>336.50 in.</u>	<u>2.472 in.</u>	_____
Max. Width	<u>42.00 in.</u>	<u>0.306 in.</u>	_____
Max. Depth	<u>42.00 in.</u>	<u>0.306 in.</u>	_____
Fineness Ratio	<u>8.09</u>	<u>8.09</u>	_____
Area			
Max. Cross-Sectional	<u>1384.74 in.²</u>	<u>0.0735 in.²</u>	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	<u>1384.74 in.²</u>	<u>0.0735 in.²</u>	_____

TABLE IV. (Concluded)

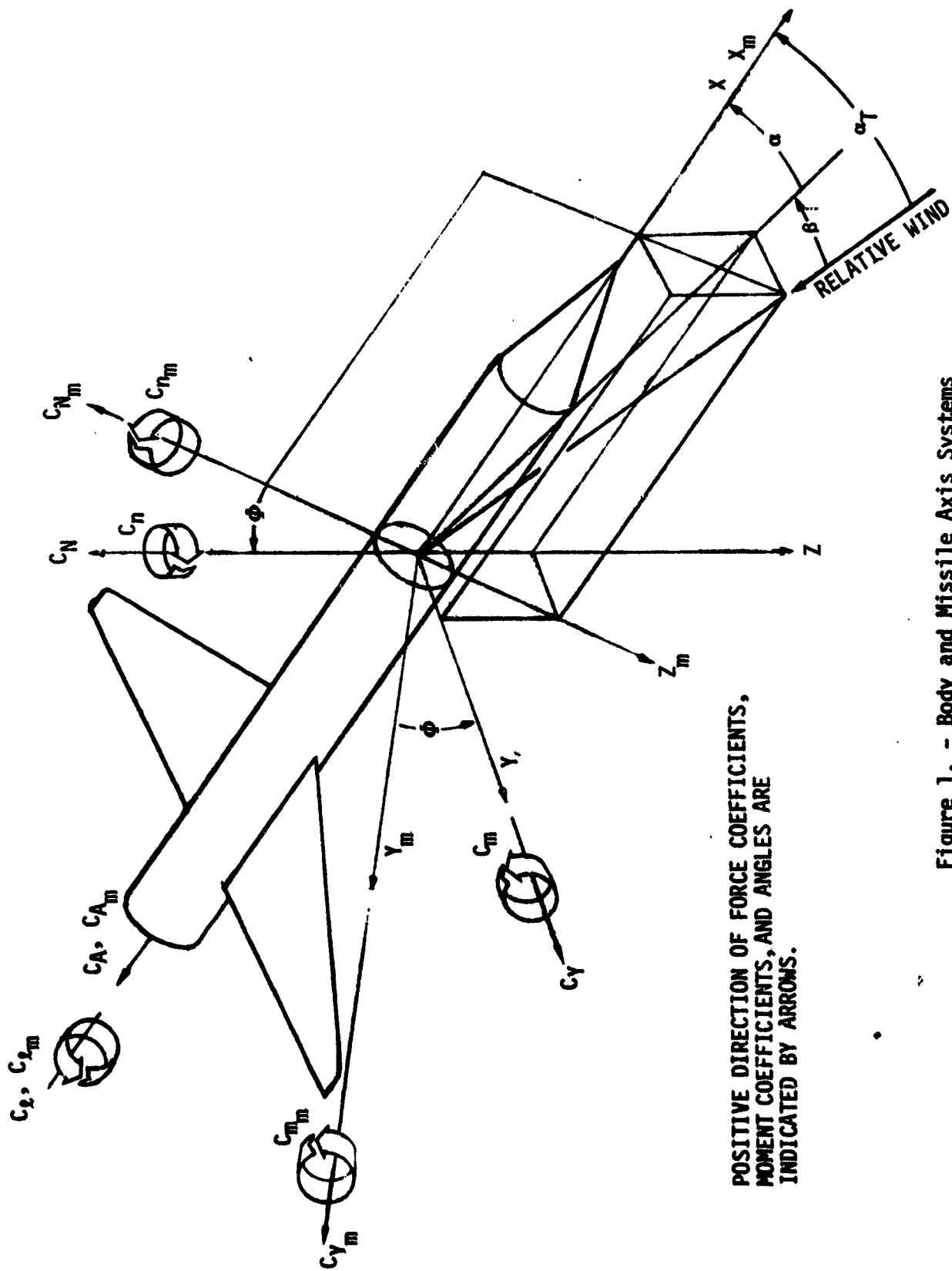
MODEL COMPONENT: Protuberances - P

GENERAL DESCRIPTION: Fore and aft core attach arms, ground support arm
fairings, and nose and tail staging rockets.

Scale = 0.007361

DRAWING NUMBER: MSFC 80M42655, 80M32624

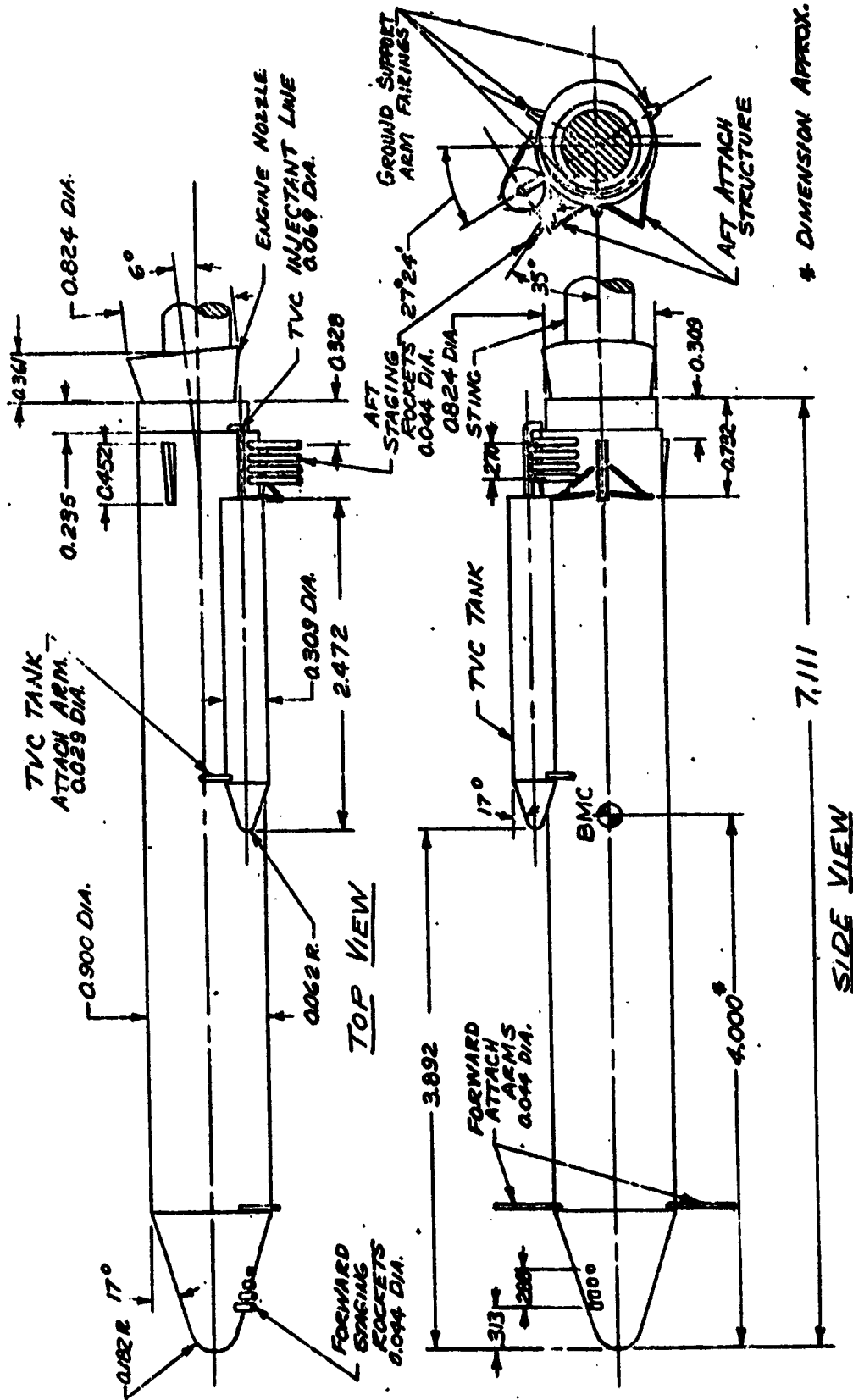
<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	_____	_____	<u>See Figures</u>
Max. Width	_____	_____	_____
Max. Depth	_____	_____	_____
Fineness Ratio	_____	_____	_____
Area			
Max. Cross-Sectional	_____	_____	_____
Planform	_____	_____	_____
Wetted	_____	_____	_____
Base	_____	_____	_____



POSITIVE DIRECTION OF FORCE COEFFICIENTS,
MOMENT COEFFICIENTS, AND ANGLES ARE
INDICATED BY ARROWS.

Figure 1. - Body and Missile Axis Systems

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR



* DIMENSION APPROX.

FIGURE 2. - MAJOR DIMENSIONS OF TITAN III C SEM MODEL

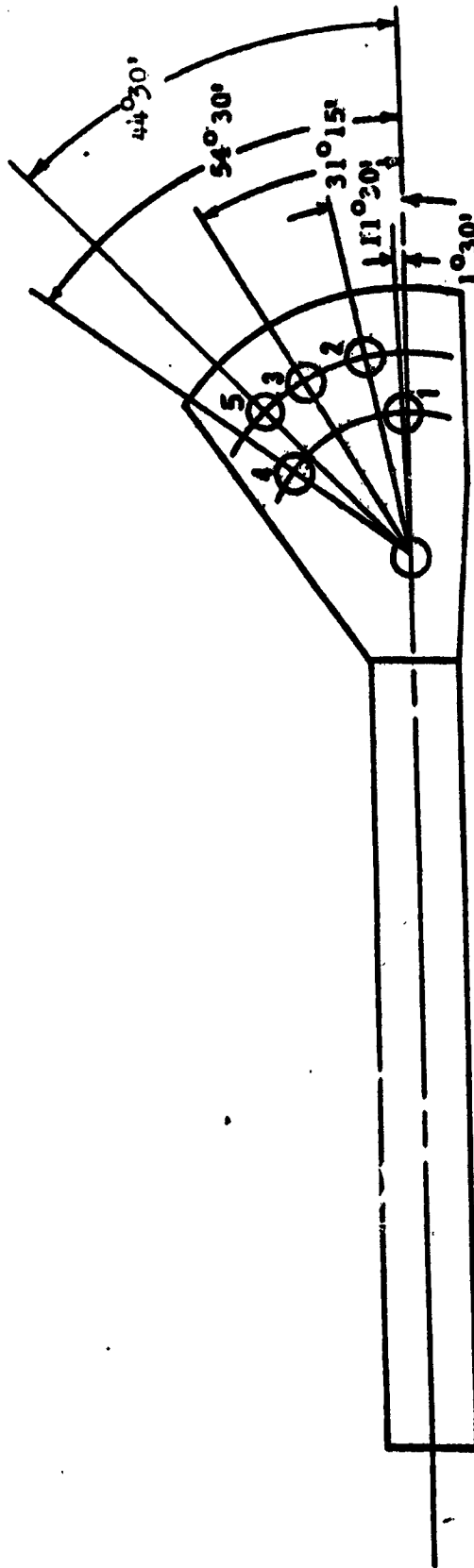
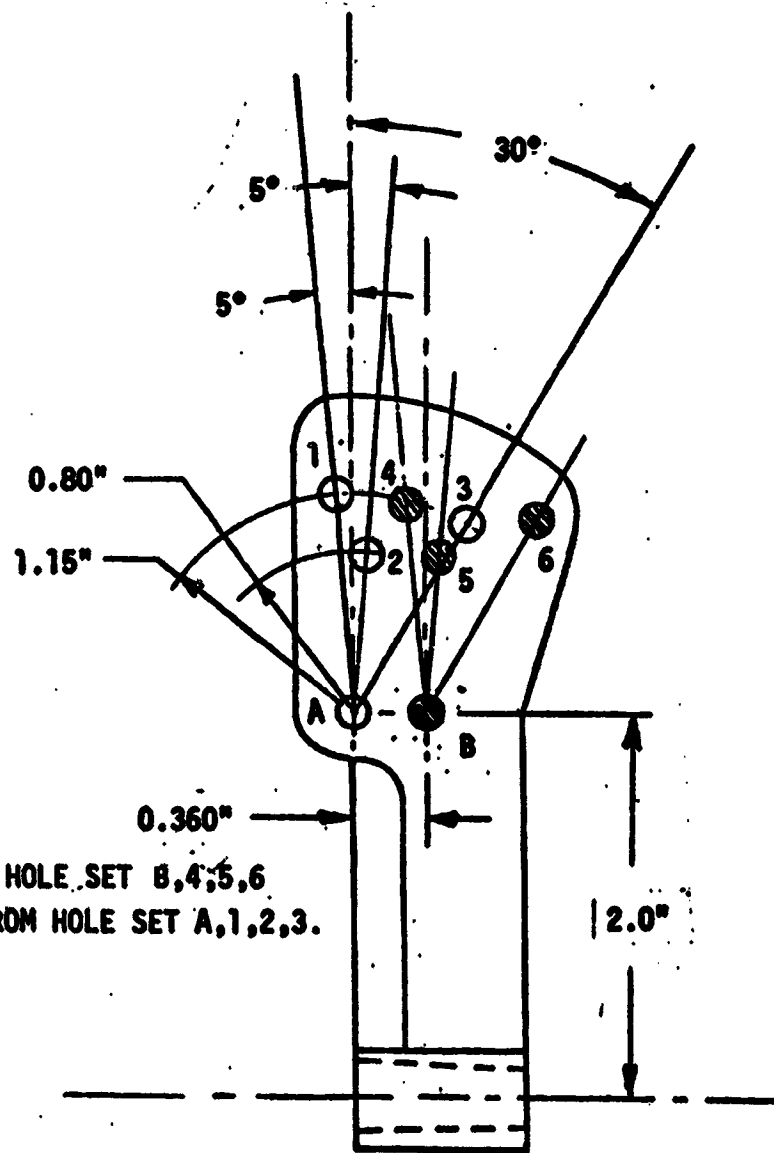


FIGURE 3. - BALANCE ADAPTER 113 (FROM NSFC DWG. NO. 80M42541)

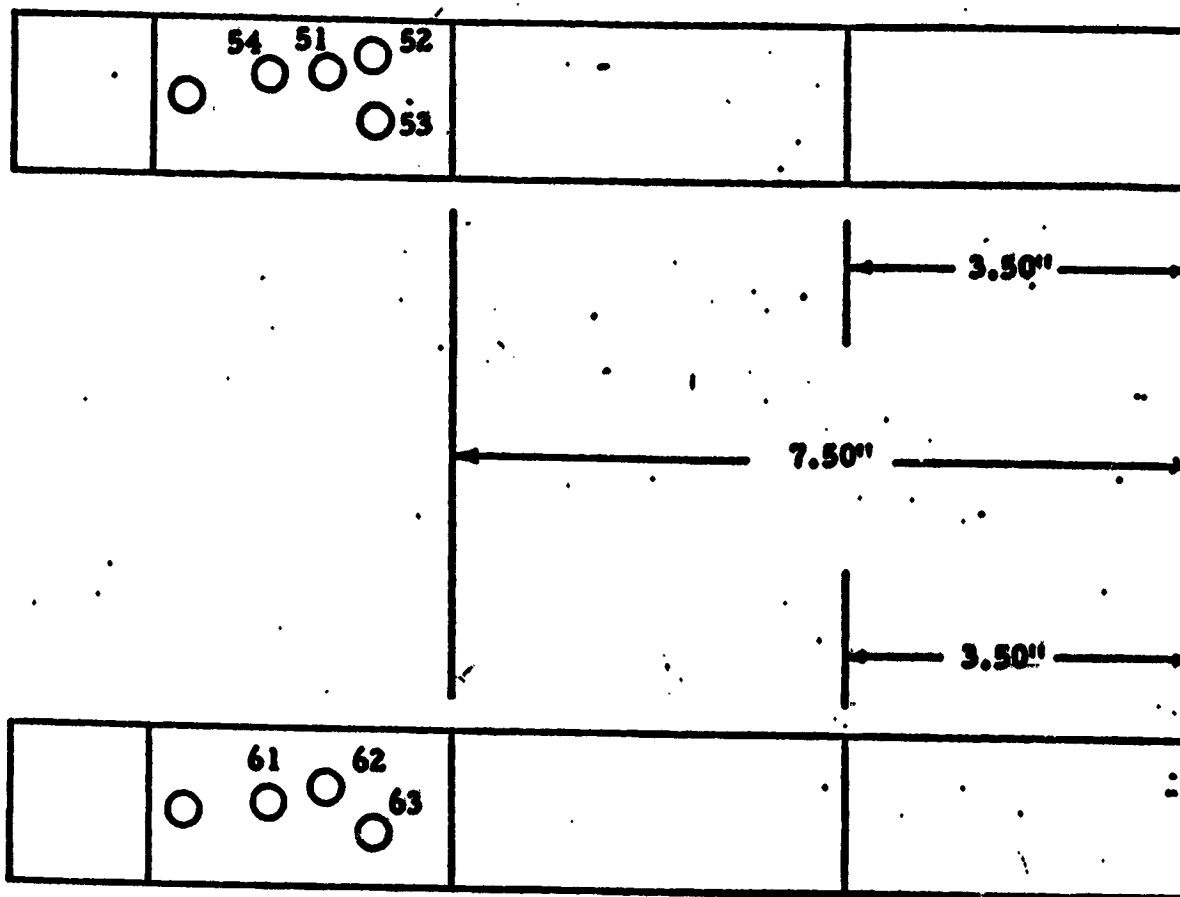


NOTE: ALTERNATE HOLE SET B,4;5,6
 SHIFTED 0.360" FROM HOLE SET A,1,2,3.

Holes A-2 and B-5 Radius = 0.80"
 Holes A-1,3 and B-4;6 Radius = 1.15"

FIGURE 4. - BALANCE ADAPTER 118 (FROM MSFC DWG. 80M42582)

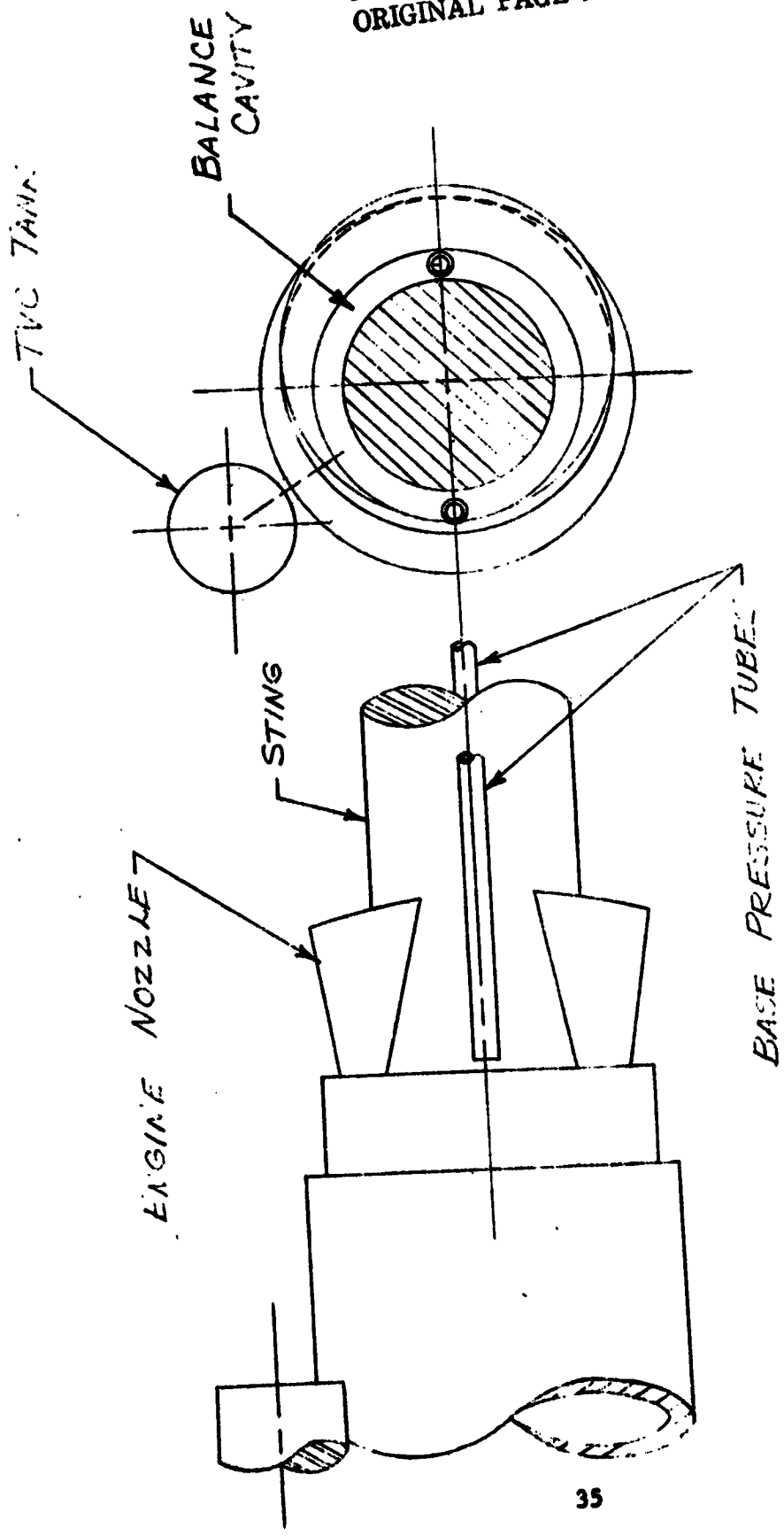
Sting Adapter 1



Sting Adapter 3

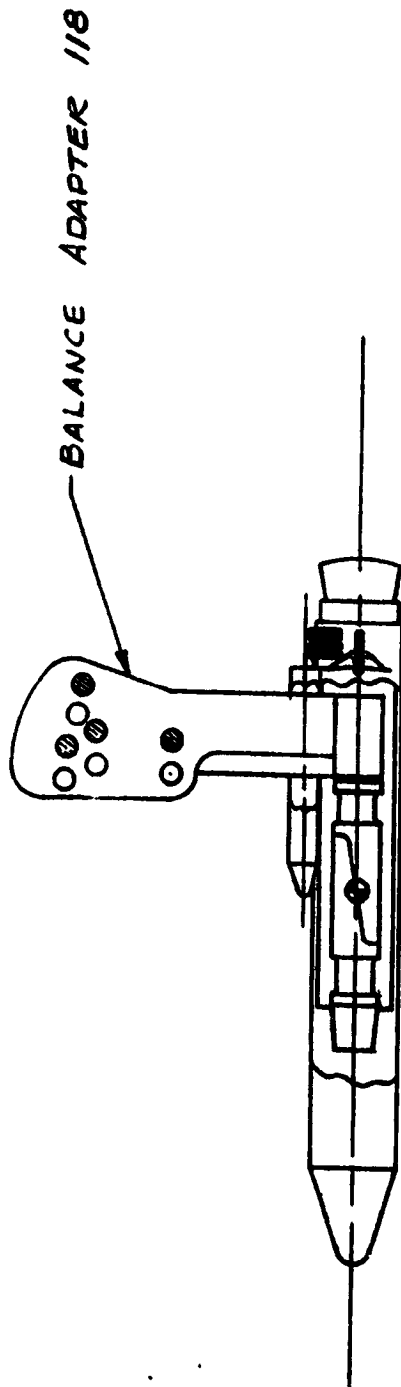
FIGURE 5. - STING ADAPTERS

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

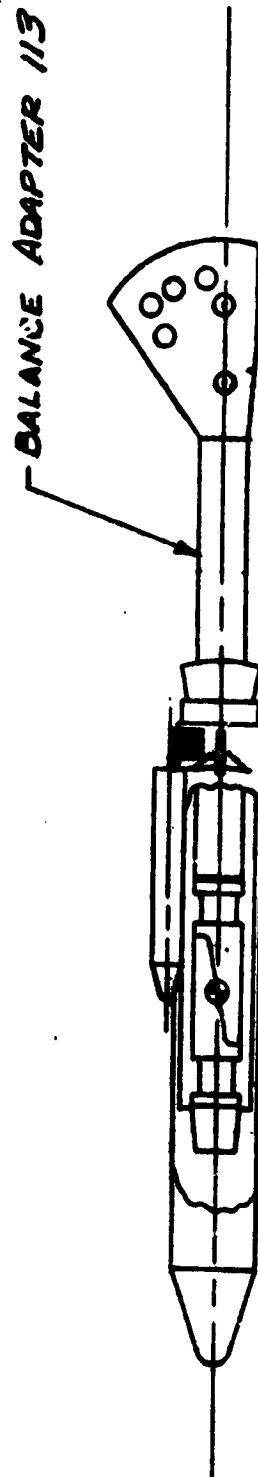


NOTE - TUBE LOCATION
PATTERN ROLLED
WITH MODEL

FIGURE 6. - BASE PRESSURE TUBE LOCATIONS FOR MODEL ROLL OF ZERO DEGREES

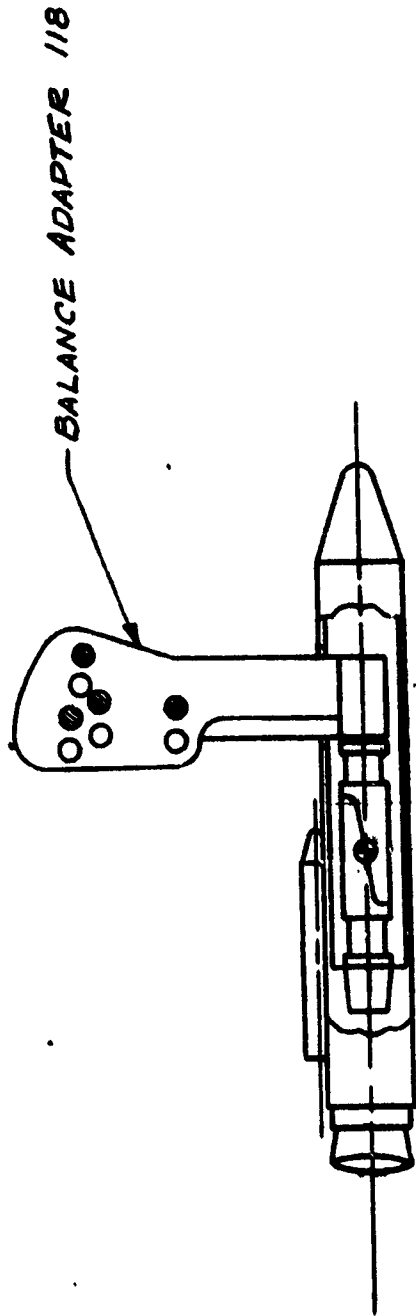


α RANGE = 50° TO 90°

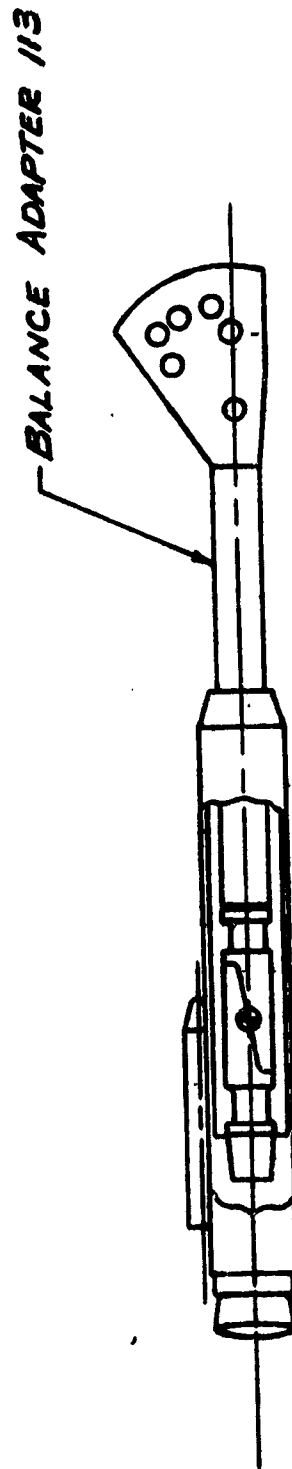


α RANGE = -10° TO 50°

FIGURE 7. - MOUNTING ARRANGEMENTS FOR ANGLE OF ATTACK - 10° TO 190°

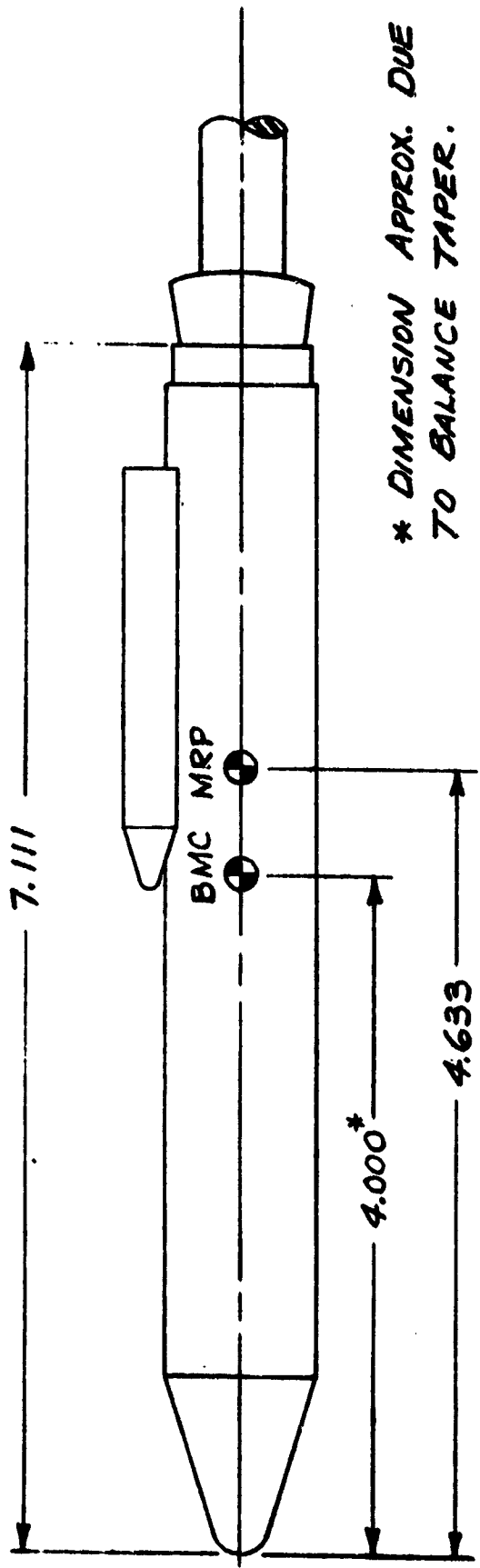


α RANGE = 90° TO 130°



α RANGE = 130° TO 190°

FIGURE 7. - (Concluded)



* DIMENSION APPROX. DUE TO BALANCE TAPER.
 ** CALCULATED DIMENSION

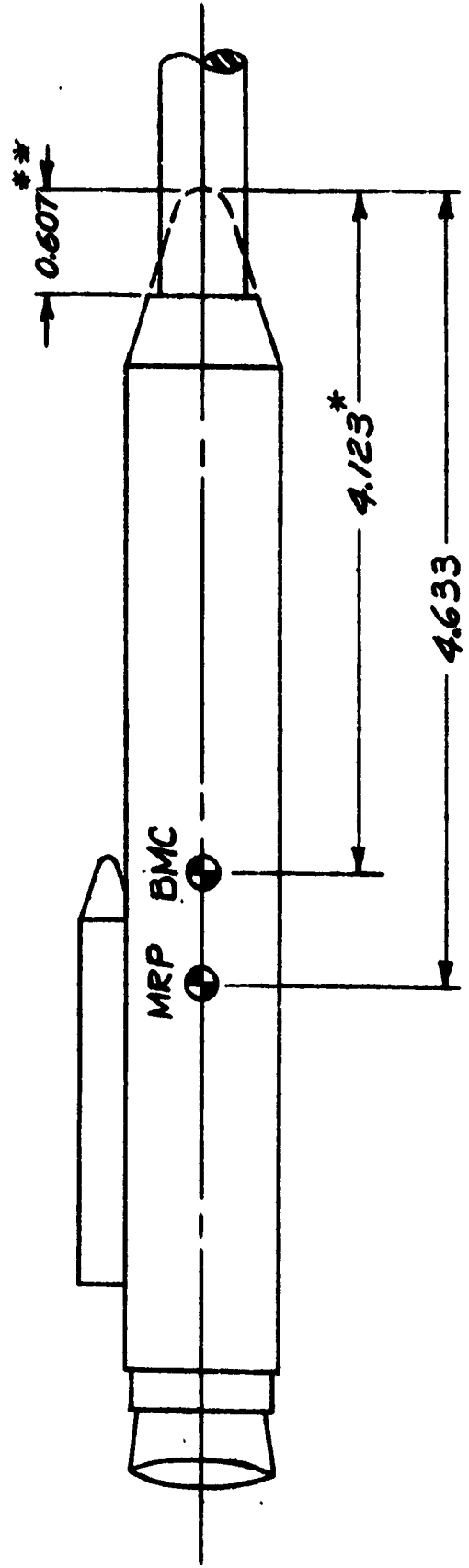


FIGURE 8. - BALANCE MOMENT CENTER AND MOMENT REFERENCE POINT LOCATION

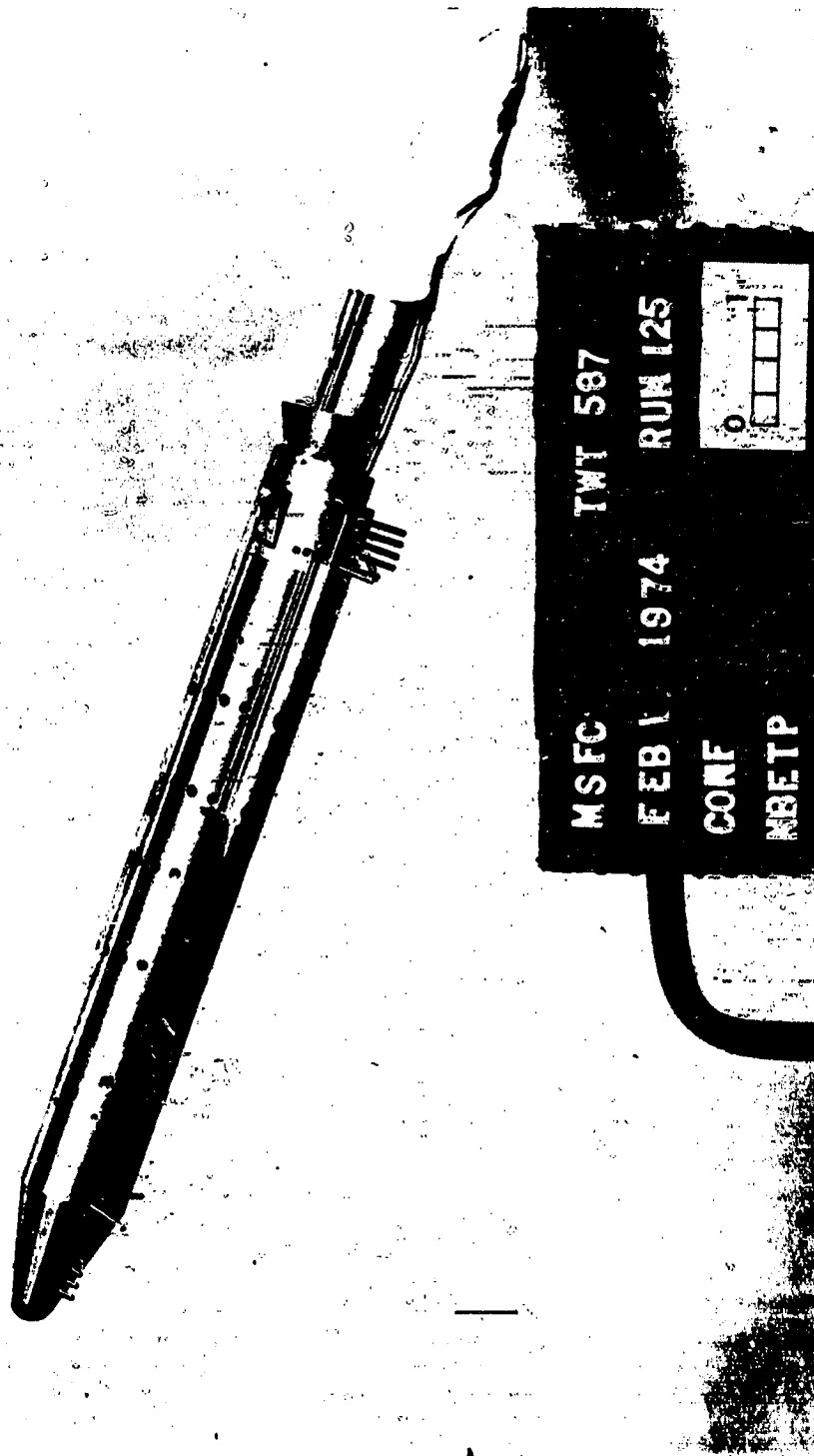


FIGURE 9. PHOTOGRAPH OF MODEL/STING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF -10° TO 50°

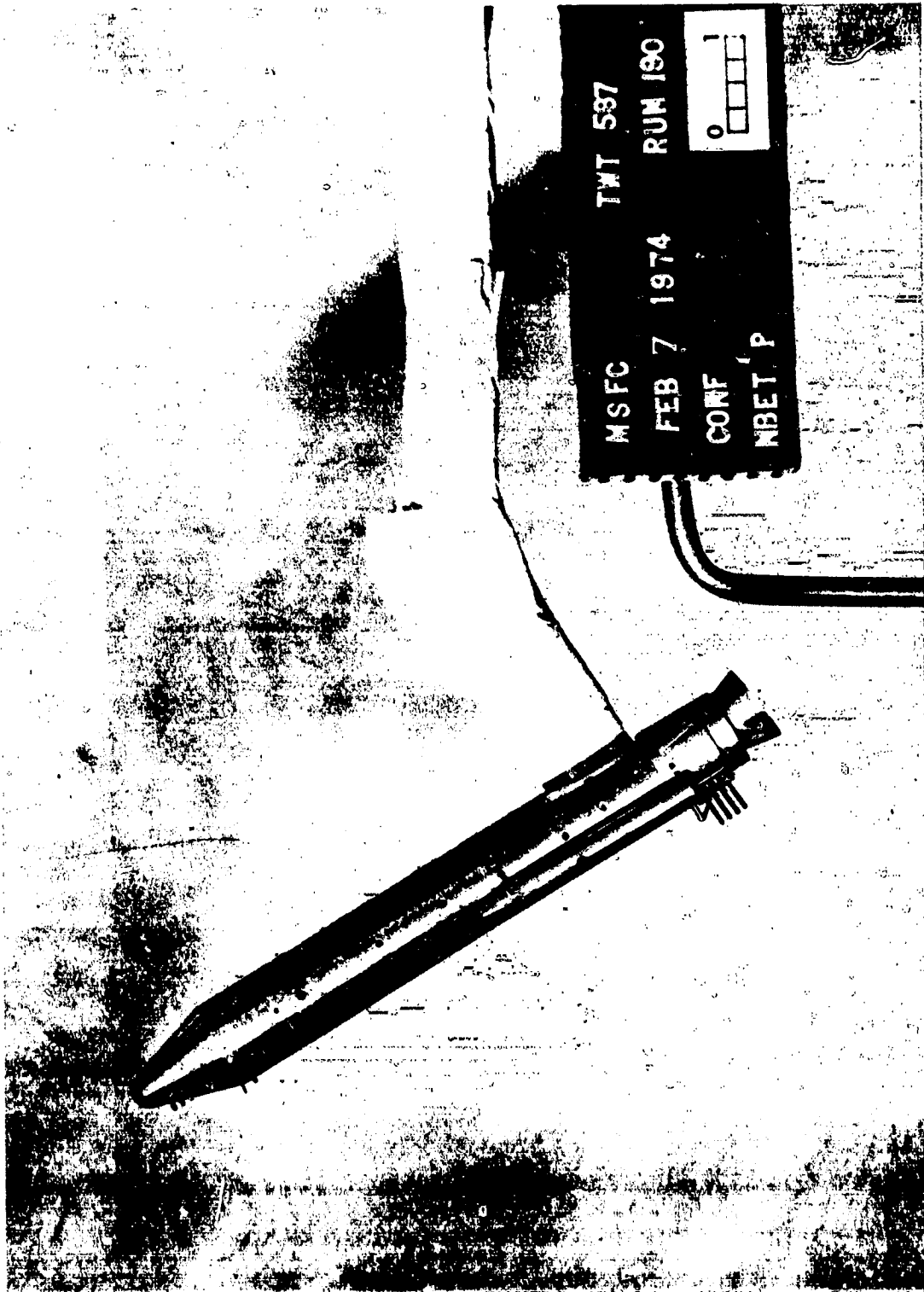


FIGURE 10. PHOTOGRAPH OF MODEL/STING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF 50° TO 90°

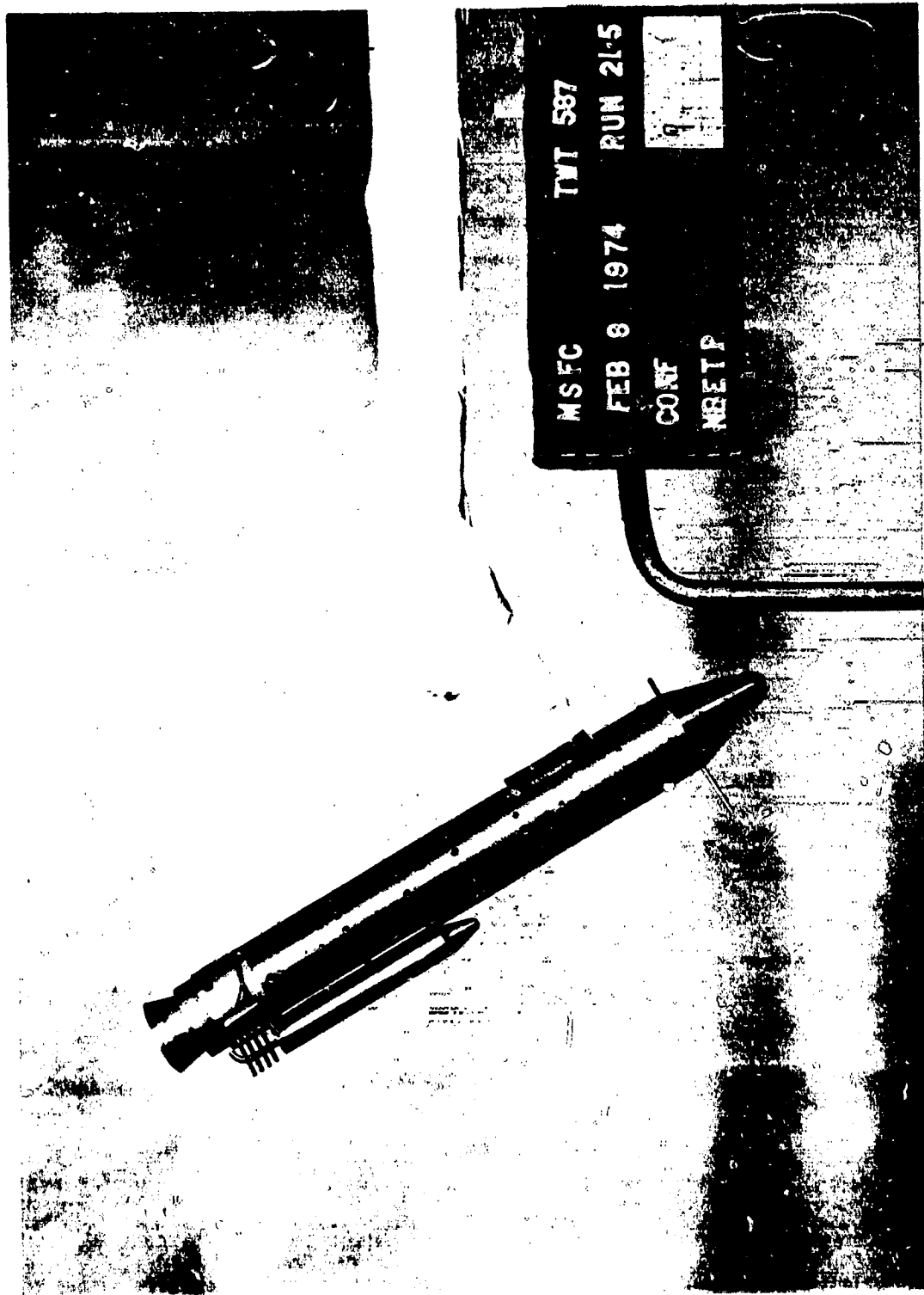


FIGURE 11. PHOTOGRAPH OF MOUNTING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF 90° TO 130°

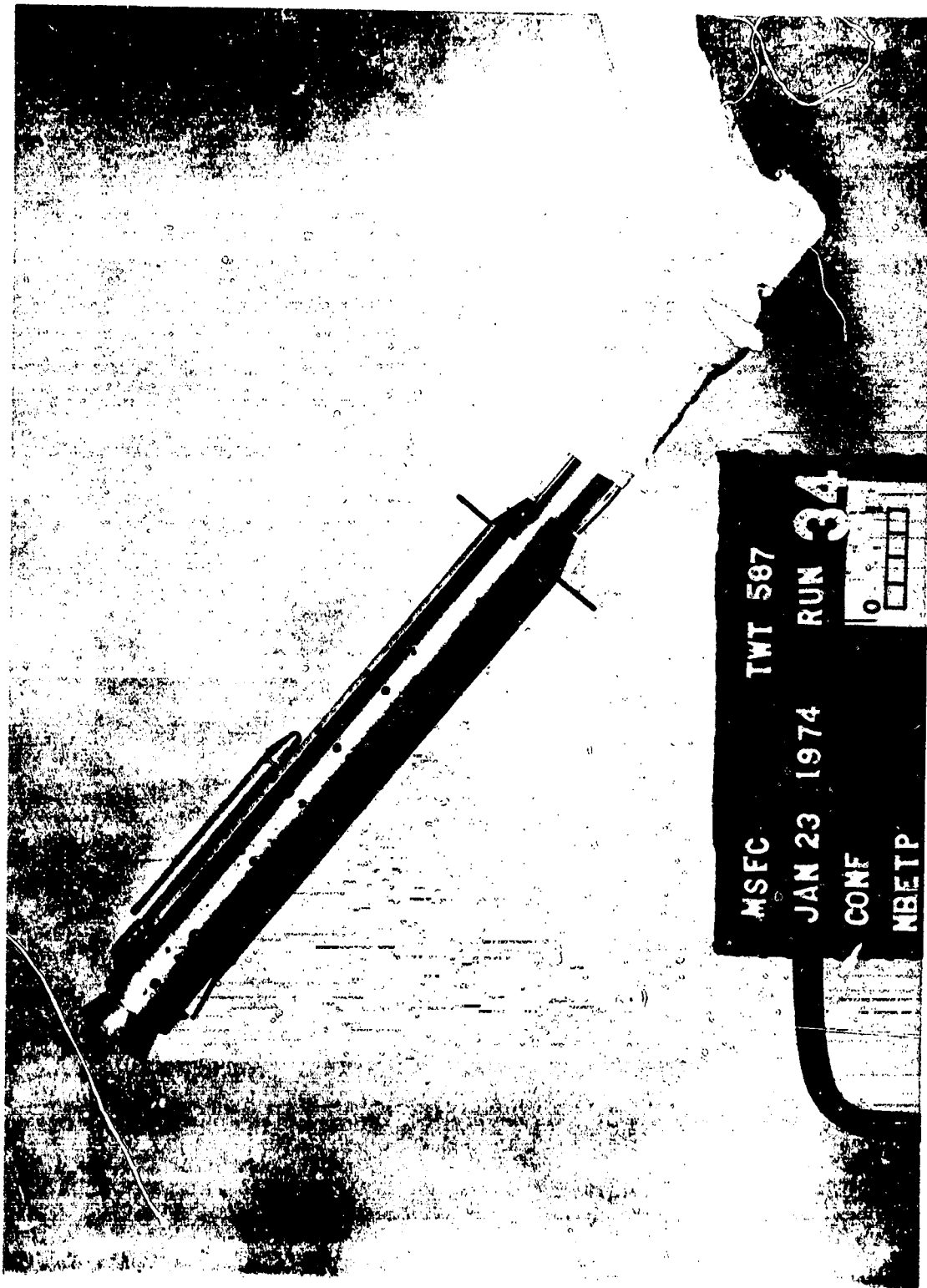


FIGURE 12. PHOTOGRAPH OF MODEL/SITING CONFIGURATION USED FOR ANGLE OF ATTACK RANGE OF 130° TO 190°

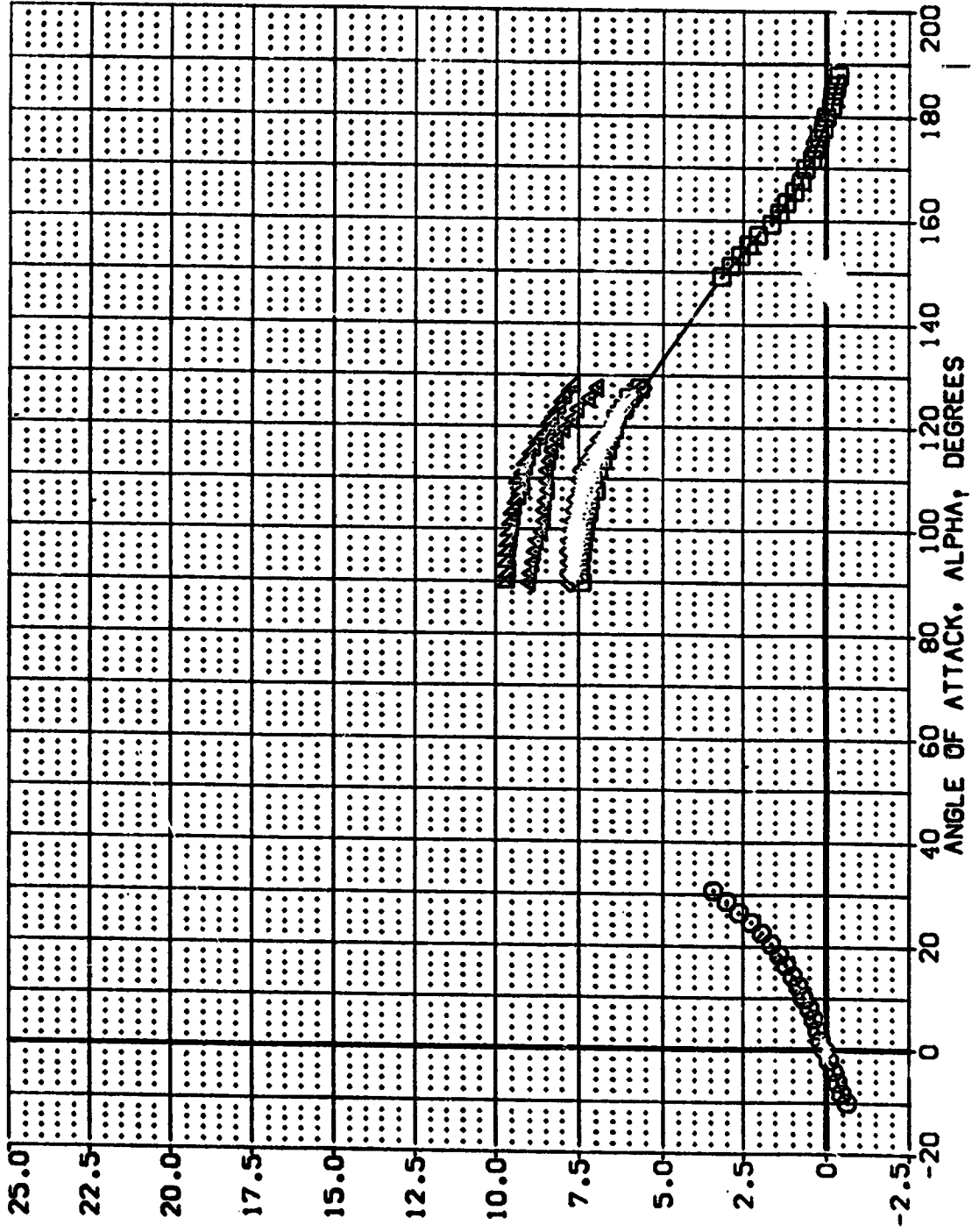
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 (R57A03) M5 C 587(PA4) TITAN III C SRM (NBETP)
 (R57A04) M5 C 587(PA4) TITAN III C SRM (NBETP)
 (R57A05) M5 C 587(PA4) TITAN III C SRM (NBETP)
 (R57A19) M5 C 587(PA4) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .59

PAGE 1

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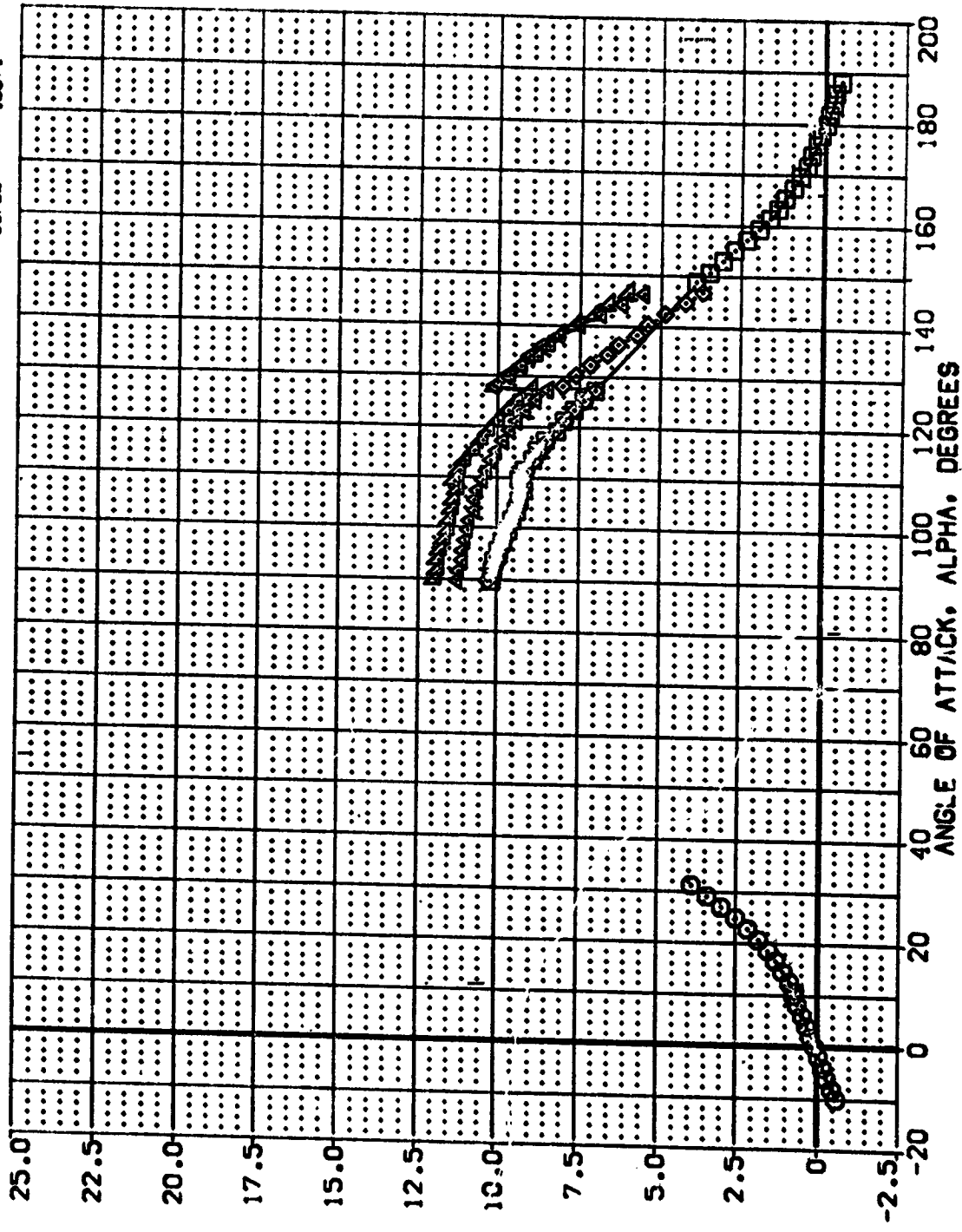
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[R57A21]	MSFC 587(FA4)	TITAN III	C SRM (NBETP)
[R57A20]	MSFC 587(FA4)	TITAN III	C SRM (NBETP)
[R57A19]	MSFC 587(FA4)	TITAN III	C SRM (NBETP)

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MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

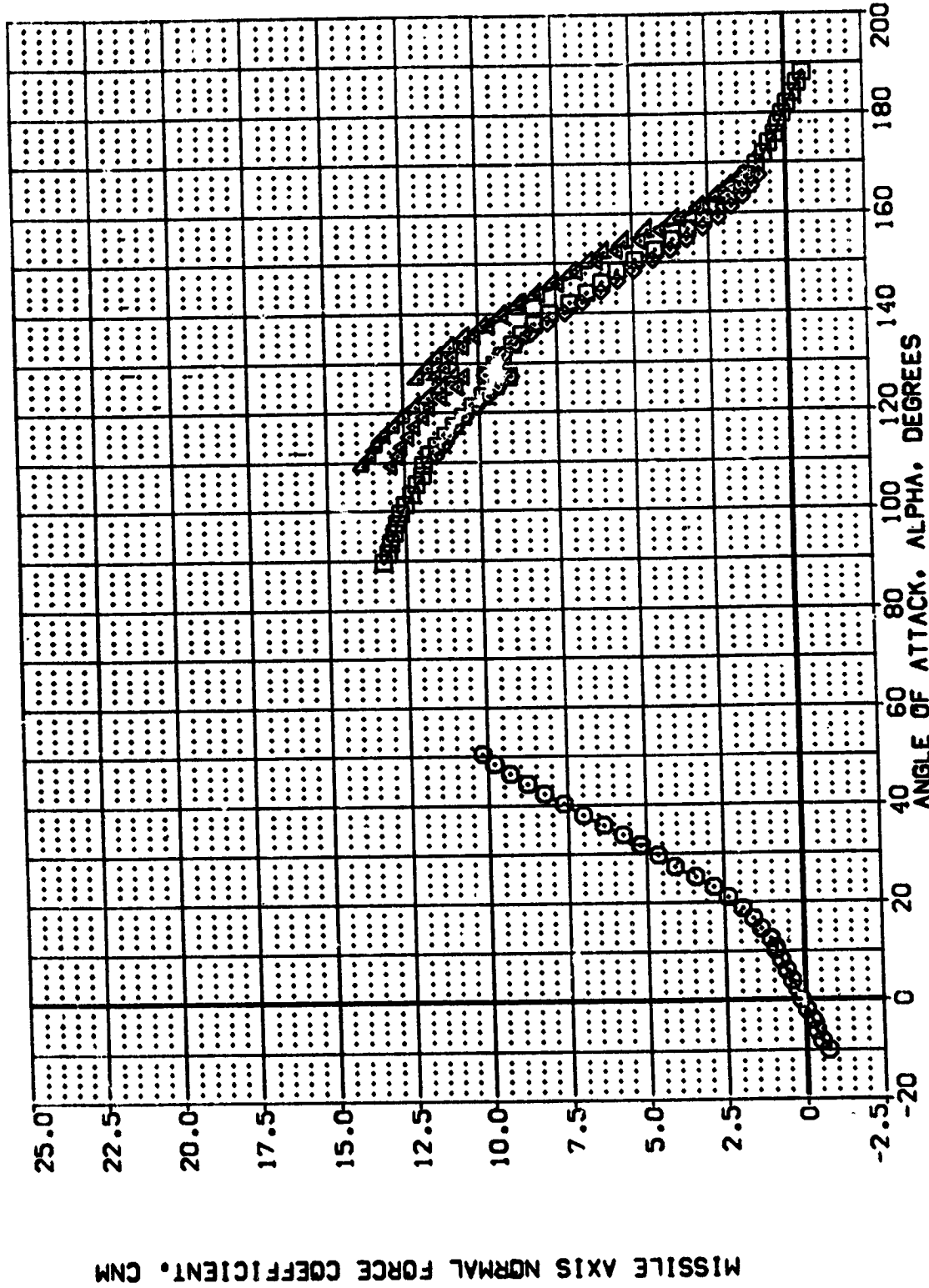
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REFERENCE INFORMATION
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 [R57A20] [MFC 587(F4)] TITAN III C SRM (NBETP)
 [R57A19] [MFC 587(F4)] TITAN III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

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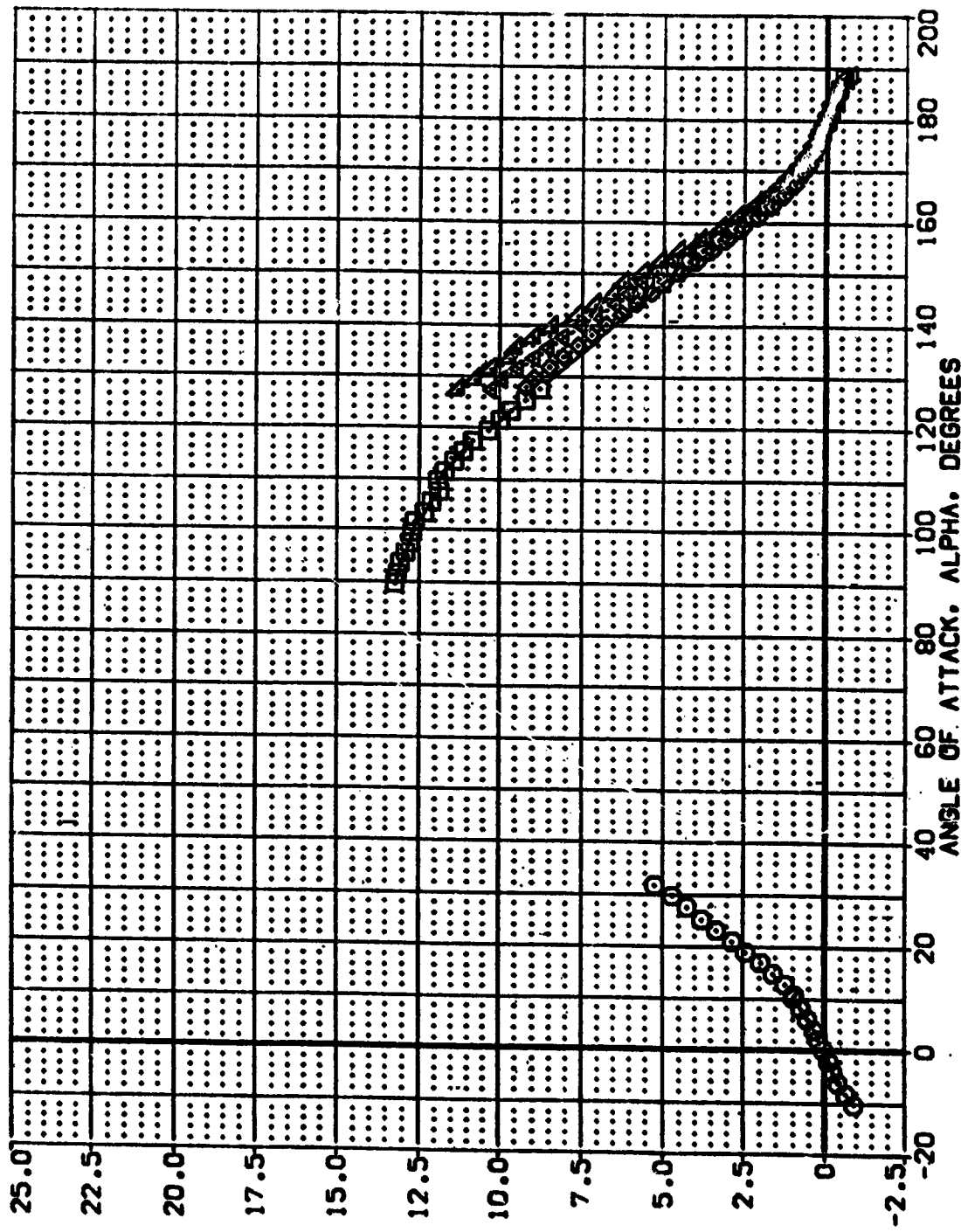
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MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.96

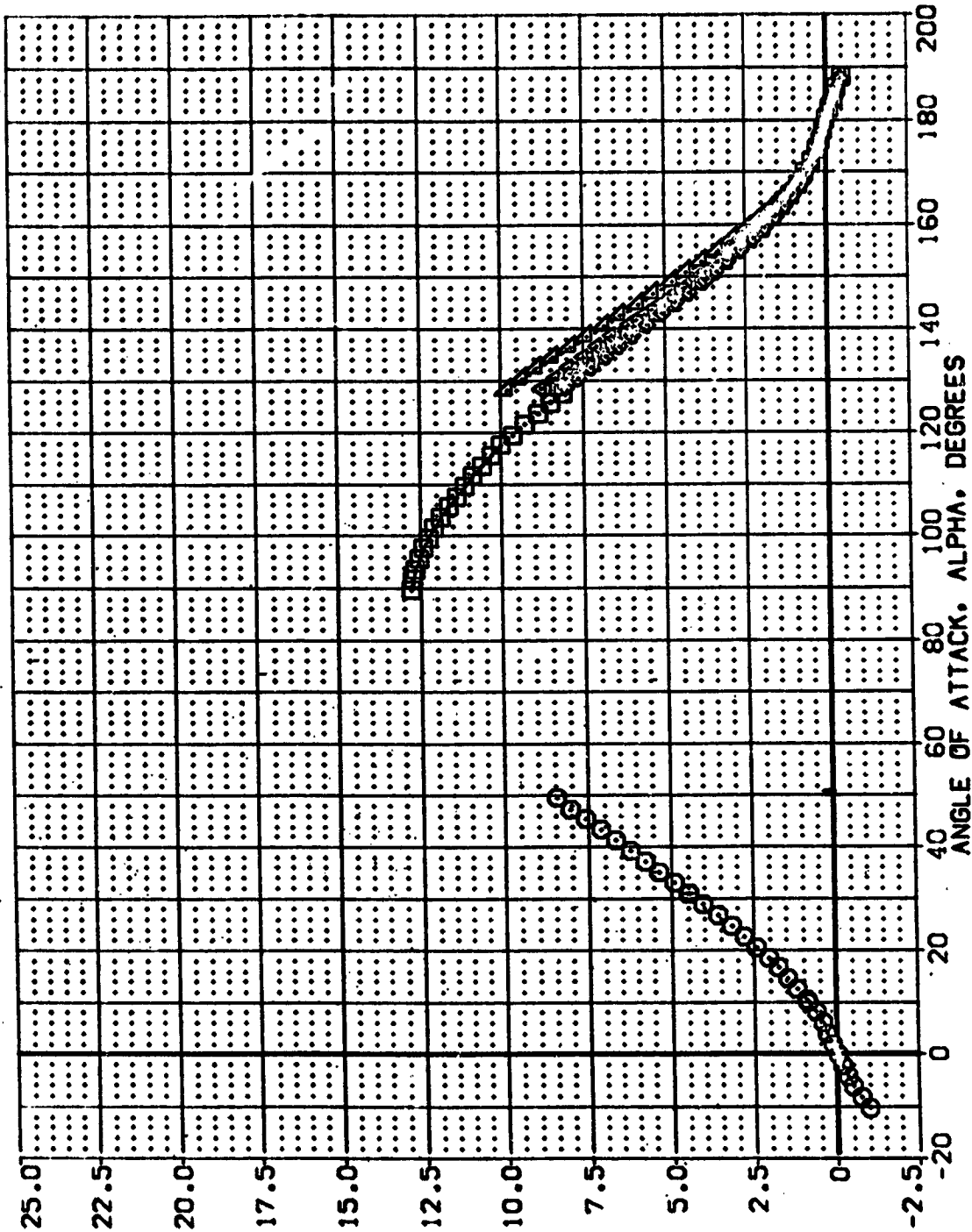


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MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

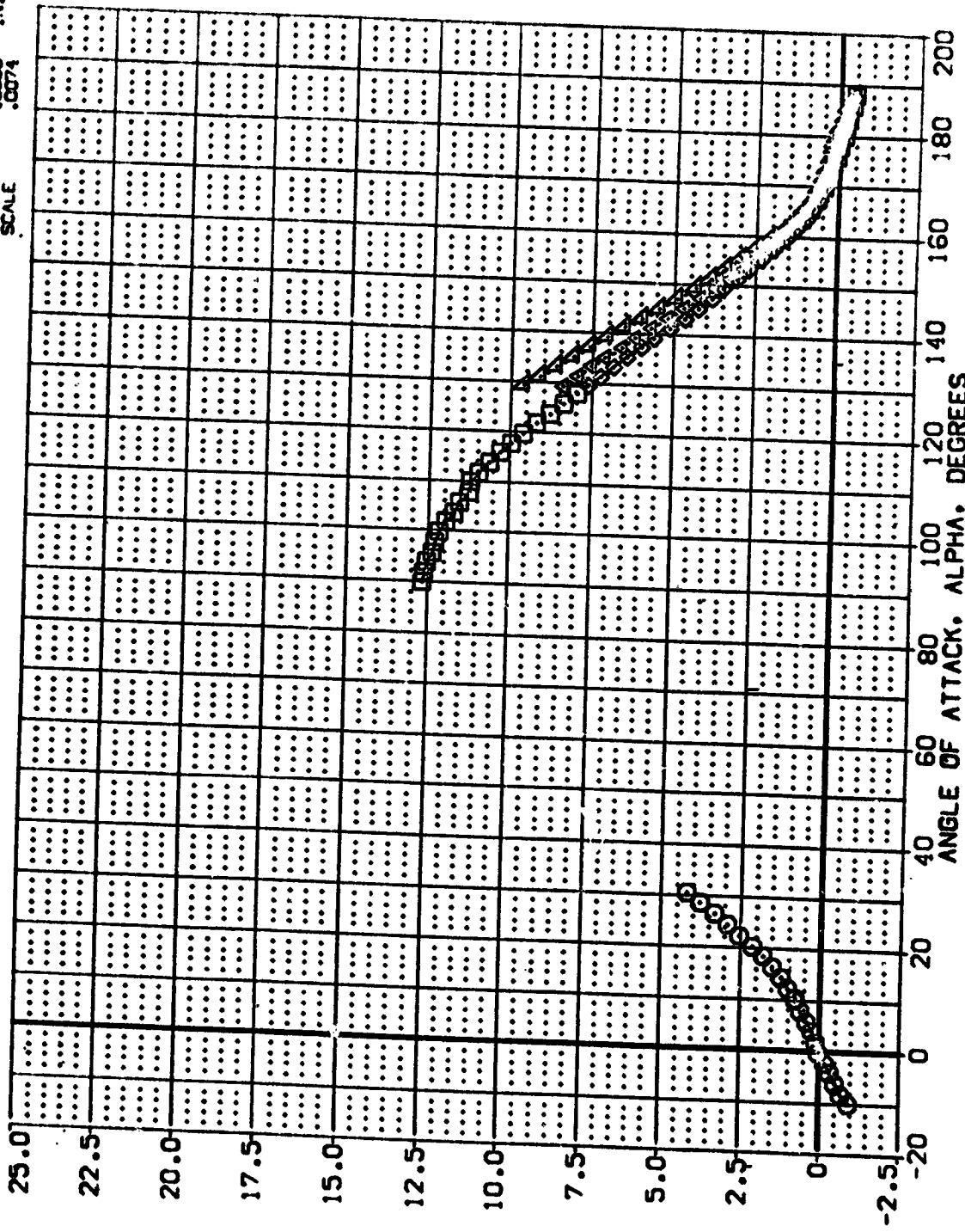
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(C)MACH = 3.48

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MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

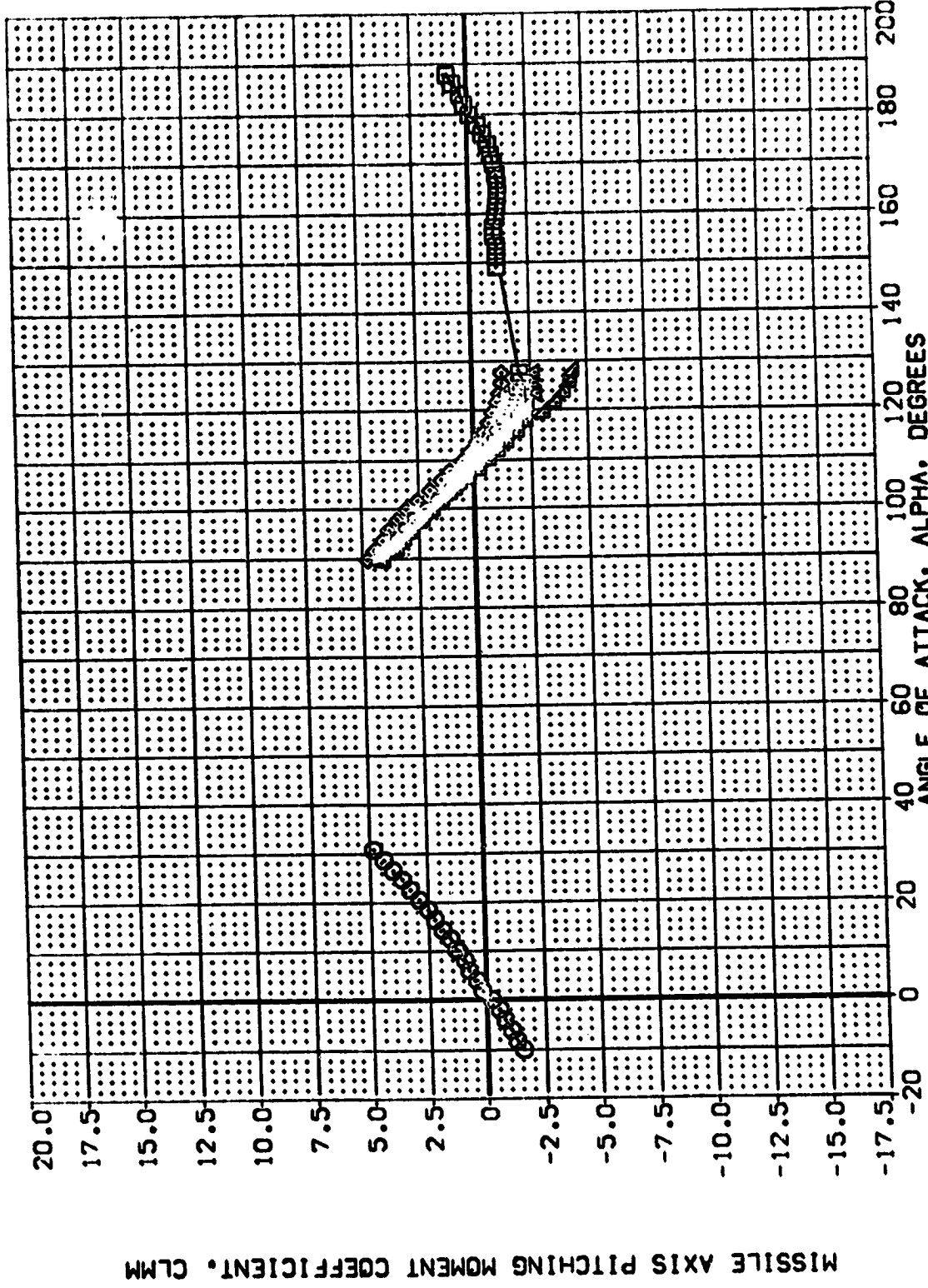
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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

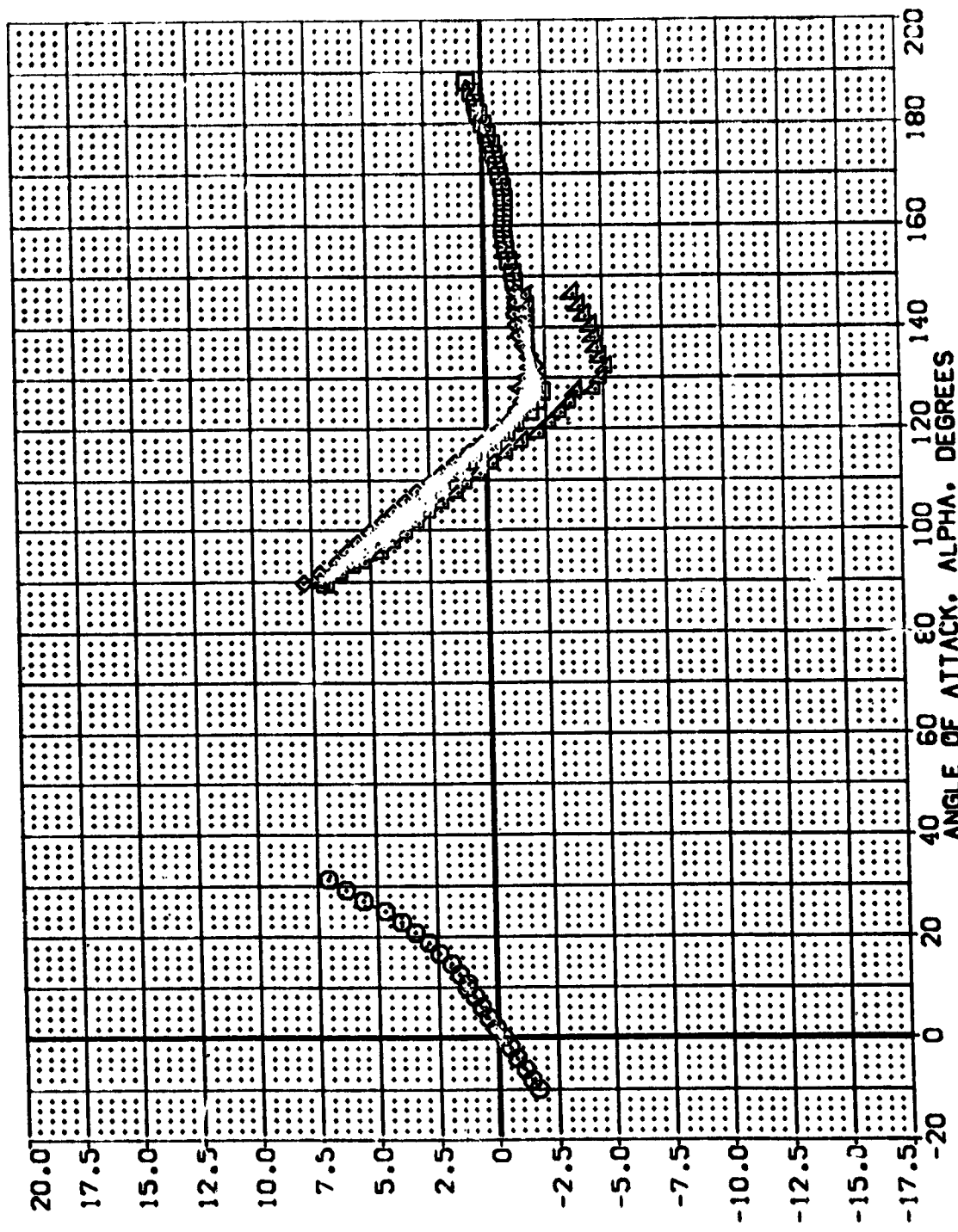
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 [R57A20] X C 587(FA4) TITAN III C SRM (NBETP)
 [R57A19] X C 587(FA4) TITAN III C SRM (NBETP)

MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

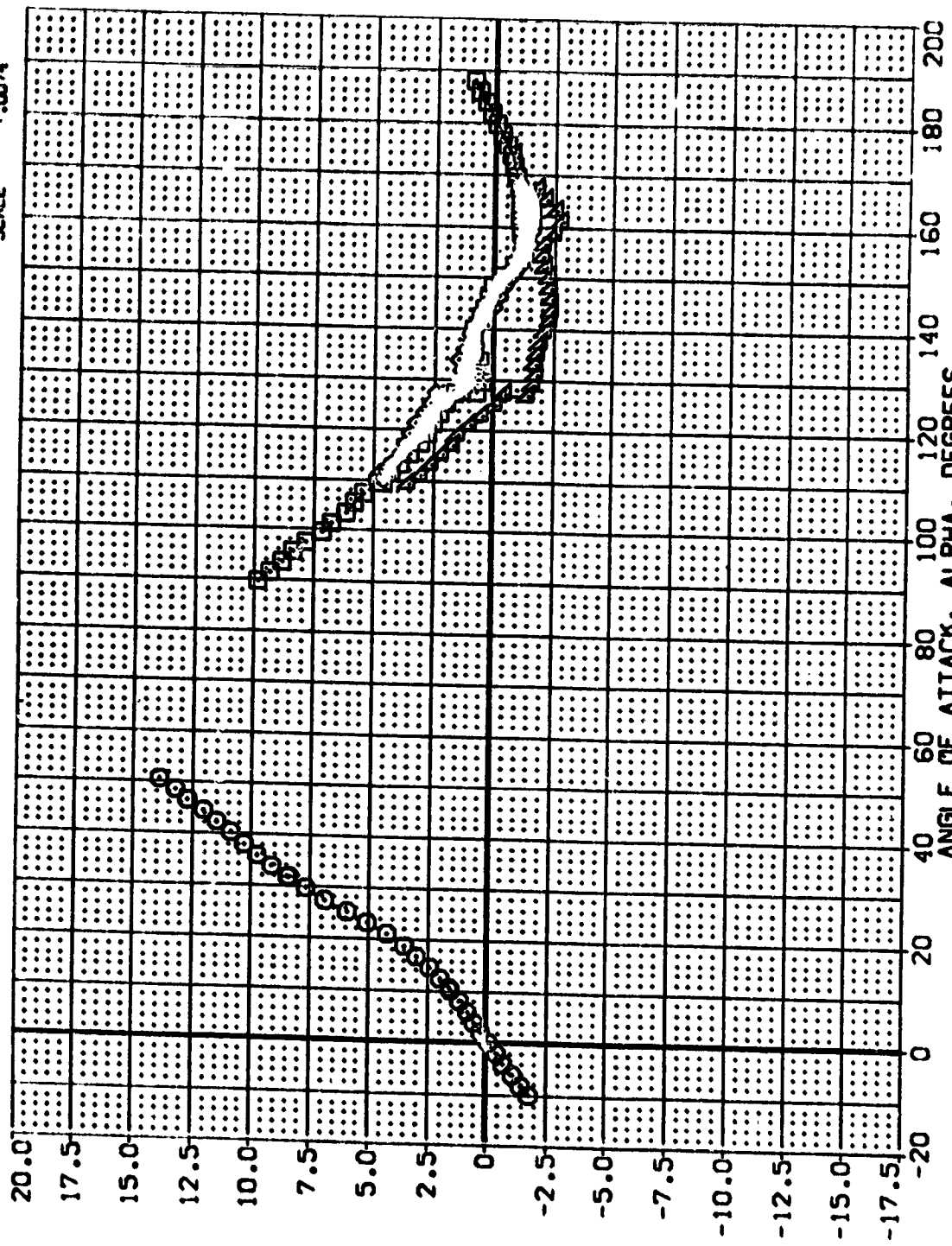


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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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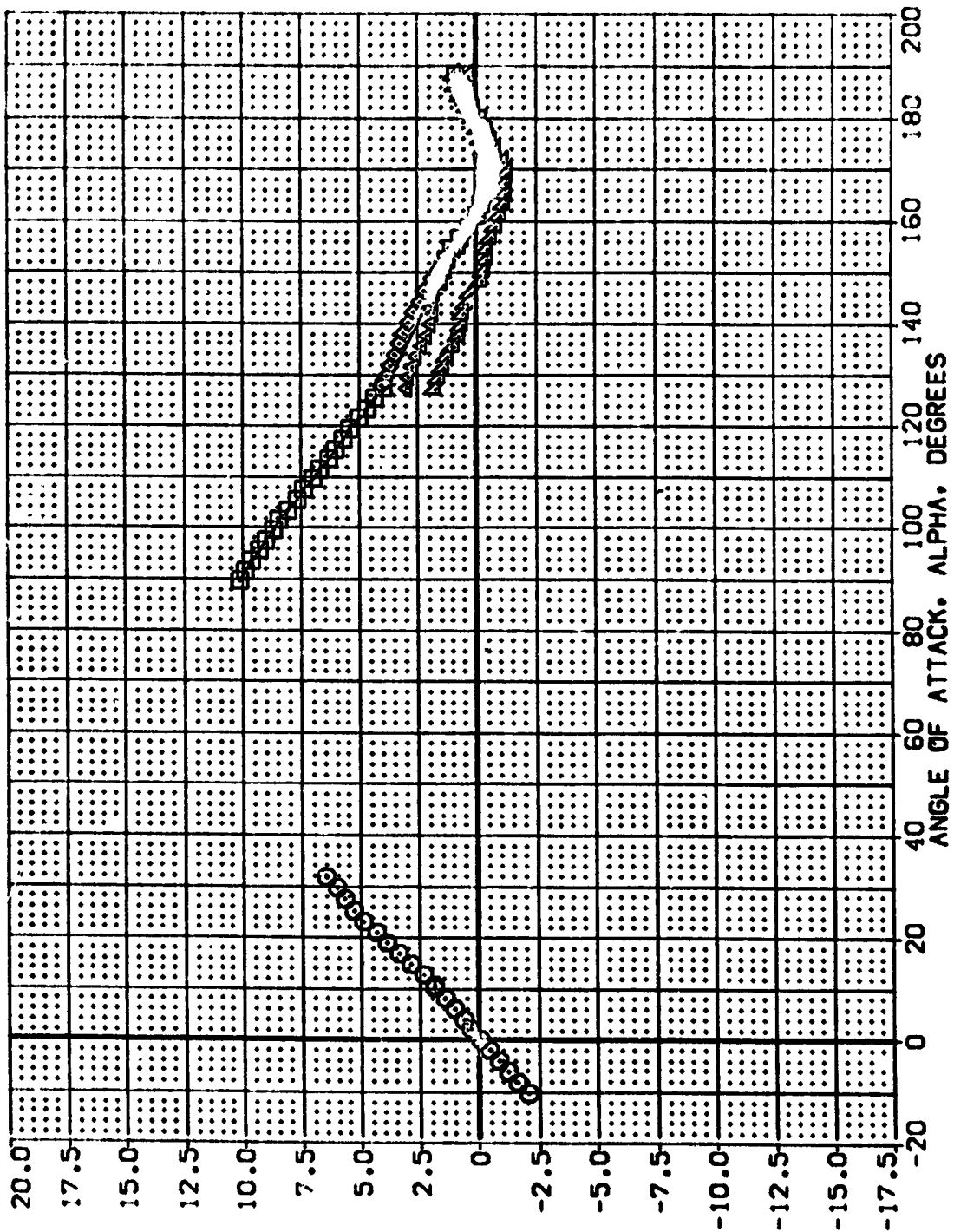
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PHI: .000, .000, 45.000, 90.000, 135.000

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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBE (P))

(C)MACH = 1.96

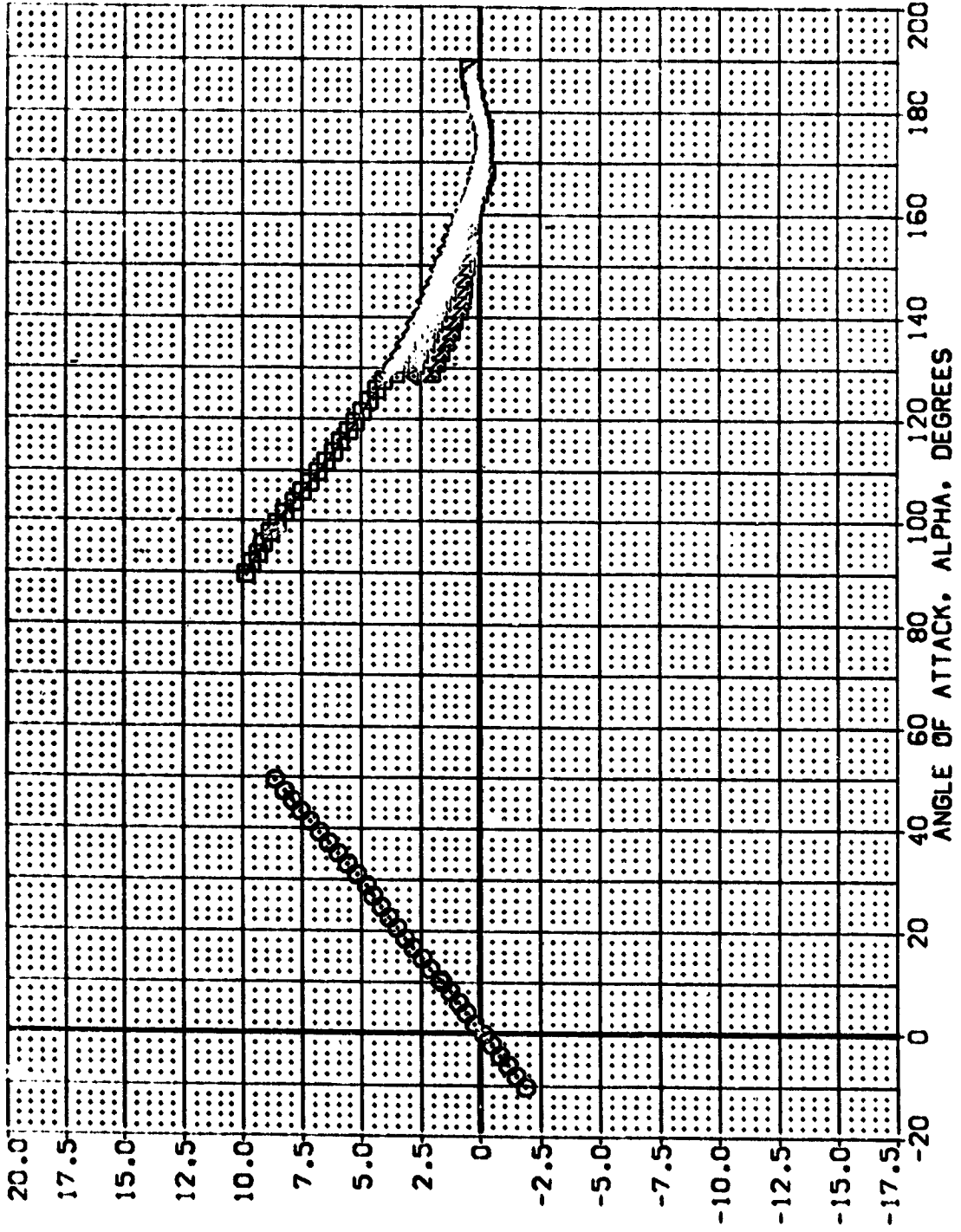


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 X X 587(FA4) TITAN C SRM (NBETP)
 X X 587(FA4) TITAN C SRM (NBETP)
 X X 587(FA4) TITAN C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

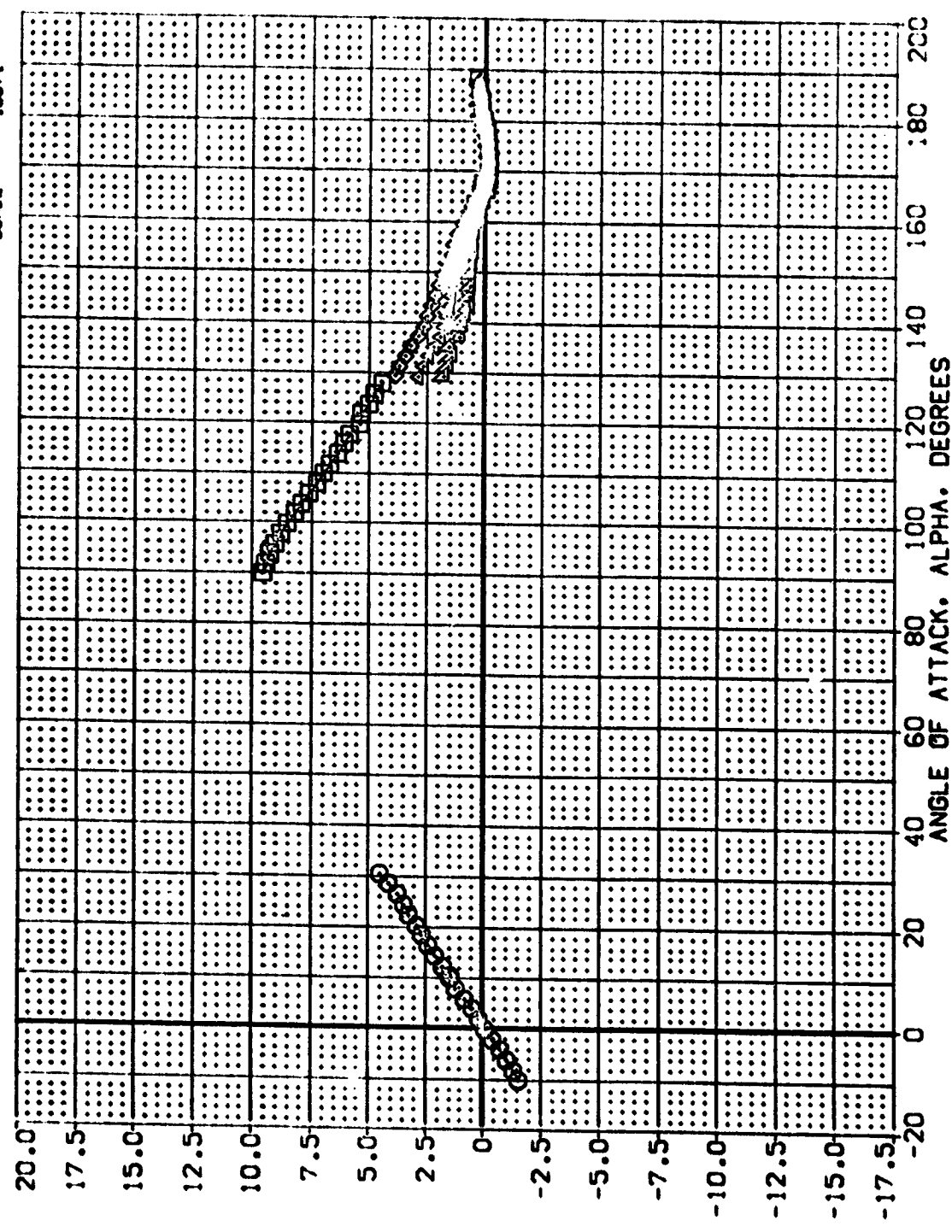
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BETA PH)
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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

PAGE : 2

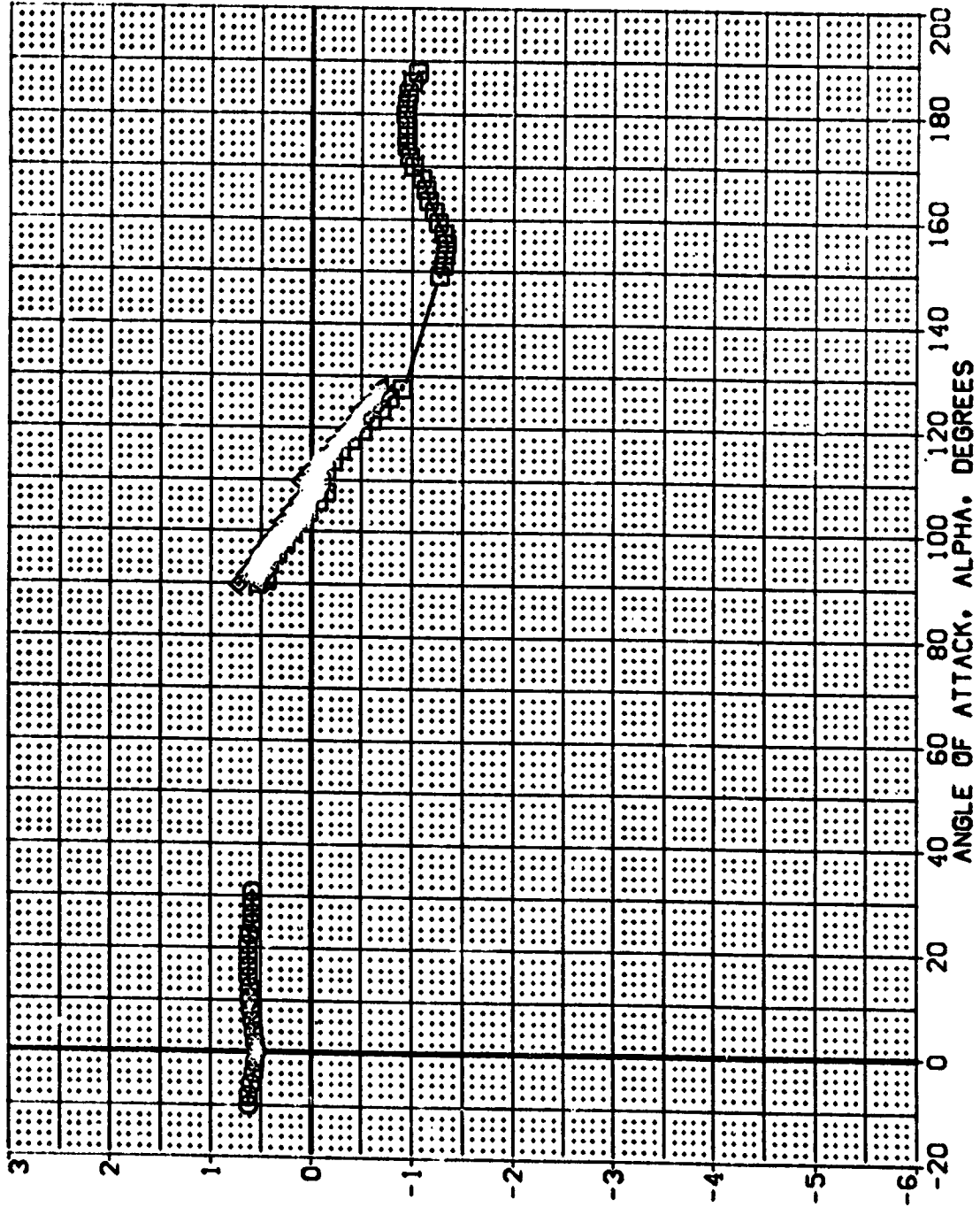


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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBE TP)

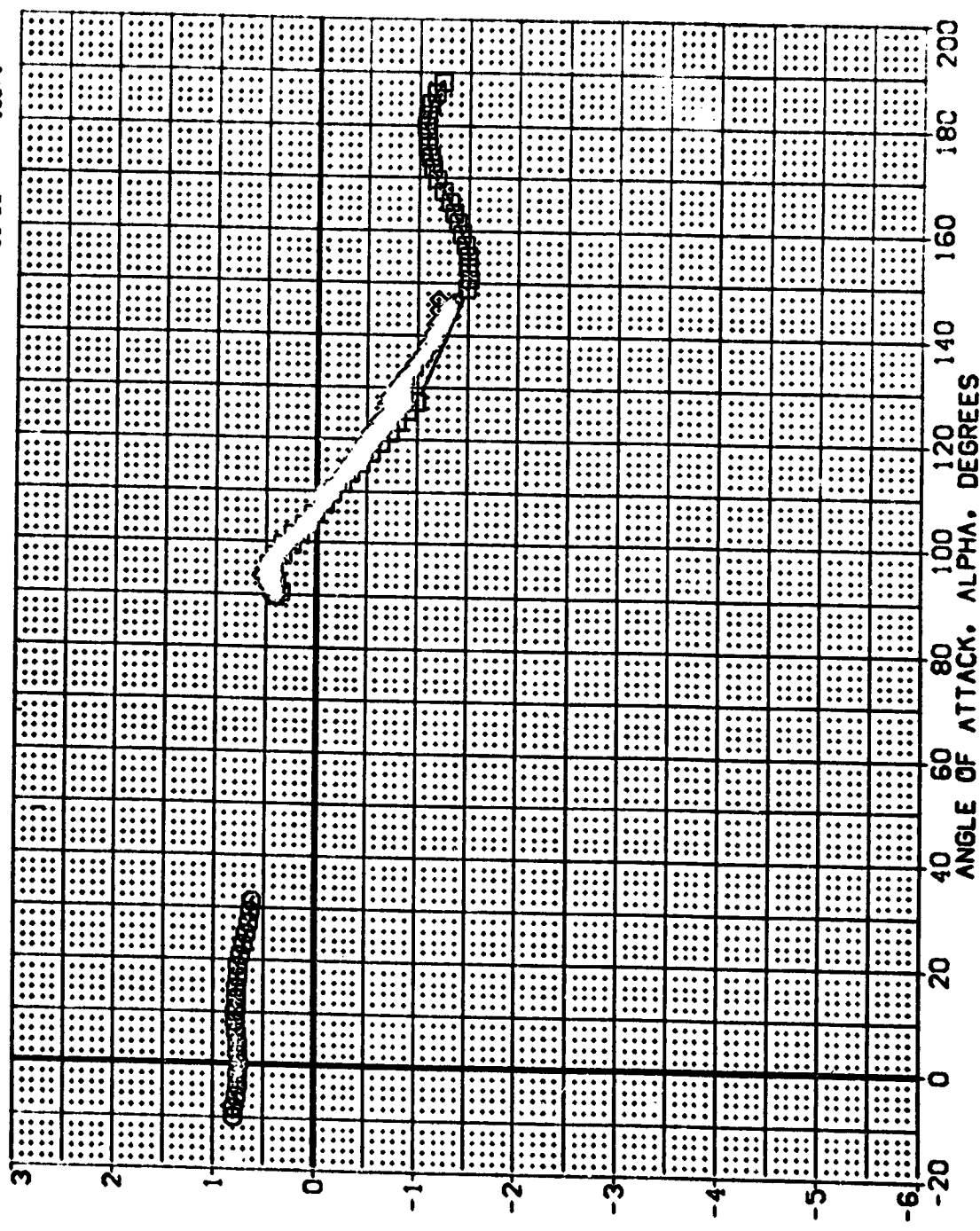
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BETA PH
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

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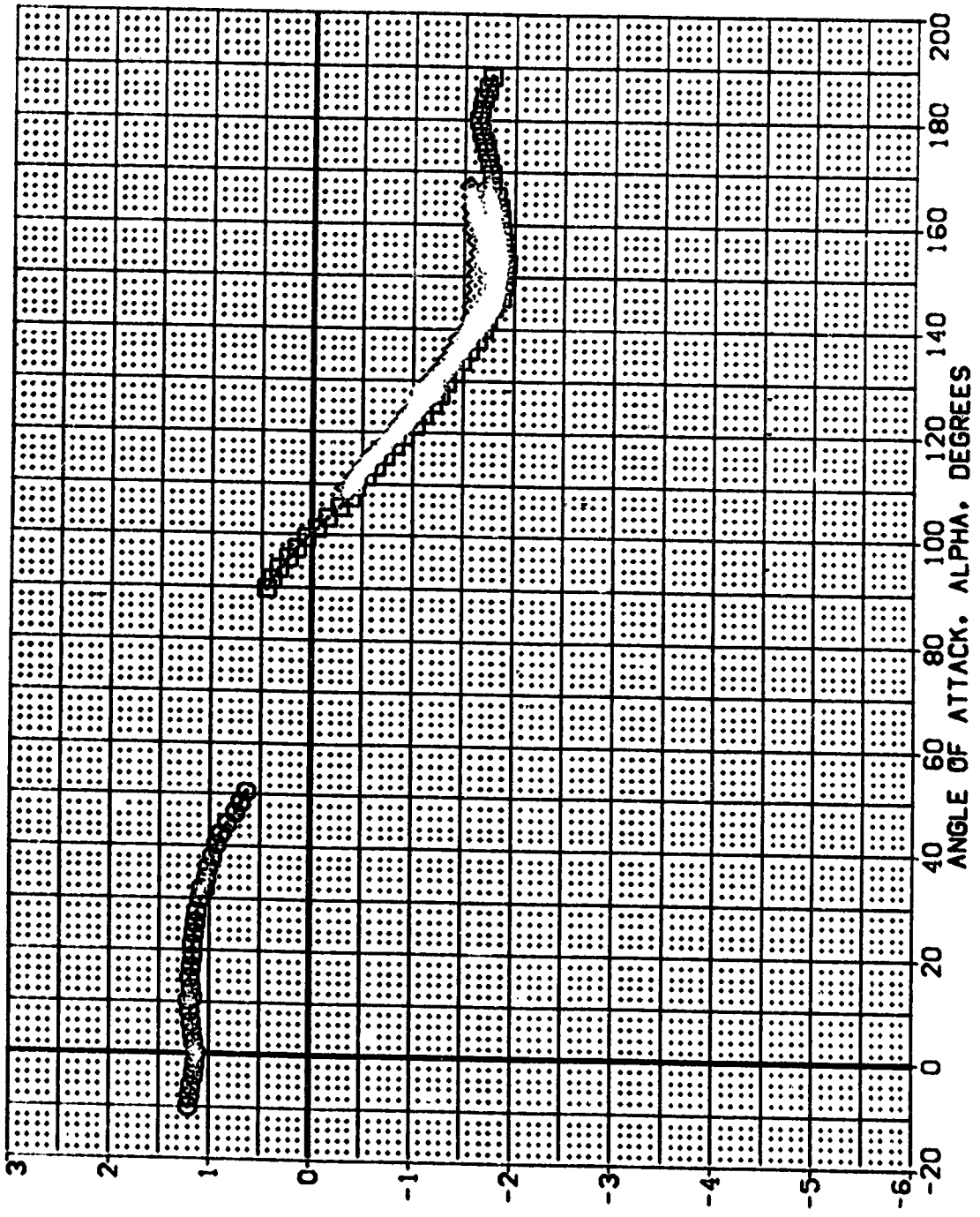
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BETA (PHI): .000, .000, .000, .45, .90, 1.35

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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

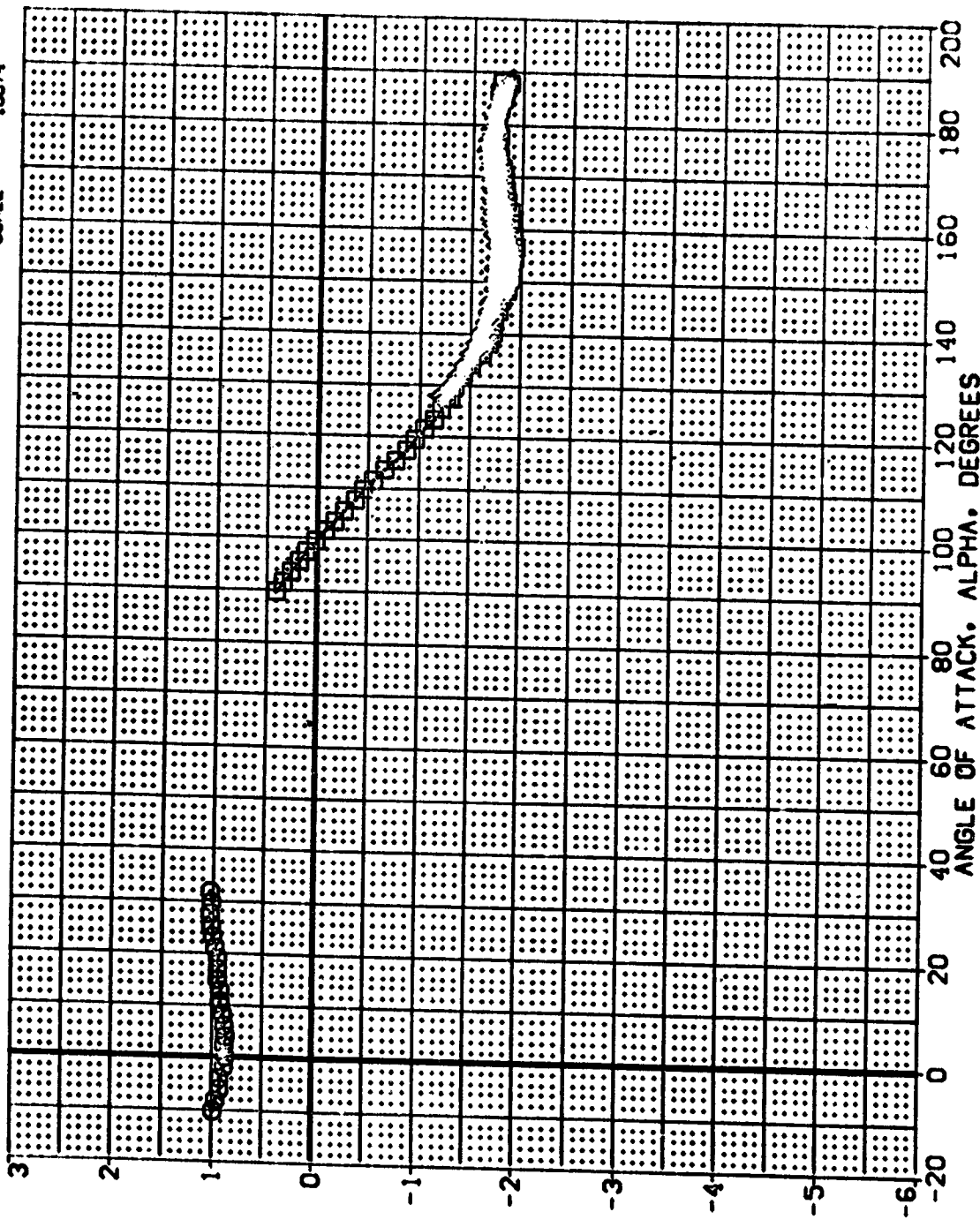
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BETA PHI
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(0)MACH = 1.96



REFERENCE INFORMATION
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CONFIGURATION DESCRIPTION
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 MS C 587 (FA4) TITAN III C SRM (NBETP)
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

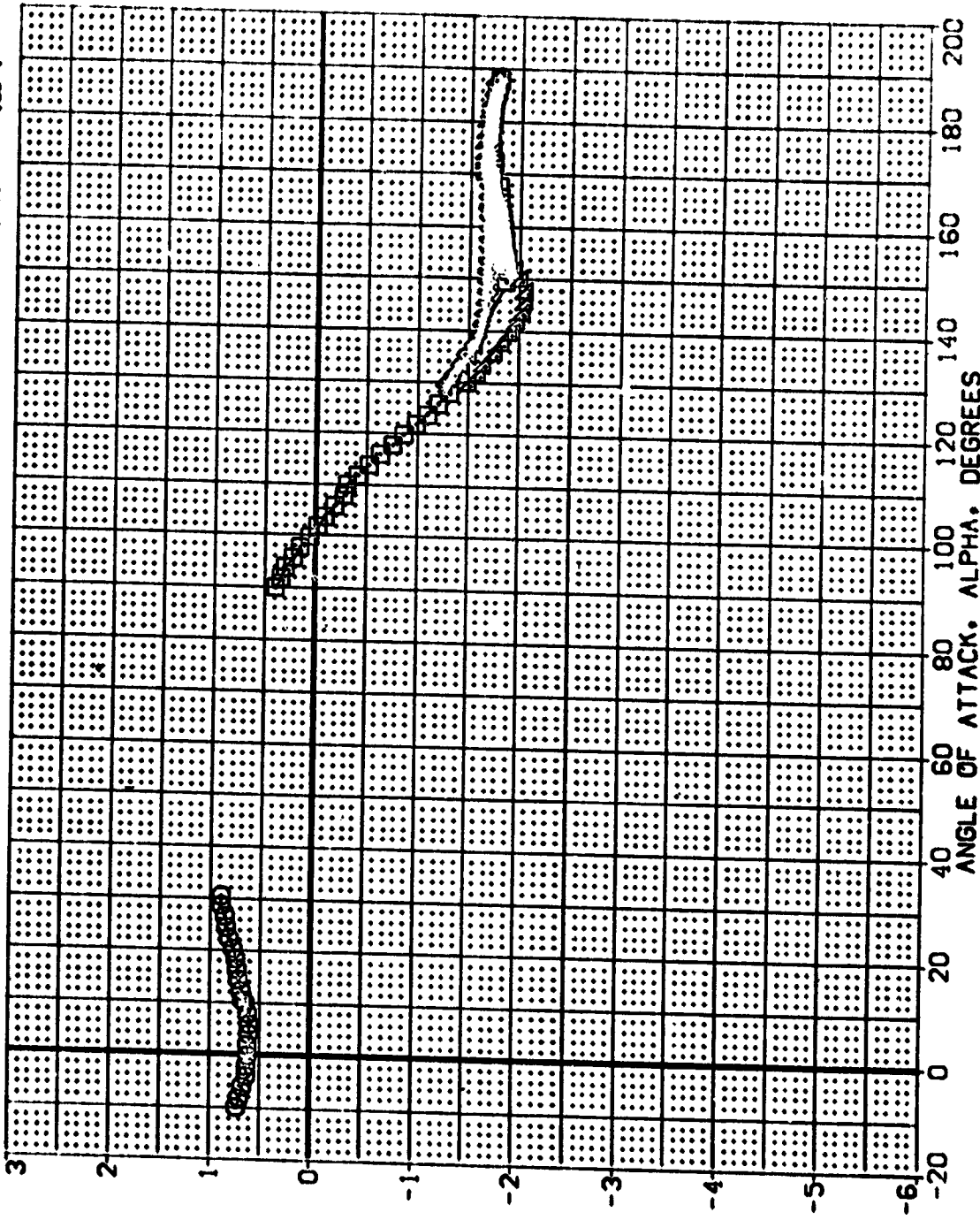
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BETA PHI
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CF)MACH = 4.96



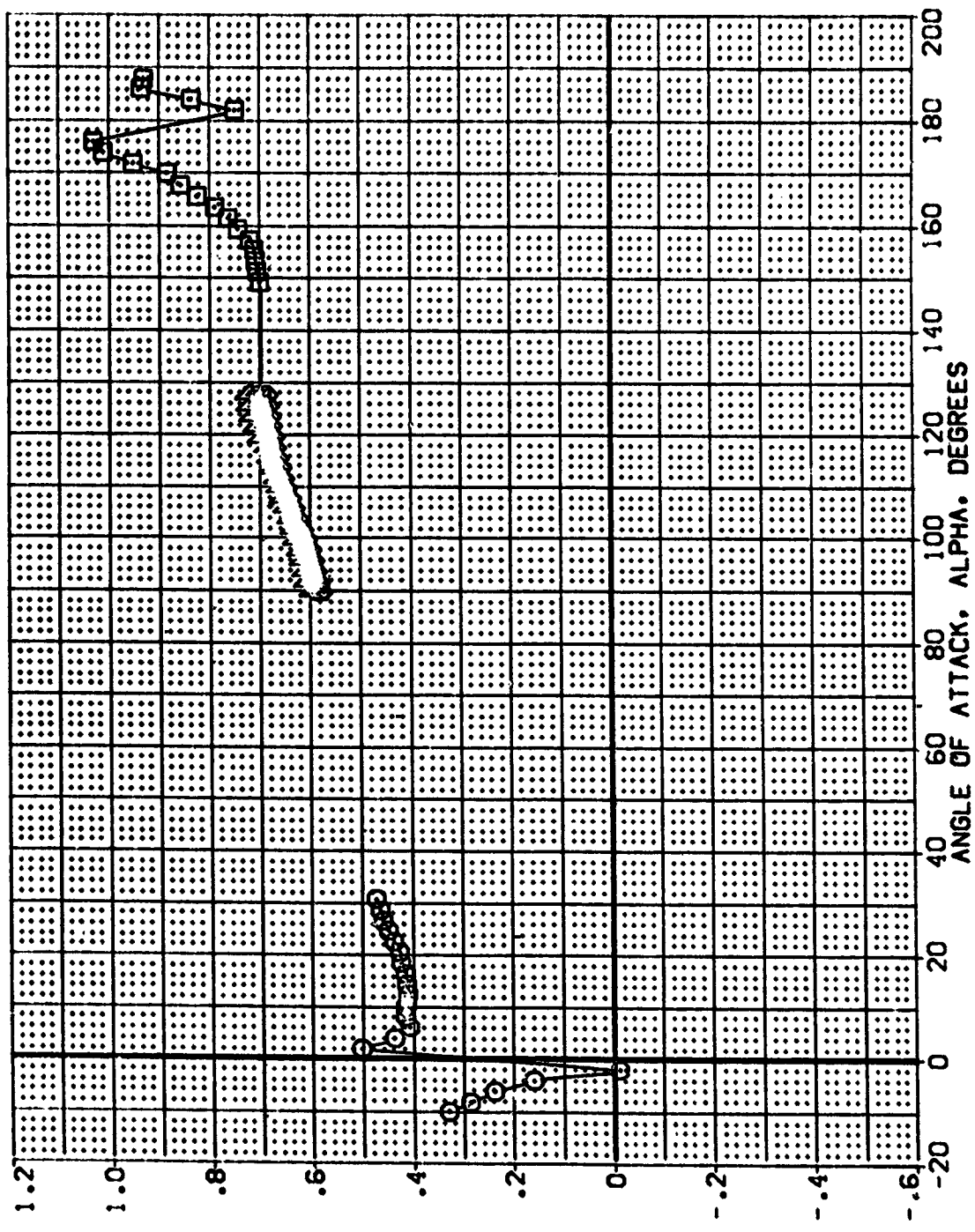
DATA SET SY-30
 :R7A01 : C
 :R7A02 : Z
 :R7A21 : Z
 :R7A20 : Z
 :R7A19 : Z

CONFIGURATION DESCRIPTION
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

REFERENCE INFORMATION
 SREF 6350 50. IN
 LREF 9000 IN.
 BREF 9000 IN.
 XMRP 4.6350 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

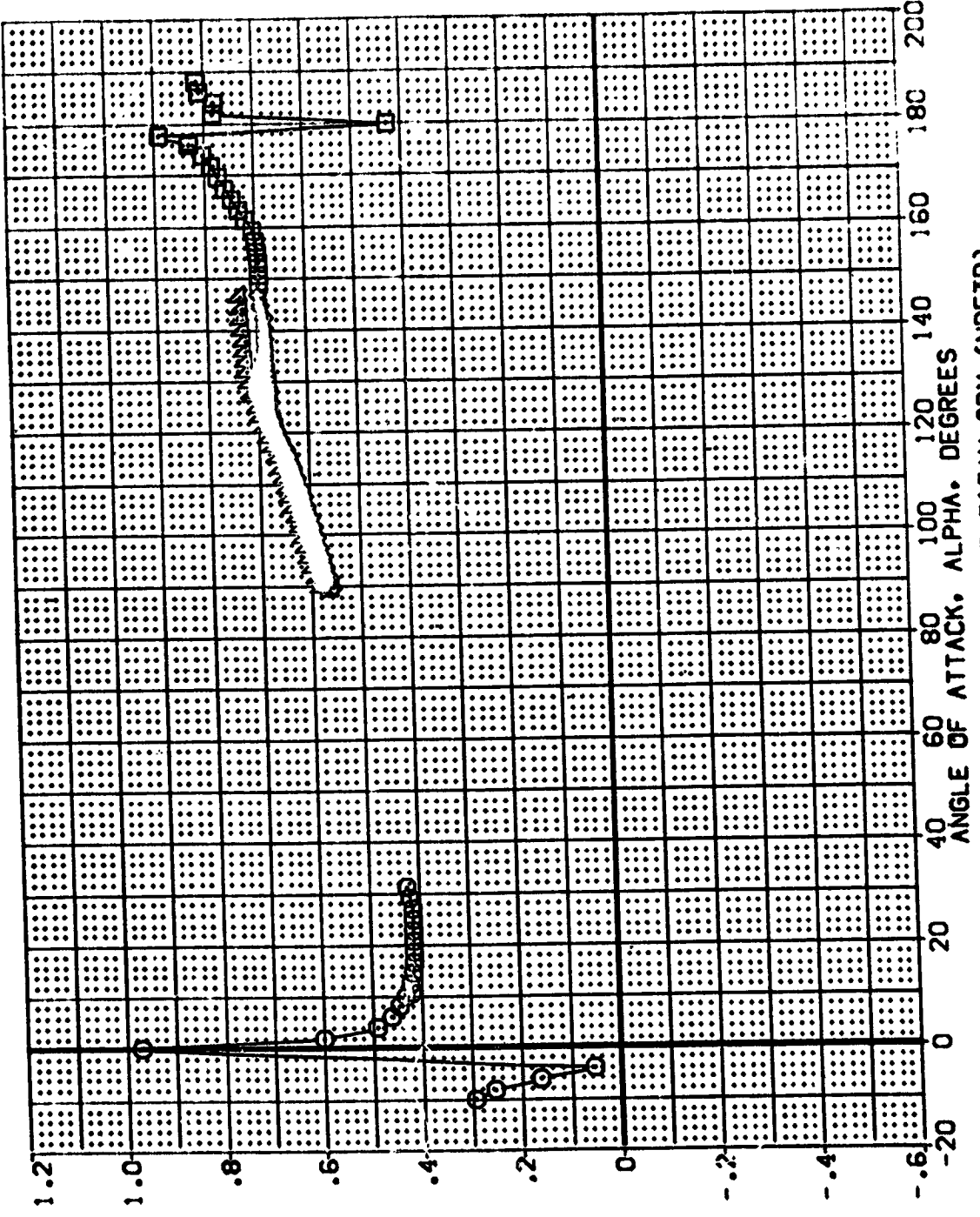
(MACH = .59

REFERENCE INFORMATION
 SREF .5370 SQ. IN.
 LINEF .5070
 BRPREF .5070
 XMRP 4 .5330
 YMRP .0000
 ZMRP .0000
 SCALE .0174

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 50.000
 .000 150.000

CONFIGURATION DESCRIPTION
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)

DATA SET SYMBO.
 (R87A01)
 (R87A02)
 (R87A21)
 (R87A70)
 (R87A19)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)M/CH = .90



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION IN

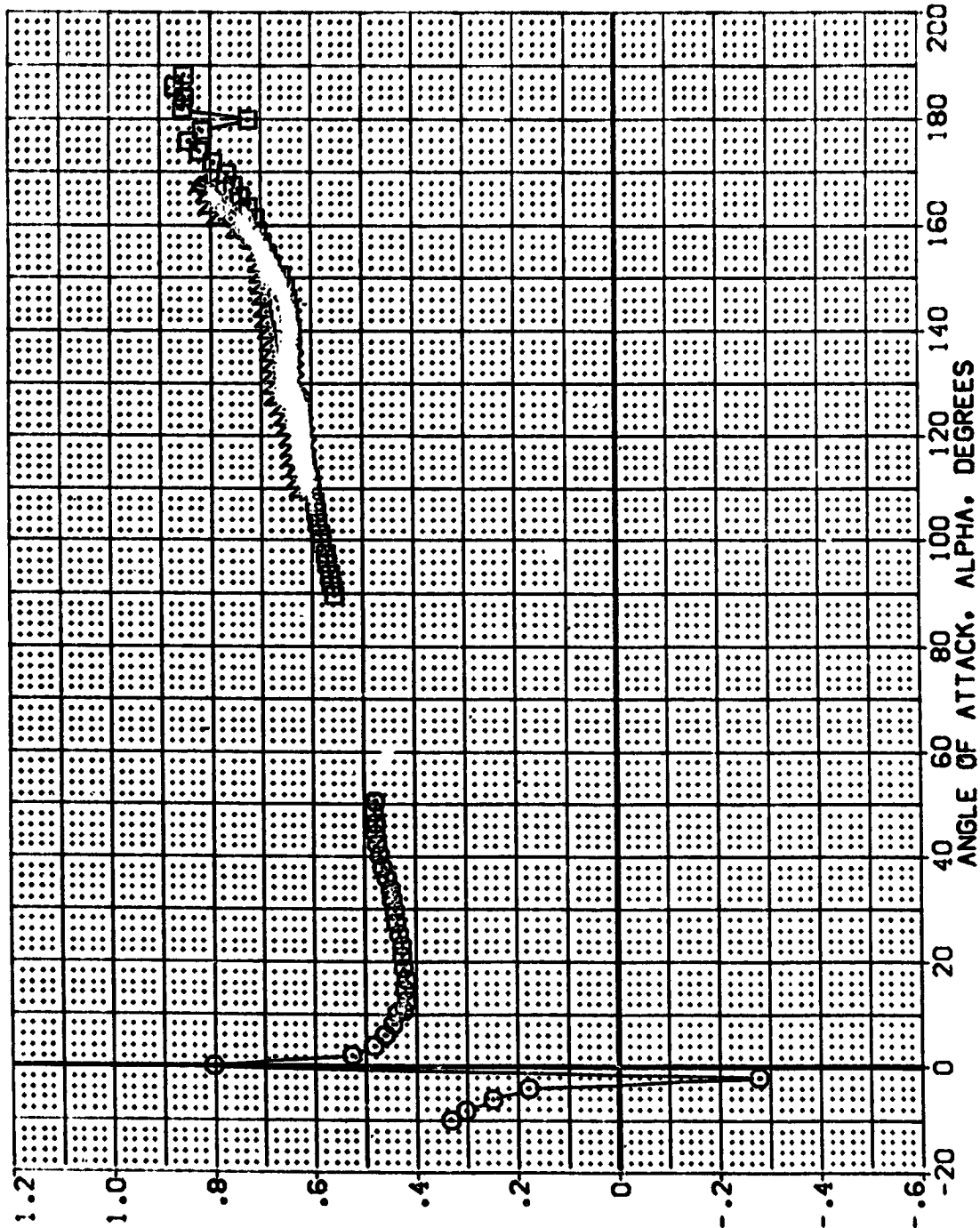
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LREF	.5000	LN.	IN.
BREF	.5000	BN.	IN.
XMREF	4.6330	XM.	IN.
YMREF	.0000	YM.	IN.
ZMREF	.0000	ZM.	IN.
SCALE	.0074		

BETA PHI

BETA	.000	PHI	.000
	.000		.000
	.000	45	.000
	.000	90	.000
	.000	135	.000

DATA SE. SYMBO. CONFIGURATION DESCRIPTION

0	MS C	587(FA4)	TITAN		C	SRM	(NBETP)
1	MS C	587(FA4)	TITAN		C	SRM	(NBETP)
2	MS C	587(FA4)	TITAN		C	SRM	(NBETP)
3	MS C	587(FA4)	TITAN		C	SRM	(NBETP)
4	MS C	587(FA4)	TITAN		C	SRM	(NBETP)
5	MS C	587(FA4)	TITAN		C	SRM	(NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

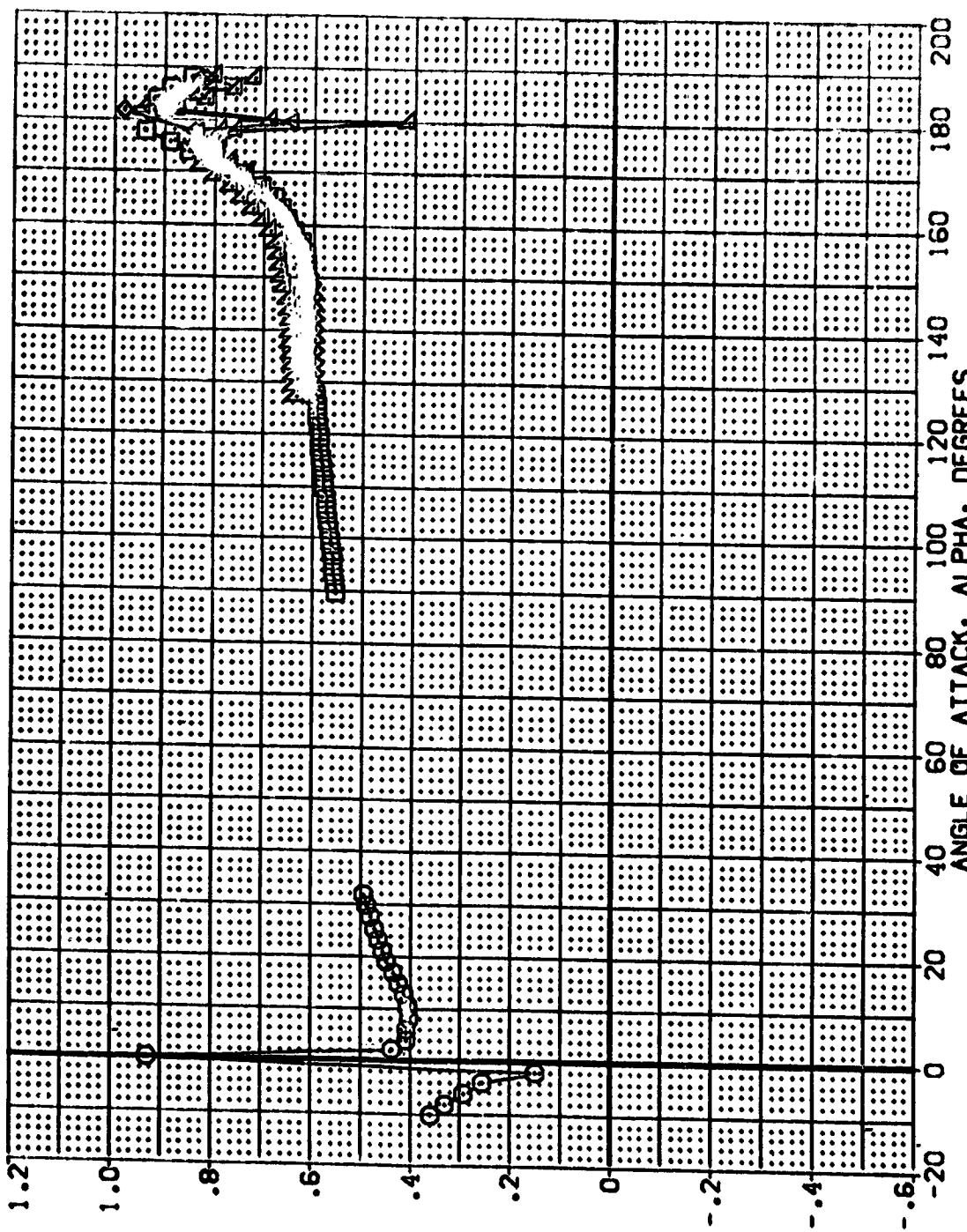
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 1.20

REFERENCE INFORMATION
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 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6336 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 [R57A01] MSC C 587 (FA4) TITAN III C SRM (NBETP)
 [R57A02] MSC C 587 (FA4) TITAN III C SRM (NBETP)
 [R57A03] MSC C 587 (FA4) TITAN III C SRM (NBETP)
 [R57A04] MSC C 587 (FA4) TITAN III C SRM (NBETP)
 [R57A05] MSC C 587 (FA4) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COMACH = 1.96

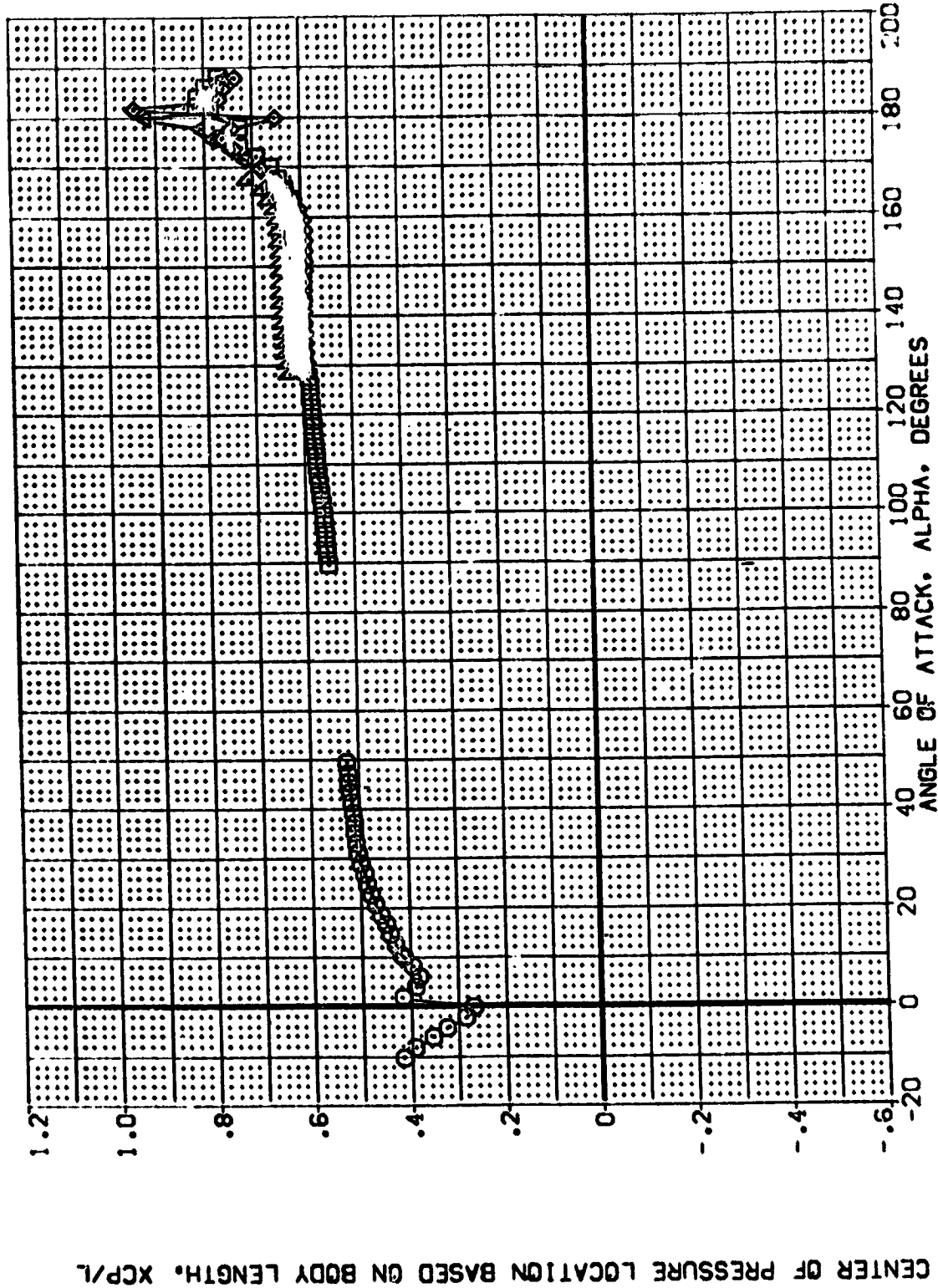


REFERENCE INFORMATION
 SREF .6360 SO. IN
 LREF .9000 IN.
 BREF .9000 IN.
 YMRP 4 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

CONFIGURATION DESCRIPTION
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)

DATA S. SYMB.
 (RSTAC) C
 (RSTAC) S
 (RSTAC) S
 (RSTAC) S
 (RSTAC) S



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

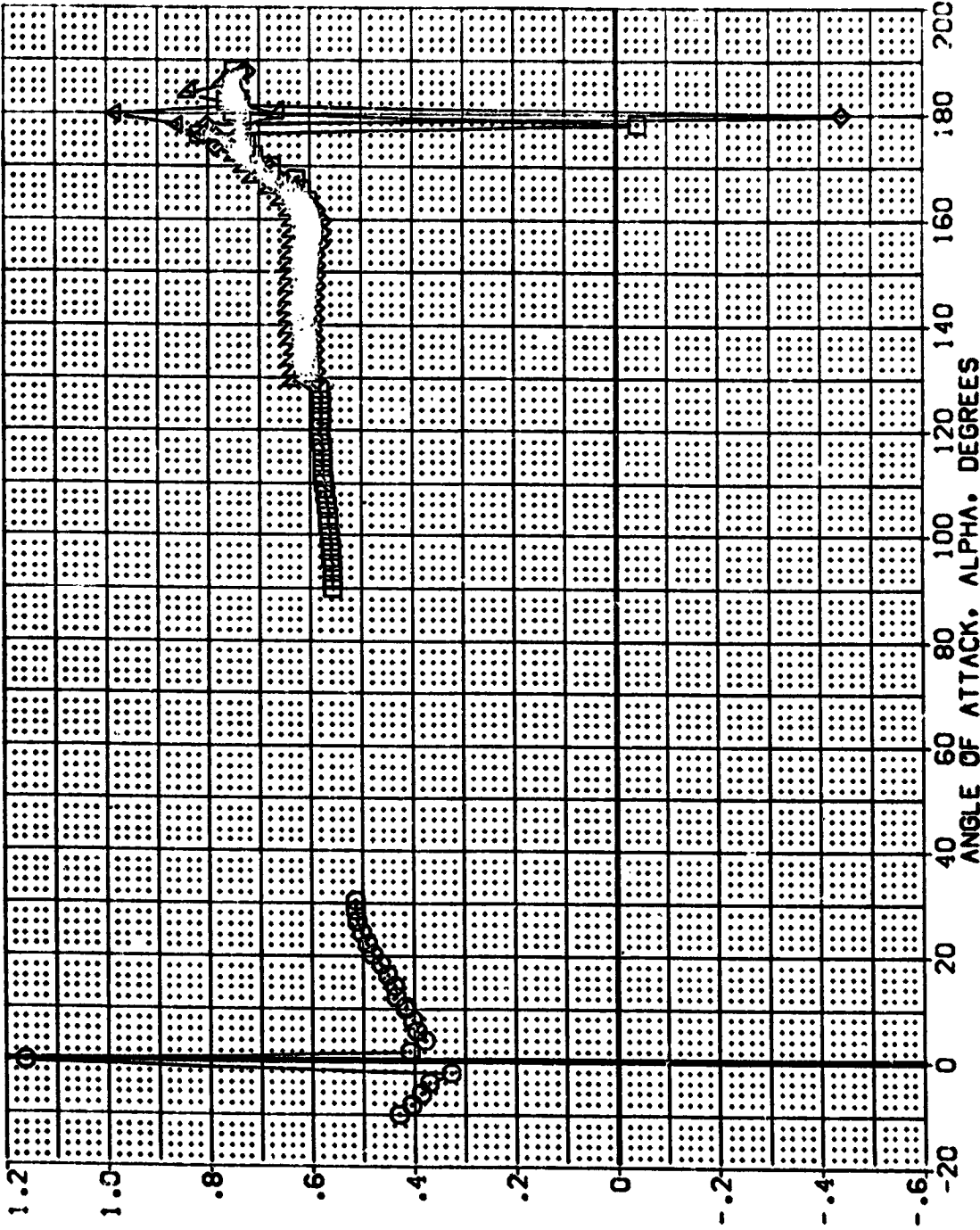
DATA SET SYMBO. CONFIGURATION DESCRIPTION

MSFC 587(FAM) TITAN III C SRM (NBETP)
 MSFC 587(FAM) TITAN III C SRM (NBETP)
 MSFC 587(FAM) TITAN III C SRM (NBETP)
 MSFC 587(FAM) TITAN III C SRM (NBETP)
 MSFC 587(FAM) TITAN III C SRM (NBETP)

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

REFERENCE INFORMATION
 SREF .6360 SQ. IN.
 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

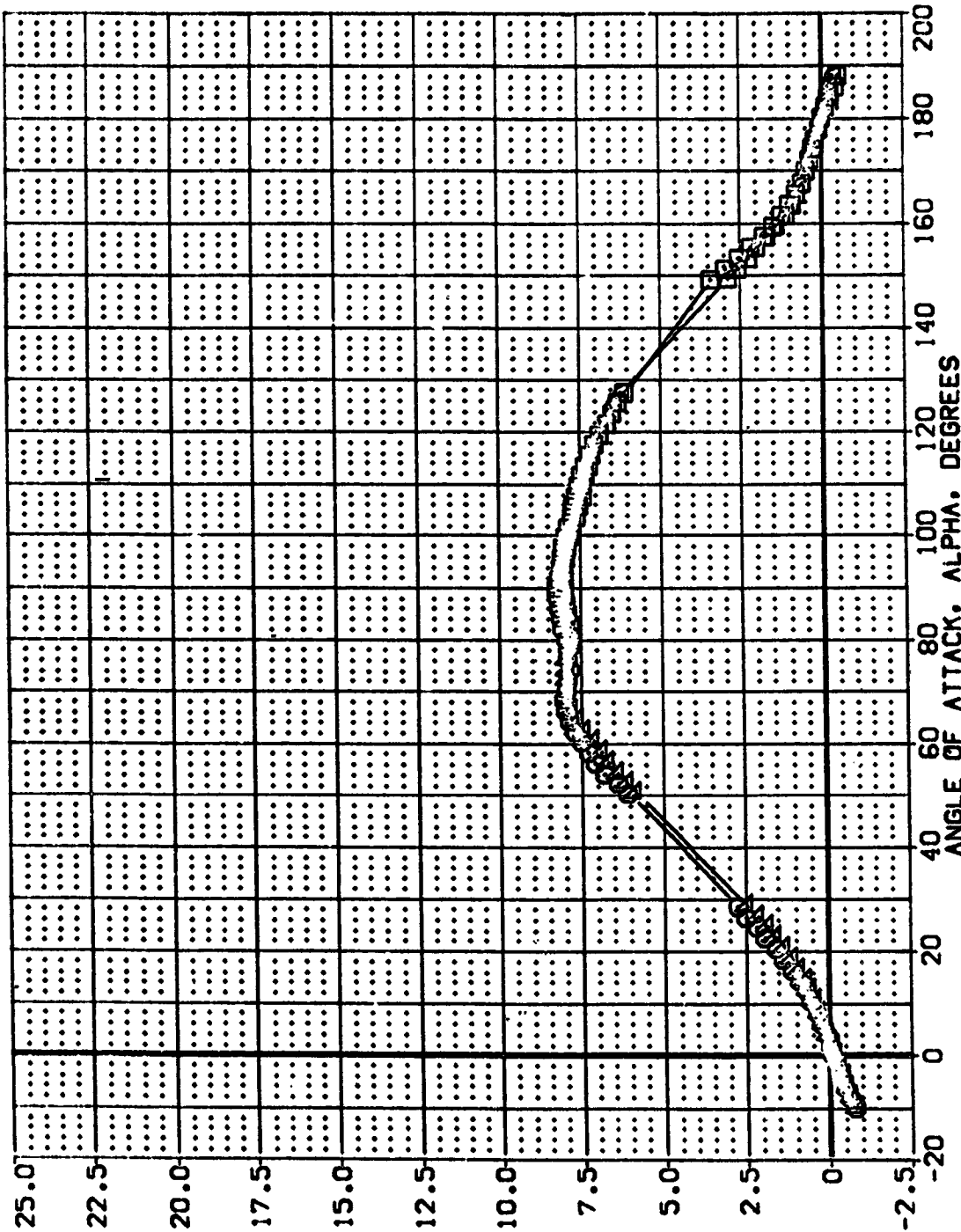


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6366 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA (PHI)
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 MSFC 587(PA4) TITAN III C SRM (NBETP)
 MSFC 587(PA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 MSFC 587(PA4) TITAN III C SRM (NBETP)
 MSFC 587(PA4) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

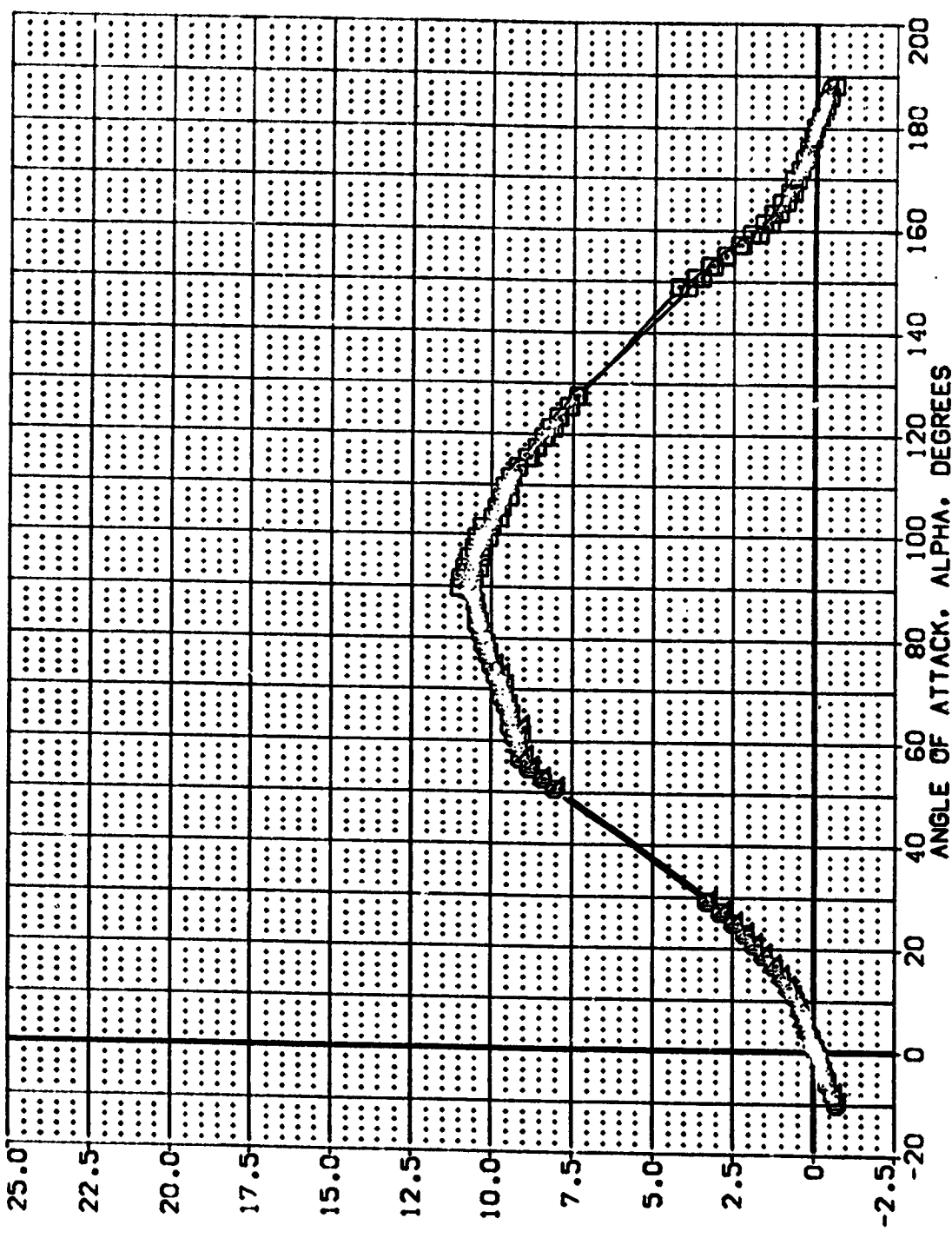
(A)MACH = .59

REFERENCE INFORMATION:
 SREF .6360 IN.
 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)

DATA SET SYMBOL
 :R57A:7
 :R57A:8
 :R57A:5
 :R57A:6
 :R57A:3
 :R57A:4



MISSILE AXIS NORMAL FORCE COEFFICIENT, C_m

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

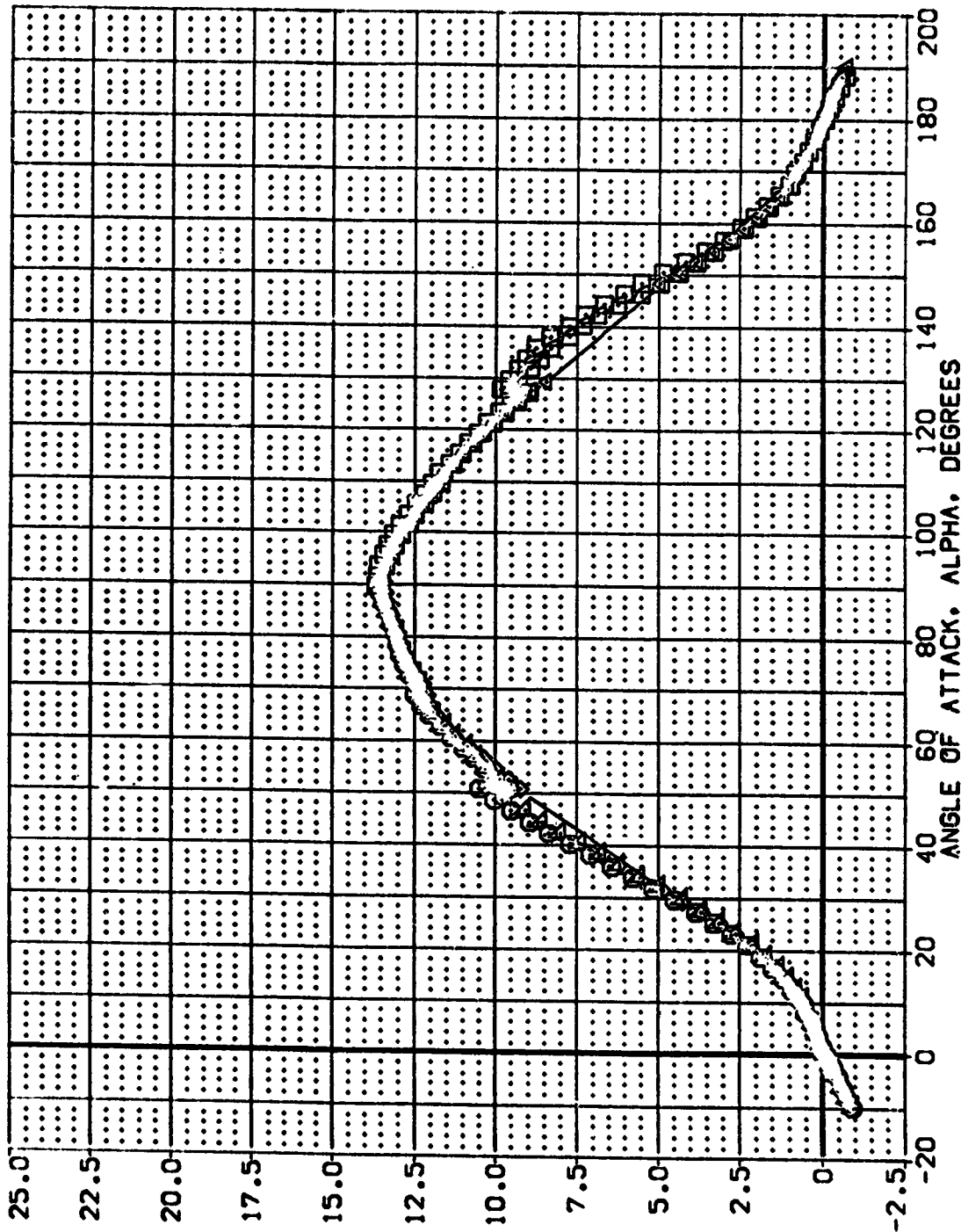


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360 IN.
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 BREF .9000 IN.
 XMRP 4.6336 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 RSTA 7] MS-C 587(FA4) TITAN III C SRM (NBETP)
 RSTA 8] MS-C 587(FA4) TITAN III C SRM (NBETP)
 RSTA 15] MS-C 587(FA4) TITAN III C SRM (NBETP)
 RSTA 16] MS-C 587(FA4) TITAN III C SRM (NBETP)
 RSTA 19] MS-C 587(FA4) TITAN III C SRM (NBETP)
 RSTA 14] MS-C 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 1.19

DATA SET SYMBO. CONFIGURATION DESCRIPTION

[RSTA:17] Q MSFC 587(FAM) TITAN III C SRM (NBETP)

[RSTA:18] X MSFC 587(FAM) TITAN III C SRM (NBETP)

[RSTA:5] DATA NOT AVAILABLE

[RSTA:16] DATA NOT AVAILABLE

[RSTA:13] MSFC 587(FAM) TITAN III C SRM (NBETP)

[RSTA:4] MSFC 587(FAM) TITAN III C SRM (NBETP)

BETA PHI

.000 180.000

.000 180.000

.000 202.500

.000 202.500

.000 225.000

.000 225.000

REFERENCE INFORMATION

SREF .6360 SQ. IN

LREF .5000 IN.

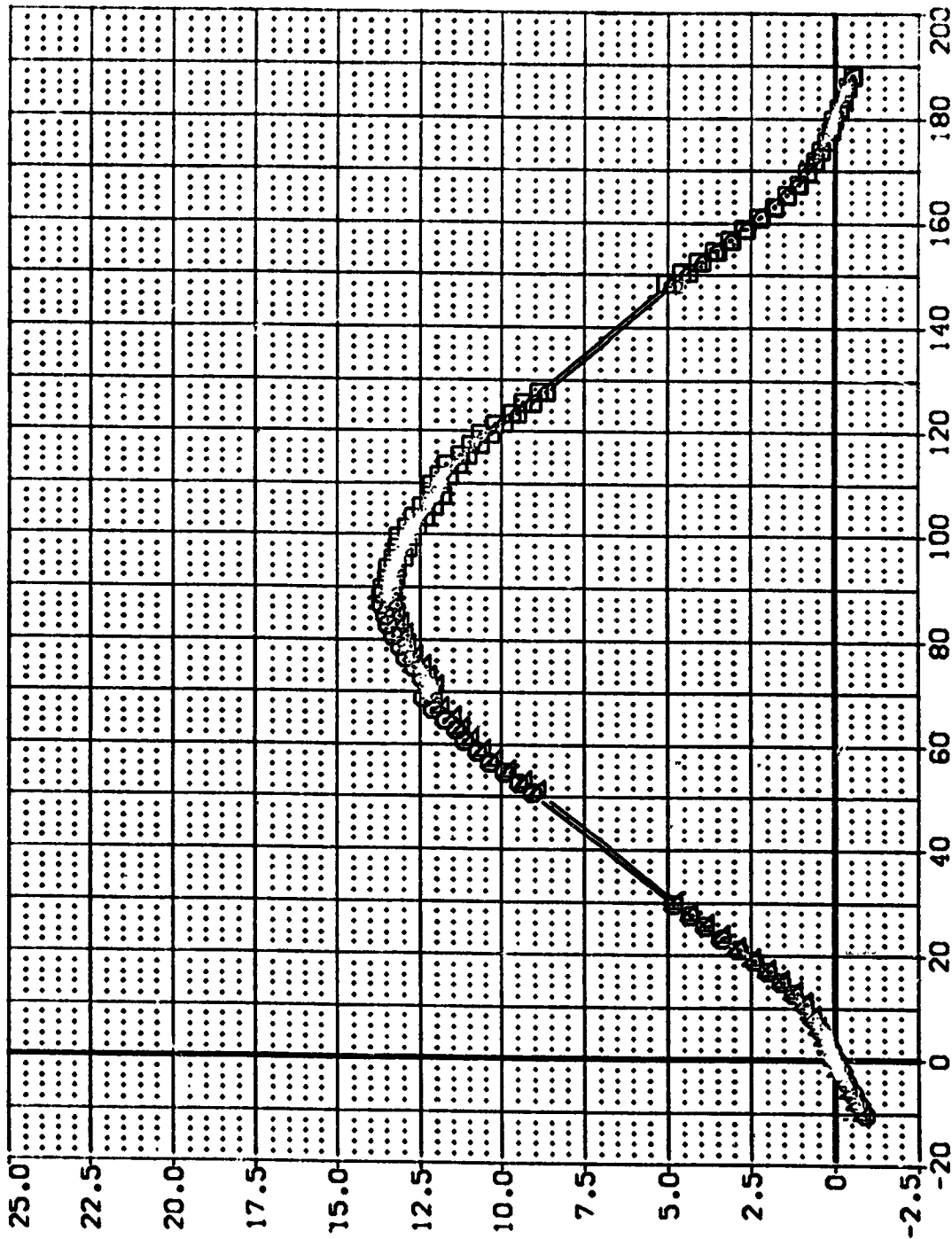
XMRP 4.6330 IN.

YMRP .0000 IN.

ZMRP .0000 IN.

SCALE .0074

MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(D)MACH = 1.96

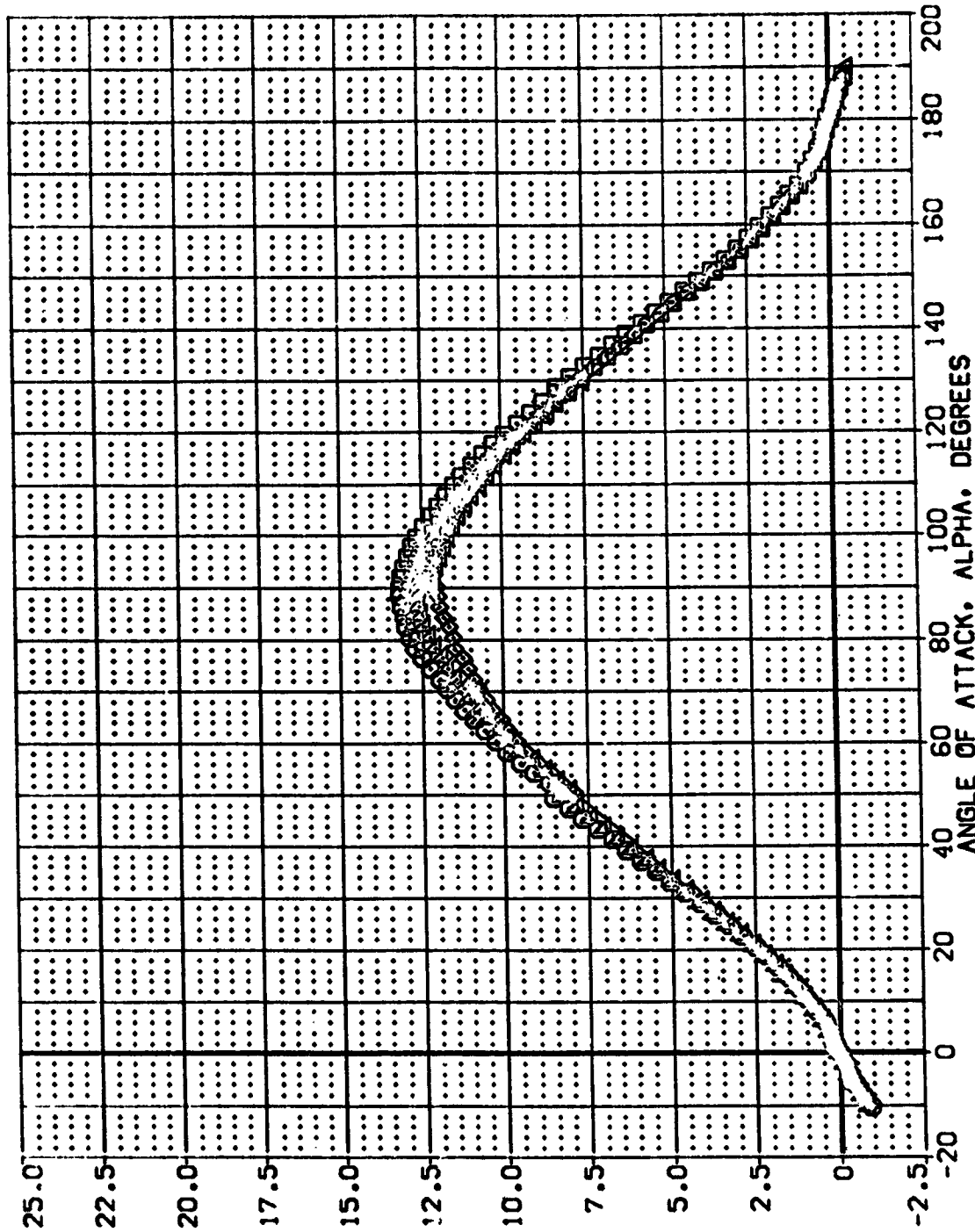


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .5000 IN.
 BRREF .5000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [R57A17] C SRM (NBETP)
 [R57A18] C SRM (NBETP)
 [R57A15] C SRM (NBETP)
 [R57A16] C SRM (NBETP)
 [R57A13] C SRM (NBETP)
 [R57A14] C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

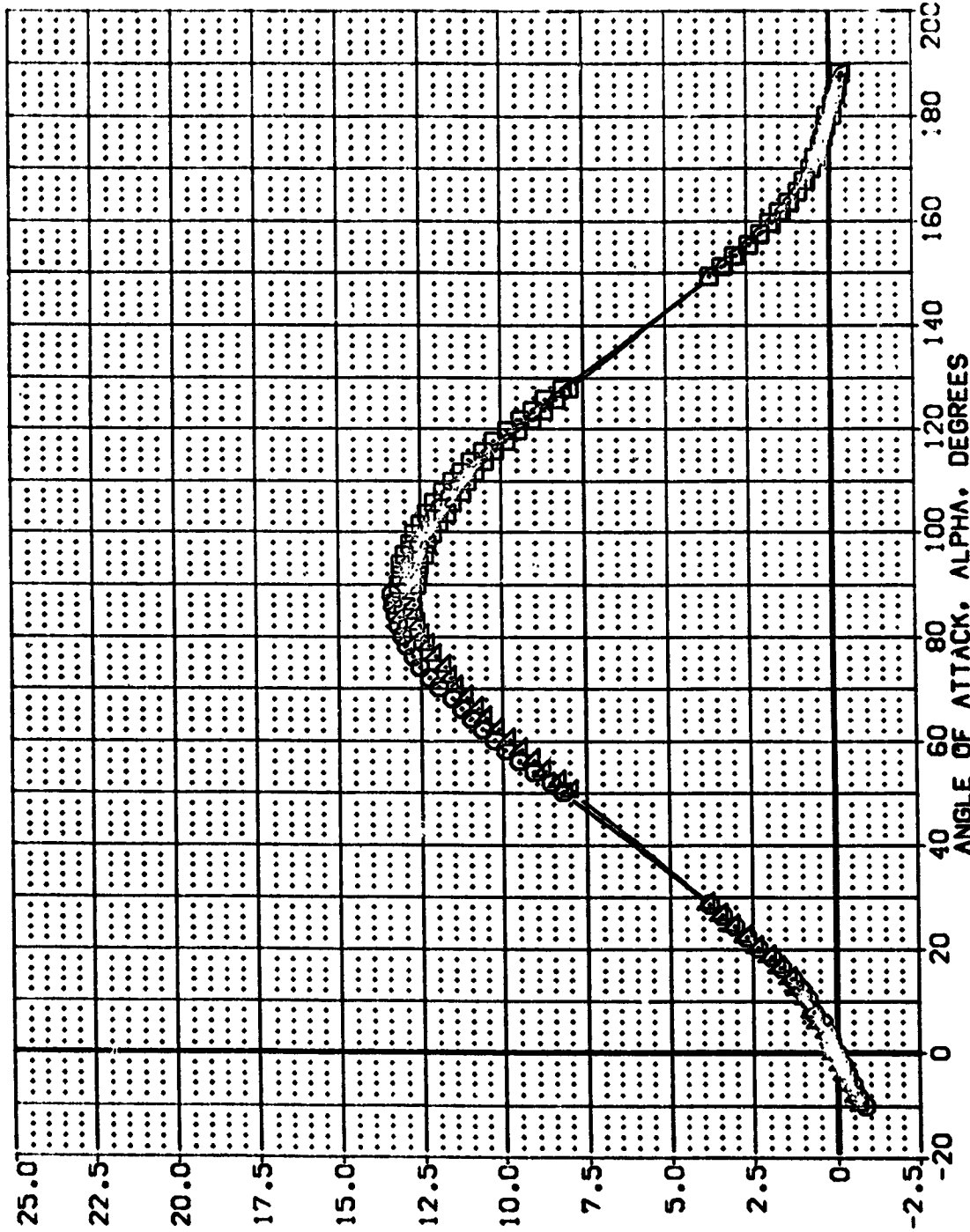
REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .9000 IN.
 BRREF .9000 IN.
 XMRP 4 .6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION
 MSFC 587(FA) TITAN III C SRM (NBETP)
 MSFC 587(FA) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FA) TITAN III C SRM (NBETP)
 MSFC 587(FA) TITAN III C SRM (NBETP)

DATA SET SYMBO.
 [REDACTED]
 [REDACTED]
 [REDACTED]
 [REDACTED]
 [REDACTED]

MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

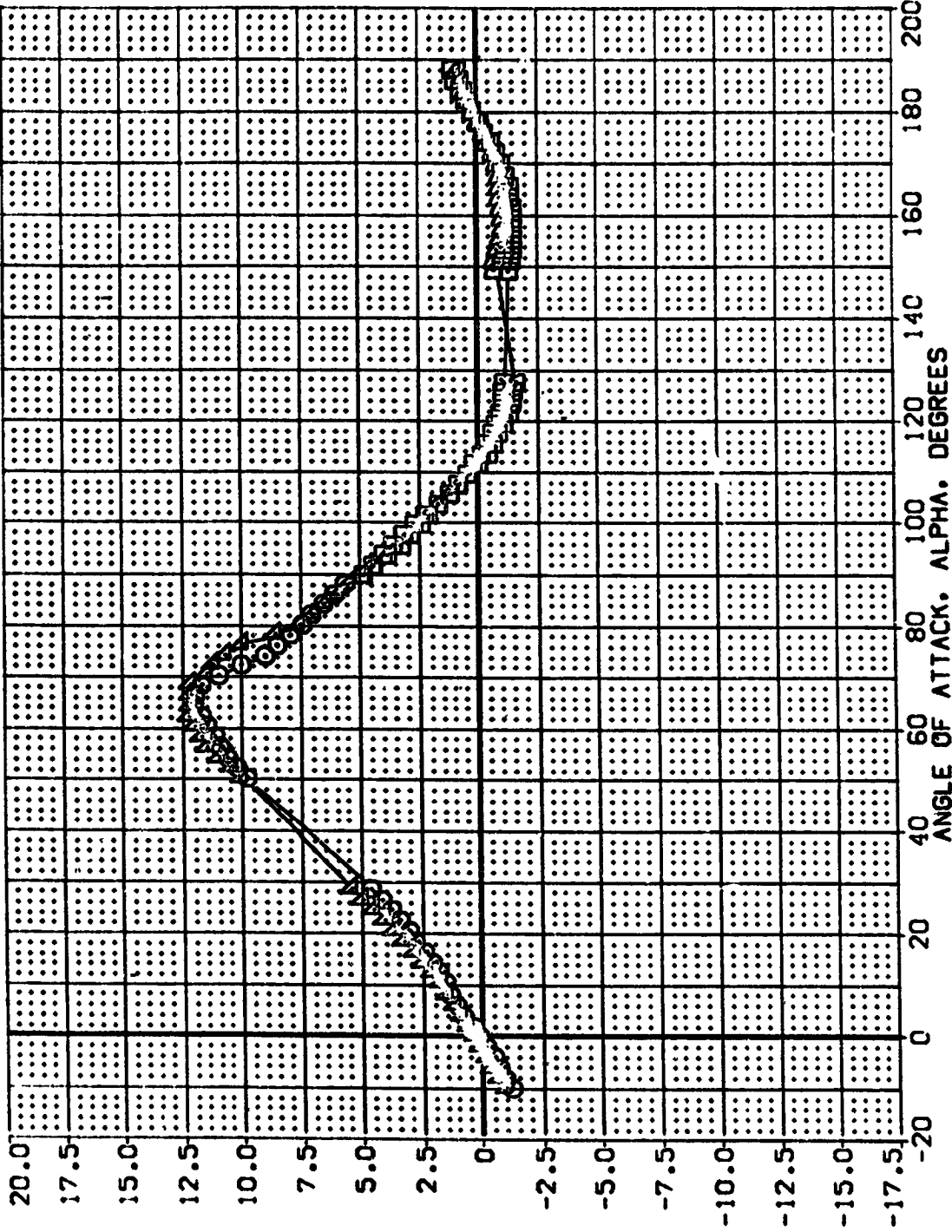


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF 5000 IN.
 BREF 5000 IN.
 XMRP 4.633C IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 :R97A:7: C X
 :R97A:8: C X
 :R97A:15: C X
 :R97A:16: C X
 :R97A:13: C X
 :R97A:14: C X
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

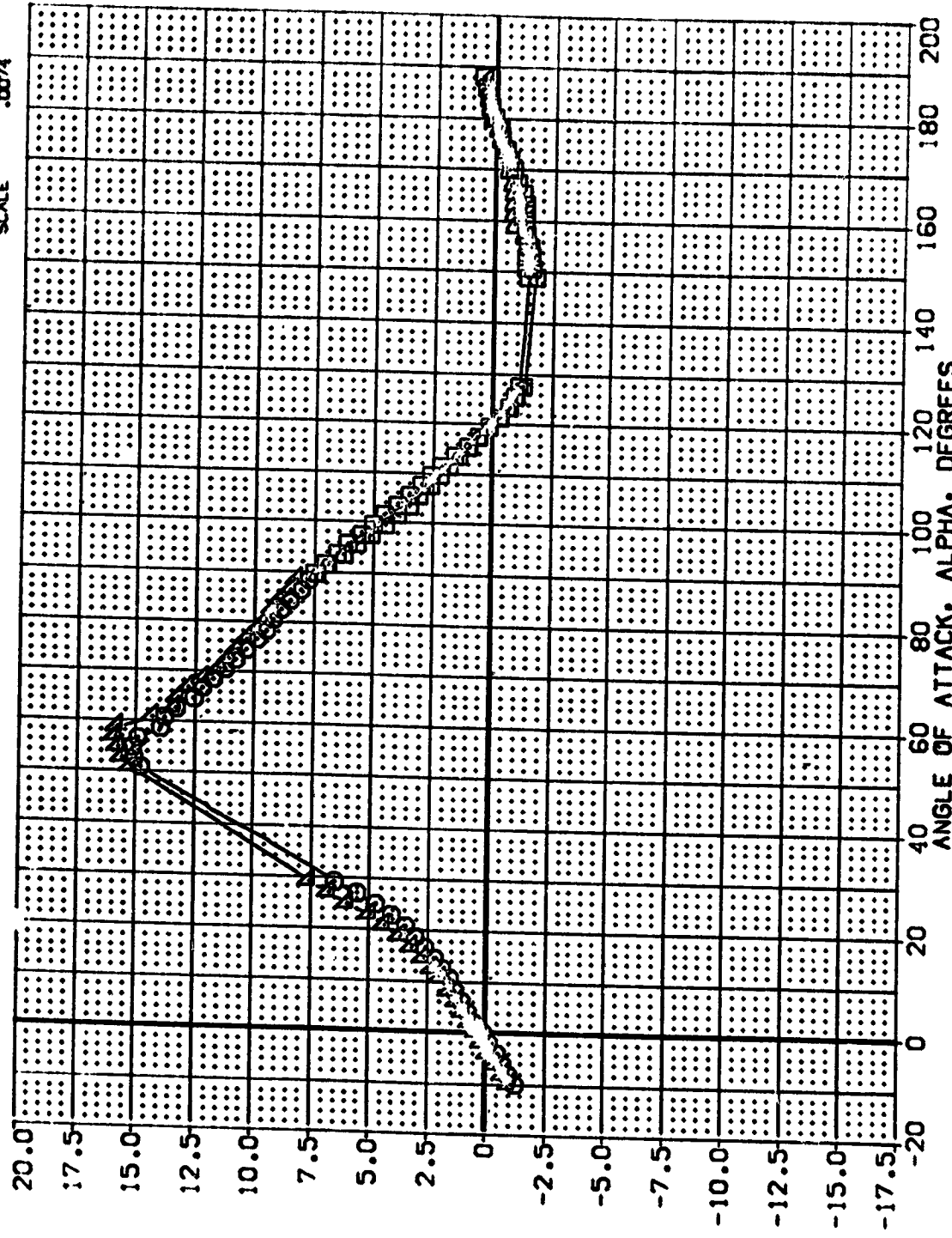
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .59

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RSTA17) MS-C 587(FA4) TITAN III C SRM (NBETP)
 :RSTA18) MS-C 587(FA4) TITAN III C SRM (NBETP)
 :RSTA19) DATA NOT AVAILABLE
 :RSTA20) DATA NOT AVAILABLE
 :RSTA21) MS-C 587(FA4) TITAN III C SRM (NBETP)
 :RSTA22) MS-C 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF 6360 SQ IN
 LREF 9000 IN.
 BREF 8200 IN.
 YMRP 4.6300 IN.
 ZMRP .0000 IN.
 SCALE .0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

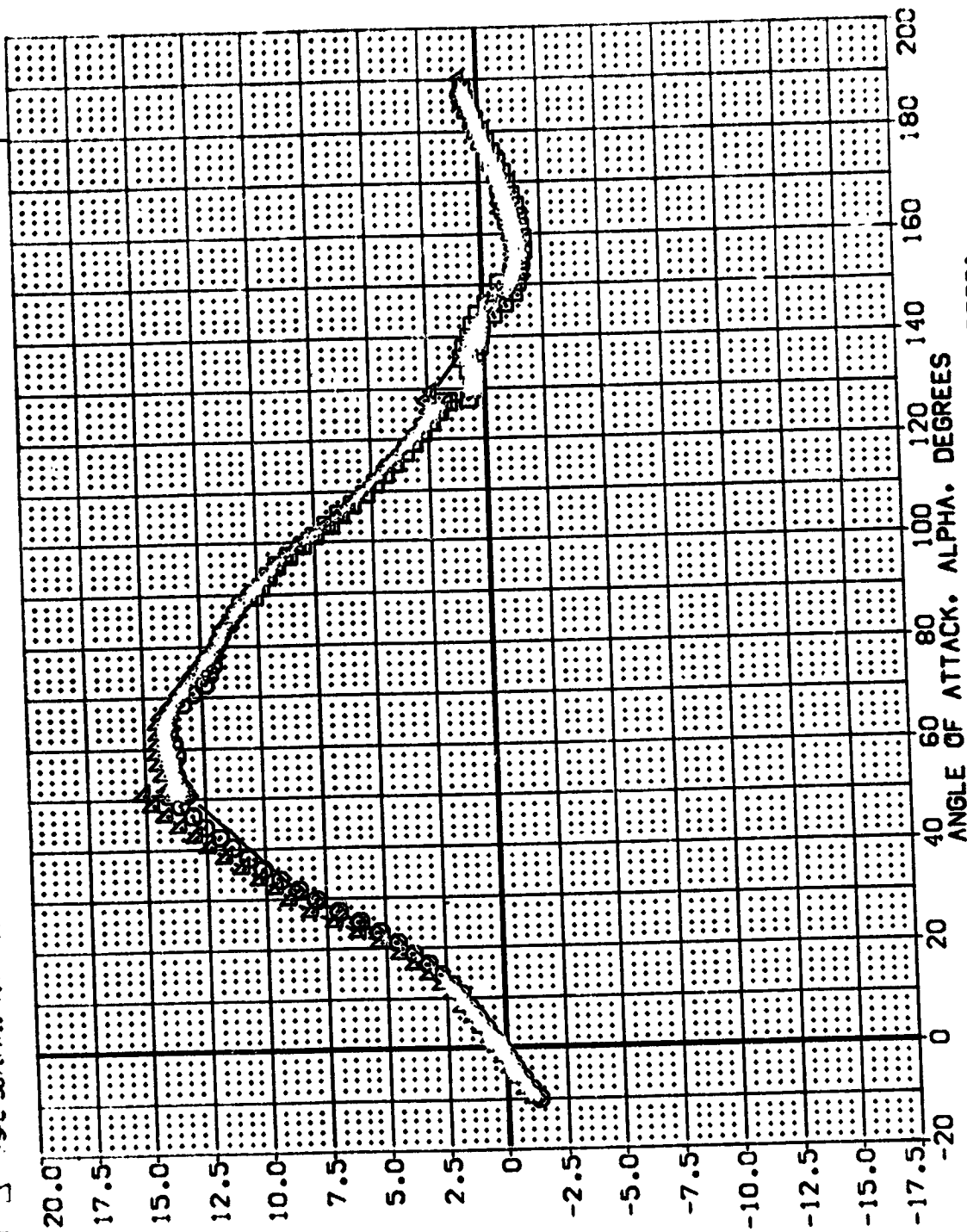
(B)MACH = .90



REFERENCE INFORMATION
 SREF 6360 SQ. IN
 IREF 9000
 BREF 9000
 XMRP 4.633C
 YMRP .000
 ZMRP .000
 SCALE 0074

BETA (PH)
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	SRM (NBETP)
977A(7)	587(FA4)	TITAN III C	SRM (NBETP)
977A(8)	587(FA4)	TITAN III C	SRM (NBETP)
977A(5)	587(FA4)	TITAN III C	SRM (NBETP)
977A(6)	587(FA4)	TITAN III C	SRM (NBETP)
977A(13)	587(FA4)	TITAN III C	SRM (NBETP)
977A(14)	587(FA4)	TITAN III C	SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

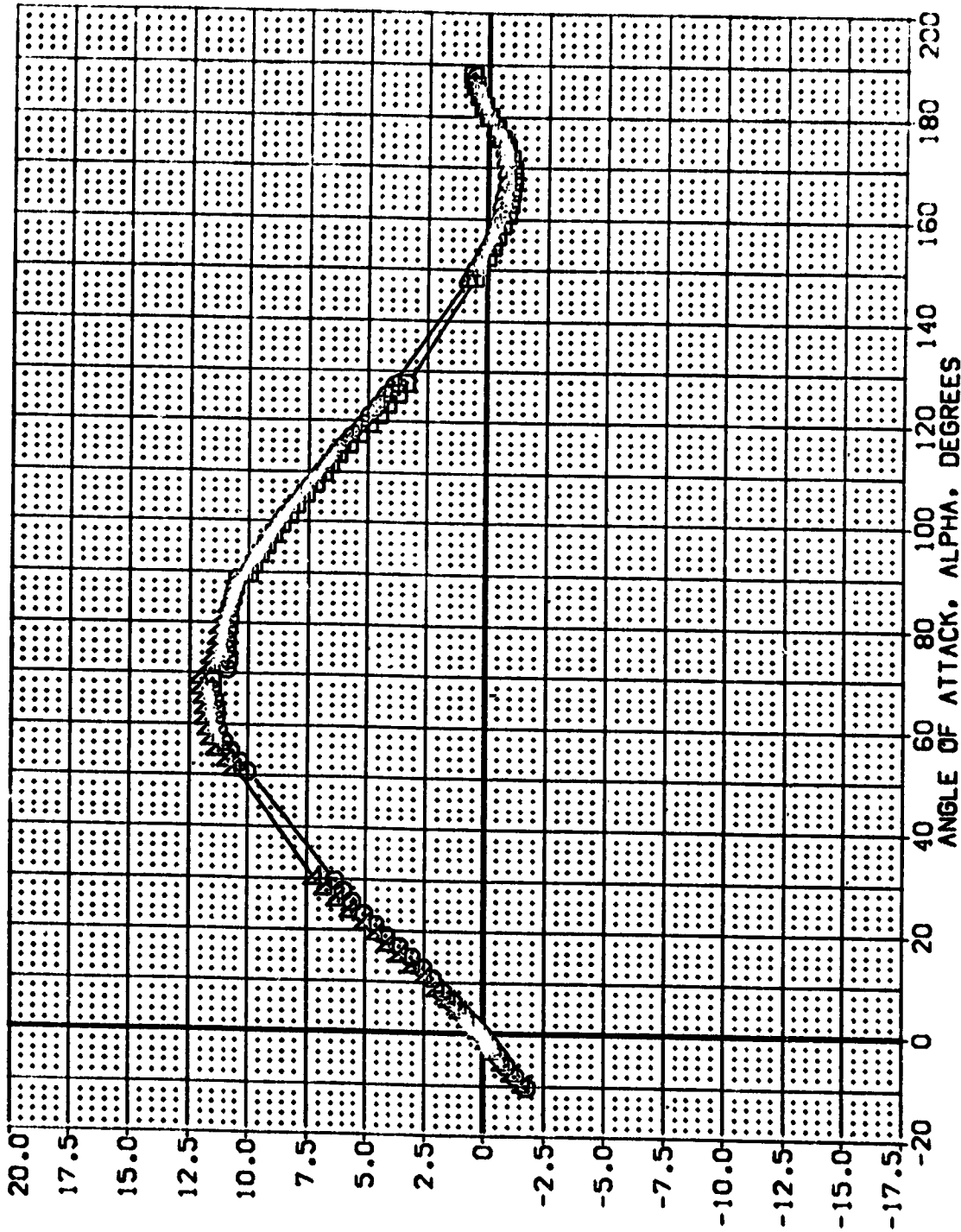
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.19

DATA SET SYMB. CONFIGURATION DESCRIPTION
 :R57A17} MSFC 567(FA4) TITAN III C SRM (NBE1P)
 :R57A18} MSFC 567(FA4) TITAN III C SRM (NBE1P)
 :R57A15} DATA NOT AVAILABLE
 :R57A13} MSFC 567(FA4) TITAN III C SRM (NBE1P)
 :R57A14} MSFC 567(FA4) TITAN III C SRM (NBE1P)

BETA PH1
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6350 SQ. IN
 LREF .9000 IN.
 BREF .5000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBE1P)

COMMACH = 1.96



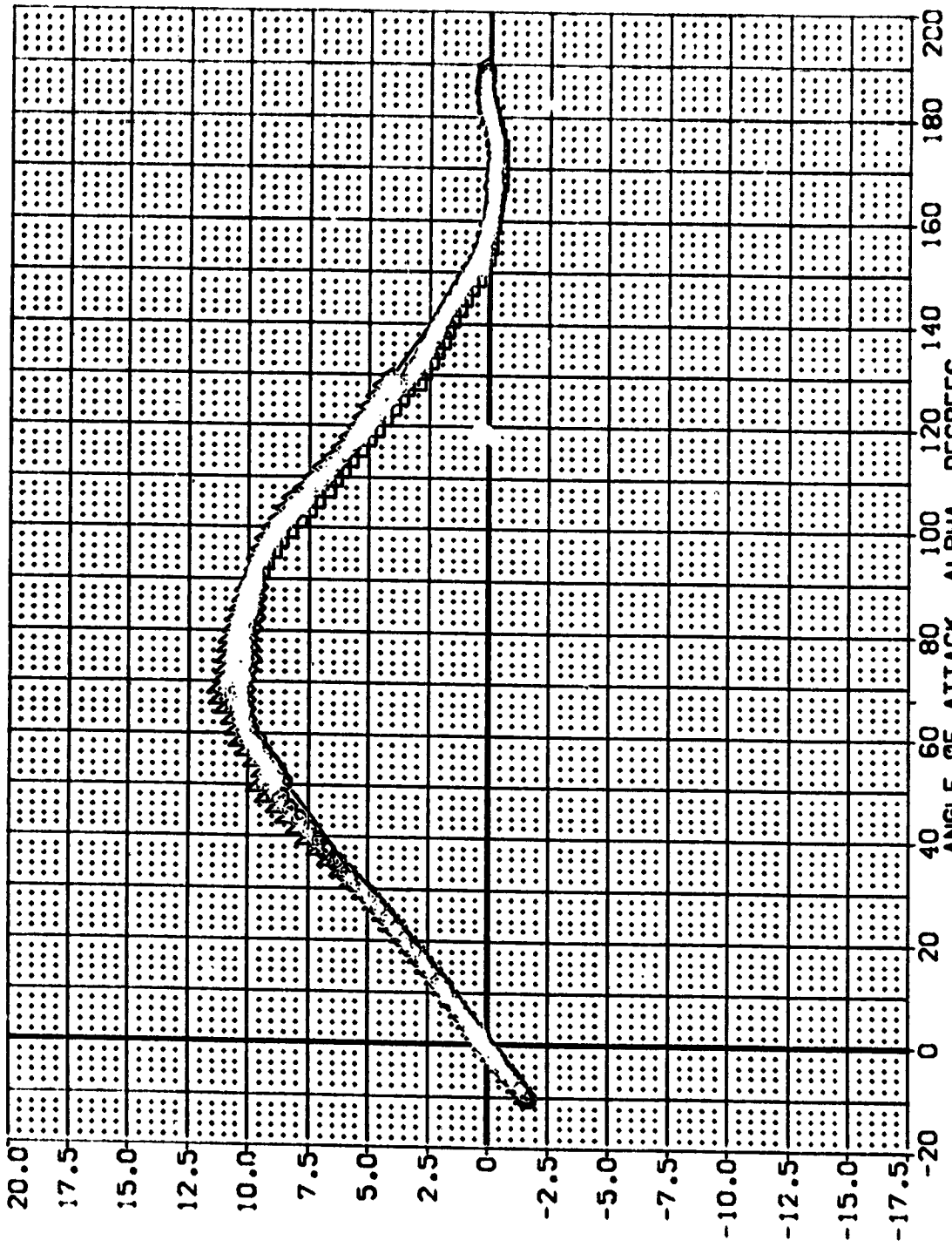
REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA (PH)
 .00 180.000
 .00 180.000
 .00 180.000
 .00 202.500
 .00 225.000

DATA SET: SYMBO
 :R57A:7] Q
 :R57A:8] X
 :R57A:5] Z
 :R57A:6] Z
 :R57A:3] Z
 :R57A:4] Z

CONFIGURATION DESCRIPTION
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJ MACH = 3.48

PAGE 35

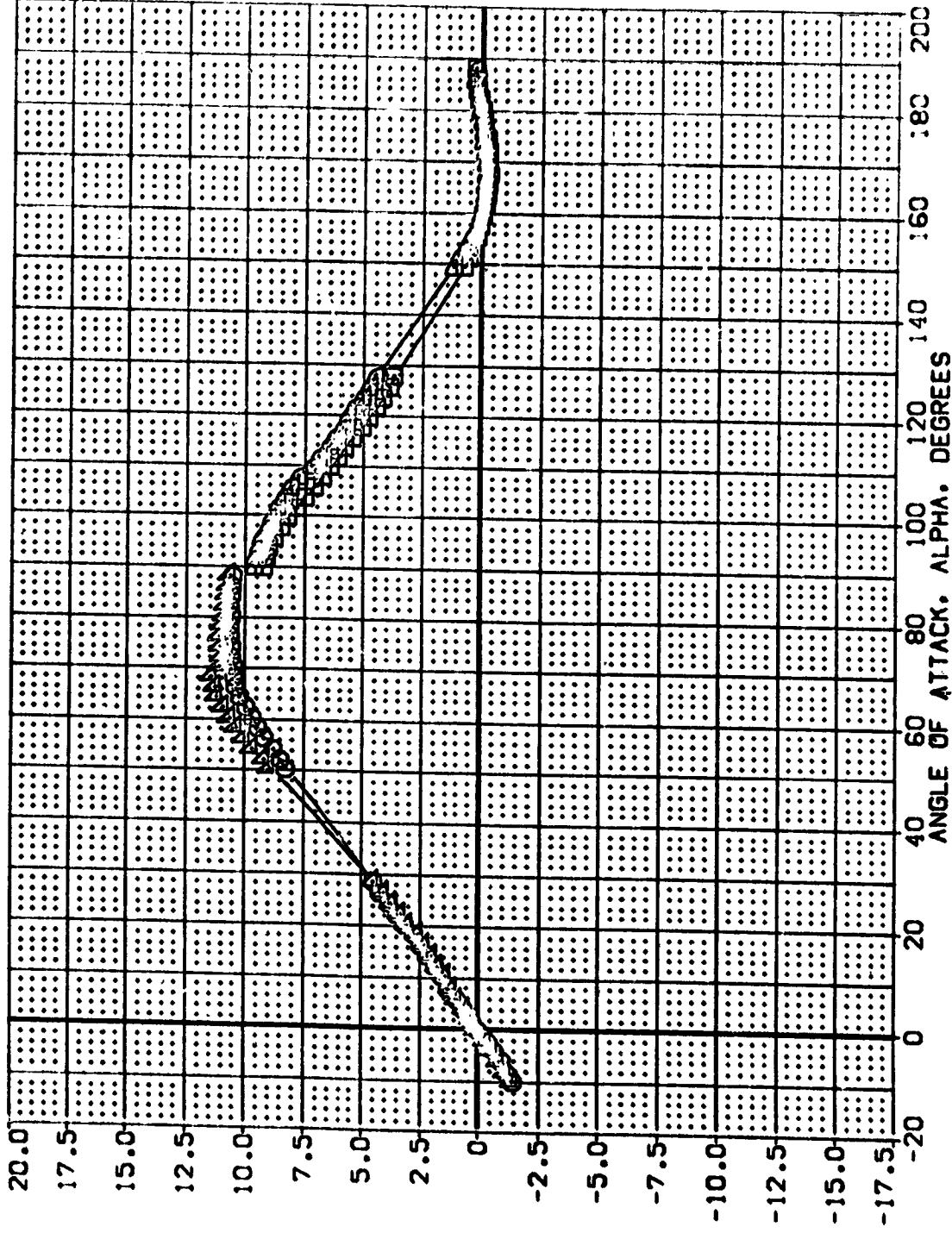
DATA SET SYMB. : R77A17
 : R77A18
 : R77A15
 : R77A16
 : R77A13
 : R77A14

CONFIGURATION DESCRIPTION
 MSFC 587(F44) TITAN III C SRM (NBETP)
 MSFC 587(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 MSFC 587(F44) TITAN III C SRM (NBETP)
 MSFC 587(F44) TITAN III C SRM (NBETP)

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .9000 IN.
 BREF .9000 IN.
 XPRP 4.6330 IN.
 YPRP .0000 IN.
 ZPRP .0000 IN.
 SCALE .0074

MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

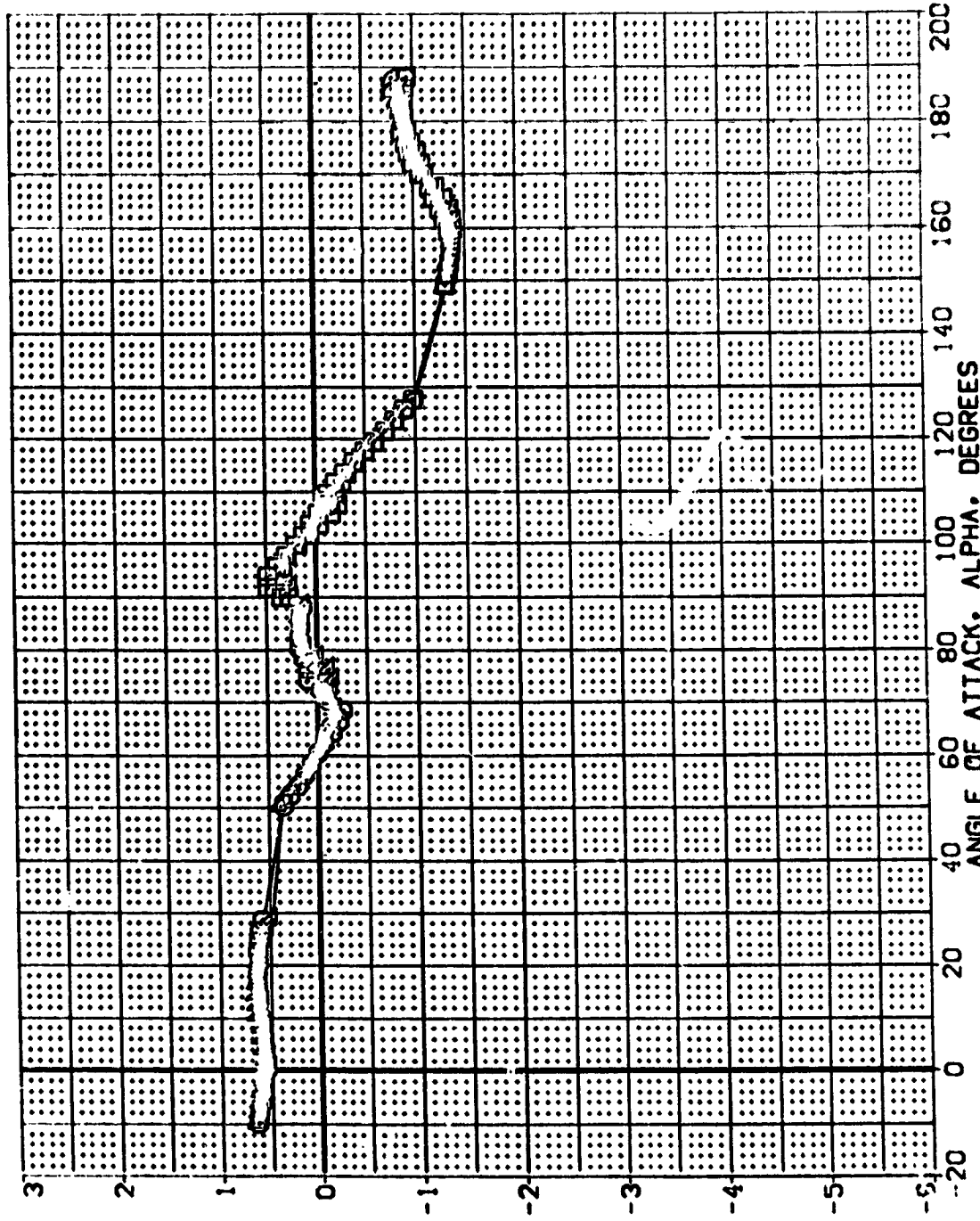
CFMACH = 4.96



REFERENCE INFORMATION
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 LREF .5000
 BREF .5000
 XMPR 4.6330
 YMPR .0000
 ZMPR .0000
 SCALE .0074

BETA PHI
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :R97A:7) MSC 587(FA4) TITAN III C SRM (NBETP)
 :R97A:8) MSC 587(FA4) TITAN III C SRM (NBETP)
 :R97A:5) DATA NOT AVAILABLE
 :R97A:6) DATA NOT AVAILABLE
 :R97A:3) MSC 587(FA4) TITAN III C SRM (NBETP)
 :R97A:4) MSC 587(FA4) TITAN III C SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

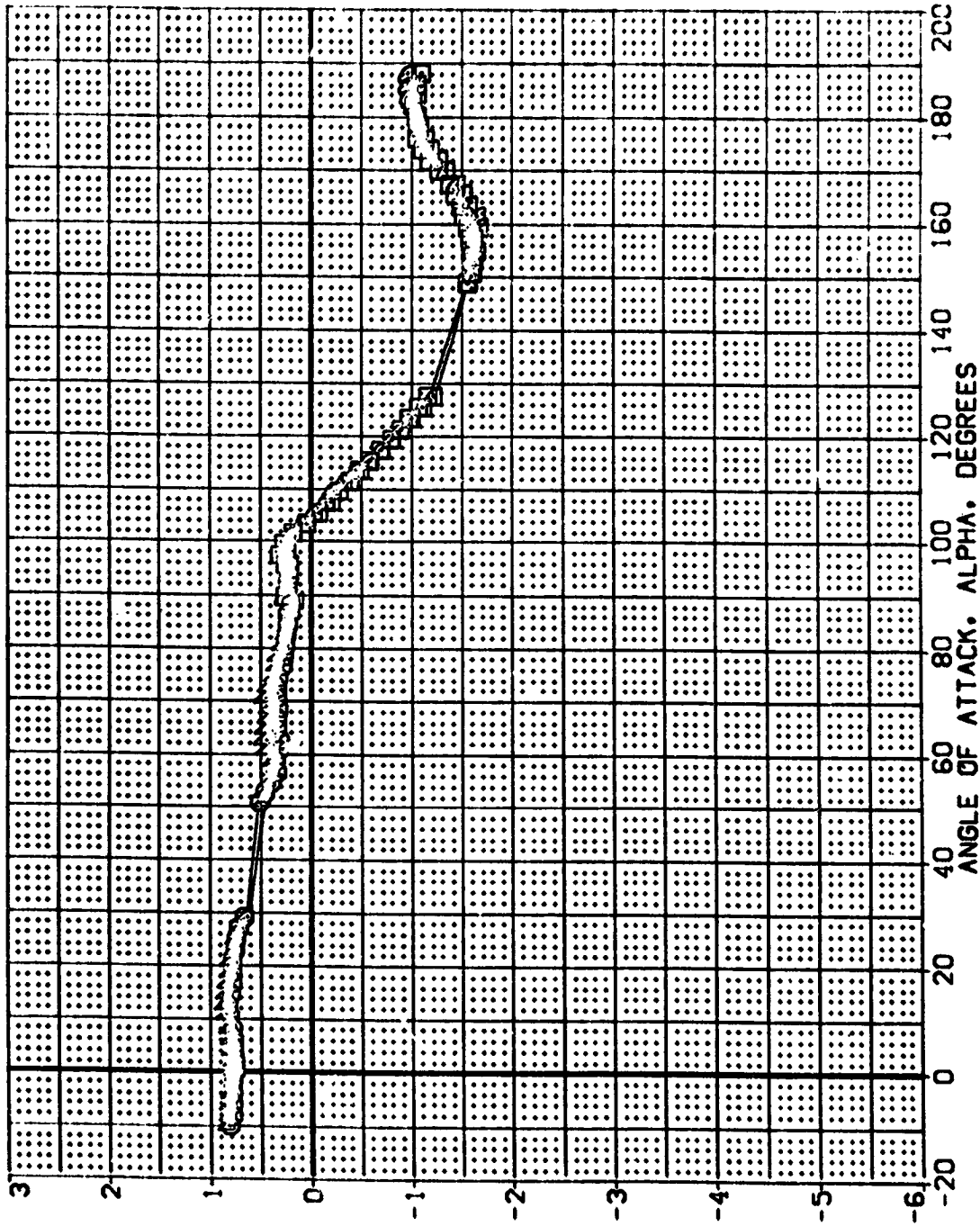
CA/MACH = .59

DATA SET SYMBOL
 (RST7A:7)
 (RST7A:8)
 (RST7A:5)
 (RST7A:6)
 (RST7A:3)
 (RST7A:4)

CONFIGURATION DESCRIPTION
 MSFC 587(F44) TITAN III C SRM (NBETP)
 MSFC 587(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(F44) TITAN III C SRM (NBETP)
 MSFC 587(F44) TITAN III C SRM (NBETP)

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SQ. IN.
 LBREF .5000 IN.
 XBREF .5000 IN.
 YMRP 4.6330 IN.
 ZMRP .0000 IN.
 SCALE .0074



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

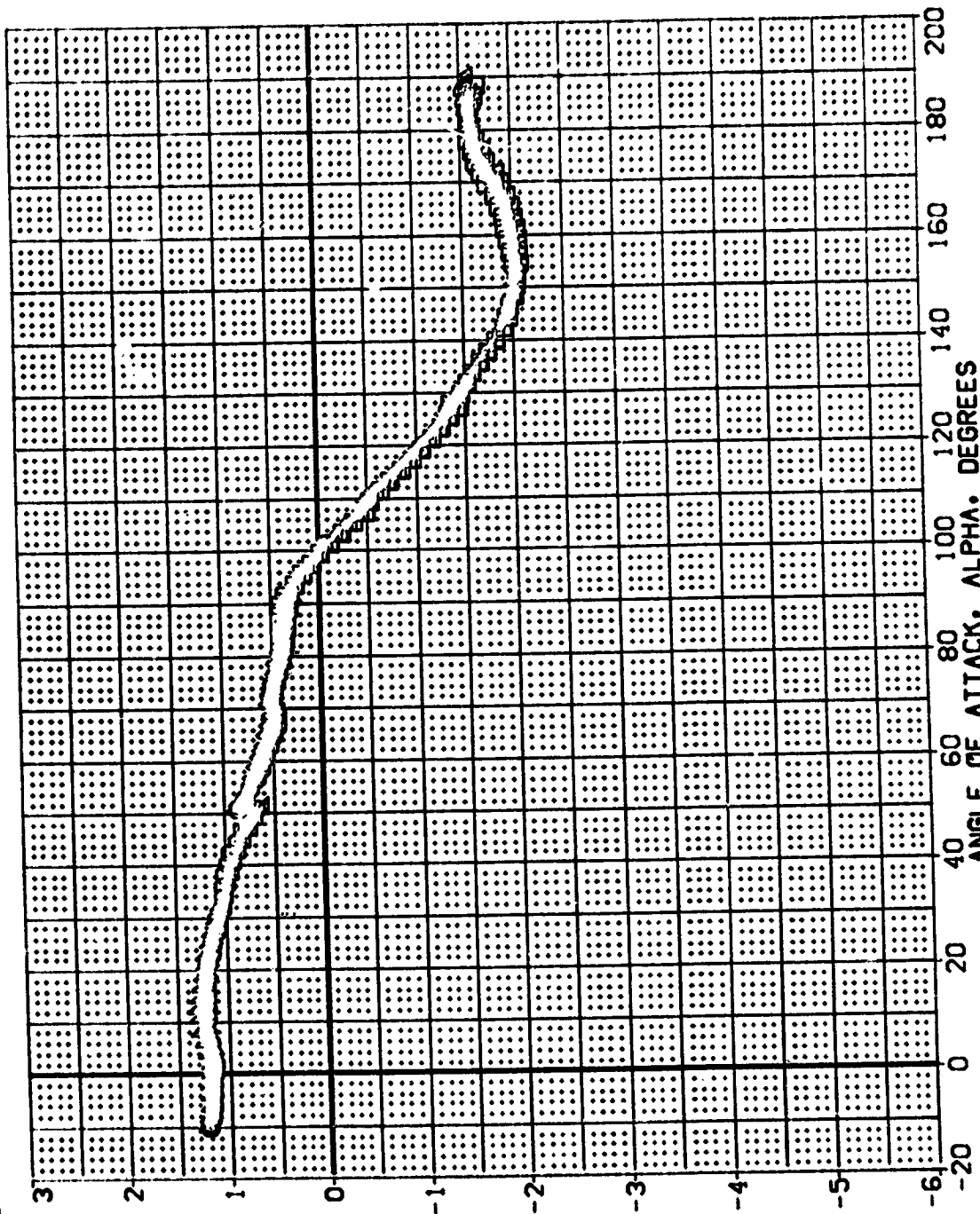
REFERENCE INFORMATION
 SC: IN
 .6360
 .5000
 .9000
 4.6330
 .0000
 .0000
 .0000
 .0074

SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

BETA PHI
 .000 180.000
 .000 180.000
 .000 200.500
 .000 200.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION
 SRM (NBETP)
 SRM (NBETP)
 SRM (NBETP)
 SRM (NBETP)
 SRM (NBETP)
 SRM (NBETP)
 SRM (NBETP)

DATA S: SYSC
 0
 8
 5
 6
 3
 4



AXIAL FORCE COEFFICIENT, CA

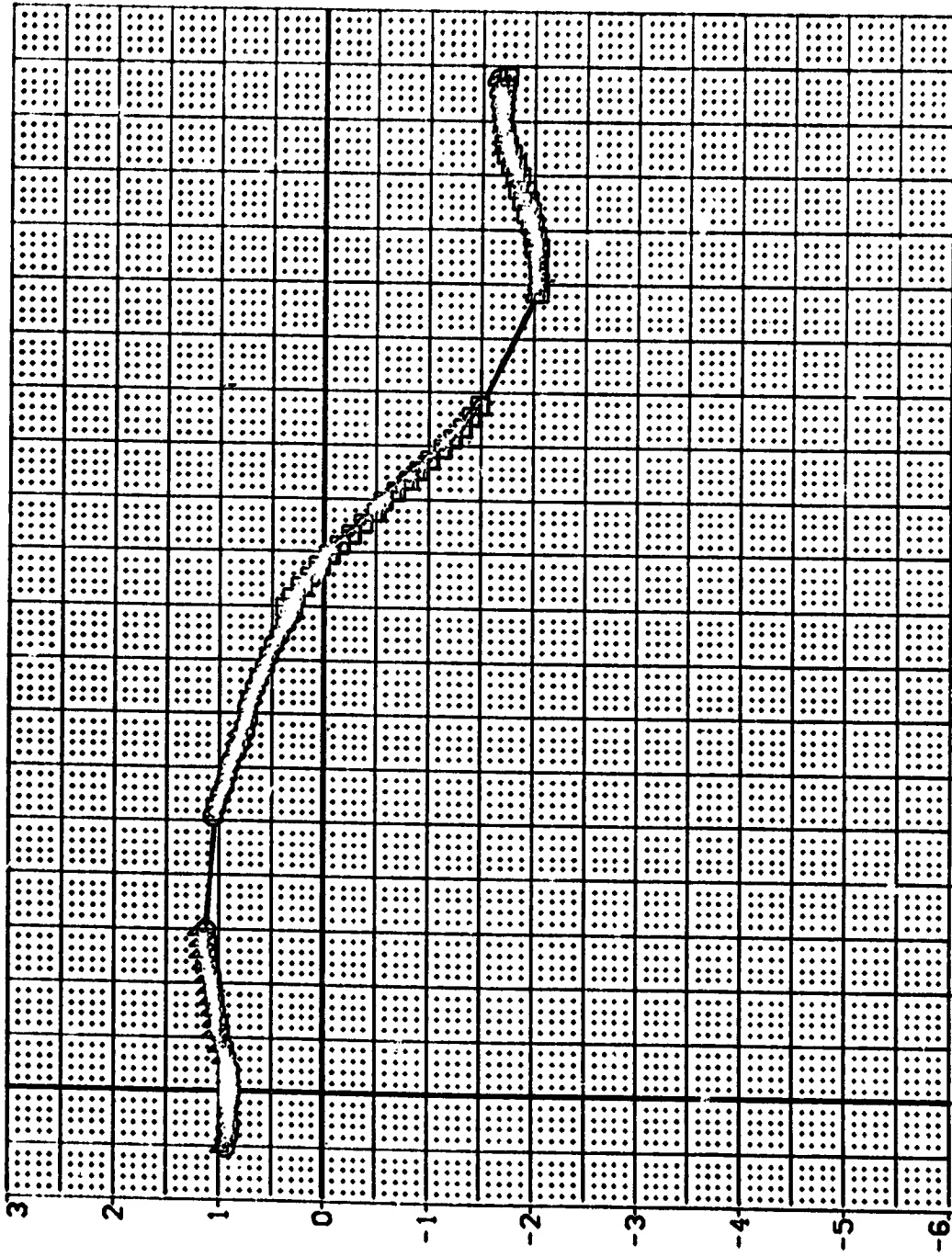
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 1.19

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 [R97A:17] MSC C 587(F44) TITAN III C SRM (NBETP)
 [R97A:18] MSC C 587(F44) TITAN III C SRM (NBETP)
 [R97A:19] DATA NOT AVAILABLE
 [R97A:20] DATA NOT AVAILABLE
 [R97A:21] MSC C 587(F44) TITAN III C SRM (NBETP)
 [R97A:22] MSC C 587(F44) TITAN III C SRM (NBETP)

BETA (RH)
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SC. IN
 LREF .9000 IN.
 BREF .9000 IN.
 XMRP .6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



AXIAL FORCE COEFFICIENT, CA

ANGLE OF ATTACK, ALPHA, DEGREES

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COMACH = 1.96

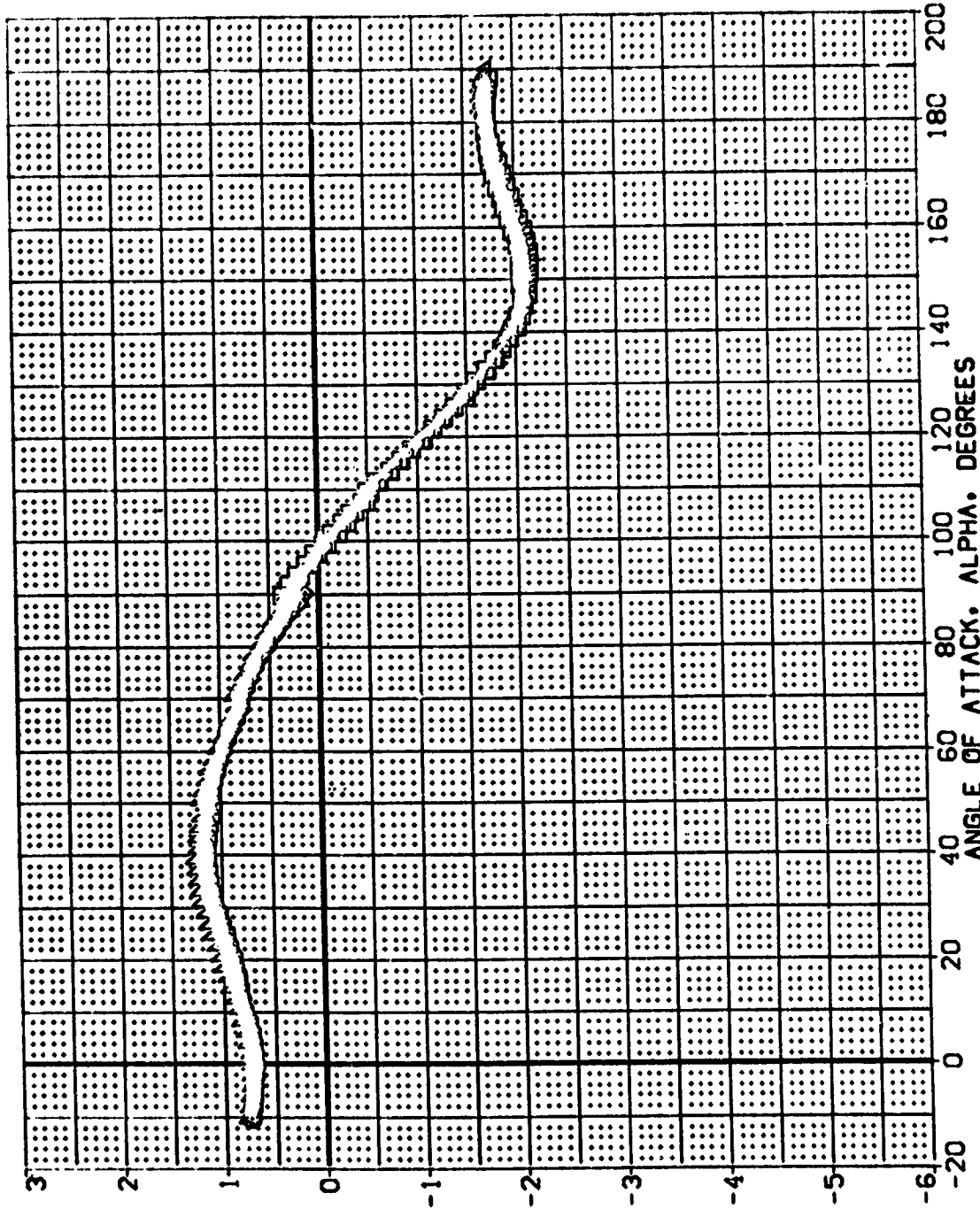


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF .9000 IN
 BREF .9000 IN
 XMRP 4.6330 IN
 YMRP .0000 IN
 ZMRP .0000 IN
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 087A17 5 C C C C C SRM (NBETP)
 087A18 5 C C C C C SRM (NBETP)
 087A19 5 C C C C C SRM (NBETP)
 087A20 5 C C C C C SRM (NBETP)
 087A21 5 C C C C C SRM (NBETP)
 087A22 5 C C C C C SRM (NBETP)
 087A23 5 C C C C C SRM (NBETP)
 087A24 5 C C C C C SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJMACH = 3.48

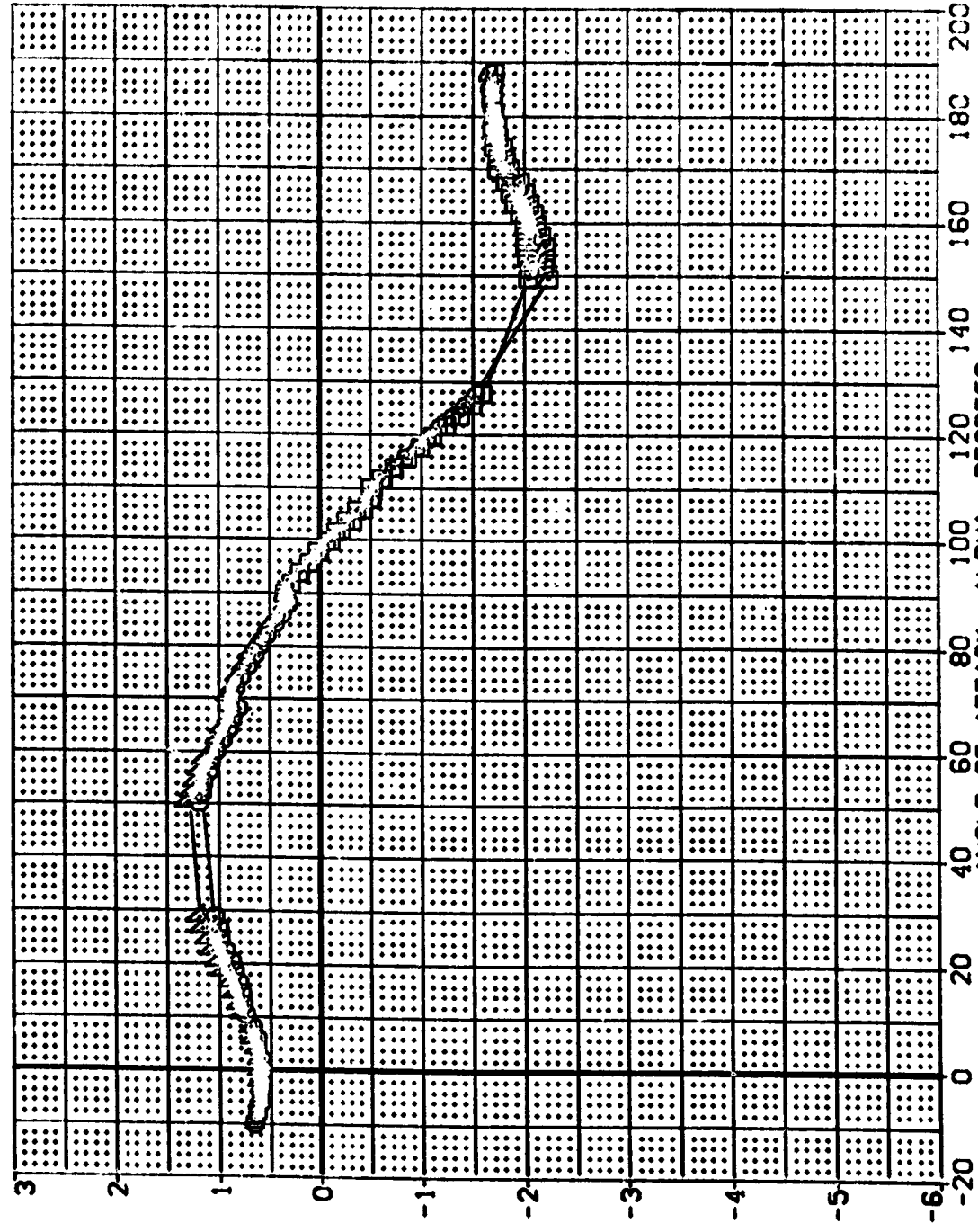
DATA SET SYMBOL
 (R57A17)
 (R57A18)
 (R57A15)
 (R57A16)
 (R57A13)
 (R57A14)

CONFIGURATION DESCRIPTION
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
 .000 180.000
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 .000 202.500
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 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .5000 IN.
 BRPF .5000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

AXIAL FORCE COEFFICIENT, CA



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

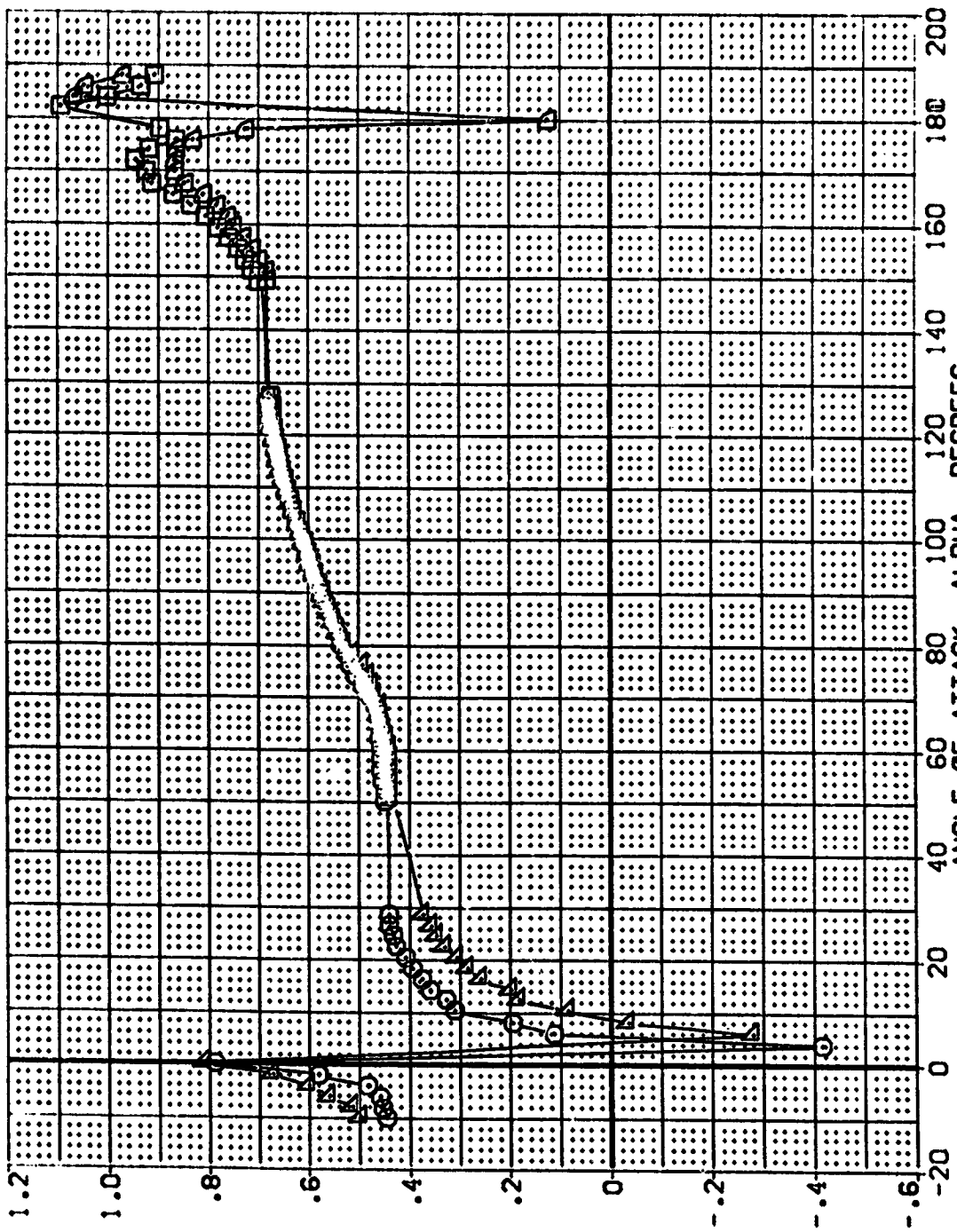


REFERENCE INFORMATION
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 LBREF 8000 IN.
 BRREF 9000 IN.
 XMRP 6330 IN.
 YMRP 0000 IN.
 ZMRP 0000 IN.
 SCALE 0074

BETA FM1
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 275.000

CONFIGURATION DESCRIPTION
 MSC 587(F44) TITAN III C SRM (NBETP)
 MSC 587(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 MSC 587(F44) TITAN III C SRM (NBETP)
 MSC 587(F44) TITAN III C SRM (NBETP)

DATA SET SYMBOL
 RSTA:7
 RSTA:8
 RSTA:5
 RSTA:16
 RSTA:3
 RSTA:4



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CAJ MACH = .59

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[R57A17] MSFC 587(F44) TITAN III C SRM (NBETP)

[R57A18] MSFC 587(F44) TITAN III C SRM (NBETP)

[R57A15] DATA NOT AVAILABLE

[R57A16] DATA NOT AVAILABLE

[R57A13] MSFC 587(F44) TITAN III C SRM (NBETP)

[R57A14] MSFC 587(F44) TITAN III C SRM (NBETP)

BETA PHI

.000 180.000

.000 180.000

.000 202.500

.000 202.500

.000 225.000

.000 225.000

REFERENCE INFORMATION

SREF 5360 SQ IN

REF 5000

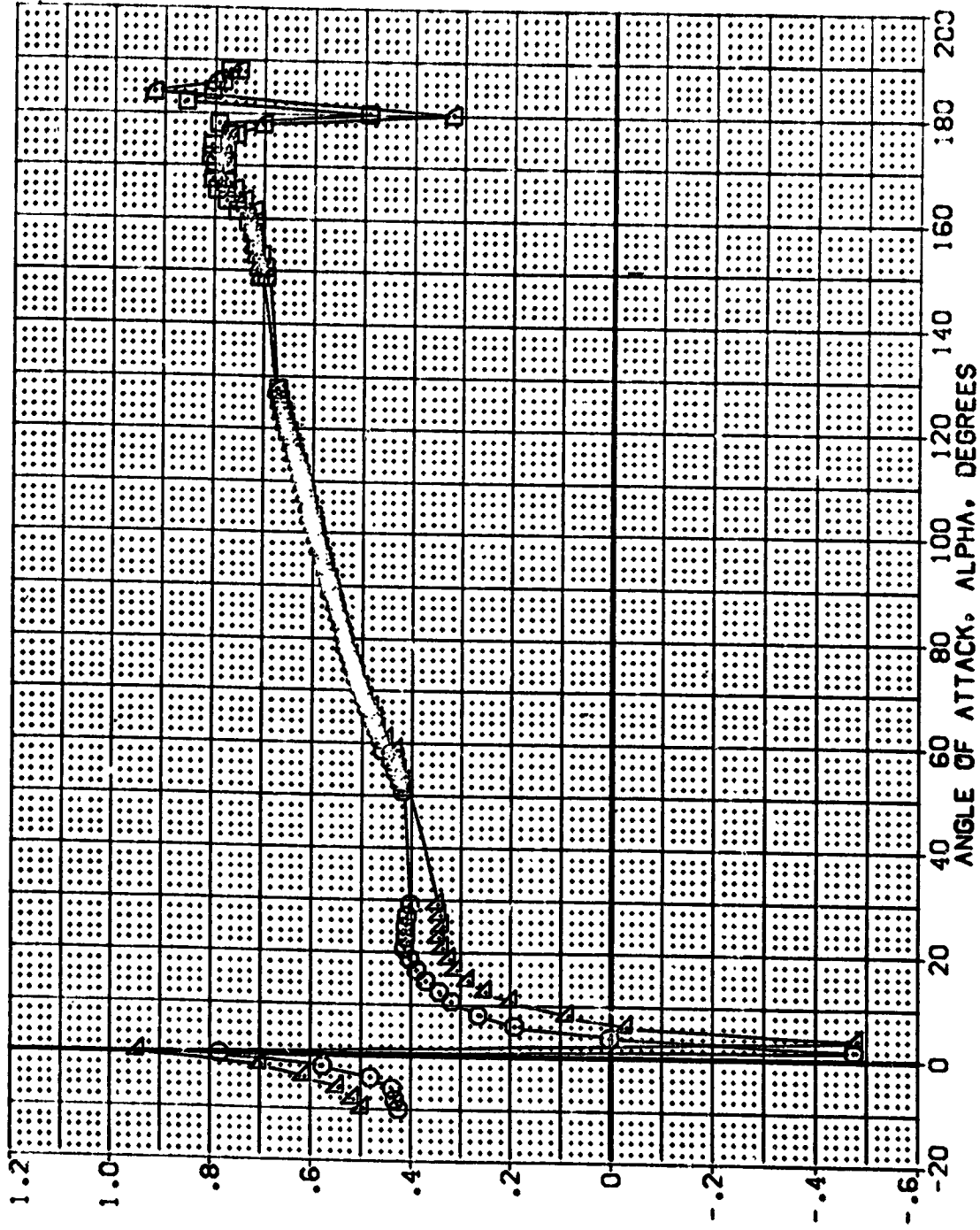
BREF 5000

XMRP 4.6330

YMRP .0000

ZMRP .0000

SCALE .0074



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

PAGE

44

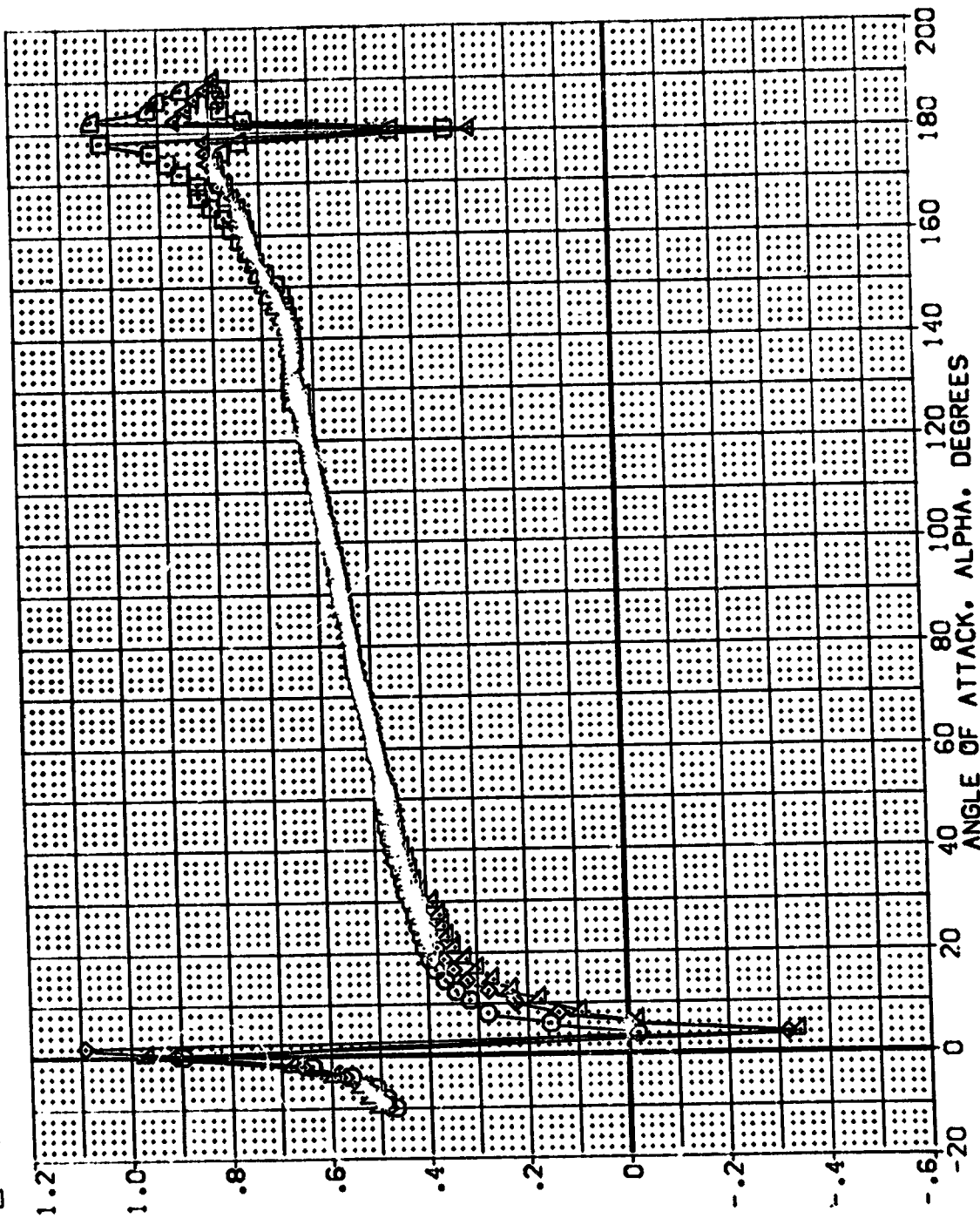


REFERENCE INFORMATION
 SREF .6360
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 BREF .5000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)

DATA SET SYMBOL
 [RSTA 7]
 [RSTA 8]
 [RSTA 5]
 [RSTA 3]
 [RSTA 14]



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

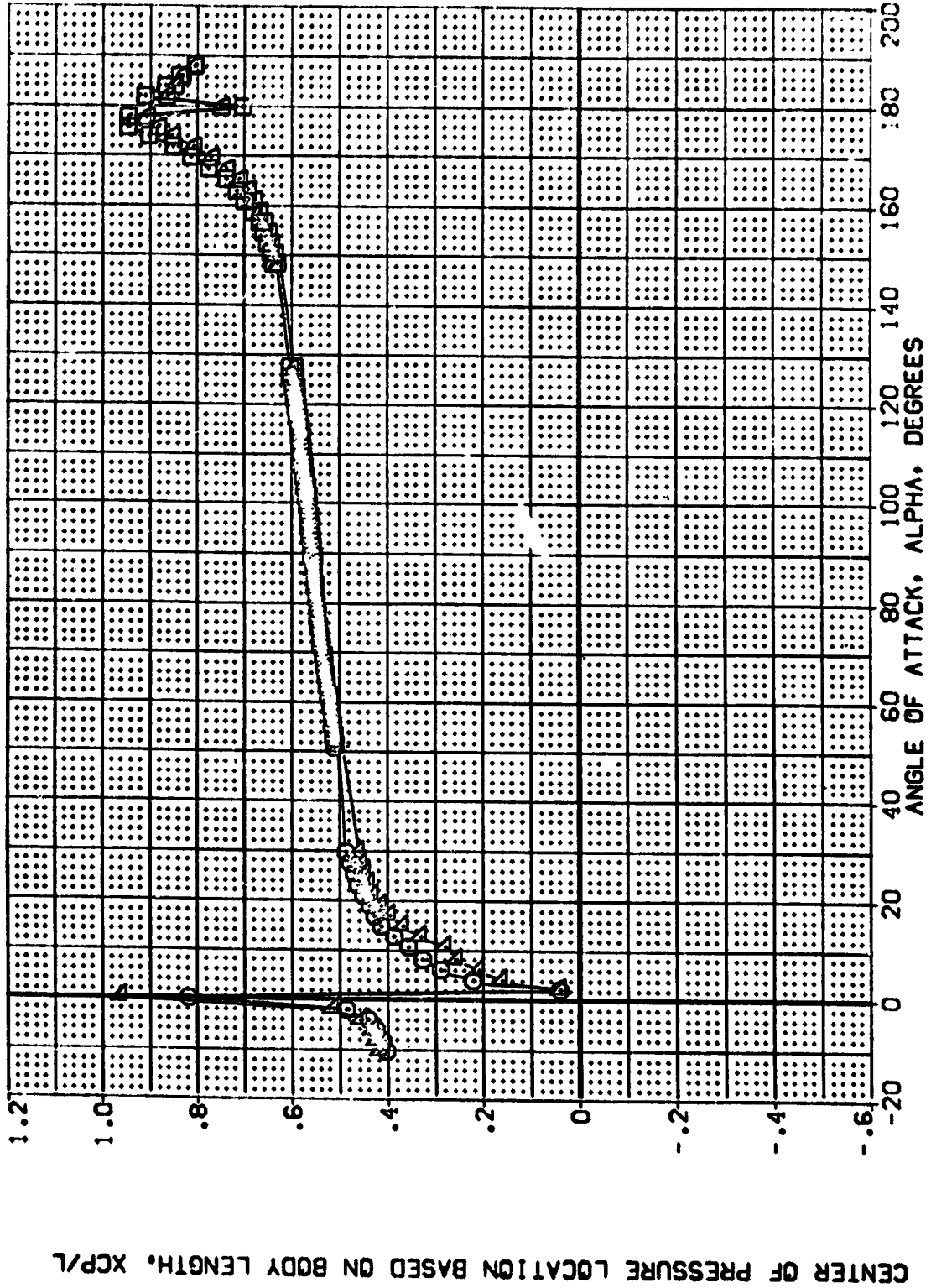
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.19

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 [R57A18] NSFC 587(F44) TITAN III C SRM (NBETP)
 [R57A15] DATA NOT AVAILABLE
 [R57A16] DATA NOT AVAILABLE
 [R57A13] NSFC 587(F44) TITAN III C SRM (NBETP)
 [R57A14] NSFC 587(F44) TITAN III C SRM (NBETP)

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SQ. IN.
 LREF .5000 IN.
 BREF .5000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(D)MACH = 1.96

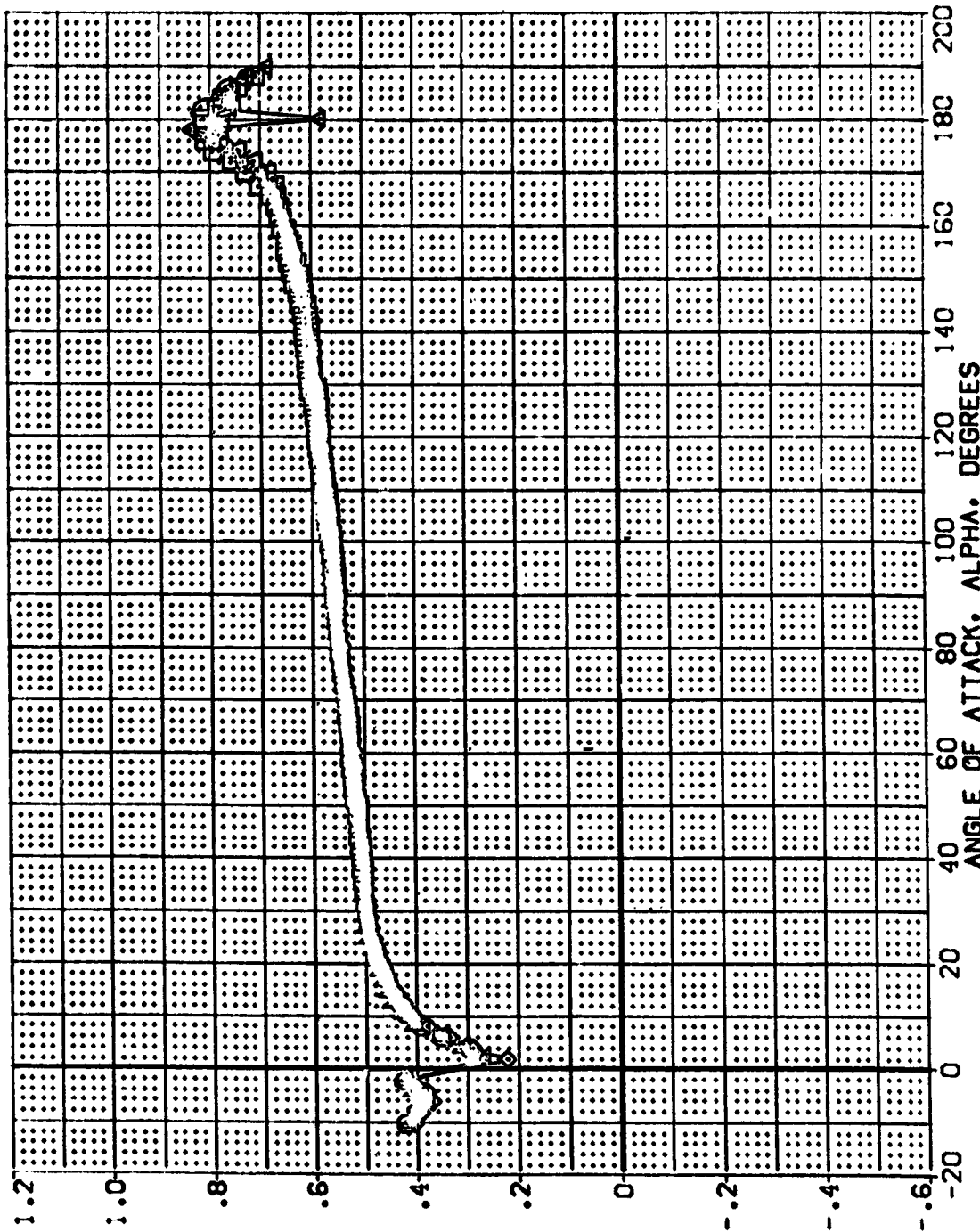


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION SRM (NBETP)
 R57A 17 0 MS C 587(FA4) TITAN III C SRM (NBETP)
 R57A 18 0 MS C 587(FA4) TITAN III C SRM (NBETP)
 R57A 19 0 MS C 587(FA4) TITAN III C SRM (NBETP)
 R57A 20 0 MS C 587(FA4) TITAN III C SRM (NBETP)
 R57A 21 0 MS C 587(FA4) TITAN III C SRM (NBETP)
 R57A 22 0 MS C 587(FA4) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

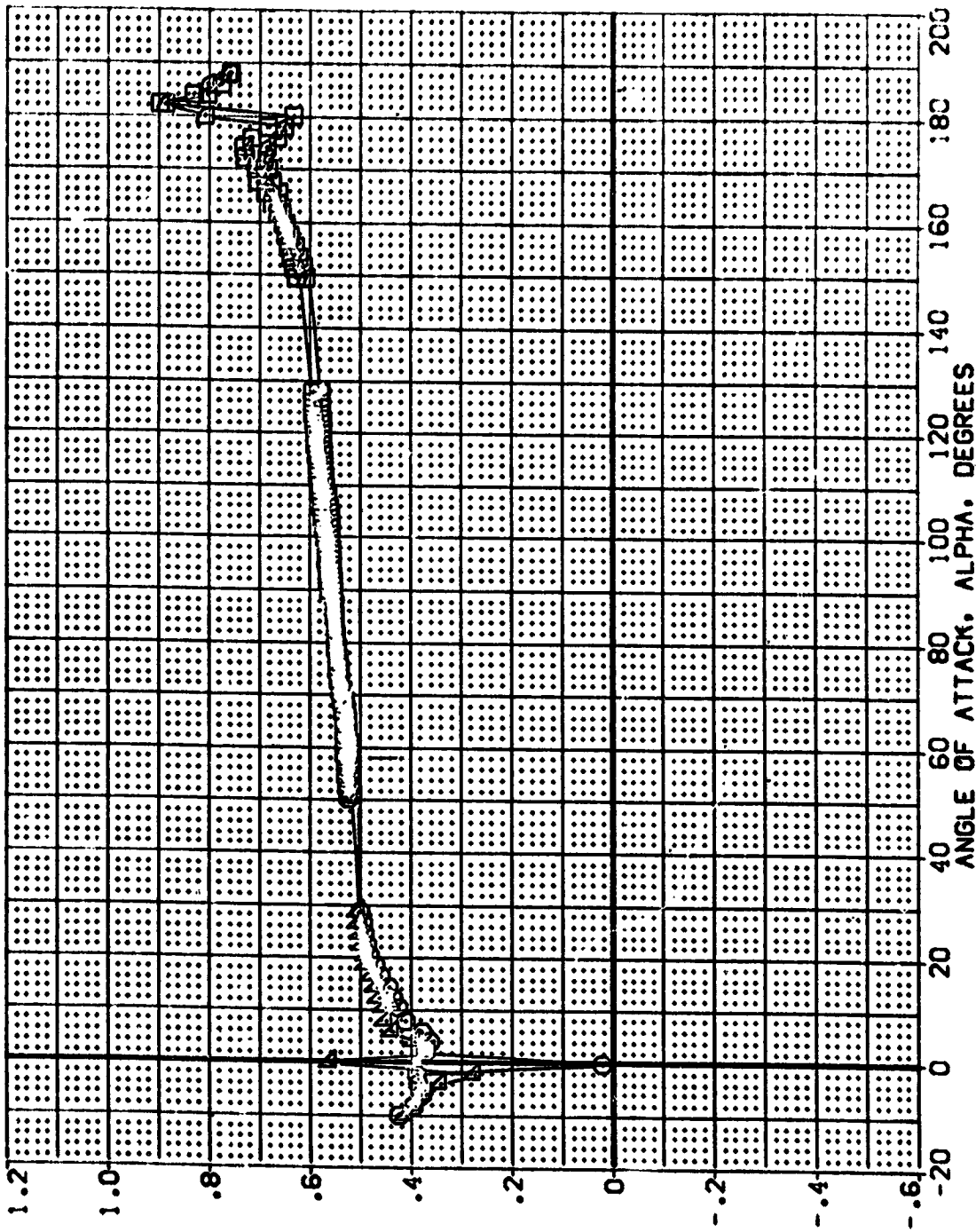
(E)MACH = 3.48

DATA SET SYMBOL: [RSTA17], [RSTA18], [RSTA19], [RSTA20], [RSTA21], [RSTA22], [RSTA23], [RSTA24]

CONFIGURATION DESCRIPTION: MSC 587(F44) TITAN III C SRM (NBETP), MSC 587(F44) TITAN III C SRM (NBETP), DATA NOT AVAILABLE, MSC 587(F44) TITAN III C SRM (NBETP), MSC 587(F44) TITAN III C SRM (NBETP)

BETA PHI: .000 180.000, .000 180.000, .000 202.500, .000 202.500, .000 225.000, .000 225.000

REFERENCE INFORMATION: SREF .6360 SO. IN., LREF .5000 IN., BREF .9000 IN., XMRP 4.6330 IN., YMRP .0000 IN., ZMRP .0000 IN., SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

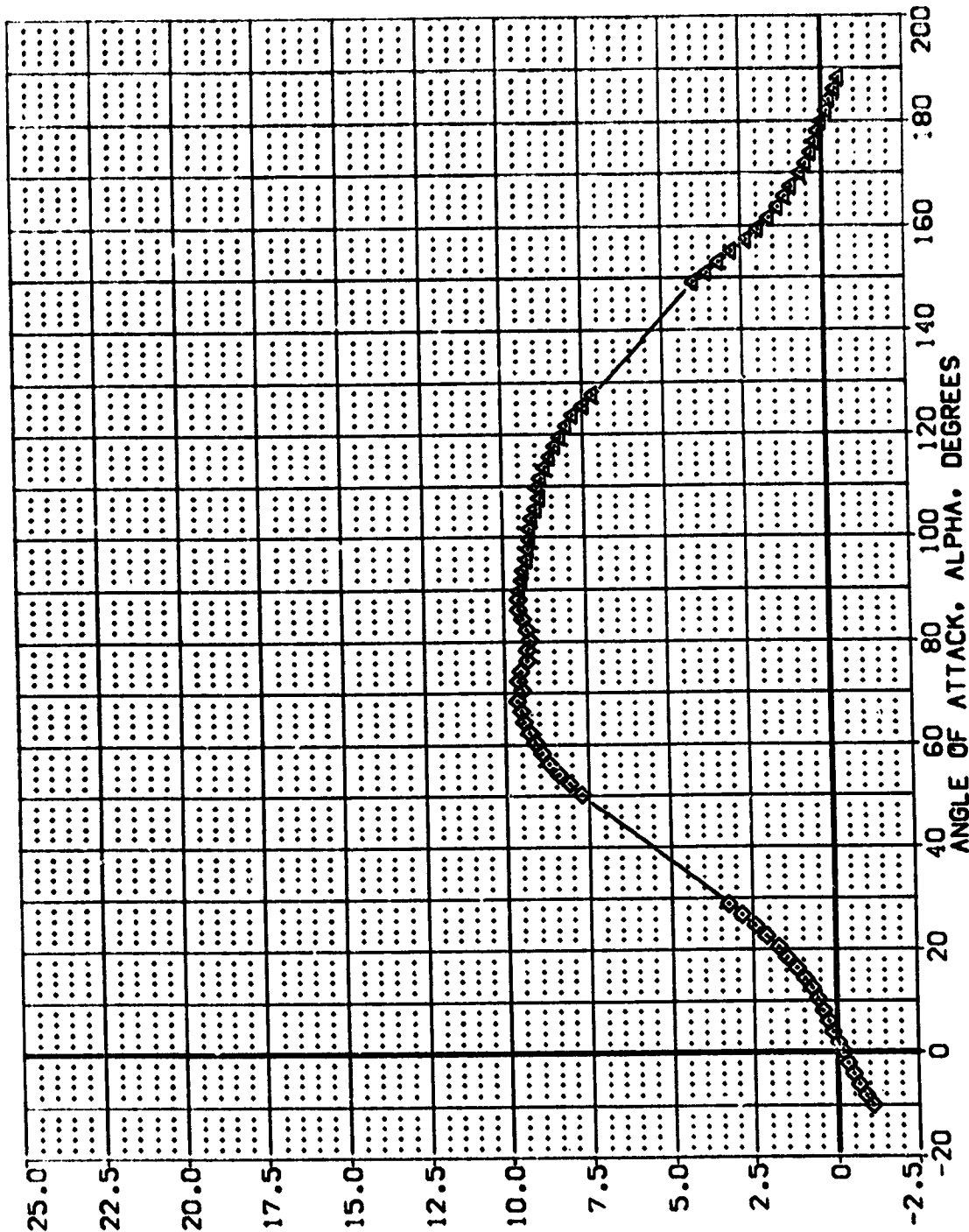


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 BREF .9200
 XMRP 4.6360
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
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 .000 247.500
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 :RSTA13 : DATA NOT AVAILABLE
 :RSTA14 : MSC 587(FA4) TITAN III C SRM (NBETP)
 :RSTA15 : MSC 587(FA4) TITAN III C SRM (NBETP)
 :RSTA16 : DATA NOT AVAILABLE
 :RSTA17 : DATA NOT AVAILABLE
 :RSTA18 : DATA NOT AVAILABLE



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

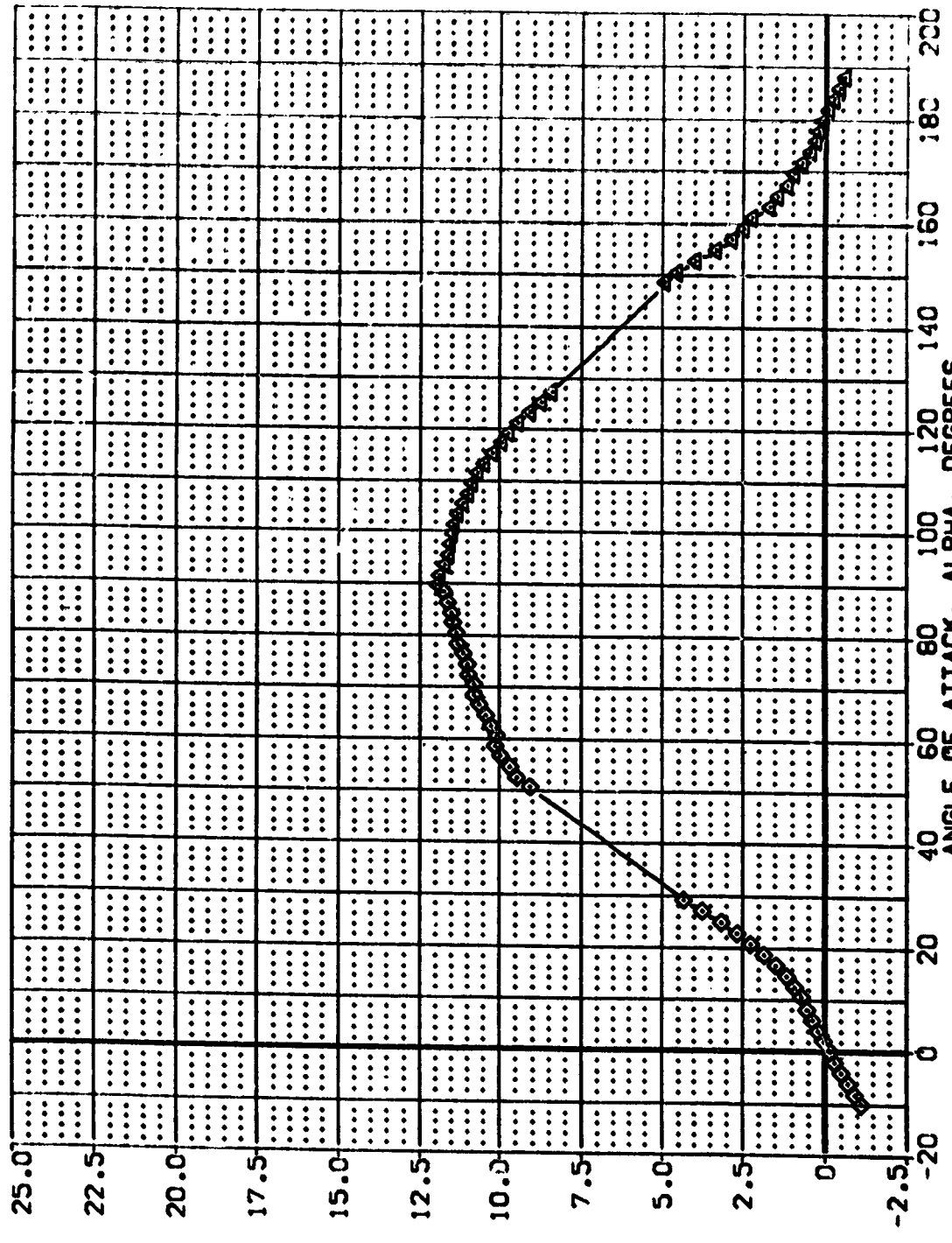
CAJMACH = .60

REFERENCE INFORMATION
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 BRFC 9000
 XMRP 4.6300
 YMRP 0000
 ZMRP 0000
 SCALE 0074

BETA PHI
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC 587(FM) TITAN III C SRM (NBETP)
 MSC 587(FM) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

DATA SET SYMBOL
 (P87A11)
 (P87A12)
 (P87A23)
 (P87A24)
 (P87A25)
 (P87A26)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

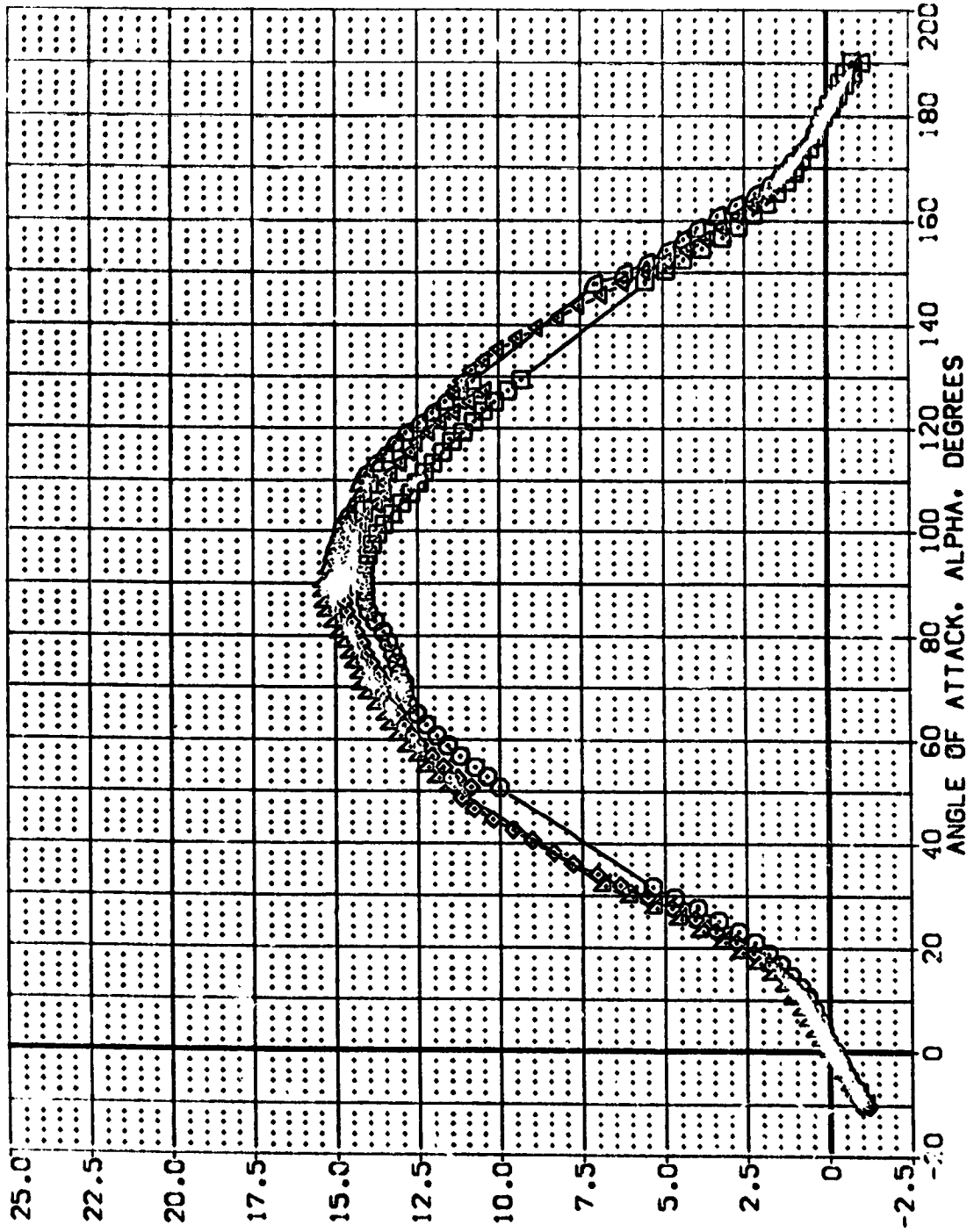


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF 5000
 BREF 5000
 YMRP 4 6330
 ZMRP 5000
 SCALE 0000 DD74

BETA (PHI)
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[R7A11] DATA NOT AVAILABLE
 [R7A12] DATA NOT AVAILABLE
 [R7A13] SFC 587(F44) TITAN III C SRM (NBETP)
 [R7A14] SFC 587(F44) TITAN III C SRM (NBETP)
 [R7A15] DATA NOT AVAILABLE
 [R7A16] DATA NOT AVAILABLE

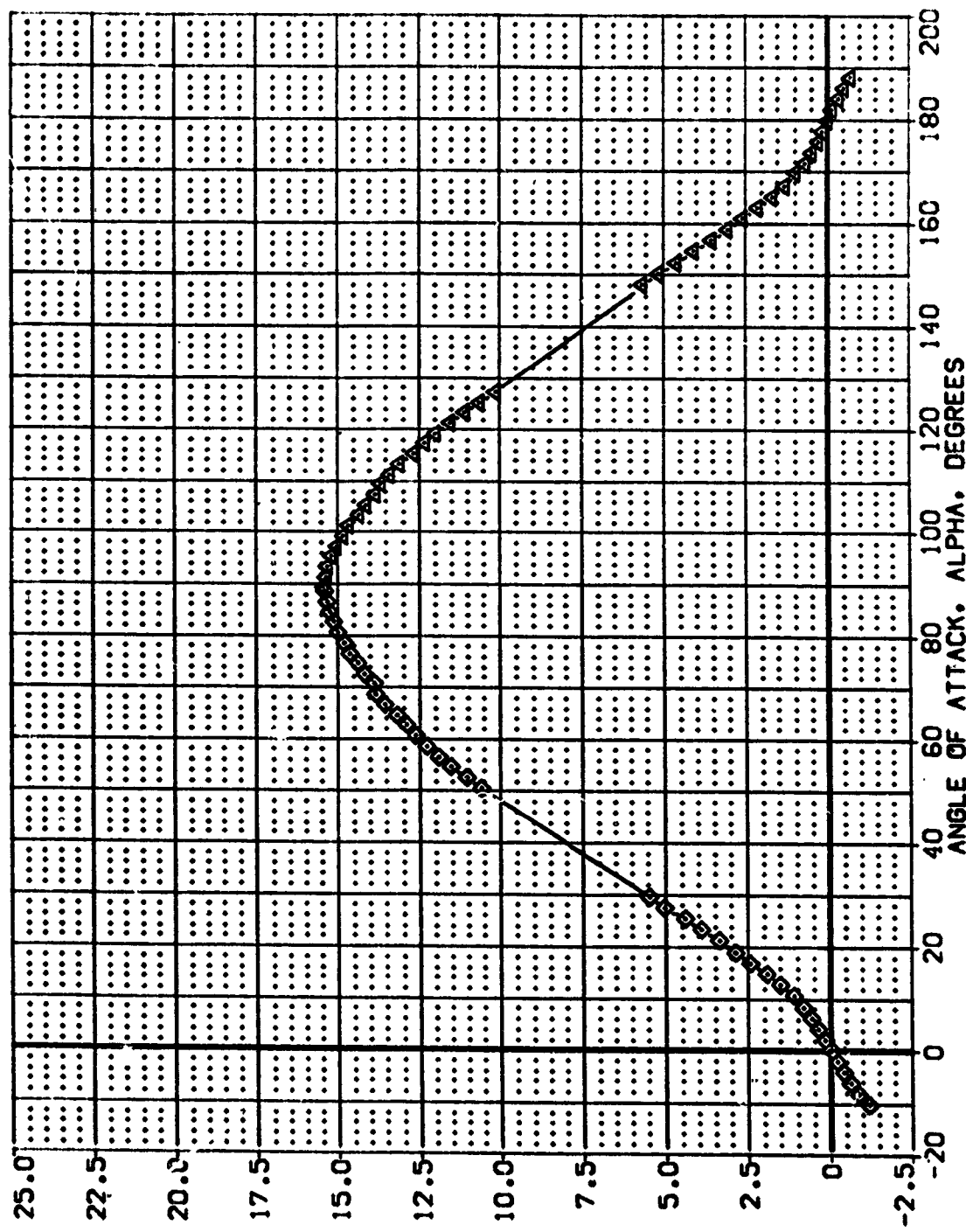
BETA PHI

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REFERENCE INFORMATION

SREF 6360
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 BREF 9000
 XMRP 6360
 YMRP 0000
 ZMRP 0000
 SCALE 0074

MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CD)MACH = 1.96

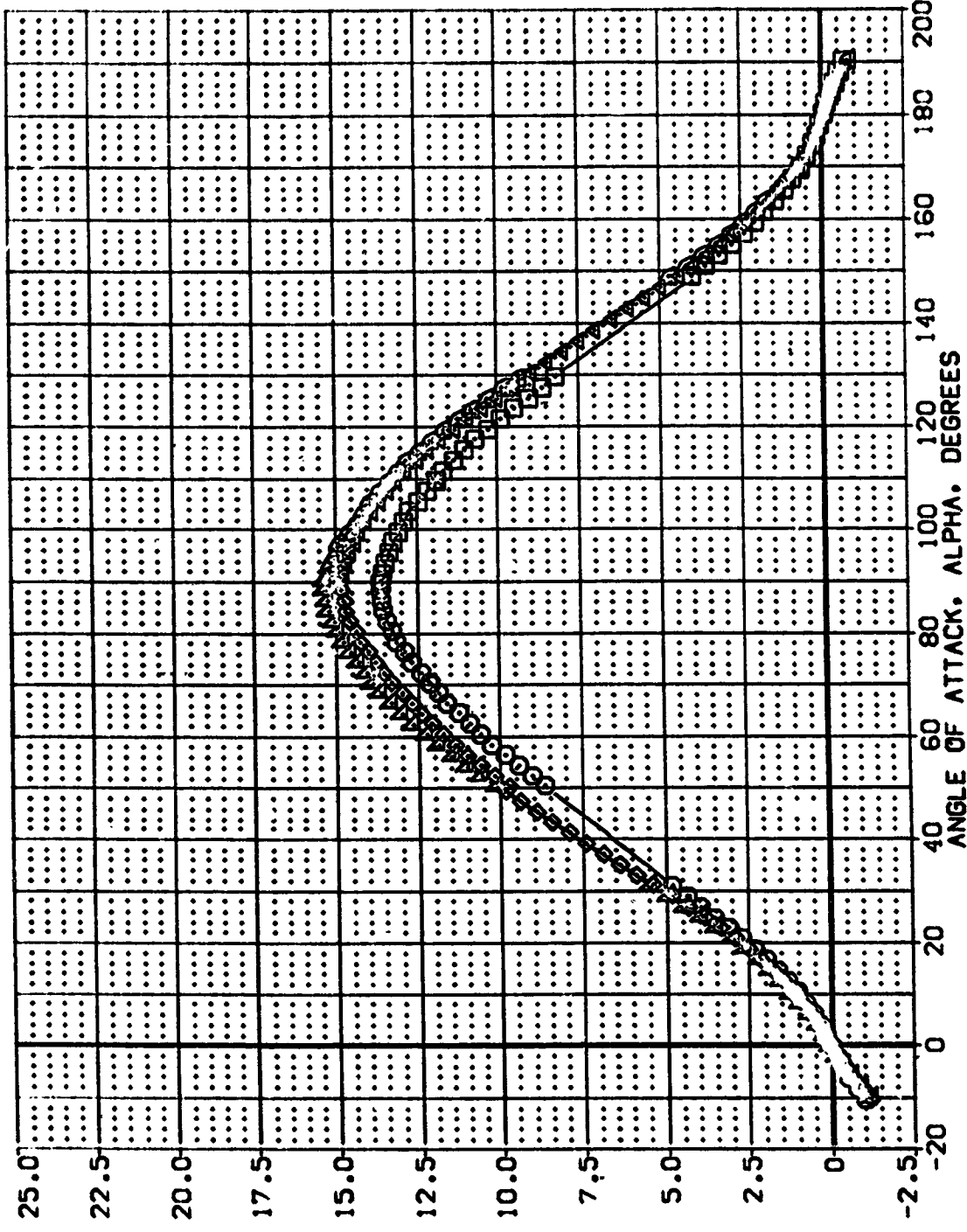


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF 5000 IN.
 BREF 5000 IN.
 XMRP 4.6336 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0074

BETA (PH)
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 .000 217.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMB. CONF. I.G. URATION DESCRIPTION
 :R97A11} :SFC 567(FA4) TITAN III C SRM (NBETP)
 :R97A12} :SFC 567(FA4) TITAN III C SRM (NBETP)
 :R97A13} :SFC 567(FA4) TITAN III C SRM (NBETP)
 :R97A14} :SFC 567(FA4) TITAN III C SRM (NBETP)
 :R97A15} :SFC 567(FA4) TITAN III C SRM (NBETP)
 :R97A16} :SFC 567(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

DATA SET SYMB. CONFIGURATION DESCRIPTION

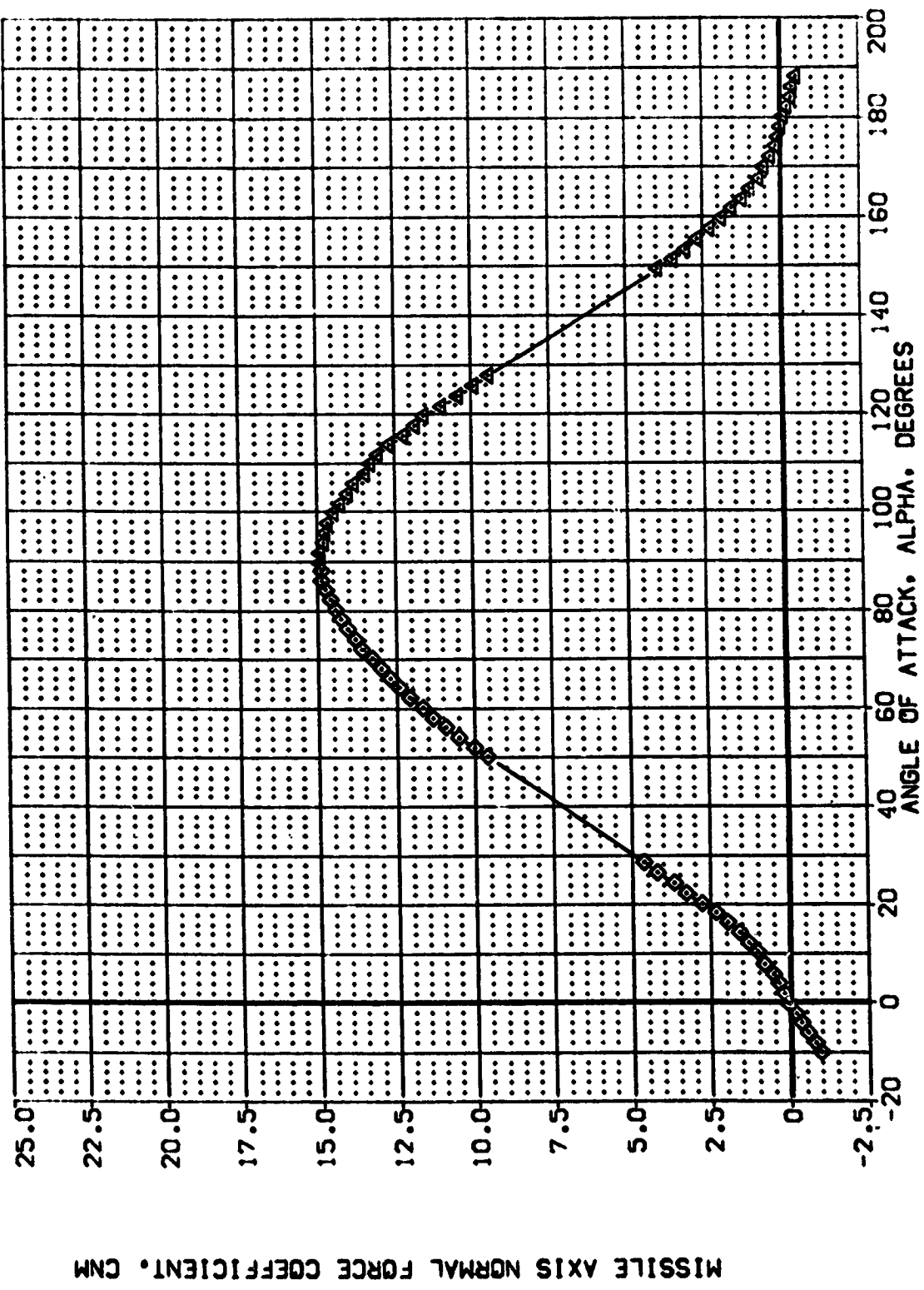
:R57A1:1] DATA NOT AVAILABLE
 :R57A1:2] DATA NOT AVAILABLE
 :R57A1:3] MSFC 587(FA4) TITAN III C SRM (NBETP)
 :R57A1:4] MSFC 587(FA4) TITAN III C SRM (NBETP)
 :R57A1:5] DATA NOT AVAILABLE
 :R57A1:6] DATA NOT AVAILABLE
 :R57A1:7] DATA NOT AVAILABLE

BETA PHI

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 .000 247.500
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 .000 282.500

REFERENCE INFORMATION

SREF .6360 50. IN.
 LREF .5000 IN.
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 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



MISSILE AXIS NORMAL FORCE COEFFICIENT, CM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

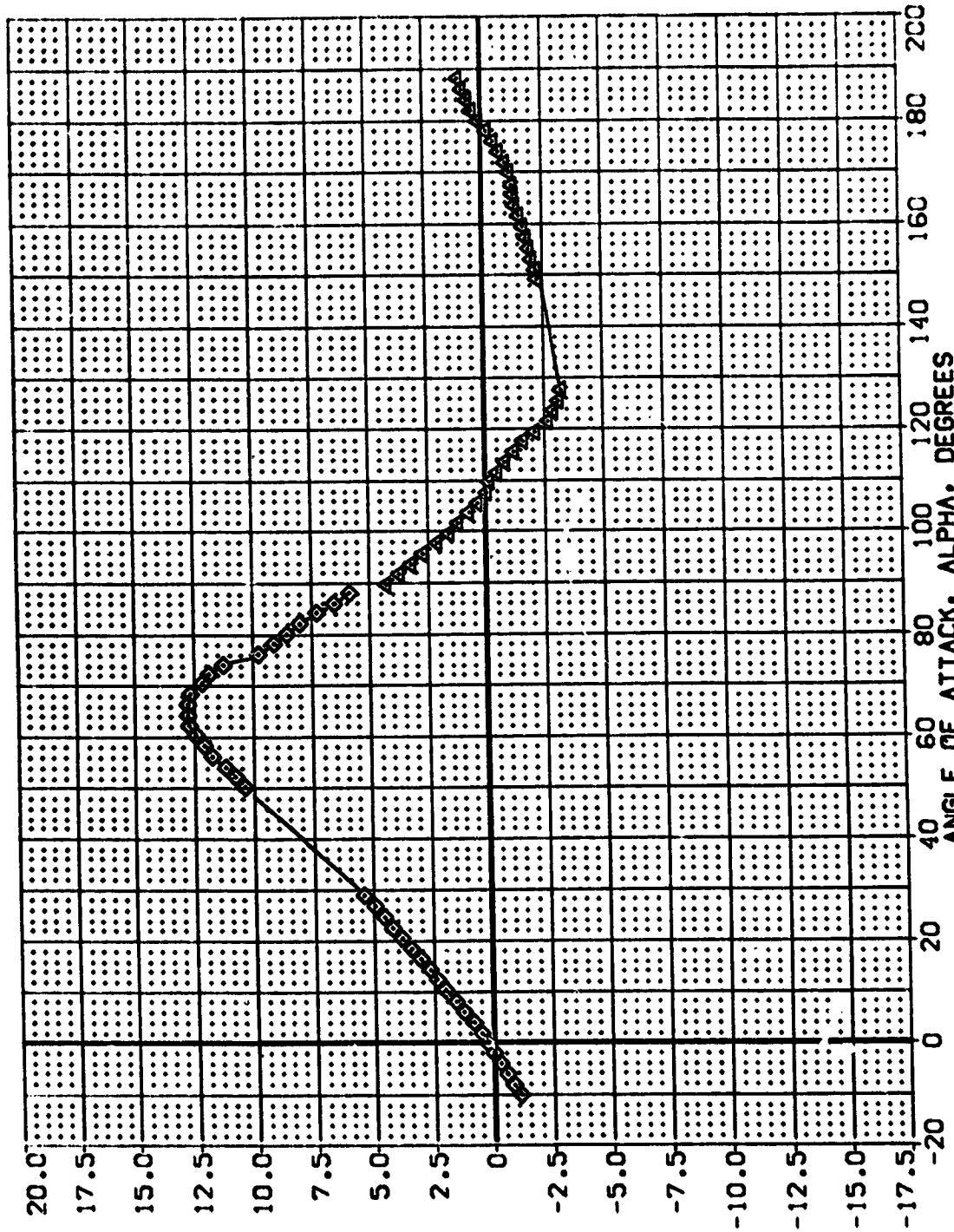


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 .9000
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 SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

BETA PHI
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 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 :R97A:2: : : DATA NOT AVAILABLE
 :R97A:3: : : SFC 5871FA4) TITAN III C SRM (NBETP)
 :R97A:4: : : SFC 5871FA4) TITAN III C SRM (NBETP)
 :R97A:5: : : DATA NOT AVAILABLE
 :R97A:6: : : DATA NOT AVAILABLE



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

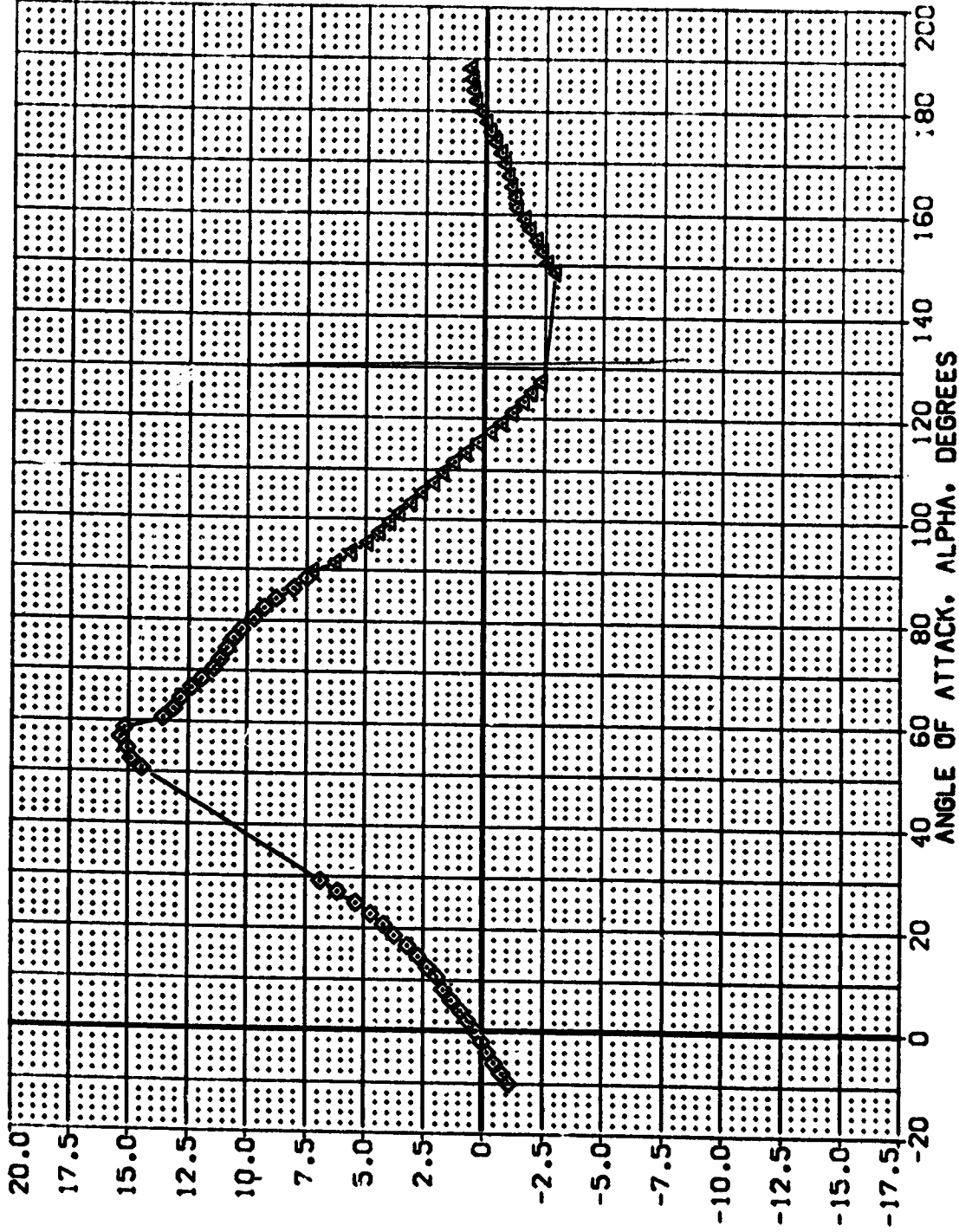
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RSTA11] DATA NOT AVAILABLE
 [RSTA12] DATA NOT AVAILABLE
 [RSTA13] MSEC 587(FAA) TITAN III C SRM (NBETP)
 [RSTA14] MSEC 587(FAA) TITAN III C SRM (NBETP)
 [RSTA15] DATA NOT AVAILABLE
 [RSTA16] DATA NOT AVAILABLE
 [RSTA17] DATA NOT AVAILABLE
 [RSTA18] DATA NOT AVAILABLE

BETA PHI
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 .000 247.500
 .000 270.000
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 .000 292.500
 .000 292.500

REFERENCE INFORMATION
 SREF 6360 SQ. IN.
 LREF 8000 IN.
 BREF 8500 IN.
 XMRP 4 IN.
 YMRP 4 IN.
 ZMRP 4 IN.
 SCALE .0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

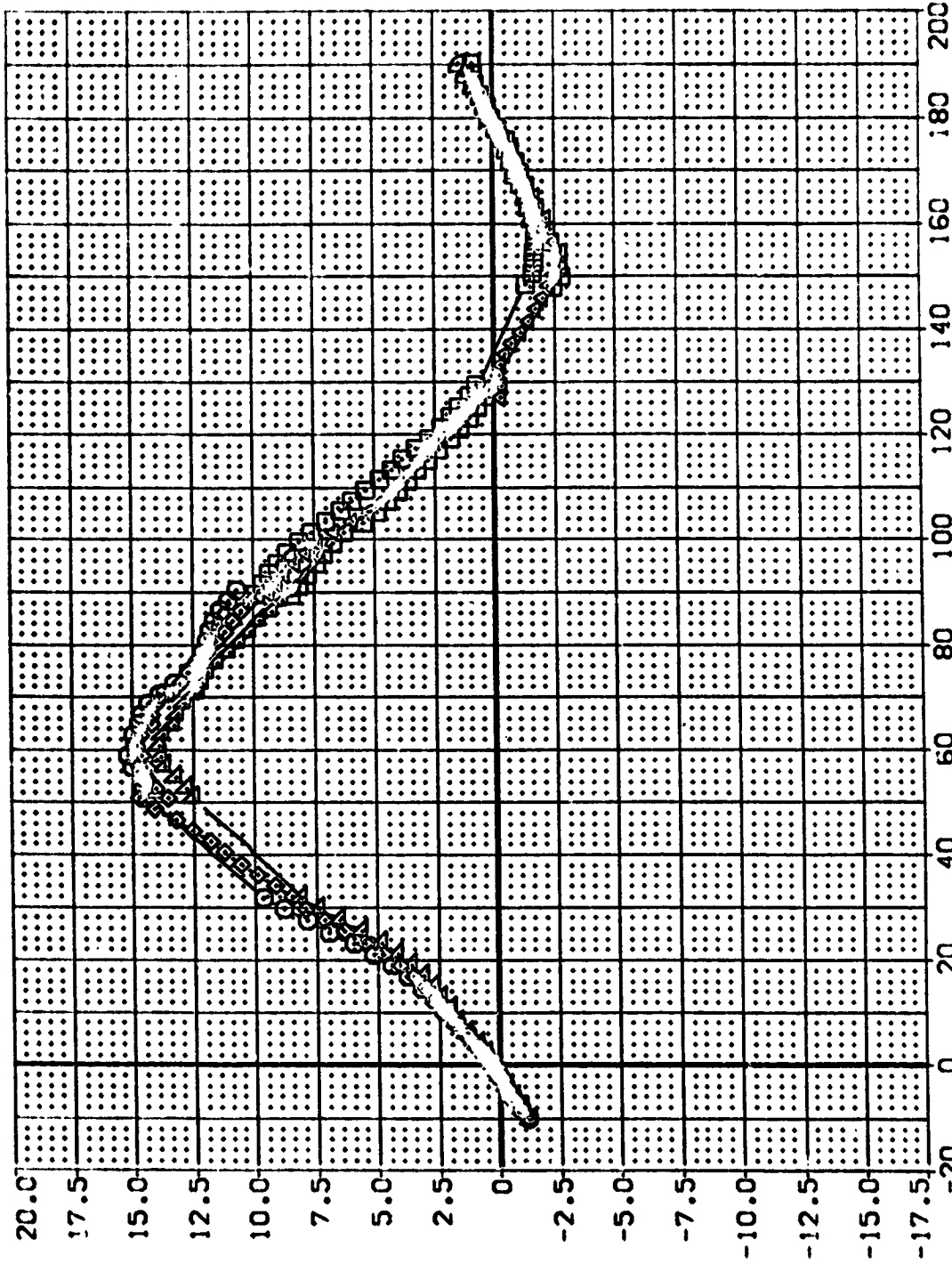


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P87A:1) MS C 587(FA4) TITAN III C SRM (NBETP)
 (P87A:2) MS C 587(FA4) TITAN III C SRM (NBETP)
 (P87A:3) MS C 587(FA4) TITAN III C SRM (NBETP)
 (P87A:4) MS C 587(FA4) TITAN III C SRM (NBETP)
 (P87A:5) MS C 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

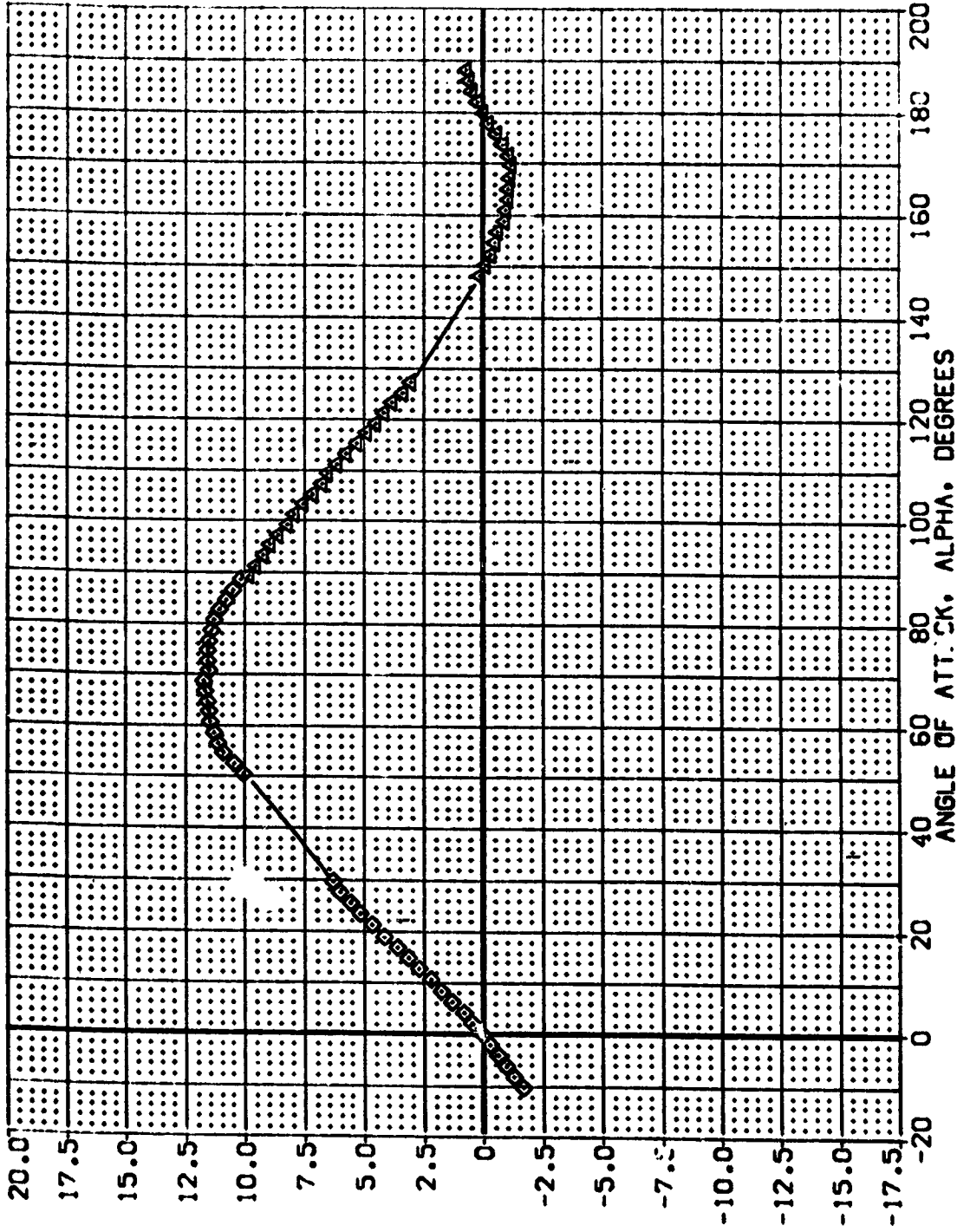
(C)MACH = 1.20

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 (P57A10) MSFC 507(FM4) TITAN III C SRM (NBETP)
 (P57A07) DATA NOT AVAILABLE
 (P57A08) DATA NOT AVAILABLE

BETA PH1
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

REFERENCE INFORMATION
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 LREF .5000 IN.
 BREF .9000 IN.
 XMRP 4.6333 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(0)MACH = 1.96

PAGE 58

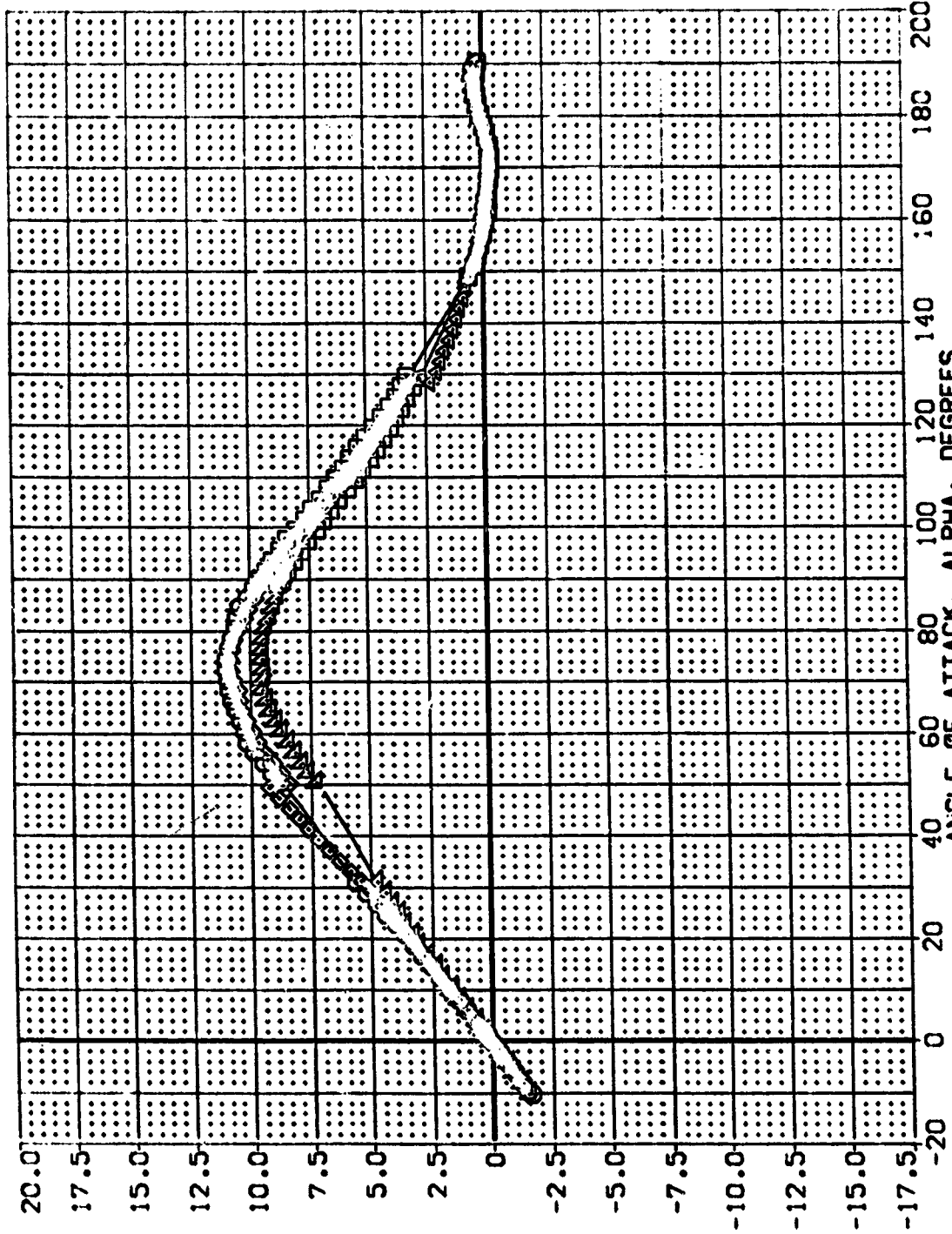


REFERENCE INFORMATION
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 LREF .9000
 BREF .9000
 XMRP 4 .6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA (PI)
 .003 247.500
 .000 247.500
 .000 270.000
 .000 292.500
 .000 292.500

DATA SE SYMBD. CONFIGURATION DESCRIPTION
 .0074 TITAN III C SRM (NBETP)
 .0000 TITAN III C SRM (NBETP)
 .0000 TITAN III C SRM (NBETP)
 .0000 TITAN III C SRM (NBETP)
 .0000 TITAN III C SRM (NBETP)
 .0000 TITAN III C SRM (NBETP)

MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

DATA SET SYMBO. CONFIGURATION DESCRIPTION

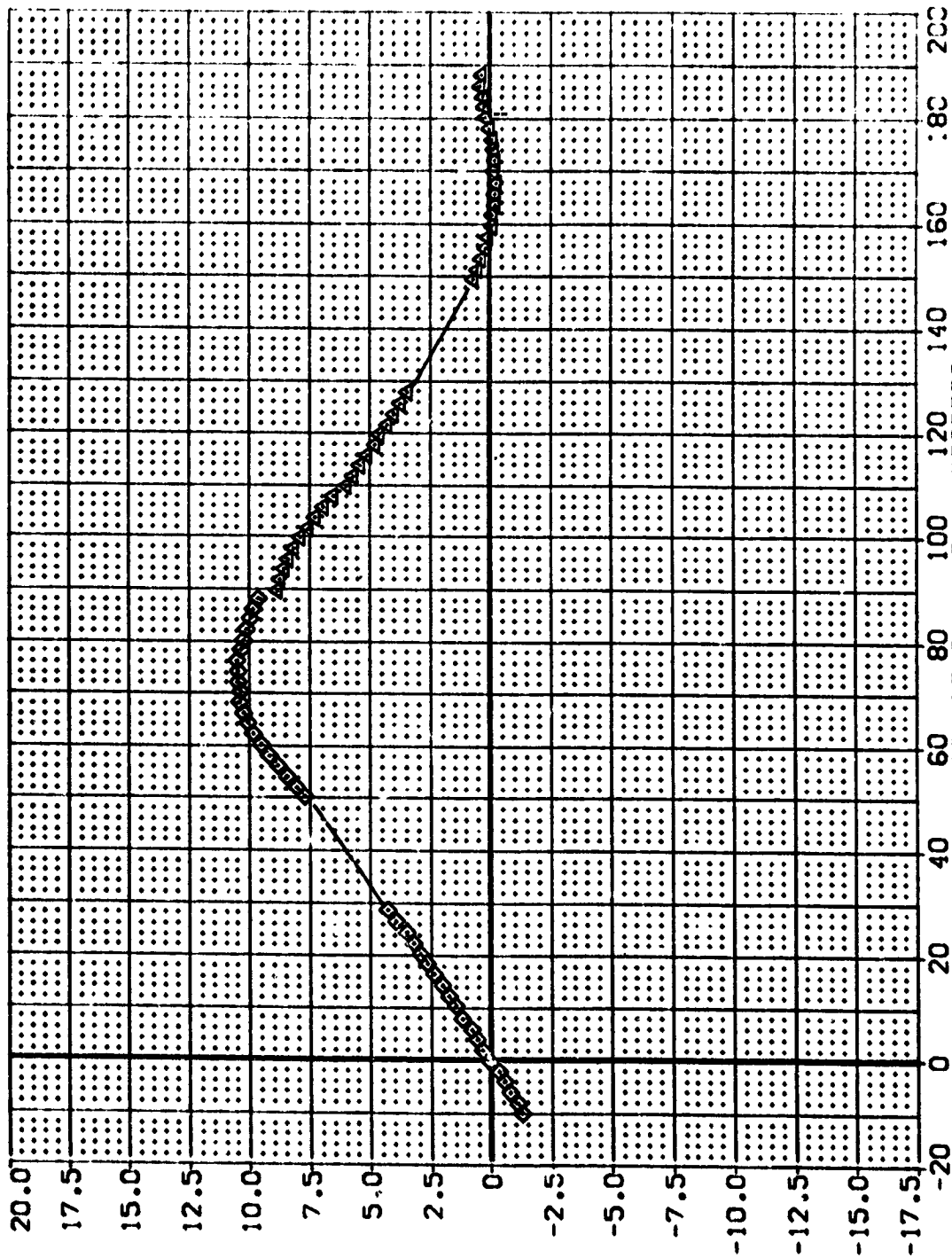
[R57A11] DATA NOT AVAILABLE
 [R57A12] DATA NOT AVAILABLE
 [R57A13] MSFC 587(F44) TITAN III C SRM (NBETP)
 [R57A14] MSFC 587(F44) TITAN III C SRM (NBETP)
 [R57A15] DATA NOT AVAILABLE
 [R57A16] DATA NOT AVAILABLE

BETA PHI

.000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

REFERENCE INFORMATION

SREF 6350
 LREF 9000
 BRFP 5000
 XMRP 4.6300
 YMRP 0.0000
 ZMRP 0.0000
 SCALE 0.0074



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

PAGE

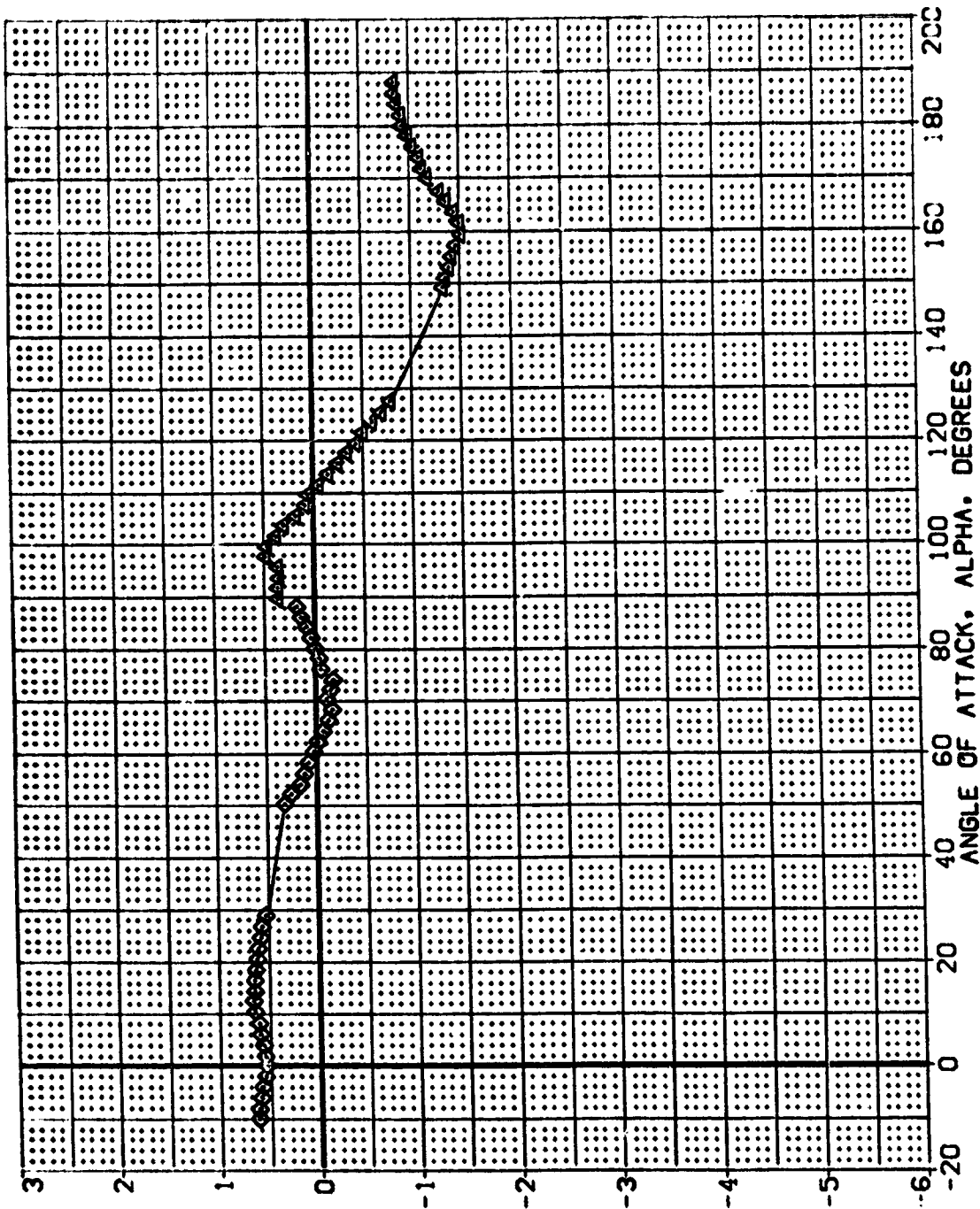
60



REFERENCE INFORMATION
 SREF .6350 SQ. IN
 LREF .5000
 BREF .5000
 XMRP 4
 YMRP .6330
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (P57A11) DATA NOT AVAILABLE
 (P57A12) DATA NOT AVAILABLE
 (P57A29) NSFC S87(F44) TITAN III C SRM (NBETP)
 (P57A30) NSFC S87(F44) TITAN III C SRM (NBETP)
 (P57A31) DATA NOT AVAILABLE
 (P57A32) DATA NOT AVAILABLE
 (P57A33) DATA NOT AVAILABLE



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CAJMACH = .60

REFERENCE INFORMATION IN

SREF	.6360	SG	.2
LREF	.9000		
BREF	.9000		
XMRP	.4		
YMRP	.0000		
ZMRP	.0000		
SCALE	.0074		

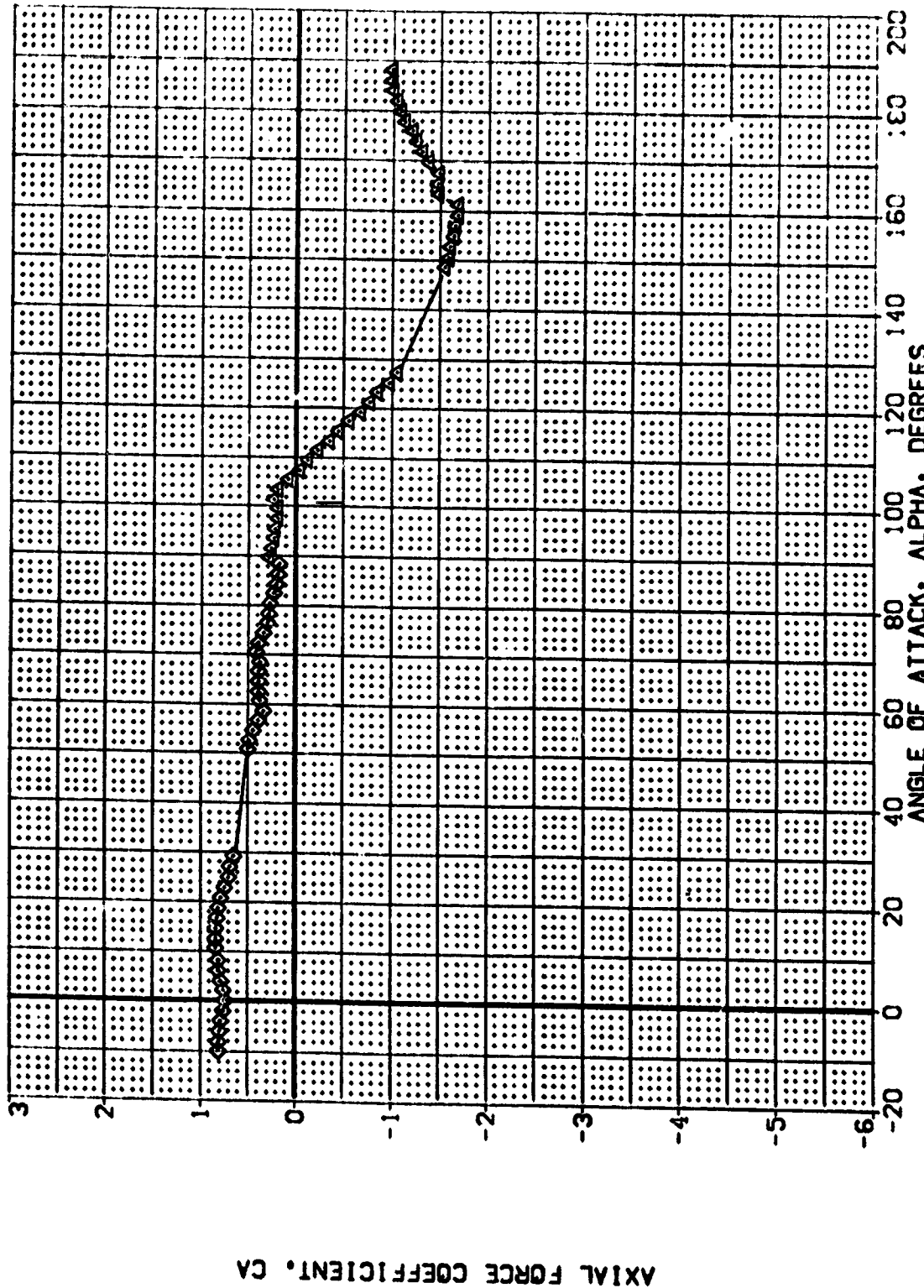
BETA PH-I

.000	247.500
.000	247.500
.000	270.000
.000	270.000
.000	282.500
.000	282.500

DATA SET SYMB. CONFIGURATION DESCRIPTION

(R57A11)	DATA NOT AVAILABLE
(R57A12)	DATA NOT AVAILABLE
(R57A19)	MFC 567(FA4) TITAN
(R57A10)	MFC 567(FA4) TITAN
(R57A17)	DATA NOT AVAILABLE
(R57A26)	DATA NOT AVAILABLE

||| C SRM (NBETP)
||| C SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

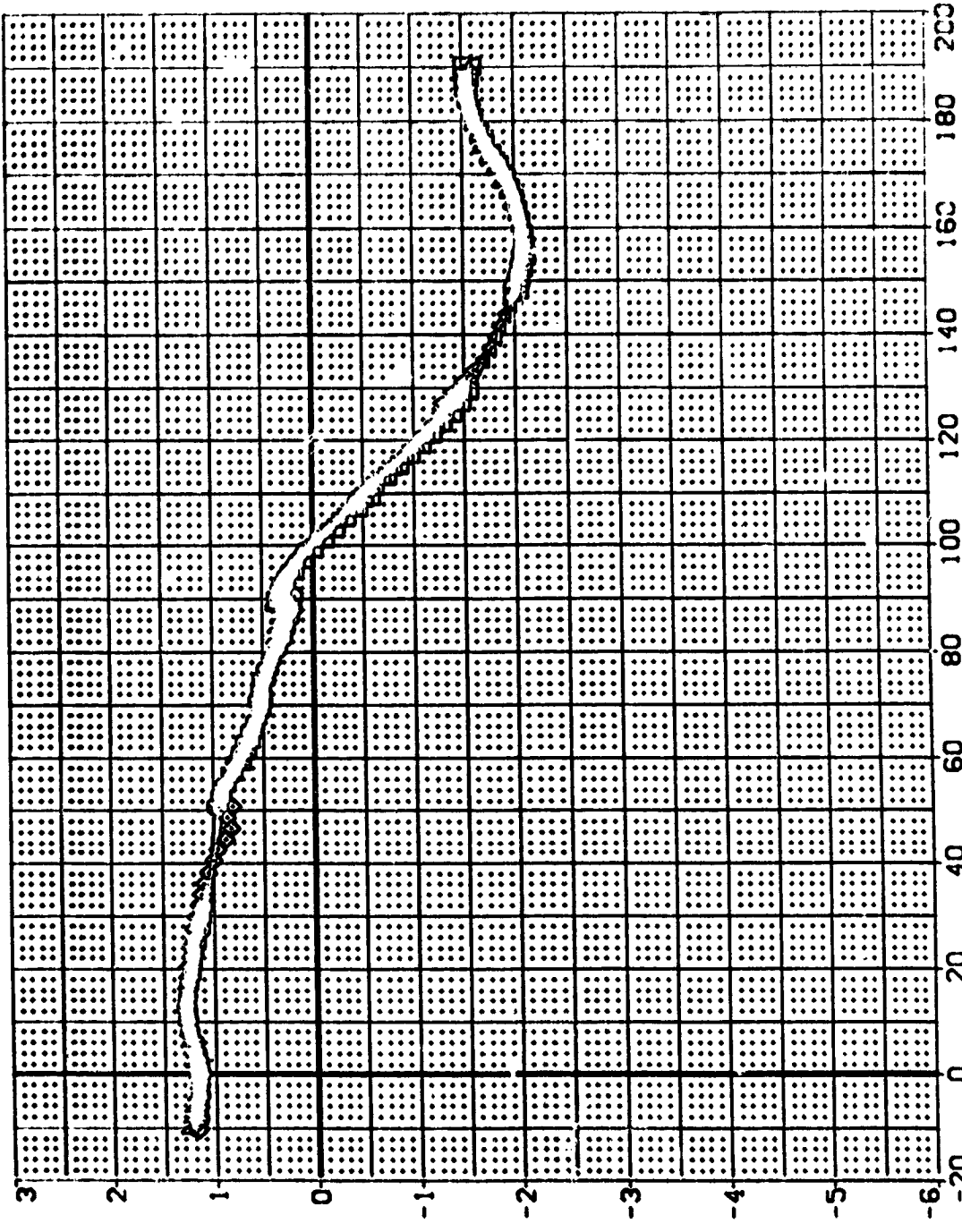
(B)MACH = .90



REFERENCE INFORMATION
 SREF 6360
 LREF 9000
 SREF 9000
 XPRP 4 6360
 YPRP 0000
 ZPRP 0000
 SCALE 1074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 282.500
 .000 282.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R87A) 1 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 2 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 3 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 4 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 5 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 6 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 7 C 587(FA4) TITAN SRM (NBETP)
 (R87A) 8 C 587(FA4) TITAN SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(CJMACH = 1.20

DATA SET SYMBA
 (RST/11)
 (RST/12)
 (RST/13)
 (RST/14)
 (RST/15)
 (RST/16)
 (RST/17)
 (RST/18)

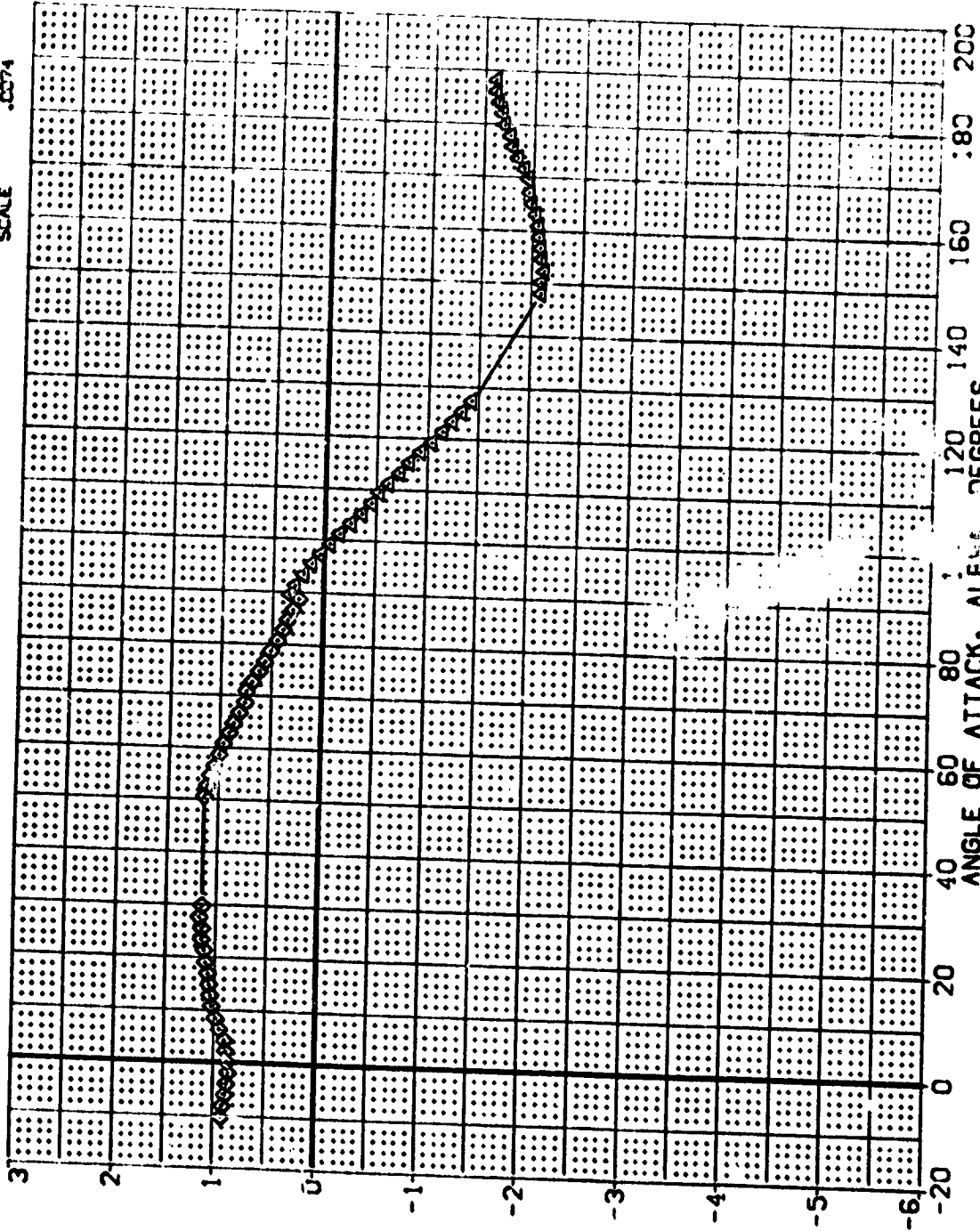
CONFIGURATION DESCRIPTION

DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC (S87(FM)) TITAN III C SRM (NBETP)
 MSC (S87(FM)) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA PHI

.000 217.500
 .000 217.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

REFERENCE INFORMATION
 SREF 6360
 LREF 9000
 BREF 9000
 XREF 9000
 YREF 9000
 ZREF 9000
 SCALE .0074



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN III C SRM (NBETP)

(D)MACH = 1.96

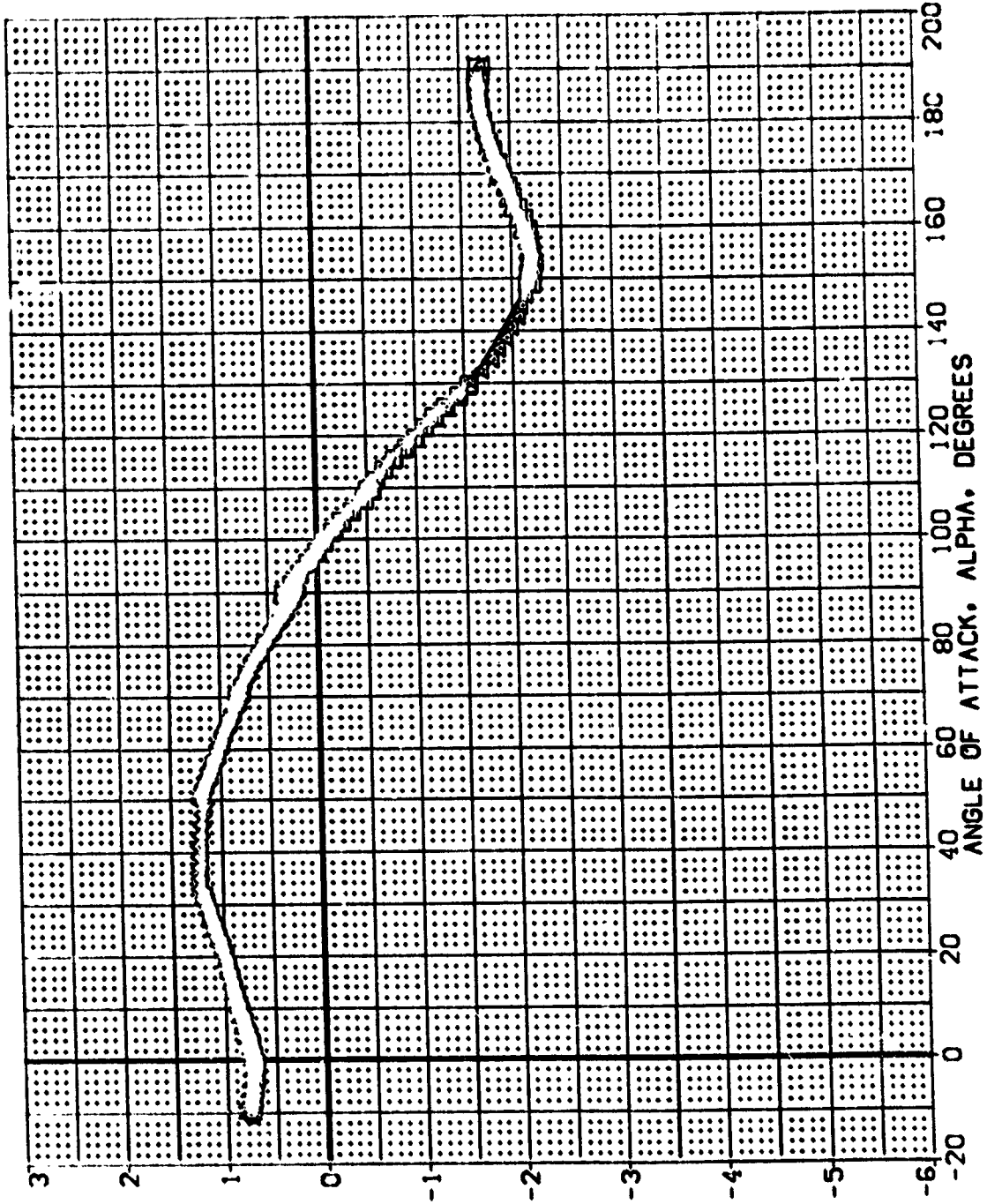


REFERENCE INFORMATION
 SQ: 222222
 SREF 6360
 LREF 9000
 BREF 9000
 XMRP 6330
 YMRP 9000
 ZMRP 9000
 SCALE 0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)
 C SRM (NBETP)

DATA SET SIMC
 000000
 000000
 000000
 000000
 000000
 000000



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

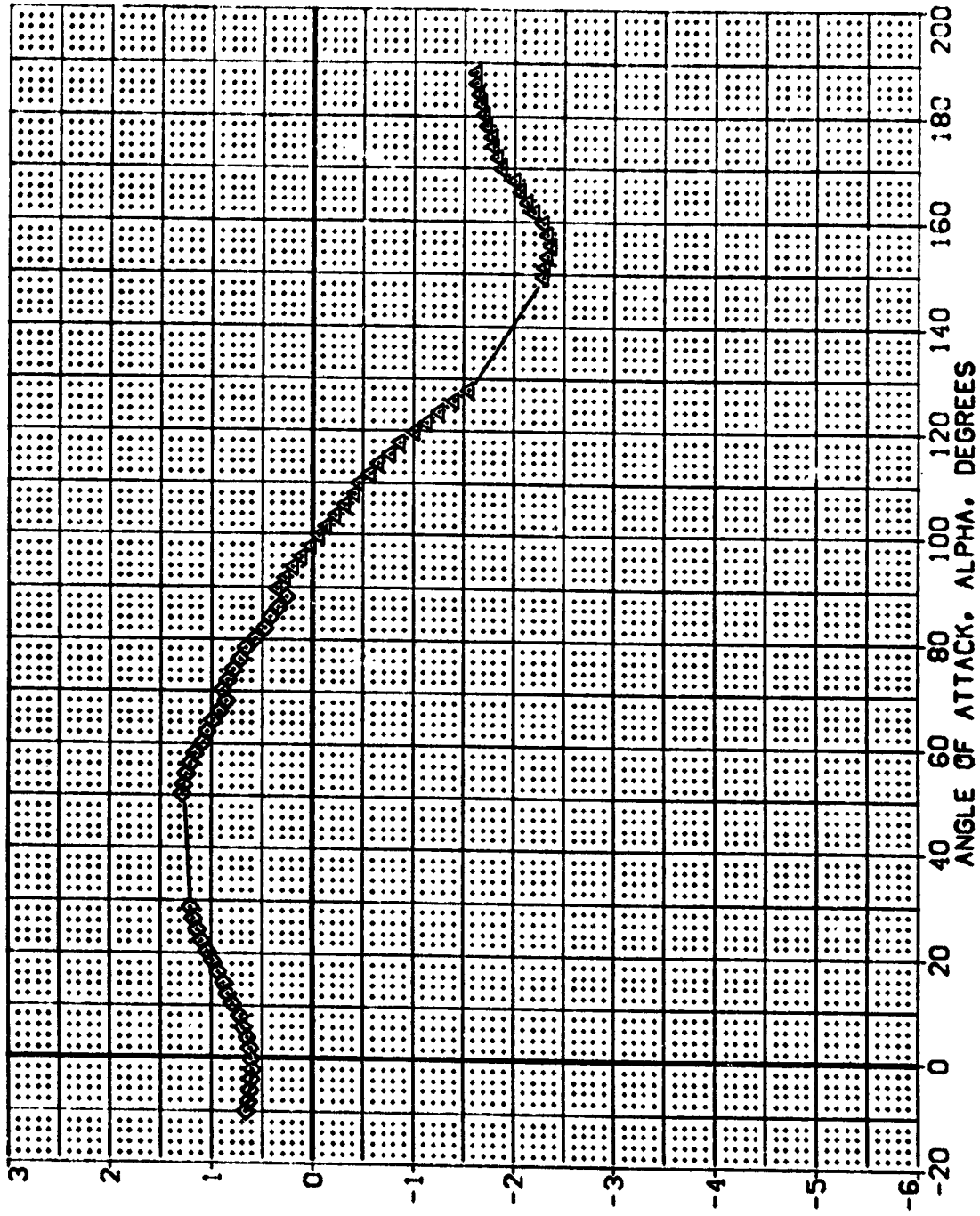
(C)MACH = 3.48

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .5000
 BRREF .5000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC 587(FAM) TITAN III C SRM (NBETP)
 MSC 587(FAM) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

DATA SET SYMBO.
 [RSTA11]
 [RSTA12]
 [RSTA09]
 [RSTA10]
 [RSTA07]
 [RSTA08]



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

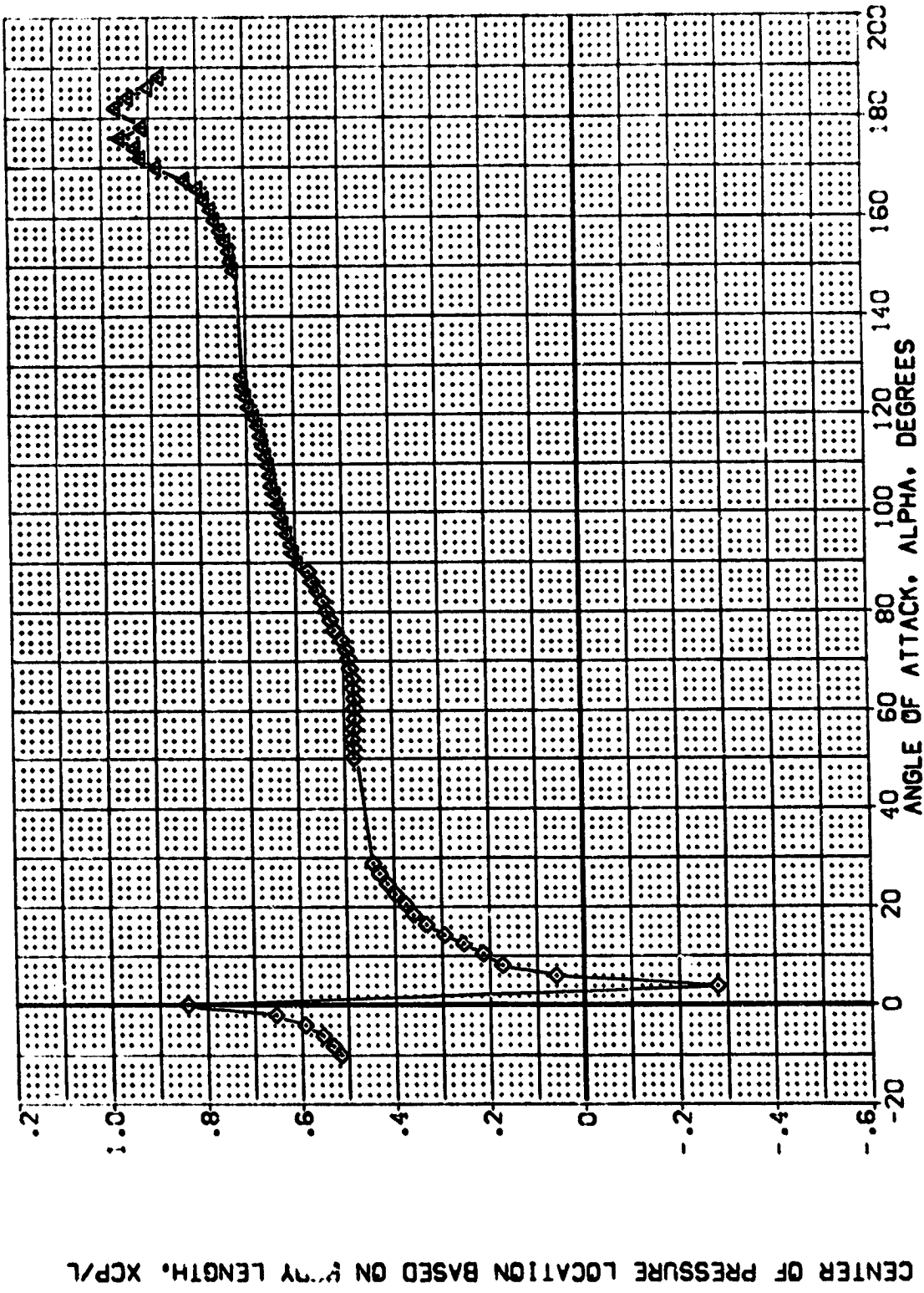


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360
 LREF .5000
 BREF .5000
 XMRP 4.6300
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET S-900 CONFIGURATION DESCRIPTION
 REF#1:1 DATA NOT AVAILABLE
 REF#1:2 DATA NOT AVAILABLE
 REF#1:3 MSFC SRM (FAS) TITAN III C SRM (NBETP)
 REF#1:4 MSFC SRM (FAS) TITAN III C SRM (NBETP)
 REF#1:5 DATA NOT AVAILABLE
 REF#1:6 DATA NOT AVAILABLE
 REF#1:7 DATA NOT AVAILABLE
 REF#1:8 DATA NOT AVAILABLE



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CAJ MACH = .60

REFERENCE INFORMATION

SREF .8360 SQ. IN
 LREF .9000 IN.
 BRFP .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

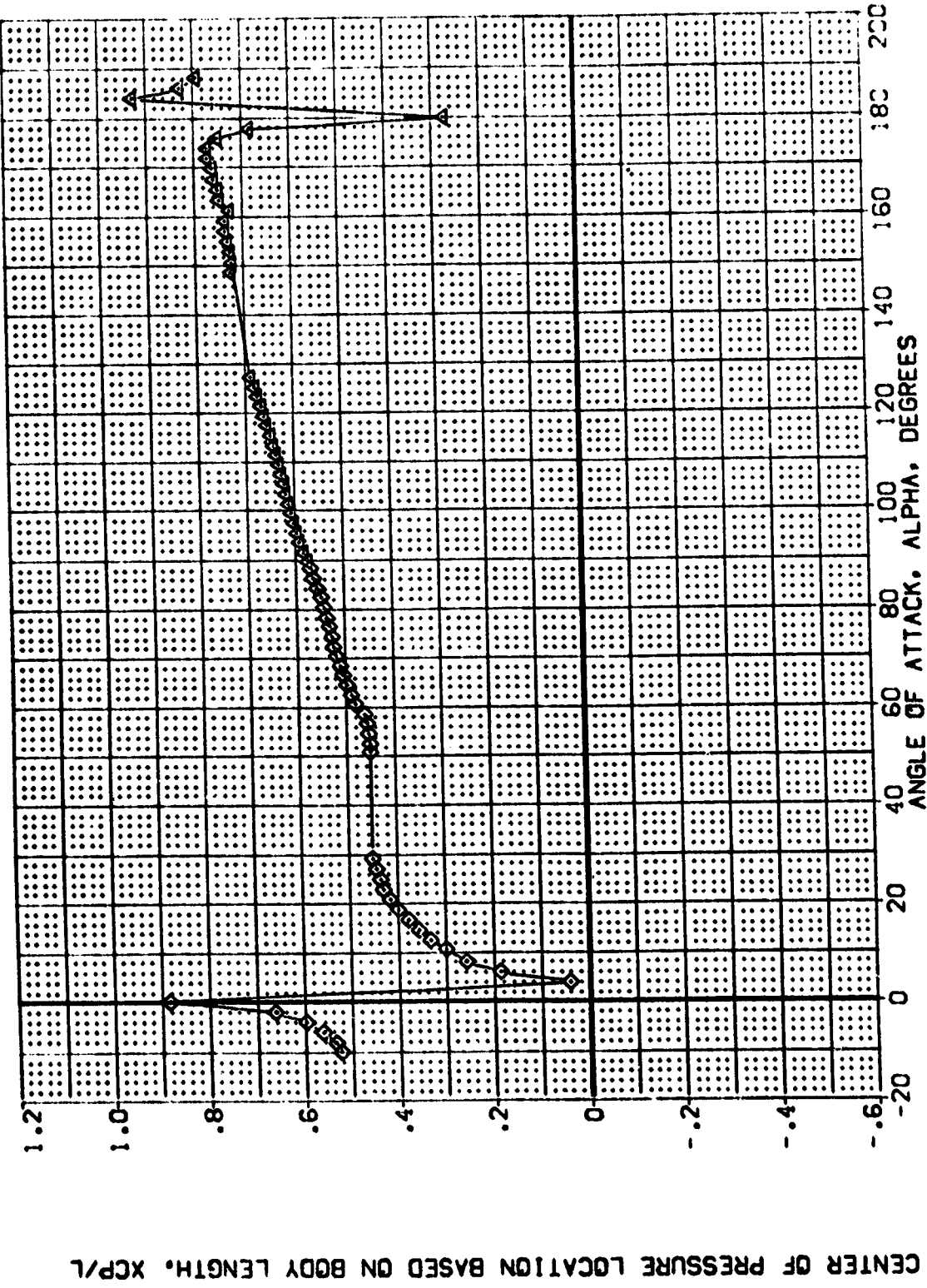
BETA PHI

.000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMB. CONFIGURATION DESCRIPTION

0 DATA NOT AVAILABLE
 X DATA NOT AVAILABLE
 X DATA NOT AVAILABLE
 X DATA NOT AVAILABLE
 X DATA NOT AVAILABLE

III C SRM (NBETP)
 III C SRM (NBETP)



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

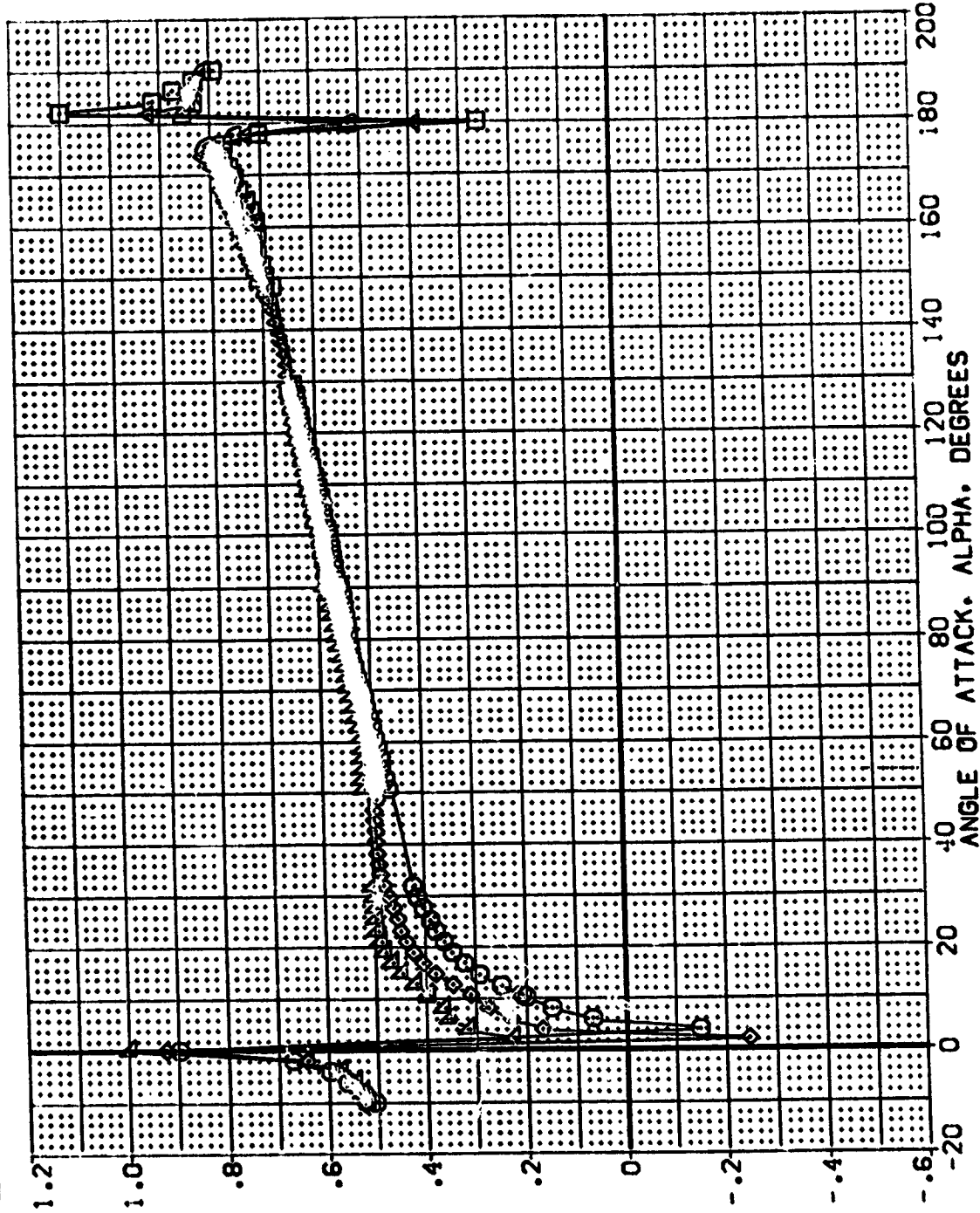
CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L



REFERENCE INFORMATION
 SQ. IN
 2.22222
 4.63333
 .00000
 .00000
 .0074

BETA P-1
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SRM (NBETP)
RS7A11	TITAN	SRM (NBETP)
RS7A12	TITAN	SRM (NBETP)
RS7A29	TITAN	SRM (NBETP)
RS7A10	TITAN	SRM (NBETP)
RS7A07	TITAN	SRM (NBETP)
RS7A08	TITAN	SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

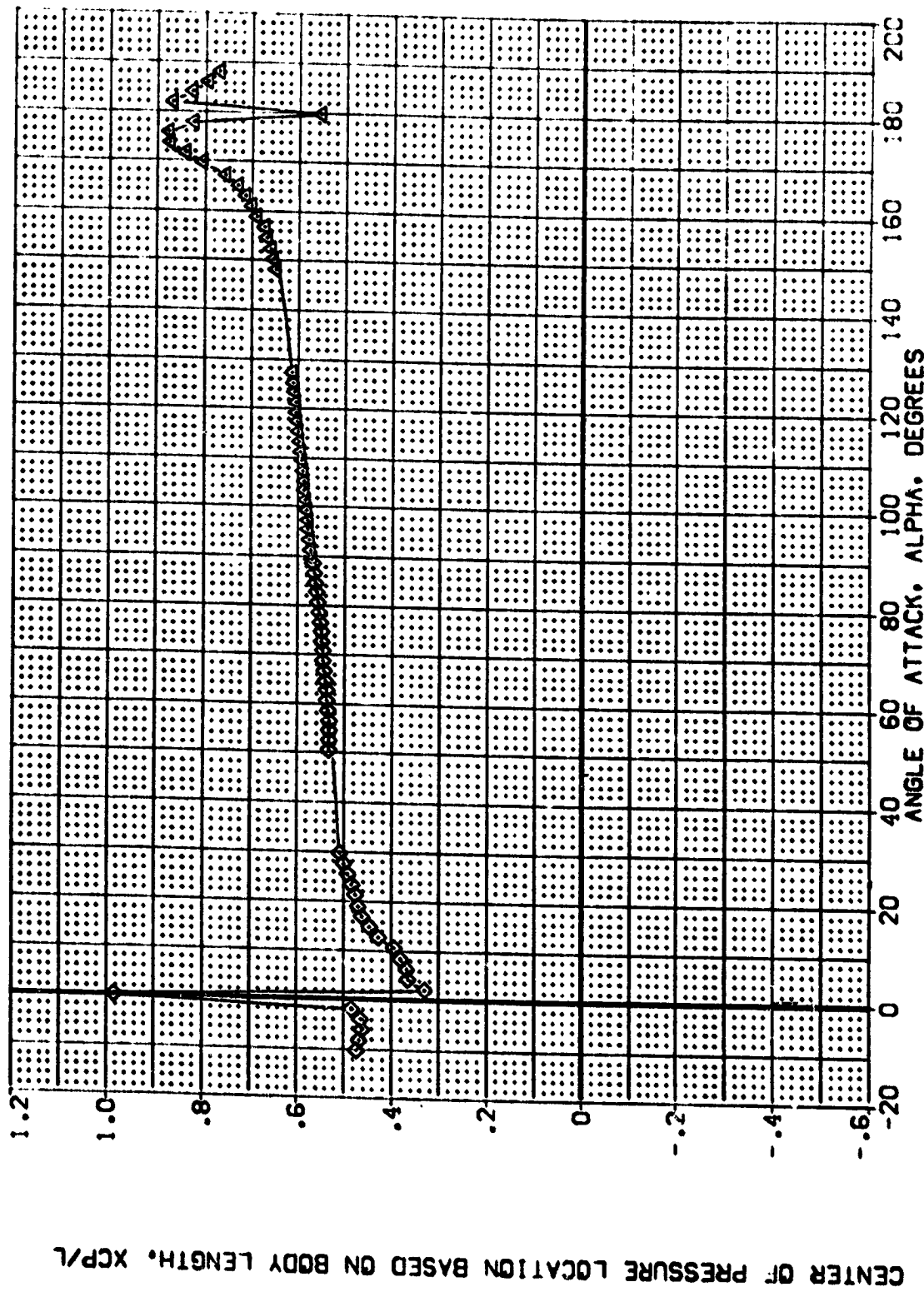
(C)MACH = 1.20

DATA SET SYMBOL: [R57A:1] [R57A:2] [R57A:3] [R57A:4] [R57A:5] [R57A:6] [R57A:7] [R57A:8]

CONFIGURATION DESCRIPTION: DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(F44) TITAN III C SRM (NBETP)
 MSFC 587(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 282.500
 .000 282.500

REFERENCE INFORMATION
 SRPF 6360 SQ. IN.
 LRPF 9000 IN.
 BRPF 9000 IN.
 XMRP 4 6330 IN.
 YMRP 0000 IN.
 ZMRP 0000 IN.
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(D)MACH = 1.96



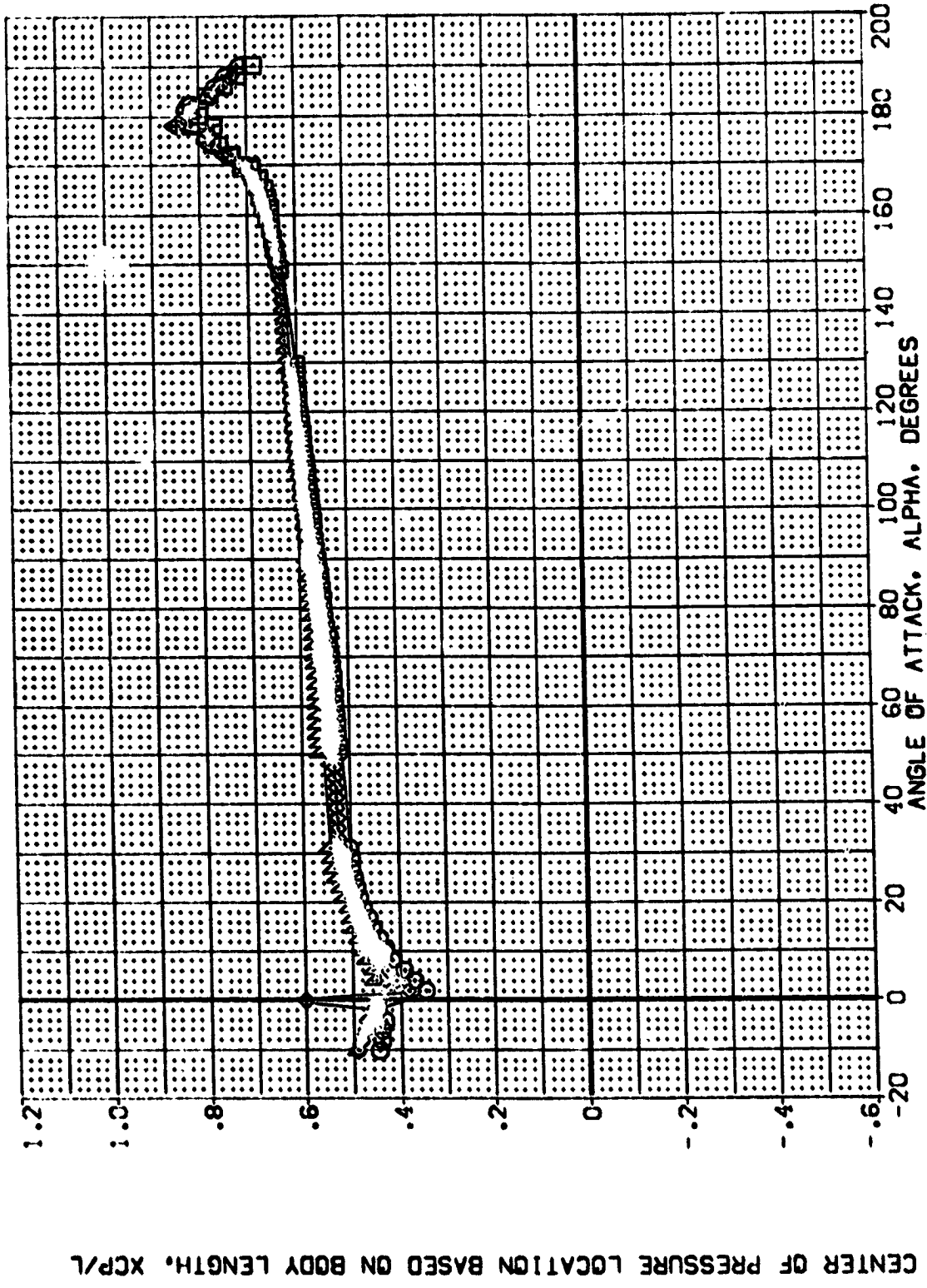
REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF .6360
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION SRM (NBETP)
 C 587(FA4) TITAN III C
 C 587(FA4) TITAN III C
 C 587(FA4) TITAN III C
 C 587(FA4) TITAN III C
 C 587(FA4) TITAN III C
 C 587(FA4) TITAN III C

DATA SET SYMBOL
 0 0 0 0 0 0
 0 0 0 0 0 0
 0 0 0 0 0 0
 0 0 0 0 0 0
 0 0 0 0 0 0
 0 0 0 0 0 0



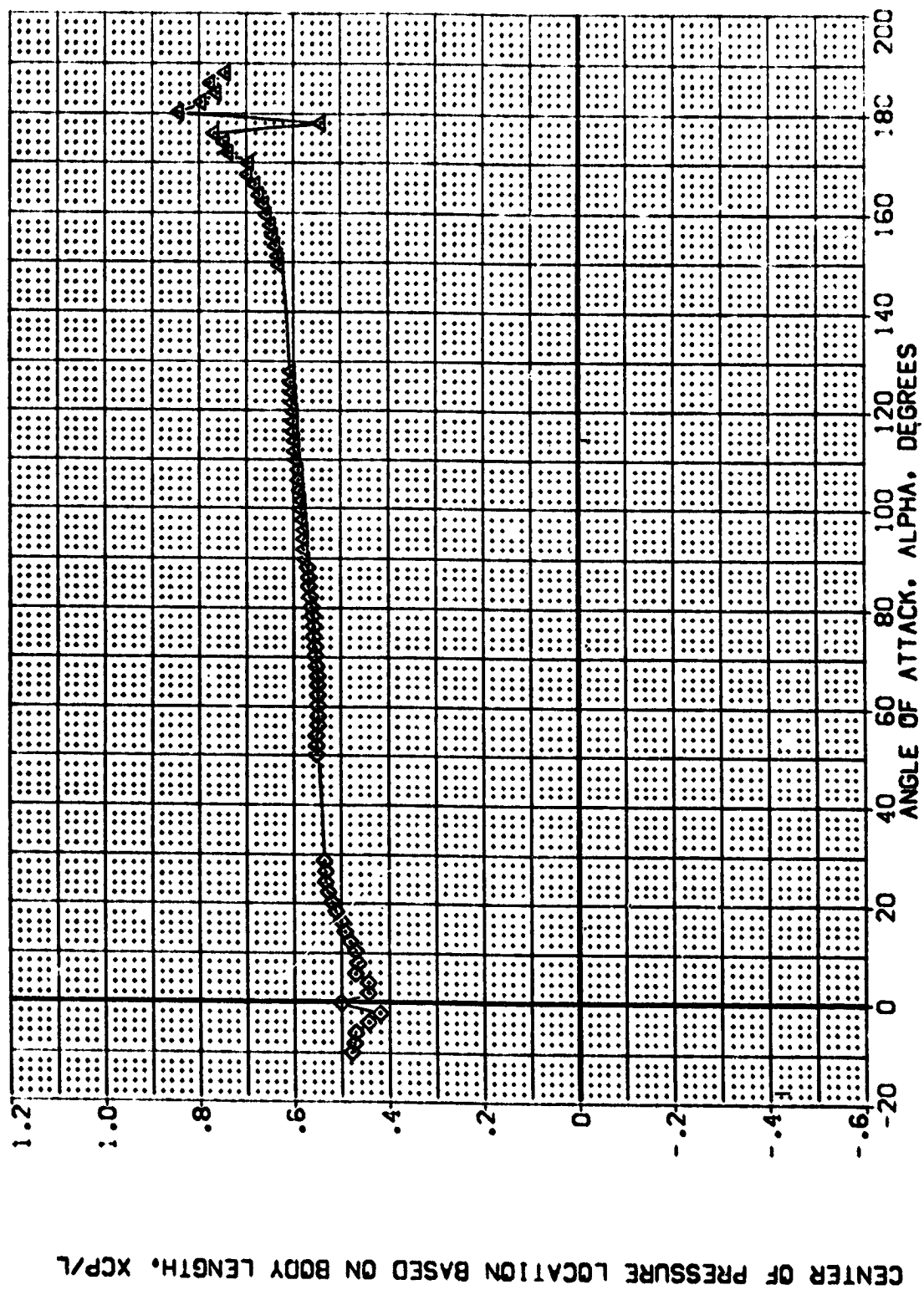
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJMACH = 3.48

REFERENCE INFORMATION
 SREF .6360 SQ. IN
 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6333 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMB. CONFIGURATION DESCRIPTION
 :R57A11} DATA NOT AVAILABLE
 :R57A12} DATA NOT AVAILABLE
 :R57A19} MSC C 587(FA4) TITAN III C SRM (NBETP)
 :R57A10} MSC C 587(FA4) TITAN III C SRM (NBETP)
 :R57A37} DATA NOT AVAILABLE
 :R57A38} DATA NOT AVAILABLE



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

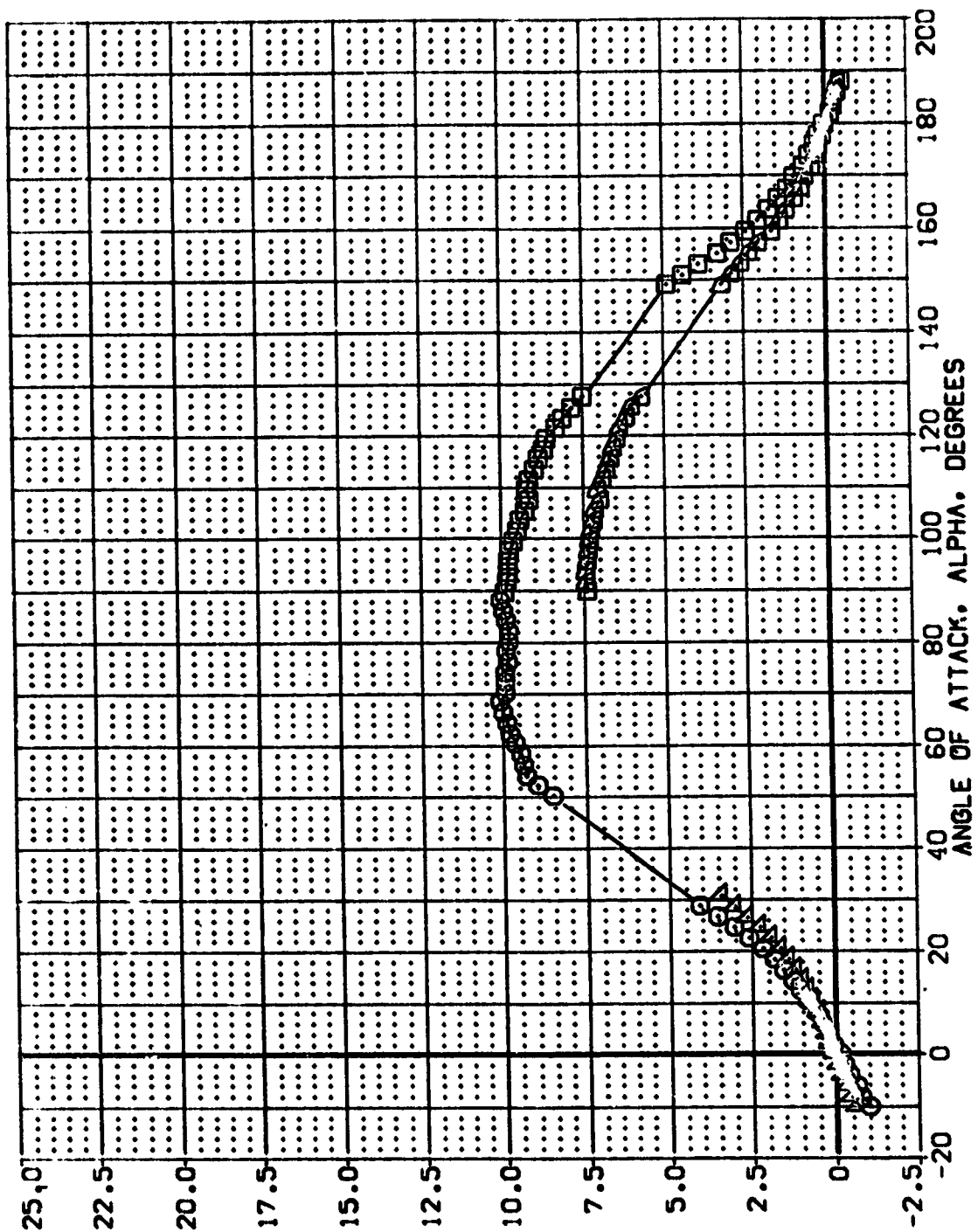
REFERENCE INFORMATION
 SREF .6360 SQ IN
 LREF .9000
 BREF .9000
 XMRP 4 .6360
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000

CONFIGURATION DESCRIPTION
 SFC 587(FM) TITAN III C SRM (NBETP)
 MSFC 587(FM) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FM) TITAN III C SRM (NBETP)
 MSFC 587(FM) TITAN III C SRM (NBETP)

DATA SET: STRES
 [RSTAS] 0
 [RSTAS] 0
 [RSTAS] 0
 [RSTAS] 0
 [RSTAS] 0

MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(A)MACH = .60

DATA SET SYMBO. CONFIGURATION DESCRIPTION

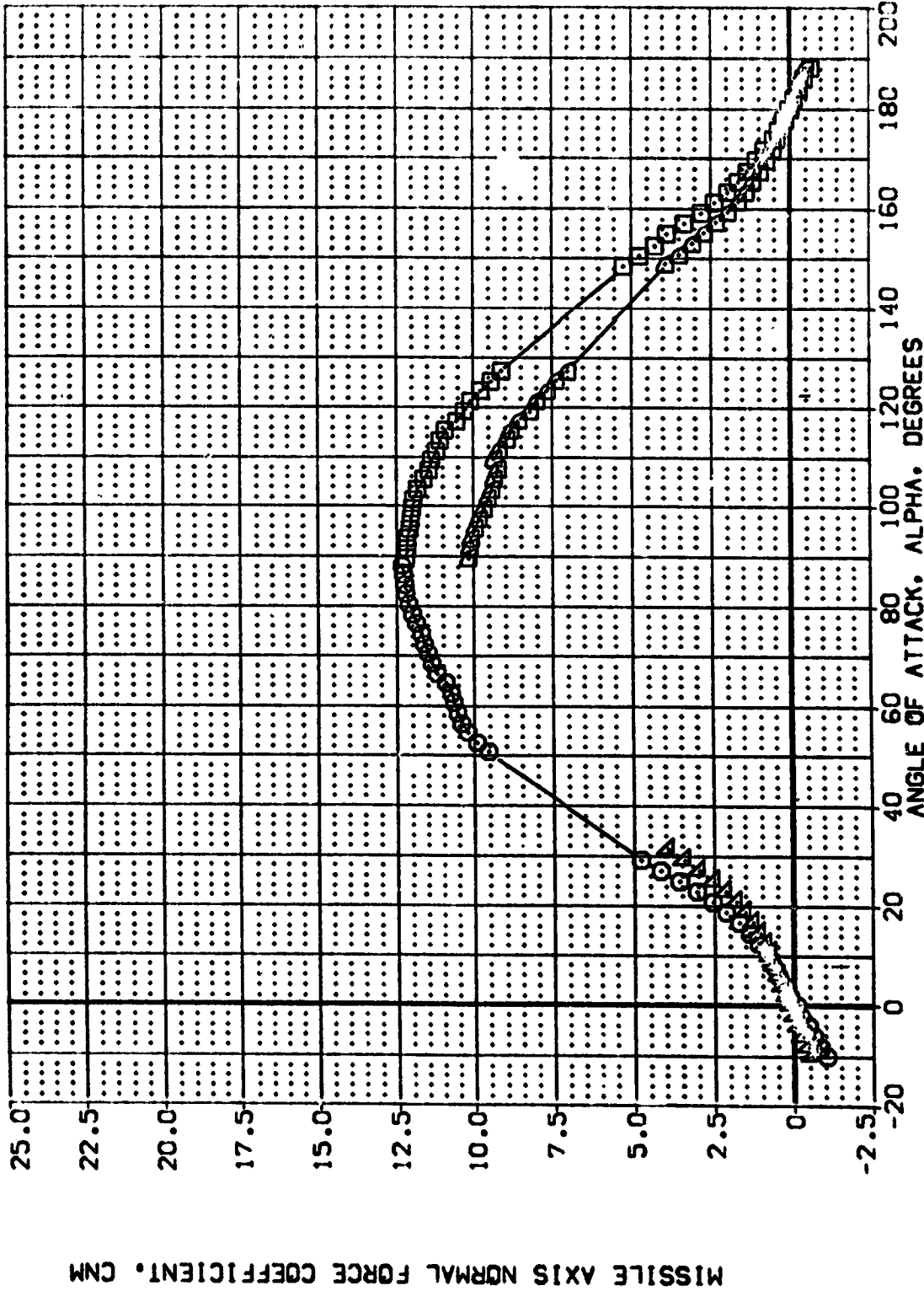
MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI

.000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

REFERENCE INFORMATION

SREF .6360 SQ. IN.
 LREF .5000 IN.
 BREF .5000 IN.
 4.6330 IN.
 XMRP .0000 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

PAGE 74

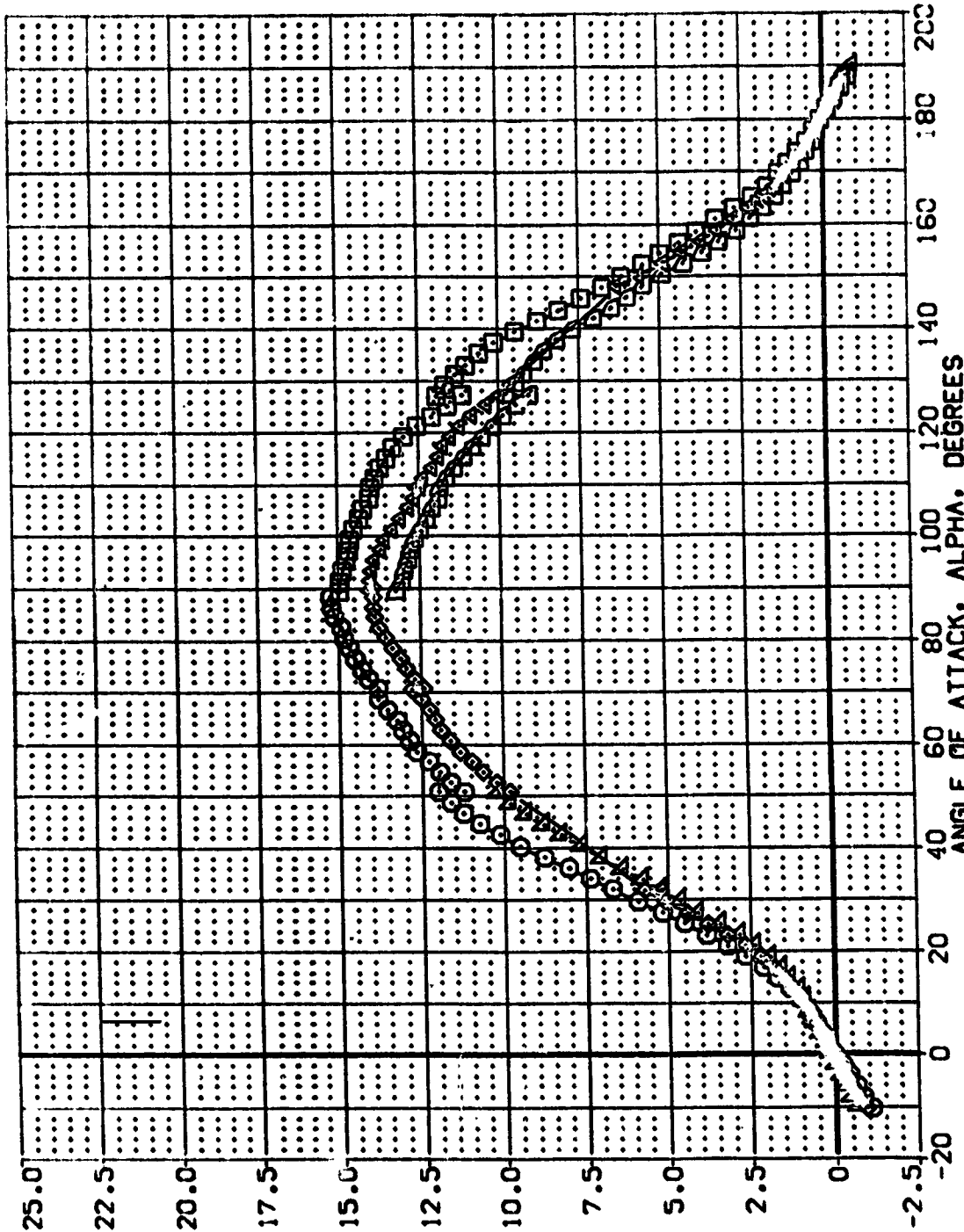


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION IN
 SREF .6360 SQ: 222222
 LREF .9000
 BREF .6300
 XMRP 4
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

DATA SET: S190L CONFIGURATION DESCRIPTION
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)
 (R77A23) 1 C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CNM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

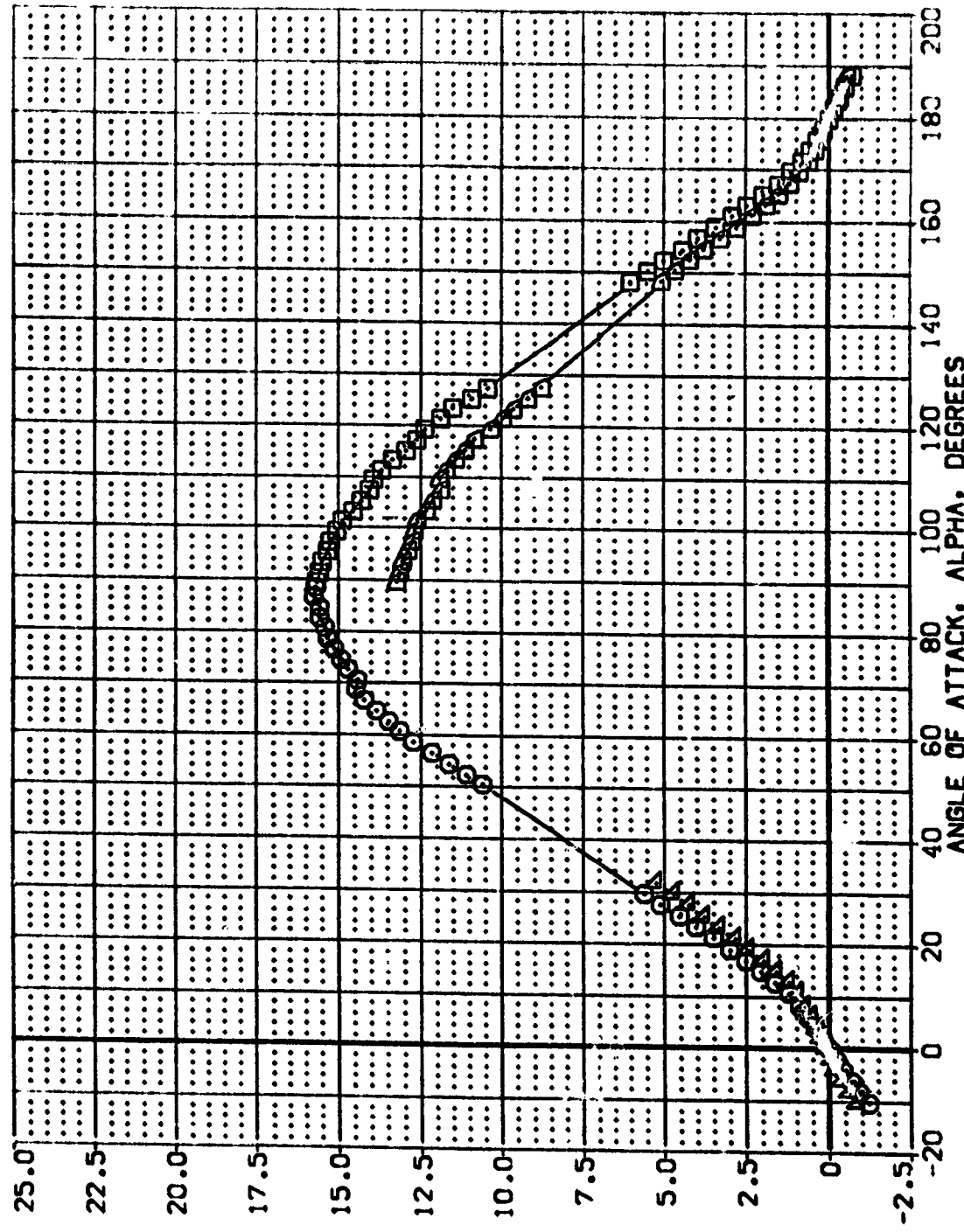
CCJMACB = 1.20

DATA SET SYMB. [R77A05] [R77A06] [R77A07] [R77A08] [R77A09] [R77A10]

CONFIGURATION DESCRIPTION
 MSC 587(F44) TITAN III C SRM (NBETP)
 MSC 587(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC 587(F44) TITAN III C SRM (NBETP)
 MSC 587(F44) TITAN III C SRM (NBETP)

BETA PHI
 .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 6360 SQ IN
 LREF 6000 IN
 BREF 6000 IN
 XPRP 4.6336
 YPRP .0000
 ZPRP .0000
 SCALE .0074



MISSILE AXIS NORMAL FORCE COEFFICIENT, CMN

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(O)MACH = 1.96

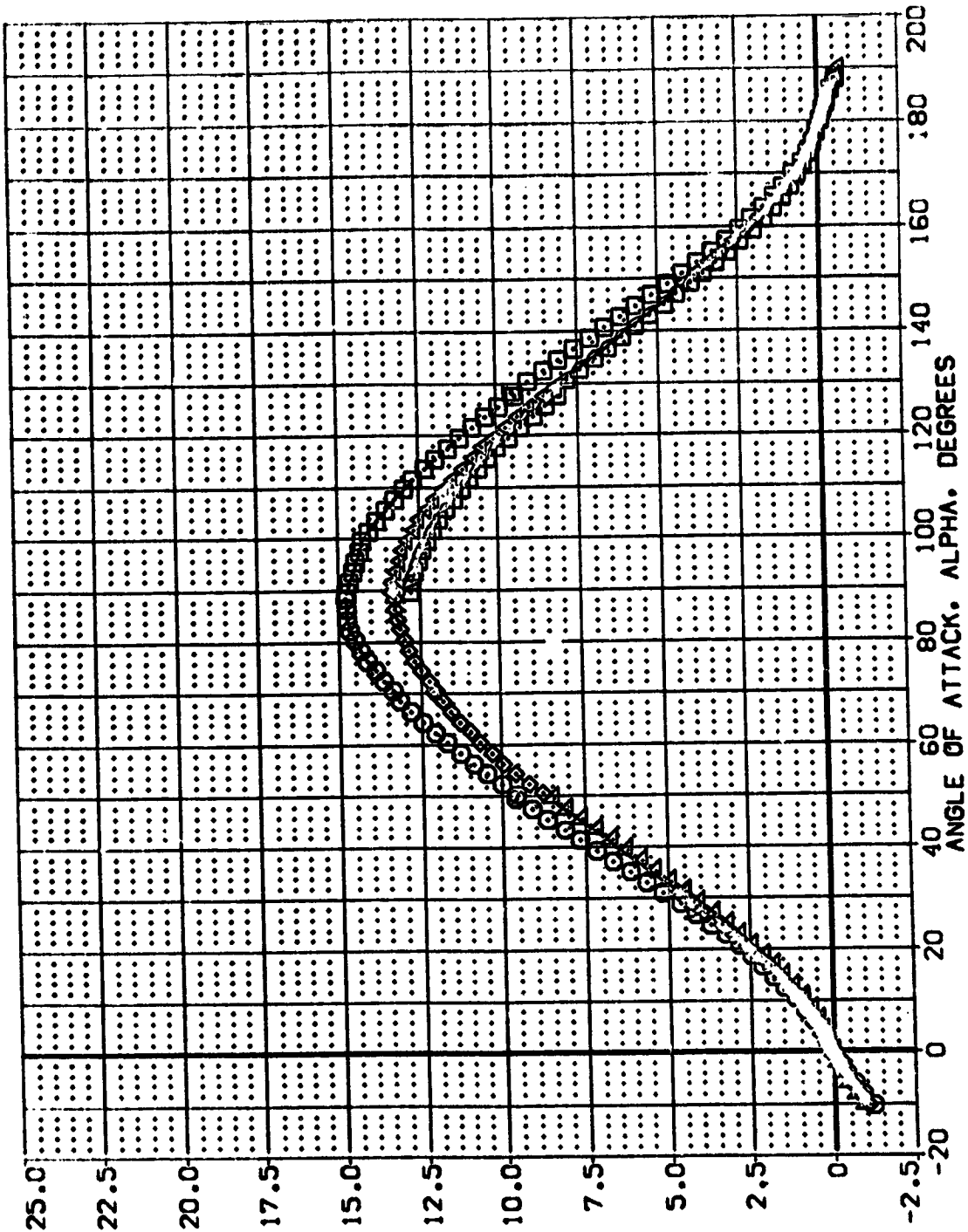


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF 6360
 LREF 9000
 BREF 9000
 YMRP 4.6330
 ZMRP 0.0000
 SCALE 0.0074

BETA PH1
 .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	SRM	(NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)
1-57A03	TITAN III	C	SRM (NBETP)



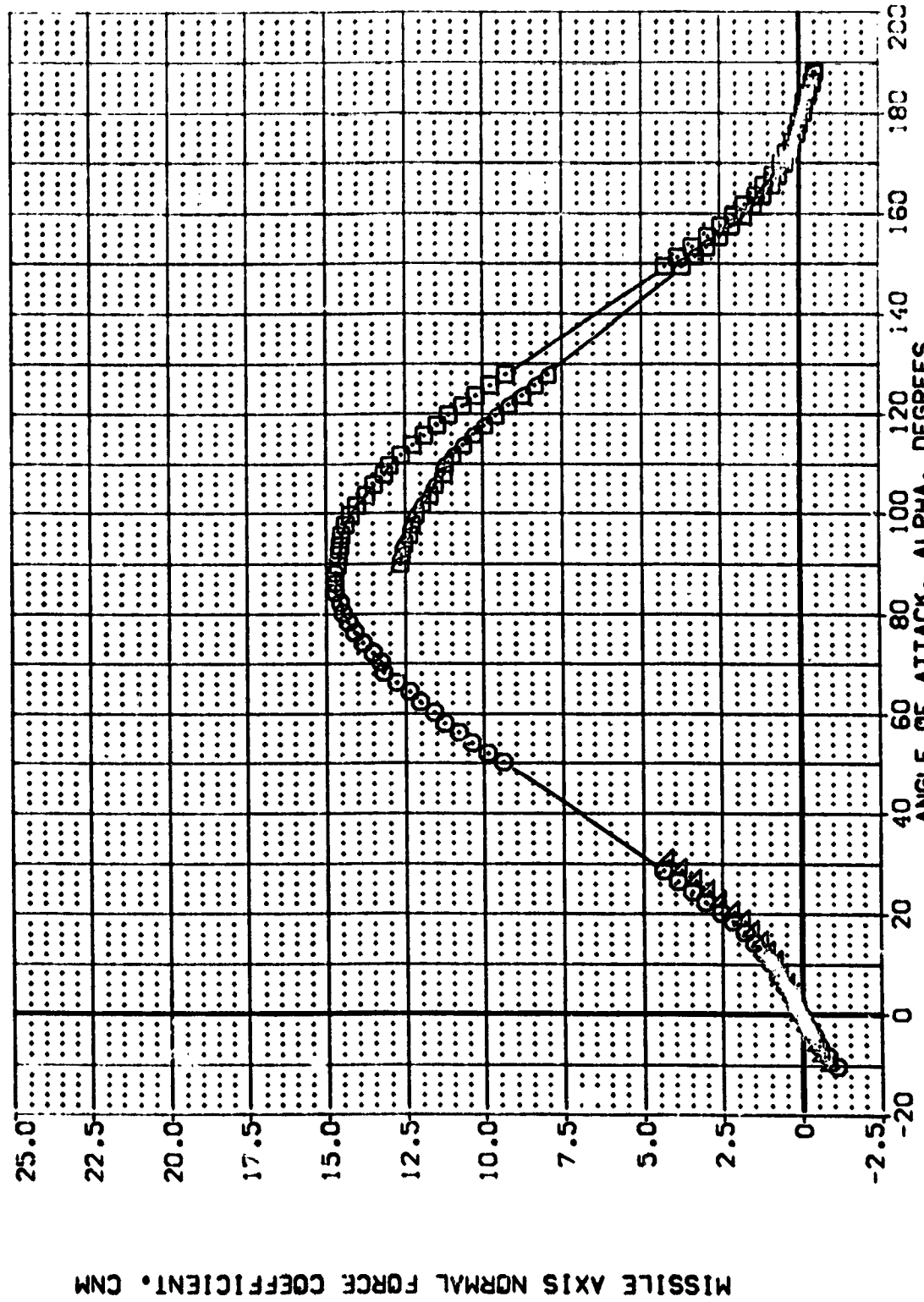
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJMACH = 3.48

REFERENCE INFORMATION
 SREF 6.360 SQ IN
 LREF 5000
 BREF 5000
 XMRP 4 6.330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 315.000
 .000 315.000
 .000 397.500
 .000 397.500
 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RSTAC1) O MSC 587(FAS) TITAN III C SRM (NBETP)
 (RSTAC2) X MSC 587(FAS) TITAN III C SRM (NBETP)
 (RSTAC3) DATA NOT AVAILABLE
 (RSTAC4) MSC 587(FAS) TITAN III C SRM (NBETP)
 (RSTAC5) MSC 587(FAS) TITAN III C SRM (NBETP)



MISSILE AXIS NORMAL FORCE COEFFICIENT, CM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96

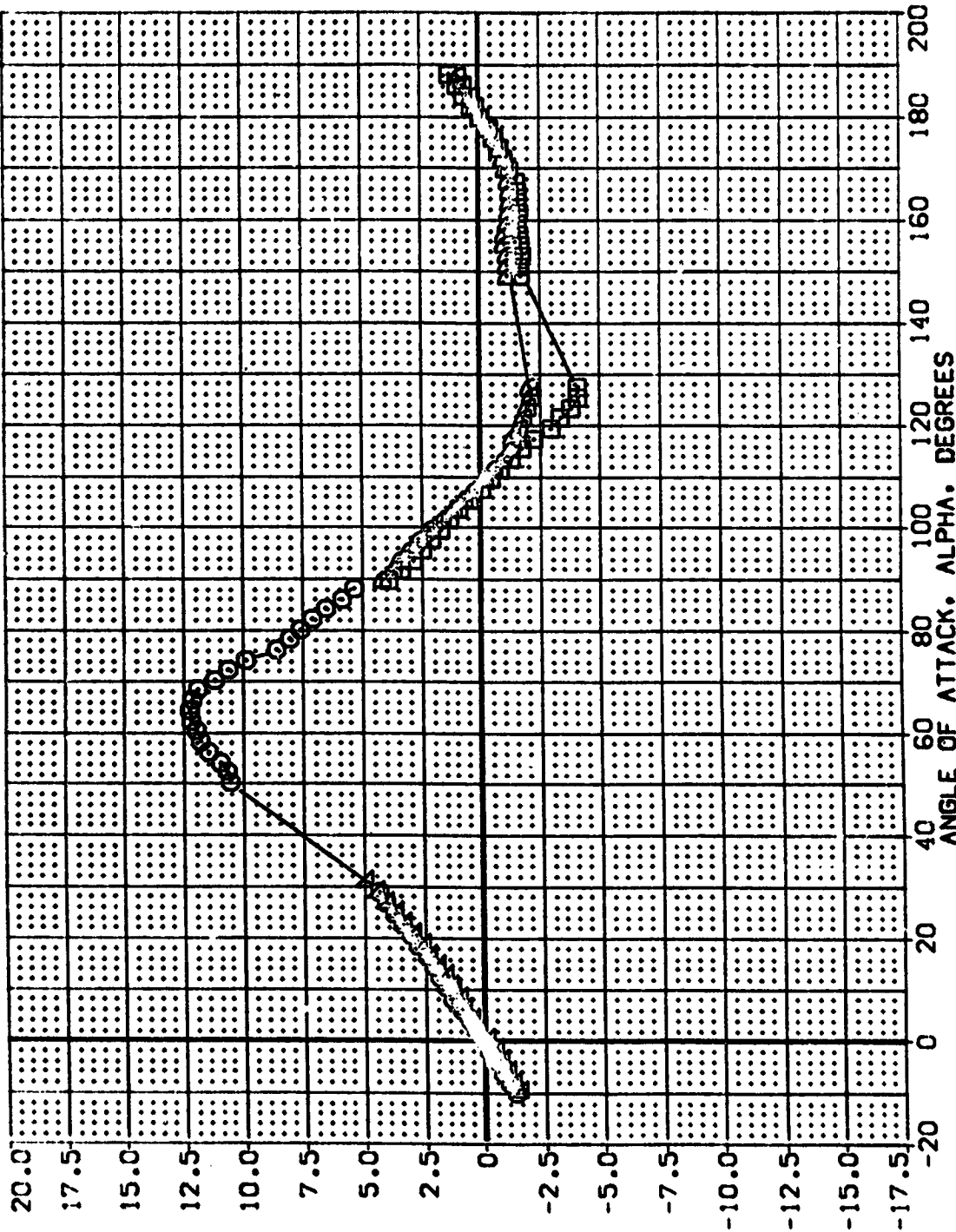


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
 SREF 6360 SQ. IN
 LREF 9000 IN.
 BREF 9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

DATA SET S -80
 :R7AC3] :
 :R7AC6] :
 :R7AC3] :
 :R7AC4] :
 :R7AC2] :
 CONFIGURATION DESCRIPTION
 TITAN III C SRM (NBETP)
 TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 TITAN III C SRM (NBETP)
 TITAN III C SRM (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLMM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

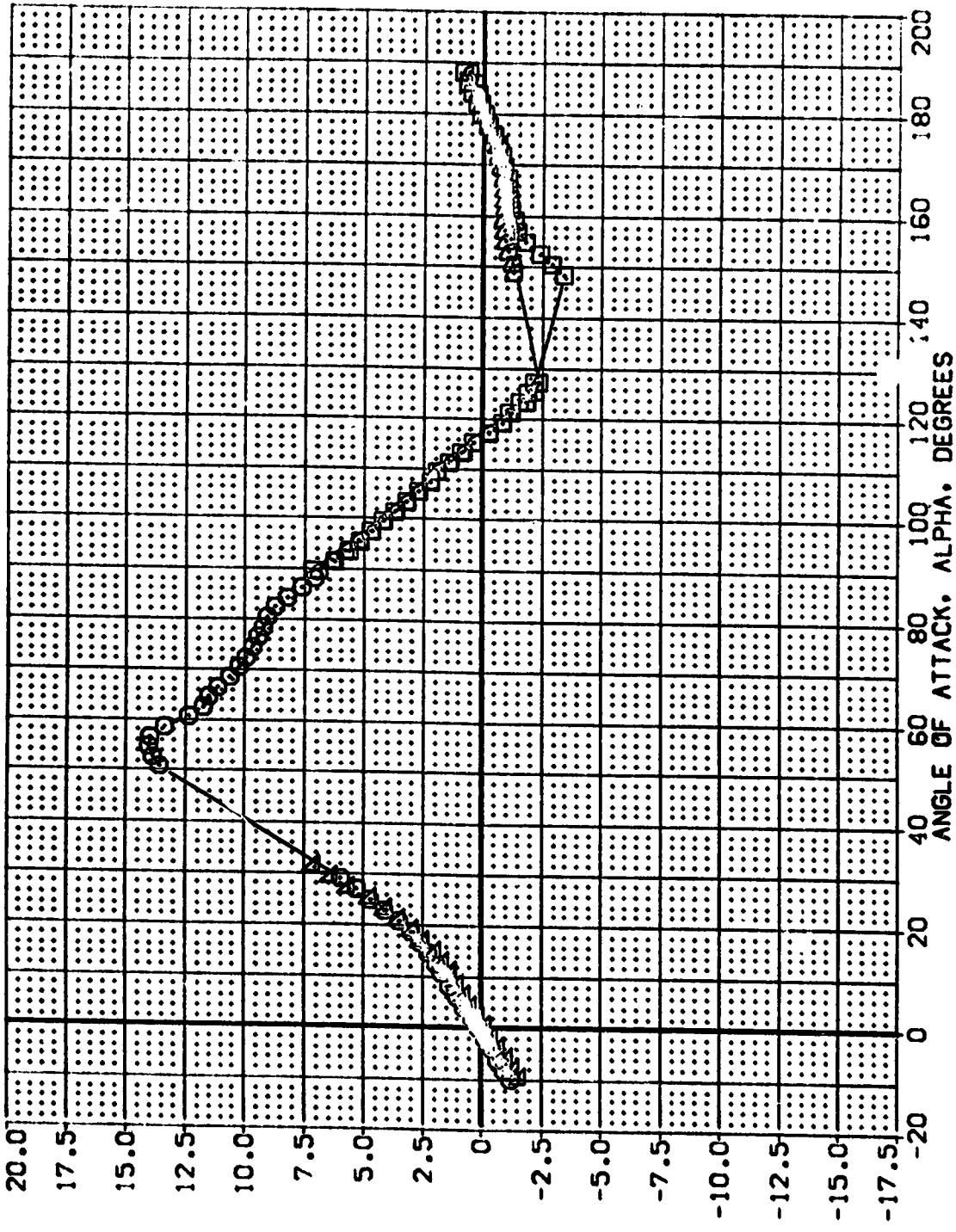
CAJMACH = .60

DATA SET SYMBOL: [R57A02] [R57A03] [R57A04] [R57A05] [R57A06] [R57A07]

CONFIGURATION DESCRIPTION: MSFC 587(F44) TITAN III C SRM (NBETP) MSFC 587(F44) TITAN III C SRM (NBETP) DATA NOT AVAILABLE MSFC 587(F44) TITAN III C SRM (NBETP) MSFC 587(F44) TITAN III C SRM (NBETP)

BETA (PHI): .000 315.000 .000 315.000 .000 337.500 .000 337.500 .000 .000 .000 .000

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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90

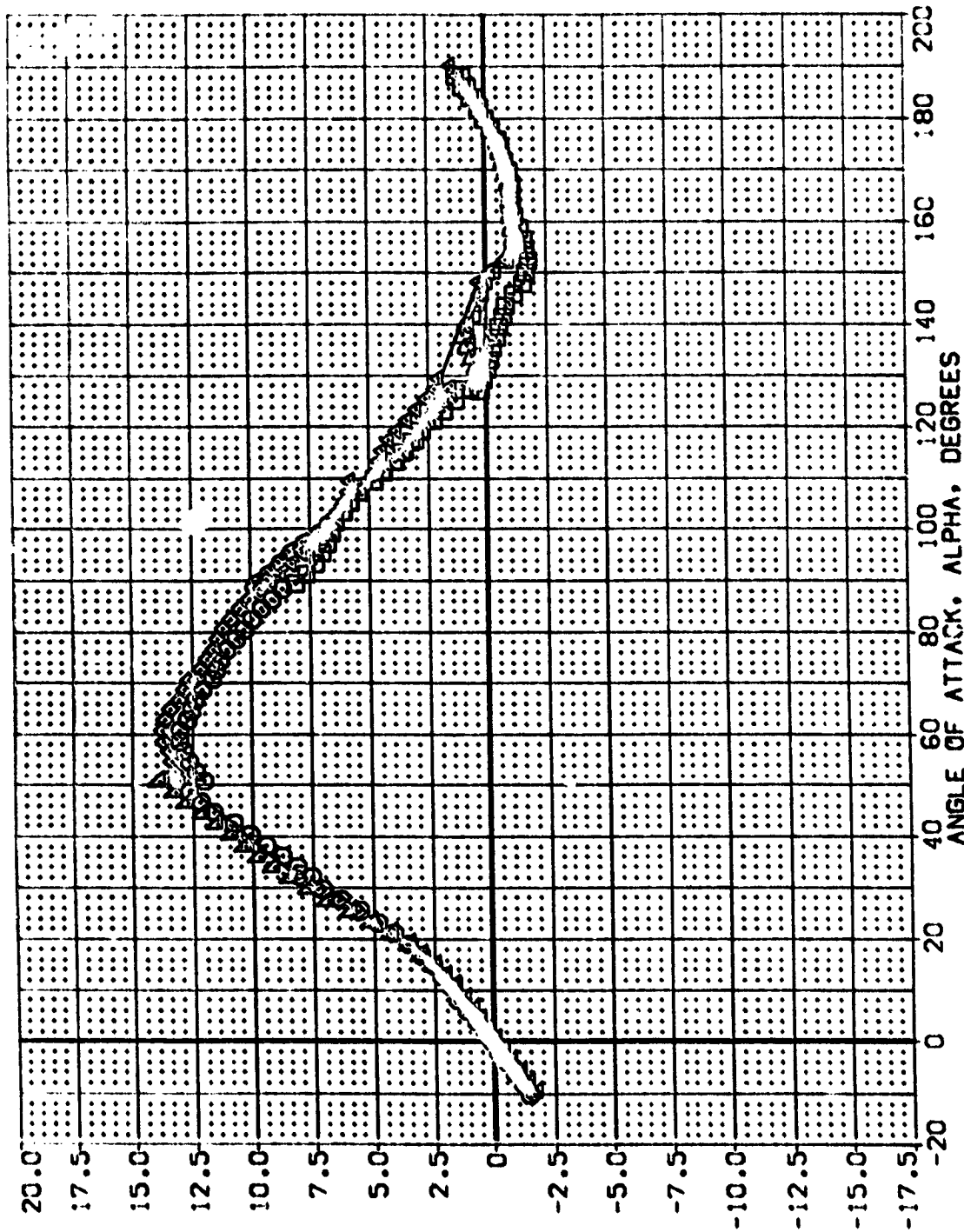


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 SCALE 0074

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 .000 337.500
 .000 337.500
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DATA SET SYMCD CONFIGURATION DESCRIPTION
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 02 C 567(FA4) TITAN (NBETP)
 03 C 587(FA4) TITAN (NBETP)
 04 C 587(FA4) TITAN (NBETP)
 05 C 587(FA4) TITAN (NBETP)
 06 C 587(FA4) TITAN (NBETP)



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CCMACH = 1.20

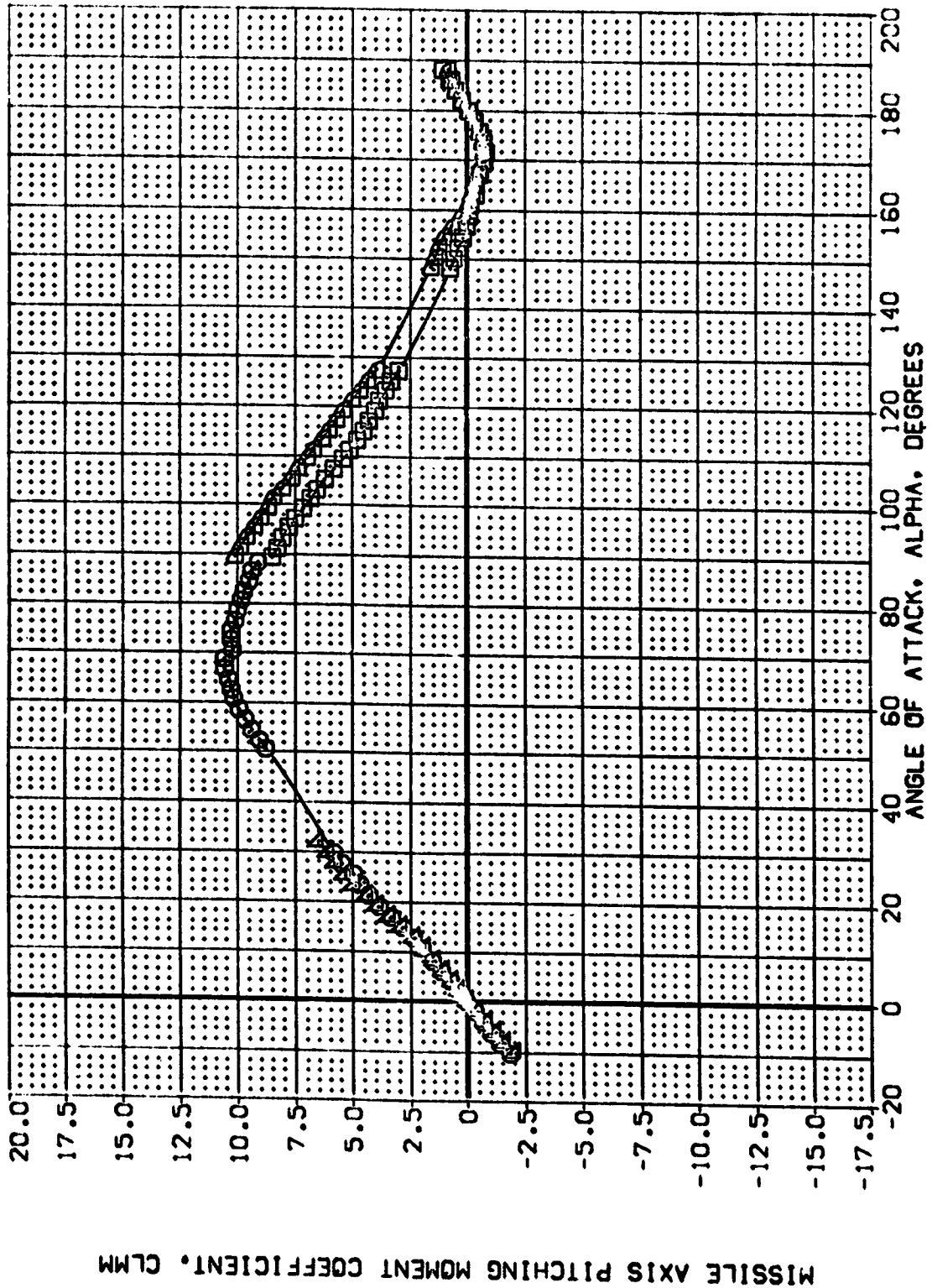
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81

REFERENCE INFORMATION
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BETA PHI
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DATA SET SYMB. CONFIGURATION DESCRIPTION
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 (P87AC6) MSC 587(FA4) TITAN III C SRM (NBETP)
 (P87AC9) DATA NOT AVAILABLE
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LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(M)MACH = 1.96



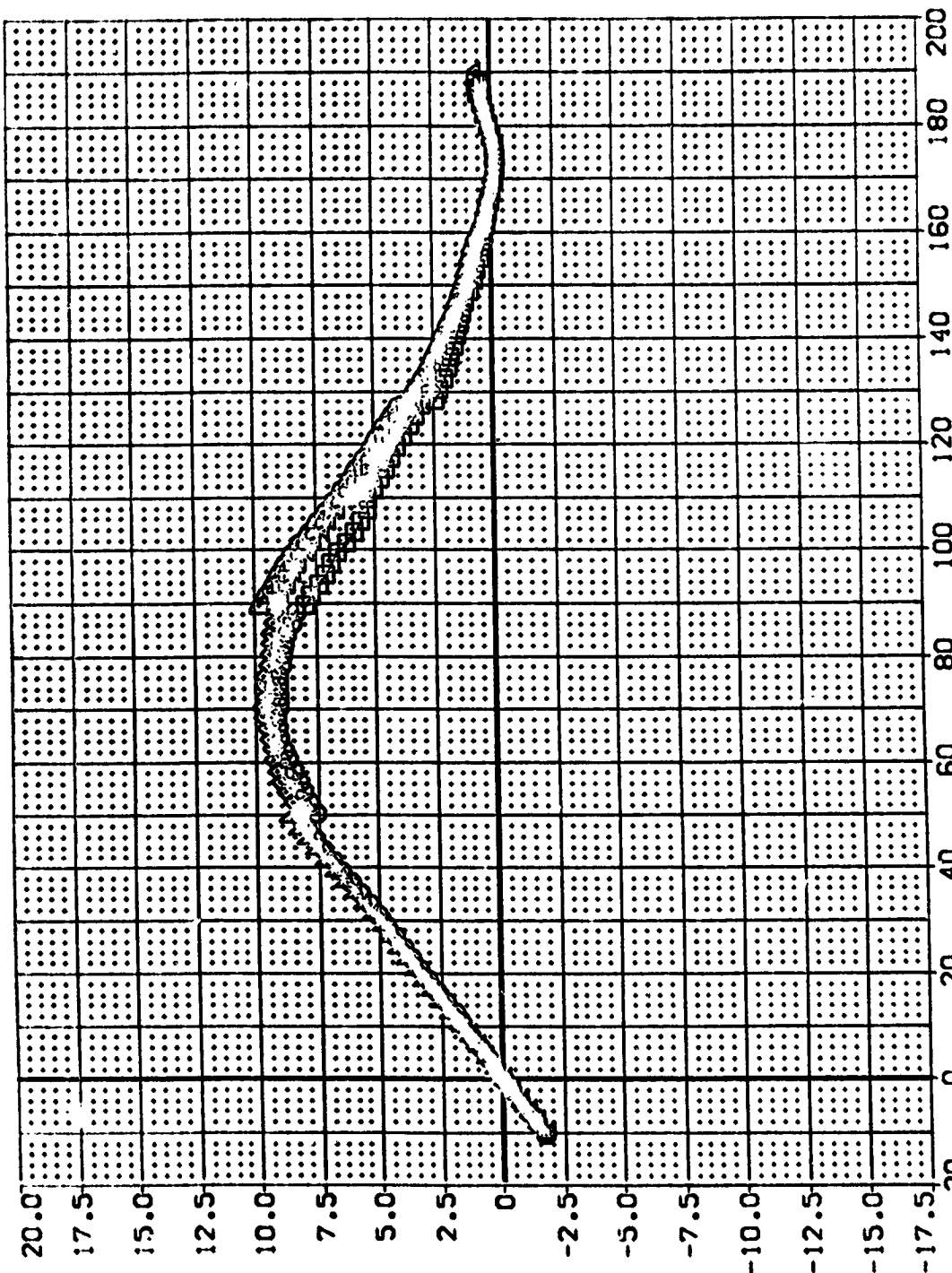
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CONFIGURATION DESCRIPTION
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 MSFC 587(FA4) TITAN SRM (NBETP)
 MSFC 587(FA4) TITAN SRM (NBETP)
 MSFC 587(FA4) TITAN SRM (NBETP)
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 MSFC 587(FA4) TITAN SRM (NBETP)

DATA SET SYMBOLS
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 (R7A06)
 (R7A07)
 (R7A08)
 (R7A09)
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MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLPM



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(E)MACH = 3.48

REFERENCE INFORMATION

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SCALE	.0074	

BETA PHI

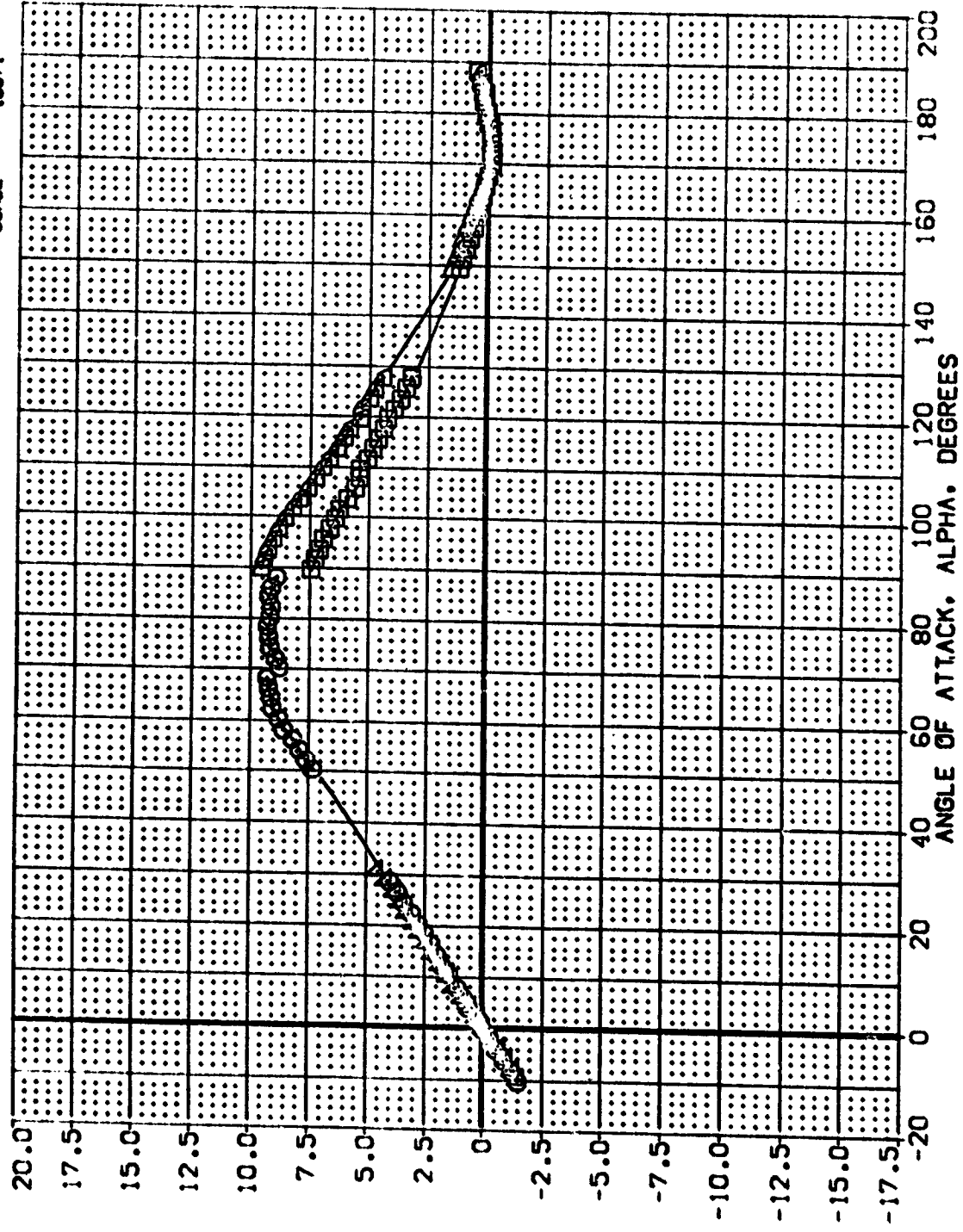
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CONFIGURATION DESCRIPTION

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MSC 587(FA4)	TITAN III	C SRM (NBETP)
DATA NOT AVAILABLE		
DATA NOT AVAILABLE		
MSC 587(FA4)	TITAN III	C SRM (NBETP)
MSC 587(FA4)	TITAN III	C SRM (NBETP)

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[RBTAC4]	0
[RBTAC5]	0
[RBTAC6]	0



MISSILE AXIS PITCHING MOMENT COEFFICIENT, CLM

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(F)MACH = 4.96



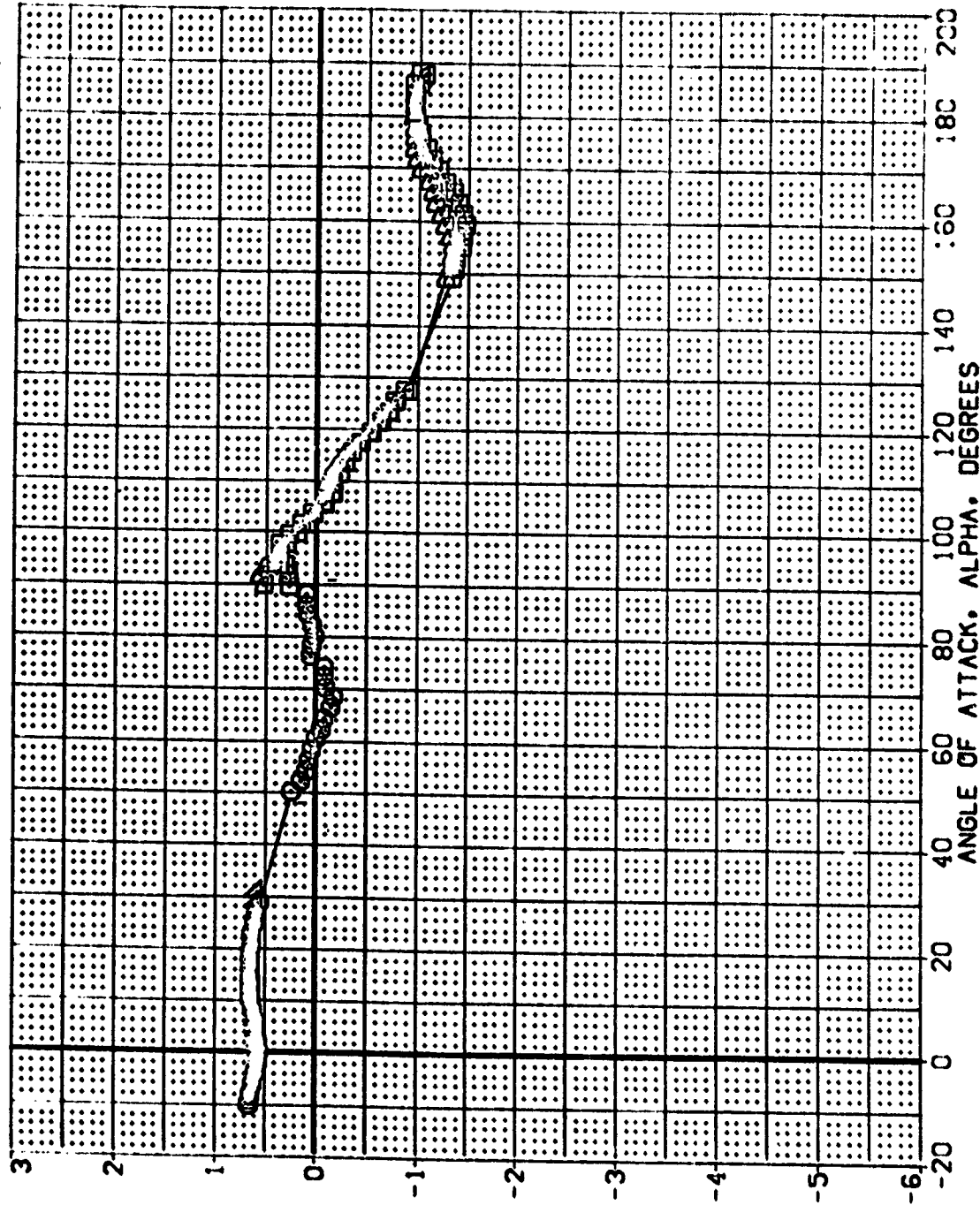
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CONFIGURATION DESCRIPTION
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 TITAN III C SRM (NBETP)
 TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 TITAN III C SRM (NBETP)
 TITAN III C SRM (NBETP)

DATA 5 5 90
 R57A05
 R57A06
 R57A07
 R57A08
 R57A09
 R57A10



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

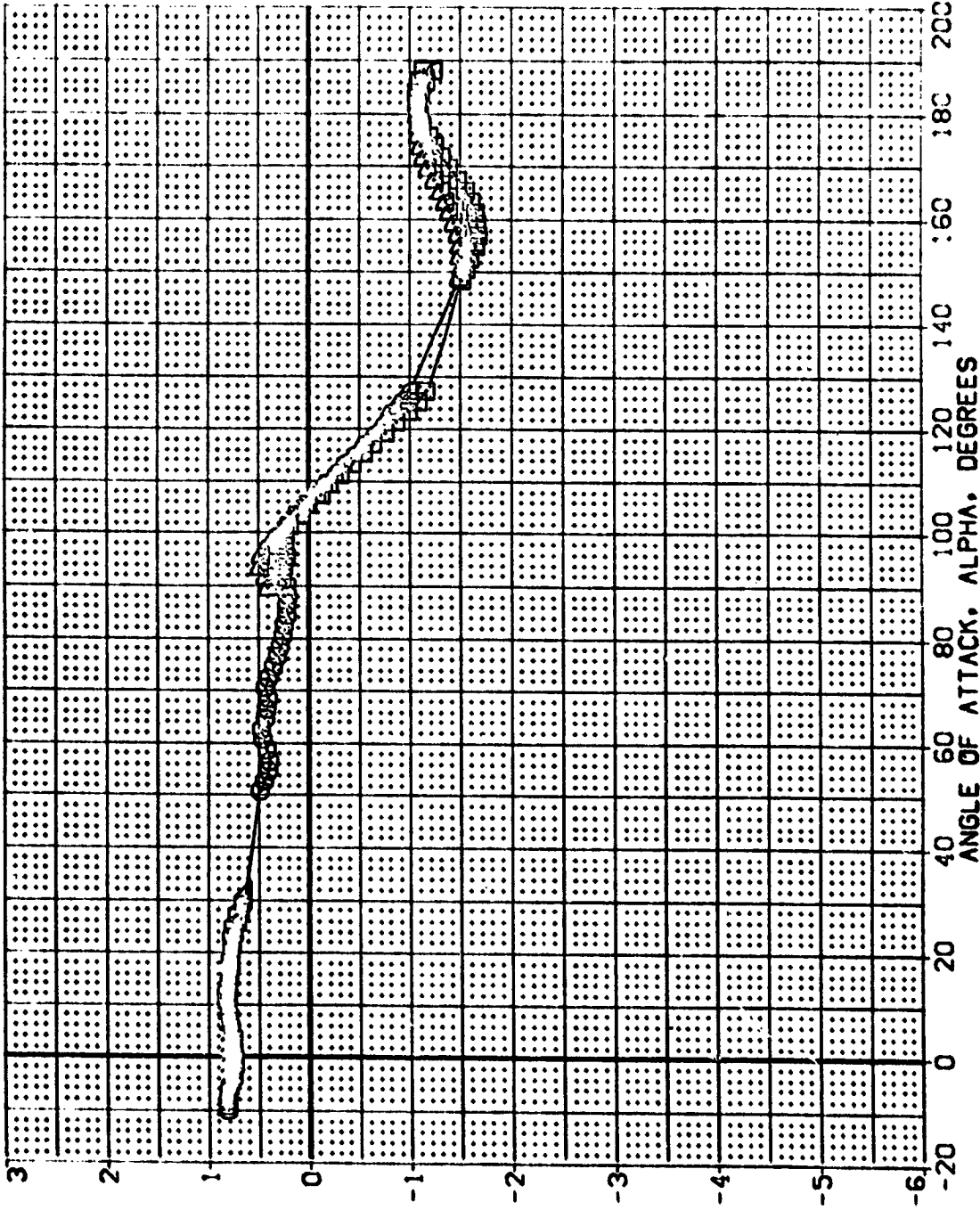
CAJ MACH = .60

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 :RSTAC6
 :RSTAC9
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 :RSTAC2

CONFIGURATION DESCRIPTION
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 MSC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
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 MSC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
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 YMRP .0000 IN .IN
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 SCALE .0074



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

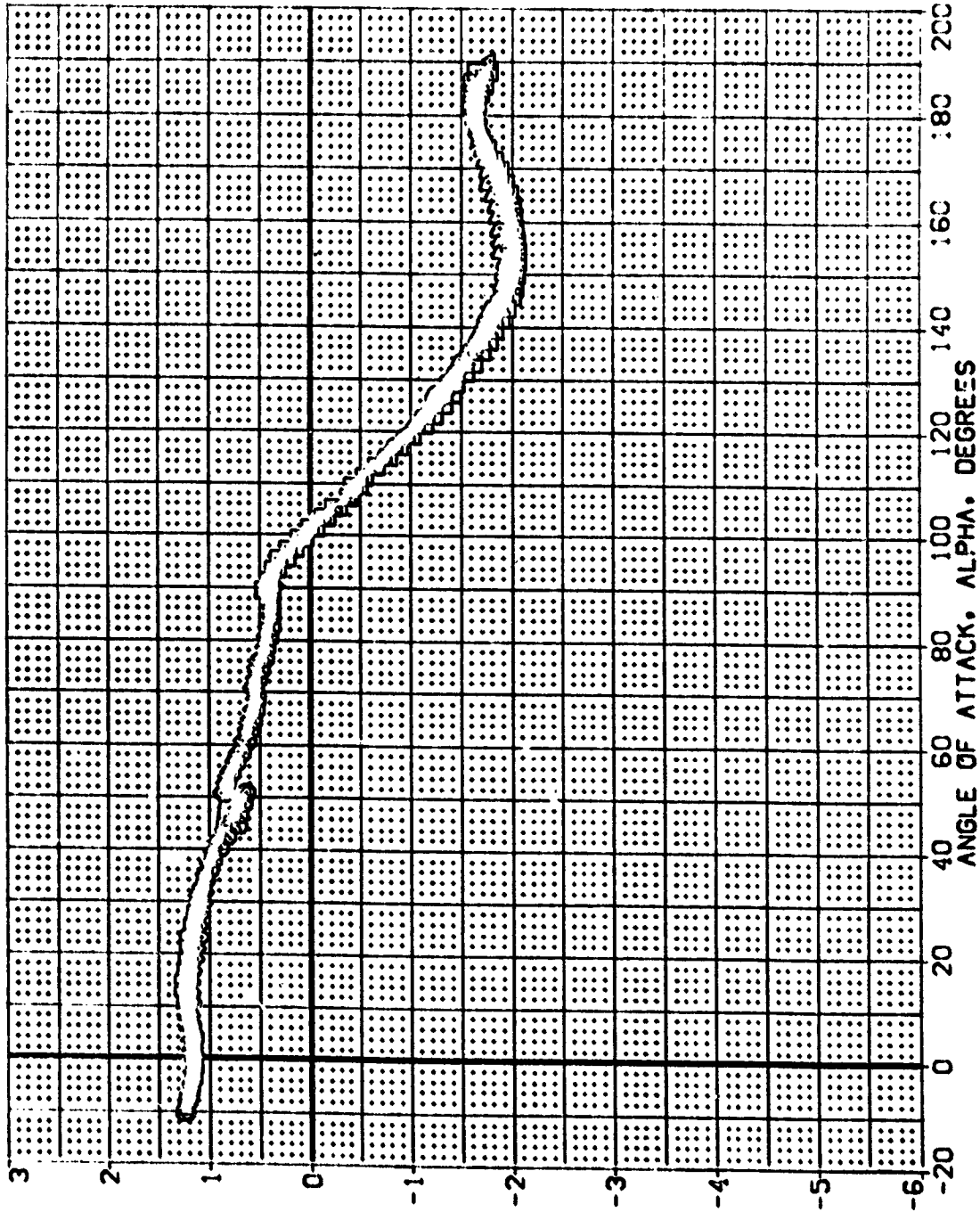
(B)MACH = .90



REFERENCE INFORMATION
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 SCALE 0.0074

BETA PHI
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 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 587(A4) TITAN SRM (NBETP)
 587(A4) TITAN SRM (NBETP)
 587(A4) TITAN SRM (NBETP)
 587(A4) TITAN SRM (NBETP)
 587(A4) TITAN SRM (NBETP)



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(C)MACH = 1.20

DATA SET SYMB. CONFIGURATION DESCRIPTION

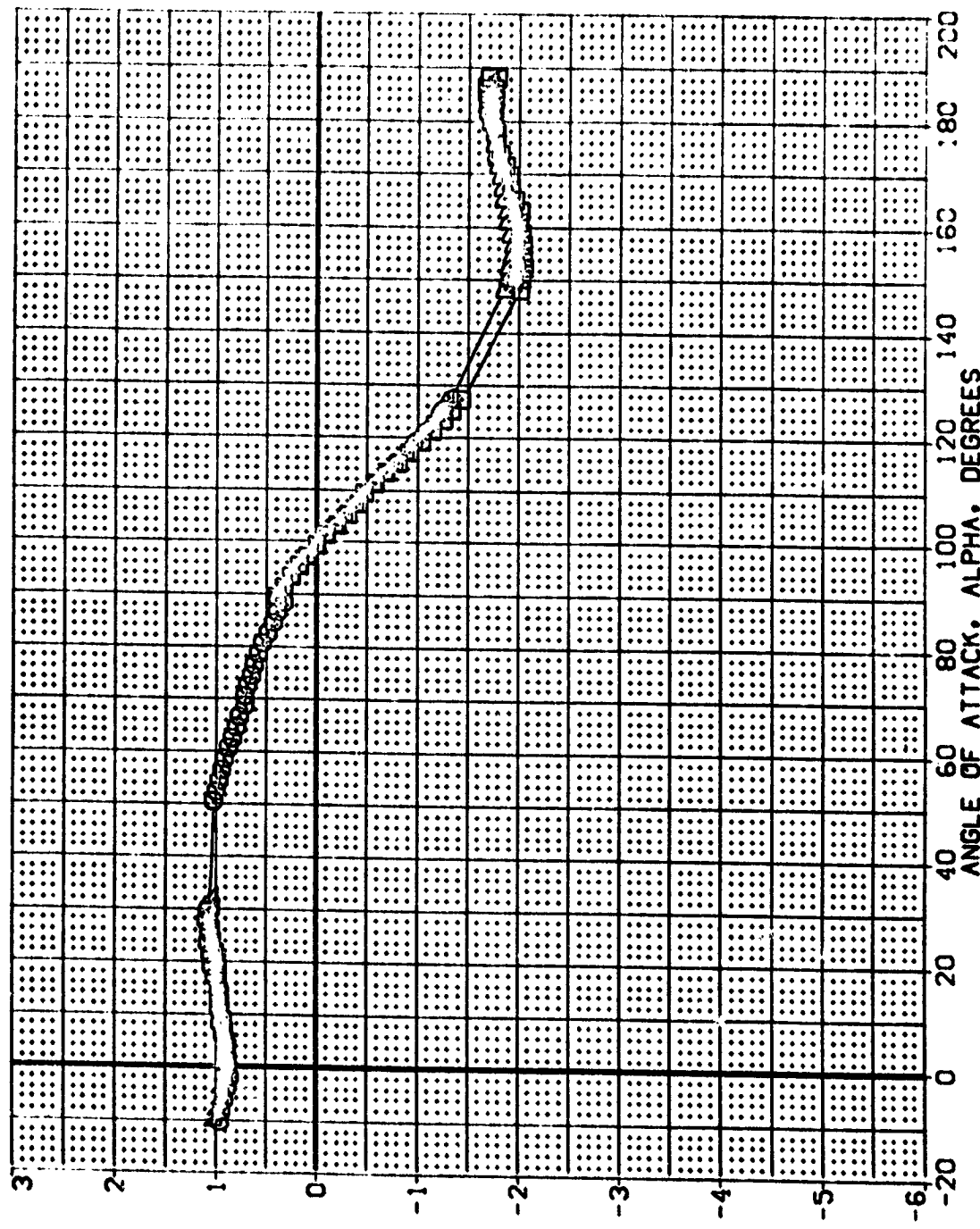
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BETA PHI

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REFERENCE INFORMATION

SREF 5360 SQ. IN
 LREF 5000 IN.
 BREF 5000 IN.
 Y-PRP 4.6330 IN.
 Z-PRP .0000 IN.
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AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(M)MACH = 1.96



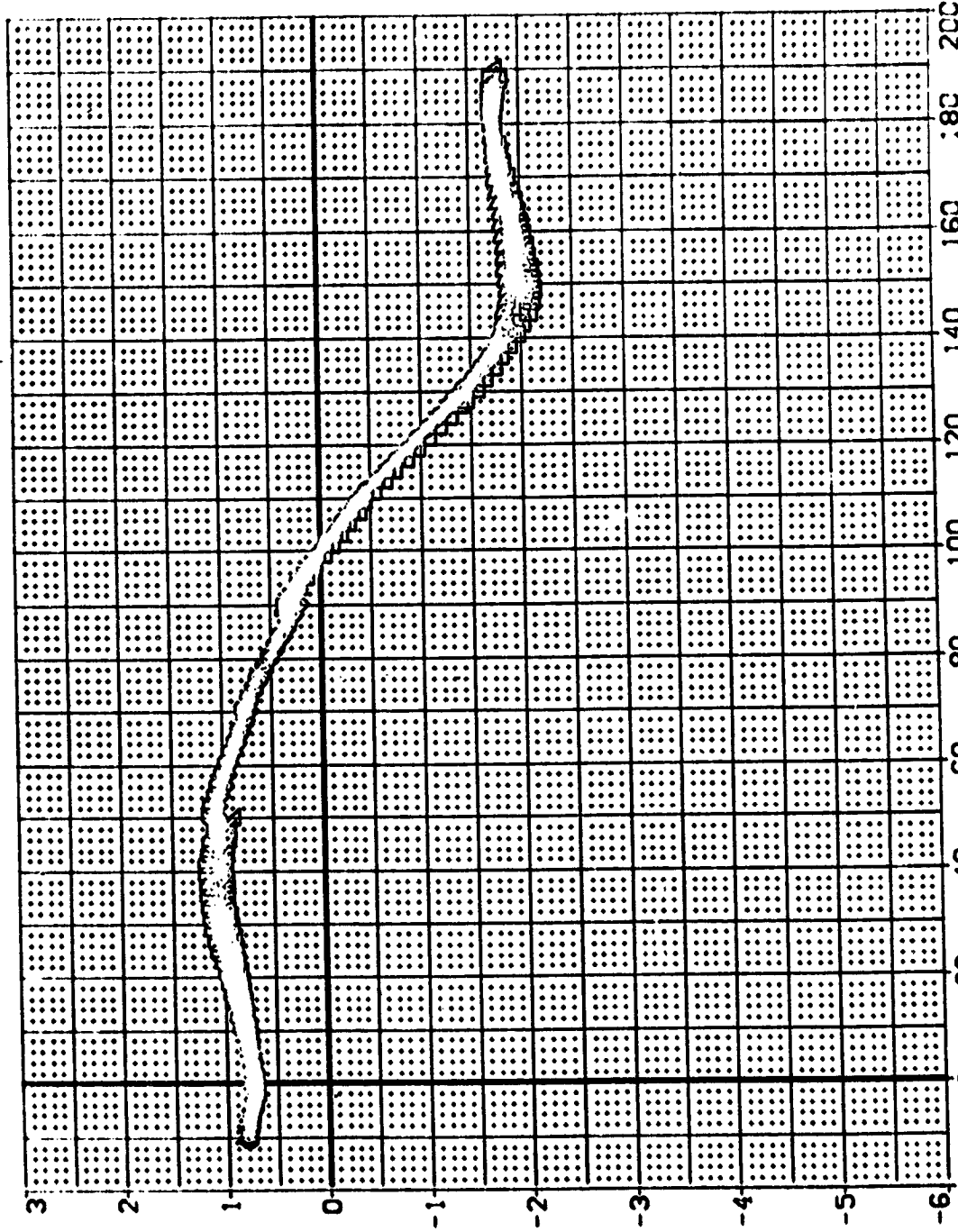
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 SCALE .0074

BETA PHI
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CONFIGURATION DESCRIPTION
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 587(F44) TITAN SRM (NBETP)
 587(F44) TITAN SRM (NBETP)
 587(F44) TITAN SRM (NBETP)
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 587(F44) TITAN SRM (NBETP)

DATA SET SYMBOL
 587A5
 587A6
 587A7
 587A8
 587A9



AXIAL FORCE COEFFICIENT, CA

ANGLE OF ATTACK, ALPHA, DEGREES
 LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJMACH = 3.48

REFERENCE INFORMATION IN

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BETA PHI

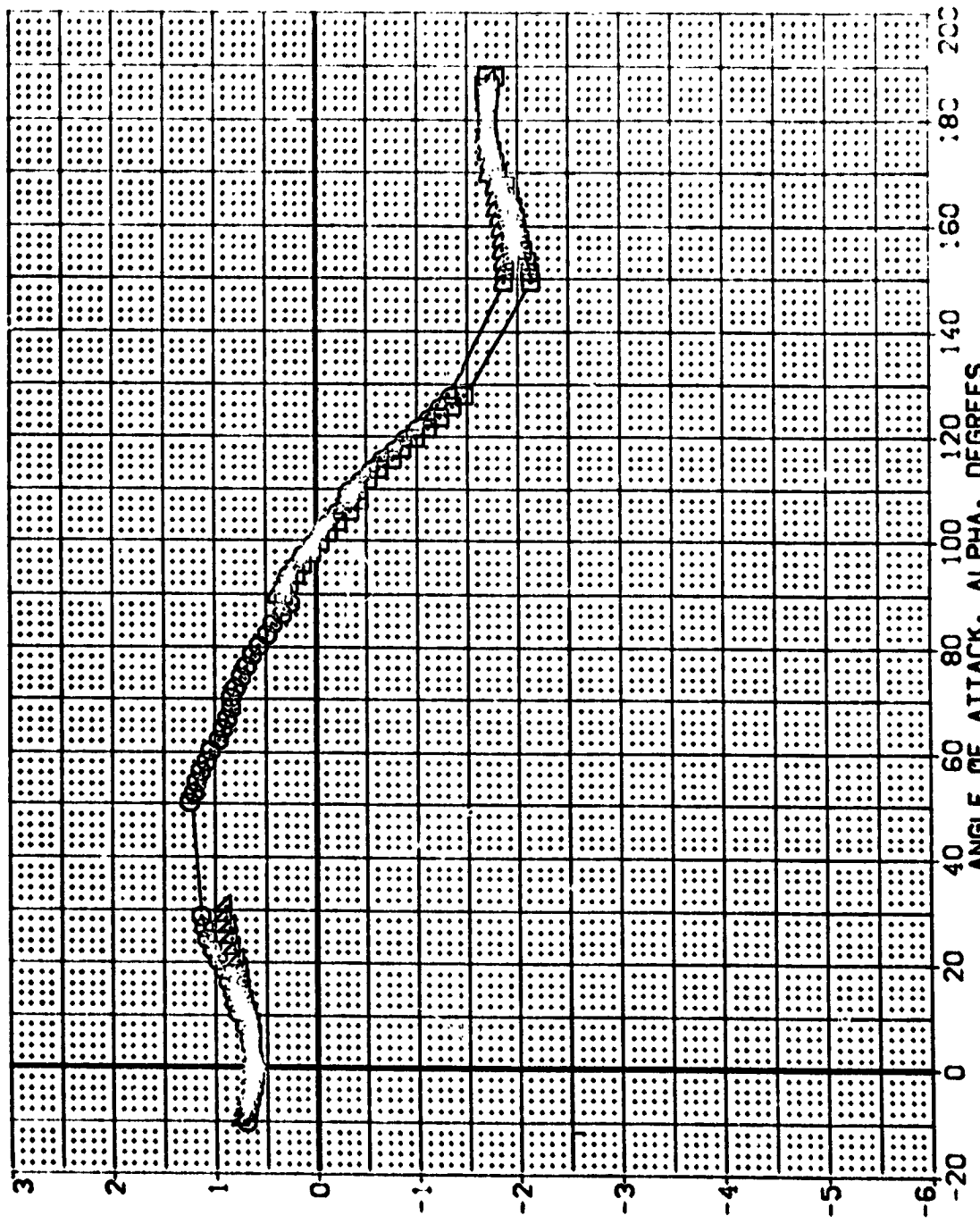
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CONFIGURATION DESCRIPTION

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 MSC 587(FA4) TITAN III C SRM (NBETP)
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DATA SET SYMBO

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 W002



AXIAL FORCE COEFFICIENT, CA

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

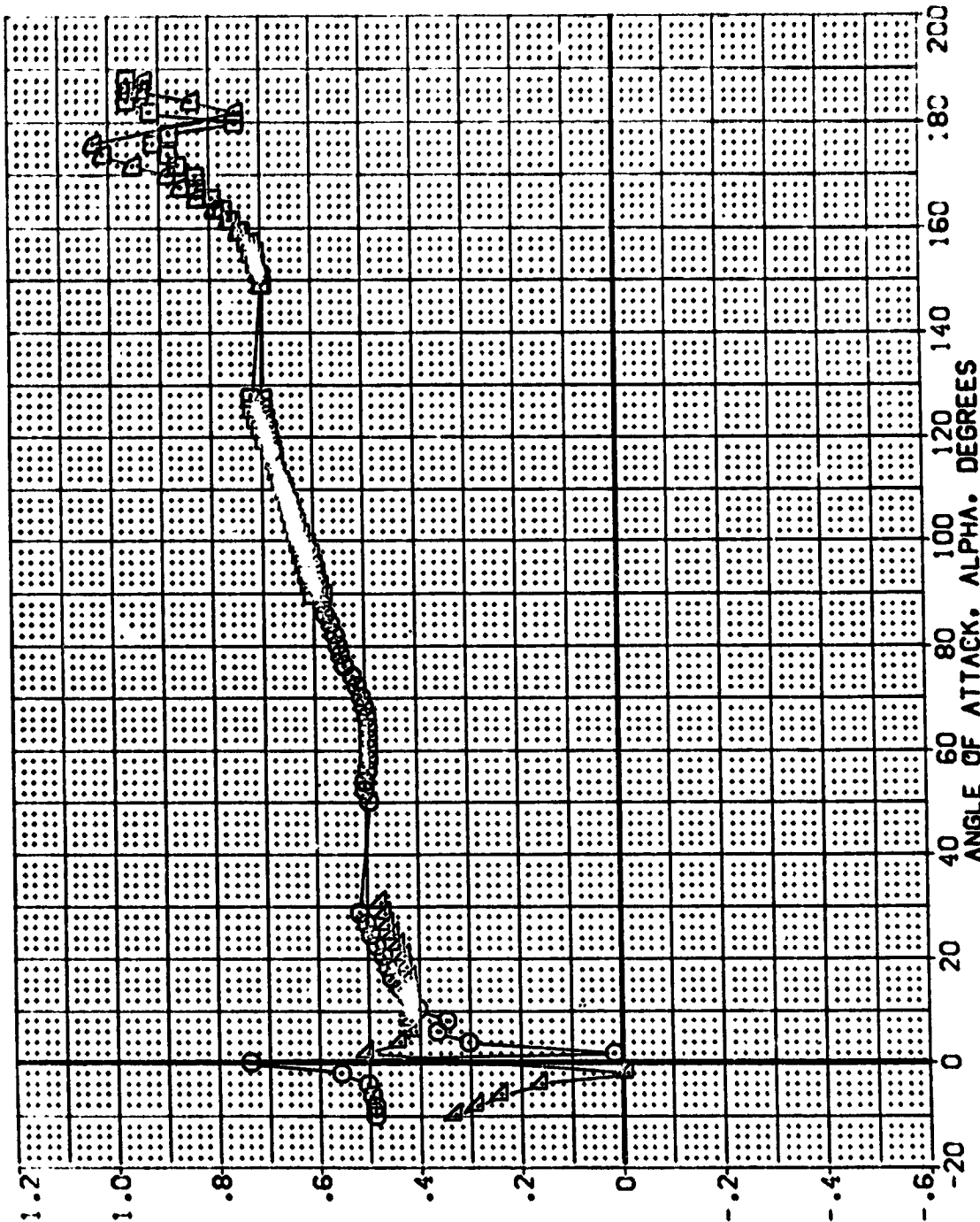
(F)MACH = 4.96



REFERENCE INFORMATION
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 SCALE 0074

BETA PHI
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CONF. DESCRIPTION
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 S87(F44) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
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CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

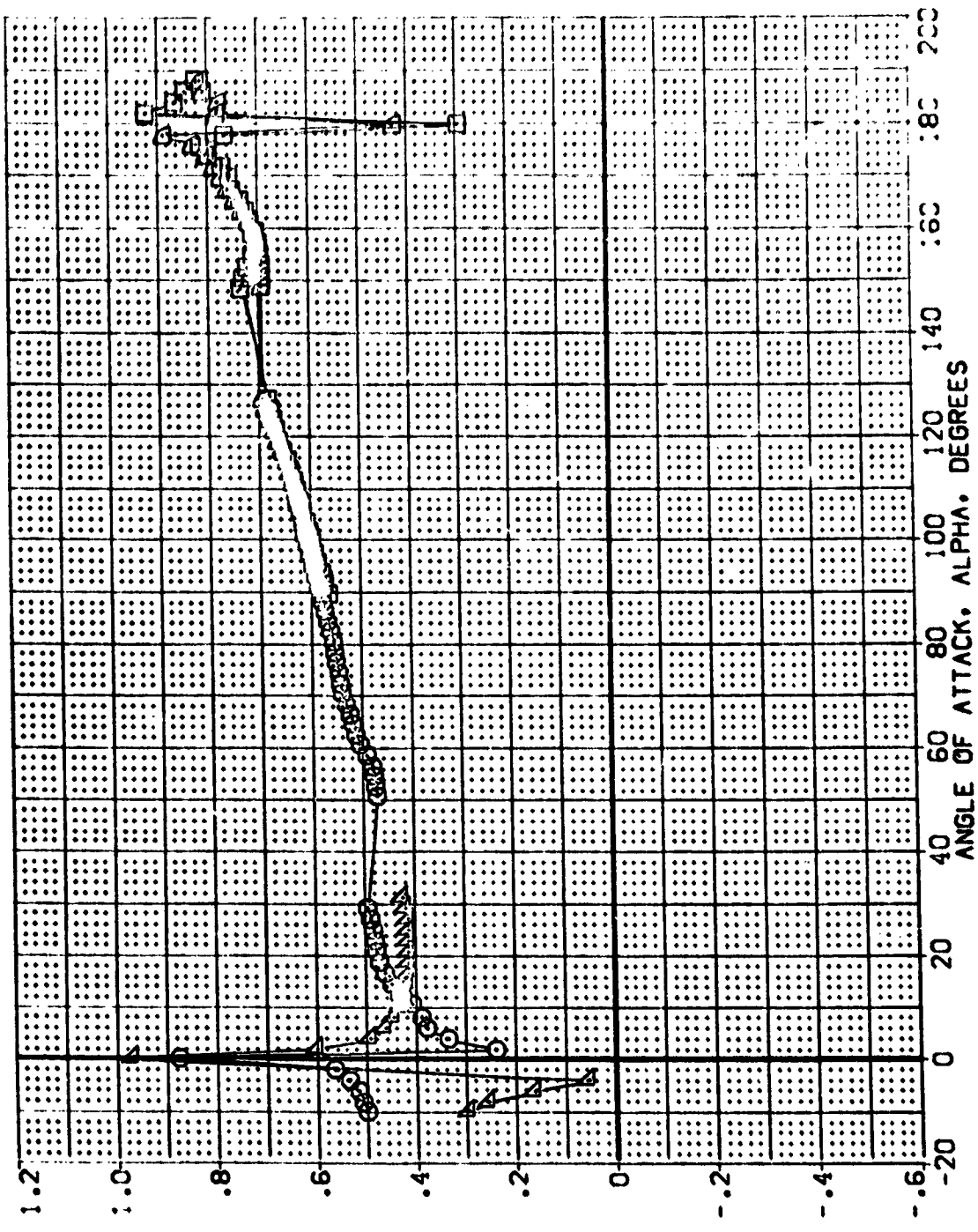
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(AJMACH = .60

REFERENCE INFORMATION:
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 SCALE: 0074

BETA PHI
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 MSC 587(FM) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
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 MSC 587(FM) TITAN III C SRM (NBETP)



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(B)MACH = .90
 PAGE: 92

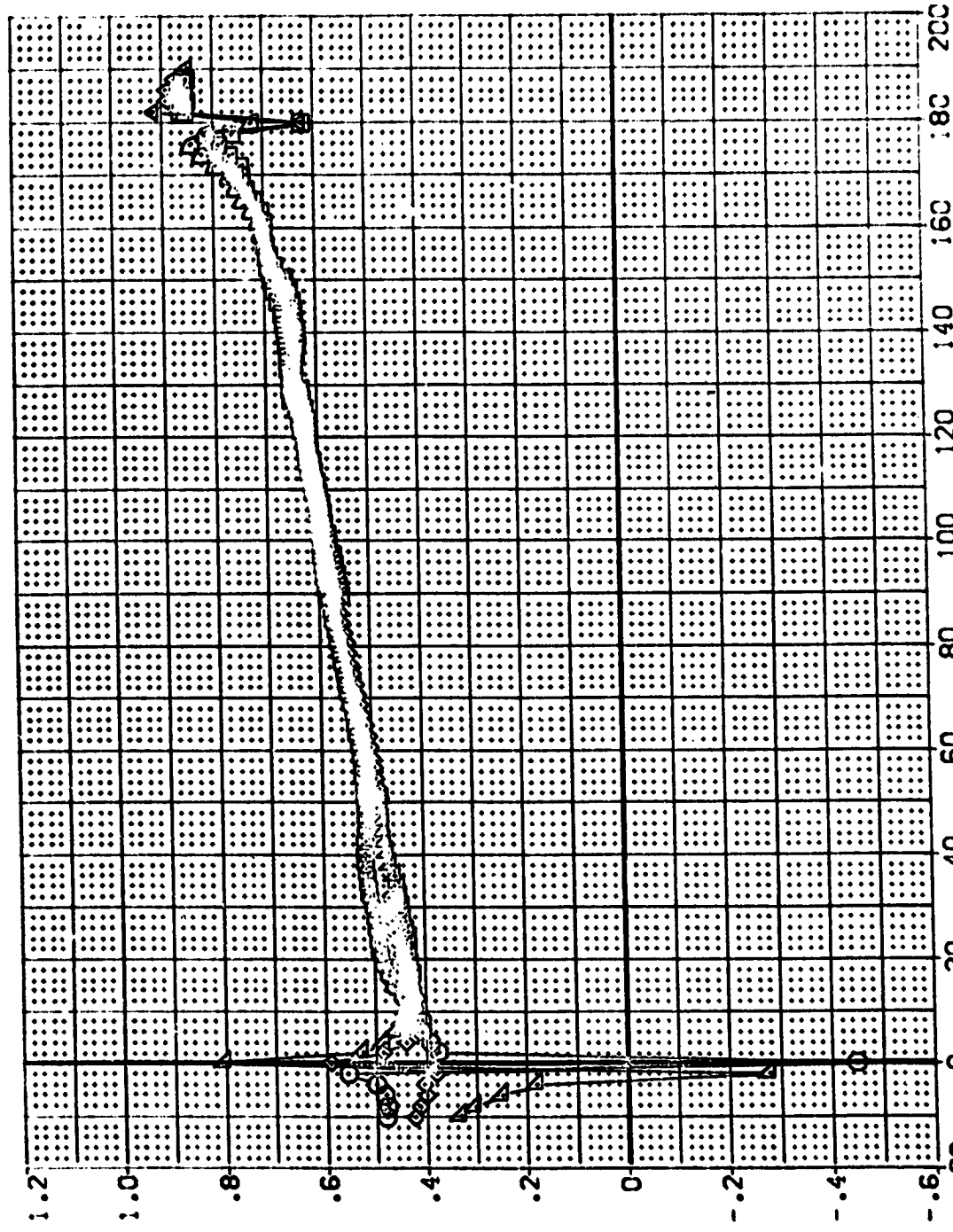


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 .0000
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BETA PHI
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 087 (FA4) TITAN (NBETP) C C C C C C C
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CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

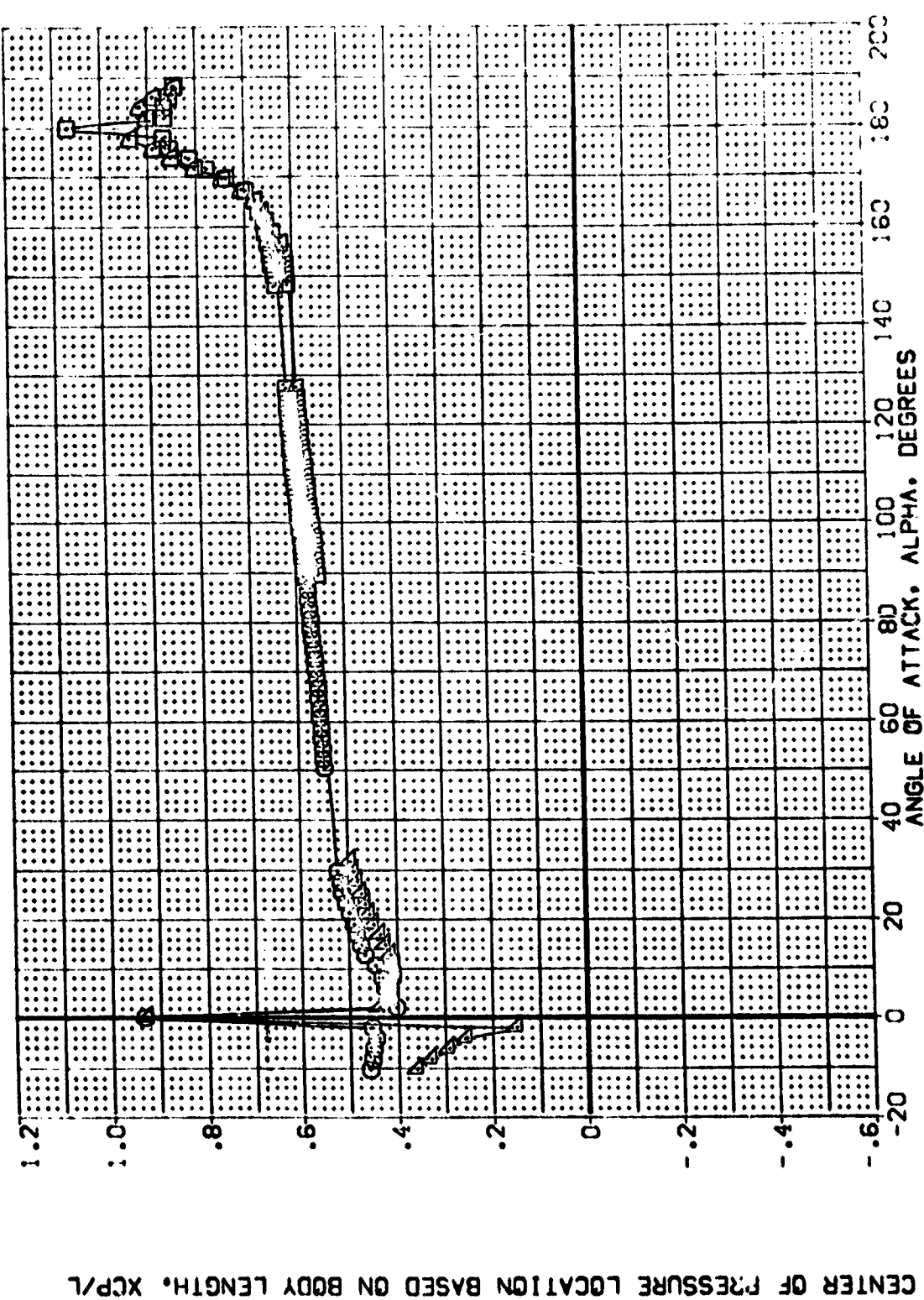
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)
 (C)MACH = 1.20

REFERENCE INFORMATION
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 YMRP 5000
 ZMRP 5000
 SCALE 0074

BETA PHI
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 .000 .000

CONFIGURATION DESCRIPTION
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 MS C 587(F4) TITAN III C SRM (NBETP)
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 DATA NOT AVAILABLE
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 MS C 587(F4) TITAN III C SRM (NBETP)

DATA SET SYMB.
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 :RSTAC2
 :RSTAC3
 :RSTAC4
 :RSTAC5



LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

COMACH = 1.96



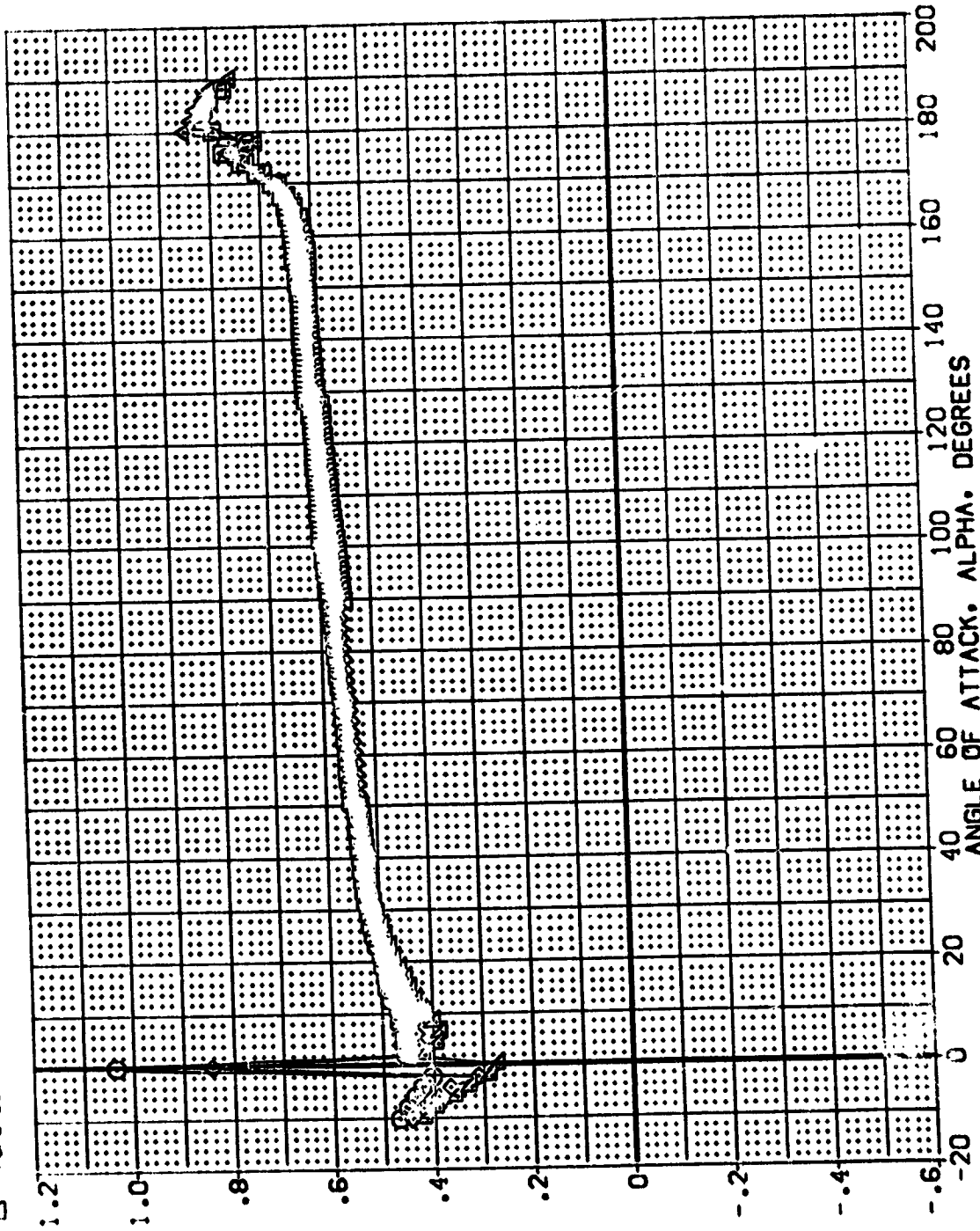
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SREF
 LREF
 BREF
 XMRP
 YMRP
 ZMRP
 SCALE

BETA PHI
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 .000 337.500
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 .000 .000
 .000 .000

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	SRM (NBETP)
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197B	○	587(FA4)	TITAN III	SRM (NBETP)
197C	○	587(FA4)	TITAN III	SRM (NBETP)
197D	○	587(FA4)	TITAN III	SRM (NBETP)
197E	○	587(FA4)	TITAN III	SRM (NBETP)
197F	○	587(FA4)	TITAN III	SRM (NBETP)
197G	○	587(FA4)	TITAN III	SRM (NBETP)
197H	○	587(FA4)	TITAN III	SRM (NBETP)
197I	○	587(FA4)	TITAN III	SRM (NBETP)
197J	○	587(FA4)	TITAN III	SRM (NBETP)
197K	○	587(FA4)	TITAN III	SRM (NBETP)
197L	○	587(FA4)	TITAN III	SRM (NBETP)
197M	○	587(FA4)	TITAN III	SRM (NBETP)
197N	○	587(FA4)	TITAN III	SRM (NBETP)
197O	○	587(FA4)	TITAN III	SRM (NBETP)
197P	○	587(FA4)	TITAN III	SRM (NBETP)
197Q	○	587(FA4)	TITAN III	SRM (NBETP)
197R	○	587(FA4)	TITAN III	SRM (NBETP)
197S	○	587(FA4)	TITAN III	SRM (NBETP)
197T	○	587(FA4)	TITAN III	SRM (NBETP)
197U	○	587(FA4)	TITAN III	SRM (NBETP)
197V	○	587(FA4)	TITAN III	SRM (NBETP)
197W	○	587(FA4)	TITAN III	SRM (NBETP)
197X	○	587(FA4)	TITAN III	SRM (NBETP)
197Y	○	587(FA4)	TITAN III	SRM (NBETP)
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CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

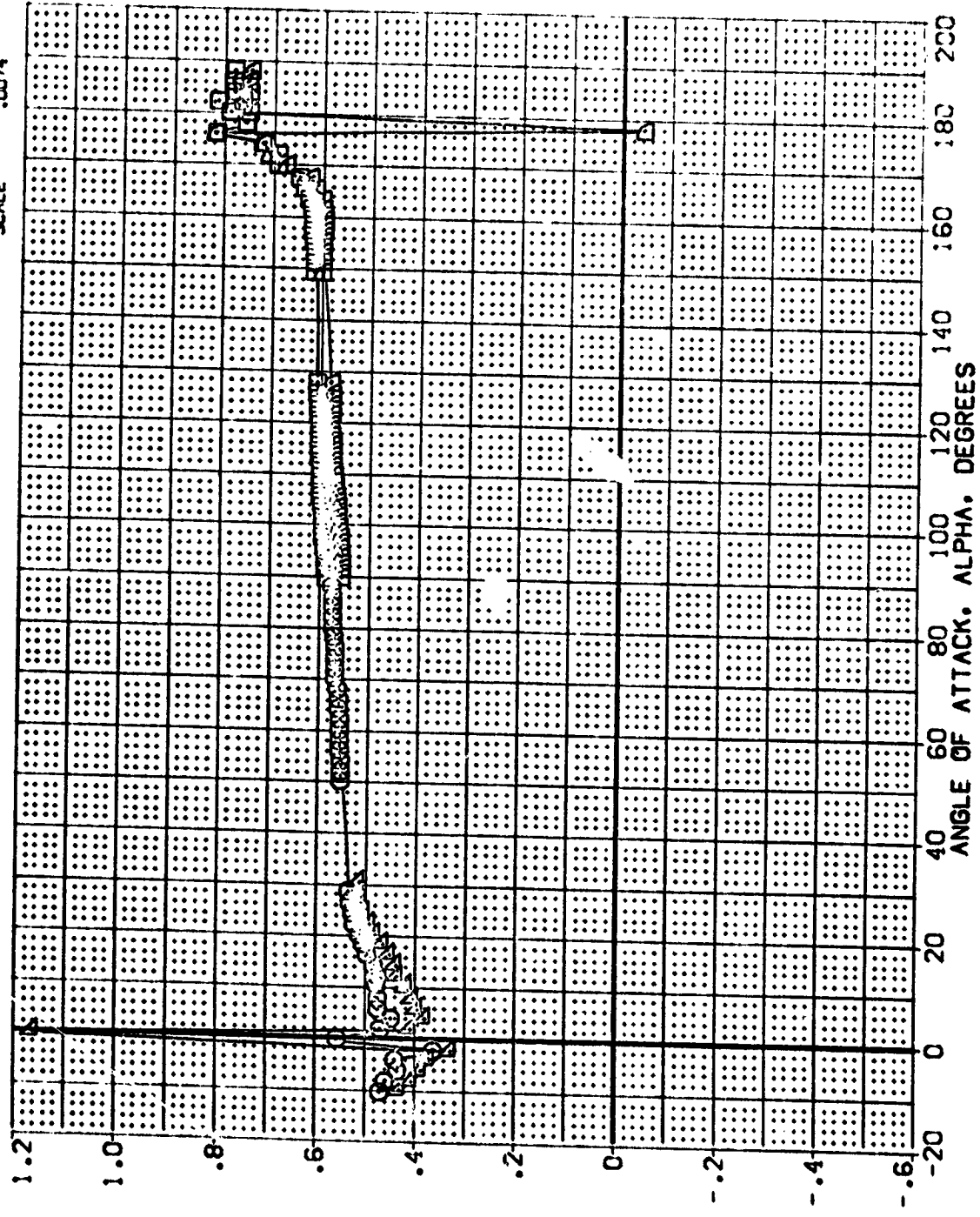
LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

CEJMACH = 3.48

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 (RSTAC6) | 1 MSFC 587(FM4) TITAN III C SRM (NBETP)
 (RSTAC7) | 2 MSFC 587(FM4) TITAN III C SRM (NBETP)
 (RSTAC8) | 3 DATA NOT AVAILABLE
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 (RSTAC2) | 5 MSFC 587(FM4) TITAN III C SRM (NBETP)

BETA PHI
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 .000 307.500
 .000 307.500
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REFERENCE INFORMATION
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 BREF .3000 IN.
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 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



CENTER OF PRESSURE LOCATION BASED ON BODY LENGTH, XCP/L

LONGITUDINAL STABILITY CHARACTERISTICS OF THE TITAN SRM (NBETP)

(FM)MACH = 4.96



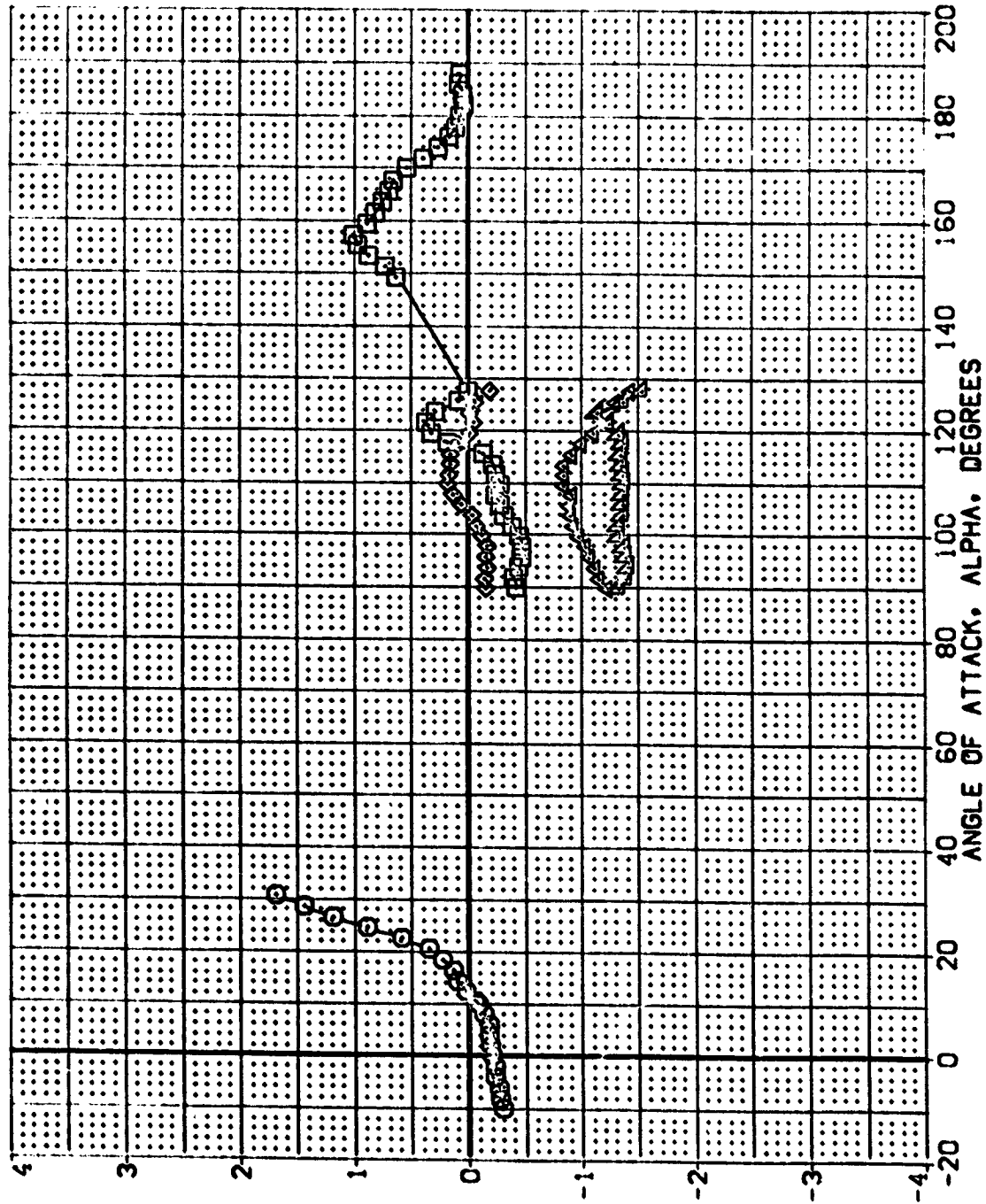
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DATA SET SYMBL CONFIGURATION DESCRIPTION
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 MS C 587(F44) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(A)MACH = .59

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

[R57A01] MSFC 587(FA4) TITAN III C SRM (NBE1P)

[R57A02] MSFC 587(FA4) TITAN III C SRM (NBE1P)

[R57A21] MSFC 587(FA4) TITAN III C SRM (NBE1P)

[R57A20] MSFC 587(FA4) TITAN III C SRM (NBE1P)

[R57A19] MSFC 587(FA4) TITAN III C SRM (NBE1P)

BETA PH-I

.000 .000

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REFERENCE INFORMATION

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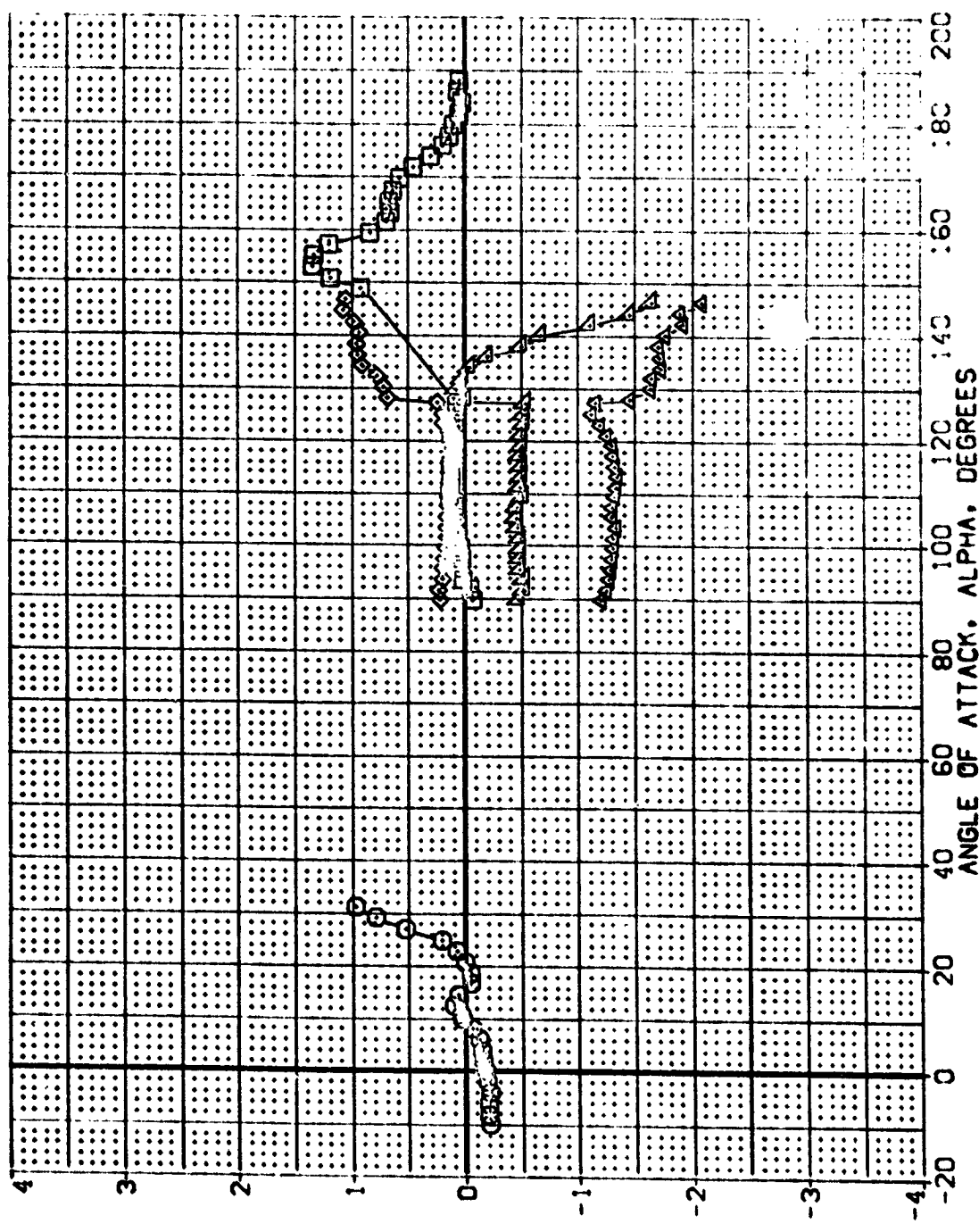
XMRP 4.6330 IN

YMRP .0000 IN

ZMRP .0000 IN

SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE1P)

(B)MACH = .90

PAGE 98

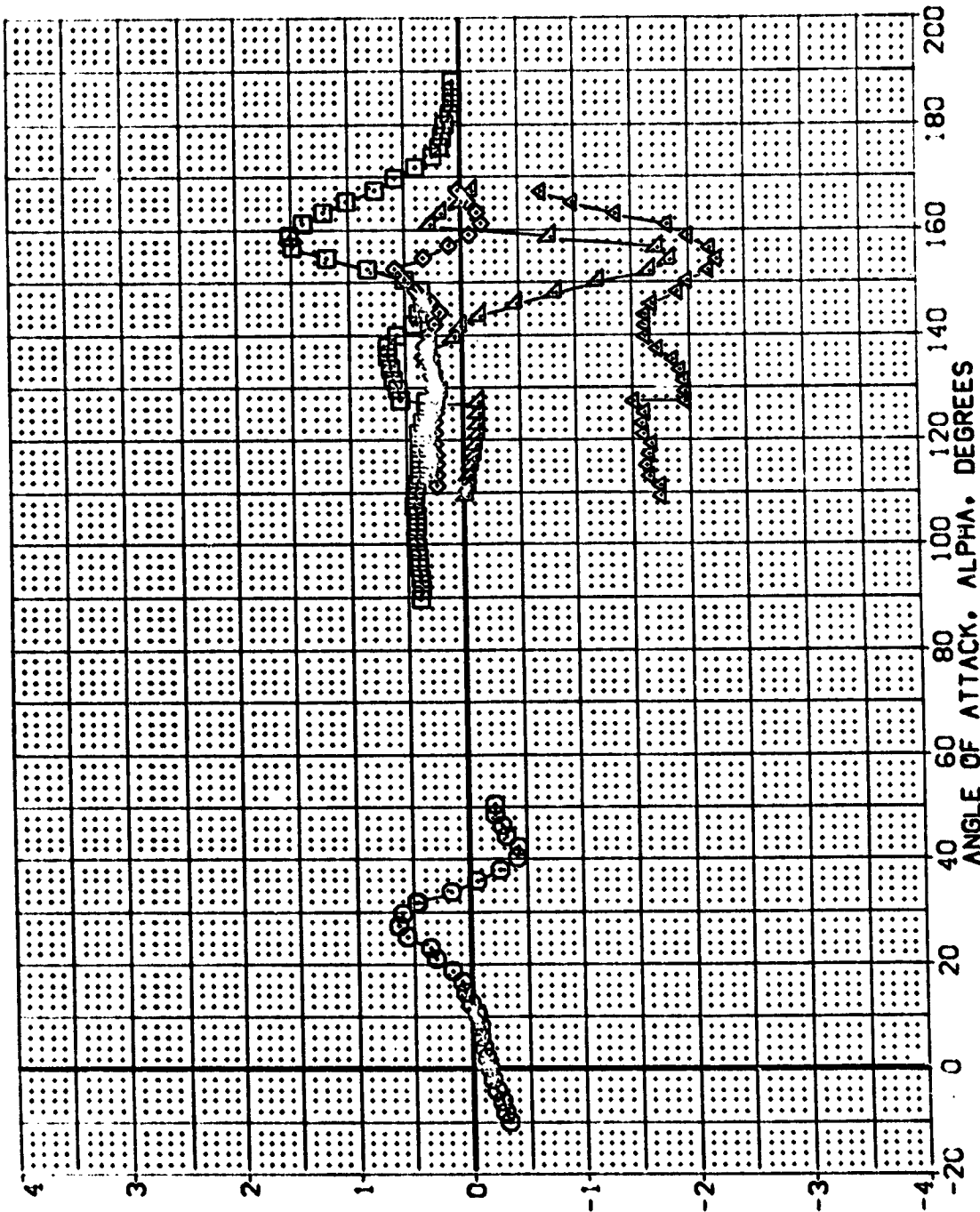


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 .000 135.000

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 [97A27] C SRM (NBETP)
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 [97A29] C SRM (NBETP)



MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.20

DATA SET SYMBOLS: :R97A1: :R97A2: :R97A3: :R97A4: :R97A5:

CONFIGURATION DESCRIPTION: :S7C: :S7C: :S7C: :S7C: :S7C:

TITAN III TITAN III TITAN III TITAN III TITAN III

SRM (NBETP) SRM (NBETP) SRM (NBETP) SRM (NBETP) SRM (NBETP)

BETA PHI: .000 .000 .000 .000 .000

.000 .000 .000 .000 .000

45.000 90.000 135.000

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LREF .5000 IN. IN.

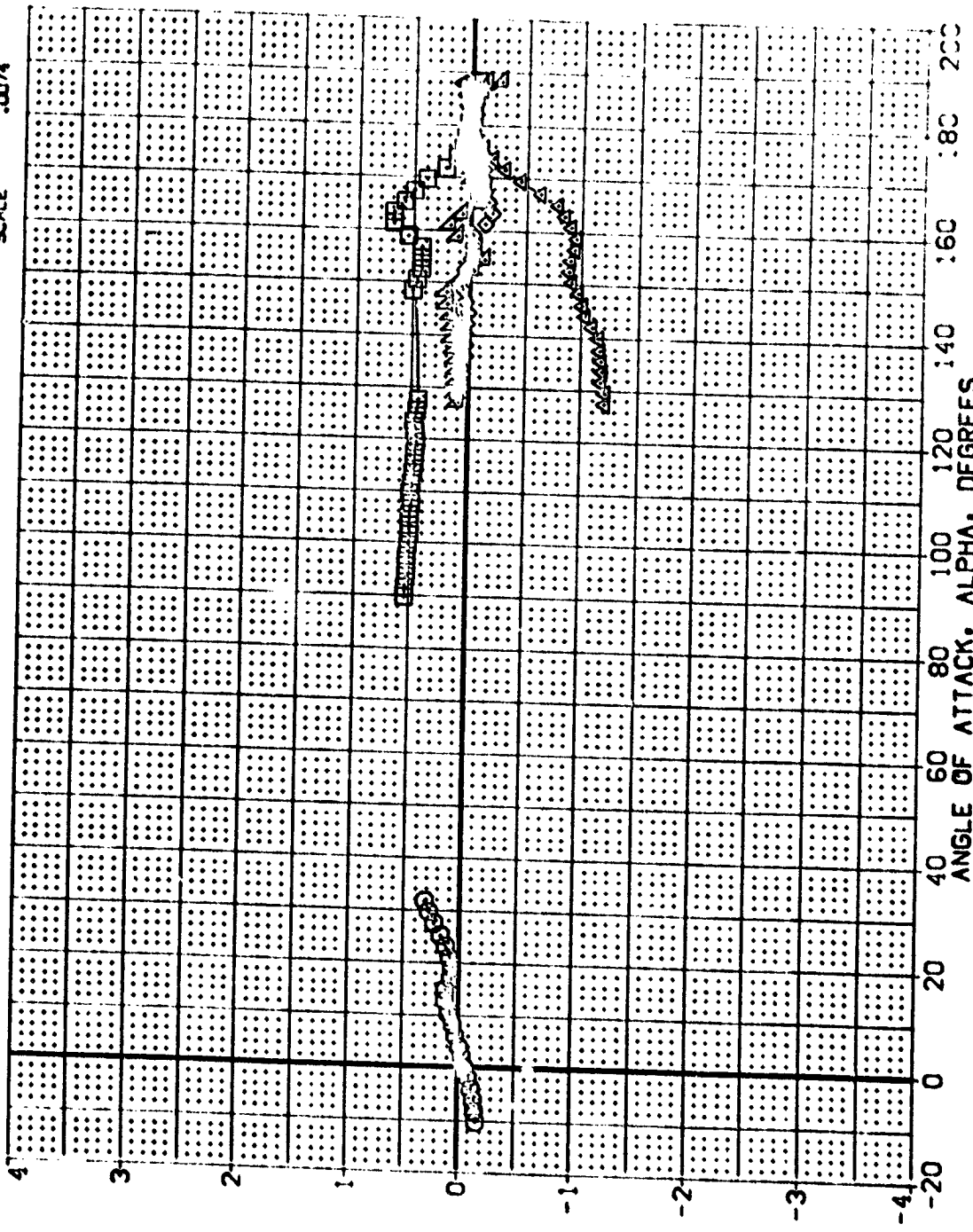
BREF .5000 IN. IN.

XMRP 4.6330 IN. IN.

YMRP .0000 IN. IN.

ZMRP .0000 IN. IN.

SCALE .0074



MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

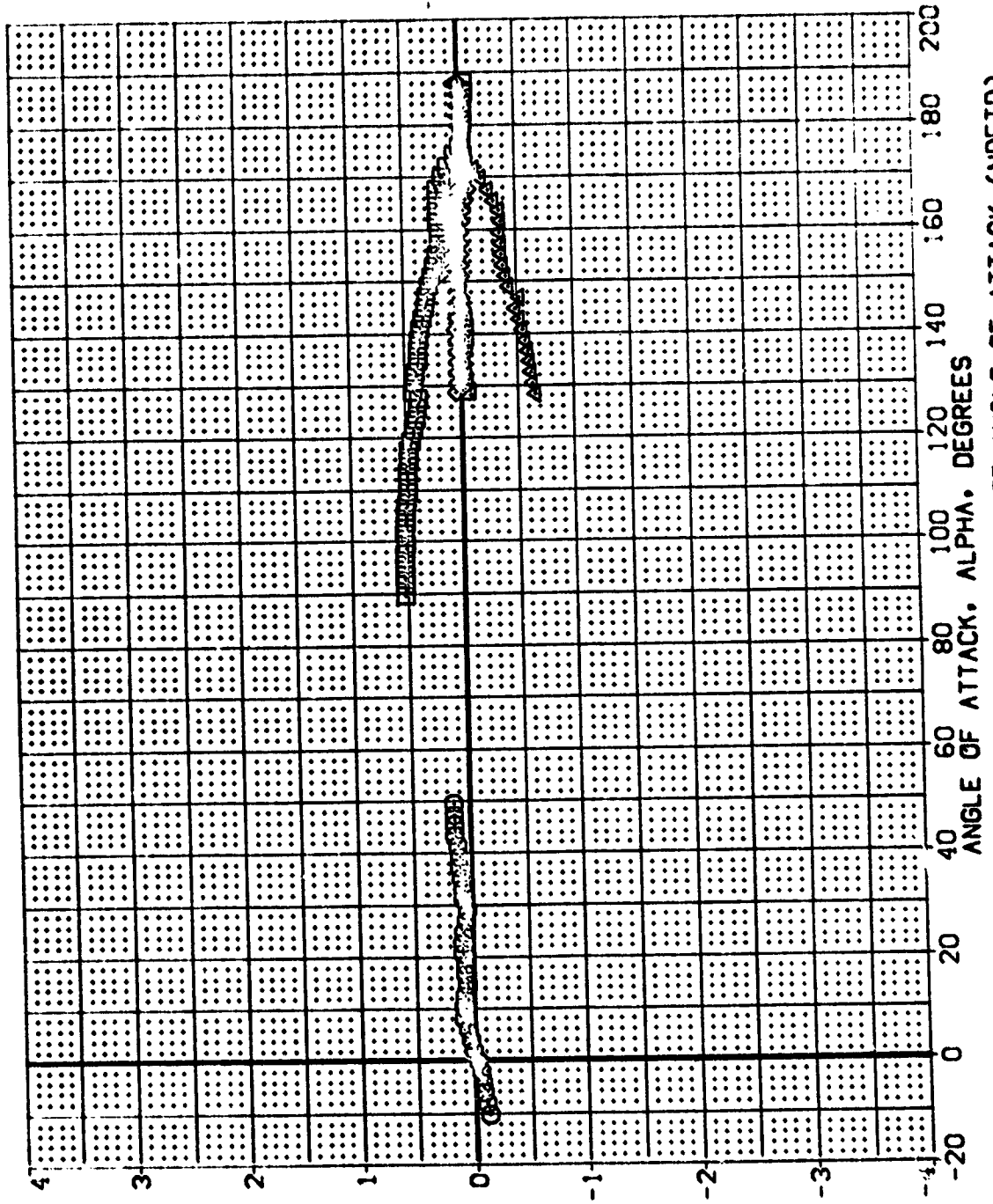


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 N: ZZ: ZZ:
 L: REF
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 Z: MRP
 SCALE
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 .0000
 4.6330
 .0000
 .0000
 .0074

BETA PHJ
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SE S WBO CONFIGURATION DESCRIPTION
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 : 587 (FA4) TITAN C SRM (NBETP)
 : 587 (FA4) TITAN C SRM (NBETP)
 : 587 (FA4) TITAN C SRM (NBETP)
 : 587 (FA4) TITAN C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

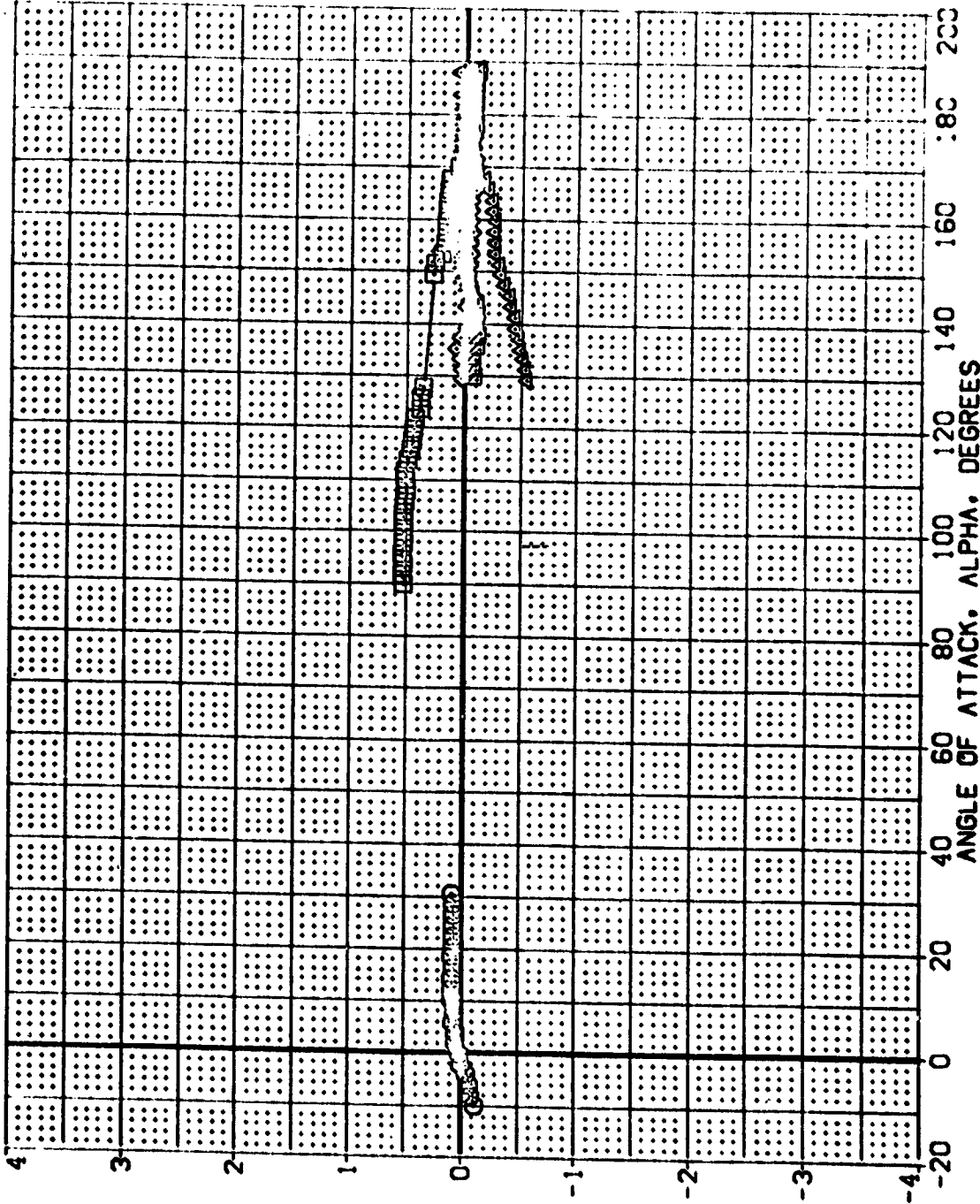


MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

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 X C 587 (FA4) TITAN III C SRM (NBETP)
 X C 587 (FA4) TITAN III C SRM (NBETP)

BETA PH1
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 .000 .000
 .000 48.000
 .000 90.000
 .000 135.000

REFERENCE INFORMATION
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 BREF .9000 IN.
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 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

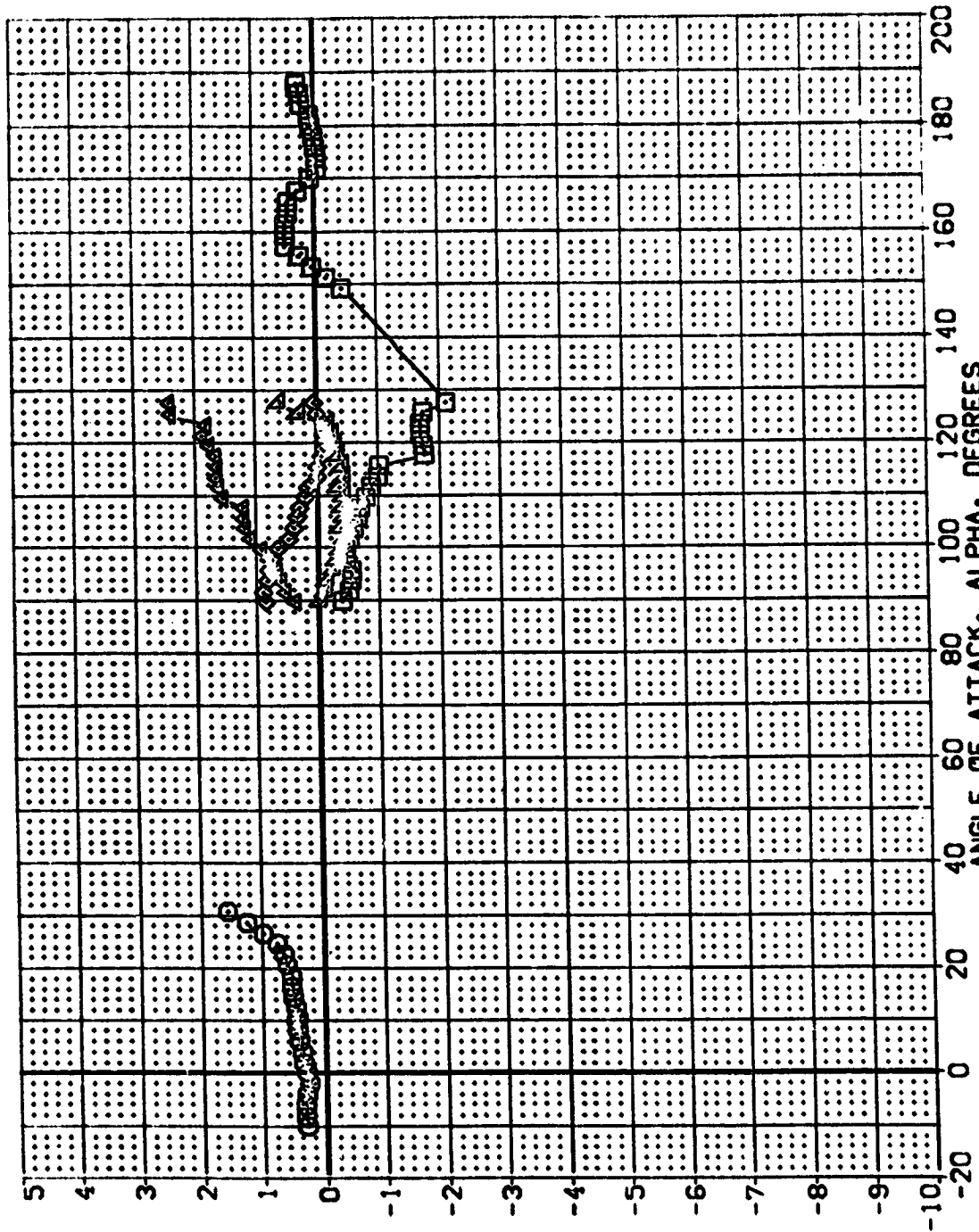
(F)MACH = 4.96

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 BRREF .9000 IN IN
 XMRP 4.6330 IN IN
 YMRP .0000 IN IN
 ZMRP .0000 IN IN
 SCALE .0074

BETA PHI
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 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 (RSTAO2) X MS-C 5B7(FA4) TITAN III C SRM (NBETP)
 (RSTAO3) X MS-C 5B7(FA4) TITAN III C SRM (NBETP)
 (RSTAO4) X MS-C 5B7(FA4) TITAN III C SRM (NBETP)



MISSILE YAWING MOMENT COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

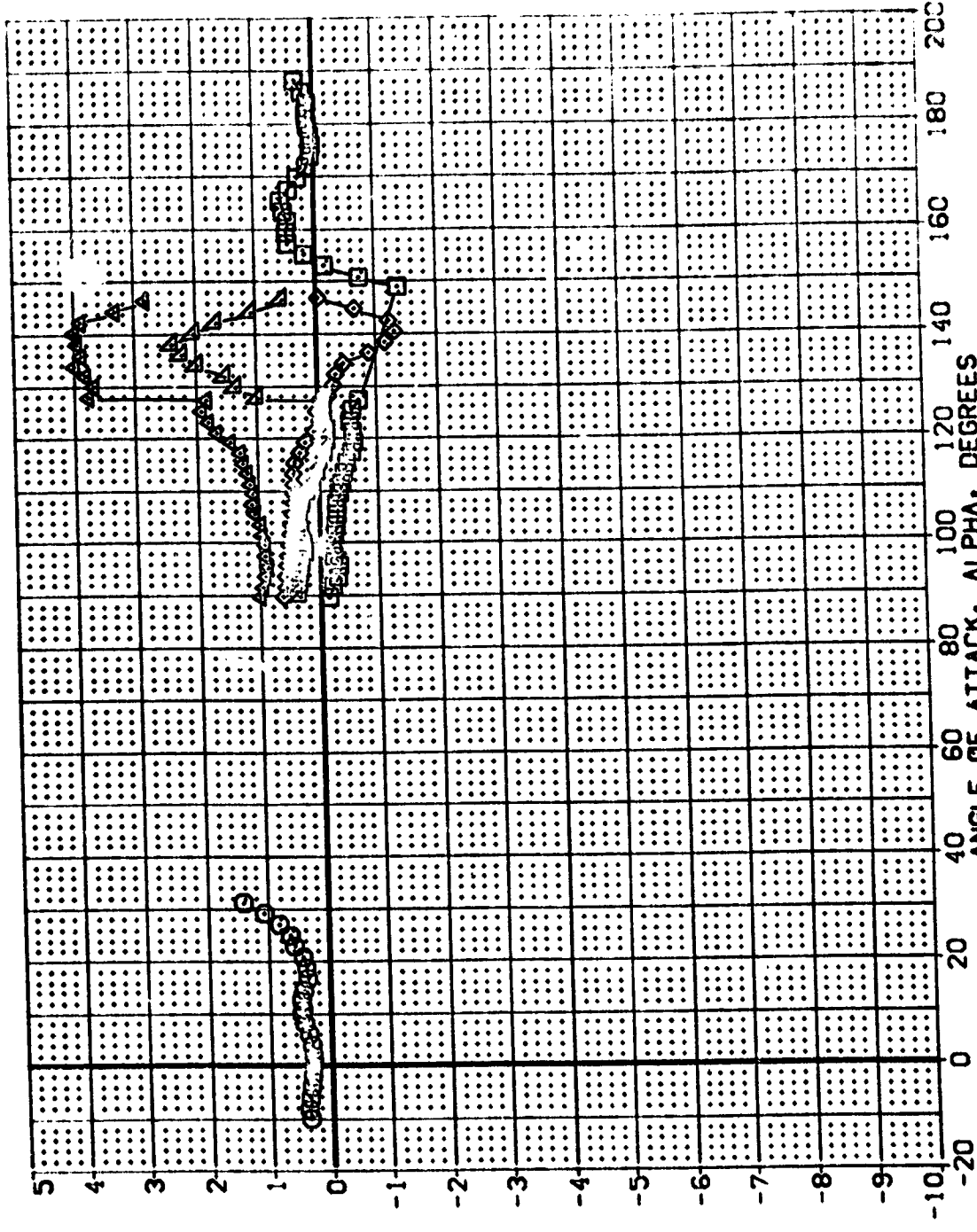
CAJMACH = .59

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

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 BREF .5000 IN.
 XMRP 4.6350 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (R57A20) X
 (R57A21) X
 (R57A22) X
 (R57A23) X
 (R57A19) X
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)
 MS C 587 (FA4) TITAN III C SRM (NBETP)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

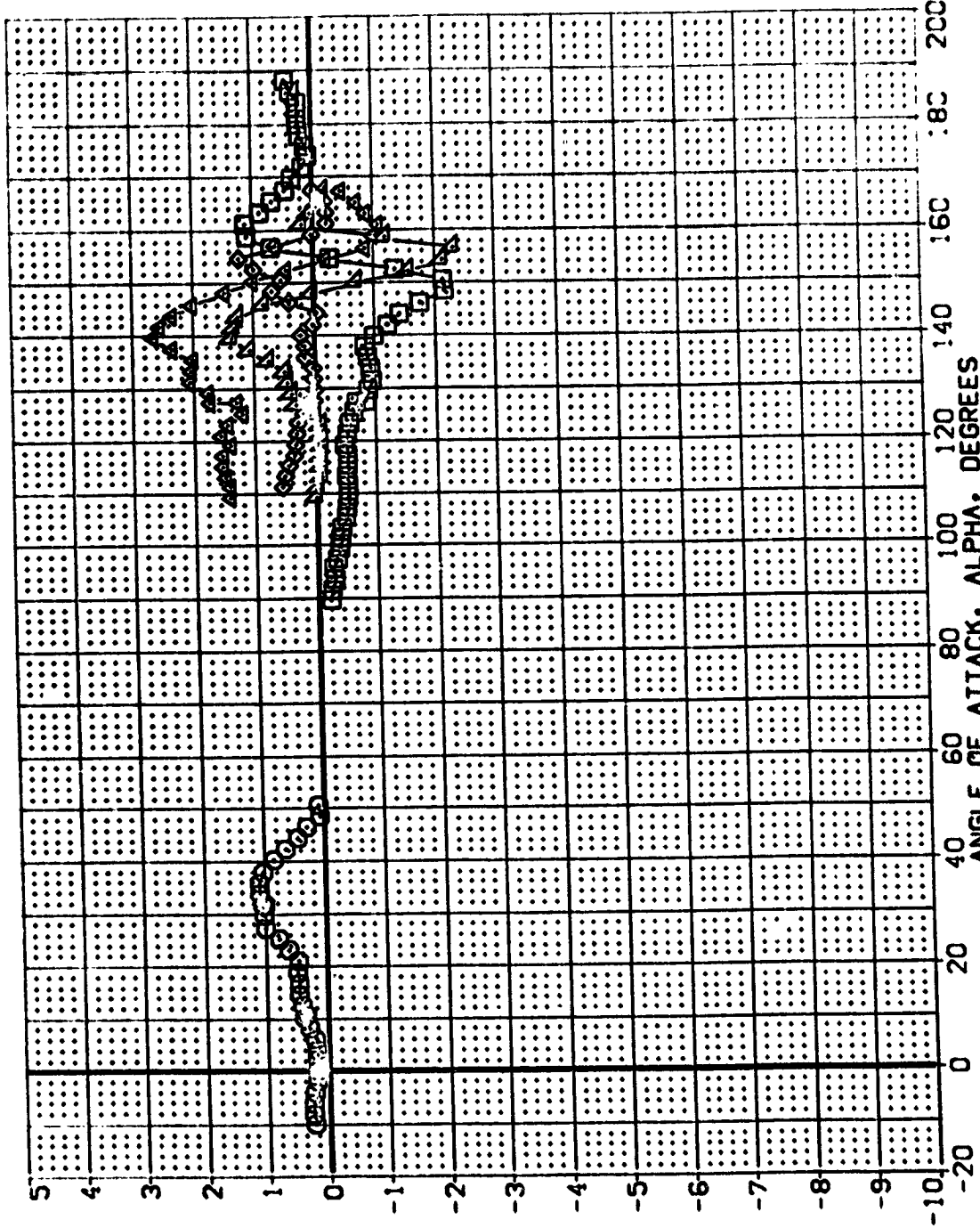


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 YMRP .0000 IN. IN.
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 SCALE .0074

BETA PHI
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 .000 90.000
 .000 135.000

DATA SET SY-90 CONFIGURATION DESCRIPTION
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 :RBTAC2: C MSFC 587(FAA) TITAN III C SRM (NBE IP)
 :RBTAC3: C MSFC 587(FAA) TITAN III C SRM (NBE IP)
 :RBTAC4: C MSFC 587(FAA) TITAN III C SRM (NBE IP)
 :RBTAC5: C MSFC 587(FAA) TITAN III C SRM (NBE IP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYMM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

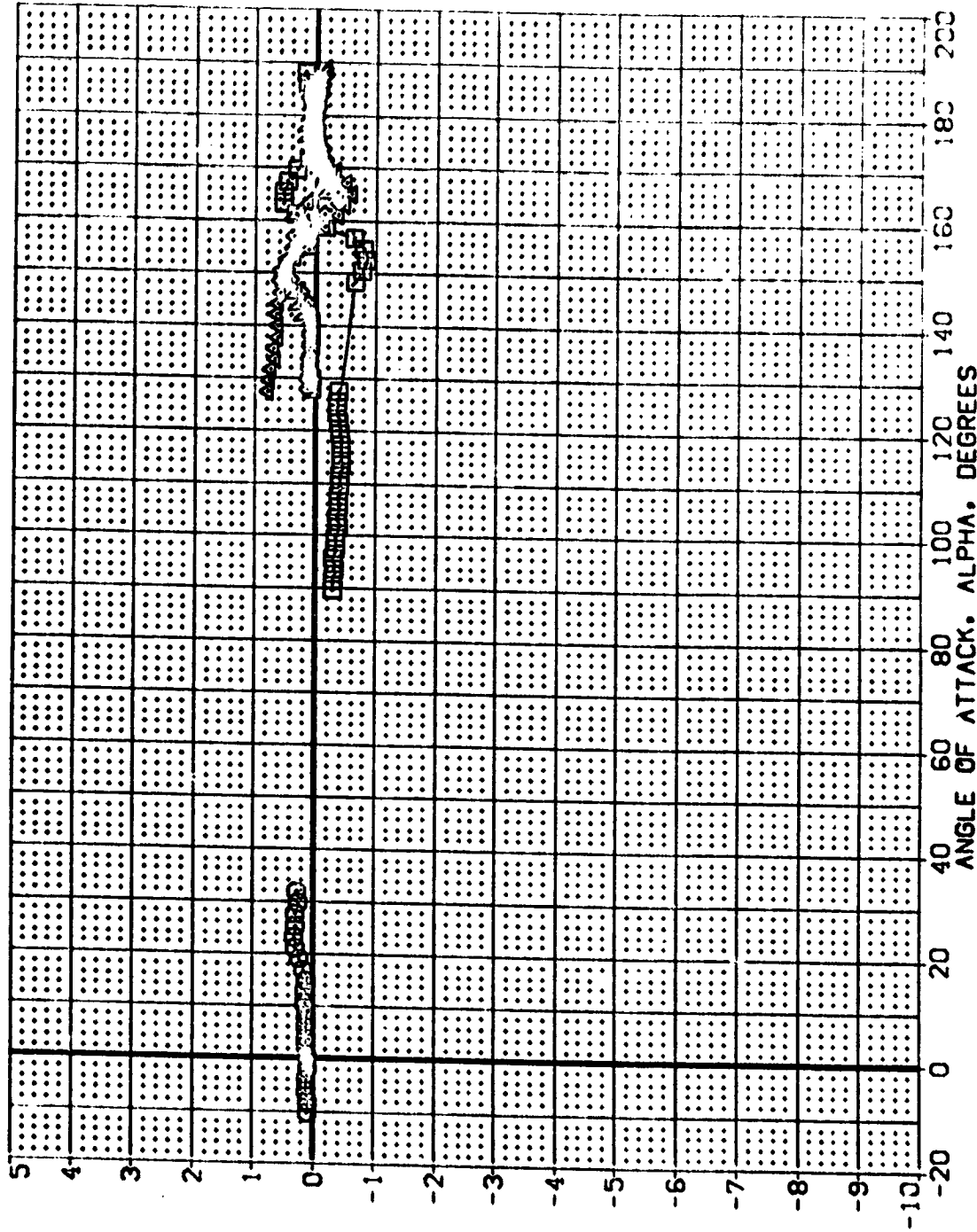
(CJMACH = 1.20

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 (R97A02) X MSFC 587(FA4) TITAN III C SRM (NBETP)
 (R97A19) X MSFC 587(FA4) TITAN III C SRM (NBETP)
 (R97A20) X MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
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 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

REFERENCE INFORMATION
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 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

COJMACH = 1.96

PAGE 106



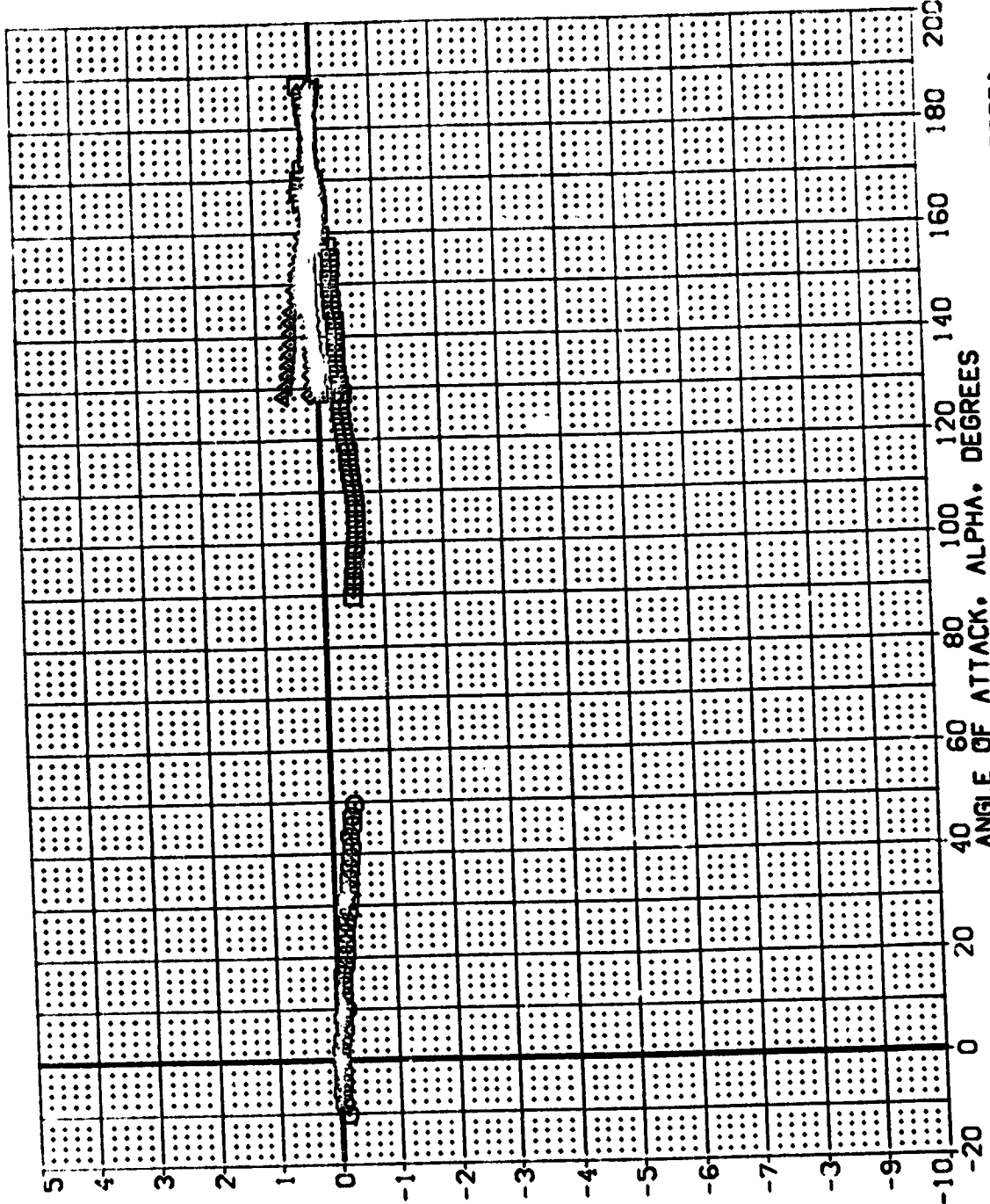
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 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA .000
 PHI .000
 .000
 45.000
 90.000
 135.000

CONFIGURATION DESCRIPTION
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 C 587(EA4) TITAN III C SRM (NBETP)
 C 587(EA4) TITAN III C SRM (NBETP)
 C 587(EA4) TITAN III C SRM (NBETP)
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 [RETA:2]
 [RETA:3]
 [RETA:4]
 [RETA:5]



MISSILE YAWING MOMENT COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

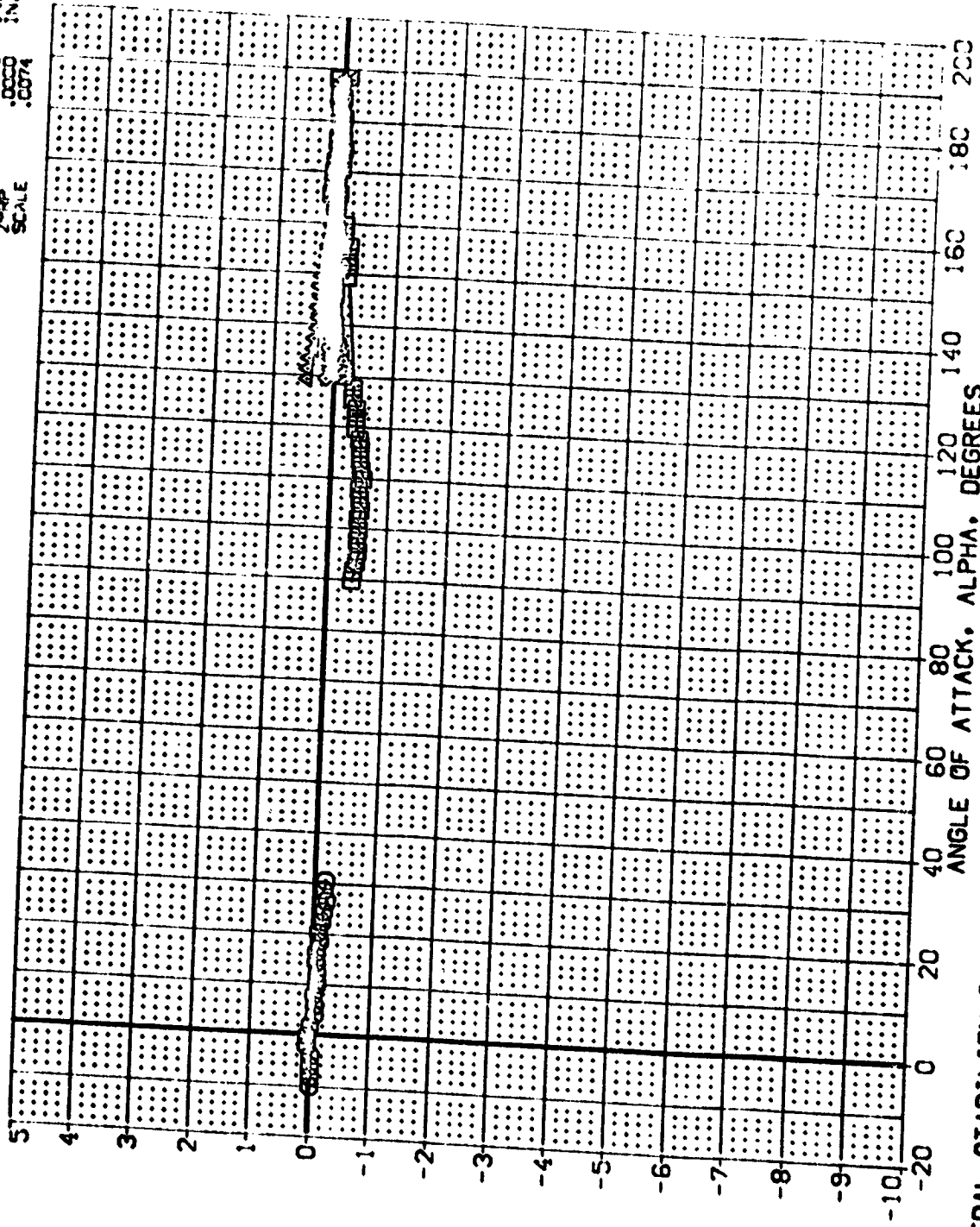
PAGE 107

(E)MACH = 3.48

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 (RST/A02) C MSC 587(FA4) TITAN III C SRH (NBE/TP)
 (RST/A21) C MSC 587(FA4) TITAN III C SRH (NBE/TP)
 (RST/A20) C MSC 587(FA4) TITAN III C SRH (NBE/TP)
 (RST/A19) C MSC 587(FA4) TITAN III C SRH (NBE/TP)

BETA PHI
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 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

REFERENCE INFORMATION
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 XMRP 4.6330 IN: IN
 YMRP .0000 IN: IN
 ZMRP .0000 IN: IN
 SCALE .0074



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE/TP)
 (CF)MACH = 4.96



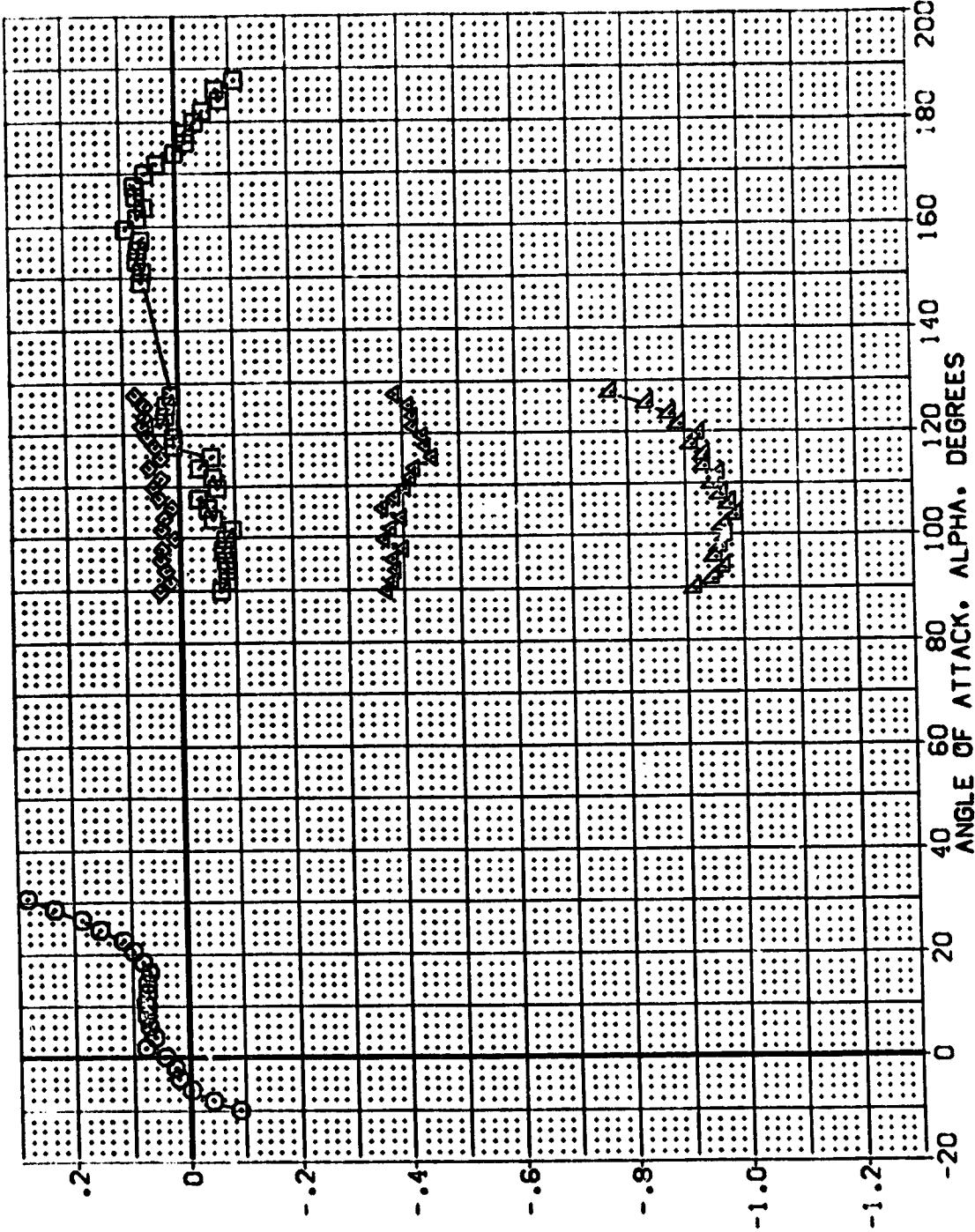
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 :R7A2: }

CONFIGURATION DESCRIPTION
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 MFC 587(FA4) TITAN III C SRM (NBETP)
 MFC 587(FA4) TITAN III C SRM (NBETP)
 MFC 587(FA4) TITAN III C SRM (NBETP)
 MFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
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 .000 .000
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 .000 90.000
 .000 135.000

REFERENCE INFORMATION
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 LREF 9.000
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 SCALE .0074

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



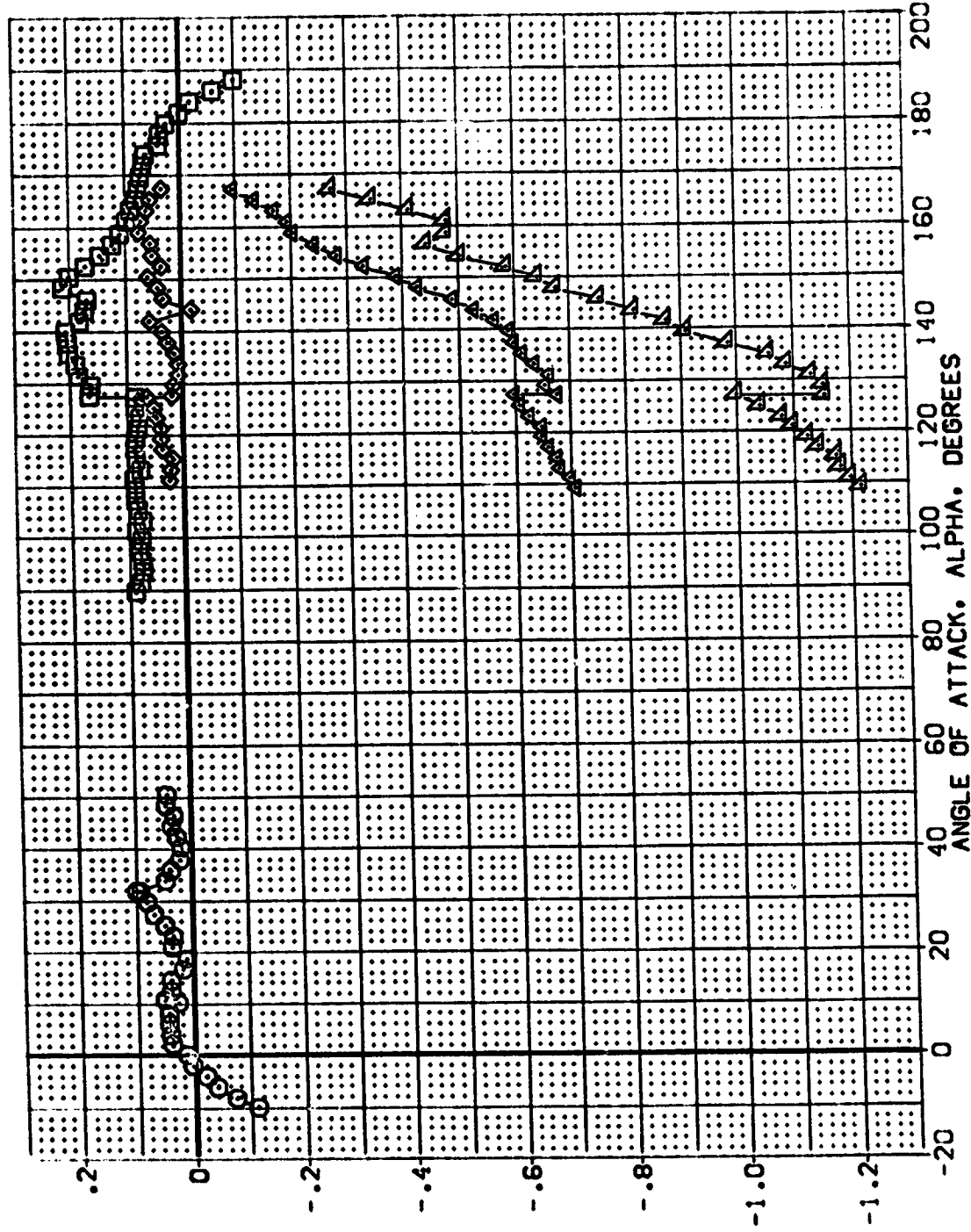
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
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 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

PAGE 111

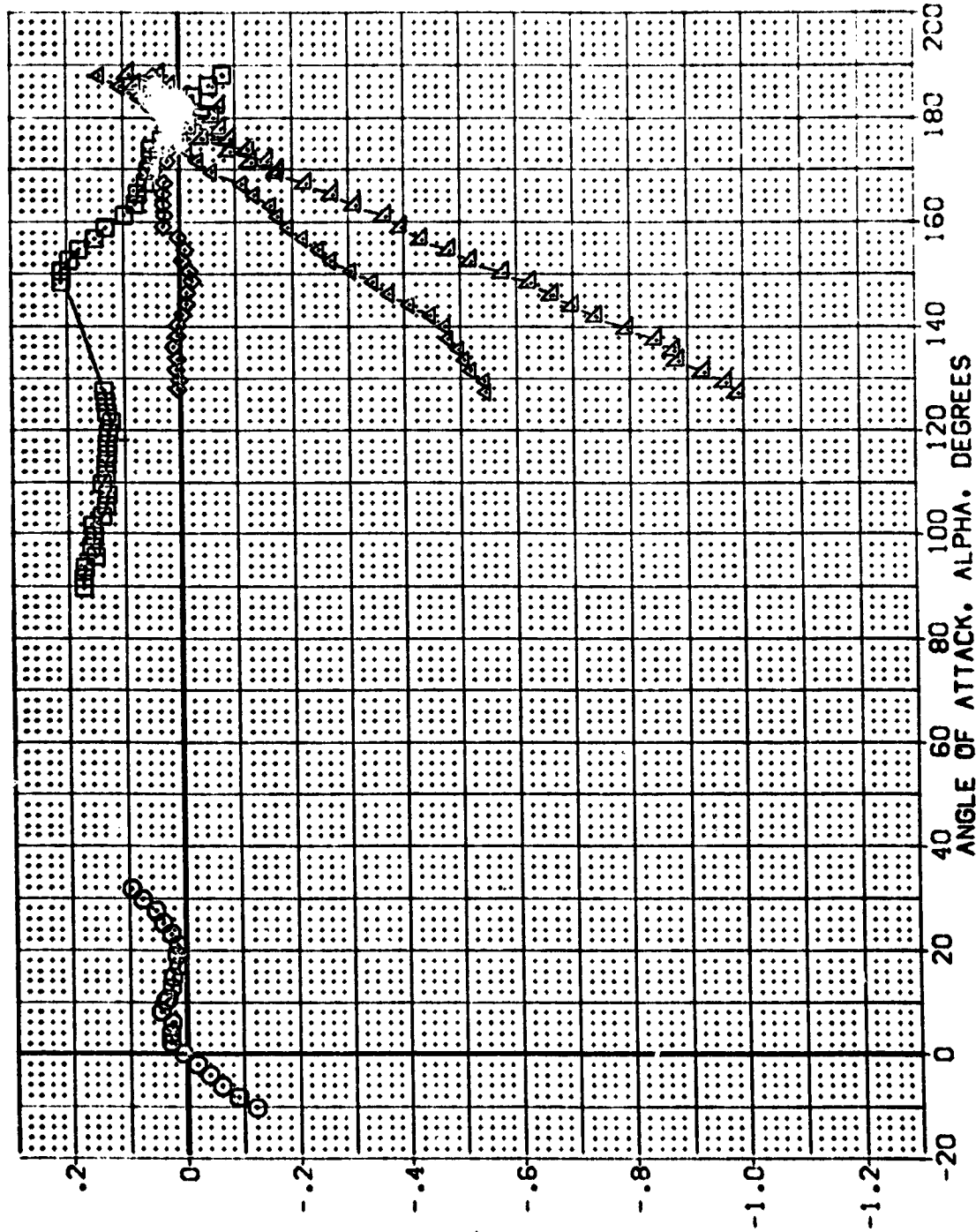
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 ZMRP .0000 IN.
 SCALE .0074

BETA (PI)
 .000 .000
 .000 .000
 .000 45.000
 .000 90.000
 .000 135.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 (R7A02) MSC 587(FM) TITAN III C SRH (NBETP)
 (R7A21) MSC 587(FM) TITAN III C SRH (NBETP)
 (R7A20) MSC 587(FM) TITAN III C SRH (NBETP)
 (R7A19) MSC 587(FM) TITAN III C SRH (NBETP)

ROLLING MOMENT COEFFICIENT, CRL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(0)MACH = 1.96

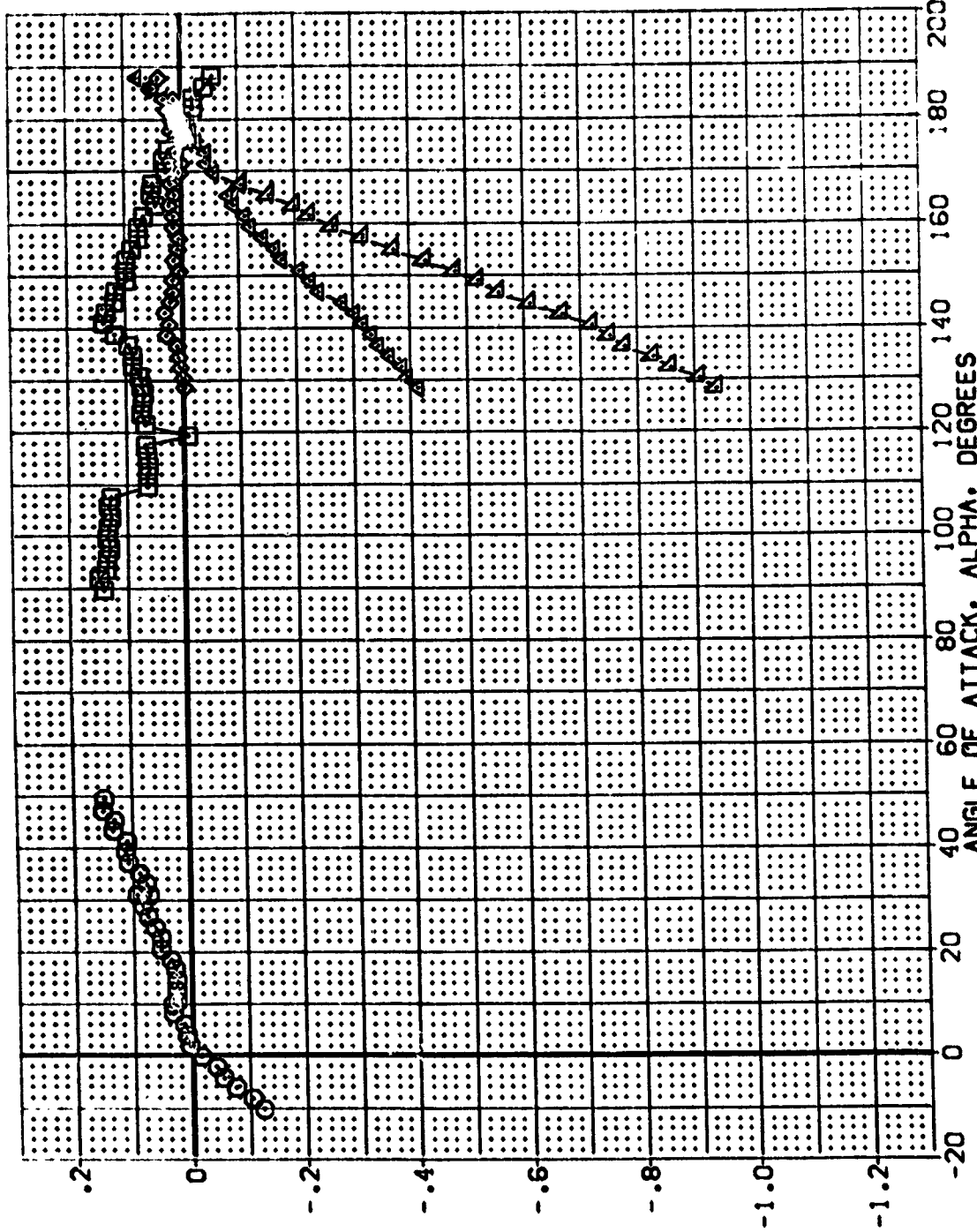


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 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

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 .000 45.000
 .000 90.000
 .000 180.000

DATA SET SYMBO- CONFIGURATION DESCRIPTION
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 :R7A04] C S87(FA4) TITAN III C SRM (NBETP)
 :R7A05] C S87(FA4) TITAN III C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48

PAGE 113

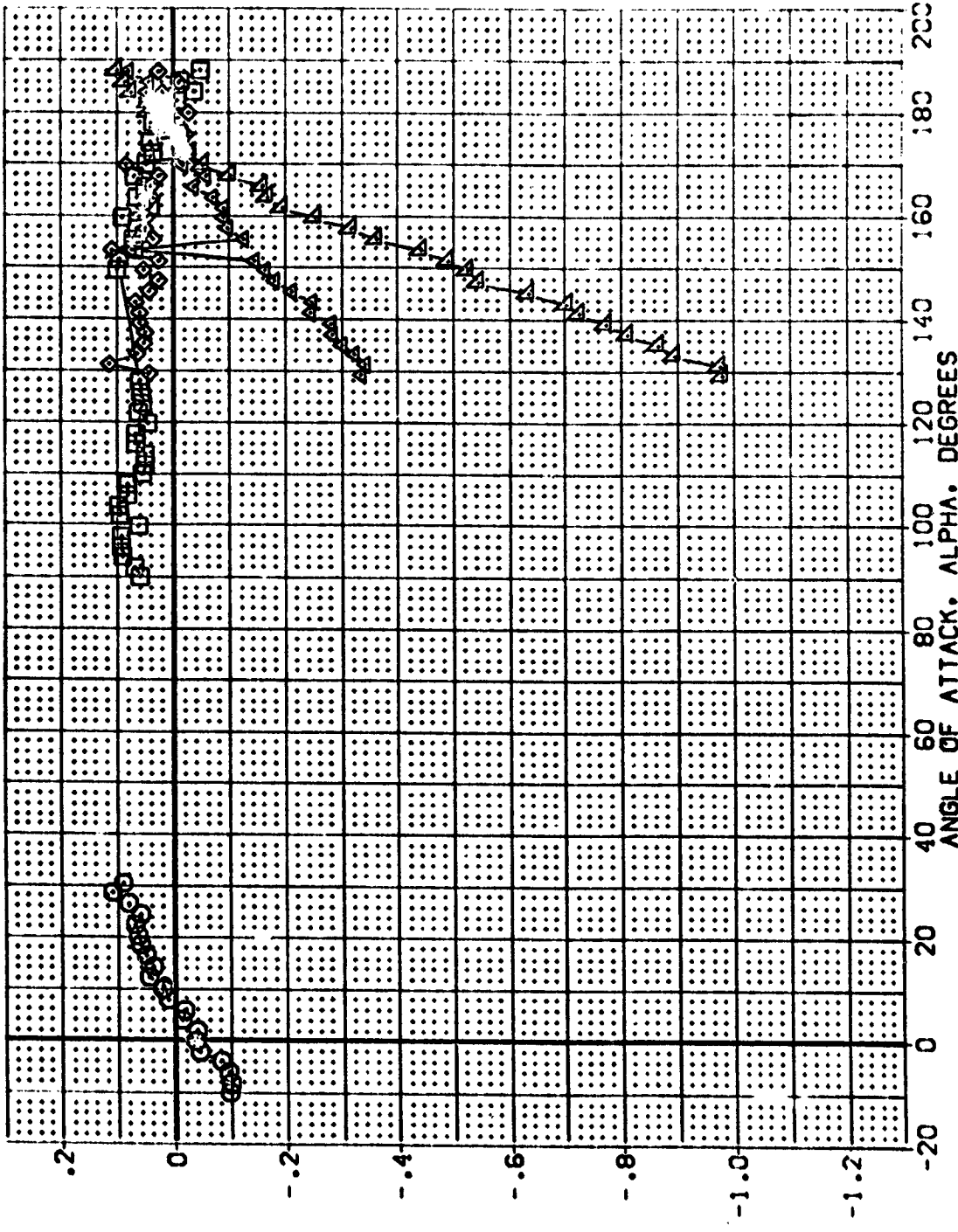
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 : R57A(2)
 : R57A(3)
 : R57A(4)
 : R57A(5)

CONFIGURATION DESCRIPTION
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 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)
 MSC 587(FA4) TITAN III C SRM (NBETP)

BETA PHJ
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 .000 90.000
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 BREF 9.000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(CF)MACH = 4.96

PAGE 114



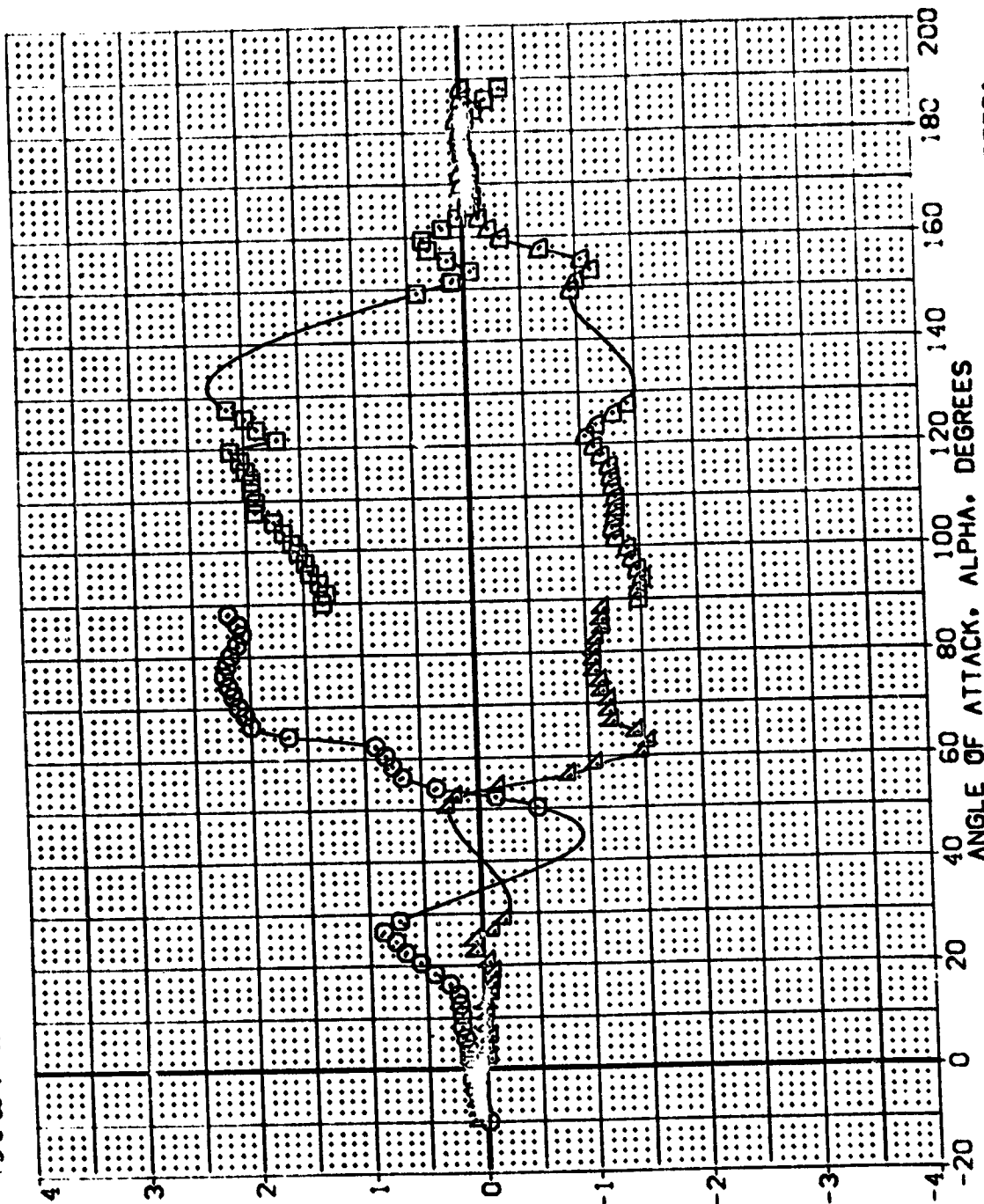
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 C57A18 C 587(F44) TITAN III C SRM (NBETP)
 C57A19 DATA NOT AVAILABLE
 C57A20 DATA NOT AVAILABLE
 C57A21 C 587(F44) TITAN III C SRM (NBETP)
 C57A22 C 587(F44) TITAN III C SRM (NBETP)
 C57A23 C 587(F44) TITAN III C SRM (NBETP)
 C57A24 C 587(F44) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

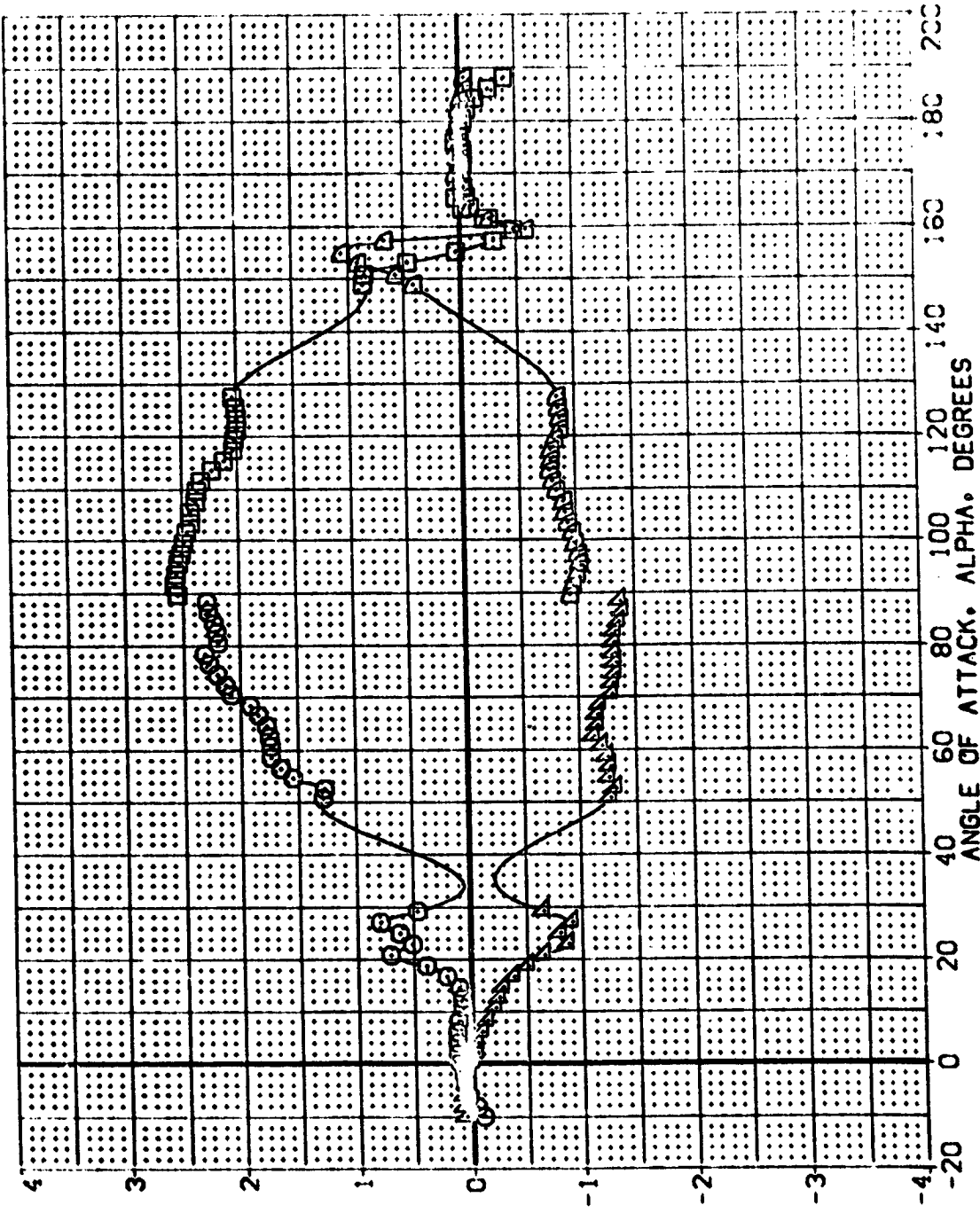


LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REFERENCE INFORMATION
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 BREF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

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 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMB. CONFIGURATION DESCRIPTION
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 :R97A:5) DATA NOT AVAILABLE
 :R97A:6) DATA NOT AVAILABLE
 :R97A:3) NSFC 587(FA4) TITAN III C SRM (NBETP)
 :R97A:4) NSFC 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MAC = .90

PAGE 1:5



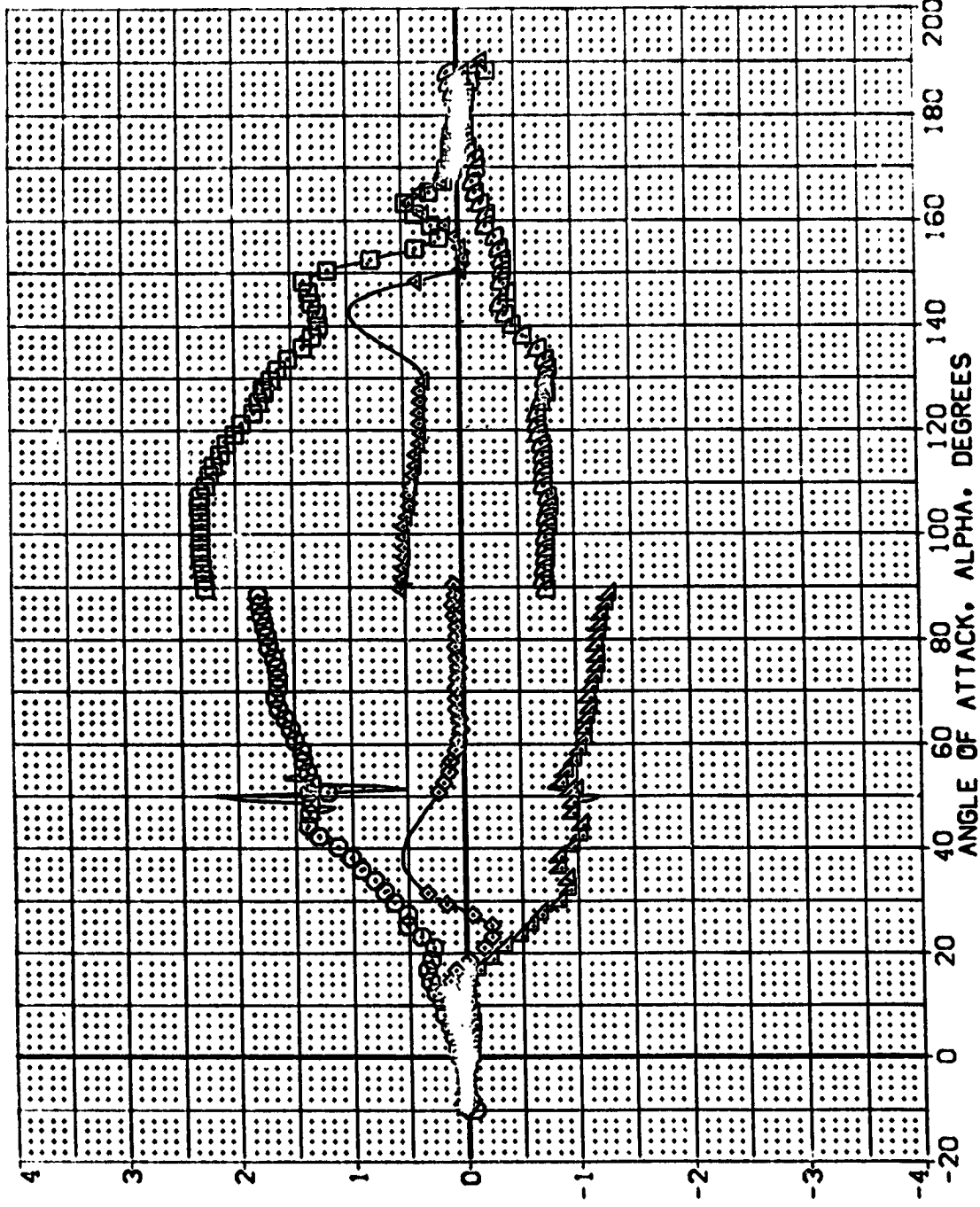
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 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

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 .000 202.500
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 .000 275.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 :R57A:19] MS C 587(FA4) TITAN III C SRM (NBETP)
 :R57A:20] MS C 587(FA4) TITAN III C SRM (NBETP)
 :R57A:21] MS C 587(FA4) TITAN III C SRM (NBETP)
 :R57A:22] MS C 587(FA4) TITAN III C SRM (NBETP)
 :R57A:23] MS C 587(FA4) TITAN III C SRM (NBETP)
 :R57A:24] MS C 587(FA4) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.19

DATA SET SYMB. CONFIGURATION DESCRIPTION

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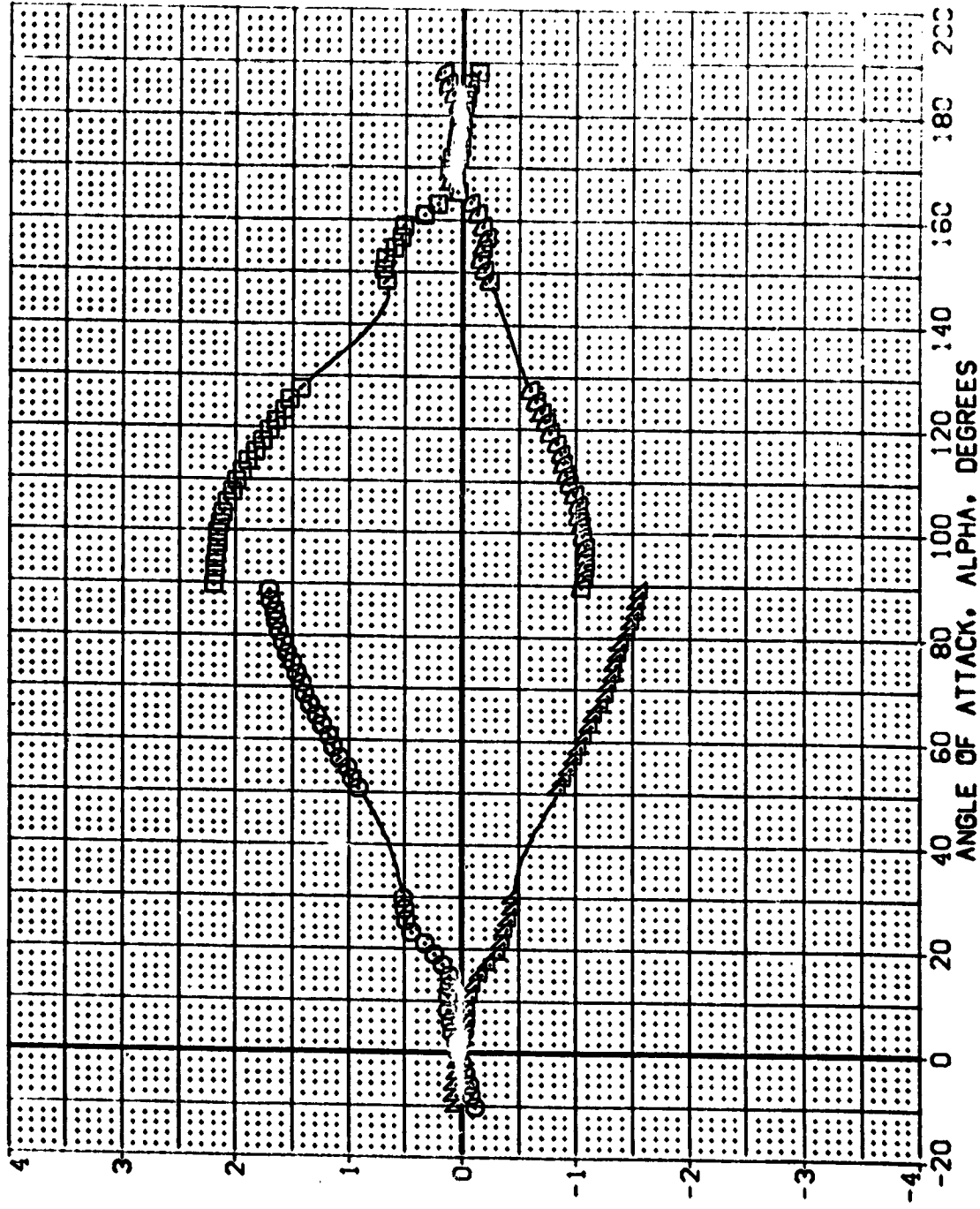
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REFERENCE INFORMATION

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 LREF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE1P)

(O)MACH = 1.96

PAGE 1:8



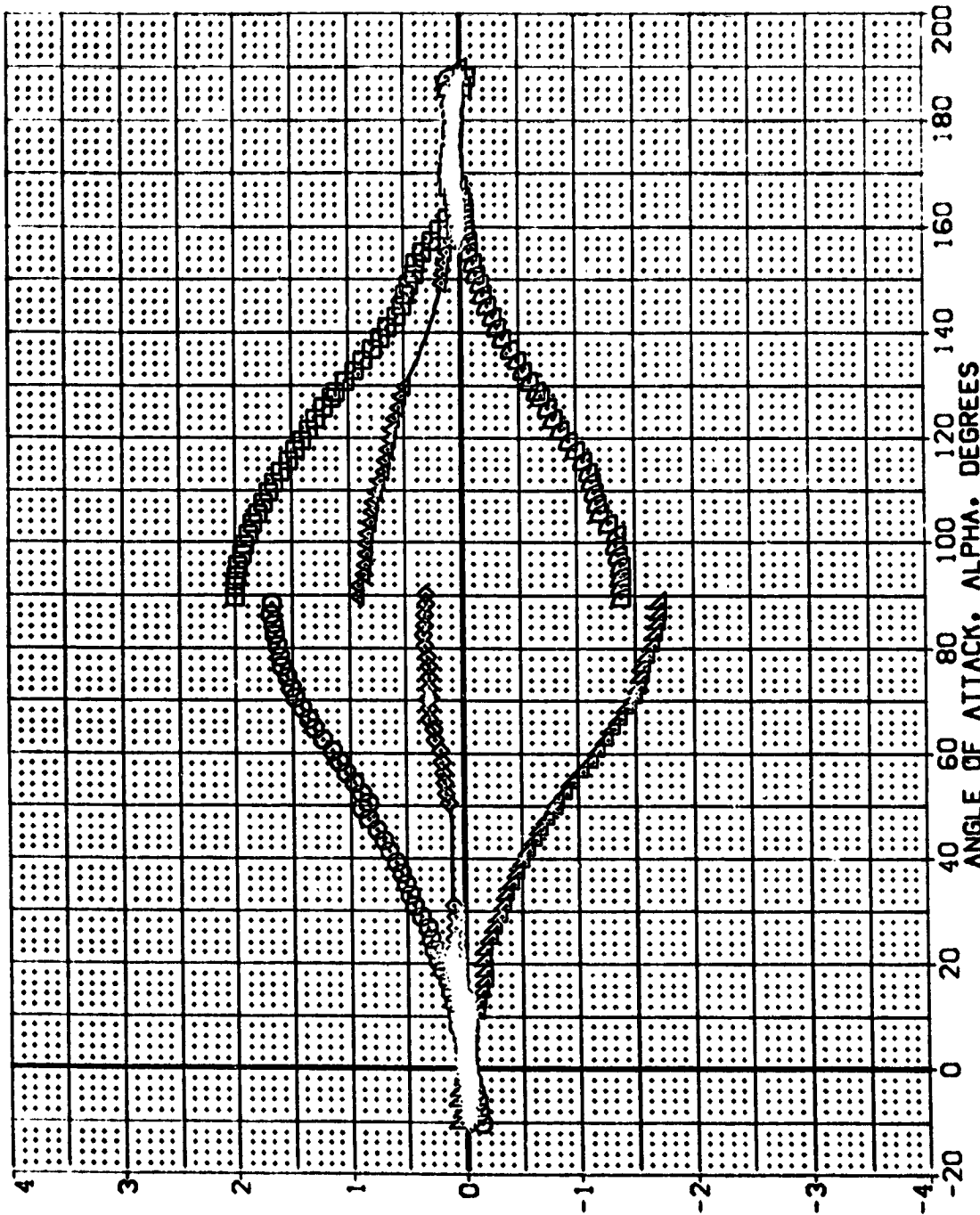
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 Z-PROP .0000
 SCALE .0074

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 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

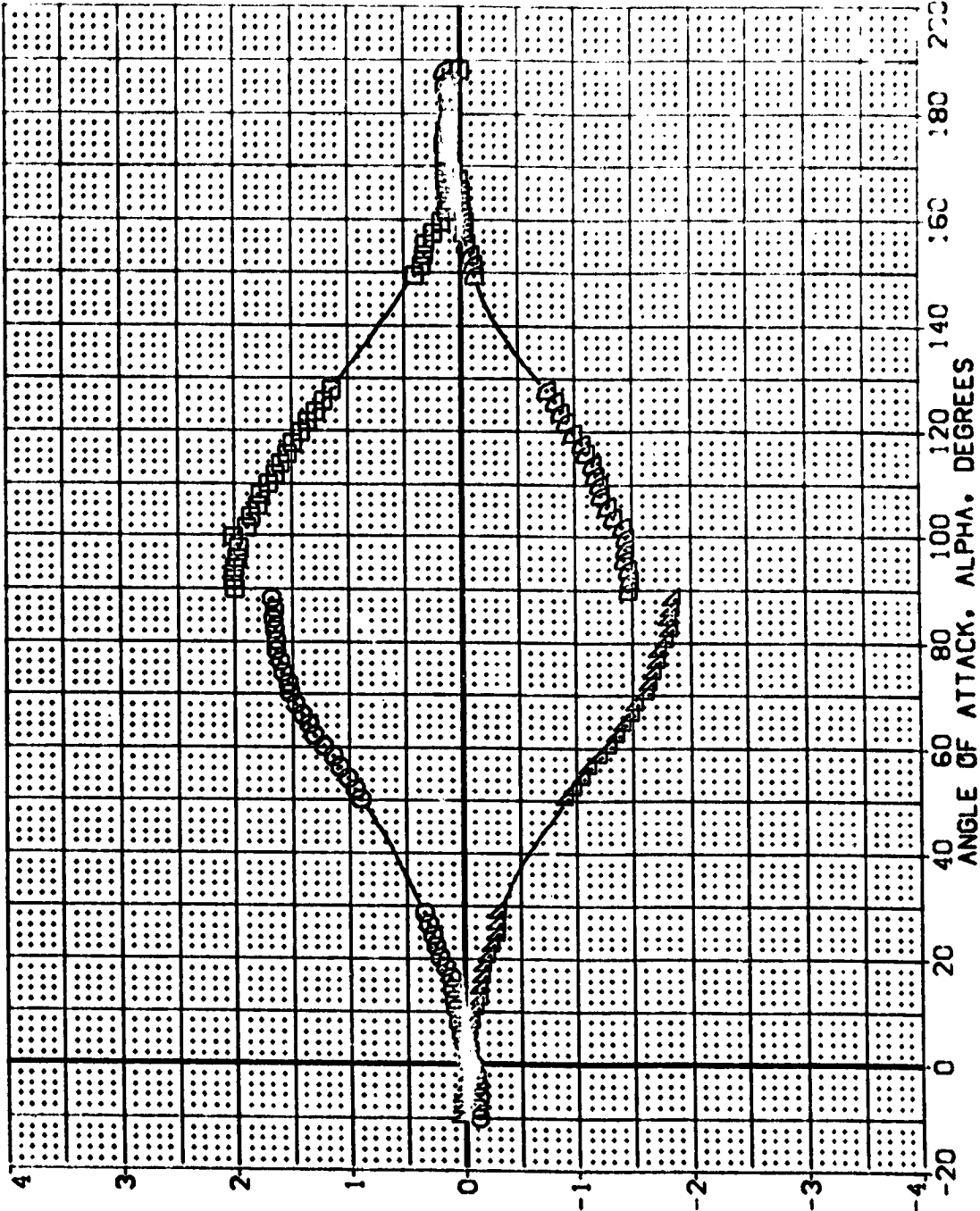
(C)MACH = 3.48

PAGE: 9

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 (R57A14) MSFC 587(FA4) TITAN III C SRM (NBETP)

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 .000 202.500
 .000 202.500
 .000 275.000
 .000 275.000

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 LREF 5000 IN.
 BREF 5000 IN.
 XMRP 4.6333 IN.
 YMRP 0.000 IN.
 ZMRP 0.000 IN.
 SCALE 0.074



MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(CF)MACH = 4.96

PAGE 120



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

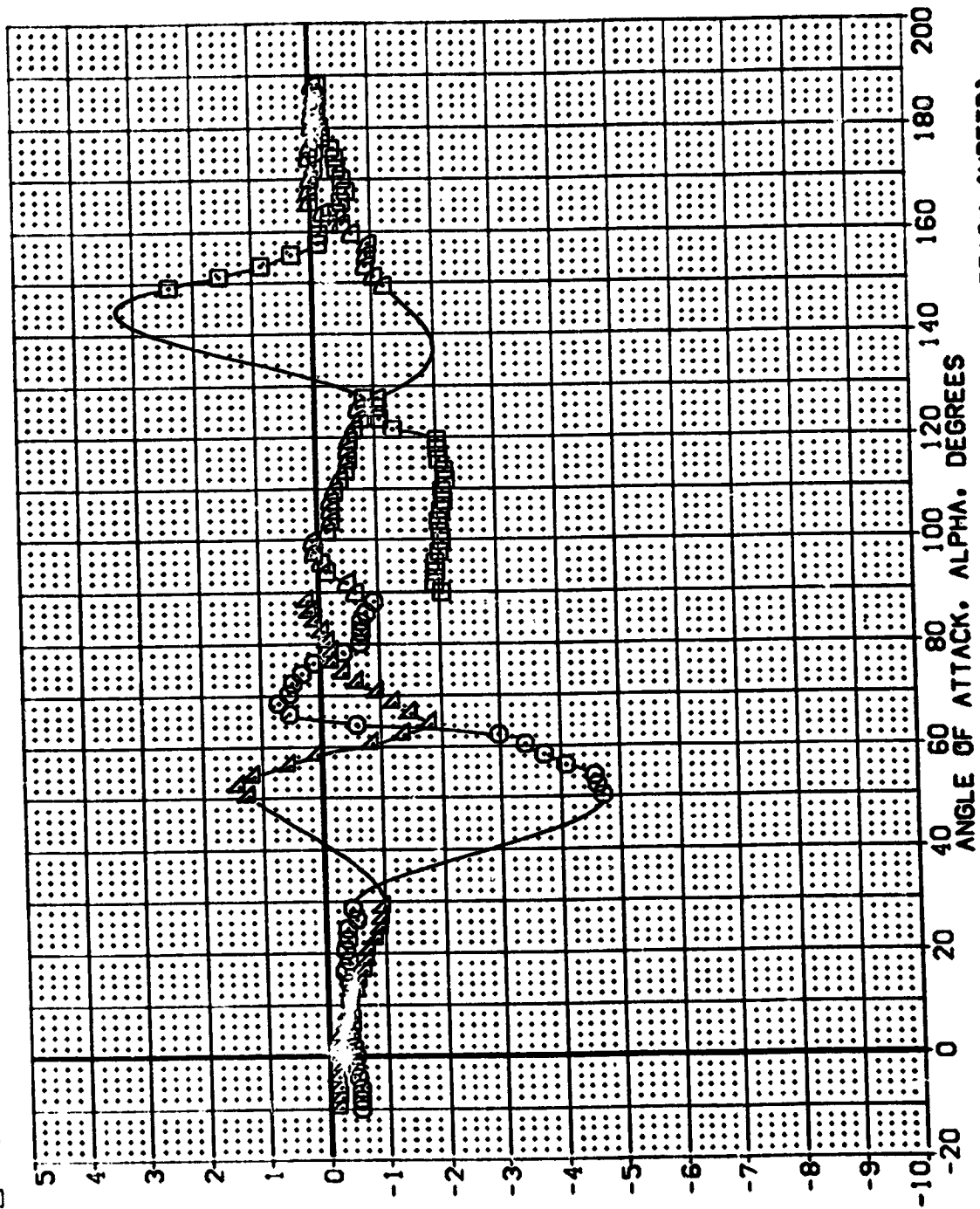
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 BREF .9000
 XMRP 4.6330
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 ZMRP .0000
 SCALE .0074

BETA PH1
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION
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 MS C 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MS C 587(FA4) TITAN III C SRM (NBETP)
 MS C 587(FA4) TITAN III C SRM (NBETP)

DATA SET SYMBOL
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 RST7A 8
 RST7A 9
 RST7A 10
 RST7A 11

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YNM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

DATA SET SYMBL. CONFIGURATION DESCRIPTION

01 MSFC 587(FA4) TITAN III C SRM (NBETP)
 02 MSFC 587(FA4) TITAN III C SRM (NBETP)
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 06 MSFC 587(FA4) TITAN III C SRM (NBETP)

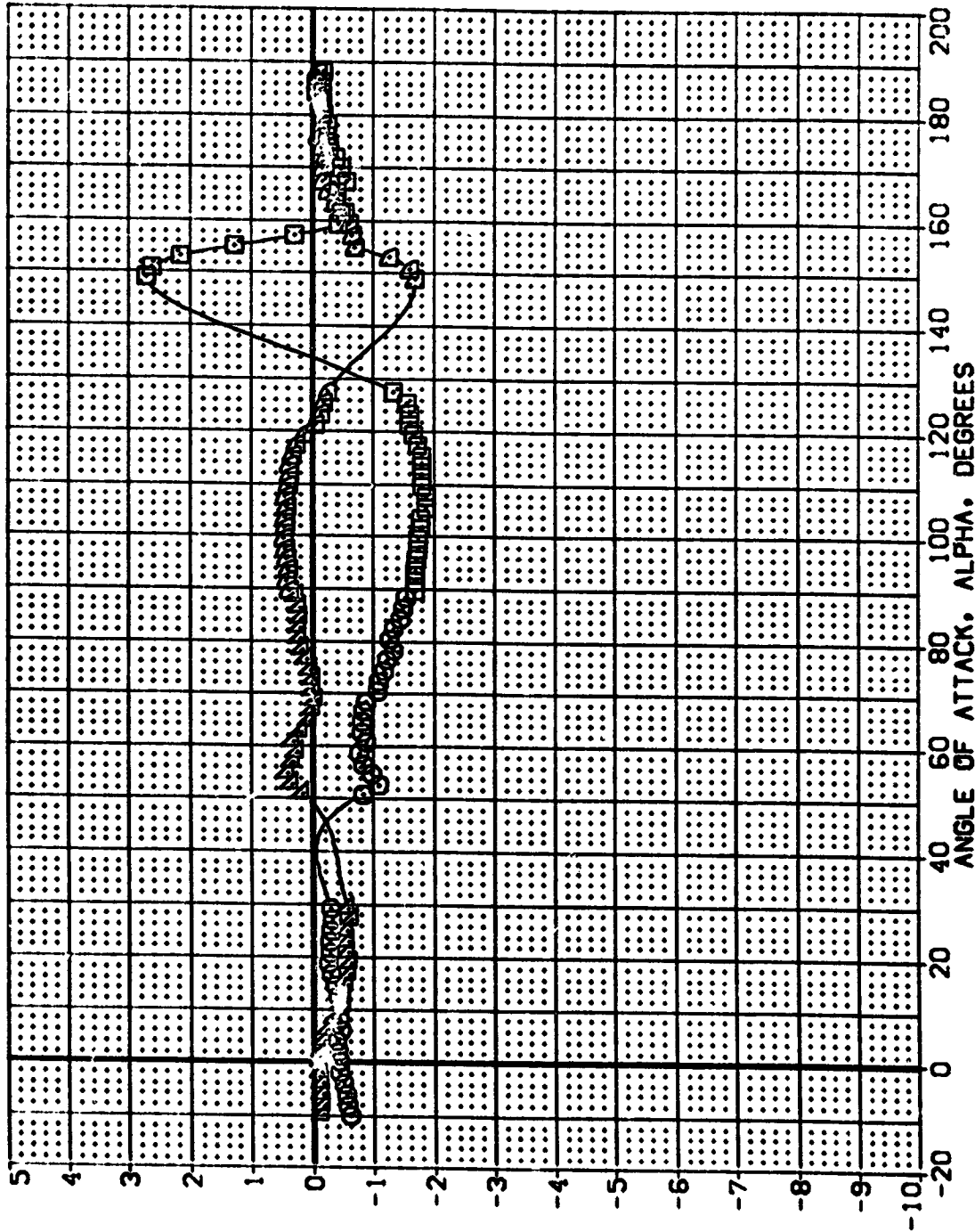
BETA PHI

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 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION

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 LRPF .9000 IN.
 BRPF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .50

PAGE 172

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

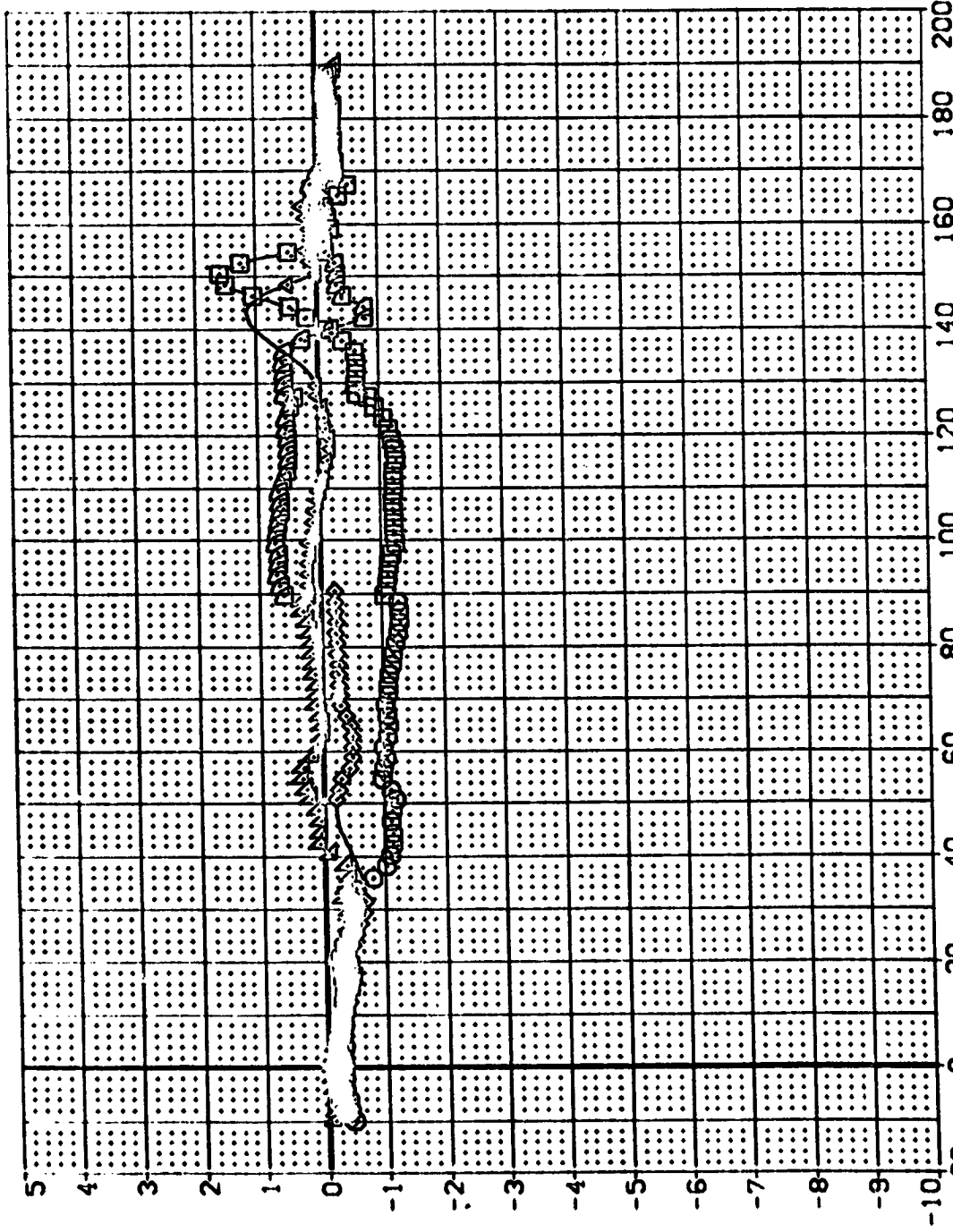
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LREF	.9000		
BREF	.9000		
XMRP	4.6330		
YMRP	.0000		
ZMRP	.0000		
SCALE	.0074		

BETA PHI

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.000	180.000
.000	202.500
.000	202.500
.000	225.000
.000	225.000

DATA SET SYMB.	CONFIGURATION DESCRIPTION	SRM (NBETP)
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007A 8	TITAN	C
007A 9	TITAN	C
007A 10	TITAN	C
007A 11	TITAN	C
007A 12	TITAN	C
007A 13	TITAN	C
007A 14	TITAN	C



MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

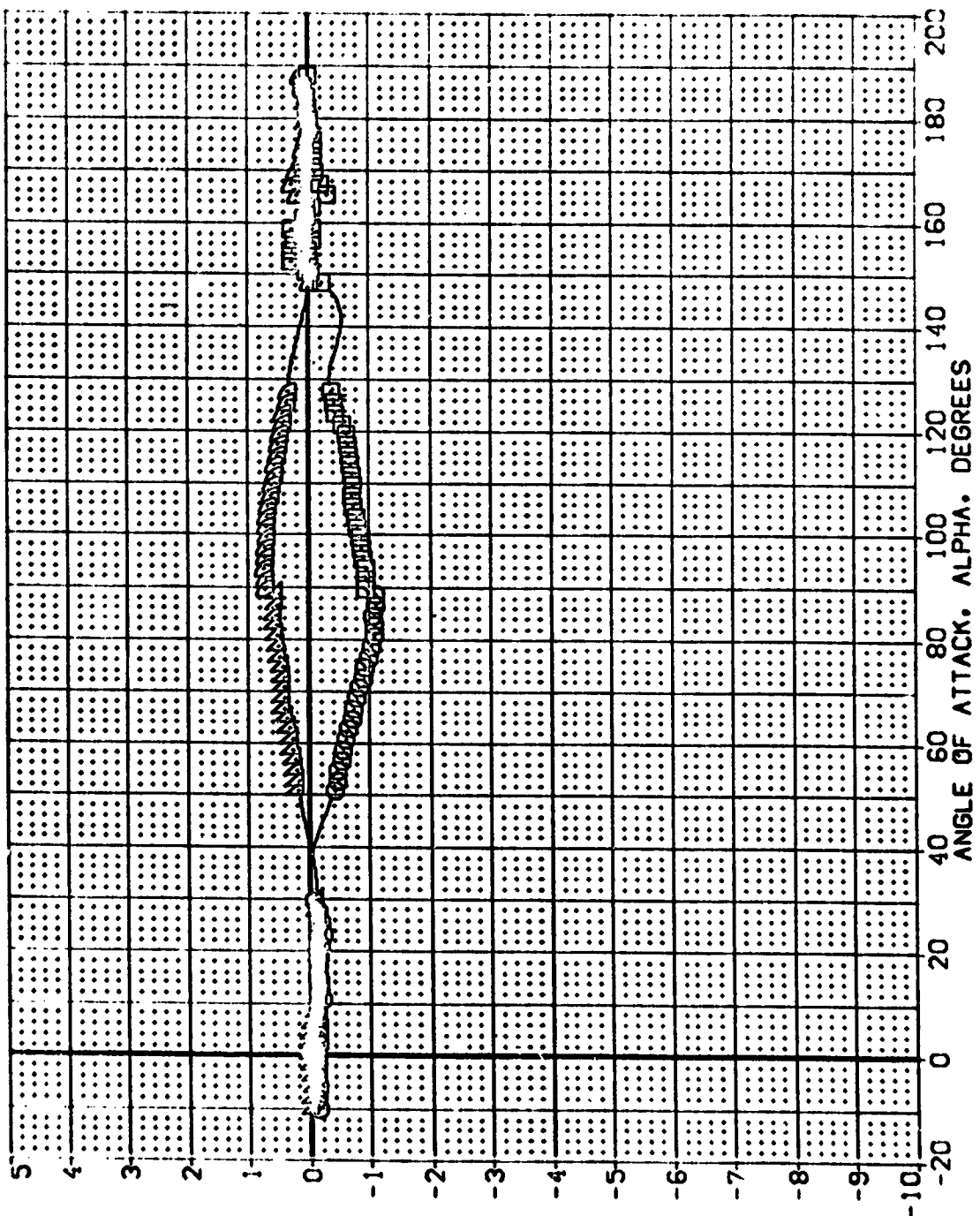
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

DATA SET SYMBOL: 00074
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 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA: .000
 PHI: 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION:
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 LREF: .9000 IN: IN
 BREF: .9000 IN: IN
 XMRP: 4.6330 IN: IN
 YMRP: .0000 IN: IN
 ZMRP: .0000 IN: IN
 SCALE: .0074

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}



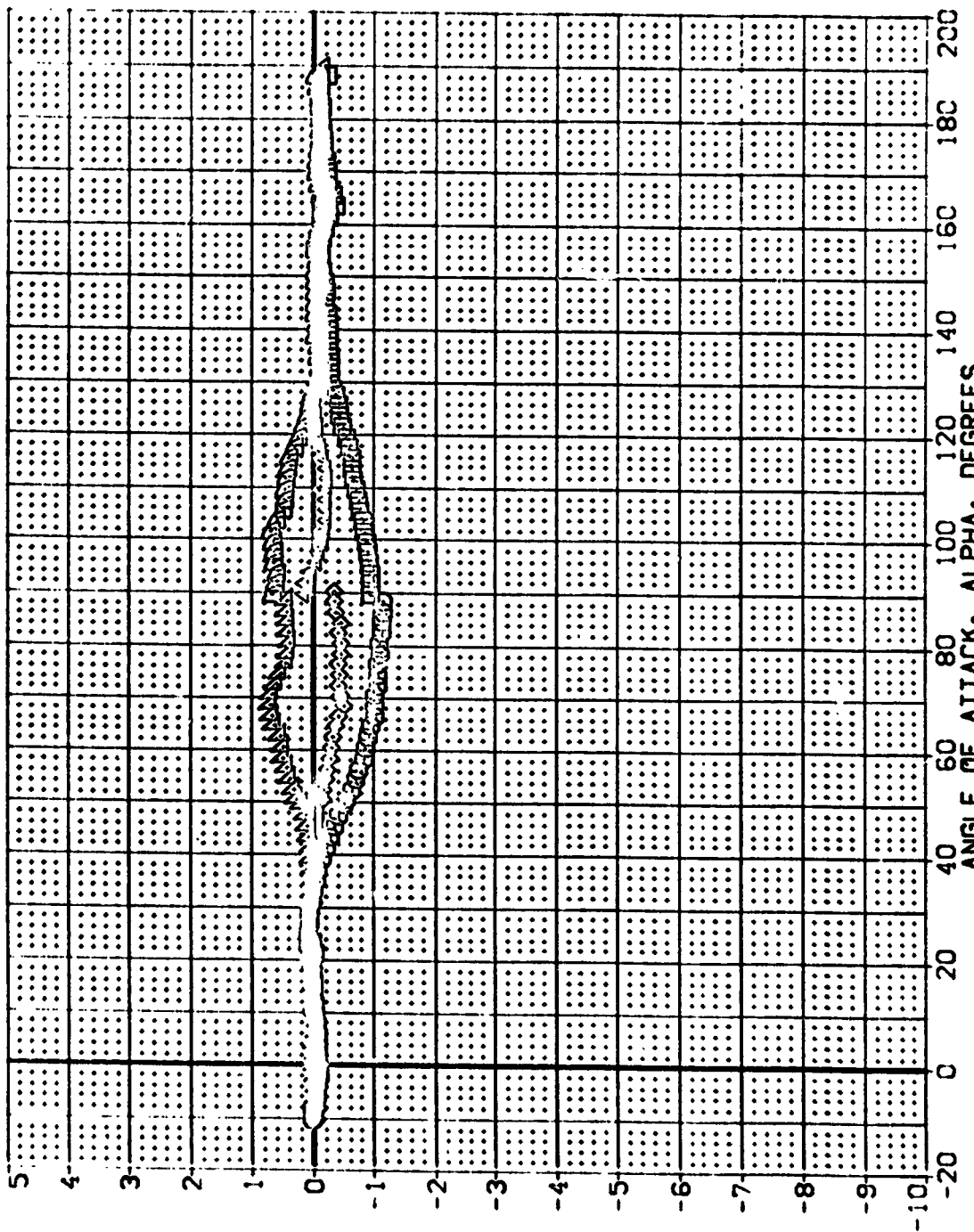
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 LREF .5000
 BREF .5000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SYMBO. CONFIGURATION DESCRIPTION
 MS C 587(F44) TITAN C SRM (NBETP)
 MS C 587(F44) TITAN C SRM (NBETP)
 MS C 587(F44) TITAN C SRM (NBETP)
 MS C 587(F44) TITAN C SRM (NBETP)
 MS C 587(F44) TITAN C SRM (NBETP)
 MS C 587(F44) TITAN C SRM (NBETP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

CEJMACH = 3.48

PAGE 175

DATA SET SYMBOL CONFIGURATION DESCRIPTION

BETA PHI

REFERENCE INFORMATION

SREF .6360 SQ. IN

LREF .9000

BREF .9000

XMRP 4.6330

YMRP .0000

ZMRP .0000

SCALE .0374

MS C 587(FA4) TITAN III C SRM (NBETP)

MS C 587(FA4) TITAN III C SRM (NBETP)

DATA NOT AVAILABLE

DATA NOT AVAILABLE

MS C 587(FA4) TITAN III C SRM (NBETP)

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MS C 587(FA4) TITAN III C SRM (NBETP)

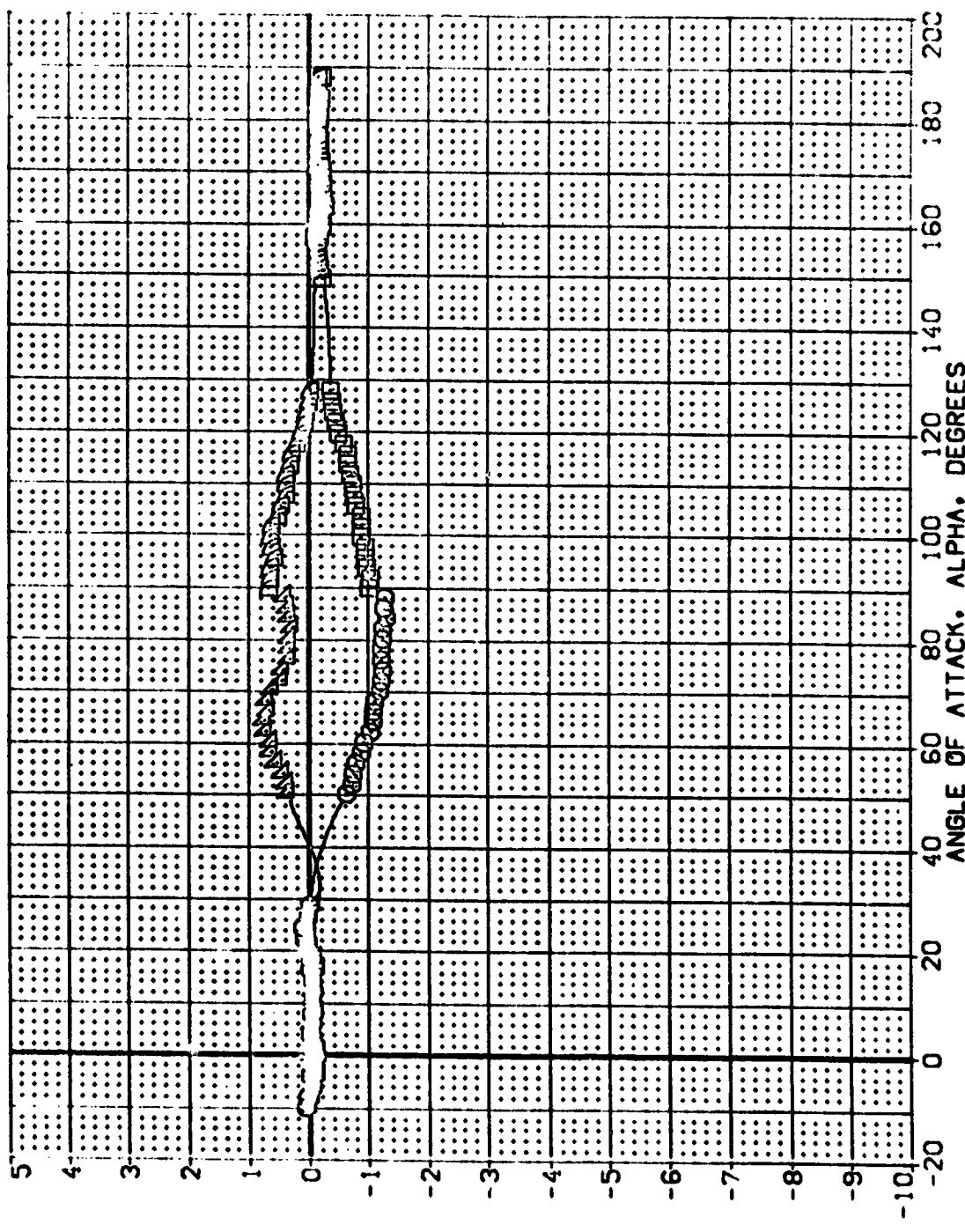
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DATA NOT AVAILABLE

DATA NOT AVAILABLE

MS C 587(FA4) TITAN III C SRM (NBETP)

MS C 587(FA4) TITAN III C SRM (NBETP)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

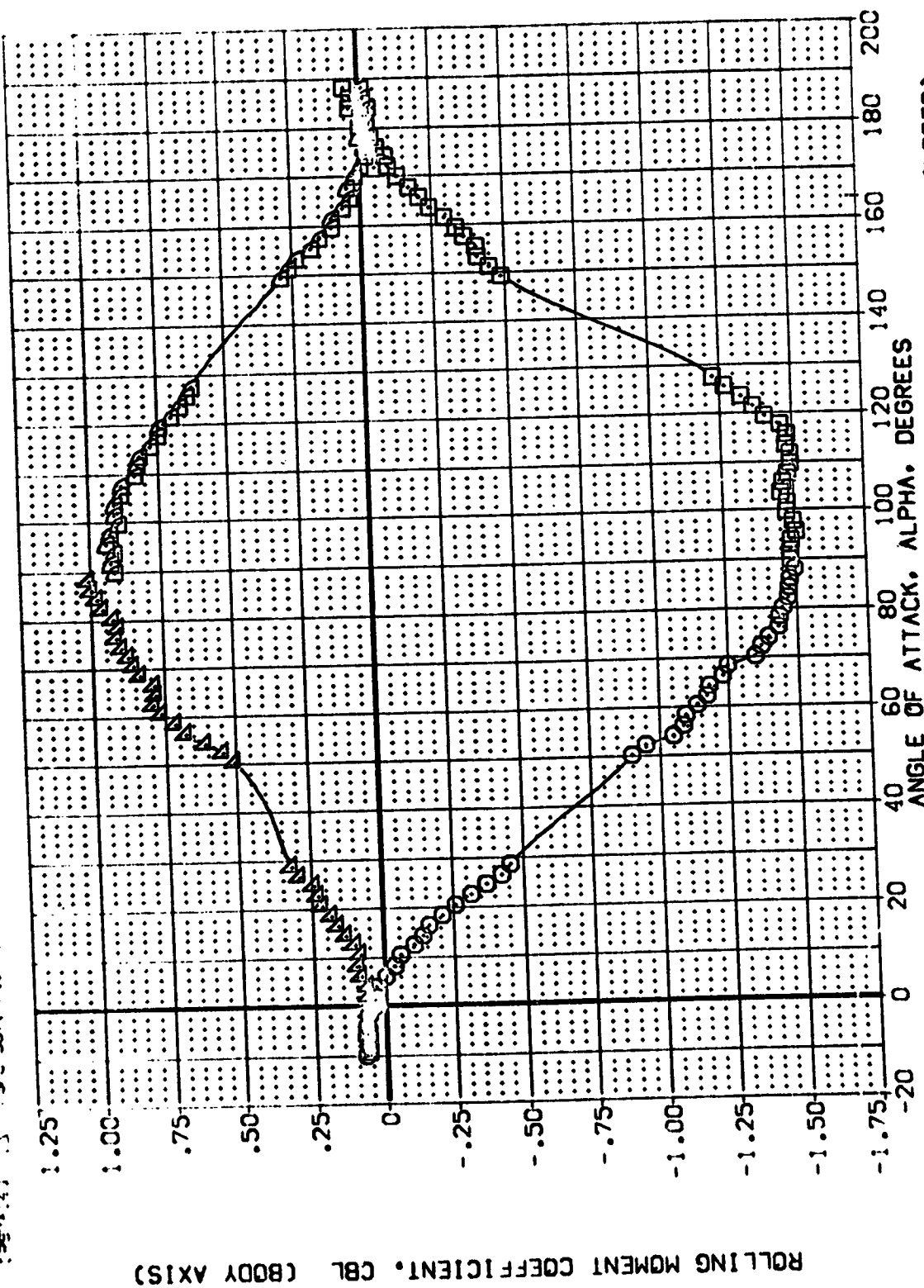
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 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0374

BETA P=1
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

CONFIGURATION DESCRIPTION
 C 587(FAS) TITAN III C SRM (NBETP)
 C 587(FAS) TITAN III C SRM (NBETP)
 C 587(FAS) TITAN III C SRM (NBETP)
 C 587(FAS) TITAN III C SRM (NBETP)
 C 587(FAS) TITAN III C SRM (NBETP)
 C 587(FAS) TITAN III C SRM (NBETP)

DATA S SYMBO
 0
 2
 2
 2



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REFERENCE INFORMATION

SREF	.6360	SG	IN
LREF	.9000	IN	IN
BREF	.9000	IN	IN
XMRP	4.6330	IN	IN
YMRP	.0000	IN	IN
ZMRP	.0000	IN	IN
SCALE	.0074		

BETA PHI

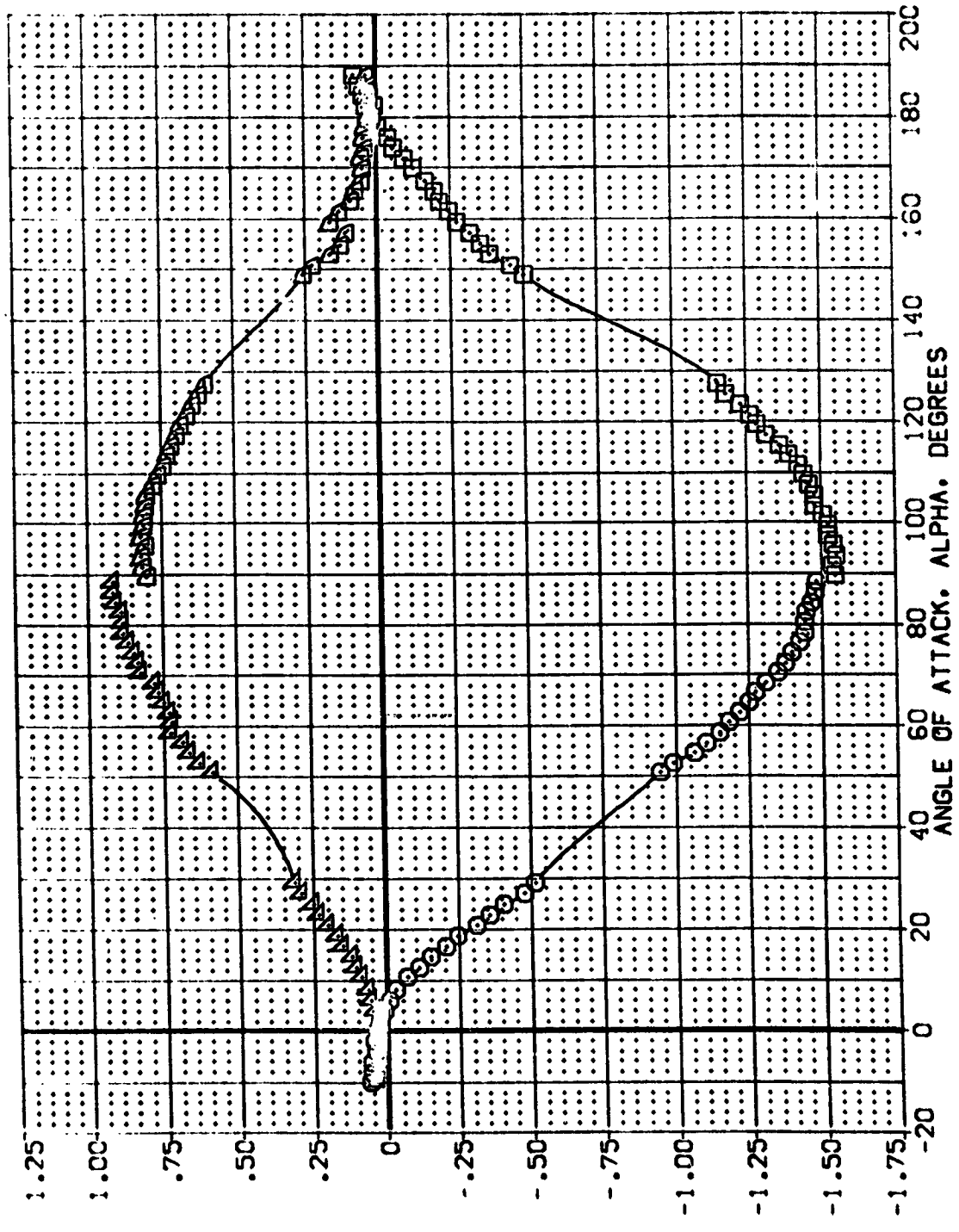
.000	180.000
.000	180.000
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.000	207.500
.000	225.000
.000	225.000

CONFIGURATION DESCRIPTION

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MSFC 587(FA4)	TITAN		C SRM (NBETP)
MSFC 587(FA4)	TITAN		C SRM (NBETP)
DATA NOT AVAILABLE			
DATA NOT AVAILABLE			
MSFC 587(FA4)	TITAN		C SRM (NBETP)
MSFC 587(FA4)	TITAN		C SRM (NBETP)

DATA SET SYMBOL

0	1	2	3	4
0	1	2	3	4
0	1	2	3	4
0	1	2	3	4
0	1	2	3	4



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

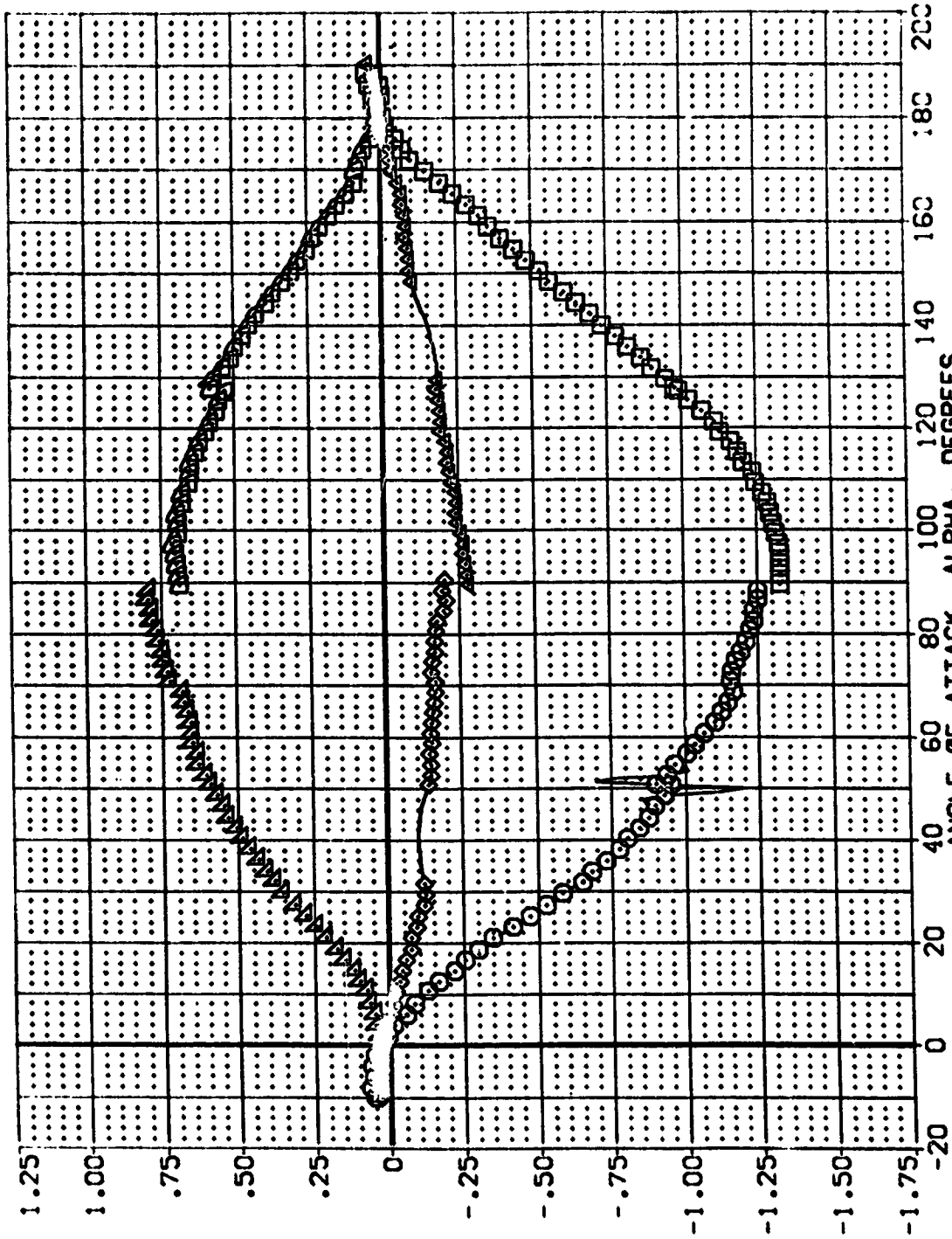
REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 LREF .9000 IN.
 BREF .9000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
 .000 180.000
 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (P97A17) C SRM (NBETP)
 (P97A18) C SRM (NBETP)
 (P97A15) C SRM (NBETP)
 (P97A16) C SRM (NBETP)
 (P97A13) C SRM (NBETP)
 (P97A14) C SRM (NBETP)

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



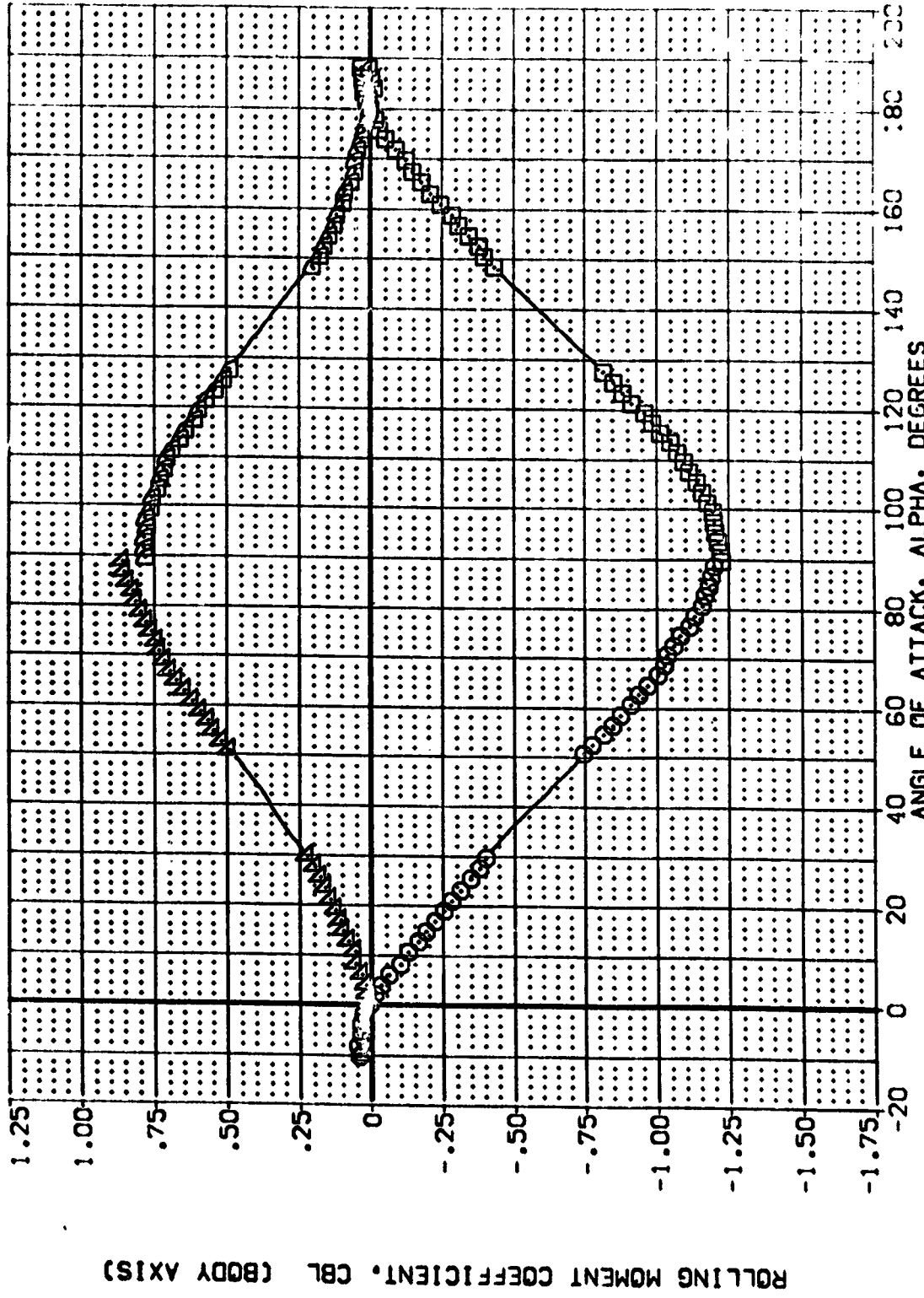
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.19

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 :R57A18) MS C 587(F44) TITAN III C SRM (NBE1P)
 :R57A15) DATA NOT AVAILABLE
 :R57A16) DATA NOT AVAILABLE
 :R57A13) MS C 587(F44) TITAN III C SRM (NBE1P)
 :R57A14) MS C 587(F44) TITAN III C SRM (NBE1P)

BETA PH1
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 .000 180.000
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
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 LRFC .5000 IN.
 BRFC .5000 IN.
 XMRP 1.6300 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE1P)

(COM)MACH = 1.96

PAGE : 30

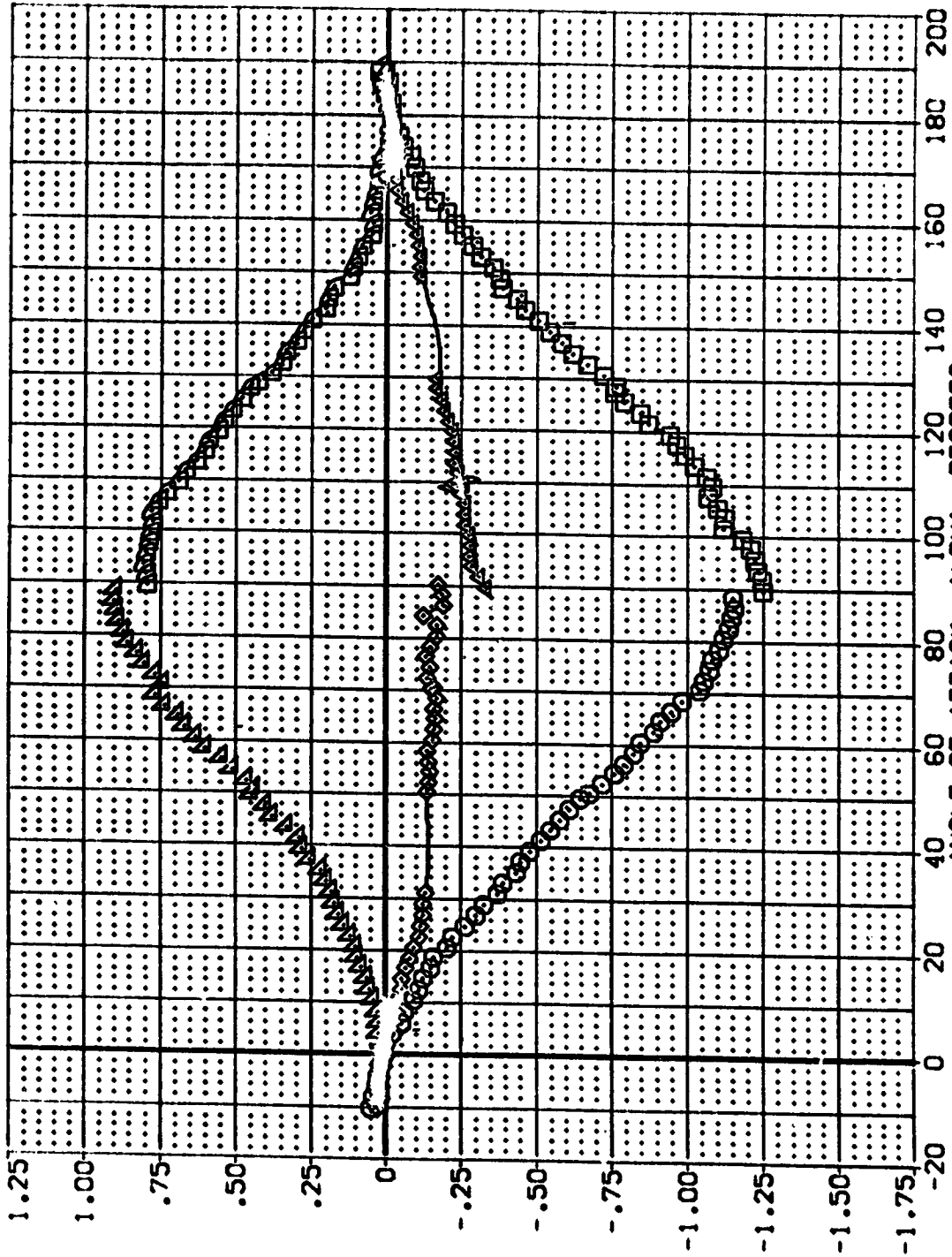


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 BREF 5.000
 XMRP 4.6300
 YMRP 0.0000
 ZMRP 0.0000
 SCALE .0074

BETA PHI
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (R97A:8) C SRM (NBETP)
 (R97A:5) C SRM (NBETP)
 (R97A:3) C SRM (NBETP)
 (R97A:4) C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

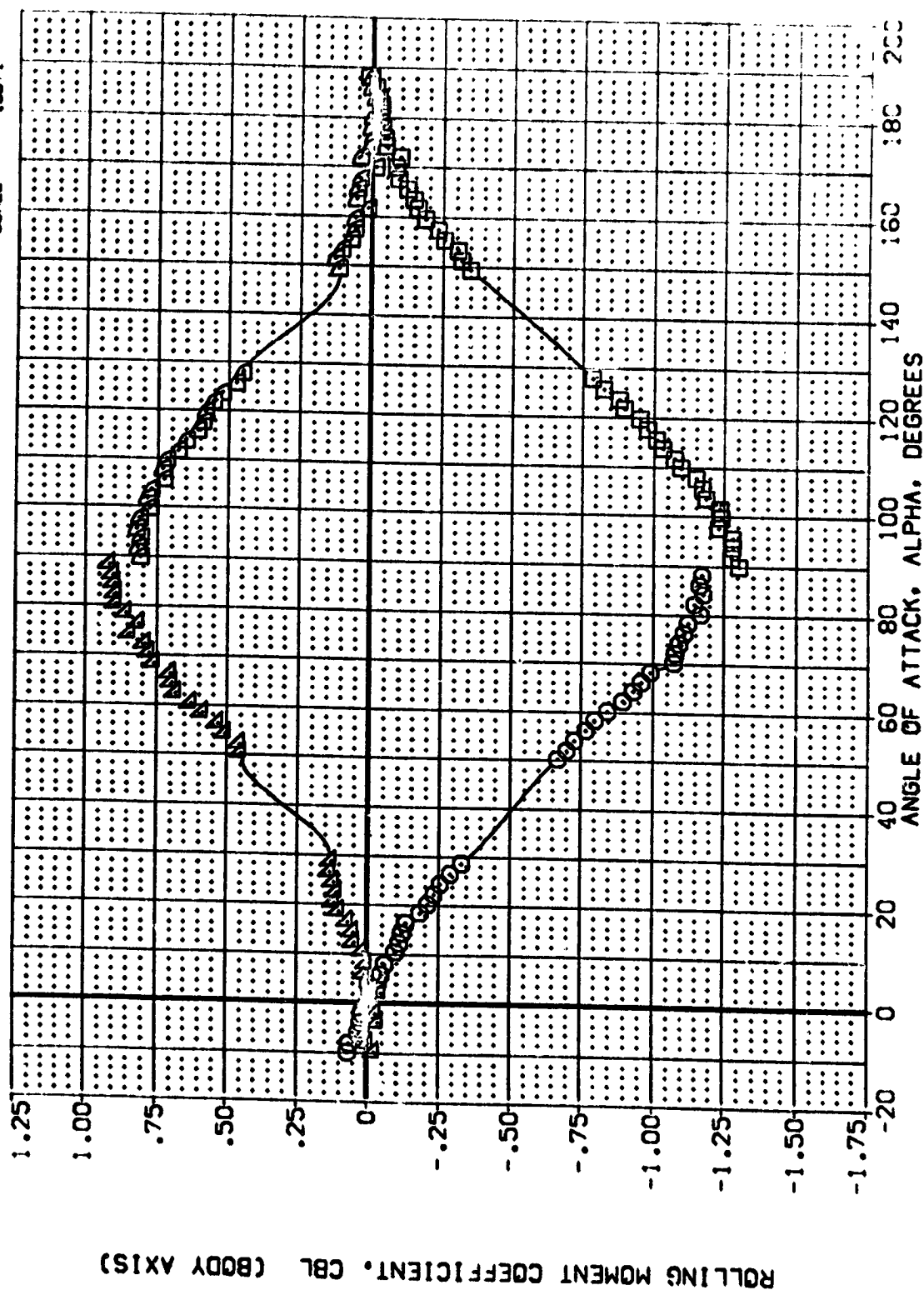
CEJMACH = 3.48

PAGE 13:

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 :RSTA(4) MSFC 587(FA4) TITAN III C SRM (NBETP)

BETA PHI
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 .000 180.000
 .000 202.500
 .000 202.500
 .000 225.000
 .000 225.000

REFERENCE INFORMATION
 SREF .6360 SO. IN
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96



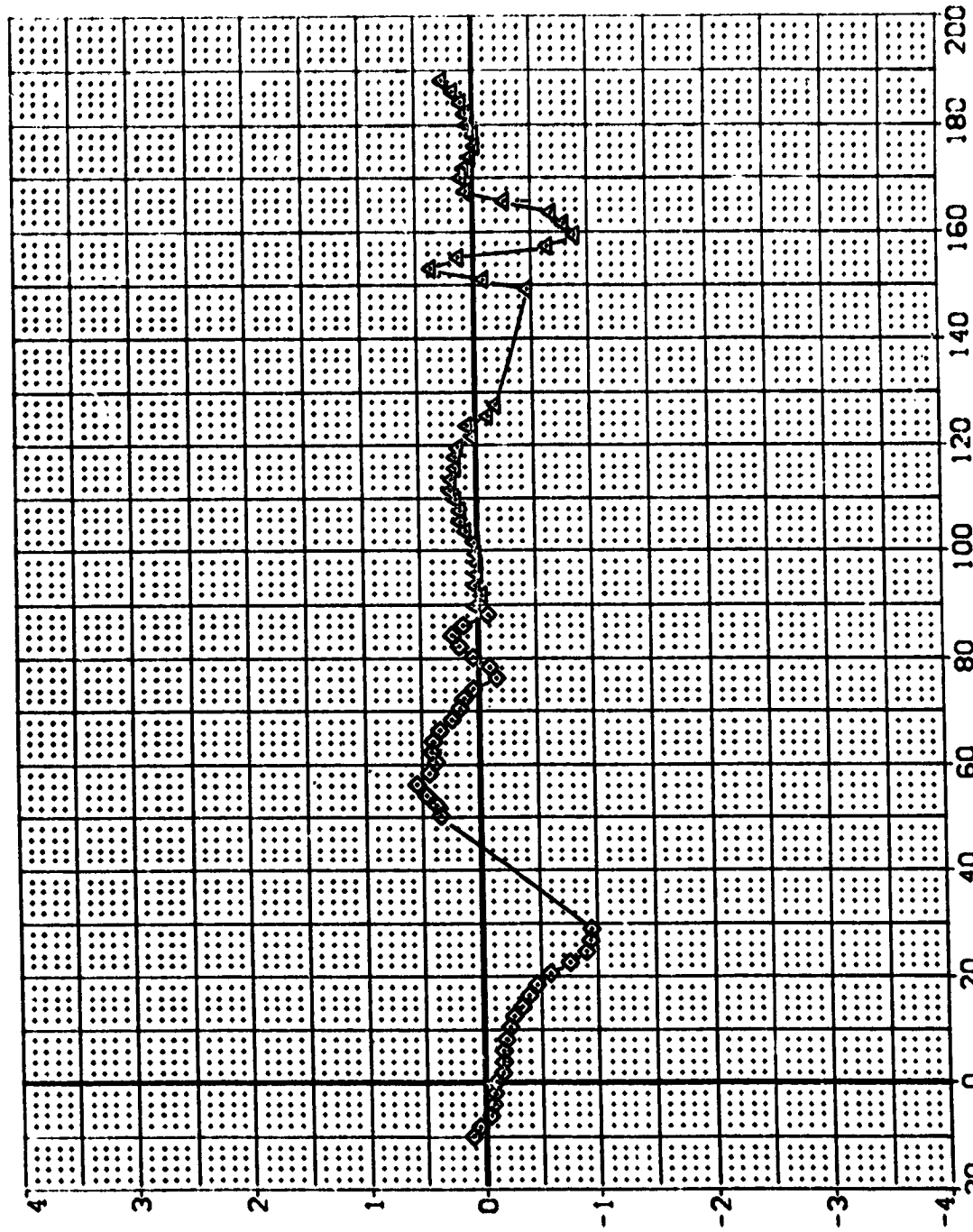
REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0074

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 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (R57A12) DATA NOT AVAILABLE
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 (R57A10) MSFC 587(FA4) TITAN III C SRM (NBE2P)
 (R57A07) DATA NOT AVAILABLE
 (R57A08) DATA NOT AVAILABLE

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE1P)

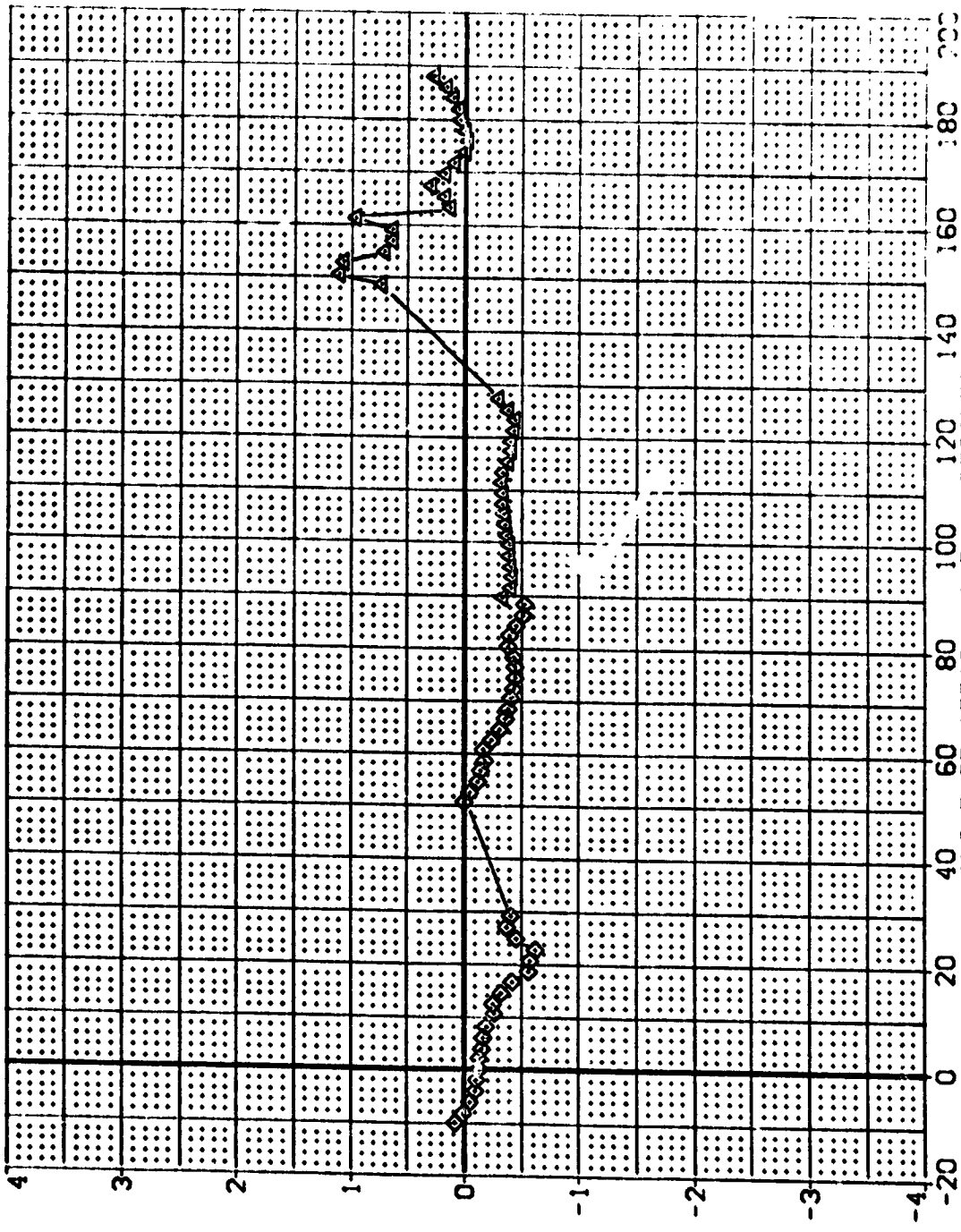
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 BREF .5000 IN.
 XMRP .5330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PH1
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 (R57A10) MSFC 567(PA4) TITAN III C SRM (NBETP)
 (R57A07) DATA NOT AVAILABLE
 (R57A08) DATA NOT AVAILABLE

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

PAGE 134

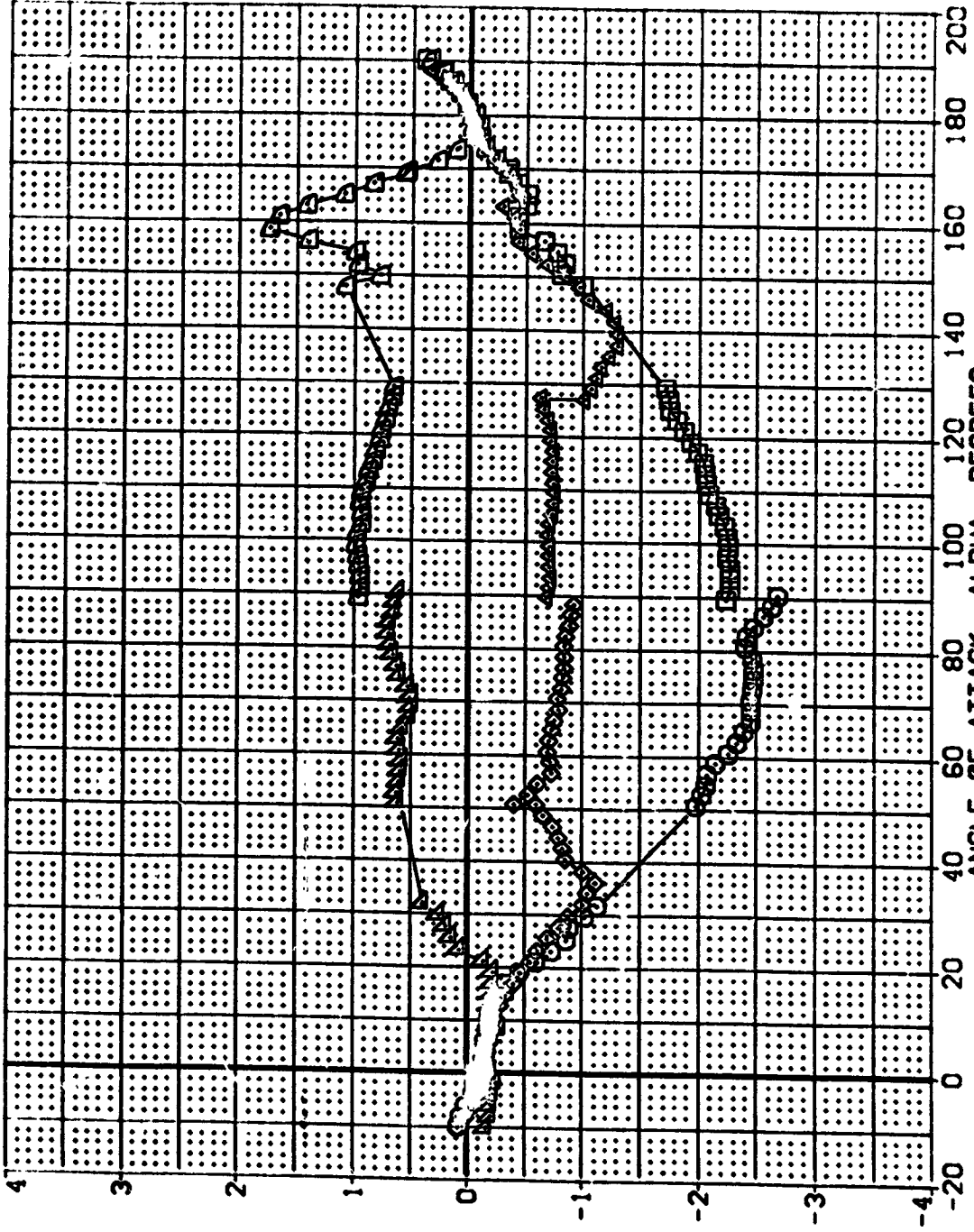


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 BREF 9000 IN.
 YMRP 4.6330 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
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 .000 247.500
 .000 270.000
 .000 292.500
 .000 292.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 :R97A12 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A13 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A14 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A15 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A16 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A17 :S C C 587(FA4) TITAN III C SRM (NBETP)
 :R97A18 :S C C 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS SIDE FORCE COEFFICIENT, CYN

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.20

PAGE 135



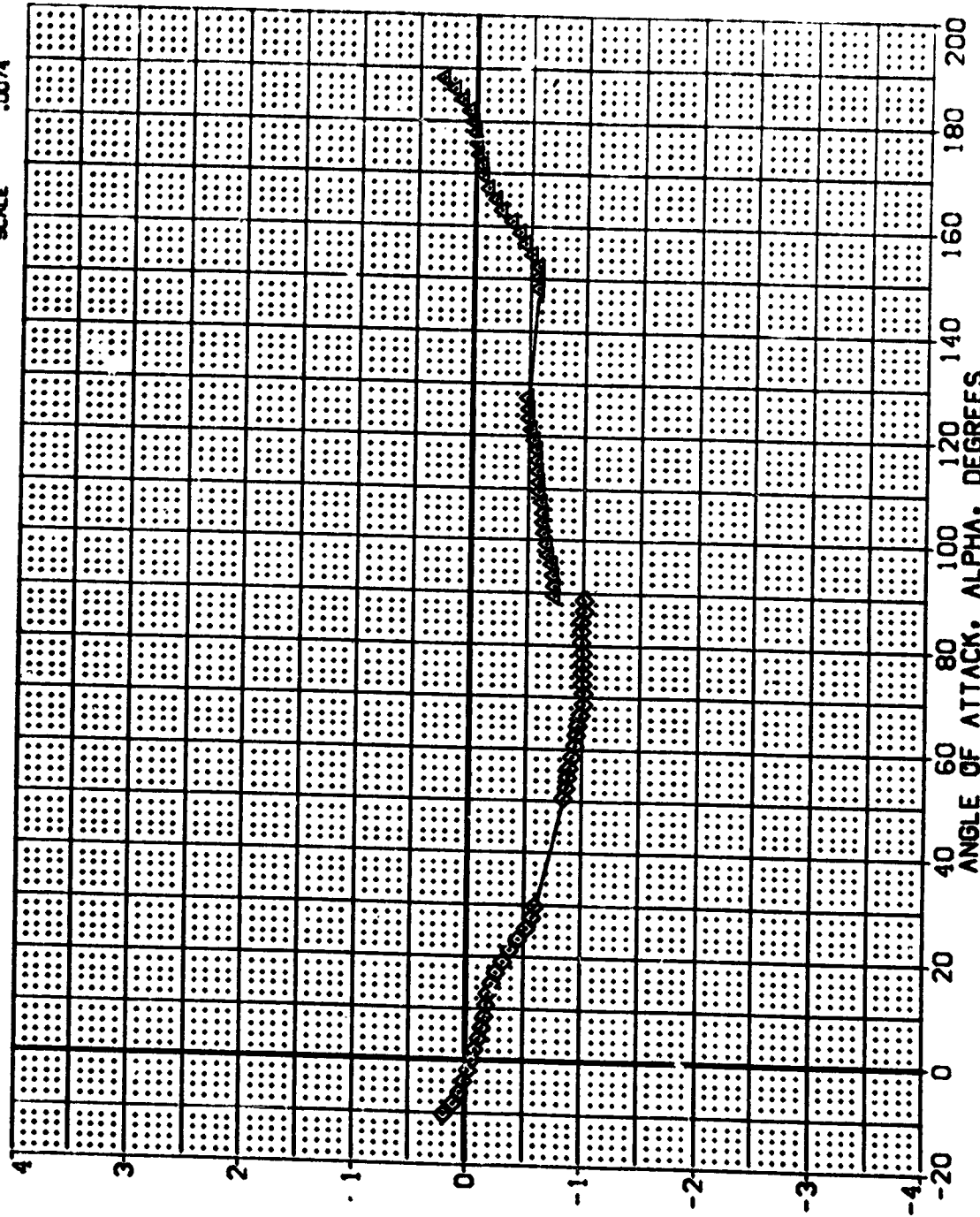
MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

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[R57A12] DATA NOT AVAILABLE
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[R57A10] M56C 587(F44) TITAN III E 584 (NBETP)
[R57A07] DATA NOT AVAILABLE
[R57A08] DATA NOT AVAILABLE

PHI
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247.500
247.500
270.000
282.500

BETA
.000
.000
.000
.000
.000

REFERENCE INFORMATION
SREF .6350 SQ. IN.
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BREF .9000 IN.
XMRP 4.6350 IN.
YMRP .0000 IN.
ZMRP .0000 IN.
SCALE .0074



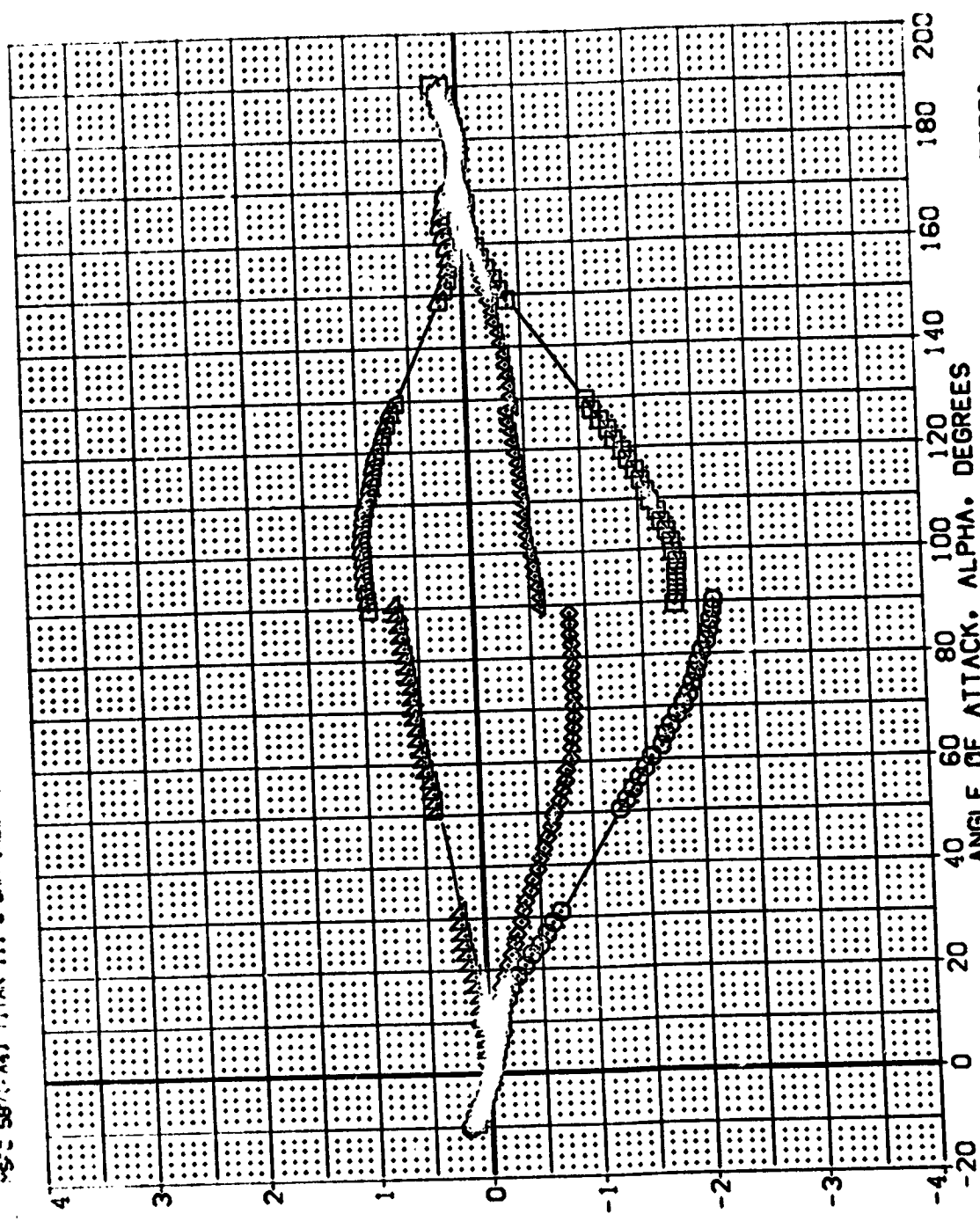
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(O)MACH = 1.96

REFERENCE INFORMATION IN
 SREF 6.360
 LREF 6.100
 BREF 9.000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

BETA PHI
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONF. NO. 580. CONF. NO. 580. CONF. NO. 580. CONF. NO. 580. CONF. NO. 580.
 SYMBO. 580. SYMBO. 580. SYMBO. 580. SYMBO. 580. SYMBO. 580.
 DESCRIPTION TITAN TITAN TITAN TITAN TITAN
 SRM (NBETP) SRM (NBETP) SRM (NBETP) SRM (NBETP) SRM (NBETP)
 CCCCCC C



MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)
 PAGE 137

(E)MACH = 3.48

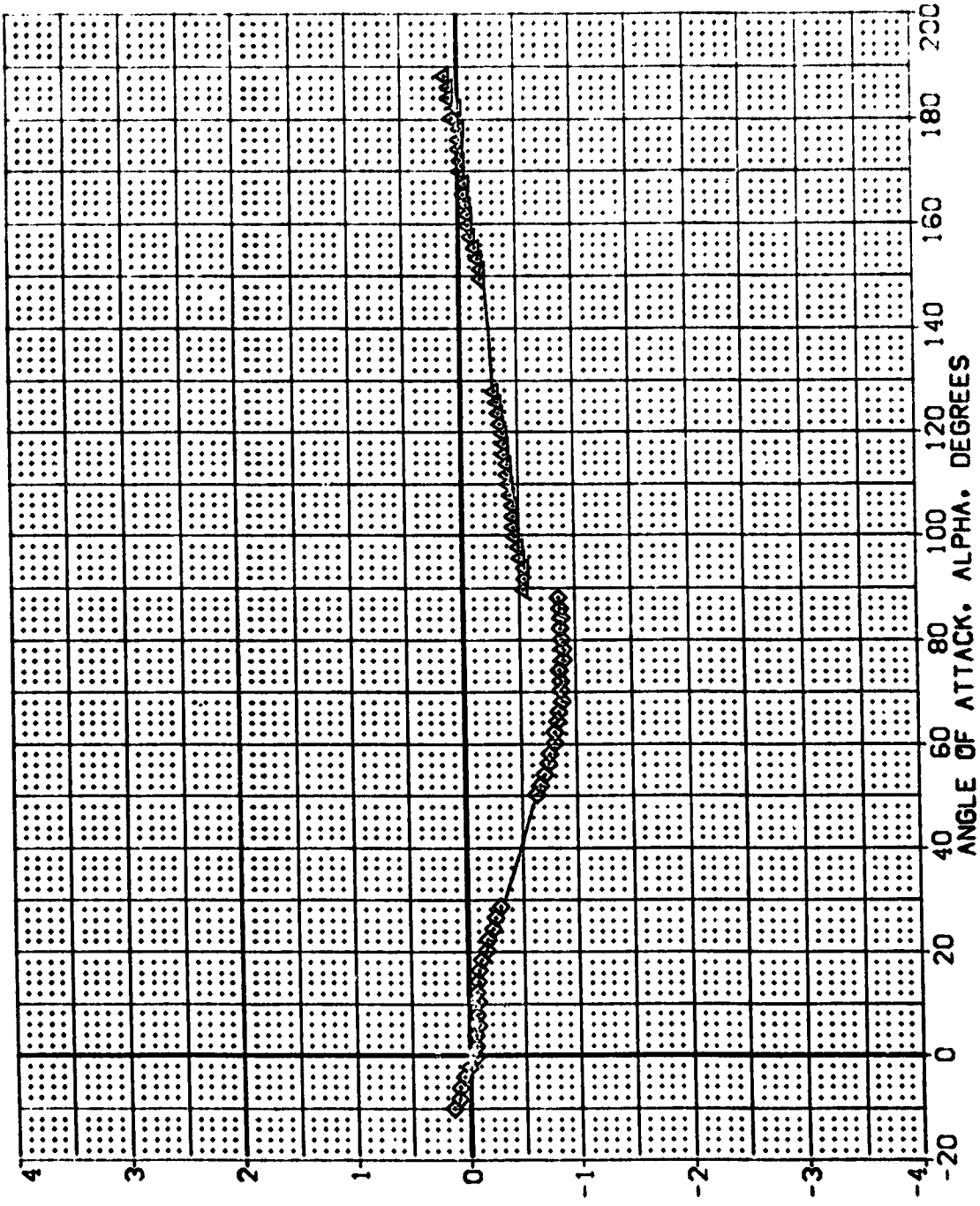
DATA SET SYMBO. CONFIGURATION DESCRIPTION

- ☐ DATA NOT AVAILABLE
- ☒ DATA NOT AVAILABLE
- ☒ MSFC 587(FA4) TITAN III C SRM (NBETIP)
- ☒ MSFC 587(FA4) TITAN III C SRM (NBETIP)
- ☒ MSFC 587(FA4) TITAN III C SRM (NBETIP)
- ☒ MSFC 587(FA4) TITAN III C SRM (NBETIP)
- ☒ MSFC 587(FA4) TITAN III C SRM (NBETIP)

BETA PHI
 .000 247.500
 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

REFERENCE INFORMATION
 SREF .6360
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETIP)

(FMACH = 4.96

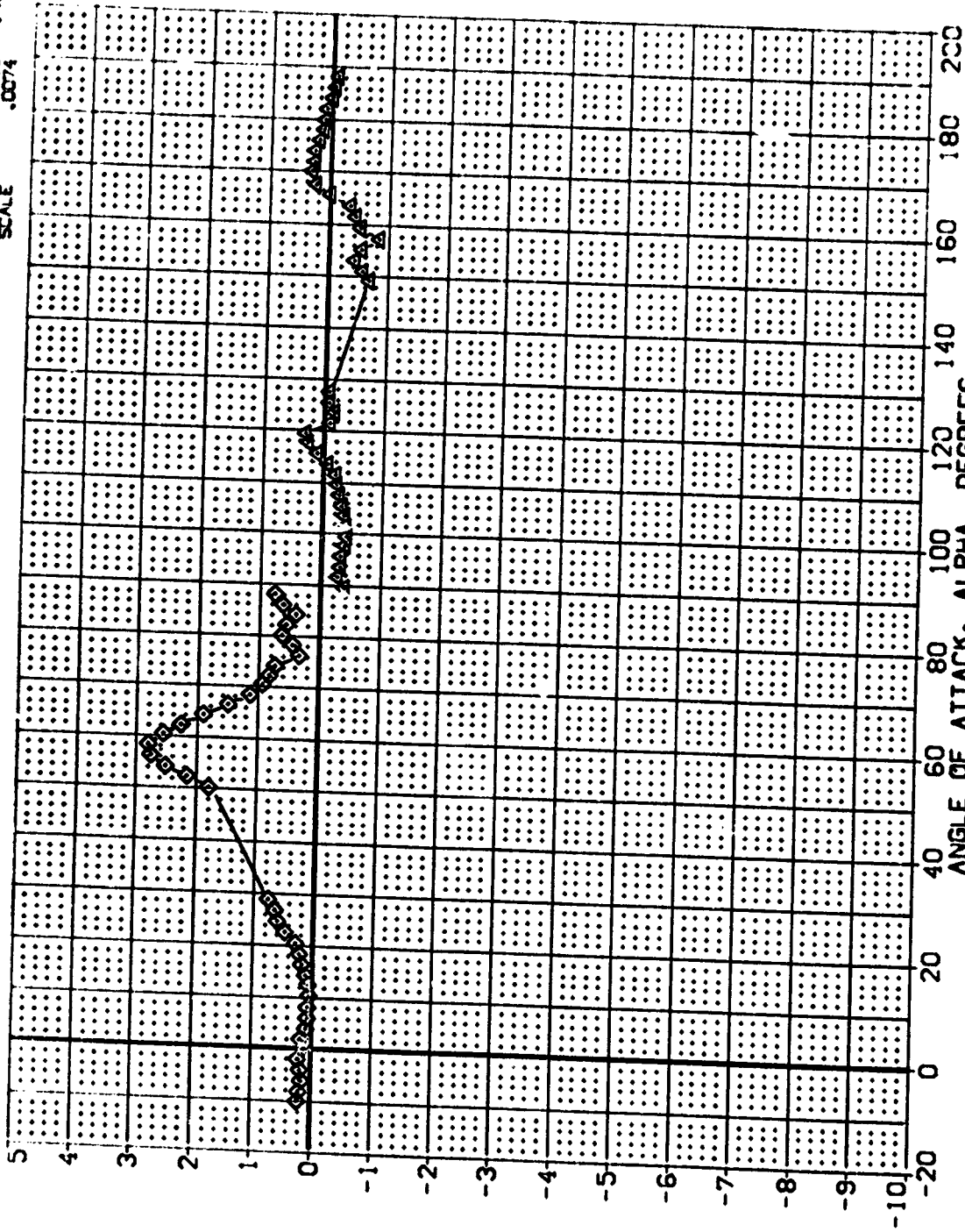


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 (PSTAC4) S87(F4) TITAN III C SRM (NBETP)
 (PSTAC5) DATA NOT AVAILABLE
 (PSTAC6) DATA NOT AVAILABLE

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 .000 270.000
 .000 292.500
 .000 292.500

REFERENCE INFORMATION
 SREF .6350
 LREF .9000
 BREF .9000
 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074



MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

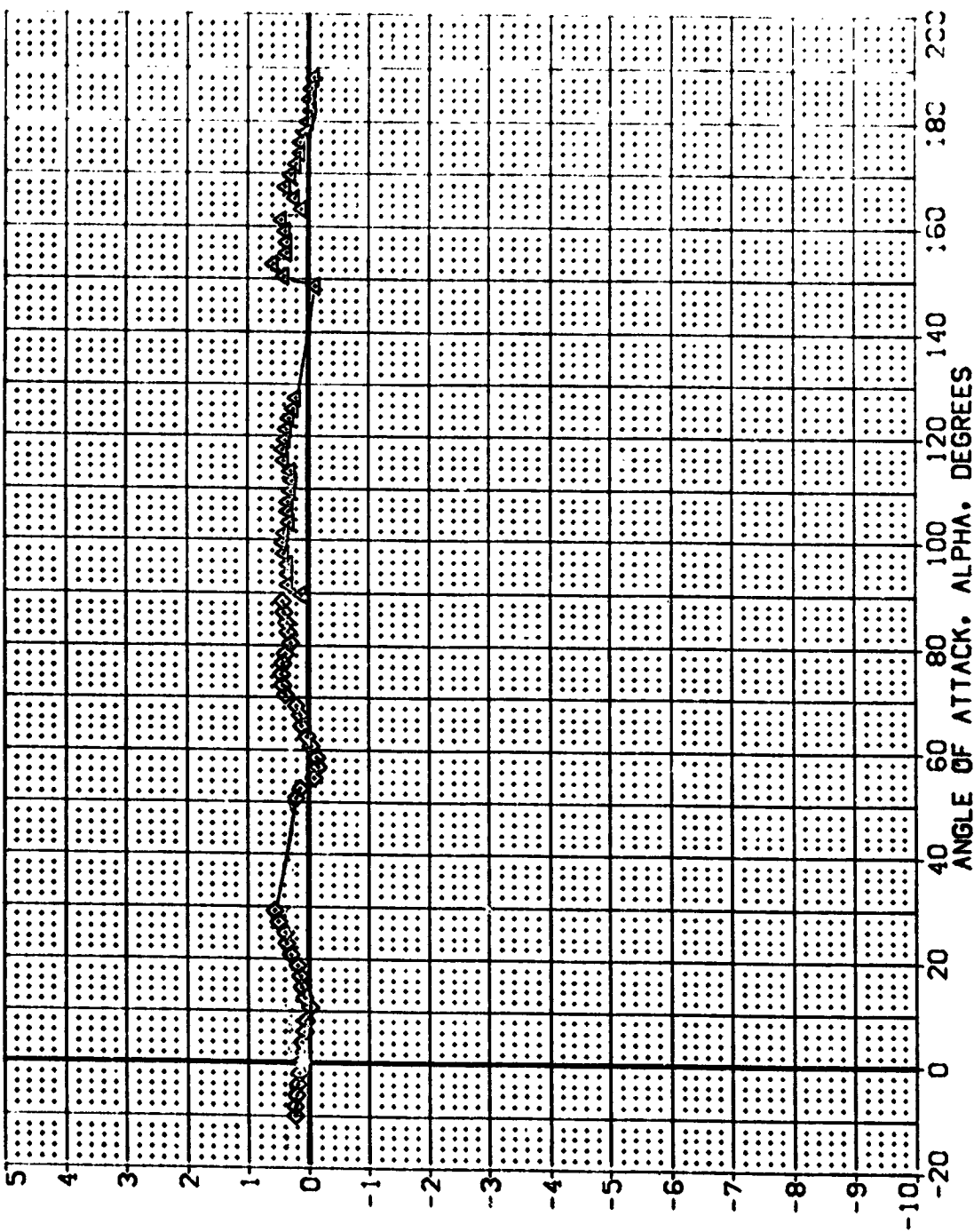
(AJMACH = .60

REFERENCE INFORMATION
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 BREF 9000
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 YMRP 4.633C
 ZMRP 4.633C
 SCALE .0014

BETA PHI
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 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

CONFIGURATION DESCRIPTION
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

DATA SET SYMBOL
 :R97A11
 :R97A12
 :R97A13
 :R97A14
 :R97A15
 :R97A16



MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)



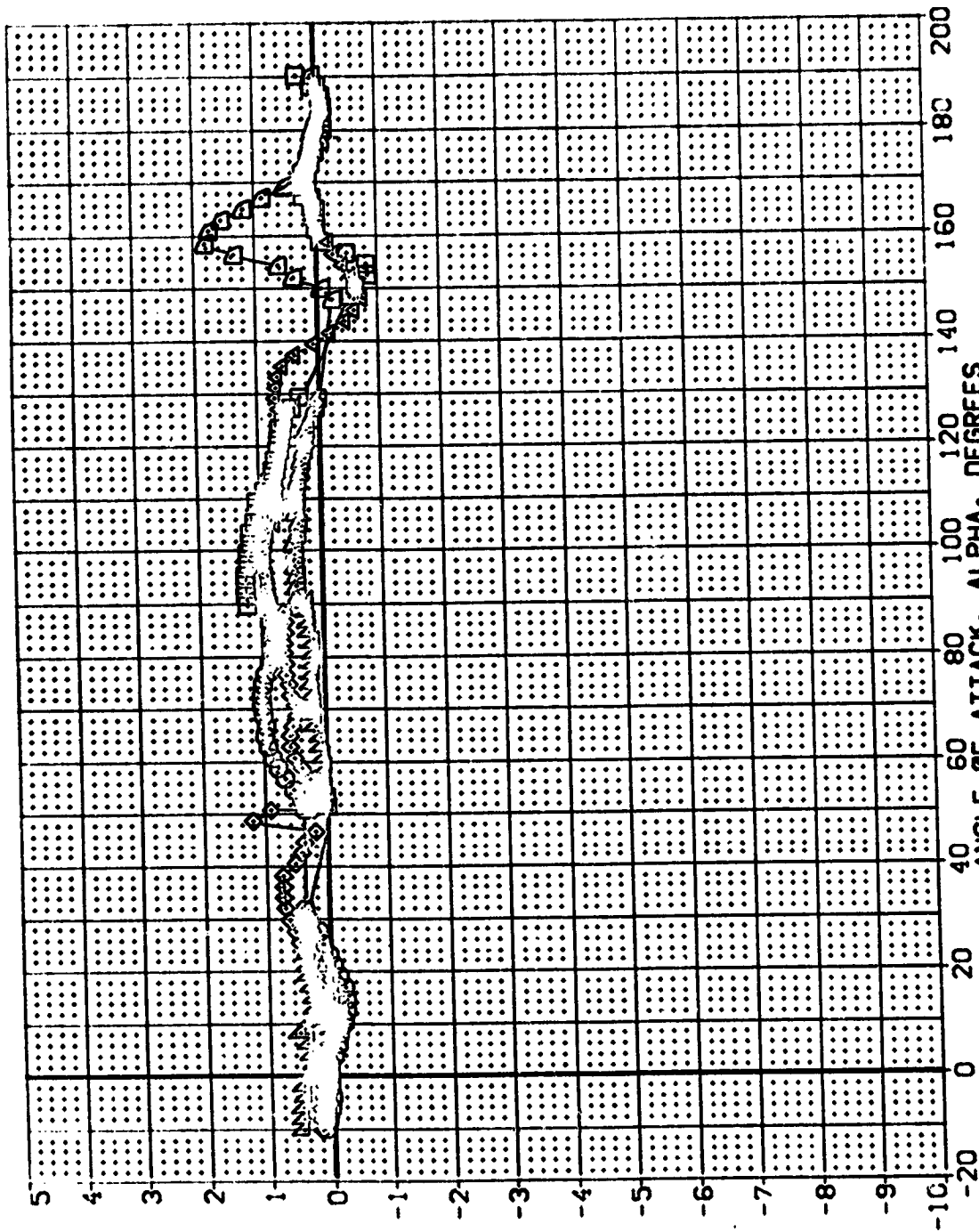
REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 4
 6300
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 0000
 0074

BETA PHI
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 .000 270.000
 .000 270.000
 .000 292.500
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 S87(PA4) TITAN III C SRM (NBETP)
 S87(PA4) TITAN III C SRM (NBETP)
 S87(PA4) TITAN III C SRM (NBETP)
 S87(PA4) TITAN III C SRM (NBETP)
 S87(PA4) TITAN III C SRM (NBETP)

MISSILE YAWING MOMENT COEFFICIENT, C_{YM}



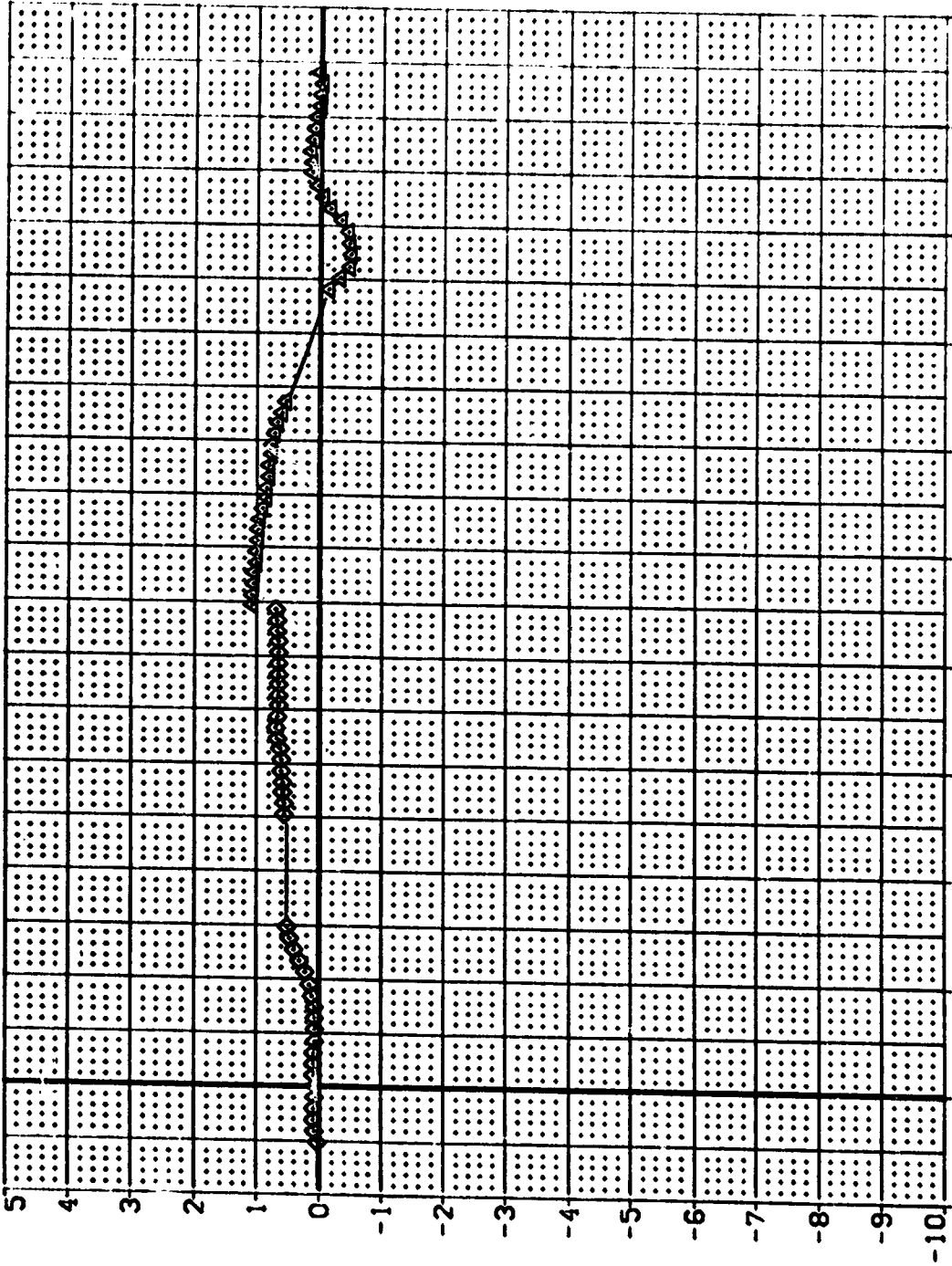
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(C)MACH = 1.20

REFERENCE INFORMATION
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 LRREF 9.000
 BRREF 9.000
 YMRP 4.633C
 ZMRP .0000
 SCALE .0374

BETA PHI
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 .000 247.500
 .000 270.000
 .000 270.000
 .000 292.500

DATA SET SYMBO. CONFIGURATION DESCRIPTION
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 :R57A12} DATA NOT AVAILABLE
 :R57A13} MSFC 5871FA4} TITAN III C SRM (NBETP)
 :R57A14} MSFC 5871FA4} TITAN III C SRM (NBETP)
 :R57A15} DATA NOT AVAILABLE
 :R57A16} DATA NOT AVAILABLE



MISSILE AXIS YAWING MOMENT COEFFICIENT, CYNM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(DJMACH = 1.96

PAGE : 42

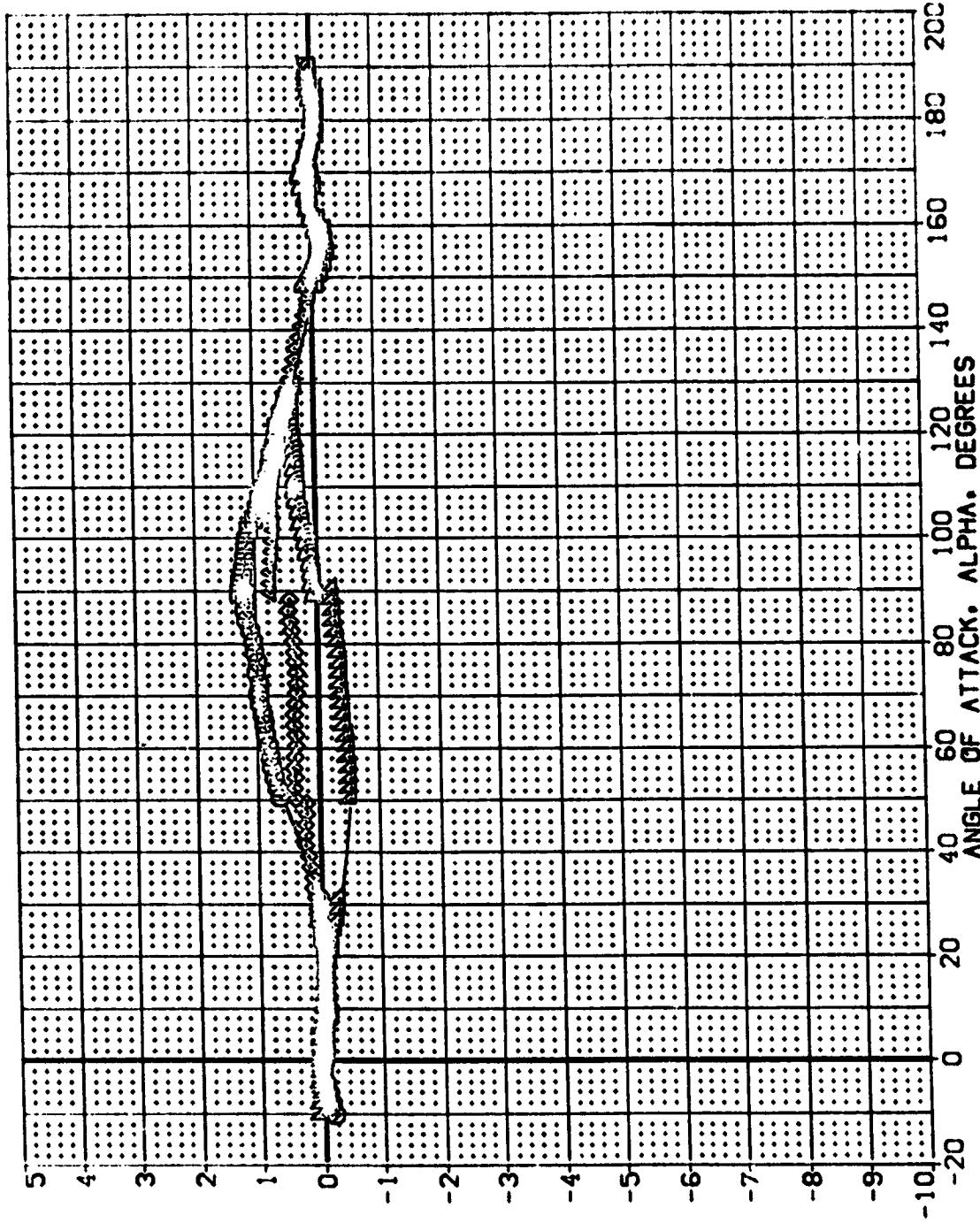


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 BREF .9000
 XMRP .4
 YMRP .6330
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 SCALE .0074

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 C 587(F4) TITAN III C SRM (NBETP)
 C 587(F4) TITAN III C SRM (NBETP)
 C 587(F4) TITAN III C SRM (NBETP)
 C 587(F4) TITAN III C SRM (NBETP)
 C 587(F4) TITAN III C SRM (NBETP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)



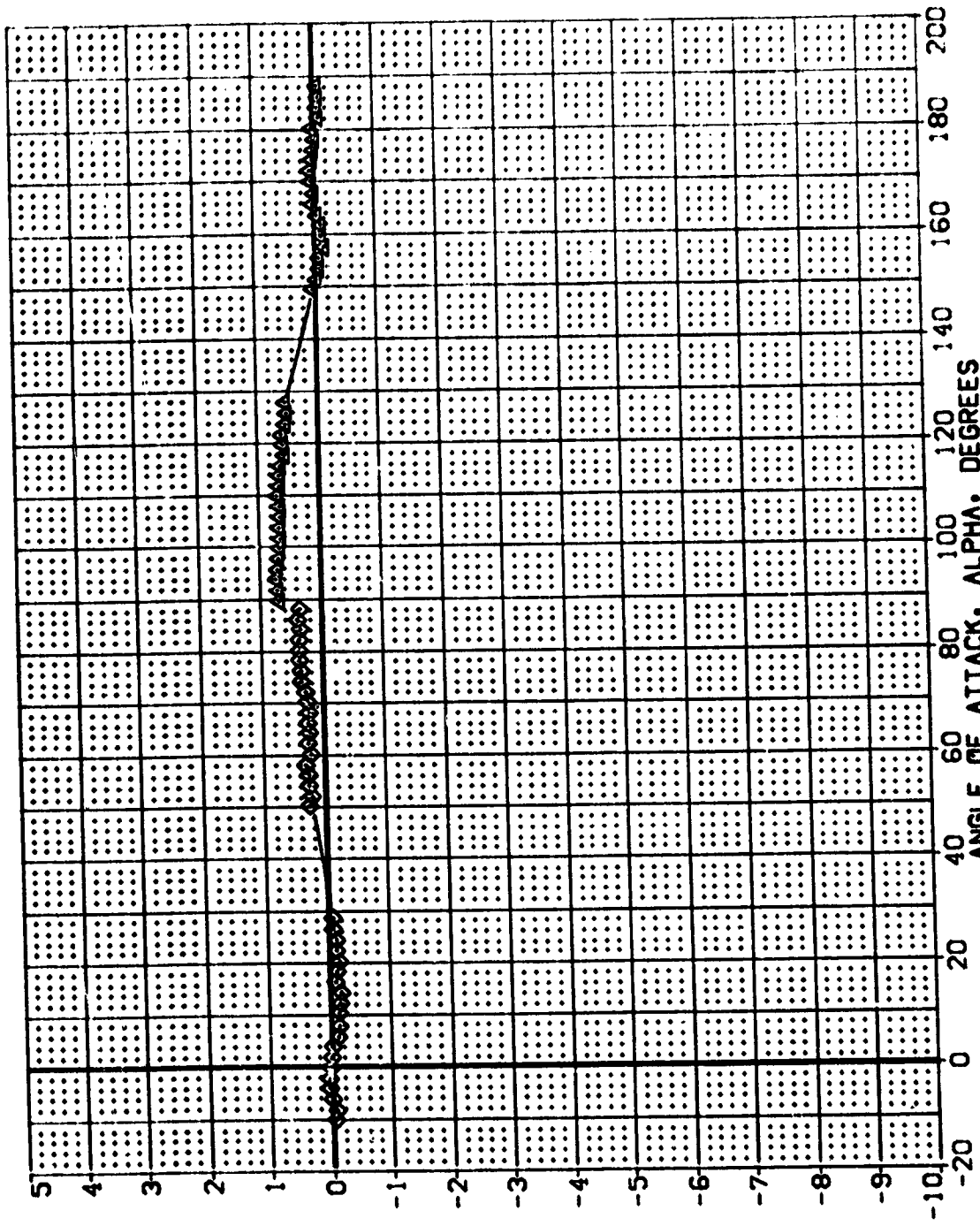
MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

DATA SET SYMB. : R57A11 }
: R57A12 }
: R57A13 }
: R57A10 }
: R57A07 }
: R57A08 }

CONFIGURATION DESCRIPTION
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DATA NOT AVAILABLE
MSFC 5871FA4 } TITAN III C SRM (NBETP)
MSFC 5871FA4 } TITAN III C SRM (NBETP)
DATA NOT AVAILABLE
DATA NOT AVAILABLE

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: .000 270.000
: .000 270.000
: .000 292.500
: .000 292.500

REFERENCE INFORMATION
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LREF : 9.000
XMRP : 4.630
YMRP : .000
ZMRP : .000
SCALE : .0074



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

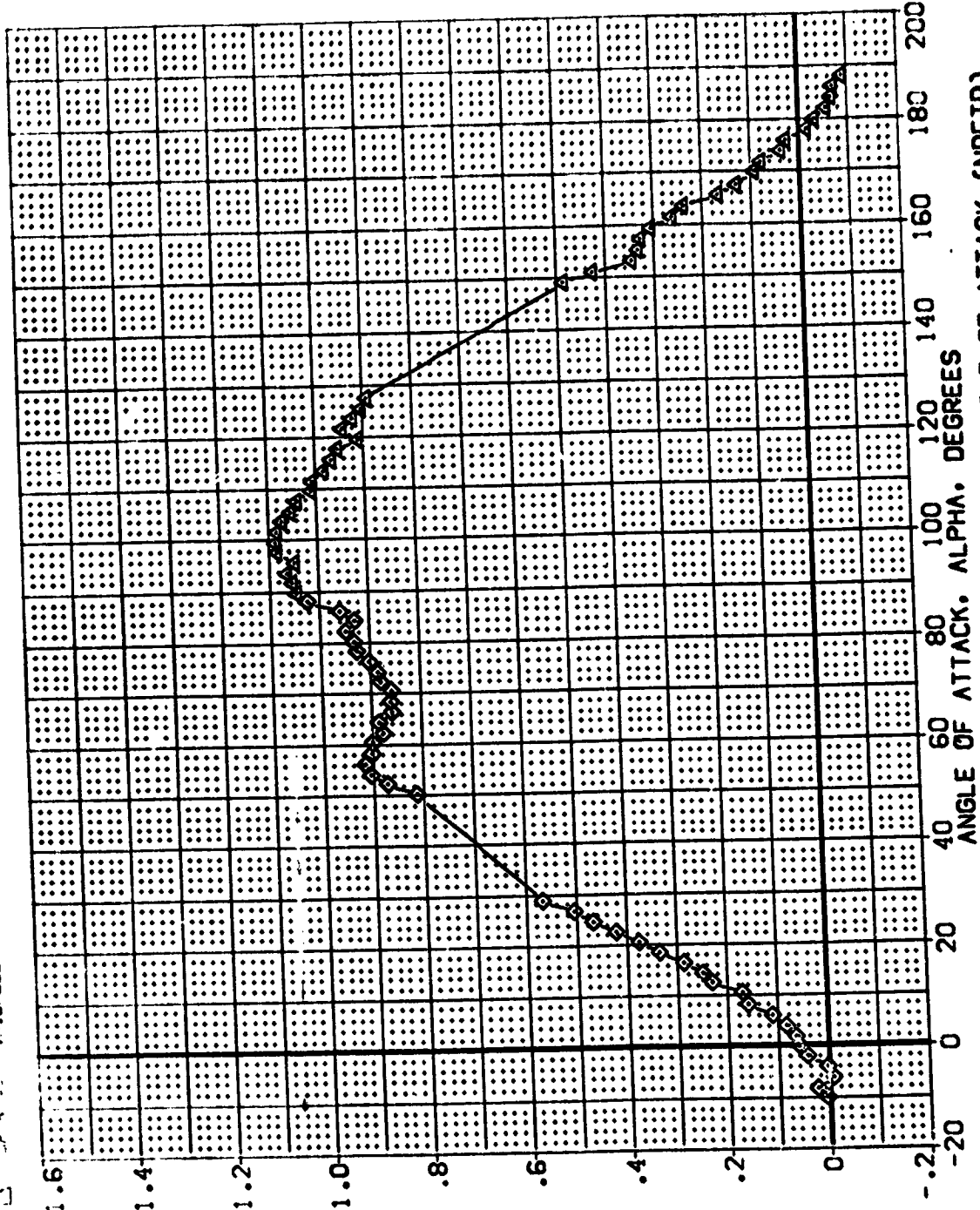
(F)MACH = 4.96

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 BRREF 9000
 4 6330
 YMRP 9000
 ZMRP 9000
 SCALE 0074

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 .000 270.000
 .000 270.000
 .000 292.500
 .000 292.500

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

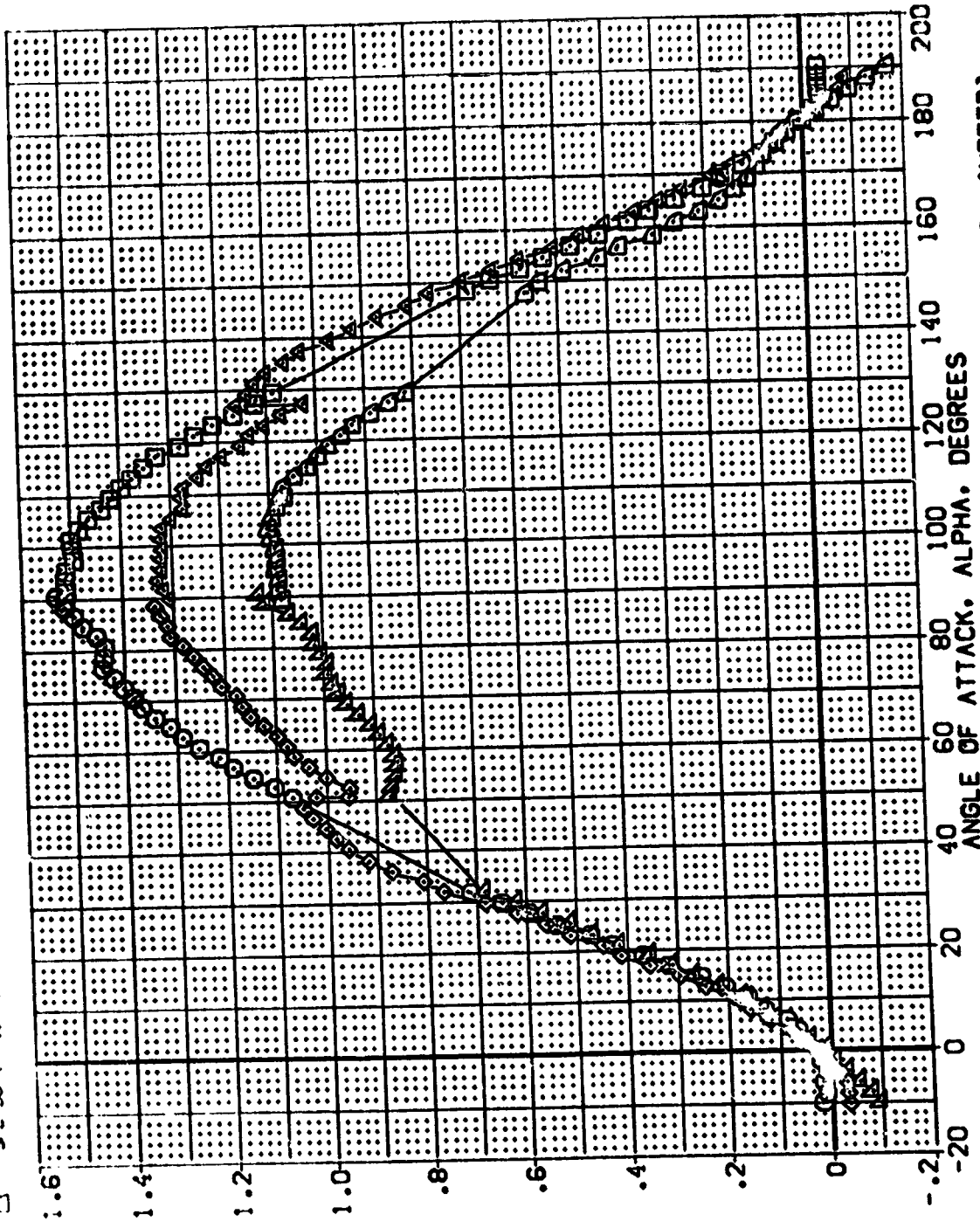
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(MACH = .60)

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RS7A13	587.5A4	TITAN
RS7A14	587.5A4	TITAN
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RS7A16	587.5A4	TITAN
RS7A17	587.5A4	TITAN
RS7A18	587.5A4	TITAN
RS7A19	587.5A4	TITAN
RS7A20	587.5A4	TITAN
RS7A21	587.5A4	TITAN
RS7A22	587.5A4	TITAN
RS7A23	587.5A4	TITAN
RS7A24	587.5A4	TITAN
RS7A25	587.5A4	TITAN
RS7A26	587.5A4	TITAN
RS7A27	587.5A4	TITAN
RS7A28	587.5A4	TITAN
RS7A29	587.5A4	TITAN
RS7A30	587.5A4	TITAN
RS7A31	587.5A4	TITAN
RS7A32	587.5A4	TITAN
RS7A33	587.5A4	TITAN
RS7A34	587.5A4	TITAN
RS7A35	587.5A4	TITAN
RS7A36	587.5A4	TITAN
RS7A37	587.5A4	TITAN
RS7A38	587.5A4	TITAN
RS7A39	587.5A4	TITAN
RS7A40	587.5A4	TITAN
RS7A41	587.5A4	TITAN
RS7A42	587.5A4	TITAN
RS7A43	587.5A4	TITAN
RS7A44	587.5A4	TITAN
RS7A45	587.5A4	TITAN
RS7A46	587.5A4	TITAN
RS7A47	587.5A4	TITAN
RS7A48	587.5A4	TITAN
RS7A49	587.5A4	TITAN
RS7A50	587.5A4	TITAN
RS7A51	587.5A4	TITAN
RS7A52	587.5A4	TITAN
RS7A53	587.5A4	TITAN
RS7A54	587.5A4	TITAN
RS7A55	587.5A4	TITAN
RS7A56	587.5A4	TITAN
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RS7A58	587.5A4	TITAN
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RS7A60	587.5A4	TITAN
RS7A61	587.5A4	TITAN
RS7A62	587.5A4	TITAN
RS7A63	587.5A4	TITAN
RS7A64	587.5A4	TITAN
RS7A65	587.5A4	TITAN
RS7A66	587.5A4	TITAN
RS7A67	587.5A4	TITAN
RS7A68	587.5A4	TITAN
RS7A69	587.5A4	TITAN
RS7A70	587.5A4	TITAN
RS7A71	587.5A4	TITAN
RS7A72	587.5A4	TITAN
RS7A73	587.5A4	TITAN
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RS7A80	587.5A4	TITAN
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RS7A82	587.5A4	TITAN
RS7A83	587.5A4	TITAN
RS7A84	587.5A4	TITAN
RS7A85	587.5A4	TITAN
RS7A86	587.5A4	TITAN
RS7A87	587.5A4	TITAN
RS7A88	587.5A4	TITAN
RS7A89	587.5A4	TITAN
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RS7A93	587.5A4	TITAN
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RS7A95	587.5A4	TITAN
RS7A96	587.5A4	TITAN
RS7A97	587.5A4	TITAN
RS7A98	587.5A4	TITAN
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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

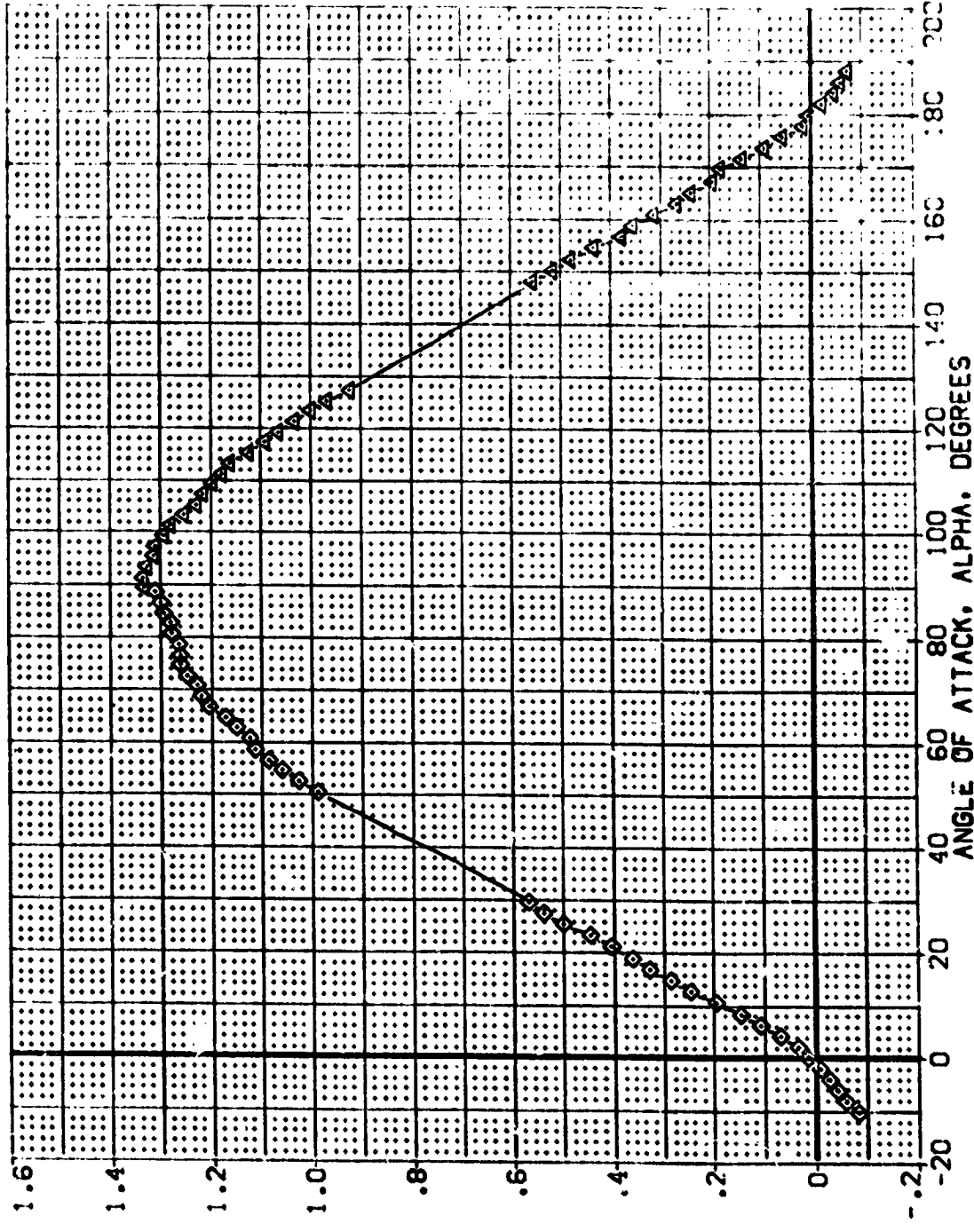
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(CJMACH = 1.20

REFERENCE INFORMATION
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 XREF .5000
 YREF .5000
 ZREF .5000
 SCALE

BETA PHI
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 (R57A12) DATA NOT AVAILABLE
 (R57A09) MSEC 587(FM) TITAN III C SRM (NBETP)
 (R57A10) MSEC 587(FM) TITAN III C SRM (NBETP)
 (R57A13) DATA NOT AVAILABLE
 (R57A07) DATA NOT AVAILABLE
 (R57A08) DATA NOT AVAILABLE



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

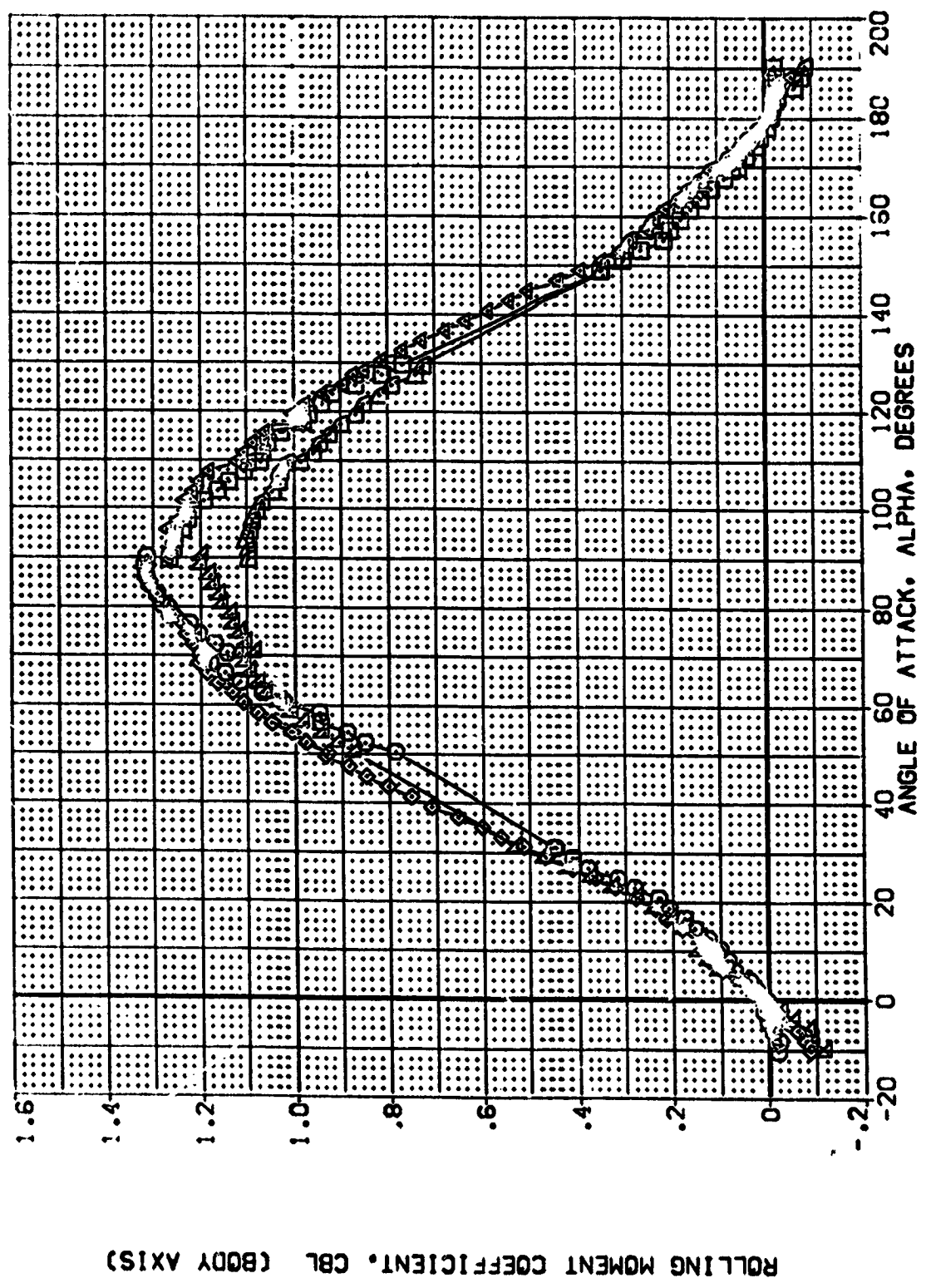


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 ZMRP .0000
 SCALE .0071

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 .000 247.500
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 .000 247.500

CONFIGURATION DESCRIPTION
 MS C 587 (FA4) TITAN III C SRV (NBETP)
 MS C 587 (FA4) TITAN III C SRV (NBETP)
 MS C 587 (FA4) TITAN III C SRV (NBETP)
 MS C 587 (FA4) TITAN III C SRV (NBETP)
 MS C 587 (FA4) TITAN III C SRV (NBETP)

DATA SET SYMBOL
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 (RSTA2)
 (RSTA3)
 (RSTA4)
 (RSTA5)
 (RSTA6)



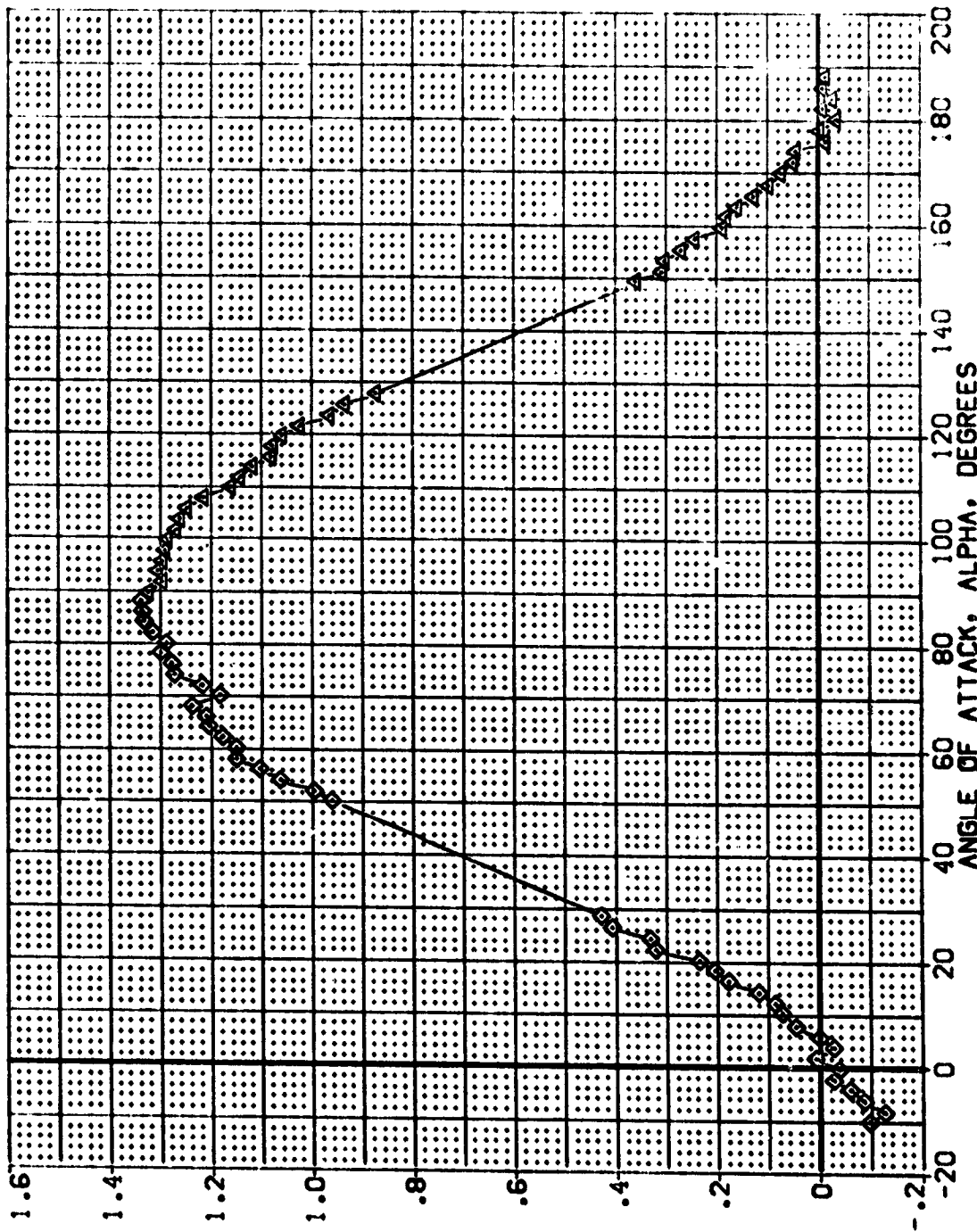
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REFERENCE INFORMATION
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 [RSTA09] MSC 587(F44) TITAN III C SRH (NBETP)
 [RSTA10] MSC 587(F44) TITAN III C SRH (NBETP)
 [RSTA07] DATA NOT AVAILABLE
 [RSTA08] DATA NOT AVAILABLE



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

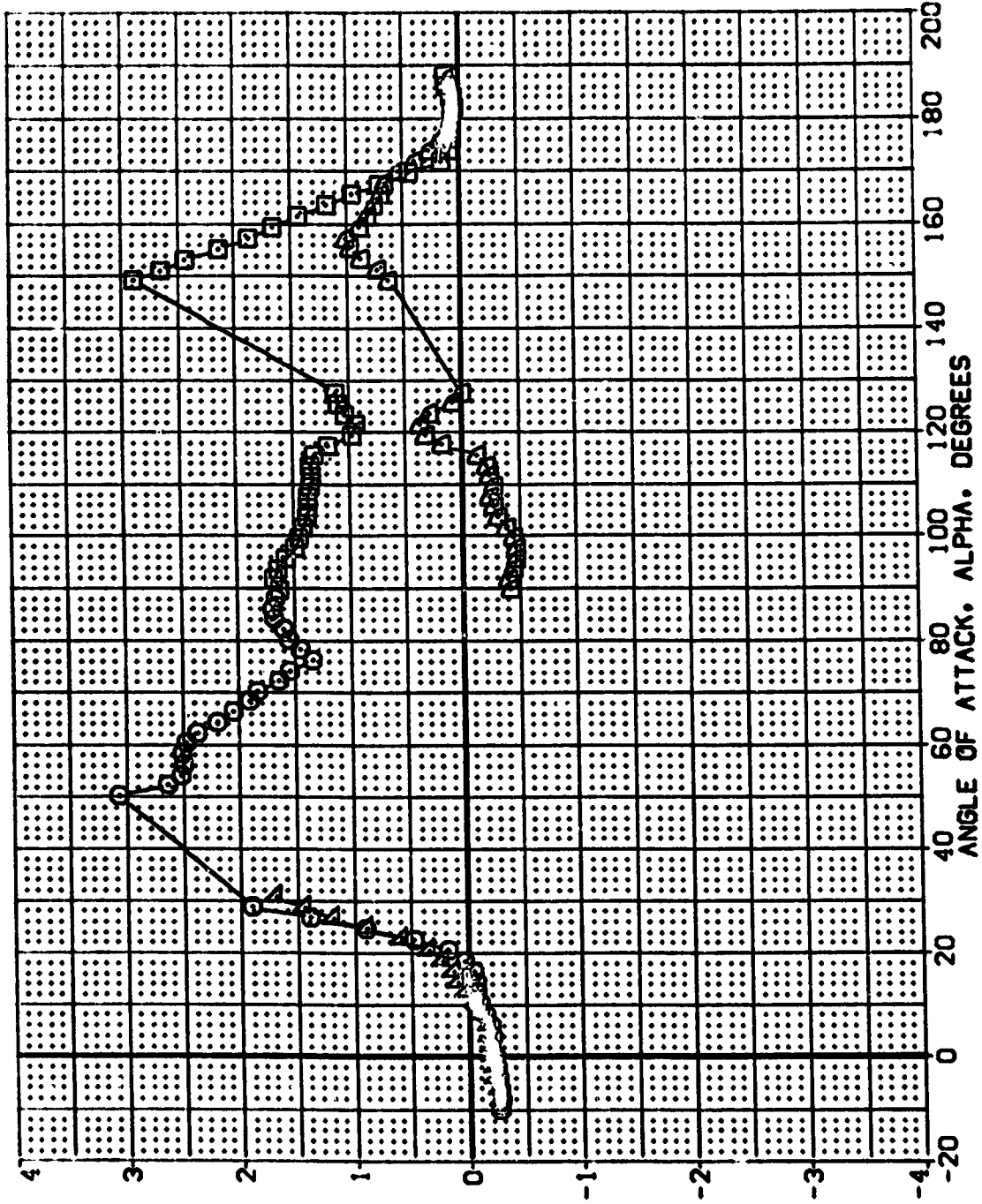
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 SCALE .0074

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 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

CONFIGURATION DESCRIPTION
 MSC 587(F4) TITAN III C SRM (NBETP)
 MSC 587(F4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSC 587(F4) TITAN III C SRM (NBETP)
 MSC 587(F4) TITAN III C SRM (NBETP)

DATA SET SYM:
 [R57AC5]
 [R57AC6]
 [R57AC3]
 [R57AC4]
 [R57AC1]
 [R57AC2]

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

DATA SET SYMBOL: (RSTAC5) (RSTAC6) (RSTAC3) (RSTAC4) (RSTAC1) (RSTAC2)

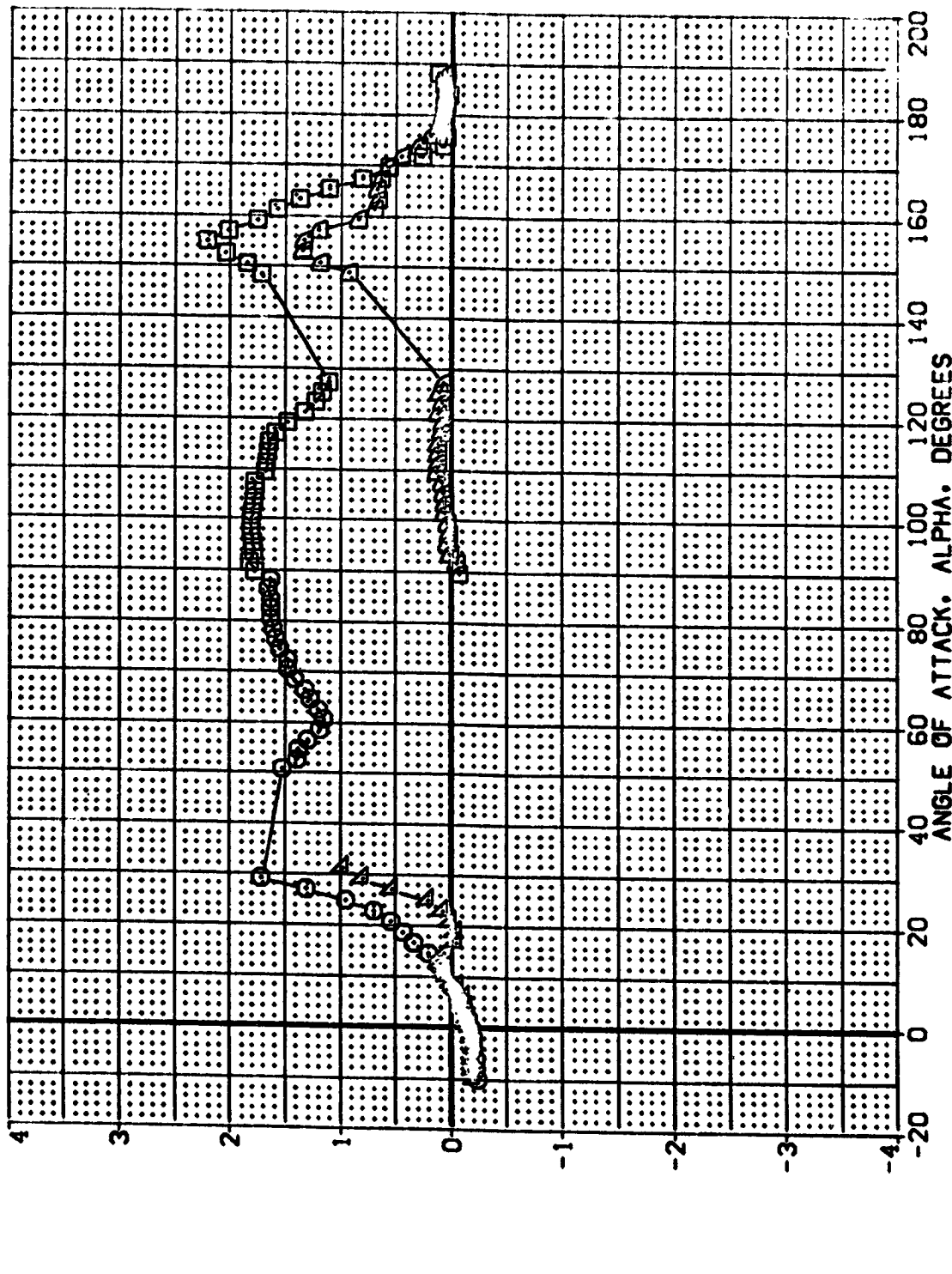
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 MSFC 587(FM) TITAN III C SRH (NBETP)

BETA: .000 315.000
 .000 315.000
 .000 337.500
 .000 337.500
 .000 337.500
 .000 .000

PHI: 315.000
 315.000
 337.500
 337.500
 337.500
 .000

REFERENCE INFORMATION:
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 BREF: .5000 IN.
 XMRP: 4.6330 IN.
 YMRP: .0000 IN.
 ZMRP: .0000 IN.
 SCALE: .0074 IN.

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

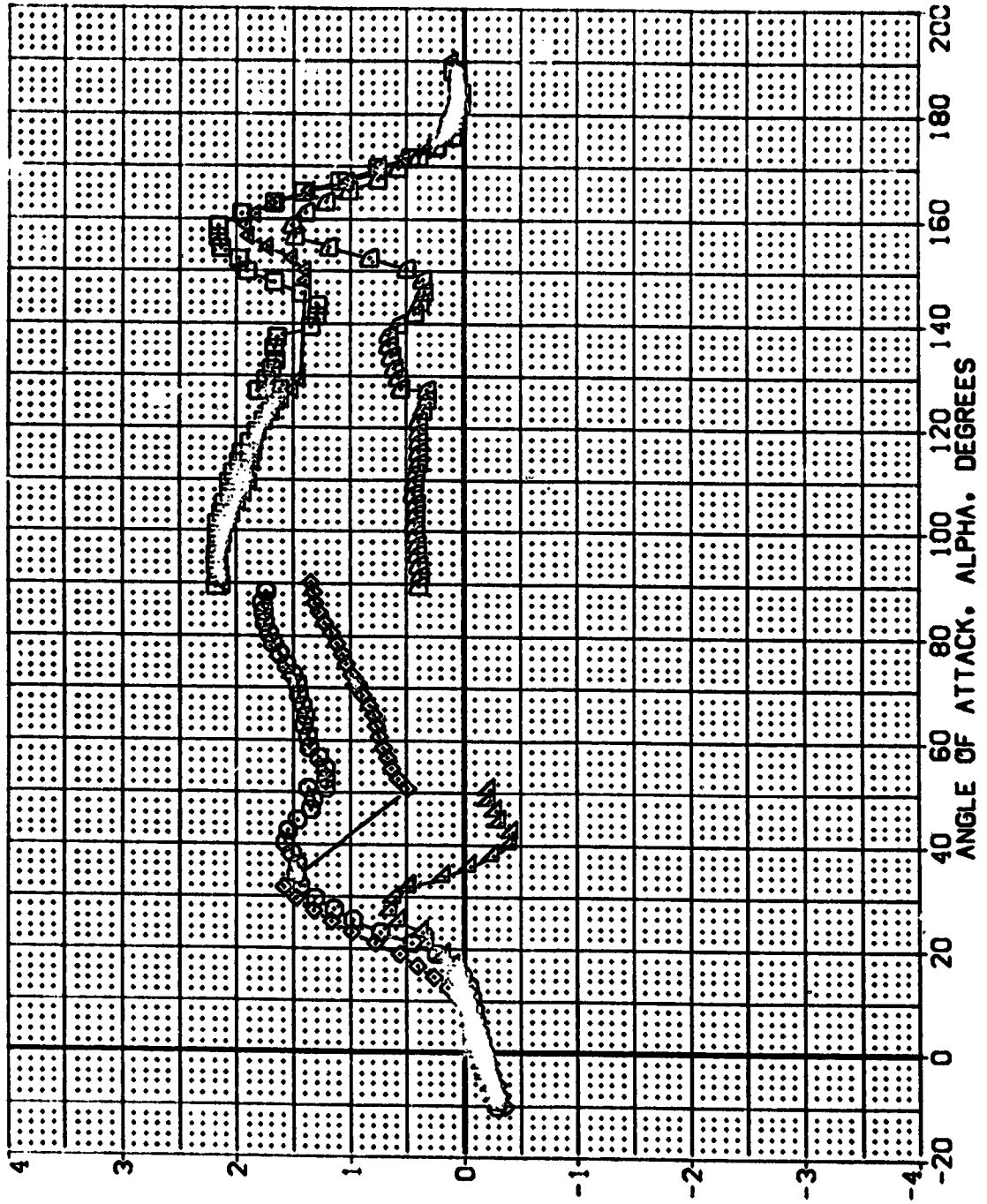
(B)MACH = .80



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 BREF .9000 IN.
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 SCALE .0074

BETA PHI
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 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

DATA SET SYMB. CONFIGURATION DESCRIPTION
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 [RSTAC6] MS C 587(FA4) TITAN III C SRM (NBEIP)
 [RSTAC3] MS C 587(FA4) TITAN III C SRM (NBEIP)
 [RSTAC4] MS C 587(FA4) TITAN III C SRM (NBEIP)
 [RSTAC1] MS C 587(FA4) TITAN III C SRM (NBEIP)
 [RSTAC2] MS C 587(FA4) TITAN III C SRM (NBEIP)



MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBEIP)

(CJMACH = 1.20

PAGE 153

DATA SET SYMBO. CONFIGURATION DESCRIPTION

(RSTAC5) MSC 587(FA4) TITAN III C SRM (NBETP)

(RSTAC6) MSC 587(FA4) TITAN III C SRM (NBETP)

(RSTAC3) DATA NOT AVAILABLE

(RSTAC4) DATA NOT AVAILABLE

(RSTAC1) MSC 587(FA4) TITAN III C SRM (NBETP)

(RSTAC2) MSC 587(FA4) TITAN III C SRM (NBETP)

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.000 .000

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LREF .5000 IN. IN.

BREF .5000 IN. IN.

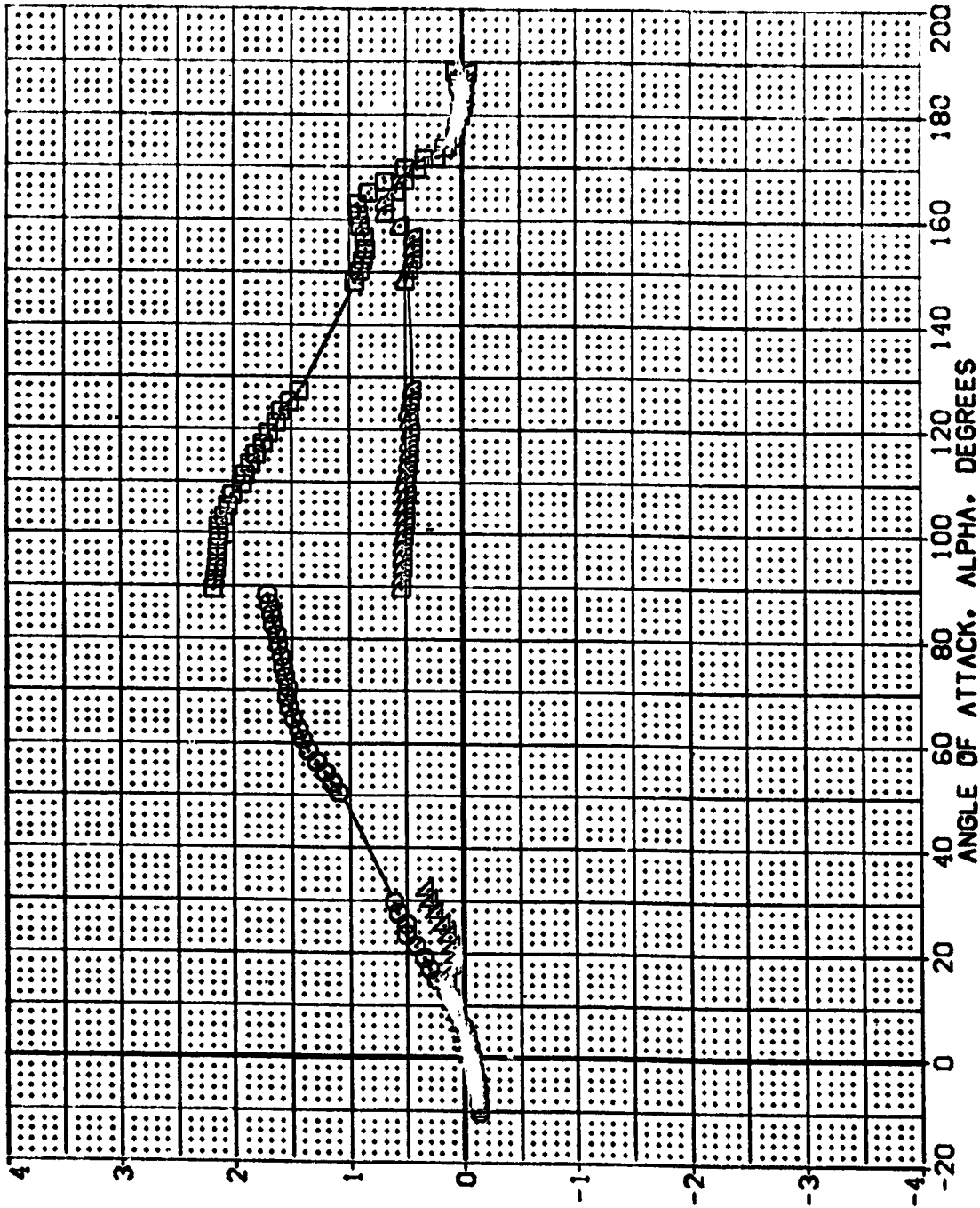
XMRP .6330 IN. IN.

YMRP .0000 IN. IN.

ZMRP .0000 IN. IN.

SCALE .0074

MISSILE AXIS SIDE FORCE COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

COMMACH = 1.96

PAGE 154

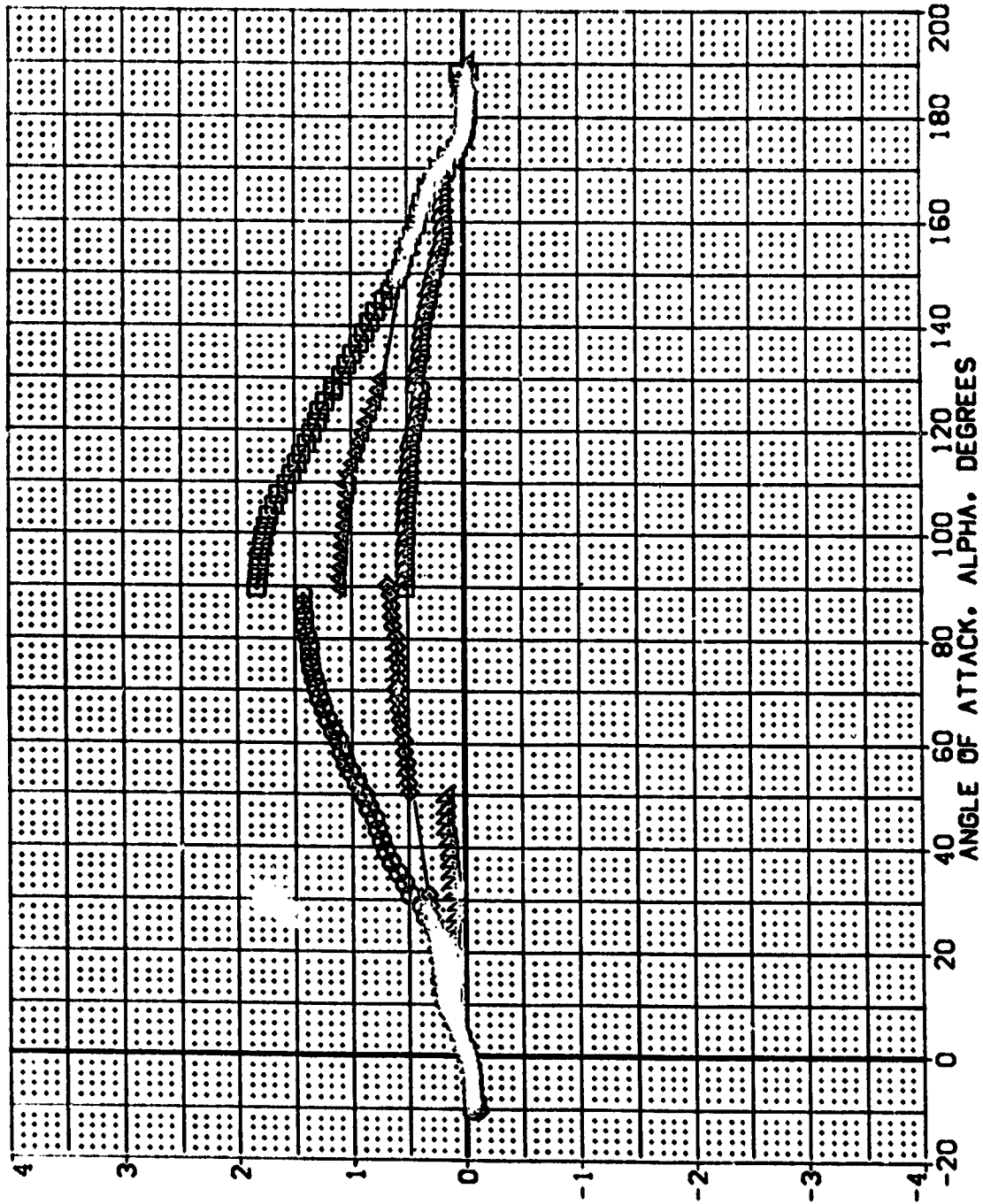


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 BREF 9000 IN IN
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 YMRP 0.0000 IN IN
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 SCALE 0.0074

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 MS C C 587 (FA4) TITAN III SRM (NBETP)
 MS C C 587 (FA4) TITAN III SRM (NBETP)
 MS C C 587 (FA4) TITAN III SRM (NBETP)
 MS C C 587 (FA4) TITAN III SRM (NBETP)



MISSILE AXIS SIDE FORCE COEFFICIENT, CYM

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(E)MACH = 3.48

PAGE 155

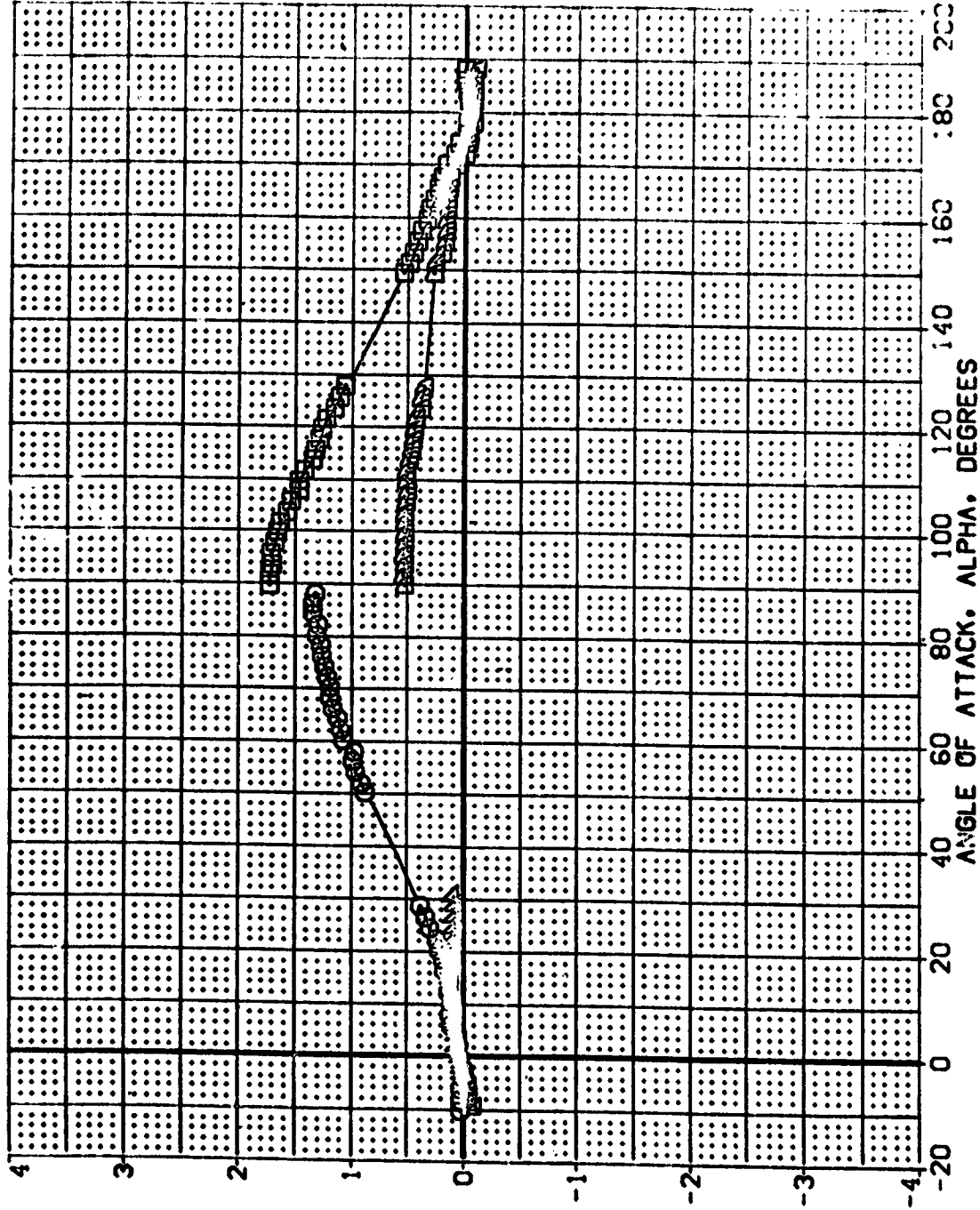
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MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 MSFC 587(FA4) TITAN III C SRM (NBETP)
 MSFC 587(FA4) TITAN III C SRM (NBETP)

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 .000 337.500
 .000 337.500
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REFERENCE INFORMATION
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 LREF 9000 IN.
 BREF 9000 IN.
 XMRP 4 6360 IN.
 YMRP 0.000 IN.
 ZMRP 0.000 IN.
 SCALE 0074

MISSILE AXIS SIDE FORCE COEFFICIENT, CYM



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96

PAGE :56

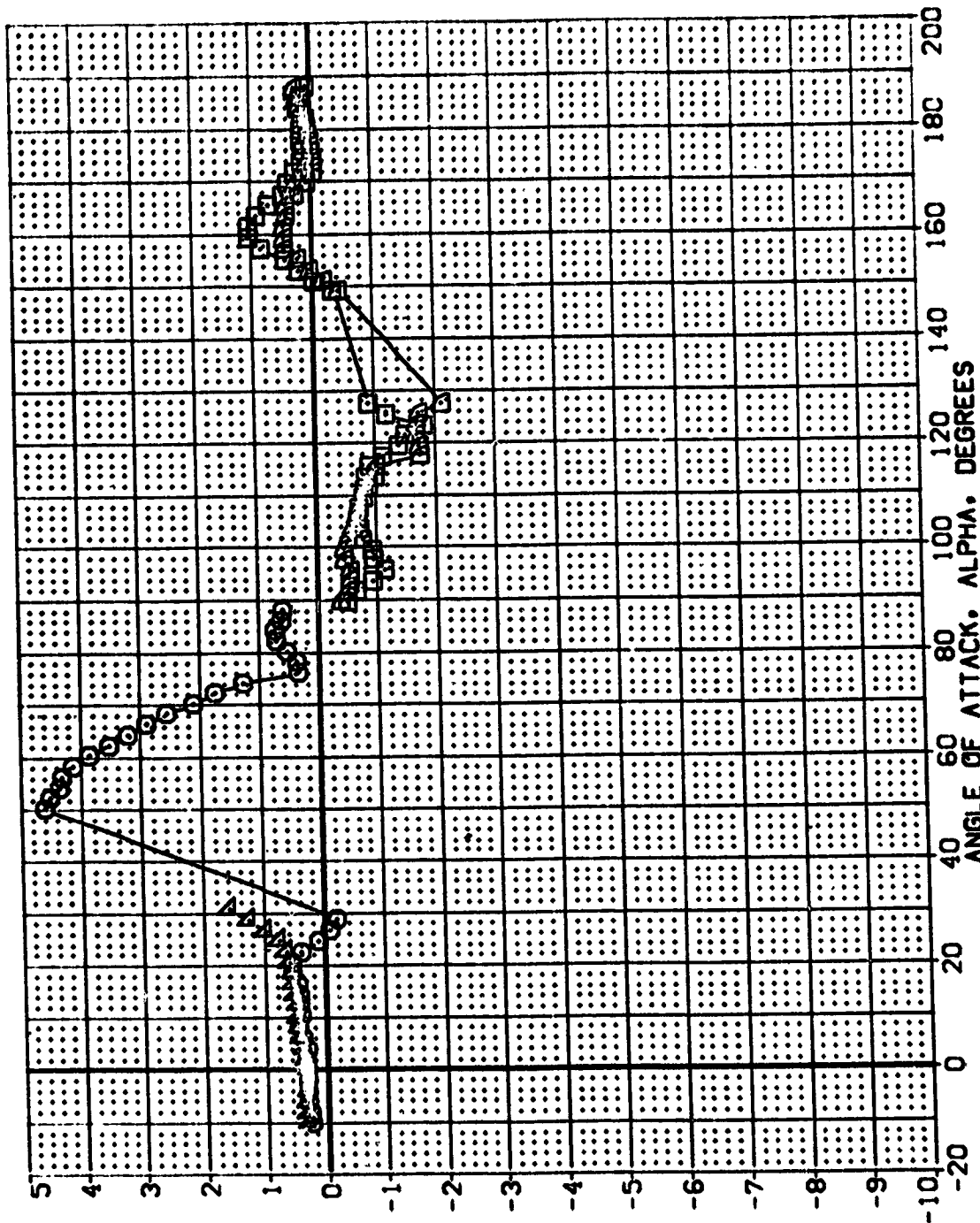


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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 XMRP 4.6330
 YMRP .0000
 ZMRP .0000
 SCALE .0074

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 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

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 [R57A06] MS-C 587(FA4) TITAN III C SRM (NBETP)
 [R57A07] DATA NOT AVAILABLE
 [R57A08] DATA NOT AVAILABLE
 [R57A09] MS-C 587(FA4) TITAN III C SRM (NBETP)
 [R57A10] MS-C 587(FA4) TITAN III C SRM (NBETP)



MISSILE AXIS WING MOMENT COEFFICIENT, C_{YM}

LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

PAGE 157

(A)MACH = .60

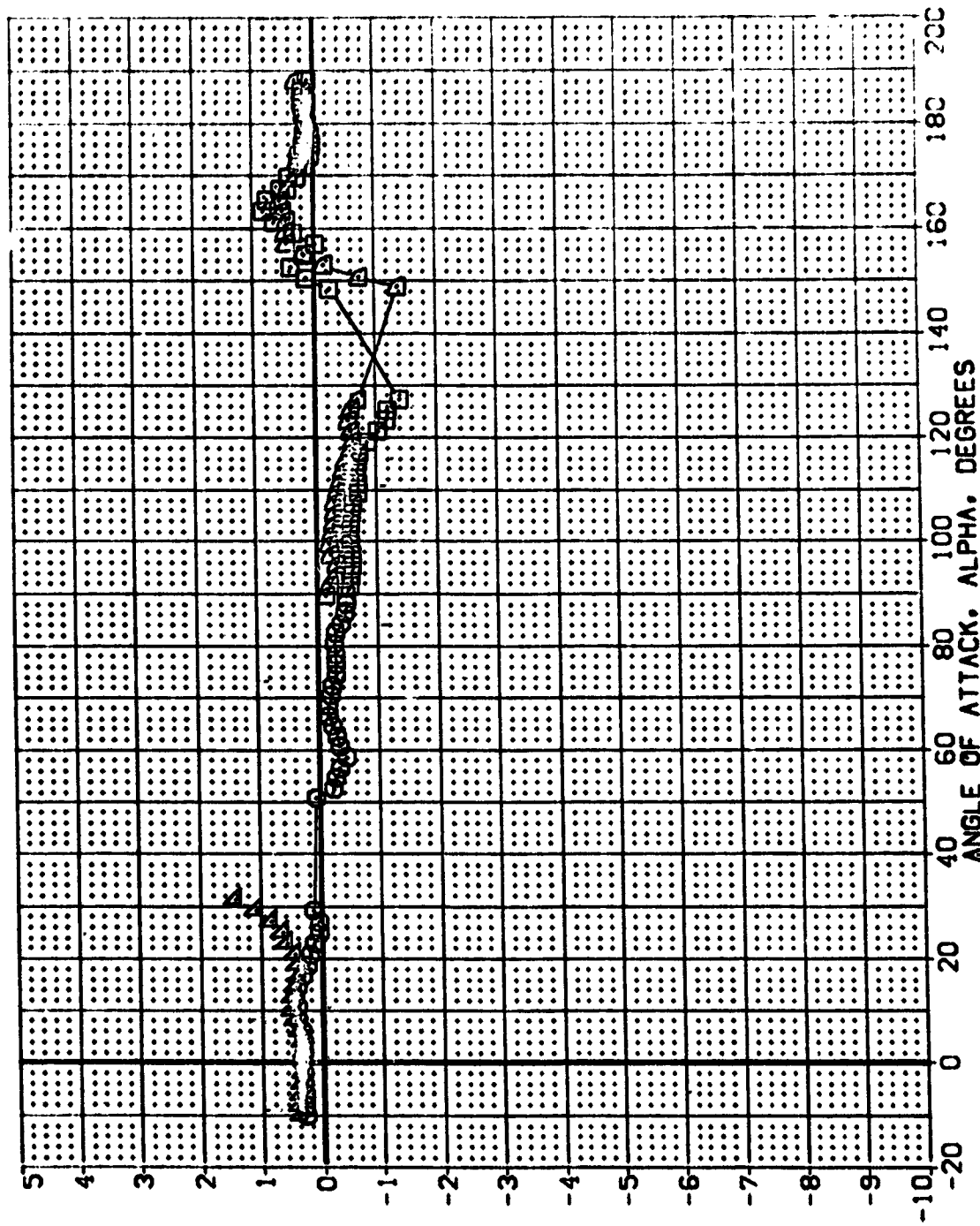
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 (P87A08)
 (P87A09)

CONFIGURATION DESCRIPTION
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 MSFC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
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 MSFC 587(FA4) TITAN III C SRM (NBETP)

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REFERENCE INFORMATION
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 XMRP 4.6330
 YMRP 0.0000
 ZMRP 0.0000
 SCALE 0.074

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(B)MACH = .90

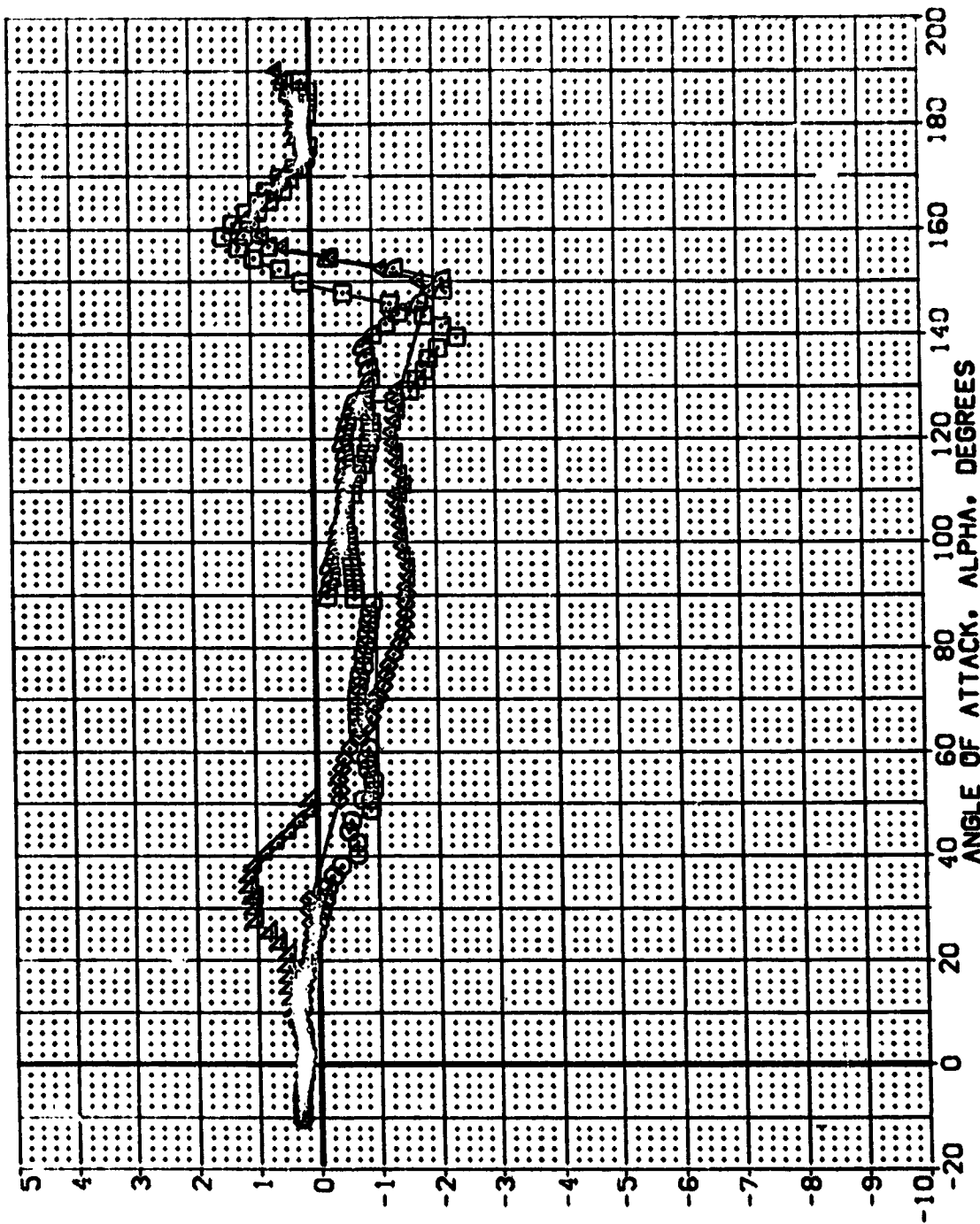


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION:
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 ZREF .0000
 SCALE .0074

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 .000 .000

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R57A04	TITAN	SRM (NBE TP)
R57A05	TITAN	SRM (NBE TP)
R57A06	TITAN	SRM (NBE TP)
R57A07	TITAN	SRM (NBE TP)
R57A08	TITAN	SRM (NBE TP)



MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YMN}

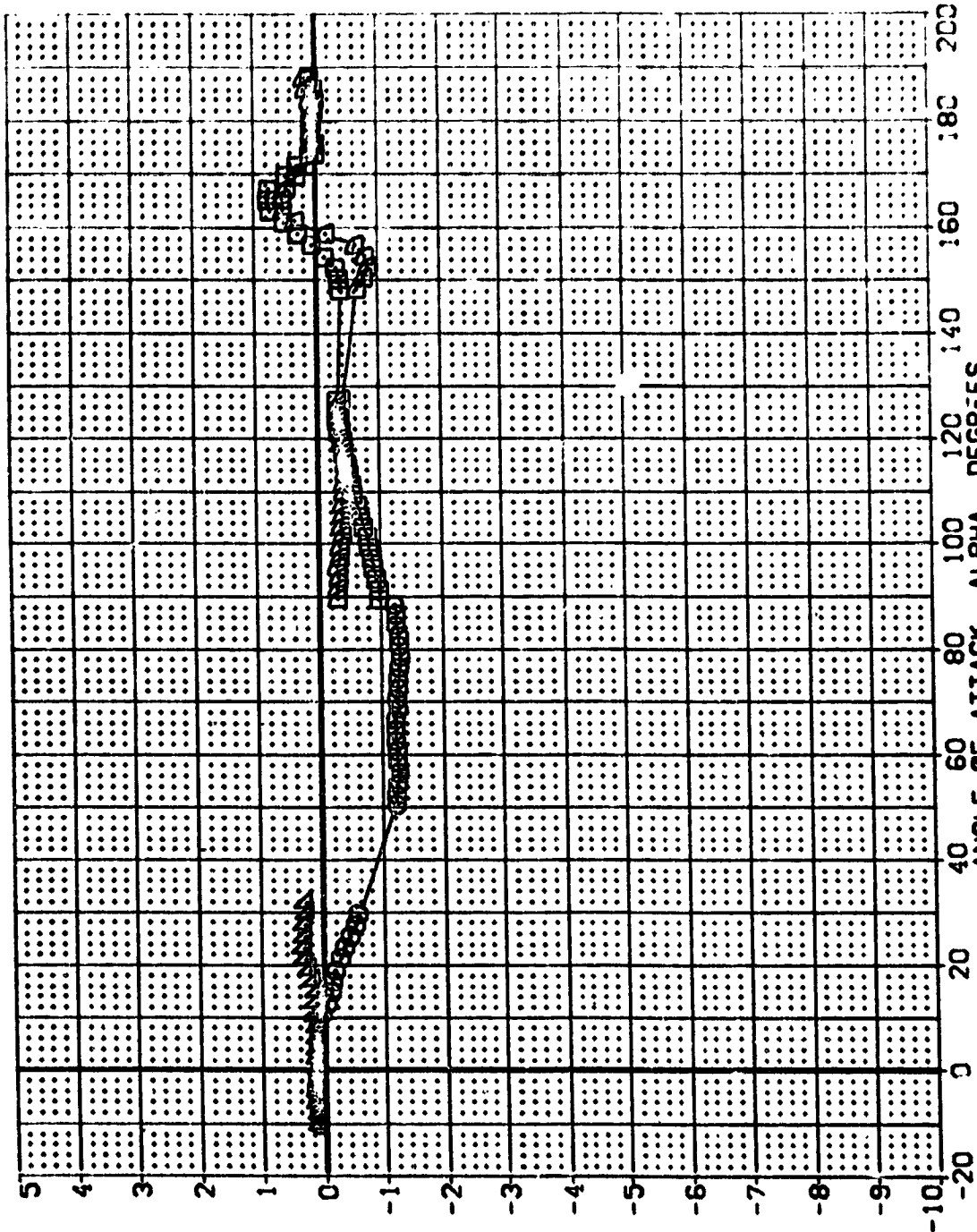
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBE TP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}

REFERENCE INFORMATION
 SREF 6360 SQ 12
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 BREF 5000
 XREF 4.633C
 YREF 5000
 ZREF 5000
 SCALE 1074

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 (R7A06) MSC 587(FA4) TITAN III C SRM (NBETP)
 (R7A07) DATA NOT AVAILABLE
 (R7A08) DATA NOT AVAILABLE
 (R7A09) MSC 587(FA4) TITAN III C SRM (NBETP)
 (R7A10) MSC 587(FA4) TITAN III C SRM (NBETP)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

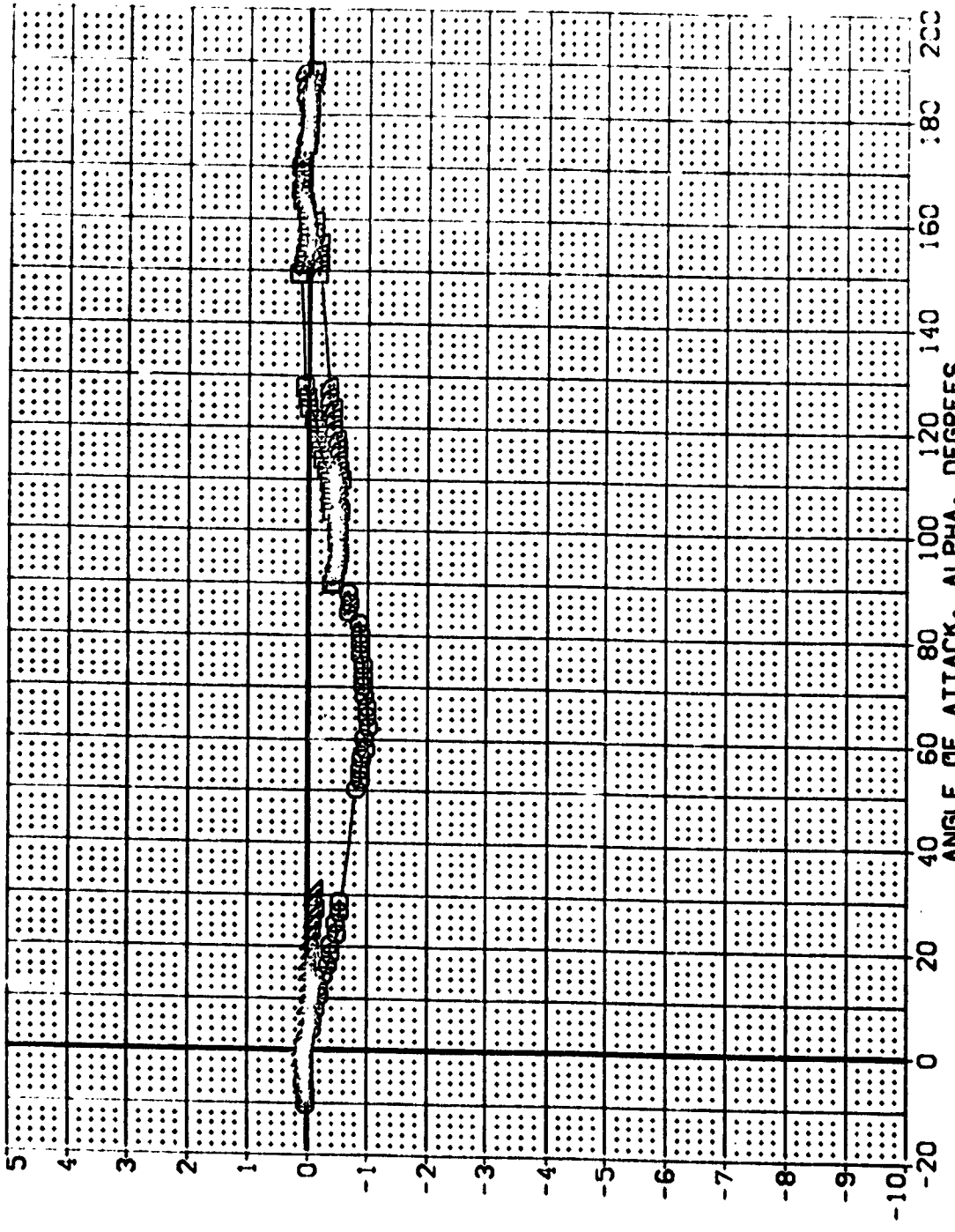


REFERENCE INFORMATION
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 YMRP 0000
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 SCALE 0074

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 2 587(A4) TITAN III C SRM (NBEIP)
 3 DATA NOT AVAILABLE
 4 DATA NOT AVAILABLE
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 6 587(A4) TITAN III C SRM (NBEIP)

MISSILE AXIS YAWING MOMENT COEFFICIENT, C_{YM}



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBEIP)

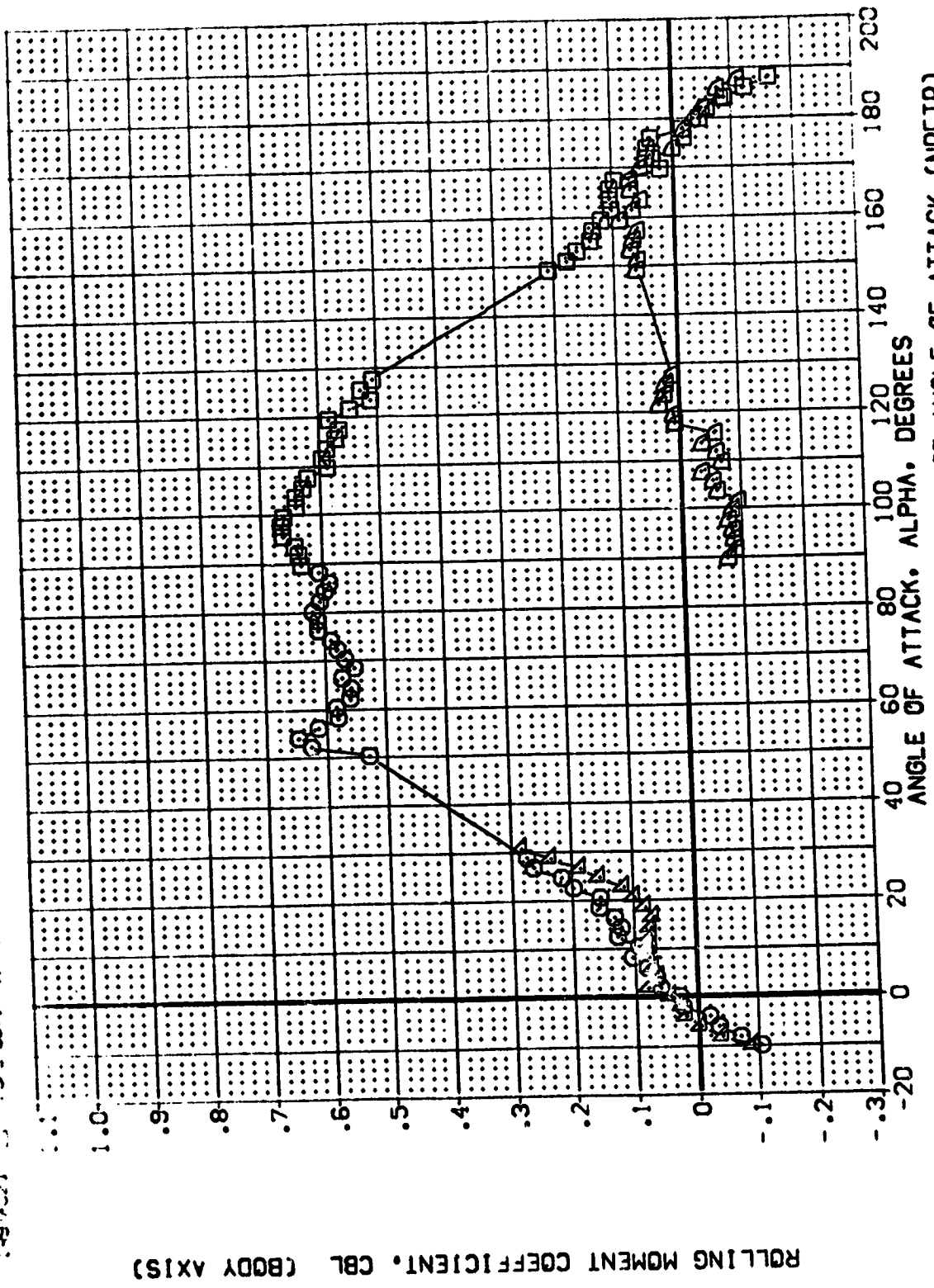


REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

REFERENCE INFORMATION
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 BREF .9000
 YMRP 4.6330
 ZMRP .0000
 SCALE .0074

BETA PHI
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 587(A1) TITAN C SRM (NBETP)
 587(A1) TITAN C SRM (NBETP)
 587(A1) TITAN C SRM (NBETP)
 587(A1) TITAN C SRM (NBETP)
 587(A1) TITAN C SRM (NBETP)



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

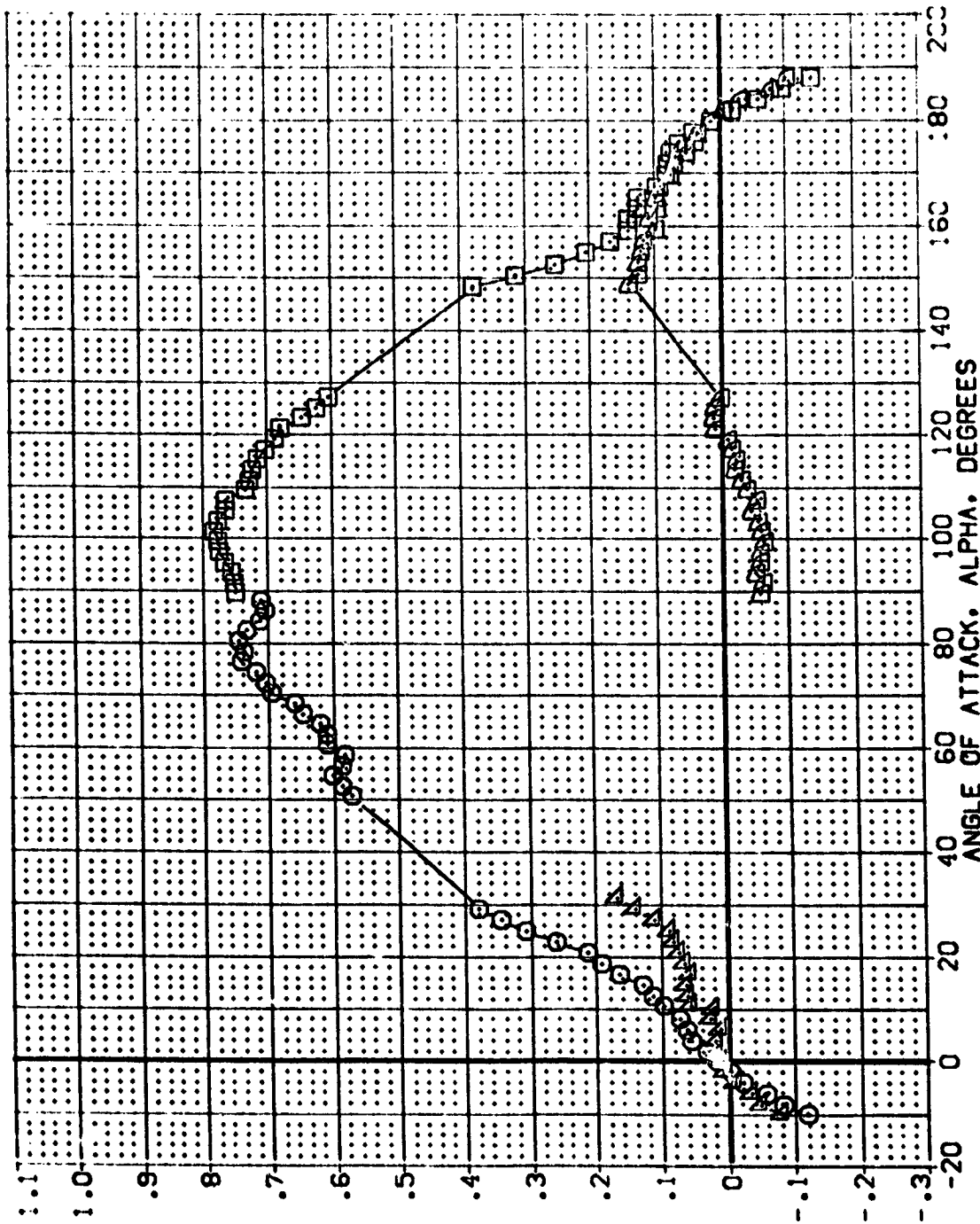
LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

REFERENCE INFORMATION
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 YMRP .6330
 ZMRP .0000
 SCALE .0074

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 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 :R7AC9] DATA NOT AVAILABLE
 :R7AC4] MSC 587(FA4) TITAN III C SRM (NBETP)
 :R7AC2] MSC 587(FA4) TITAN III C SRM (NBETP)

ROLLING MOMENT COEFFICIENT, CRL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

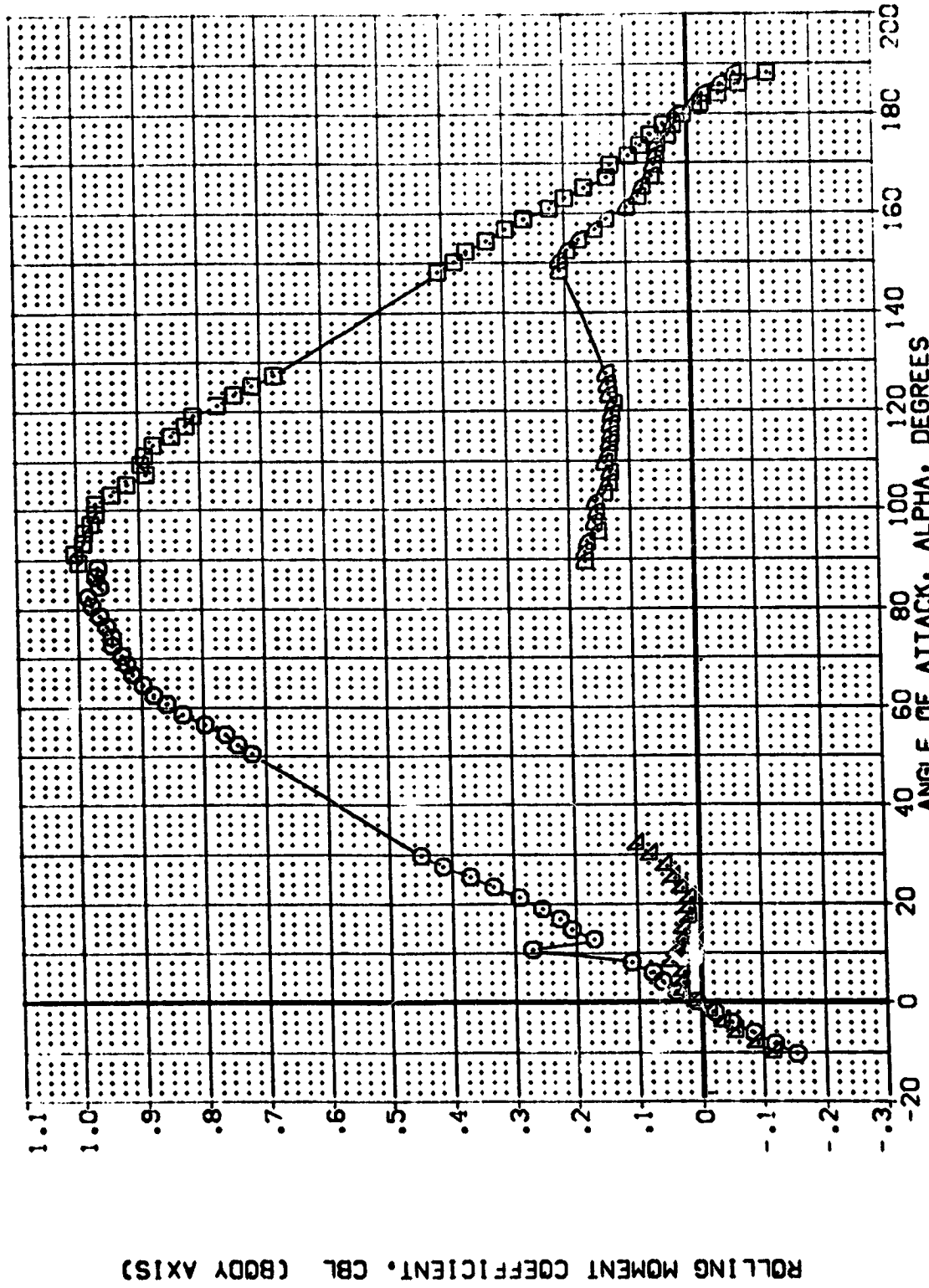




LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

PAGE 166

(C)MACH = 1.96



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

REFERENCE INFORMATION

SREF .6360 SO. IN
 LBREF .5000 IN.
 BRREF .5000 IN.
 4.6330 IN.
 YMRP .0000
 ZMRP .0000
 SCALE .0074

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 .000 337.500
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 .000 .000

CONFIGURATION DESCRIPTION

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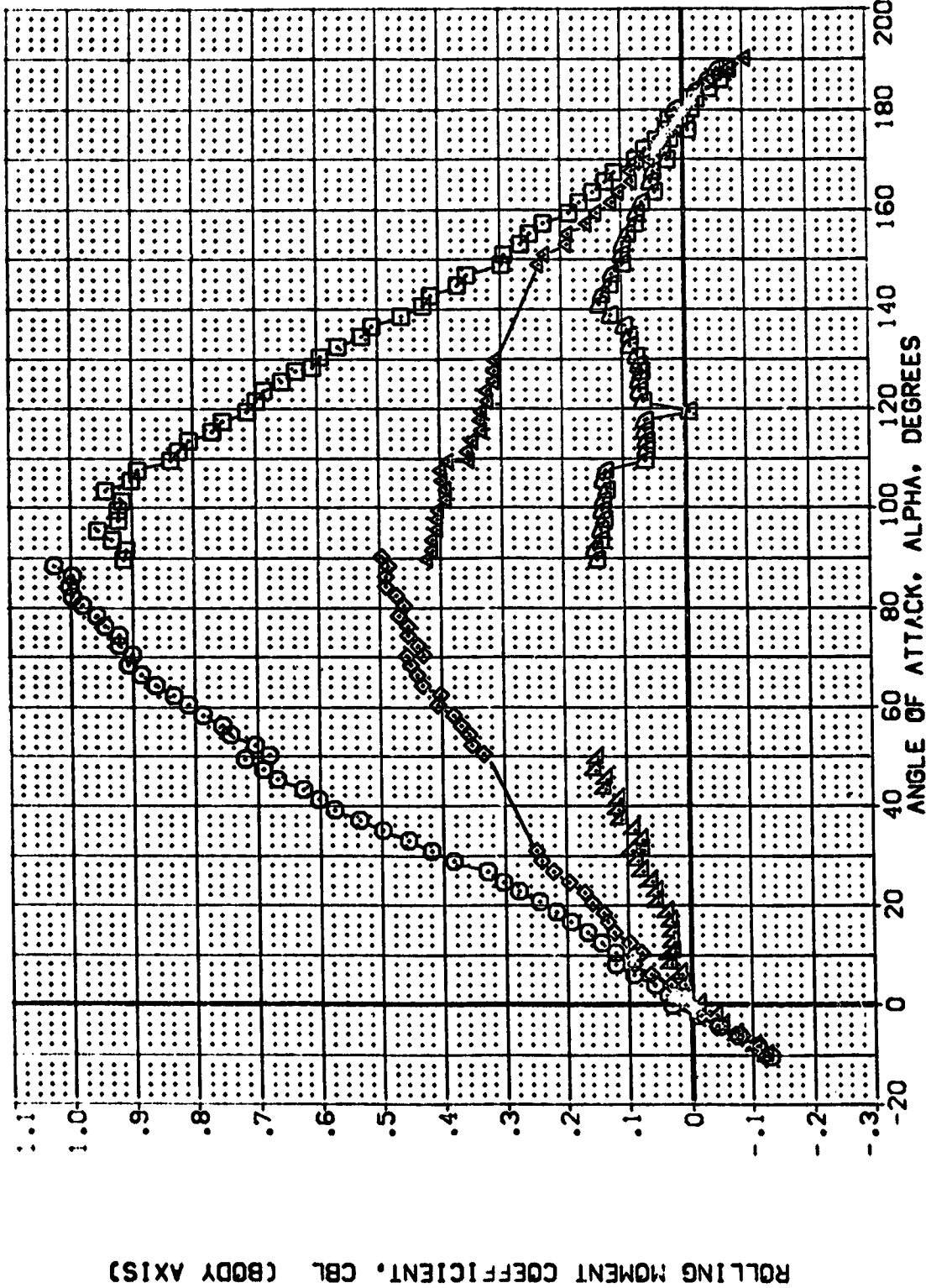
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REFERENCE INFORMATION
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 BREF .5000 IN.
 XMRP 4.6330 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE .0074

BETA PHI
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 .000 315.000
 .000 337.500
 .000 337.500
 .000 .000
 .000 .000

CONFIGURATION DESCRIPTION
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 S5C 587(A4) TITAN SRM (NBETP)
 S5C 587(A4) TITAN SRM (NBETP)
 S5C 587(A4) TITAN SRM (NBETP)
 S5C 587(A4) TITAN SRM (NBETP)
 S5C 587(A4) TITAN SRM (NBETP)

DATA SET SYMBOL
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 S5C 587(A4)
 S5C 587(A4)
 S5C 587(A4)
 S5C 587(A4)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

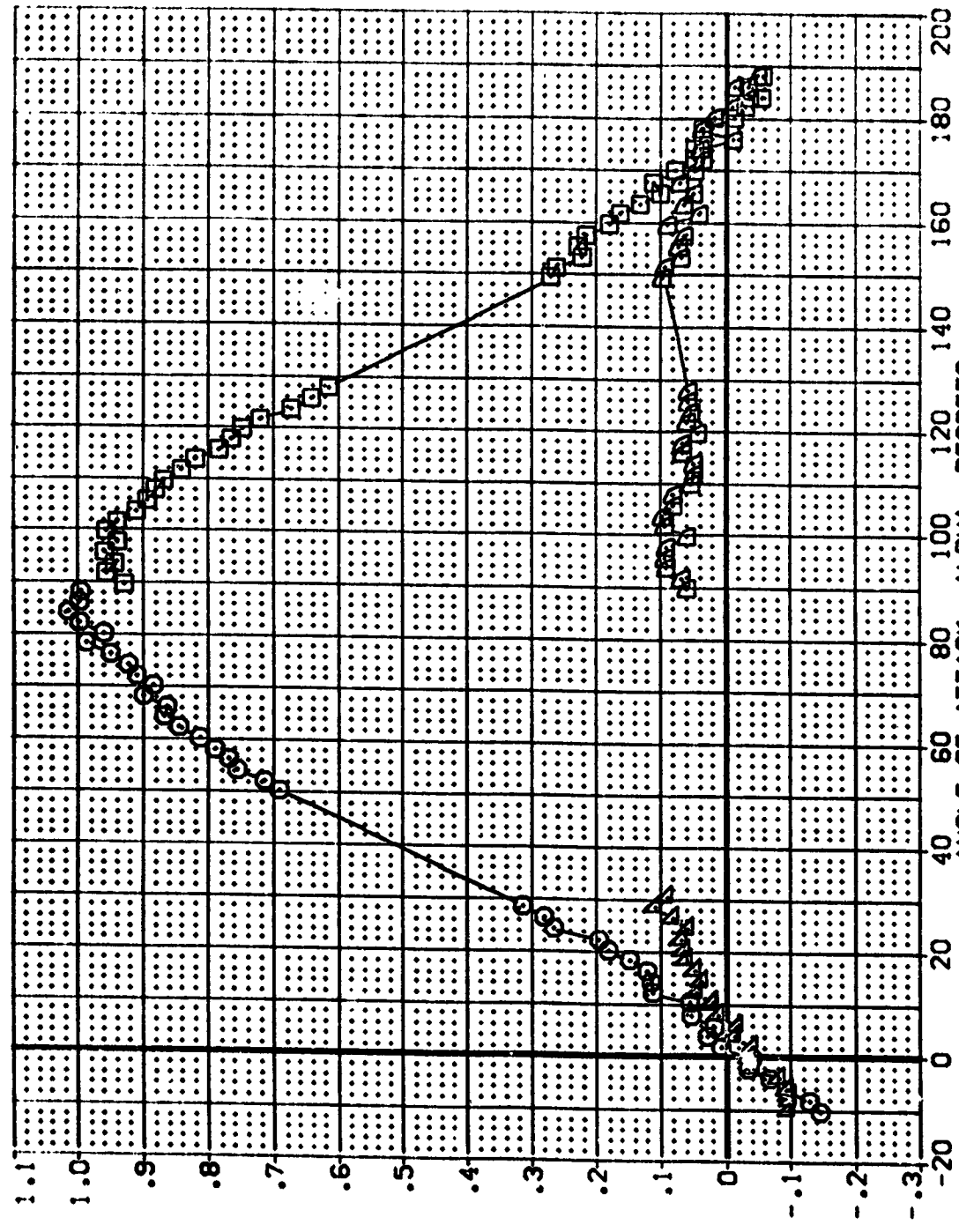
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CONFIGURATION DESCRIPTION
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 MSC 587(FA4) TITAN III C SRM (NBETP)
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
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 MSC 587(FA4) TITAN III C SRM (NBETP)

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REFERENCE INFORMATION
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 BREF .9000 IN
 XMRP 4.6330 IN
 YMRP .0000 IN
 ZMRP .0000 IN
 SCALE .0074

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



LATERAL STABILITY CHARACTERISTICS AS A FUNCTION OF ANGLE OF ATTACK (NBETP)

(F)MACH = 4.96



APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Services.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, NSFC TWT 587

DATE 11 JUL 74

(R97001) (23 APR 74)

NSFC 507 (FA4) TITAN III C SRM (MBETP)

REFERENCE DATA

REF = .5388 SR IN XMRP = 4.0330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9500 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 133/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C ₁ N	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.994	-10.010	-61810	-1.56500	-3.0060	.30280	-.09070	.61480	.09060	.32900	-.09060	-.52400
.994	-8.030	-44920	-1.29900	-.27910	.34480	-.04160	.61420	.07480	.29550	-.07480	-.33940
.994	-6.090	-32820	-1.06800	-.26040	.33200	-.00440	.56750	.07020	.23600	-.07020	-.51720
.994	-4.080	-20520	-.79680	-.23320	.30470	.01610	.57090	.06210	.16010	-.06210	-.50070
.994	-2.060	-10450	-.54300	-.22850	.26610	.02470	.55220	.06060	-.00940	-.06060	-.49130
.994	-.020	03660	-.23810	-.19940	.31830	.04260	.54410	.06160	1.46930	-.06160	-.48250
.994	1.990	15950	-.18830	-.19220	.35100	.07900	.55370	.06670	.50210	-.06670	-.48700
.994	4.000	24050	-.40440	-.18360	.37990	.06220	.56340	.07480	.43850	-.07480	-.48050
.994	6.030	36270	-.73320	-.17510	.42850	.07080	.57980	.08840	.40900	-.08840	-.49120
.994	8.040	50370	-.94070	-.12870	.44290	.07690	.58810	.10700	.41510	-.10700	-.48110
.994	9.960	64330	1.20330	-.08790	.45840	.07240	.60480	.11950	.41470	-.11950	-.48520
.994	-.020	01800	-.10630	-.21990	.38460	.03990	.52270	.06310	1.93440	-.06310	-.48950
.994	GRADIENT	.05727	.15551	.00672	.01168	.00707	-.00067	.00156	.05334	-.00156	-.00223

RUN NO. 134/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C ₁ N	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.899	-10.080	-59240	-1.67410	-.21400	.36780	-.08080	.79970	.08900	.29380	-.08900	.71060
.899	-8.130	-43970	-1.38060	-.19820	.41010	-.04880	.79150	.07690	.25410	-.07690	.71450
.899	-6.130	-28210	-1.08810	-.20990	.37480	-.03380	.77140	.06840	.16330	-.06840	.70290
.899	-4.080	-16280	-.76740	-.21040	.35060	-.00890	.75950	.06380	.09920	-.06380	.69470
.899	-2.050	-04450	-.58960	-.19800	.33980	.00450	.75440	.06060	-.69270	-.06060	.69370
.899	-.020	07320	-.18450	-.17590	.31410	.01240	.74260	.06640	.97050	-.06640	.67620
.899	2.000	20330	-.09330	-.19560	.30290	.01820	.73700	.06970	.59960	-.06970	.68200
.899	4.030	32170	-.40600	-.14580	.33390	.01890	.75530	.07540	.49170	-.07540	.67980
.899	6.080	45180	-.67370	-.12370	.37620	.01220	.76250	.08290	.46280	-.08290	.67960
.899	8.100	59720	-.97500	-.06520	.43810	.02660	.77640	.10190	.44480	-.10190	.67440
.899	10.050	74480	1.28320	-.02100	.50040	.02300	.76250	.11800	.43340	-.11800	.66360
.899	-.010	09570	-.19130	-.17440	.29080	.00370	.75810	.06740	.85140	-.06740	.69070
.899	GRADIENT	.06003	.14306	.00837	-.00342	.00347	-.00019	.00159	.10636	-.00159	-.00179

NSFC 507(744) TITAN III C SRM (NR7P)

(NR7-01) (23 APR 74)

REFERENCE DATA

REF : -0.360 IN XMRP = 4.8336 IN.
 LREF : -0.900 IN. YMRP = .0000 IN.
 SREF : -0.900 IN. ZMRP = .0000 IN.
 SCALE : .0074

BETA = .000 PHI = .000
 PARAMETRIC DATA

RUN NO. 135/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.199	-10.130	-70590	-1.77700	-30760	.24560	-.11160	1.19930	.20480	.33290	-.20480	-.99440
1.199	-8.190	-51320	-1.48210	-27610	.27480	-.07220	1.18340	.19390	.30220	-.19390	-.98940
1.199	-6.170	-34930	-1.09340	-24680	.23760	-.04010	1.16640	.17990	.29000	-.17990	-.98640
1.199	-4.100	-19900	-.72890	-20380	.23980	-.02100	1.14670	.17130	.17850	-.17130	-.97330
1.199	-2.090	-06266	-.49990	-17390	.20720	-.00440	1.12680	.16410	-.27630	-.16410	-.96270
1.199	-.610	09780	-.11720	-14410	.19000	.01450	1.11860	.16790	.60310	-.16790	-.95070
1.199	2.030	.25000	.24890	-.11940	.20070	.03900	1.13800	.18540	.82370	-.20610	-.95250
1.199	4.070	.39240	.52460	-.09350	.19750	.04290	1.15510	.20610	.48230	-.22410	-.94890
1.199	6.110	.55470	.82300	-.07610	.22980	.04370	1.16730	.22410	.46320	-.24240	-.93820
1.199	8.160	.71710	1.16550	-.06740	.30230	.04500	1.18060	.24240	.44580	-.24240	-.93820
1.199	10.130	.90580	1.53440	-.04840	.46320	.02880	1.19910	.26350	.43710	-.26350	-.93860
1.199	-.010	.11600	-.09290	-.13450	.20200	-.01430	1.12430	.16940	.75260	-.16940	-.95480
GRADIENT		.07274	.13723	.01343	-.00445	.00794	.00137	.00445	.06924	-.00445	-.00300

RUN NO. 128/ 1 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.998	-10.230	-89930	-2.06940	-16490	.08850	-.12090	.97810	.13390	.36020	-.13390	.84320
1.998	-8.230	-64690	-1.64260	-15360	.09730	-.09060	.95920	.12170	.33010	-.12170	.83740
1.998	-6.210	-43390	-1.23120	-14810	.10120	-.06040	.91950	.10410	.29230	-.10410	.81530
1.998	-4.130	-27250	-.85570	-11950	.11270	-.03910	.91610	.10150	.25410	-.10150	.81490
1.998	-2.070	-11210	-.44570	-.09470	.09140	-.01850	.87760	.09420	.14850	-.09420	.78340
1.998	-.020	.03070	-.06680	-.06080	.09040	.00520	.86370	.09320	.92660	-.09320	.77250
1.998	2.030	.19090	.32400	-.03460	.10630	.02640	.87490	.09400	.43670	-.09400	.78010
1.998	4.080	.33690	.65140	-.01660	.10500	.02640	.88460	.10370	.40680	-.10370	.76080
1.998	6.140	.52100	1.00520	.02300	.11000	.02390	.87810	.11320	.40730	-.11320	.76480
1.998	8.210	.73240	1.43590	.05290	.11350	.04920	.88940	.11500	.40340	-.11500	.77440
1.976	10.200	.97400	1.89380	.08350	.13810	.03730	.90910	.12570	.40540	-.12570	.78330
1.998	-.010	.03910	-.04240	-.05740	-.09010	-.00300	.84290	.08960	.78680	-.08960	.73260
GRADIENT		.07416	.18441	.01296	-.00003	.00879	-.00315	.00024	.02894	-.00024	-.00340



DATE 11 JUN 74

TABULATED SOURCE DATA, NSFC TWT 507

(897001) (23 APR 74)

PAGE 3

NSFC 507 (FA4) TITAN III C SRN (MDETP)

REFERENCE DATA

BREF = .0360 IN. IN YMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = .000

RUN NO. 1 / 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.200	-1.01230	-1.07820	-.12260	-.12000	-.12450	.00970	.05300	-.41670	-.05300	.75900
3.480	-8.300	-.74740	-1.32620	-.09180	-.05620	-.10330	.78700	.05330	.39300	-.05330	.73450
3.480	-6.230	-.50600	-1.19090	-.07340	-.03430	-.07650	.76300	.04940	.35760	-.04940	.71540
3.480	-4.220	-.32620	-.84760	-.05730	-.03910	-.05400	.73900	.04370	.32460	-.04370	.69330
3.480	-2.100	-.17320	-.50870	-.04000	-.03100	-.04280	.71930	.04200	.28420	-.04200	.67720
3.480	-.150	-.04940	-.14930	-.01930	-.01620	-.01460	.70760	.04050	.26690	-.04050	.66710
3.480	1.800	.12710	.23640	.01430	.03590	.00380	.71490	.04470	.41610	-.04470	.67020
3.480	3.930	.26000	.51400	.03610	.05640	.00930	.71630	.04920	.38910	-.04920	.66910
3.480	5.950	.41700	.86990	.06370	.09660	.01300	.72470	.05390	.36140	-.05390	.67000
3.480	7.990	.61940	1.23230	.09270	.07510	.03160	.73960	.05850	.39560	-.05850	.69130
3.480	9.250	.84940	1.59410	.08900	-.14200	.03290	.74610	.06640	.41400	-.06640	.67960
3.480	GRADIENT	.00180	-.12390	-.01960	-.03760	-.00910	.70900	.03970	9.30360	-.03970	.66920
3.480		.07315	-.17360	.01222	-.00076	.00690	-.00225	.00048	.01282	-.00048	-.00272

RUN NO. 2 / 0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
4.950	-10.140	-.90140	-1.38330	-.11680	-.03020	-.09660	.73100	.02320	-.42920	-.02320	.70640
4.950	-8.200	-.67760	-1.32150	-.08970	-.02660	-.10050	.70160	.02640	.40460	-.02640	.67920
4.950	-6.170	-.50790	-1.06890	-.07720	-.03460	-.09520	.66710	.02610	.38510	-.02610	.64090
4.950	-4.170	-.33910	-.75430	-.05150	-.03330	-.08300	.63090	.02430	.36990	-.02430	.60650
4.950	-2.130	-.17230	-.44180	-.03360	-.03430	-.04380	.63230	.02430	.32720	-.02430	.60820
4.950	-.140	.02620	-.10530	-.01560	.04140	-.03720	.61450	.02230	1.15990	-.02230	.59210
4.950	1.870	.10900	.20900	.05260	-.01010	-.03990	.61440	.02350	.40890	-.02350	.59080
4.950	3.900	.22450	.49450	.04840	.07770	-.01310	.60980	.02350	.37640	-.02350	.58620
4.950	5.890	.39330	.79820	.07420	-.07570	-.01710	.60730	.02450	.39430	-.02450	.58270
4.950	7.910	.59500	1.16720	.05840	-.04410	.01610	.62510	.02700	.40320	-.02700	.59600
4.950	9.890	.76560	1.42250	.04940	-.09990	.02170	.65090	.03010	.41630	-.03010	.62680
4.950	GRADIENT	.02570	-.13640	-.01990	.02710	-.05510	.60600	.02350	1.32090	-.02350	.58230
4.950		.06996	.15316	.01235	-.00663	.00713	-.00299	-.00012	.00485	-.00012	-.00268

NSFC 587 (744) TITAN III C 30N (MDETP)

(R97082) (23 APR 74)

REFERENCE DATA

DRIF = .6308 IN INRP = 4.6338 IN.
 LREF = .9098 IN. TRIP = .0000 IN.
 DRIF = .9098 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000
 KCP/L = .000

RUN NO. 132/ 6 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLMN	CTN	CTYN	CBL	CA	CAB	KCP/L	CPB1	CAF
.998	10.520	.89590	1.30340	-.05810	.45190	.07900	.60910	.09260	.41430	-.09260	.51030
.998	12.430	.80550	1.54020	.02060	.46680	.07330	.60950	.09940	.49950	-.09940	.51000
.998	14.430	.99510	1.89048	.09810	.50770	.07270	.61680	.11050	.41270	-.11050	.50640
.998	16.480	1.18680	2.21260	.13650	.53490	.06930	.62260	.12980	.41550	-.12980	.49880
.998	18.500	1.39050	2.49400	.22430	.54140	.06780	.61600	.13910	.42280	-.13910	.47690
.998	20.530	1.63810	2.89690	.33360	.60920	.09690	.61860	.16000	.42770	-.16000	.45910
.998	22.560	1.93790	3.28210	.49090	.64910	.11430	.60160	.17220	.43640	-.17220	.42950
.998	24.600	2.28170	3.63200	.69180	.79070	.15380	.57870	.18500	.44820	-.18500	.39360
.998	26.630	2.64010	4.02900	1.18320	.97590	.18600	.56200	.20590	.45830	-.20590	.37600
.998	28.670	3.00360	4.41800	1.43830	1.24630	.23390	.58300	.23180	.46530	-.23180	.35110
.998	30.630	3.41450	4.84480	1.68620	1.57980	.28390	.57650	.26100	.47190	-.26100	.31340
.998	20.530	1.81700	2.83658	.38490	.63090	.11000	.62110	.14930	.42950	-.14930	.47180
GRADIENT		.13321	.17690	.09764	.04818	.00992	-.00214	.00814	.00328	-.00814	-.01029

RUN NO. 131/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLMN	CTN	CTYN	CBL	CA	CAB	KCP/L	CPB1	CAF
.998	10.520	.89860	1.27760	.03110	.46860	.05630	.76670	.09160	.42000	-.09160	.67510
.998	12.420	.87010	1.58980	.09940	.49680	.05900	.77190	.10520	.42020	-.10520	.66660
.998	14.540	1.05440	1.95070	.06070	.44830	.06280	.76280	.12380	.41730	-.12380	.63880
.998	16.610	1.27540	2.40910	-.04340	.38250	.05680	.75350	.14930	.41240	-.14930	.62613
.998	18.690	1.52500	2.88020	-.05230	.39250	.06500	.75240	.16490	.41240	-.16490	.58740
.998	20.730	1.81330	3.41740	-.00200	.45410	.07510	.72420	.17810	.41300	-.17810	.54610
.998	22.790	2.12220	3.98050	.06770	.58130	.09100	.70370	.17840	.41410	-.17840	.52520
.998	24.880	2.43390	4.69570	.19070	.64070	.08740	.66930	.17940	.41320	-.17940	.48990
.998	26.990	2.97640	5.57460	.52600	.62490	.11110	.64930	.16610	.41440	-.16610	.46330
.998	29.080	3.42550	6.30590	.79750	1.07730	.14020	.62830	.20010	.41650	-.20010	.42610
.998	31.090	3.91640	7.05410	.97370	1.40710	.16730	.61960	.21850	.42430	-.21850	.45110
.998	20.740	1.83800	3.47340	-.10760	.41050	.05970	.74360	.17260	.41230	-.17260	.57155
GRADIENT		.19501	.26927	.04209	.03915	.00487	-.00830	.00561	.00004	-.00561	-.01391



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PARAMETRIC DATA

BETA = .000
 PHI = .500

REFERENCE DATA

REF 1 .0380 IN XMP = 4.0330 IN.
 REF 2 .0000 IN. YMP = .0000 IN.
 REF 3 .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

RUN NO. 138/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.202	10.600	.80390	1.56970	-.04120	.35920	.03110	1.16140	.21900	.42300	-.21900	-.94249
1.202	12.620	1.07050	1.97120	.01390	.42940	.04070	1.17453	.23050	.41840	-.23050	-.93580
1.202	14.870	1.33370	2.45320	.05410	.46710	.04060	1.18230	.23280	.42090	-.23280	-.92970
1.202	16.770	1.61940	2.98990	.07680	.47810	.01760	1.17690	.27190	.41940	-.27190	-.90500
1.202	18.850	1.94960	3.51770	.16480	.46190	.01070	1.16420	.17680	.42310	-.27680	-.88730
1.202	20.070	2.30980	4.24330	.31000	.46720	.03720	1.15430	.29740	.42770	-.28770	-.86680
1.202	23.230	3.43940	5.93710	.55000	.48590	.03590	1.14240	.29130	.42700	-.29130	-.83100
1.202	27.390	4.03770	6.86090	.63020	1.00100	.04690	1.13220	.31010	.43350	-.31010	-.82200
1.202	29.550	4.62440	7.67680	.59590	1.02620	.08160	1.04070	.33050	.43750	-.31940	-.79180
1.202	31.500	5.17440	8.42780	.48490	1.00890	.09260	1.07030	.34310	.44590	-.34310	-.72740
1.202	20.970	2.38950	4.31350	.32020	.46910	.02560	1.12060	.26510	.42260	-.26510	-.83550
GRADIENT		.20919	.33595	.03398	.03457	.06237	-.00496	.00592	.00122	-.00332	-.01039

RUN NO. 129/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.964	10.730	.96090	1.86930	.07980	.13610	.03290	.90930	.13360	.40520	-.13360	.77540
1.964	12.710	1.23110	2.34510	.11980	.12540	.02540	.92010	.14630	.41420	-.14630	.77370
1.964	14.790	1.59430	2.86600	.11980	.10940	.02370	.94110	.15310	.42400	-.15310	.76800
1.964	16.910	1.97960	3.38050	.06960	.14450	.01390	.93930	.16120	.43530	-.16120	.77810
1.964	19.010	2.41320	3.89990	.06090	.22910	.01520	.94680	.16860	.44710	-.16860	.77810
1.964	21.120	2.84500	.35840	.07030	.28520	.01320	.96730	.17640	.45760	-.17640	.78880
1.964	23.240	3.33990	4.91670	.11480	.31610	.02580	.99280	.18600	.46320	-.18600	.80670
1.964	25.340	3.78490	5.30930	.24660	.29610	.03980	1.00610	.19810	.47390	-.19810	.81000
1.964	27.440	4.23990	5.70600	.22460	.29460	.05090	1.01780	.20330	.48190	-.20330	.81430
1.964	29.540	4.71400	6.04990	.27910	.24620	.07310	1.02710	.21480	.48900	-.21480	.79230
1.964	31.500	5.22980	6.48070	.30000	.27220	.09670	1.02350	.23260	.49460	-.23260	.78090
1.964	21.110	2.67620	4.35020	.07960	.27460	.01960	.95610	.17270	.46010	-.17270	.78340
GRADIENT		.20700	.22232	.01016	.00905	.08285	.06576	.00433	.00440	-.00433	.00143

NSFC 507 (FAA) TITAN III C. 30M (MOCETP)

(187002) (25 APR 74)

REFERENCE DATA

SHEP = .0300 IN XMP = 4.6330 IN.
 LSEP = .0000 IN. YMP = .0000 IN.
 BSEP = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 4/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYM	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	10.480	.91260	1.88290	.09000	-.10250	.02440	.06950	.78240	.06950	-.41810	-.06950	.89280
3.480	12.450	1.19350	2.06790	.08810	-.08970	.02630	.07050	.76790	.07050	-.43010	-.07050	.89730
3.480	14.500	1.46560	2.45690	.06150	-.09030	.02800	.07110	.77770	.07110	-.43990	-.07110	.70850
3.480	16.550	1.70600	2.83070	.06630	-.08900	.02890	.07200	.79640	.07200	-.44730	-.07200	.72430
3.480	18.600	2.07520	3.15570	.07110	-.12950	.03570	.07470	.81360	.07470	-.45900	-.07470	.73890
3.480	20.650	2.41730	3.48550	.10150	-.15160	.05170	.07460	.82110	.07460	-.46900	-.07460	.74650
3.480	22.730	2.79970	3.81980	.10150	-.16760	.05060	.07750	.84240	.07750	-.47900	-.07750	.76480
3.480	24.770	3.18390	4.14610	.09820	-.16990	.04070	.07640	.86110	.07640	-.48670	-.07640	.78470
3.480	26.810	3.58190	4.46600	.09820	-.18400	.07450	.07320	.87630	.07320	-.49290	-.07320	.80310
3.480	28.890	4.02840	4.81070	.09190	-.23260	.04270	.07340	.89760	.07340	-.50300	-.07340	.82410
3.480	30.870	4.43600	5.16030	.09830	-.24480	.09230	.07310	.91290	.07310	-.50420	-.07310	.82980
3.480	20.850	2.41760	3.48490	.09590	-.12920	.05470	.07470	.82980	.07470	-.46910	-.07470	.75310
GRADIENT		.17270	.16720	-.00124	-.00764	.00350	.00021	.00766	.00021	.00431	-.00021	.00748

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

MACH	ALPHA	CMW	CLMW	CYM	CYM	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	20.390	2.18170	2.97320	.07940	-.11630	.03500	.03110	.76910	.03110	-.47740	-.03110	.73800
4.959	10.350	.78400	1.42120	.06350	-.08960	.02070	.03160	.67350	.03160	-.41600	-.03160	.64390
4.959	12.310	1.02140	1.73990	.04220	-.09350	.04320	.03010	.60890	.03010	-.43590	-.03010	.65880
4.959	14.320	1.22120	2.07660	.06050	-.08060	.03790	.03210	.71420	.03210	-.43630	-.03210	.68290
4.959	16.340	1.50730	2.38440	.06600	-.07620	.04640	.03290	.72850	.03290	-.45130	-.03290	.69360
4.959	18.360	1.79200	2.63240	.07910	-.11730	.05970	.03230	.74400	.03230	-.46360	-.03230	.71160
4.959	20.380	2.13490	2.89570	.06670	-.09750	.06370	.03130	.77260	.03130	-.48020	-.03130	.74140
4.959	22.430	2.53400	3.19170	.06670	-.13090	.06940	.02960	.81020	.02960	-.49210	-.02960	.76050
4.959	24.430	2.93260	3.48210	.06740	-.16290	.05670	.02780	.83100	.02780	-.50210	-.02780	.80310
4.959	26.440	3.33200	3.73350	.06780	-.19660	.06090	.02330	.85330	.02330	-.50970	-.02330	.82860
4.959	28.430	3.78840	4.13900	.06870	-.18900	.10850	.02330	.89290	.02330	-.51320	-.02330	.86530
4.959	30.440	4.18970	4.53260	.08240	-.17600	.06950	.02180	.89220	.02180	-.51440	-.02180	.87040
GRADIENT		.17162	.14805	-.00046	-.00570	.00341	-.00049	.01167	-.00049	.00318	-.00049	.01217



TABULATED SOURCE DATA, MSFC TWT 507

(R97003) (23 APR 74)

MSFC 987 (14) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = .000
 REF = .63E-08 IN TMRP = 4.6330 IN.
 LREF = .90E-08 IN. TMRP = .0000 IN.
 BREF = .90E-08 IN. ZMRP = .0000 IN.
 SCALE = .0074

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.195	31.770	5.16820	9.39880	-46900	1.06140	.09390	1.03990	.33990	.44380	-.33990	.70030
1.195	33.770	5.70300	9.09420	-16790	1.10730	.04690	1.02420	.36390	.44970	-.36390	.66020
1.195	35.900	6.33600	9.73680	-.06290	1.09720	.03710	1.00630	.39190	.45710	-.39190	.61440
1.195	38.040	6.98890	10.23760	-.26980	1.02860	.01960	.97030	.41270	.46300	-.41270	.53770
1.195	40.180	7.82800	10.67440	-.41930	.93470	.01730	.93090	.43630	.47110	-.43630	.49260
1.195	42.310	8.22420	11.49630	-.42690	.85020	.02460	.86590	.45320	.47450	-.45320	.43080
1.195	44.430	8.77730	12.06630	-.32870	.49330	.03330	.62090	.42900	.47750	-.42500	.39390
1.195	46.540	9.29800	12.69360	-.28870	.29080	.03110	.74470	.41290	.47870	-.41290	.33180
1.195	48.620	9.79810	13.24070	-.23030	.06390	.04420	.69120	.43660	.48050	-.43660	.29490
1.195	50.730	10.17310	13.90610	-.23360	.09500	.04130	.63370	.48050	.47850	-.48050	.13310
1.195	52.710	10.29510	14.47810	-.22860	-.01240	.02630	.60340	.66600	.47350	-.66600	-.06260
1.195	42.310	8.23440	11.47370	-.42720	.55690	.02510	.88700	.44260	.47310	-.44260	.44440
1.195	GRADIENT	.25735	.26507	-.02396	-.08210	-.00140	-.02263	.00953	.00155	-.00953	-.03216

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	30.930	4.49850	5.17990	.06950	-.16970	.07160	.92790	.06900	.50370	-.06900	.65800
3.480	32.930	4.90500	5.55640	.08410	-.24160	.07470	.94040	.06310	.50810	-.06310	.67730
3.480	34.000	5.35100	5.97670	.09000	-.29440	.08790	.94740	.05910	.51010	-.05910	.68620
3.480	37.060	5.77700	6.37510	.10200	-.26270	.10790	.94580	.05490	.51160	-.05490	.69090
3.480	39.130	6.22970	6.76660	.10780	-.30280	.11150	.95030	.05280	.51400	-.05280	.69740
3.480	41.150	6.66200	7.14670	.12060	-.30970	.10960	.94970	.05170	.51570	-.05170	.69800
3.480	43.270	7.14920	7.55700	.14000	-.30620	.13360	.94500	.04780	.51760	-.04780	.69710
3.480	45.330	7.37790	7.88930	.14600	-.33770	.13060	.91930	.03560	.52000	-.03560	.68370
3.480	47.370	8.02490	8.24820	.14090	-.35230	.14930	.90930	.02740	.52140	-.02770	.68160
3.480	49.450	8.45770	8.60340	.14720	-.37730	.14680	.87380	.02080	.52270	-.02080	.67400
3.480	51.430	8.85300	8.90280	.14710	-.42110	.16600	.86300	.01810	.52420	-.01810	.64480
3.480	41.190	6.66310	7.12140	.11480	-.30130	.13720	.95250	.05030	.51620	-.05030	.90210
3.480	GRADIENT	.21443	.18285	.00369	-.00948	.00414	-.00329	-.00250	.00091	.00250	-.00079

NSFC 987 (744) TITAN III C 3RM (NSC7P)

(8207008) (23 APR 74)

REFERENCE DATA

SREF = .6300 30. IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .008 PHI = .000

RUN NO. 243/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CP81	CAF
.000	109.020	6.94670	-1.1450	-23020	-74020	-03610	-21330	.00000	.65410	.00000	-21330
.000	107.710	7.01930	26910	-23470	-71160	-03490	-14660	.00000	.64660	.00000	-14660
.000	105.720	7.19030	19440	-27400	-65860	-05240	-06340	.00000	.63920	.00000	-06340
.000	103.730	7.21930	1.13120	-31320	-57960	-06000	01840	.00000	.63130	.00000	01840
.000	101.740	7.29030	1.64920	-38270	-49990	-09370	.09750	.00000	.62280	.00000	.09750
.000	99.750	7.32940	2.17790	-44300	-44990	-08360	.18070	.00000	.61390	.00000	.18070
.000	97.760	7.36970	2.6362E	-46860	-40110	-07720	.29140	.00000	.60620	.00000	.29140
.000	95.770	7.40710	3.02350	-46340	-33380	-06370	.39557	.00000	.59980	.00000	.39550
.000	93.780	7.44000	3.41920	-43840	-24030	-08480	.49040	.00000	.59340	.00000	.49040
.000	91.790	7.45890	3.75080	-39640	-49590	-08600	.56790	.00000	.58780	.00000	.56790
.000	89.810	7.41900	4.19210	-42490	-37670	-07410	.52990	.00000	.57990	.00000	.52990
.000	99.750	7.33010	2.15560	-43150	-48650	-06290	.17960	.00000	.61430	.00000	.17960
GRADIENT			-22252	.01130	-01402	.00240	-.04214	.00000	.00370	.00000	-.04214

RUN NO. 244/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CP81	CAF
.902	109.450	9.10190	1.74220	.12250	-.26970	-.03160	-.19650	.00000	.62720	.00000	-.19650
.902	107.540	9.23630	2.20470	.08610	-.30100	-.05430	-.08440	.00000	.62130	.00000	-.08440
.902	105.580	9.35220	2.69590	.07310	-.29370	-.04600	.02440	.00000	.61510	.00000	.02440
.902	103.580	9.43950	3.19010	.06550	-.27760	-.05590	.11410	.00000	.60870	.00000	.11410
.902	101.600	9.56330	3.68210	.06380	-.25770	-.05920	.22100	.00000	.60270	.00000	.22100
.902	99.610	9.70090	4.16330	.03600	-.21320	-.08440	.32880	.00000	.59720	.00000	.32880
.902	97.630	9.84120	4.65970	.02340	-.22510	-.05780	.42000	.00000	.59150	.00000	.42000
.902	95.650	9.95490	5.21690	.03200	-.31630	-.05830	.47280	.00000	.58510	.00000	.47280
.902	93.670	10.11170	5.82970	.01120	-.30080	-.05130	.48370	.00000	.57850	.00000	.48370
.902	91.690	10.13030	6.35990	-.04720	-.20260	-.06130	.43390	.00000	.57200	.00000	.43390
.902	89.820	10.19640	6.95450	-.06920	-.14790	-.05760	.40430	.00000	.56520	.00000	.40430
.902	99.610	9.75930	4.20970	.04340	-.22190	-.06000	.33000	.00000	.56690	.00000	.33000
GRADIENT			-.26326	.00421	-.00476	.00036	-.03402	.00000	.00311	.00000	-.03402



TABULATED SOURCE DATA, MSFC TWT 587

MSFC 587 (PA6) TITAN III C SRM (MSBTP)

1897000 (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = .000

REFERENCE DATA

SCALE = .0074
ZMRP = .0000 IN.
YMRP = .0000 IN.
Z-RP = 4.8338 IN.
Y-RP = .0000 IN.

RUN NO. 249/ 0 RM/L = 0.72 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.193	109.360	11.73340	5.02140	.44280	-.49330	.07560	-.50790	.00000	.59730	.00000	-.50790
1.195	107.470	11.92920	5.00240	-.43630	-.50340	.08660	-.39720	.00000	.59420	.00000	-.39720
1.195	105.480	12.11430	5.78000	.42210	-.47140	.08230	-.28240	.00000	.59110	.00000	-.28240
1.195	103.490	12.27850	6.14860	-.42050	-.41470	.07610	-.16430	.00000	.58810	.00000	-.16430
1.195	101.510	12.49860	6.74930	.42680	-.38460	.08700	-.06180	.00000	.58510	.00000	-.06180
1.195	99.530	12.63450	7.17570	-.41560	-.35140	.07830	.04680	.00000	.57940	.00000	.04680
1.195	97.560	12.77030	7.63120	.41000	-.31340	.08350	.14790	.00000	.57390	.00000	.14790
1.195	95.590	12.84740	8.36160	-.40910	-.24400	.07760	.23130	.00000	.56890	.00000	.23130
1.195	93.600	12.99450	8.85820	.39420	-.28240	.07560	.31600	.00000	.56320	.00000	.31600
1.195	91.630	13.07640	9.32830	-.38650	-.23360	.07900	.38450	.00000	.56120	.00000	.38450
1.195	89.750	13.21480	9.85610	.39780	-.21520	.08970	.44120	.00000	.55710	.00000	.44120
1.195	89.530	12.62860	7.21210	-.41350	-.35810	.08660	.04400	.00000	.57920	.00000	.04400
GRADIENT		-.07402	-.25207	.00256	-.01623	-.00010	-.04921	.00000	.00211	.00000	-.04921

RUN NO. 263/ 0 RM/L = 7.08 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.962	109.440	11.65810	7.03830	.48810	-.40170	.12500	-.48850	.00000	.57510	.00000	-.48850
1.962	107.570	11.87570	7.35500	-.49190	-.37580	.13150	-.38000	.00000	.57310	.00000	-.38000
1.962	105.590	12.12300	7.68010	.49790	-.37840	.13290	-.27610	.00000	.57130	.00000	-.27610
1.962	103.560	12.34110	8.05220	-.50480	-.35470	.14140	-.17770	.00000	.56890	.00000	-.17770
1.962	101.570	12.59810	8.42710	.50740	-.38280	.15660	-.07730	.00000	.56680	.00000	-.07730
1.962	99.580	12.69700	8.89250	-.51980	-.34540	.15460	.01610	.00000	.56480	.00000	.01610
1.962	97.590	12.78750	9.38100	.52450	-.33070	.15960	.09930	.00000	.56260	.00000	.09930
1.962	95.580	12.91960	9.30460	-.52870	-.29190	.15260	.17730	.00000	.56030	.00000	.17730
1.962	93.610	13.07350	9.64690	.52980	-.31190	.17090	.25960	.00000	.55810	.00000	.25960
1.962	91.600	13.15850	9.89930	-.53750	-.29390	.17510	.33430	.00000	.55630	.00000	.33430
1.962	89.730	13.24390	10.14310	.53980	-.29330	.17430	.40270	.00000	.55450	.00000	.40270
1.962	89.590	12.66880	6.88800	-.50980	-.36460	.15130	.01370	.00000	.56460	.00000	.01370
GRADIENT		-.07909	-.19884	-.00273	-.00369	-.00258	-.04493	.00000	.00106	.00000	-.04493

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

LABORATORY SOURCE DATA, MUPC TWT 967

INSTRUMENT (23 APR 74)

MUPC 507(UA4) TITAN III C 8IN (MNETP)

PARAMETRIC DATA

BETA = .000 PHI = .000

REFERENCE DATA

REF = .0360 IN XREF = 4.6330 IN.
LREF = .0000 IN. YREF = .0000 IN.
BREF = .0600 IN. ZREF = .0000 IN.
SCALE = .0074

RUN NO. 264/ 0 RML/ 0 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYM	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.498	109.580	11.12890	6.77230	.49200	-.54900	.11800	-.39790	.00000	.57450	.00000	-.39790
3.498	107.700	11.37180	7.13330	.50730	-.59700	.12950	-.30800	.00000	.57210	.00000	-.30800
3.498	105.820	11.61450	7.48020	.51640	-.67200	.13330	-.20940	.00000	.57000	.00000	-.20940
3.498	103.690	11.85100	7.85120	.51150	-.76650	.13790	-.13100	.00000	.56760	.00000	-.13100
3.498	101.700	12.05570	8.20670	.50810	-.85980	.13900	-.04200	.00000	.56530	.00000	-.04200
3.498	99.700	12.23770	8.56510	.51480	-.94900	.13490	.03290	.00000	.56290	.00000	.03290
3.498	97.710	12.39110	8.92280	.52330	-.91940	.13090	.11180	.00000	.56110	.00000	.11180
3.498	95.720	12.51840	9.11280	.52610	-.91040	.13660	.18920	.00000	.55930	.00000	.18920
3.498	93.720	12.64960	9.39890	.52890	-.89480	.13800	.25990	.00000	.55760	.00000	.25990
3.498	91.710	12.72140	9.63310	.52920	-.90230	.14900	.31330	.00000	.55560	.00000	.31330
3.498	89.690	12.78930	9.84650	.52920	-.88650	.14310	.36870	.00000	.55400	.00000	.36870
3.498	87.700	12.83900	10.05130	.51310	-.74540	.12340	.42900	.00000	.56300	.00000	.42900
GRADIENT		-.06440	-.15637	-.00145	-.00413	-.00105	-.03872	.00600	.00103	.00000	-.03872

RUN NO. 265/ 0 RML/ 0 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYM	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.999	109.720	10.86630	6.97660	.48350	-.51350	.09910	-.38990	.00000	.57100	.00000	-.38990
4.999	107.640	11.23310	7.26980	.50910	-.50120	.08020	-.28430	.00000	.56960	.00000	-.28430
4.999	105.820	11.52830	7.57820	.52140	-.52660	.08150	-.19400	.00000	.56830	.00000	-.19400
4.999	103.620	11.69620	7.94380	.53100	-.53530	.09760	-.09600	.00000	.56550	.00000	-.09600
4.999	101.620	11.95200	8.23170	.52690	-.50700	.09430	-.02440	.00000	.56430	.00000	-.02440
4.999	99.620	12.15190	8.56260	.52280	-.51050	.08070	.05340	.00000	.56210	.00000	.05340
4.999	97.610	12.26870	8.86140	.53320	-.50300	.09210	.14746	.00000	.56010	.00000	.14740
4.999	95.610	12.38020	9.07280	.54340	-.52860	.09340	.21700	.00000	.55870	.00000	.21700
4.999	93.630	12.52080	9.30680	.52750	-.50540	.09130	.29210	.00000	.55750	.00000	.29210
4.999	91.610	12.61100	9.44270	.53900	-.49370	.06940	.33560	.00000	.55670	.00000	.33560
4.999	89.930	12.66500	9.56210	.52210	-.43180	.09920	.38870	.00000	.55590	.00000	.38870
4.999	87.620	12.69960	9.55420	.53710	-.50210	.08790	.45570	.00000	.56200	.00000	.45570
GRADIENT		-.08913	-.13549	-.00167	-.00311	.00102	-.03939	.00000	.00081	.00000	-.03939



TABULATED SOURCE DATA, NSFC TUT 987

(897007) (23 APR 74)

NSFC 507 (FAA) TITAN III C SRM (HBETP)

PARAMETRIC DATA

REF Z : .0300 IN YMRP Z : 4.6330 IN.
 LREF Z : .0000 IN. YMRP Z : .0000 IN.
 BREF Z : .0000 IN. ZMRP Z : .0000 IN.
 SCALE Z : .0074

BETA Z : .000 PHI Z : .000

RUN NO. 242/ 0 RM/L Z 4.00 GRADIENT INTERVAL Z -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	129.370	5.50460	-2.10940	-.03900	-2.29300	.02440	-1.00600	.00000	.70000	.00000	-1.00600
.997	127.670	5.69980	-2.07190	-.00330	-2.11000	.01130	-.90860	.00000	.69750	.00000	-.90860
.997	125.660	6.02900	-2.10480	.07970	-1.72600	.02140	-.78850	.00000	.69570	.00000	-.78850
.997	123.650	6.37820	-1.98010	.29290	-1.07920	.02340	-.69910	.00000	.69190	.00000	-.69910
.997	121.656	6.73320	-1.78300	.37310	-1.68120	.03290	-.60740	.00000	.68690	.00000	-.60740
.997	119.640	6.45090	-1.61990	.32020	-1.72690	.00920	-.50840	.00000	.68330	.00000	-.50840
.997	117.640	6.30370	-1.31460	.18360	-1.75740	.00850	-.41350	.00000	.67670	.00000	-.41350
.997	115.640	6.67740	-1.27260	-.19310	-1.02040	-.03750	-.30000	.00000	.67560	.00000	-.30000
.997	113.670	6.78020	-.91700	-.21360	-.98500	-.07660	-.21240	.00000	.66860	.00000	-.21240
.997	111.650	6.93340	-.56880	-.24340	-.67310	-.03990	-.19290	.00000	.66190	.00000	-.19290
.997	109.780	7.10240	-.19100	-.27240	-.76970	-.06640	-.10090	.00000	.65420	.00000	-.10090
.997	119.680	6.59100	-1.66400	.08910	-1.46900	-.01960	-.90380	.00000	.68440	.00000	-.90380
GRADIENT		-.07472	-.09703	.01803	-.07271	.00506	-.04669	.00000	.00226	.00000	-.04669

RUN NO. 241/ 0 RM/L Z 5.00 GRADIENT INTERVAL Z -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
.902	129.340	6.65700	-2.47950	.03910	-.78770	-.00400	-1.04730	.00000	.69660	.00000	-1.04730
.902	127.430	7.00080	-2.37120	.06640	-.69960	.00040	-.98880	.00000	.69430	.00000	-.98880
.902	125.410	7.35950	-2.17520	.10410	-.59240	.01020	-.90120	.00000	.68890	.00000	-.90120
.902	123.410	7.67820	-1.91660	.08070	-.54740	.01240	-.80470	.00000	.68140	.00000	-.80470
.902	121.430	7.99450	-1.19770	.12190	-.58240	.00910	-.72610	.00000	.67040	.00000	-.72610
.902	119.410	8.21090	-.93420	.08830	-.60880	-.00940	-.63660	.00000	.66430	.00000	-.63660
.902	117.420	8.57620	-.24810	.03740	-.55930	-.01550	-.53740	.00000	.65510	.00000	-.53740
.902	115.430	8.81130	.34350	.12310	-.48190	-.02200	-.44470	.00000	.64650	.00000	-.44470
.902	113.470	8.92700	.81400	.11580	-.44220	-.02040	-.34240	.00000	.63990	.00000	-.34240
.902	111.470	9.17320	1.38890	.12900	-.39240	-.03070	-.25490	.00000	.63230	.00000	-.25490
.902	109.800	9.34560	1.90680	.12870	-.35080	-.03970	-.13350	.00000	.62370	.00000	-.13350
.902	115.430	8.36010	-.74600	.09370	-.61670	.00810	-.63880	.00000	.66280	.00000	-.63880
GRADIENT		-.13597	-.23453	-.00396	-.01039	.00223	-.04575	.00000	.00387	.00000	-.04575

NSFC 507 (744) TITAN III C SRM (MDETP)

(R07007) (23 APR 74)

REFERENCE DATA

SREF = .0368 SQ. IN XMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 240/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.197	129.320	6.67900	1.34720	.32210	-.74720	.06790	-1.33160	.00000	.63180	.00000	-1.33160
1.197	127.410	9.08240	1.61650	.31060	-.60920	.06450	-1.86900	.00000	.62890	.00000	-1.86900
1.197	125.410	9.46950	1.99750	.32710	-.82240	.06490	-1.19650	.00000	.62480	.00000	-1.19650
1.197	123.400	9.86280	2.26740	.36210	-.96360	.07760	-1.11400	.00000	.62240	.00000	-1.11400
1.197	121.390	10.21740	2.54740	.39180	-.51160	.07940	-1.02450	.00000	.61990	.00000	-1.02450
1.197	119.370	10.52890	2.74960	.39900	-.48260	.08420	-.92280	.00000	.61840	.00000	-.92280
1.197	117.360	10.85090	3.05450	.39290	-.31940	.08680	-.82540	.00000	.61580	.00000	-.82540
1.197	115.370	11.12610	3.51940	.39550	-.32070	.08490	-.72630	.00000	.61140	.00000	-.72630
1.197	113.390	11.41190	3.90560	.40050	-.49330	.07810	-.63620	.00000	.60820	.00000	-.63620
1.197	111.390	11.68070	4.43710	.42360	-.52190	.08940	-.54030	.00000	.60340	.00000	-.54030
1.197	109.920	11.87520	4.87360	.43830	-.31800	.08700	-.44090	.00000	.59950	.00000	-.44090
1.197	119.390	10.51940	2.80580	.39260	-.90420	.08590	-.91630	.00000	.61770	.00000	-.91630
GRADIENT		-.16086	-.17159	-.00584	-.01041	-.00008	-.04572	.00000	.00155	.00000	-.04572

RUN NO. 262/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.950	129.430	6.32630	3.52610	.37550	-.42880	.12170	-1.37970	.00000	.59790	.00000	-1.37970
1.950	127.950	8.76910	3.95250	.44910	-.37720	.13620	-1.30610	.00000	.59440	.00000	-1.30610
1.950	125.950	9.10450	4.36340	.46080	-.39250	.13430	-1.22010	.00000	.59130	.00000	-1.22010
1.950	123.910	9.64920	4.87220	.47580	-.36340	.13060	-1.14840	.00000	.59020	.00000	-1.14840
1.950	121.910	9.97940	5.03690	.46350	-.39050	.12230	-1.05290	.00000	.58760	.00000	-1.05290
1.950	119.490	10.39240	5.41500	.45740	-.41060	.12790	-.96190	.00000	.58530	.00000	-.96190
1.950	117.490	10.82490	5.66780	.46700	-.42140	.12990	-.87360	.00000	.58520	.00000	-.87360
1.950	115.490	11.11340	6.01810	.47300	-.43170	.12990	-.76930	.00000	.58290	.00000	-.76930
1.950	113.480	11.43430	6.31040	.47810	-.42530	.13210	-.66640	.00000	.58160	.00000	-.66640
1.950	111.470	11.69370	6.68420	.49360	-.41250	.13430	-.56010	.00000	.57910	.00000	-.56010
1.950	109.990	11.91900	6.96590	.50390	-.39910	.13950	-.45440	.00000	.57750	.00000	-.45440
1.950	119.920	10.32780	5.45890	.45590	-.40570	.12520	-.35860	.00000	.58460	.00000	-.35860
GRADIENT		-.18295	-.16966	-.00394	.00176	-.00036	-.04646	.00000	.00095	.00000	-.04646



TABULATED SOURCE DATA, MSFC TWT 507
 MSFC 507(F8A) TITAN III C SRM (MSBTP)

DATE : 10 74

19070077 (23 APR 74)

PARAMETRIC DATA

BETA = .000 PWI = .000

REFERENCE DATA

REF = .0360 IN XMRP = 4.6330 IN.
 LEZF = .0000 IN. YMRP = .0000 IN.
 REZF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 287/ 0 RM/L = 6.39 GRADIENT INTERVAL = -3.00/ 9.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.590	7.70700	3.77300	.35370	-.34900	.06350	-1.30340	.00000	.58950	.00000	-1.30340
3.400	127.700	8.10120	4.04640	.37940	-.35680	.06950	-1.20990	.00000	.58030	.00000	-1.20990
3.400	125.800	8.49750	4.36240	.39610	-.37150	.07100	-1.10950	.00000	.58650	.00000	-1.10950
3.400	123.900	8.88400	4.66480	.41310	-.39090	.07230	-1.06440	.00000	.58400	.00000	-1.06440
3.400	121.970	9.26510	4.93890	.43060	-.41070	.06560	-.96670	.00000	.58400	.00000	-.96670
3.400	119.000	9.63450	5.23980	.44860	-.43650	-.07400	-.86840	.00000	.58260	.00000	-.86840
3.400	117.040	9.99560	5.53990	.46720	-.47700	.06500	-.75970	.00000	.58120	.00000	-.75970
3.400	115.040	10.30150	5.83350	.48180	-.48260	.06460	-.65760	.00000	.57980	.00000	-.65760
3.400	113.040	10.59540	6.11100	.49100	-.50540	.06180	-.55290	.00000	.57800	.00000	-.55290
3.400	111.040	10.86310	6.48250	.49510	-.53140	.06310	-.44810	.00000	.57590	.00000	-.44810
3.400	109.760	11.13020	6.80210	.49190	-.54730	.06360	-.35540	.00000	.57410	.00000	-.35540
3.400	119.070	9.59960	5.23610	.46090	-.43790	.04060	-.86950	.00000	.58240	.00000	-.86950
GRADIENT		-.17329	-.15114	-.00736	.01063	.00075	-.05099	.00000	.00075	.00000	-.05099

RUN NO. 288/ 0 RM/L = 5.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	129.710	7.00890	4.12660	.34890	-.33250	.07500	-1.41660	.00000	.58280	.00000	-1.41660
4.939	127.030	7.95400	4.48040	.36030	-.34340	.05850	-1.31310	.00000	.58050	.00000	-1.31310
4.939	125.010	8.38360	4.90720	.36990	-.34630	.05740	-1.20870	.00000	.57890	.00000	-1.20870
4.939	123.010	8.78270	5.04270	.38580	-.40980	.05470	-1.09010	.00000	.57680	.00000	-1.09010
4.939	121.000	9.16230	5.34330	.42610	-.40420	.06090	-.98310	.00000	.57780	.00000	-.98310
4.939	119.070	9.58300	5.42640	.44090	-.40420	.04380	-.86080	.00000	.57960	.00000	-.86080
4.939	117.000	9.95380	5.63370	.45270	-.48950	.06530	-.75580	.00000	.57730	.00000	-.75580
4.939	115.790	10.29000	6.10340	.46510	-.48440	.06710	-.62980	.00000	.57650	.00000	-.62980
4.939	113.770	10.64410	6.37650	.49170	-.49740	.04980	-.52250	.00000	.57570	.00000	-.52250
4.939	111.770	10.95970	6.69460	.51490	-.51490	.04990	-.41550	.00000	.57420	.00000	-.41550
4.939	109.090	11.21900	6.98060	.51770	-.56250	.05370	-.30740	.00000	.57270	.00000	-.30740
4.939	119.000	9.52920	5.58510	.43830	-.38390	.00060	-.86900	.00000	.57730	.00000	-.86900
GRADIENT		-.18915	-.13905	-.00896	.01150	.00061	-.05623	.00000	.00041	.00000	-.05623

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, MWFC TWT 507

MWFC 507 (WAA) TITAN III C SON (MBETP)

(RD7000) (23 APR 74)

DATE 11 JUL 70

REFERENCE DATA

REF 1 : .6388 90. IN ZMRP = 4.0338 IN.
REF 2 : .9000 90. IN ZMRP = .0000 IN.
REF 3 : .9000 90. IN ZMRP = .0000 IN.
SCALE : .0074

PARAMETRIC DATA

BETA = .008 PHI = .000

RUN NO. 109/ 0 RM/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CTM	CTMM	CBL	CA	CAB	KCP/L	CPBI	CAF
1.198	148.318	3.50780	-1.8090	.31520	-2.28010	.18600	-1.91780	.34300	.64780	-.34300	-2.28010
1.198	148.328	3.93230	-.25450	.34430	-1.75100	.16940	-1.87550	.32790	.64810	-.32790	-2.20350
1.198	144.238	6.45078	-.38870	.37850	-1.41290	.17300	-1.80180	.30940	.64380	-.30940	-2.11100
1.198	142.098	7.04830	-.50590	.43230	-1.21390	.18360	-1.74170	.32230	.64160	-.32230	-2.06400
1.198	139.990	7.69410	-.64230	.50510	-.99020	.20830	-1.69540	.34940	.63760	-.34940	-2.04790
1.198	137.860	8.19530	-.82250	.60360	-.83780	.20550	-1.64290	.36190	.63680	-.36190	-2.00490
1.198	135.760	8.62280	-.99100	.63110	-.82470	.20400	-1.56440	.35190	.63940	-.35190	-1.91840
1.198	133.670	8.99940	-1.44430	.61560	-.99030	.19090	-1.48790	.33800	.64310	-.33800	-1.82590
1.198	131.590	9.21840	-.45010	.57510	-.88910	.18440	-1.41950	.32590	.64590	-.32590	-1.75800
1.198	129.520	9.49170	-.71220	.53550	-.83130	.16680	-1.23560	.30950	.64220	-.30950	-1.54920
1.198	127.500	9.76440	-.95340	.64880	-.83250	.18930	-1.64330	.35300	.63870	-.35300	-1.99840
1.198	137.860	9.19140	-.01648	-.01448	-.05362	.00028	-.03204	.00028	.00009	-.00028	-.03230
1.198	GRADIENT	-.21025									

RUN NO. 34/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CTM	CTMM	CBL	CA	CAB	KCP/L	CPBI	CAF
3.480	149.168	3.99040	1.38820	.28190	-.28250	.12820	-1.87100	.02300	.60740	-.02300	-1.89410
3.480	147.208	4.39970	1.54580	.29420	-.27130	.11710	-1.85940	.01420	.60700	-.01420	-1.87360
3.480	145.140	4.79650	1.71040	.31270	-.26320	.11920	-1.84290	.00430	.60630	-.00430	-1.84710
3.480	143.090	5.21950	1.90120	.33910	-.31280	.13380	-1.82130	-.00310	.60540	.00310	-1.81820
3.480	141.010	5.67760	2.12360	.37370	-.31870	.13690	-1.79920	-.01250	.60410	.01250	-1.78840
3.480	138.930	6.11900	2.32430	.38960	-.32220	.11800	-1.75450	-.03550	.60340	.02450	-1.75080
3.480	136.850	6.50270	2.55650	.38110	-.31890	.08470	-1.67430	-.04480	.60270	.04480	-1.64440
3.480	132.798	6.97120	2.79570	.38990	-.32310	.08720	-1.58920	-.05590	.60220	.05590	-1.58610
3.480	130.710	7.40820	3.04870	.40380	-.33790	.08730	-1.51810	-.05670	.60270	.05670	-1.54440
3.480	128.740	7.81800	3.30210	.42180	-.35780	.07690	-1.41120	-.05680	.60270	.05680	-1.49980
3.480	126.840	8.22450	3.56790	.42730	-.39810	.07240	-1.31870	-.05680	.60310	.05680	-1.42880
3.480	124.950	8.63620	3.83220	.38270	-.32950	.10350	-1.75100	-.02230	.60310	.02230	-1.72880
3.480	GRADIENT	-.20845	-.10703	-.00721	.00520	.00293	-.02724	.00427	.00334	-.00427	-.03152

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 IN. INEIP = 4.6330 IN.
 LREF = .9000 IN. THRP = .0000 IN.
 BREF = .9000 IN. ZHRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = .000

RUN NO. 106/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CMM	CLMM	CYM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.998	169.940	59620	-1.11376	54290	.06480	.04520	-1.05050	-.04360	.98790	.04360	-1.00690
.998	167.620	74820	-1.20560	66380	.26000	.07350	-1.10040	-.03550	.85540	.03550	-1.06480
.998	163.610	93200	-1.29160	69190	.41630	.07040	-1.13300	-.03020	.82320	.03020	-1.10270
.998	163.370	1.20220	-1.29510	73540	.42620	.05650	-1.16670	-.02030	.78760	.02030	-1.14640
.998	161.970	1.40780	-1.22790	81500	.45770	.06840	-1.21190	-.01130	.76190	.01130	-1.20000
.998	159.920	1.68140	-1.18880	89130	.47510	.08990	-1.26050	-.00510	.74200	.00510	-1.25340
.998	157.490	2.13750	-1.06090	1.00320	.47790	.06310	-1.31670	.00550	.71060	-.00550	-1.32230
.998	155.450	2.32640	-1.07790	87290	.49810	.04980	-1.33800	.00910	.71010	-.00910	-1.34510
.998	153.440	2.60100	-1.14010	87690	.04090	.07210	-1.32560	.02970	.70700	-.02970	-1.35930
.998	151.390	2.86090	-1.17630	73170	-.16530	.06170	-1.30920	.02520	.70350	-.02520	-1.33440
.998	149.460	3.18340	-1.18000	63790	-.43860	.06420	-1.26570	.03060	.69900	-.03060	-1.29640
.998	159.920	1.68400	-1.19930	69990	.50120	.05790	-1.26910	.00100	.74160	-.00100	-1.27010
.998	GRADIENT	-.13107	-.00336	-.00664	.02693	-.00032	.01320	-.00391	.00945	.00391	.01712

RUN NO. 107/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	CMM	CLMM	CYM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.999	169.470	73930	-.70720	53740	.19780	.09690	-1.19380	.00000	.77250	.00000	-1.19380
.999	167.520	94210	-.80670	63900	.41960	.09180	-1.24860	.01090	.75990	-.01090	-1.25950
.999	163.490	1.17120	-.86150	67180	.53700	.09790	-1.30950	.02860	.74460	-.02860	-1.33820
.999	163.430	1.40210	-.89340	66310	.50440	.09670	-1.34880	.04320	.73210	-.04320	-1.39200
.999	161.390	1.69740	-.86760	69940	.45320	.10760	-1.39480	.06170	.71770	-.06170	-1.45660
.999	159.330	1.95370	-.84080	83990	.46190	.09860	-1.43740	.08520	.70590	-.08520	-1.52260
.999	157.280	2.34700	-.86680	1.19900	.44800	.11600	-1.47620	.09890	.69830	-.09890	-1.57510
.999	155.190	2.71330	-.92230	1.33540	.10180	.12130	-1.49740	.10380	.69590	-.10380	-1.60130
.999	153.130	3.09280	-1.03760	1.34490	-.16050	.12600	-1.50470	.12700	.69480	-.12700	-1.63170
.999	151.020	3.50190	-1.20030	1.18910	-.74530	.12490	-1.51180	.15510	.69490	-.15510	-1.66690
.999	149.020	3.93730	-1.30090	1.02110	-1.36980	.13870	-1.49360	.17370	.69350	-.17370	-1.65740
.999	159.310	2.01750	-.82320	87740	.49610	.10310	-1.46230	.08980	.70310	-.08980	-1.54810
.999	GRADIENT	-.15991	.02326	-.03529	.06793	-.00216	.01332	-.00641	.00396	.00641	-.02372

NSPC 597 (FAM) TITAN III C 88M (MDETF)

(087009) (23 APR 74)

REFERENCE DATA

SREF = .0360 SE. IN XMP = 4.6330 IN.
LREF = .0000 IN. YMP = .0000 IN.
BREF = .0000 IN. ZMP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 100/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

RACH	ALPHA	CWN	CLWN	CYN	CYMN	CBL	CA	CAB	XCP/L	CFB1	CAF
1.197	169.360	.94220	-.93490	.56920	.83390	.06900	-1.73490	.16970	.77710	-.16970	-1.90470
1.197	167.390	1.21690	-.96170	.73490	.44410	.07610	-1.77290	.19390	.73360	-.19390	-1.96670
1.197	169.340	1.49710	-1.03310	1.03240	.66040	.03160	-1.62000	.21970	.73600	-.21970	-2.03980
1.197	163.240	1.64160	-1.03390	1.20920	.67900	.09940	-1.64990	.24220	.72260	-.24220	-2.09210
1.197	161.170	2.23760	-1.03980	1.39670	1.11300	.09640	-1.66760	.25350	.71010	-.25350	-2.12110
1.197	159.030	2.63340	-1.11330	1.51350	1.10130	.10930	-1.67320	.27140	.70460	-.27140	-2.14470
1.197	156.940	3.11540	-1.14120	1.48620	.69260	.12340	-1.68630	.28680	.69730	-.28680	-2.17290
1.197	154.620	3.63960	-1.10330	1.19610	-.27970	.14510	-1.69300	.31320	.68960	-.31320	-2.20630
1.197	152.710	4.24900	-.84370	.62460	-1.34630	.17150	-1.92620	.36320	.67670	-.36320	-2.23950
1.197	150.600	4.90990	-.26130	.50920	-2.13660	.20020	-1.92140	.37210	.64950	-.37210	-2.27260
1.197	148.570	5.49010	.68370	.39120	-2.16490	.21330	-1.90620	.36640	.64950	-.36640	-2.27260
1.197	159.040	2.66790	-1.14550	1.49660	1.10100	.11150	-1.65420	.24450	.70500	-.24450	-2.09080
1.197	GRADIENT	-.21095	-.03617	.01134	-.13604	-.00709	.00813	-.01903	.00559	-.01003	.01615

RUN NO. 110/ 0 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

RACH	ALPHA	CWN	CLWN	CYN	CYMN	CBL	CA	CAB	XCP/L	CFB1	CAF
1.934	169.360	.86670	-.63730	.38460	.32310	.04990	-1.62450	.06970	.74250	-.06970	-1.91430
1.934	167.400	1.16370	-.69170	.50760	.46840	.05640	-1.63950	.10730	.70410	-.10730	-1.94590
1.934	163.350	1.51070	-.30260	.59070	.52390	.07330	-1.65550	.12210	.67680	-.12210	-1.97770
1.934	163.240	1.69730	-.19250	.67660	.52890	.07930	-1.66710	.13920	.66430	-.13920	-2.02640
1.934	161.160	2.31670	-.02290	.69180	.52460	.09720	-1.69670	.15400	.65270	-.15400	-2.05080
1.934	159.030	2.77630	.27040	.53330	-.15810	.13120	-1.92190	.17710	.63920	-.17710	-2.05910
1.934	156.930	3.29130	.70610	.43360	-.62350	.15110	-1.94900	.19610	.62430	-.19610	-2.11920
1.934	154.680	3.77670	1.03330	.42650	-.78660	.17600	-1.93230	.18720	.61680	-.18720	-2.11960
1.934	152.790	4.21610	1.26400	.42660	-.64140	.19550	-1.90350	.16930	.61390	-.16930	-2.06910
1.934	150.680	4.66460	1.41930	.47080	-.77890	.21000	-1.89100	.14160	.61300	-.14160	-2.03260
1.934	148.680	5.04660	1.60300	.50960	-.64970	.20200	-1.86620	.12410	.61130	-.12410	-1.99030
1.934	159.030	2.72960	.66990	.49640	-.18330	.13520	-1.88230	.16760	.62980	-.16760	-2.04990
1.934	GRADIENT	-.20771	-.11671	.00337	-.07670	-.00882	.00304	-.00232	.00561	-.00232	.00559



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 587

PAGE 17

NSFC 587 (FA4) TITAN III C SWM (MDETP)

(897089) (23 APR 74)

REFERENCE DATA

REF = 6300 IN. IN XMRP = 4.6338 IN.
 LREF = 9000 IN. YMRP = .0000 IN.
 RREF = 9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 35/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	169.560	.64900	-.05820	.14440	.20590	.05050	-1.78260	.05370	.68240	-.03370	-1.03640
3.480	167.630	.07000	.04540	.16910	.21490	.04840	-1.79630	.05660	.64490	-.03600	-1.05300
3.480	165.590	1.11300	.17030	.19610	.16910	.05210	-1.80600	.06100	.63210	-.06100	-1.08790
3.480	163.560	1.38140	.32070	.19110	.06930	.04400	-1.82000	.06760	.62210	-.06760	-1.08800
3.480	161.510	1.09970	.48240	.18710	-.03230	.06660	-1.83010	.07000	.61560	-.07000	-1.09100
3.480	159.460	2.03100	.66540	.18210	-.12650	.07500	-1.83600	.06940	.61000	-.06940	-1.07400
3.480	157.410	2.41350	.83310	.17790	-.22790	.07670	-1.83380	.06350	.60780	-.06350	-1.01730
3.480	155.350	2.79930	.96230	.20320	-.26410	.08440	-1.83250	.05410	.60800	-.03410	-1.90670
3.480	153.310	3.18510	1.09320	.23070	-.27900	.09820	-1.83720	.04770	.60600	-.04770	-1.90500
3.480	151.230	3.56700	1.19660	.26040	-.26040	.09940	-1.86150	.03930	.60900	-.03930	-1.90110
3.480	149.200	3.93990	1.34890	.28150	-.24900	.09730	-1.87190	.03140	.60810	-.03140	-1.90330
3.480	159.460	2.63070	.85150	.17370	-.11690	.05950	-1.84250	.06890	.61090	-.06890	-1.91150
GRADIENT		-.16466	-.07143	-.00480	.02879	-.100301	.00422	.00119	.00233	-.00119	.00303

RUN NO. 36/ 0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	169.640	.49210	.01300	.08690	.16110	.02740	-1.79210	.02200	.64790	-.02200	-1.01420
4.959	167.730	.63740	.12030	.13130	.13920	.06950	-1.78620	.02330	.62750	-.02330	-1.00950
4.959	165.690	.88710	.24020	.14470	.13900	.05050	-1.79470	.02400	.61640	-.02400	-1.01870
4.959	163.700	1.13290	.44880	.19030	.08960	.06440	-1.80240	.02280	.60220	-.02280	-1.02520
4.959	161.660	1.45850	.59610	.15920	.07140	.04090	-1.82910	.02300	.59900	-.02300	-1.05240
4.959	159.600	1.78020	.76060	.16280	-.09460	.09910	-1.84090	.02130	.59680	-.02130	-1.06220
4.959	157.610	2.13120	.92960	.16240	-.10000	.06440	-1.85200	.01330	.59680	-.01330	-1.06750
4.959	155.610	2.52330	1.05810	.17910	-.10970	.07180	-1.84920	.00660	.59640	-.00660	-1.05590
4.959	153.560	2.92550	1.17470	.22930	-.13740	.06640	-1.85870	-.00390	.60070	-.00390	-1.05480
4.959	151.500	3.30060	1.36930	.29510	-.16900	.09440	-1.87540	-.01340	.59900	-.01340	-1.06190
4.959	149.610	3.69950	1.51940	.27810	-.15290	.09070	-1.86860	-.02350	.59960	-.02350	-1.04310
4.959	159.460	1.80760	.78400	.14700	-.04470	.05960	-1.86250	.01600	.59660	-.01600	-1.07850
GRADIENT		-.16408	-.07615	-.00774	.02859	-.00247	.00473	.00225	.00196	-.00225	.00248

TABULATED SOURCE DATA, MUPC TWT 567

DATE 13 JUL 74

(INST010) (23 APR 74)

MUPC 967 (FA4) TITAN III C SRN (MSETP)

PARAMETRIC DATA

BETA = .000 PHI = .000

REFERENCE DATA

STEP = 0.500 IN INCR = 4.6330 IN.
STEP = 0.000 IN. YMP = 0.000 IN.
STEP = 0.000 IN. ZMP = 0.000 IN.
SCALE = .0074

RUN NO. 105/ 0 RM/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.993	189.990	-.50220	1.03780	.06630	.36950	-.12010	-1.12430	-.07100	.91300	.07100	-1.05250
.993	188.070	-.37230	.63130	.07460	.23720	-.10900	-1.03100	-.00500	.92940	-.08600	-.94490
.993	186.070	-.27770	.61910	.07900	.22720	-.07590	-1.00090	-.00910	.93360	-.08910	-.91180
.993	184.030	-.21740	.31440	.05300	.18910	-.08210	-.96200	-.00660	.83450	-.09860	-.86510
.993	182.020	-.15780	.12030	.03930	.07120	-.05230	-.94500	-.10130	.74800	-.10150	-.84330
.993	179.990	.00820	-.12670	.07500	.05430	-.03700	-.93690	-.10330	2.58820	-.10330	-.83330
.993	177.970	.09320	-.41590	.11260	-.01300	-.02040	-.94090	-.09800	1.21630	.09800	-.84200
.993	175.950	.22070	-.69970	.16860	-.01770	-.02030	-.94370	-.09430	1.02970	.09430	-.84930
.993	173.950	.31270	-.88370	.26760	-.05420	-.00070	-.94970	-.07790	1.00920	-.05770	-.87170
.993	171.910	.42460	-.99850	.39320	-.09200	.03200	-.96990	-.05770	.94910	.05770	-.91210
.993	169.990	.59770	-.1.09770	.53500	.06910	.05310	-1.01940	-.03740	.68390	-.03740	-.98200
.993	168.020	-.07200	-.1.0820	.07920	.03440	-.03640	-.93600	-.10680	.32070	-.10680	-.83110
.993	GRADIENT	-.05246	.11298	-.02023	.01837	-.00618	-.00471	-.00148	-.00469	-.00148	-.00323

RUN NO. 104/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.904	190.070	-.63150	.86270	.02490	.39200	-.13690	-1.31030	-.03090	.2440	.03090	-1.27940
.904	188.130	-.48800	.62650	.04950	.26380	-.10230	-1.22910	-.03000	.61400	.05000	-1.19100
.904	186.110	-.34850	.42950	.05970	.19480	-.07850	-1.15080	-.04950	.80000	.04950	-1.10930
.904	184.080	-.25440	.23560	.02900	.09210	-.03070	-1.11460	-.06140	.77770	.06140	-1.03320
.904	182.050	-.13850	.13990	.04490	.11710	-.00960	-1.08490	-.07310	.77930	.07310	-1.01170
.904	180.000	-.02700	-.04800	.09690	.09310	.01340	-1.06870	-.08270	.42630	.08270	-.98600
.904	177.960	.11650	-.22080	.12620	.03060	.03310	-1.07740	-.07670	.86700	.07670	-1.00070
.904	175.930	.25970	-.33710	.16960	.01840	.03690	-1.08740	-.06690	.82620	.06690	-1.02030
.904	173.890	.39220	-.47030	.30200	.03490	.04960	-1.10710	-.04920	.80320	.04920	-1.05790
.904	171.860	.54960	-.58160	.45900	.09400	.06740	-1.13760	-.02000	.78540	.02000	-1.11760
.904	169.920	.72750	-.69110	.58010	.27220	.07400	-1.17510	-.00120	.77170	.00120	-1.17360
.904	168.020	.00740	-.00430	.08920	.08230	.02410	-1.08170	-.07830	.72290	.07830	-1.00310
.904	GRADIENT	-.06477	.07572	-.02490	.00229	-.01026	-.00564	-.00092	-.00261	-.00092	-.00471



PARAMETRIC DATA

BETA = .000 PHI = .000

REFERENCE DATA

AGE7 = .0360 IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BRE7 = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 105/ 0 RM/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.200	190.100	-76300	1.06990	.02010	.48930	-.13690	-1.03900	.19190	-.02770	-.10190	-2.01900
1.200	180.200	-59730	-.02730	.03900	.41610	-.09940	-1.70600	.19510	-.05130	-.15510	-1.92370
1.200	166.100	-40620	.09720	.04020	.24400	-.06110	-1.72790	.14140	-.06870	-.14140	-1.86900
1.200	184.110	-20290	-.41410	.05030	.22870	-.02130	-1.60610	.14550	-.05000	-.14550	-1.83370
1.200	186.050	-10720	-.17160	.06690	.21760	-.00030	-1.65640	.15020	-.05410	-.15020	-1.78660
1.200	179.900	.05690	-.03300	.12950	.21340	.02210	-1.63700	.13030	.72250	-.13030	-1.70810
1.200	177.930	.19260	-.25400	.19810	.19430	.03500	-1.66100	.14040	.01500	-.14040	-1.60200
1.200	179.900	34240	-.91900	.17540	.11040	.03820	-1.60760	.13630	.04210	-.13630	-1.62600
1.200	173.850	.51000	-.67930	.23830	.05310	.04190	-1.71300	.13710	-.13710	-.13710	-1.65020
1.200	171.770	.70620	-.00170	.39370	.14900	.06600	-1.74270	.13650	.79510	-.13650	-1.69390
1.200	169.610	.96170	-.00050	.57590	.32290	.07160	-1.77960	.17790	.76740	-.17790	-1.93390
1.200	179.900	.04620	-.04920	.12910	.21070	.01700	-1.63790	.12660	.74260	-.12660	-1.76660
1.200	GRADIENT	-.09071	.10307	-.02202	.01347	-.00991	-.00202	.00015	.00325	-.00015	-.00215

RUN NO. 111/ 0 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CNN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.946	190.100	-76930	.97360	-.09890	.12790	-.10400	-1.01810	.06590	.01170	-.04590	-1.08410
1.946	180.210	-59920	-.05930	-.04900	.16760	-.07820	-1.70660	.05560	-.04590	-.05560	-1.94220
1.946	166.170	-37850	.70460	-.02060	.15540	-.05470	-1.75460	.04220	-.06710	-.04220	-1.79690
1.946	184.100	-24680	.91300	-.01110	.09390	-.02590	-1.75730	.03100	.01450	-.03100	-1.70830
1.946	182.020	-.11920	.23340	-.01370	.04500	-.01270	-1.74740	.02490	-.90130	-.02490	-1.77230
1.946	179.900	.00200	-.00030	.01690	.05160	.01660	-1.74670	.02920	6.19020	-.02920	-1.77600
1.946	177.930	.14070	-.31000	.05470	.07040	.02220	-1.76740	.03140	-.93620	-.03140	-1.79800
1.946	179.900	.26270	-.40920	.09040	.03200	.03100	-1.75920	.04070	.06710	-.04070	-1.79600
1.946	173.850	.41850	-.65500	.12730	-.00250	.04840	-1.77610	.04760	.04970	-.04760	-1.82370
1.946	171.770	.62100	-.73710	.22640	.12940	.04900	-1.77940	.04200	.60170	-.04200	-1.86030
1.946	169.780	.89790	-.86910	.39520	.31060	.05430	-1.81940	.06310	.74500	-.06310	-1.90280
1.946	179.900	.01930	-.09110	.01760	.03440	.01640	-1.69200	.05230	1.24710	-.05230	-1.72440
1.946	GRADIENT	-.07420	.09430	-.01897	-.00098	-.00780	.00058	-.00070	.00283	-.00070	-.00120

NSFC 587 (744) TITAN III C SON (MRETP)

(R97810) (23 APR 74)

REFERENCE DATA

REF = .6308 24. IN ZMRP = 4.6338 IN.
 LREF = .9000 IN. THRP = .0000 IN.
 REF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = .000

RUN NO. 367 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	180.100	-.66950	.43640	-.07520	.20970	-.07370	-.05810	-.05810	.75410	-.05810	-.05810	-1.09370
3.400	180.250	-.46940	.40000	-.06130	.19920	-.05720	-1.01060	.05170	.77040	-.05170	-.05170	-1.08230
3.400	180.220	-.33820	.38950	-.05840	.14190	-.04130	-1.76470	.04360	.79660	-.04360	-.04360	-1.82840
3.400	184.190	-.23350	.29870	-.04900	.09830	-.02220	-1.76470	.03590	.81340	-.03590	-.03590	-1.80020
3.400	182.170	-.13090	.17070	-.04810	.07790	-.02340	-1.79650	.03340	.81680	-.03340	-.03340	-1.79990
3.400	180.140	-.00350	.09650	-.04330	.03130	-.01080	-1.74750	.03480	4.14076	-.03480	-.03480	-1.76250
3.400	178.100	-.08840	-.05690	-.04110	.04480	-.00270	-1.74820	.03600	.72620	-.03600	-.03600	-1.76420
3.400	176.100	.17860	-.15550	-.03940	.03130	-.00910	-1.75310	.03970	.76170	-.03970	-.03970	-1.79290
3.400	174.090	.29720	-.17560	-.03840	.07290	-.02110	-1.75970	.04620	.72630	-.04620	-.04620	-1.80490
3.400	172.090	.44190	-.13690	-.03450	.15140	-.03090	-1.76580	.05100	.69120	-.05100	-.05100	-1.81680
3.400	170.100	.63770	-.04680	-.14440	.20490	-.02470	-1.77290	.04950	.66120	-.04950	-.04950	-1.82250
3.400	160.140	.01040	-.10440	-.03730	.05390	-.02100	-1.75060	.03390	-.81060	-.03390	-.03390	-1.79460
GRADIENT		-.35947	.03445	-.00940	.00251	-.00489	-.00271	.00012	.00466	-.00012	-.00012	-.00283

RUN NO. 377 0 RM/L = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	180.090	-.60570	.40280	-.02990	.11360	-.04580	-1.76620	.02050	.75560	-.02050	-.02050	-1.80670
4.959	180.100	-.48330	.35250	-.09260	.11400	-.04870	-1.77710	.01890	.74780	-.01890	-.01890	-1.79540
4.959	186.190	-.37710	.30380	-.07670	.09250	-.04370	-1.74720	.01620	.75340	-.01620	-.01620	-1.76350
4.959	184.160	-.26200	.20740	-.07420	.07650	-.03650	-1.72160	.01900	.75170	-.01900	-.01900	-1.74260
4.959	182.150	-.17680	.15770	-.07240	.04660	-.00870	-1.71570	.01390	.76440	-.01390	-.01390	-1.72970
4.959	180.150	-.11890	.09440	-.05630	.02510	-.01800	-1.71210	.01440	.75200	-.01440	-.01440	-1.72650
4.959	178.130	-.00610	-.03370	-.06830	.01820	-.03610	-1.69020	.01440	-.04290	-.01440	-.01440	-1.70475
4.959	176.130	.00300	-.10960	-.03920	.07740	-.01100	-1.70890	.01540	.81690	-.01540	-.01540	-1.72450
4.959	174.140	.19710	-.11230	-.02430	.07140	-.03890	-1.70670	.01620	.72360	-.01620	-.01620	-1.72290
4.959	172.110	.31390	-.14370	-.09470	.10160	-.03560	-1.72470	.01800	.70940	-.01800	-.01800	-1.74270
4.959	170.160	.43230	-.00030	.08120	.13220	-.04780	-1.71000	.01900	.67500	-.01900	-.01900	-1.72960
4.959	160.190	-.14790	.11010	-.07120	.03130	-.01530	-1.70500	.01590	-.74570	-.01590	-.01590	-1.72180
GRADIENT		-.04947	.02945	-.00634	.00021	-.00526	-.00352	.00003	.00556	-.00003	-.00003	-.00356



TABULATED SOURCE DATA, NSFC TWT 587

DATE 11 JUL 74

(R37011) (23 APR 74)

NSFC 587(F44) TITAN III C SRM (MBE1P)

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. TMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 337.500

RUN NO. 138/ 0 RM/L = 6.57 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYL	CA	CAB	XCP/L	CPBI	CAF
1.196	-10.180	-0.9490	-1.61260	-0.35910	-0.13040	1.22350	.23520	.42340	-.23520	.90920
1.196	-8.290	-0.7580	-1.27760	-0.32310	-0.09670	1.20670	.21690	.41220	-.21690	.90900
1.196	-6.170	-0.47630	-0.94950	-0.29680	-0.05700	1.18630	.21020	.39820	-.21020	.97600
1.196	-4.120	-0.31580	-0.61710	-0.28280	-0.03320	1.16000	.19800	.40420	-.19800	.96190
1.196	-2.000	-0.13660	-0.29180	-0.20790	-0.01840	1.13690	.19810	.38130	-.19810	.94070
1.196	.000	0.02280	-0.02990	-0.17580	0.03810	1.14650	.20460	.39120	-.20460	.94190
1.196	2.030	0.24240	0.31440	-0.12910	0.06650	1.16050	.21380	.48730	-.21380	.94670
1.196	4.070	0.37440	0.62190	-0.10640	0.07650	1.15090	.22290	.44130	-.22290	.92840
1.196	6.110	0.58350	0.95900	-0.07040	0.09280	1.16520	.23330	.44350	-.23330	.92980
1.196	8.160	0.78200	1.34910	-0.03410	0.09540	1.19300	.24390	.43310	-.24390	.94900
1.196	10.190	0.96590	1.69860	0.03810	0.10040	1.20190	.25790	.42690	-.25790	.96390
1.196	GRADIENT	0.8160	-0.01220	-0.16280	0.03730	1.12360	.18700	.87650	-.18700	.93650
		0.8368	-0.15032	-0.01814	0.01013	.00017	.00316	.00888	-.00316	-.00297

RUN NO. 7 / 0 RM/L = 6.30 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYL	CA	CAB	XCP/L	CPBI	CAF
3.480	-10.290	-1.03230	-1.72000	-0.4680	-0.11770	.79980	.05470	.44460	-.05470	.74510
3.480	-8.290	-0.78620	-1.41920	-0.0110	-0.10990	.78760	.05300	.42300	-.05300	.73460
3.480	-6.210	-0.53210	-1.08870	0.05620	-0.08350	.76880	.04840	.39250	-.04840	.72040
3.480	-4.210	-0.32870	-0.73900	0.04820	-0.04000	.73980	.04470	.36690	-.04470	.69320
3.480	-2.170	-0.13800	-0.37230	0.06430	-0.01570	.72110	.04040	.31010	-.04040	.68070
3.480	.000	0.02510	-0.03780	0.04290	0.00540	.70620	.03410	.48140	-.03410	.67210
3.480	1.890	0.17690	0.28630	0.02990	0.02010	.71500	.03500	.44670	-.03500	.68000
3.480	3.920	0.33940	0.59300	0.01260	0.03240	.72770	.04160	.49030	-.04160	.68600
3.480	5.940	0.53300	0.92240	-0.01190	0.03660	.73860	.04330	.43360	-.04330	.69330
3.480	8.000	0.76740	1.28480	-0.06430	0.0250	.75730	.04740	.43960	-.04740	.70990
3.480	9.980	1.03250	1.69790	-0.16900	0.0250	.75860	.05170	.44330	-.05170	.70690
3.480	GRADIENT	0.82480	1.89790	0.20810	0.09340	.75860	.05320	.43430	-.05320	.67340
		-0.140	-0.05150	-0.01290	0.11170	.70860	.03320	.91430	-.03320	.91430
		0.8126	-0.16352	-0.01549	0.00889	-.00132	-.00057	.01306	.00057	-.00073

WSPC 307(744) TITAN III C 3HM (INDETP)

(R07612) (23 APR 74)

REFERENCE DATA

BEEP = .0360 94. IN XMRP = 4.6338 IN.
 LEEP = .9000 IN. YMRP = .0000 IN.
 BEEP = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 397.500

RUN NO. 137/ 0 RM/L = 6.97 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	10.890	.97350	1.76280	.07250	.27120	.10090	1.19260	.18300	.42230	-.18300	.96950
1.198	12.450	1.16970	2.16520	-.14340	.26000	.11470	1.16630	.19790	.41720	-.19790	.96840
1.198	14.700	1.47500	2.61050	.26700	.23850	.11690	1.16610	.22320	.42750	-.22320	.94480
1.198	16.780	1.81840	3.12950	.41340	.20150	.12030	1.15830	.24190	.43370	-.24190	.91640
1.198	18.980	2.20770	3.68050	.56840	.19630	.13970	1.13520	.25110	.44050	-.25110	.88400
1.198	21.010	2.64480	4.33010	.77820	.14200	.15670	1.11160	.25910	.44740	-.25910	.85260
1.198	23.130	3.20948	5.01750	.98180	.13240	.17520	1.07760	.25500	.45360	-.25500	.82260
1.198	25.260	3.77540	5.69520	1.15750	.11340	.19500	1.04090	.26830	.46060	-.26830	.80250
1.198	27.388	4.40310	6.49550	1.31820	.12180	.21890	1.07410	.30230	.46490	-.30230	.77180
1.198	29.530	5.06230	7.33200	1.47350	.15870	.20000	1.05470	.32010	.46820	-.32010	.73450
1.198	31.600	5.69610	8.11980	1.78800	.14350	.21310	1.03220	.33510	.47110	-.33510	.69710
1.198	21.010	2.69500	4.33000	.77800	.19230	.15430	1.09430	.24850	.44810	-.24850	.84580
GRADIENT		.22893	.30536	.57758	-.00704	.00538	-.00659	.00684	.00271	-.00684	-.01344

RUN NO. 6/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	10.490	1.03220	1.69770	.20800	-.15540	.07610	.78930	.05820	.44330	-.05820	.73010
3.480	12.460	1.29910	2.02760	.22960	-.23260	.09740	.80190	.06390	.45390	-.06390	.73810
3.480	14.516	1.60350	2.41170	.23450	-.22550	.12300	.82230	.06850	.46140	-.06850	.73380
3.480	16.530	1.91120	2.74030	.23360	-.23560	.13340	.84370	.06590	.47010	-.06590	.77780
3.480	18.610	2.25740	3.06930	.24590	-.23990	.13920	.86340	.06350	.47920	-.06350	.79980
3.480	20.670	2.62150	3.44450	.25990	-.20190	.15910	.88050	.06100	.48540	-.06100	.81950
3.480	22.730	3.00730	3.78850	.29510	-.19750	.17090	.89870	.06090	.49200	-.06090	.83770
3.480	24.790	3.38080	4.09150	.27820	-.20770	.18740	.91850	.06200	.49870	-.06200	.85640
3.480	26.830	3.81970	4.43310	.30170	-.28400	.22880	.94330	.06140	.50460	-.06140	.88390
3.480	28.910	4.24190	4.80770	.30850	-.27560	.23970	.97720	.05560	.50900	-.05560	.92160
3.480	30.900	4.68880	5.19970	.32750	-.27860	.24830	.99330	.04620	.51110	-.04620	.94710
3.480	20.670	2.61200	3.42078	.25950	-.18130	.17580	.88210	.05950	.48570	-.05950	.82250
GRADIENT		.17823	.16911	.00540	-.00385	.00831	.01012	-.00055	.00335	-.00335	.01247



DATE 11 JUL 74
 TABULATED SOURCE DATA, NSFC TWT 507
 NSFC 307 (PA4) TITAN III C 3RM (MBETP)

(R07014) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 337.500

REFERENCE DATA

BREF = .016C 30. IN XMRP = 4.0330 IN.
 LBREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 176/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACR	ALPHA	CMW	CLMW	CTM	CTMW	CBL	CA	CAB	XCP/L	CP81	CAF
1.197	50.000	9.79130	13.07200	.49720	-.36490	.36960	.07600	.00000	.48250	.00000	-.07600
1.197	52.770	10.21360	13.27110	.57960	-.30090	.33720	.04290	.00000	.48700	.00000	-.04290
1.197	54.750	10.61220	13.39310	.63060	-.36200	.42150	.00620	.00000	.49170	.00000	-.00620
1.197	56.730	10.97190	13.53420	.66910	-.40310	.43790	.75760	.00000	.49540	.00000	-.75760
1.197	58.790	11.34340	13.71320	.70520	-.44370	.45130	.71910	.00000	.49850	.00000	-.71910
1.197	60.700	11.61450	13.76200	.74410	-.54320	.46660	.07420	.00000	.50150	.00000	-.07420
1.197	62.770	11.90390	13.89000	.76920	-.69830	.46990	.03660	.00000	.50560	.00000	-.03660
1.197	64.760	12.05910	13.43150	.79160	-.84040	.46170	.66300	.00000	.51050	.00000	-.66300
1.197	66.710	12.23360	13.04510	.83110	-.90100	.50360	.58100	.00000	.51650	.00000	-.58100
1.197	68.720	12.40890	12.85460	.89510	-.94690	.51060	.55560	.00000	.52120	.00000	-.55560
1.197	70.600	12.79360	12.65930	.95670	-1.04420	.53240	.53540	.00000	.52650	.00000	-.53540
1.197	60.700	11.59270	13.07090	.74190	-.59770	.49230	.07640	.00000	.50220	.00000	-.07640
GRADIENT		-.14316	-.02283	.02042	-.03851	.00757	-.01795	.00000	.00214	.00000	-.01795

RUN NO. 315/ 0 RM/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

MACR	ALPHA	CMW	CLMW	CTM	CTMW	CBL	CA	CAB	XCP/L	CP81	CAF
3.400	50.490	9.75630	8.23660	.19440	-.71310	.53280	1.04990	.00000	.53240	.00000	1.04990
3.400	52.380	9.17630	8.53550	.50700	-.74860	.35060	1.04060	.00000	.53350	.00000	1.04060
3.400	54.410	9.59650	9.05500	.51930	-.80420	.35590	1.01070	.00000	.53470	.00000	1.01070
3.400	56.420	9.95390	9.04790	.51930	-.86870	.36930	.97290	.00000	.53620	.00000	.97290
3.400	58.440	10.30920	9.19760	.54500	-.94900	.38170	.94550	.00000	.53660	.00000	.94550
3.400	60.440	10.66600	9.35510	.54570	-1.03320	.40640	.91450	.00000	.54050	.00000	.91450
3.400	62.420	10.97160	9.41800	.55950	-1.09410	.40190	.87840	.00000	.54280	.00000	.87840
3.400	64.450	11.27750	9.52530	.57210	-1.17730	.43050	.85010	.00000	.54460	.00000	.85010
3.400	66.430	11.56900	9.62000	.59250	-1.23240	.44020	.79380	.00000	.54620	.00000	.79380
3.400	68.450	11.84430	9.72980	.59920	-1.26700	.45000	.75510	.00000	.54750	.00000	.75510
3.400	70.330	12.11640	9.78230	.60770	-1.32190	.45600	.71130	.00000	.54930	.00000	.71130
3.400	60.420	10.02470	9.32370	.54490	-1.02770	.42330	.91330	.00000	.54040	.00000	.91330
GRADIENT		-.16714	-.07221	.00579	-.03230	.00641	-.01746	.00000	.00089	.00000	-.01746

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HSPC 907 (744) TITAN III C SRM (HDETP)

(RST013) (23 APR 74)

REFERENCE DATA

SREF = .000 80. IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 SREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 337.900

RUN NO. 177/ 0 RM/L = 0.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	70.760	12.42190	12.34340	.92940	-.99370	.51790	.50020	.00000	.52370	.00000	.50020
1.196	72.650	12.69340	12.13100	.97940	-1.09690	.52790	.55240	.00000	.53050	.00000	.55240
1.196	74.610	12.92360	11.86420	1.02910	-1.14920	.54740	.53170	.00000	.53530	.00000	.53170
1.196	76.590	13.09800	11.59850	1.08390	-1.20700	.56790	.49350	.00000	.53950	.00000	.49350
1.196	78.580	13.33970	11.41140	1.10990	-1.27550	.58270	.46070	.00000	.54320	.00000	.46070
1.196	80.580	13.53970	11.18860	1.16350	-1.37060	.60350	.44090	.00000	.54690	.00000	.44090
1.196	82.580	13.74490	10.95330	1.22490	-1.43390	.61600	.43290	.00000	.55150	.00000	.43290
1.196	84.540	13.87000	10.49350	1.27700	-1.47870	.62630	.40920	.00000	.55370	.00000	.40920
1.196	86.490	13.91600	10.04970	1.30610	-1.47680	.63420	.39700	.00000	.56010	.00000	.39700
1.196	88.490	13.91620	9.63340	1.32000	-1.47620	.64080	.38030	.00000	.56390	.00000	.38030
1.196	90.370	13.92890	9.33130	1.34190	-1.51220	.64080	.33760	.00000	.56670	.00000	.33760
1.196	90.380	13.54580	11.10810	1.16810	-1.35280	.60360	.45640	.00000	.54890	.00000	.45640
GRADIENT		.00009	-.13319	.02212	-.02679	.00661	-.01153	.00000	.00209	.00000	-.01153

RUN NO. 314/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	70.500	12.34000	9.73900	.60030	-1.33240	.43000	.73290	.00000	.54910	.00000	.73290
3.480	72.380	12.29290	9.67830	.58930	-1.44480	.43770	.71240	.00000	.55150	.00360	.71240
3.480	74.400	12.40330	9.60990	.58240	-1.52610	.45360	.67490	.00000	.55330	.00000	.67490
3.480	76.390	12.68960	9.67220	.59770	-1.55010	.45350	.60990	.00000	.55500	.00000	.60990
3.480	78.410	12.84070	9.53990	.60000	-1.59560	.46850	.55000	.00000	.55740	.00000	.55930
3.480	80.400	12.99320	9.48180	.61660	-1.59940	.46020	.50510	.00000	.55930	.00000	.50510
3.480	82.380	13.09370	9.40040	.63690	-1.62670	.47990	.43980	.00000	.56060	.00000	.43980
3.480	84.400	13.19740	9.38050	.64160	-1.63560	.49090	.37340	.00000	.56150	.00000	.37340
3.480	86.370	13.26080	9.30390	.64620	-1.63480	.48940	.32160	.00000	.56270	.00000	.32160
3.480	88.390	13.27940	9.16500	.65600	-1.60430	.48340	.25360	.00000	.56410	.00000	.25360
3.480	90.280	13.28290	9.03250	.66050	-1.49010	.49700	.20360	.00000	.56560	.00000	.20360
3.480	90.390	12.97100	9.44350	.61010	-1.59840	.49080	.50970	.00000	.55930	.00000	.50970
GRADIENT		.00370	-.03452	.00454	-.00923	.00927	-.02846	.00000	.00681	.00000	-.02846



TAL-LATED SOURCE DATA, MSFC TWT 587

DATE .1 JUN 74

(097010) (23 APR 74)

MSFC 587(PA4) TITAN III C SRM (MSBTP)

PARAMETRIC DATA

REFERENCE DATA

ANZP = .0300 IN. INRP = 4.6330 IN.
 LBZP = .0000 IN. YMRP = .0000 IN.
 DBZP = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 337.500

RUN NO. 236/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

ANZ	ALPHA	CMH	CLMW	CTM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	109.367	12.48210	5.79440	1.86750	-1.36090	.63500	-.52640	.00000	.59250	.00000	-.52640
1.202	107.450	12.64490	5.85690	1.91550	-1.37000	.64370	-.40250	.00000	.59250	.00000	-.40250
1.202	105.450	12.83140	6.02510	1.96000	-1.39200	.65900	-.25960	.00000	.59200	.00000	-.25960
1.202	103.450	13.07030	6.30720	2.01580	-1.41060	.67980	-.13170	.00000	.59040	.00000	-.13170
1.202	101.450	13.31580	6.59380	2.06160	-1.44310	.70820	-.01150	.00000	.58880	.00000	-.01150
1.202	99.440	13.53950	6.92840	2.09210	-1.44800	.70480	.09220	.00000	.58670	.00000	.09220
1.202	97.450	13.60070	7.38390	2.10010	-1.49140	.72160	.19120	.00000	.58320	.00000	.19120
1.202	95.470	13.86620	7.85420	2.12290	-1.55030	.73280	.27250	.00000	.57990	.00000	.27250
1.202	93.490	13.99020	8.28030	2.11720	-1.54660	.73320	.35340	.00000	.57560	.00000	.35340
1.202	91.510	14.02390	8.72490	2.10870	-1.49220	.73140	.41620	.00000	.57270	.00000	.41620
1.202	89.650	14.04180	9.13790	2.10360	-1.45690	.72880	.45640	.00000	.56910	.00000	.45640
1.202	89.460	13.49220	8.93560	2.07980	-1.43980	.71170	.06970	.00000	.58640	.00000	.06970
1.202	GRADIENT	-.08680	-.17798	-.01223	.00612	-.00526	-.05066	.00000	.00124	.00000	-.05066

RUN NO. 269/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

ANZ	ALPHA	CMH	CLMW	CTM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.520	11.71740	6.12320	.99770	-.66030	.36550	-.44730	.00000	.58530	.00000	-.44730
3.400	107.650	11.99950	6.47800	1.02040	-.69620	.39620	-.34670	.00000	.58310	.00000	-.34670
3.400	105.630	12.24320	6.85280	1.04250	-.72590	.39540	-.25480	.00000	.58060	.00000	-.25480
3.400	103.630	12.47290	7.17050	1.04590	-.75210	.38920	-.17330	.00000	.57660	.00000	-.17330
3.400	101.640	12.67240	7.50100	1.05610	-.81520	.38990	-.08980	.00000	.57660	.00000	-.08980
3.400	99.620	12.86990	7.79650	1.07320	-.84740	.40270	-.00500	.00000	.57480	.00000	-.00500
3.400	97.650	13.02320	8.10900	1.07770	-.92080	.40460	.06790	.00000	.57270	.00000	.06790
3.400	95.630	13.12520	8.35290	1.07660	-.99720	.40360	.14440	.00000	.57090	.00000	.14440
3.400	93.660	13.24090	8.56310	1.06850	-1.05940	.41210	.21060	.00000	.56960	.00000	.21060
3.400	91.640	13.34350	8.83790	1.09810	-1.07440	.41230	.27280	.00000	.56770	.00000	.27280
3.400	89.770	13.40650	9.14610	1.09450	-1.10290	.42140	.32570	.00000	.56510	.00000	.32570
3.400	89.640	12.83200	7.77680	1.00060	-.87160	.39010	-.01130	.00000	.57480	.00000	-.01130
3.400	GRADIENT	-.08447	-.14919	-.00464	.02434	-.00150	-.03901	.00000	.00098	.00000	-.03901

NSPC 507(F44) TITAN III C 3RM (INSTR)

(1807017) (23 APR 74)

REFERENCE DATA

REFP = .0300 50. IN XMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
ORFP = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 3.57.500

RUN NO. 239/ 0 RM/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	120.300	9.62800	2.04770	1.43990	-1.30620	.46640	-1.46130	.00000	.62460	.00000	-1.46130
1.202	127.390	9.93610	2.21410	1.49930	-1.40970	.49280	-1.36110	.00000	.62330	.00000	-1.36110
1.202	125.360	10.39760	2.57750	1.58440	-1.43110	.52810	-1.26950	.00000	.62010	.00000	-1.26950
1.202	123.390	10.63770	2.99340	1.67680	-1.35760	.53390	-1.16360	.00000	.61680	.00000	-1.16360
1.202	121.390	11.20080	3.59420	1.74710	-1.28690	.57160	-1.09870	.00000	.61310	.66000	-1.09870
1.202	119.370	11.40980	3.83990	1.79780	-1.31230	.59760	-1.09710	.00000	.60920	.00000	-1.09710
1.202	117.390	11.73450	4.18100	1.81040	-1.37790	.60810	-1.08370	.00000	.60640	.50000	-1.08370
1.202	115.380	11.88190	4.43420	1.82060	-1.37580	.61220	-1.07660	.00000	.60420	.00000	-1.07660
1.202	113.390	12.09170	4.61030	1.84760	-1.45230	.63000	-1.04950	.00000	.60320	.00000	-1.04950
1.202	111.370	12.34720	4.81330	1.90070	-1.50670	.65260	-1.03420	.00000	.60210	.00000	-1.03420
1.202	109.490	12.57070	5.07840	1.94430	-1.44120	.66390	-1.02360	.00000	.60040	.00000	-1.02360
1.202	119.390	11.41960	3.86090	1.77190	-1.27830	.58280	-1.09370	.00000	.60870	.00000	-1.09370
GRADIENT		-.14603	-.16119	-.02404	.00397	-.00952	-.05193	.00000	.00131	.00000	-.05193

RUN NO. 268/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	129.530	8.11580	3.21110	.72990	-.45960	-.30840	-1.42740	.00000	.60140	.00000	-1.42740
3.480	127.660	8.32580	3.43650	.75490	-.48910	-.31000	-1.32720	.00000	.60050	.00000	-1.32720
3.480	125.630	8.97450	3.71020	.78560	-.50870	-.31030	-1.22140	.00000	.59920	.00000	-1.22140
3.480	123.620	9.34640	3.95760	.81630	-.52740	-.32170	-1.10920	.00000	.59790	.00000	-1.10920
3.480	121.610	9.73250	4.19940	.85970	-.53290	-.32050	-1.00150	.00000	.59680	.00000	-1.00150
3.480	119.610	10.10430	4.44730	.88990	-.53800	-.33070	-.88990	.00000	.59580	.00000	-.88990
3.480	117.600	10.45130	4.73620	.92150	-.57150	-.33250	-.79170	.00000	.59410	.00000	-.79170
3.480	115.580	10.77200	5.01360	.95000	-.57030	-.33100	-.68060	.00000	.59260	.00000	-.68060
3.480	113.600	11.10940	5.32480	.97930	-.58820	-.34520	-.58270	.00000	.59080	.00000	-.58270
3.480	111.580	11.40140	5.65720	1.01930	-.62410	-.35400	-.46890	.00000	.58870	.00000	-.46890
3.480	109.700	11.66410	5.97000	1.04410	-.62260	-.35210	-.38360	.00000	.58680	.00000	-.38360
3.480	119.610	10.06740	4.44150	.89700	-.55590	-.30630	-.90140	.00000	.59560	.00000	-.90140
GRADIENT		-.17687	-.13727	-.01603	.00786	-.00241	-.05295	.00000	.00072	.00000	-.05295



MSFC 907 (FA4) TITAN III C SRM (MDETP)

(897019) (23 APR 74)

REFERENCE DATA

DEEP = .0300 IN ZMRP = 4.330 IN.
 LEEP = .9000 IN. ZMRP = .0000 IN.
 SEEP = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 337.900

RUN NO. 101/ 0 RM/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	169.316	1.13800	-.99920	.74930	.43930	.06930	-1.07370	.16020	.76140	-.18820	-2.03990
1.198	167.340	1.43900	-.97270	1.01020	.54390	.07970	-1.92000	.22220	.73700	-.22220	-2.14260
1.198	165.280	1.80420	-.97080	1.35420	.79580	.08980	-1.93660	.24540	.72010	-.24540	-2.20200
1.198	163.150	2.24230	-1.00310	1.65850	.92730	.10940	-1.97610	.26180	.70810	-.26180	-2.23000
1.198	161.060	2.72180	-1.04930	1.83530	.92110	.12600	-2.00940	.29310	.70210	-.29310	-2.29880
1.198	158.920	3.20440	-1.21180	1.92400	.77330	.14960	-2.01890	.29930	.69930	-.29930	-2.31480
1.198	156.800	3.70760	-1.27270	1.99520	.44430	.18300	-2.01270	.29930	.69490	-.29930	-2.31210
1.198	154.680	4.26830	-1.13250	1.72400	-.36330	.20970	-2.03900	.34680	.68030	-.34680	-2.38980
1.198	152.580	4.87340	-.89640	1.31330	-1.16090	.24800	-2.04430	.41520	.67370	-.41520	-2.45980
1.198	150.440	5.51190	-.22230	1.39330	-1.74220	.27390	-2.02760	.46810	.65630	-.46810	-2.49600
1.198	148.420	6.31750	.31670	1.39860	-1.94770	.30020	-1.99390	.47110	.64510	-.47110	-2.45500
1.198	150.910	3.22940	-1.16490	1.92890	.80320	.15380	-1.99700	.27900	.69790	-.27900	-2.27610
GRADIENT		-.24574	-.04046	-.02314	.13031	-.01160	.00599	-.01322	.00472	.01332	-.01932

RUN NO. 40/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	169.550	.72090	-.04430	.23400	.24790	.07390	-1.03230	.06590	.63930	-.06590	-1.09020
3.480	167.610	.98810	.03860	.29700	.20790	.06320	-1.03720	.06720	.64380	-.06720	-1.92450
3.480	165.980	1.22610	.19190	.32900	.24670	.08200	-1.00280	.07020	.63170	-.07020	-1.93300
3.480	163.550	.93310	.29170	.34020	.10780	.10200	-1.90440	.07290	.62740	-.07290	-1.97730
3.480	161.500	1.08800	.43420	.35540	.01070	.11400	-1.92940	.07670	.62200	-.07670	-2.00820
3.480	159.420	2.21140	.51400	.37110	-.07660	.14030	-1.93220	.07390	.62210	-.07390	-2.00610
3.480	157.370	2.98900	.82430	.41760	-.11730	.15740	-1.94540	.06620	.62090	-.06620	-2.01170
3.480	155.300	2.97030	.69960	.45750	-.13630	.16140	-1.96130	.06140	.62170	-.06140	-2.02280
3.480	153.260	3.36930	.78150	.49700	-.10750	.18990	-1.97500	.05510	.62210	-.05510	-2.03020
3.480	151.180	3.76700	.88990	.53170	-.21910	.22660	-1.98750	.04900	.62160	-.04900	-2.03690
3.480	149.190	4.17010	.93640	.56600	-.24490	.23590	-2.00410	.04200	.62310	-.04200	-2.04610
3.480	159.430	2.19970	.92240	.37690	-.05570	.11500	-1.93790	.07230	.62140	-.07230	-2.01030
GRADIENT		-.17110	-.04887	-.01510	.02825	-.00833	.00793	.00122	.00136	-.00122	-.00871

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 507 (TAA) TITAN III C SRN (MECTP)

(R07020) (23 APR 74)

REFERENCE DATA

DEEP = .0300 50. IN XMP = 4.0338 IN.
 LEEP = .0000 IN. YMP = .0000 IN.
 DEEP = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 337.500

RUN NO. 102/ 0 RM/L = 1.03 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CTWM	CSL	CA	CAB	XCP/L	CPB1	CAF
1.199	190.210	-.09740	1.39310	.09640	.52070	-.20700	-1.70460	.17900	.64790	-.17990	-1.90480
1.199	188.230	-.09250	1.13330	.06470	.43350	-.15740	-1.73750	.19340	.87920	-.19340	-1.89100
1.199	186.190	-.08310	.87270	.04300	.33020	-.11050	-1.68840	.13690	.60000	-.13690	-1.82330
1.199	184.130	-.07190	.59430	.04140	.23070	-.06940	-1.65900	.13030	.89180	-.13030	-1.78940
1.199	182.060	-.06100	.24740	.05780	.14480	-.03020	-1.64610	.11930	.91340	-.11930	-1.76950
1.199	179.980	-.07600	-.01690	.10470	.20960	-.00990	-1.64200	.12640	.62320	-.12640	-1.76840
1.199	177.920	-.03090	-.27910	.12090	.18350	.03330	-1.67710	.13180	.80450	-.13180	-1.80370
1.199	175.860	-.01860	-.52620	.17070	.12320	.04280	-1.71470	.12320	.81120	-.12320	-1.83790
1.199	173.810	-.04080	-.72890	.28830	.08340	.06560	-1.73990	.13620	.79510	-.13620	-1.87610
1.199	171.720	-.00140	-.84050	.31110	.24130	.07250	-1.80480	.16990	.77030	-.16990	-1.97430
1.199	169.760	1.17240	-.90360	.76500	.46060	.08520	-1.87420	.20260	.74950	-.20260	-2.07690
1.199	179.970	-.09450	.01980	.10030	.19730	-.01860	-1.64270	.12360	.63030	-.12360	-1.76840
GRADIENT		-.09374	.11931	-.02734	.09965	-.01414	.00449	-.00077	.00659	-.00077	.00525

RUN NO. 39/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CTWM	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.190	-.71760	.57660	-.05630	.15030	-.10620	-1.79810	.09400	.75320	-.09400	-1.89220
3.400	188.260	-.52350	.59290	-.04220	.12340	-.07790	-1.77940	.05170	.79420	-.05170	-1.83110
3.400	186.230	-.38650	.48320	-.03230	.09710	-.04870	-1.75940	.04350	.80970	-.04350	-1.80300
3.400	184.200	-.27090	.37530	-.04280	.04050	-.02850	-1.74200	.03630	.82680	-.03630	-1.77840
3.400	182.180	-.15630	.22590	-.04810	.04380	-.02050	-1.74550	.03360	.83440	-.03360	-1.77910
3.400	180.150	-.05390	.08370	-.04290	.01720	-.00630	-1.74370	.03440	.84780	-.03440	-1.77910
3.400	178.100	.07410	-.03020	-.03410	.01430	.00960	-1.75450	.03210	.70310	-.03210	-1.78670
3.400	176.100	.17760	-.13700	-.01690	.01490	.02020	-1.76250	.03290	.76340	-.03290	-1.79950
3.400	174.090	.31160	-.18250	-.09880	.04280	.03490	-1.77210	.03760	.72560	-.03760	-1.80590
3.400	172.040	.49830	-.17940	.13420	.15190	.04120	-1.79430	.04600	.69720	-.04600	-1.84060
3.400	170.690	.70730	-.09160	.22110	.24690	.09210	-1.81760	.05060	.66070	-.05060	-1.88840
3.400	168.150	-.06380	.10540	-.03670	.01990	-.02160	-1.74810	.03430	.85410	-.03430	-1.78290
GRADIENT		-.06497	.04302	-.01118	-.00140	-.00738	.00111	.00029	.00614	-.00029	.00582



TABULATED SOURCE DATA, MSFC TWT 987

(R97021) (25 APR 74)

DATE 11 JUN 74

MSFC 987(7AA) TITAN III C 88M (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

SRCP = .6300 88. IN XMRP = 4.6330 IN.
LREF = .9000 IN. YMRP = .0000 IN.
SRCP = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 141/ 0 RM/L = 4.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	COL	CA	CAB	XCP/L	CPB1	CAF
.988	-10.020	-1.98600	-1.27040	-26440	.28340	-.10390	.63240	.08270	.48840	-.04270	.98970
.988	-8.100	-1.76740	-.97760	-.27820	.29800	-.07100	.64230	.07140	.49020	-.07140	.97090
.988	-6.180	-.80430	-.74430	-.28590	.33450	-.03410	.61350	.06410	.49560	-.06410	.94930
.988	-4.080	-.42410	-.49750	-.24720	.35520	-.01940	.59050	.06060	.50300	-.06060	.92990
.988	-2.080	-.24210	-.18360	-.23980	.32630	.02470	.56920	.06060	.55550	-.06060	.49980
.988	-.020	-.12100	-.09320	-.23250	.35100	.02930	.54560	.06860	.73600	-.06860	.47700
.988	1.990	.07760	.38970	-.19440	.34510	.06000	.56620	.08300	.01600	-.08300	.48310
.988	4.010	.22000	.60650	-.20560	.33500	.06620	.57200	.08650	.30260	-.08650	.48550
.988	6.040	.42180	.95780	-.18700	.40240	.08110	.58720	.08410	.36410	-.08410	.50300
.988	8.060	.56070	1.34920	-.14960	.45990	.10370	.61320	.07770	.34700	-.07770	.53550
.988	10.090	.72240	1.60610	-.12030	.51330	.12740	.62340	.08680	.37010	-.08680	.53650
.988	-.020	-.12230	-.08300	-.22210	.37090	.06670	.55390	.06790	.73740	-.06790	.48790
.988	GRADIENT	.07947	-.13749	.00635	.00091	.01021	-.00154	.00367	-.04639	-.00367	-.00321

RUN NO. 140/ 0 RM/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	COL	CA	CAB	XCP/L	CPB1	CAF
.981	-10.100	-1.02180	-1.21000	-.24370	.29870	-.11920	.61000	.08170	.50060	-.08170	.72830
.981	-8.160	-.82170	-.95770	-.22760	.30730	-.08340	.60970	.07070	.50700	-.07070	.73690
.981	-6.140	-.62110	-.67050	-.22310	.30830	-.05700	.79150	.06240	.51460	-.06240	.72960
.981	-4.110	-.44800	-.41100	-.20230	.33040	-.02120	.75560	.05670	.53540	-.05670	.69690
.981	-2.070	-.23220	-.15630	-.20770	.34170	-.00210	.74270	.06610	.56520	-.06610	.67660
.981	-.010	-.06880	-.12190	-.17520	.35200	.01750	.73430	.06670	.67540	-.06670	.65750
.981	2.020	.13160	.42980	-.13590	.33800	.03360	.74820	.06020	.23870	-.06020	.68790
.981	4.050	.29330	.73240	-.15930	.32750	.05670	.76000	.08480	.33550	-.08480	.67520
.981	6.090	.47960	1.03050	-.06430	.31300	.06260	.78010	.08590	.37960	-.08590	.68410
.981	8.130	.63270	1.35660	-.00130	.31660	.06280	.79840	.09230	.38840	-.09230	.70610
.981	10.090	.86780	1.63660	-.04390	.41760	.08720	.80140	.10200	.40990	-.10200	.69940
.981	-.010	-.05650	-.11770	-.17440	.33020	.01570	.73660	.07290	.91490	-.07290	.84390
.981	GRADIENT	.09048	-.14085	.01174	-.00042	.00936	.00069	.00323	-.03546	-.00323	-.00256

MAFPC 907 (7A4) TITAN III C SRM (MDETP)

(R97021) (23 APR 74)

REFERENCE DATA

SREP = .0388 SQ. IN ZMRP = 4.6330 IN.
 LREP = .0000 IN. YMRP = .0000 IN.
 BRP = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 1997 0 RM/L = 0.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTM	CTMM	CSL	CA	CAB	KCP/L	CPB1	CAF
1.197	-10.170	-1.09220	-1.40508	-2.8360	.30060	-.12110	1.23590	.23100	.48170	-.23100	1.00400
1.197	-9.210	-.84160	-1.15080	-.28440	.31220	-.09410	1.21720	.22070	.47840	-.22070	.99030
1.197	-8.180	-.62250	-.82670	-.25330	.30560	-.05350	1.18010	.20500	.48340	-.20500	.97500
1.197	-4.120	-.40350	-.48240	-.22790	.28990	-.01470	1.15590	.20330	.50020	-.20330	.95240
1.197	-2.000	-.21320	-.19930	-.20250	.26950	-.00970	1.14100	.19240	.55690	-.19240	.94000
1.197	.000	.01620	.14000	-.18000	.25560	.05230	1.15040	.19250	-.44700	-.19250	.95700
1.197	2.030	.18760	.40860	-.16010	.22220	.06350	1.16290	.19260	.37620	-.19250	.97030
1.197	4.080	.56790	.78210	-.13780	.23220	.09240	1.14970	.19650	.39270	-.19650	.9310
1.197	6.120	.97730	1.10990	-.11170	.27230	.10370	1.16840	.20370	.40820	-.20370	.9460
1.197	8.190	.76670	1.50640	-.09420	.33380	.12650	1.19980	.21050	.40910	-.21050	.9423
1.197	10.100	1.03280	1.88000	-.06940	.32340	.14000	1.21350	.23190	.42110	-.23190	.9411
1.197	-.010	.01480	.09820	-.17010	.24690	.05620	1.12100	.17610	-.18430	-.17610	.94370
GRADIENT		.09479	.14807	.01089	-.00569	.01317	.00047	-.00065	-.01969	.00065	.00113

RUN NO. 1277 0 RM/L = 0.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTM	CTMM	CSL	CA	CAB	KCP/L	CPB1	CAF
1.982	-10.250	-1.19370	-1.01680	-1.2750	.10040	-.13350	.95370	.13280	.45880	-.13280	.82080
1.982	-8.270	-.89890	-1.39960	-.12150	.10640	-.11770	.93790	.11960	.45400	-.11960	.81800
1.982	-6.250	-.64760	-1.02480	-.11440	.13650	-.04270	.91260	.10950	.45120	-.10950	.80410
1.982	-4.130	-.41200	-.66600	-.10260	.14950	-.04960	.89250	.10260	.44690	-.10260	.78990
1.982	-2.090	-.20670	-.32290	-.08880	.12400	-.02230	.86720	.09370	.45370	-.09370	.77350
1.982	-.010	-.01930	.04270	-.07060	.11490	.00830	.87080	.08610	.45310	-.08610	.78270
1.982	2.040	.20110	.39510	-.05170	.12510	.04060	.89460	.09130	.48290	-.09130	.80330
1.982	4.100	.40640	.74930	-.02350	.11000	.06240	.88890	.09400	.41810	-.09400	.79410
1.982	6.170	.63300	1.12510	.00950	.10920	.07660	.93250	.10940	.42650	-.10940	.82280
1.982	8.240	.89330	1.55560	.06080	.10560	.11030	.94940	.12170	.43110	-.12170	.82770
1.982	10.290	1.21940	1.99820	.10390	.09550	.14950	.96160	.13480	.44430	-.13480	.84680
1.982	.000	.02270	.09400	-.04290	.12720	.09800	.85340	.08730	.12790	-.08730	.76610
GRADIENT		.09930	.17235	.00928	-.00373	.01393	.00098	-.00067	-.00917	.00067	.00106



IR070211 (23 APR 74)

MOPC 987 (EAA) TITAN III C SRM (MNETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

SREP = .6300 SG. IN YMRP = 4.6330 IN.
LREP = .9000 IN. YMRP = .0000 IN.
BREP = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 8 / 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPS1	CAF
3.480	-10.290	-1.16550	-1.70350	-.04230	-.02160	-.12790	.76070	.03730	.46960	-.03730	.73130
3.480	-8.300	-.09120	-1.39700	-.04360	-.00960	-.10050	.77800	.03410	.45310	-.03410	.72460
3.480	-6.250	-.00970	-1.03300	-.05090	.00940	-.07660	.76450	.05090	.43700	-.05090	.71360
3.480	-4.210	-.39150	-.70280	-.05920	.03360	-.04400	.74300	.04560	.42430	-.04560	.69810
3.480	-2.190	-.16740	-.36770	-.04760	.04000	-.00970	.71750	.04220	.40320	-.04220	.67530
3.480	-.140	.01520	-.04600	-.01890	.03000	.03010	.71450	.03690	1.03340	-.03690	.67750
3.480	1.090	.19220	.29690	.00340	.03040	.03740	.73130	.03640	.45600	-.03640	.69300
3.480	3.930	.36150	.58190	.03920	-.00920	.05020	.75490	.04300	.45840	-.04300	.71110
3.480	9.950	.60900	.92310	.07260	-.04200	.09050	.78220	.05100	.45960	-.05100	.73190
3.480	6.020	.67470	1.28000	.11370	-.07670	.12160	.79270	.05440	.46630	-.05440	.73930
3.480	9.990	1.19370	1.60490	.14290	-.13700	.14160	.80760	.05530	.47340	-.05530	.73230
3.480	-.140	.00360	-.08230	-.03160	.00700	.02920	.71440	.03620	3.47600	-.03620	.67810
GRADIENT		.09450	-.15664	.01199	-.00466	.01230	.00176	-.00036	.00601	.00036	.00215

RUN NO. 9 / 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPS1	CAF
4.959	-10.160	-1.06030	-1.51500	-.02100	.02660	-.14530	.69470	.02600	.47060	-.02600	.66660
4.959	-8.200	-.60280	-1.22710	.02020	.02370	-.12910	.68230	.02760	.45800	-.02760	.65440
4.959	-6.160	-.31730	-.88680	.02030	.06690	-.09240	.65440	.02760	.43400	-.02760	.62660
4.959	-4.160	-.34410	-.57210	.00370	.03210	-.06720	.63600	.02730	.44100	-.02730	.60970
4.959	-2.190	-.14360	-.32740	.00270	.04860	-.03460	.61360	.02560	.36290	-.02560	.58770
4.959	-.130	.02530	.01690	.02770	.03450	-.04010	.60080	.02430	.55660	-.02430	.57650
4.959	1.090	.13950	.19950	.04000	.02460	.00660	.62820	.02450	.47050	-.02450	.60360
4.959	3.090	.36790	.59240	.04660	-.04490	.02950	.66000	.02630	.44770	-.02630	.63370
4.959	5.900	.59110	.82690	.10320	-.10350	.01820	.67000	.02750	.47440	-.02750	.64340
4.959	7.920	.79070	1.10370	.11450	-.14510	.05400	.71590	.02930	.47480	-.02930	.68750
4.959	9.960	1.04530	1.45370	.13960	-.19070	.09420	.75410	.02930	.47530	-.02930	.70470
4.959	-.130	.02520	.01640	.02610	.03016	-.03670	.61660	.02500	.55690	-.02500	.59350
GRADIENT		.08474	-.1479	.00633	-.01279	.01165	.00310	-.00016	.00403	.00016	.00327

NSPC 507 (TAM) TITAN III C SRM (HEI7P)

(RST022) (23 APR 74)

REFERENCE DATA

BREF = .6300 IN INRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 319.000

RUN NO. 142/ 0 RM/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPBI	CAF
.506	10.540	1.04000	1.85510	-.10100	-.42000	.09400	.64100	.10050	.40200	-.10020	.54000
.506	12.480	1.06000	1.92950	-.07240	-.44560	.12650	.65130	.09910	.42130	-.09910	.55210
.506	14.460	1.20430	2.12020	-.07230	-.44320	.12060	.64300	.11720	.43040	-.11720	.52650
.506	16.510	1.54900	2.41400	-.04220	-.47760	.13140	.64630	.13990	.45430	-.13990	.50640
.506	18.520	1.86120	2.80040	.03770	-.53280	.15970	.64300	.15200	.46100	-.15200	.49100
.506	20.580	2.19800	3.13210	.17680	-.55450	.15410	.63250	.16400	.47120	-.16400	.46760
.506	22.610	2.56790	3.45100	.40260	-.40990	.19050	.62750	.17420	.48270	-.17420	.45330
.506	24.630	3.04220	3.76110	.90420	-.11740	.21840	.60550	.15620	.49420	-.15620	.44920
.506	26.670	3.52200	4.12930	1.39410	-.10190	.26400	.59210	.15310	.50310	-.15310	.43900
.506	28.730	4.06590	4.37500	1.91030	-.18750	.27400	.55440	.16170	.51530	-.16170	.39260
.506	30.700	4.67300	4.74790	2.39770	.02570	.30610	.52620	.17050	.52290	-.17050	.35570
.506	20.570	2.17450	3.08600	.16750	.58960	.18200	.63990	.16350	.47100	-.16350	.47630
GRADIENT		-.18707	.15548	-.12202	-.03189	-.01031	-.00546	.00342	.00571	-.00342	-.00808

RUN NO. 143/ 1 RM/L = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPBI	CAF
.902	10.620	1.07010	1.87440	.05450	.41420	.09950	.62120	.09530	.40790	-.09530	.72980
.902	12.570	1.12430	1.93290	.12920	.47660	.11480	.61460	.11460	.43390	-.11460	.69990
.902	14.600	1.41580	2.26330	.20440	.42980	.13010	.79760	.13090	.44910	-.13090	.66670
.902	16.670	1.73060	2.59230	.33920	.32940	.16450	.76170	.15200	.46190	-.15200	.62960
.902	18.720	2.14370	3.01850	.43190	.24140	.19140	.77500	.16340	.47330	-.16340	.60950
.902	20.810	2.53490	3.48640	.53870	.19330	.21250	.76650	.17410	.47740	-.17410	.59230
.902	22.900	3.03910	4.09990	.69280	.13180	.26110	.76950	.18440	.48070	-.18440	.58310
.902	25.000	3.57490	4.73910	.94990	.04620	.30660	.74700	.17670	.48370	-.17670	.57030
.902	27.090	4.16260	5.32420	1.30670	.03120	.34520	.70950	.17310	.48960	-.17310	.53440
.902	29.200	4.76370	5.95000	1.71000	.12770	.37930	.65340	.18100	.49400	-.18100	.47230
.902	31.250	5.52330	6.74210	2.15950	.40720	.40500	.60980	.16090	.49700	-.16090	.44130
.902	20.820	2.98330	3.51920	.61750	.22510	.22690	.76310	.17680	.47920	-.17680	.60430
GRADIENT		.22270	-.24575	.09519	-.01445	.01572	-.00897	.00364	.00375	-.00364	-.01260



(097022) (23 APR 74)

NSFC 507(YAA) TITAN III C SRM (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

0027 = .0300 SQ. IN TMRP = 4.0330 IN.
LREF = .0000 IN. TMRP = .0000 IN.
0027 = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 1447 0 RM/L = 0.57 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CHN	CLMN	CTH	CTVM	COL	CA	CAB	XCP/L	CPBI	CAF
1.199	17.700	1.04930	1.00900	-.07290	-.29000	.12440	1.22120	.24020	.43240	-.24020	-.90690
1.199	12.870	1.34220	2.19220	-.04600	-.30740	.14900	1.24760	.26160	.44480	-.26160	-.90800
1.199	14.730	1.71180	2.59000	.01400	-.29310	.17830	1.24070	.27420	.46230	-.27420	-.97240
1.199	10.080	2.13750	3.03030	.11100	-.27700	.22970	1.22040	.28630	.47370	-.28630	-.94210
1.199	10.830	2.06330	3.35810	.24400	-.20400	.29400	1.21390	.29890	.48230	-.29890	-.91890
1.199	21.070	3.22470	4.16190	.45600	-.14050	.29000	1.20300	.31410	.48810	-.31410	-.89030
1.199	23.200	3.64200	4.03400	.73730	-.10900	.32750	1.20210	.32970	.49220	-.32970	-.87260
1.199	29.350	4.49700	3.99890	.96860	-.04000	.30370	1.18060	.31830	.49350	-.31830	-.84230
1.199	27.490	5.16720	6.34410	1.14470	-.00000	.40160	1.13100	.33500	.49610	-.33500	-.79870
1.199	29.650	5.86870	7.09280	1.31000	-.05010	.44670	1.10410	.33560	.49900	-.33560	-.76840
1.199	31.700	6.62040	7.67050	1.46130	-.12330	.48730	1.07120	.34360	.50480	-.34360	-.72750
1.199	21.070	3.23770	4.19100	.47480	-.14340	.28790	1.19990	.30690	.48760	-.30690	-.89290
GRADIENT		.26800	.28705	.00054	-.02135	.01725	-.00785	.00466	.00313	-.00466	-.01233

RUN NO. 126/ 0 RM/L = 0.94 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CHN	CLMN	CTH	CTVM	COL	CA	CAB	XCP/L	CPBI	CAF
1.904	10.760	1.22750	1.98820	.10330	-.04800	.27150	.97310	.12290	.44650	-.12290	-.05620
1.904	12.760	1.62300	2.37120	.16120	-.03870	.17160	.96320	.13010	.46680	-.13010	-.03300
1.904	14.840	2.04550	2.84030	.23800	-.11370	.20680	.97410	.13510	.47370	-.13510	-.03900
1.904	16.900	2.50860	3.33920	.29710	-.14700	.22540	1.00890	.14950	.48300	-.14950	-.05450
1.904	19.100	3.00120	3.83990	.34450	-.18540	.25420	1.03190	.16200	.48950	-.16200	-.06990
1.904	21.210	3.50480	4.27010	.42490	-.26900	.29170	1.05230	.17460	.49740	-.17460	-.07760
1.904	23.330	4.02800	4.67760	.50200	-.39070	.33300	1.07350	.18030	.50540	-.18030	-.09000
1.904	25.420	4.52370	4.98650	.59450	-.43330	.37000	1.07040	.18030	.51200	-.18030	-.09000
1.904	27.550	5.10150	5.44910	.57540	-.52390	.41470	1.08750	.18120	.51630	-.18120	-.09120
1.904	29.830	5.59760	5.77900	.60870	-.57690	.45030	1.07610	.18480	.52080	-.18480	-.09120
1.904	31.090	6.14690	6.21360	.63150	-.56390	.48600	1.08070	.17830	.52350	-.17830	-.09240
1.904	21.100	3.49000	4.18730	.43440	-.28960	.28550	1.03150	.16720	.50100	-.16720	-.08420
GRADIENT		.23665	.20193	.02599	-.03110	.01378	.00661	.00307	.00344	-.00307	-.00344

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSPC 507 (PA4) TITAN III C SRM (MNETP)

(RST022) (23 APR 74)

REFERENCE DATA

REF = .0300 90. IN XHP = 4.6336 IN.
 LREF = .0000 IN. YHP = .0000 IN.
 DREF = .9000 IN. ZHP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 313.000

RUN NO. 11/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CTW	CTWN	CBL	CA	CAB	KCP/L	CFB1	CAF
3.400	10.300	1.19270	1.64490	.14210	-.12230	.12090	.84370	.04700	.47090	-.06700	.77680
3.400	12.470	1.45910	1.94740	.14850	-.17790	.14490	.86960	.07070	.46260	-.07070	.79080
3.400	14.540	1.79090	2.31040	.16300	-.22430	.16780	.89040	.07310	.46010	-.07310	.81730
3.400	16.590	2.13260	2.69610	.19250	-.24620	.19470	.92370	.07700	.49150	-.07700	.84860
3.400	18.630	2.48450	3.03220	.19630	-.31790	.21750	.94910	.07750	.49580	-.07750	.87160
3.400	20.690	2.83360	3.36790	.21410	-.35000	.24560	.98200	.07760	.50100	-.07760	.90430
3.400	22.770	3.28600	3.73680	.23770	-.41300	.27660	1.01250	.07650	.50560	-.07650	.93600
3.400	24.810	3.69500	4.02620	.29330	-.46680	.30440	1.05340	.07160	.51360	-.07160	.98180
3.400	26.850	4.14990	4.34540	.35600	-.52770	.32960	1.07600	.06710	.52200	-.06710	1.03000
3.400	28.940	4.63170	4.73980	.40040	-.58136	.39370	1.10390	.06080	.52500	-.06080	1.04300
3.400	30.930	5.11260	5.07680	.45130	-.53670	.42030	1.11340	.05440	.52580	-.05440	1.05900
3.400	20.690	2.83310	3.39690	.21420	-.33020	.26230	.99040	.07670	.49980	-.07670	.91370
GRADIENT		.19296	.16757	.01500	-.02194	.01426	.01403	-.00059	.00257	-.00059	.01462

RUN NO. 10/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CTW	CTWN	CBL	CA	CAB	KCP/L	CFB1	CAF
4.959	10.300	1.01970	1.40260	.11140	-.21140	.05650	.77690	.03060	.47740	-.03060	.74620
4.959	12.310	1.24690	1.73050	.13770	-.19660	.11170	.60710	.03100	.47580	-.03100	.77520
4.959	14.350	1.50470	1.94630	.12140	-.27230	.11530	.63640	.03340	.48420	-.03340	.80300
4.959	16.330	1.81500	2.22640	.16220	-.33750	.12050	.67010	.03360	.49620	-.03360	.83640
4.959	18.390	2.18500	2.50750	.17570	-.37740	.14640	.91600	.03340	.50620	-.03340	.86260
4.959	20.400	2.55260	2.78780	.21770	-.39690	.18250	.96260	.03210	.51320	-.03210	.93040
4.959	22.450	3.03310	3.06290	.24590	-.46800	.19590	1.02190	.03160	.52380	-.03160	.99030
4.959	24.470	3.45910	3.36530	.30250	-.46750	.26480	1.08160	.03230	.52760	-.03230	1.04920
4.959	26.480	3.91310	3.66940	.33030	-.54300	.27940	1.10520	.03110	.53280	-.03110	1.07400
4.959	28.510	4.38360	4.01190	.36720	-.53630	.31360	1.12940	.02860	.53510	-.02860	1.09980
4.959	30.480	4.81630	4.38820	.42900	-.55720	.36430	1.14340	.02160	.53620	-.02160	1.12160
4.959	20.400	2.55280	2.78800	.21770	-.39730	.19070	.97160	.03030	.51330	-.03030	.94130
GRADIENT		.19294	.14403	.01605	-.01924	.01430	.02007	-.00031	.00341	-.00031	.02036



NSFC 907 (PA4) (ITAN 111 C SRM (MBETP))

(R07023) (23 APR 74)

REFERENCE DATA

SREF = .036F 90. IN YMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 315.000

PARAMETRIC DATA

RUN NO. 145/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	31.910	6.68230	7.54260	1.43710	-.10090	.51090	1.07370	.31900	.90860	-.31900	.75390
1.197	33.940	7.36430	8.19000	1.47140	-.15300	.56220	1.03740	.35500	.91070	-.35500	.68130
1.197	36.080	8.04800	8.80810	1.46210	-.25910	.62040	.99850	.38160	.91290	-.38160	.61680
1.197	38.220	8.78290	9.46130	1.51420	-.39230	.67640	.95430	.38740	.91510	-.38740	.56700
1.197	40.360	9.51020	10.13460	1.56610	-.55690	.74040	.89410	.34390	.91660	-.34390	.55010
1.197	42.500	10.14450	10.78140	1.54790	-.66270	.80720	.82360	.30440	.91700	-.30440	.51910
1.197	44.640	10.73700	11.62440	1.46370	-.82330	.85950	.71650	.25130	.91490	-.25130	.46310
1.197	46.790	11.24520	12.20530	1.33950	-.95860	.84760	.69880	.20320	.91410	-.20320	.41590
1.197	48.930	11.60400	12.66040	1.32220	-.88460	.83590	.66320	.30830	.91340	-.30830	.35490
1.197	50.920	12.00220	13.20550	1.36330	-.74490	.80650	.62800	.35610	.91220	-.35610	.29270
1.197	52.930	12.30970	13.50030	1.38720	-.59070	.83640	.55500	.30050	.91160	-.30050	.25520
1.197	42.500	13.14270	10.62740	1.44310	-.49120	.81580	.83000	.30170	.91090	-.30170	.52930
GRADIENT		.27319	.29574	-.00668	-.02932	.01634	-.02545	-.00302	.00006	.00302	-.02243

RUN NO. 12/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	30.990	5.16270	5.04900	.48970	-.58590	.41840	1.11960	.02570	.52770	-.02570	1.09360
3.480	32.990	5.64110	5.39910	.54320	-.61090	.45680	1.13180	.01410	.53030	-.01410	1.11760
3.480	35.070	6.13460	5.83040	.60110	-.63030	.49950	1.14230	.00650	.53120	-.00650	1.13370
3.480	37.140	6.63330	6.19790	.65780	-.66950	.53700	1.14840	-.01090	.53360	.01090	1.15930
3.480	39.190	7.17270	6.60660	.70920	-.68900	.57730	1.15390	-.02510	.53490	.02510	1.17900
3.480	41.280	7.65420	6.94420	.74690	-.69560	.60150	1.15150	-.04670	.53670	.04670	1.19830
3.480	43.370	8.13670	7.30950	.77400	-.66950	.62730	1.13390	-.06870	.53780	.06870	1.20270
3.480	45.420	8.64810	7.66860	.80730	-.65990	.66890	1.11100	-.09690	.53920	.09690	1.20800
3.480	47.480	9.11290	8.00770	.85150	-.67800	.69100	1.07980	-.13270	.54030	.13270	1.21260
3.480	49.550	9.58170	8.28070	.89090	-.69500	.72210	1.04950	-.15920	.54210	.15920	1.20780
3.480	51.530	10.03990	8.59930	.90410	-.65310	.76180	1.00960	-.18200	.54310	.18200	1.19770
3.480	41.270	7.61730	6.92750	.73600	-.62130	.68830	1.16110	-.04610	.53640	.04610	1.20720
GRADIENT		.23816	.17387	.02021	-.00343	.01616	-.00322	-.01042	.00073	.01042	-.00322

NSPC 907(PAA) TITAN III C SRK (MDETP)

(R07024) (23 APR 74)

REFERENCE DATA

REF = .0300 IN XREF = 4.0330 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 BREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 101/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	50.450	0.51310	10.50770	3.07400	4.00250	.52950	.24410	.00000	.49440	.00000	.24410
.997	52.350	0.59410	10.40390	2.63920	4.32410	.02570	.14520	.00000	.50110	.00000	.14520
.997	54.330	0.30290	11.00250	2.51920	4.36170	.64860	.09030	.00000	.50180	.00000	.09030
.997	56.330	0.30300	11.49530	2.49630	4.31030	.61510	.06640	.00000	.49640	.00000	.06640
.997	58.350	0.40090	11.03640	2.50740	4.13500	.50020	.34110	.00000	.49350	.00000	.03410
.997	60.300	0.64110	11.59040	2.47310	3.86330	.58320	.00110	.00000	.49400	.00000	.00110
.997	62.300	0.79380	12.19590	2.37030	3.53340	.56000	-.05000	.00000	.49390	.00000	-.05000
.997	64.300	0.69910	12.24440	2.19100	3.22260	.55030	-.08460	.00000	.49490	.00000	-.08460
.997	66.300	0.99370	12.16390	2.04970	2.80800	.57160	-.15130	.00000	.49740	.00000	-.15130
.997	68.300	10.07610	11.93720	1.91110	2.57050	.55010	-.17630	.00000	.50150	.00000	-.17630
.997	70.200	10.12970	11.53360	1.76640	2.22850	.58400	-.18910	.00000	.50740	.00000	-.18910
.997	60.300	0.69640	12.02800	2.40310	3.91200	.59190	.00260	.00000	.49300	.00000	.00260
GRADIENT		.07209	.06939	-.05208	-.12256	-.00103	-.02092	.00000	.00023	.00000	-.02092

RUN NO. 102/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	50.700	0.57760	13.59460	1.52760	.07160	.57200	.48480	.00000	.47100	.00000	.48480
.901	52.670	0.91300	13.07410	1.39040	-.22600	.58750	.44390	.00000	.47440	.00000	.44390
.901	54.660	10.22900	14.09270	1.37500	-.27080	.60090	.40920	.00000	.47710	.00000	.40920
.901	56.670	10.44330	14.03350	1.29000	-.35100	.58650	.39080	.00000	.48140	.00000	.39080
.901	58.620	10.55620	13.59700	1.18300	-.45210	.58170	.41300	.00000	.49090	.00000	.41300
.901	60.500	10.69190	12.36770	1.14760	-.33670	.61080	.43720	.00000	.50510	.00000	.43720
.901	62.500	10.76630	11.76200	1.19700	-.29050	.60980	.46690	.00000	.51320	.00000	.46690
.901	64.550	10.90160	11.53910	1.26640	-.23100	.61900	.42550	.00000	.51750	.00000	.42550
.901	66.510	11.20310	11.16500	1.32280	-.15530	.64840	.41380	.00000	.52530	.00000	.41380
.901	68.500	11.30700	10.62270	1.41650	-.13250	.66030	.40160	.00000	.53340	.00000	.40160
.901	70.400	11.53240	10.30420	1.40900	-.13310	.66950	.37450	.00000	.53640	.00000	.37450
.901	60.500	10.63800	12.34160	1.12310	-.30760	.60330	.43240	.00000	.50470	.00000	.43240
GRADIENT		.09096	-.20899	-.00176	-.00037	.00503	-.00269	.00000	.00373	.00000	-.00269



TABULATED SOURCE DATA, MSFC TWT 307
MSFC 307 (FAA) TITAN III C SRM (HDET/P)

DATE 11 JUL 74

(R57024) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

ORFZ = .3160 IN ZMRP = 4.6330 IN.
LREF = .9000 IN. ZMRP = .0000 IN.
BREF = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 103/ 0 RM/L = 0.60 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	30.790	11.20800	12.07190	1.21190	-.80470	.72940	.04300	.00000	.00000	.04300
1.199	32.700	11.84130	12.36470	1.21130	-.93400	.73070	.01970	.00000	.00000	.01970
1.199	34.700	11.95930	12.60040	1.21450	-.93650	.74860	.78410	.00000	.00000	.78410
1.199	36.720	12.27940	12.88020	.77640	-.83620	.72960	.72040	.00000	.00000	.72040
1.199	38.710	12.63900	13.06120	1.35090	-.81830	.75110	.68940	.00000	.00000	.68940
1.199	40.720	12.87770	13.04220	1.37050	-.84950	.75700	.61290	.00000	.00000	.61290
1.199	42.710	13.04730	12.70880	1.40570	-.70720	.76440	.58670	.00000	.00000	.58670
1.199	44.690	13.23860	12.56120	1.39490	-.66730	.77290	.56430	.00000	.00000	.56430
1.199	46.680	13.33120	12.36370	1.41030	-.67720	.76870	.53390	.00000	.00000	.53390
1.199	48.650	13.81430	12.12480	1.45350	-.67080	.61740	.52200	.00000	.00000	.52200
1.199	50.570	14.14180	11.88450	1.48630	-.71270	.63340	.49640	.00000	.00000	.49640
1.199	60.720	12.86750	12.94200	1.36280	-.87040	.75890	.62030	.00000	.00000	.62030
GRADIENT		.13912	-.01698	.01474	.01437	.00463	-.01857	.00000	.00000	-.01857

RUN NO. 249/ 0 RM/L = 0.93 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.941	30.650	10.50300	6.75750	1.09140	-1.21280	.72420	1.02030	.00000	.00000	1.02030
1.941	32.540	11.10170	9.04200	1.13500	-1.22060	.74620	.99640	.00000	.00000	.99640
1.941	34.500	11.62310	9.39620	1.21350	-1.24240	.76540	.96500	.00000	.00000	.96500
1.941	36.590	12.16990	9.68980	1.28210	-1.25760	.79890	.94110	.00000	.00000	.94110
1.941	38.610	12.73530	9.90020	1.35470	-1.24720	.83440	.91390	.00000	.00000	.91390
1.941	40.640	13.19600	10.18680	1.40020	-1.24660	.86030	.87390	.00000	.00000	.87390
1.941	42.620	13.45580	10.29370	1.44380	-1.20990	.89170	.83120	.00000	.00000	.83120
1.941	44.640	13.65060	10.39820	1.48800	-1.21730	.89730	.79670	.00000	.00000	.79670
1.941	46.630	14.22230	10.56770	1.52770	-1.21050	.91440	.76320	.00000	.00000	.76320
1.941	48.650	14.47280	10.57280	1.54280	-1.25250	.92310	.71840	.00000	.00000	.71840
1.941	50.530	14.76140	10.62910	1.57820	-1.24840	.94360	.68776	.00000	.00000	.68776
1.941	60.590	12.93060	9.95510	1.37930	-1.23630	.84170	.66190	.00000	.00000	.66190
GRADIENT		.21064	-.09436	.02449	-.00041	.01134	-.01705	.00000	.00000	-.01705

DATE 11 JUL 74

TABULATED SOURCE DATA, NSPC TWT 567

PAGE 30

NSPC 507(74A) TITAN III C SRM (MNETP)

(R97024) (23 APR 74)

REFERENCE DATA

REF = .000 IN INRP = 4.6338 IN.
LREF = .0000 IN. INRP = .0000 IN.
BREF = .0000 IN. INRP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 310/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

NSPC	ALPHA	CUM	CLMH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3-480	30.460	9.37026	7.62350	.91300	-.99170	.69210	1.12320	.00000	.55079	.00000	1.12320
3-480	32.340	10.02170	7.86000	.95800	-.92390	.70330	1.09930	.00000	.55210	.00000	1.09930
3-480	34.370	10.47760	8.12540	1.00370	-.93630	.74500	1.06850	.00000	.55330	.00000	1.06850
3-480	36.390	10.99830	8.28950	1.05710	-.94890	.75870	1.03430	.00000	.55320	.00000	1.03430
3-480	38.400	11.29970	8.50910	1.08850	-1.00460	.78850	.99230	.00000	.55820	.00000	.99230
3-480	40.390	11.70580	8.73250	1.12000	-1.07480	.81210	.93390	.00000	.55710	.00000	.93390
3-480	42.390	12.08450	8.92090	1.16570	-1.09280	.83490	.90860	.00000	.55800	.00000	.90860
3-480	44.400	12.43840	9.04880	1.20930	-1.10080	.86290	.86100	.00000	.55940	.00000	.86100
3-480	46.400	12.81000	9.13310	1.24800	-1.08700	.88620	.81730	.00000	.56120	.00000	.81730
3-480	48.420	13.16400	9.18990	1.28410	-1.05580	.90780	.77320	.00000	.56310	.00000	.77320
3-480	50.390	13.44120	9.16160	1.32050	-1.02340	.91830	.72810	.00000	.56520	.00000	.72810
3-480	52.390	11.71050	8.74980	1.12680	-1.05910	.83900	.96320	.00000	.55690	.00000	.96320
3-480	54.390	11.9481	.08171	.02826	-.00926	.01221	-.02033	.00000	.00066	.00000	-.02033

GRADIENT

RUN NO. 311/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

NSPC	ALPHA	CUM	CLMH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
4-939	50.310	9.40580	7.30140	.87210	-.82100	.89120	1.23350	.00000	.55320	.00000	1.23350
4-939	52.190	9.88440	7.59990	.91450	-.87060	.71420	1.19890	.00000	.55420	.00000	1.19890
4-939	54.210	10.38590	7.90000	.95790	-.88980	.75680	1.16520	.00000	.55500	.00000	1.16520
4-939	56.220	10.79390	8.19000	.98730	-.90230	.76890	1.12800	.00000	.55540	.00000	1.12800
4-939	58.220	11.23180	8.56370	.97260	-.96270	.79060	1.07120	.00000	.55510	.00000	1.07120
4-939	60.230	11.58870	8.75760	1.07290	-.93950	.81260	1.03300	.00000	.55580	.00000	1.03300
4-939	62.230	12.01810	9.04840	1.08850	-1.01050	.84600	.96000	.00000	.55620	.00000	.96000
4-939	64.230	12.39050	9.10450	1.11840	-1.00430	.86790	.92020	.00000	.55840	.00000	.92020
4-939	66.230	12.77060	9.24800	1.16450	-.98810	.86430	.86950	.00000	.55990	.00000	.86950
4-939	68.250	13.17280	9.29340	1.18390	-.94510	.89960	.83370	.00000	.56220	.00000	.83370
4-939	70.350	13.40270	9.31040	1.20150	-.93350	.90770	.76180	.00000	.56360	.00000	.76180
4-939	72.350	11.61780	8.87260	1.07150	-.94160	.82890	1.03960	.00000	.55480	.00000	1.03960
4-939	74.350	11.80195	.10586	.01896	-.00642	.01094	-.02365	.00000	.00046	.00000	-.02365

GRADIENT



TABULATED SOURCE DATA, NSFC TWT 987
NSFC 987 (FA4) TITAN III C SRM (MBETP)

(187023) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

ORF = .6300 94. IN XIMP = 4.6330 IN.
LREF = .9000 IN. YIMP = .0000 IN.
ORF = .9000 IN. ZIMP = .0000 IN.
SCALE = .0074

RUN NO. 180/ 0 RM/L = 4.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CP51	CAF
.596	70.439	9.94480	11.21990	1.83220	2.10540	.56460	-.10210	.00000	.50070	.00000	-.10210
.596	72.310	9.91630	10.61980	1.64730	1.79080	.57020	-.08560	.00000	.51600	.00000	-.08560
.596	74.270	9.92450	9.91110	1.55050	1.27600	.58050	-.08840	.00000	.52310	.00000	-.08840
.596	76.230	9.93780	9.59210	1.34940	.95480	.60940	.04970	.00000	.54120	.00000	.04970
.596	78.240	9.96040	8.05600	1.45030	.39930	.60980	.03620	.00000	.54830	.00000	.03620
.596	80.230	9.92300	7.61660	1.54190	.33400	.61940	.01010	.00000	.55340	.00000	.01010
.596	82.210	9.81900	7.12040	1.59380	.71800	.60640	.04040	.00000	.55970	.00000	.04040
.596	84.260	9.89810	6.51860	1.68140	.72660	.59660	.08170	.00000	.56610	.00000	.08170
.596	86.180	9.97410	5.87280	1.68520	.63560	.58960	.09190	.00000	.57700	.00000	.09190
.596	88.170	10.05960	5.36940	1.66710	.61440	.60640	.08600	.00000	.58390	.00000	.08600
.596	90.070	10.09180	4.89310	1.57410	.51620	.60110	.09720	.00000	.59080	.00000	.09720
.596	90.230	9.80670	7.59720	1.51630	.55640	.60380	.02150	.00000	.55340	.00000	.02150
GRADIENT		.00681	-.32257	.00012	-.00119	.00116	.01056	.00000	.00416	.00000	.01056

RUN NO. 179/ 0 RM/L = 6.20 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CP51	CAF
.699	70.350	11.31760	10.24890	1.47300	-.21050	.69070	.49590	.00000	.53890	.00000	.43590
.699	72.440	11.64080	9.97360	1.48070	-.22380	.70450	.40530	.00000	.54300	.00000	.40330
.699	74.410	11.69480	9.66370	1.54480	-.29220	.71930	.39090	.00000	.54690	.00000	.35030
.699	76.400	11.86330	9.43910	1.58340	-.29950	.74130	.31470	.00000	.55080	.00000	.31470
.699	78.400	11.99100	9.25510	1.60920	-.28720	.73890	.26330	.00000	.55380	.00000	.28330
.699	80.390	12.12440	9.05960	1.63520	-.28430	.74610	.26040	.00000	.55690	.00000	.26040
.699	82.380	12.19030	8.70830	1.63640	-.28880	.73390	.23530	.00000	.56110	.00000	.23330
.699	84.350	12.22330	8.24630	1.63520	-.39010	.71280	.21340	.00000	.56610	.00000	.21340
.699	86.320	12.28090	7.62900	1.65760	-.46450	.70370	.21110	.00000	.57290	.00000	.21110
.699	88.300	12.30680	7.09340	1.62680	-.46660	.71110	.19430	.00000	.57850	.00000	.19430
.699	90.170	12.31980	6.52960	1.49630	-.52340	.71770	.16680	.00000	.58440	.00000	.16680
.699	90.390	12.07900	9.01220	1.62210	-.27410	.74420	.26420	.00000	.55700	.00000	.26420
GRADIENT		.04315	-.18818	.00543	-.01489	.00010	-.01271	.00000	.00823	.00000	-.01271

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 40

NSFC 507 (FA4) TITAN III C SRM (MNETP)

(R07025) (23 APR 74)

REFERENCE DATA

SHEET = .0300 90. IN XMRP = 4.6330 IN.
 LEEP = .0000 IN. YMRP = .0000 IN.
 BEEP = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 178/ 0 RM/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CP91	CAF
1.197	70.700	13.81650	11.62710	1.46950	-.67748	.84260	.54900	.00000	-.54500	.00000	-.54500
1.197	72.590	14.10710	11.40200	1.50350	-.70770	.65000	.51200	.00000	-.54950	.00000	-.51200
1.197	74.500	13.31430	11.30600	1.55910	-.72790	.67300	.48200	.00000	-.55150	.00000	-.48200
1.197	76.540	14.49780	11.02170	1.61370	-.76570	.67400	.44600	.00000	-.55530	.00000	-.44600
1.197	78.520	14.67920	10.69090	1.67500	-.78930	.69260	.42800	.00000	-.55960	.00000	-.42800
1.197	80.520	14.81620	10.27590	1.71000	-.83010	.69510	.40400	.00000	-.56370	.00000	-.40400
1.197	82.490	14.92970	9.84390	1.74790	-.85440	.69060	.38140	.00000	-.56720	.00000	-.38140
1.197	84.470	15.11520	9.56700	1.75490	-.87910	.69130	.37840	.00000	-.57140	.00000	-.37840
1.197	86.420	15.22710	9.10000	1.76900	-.91350	.92780	.38080	.00000	-.57360	.00000	-.38080
1.197	88.420	15.24050	8.67340	1.75500	-.94500	.94380	.37460	.00000	-.57940	.00000	-.37460
1.197	90.300	15.25770	8.34970	1.71320	-.98640	.95090	.33350	.00000	-.58220	.00000	-.33350
1.197	90.520	14.81160	10.26340	1.71260	-.82720	.69470	.40490	.00000	-.56360	.00000	-.40490
GRADIENT		.07366	-.17474	-.01472	-.01530	.00514	-.00966	.00000	.00195	.00000	-.00966

RUN NO. 248/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CP91	CAF
1.930	70.070	14.42360	10.25110	1.54000	-1.23690	.93160	.71660	.00000	-.56150	.00000	-.71660
1.930	72.560	14.72040	10.32870	1.55670	-1.25610	.94520	.66160	.00000	-.56270	.00000	-.66160
1.930	74.970	14.91310	10.25600	1.56150	-1.27370	.94550	.64180	.00000	-.56420	.00000	-.64180
1.930	76.960	15.11630	10.14610	1.59110	-1.29320	.95320	.62060	.00000	-.56850	.00000	-.62060
1.930	78.950	15.31720	10.01090	1.61670	-1.30760	.96550	.57280	.00000	-.56800	.00000	-.57280
1.930	80.960	15.42200	9.83040	1.63510	-1.29150	.97620	.53230	.00000	-.57080	.00000	-.53230
1.930	82.950	15.37650	9.71360	1.66660	-1.26800	.98370	.48180	.00000	-.57250	.00000	-.48180
1.930	84.940	15.28900	9.49100	1.68370	-1.24640	.96410	.43510	.00000	-.57440	.00000	-.43510
1.930	86.910	15.75290	9.37950	1.70860	-1.23420	.97110	.38710	.00000	-.57610	.00000	-.38710
1.930	88.910	15.71600	9.09330	1.71340	-1.22390	.96680	.32310	.00000	-.57820	.00000	-.32310
1.930	90.900	15.73860	8.90230	1.70810	-1.19920	.97040	.26100	.00000	-.57990	.00000	-.26100
1.930	90.940	15.40540	9.62710	1.63890	-1.29780	.97290	.53090	.00000	-.57070	.00000	-.53090
GRADIENT		.06951	-.07341	-.00953	.00236	.00162	-.02263	.00000	.00096	.00000	-.02263



TABULATED SOURCE DATA, NSFC TWT 307

DATE 11 JUL 74

(R97029) (23 APR 74)

NSFC 307 (FA4) TITAN III C SRN (MBETP)

PARAMETRIC DATA

REFERENCE DATA

BREF = .0300 IN YMRP = 4.6330 IN.
 LBREF = .0000 IN. YMRP = .0000 IN.
 DBREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 318.000

RUN NO. 313/ 0 RM/L = 6.34 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CMN	CLWN	CYN	CTRN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	70.460	13.37250	9.06120	1.30800	-1.00900	.90240	.70000	.00000	.56350	.00000	.70000
3.400	72.340	13.85060	9.06200	1.33700	-1.00410	.92240	.73020	.00000	.56730	.00000	.73020
3.400	74.360	13.90400	9.06480	1.35250	-1.03470	.92240	.67650	.00000	.56900	.00000	.67650
3.400	76.380	14.14520	9.08000	1.36760	-1.05300	.94370	.62610	.00000	.57020	.00000	.62610
3.400	78.350	14.34890	9.09950	1.37130	-1.07630	.95900	.57020	.00000	.57240	.00000	.57020
3.400	80.370	14.32560	9.09450	1.39410	-1.06270	.98050	.50630	.00000	.57400	.00000	.50630
3.400	82.340	14.65190	9.82340	1.40950	-1.05910	.99800	.45820	.00000	.57530	.00000	.45820
3.400	84.360	14.74730	9.71920	1.41240	-1.04210	1.00320	.40740	.00000	.57670	.00000	.40740
3.400	86.330	14.76400	9.47700	1.43070	-0.99360	.99900	.34150	.00000	.57800	.00000	.34150
3.400	88.340	14.81350	9.34600	1.42650	-0.94030	1.02700	.27490	.00000	.58020	.00000	.27490
3.400	90.210	14.90260	2.15740	1.42610	-0.89950	1.03190	.20970	.00000	.58170	.00000	.20970
3.400	90.340	14.90070	9.84920	1.36790	-1.07410	.98410	.51240	.00000	.57420	.00000	.51240
GRADIENT		.07274	-.04660	.00603	.00443	.00662	-.02849	.00000	.00001	.00000	-.02849

RUN NO. 312/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLWN	CYN	CTRN	CBL	CA	CAB	XCP/L	CPBI	CAF
4.939	70.290	13.23990	8.79920	1.19290	-0.93680	.88540	.84050	.00000	.56750	.00000	.84050
4.939	72.180	13.31560	8.95970	1.20020	-0.92740	.90920	.79130	.00000	.56760	.00000	.79130
4.939	74.200	13.89920	9.19250	1.23810	-0.92350	.92260	.75530	.00000	.56790	.00000	.75530
4.939	76.200	14.08200	9.22950	1.25510	-0.89200	.94940	.68770	.00000	.56850	.00000	.68770
4.939	78.220	14.26110	9.28930	1.27070	-0.86840	.96850	.62940	.00000	.56920	.00000	.62940
4.939	80.220	14.47660	9.15310	1.30360	-0.76500	.96120	.56730	.00000	.57150	.00000	.56730
4.939	82.190	14.38370	9.09330	1.29250	-0.85690	.99820	.48170	.00000	.57250	.00000	.48170
4.939	84.220	14.70200	9.25610	1.33840	-0.85550	1.01370	.42780	.00000	.57160	.00000	.42780
4.939	86.210	14.70130	9.13220	1.34040	-0.89000	.99790	.35550	.00000	.57290	.00000	.35550
4.939	88.210	14.70280	9.88360	1.31670	-0.82270	.99510	.25690	.00000	.57500	.00000	.25690
4.939	90.090	14.70420	9.75980	1.30510	-0.66050	1.02360	.18650	.00000	.57610	.00000	.18650
4.939	90.200	14.42330	9.14330	1.27400	-0.89580	1.00500	.50400	.00000	.57120	.00000	.50400
GRADIENT		.07319	-.00313	.00681	.01581	.00640	-.03311	.00000	.00044	.00000	-.03311

NSFC 507 (FA6) TITAN III C SRN (MSETP)

(R07026) (23 APR 74)

REFERENCE DATA

REF = .0368 94. IN ZMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 REF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 236/ 0 RM/L = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

NSFC	ALPHA	CHW	CLW	CYN	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
.598	109.530	9.01320	-44690	1.36220	-82700	.61420	-23500	.00000	.69000	.00000	-.23500
.598	107.640	9.15730	-83680	1.36430	-72630	.62130	-16420	.00000	.65200	.00000	-.16420
.598	105.630	9.27810	-49560	1.36650	-69030	.62810	-.08120	.00000	.64310	.00000	-.08120
.598	103.680	9.45910	.00220	1.36340	-72320	.64200	.03770	.00000	.63940	.00000	-.03770
.598	101.680	9.51190	1.30210	1.41370	-76670	.64130	.15210	.00000	.63420	.00000	-.15210
.598	99.650	9.66110	1.70370	1.45290	-81930	.63340	.27290	.00000	.62920	.00000	-.27290
.598	97.640	9.79400	2.07770	1.48220	-89810	.64820	.36150	.00000	.62490	.00000	-.36150
.598	95.670	9.91920	2.48050	1.56820	-1.12670	.66410	.35960	.00000	.61940	.00000	-.35960
.598	93.700	9.81920	2.90720	1.64290	-93530	.64610	.31060	.00000	.61400	.00000	-.31060
.598	91.690	9.86590	3.39090	1.67970	-85010	.63880	.28580	.00000	.60800	.00000	-.28580
.598	89.620	9.92800	3.89370	1.63300	-49460	.63440	.26980	.00000	.60180	.00000	-.26980
.598	99.670	9.98040	1.71910	1.44680	-89330	.66670	.26230	.00000	.62880	.00000	-.26230
GRADIENT		-.04568	-.21436	-.01785	-.00106	-.00135	-.02915	.00000	.00275	.00000	-.02915

RUN NO. 236/ 0 RM/L = 5.67 GRADIENT INTERVAL = -5.00/ 5.00

NSFC	ALPHA	CHW	CLW	CYN	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
.902	109.310	11.29210	1.68890	1.73970	-80220	.74870	-24890	.00000	.63250	.00000	-.24890
.902	107.430	11.47120	2.19920	1.77070	-81090	.76500	-12700	.00000	.62720	.00000	-.12700
.902	105.440	11.60910	2.70020	1.77810	-58900	.76600	-.00370	.00000	.62200	.00000	-.00370
.902	103.460	11.82520	3.22880	1.79260	-37030	.77770	.11120	.00000	.61690	.00000	.11120
.902	101.490	11.96700	3.72710	1.80300	-34430	.78360	.19310	.00000	.61210	.00000	.19310
.902	99.480	12.01160	4.24280	1.81630	-37090	.77860	.22820	.00000	.60680	.00000	.22820
.902	97.500	12.03870	4.72770	1.81400	-38720	.77670	.22630	.00000	.60180	.00000	.22630
.902	95.520	12.05870	5.18370	1.80180	-37920	.78700	.21440	.00000	.59710	.00000	.21440
.902	93.540	12.14420	5.63190	1.79280	-35960	.78760	.23490	.00000	.59260	.00000	.23490
.902	91.570	12.14940	6.23710	1.81170	-35370	.79230	.24760	.00000	.58650	.00000	.24760
.902	89.730	12.19290	7.13940	1.77930	-47740	.75090	.21690	.00000	.57720	.00000	.21690
.902	99.500	12.04320	4.25640	1.81090	-80290	.79030	.23480	.00000	.60680	.00000	.23480
GRADIENT		-.04389	-.28396	-.00213	-.00405	.00043	-.02210	.00000	.00266	.00000	-.02210



TABULATED SOURCE DATA, NSFC TWT 307
NSFC 507 (P44) TITAN III C SRM (MRETP)

(1907020) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 313.000

REFERENCE DATA

REF = .0360 IN XMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 237/ 0 RM/L = 0.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.203	109.230	13.02070	5.13340	1.99390	-.96070	.07960	-.90730	.00000	.60430	.00000	-.30730
1.203	107.340	14.02120	5.47430	2.05720	-.51310	.09360	-.37470	.00000	.60210	.00000	-.37470
1.203	105.330	14.22990	5.82090	2.11610	-.30700	.09910	-.23540	.00000	.59970	.00000	-.23540
1.203	103.360	14.35020	6.10220	2.13390	-.32410	.09720	-.11910	.00000	.59770	.00000	-.11910
1.203	101.360	14.32170	6.39500	2.16840	-.56040	.91460	-.00220	.00000	.59570	.00000	-.00220
1.203	99.330	14.01960	6.59960	2.17220	-.56560	.91600	.14060	.00000	.59430	.00000	.11080
1.203	97.380	14.06976	6.76040	2.17270	-.59180	.93290	.21670	.00000	.59300	.00000	.21670
1.203	95.380	14.74398	6.97240	2.17800	-.61390	.94390	.30550	.00000	.59160	.00000	.30550
1.203	93.390	14.86000	7.27170	2.17900	-.64170	.94546	.36580	.00000	.58950	.00000	.36580
1.203	91.390	14.95100	7.67120	2.17360	-.66430	.94040	.41710	.00000	.58690	.00000	.41710
1.203	89.330	14.97450	8.10940	2.17720	-.65110	.94330	.45540	.00000	.58290	.00000	.45540
1.203	87.370	14.97260	8.62250	2.16270	-.57620	.92710	.10670	.00000	.59400	.00000	.10670
1.203	GRADIENT	-.05621	-.13610	-.00750	.00751	-.00346	-.04977	.00000	.00099	.00000	-.04977

RUN NO. 260/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.930	109.190	13.74920	5.49360	1.97970	-.60690	.08510	-.52660	.00000	.60090	.00000	-.52660
1.930	107.310	14.04590	5.78350	2.00930	-.62990	.08600	-.42460	.00000	.59940	.00000	-.42460
1.930	105.300	14.28540	6.18120	2.04910	-.67100	.91920	-.31340	.00000	.59670	.00000	-.31340
1.930	103.300	14.33700	6.51020	2.08730	-.71420	.94290	-.20940	.00000	.59480	.00000	-.20940
1.930	101.290	14.09130	6.83230	2.13060	-.78960	.96830	-.09390	.00000	.59340	.00000	-.09390
1.930	99.300	15.06340	7.16740	2.13400	-.80930	.96790	-.00340	.00000	.59130	.00000	-.00340
1.930	97.310	15.24400	7.46190	2.15000	-.84900	.97640	.06660	.00000	.58940	.00000	.06660
1.930	95.330	15.32500	7.75990	2.14740	-.87610	.98730	.16790	.00000	.58740	.00000	.16790
1.930	93.330	15.31660	8.04140	2.16300	-.91890	.98990	.25080	.00000	.58590	.00000	.25080
1.930	91.320	15.36620	8.25810	2.17630	-.96690	1.00320	.32660	.00000	.58430	.00000	.32660
1.930	89.450	15.67040	8.51400	2.19030	-.97950	.99690	.36960	.00000	.58270	.00000	.36960
1.930	87.320	14.93330	7.16950	2.11600	-.80630	.95690	-.02030	.00000	.59070	.00000	-.02030
1.930	GRADIENT	-.09755	-.15436	-.00969	.01969	-.00621	-.04675	.00000	.00093	.00000	-.04675

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 507(F44) TITAN III C 3RM (MDETP)

(R07020) (23 APR 74)

REFERENCE DATA

PARAMETRIC DATA

DEEP = .0300 IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 BREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

ETA = .000 PHI = 313.000

RUN NO. 270/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMR	CLMR	CTM	CTMM	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.420	12.01140	5.04340	1.58900	-.33640	.06620	-.49170	.00000	.60200	.00000	-.49170
3.400	107.940	13.21500	5.29710	1.63970	-.39840	.09160	-.38200	.00000	.60070	.00000	-.38200
3.400	105.510	13.51250	5.57400	1.69330	-.44430	.09130	-.27790	.00000	.59950	.00000	-.27790
3.400	103.910	13.80830	5.87910	1.72990	-.47530	.04260	-.19290	.00000	.59760	.00000	-.19290
3.400	101.510	14.06580	6.20450	1.74960	-.52630	.01600	-.10370	.00000	.59560	.00000	-.10370
3.400	99.500	14.25920	6.60790	1.77950	-.56620	.02360	-.02290	.00000	.59280	.00000	-.02290
3.400	97.530	14.34930	6.80030	1.76950	-.64200	.05530	.06860	.00000	.59100	.00000	.06860
3.400	95.520	14.45190	7.12120	1.80510	-.63950	.09530	.14800	.00000	.58910	.00000	.14800
3.400	93.540	14.55420	7.36130	1.80950	-.63100	.09330	.21690	.00000	.58730	.00000	.21690
3.400	91.530	14.66990	7.69040	1.81170	-.64680	.09050	.26720	.00000	.58510	.00000	.26720
3.400	89.600	14.75520	7.91870	1.83970	-.63390	.09140	.34300	.00000	.58330	.00000	.34300
3.400	89.520	14.24680	6.64300	1.77800	-.59700	.09090	-.02110	.00000	.59250	.00000	-.02110
GRADIENT		-.08979	-.14867	-.01199	.01621	-.00202	-.04180	.00000	.00097	.00000	-.04180

RUN NO. 271/ 0 RM/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMR	CLMR	CTM	CTMM	CSL	CA	CAB	XCP/L	CPB1	CAF
4.999	109.640	12.08400	5.17700	1.43440	-.32450	.06720	-.53760	.00000	.60070	.00000	-.53760
4.999	107.760	13.16340	5.40670	1.46380	-.38640	.08080	-.43450	.00000	.59950	.00000	-.43450
4.999	105.740	13.48280	5.60440	1.53360	-.38430	.09330	-.33940	.00000	.59690	.00000	-.33940
4.999	103.740	13.74210	5.92490	1.57400	-.36890	.09100	-.22170	.00000	.59690	.00000	-.22170
4.999	101.720	14.03140	6.22780	1.63050	-.46590	.04000	-.12730	.00000	.59530	.00000	-.12730
4.999	99.740	14.23270	6.42930	1.69720	-.45650	.05550	-.04030	.00000	.59430	.00000	-.04030
4.999	97.740	14.37700	6.65500	1.68390	-.46360	.09930	.03630	.00000	.59290	.00000	.03630
4.999	95.720	14.49390	6.93130	1.70990	-.51460	.09740	.13120	.00000	.59090	.00000	.13120
4.999	93.740	14.55000	7.11670	1.70600	-.47020	.04460	.19940	.00000	.58960	.00000	.19940
4.999	91.730	14.38010	7.28900	1.73090	-.42440	.05590	.27080	.00000	.58820	.00000	.27080
4.999	89.690	14.63730	7.41220	1.72860	-.39560	.02820	.32300	.00000	.58740	.00000	.32300
4.999	89.740	14.17910	6.52260	1.69860	-.45650	.06170	-.04290	.00000	.59530	.00000	-.04290
GRADIENT		-.08873	-.11725	-.01544	.00499	-.00390	-.04387	.00000	.00070	.00000	-.04387



TABULATED SOURCE DATA: MWPC TMS 557

(1897027) (23 APR 74)

MWPC 307 (FA0) TITAN III C 3RM (MSETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

SIZE = .6300 IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BRZF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 234/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CLWM	CTM	CTVM	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	129.460	7.17630	-4.14460	1.13020	-.60760	.47810	-.93540	.00000	.72460	.00000	-.93540
.000	127.550	7.49220	-4.09350	1.11620	-.91290	.50610	-.89950	.00000	.72060	.00000	-.89950
.000	125.540	7.84320	-4.04320	1.09610	-1.19950	.52810	-.77680	.00000	.71700	.00000	-.77680
.000	123.540	8.10360	-3.79840	1.03220	-1.62040	.51170	-.72210	.00000	.71080	.00000	-.72210
.000	121.550	8.31840	-3.38130	.93290	-1.51370	.54690	-.64250	.00000	.70290	.00000	-.64250
.000	119.530	8.59590	-2.95910	.86940	-1.40240	.58310	-.53670	.00000	.69500	.00000	-.53670
.000	117.570	8.70970	-2.25590	1.18250	-1.12690	.56630	-.43670	.00000	.68430	.00000	-.43670
.000	115.560	8.85620	-1.71710	1.30600	-.90140	.57190	-.35610	.00000	.67600	.00000	-.35610
.000	113.590	8.99900	-1.26720	1.34930	-.84340	.56750	-.28940	.00000	.66930	.00000	-.28940
.000	111.580	9.13120	-.83300	1.33390	-.80670	.59570	-.23560	.00000	.66300	.00000	-.23560
.000	109.700	9.23290	-.42810	1.34830	-.76930	.58640	-.18600	.00000	.65730	.00000	-.18600
.000	119.560	8.56160	-2.79010	.94290	-1.34640	.55990	-.55610	.00000	.65270	.00000	-.55610
GRADIENT		-.10163	-.20735	-.01610	-.01466	-.00556	-.03997	.00000	.00565	.00000	-.03997

RUN NO. 233/ 0 RM/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CLWM	CTM	CTVM	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	129.230	6.71240	-2.52760	1.13010	-1.37030	.50990	-1.23710	.00000	.68020	.00000	-1.23710
.001	127.330	6.08660	-2.19130	1.10100	-1.36770	.60260	-1.16590	.00000	.68190	.00000	-1.16590
.001	125.320	9.44750	-1.88670	1.16160	-1.20420	.62260	-1.08520	.00000	.67680	.00000	-1.08520
.001	123.330	9.76820	-1.54160	1.22770	-1.16870	.64660	-.98120	.00000	.67190	.00000	-.98120
.001	121.320	10.06270	-1.19040	1.32920	-1.03700	.67830	-.87010	.00000	.66370	.00000	-.87010
.001	119.310	10.31620	-.83450	1.47910	-.86320	.68790	-.73760	.00000	.66170	.00000	-.73760
.001	117.320	10.34300	-.24580	1.58800	-.71830	.70250	-.63460	.00000	.65440	.00000	-.63460
.001	115.330	10.92700	.41270	1.64600	-.69510	.71960	-.54170	.00000	.64670	.00000	-.54170
.001	113.350	11.09810	.90720	1.65420	-.67920	.72350	-.43330	.00000	.64110	.00000	-.43330
.001	111.370	11.21290	1.43340	1.66230	-.70160	.72830	-.31130	.00000	.63330	.00000	-.31130
.001	109.500	11.36410	1.91280	1.66370	-.70460	.73420	-.20270	.00000	.63020	.00000	-.20270
.001	119.320	10.39140	-.68210	1.53340	-.88450	.69550	-.77350	.00000	.63950	.00000	-.77350
GRADIENT		-.13508	-.22816	-.03480	-.04069	-.00763	-.05339	.00000	.00295	.00000	-.05339

TABULARIZED SOURCE DATA, NSFC TWT 307

(R07027) (23 APR 74)

NSFC 307(FAA) TITAN III C SRR (MDETP)

PARAMETRIC DATA

BETA = .008 PHI = 313.000

REFERENCE DATA

REF = .0388 84. IN XREF = 4.8338 IN.
LREF = .0000 IN. YREF = .0000 IN.
BREF = .0000 IN. ZREF = .0000 IN.
SCALE = .0074

RUN NO. 232/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	COL	CA	CAB	KCP/L	CPB1	CAP
1.199	129.160	10.68200	.73300	1.57000	-.92800	.67640	-1.49460	.00000	.61200	.00000	-1.49460
1.199	127.240	11.12316	.97130	1.62200	-.89440	.70910	-1.42190	.00000	.64040	.00000	-1.42190
1.199	125.230	11.59070	1.32340	1.65910	-.87630	.74980	-1.32490	.00000	.63700	.00000	-1.32490
1.199	123.230	12.08210	1.91630	1.70140	-.84960	.78040	-1.23130	.00000	.63240	.00000	-1.23130
1.199	121.230	12.51990	2.26040	1.76700	-.87930	.79380	-1.12990	.00000	.62650	.00000	-1.12990
1.199	119.220	12.92480	2.63630	1.82190	-.93300	.81120	-1.01480	.00000	.62370	.00000	-1.01480
1.199	117.240	13.27940	3.24560	1.86470	-.87090	.83700	-.89840	.00000	.62030	.00000	-.89840
1.199	115.230	13.49410	3.61240	1.91010	-.81530	.86110	-.78660	.00000	.61760	.00000	-.78660
1.199	113.230	13.67960	3.92280	1.96450	-.72530	.88570	-.66430	.00000	.61320	.00000	-.66430
1.199	111.230	13.84310	4.32680	2.02990	-.64770	.89550	-.53650	.00000	.61140	.00000	-.53650
1.199	109.330	13.99130	4.76660	2.06210	-.63330	.88930	-.41910	.00000	.60840	.00000	-.41910
1.199	119.240	12.90390	2.46600	1.82160	-.93370	.80450	-1.01410	.00000	.62340	.00000	-1.01410
GRADIENT		-.17081	-.21119	-.02601	-.01398	-.01060	-.05437	.00000	.00179	.00000	-.05437

RUN NO. 261/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	COL	CA	CAB	KCP/L	CPB1	CAP
1.950	129.200	9.99250	2.69490	1.36700	-.33440	.64690	-1.51230	.00000	.61730	.00000	-1.51230
1.950	127.370	10.42080	3.00300	1.42590	-.30860	.67730	-1.43130	.00000	.61500	.00000	-1.43130
1.950	125.330	10.93330	3.31160	1.50680	-.30730	.71370	-1.34270	.00000	.61310	.00000	-1.34270
1.950	123.310	11.50520	3.56180	1.59090	-.31920	.74310	-1.25890	.00000	.61230	.00000	-1.25890
1.950	121.290	11.86970	3.81380	1.63470	-.33280	.76920	-1.15370	.00000	.61080	.00000	-1.15370
1.950	119.270	12.34330	4.03120	1.70370	-.39080	.81020	-1.04610	.00000	.61010	.00000	-1.04610
1.950	117.270	12.59250	4.28240	1.74980	-.41520	.82190	-.92400	.00000	.60840	.00000	-.92400
1.950	115.260	12.84090	4.52410	1.80610	-.48520	.84460	-.80950	.00000	.60730	.00000	-.80950
1.950	113.250	13.36730	4.76900	1.86320	-.50810	.87530	-.69370	.00000	.60610	.00000	-.69370
1.950	111.230	13.67460	5.11110	1.90720	-.54620	.88990	-.57770	.00000	.60420	.00000	-.57770
1.950	109.330	12.91090	5.42440	1.93400	-.56730	.89440	-.47250	.00000	.60210	.00000	-.47250
1.950	119.310	12.10140	4.19640	1.67290	-.34930	.78340	-1.02740	.00000	.60800	.00000	-1.02740
GRADIENT		-.19738	-.13124	-.02890	-.01402	-.01283	-.05299	.00000	.00069	.00000	-.05299



REFERENCE DATA PARAMETRIC DATA
 BREF = .3300 94. IN XREF = 4.6330 IN. BETA = .000 PHI = 315.000
 LREF = .9000 IN. YREF = .0000 IN.
 BREF = .9000 IN. ZREF = .0000 IN.
 SCALE = .9074

RUN NO. 273/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CBW	CLM	CYN	CYM	CBL	CA	CAB	KCP/L	CPBI	CAF
3.400	129.480	9.03250	2.76600	1.09260	.06760	.99250	-1.50280	.00000	.61270	.00000	-1.50280
3.400	129.590	9.43400	2.98430	1.15680	.01290	.63210	-1.39050	.00000	.61150	.00000	-1.39050
3.400	129.590	9.91390	3.26930	1.22510	.00130	.68630	-1.27990	.00000	.60980	.00000	-1.27990
3.400	129.590	10.32920	3.52160	1.27950	-.01320	.69950	-1.17460	.00000	.60830	.00000	-1.17460
3.400	121.530	10.75970	3.76030	1.30840	-.04910	.69880	-1.06600	.00000	.60720	.00000	-1.06600
3.400	119.820	11.15800	4.04470	1.33800	-.09510	.71160	-.95960	.00000	.60560	.00000	-.95960
3.400	117.530	11.52270	4.26190	1.36900	-.14670	.72220	-.84730	.00000	.60480	.00000	-.84730
3.400	115.500	11.89030	4.49700	1.43510	-.19520	.77040	-.73320	.00000	.60390	.00000	-.73320
3.400	113.520	12.29030	4.75110	1.47300	-.25430	.80700	-.63060	.00000	.60250	.00000	-.63060
3.400	111.490	12.63600	5.02700	1.52350	-.31020	.82480	-.52540	.00000	.60110	.00000	-.52540
3.400	109.610	12.95600	5.30210	1.57280	-.34370	.83660	-.43690	.00000	.59970	.00000	-.43690
3.400	119.340	11.11640	4.03720	1.34490	-.09320	.70860	-.95050	.00000	.60550	.00000	-.95050
GRADIENT		-.19775	-.12616	-.02282	.02069	-.01212	-.05360	.00000	.00064	.00000	-.05360

RUN NO. 272/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CBW	CLM	CYN	CYM	CBL	CA	CAB	KCP/L	CPBI	CAF
4.939	129.070	6.80210	3.03160	1.00730	.08170	.60440	-1.56750	.00000	.60790	.00000	-1.56750
4.939	127.780	9.23940	3.20660	1.05040	.05700	.61360	-1.47320	.00000	.60760	.00000	-1.47320
4.939	125.750	9.74990	3.42740	1.10790	.01010	.64100	-1.35190	.00000	.60700	.00000	-1.35190
4.939	123.750	10.20470	3.66530	1.14960	.00190	.67350	-1.23280	.00000	.60600	.00000	-1.23280
4.939	121.720	10.63780	3.95020	1.22160	-.06260	.72040	-1.11150	.00000	.60450	.00000	-1.11150
4.939	119.720	11.06670	4.21780	1.28430	-.13730	.74890	-.98370	.00000	.60340	.00000	-.98370
4.939	117.740	11.48790	4.37660	1.27790	-.14600	.76980	-.85350	.00000	.60320	.00000	-.85350
4.939	115.710	11.87200	4.64830	1.32000	-.18560	.78440	-.73210	.00000	.60190	.00000	-.73210
4.939	113.730	12.24230	4.67080	1.34810	-.23100	.82080	-.62200	.00000	.60110	.00000	-.62200
4.939	111.710	12.61890	5.09800	1.42000	-.28820	.84030	-.50860	.00000	.60040	.00000	-.50860
4.939	109.620	12.98300	5.39760	1.46100	-.34960	.86630	-.41700	.00000	.59980	.00000	-.41700
4.939	119.740	11.03800	4.18950	1.24820	-.06960	.71820	-.99460	.00000	.60340	.00000	-.99460
GRADIENT		-.20896	-.11986	-.02216	.02116	-.01361	-.05926	.00000	.00046	.00000	-.05926

TABULATED SOURCE DATA, NSFC TWT 987

(R07020) (23 APR 74)

DATE 11 JUL 74

NSFC 907 (7A4) TITAN III C SRK (MBETP)

PARAMETRIC DATA

BETA = .000 PRI = 315.000

REFERENCE DATA

SIZE = .0300 IN ZIMP = 4.033 IN.
LREF = .0000 IN. TREF = .0000 IN.
BREF = .0000 IN. ZREF = .0000 IN.
SCALE = .0074

RUN NO. 100/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCF/L	CFB1	CAF
1.198	147.910	9.73060	-1.47640	1.06330	-.01430	.45940	-2.02060	.41260	.07920	-.41260	-2.43330
1.198	147.040	7.42440	-1.17730	1.42390	-1.28790	.50220	-1.99760	.43760	.07150	-.43760	-2.43530
1.198	143.690	9.10980	-.04970	1.28430	-1.05400	.54260	-1.94200	.42330	.06470	-.42330	-2.36750
1.198	141.620	9.77190	-.71670	1.29470	-2.14540	.58000	-1.09040	.39470	.06180	-.39470	-2.28510
1.198	139.400	9.47920	-.59900	1.34390	-2.30400	.60960	-1.02640	.38610	.05890	-.38610	-2.21250
1.198	137.300	10.15200	-.43790	1.64260	-2.06090	.62970	-1.77430	.40540	.05690	-.40540	-2.17970
1.198	135.220	10.60190	-.27700	1.67280	-1.91440	.66400	-1.70670	.43400	.05400	-.43400	-2.14080
1.198	133.130	10.96390	-.16120	1.65910	-1.84040	.68670	-1.62600	.42200	.05330	-.42200	-2.10400
1.198	131.090	11.32940	-.02980	1.69260	-1.71270	.70590	-1.53990	.40590	.05180	-.40590	-1.94080
1.198	129.020	11.64710	-.10770	1.73570	-1.59500	.73560	-1.44120	.38910	.05030	-.38910	-1.82930
1.198	127.050	11.89390	-.21560	1.81060	-1.35110	.74970	-1.32590	.32340	.04920	-.32340	-1.64930
1.198	127.310	10.11210	-.47910	1.62560	-2.06740	.61790	-1.76640	.59130	.05750	-.59130	-2.13770
1.198	GRADIENT	-.23108	-.07599	-.01973	.01513	-.01362	-.03264	.00264	.00126	-.00264	-.03328

RUN NO. 45/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCF/L	CFB1	CAF
3.480	149.010	4.00900	-.00500	-.56710	.02290	.32130	-2.13700	.07350	.62780	-.07350	-2.21080
3.480	147.040	5.16310	1.12920	-.64440	-.01150	.35370	-2.11310	.07420	.62390	-.07420	-2.18740
3.480	144.960	5.65310	1.24200	.70910	.02370	.36930	-2.07450	.07070	.62370	-.07070	-2.14330
3.480	142.910	6.11170	1.33120	-.77440	.01010	.41330	-2.00990	.06710	.62360	-.06710	-2.07710
3.480	140.830	6.63330	1.40750	-.82590	.02200	.42560	-1.93320	.06170	.62310	-.06170	-2.01490
3.480	138.740	7.09610	1.60360	-.87760	.02840	.46060	-1.80220	.05820	.62290	-.05820	-1.94040
3.480	136.660	7.58100	1.75890	-.92920	.00100	.50940	-1.80290	.05700	.62210	-.05700	-1.85990
3.480	134.580	8.00500	1.86760	-.98190	-.00010	.52660	-1.72560	.05930	.62220	-.05930	-1.78390
3.480	132.530	8.53500	2.01760	1.03340	-.01420	.56350	-1.63570	.05680	.62160	-.05680	-1.69260
3.480	130.440	9.02000	2.24370	1.08250	.01100	.59230	-1.55410	.05520	.62000	-.05520	-1.60940
3.480	128.450	9.50400	2.42390	1.14760	.00360	.60640	-1.43260	.05320	.61920	-.05320	-1.50380
3.480	126.740	7.08300	1.58300	-.87810	.02110	.44650	-1.80350	.06190	.62320	-.06190	-1.94750
3.480	GRADIENT	-.23313	-.06903	-.02659	.00110	-.01440	-.03365	.00106	.00226	-.00106	-.03491



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, MSFC TWT 907

MSFC 907 (FA4) TITAN III C SRN (MBETP)

(897029) (23 APR 74)

PARAMETRIC DATA

REF = .0360 IN XWRP = 4.8330 IN.
 LREF = .0000 IN. YWRP = .0000 IN.
 BREF = .0000 IN. ZWRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 319.000

RUN NO. 97/ D RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.996	169.490	.93430	-1.37690	.47040	.34060	.09900	-1.21910	-.04100	.03800	.04100	-1.17410
.996	167.970	1.13840	-1.55220	.70750	.46740	.09590	-1.27080	-.02230	.02400	.02230	-1.24890
.996	165.990	1.42460	-1.61640	.95130	.70780	.10350	-1.35370	-.00160	.79510	.00160	-1.35210
.996	163.920	1.71290	-1.61990	1.17710	.91720	.10300	-1.41090	.01930	.77110	-.01930	-1.42390
.996	161.460	2.05680	-1.69440	1.43220	1.06320	.10120	-1.49020	.02320	.75560	-.02320	-1.47990
.996	159.420	2.44280	-1.64410	1.65680	1.06220	.11920	-1.47900	.04670	.73670	-.04670	-1.52380
.996	157.370	2.86130	-1.60740	1.86810	.84240	.13430	-1.45240	.06820	.72616	-.06820	-1.52080
.996	155.390	3.30970	-1.72480	2.14050	.44900	.13690	-1.43250	.08930	.71740	-.08930	-1.52090
.996	153.260	3.85670	-1.76760	2.42960	.22910	.16030	-1.38470	.10660	.70950	-.10660	-1.49130
.996	151.210	4.30290	-1.69750	2.65980	-.02960	.17890	-1.36040	.12960	.70050	-.12960	-1.49030
.996	149.230	4.87600	-1.71670	2.68460	-.34470	.20910	-1.33210	.16480	.69610	-.16480	-1.49700
.996	159.420	2.45550	-1.64480	1.86920	1.09300	.12920	-1.47160	.04630	.73630	-.04630	-1.52000
GRADIENT		-.19639	.01312	-.11897	.03592	-.00537	.00479	-.00960	.00712	.00960	-.01440

RUN NO. 98/ D RN/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	169.380	1.09450	-.95280	.55400	.37690	.09000	-1.39860	.02280	.76170	-.02280	-1.42160
.901	167.430	1.34110	-1.06120	.79690	.54620	.09630	-1.46770	.05320	.75160	-.05320	-1.52090
.901	165.390	1.63950	-1.07490	1.10710	.75720	.12430	-1.54970	.06590	.73450	-.06590	-1.61970
.901	163.310	1.97920	-1.12010	1.36900	.63000	.12400	-1.60510	.06370	.72310	-.06370	-1.66680
.901	161.230	2.36640	-1.19500	1.56700	.64950	.13680	-1.64510	.09590	.71540	-.09590	-1.74110
.901	159.150	2.79860	-1.35420	1.74590	.33840	.13690	-1.66470	.12940	.71140	-.12940	-1.79420
.901	157.030	3.35210	-1.44130	2.01390	-.02030	.16780	-1.67890	.16470	.70590	-.16470	-1.84370
.901	154.920	3.86480	-1.76480	2.20330	.14640	.20500	-1.64980	.17610	.70990	-.17610	-1.82990
.901	152.810	4.29830	-2.30400	2.03690	.36770	.25370	-1.59760	.16640	.72230	-.16640	-1.78600
.901	150.680	4.74390	-2.90610	1.85270	.14040	.31440	-1.55460	.17690	.72900	-.16840	-1.73150
.901	148.440	5.22240	-3.41190	1.71290	-.23990	.37960	-1.51590	.17250	.73420	-.17250	-1.68020
.901	158.130	2.86700	-1.33880	1.76100	.30090	.15380	-1.67920	.14420	.71060	-.14420	-1.81940
GRADIENT		-.20442	.11006	-.06478	.03468	-.01267	.00514	-.00803	.00129	.00803	-.01317

NSFC 507(F44) TITAN III C SRU (MRETP)

(897029) (23 APR 74)

REFERENCE DATA

SREF = .6300 80. IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 99/ 0 RM/L = 6.82 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.201	169.280	1.32920	-1.01280	.73070	.46630	.09590	-1.89260	.14760	.74790	-.14760	-2.03030
1.201	167.270	1.68220	-1.09770	1.08900	.71100	.12090	-1.93310	.17940	.73410	-.17940	-2.10890
1.201	165.180	2.13610	-1.19130	1.41190	.85220	.14450	-1.96560	.18930	.71780	-.18930	-2.19490
1.201	163.040	2.68990	-1.11990	1.68270	1.04860	.17630	-1.99340	.20450	.70420	-.20420	-2.19760
1.201	160.920	3.28230	-1.23090	1.93320	1.20190	.20960	-2.01870	.21130	.69920	-.21130	-2.24000
1.201	158.780	3.81330	-1.42600	2.15990	1.43010	.26260	-2.02740	.23470	.69880	-.23470	-2.28220
1.201	156.620	4.37090	-1.59300	2.16990	1.19850	.30430	-2.03980	.25300	.69760	-.25300	-2.29200
1.201	154.480	4.93680	-1.87540	2.13310	.94600	.34870	-2.04770	.28940	.69440	-.28940	-2.33310
1.201	152.330	5.48940	-1.74830	1.98260	.51380	.40200	-2.05410	.32380	.69230	-.32380	-2.37790
1.201	150.210	6.13210	-1.67290	1.90690	.14770	.44010	-2.05920	.36810	.68600	-.36810	-2.40740
1.201	148.160	6.74440	-1.56630	1.66410	-.51630	.48210	-2.02070	.40870	.68090	-.40870	-2.42750
1.201	150.730	3.84030	-1.43900	2.13660	1.40960	.26670	-2.01870	.22190	.69880	-.22190	-2.24060
GRADIENT		-.23860	-.03619	-.04551	.03638	-.01893	.00645	-.01140	.00267	-.01140	.01785

RUN NO. 113/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.980	169.290	1.12800	-.79260	.50090	.50700	.10760	-1.90620	.08470	.74070	-.08470	-1.99100
1.980	167.310	1.52350	-.55620	.68480	.73130	.13020	-1.92000	.10020	.69770	-.10020	-2.02030
1.980	165.230	1.93770	-.40390	.82790	.79120	.16780	-1.93820	.11940	.67760	-.11940	-2.07770
1.980	163.080	2.47840	-.35840	.92680	.73870	.19870	-2.00610	.12430	.66980	-.12430	-2.13040
1.980	161.000	2.91970	-.18180	.90920	.52390	.22480	-1.99690	.13740	.65940	-.13740	-2.13440
1.980	158.890	3.42840	-.11730	.89980	.29440	.26670	-2.03220	.15620	.65580	-.15620	-2.18840
1.980	156.740	3.93190	-.02840	.86240	.06210	.29470	-2.04310	.17680	.65060	-.17680	-2.22000
1.980	154.630	4.42150	.20930	.85520	-.14900	.32720	-2.03940	.19330	.64550	-.19330	-2.23470
1.980	152.490	4.99470	.38580	.87580	-.31510	.36100	-2.05070	.20020	.64170	-.20020	-2.25090
1.980	150.360	5.49120	.58660	.89390	-.38280	.37920	-2.02870	.19230	.63800	-.19230	-2.22110
1.980	148.360	6.03140	.78620	.94200	-.38940	.40700	-2.01820	.18370	.63560	-.18370	-2.20190
1.980	150.880	3.41700	-.08790	.88200	.27490	.26940	-2.01730	.19900	.63400	-.19900	-2.17630
GRADIENT		-.23477	-.08920	-.01286	.08265	-.01467	.00597	-.00556	.00480	-.00556	.01153



NSFC 907 (FA4) TITAN III C SRM (HNETP)

(R97029) (23 APR 74)

REFERENCE DATA

REF = .0380 IN YMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0080 IN.
 DREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 41/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	169.530	.79530	-.14520	.21700	.22440	.09150	-1.07430	.06610	.67460	-.06610	-1.94050
3.400	167.590	1.95500	-.05670	.27430	.24090	.11050	-1.91490	.06800	.65590	-.06800	-1.90300
3.400	165.540	1.36460	.02660	.32100	.20240	.12400	-1.94440	.06970	.64900	-.06970	-2.01310
3.400	163.510	1.68810	.09760	.37350	.19510	.14560	-1.96850	.07130	.64410	-.07130	-2.05990
3.400	161.430	2.07310	.17120	.39320	.14230	.16840	-2.00060	.07310	.64100	-.07310	-2.07380
3.400	159.370	2.44410	.26650	.42220	.10750	.18560	-2.02470	.07760	.63770	-.07760	-2.10230
3.400	157.310	2.84170	.36070	.45670	.04240	.22760	-2.05550	.07610	.63540	-.07610	-2.13160
3.400	155.240	3.27760	.46190	.49040	.01050	.23180	-2.07320	.06900	.63360	-.06900	-2.14500
3.400	153.190	3.75210	.62520	.52290	-.00160	.26650	-2.09490	.06110	.63040	-.06110	-2.15610
3.400	151.100	4.19970	.76190	.54800	.02430	.29280	-2.11290	.05450	.62890	-.05450	-2.16690
3.400	149.110	4.65070	.90130	.60480	.07350	.29760	-2.12270	.04750	.62690	-.04750	-2.17030
3.400	159.370	2.43210	.25950	.42960	.07700	.19820	-2.02310	.07610	.63000	-.07610	-2.09930
GRADIENT		-.19035	-.04935	-.01742	.01196	-.01089	.01216	.00075	.00190	-.00075	-.01140

RUN NO. 42/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.999	169.630	.61290	-.04660	.17730	.13310	.08590	-1.84820	.02350	.66110	-.02350	-1.86950
4.999	167.710	.91470	.02680	.20690	.11790	.11130	-1.88500	.02500	.64730	-.02500	-1.91010
4.999	165.690	1.10240	.11510	.23480	.14620	.09950	-1.92700	.02550	.63630	-.02550	-1.95260
4.999	163.700	1.36160	.25020	.27750	.13850	.13190	-1.95790	.02600	.62920	-.02600	-1.99320
4.999	161.650	1.70630	.36510	.30950	.06140	.16300	-1.97830	.02600	.62440	-.02600	-2.00540
4.999	159.630	2.05010	.48150	.33760	.04500	.18010	-2.00230	.02600	.62160	-.02600	-2.02840
4.999	157.600	2.48150	.60100	.36220	.02140	.21430	-2.02330	.02450	.62160	-.02450	-2.04990
4.999	155.570	2.88300	.75970	.42410	.04250	.22750	-2.05230	.02070	.61910	-.02070	-2.07310
4.999	153.560	3.37080	.92110	.49200	.06550	.22260	-2.10010	.01620	.61690	-.01620	-2.11640
4.999	151.530	3.82970	1.06750	.49450	.10740	.26060	-2.12590	.01020	.61620	-.01020	-2.13610
4.999	149.560	4.23190	1.16580	.53610	.17440	.26980	-2.13590	.00250	.61600	-.00250	-2.13820
4.999	159.630	2.05200	.45210	.35210	.06690	.15300	-2.02010	.02230	.62360	-.02230	-2.04240
GRADIENT		-.18993	-.04304	-.01786	.00113	-.00960	.01427	.00092	.00197	-.00092	-.01336

NSFC 907(FAA) TITAN III C SRM (MNETP)

(807030) (23 APR 74)

REFERENCE DATA

SREF = .0366 10. IN XREF = 4.0330 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 SREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 315.000

RUN NO. 94/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMX	CLMX	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	190.030	-.74200	1.48770	.10140	-.01290	-.18620	-1.02310	-.08300	.90180	.09500	-.93810
.001	189.100	-.50890	1.24520	.12300	.06270	-.16230	-.95660	-.09560	.96240	.09500	-.90100
.001	188.090	-.39630	.94060	.10490	.16200	-.12340	-.94740	-.11020	.95640	.11020	-.93720
.001	184.030	-.25370	.61960	.06840	.19620	-.08940	-.94910	-.11460	.96010	.11460	-.93430
.001	182.040	-.15330	.31890	.06440	.13680	-.05940	-.94690	-.11350	.91490	.11350	-.93330
.001	179.990	.04630	-.03370	.05900	.14430	-.04640	-.95360	-.11340	.74920	.11340	-.93810
.001	177.960	.19670	-.33350	.06900	.14680	-.01670	-.96960	-.10960	.87750	.10960	-.97970
.001	175.940	.30610	-.62230	.06030	.11210	.03410	-1.02060	-.11090	.90880	.11090	-.90960
.001	173.910	.46910	-.84330	.06390	.04210	.04210	-1.08320	-.11290	.87900	.11290	-.97030
.001	171.890	.63630	-1.05870	.13600	.28900	.04230	-1.13980	-.08990	.86210	.08990	-1.04960
.001	169.930	.82610	-1.27600	.44420	.37780	.02060	-1.20850	-.03330	.82610	.03330	-1.17310
.001	179.990	.04620	.00890	.05990	.12340	-.03890	-.95650	-.11220	.63240	.11220	-.84430
.001	GRADIENT	-.07627	.14147	-.00659	-.01167	-.01168	.00943	-.00128	.00619	.00128	-.01070

RUN NO. 95/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMX	CLMX	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.903	196.130	-.91760	1.10110	.28130	.06610	-.17270	-1.17910	-.01470	.80530	.01470	-1.16440
.903	188.170	-.64920	.86620	.12320	.06860	-.13680	-1.13430	-.03300	.82030	.03300	-1.10130
.903	186.140	-.45260	.68400	.08960	.17900	-.09620	-1.08680	-.05270	.84270	.05270	-1.03610
.903	184.090	-.31260	.52460	.05460	.17320	-.06060	-1.07140	-.08760	.86370	.08760	-1.00360
.903	182.060	-.14700	.31510	.07110	.14370	-.01960	-1.06650	-.08490	.92260	.08490	-.98150
.903	179.990	.04120	.11610	.06960	.10990	.01160	-1.06900	-.09350	.89500	.09350	-.99340
.903	177.950	.20600	-.10300	.06840	.12740	.09870	-1.12750	-.09170	.76390	.09170	-1.03580
.903	175.900	.35930	-.45320	.04260	.15120	.06240	-1.18540	-.09120	.81160	.09120	-1.09410
.903	173.860	.54250	-.61990	.07470	.21340	.07430	-1.24840	-.08270	.79610	.08270	-1.16370
.903	171.800	.79910	-.75180	.26700	.24870	.07920	-1.31360	-.05430	.77050	.05430	-1.23930
.903	169.820	1.09840	-.89230	.56010	.39220	.09020	-1.39050	-.01340	.75540	.01340	-1.37700
.903	179.990	.05360	.06450	.07590	.11930	.00590	-1.08550	-.09470	.45270	.09470	-.99080
.903	GRADIENT	-.09132	.10165	-.00873	-.01035	-.01316	.01135	.00099	.00377	-.00099	-.01035



TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(197050) (23 APR 74)

NSFC 507(F44) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 315.000

REFERENCE DATA

REF = .6300 SB. IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 94/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	190.250	-1.04370	1.44460	.19440	.29560	-.21480	-1.60920	.12600	.62670	-.12600	-1.01210
1.197	190.260	-.75220	1.21600	.10090	.12690	-.18590	-1.64920	.10020	.69610	-.10020	-1.74950
1.197	196.210	-.54790	.89570	.06100	.02750	-.11010	-1.60810	.10540	.85610	-.10540	-1.71350
1.197	194.120	-.34110	.55540	.02790	.02440	-.06800	-1.60170	.09640	.63540	-.09640	-1.69610
1.197	192.070	-.14000	.23190	.02790	.04420	-.03020	-1.60030	.09570	.66110	-.09570	-1.60610
1.197	179.980	.09090	.02120	.05400	.12060	.01860	-1.61960	.06590	.62200	-.06590	-1.70350
1.197	177.910	.28270	-.24450	.05910	.10640	.04580	-1.66100	.06490	.76090	-.06490	-1.74600
1.197	175.840	.46930	-.52920	.09190	.01310	.07190	-1.69120	.10240	.78940	-.10240	-1.79360
1.197	173.770	.75950	-.89350	.23430	.07230	.07450	-1.75110	.12560	.76370	-.12560	-1.87670
1.197	171.690	1.07670	-.80390	.47080	.24010	.09270	-1.82050	.14760	.74600	-.14760	-1.96600
1.197	169.600	1.36800	-.97310	.75880	.48240	.10550	-1.87890	.15900	.74150	-.15900	-2.03800
1.197	179.970	.11920	.02470	.04980	.09760	.02360	-1.61310	.06550	.62320	-.06550	-1.69660
1.197	GRADIENT	-.11175	.12120	-.08276	-.00620	-.01559	.01023	-.00186	.00607	.00186	-.01209

RUN NO. 112/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.960	190.260	-.99670	1.26260	.06200	.19230	-.18390	-1.74930	.04900	.61160	-.04900	-1.79840
1.960	196.270	-.70460	1.06670	.05760	.07720	-.13300	-1.70700	.04570	.84310	-.04570	-1.75270
1.960	196.210	-.49350	.78370	.03350	.02660	-.08670	-1.67240	.04240	.85250	-.04240	-1.71400
1.960	194.120	-.32150	.53840	.00790	.00260	-.05250	-1.68310	.03080	.66340	-.03080	-1.71400
1.960	192.060	-.19270	.29650	-.00070	.02020	-.02310	-1.69360	.02970	.86410	-.02970	-1.71940
1.960	179.990	.01120	-.03710	.02450	.07420	.00460	-1.71140	.02440	1.06920	-.02440	-1.73500
1.960	177.920	.17480	-.29510	.04640	.05760	.03620	-1.79140	.02680	.86540	-.02680	-1.76030
1.960	175.860	.34760	-.53350	.09730	.00710	.05810	-1.76490	.02640	.65300	-.02640	-1.79340
1.960	173.790	.56900	-.72190	.15350	.08960	.07480	-1.81150	.03740	.61210	-.03740	-1.84900
1.960	171.710	.82280	-.81320	.35190	.20700	.09460	-1.86470	.05970	.77660	-.05970	-1.92440
1.960	169.710	1.14290	-.76790	.50030	.47010	.12300	-1.90030	.08070	.73650	-.08070	-1.98100
1.960	179.990	.02890	-.02840	.02900	.06930	.01790	-1.67690	.02470	.77830	-.02470	-1.70370
1.960	GRADIENT	-.09543	.10967	-.01627	-.01205	-.01414	.00695	-.00067	.00345	.00067	-.00980

REFERENCE DATA

SREF : .0300 IN ZMRP = 4.0330 IN.
 LREF : .0000 IN. ZMRP = .0000 IN.
 SREF : .0000 IN. ZMRP = .0000 IN.
 SCALE : .0074

PARAMETRIC DATA

BETA = .000 PHI = 319.000

RUN NO. 44/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMH	CYN	CYWH	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	190.200	-7.0570	.58120	.02900	.04500	-.10760	-1.76100	.05920	.74510	-.05520	-1.01620
3.400	188.270	-.90220	.57370	.03060	.03940	-.07730	-1.74630	.05200	.77660	-.05200	-1.79040
3.400	186.240	-.41810	.49340	.01360	.04250	-.06370	-1.72800	.04640	.60080	-.04640	-1.77330
3.400	184.210	-.29270	.36310	-.00920	.02260	-.04590	-1.72460	.04110	.60080	-.04110	-1.76570
3.400	182.180	-.17920	.22850	-.01870	-.01500	-.01950	-1.72700	.03810	.61140	-.03810	-1.75910
3.400	180.150	-.07870	.09520	-.01630	-.03020	-.01960	-1.74560	.03690	.79210	-.03690	-1.76460
3.400	178.120	.05040	-.00000	-.01340	-.09610	.02050	-1.75570	.03760	.72630	-.03760	-1.79340
3.400	176.090	.17940	-.17020	.00120	-.06160	.02490	-1.79390	.03970	.77150	-.03970	-1.85360
3.400	174.060	.33720	-.22490	-.09960	.04310	.04190	-1.80630	.04700	.73590	-.04700	-1.93400
3.400	172.030	.50930	-.21430	.14140	.14240	.06040	-1.83490	.05710	.70470	-.05710	-1.89200
3.400	170.070	.77080	-.14490	.21740	.21030	.07440	-1.87200	.06390	.67530	-.06390	-1.93600
3.400	168.100	-.08820	-.09270	-.00290	-.09050	-.01400	-1.73770	.03850	.76450	-.03850	-1.77620
GRADIENT		-.07007	.04620	-.00695	-.00444	-.00679	.00591	-.00028	.00446	-.00026	.00619

RUN NO. 43/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMH	CYN	CYWH	CBL	CA	CAB	X:P/L	CPB1	CAF
4.959	190.100	-.62710	.45130	-.01940	-.00010	-.06910	-1.71260	.01970	.74260	-.01970	-1.73260
4.959	188.190	-.48290	.49270	-.00250	-.04450	-.05770	-1.70490	.01750	.78060	-.01750	-1.72240
4.959	186.190	-.39790	.41370	-.00200	-.03500	-.03530	-1.67650	.01620	.78310	-.01620	-1.69280
4.959	184.180	-.28460	.28730	-.01550	-.00050	-.04580	-1.68440	.01390	.77930	-.01390	-1.69840
4.959	182.190	-.17220	.22110	-.02850	-.00740	-.02970	-1.69940	.01470	.81400	-.01470	-1.71420
4.959	180.190	-.11660	.12560	-.04150	.00090	-.01320	-1.70490	.01490	.78800	-.01490	-1.71990
4.959	178.140	-.00090	.00000	-.01090	.01830	.03450	-1.70760	.01470	.75730	-.01470	-1.72230
4.959	176.130	.08490	-.10990	-.00800	.01830	.03490	-1.73050	.01470	.81330	-.01470	-1.74500
4.959	174.140	.20490	-.10700	-.06320	.04160	.04760	-1.75560	.01670	.71810	-.01670	-1.77240
4.959	172.100	.40000	-.12470	.09130	.11720	.04840	-1.78900	.01920	.69030	-.01920	-1.80430
4.959	170.170	.55510	-.16860	.16370	.15640	.07640	-1.80960	.02380	.69020	-.02380	-1.83340
4.959	168.190	-.14240	.11350	-.01280	.01610	-.02360	-1.70430	.01670	.75220	-.01670	-1.72110
GRADIENT		-.05534	.03705	-.00668	-.00080	-.00739	.00519	-.00014	.00365	-.00014	.00532



1807031 (23 APR 74)

LABULATED SOURCE DATA, NSFC TWT 907

NSFC 907 (FAA) TITAN III C 9RM (MDETP)

DATE 13 JUL 74

PARAMETRIC DATA

BETA = .000 PHI = 292.900

REFERENCE DATA

SRP = .0360 IN XMRP = 4.0330 IN.
LREP = .0000 IN. YMRP = .0000 IN.
BREP = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 1477 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTW	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	-10.170	-1.20720	-1.29980	-1.0520	.48470	-.09690	1.21920	.21390	.51520	-.21390	1.80520
1.197	-8.220	-0.9320	-0.9580	-2.0910	.49740	-.07910	1.20180	.20730	.52840	-.20730	.99450
1.197	-8.180	-0.72200	-0.62350	-2.2010	.48090	-.05430	1.18110	.18930	.54220	-.18930	.99280
1.197	-4.100	-0.50060	-0.30930	-2.2780	.43690	-.03010	1.15430	.17630	.57330	-.17630	.97800
1.197	-2.070	-0.28700	-0.02520	-2.4640	.47190	-.00770	1.13010	.17300	.64040	-.17300	.95620
1.197	-.010	-0.08720	.23500	-2.1790	.36340	.01420	1.14280	.19150	.99230	-.19150	.95120
1.197	2.030	-1.5200	.51350	-1.9790	.27860	.04210	1.17480	.19530	.22400	-.19330	.97950
1.197	4.090	.31620	.84300	-2.0790	.34020	.07640	1.17030	.20870	.31410	-.20870	.96160
1.197	6.140	.54000	1.28190	-2.2910	.36930	.11110	1.20690	.22540	.35110	-.22540	.98130
1.197	8.200	.73370	1.82220	-2.6500	.50590	.19460	1.22670	.24070	.36210	-.24070	.98590
1.197	10.180	.99290	2.02750	-2.5320	.35350	.16290	1.24520	.25550	.38290	-.25550	.98970
1.197	.000	-0.07700	.26120	-2.2310	.39760	.01760	1.12480	.17520	1.00030	-.17520	.94950
GRADIENT		.10130	.13897	.00432	-.01891	.01285	.00375	.00422	-.04566	-.00422	-.00046

RUN NO. 1470 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CTW	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.260	-1.21030	-1.54890	.09900	.03400	-.12170	.77310	.06630	.46950	-.06630	.70470
3.400	-8.300	-0.91320	-1.24350	.06160	.05220	-.09260	.76210	.06130	.47910	-.06130	.70070
3.400	-6.250	-0.62870	-0.90430	.02150	-.00690	-.08530	.74530	.05570	.46940	-.05570	.68980
3.400	-4.230	-0.39700	-0.63450	.00320	.03920	-.05280	.72470	.05090	.44920	-.05090	.67360
3.400	-2.170	-0.18930	-0.31240	-.03010	.02590	-.02760	.70630	.04730	.44260	-.04730	.65900
3.400	-.130	.02760	.04640	-.01990	.02990	.00770	.71490	.04340	.43910	-.04340	.67140
3.400	1.090	.19500	.33360	-.02900	.01680	.02860	.73290	.04560	.42200	-.04560	.68730
3.400	3.930	.39760	.63220	-.00490	.02850	.02960	.76690	.05050	.49030	-.05050	.71640
3.400	5.960	.64060	.99750	.00470	.01060	.10130	.79630	.05350	.43440	-.03550	.74080
3.400	8.030	.93470	1.36060	.00760	-.05970	.12300	.82220	.06010	.46720	-.06010	.76200
3.400	9.990	1.21390	1.68410	.03130	-.07310	.14900	.83970	.06260	.47590	-.06260	.77310
3.400	-.130	.01520	.03700	-.01990	.03620	.02310	.71540	.04260	.34470	-.04260	.67270
GRADIENT		.09664	.15700	-.00075	-.00199	.01312	.00543	-.00012	-.00090	.00012	.00356

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, NSFC TMT 507

(R07032) (23 APR 74)

DATE 11 JUL 74

NSFC 967 (FAA) TITAN III C SRX (MSETP)

PARAMETRIC DATA

BETA = .000 PHI = 202.500

REFERENCE DATA

REF = .6300 30. IN THRF = 4.6330 IN.
LREF = .9000 IN. THRF = .0000 IN.
BREF = .9000 IN. ZREF = .0000 IN.
SCALE = .0074

RUN NO. 146/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTN	CTYW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	10.710	.97150	1.97750	-.20930	.24020	.17420	1.23200	.22710	.39390	-.22710	1.00490
1.199	12.490	1.29700	2.35990	-.21000	.26080	.22020	1.24610	.24620	.41950	-.24620	.99990
1.199	14.730	1.66350	2.70490	-.22070	.26900	.26930	1.23910	.27300	.44570	-.27300	.98310
1.199	16.940	2.10330	3.12740	-.23240	.31340	.31100	1.23580	.28750	.46330	-.28750	.94930
1.199	18.940	2.61370	3.58070	-.22210	.35330	.35360	1.23000	.30990	.47760	-.30990	.92810
1.199	21.040	3.19730	4.17250	-.13910	.34570	.41690	1.22190	.31310	.48560	-.31310	.90970
1.199	23.200	3.84330	4.87530	.07530	.35480	.46740	1.18600	.31120	.49100	-.31120	.87480
1.199	25.350	4.50190	5.61560	.14730	.31770	.51500	1.16620	.32630	.49360	-.32630	.84153
1.199	27.320	5.25030	6.35610	.19430	.26670	.56860	1.13560	.32910	.49340	-.32910	.80650
1.199	29.980	5.98850	7.36780	.25460	.32390	.61990	1.10270	.33440	.49590	-.33440	.76820
1.199	31.760	6.78340	8.13146	.40010	.34990	.68330	1.06840	.33700	.49990	-.33700	.73130
1.199	21.070	3.19530	4.22610	-.12560	.33290	.42070	1.19860	.28750	.48410	-.28750	.91100
GRADIENT		.27795	.29911	.03116	.00367	.02390	-.00810	.00492	.00449	-.00492	-.01302

RUN NO. 13/ 1 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTN	CTYW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	10.510	1.18720	1.66410	.04440	-.04980	-.12700	.86080	.06700	.47410	-.06700	.79390
3.400	12.490	1.51830	2.02320	.04950	-.06170	.13980	.88230	.07040	.48270	-.07040	.81190
3.400	14.530	1.85130	2.33190	.04290	-.07010	.17330	.90350	.07360	.49210	-.07360	.82970
3.400	16.590	2.19030	2.67940	.07260	-.10030	.19980	.92510	.07360	.49590	-.07360	.84920
3.400	18.620	2.58820	3.03170	.09670	-.14220	.23370	.95210	.07660	.50320	-.07660	.87330
3.400	20.700	2.98140	3.27830	.13420	-.19470	.27240	.98190	.07690	.51240	-.07690	.90490
3.400	22.760	3.43210	3.59080	.16990	-.18710	.32570	1.02790	.07700	.51900	-.07700	.95090
3.400	24.840	3.91210	3.82760	.16240	-.22490	.37130	1.08720	.07560	.52760	-.07560	.99160
3.400	26.840	4.39680	4.09900	.17570	-.26180	.41340	1.09840	.07290	.53350	-.07290	1.02950
3.400	28.920	4.82260	4.37690	.20250	-.30150	.46450	1.13120	.07070	.53830	-.07070	1.06840
3.400	30.940	5.42960	4.71230	.20440	-.30360	.52790	1.16210	.06760	.54160	-.06760	1.09450
3.400	28.700	2.96890	3.26650	.13450	-.18120	.28470	.98630	.07670	.51220	-.07670	.90960
GRADIENT		.26284	.14932	.00911	-.01406	.01976	-.01328	.00001	.00339	-.00001	-.01527



TABULATED SOURCE DATA, NSFC TWT 507

(897034) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PMI = 292.300

DATE 11 JUL 74

NSFC 507 (7A4) TITAN III C SRH (MBETP)

REFERENCE DATA

REF = .0360 IN XREF = 4.0330 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 BREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

RUN NO. 104/ 0 RN/L = 0.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CTMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.194	50.610	11.44930	12.51170	.61170	-.07260	.07010	.09400	.00000	.51320	.00000	.09400
1.194	52.720	11.82830	12.78400	.62770	-.04700	.06560	.08910	.00000	.51470	.00000	.08910
1.194	54.720	12.15960	13.21690	.59760	-.00190	.03530	.01410	.00000	.51390	.00000	.01410
1.194	56.750	12.41600	13.67460	.58680	.01860	.05430	.75660	.00000	.51210	.00000	.75660
1.194	58.760	12.72200	13.96470	.57910	.00670	.03850	.66980	.00000	.51350	.00000	.66980
1.194	60.770	13.01930	13.87460	.59410	.02110	.07240	.61330	.00000	.51660	.00000	.61330
1.194	62.760	13.25420	13.72560	.61630	.06740	.08860	.57670	.00000	.52040	.00000	.57670
1.194	64.730	13.40470	13.29260	.57110	.09700	.09520	.55350	.00000	.52600	.00000	.55350
1.194	66.720	13.69350	13.08770	.52000	.14970	.03010	.53400	.00000	.93050	.00000	.53400
1.194	68.700	13.94960	12.83470	.49880	.19860	.09430	.49060	.00000	.53500	.00000	.49060
1.194	70.580	14.13760	12.43530	.52130	.16090	.07450	.46880	.00000	.54000	.00000	.46880
1.224	60.770	13.01930	13.80890	.59300	.02070	.06660	.62470	.00000	.51720	.00000	.62470
GRADIENT		.13273	-.00593	-.00562	.01180	.00562	-.02256	.00000	.00137	.00000	-.02256

RUN NO. 309/ 0 RN/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CTMH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	50.420	10.10160	7.27100	.37870	-.51690	.07020	1.16920	.00000	.56040	.00000	1.16920
3.480	52.330	10.53540	7.58140	.36990	-.52820	.09590	1.13160	.00000	.56040	.00000	1.13160
3.480	54.360	10.99330	7.89220	.40650	-.52370	.09380	1.08790	.00000	.56070	.00000	1.08790
3.480	56.370	11.43510	8.17080	.41410	-.52870	.06140	1.05170	.00000	.56100	.00000	1.05170
3.480	58.380	11.85760	8.45940	.45400	-.50330	1.00390	1.01460	.00000	.56120	.00000	1.01460
3.480	60.380	12.24590	8.70880	.48070	-.49330	1.02910	.96920	.00000	.56150	.00000	.96920
3.480	62.390	12.64010	8.94780	.49550	-.47850	1.05530	.92330	.00000	.56190	.00000	.92330
3.480	64.420	12.97040	9.19230	.51050	-.44200	1.07230	.86360	.00000	.56220	.00000	.86360
3.480	66.420	13.30680	9.33390	.51920	-.43120	1.09210	.83710	.00000	.56270	.00000	.83710
3.480	68.430	13.62360	9.48780	.54070	-.41030	1.10310	.78630	.00000	.56330	.00000	.78630
3.480	70.510	13.87230	9.53530	.54960	-.40470	1.11770	.73360	.00000	.56450	.00000	.73360
3.480	60.380	12.22120	8.87600	.47470	-.46430	1.04550	.97290	.00000	.56160	.00000	.97290
GRADIENT		.19081	-.11702	.00930	.00664	.01236	-.02148	.00000	.00019	.00000	-.02148

NSFC 507 (744) TITAN III C SRM (MRETP)

(R07055) (23 APR 74)

REFERENCE DATA

BREF = .6300 IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 292.500

RUN NO. 109/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLIN	CYN	CYMN	CBL	CA	CAB	ICP/L	CPB1	CAF
1.196	70.740	13.96070	17.20000	.49370	.17006	.96790	.31540	.00000	.54030	.00000	.51340
1.196	72.630	14.19170	12.00130	.53000	.10480	.96130	.47250	.00000	.54370	.00000	.47250
1.196	74.590	14.34100	11.80390	.59700	.19640	.90140	.43350	.00000	.54660	.00000	.43320
1.196	76.570	14.46930	11.48270	.62700	.10610	.99000	.39750	.00000	.55100	.00000	.39720
1.196	78.540	14.85030	10.99480	.66200	.13700	1.00310	.37540	.00000	.55650	.00000	.37540
1.196	80.530	14.79500	10.56100	.68440	.14790	1.01580	.36090	.00000	.56110	.00000	.36090
1.196	82.500	14.94300	10.11830	.69800	.16450	1.01770	.34160	.00000	.56580	.00000	.34160
1.196	84.480	15.10400	9.72780	.68480	.21770	1.04130	.32150	.00000	.57030	.00000	.32150
1.196	86.450	15.23900	9.23480	.65100	.22540	1.06560	.29990	.00000	.57480	.00000	.29990
1.196	88.420	15.27110	8.76620	.63650	.25110	1.11280	.27840	.00000	.57880	.00000	.27840
1.196	90.300	15.28720	8.36210	.61390	.24640	1.12720	.25470	.00000	.58220	.00000	.25470
1.196	92.530	14.00410	10.54740	.67890	.15490	1.01520	.35990	.00000	.56130	.00000	.35990
GRADIENT		.07020	-.20911	.00613	.00389	.00768	-.01232	.00000	.00223	.00000	-.01232

RUN NO. 306/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLIN	CYN	CYMN	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	70.470	13.81550	9.43550	.53630	-.36290	1.00040	.79300	.00000	.56300	.00000	.79300
3.400	72.350	14.04960	9.48600	.55350	-.36040	1.09640	.73750	.00000	.56600	.00000	.73750
3.400	74.300	14.30440	9.53320	.56800	-.39360	1.11270	.68620	.00000	.56710	.00000	.68620
3.400	76.370	14.53250	9.52800	.57210	-.36290	1.12740	.62860	.00000	.56850	.00000	.62860
3.400	78.390	14.75300	9.45820	.58940	-.37070	1.13160	.55300	.00000	.57030	.00000	.55300
3.400	80.380	14.93770	9.34690	.60020	-.34930	1.15130	.49350	.00000	.57230	.00000	.49350
3.400	82.350	15.05000	9.15770	.62410	-.31760	1.15570	.43940	.00000	.57440	.00000	.43940
3.400	84.370	15.20190	9.01610	.64130	-.30530	1.17650	.37870	.00000	.57840	.00000	.37870
3.400	86.340	15.28420	8.81980	.65190	-.29010	1.17870	.31610	.00000	.57840	.00000	.31610
3.400	88.350	15.32610	8.65910	.67460	-.26680	1.19690	.25210	.00000	.58000	.00000	.25210
3.400	90.220	15.34340	8.44600	.69120	-.29380	1.19330	.18040	.00000	.58180	.00000	.18040
3.400	92.360	14.91510	9.31450	.59390	-.35420	1.16280	.49760	.00000	.57240	.00000	.49760
GRADIENT		.07900	-.05373	.00782	.00741	.00580	-.05075	.00000	.00089	.00000	-.03075



TABULATED SOURCE DATA, WSPC TWT 507

DATE 11 JUN 74

(097036) (23 APR 74)

WSPC 507(FAA) TITAN III C SHR (MSETP)

PARAMETRIC DATA

BETA = .000 PHI = 202.500

REFERENCE DATA

SREF = .0360 SE. IN XMRP = 4.6338 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0374

RUN NO. 230/ 0 RM/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWN	'YM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	109.180	13.97490	4.02430	.93520	.41150	1.06970	-.51110	.00000	.61500	.00000	-.51110
1.196	107.270	14.16450	4.45940	.94540	.41600	1.09320	-.30790	.00000	.61160	.00000	-.30790
1.196	105.280	14.36940	4.87770	.95600	.38300	1.09690	-.25190	.00000	.60950	.00000	-.25190
1.196	103.300	14.62450	5.40520	.95910	.40670	1.10490	-.13950	.00000	.60400	.00000	-.13950
1.196	101.340	14.77670	6.20080	.96690	.45970	1.10060	-.02900	.00000	.59790	.00006	-.02900
1.196	99.340	14.88230	6.71290	.96250	.44270	1.09250	.08000	.00000	.59440	.00000	.08000
1.196	97.300	14.90750	7.09570	.96620	.44510	1.08660	.17850	.00000	.59160	.00000	.17850
1.196	95.390	15.06800	7.40820	.95680	.42100	1.09140	.25670	.00000	.58930	.00000	.25670
1.196	93.410	15.19720	7.77520	.95060	.43270	1.08420	.31540	.00000	.58660	.00000	.31540
1.196	91.410	15.13290	8.12740	.94820	.42260	1.08090	.35750	.00000	.58350	.00000	.35750
1.196	89.540	15.16630	8.44740	.95300	.42070	1.07970	.37460	.00000	.58100	.00000	.37460
1.196	89.360	14.91620	8.82230	.97300	.45360	1.09510	.07590	.00000	.59360	.00000	.07590
GRADIENT		-.06124	-.23111	-.00090	-.00106	.00003	-.04661	.00000	.00177	.00000	-.04661

RUN NO. 275/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWN	CYH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	109.420	13.39410	5.48690	.93780	.32760	1.01470	-.52370	.00000	.59960	.00000	-.52370
3.480	107.540	13.67340	5.81220	.95400	.30890	1.02960	-.43420	.00000	.59770	.00000	-.43420
3.480	105.320	13.95760	6.19270	.97640	.27240	1.03110	-.32700	.00000	.59550	.00000	-.32700
3.480	103.320	14.17400	6.51160	.97950	.25400	1.04640	-.24040	.00000	.59330	.00000	-.24040
3.480	101.330	14.40300	6.89210	.98240	.20810	1.06760	-.13980	.00000	.59090	.00000	-.13980
3.480	99.510	14.63130	7.17520	.97330	.18260	1.07670	-.03600	.00000	.58940	.00000	-.03600
3.480	97.530	14.93020	7.53670	.96950	.15310	1.08790	.02720	.00000	.58760	.00000	.02720
3.480	95.540	15.01230	7.85470	.96640	.11780	1.09550	.12350	.00000	.58530	.00000	.12350
3.480	93.550	15.17040	8.18490	.95720	.07660	1.10220	.19870	.00000	.58320	.00000	.19870
3.480	91.540	15.23950	8.42730	.94690	.00090	1.09750	.28050	.00000	.58150	.00000	.28050
3.480	89.660	15.27640	8.65210	.93210	.03170	1.09790	.33310	.00000	.57980	.00000	.33310
3.480	89.530	14.60070	7.17400	.97690	.19870	1.05250	-.06120	.00000	.59330	.00000	-.06120
GRADIENT		-.09840	-.16278	.00070	.01510	-.00466	-.04443	.00000	.00100	.00000	-.04443

TABULATED SOURCE DATA, WPCF TWT 507
WPCF 507 (744) TITAN III C SRH (WBCTP)

DATE 11 JUL 74

(R97057) (23 APR 74)

REFERENCE DATA

DATE = .0368 94. IN XIMP = 4.0330 IN.
LREF = .9000 IN. YIMP = .0000 IN.
BREF = .9000 IN. ZIMP = .7000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 292.300

RUN NO. 251/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

WPCF	ALPHA	CMW	CLMW	CTH	CYWH	CSL	CA	CAB	XCP/L	CPB1	CAF
1.200	129.120	10.79110	.16970	.64000	.02990	.01960	-1.48230	.00000	.64950	.00000	-1.48230
1.200	127.200	11.22010	.37320	.67320	.05960	.05010	-1.39890	.00000	.64730	.00000	-1.39890
1.200	125.190	11.62000	.07670	.70560	.12930	.08970	-1.31080	.00000	.64410	.00000	-1.31080
1.200	123.190	12.05070	1.01890	.73410	.22300	.02700	-1.22320	.00000	.64090	.00000	-1.22320
1.200	121.190	12.44990	1.42100	.76390	.29920	.95140	-1.12100	.00000	.63700	.00000	-1.12100
1.200	119.190	12.84920	1.83450	.77980	.26600	.97720	-1.01890	.00000	.63340	.00000	-1.01890
1.200	117.170	13.17300	2.34590	.81940	.30720	.99930	-.91030	.00000	.62890	.00000	-.91030
1.200	115.180	13.47060	2.76950	.84180	.32560	1.02220	-.79650	.00000	.62530	.00000	-.79650
1.200	113.200	13.81490	3.19620	.87610	.36130	1.04750	-.68370	.00000	.62220	.00000	-.68370
1.200	111.190	14.08970	3.62350	.90530	.40360	1.07280	-.55460	.00000	.61890	.00000	-.55460
1.200	109.320	14.22210	3.98250	.92240	.42440	1.07790	-.43640	.00000	.61630	.00000	-.43640
1.200	119.190	12.80440	1.90820	.79950	.24950	.98130	-1.01640	.00000	.63260	.00000	-1.01640
GRADIENT		-.17690	-.20129	-.01378	-.02021	-.01330	-.05273	.00000	.00176	.00000	-.05273

RUN NO. 274/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

WPCF	ALPHA	CMW	CLMW	CTH	CYWH	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.470	9.56070	2.82780	.65620	.35230	.72910	-1.53530	.00000	.61320	.00000	-.33330
3.400	127.580	9.63260	3.06090	.68680	.39930	.74080	-1.43650	.00000	.61210	.00000	-1.43650
3.400	125.590	10.50910	3.30740	.71750	.39470	.79190	-1.31260	.00000	.61090	.00000	-1.31260
3.400	123.540	10.78330	3.55380	.75440	.40010	.81560	-1.20540	.00000	.60980	.00000	-1.20540
3.400	121.510	11.21440	3.79310	.78460	.40270	.85090	-1.09700	.00000	.60870	.00000	-1.09700
3.400	119.490	11.65000	4.03050	.82210	.37360	.86630	-.98410	.00000	.60770	.00000	-.98410
3.400	117.510	12.07680	4.30600	.84600	.36590	.89920	-.86150	.00000	.60630	.00000	-.86150
3.400	115.500	12.48970	4.57250	.86910	.35770	.92400	-.77750	.00000	.60490	.00000	-.77750
3.400	113.500	12.80990	4.86310	.89280	.34280	.94640	-.67120	.00000	.60340	.00000	-.67120
3.400	111.470	13.12050	5.16550	.91510	.34100	.95930	-.57690	.00000	.60160	.00000	-.57690
3.400	109.600	13.39540	5.51420	.94450	.30940	.98660	-.47930	.00000	.59940	.00000	-.47930
3.400	119.320	11.61730	4.05500	.82820	.39040	.83380	-.99590	.00000	.60730	.00000	-.99590
GRADIENT		-.20441	-.13200	-.01482	-.00328	-.01323	-.05324	.00000	.00066	.00000	-.05324



MFC 597 (FA4) TITAN III C SRN (MDETP)

(307039) (23 APR 74)

REFERENCE DATA

REF = .6340 90. IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 REF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .060 PHI = 292.500

RUN NO. 92/ 0 RM/L = 6.02 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	169.250	1.35900	-1.31200	.56470	.92250	.11810	-1.90240	.16790	.75910	-.16790	-2.07040
1.201	167.250	1.74020	-1.29220	.84030	.06740	.14100	-1.93300	.19120	.74220	-.19120	-2.14500
1.201	165.100	2.18450	-1.38200	1.06500	1.17950	.17020	-2.09300	.19990	.73040	-.19990	-2.19370
1.201	163.010	2.74320	-1.42500	1.42110	1.53700	.21050	-2.03370	.22350	.71730	-.22350	-2.25930
1.201	160.800	3.34810	-1.55100	1.65790	1.75710	.26300	-2.06950	.24350	.71010	-.24350	-2.31200
1.201	158.700	3.95400	-1.75900	1.74170	1.62690	.30610	-2.04900	.25800	.70780	-.25800	-2.35370
1.201	156.570	4.56010	-2.23400	1.40260	1.33700	.37610	-2.07340	.24270	.71630	-.24270	-2.31610
1.201	154.420	4.6130	-2.60590	.99320	.62900	.41600	-2.05430	.23510	.72140	-.23510	-2.26840
1.201	152.200	5.49300	-2.69220	.96790	.37120	.49010	-2.02750	.23290	.71330	-.23290	-2.26090
1.201	150.110	6.16600	-2.77620	.77560	-.06270	.53010	-1.99110	.23000	.70850	-.23000	-2.22910
1.201	148.010	7.07490	-2.45220	1.08110	-.24400	.56370	-1.99550	.20720	.69530	-.20720	-2.27270
1.201	158.690	3.95260	-1.81060	1.68420	1.77010	.32650	-2.03740	.23010	.70950	-.23010	-2.29760
GRADIENT		-.26163	.68502	-.00541	.05237	-.02268	.00299	-.00303	.00200	-.00303	-.00682

RUN NO. 48/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.60/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	169.550	.79870	-.23540	.19590	.16720	.11390	-1.91870	.06290	.68930	-.06290	-1.98160
3.400	167.500	1.09400	-.16700	.14370	.14260	.13810	-1.93660	.06410	.67320	-.06410	-2.02070
3.400	165.550	1.47470	-.10820	.16510	.07700	.16200	-1.90620	.06320	.66100	-.06320	-2.04940
3.400	163.470	1.76030	-.06720	.17400	.03170	.18090	-2.02900	.06070	.65630	-.06070	-2.08970
3.400	161.430	2.10360	-.00130	.15600	.00610	.19100	-2.07300	.03400	.65160	-.03400	-2.12440
3.400	159.350	2.48860	.03300	.12670	-.06870	.23530	-2.12660	.04130	.64970	-.04130	-2.16900
3.400	157.290	2.85020	.09040	.10360	-.12000	.24900	-2.16250	.02210	.64730	-.02210	-2.20470
3.400	155.220	3.27060	.16560	.12270	-.10560	.29320	-2.18020	-.00220	.64450	-.00220	-2.24600
3.400	153.100	3.70590	.24300	.13370	-.04610	.29930	-2.22440	-.02220	.63970	-.02220	-2.28610
3.400	151.090	4.17740	.30940	.16310	.03900	.33100	-2.21990	-.03310	.63600	-.03310	-2.30470
3.400	149.090	4.64020	.67620	.21200	.13160	.34320	-2.19520	-.04660	.63320	-.04660	-2.34060
3.400	159.350	2.49740	-.02750	.12670	-.05980	.21260	-2.11970	.03700	.65010	-.03700	-2.19670
GRADIENT		-.10709	-.04116	-.00092	.00406	-.01148	.01500	-.00602	.00230	-.00602	-.00970

NSFC 907(744) TITAN III C 80M (MRSTP)

(097048) (23 APR 74)

REFERENCE DATA

BREF = .6300 IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. ZMRP = .0000 IN.
 DBREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .005 PHI = 232.500

RUN NO. 93/ 0 RM/L = 0.62 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.203	190.200	-1.02200	1.39310	.36040	.03240	-.10720	-1.00210	.12290	.81320	-.12290	-1.72310
1.203	198.270	-.01730	1.19040	.24240	-.05890	-.12960	-1.57700	.10160	.62960	-.10160	-1.67680
1.203	198.210	-.37670	.85470	.14660	-.09100	-.09240	-1.56670	.09350	.63910	-.09350	-1.60020
1.203	194.120	-.36430	.91760	.07900	-.00980	-.05900	-1.57370	.08730	.63140	-.09730	-1.67100
1.203	192.070	-.15790	.25150	.03930	-.03230	-.02620	-1.59690	.08590	.65330	-.08590	-1.60280
1.203	179.980	.09620	.09850	.03180	.04040	.01960	-1.62180	.08330	.52160	-.08330	-1.70520
1.203	177.926	.29640	-.20010	-.01790	.05980	.04690	-1.67440	.08340	.75420	-.08340	-1.76190
1.203	175.850	.45970	-.57560	-.02000	.01510	.06870	-1.70450	.09560	.61030	-.09560	-1.80020
1.203	175.770	.74726	-.74320	.11840	.06180	.04370	-1.76700	.10360	.77740	-.10360	-1.87080
1.203	171.680	1.06740	-.92460	.28390	.19530	.09680	-1.83480	.12930	.76110	-.12930	-1.96420
1.203	169.970	1.39500	-1.10950	.54670	.46040	.11560	-1.90300	.14590	.75180	-.14590	-2.04970
1.203	179.970	.11430	.06090	-.00200	.02730	.01440	-1.81310	.06660	.58400	-.06660	-1.67980
GRADIENT		-.11441	.12426	-.00338	-.01707	-.01399	.01534	-.00410	.00400	.00110	.01844

RUN NO. 47/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.480	190.200	-.00150	.42130	.14250	.03760	-.06930	-1.72740	.05950	.71800	-.05950	-1.78600
3.480	198.270	-.00170	.49320	.09730	.04690	-.07730	-1.71660	.05530	.74720	-.05530	-1.77210
3.480	198.230	-.43880	.41380	.04670	.02970	-.06350	-1.70120	.04940	.77080	-.04940	-1.75050
3.480	194.210	-.32690	.39160	.04330	-.01010	-.02920	-1.69630	.04230	.78000	-.04230	-1.73990
3.480	192.200	-.17560	.24220	.02040	-.03750	-.01920	-1.71450	.03970	.82600	-.03870	-1.75320
3.480	189.150	-.07540	.09910	-.00280	-.03730	-.01340	-1.73320	.03940	.81780	-.03940	-1.77260
3.480	179.130	.03860	-.05020	-.00640	-.01390	-.01320	-1.79320	.04010	.81660	-.04010	-1.80340
3.480	178.100	.16620	-.17650	.00070	.03240	.03840	-1.79320	.03990	.78590	-.03990	-1.83310
3.480	174.090	.29630	-.27360	.03360	.06430	.05340	-1.82810	.04710	.76930	-.04710	-1.87330
3.480	172.030	.50250	-.30290	.06540	.12940	.07850	-1.86830	.05500	.72780	-.05500	-1.91340
3.480	170.070	.77520	-.24170	.12900	.19330	.09040	-1.89570	.06110	.69090	-.06110	-1.95690
3.480	189.150	-.08920	.07940	-.00330	-.01020	-.01960	-1.74510	.03990	.76530	-.03990	-1.78410
GRADIENT		-.07062	.64374	.00182	-.00539	-.00911	.00919	-.00001	.00099	.00001	.00921



PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

GRADIENT INTERVAL = -9.00/ 9.00

RUN NO. 150/ 0 RM/L = 4.99

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 149/ 0 RM/L = 6.19

MACH	ALPHA	CMM	CLMM	CYM	CYMM	CBL	CA	CAB	XCP/L	CPBI	CAF
.999	-10.020	-1.05760	-1.12800	.10460	.21120	.00700	.62040	.10040	.51650	-.10040	-.51990
.999	-8.100	-.87070	-.71450	.04330	.20190	-.32660	.62170	.09050	.53310	-.09050	-.53110
.999	-6.100	-.68590	-.52250	-.04040	.19220	-.00700	.59370	.07200	.53460	-.07200	-.52290
.999	-4.000	-.52050	-.24720	-.06960	.16956	.00270	.57250	.06850	.59140	-.06850	-.50400
.999	-2.040	-.3545F	.00690	-.09940	.21390	.04470	.55320	.05930	.65400	-.05930	-.49390
.999	-.020	-.21110	.31380	-.09410	.12180	.05930	.54160	.06450	.83960	-.06450	-.47710
.999	1.990	-.0658F	.53030	-.13340	.06670	.06670	.59270	.08700	1.67150	-.08700	-.46570
.999	4.010	.11780	.66760	-.16770	.09740	.09430	.56720	.09220	-.28050	-.09220	-.47900
.999	6.020	.26120	1.22200	-.17240	.06990	.11120	.59560	.10500	.05940	-.10500	-.49080
.999	8.060	.42350	1.60630	-.19330	.07040	.16030	.60390	.10920	.17370	-.10920	-.49470
.999	10.000	.56880	1.89090	-.20950	.03620	.19780	.60850	.11990	.23080	-.11990	-.48860
.999	-.020	-.21160	.27120	-.10370	.05360	.05360	.55960	.06560	.81370	-.06560	-.49300
.999	GRADIENT	.07761	.13649	-.01290	-.00900	.00918	-.00065	.00372	-.03606	-.00372	-.00437

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

MACH	ALPHA	CMM	CLMM	CYM	CYMM	CBL	CA	CAB	XCP/L	CPBI	CAF
.904	-10.100	-1.11690	-1.12730	.07990	.20990	-.02680	.81040	.10390	.52370	-.10390	-.70840
.904	-8.170	-.91450	-.83560	.01490	.21060	-.02780	.80490	.09560	.53560	-.09560	-.70930
.904	-6.140	-.70310	-.49900	-.09070	.19320	-.01400	.79860	.07830	.56140	-.07830	-.72020
.904	-4.080	-.49680	-.21860	-.09270	.17270	.00670	.77870	.06470	.59560	-.06470	-.71390
.904	-2.050	-.30920	.02680	-.11240	.14570	.01330	.75680	.06530	.66250	-.06530	-.69150
.904	-.010	-.16460	.30090	-.13150	.13570	.01610	.74460	.06690	.88260	-.06690	-.67370
.904	2.040	.03680	.61020	-.13500	.09270	.04160	.75610	.07840	-1.44370	-.07840	-.67960
.904	4.050	.19350	.93500	-.15500	.10700	.06930	.78410	.06600	.03990	-.06600	-.69720
.904	6.090	.35090	1.29070	-.16570	.06940	.09740	.80850	.09960	.18580	-.09960	-.70870
.904	8.130	.52220	1.63240	-.18720	.04120	.12220	.81310	.11140	.25590	-.11140	-.70170
.904	10.100	.72780	1.99350	-.27090	-.00610	.16610	.82060	.11920	.30480	-.11920	-.70140
.904	-.010	-.15230	.29500	-.13060	.12920	.00390	.87100	.07140	-.06660	-.07140	-.67950
.904	GRADIENT	.08485	.14204	-.00723	-.00699	.00754	.00059	.00262	-.15874	-.00262	-.00223

TABULATED SOURCE DATA, NSFC TWT 387

(897841) (23 APR 74)

NSFC 583 (PAA) TITAN III C SRM (MRETP)

DATE 11 JUL 74

PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

REF = .6300 90. IN XMRP = 4.8338 IN.
LREF = .9000 IN. YMRP = .0000 IN.
BREF = .9000 IN. ZMRP = .0000 IN.
SCALE = .C074

RUN NO. 148/ 0 RM/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYWN	CBL	CA	CAB	YCP/L	CPBI	CAF
1.194	-10.160	-1.20520	-1.19220	-0.7440	.19370	-.03360	1.16920	.21210	.52630	-.21210	.93700
1.194	-8.210	-.96970	-.87250	-.01600	.21600	-.03170	1.15770	.20360	.53760	-.20360	.93400
1.194	-6.170	-.73200	-.56260	-.06430	.21230	-.02920	1.15200	.19260	.55430	-.19260	.93940
1.194	-4.120	-.50930	-.29000	-.09930	.17480	-.01140	1.14710	.18510	.58190	-.18510	.96200
1.194	-2.080	-.30930	-.02240	-.12430	.15960	.00980	1.13930	.18260	.64220	-.18260	.93660
1.194	-.010	-.11100	-.23630	-.14940	.14430	.02280	1.14110	.19200	.62320	-.19200	.94900
1.194	2.030	.06300	.59430	-.17170	.11440	.05600	1.13760	.19570	-.24430	-.19570	.96200
1.194	4.080	-.24900	.93030	-.18050	.07930	.07650	1.17850	.20610	.16060	-.20610	.97240
1.194	6.130	.40610	1.33190	-.19920	.06180	.12050	1.21900	.23200	.23020	-.23200	.96700
1.194	8.190	.60140	1.79010	-.22690	.04260	.15790	1.24020	.24580	.27470	-.24580	.99430
1.194	10.170	.82420	2.19260	-.26220	.03600	.20040	1.25430	.25360	.31480	-.25360	1.00060
1.194	-.010	-.10160	.24440	-.14400	.19300	.02010	1.13330	.18670	.95560	-.18670	.94060
1.194	GRADIENT	.09295	.15004	-.01023	-.01151	.01102	.00396	.00269	-.08342	-.00269	.00127

RUN NO. 124/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.980	-10.240	-1.19610	-1.69280	.16610	.01420	-.08190	.91980	.12920	.47240	-.12920	.79040
1.980	-8.290	-.88400	-1.27610	.11030	.03320	-.05940	.89630	.11440	.46850	-.11440	.78200
1.980	-6.210	-.62200	-.93620	.04730	.08640	-.04170	.86820	.09640	.46100	-.09640	.77180
1.980	-4.130	-.41120	-.60990	.01190	.08780	-.02710	.86570	.08360	.46380	-.08360	.78190
1.980	-2.070	-.20240	-.26600	-.02030	.06510	-.00660	.84260	.07290	.46390	-.07290	.76970
1.980	-.010	-.02850	.07310	-.05590	.06970	.01660	.86000	.07370	.98400	-.07370	.78620
1.980	2.040	.17820	.45200	-.07900	.06240	.03330	.87490	.07220	.33050	-.07220	.80260
1.980	4.100	.36310	.82460	-.11600	.08050	.07200	.89150	.06410	.36410	-.06410	.80730
1.980	6.160	.56790	1.13170	-.14470	.09180	.10830	.94290	.10340	.36810	-.10340	.83930
1.980	8.230	.83730	1.78080	-.16960	.08910	.14600	.97640	.12330	.36230	-.12330	.85290
1.980	10.260	1.14540	2.22620	-.17660	.05450	.19460	.99740	.14330	.40330	-.14330	.85210
1.980	.000	.01420	.10960	-.06080	.08640	.00710	.83070	.06830	-.31510	-.06830	.76230
1.980	GRADIENT	.09379	.17447	-.01490	.00013	.01166	.00408	-.00001	-.01709	-.00001	.00407



TABULATED SOURCE DATA, NSFC TWT 567

(1897041) (23 APR 74)

DATE 11 JUL 74

NSFC 567 (FA4) TITAN III C SRM (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

REF = .0300 30. IN XMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
SREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 15/ 0 RM/L = 0.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMH	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.250	-1.40780	-1.0630	-1.0390	-0.8430	.76260	.06850	.49030	-.06850	.69410	
3.400	-8.290	-0.94000	-1.19170	-0.9880	-0.7490	.75300	.06270	.48280	-.06270	.69020	
3.400	-6.240	-0.80840	-0.84180	-0.9210	-0.5930	.73900	.05560	.47640	-.05560	.68010	
3.400	-4.210	-0.41240	-0.58650	-0.4170	-0.3430	.70320	.04940	.47150	-.04940	.65380	
3.400	-2.170	-0.19210	-0.31220	-0.1780	-0.1910	.70250	.04450	.44500	-.04450	.63790	
3.400	-1.400	-0.05540	-0.01430	-0.0240	-0.0370	.70470	.03600	.60000	-.03600	.66660	
3.400	1.890	-0.17180	-0.36290	-0.0910	0.3100	.73120	.04240	.36420	-.04240	.68070	
3.400	3.930	-0.35300	-0.67930	-0.0950	0.5330	.75440	.04650	.40790	-.04650	.70790	
3.400	5.950	-0.58410	-1.03500	-0.2930	0.8790	.78720	.05450	.42720	-.05450	.73260	
3.400	8.020	-0.84040	-1.39600	-0.6150	1.2460	.82300	.06300	.44120	-.06300	.76340	
3.400	9.980	-1.12320	-1.69250	-0.9360	1.5940	.84910	.06370	.46080	-.06370	.78330	
3.400	-1.140	-0.04730	-0.02340	-0.0760	-0.1720	.70090	.03700	.56870	-.03700	.66390	
GRADIENT		.09315	-.15765	-.01487	-.00061	.00625	-.00039	-.00926	.00039	.00644	

RUN NO. 16/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMH	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	-10.150	-0.95430	-1.30140	-1.4280	-0.04250	-0.09500	.66520	.00670	.47690	-.00670	.69850
4.959	-8.200	-0.78060	-1.11000	-1.0000	-0.07330	-0.12510	.63230	-.00360	.47150	-.00360	.63620
4.959	-6.180	-0.55060	-0.78360	-0.8610	-0.00950	-0.08460	.61980	-.00060	.47150	-.00060	.62040
4.959	-4.170	-0.34730	-0.57170	-0.4510	-0.03560	-0.05820	.60050	.00210	.44310	-.00210	.59830
4.959	-2.170	-0.17180	-0.31770	-0.0220	0.04900	-0.02650	.58610	.00440	.41750	-.00440	.58170
4.959	1.890	0.06100	-0.07290	-0.05670	-0.01890	-0.03790	.60140	.01120	.50030	-.01120	.59016
4.959	3.890	0.20520	-0.33700	-0.05940	-0.00200	-0.00960	.61880	.00660	.44320	-.00660	.61210
4.959	5.880	0.54920	-0.56980	-0.08150	-0.03430	-0.02630	.60700	.00310	.44380	-.00310	.64760
4.959	7.920	0.80640	-1.19900	-0.07810	-0.11110	-0.02980	.67980	.00360	.47040	-.00360	.67610
4.959	9.880	1.03060	-1.43410	-0.06770	-0.13860	-0.04700	.70650	.00490	.46330	-.00490	.70150
4.959	-1.130	0.00310	0.03070	-0.11010	-0.06950	0.06950	.79680	.00610	.47670	-.00610	.75070
GRADIENT		-.08754	-.14585	-.01363	-.00941	-.03360	.58170	.00740	-.56540	-.00740	.97430
						.00495	.00660	.00021	.00136	-.00021	.00639

NSPC 587(F40) TITAN III C SRM (WBETP)

(R97042) (23 APR 74)

REFERENCE DATA

BREF = .0300 90. IN INRP = 4.0330 IN.
 LBREF = .0000 IN. YMRP = .0000 IN.
 BRREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 191/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CTM	CTMN	CBL	CA	CAB	KCP/L	CPB1	CAF
.602	10.540	.58410	2.01530	-.22760	.03090	.17080	.65060	.11530	.21480	-.11350	.33500
.602	12.460	.79100	2.36640	-.28050	.05000	.23020	.66110	.12510	.25310	-.12510	.33600
.602	14.480	.93960	2.64510	-.33910	.10660	.29030	.64340	.13080	.29370	-.13080	.31260
.602	16.510	1.20240	3.03910	-.39740	.17930	.29840	.64290	.13520	.33160	-.13520	.30730
.602	18.530	1.48790	3.42210	-.46850	.21130	.33330	.63390	.13650	.36040	-.13650	.49730
.602	20.570	1.74900	3.81310	-.54630	.28580	.37710	.61280	.14790	.37490	-.14790	.46490
.602	22.610	2.09590	4.20990	-.75770	.45910	.42240	.60110	.17940	.39720	-.17940	.42160
.602	24.630	2.43360	4.59090	-.89420	.59780	.46670	.57830	.17450	.41270	-.17450	.40380
.602	26.680	2.81960	4.94520	-.93230	.69380	.50660	.56090	.18240	.42950	-.18240	.37840
.602	28.730	3.25900	5.31000	-.95340	.75890	.56720	.52820	.20000	.44190	-.20000	.32820
.602	30.680	3.65950	5.71700	-.82220	.77130	.59580	.49000	.20660	.45380	-.20660	.28340
.602	20.980	1.77990	3.85060	-.59290	.35440	.38340	.61990	.14320	.37770	-.14320	.47660
GRADIENT		.15317	.18583	-.03959	.04147	.02104	-.00784	.00466	.01147	-.00466	-.01250

RUN NO. 192/ 0 RM/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLW	CTM	CTMN	CBL	CA	CAB	KCP/L	CPB1	CAF
.699	10.620	.70290	1.94810	-.26310	-.02730	.18330	.63290	.11020	.30070	-.11020	.72260
.699	12.570	.91760	2.31780	-.25390	.07410	.20160	.63470	.12250	.33180	-.12250	.71210
.699	14.600	1.16230	2.70580	-.32850	.10200	.24160	.63450	.13250	.35690	-.13250	.70190
.699	16.660	1.48080	3.18710	-.42080	.12530	.27740	.62020	.14150	.37910	-.14150	.67870
.699	18.750	1.83370	3.69630	-.56830	.16680	.32300	.60710	.15690	.39910	-.15690	.63020
.699	20.820	2.24470	4.17880	-.57800	.27990	.35120	.77890	.16870	.41590	-.16870	.61010
.699	22.920	2.69390	4.75070	-.62580	.35730	.39970	.74820	.17690	.42830	-.17690	.56330
.699	24.990	3.15420	5.37450	-.46020	.36330	.43450	.78420	.18510	.43580	-.18510	.52110
.699	27.100	3.73130	6.12410	-.37780	.48100	.49540	.68250	.19270	.44360	-.19270	.48940
.699	29.210	4.33030	6.87020	-.41340	.59900	.53850	.64600	.20730	.45070	-.20730	.43860
.699	31.230	4.84730	7.58820	-.39810	.62400	.58020	.59110	.21530	.45330	-.21530	.37570
.699	20.840	2.28430	4.21290	-.42790	.25930	.33520	.78180	.16370	.41830	-.16370	.61810
GRADIENT		.20318	.27263	-.00684	.03091	.02012	-.01194	.00504	.00719	-.00504	-.01696



NSFC 307 (FA4) TITAN III C SRW (KBETP)

(R07042) (23 APR 74)

REFERENCE DATA

SREF = .0360 IN. YMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 270.000

PARAMETRIC DATA

RUN NO. 153/ 0 RM/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	10.710	.83230	2.24310	-.24000	.01810	.19260	1.29770	.23920	.31040	-.23920	1.01950
1.202	12.870	1.09600	2.63950	-.20910	.02970	.24750	1.26310	.23070	.34700	-.23070	1.01430
1.202	14.730	1.44650	3.08950	-.33640	.04000	.29770	1.26990	.25950	.36150	-.25950	1.00430
1.202	16.640	1.84775	3.58270	-.48240	.10090	.35860	1.25490	.27210	.40610	-.27210	.98280
1.202	18.950	2.31540	4.13980	-.47280	.23430	.41420	1.24050	.27930	.42920	-.27930	.96110
1.202	21.070	2.85920	4.80360	-.55050	.33110	.44940	1.22160	.29040	.43680	-.29040	.93120
1.202	23.200	3.44400	5.54330	-.61500	.40030	.51330	1.20910	.31210	.44780	-.31210	.89890
1.202	25.360	4.09300	6.36710	-.69250	.49370	.58140	1.19370	.33050	.45470	-.33050	.86310
1.202	27.510	4.78880	7.19860	-.78780	.59340	.62000	1.19580	.36340	.46230	-.36340	.83240
1.202	29.660	5.53130	7.92730	-.87970	.65490	.68430	1.17890	.38640	.47010	-.38640	.78650
1.202	31.750	6.27080	8.60100	-.95150	.74630	.72860	1.14690	.39330	.47790	-.39330	.73350
1.202	21.090	2.88950	4.67430	-.53940	.30330	.45120	1.19240	.27290	.43600	-.27290	.91940
GRADIENT		.28065	-.31031	-.03439	.03605	.02535	-.00550	.00764	.00725	-.00764	-.01314

RUN NO. 125/ 0 RM/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.907	10.780	1.09880	2.25290	-.18210	.05580	.19590	1.01060	.15270	.39430	-.15270	.86580
1.907	12.780	1.50660	2.68440	-.18000	.06110	.24740	1.03140	.15560	.42600	-.15560	.87580
1.907	14.860	1.94790	3.15480	-.22650	.07020	.28610	1.04730	.19860	.44650	-.19860	.88870
1.907	16.990	2.41200	3.61940	-.26480	.08890	.33000	1.06330	.16900	.46160	-.16900	.89420
1.907	19.100	2.88870	4.14920	-.32780	.14580	.36950	1.08710	.18090	.46970	-.18090	.90610
1.907	21.220	3.35650	4.67660	-.38930	.21540	.40710	1.10390	.19770	.47510	-.19770	.90620
1.907	23.350	3.90060	5.18160	-.45190	.31030	.44610	1.12800	.21240	.48330	-.21240	.91350
1.907	25.460	4.41860	5.56030	-.52840	.39920	.49000	1.13710	.22380	.49220	-.22380	.91320
1.907	27.580	5.01500	6.04690	-.57940	.45980	.54000	1.15200	.22000	.49890	-.22000	.93190
1.907	29.670	5.48900	6.26440	-.60350	.51180	.57120	1.13670	.22410	.50660	-.22410	.91250
1.907	31.700	6.06820	6.80760	-.61410	.53330	.61920	1.14770	.22590	.50950	-.22590	.92180
1.907	21.200	3.36910	4.59960	-.39450	.20250	.40250	1.09300	.19460	.47870	-.19460	.89830
GRADIENT		.23766	-.21977	-.02392	.02649	.01964	.00678	.00417	.00468	-.00417	-.00261

MAFPC 567 (FAJ) TITAN III C 0PH (MSETP)

(R97042) (23 APR 74)

REFERENCE DATA

SREF = .0300 56. IN XMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 GREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 270.000

RUN NO. 167 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	10.510	1.13320	1.75420	-.08070	-.09570	.11500	.87310	-.06390	.45560	-.04950	.80910
3.400	12.320	1.45390	2.13610	-.09730	-.09300	.13060	.87770	-.06020	.46550	-.04950	.82940
3.400	14.340	1.78700	2.51110	-.10390	-.06050	.16310	.92970	-.07200	.47360	-.07200	.83370
3.400	16.390	2.14670	2.88550	-.11680	-.09990	.21490	.98670	-.07500	.48250	-.07500	.89170
3.400	18.430	2.51920	3.17190	-.15400	-.06940	.23010	.98590	-.07290	.49210	-.07290	.91300
3.400	20.710	2.93100	3.54910	-.19070	-.09830	.27990	1.01870	-.06270	.49820	-.06270	.95990
3.400	22.770	3.36960	3.89110	-.22650	-.00050	.32260	1.05530	-.04650	.50530	-.04650	1.00680
3.400	24.840	3.84400	4.29000	-.26350	-.09550	.36490	1.09380	-.03390	.51030	-.03390	1.06000
3.400	26.890	4.31930	4.63100	-.29370	-.00950	.41390	1.12750	-.02420	.51980	-.02420	1.10330
3.400	28.982	4.83260	5.02840	-.32250	-.05430	.46900	1.15960	-.01610	.51900	-.01610	1.14350
3.400	30.970	5.31970	5.39300	-.34490	-.10220	.51620	1.19730	-.00940	.52320	-.00940	1.17760
3.400	20.700	2.90570	3.51590	-.15050	-.03130	.28790	1.01900	-.06020	.49830	-.06020	.95870
GRADIENT		-.20487	-.17561	-.01380	-.00759	.01954	.01570	-.00323	.00332	-.00323	.01893

RUN NO. 177 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	10.400	1.03660	1.49600	-.06310	-.13780	.07410	.79640	-.00490	.46680	-.06490	.79150
4.959	12.320	1.32060	1.77360	-.07098	-.16160	.08670	.83790	-.00090	.48150	-.08080	.83700
4.959	14.340	1.60770	2.02150	-.08470	-.19130	.11948	.88100	-.00010	.49230	-.00010	.86120
4.959	16.360	1.96010	2.36130	-.09630	-.09640	.17940	.93060	-.00210	.50960	-.00210	.92640
4.959	18.390	2.35360	2.64230	-.12410	-.12000	.20680	.97770	-.00310	.50940	-.00310	.98080
4.959	20.410	2.78520	2.93560	-.16550	-.13390	.23510	1.03650	-.01010	.51610	-.01010	1.04670
4.959	22.440	3.27250	3.23990	-.17700	-.12220	.32320	1.08510	-.02650	.52620	-.02650	1.11170
4.959	24.470	3.67590	3.47890	-.23070	-.11740	.33210	1.12730	-.03790	.53170	-.03790	1.16520
4.959	26.500	4.19270	3.95910	-.23760	-.06620	.40720	1.17100	-.04290	.53200	-.04290	1.21400
4.959	28.530	4.82410	4.29230	-.29890	-.08640	.42990	1.20330	-.04640	.53430	-.04640	1.24970
4.959	30.480	5.11070	4.74010	-.31110	-.00570	.48740	1.23750	-.06080	.53410	-.06080	1.29930
4.959	20.410	2.73000	2.88180	-.17880	-.13340	.26370	1.02940	-.02200	.51680	-.02200	1.05140
GRADIENT		-.20568	-.15722	-.01305	-.00615	.02128	.02270	-.00338	.00331	-.00338	.02688



NSPC 907 (FA4) TITAN 111 C SRN (MBETP)

(R97043) (23 APR 74)

REFERENCE DATA

BREF = .6300 IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 270.000

PARAMETRIC DATA

RUN NO. 154/ 0 RM/L = 6.60 GRADIENT INTERVAL = -5.007 9.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	31.930	6.33530	6.49350	-1.00940	.72326	.76776	1.14030	.37000	.48180	-.37000	.77730
1.197	33.970	7.03090	9.17290	-1.04740	.73680	.80860	1.12320	.37680	.48640	-.37680	.74440
1.197	36.100	7.76630	9.89370	-1.11510	.74450	.87350	1.09500	.38770	.49020	-.38770	.70720
1.197	38.260	8.36390	10.60900	-1.00460	.74630	.91980	1.05540	.39700	.49130	-.39700	.65640
1.197	40.390	9.03040	11.27060	-.89700	.52540	.96030	.99840	.36320	.49350	-.36320	.63320
1.197	42.520	9.61240	11.84120	-.82390	.42550	.98270	.95030	.33000	.49560	-.33000	.61950
1.197	44.650	10.21230	12.56600	-.78610	.38330	1.00500	.86900	.29810	.49370	-.29810	.57000
1.197	46.770	10.78570	13.24250	-.74280	.20190	1.02690	.82180	.26030	.49610	-.26030	.53350
1.197	48.890	11.35970	14.15170	-.69380	1.20720	1.04760	.85980	.36280	.49100	-.36280	.49690
1.197	50.970	11.38560	14.71560	-.59970	.90760	1.02010	.80510	.34340	.48790	-.34340	.46160
1.197	52.970	11.71110	15.14110	-.60360	.63590	1.01990	.74360	.32320	.48780	-.32320	.42030
1.197	42.330	9.82050	11.83260	-.82080	.45940	.98940	.94650	.34610	.49580	-.34610	.60040
GRADIENT		.23984	.32101	.02492	.00169	.01245	-.01975	-.00317	.00022	.00317	-.01658

RUN NO. 19/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	31.090	5.36580	5.41370	-.34490	.06650	.51370	1.20140	.07270	.52420	-.07270	1.12860
3.480	33.040	5.87370	5.60950	-.37510	.12320	.56250	1.22210	.06680	.52540	-.06680	1.15530
3.480	35.120	6.38960	6.28080	-.41790	.15620	.60350	1.22710	.06170	.52680	-.06170	1.16330
3.480	37.160	6.89910	6.77010	-.44800	.18510	.65360	1.22630	.05600	.52730	-.05600	1.17230
3.480	39.250	7.41380	7.21120	-.49100	.19660	.70960	1.22670	.05020	.52840	-.05020	1.17640
3.480	41.350	7.92650	7.63690	-.51430	.23740	.75450	1.22180	.04270	.52950	-.04270	1.17910
3.480	43.420	8.43190	8.07190	-.55770	.24260	.80290	1.21590	.03260	.53030	-.03260	1.18330
3.480	45.490	8.91260	8.47310	-.58790	.24310	.84810	1.19660	.02520	.53120	-.02520	1.17130
3.480	47.540	9.40410	8.87110	-.61900	.23040	.86950	1.17870	.02670	.53260	-.02670	1.15280
3.480	49.630	9.85400	9.26440	-.65000	.23080	.93530	1.15870	.02190	.53250	-.02190	1.13670
3.480	51.610	10.26950	9.64720	-.67570	.21510	.97540	1.13280	.01120	.53260	-.01120	1.12160
3.480	41.340	7.91220	7.61130	-.53320	.21630	.75860	1.22130	.01290	.52970	-.01290	1.17830
GRADIENT		.23961	.20810	-.01630	.00663	.02237	-.00359	-.00223	.00042	.00295	-.00063

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 587 (F44) TITAN III C SWM (MSTP)

(197044) (23 APR 74)

REFERENCE DATA

REF = .6308 3d. IN IREF = 4.6338 IN.
 LREF = .8808 IN. IREF = .0000 IN.
 SREF = .9000 IN. IREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 189/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CFB1	CAF
.999	50.450	7.70980	10.43690	.35100	1.00320	.81410	.31650	.00000	.49010	.00000	.31650
.999	52.340	8.05980	10.82680	.39000	2.31240	.87300	.24960	.00000	.48150	.00000	.24960
.999	54.350	8.39630	11.22730	.46830	2.51800	.90530	.16840	.00000	.48220	.00000	.16840
.999	56.360	8.67890	11.74850	.59060	2.77360	.91710	.11950	.00000	.47990	.00000	.11950
.999	58.370	8.91920	12.12590	.44360	2.79750	.90300	.07700	.00000	.47940	.00000	.07700
.999	60.380	9.10150	12.44800	.36470	2.57090	.89950	.02590	.00000	.47840	.00000	.02590
.999	62.400	9.29070	12.69380	.41550	2.26590	.87910	-.01980	.00000	.47860	.00000	-.01980
.999	64.400	9.42240	12.78310	.40460	1.89990	.88530	-.06810	.00000	.47980	.00000	-.06810
.999	66.380	9.53570	12.76120	.34760	1.50280	.85920	-.12220	.00000	.48210	.00000	-.12220
.999	68.400	9.63330	12.60360	.24270	1.13610	.86220	-.15990	.00000	.48520	.00000	-.15990
.999	70.290	9.68930	12.48270	.17170	.98180	.85470	-.19990	.00000	.48870	.00000	-.19990
.999	60.380	9.04330	12.38480	.44200	2.54960	.88000	.02950	.00000	.47810	.00000	.02950
GRADIENT		.09812	.11262	-.00972	-.06172	-.00031	-.02530	.00000	.00026	.00000	-.02530

RUN NO. 190/ 1 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CFB1	CAF
.900	50.600	9.07850	14.45370	.00550	.19180	.77490	.49490	.00000	.45000	.00000	.49490
.900	52.700	9.46070	14.85490	-.04950	.12400	.79320	.48000	.00000	.45220	.00000	.48000
.900	54.710	9.68760	15.05160	-.12510	-.09960	.79560	.44680	.00000	.45430	.00000	.44680
.900	56.710	9.96270	15.33970	-.14960	-.15070	.80120	.38840	.00000	.45660	.00000	.38840
.900	58.710	10.13730	15.21310	-.17430	-.13680	.82490	.33380	.00000	.46150	.00000	.33380
.900	60.650	10.09990	13.56250	-.17160	-.03940	.85350	.38150	.00000	.48150	.00000	.38150
.900	62.630	10.25940	13.09310	-.23690	.01740	.87400	.36970	.00000	.49000	.00000	.36970
.900	64.610	10.42840	12.63890	-.31670	.10910	.90510	.38790	.00000	.49570	.00000	.38790
.900	66.570	10.63830	12.38470	-.35580	.13980	.94140	.38920	.00000	.50410	.00000	.38920
.900	68.570	10.79120	11.93300	-.38740	.20340	.96470	.37150	.00000	.51150	.00000	.37150
.900	70.450	10.88470	11.52330	-.43700	.25290	.97530	.34340	.00000	.51750	.00000	.34340
.900	60.630	10.12480	13.59200	-.21410	-.05290	.85600	.41280	.00000	.48410	.00000	.41280
GRADIENT		.08414	-.19220	-.02144	.00925	.01097	-.06604	.00000	.00365	.00000	-.06604



PARAMETRIC DATA

REF = .6500 94. IN Δ MRP = 4.6330 IN. BETA = .900 PHI = 270.000
 LREF = .9000 IN. Δ MRP = .0000 IN.
 BREF = .9000 IN. Δ MRP = .0000 IN.
 SCALE = .0074

RUN NO. 191/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.199	50.800	10.80170	13.57010	-0.0370	.21820	.95750	.94690	.00000	.49360	.00000	.94690
1.198	52.780	11.26210	14.06390	-0.3340	.14740	.95470	.91400	.00000	.49370	.00000	.91400
1.196	54.800	11.89060	14.44340	-0.6160	.10120	1.00010	.80060	.00000	.49310	.00000	.80060
1.198	56.900	12.07780	14.47550	-0.7310	.07310	1.03530	.84030	.00000	.49980	.00000	.84030
1.198	58.800	12.43450	14.63310	-0.72240	.39860	1.06550	.77390	.00000	.50230	.00000	.77390
1.198	60.810	12.66290	14.82820	-0.69000	.52470	1.07890	.71600	.00000	.50350	.00000	.71600
1.198	62.820	12.93640	14.66820	-0.71230	.58440	1.09760	.63300	.00000	.50800	.00000	.63300
1.198	64.800	13.12490	14.26100	-0.73380	.58470	1.12420	.60430	.00000	.51400	.00000	.60430
1.198	66.770	13.38190	14.24990	-0.76050	.53420	1.15090	.55200	.00000	.51670	.00000	.55200
1.198	68.780	13.62040	14.05730	-0.78960	.47790	1.16690	.50360	.00000	.52090	.00000	.50360
1.198	70.800	13.75010	13.72390	-0.82150	.53560	1.18170	.47360	.00000	.52320	.00000	.47360
1.198	80.830	12.60380	14.71190	-0.69490	.51630	1.09080	.72310	.00000	.50470	.00000	.72310
GRADIENT		.14339	-.00108	-.01617	.02189	.01203	-.02354	.00000	.00167	.00000	-.02354

RUN NO. 246/ 0 RN/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.933	50.730	10.57430	10.08030	-0.3400	.56430	.99000	1.13030	.00000	.53080	.00000	1.13030
1.933	52.740	11.04190	10.49700	-0.66210	.56940	1.02530	1.09980	.00000	.53120	.00000	1.09980
1.933	54.896	11.53630	10.95680	-0.87420	.58740	1.05810	1.07150	.00000	.53150	.00000	1.07150
1.933	56.890	11.92720	11.17060	-0.89310	.59130	1.08580	1.05410	.00000	.53290	.00000	1.05410
1.933	58.700	12.27340	11.32370	-0.90890	.61130	1.11210	.99570	.00000	.53470	.00000	.99570
1.933	60.730	12.61970	11.47000	-0.93620	.59520	1.12370	.95370	.00000	.53640	.00000	.95370
1.933	62.710	12.90520	11.54320	-0.94490	.63020	1.15070	.90670	.00000	.53830	.00000	.90670
1.933	64.710	13.19310	11.59420	-0.93420	.66330	1.17330	.85730	.00000	.54030	.00000	.85730
1.933	66.710	13.57400	11.71500	-0.99910	.69060	1.20470	.80900	.00000	.54220	.00000	.80900
1.933	68.730	13.85600	11.73780	-1.00440	.67470	1.22010	.75730	.00000	.54430	.00000	.75730
1.933	70.810	14.09910	11.77760	-1.02120	.65910	1.23310	.70730	.00000	.54580	.00000	.70730
1.933	80.860	12.49320	11.17700	-0.92430	.59900	1.12340	.94010	.00000	.53790	.00000	.94010
GRADIENT		.17359	.07669	-.00909	.00622	.01805	-.02144	.00000	.00081	.00000	-.02144

MOPC 567 (P44) TITAN III C 04IN (MSTP)

(R97044) (23 APR 74)

REFERENCE DATA

MREF = .6368 90. IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 FMI = 270.000

RUN NO. 304/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTM	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	50.470	9.72370	9.43590	-.66130	.48500	.92890	1.20980	.00000	-.54170	.00000	1.20360
3.480	52.380	10.17640	9.76900	-.70340	.42560	.97840	1.18560	.00000	-.54240	.00000	1.18580
3.480	54.410	10.57490	9.16700	-.73490	.39950	1.00690	1.15150	.00000	-.54250	.00000	1.15150
3.480	56.430	10.90610	9.43920	-.76490	.42250	1.04730	1.11650	.00000	-.54270	.00000	1.11650
3.480	58.440	11.30350	9.73520	-.78310	.40610	1.07880	1.07650	.00000	-.54320	.00000	1.07650
3.480	60.440	11.73980	9.99330	-.82810	.37870	1.10860	1.03150	.00000	-.54380	.00000	1.03150
3.480	62.450	12.07680	10.16760	-.83070	.36040	1.13500	.98490	.00000	-.54490	.00000	.98490
3.480	64.460	12.42170	10.36640	-.83440	.40970	1.16310	.93690	.00000	-.54580	.00000	.93690
3.480	66.460	12.70430	10.46750	-.85730	.39840	1.18480	.89170	.00000	-.54720	.00000	.89170
3.480	68.480	12.98560	10.53670	-.86720	.39970	1.20490	.83770	.00000	-.54800	.00000	.83770
3.480	70.340	13.22960	10.65030	-.88390	.40350	1.23150	.78490	.00000	-.54960	.00000	.78490
3.480	80.440	11.69260	9.92430	-.80780	.37110	1.12790	1.02780	.00000	-.54410	.00000	1.02780
GRADIENT		-.17592	.11147	-.01055	-.00094	.1472	-.02146	.00000	.00040	.00000	-.02146

RUN NO. 305/ 0 RM/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTM	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.390	9.58160	7.69200	-.63730	.25970	.96090	1.26570	.00000	-.54990	.00000	1.26570
4.939	52.200	10.02020	9.05030	-.66640	.22020	.99560	1.26610	.00000	-.54980	.00000	1.26610
4.939	54.230	10.51210	8.44520	-.70670	.26330	1.06390	1.24200	.00000	-.54980	.00000	1.24200
4.939	56.230	10.91960	8.86790	-.74900	.27310	1.10400	1.20040	.00000	-.54870	.00000	1.20040
4.939	58.240	11.31640	9.19640	-.76150	.30650	1.15060	1.15430	.00000	-.54860	.00000	1.15430
4.939	60.240	11.64550	9.51920	-.80550	.22890	1.14960	1.06290	.00000	-.54820	.00000	1.06290
4.939	62.250	12.04490	9.87800	-.80410	.27300	1.17880	1.03480	.00000	-.54790	.00000	1.03480
4.939	64.230	12.40970	10.07250	-.83080	.25130	1.20590	.97930	.00000	-.54870	.00000	.97930
4.939	66.230	12.69580	10.22290	-.84270	.25720	1.20870	.91320	.00000	-.54960	.00000	.91320
4.939	68.200	12.98350	10.43670	-.87010	.25050	1.23700	.85390	.00000	-.54970	.00000	.85390
4.939	70.160	13.29740	10.63860	-.88750	.29950	1.27440	.79000	.00000	-.55020	.00000	.79000
4.939	80.240	11.60890	9.50730	-.80540	.25920	1.16900	1.09030	.00000	-.54780	.00000	1.09030
GRADIENT		.10528	-.14882	-.01174	.00091	.01456	-.02550	.00000	-.00000	.00000	-.02550



NSFC 587 (FA4) TITAN III: C SRN (MDETF)

(R07045) (23 APR 74)

REFERENCE DATA

SRFP = .6380 90. IN THRP = 4.6330 IN.
 LRFP = .9000 IN. THRP = .0000 IN.
 BRFP = .9000 IN. ZHRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 27C.090

PARAMETRIC DATA

RUN NO. 1067/ 0 RM/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CFB1	CAF
.596	70.430	9.47840	12.14750	.17240	.93140	.89890	-.10430	.00000	.49930	.00000	-.10430
.596	72.330	9.80390	11.89880	.12630	.89750	.88090	-.13080	.00000	.49470	.00000	-.13080
.596	74.310	9.53630	11.23240	.05210	.72840	.68640	-.17860	.00000	.50240	.00000	-.17860
.596	76.270	9.32010	9.79240	-.15010	.33390	.30190	-.04110	.00000	.51850	.00000	-.04110
.596	78.250	9.31510	9.14580	-.09800	.45010	.42540	-.03740	.00000	.52720	.00000	-.03740
.596	80.260	9.24990	9.59390	.04360	.62890	.59240	-.00440	.00000	.53430	.00000	-.00440
.596	82.240	9.30920	7.99910	.16980	.58780	.54800	.03620	.00000	.54270	.00000	.03620
.596	84.220	9.42000	7.25570	.22700	.40420	.33040	.07950	.00000	.54410	.00000	.07950
.596	86.180	9.55850	6.54300	.13590	.61510	.56040	.13100	.00000	.54480	.00000	.13100
.596	88.160	9.57500	5.87710	-.08970	.75020	.61600	.16800	.00000	.57360	.00000	.16800
.596	90.070	9.55920	5.34450	-.12570	.58900	1.06010	.11930	.00000	.58070	.00000	.11930
.596	80.240	9.25370	6.51030	.04440	.63690	.82830	.00390	.00000	.53510	.00000	.00390
GRADIENT		.00260	-.36124	-.00492	-.00981	.00868	.01697	.00000	.00483	.00000	.01697

RUN NO. 1077/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.80/ 5.00

MACH	ALPHA	CNN	CLNN	CYN	CYNN	CBL	CA	CAB	XCP/L	CFB1	CAF
.901	70.620	10.80610	11.40240	-.41330	.38080	.99250	.41900	.00000	.51790	.00000	.41900
.901	72.480	10.95780	11.15010	-.43070	.42820	1.01740	.38520	.00000	.52270	.00000	.38520
.901	74.470	11.01910	10.85050	-.44280	.44670	1.03350	.34170	.00000	.52680	.00000	.34170
.901	76.450	11.10870	10.57130	-.44390	.43390	1.05160	.29080	.00000	.53100	.00000	.29080
.901	78.430	11.31160	10.25860	-.42710	.37710	1.07260	.28160	.00000	.53710	.00000	.28160
.901	80.410	11.34170	9.74790	-.38660	.29160	1.06560	.26090	.00000	.54270	.00000	.26090
.901	82.410	11.49690	9.31970	-.40110	.32790	1.07830	.25030	.00000	.54860	.00000	.25030
.901	84.380	11.51230	8.75970	-.45640	.38220	1.10040	.20130	.00000	.55320	.00000	.20130
.901	86.330	11.61720	8.09480	-.50980	.39880	1.13920	.19310	.00000	.56370	.00000	.19310
.901	88.320	11.73060	7.43240	-.52890	.42930	1.17280	.17590	.00000	.57070	.00000	.17590
.901	90.190	11.81370	6.50870	-.54320	.42770	1.19900	.15260	.00000	.57590	.00000	.15260
.901	80.440	11.49890	9.89590	-.39400	.30980	1.07620	.26470	.00000	.54220	.00000	.26470
GRADIENT		.05038	-.23103	-.00372	-.00046	.00957	-.01313	.00000	.00305	.00000	-.01313

NSFC 807 (FAA) TITAN III C 8RM (HDET)

(097043) (23 APR 74)

REFERENCE DATA

SREF = .0300 90. IN XMP = 4.0330 IN.
 LREF = .0000 IN. YMP = .0000 IN.
 BREF = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 136/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMN	CLMW	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	70.810	13.50490	13.30930	-7.0540	.49900	1.17040	.91150	.00000	.92800	.00000	.91150
1.194	72.670	13.72070	13.05910	-6.1720	.56200	1.20080	.49440	.00000	.53100	.00000	.49440
1.194	74.630	13.91280	12.70600	-6.0300	.59760	1.22240	.45450	.00000	.53590	.00000	.45450
1.194	76.630	14.08140	12.38370	-6.0660	.62540	1.24320	.42400	.00000	.54020	.00000	.42400
1.194	78.600	14.23610	11.99040	-6.0900	.61740	1.26230	.39950	.00000	.54540	.00000	.39950
1.194	80.590	14.38750	11.52070	-6.1140	.63930	1.28220	.36220	.00000	.55010	.00000	.36220
1.194	82.570	14.52350	11.18990	-6.1370	.65260	1.30740	.32300	.00000	.55400	.00000	.32300
1.194	84.550	14.64960	10.87990	-6.1590	.65830	1.31370	.27950	.00000	.55770	.00000	.27950
1.194	86.510	14.74420	10.50120	-6.1800	.63190	1.32670	.25260	.00000	.56130	.00000	.25260
1.194	88.510	14.80470	10.11610	-6.2150	.65690	1.33600	.21040	.00000	.56500	.00000	.21040
1.194	90.380	14.86700	9.70190	-6.2500	.67780	1.35100	.19110	.00000	.56890	.00000	.19110
1.194	90.590	14.90510	11.51740	-6.4340	.62320	1.27170	.36470	.00000	.55010	.00000	.35470
GRADIENT		.06974	-.18731	-.00715	.00667	.00071	-.01712	.00000	.00217	.00000	-.01712

RUN NO. 247/ 0 RM/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMN	CLMW	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.981	70.760	13.90250	11.54960	-1.00410	.84790	1.22900	.73560	.00000	.94630	.00000	.73560
1.981	72.640	14.16950	11.61580	-.99890	.65140	1.24630	.60380	.00000	.94770	.00000	.60380
1.981	74.660	14.40060	11.60220	-.99950	.65490	1.26000	.62310	.00000	.94950	.00000	.62310
1.981	76.650	14.63720	11.54720	-1.00080	.64150	1.26160	.56250	.00000	.95160	.00000	.56250
1.981	78.650	14.80370	11.42750	-.99630	.63050	1.26510	.49920	.00000	.95380	.00000	.49920
1.981	80.680	15.00060	11.29590	-.98200	.64590	1.27780	.44960	.00000	.95620	.00000	.44960
1.981	82.640	15.14950	11.08090	-.97690	.64760	1.28140	.39360	.00000	.95890	.00000	.39360
1.981	84.620	15.28610	10.82370	-.96550	.66330	1.28440	.34550	.00000	.96170	.00000	.34550
1.981	86.580	15.52720	10.49060	-1.00470	.66470	1.29080	.29700	.00000	.96480	.00000	.29700
1.981	88.580	15.39010	10.18900	-1.00610	.69190	1.31000	.24400	.00000	.96770	.00000	.24400
1.981	90.440	15.41240	9.90450	-1.01680	.69270	1.31370	.17790	.00000	.97010	.00000	.17790
1.981	90.630	14.95250	11.22500	-.98670	.63420	1.27280	.45150	.00000	.95650	.00000	.45150
GRADIENT		.07737	-.08729	-.00027	.00214	.00397	-.02792	.00000	.00124	.00000	-.02792



TABULATED SOURCE DATA, MSFC TWT 507

(R07043) (23 APR 74)

MSFC 507(FAA) TITAN III C SRM (M0ETP)

PARAMETRIC DATA

BETA = .000 PHI = 270.003

REFERENCE DATA

REF = .6300 50. IN IRRP = 4.0330 IN.
 LREF = .9000 IN. IRRP = .0000 IN.
 REF = .9000 IN. IRRP = .0000 IN.
 SCALE = .0074

RUN NO. 307/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CTYM	CBL	CA	CAB	KCP/L	CPB/L	CAF
3.400	70.320	13.28610	10.74410	-.06110	.34590	1.17910	.01580	.00000	.54920	.00000	-.01590
3.400	72.420	13.57700	10.85850	-.05860	.35910	1.21430	.76560	.00000	.55730	.00000	-.76560
3.400	74.440	13.81910	10.87080	-.05540	.36040	1.22990	.71530	.00000	.55190	.00000	-.71530
3.400	76.430	14.02990	10.81950	-.05720	.37230	1.25570	.63390	.00000	.55390	.00000	-.63390
3.400	78.450	14.24040	10.71280	-.06550	.37320	1.25350	.59130	.00000	.55630	.00000	-.59130
3.400	80.430	14.39260	10.46540	-.06890	.39310	1.26770	.51950	.00000	.55940	.00000	-.51950
3.400	82.420	14.57100	10.26480	-.06800	.43360	1.29090	.46010	.00000	.56230	.00000	-.46010
3.400	84.410	14.69000	10.05410	-.06340	.45150	1.30800	.40060	.00000	.56490	.00000	-.40060
3.400	86.390	14.77430	9.80390	-.05460	.45950	1.31360	.33090	.00000	.56730	.00000	-.33090
3.400	88.390	14.81830	9.56260	-.04990	.45590	1.30950	.25790	.00000	.56980	.00000	-.25790
3.400	90.260	14.85700	9.35530	-.04180	.46210	1.33520	.20140	.00000	.57180	.00000	-.20140
3.400	90.410	14.40090	10.45730	-.07100	.39600	1.28720	.52340	.00000	.55960	.00000	-.55960
GRADIENT		.07929	-.07918	.00045	.00724	.00730	-.03157	.00000	.00122	.00000	-.03157

RUN NO. 306/ 1 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CTYM	CBL	CA	CAB	KCP/L	CPB/L	CAF
4.959	70.320	13.28610	10.33370	-.06390	.27260	1.18210	.09060	.00000	.55290	.00000	-.09060
4.959	72.400	13.58570	10.47960	-.06160	.28750	1.21720	.02920	.00000	.55980	.00000	-.02920
4.959	74.220	13.80840	10.49060	-.05690	.34970	1.27240	.77700	.00000	.55150	.00000	-.77700
4.959	76.220	14.03830	10.50570	-.06190	.34680	1.27640	.71260	.00000	.55680	.00000	-.71260
4.959	78.220	14.26890	10.38430	-.06960	.38700	1.29920	.65640	.00000	.55950	.00000	-.65640
4.959	80.220	14.43580	10.27360	-.07180	.37000	1.28780	.56600	.00000	.56170	.00000	-.56600
4.959	82.210	14.60070	10.15400	-.06760	.38770	1.31450	.46850	.00000	.56350	.00000	-.46850
4.959	84.210	14.75010	9.95090	-.07720	.36950	1.33150	.41620	.00000	.56610	.00000	-.41620
4.959	86.230	14.86210	9.84810	-.06980	.40990	1.33370	.33240	.00000	.56760	.00000	-.33240
4.959	88.220	14.89040	9.65300	-.06670	.36900	1.33620	.25360	.00000	.56840	.00000	-.25360
4.959	90.100	14.88040	9.52780	-.05910	.42610	1.33830	.18240	.00000	.57050	.00000	-.18240
4.959	90.250	14.40940	10.22370	-.06630	.35800	1.32180	.37520	.00000	.56170	.00000	-.37520
GRADIENT		.08342	-.04839	.00077	.00592	.00707	-.03634	.00000	.00093	.00000	-.03634

WSPC 507 (744) TITAN 211 C SHW (MDETR2)

(807046) (23 APR 74)

REFERENCE DATA

REF = .6303 SA. IN ZMRP = 4.6338 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9100 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 278.000

RUN NO. 227/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
.599	109.580	8.76790	-4.3170	.20038	-.24430	1.04120	-.02490	.00000	.63770	.00000	-.02490
.599	107.650	8.07570	-.03410	-.14500	-.28460	1.04060	.09040	.00000	.63200	.00000	-.09040
.599	105.650	8.97010	-.33250	-.14070	-.32808	1.03260	.17670	.00000	.64680	.00000	-.17670
.599	103.660	9.07140	.73390	-.09340	-.37350	1.07130	.20960	.00000	.64100	.00000	-.20960
.599	101.670	9.17600	1.17320	-.02810	-.41460	1.06820	.37490	.00000	.63530	.00000	-.37490
.599	99.680	9.18340	1.58870	.01270	-.41460	1.06820	.46420	.00000	.62960	.00000	-.46420
.599	97.690	9.23170	2.11820	.00470	-.39600	1.06360	.48900	.00000	.62250	.00000	-.48900
.599	95.710	9.26180	2.70770	-.06350	-.31390	1.04940	.35680	.00000	.61450	.00000	-.35680
.599	93.720	9.39020	3.20580	-.02890	-.31740	1.06360	.34540	.00000	.60830	.00000	-.34540
.599	91.710	9.41830	3.70660	-.04130	-.26610	1.05240	.36400	.00000	.60170	.00000	-.36400
.599	89.690	9.51910	4.26190	.02670	-.39410	1.04430	.35780	.00000	.59480	.00000	-.35780
.599	87.680	9.17050	1.56520	-.01250	-.39270	1.07690	.45720	.00000	.62990	.00000	-.45720
GRADIENT		-.03476	-.23608	-.00999	.00248	-.00025	-.01744	.00000	.00320	.00000	-.01744

RUN NO. 228/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
.904	109.330	10.75750	1.81170	-.33780	.35300	1.15360	-.16770	.00000	.83250	.00000	-.16770
.904	107.410	10.94710	2.08460	-.33640	-.32970	1.16730	-.04780	.00000	.82740	.00000	-.04780
.904	105.460	11.22350	2.36280	-.34370	.33420	1.17710	.07430	.00000	.82210	.00000	.07430
.904	103.480	11.26740	3.03910	-.35740	.31660	1.19130	.16800	.00000	.81740	.00000	.16800
.904	101.490	11.43340	3.54810	-.37270	.39990	1.20350	.22440	.00000	.81230	.00000	.22440
.904	99.490	11.45860	3.95690	-.39070	.43420	1.19000	.18510	.00000	.80780	.00000	.18510
.904	97.530	11.53310	4.40920	-.39730	.39960	1.19710	.16940	.00000	.80320	.00000	-.16940
.904	95.550	11.56870	4.90300	-.40360	.33700	1.19010	.21040	.00000	.89780	.00000	-.21040
.904	93.570	11.71270	5.37590	-.41550	.32780	1.18260	.22590	.00000	.89120	.00000	-.22590
.904	91.600	11.87110	6.26210	-.40300	.34350	1.16410	.25470	.00000	.88470	.00000	-.25470
.904	89.740	11.94680	7.23540	-.33740	.10950	1.13450	.27990	.00000	.87480	.00000	-.27990
.904	87.800	11.58180	4.02650	-.40560	.43270	1.20210	.19080	.00000	.86750	.00000	-.19080
GRADIENT		-.05376	-.26920	.00271	.00524	.00346	-.01803	.00000	.00277	.00000	-.01803



NSFC 587 (FA4) TITAN III C SRM (MBETP)

(897046) (23 APR 74)

REFERENCE DATA

SREF = .0380 IN. XMRP = 4.0338 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BRP = .8678 IN. ZMRP = .0000 IN.
 SCAL = .0074

PARAMETRIC DATA

BETA = .000 PMI = 278.000

RUN NO. 229/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	'NUN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	109.220	13.19200	4.19930	-74100	.67910	1.26000	-.90730	.00000	.61120	.00000	-.30730
1.200	107.330	13.44940	4.67740	-74210	.68000	1.27360	-.39840	.00000	.60750	.00000	-.39040
1.200	105.390	13.70740	5.24000	-72880	.79960	1.29960	-.27220	.00000	.60310	.00000	-.27220
1.200	103.370	14.01950	5.83010	-70710	.96480	1.31700	-.16660	.00000	.59790	.00000	-.16660
1.200	101.400	14.21220	6.66880	-.89300	.89820	1.32020	-.04740	.00000	.59210	.00000	-.04740
1.200	99.430	14.37680	7.31680	-.70180	.90960	1.31910	.03000	.00000	.58710	.00000	.03000
1.200	97.450	14.43880	7.80320	-.71300	.92360	1.31950	.11450	.00000	.58300	.00000	.11450
1.200	95.470	14.53790	8.27140	-.71890	.93700	1.31980	.17790	.00000	.57950	.00000	.17790
1.200	93.490	14.67880	8.70040	-.72050	.96270	1.32880	.23410	.00000	.57650	.00000	.23410
1.200	91.490	14.87160	9.00490	-.70800	.85360	1.31910	.27690	.00000	.57300	.00000	.27690
1.200	89.490	14.67120	9.36780	-.68820	.85040	1.30740	.30800	.00000	.57070	.00000	.30800
1.200	87.490	14.35270	7.33630	-.69320	.91410	1.32700	.02210	.00000	.56680	.00000	.02210
1.200	GRADIENT	-.07396	-.27397	-.00179	-.00836	-.00233	-.04217	.00000	.00214	.00000	-.04217

RUN NO. 239/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.949	109.270	13.58970	6.44890	-.60330	.88670	1.19870	-.57110	.00000	.59140	.00000	-.57110
1.949	107.390	13.85590	6.79300	-.62020	.92330	1.21540	-.46640	.00000	.58950	.00000	-.46640
1.949	105.380	14.14140	7.17270	-.63190	.98290	1.22900	-.36180	.00000	.58730	.00000	-.36180
1.949	103.390	14.35520	7.59340	-.63490	.97970	1.25310	-.25960	.00000	.58490	.00000	-.25960
1.949	101.390	14.67200	7.94870	-.63200	.99700	1.28150	-.14960	.00000	.58290	.00000	-.14960
1.949	99.370	14.85740	8.24360	-.67730	1.01840	1.29400	-.09010	.00000	.58130	.00000	-.09010
1.949	97.380	15.03960	8.60980	-.68960	1.01730	1.30990	.04070	.00000	.57900	.00000	.04070
1.949	95.390	15.19790	9.06520	-.71460	1.09210	1.31340	.12320	.00000	.57680	.00000	.12320
1.949	93.400	15.32230	9.25490	-.72390	1.06190	1.32550	.20220	.00000	.57500	.00000	.20220
1.949	91.410	15.38830	9.59110	-.74280	1.07120	1.33290	.27720	.00000	.57290	.00000	.27720
1.949	89.420	15.49290	9.83010	-.74140	1.06410	1.33280	.33730	.00000	.57100	.00000	.33730
1.949	87.430	14.74290	8.29980	-.64850	1.00440	1.27970	-.06690	.00000	.56820	.00000	-.06690
1.949	GRADIENT	-.09827	-.17262	-.00760	-.00915	-.00723	-.04650	.00000	.00183	.00000	-.04650

NSFC 507(744) TITAN III C SRN (MBETP)

(1897046) (23 APR 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0300 54. IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 BREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 270.000

RUN NO. 276/ 0 RM/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPBI	CAP
3.400	109.400	13.04090	6.07720	-4.8110	.67300	1.17470	-5.1370	.00000	.59250	.00000	-.51370
3.400	107.500	13.34020	6.46910	-4.6650	.71120	1.16040	-4.5000	.00000	.59010	.00000	-.43000
3.400	105.500	13.59560	6.84630	-4.5740	.70590	1.20150	-3.2700	.00000	.50770	.00000	-.32700
3.400	103.570	13.84070	7.29400	-5.0000	.70030	1.21560	-2.3760	.00000	.50520	.00000	-.23760
3.400	101.500	14.04370	7.67350	-5.2100	.70230	1.23330	-1.4410	.00000	.56230	.00000	-.14410
3.400	99.590	14.24370	8.04140	-5.3910	.72030	1.23080	-.06190	.00000	.56000	.00000	-.06190
3.400	97.590	14.39690	8.39840	-5.5020	.71560	1.24000	.02320	.00000	.57770	.00000	.02320
3.400	95.600	14.53470	8.71750	-5.6600	.73500	1.26630	.10150	.00000	.57560	.00000	.10150
3.400	93.610	14.66740	8.97940	-5.8470	.75970	1.25040	.18000	.00000	.57400	.00000	.18000
3.400	91.590	14.78080	9.23520	-6.0120	.79230	1.26230	.26240	.00000	.57230	.00000	.26240
3.400	89.720	14.79560	9.48350	-6.0480	.75130	1.26550	.32930	.00000	.57030	.00000	.32930
3.400	89.590	14.20920	8.06390	-5.3310	.72330	1.21920	-.06680	.00000	.57960	.00000	-.06680
3.400	GRADIENT	-.08024	-.17402	.00661	-.00366	-.00401	-.04281	.00000	.00113	.00000	-.04281

RUN NO. 277/ 0 RM/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPBI	CAP
4.959	109.000	13.14200	6.24320	-4.0230	.66410	1.20450	-5.4930	.00000	.59140	.00000	-.54930
4.959	107.700	13.43180	6.55730	-4.3420	.64680	1.21440	-4.2990	.00000	.58980	.00000	-.42990
4.959	105.760	13.80210	6.95950	-4.3300	.63340	1.24730	-3.3150	.00000	.58770	.00000	-.33150
4.959	103.760	13.99660	7.24290	-4.5770	.66730	1.26160	-.23180	.00000	.58600	.00000	-.23180
4.959	101.760	14.23220	7.56020	-4.6100	.65020	1.27060	-1.4210	.00000	.58430	.00000	-.14210
4.959	99.760	14.45050	7.80030	-4.6340	.66410	1.28300	-.06990	.00000	.58230	.00000	-.06990
4.959	97.760	14.67400	8.15180	-4.9030	.69200	1.29070	.01090	.00000	.58120	.00000	.01090
4.959	95.740	14.75820	8.41210	-5.1710	.71460	1.29670	.10350	.00000	.57930	.00000	.10350
4.959	93.770	14.81600	8.56610	-5.4080	.72960	1.30440	.18300	.00000	.57830	.00000	.18300
4.959	91.750	14.92990	8.74910	-5.5060	.71310	1.29740	.27050	.00000	.57730	.00000	.27050
4.959	89.870	14.82620	8.83030	-5.3710	.69100	1.32340	.34650	.00000	.57650	.00000	.34650
4.959	89.760	14.42050	7.86490	-4.7990	.67150	1.27650	-.07000	.00000	.58240	.00000	-.07000
4.959	GRADIENT	-.09049	-.13469	.00722	-.00350	-.00542	-.04394	.00000	.00077	.00000	-.04394



TABULATED SOURCE DATA, NSFC TWT 987

DATE 11 JUN 74

(R97047) (23 APR 74)

NSFC 987 (FAA) TITAN III C SRM (HDETP)

PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

ORIF = .0300 IN ZMRP = 4.6330 IN.
 LREF = .0000 IN. ZMRP = .0000 IN.
 DREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 226/ 0 RM/L = 4.92 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.510	6.94110	-3.33020	-.15130	-.23760	.66140	-.88520	.00000	.71230	.00000	-.00320
.998	127.990	7.16190	-3.22390	-.17720	-.06450	.69070	-.78930	.00000	.70640	.00000	-.78930
.998	125.980	7.46060	-3.14490	-.10590	-.08110	.90360	-.69460	.00000	.70490	.00000	-.69460
.998	123.600	7.76630	-2.91350	.06850	-.18310	.92170	-.59700	.00000	.69890	.00000	-.59700
.998	121.500	8.00640	-2.67290	.02280	-.09860	.94350	-.49760	.00000	.69370	.00000	-.49760
.998	119.570	8.20720	-2.42680	.19000	.30320	.91170	-.43140	.00000	.68430	.00000	-.43140
.998	117.600	8.37750	-1.63310	.16270	.26440	.95270	-.33760	.00000	.67620	.00000	-.33760
.998	115.900	8.53390	-1.24010	.16190	.26440	.96750	-.23940	.00000	.66990	.00000	-.23940
.998	113.610	8.71030	-.63200	.21280	-.07640	.98460	-.13210	.00000	.66360	.00000	-.13210
.998	111.600	8.82150	-.47470	.23190	-.19640	1.00690	-.05730	.00000	.65830	.00000	-.05730
.998	109.720	8.92100	-.16300	.17750	-.23790	1.01190	.03210	.00000	.65300	.00000	-.03210
.998	119.590	9.18730	-2.13690	.15790	-.31350	.89900	-.44420	.00000	.66450	.00000	-.44420
.998	GRADIENT	-.10124	-.17455	-.02114	-.00181	-.80712	-.04622	.00000	.00316	.00000	-.04622

RUN NO. 225/ 0 RM/L = 6.22 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.230	6.08540	-2.71390	-.28490	.17020	.87000	-1.15580	.00000	.69410	.00000	-1.15580
.998	127.390	6.40240	-2.39220	-.30130	.19320	.92420	-1.04990	.00000	.68750	.00000	-1.04990
.998	125.390	6.74890	-2.01600	-.38140	.24350	.96310	-.96720	.00000	.68060	.00000	-.96720
.998	123.390	6.07380	-1.65770	-.44710	.30720	.99470	-.85530	.00000	.67460	.00000	-.85530
.998	121.390	6.41690	-1.21940	-.42970	.35070	1.04040	-.76650	.00000	.66790	.00000	-.76650
.998	119.380	6.70970	-.77380	-.41240	.38680	1.03310	-.67220	.00000	.66160	.00000	-.67220
.998	117.370	6.94580	-.30140	-.40250	.41320	1.08590	-.55260	.00000	.65530	.00000	-.55260
.998	115.390	10.23390	.24420	-.38810	.40040	1.10150	-.45420	.00000	.64950	.00000	-.45420
.998	113.390	10.46440	.76160	-.33300	.29840	1.12790	-.35020	.00000	.64230	.00000	-.35020
.998	111.390	10.66990	1.24650	-.32230	.27350	1.13730	-.23750	.00000	.63670	.00000	-.23750
.998	109.520	10.81900	1.71860	-.33010	.29950	1.14970	-.12840	.00000	.63140	.00000	-.12840
.998	119.360	9.78560	-.70590	-.40430	.43050	1.06270	-.68170	.00000	.66060	.00000	-.68170
.998	GRADIENT	-.14130	-.22800	.00010	-.00632	-.01398	-.09195	.00000	.00319	.00000	-.09195

TABULATED SOURCE DATA, MOPC TWT 567

MOPC 507 (PAA) TITAN 311 C 35M (MNETP)

(R07047) (23 APR 74)

REFERENCE DATA

GREY = .6300 90. IN ZMP = 4.6330 IN.
 LREF = .9000 IN. TROP = .0000 IN.
 DREF = .9000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 224/ 0 RM/L = 0.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.196	129.160	9.93680	-28360	-62070	-43860	.97130	-1.43120	.00000	.64790	.00000	-1.45120
1.196	127.270	10.34570	-56930	-63940	-47130	1.02340	-1.36580	.00000	.64430	.00000	-1.36580
1.196	125.260	10.84990	-97720	-65890	-51330	1.07070	-1.27500	.00000	.64010	.00000	-1.27500
1.196	123.260	11.33120	-1.46640	-69330	-54690	1.10350	-1.19490	.00000	.63450	.00000	-1.19490
1.196	121.270	11.73120	1.89980	-71730	-54810	1.13730	-1.10160	.00000	.62990	.00000	-1.10160
1.196	119.270	12.11270	2.46490	-72050	-57400	1.15810	-1.00520	.00000	.62370	.00000	-1.00520
1.196	117.270	12.48670	2.86100	-73770	-63010	1.19360	-.90790	.00000	.62250	.00000	-.90790
1.196	115.270	12.70440	3.15960	-73000	-63360	1.22330	-.79170	.00000	.62000	.00000	-.79170
1.196	113.270	12.96300	3.48980	-73670	-66400	1.24110	-.67790	.00000	.61750	.00000	-.67790
1.196	111.280	13.25520	3.92900	-74710	-68480	1.27260	-.55810	.00000	.61400	.00000	-.55810
1.196	109.390	13.49390	4.34690	-75290	-71610	1.27850	-.44820	.00000	.61070	.00000	-.44820
1.196	119.270	12.07110	2.49370	-70920	-.8310	1.16010	-1.00480	.00000	.62370	.00000	-1.00480
GRADIENT		-.17879	-.20749	.00647	-.01398	-.01526	-.05043	.00000	.00168	.00000	-.05043

RUN NO. 259/ 0 RM/L = 0.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.962	129.260	9.71400	2.67030	-48390	-47890	.86190	-1.92360	.00000	.61670	.00000	-1.92360
1.962	127.370	10.15420	3.05040	-49700	-53690	.82020	-1.43170	.00000	.61350	.00000	-1.43170
1.962	125.360	10.53570	3.37800	-50910	-59660	.96650	-1.34170	.00000	.61130	.00000	-1.34170
1.962	123.360	11.09630	3.81630	-50970	-66210	.99900	-1.24370	.00000	.60790	.00000	-1.24370
1.962	121.350	11.53090	4.17230	-53100	-70930	1.03110	-1.14520	.00000	.60370	.00000	-1.14520
1.962	119.310	11.98820	4.50170	-55060	-75450	1.06300	-1.04460	.00000	.60390	.00000	-1.04460
1.962	117.340	12.32930	4.91690	-57300	-76170	1.09080	-.93860	.00000	.60100	.00000	-.93860
1.962	115.320	12.66020	5.31360	-58990	-79640	1.12230	-.83150	.00000	.59840	.00000	-.83150
1.962	113.310	13.12240	5.72350	-59370	-81520	1.16020	-.73090	.00000	.59630	.00000	-.73090
1.962	111.320	13.40200	6.15870	-59940	-83990	1.17760	-.61990	.00000	.59330	.00000	-.61990
1.962	109.450	13.68100	6.55430	-59370	-86030	1.19790	-.52320	.00000	.59080	.00000	-.52320
1.962	119.360	11.69350	4.62190	-54240	-72460	1.05340	-1.03240	.00000	.60230	.00000	-1.03240
GRADIENT		-.20144	-.19413	.00649	-.01866	-.01595	-.05061	.00000	.00127	.00000	-.05061



REFERENCE DATA

REP = .0300 IN XMRP = 4.0330 IN.
 LREP = .0000 IN. YMRP = .0000 IN.
 BRN = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

ETA = .000 PHI = 270.000

RUN NO. 279/ 0 RM/L = 0.35 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.480	129.510	0.99000	2.03430	-3.5070	.46140	.03400	-1.50250	.00000	.01150	.00000	-1.58250
3.480	127.620	0.40760	3.17700	-3.0070	.47660	.07260	-1.44050	.00000	.00910	.00000	-1.44050
3.480	125.590	0.99030	3.47040	-3.7700	.51590	.09530	-1.32370	.00000	.00740	.00000	-1.32370
3.480	123.590	10.40010	3.79200	-3.9420	.52050	.03000	-1.19500	.00000	.00340	.00000	-1.19500
3.480	121.590	10.00470	4.12630	-4.0480	.55700	.07520	-1.07700	.00000	.00340	.00000	-1.07700
3.480	119.590	11.30050	4.41170	-4.2000	.57060	1.00250	-.96560	.00000	.00210	.00000	-.96560
3.480	117.580	11.74010	4.74650	-4.4430	.61660	.97230	-.86710	.00000	.00030	.00000	-.86710
3.480	115.540	12.10150	5.03110	-4.5390	.61420	1.06020	-.75010	.00000	.59890	.00000	-.75010
3.480	113.530	12.40000	5.35590	-4.7140	.64700	1.00650	-.65920	.00000	.00000	.00000	-.65920
3.480	111.530	12.81060	5.69020	-4.8200	.66070	1.10320	-.56020	.00000	.59530	.00000	-.56020
3.480	109.630	13.09460	6.01720	-4.9200	.66430	1.12190	-.46660	.00000	.59330	.00000	-.46660
3.480	119.570	11.29150	4.41770	-4.42100	.56900	.97870	-.97400	.00000	.60200	.00000	-.97400
GRADIENT		-.20674	-.15770	.00744	-.01140	-.01447	-.05497	.00000	.00000	.00000	-.05497

RUN NO. 278/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
4.959	129.670	0.92910	3.12370	-.29440	.50190	.03590	-1.67720	.00000	.60720	.00000	-1.67720
4.959	127.700	0.43770	3.45270	-.29810	.53070	.07370	-1.55610	.00000	.60520	.00000	-1.55610
4.959	125.760	0.91760	3.73190	-.32920	.51500	.03350	-1.40430	.00000	.60390	.00000	-1.40430
4.959	123.750	10.42910	3.99720	-.33210	.54390	.06360	-1.26310	.00000	.60300	.00000	-1.26310
4.959	121.730	10.94130	4.29480	-.35000	.59700	1.02510	-1.13160	.00000	.60180	.00000	-1.13160
4.959	119.740	11.55410	4.63210	-.36720	.57170	1.06000	-1.01030	.00000	.60060	.00000	-1.01030
4.959	117.720	11.04950	4.79250	-.30200	.58320	1.07760	-.87110	.00000	.60030	.00000	-.87110
4.959	115.710	12.21400	5.10940	-.30760	.62170	1.07900	-.76750	.00000	.59850	.00000	-.76750
4.959	113.730	12.64270	5.39350	-.40000	.65090	1.11790	-.65300	.00000	.59750	.00000	-.65300
4.959	111.710	13.00040	5.70720	-.40910	.65700	1.14180	-.56370	.00000	.59590	.00000	-.56370
4.959	109.630	13.26340	5.99550	-.41300	.70170	1.16190	-.43760	.00000	.59430	.00000	-.43760
4.959	119.740	11.30010	4.94710	-.33340	.60970	1.02330	-1.00000	.00000	.60060	.00000	-1.00000
GRADIENT		-.22130	-.14145	.00644	-.00936	-.01612	-.06180	.00000	.00000	.00000	-.06180

NSFC 567 (744) TITAN III C SRM (MSTTP)

(097040) (23 APR 74)

REFERENCE DATA

BREF = .0300 IN XMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 91/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAF
1.199	147.970	6.17340	-2.23500	-.95230	-.66530	.74370	-2.00000	.24000	.69730	-.24000	-2.24970
1.199	145.940	6.62420	-1.99900	-1.04300	-.62160	.60970	-1.96500	.26910	.69850	-.26910	-2.23490
1.199	143.830	7.32120	-1.74230	-1.19640	-.44980	.67090	-1.91100	.27090	.69080	-.27090	-2.19000
1.199	141.600	8.16430	-1.47350	-1.27300	-.20540	.92140	-1.86910	.30310	.67440	-.30310	-2.17420
1.199	139.500	8.81990	-1.11900	-1.29190	-.07440	.97120	-1.82170	.32610	.66750	-.32610	-2.14760
1.199	137.440	9.44980	-.70030	-1.29020	.38280	1.02900	-1.77610	.36070	.66090	-.36070	-2.13690
1.199	135.340	9.99620	-.42300	-1.22600	.58420	1.06200	-1.69730	.39630	.65680	-.39630	-2.09360
1.199	133.250	10.42900	-.24640	-1.14930	.64400	1.09970	-1.59500	.32670	.65450	-.32670	-1.92260
1.199	131.160	10.85300	-.21030	-1.11370	.70240	1.12340	-1.49640	.31320	.65400	-.31320	-1.79970
1.199	129.090	11.13770	-.31200	-1.06890	.72130	1.14080	-1.39060	.30100	.65500	-.30100	-1.66170
1.199	127.120	11.34750	-.25900	-1.00210	.65170	1.16050	-1.27640	.29310	.65440	-.29310	-1.57150
1.199	127.440	9.43020	-.75450	-1.28100	.40440	1.01630	-1.76330	.34060	.66160	-.34060	-2.10390
GRADIENT		-.25517	-.10379	-.00095	-.07674	-.02003	-.05419	-.00230	.00206	.00230	-.03190

RUN NO. 92/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	149.030	4.48050	.57660	-.23610	-.03770	.40690	-2.18430	.05120	.63510	-.05120	-2.23560
3.400	147.060	4.94100	.74690	-.26430	.02600	.43440	-2.16310	.04320	.63230	-.04320	-2.20830
3.400	144.980	5.42090	.85090	-.27610	.06320	.49790	-2.10410	.03160	.63140	-.03160	-2.13590
3.400	142.900	5.94220	1.04710	-.30650	.12320	.53720	-.08000	.01030	.62920	-.01030	-2.09930
3.400	140.850	6.42330	1.15920	-.32710	.16730	.58330	-2.01150	.00640	.62860	-.00640	-2.01790
3.400	138.750	6.94240	1.31060	-.35470	.21430	.63310	-1.94930	-.00440	.62740	.00440	-1.94480
3.400	136.670	7.43750	1.48030	-.36350	.27630	.67310	-1.87560	-.01020	.62630	.01020	-1.85740
3.400	134.600	7.93190	1.68230	-.37080	.31190	.72740	-1.81460	-.03330	.62480	.03330	-1.78070
3.400	132.540	8.42650	1.89640	-.39350	.32210	.76810	-1.69740	-.04620	.62360	.04620	-1.65110
3.400	130.450	8.92210	2.05940	-.39630	.40590	.81080	-1.56960	-.06340	.62230	.06340	-1.52820
3.400	128.400	9.43700	2.31300	-.42400	.45160	.84870	-1.48030	-.08120	.62040	.08120	-1.39900
3.400	126.750	6.90590	1.25780	-.34080	.20740	.61080	-1.94260	-.00440	.62840	-.00440	-1.93820
GRADIENT		-.24106	-.08139	.00876	-.02291	-.02197	-.03387	.00637	.00063	-.00637	-.04023



PARAMETRIC DATA

BETA = .000 PHI = 270.000

REFERENCE DATA

0827 = .0300 90. IN YIMP = 4.0330 IN.
 0827 = .0000 IN. YIMP = .0000 IN.
 0827 = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

RUN NO. 00/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPBI	CAF
.998	109.320	.09980	-1.22043	.1950	.24290	.12950	-1.21870	-.04640	.07220	.04640	-1.17230
.998	107.600	.09950	-1.27630	.1960	.23300	.13040	-1.29140	-.02960	.02340	.02960	-1.26560
.998	105.990	1.14670	-1.32810	.27040	-.00440	.16740	-1.37170	.00640	.79760	-.00440	-1.37020
.998	103.990	1.35620	-1.41300	-.00000	-.34660	.23070	-1.44400	.01720	.76330	-.01720	-1.46130
.998	101.250	1.65670	-1.53660	-.79210	-.43000	.26250	-1.49900	.03000	.76070	-.03000	-1.53710
.998	100.470	1.93960	-1.70170	-.89120	-.52970	.30490	-1.51970	.04870	.76140	-.04870	-1.56440
.998	100.470	2.36330	-1.84330	-.84900	-.65190	.32750	-1.46230	.06210	.75030	-.06210	-1.52450
.998	100.370	2.80950	-1.96196	-.13150	-.54700	.33170	-1.41790	.06410	.73990	-.06410	-1.46830
.998	100.320	3.22000	-2.07320	-.07770	-.42040	.34660	-1.36940	.07890	.73500	-.07890	-1.42720
.998	101.270	3.59100	-2.21110	-.08770	-.57360	.42660	-1.34640	.08000	.72940	-.08000	-1.41420
.998	100.470	4.00000	-2.29380	-.47210	-.68310	.48760	-1.32710	.08700	.72400	-.08700	-1.41420
.998	100.470	1.93950	-1.70910	-.84010	-.45070	.28260	-1.50940	.04940	.76190	-.04940	-1.55890
GRADIENT		-.16523	.05706	-.00100	.04457	-.01696	.00319	-.00636	.00632	.00636	.00957

RUN NO. 00/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPBI	CAF
.902	109.420	.92900	-.01970	.22110	.29450	.09790	-1.42380	.01250	.76300	-.01250	-1.43640
.902	107.470	1.14730	-.06360	.20950	.30650	.11830	-1.49320	.02970	.76000	-.02970	-1.52300
.902	105.430	1.42900	-1.12340	.17600	.21660	.15900	-1.47820	.07350	.75130	-.07350	-1.53140
.902	103.370	1.70160	-1.30110	.13420	.11560	.19720	-1.49510	.09670	.74830	-.09670	-1.58100
.902	101.250	2.00000	-1.31600	.95630	.44050	.18190	-1.60840	.10190	.72720	-.10190	-1.79030
.902	100.100	2.40000	-1.67040	.64080	.36540	.24790	-1.60390	.10930	.73740	-.10930	-1.79330
.902	100.090	2.83320	-1.92130	.63270	.36670	.29460	-1.66670	.11430	.73670	-.11430	-1.78110
.902	100.090	3.34410	-2.19720	.70900	.38090	.33500	-1.64900	.11900	.73310	-.11900	-1.76800
.902	100.000	3.98110	-2.36360	1.06540	.37060	.37910	-1.60330	.14630	.72760	-.14630	-1.75170
.902	100.750	4.51390	-2.61050	1.10700	.40390	.42190	-1.60010	.17490	.72470	-.17490	-1.77500
.902	100.730	4.91730	-2.84940	.73250	-.11610	.48950	-1.55260	.16230	.72746	-.16230	-1.71500
.902	100.170	2.49170	-1.68960	.61410	.38320	.23050	-1.69620	.11060	.73730	-.11060	-1.80690
GRADIENT		-.19649	.10162	-.04061	.00217	-.01843	.00761	-.00703	.00179	.00703	.01464

WSPC 587(744) TITAN III C SRM (MRETP)

(197049) (23 APR 74)

REFERENCE DATA

SREF = .6368 80. IN XIMP = 4.6330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 SREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0674

PARAMETRIC DATA

DELTA = .000 PHI = 270.000

RUN NO. 90/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	169.290	1.12140	-1.28430	-2.9690	-12.600	-19240	-1.94970	.10910	.79420	-1.10910	-2.13890
1.200	167.300	1.42770	-1.48730	-4.1000	-0.1200	-24510	-2.00640	.21200	.78330	-2.21200	-2.21840
1.200	165.220	1.80640	-1.73010	-4.9740	-0.7000	-29150	-2.03920	.22780	.77280	-2.27780	-2.26700
1.200	163.060	2.23830	-1.89450	-3.0540	-0.5740	-34090	-2.03010	.24280	.75860	-2.24280	-2.27300
1.200	160.970	2.67450	-2.15910	-3.9370	-0.7990	-40170	-2.08170	.24990	.75360	-2.24990	-2.33160
1.200	159.840	3.15600	-2.36850	-4.4170	-2.0150	-49240	-2.09000	.24290	.74640	-2.24290	-2.32300
1.200	158.710	3.68250	-2.51300	-4.9200	-2.7370	-50550	-2.06660	.25060	.73760	-2.25060	-2.33750
1.200	154.370	4.29800	-2.60910	-5.5100	-4.2430	-57390	-2.06210	.26560	.72900	-2.26000	-2.32500
1.200	152.430	4.88160	-2.56680	-6.8300	-5.6450	-63190	-2.04210	.28160	.71830	-2.26560	-2.30780
1.200	150.290	5.50420	-2.47460	-8.9360	-6.9930	-69480	-2.02060	.28160	.70940	-2.26160	-2.30820
1.200	148.230	6.16570	-2.24300	-9.6510	-7.4920	-76320	-1.99600	.29460	.69760	-2.29460	-2.29060
1.200	156.830	3.16200	-2.40900	-4.93910	-2.0030	-45350	-2.05190	.21720	.74790	-2.21720	-2.26910
GRADIENT		-.23931	.09633	-.02712	.04183	-.02682	.00137	-.00409	.00436	.00409	.00366

RUN NO. 114/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMN	CLMN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.958	169.300	-.96000	-1.09690	-.09200	-.11450	-.13750	-1.93040	.04920	.79600	-.04920	-1.97960
1.958	167.320	1.30630	-1.08600	-.12420	-.04530	-.19550	-1.95870	.06520	.75670	-.08520	-2.02390
1.958	165.240	1.69970	-1.04800	-.19460	-.05630	-.23960	-1.99180	.08330	.72960	-.08330	-2.07310
1.958	163.110	2.13960	-1.03690	-.23370	-.16240	-.26900	-2.02560	.10210	.71260	-.10210	-2.12780
1.958	161.010	2.59550	-.97050	-.34150	-.35040	-.31470	-2.05910	.11360	.69880	-.11360	-2.17270
1.958	158.880	3.03780	-.86600	-.40620	-.45070	-.35660	-2.07210	.12440	.68730	-.12440	-2.19660
1.958	156.790	3.53070	-.81590	-.46150	-.47850	-.37870	-2.07990	.12680	.67360	-.12680	-2.20680
1.958	154.680	4.03740	-.48620	-.51410	-.50190	-.43170	-2.09400	.12970	.66810	-.12970	-2.22370
1.958	152.520	4.63190	-.29980	-.57350	-.47470	-.47800	-2.11430	.13140	.65970	-.13140	-2.24570
1.958	150.410	5.13370	-.08200	-.57780	-.31190	-.51530	-2.09350	.11380	.65350	-.11380	-2.20930
1.958	148.300	5.66260	-.09810	-.57860	-.14320	-.55770	-2.09060	.08270	.64930	-.08270	-2.17340
1.958	156.910	3.03050	-.76380	-.39120	-.43050	-.34720	-2.05930	.12150	.68340	-.12150	-2.17990
GRADIENT		-.22622	-.05934	.02622	-.02059	-.01694	.00806	-.00247	.00636	.00247	.01055



DATE 11 JUL 76
 TABULATED SOURCE DATA, MSFC TUT 367
 MSFC 907(FA4) TITAN III C SRM (MUTP)
 (897049) (23 APR 74)
 PAGE 03

REFERENCE DATA

REF = .0360 90. IN YMRP = 4.8330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. YMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .008 PHI = 270.000

RUN NO. 51/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	169.530	.60720	-.34670	-.05330	-.03140	.10700	-1.93440	.06340	.71440	-.06340	-1.99790
3.480	167.590	.93270	-.30990	-.02960	.00210	.12500	-1.90960	.06470	.69260	-.06470	-2.05240
3.480	165.540	1.23780	-.26260	-.03130	-.00200	.14890	-2.03270	.06930	.67790	-.06930	-2.10200
3.480	163.490	1.56200	-.24330	-.03510	-.03690	.17090	-2.07140	.07190	.67140	-.07190	-2.14290
3.480	161.400	1.90440	-.16760	-.07130	-.13640	.20990	-2.12400	.06810	.66260	-.06810	-2.19290
3.480	159.300	2.23670	-.04340	-.11370	-.24380	.23160	-2.17260	.06350	.65390	-.06350	-2.23610
3.480	157.320	2.67530	.03460	-.14590	-.22190	.24510	-2.21330	.05020	.64990	-.05020	-2.26360
3.480	155.260	3.04320	.14470	-.15430	-.19750	.28360	-2.22200	.03290	.64550	-.03290	-2.25300
3.480	153.210	3.47360	.24500	-.16170	-.09060	.30360	-2.22400	.01270	.64250	-.01270	-2.23760
3.480	151.120	3.91730	.40790	-.19700	-.03040	.34270	-2.20910	.00360	.63630	-.00360	-2.21300
3.480	149.140	4.37260	.57330	-.22400	-.01740	.39000	-2.19100	-.00960	.63480	-.00960	-2.17120
3.480	159.360	2.25600	-.08300	-.11960	-.23440	.20860	-2.16020	.06500	.65820	-.06500	-2.24550
GRADIENT		-.10022	-.04433	.01039	.00288	-.01335	.01371	.00392	.00346	-.00392	-.00979

RUN NO. 50/ 0 RM/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	169.630	.47950	-.21710	-.04760	-.01940	.09740	-1.94450	.02020	.70800	-.02020	-1.96470
4.959	167.710	.70850	-.23470	-.06040	-.01300	.09730	-2.01660	.02250	.69710	-.02250	-2.02910
4.959	165.670	.99210	-.22960	-.04570	.00970	.12900	-2.06280	.02350	.68060	-.02350	-2.08640
4.959	163.600	1.21740	-.20800	-.07220	-.03150	.15900	-2.13350	.02550	.67310	-.02550	-2.15900
4.959	161.650	1.55820	-.12660	-.08420	-.12140	.18210	-2.19850	.02530	.66100	-.02530	-2.22300
4.959	159.630	1.90020	-.07330	-.06920	-.12310	.19040	-2.29090	.01970	.65640	-.01970	-2.31070
4.959	157.580	2.26700	.05380	-.11160	-.15390	.24330	-2.34060	.00610	.64890	-.00610	-2.34900
4.959	155.570	2.66230	.16770	-.14260	-.07690	.27000	-2.37730	.00460	.64350	-.00460	-2.37260
4.959	153.570	3.02910	.35820	-.17330	-.06480	.30220	-2.33610	-.01600	.63690	.01600	-2.32010
4.959	151.520	3.45490	.51760	-.16920	-.02890	.30740	-2.31300	-.02900	.63230	.02900	-2.26320
4.959	149.570	3.96620	.66100	-.19100	.03140	.35970	-2.29800	-.04140	.63040	.04140	-2.25630
4.959	159.630	1.92800	-.05900	-.06990	-.13640	.19160	-2.22260	.01320	.65340	-.01320	-2.29590
GRADIENT		-.17208	-.04594	.00805	.00094	-.01339	.01996	.00322	.00366	-.00322	-.01664

TABULATED SOURCE DATA, WSPC TWT 587

(23 APR 74)

WSPC 907 (F40) TITAN III C 38M (M021P)

PARAMETRIC DATA

BETA = .000 PMI = 270.000

REFERENCE DATA

WSPZ = .0300 30. IN XMRP = 4.6330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
ZREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 87/ 0 RM/L = 4.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTVM	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	190.010	-.72400	1.09420	-.41310	-.07000	-.09270	-.86620	-.09340	.84260	.05340	-.81270
.000	189.990	-.95000	.96410	.26390	-.00730	-.08710	-.85760	-.07240	.07440	.07240	-.78520
.000	189.090	-.40770	.80090	.16410	-.04410	-.07040	-.85080	-.00070	.90010	.08070	-.77010
.000	184.040	-.25170	.57240	.09490	.00430	-.06820	-.87510	-.08390	.93930	.08390	-.79110
.000	182.030	-.15410	.38400	.06520	.00960	-.05480	-.91470	-.08300	.96680	.08300	-.83160
.000	180.000	.00410	.11500	.03850	.10230	-.73110	-.93770	-.08240	-.8.86090	.08240	-.89530
.000	177.980	.10040	-.20850	-.00810	.14170	-.01510	-.98060	-.07860	.91160	.07860	-.91000
.000	175.960	.19820	-.48170	-.02610	.20830	.02680	-.1.02720	-.07490	.95900	.07490	-.95230
.000	173.930	.32330	-.70400	.00690	.25900	.03990	-.1.09340	-.06380	.92710	.06380	-.1.02960
.000	171.910	.46890	-.97640	.07270	.26080	.00000	-.1.12740	-.06180	.91500	.06180	-.1.08960
.000	169.980	.62220	-.1.18700	.09590	.30430	.09380	-.1.17730	-.05200	.88180	.05200	-.1.12920
.000	160.000	.00410	.11570	.03800	.12360	-.03890	-.94000	-.08430	-.2.83980	.08430	-.89360
.000	GRADIENT	-.06471	.11945	.01414	-.02084	-.00974	.01689	-.00036	-.00185	.00036	.01745

RUN NO. 86/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTVM	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	196.000	-.77650	.73010	.48940	-.01360	-.09600	-.1.00990	-.00970	.77050	.00970	-.1.00020
.000	188.140	-.56560	.63710	.27560	-.00430	-.07710	-.99320	-.03890	.79400	.03890	-.95420
.000	186.120	-.39810	.55500	.16230	-.05630	-.06610	-.99100	-.06120	.82790	.06120	-.92370
.000	184.070	-.23840	.52210	.10270	-.02470	-.04330	-.99650	-.07180	.92860	.07180	-.92470
.000	182.060	-.08000	.40700	.06360	-.03990	-.01300	-.1.03650	-.07430	1.23120	.07430	-.96220
.000	180.000	.06310	.18630	.04230	-.01360	.00990	-.1.08120	-.07130	.27420	.07130	-.1.00990
.000	177.990	.20140	-.04880	-.00300	.04430	.03070	-.1.12610	-.06060	.68220	.06060	-.1.08940
.000	175.930	.29620	-.23240	-.02050	.13170	.04610	-.1.19840	-.04270	.75080	.04270	-.1.15370
.000	173.890	.44130	-.41720	.00100	.12980	.07620	-.1.24960	-.03070	.77120	.03070	-.1.21890
.000	171.830	.60880	-.66260	.09520	.19050	.06930	-.1.31470	-.02160	.77330	.02160	-.1.29390
.000	169.830	.83330	-.81780	.18100	.28080	.08720	-.1.38220	-.00060	.76210	.00060	-.1.38430
.000	179.990	.08680	-.17440	.03680	-.01110	-.00380	-.1.09130	-.07000	.39660	.07000	-.1.02130
.000	GRADIENT	-.07809	.07978	.01312	-.01580	-.00964	.01985	-.00125	.00541	.00125	.02110



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 987

PAGE 87

NSFC 987(744) TITAN 311 C SRN (MRETP)

(R07098) (23 APR 74)

REFERENCE DATA

REF = .6360 3d. IN XMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 REF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 270.003

RUN NO. 65/ 1 RN/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	190.210	-96800	1.22950	.50650	.14380	-.10950	-1.53870	.10040	.61220	-.10040	-1.63810
1.198	188.250	-75120	1.01960	.34950	-.04320	-.08580	-1.52130	.08510	.62350	-.08510	-1.60840
1.198	186.200	-54280	.82080	.21140	-.13330	-.07330	-1.53980	.09550	.64200	-.08550	-1.62540
1.198	184.140	-33130	.51470	.11990	-.07330	-.04820	-1.55860	.09060	.63690	-.09060	-1.64930
1.198	182.070	-13760	.29220	.04970	-.07330	-.02350	-1.58000	.08680	.62010	-.08680	-1.66880
1.198	179.990	.04630	.13920	-.01720	.00330	-.00810	-1.61380	.09320	.58870	-.09320	-1.70710
1.198	177.930	.23410	-.13800	-.05600	.02820	.03870	-1.67050	.10370	.72810	-.10370	-1.77420
1.198	175.870	.39310	-.45060	-.08840	.11950	.06890	-1.73660	.11920	.79380	-.11920	-1.85190
1.198	173.800	.59340	-.76870	-.12790	.19470	.10100	-1.78900	.12660	.81300	-.12660	-1.91870
1.198	171.730	.84510	-.97370	-.21630	.34800	.14890	-1.86650	.15470	.79730	-.15470	-2.02130
1.198	169.720	1.14540	-1.18390	-.28450	.59440	.19340	-1.94250	.19160	.76230	-.19160	-2.13410
1.198	179.990	.08430	.13780	-.02680	-.00630	.00680	-1.61070	.09290	.44450	-.09290	-1.70370
GRADIENT		-.09815	.11998	.03417	-.00960	-.01407	.02029	-.00406	.00272	.00406	-.02437

RUN NO. 115/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.937	190.210	-96120	.88030	.42230	.23110	-.09010	-1.63710	.05360	.73930	-.05360	-1.69080
1.937	188.250	-70450	.66100	.28300	.02350	-.07220	-1.61150	.03840	.77020	-.03840	-1.64990
1.937	186.190	-48940	.55510	.19880	-.01840	-.05800	-1.61450	.02780	.79500	-.02780	-1.64230
1.937	184.120	-32040	.43950	.12200	-.00930	-.04380	-1.64000	.01810	.82510	-.01810	-1.65810
1.937	182.050	-14680	.24980	.06020	-.00240	-.02030	-1.67680	.00970	.86680	-.00970	-1.68660
1.937	179.990	.01150	.00890	.02830	.05810	.00580	-1.70240	.00970	.93380	-.00970	-1.71220
1.937	177.930	.17040	-.23170	.00190	.07880	.01770	-1.75490	.00920	.82360	-.00920	-1.74200
1.937	175.870	.29780	-.52840	-.00720	.11110	.05830	-1.78180	.00790	.87610	-.00790	-1.78880
1.937	173.800	.47370	-.82360	-.02480	.15110	.09300	-1.83870	.01690	.87150	-.01690	-1.85370
1.937	171.720	.70760	-1.05280	-.05410	.19300	.13620	-1.90030	.02800	.83980	-.02800	-1.92840
1.937	169.730	.98870	-1.19560	-.07630	.30000	.18050	-1.94390	.03980	.80440	-.03980	-1.98370
1.937	179.990	.02890	-.01860	.02910	.04460	.00910	-1.68610	.01290	.73750	-.01290	-1.67910
GRADIENT		-.08814	.10078	.02122	-.00323	-.01274	.01647	-.00072	-.00394	-.00072	-.01973

NSFC 507 (FA4) TITAN III C SRM (MNETP)

(R07090) (23 APR 74)

REFERENCE DATA

DEPTH = 0.608 IN ZMRP = 4.838 IN.
 LNEP = 0.008 IN. YMRP = 0.000 IN.
 DEEP = 0.008 IN. ZMRP = 0.008 IN.
 SCALE = 0.074

PARAMETRIC DATA

BETA = .000 PHI = 270.000

RUN NO. 49/ 0 RM/L = 6.30 GRADIENT INTERVAL = -9.00/ 5.08

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CJB	KCP/L	CPB1	CAF
3.400	190.100	-0.70990	.24590	.22040	.06440	-.04440	-1.69730	.09920	.62190	-.05920	-1.74080
3.400	188.290	-0.50970	.33330	.17060	.03160	-.05480	-1.69510	.09940	.72930	-.05340	-1.74060
3.400	186.220	-0.40930	.33110	.11460	-.01960	-.05740	-1.69280	.04850	.79390	-.04890	-1.73140
3.400	184.200	-0.31080	.24330	.07800	-.08030	-.01400	-1.68870	.04090	.76600	-.04090	-1.72970
3.400	182.280	-0.17310	.21940	.04720	-.05790	-.01320	-1.71900	.03890	.60890	-.03890	-1.75870
3.400	180.150	-0.07260	.10040	.02990	-.05390	-.06930	-1.73940	.03790	.62690	-.03790	-1.77730
3.400	178.100	-0.03990	-.06360	.00710	-.04000	-.01490	-1.76570	.03830	.65340	-.03830	-1.80410
3.400	176.100	.16700	-.16200	.00700	.03530	.02680	-1.80410	.04120	.77430	-.04120	-1.84530
3.400	174.090	.26670	-.27300	.00690	.04950	.05050	-1.84360	.04850	.78100	-.04850	-1.89010
3.400	172.030	.47230	-.36290	.00280	.08770	.06180	-1.89310	.05340	.74870	-.05340	-1.93660
3.400	170.070	.69790	-.34450	-.03350	.03240	.08250	-1.92640	.05980	.71400	-.05980	-1.98820
3.400	168.150	-.07240	.10050	.03020	-.04100	-.01200	-1.74410	.03730	.62710	-.03730	-1.78190
GRADIENT		-.06619	.63933	.01116	-.00163	-.00864	.01237	.00004	-.00154	-.00004	-.01233

RUN NO. 49/ 0 RM/L = 4.96 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	K' / L	CPB1	CAF
4.959	190.090	-0.61190	.36790	.15980	-.02770	-.03310	-1.63320	.01900	.72760	-.01900	-1.65220
4.959	188.180	-0.50160	.36110	.11390	-.04570	-.01190	-1.62490	.01770	.74290	-.01770	-1.64260
4.959	186.180	-0.39160	.30560	.07180	-.10460	-.00730	-1.62770	.01690	.77600	-.01690	-1.64470
4.959	184.170	-0.33410	.29190	.07280	-.07470	-.02620	-1.65210	.01590	.76210	-.01590	-1.65810
4.959	182.160	-.22870	.25280	.00210	-.09760	-.08570	-1.67810	.01470	.79260	-.01470	-1.69290
4.959	180.150	-0.10890	.16270	.04440	-.01560	-.03330	-1.70950	.01470	.84110	-.01470	-1.72020
4.959	178.140	-.00100	-.00080	-.02390	-.02190	-.00200	-1.73460	.01520	.84110	-.01520	-1.74980
4.959	176.130	.08620	-.07900	-.00840	.00000	-.01320	-1.77680	.01490	.76760	-.01490	-1.79180
4.959	174.140	.17030	-.12760	-.00810	.01820	.04320	-1.79130	.01470	.74630	-.01470	-1.80600
4.959	172.110	.31150	-.20470	.02170	.05800	.04860	-1.84300	.01970	.73630	-.01970	-1.85800
4.959	170.170	.51060	-.16790	-.02100	.04070	.07470	-1.88060	.01650	.69310	-.01650	-1.89710
4.959	168.150	-.17060	.16870	-.01110	-.09090	-.01400	-1.69470	.01490	.79140	-.01490	-1.79970
GRADIENT		-.05278	.03407	.00642	-.00649	-.00437	.01321	.00013	.00240	-.00013	-.01308



TABLED SOURCE DATA, NSFC TWT 567

(R97051) (23 APR 74)

NSFC 507(FAA) TITAN III C SRM (MBETP)

PARAMETRIC DATA

BETA = .000 PHI = 247.308

REFERENCE DATA

*REF = .0300 30. IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 198/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.199	-10.140	-1.09030	-1.10230	.00760	.7850	.02030	1.16430	.23020	.50830	-.23020	.95810
1.199	-8.210	-.85990	-.83190	.06040	.67340	.01000	1.17370	.21960	.52850	-.21960	.95410
1.199	-6.180	-.66030	-.48710	.01490	.04930	.01650	1.16900	.20730	.56200	-.20730	.96180
1.199	-4.120	-.50250	-.21440	-.04390	.01060	.01290	1.19710	.18880	.59750	-.18880	.96830
1.199	-2.070	-.31670	.04740	-.08160	.04390	.02330	1.19200	.17590	.67040	-.17590	.97720
1.199	-.090	-.19220	.29960	-.10170	.04290	.02880	1.14790	.17600	.89750	-.17600	.97190
1.199	2.030	.02320	.62630	-.12820	.03130	.05370	1.16000	.19900	-.2.75710	-.18900	.97190
1.199	4.070	.19110	.95970	-.19220	-.05900	.08640	1.19010	.21210	-.1.4850	-.21210	.97790
1.199	6.100	.29590	1.36590	-.19790	-.09950	.08780	1.21250	.22760	.08740	-.22760	.98490
1.199	8.160	.46170	1.83400	-.17680	-.11780	.12940	1.25190	.23610	.14670	-.23610	1.01580
1.199	10.140	.64640	2.30660	-.19740	-.19960	.17350	1.26970	.25320	-.19990	-.25320	1.01640
1.199	GRADIENT	-.010	-.14220	-.10170	.02690	.03350	1.14410	.16870	.90270	-.16870	.97330
		.00043	.14224	-.01286	-.00950	.00665	.00361	.00293	-.24069	-.00293	.00087

RUN NO. 21/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.480	-10.250	-.99770	-1.61250	.19050	-.16040	-.01850	.75490	.06980	.44690	-.06980	.68300
3.480	-8.200	-.74050	-1.22770	.15890	-.10920	-.02090	.74600	.06480	.44160	-.06480	.68140
3.480	-6.240	-.51910	-.97020	.10790	-.06560	-.00660	.72940	.06000	.43930	-.06000	.68640
3.480	-4.200	-.35670	-.63600	.06390	-.01630	.00370	.71500	.05290	.43210	-.05290	.68210
3.480	-2.180	-.19413	-.24090	.01870	-.01790	.01270	.70690	.04630	.43360	-.04630	.65950
3.480	-.130	.00270	.04240	-.02750	-.01000	.00510	.70430	.04400	-.1.18180	-.04400	.68020
3.480	1.090	.19690	.38140	-.04940	-.02130	.02490	.73640	.04600	.34700	-.04600	.69030
3.480	3.130	.32740	.72990	-.07730	-.02390	.04230	.75780	.05240	.36940	-.05240	.70330
3.480	5.150	.53960	1.09310	-.09260	-.03160	.07340	.79810	.06060	.39220	-.06060	.73550
3.480	6.310	.76590	1.42190	-.11490	-.06470	.06610	.72410	.06720	.41650	-.06720	.75690
3.480	9.980	1.04790	1.78670	-.12260	-.09390	.11200	.47300	.06960	.43560	-.06960	.77780
3.480	GRADIENT	-.130	.04320	-.02600	-.02470	.01425	.72400	.04410	-.1.01270	-.04410	.68020
		.08071	.19982	-.01724	-.00271	.00449	.00160	-.00016	-.01172	-.00016	.00391

NUFC 307 (FA4) TITAN 111 C SON (MDETP)

(R07092) (23 APR 74)

REFERENCE DATA

SREF = .6308 20. IN ZMRP = 4.6330 IN.
 LREF = .9008 IN. YMRP = .0000 IN.
 BREF = .9008 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 247.500

RUN NO. 199/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	10.600	.64700	2.27340	-.18050	-.21390	.16340	1.26680	.25090	.20730	-.25090	1.01760
1.197	12.650	.06210	2.73740	-.21200	-.24010	.20300	1.27940	.26300	.24960	-.26300	1.01630
1.197	14.700	1.13440	3.22990	-.25800	-.25760	.25600	1.26790	.26760	.29110	-.26760	1.00030
1.197	16.810	1.45950	3.80510	-.33840	-.22170	.31940	1.25550	.26120	.32150	-.26120	.97420
1.197	18.880	1.84390	4.46030	-.46030	-.19570	.37180	1.22900	.29000	.34530	-.29000	.93690
1.197	21.020	2.28890	5.17870	-.59430	-.05250	.43090	1.21810	.30310	.36260	-.30310	.91500
1.197	23.150	2.76770	5.98340	-.73540	.01170	.47950	1.19810	.31760	.37790	-.31760	.88030
1.197	25.310	3.26360	6.92200	-.85970	.11420	.53950	1.16760	.31650	.36870	-.31650	.84900
1.197	27.480	3.99310	7.87950	-.99130	.16760	.59610	1.13760	.32350	.40190	-.32350	.81400
1.197	29.620	4.88190	8.85920	-1.02210	.33390	.64830	1.11450	.34190	.41200	-.34190	.77250
1.197	31.650	5.95030	9.86740	-1.12360	.39960	.71390	1.10290	.35660	.42230	-.35660	.74610
1.197	21.030	2.30450	5.22160	-.60340	-.06950	.41620	1.19810	.29270	.36470	-.29270	.90340
GRADIENT		.22455	.35919	-.04796	.03216	.02620	-.00899	.00460	.00954	-.00460	-.01379

RUN NO. 20/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	10.500	1.03430	1.80400	-.11570	-.05400	.10370	.86970	.06940	.43070	-.06940	.79630
3.400	12.470	1.32960	2.17810	-.13690	-.05630	.12810	.86930	.07050	.44410	-.07050	.81900
3.400	14.350	1.63260	2.54400	-.16040	-.04550	.15400	.91230	.06880	.45660	-.06880	.84340
3.400	16.390	1.98800	2.92000	-.21900	-.04940	.17760	.94250	.07010	.46560	-.07010	.87240
3.400	18.640	2.38370	3.28310	-.28160	-.04340	.20840	.96890	.06970	.47970	-.06970	.89910
3.400	20.890	2.72760	3.63810	-.34450	-.04390	.22970	.99450	.06540	.48270	-.06540	.92900
3.400	22.780	3.14110	4.01360	-.41180	.00590	.28120	1.03820	.06060	.48990	-.06060	.97560
3.400	24.620	3.53000	4.37300	-.48700	.02630	.31780	1.07160	.05570	.49470	-.05570	1.01590
3.400	26.880	3.97090	4.79790	-.54910	.03430	.36170	1.11360	.04720	.49800	-.04720	1.06630
3.400	28.950	4.37040	5.20380	-.61190	.03970	.41350	1.15090	.04160	.50070	-.04160	1.10930
3.400	30.930	4.81240	5.63380	-.68160	.02630	.44890	1.17940	.02600	.50330	-.02600	1.15340
3.400	20.690	2.71530	3.61350	-.35650	-.03310	.25460	.99980	.06580	.48900	-.06580	.93400
GRADIENT		.18957	.13460	-.02884	.00326	.01729	-.01371	-.00193	.00349	-.00193	-.01763



NSFC 507 (FA4) TITAN III C SRN (MNETP)

(R97034) (23 APR 74)

PARAMETRIC DATA

REF = .0300 50. IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 RREF = .9000 IN. ZIMP = .0000 IN.
 SCALE = .0074

RUN NO. 192/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

BETA = .000 PHI = 247.500

MACH	ALPHA	CMW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.194	50.540	9.99400	14.47400	-1.97870	.37600	1.07000	.97140	.00000	.46820	.00000	.97140
1.194	52.620	10.37010	14.59200	-2.03250	.42100	1.10430	.92850	.00000	.47340	.00000	.92850
1.194	54.620	10.77400	14.59330	-2.06900	.54340	1.14700	.88500	.00000	.48040	.00000	.88500
1.194	56.640	11.20420	15.02210	-2.07430	.68120	1.18950	.81410	.00000	.48180	.00000	.81410
1.194	58.640	11.58300	15.19290	-2.15150	.78400	1.21830	.77650	.00000	.48550	.00000	.77650
1.194	60.640	11.90010	14.91540	-2.23460	.87190	1.25520	.72830	.00000	.49280	.00000	.72830
1.194	62.640	12.23770	14.94940	-2.32490	.93090	1.28860	.68660	.00000	.49890	.00000	.68660
1.194	64.630	12.51590	14.76420	-2.39050	.98090	1.31220	.63240	.00000	.50220	.00000	.63240
1.194	66.600	12.75040	14.61030	-2.44270	.99640	1.34260	.57760	.00000	.50650	.00000	.57760
1.194	68.600	12.91210	14.33730	-2.44500	1.00170	1.36560	.52470	.00000	.51070	.00000	.52470
1.194	70.670	12.99900	13.91270	-2.44720	1.02290	1.38940	.49610	.00000	.51600	.00000	.49610
1.194	60.640	11.08330	14.80750	-2.24310	.87350	1.25550	.73130	.00000	.49350	.00000	.73130
GRADIENT		.13766	-.01975	-.02716	.05406	.01614	-.02458	.00000	.00237	.00000	-.02458

RUN NO. 303/ 0 RM/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	50.500	8.64130	9.82680	-1.24290	.64520	.78610	1.20090	.00000	.52220	.00000	1.20090
3.400	52.410	9.01380	9.18230	-1.30390	.69940	.89170	1.17220	.00000	.52250	.00000	1.17220
3.400	54.440	9.42760	9.54230	-1.36920	.72760	.88940	1.12040	.00000	.52340	.00000	1.12040
3.400	56.450	9.82950	9.90650	-1.43260	.77830	.94490	1.08900	.00000	.52390	.00000	1.08900
3.400	58.460	10.24590	10.20020	-1.48700	.81410	.94950	1.03920	.00000	.52550	.00000	1.03920
3.400	60.470	10.59200	10.32930	-1.53230	.82400	1.02330	1.00170	.00000	.52810	.00000	1.00170
3.400	62.470	10.94000	10.49820	-1.64190	.87320	1.08750	.96260	.00000	.53000	.00000	.96260
3.400	64.480	11.29490	10.68200	-1.87770	.89330	1.11610	.92100	.00000	.53160	.00000	.92100
3.400	66.480	11.60330	10.82140	-1.72440	.92630	1.14900	.87350	.00000	.53440	.00000	.87350
3.400	68.500	11.87140	10.90550	-1.78890	.95730	1.17930	.82360	.00000	.53520	.00000	.82360
3.400	70.380	12.09810	10.94680	-1.84290	.98300	1.19880	.78100	.00000	.53700	.00000	.78100
3.400	60.470	10.58330	10.37690	-1.59500	.80820	1.04470	1.00370	.00000	.52740	.00000	1.00370
GRADIENT		.17638	-.10324	-.03019	.01639	.02098	-.02109	.00000	.00079	.00000	-.02109

NSPC 507 (PAJ) TITAN III C SRN (MSETP)

(R07055) (23 APR 74)

REFERENCE DATA

SREF = .0300 50. IN ZIMP = 4.6338 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 BREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 247.906

RUN NO. 193/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	A-PHA	CWH	CLWH	CYH	CTWH	CEL	CA	CAB	KCP/L	CFP1	CAF
1.199	.030	12.90020	13.66460	-2.44460	1.02460	1.39200	.59240	.00000	.51740	.00000	.59240
1.199	72.710	13.06920	13.23610	-2.46450	1.02670	1.40150	.53060	.00000	.52310	.00000	.53060
1.199	74.690	13.14960	12.66970	-2.46970	1.01460	1.42160	.50440	.00000	.52990	.00000	.50440
1.199	76.630	13.26110	12.27680	-2.46370	.96380	1.43340	.47460	.00000	.53430	.00000	.47460
1.199	78.620	13.41010	12.11470	-2.45770	.90670	1.43980	.41790	.00000	.53710	.00000	.41790
1.199	80.630	13.57090	11.94690	-2.40370	.82790	1.43970	.33400	.00000	.54000	.00000	.33400
1.199	82.620	13.62370	11.83820	-2.41200	.82390	1.43410	.30050	.00000	.54310	.00000	.30050
1.199	84.600	14.01760	11.65940	-2.46880	.84670	1.47970	.26470	.00000	.54620	.00000	.26470
1.199	86.560	14.09430	11.35400	-2.55180	.87290	1.49620	.23070	.00000	.54950	.00000	.23070
1.199	88.570	14.08000	11.03560	-2.63210	.88970	1.51420	.19960	.00000	.55230	.00000	.19960
1.199	90.450	14.09770	10.70150	-2.67720	.89300	1.53010	.18510	.00000	.55540	.00000	.18510
1.199	90.630	13.56100	11.92500	-2.41040	.82570	1.43370	.35780	.00000	.54020	.00000	.35780
GRADIENT		.06904	-.13406	-.00958	-.00891	.00691	-.02062	.00000	.00182	.00000	-.02062

RUN NO. 302/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CWH	CLWH	CYH	CTWH	CEL	CA	CAB	KCP/L	CFP1	CAF
3.480	70.590	12.16950	10.96970	-1.84330	.96510	1.14240	.82400	.00000	.53740	.00000	.82400
3.480	72.430	12.40740	11.00780	-1.89380	.97320	1.16970	.76630	.00000	.53920	.00000	.76630
3.480	74.450	12.68350	11.03140	-1.92970	1.01000	1.20540	.71230	.00000	.54140	.00000	.71230
3.480	76.450	12.91590	10.92600	-1.96290	.99240	1.22480	.65470	.00000	.54440	.00000	.65470
3.480	78.460	13.14830	10.81920	-1.99460	1.03080	1.26020	.59540	.00000	.54730	.00000	.59540
3.480	80.450	13.28970	10.64130	-2.02560	1.06230	1.27950	.53600	.00000	.55010	.00000	.53600
3.480	82.430	13.43570	10.50390	-2.07900	1.09410	1.29110	.46050	.00000	.55180	.00000	.46050
3.480	84.440	13.57770	10.45070	-2.10420	1.16600	1.30610	.38860	.00000	.55410	.00000	.38860
3.480	86.410	13.59770	10.31770	-2.10970	1.19660	1.31430	.32340	.00000	.55730	.00000	.32340
3.480	88.410	13.69020	9.86910	-2.13040	1.18300	1.31700	.25930	.00000	.56000	.00000	.25930
3.480	90.290	13.63650	9.70380	-2.14690	1.17930	1.31190	.19330	.00000	.56140	.00000	.19330
3.480	90.430	13.27920	10.83690	-2.03330	1.09070	1.28720	.53390	.00000	.55010	.00000	.53390
GRADIENT		.07645	-.06786	-.01340	.01320	.00896	-.03207	.00000	.00126	.00000	-.03207



TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(187056) (23 APR 74)

NSFC 907(PAA) TITAN III C SRN (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 247.500

REFERENCE DATA

SIZE = .0368 IN YMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 222/ 0 RM/L = 0.64 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	109.330	12.45470	5.36270	-2.04200	.91060	1.41770	-.57660	.00000	.59700	.00000	-.37660
1.201	107.490	12.70130	5.89600	-2.14470	1.01770	1.43730	-.47770	.00000	.59270	.00000	-.47770
1.201	105.460	12.97420	6.37370	-2.17270	1.10760	1.46390	-.34040	.00000	.58930	.00000	-.34040
1.201	103.480	13.29030	6.84490	-2.21640	1.19660	1.48130	-.22690	.00000	.58500	.00000	-.22690
1.201	101.500	13.53330	7.29070	-2.23930	1.17350	1.49760	-.12390	.00000	.58050	.00000	-.12390
1.201	99.500	13.71660	6.12220	-2.29220	1.20390	1.49600	-.02160	.00000	.57650	.00000	-.02160
1.201	97.530	13.86970	6.61470	-2.23990	1.21120	1.49270	.07640	.00000	.57290	.00000	.07640
1.201	95.590	14.01400	9.00920	-2.29560	1.24990	1.50900	.16670	.00000	.57010	.00000	.16670
1.201	93.560	14.06320	9.33760	-2.26410	1.23300	1.51310	.24930	.00000	.56760	.00000	.24930
1.201	91.590	14.17460	9.64500	-2.27020	1.25920	1.50830	.31320	.00000	.56540	.00000	.31320
1.201	89.690	14.12950	9.90660	-2.22330	1.22300	1.51150	.37990	.00000	.56270	.00000	.37990
1.201	87.520	13.70950	6.16090	-2.25720	1.19520	1.49220	-.02360	.00000	.57610	.00000	-.02360
1.201	GRADIENT	-.00919	-.23.75	.00732	-.01459	-.00437	-.04839	.00000	.00176	.00000	-.04839

RUN NO. 261/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.540	11.67670	6.33490	-1.61270	.83390	1.09660	-.55260	.00000	.56400	.00000	-.55260
3.400	107.690	12.14090	6.66620	-1.66400	.90920	1.10440	-.47390	.00000	.56200	.00000	-.47390
3.400	105.630	12.44200	7.00300	-1.70500	.96990	1.13600	-.35610	.00000	.56020	.00000	-.35610
3.400	103.630	12.72930	7.36000	-1.73300	1.01540	1.16100	-.24960	.00000	.57830	.00000	-.24960
3.400	101.640	12.89070	7.80090	-1.76530	1.06970	1.19080	-.16130	.00000	.57610	.00000	-.16130
3.400	99.620	13.04900	6.93370	-1.80390	1.13590	1.21400	-.06660	.00000	.57340	.00000	-.06660
3.400	97.690	13.22800	6.42360	-1.82960	1.17920	1.22610	.00400	.00000	.57090	.00000	.00400
3.400	95.690	13.34350	6.73490	-1.82190	1.19620	1.23730	.09900	.00000	.56860	.00000	.09900
3.400	93.670	13.46970	9.06300	-1.82690	1.21750	1.23500	.17310	.00000	.56630	.00000	.17310
3.400	91.600	13.55850	9.37360	-1.82360	1.24690	1.23670	.25590	.00000	.56400	.00000	.25590
3.400	89.760	13.61100	9.59320	-1.80350	1.26690	1.26460	.33190	.00000	.56230	.00000	.33190
3.400	87.690	13.01340	6.05190	-1.80480	1.14290	1.20360	-.07640	.00000	.57320	.00000	-.07640
3.400	GRADIENT	-.00696	-.16642	.00986	-.02161	-.00911	-.04486	.00000	.00113	.00000	-.04486

NSFC 907 (FA4) TITAN III C SRM (MDETP)

(IR7057) (23 APR 74)

REFERENCE DATA

XREF = .0300 IN XMP = 4.0338 IN.
 LREF = .0000 IN. YMP = .0000 IN.
 BREF = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 247.500

RUN NO. 223/ 0 RW/L = 0.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.202	129.260	9.32100	.73850	-1.71350	.31310	1.08600	-1.55020	.00000	.64150	.00000	-1.55020
1.202	127.340	9.71600	1.03610	-1.75500	.43700	1.12400	-1.47410	.00000	.63800	.00000	-1.47410
1.202	129.360	10.11900	1.44920	-1.79330	.57440	1.16500	-1.39290	.00000	.63340	.00000	-1.39290
1.202	123.350	10.45900	1.79190	-1.80610	.64600	1.20800	-1.28940	.00000	.62990	.00000	-1.28940
1.202	121.340	10.76970	2.23290	-1.80830	.67770	1.24750	-1.18680	.00000	.62520	.00000	-1.18680
1.202	119.350	11.08230	2.73890	-1.92760	.69910	1.27780	-1.08360	.00000	.62020	.00000	-1.08360
1.202	117.360	11.42100	3.27090	-1.99900	.72690	1.32520	-.97520	.00000	.61520	.00000	-.97520
1.202	115.370	11.71230	3.80920	-2.04440	.77700	1.34960	-.89950	.00000	.61030	.00000	-.89950
1.202	113.380	11.99970	4.26150	-2.05250	.83660	1.37340	-.74650	.00000	.60630	.00000	-.74650
1.202	111.390	12.28480	4.76330	-2.03990	.92090	1.39630	-.61970	.00000	.60240	.00000	-.61970
1.202	109.410	12.54270	5.37050	-2.07190	1.06160	1.41490	-.51240	.00000	.59730	.00000	-.51240
1.202	119.390	11.05530	2.73960	-1.92950	.69430	1.27340	-1.08530	.00000	.62010	.00000	-1.08530
GRADIENT		-.16103	-.23646	.02097	-.03096	-.01701	-.05316	.00000	.00226	.00000	-.05316

RUN NO. 200/ 0 RW/L = 0.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWH	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.378	8.18530	3.27000	-1.04270	.39000	.76820	-1.55990	.00000	.60080	.00000	-1.55990
3.400	127.660	8.60010	3.40020	-1.11150	.41410	.81110	-1.44090	.00000	.60030	.00000	-1.44090
3.400	123.630	9.03330	3.71950	-1.19230	.46600	.86630	-1.31590	.00000	.59940	.00000	-1.31590
3.400	123.620	7.45250	4.02460	-1.25570	.53860	.91590	-1.19440	.00000	.59760	.00000	-1.19440
3.400	121.610	9.85210	4.39050	-1.31220	.59780	.94030	-1.09810	.00000	.59590	.00000	-1.09810
3.400	119.610	10.26180	4.89110	-1.37520	.63340	.96700	-.99710	.00000	.59360	.00000	-.99710
3.400	117.610	10.66360	5.03770	-1.43120	.69850	.99080	-.90040	.00000	.59170	.00000	-.90040
3.400	115.600	11.06110	5.36540	-1.48800	.70490	1.02730	-.78650	.00000	.58970	.00000	-.78650
3.400	113.600	11.31400	5.69570	-1.53150	.74440	1.05350	-.68360	.00000	.58790	.00000	-.68360
3.400	111.580	11.64200	5.99210	-1.56620	.77970	1.06480	-.59850	.00000	.58640	.00000	-.59850
3.400	109.700	11.91760	7.31320	-1.61250	.84560	1.06980	-.51150	.00000	.58440	.00000	-.51150
3.400	119.610	10.23720	4.69190	-1.37500	.63210	.93390	-1.00230	.00000	.59350	.00000	-1.00230
GRADIENT		-.18892	-.15600	.02811	-.02349	-.01528	-.05244	.00000	.00087	.00000	-.05244



TABULATED SOURCE DATA, NSFC TWT 507

(897059) (23 APR 74)

NSFC 507(744) TITAN III C SRN (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 247.500

REFERENCE DATA

REFP = .0360 SR IN XMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 03/ 0 RM/L = 6.09 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	CWM	CLWM	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	169.390	.93500	-.89910	-.33970	.22960	.15760	-1.92500	.14210	.77320	-.14210	-2.06800
1.197	167.420	1.17410	-1.10990	-.43650	.19320	.20260	-1.90670	.16060	.77110	-.16060	-2.12950
1.197	165.340	1.47480	-1.31510	-.51170	.06390	-.29330	-2.01450	.17310	.76430	-.17310	-2.18770
1.197	163.240	1.81740	-1.46920	-.50060	.00110	.31240	-2.04280	.18290	.75390	-.18290	-2.22370
1.197	161.160	2.22840	-1.62390	-.43480	.00460	.35350	-2.07050	.19630	.74370	-.19630	-2.26690
1.197	159.050	2.67260	-1.71230	-.43040	-.06110	.41340	-2.09050	.21630	.73260	-.21630	-2.30690
1.197	156.910	3.17530	-1.75430	-.63770	-.49290	.46960	-2.10810	.23970	.72140	-.23970	-2.34790
1.197	154.760	3.77480	-1.68848	-.76520	-.80000	.52690	-2.11730	.25920	.70810	-.25920	-2.37560
1.197	152.670	4.37370	-1.60560	-.83440	-.82570	.57440	-2.09390	.27960	.70040	-.27960	-2.37350
1.197	150.530	4.90740	-1.60310	-.80540	-.64380	.63510	-2.06470	.29130	.69290	-.29130	-2.35610
1.197	148.510	5.51160	-1.31440	-.99830	-.53530	.68330	-2.04770	.32060	.68170	-.32060	-2.37630
1.197	159.020	2.89200	-1.75640	-.45360	-.03740	.42490	-2.09430	.19790	.73410	-.19790	-2.28220
GRADIENT		-.22220	-.02470	-.02809	.05172	-.02530	.00611	-.00852	.00466	-.00852	-.01463

RUN NO. 53/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWM	CLWM	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	169.390	.64610	-.30170	-.02730	.01480	.06960	-1.93530	.09650	.71040	-.09650	-1.99190
3.480	167.610	.86690	-.24910	-.06440	-.03390	.08540	-1.98210	.06020	.68700	-.06020	-2.04240
3.480	165.560	1.15500	-.23240	-.05250	.03410	.11220	-2.02910	.06470	.67700	-.06470	-2.09390
3.480	163.510	1.44740	-.23290	-.05800	.05060	.13310	-2.07880	.06950	.67180	-.06950	-2.14730
3.480	161.480	1.79070	-.20290	-.08770	-.00630	.15410	-2.13250	.06740	.66610	-.06740	-2.19980
3.480	159.420	2.05250	-.10620	-.12840	-.16990	.17710	-2.17680	.06010	.65800	-.06010	-2.23700
3.480	157.360	2.39340	-.00090	-.17250	-.21590	.19710	-2.19230	.04560	.65150	-.04560	-2.23800
3.480	155.300	2.77170	-.11100	-.21720	-.23470	.21080	-2.19710	.03010	.64640	-.03010	-2.22720
3.480	153.280	3.17300	-.36690	-.27700	-.19080	.25980	-2.18760	.01670	.64200	-.01670	-2.20440
3.480	151.180	3.58810	-.32680	-.32560	-.11360	.29780	-2.17800	.00600	.63640	-.00600	-2.18400
3.480	149.200	4.01350	-.65570	-.38020	-.05990	.34330	-2.16390	-.00780	.63140	.00780	-2.15600
3.480	159.420	2.04070	-.09620	-.12930	-.14320	.16390	-2.18320	-.05950	.63760	-.05950	-2.24280
GRADIENT		-.16444	-.04310	-.01729	.00955	-.01277	.01196	-.00348	.00341	-.00348	-.00850

MOPC 907 (744) TWTM III C SRM (MSETP)

(MOPC000) (23 APR 74)

REFERENCE DATA

ORFP = .0300 80. IN ZMRP = 4.0336 IN.
 LRC7 = .9000 IN. YMRP = .0000 IN.
 BRC7 = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 247.900

RUN NO. 04/ 0 RM/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	190.280	-.79010	.07070	.39220	.20560	-.09090	-1.51630	.13690	.79220	-.13690	-1.63330
1.200	188.330	-.37130	.01490	.29090	.09320	-.09160	-1.32150	.12290	.83200	-.12290	-1.64460
1.200	186.290	-.43280	.72350	.18960	-.11410	-.03240	-1.52700	.11450	.67340	-.11450	-1.64150
1.200	184.240	-.29790	.53210	.10100	-.13790	-.09290	-1.59630	.11070	.91260	.11070	-1.68910
1.200	182.210	-.10190	.38080	.02180	-.14560	-.02120	-1.59910	.09670	1.09940	.09670	-1.69900
1.200	180.140	.06350	.19580	-.04800	-.13720	.00810	-1.61570	.08320	.70300	-.08320	-1.70100
1.200	178.080	.19460	-.07920	-.07880	-.08740	.03300	-1.67130	.06650	.70300	-.06650	-1.73790
1.200	176.040	.31650	-.30590	-.09220	-.00170	-.09690	-1.72640	.08060	.77310	-.08060	-1.81500
1.200	174.000	.50390	-.54880	-.13390	.09880	.06260	-1.79090	.08190	.76930	-.08190	-1.87290
1.200	171.910	.74310	-.70450	-.23050	.19660	.12360	-1.86500	.09750	.77150	-.09750	-1.96260
1.200	169.950	.94010	-.86050	-.34860	.22500	.16570	-1.91810	.12870	.76730	-.12870	-2.04690
1.200	168.130	.07230	.19810	-.05700	-.13710	.00360	-1.82720	.08310	.37490	-.08310	-1.71040
GRADIENT		-.08056	.09218	.03150	-.00591	-.00972	.02045	.00131	.00579	-.00131	.01914

RUN NO. 54/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CMW	CLMW	CYN	CTWM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.180	-.69930	.16540	.22400	.04130	-.01990	-1.60320	.05770	.68340	-.05770	-1.74100
3.400	188.230	-.48290	.24630	.18960	.01240	-.02710	-1.68130	.05330	.71590	-.05330	-1.73470
3.400	186.210	-.36790	.28910	.19310	-.04590	-.01720	-1.67360	.04460	.74420	-.04460	-1.71830
3.400	184.190	-.23240	.24010	.09240	-.07460	-.02760	-1.69100	.03660	.78220	-.03660	-1.72960
3.400	182.170	-.14540	.18750	.06790	-.08190	-.01080	-1.71730	.03480	.81470	-.03480	-1.73210
3.400	180.150	-.05770	.06640	.05040	-.07120	-.01510	-1.74230	.03480	.79730	-.03480	-1.77720
3.400	178.120	.08090	-.06230	.03980	-.06420	-.00750	-1.75850	.03550	.76590	-.03550	-1.79400
3.400	176.100	.17010	-.17590	.03440	-.02620	.00790	-1.79800	.03950	.78190	-.03950	-1.83650
3.400	174.090	.29800	-.24620	.04110	.02500	.01610	-1.84120	.03730	.79610	-.03730	-1.87880
3.400	172.040	.44770	-.27950	.08940	.04210	.03960	-1.88480	.03370	.79050	-.03370	-1.93850
3.400	170.090	.64950	-.26700	.01450	.01430	.05400	-1.91740	.03690	.70740	-.03690	-1.97640
3.400	168.150	-.05880	.08040	.03700	-.08190	-.02940	-1.73820	.03580	.03060	-.03580	-1.77400
GRADIENT		-.05997	.03161	.01074	-.00142	-.00371	.01238	.00006	-.00074	-.00006	.01232



(R07061) (23 APR 74)

NSFC 507(F44) TITAN III C 3RM (MDETP)

REFERENCE DATA

SREF = .0360 IN YMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 229.000

RUN NO. 159/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.997	-10.000	-.63480	-1.01760	.06590	-.19430	.05190	.63030	.10970	.49720	-.10970	.52030
.997	-9.000	-.06960	-.73710	.06310	-.20760	.05030	.61480	.09590	.51210	-.09590	.51070
.997	-8.000	-.55170	-.40600	.07070	-.19390	.05000	.60630	.00010	.59830	-.00010	.52630
.997	-4.070	-.46790	-.19030	.04990	-.15500	.06180	.58580	.06630	.60000	-.06630	.51740
.997	-2.050	-.32700	.05100	.06590	-.24280	.04500	.56230	.07020	.67160	-.07020	.49220
.997	-.020	-.22360	.29100	.04330	-.20270	.03330	.54670	.07430	.61030	-.07430	.47210
.997	1.990	-.11410	.80150	-.04630	-.17330	.06010	.55700	.06390	1.31030	-.06390	.49310
.997	4.010	.04590	.09760	-.01900	-.21000	.05640	.56780	.06020	-1.71290	-.06020	.49960
.997	6.010	.15160	1.11660	-.05410	-.31530	.05260	.57370	.06920	-.28040	-.06920	.50640
.997	8.030	.27260	1.47890	-.02900	-.35320	.09240	.58190	.07750	-.03300	-.07750	.50430
.997	9.960	.41370	1.72080	-.05230	-.41460	.10470	.60490	.09170	.12770	-.09170	.51320
.997	-.020	-.26030	.27100	-.00230	-.11740	.05360	.54960	.06020	.78330	-.06020	.48930
GRADIENT		.06141	.13096	-.01237	-.00202	.00041	-.00206	-.00033	-.19667	.00033	-.00172

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

RUN NO. 158/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	KCP/L	CPB1	CAF
.901	-10.070	-.63070	-1.03030	.05450	-.16370	.03320	.60710	.12070	.49450	-.12070	.60630
.901	-8.160	-.09050	-.75600	.06990	-.16770	.02020	.79710	.10300	.51290	-.10300	.69410
.901	-6.120	-.53580	-.45960	.07400	-.15300	.01920	.79020	.08350	.54290	-.08350	.70670
.901	-4.090	-.41580	-.13860	.05360	-.15040	.02440	.77530	.07310	.60930	-.07310	.70220
.901	-2.060	-.29660	.10320	.02930	-.13780	.02320	.75480	.06750	.69640	-.06750	.68730
.901	-.030	-.16240	.37150	-.00750	-.14020	.02960	.73170	.06640	.94090	-.06640	.68320
.901	2.010	-.06420	.64990	-.04560	-.16890	.02480	.75600	.06680	1.93150	-.06680	.69910
.901	4.040	.10260	.91890	-.05340	-.17710	.04200	.76480	.06690	-.48140	-.06690	.69790
.901	6.060	.22360	1.22100	-.09320	-.25360	.05360	.77500	.07420	-.03280	-.07420	.70150
.901	8.090	.33890	1.51940	-.14000	-.35330	.06450	.79000	.08650	.08420	-.08650	.71150
.901	10.040	.46750	1.86250	-.19780	-.44360	.09000	.81010	.10010	.00420	-.10010	.71000
.901	-.030	-.17440	.36210	-.00710	-.12690	.02730	.74800	.06950	.91410	-.06950	.67850
GRADIENT		.06243	.13083	-.01423	-.00416	.00171	-.00097	-.00064	-.04649	.00064	-.00033

WSPC 907 (FA4) TITAN III C SRM (MDETP)

(087063) (23 APR 74)

REFERENCE DATA

ORFZ = .0300 IN XWRP = 4.0330 IN.
 LREF = .0000 IN. YWRP = .0000 IN.
 ORFZ = .0000 IN. ZWRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 229.000

RUN NO. 197/ 0 RM/L = 0.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CLMN	CYN	CYH	CYMH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.197	-10.130	-1.10000	-.00250	-.10660	.03390	1.20360	.23930	.49910	-.23930	-.96420	
1.197	-8.200	-.81000	.02250	-.13170	.03570	1.10780	.22000	.51760	-.22000	.96700	
1.197	-6.160	-.54960	.01630	-.13180	.02500	1.16910	.20640	.53770	-.20640	.96280	
1.197	-4.110	-.20900	-.00430	-.10720	.02680	1.16020	.20000	.59240	-.20000	.95730	
1.197	-2.070	-.30090	-.03830	-.06650	.02750	1.16550	.21420	.67490	-.21420	.95120	
1.197	-.010	-.14950	-.05920	-.04250	.03300	1.15170	.19360	.96390	-.19360	.93810	
1.197	2.020	.64230	-.05770	-.11410	.03480	1.13330	.18250	4.56600	-.18250	.97040	
1.197	4.070	.98520	-.07570	-.14010	.04200	1.10230	.19170	-.34240	-.19170	.97060	
1.197	6.090	.85040	-.07050	-.17470	.04640	1.21290	.21400	-.02130	-.21400	.95610	
1.197	8.140	.39400	-.06330	-.27640	.06200	1.24860	.23810	.09180	-.23810	1.01050	
1.197	10.120	.57960	-.03830	-.35350	.08440	1.27060	.25430	.17500	-.25430	1.01630	
1.197	-.010	-.19590	-.04920	-.07480	.02670	1.15010	.18620	.91950	-.18620	.96390	
GRADIENT	-.06979	.14546	-.00793	-.00496	.00192	.00096	-.00320	.09845	-.00320	.00419	

RUN NO. 123/ 0 RM/L = 0.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CLMN	CYN	CYH	CYMH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.967	-10.190	-1.70060	.03350	-.04740	.02430	.93730	.13620	.41250	-.13620	-.79900	
1.967	-8.220	-1.26340	.04700	-.03370	.01840	.90620	.13070	.42130	-.13070	.77540	
1.967	-6.180	-.87610	.04350	-.07120	.01140	.88860	.12130	.42960	-.12130	.76720	
1.967	-4.110	-.52110	.02670	-.04640	.01490	.87930	.10780	.45310	-.10780	.77150	
1.967	-2.060	-.20560	.00980	-.03390	.01010	.87080	.09560	.51310	-.09560	.77510	
1.967	-.010	.14180	-.00500	-.00410	.00970	.86870	.09070	.95950	-.09070	.77790	
1.967	2.040	.59930	-.03360	.00050	.01570	.86170	.09520	.03780	-.09520	.78640	
1.967	4.090	.92700	-.03470	-.01650	.02130	.84950	.09340	.16050	-.09340	.79910	
1.967	6.150	.37650	-.04650	-.04790	.03170	.82780	.10860	.20920	-.10860	.81920	
1.967	8.220	.16630	-.07020	-.10070	.05520	.96610	.12590	.25320	-.12590	.84030	
1.967	10.220	.04750	-.06700	-.07280	.07280	.99750	.13880	.30240	-.13880	.85880	
1.967	-.010	-.03210	-.01760	-.00370	.00650	.85110	.08570	1.29400	-.08570	.76530	
GRADIENT	-.07079	.17842	-.01024	.00459	.00031	.00201	-.00123	-.05169	.00123	.00324	



(R97061) (23 APR 74)

MSFC 587 (FA4) TITAN III C SRM (MSBTP)

PARAMETRIC DATA

REFERENCE DATA

BREP = .0360 30. IN XMRP = 4.6330 IN.
 LREP = .9000 IN. YMRP = .0000 IN.
 BREP = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 225.000

RUN NO. 22/ 0 RM/L = 6.31 GRADIENT INTERVAL = -3.00/ 3.00

MACN	ALPHA	CMN	CLMN	CYN	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	-10.240	-.08440	-1.69020	.05100	-.07580	.00960	.75040	.06990	.40960	-.06990	.60140
3.480	-8.200	-.05100	-1.32100	.01100	-.04270	.00370	.73430	.06360	.39470	-.06360	.67060
3.480	-8.230	-.43730	-.95080	.04700	-.06160	.01020	.76610	.05920	.37630	-.05920	.64600
3.480	-4.200	-.29340	-.50090	.03200	-.06070	.00790	.70990	.05330	.40280	-.05330	.63320
3.480	-2.190	-.15200	-.26080	.00330	-.04000	.00360	.71020	.04930	.41910	-.04930	.60000
3.480	-.130	.00240	.05660	-.02170	-.01970	.00320	.71110	.04300	-.2.24780	-.04300	.66600
3.480	1.090	.13260	.40480	-.04480	-.03930	.01310	.73230	.04810	.26510	-.04810	.68410
3.480	3.930	.27340	.74640	-.04720	-.03560	.02240	.75590	.05290	.30600	-.05290	.70340
3.480	5.940	.45330	1.09120	-.05720	-.07960	.02660	.77190	.05990	.34680	-.05990	.71200
3.480	8.010	.70960	1.40890	-.05960	-.04960	.02940	.80580	.06780	.39980	-.06780	.73800
3.480	9.970	.98040	1.73630	-.10330	-.00320	.04360	.82660	.07200	.42730	-.07200	.75460
3.480	GRADIENT	.00320	.04320	-.02800	-.02470	.01480	.71240	.04290	-.1.01270	-.04290	.66930
		.06996	.16417	-.01025	.00151	.00179	.00575	-.00033	-.01773	.00033	.00608

RUN NO. 23/ 0 RM/L = 4.91 GRADIENT INTERVAL = -3.00/ 3.00

MACN	ALPHA	CMN	CLMN	CYN	CYM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	-10.120	-.74250	-1.42620	.00760	-.03560	-.02490	.63530	.02600	.40600	-.02600	.60920
4.939	-8.190	-.57030	-1.17290	.00350	-.07060	-.00300	.61880	.02350	.39120	-.02350	.59320
4.939	-6.180	-.39920	-.84930	.00410	-.05790	.00610	.61050	.02330	.36950	-.02330	.58720
4.939	-4.180	-.25330	-.62380	-.04170	-.19250	-.03900	.56090	.01970	.33990	-.01970	.54110
4.939	-2.170	-.11080	-.33230	-.04200	-.07710	-.03150	.60430	.02020	.27190	-.02020	.58400
4.939	-.130	.09100	.06670	-.05820	-.04620	.00390	.60370	.01920	.55670	-.01920	.58440
4.939	1.090	.12020	.27600	-.07630	-.11990	-.04950	.61000	.01920	.36110	-.01920	.59070
4.939	3.600	.28910	.59040	-.05090	-.10230	-.05110	.63440	.02020	.39300	-.02020	.61410
4.939	5.900	.51970	.86680	-.06430	-.03340	.01290	.66720	.02330	.43550	-.02330	.64390
4.939	7.910	.69220	1.11130	-.08140	-.19040	.00000	.60360	.02330	.4.830	-.02330	.65030
4.939	9.850	.89590	1.38410	-.12210	-.03930	.03090	.75520	.02760	.45590	-.02760	.68730
4.939	GRADIENT	.06290	.04440	-.07220	-.05390	-.04240	.59170	.02180	.58160	-.02180	.56990
		.06533	.15079	-.00298	.00285	-.00214	.00757	-.00000	.00977	.00000	.00757

NSFC 907 (PA4) TITAN III C SRN (IMBETP)

180700Z (23 APR 74)

REFERENCE DATA

REF = .0300 90. IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 100/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
.994	10.310	.39310	1.77170	-.03300	-.43690	.00490	.61730	.00190	.06400	-.00190	.53540
.994	12.440	.50030	2.06240	-.02830	-.51440	.10050	.62300	.09300	.16110	-.09300	.53000
.994	14.440	.60700	2.46110	-.04340	-.59770	.13160	.62720	.09720	.19810	-.09720	.52990
.994	16.470	.91210	2.83140	-.09820	-.64740	.16080	.62380	.10340	.25580	-.10340	.52020
.994	18.490	1.12330	3.28840	-.11330	-.70000	.18130	.61030	.11650	.28330	-.11650	.49390
.994	20.540	1.33930	3.66910	-.05640	-.71250	.21260	.59950	.13140	.30470	-.13140	.46000
.994	22.570	1.56620	4.03030	.04710	-.66070	.22500	.57650	.13390	.33030	-.13390	.42230
.994	24.600	1.86770	4.31900	.06190	-.59610	.23033	.55600	.15810	.34550	-.15810	.39790
.994	26.620	2.14410	4.97370	-.11120	-.56290	.29020	.52570	.15990	.35790	-.15990	.36980
.994	28.630	2.45630	5.40780	-.21490	-.59220	.31620	.48290	.14770	.37280	-.14770	.33310
.994	30.610	2.78430	5.97600	-.43720	-.69210	.37920	.45050	.16670	.37980	-.16670	.26370
.994	20.540	1.32640	3.62270	-.09800	-.78890	.21240	.59440	.13350	.30380	-.13350	.46090
GRADIENT		.11831	.20868	-.01042	-.02765	.01342	-.00841	.00435	.01327	-.00435	-.01276

RUN NO. 161/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
.899	10.600	.93220	1.90930	-.21478	-.48120	.00930	.61970	.10400	.19740	-.10400	.71970
.899	12.542	.71410	2.26660	-.25370	-.52540	.10400	.63960	.11120	.24980	-.11120	.72640
.899	14.510	.91830	2.86970	-.29170	-.56110	.11860	.62260	.11630	.28270	-.11630	.70420
.899	16.620	1.16230	3.14880	-.36130	-.60030	.14840	.60460	.12760	.30860	-.12760	.67700
.899	18.690	1.42010	3.89030	-.51970	-.62690	.16790	.79290	.12540	.32260	-.12540	.63700
.899	20.770	1.72670	4.31630	-.66540	-.59690	.20130	.77720	.13830	.33310	-.13830	.63890
.899	22.850	2.03130	4.94840	-.68000	-.56290	.23190	.74480	.14280	.34320	-.14280	.60190
.899	24.940	2.35010	5.80960	-.60390	-.57150	.25010	.72320	.15200	.33430	-.15200	.57120
.899	27.070	2.72680	6.72160	-.91700	-.65330	.29100	.68330	.15650	.33930	-.15650	.52670
.899	29.120	3.11360	7.53220	-.65770	-.59810	.31090	.63390	.17930	.34330	-.17930	.49480
.899	31.130	3.57240	8.30080	-.79970	-.55820	.34020	.58360	.16100	.35030	-.16100	.40280
.899	20.780	1.74170	4.31210	-.68590	-.59770	.19330	.76340	.13390	.33010	-.13390	.62780
GRADIENT		.14836	.32135	-.03354	-.00365	.01263	-.01157	.00369	.00609	-.00369	-.01326



REFERENCE DATA

REF = .0000 IN. YMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 225.000

PARAMETRIC DATA

RUN NO. 102/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYCH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	10.878	.97540	2.17700	-.03900	-.33190	-.07510	1.86720	.24360	.17260	-.24360	1.02390
1.194	12.830	.70760	2.62370	-.02710	-.30700	-.09760	1.27790	.23360	.22990	-.23360	1.02430
1.194	14.800	1.02760	3.12370	-.04690	-.46050	-.11950	1.29390	.23140	.26680	-.23140	1.00250
1.194	16.770	1.32630	3.71080	-.12290	-.49010	-.14790	1.23600	.23450	.29680	-.23450	.98140
1.194	18.800	1.87810	4.36670	-.23390	-.44490	-.17470	1.20060	.26200	.32210	-.26200	.94860
1.194	21.000	2.11640	5.15810	-.35650	-.40950	-.20940	1.16720	.27520	.34300	-.27520	.91190
1.194	23.130	2.81760	6.09960	-.50200	-.49410	-.24060	1.16510	.29800	.35720	-.29800	.87220
1.194	25.200	3.11660	7.04830	-.60250	-.49160	-.27420	1.14150	.29800	.36530	-.29800	.84220
1.194	27.400	3.46500	8.03560	-.68910	-.49090	-.31260	1.11170	.30760	.37400	-.30760	.80360
1.194	29.950	4.25020	8.93640	-.85630	-.41350	-.35100	1.07620	.31210	.38530	-.31210	.76400
1.194	31.620	4.95110	9.73350	-.92510	-.49680	-.39520	1.03740	.31860	.39900	-.31860	.71870
1.194	21.016	2.13020	5.22260	-.35720	-.44080	-.19930	1.17500	.26790	.34120	-.26790	.90700
GRADIENT		.20646	.37199	-.04711	-.00231	.01477	-.01129	.00368	.00966	-.00368	-.01317

RUN NO. 122/ 0 RM/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYCH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.992	10.750	.83490	2.37890	-.10170	-.10070	.05440	1.02060	.14510	.27900	-.14510	.87540
1.972	12.720	1.2326	2.69910	-.11450	-.22690	.07900	1.02340	.14900	.32930	-.14900	.87440
1.952	14.820	1.92310	3.42390	-.17960	-.20340	.09460	1.03440	.15230	.36660	-.15230	.86200
1.932	16.930	1.93720	3.95170	-.25610	-.18360	.10700	1.04650	.15670	.39330	-.15670	.88970
1.932	19.040	2.38730	4.48030	-.33240	-.16400	.12200	1.06390	.16990	.41400	-.16990	.89400
1.932	21.170	2.82770	4.98740	-.37480	-.16670	.13990	1.08660	.18250	.42830	-.18250	.90410
1.952	23.300	3.29210	5.52340	-.40090	-.16110	.15990	1.11100	.19270	.43800	-.19270	.91930
1.952	25.420	3.75980	6.13620	-.42940	-.16450	.17690	1.14050	.20080	.44460	-.20080	.93960
1.952	27.520	4.24250	6.69260	-.46270	-.14370	.19520	1.19090	.19700	.45300	-.19700	.95390
1.952	29.650	4.70280	7.10840	-.46980	-.13240	.22360	1.15160	.19530	.46020	-.19530	.95630
1.952	31.660	5.17240	7.50060	-.43990	-.19820	.25260	1.19710	.20030	.46660	-.20030	.95890
1.952	21.570	2.64190	4.99510	-.31990	-.15390	.14300	1.07690	.16430	.43080	-.16430	.89460
GRADIENT		.21096	.29036	-.01866	.00196	.00866	.00767	.00303	.00796	-.00303	-.00464

MWPC 967 (FAA) TITAN III C SRN (MDETP)

(R07002) (23 APR 74)

REFERENCE DATA

BREF = .0300 IN ZIMP = 4.6336 IN.
 LBREF = .0000 IN. YIMP = .0000 IN.
 RBREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 29/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	10.310	.06850	1.74040	-.11820	-.09270	.04450	.93620	.07240	.42400	-.07240	.76300
3.400	12.400	1.26390	2.07290	-.13350	-.06760	.05690	.86660	.07390	.44390	-.07390	.79270
3.400	14.310	1.59970	2.46090	-.16160	-.06180	.06470	.90130	.07420	.45180	-.07420	.82700
3.400	16.360	1.98880	2.83070	-.19370	-.04860	.08170	.93420	.07310	.45260	-.07310	.86110
3.400	18.610	2.37970	3.18020	-.18800	-.09270	.09920	.96690	.07000	.46600	-.07000	.89600
3.400	20.070	2.51990	3.53220	-.18300	-.09610	.09900	.99610	.07050	.47410	-.07050	.92620
3.400	22.720	2.88980	3.87330	-.19550	-.05630	.11850	1.03430	.06650	.48160	-.06650	.96380
3.400	24.790	3.30140	4.26680	-.23690	.03456	.14050	1.07540	.06540	.48790	-.06540	1.00800
3.400	26.830	3.86810	4.67330	-.28140	.02650	.15740	1.09990	.06760	.49130	-.06760	1.03220
3.400	28.910	4.04930	5.10460	-.32730	.00360	.17280	1.12460	.06130	.49190	-.06130	1.06330
3.400	30.900	4.47320	5.60350	-.37410	-.06610	.19790	1.15170	.05540	.49290	-.05540	1.09630
3.400	20.670	2.50630	3.52180	-.18420	-.10050	.10500	.99590	.07360	.47360	-.07360	.92490
GRADIENT		.17150	.18476	-.01078	.00907	.00732	.01578	-.00073	.00322	.00573	.01651

RUN NO. 24/ 0 RM/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	ICP/L	CPB1	CAF
4.959	10.370	.89370	1.41700	-.12430	-.10260	.01670	.76370	.03130	.45130	-.03130	.73230
4.959	12.510	1.19340	1.73500	-.15290	-.06040	.04760	.81340	.03000	.46140	-.03000	.78230
4.959	14.330	1.39540	1.97990	-.13470	-.11440	.05290	.84130	.03060	.46660	-.03060	.81070
4.959	16.390	1.67240	2.31210	-.18440	-.15460	.07000	.89110	.02980	.47630	-.02980	.86320
4.959	18.370	1.98730	2.57800	-.19690	-.10510	.10160	.95440	.02960	.48730	-.02960	.92920
4.959	20.400	2.33230	3.02200	-.22520	-.05180	.11860	1.00440	.02980	.48750	-.02980	.97460
4.959	22.420	2.67750	3.34110	-.26620	-.02150	.11090	1.05720	.02800	.49350	-.02800	1.02910
4.959	24.450	3.05160	3.74490	-.30950	-.00890	.11820	1.10860	.02530	.49820	-.02530	1.08350
4.959	26.490	3.42260	4.05630	-.30870	-.02750	.13350	1.16270	.02070	.50130	-.02070	1.14190
4.959	28.500	3.79510	4.49370	-.32590	-.10440	.12070	1.18300	.01700	.50160	-.01700	1.18650
4.959	30.490	4.16730	4.92800	-.34030	-.07190	.15020	1.20010	.01320	.50180	-.01320	1.18850
4.959	20.390	2.30540	2.93980	-.23920	-.07790	.13490	1.01490	.02600	.49010	-.02600	.98890
GRADIENT		.16498	.17344	-.01151	.00313	.00804	.02329	-.00084	.00234	.00684	.02413



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TUT 307

PAGE 103

(807003) (23 APR 74)

NSFC 507(FA4) TITAN III C SRM (M8E7P)

REFERENCE DATA

BREV = .0300 IN XMRP = 4.0330 IN.
 LUEP = .0000 IN. YMRP = .0003 IN.
 BREV = .0000 IN. ZMRP = .0000 IN.
 SCALE = .2074

PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 103/ 0 RM/L = 0.01 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CP81	CAF
1.194	31.030	4.94000	9.50643	-.93970	-.31360	.37000	1.01040	.29310	.40030	-.29310	.72930
1.194	33.060	3.36760	10.20570	-.92370	-.37030	.40470	.98820	.30300	.41950	-.30300	.67830
1.194	35.990	6.37100	10.94390	-.84970	-.42990	.43540	.95160	.31030	.42700	-.31030	.63320
1.171	36.110	6.73550	11.65210	-.85000	-.36050	.48270	.92170	.33710	.43320	-.33710	.59430
1.194	40.240	7.37836	12.23480	-.97030	-.10060	.48700	.89090	.34550	.43990	-.34550	.54530
1.194	42.380	7.97230	12.87350	-1.04310	.06730	.50340	.84820	.33730	.44710	-.33730	.51080
1.194	43.500	8.53260	13.57070	-1.05330	.04690	.53400	.79600	.33970	.45070	-.33970	.45830
1.194	46.620	9.38330	14.30820	-.97580	.03440	.54820	.73260	.32820	.45490	-.32820	.40430
1.194	46.710	9.63230	14.60090	-.96020	.09630	.56690	.66900	.32190	.45080	-.32190	.34700
1.194	50.610	10.33030	15.09110	-1.00210	.20360	.59070	.60870	.36230	.46290	-.36230	.24430
1.194	52.610	10.43670	15.42200	-1.01560	.10960	.61310	.54430	.35480	.46200	-.35480	.18940
1.194	42.380	7.99890	12.71900	-1.01530	-.03500	.49360	.66340	.34690	.45020	-.34690	.51450
GRADIENT		.26075	.29043	-.60589	-.02994	.01089	-.02235	.00225	.00255	-.02225	-.42460

RUN NO. 26/ 0 RM/L = 0.34 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CP81	CAF
3.400	30.990	4.50000	5.62530	-.36090	-.02440	.18260	1.17460	.09030	.49330	-.09030	1.11030
3.400	32.980	4.60630	6.08140	-.38750	-.03340	.20030	1.18530	.05460	.49400	-.05460	1.13060
3.430	35.030	5.29590	6.36740	-.42610	-.02370	.21770	1.20380	.05170	.49450	-.05170	1.13210
3.400	37.090	5.69630	7.01690	-.47690	-.00960	.25220	1.21300	.04490	.49550	-.04490	1.16800
3.400	39.140	6.12190	7.48920	-.52740	.01160	.26000	1.21900	.04090	.49660	-.04090	1.17810
3.400	41.230	6.53430	7.90340	-.57760	.01370	.29130	1.20330	.03430	.49830	-.03430	1.17090
3.400	43.290	6.97310	8.34590	-.63510	.06990	.33030	1.19930	.03090	.50000	-.03090	1.16830
3.400	45.380	7.38670	8.73760	-.68890	.09000	.37760	1.18150	.02600	.50160	-.02600	1.15540
3.400	47.400	7.79930	9.18410	-.73890	.11920	.40260	1.15950	.02120	.50240	-.02120	1.13520
3.400	49.490	8.20150	9.57930	-.81280	.17100	.42690	1.12300	.00760	.50360	-.00760	1.11540
3.400	51.480	8.57780	9.94110	-.88940	.22350	.47840	1.08120	-.00190	.50480	.00190	1.09310
3.400	41.220	6.52240	7.67030	-.59320	.03660	.31200	1.21170	.03520	.49670	-.03520	1.17650
GRADIENT		.20060	.21087	-.02962	.01216	.01470	-.00416	-.00276	.00060	-.00276	-.00136

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

WOPC 987 (FA4) TITAN III C SRM (MDETP)

(R07044) (23 APR 74)

REFERENCE DATA

SHEP = .0300 IN. INRP = 4.5" IN.
 LREP = .9000 IN. YRP = .0000 IN.
 SHEP = .0000 IN. ZRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 197/ 0 RM/L = 4.08 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMH	CLMH	CTH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	50.440	5.03030	10.00110	.20460	1.24340	.50670	.37940	.00000	.43440	.00000	.37940
.998	52.350	6.10300	10.42430	.19260	1.32540	.54550	.31030	.00000	.43530	.00000	.31030
.998	54.350	6.40110	10.94070	-.19320	1.13670	.60690	.22600	.00000	.43480	.00000	.22600
.998	56.360	6.69900	11.44420	-.03350	.93970	.67760	.12040	.00000	.43360	.00000	.12040
.998	58.360	6.97210	11.70440	-1.06210	.06620	.71050	.04460	.00000	.43390	.00000	.04460
.998	60.390	7.13350	12.01030	-1.40960	-.85040	.76360	-.02110	.00000	.43840	.00000	-.02110
.998	62.390	7.41600	12.22240	-1.54370	-1.39140	.76790	-.06250	.00000	.44290	.00000	-.06250
.998	64.390	7.69950	12.16170	-1.49410	-1.61560	.76160	-.11660	.00000	.45000	.00000	-.11660
.998	66.390	7.80350	12.17190	-1.21950	-1.50790	.76260	-.15050	.00000	.45410	.00000	-.15050
.998	68.390	7.92350	12.16590	-1.19960	-1.23190	.63530	-.16660	.00000	.45710	.00000	-.16660
.998	70.290	8.03010	11.98920	-1.15080	-.91000	.65640	-.24540	.00000	.46300	.00000	-.24540
.998	60.370	7.14480	11.01690	-1.52910	-1.02480	.76410	-.00660	.00000	.43860	.00000	-.00660
GRADIENT		.11427	.10229	-.07940	-.16124	.01694	-.03120	.00000	.00149	.00000	-.03120

RUN NO. 198/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CYH	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	50.440	7.65190	15.17450	-1.27430	.15400	.58620	.48240	.00000	.40690	.00000	.48240
.998	52.760	8.30980	15.00760	-1.31350	.39650	.63230	.43980	.00000	.41360	.00000	.43980
.998	54.740	8.66070	15.75200	-1.26410	.40550	.66440	.40430	.00000	.42130	.00000	.40430
.998	56.750	8.67670	15.84320	-1.26600	.32000	.66730	.36780	.00000	.42560	.00000	.36780
.998	58.740	9.06040	15.61740	-1.25240	.23460	.72420	.36360	.00000	.43050	.00000	.36360
.998	60.690	9.92970	14.29060	-1.19410	.32090	.72200	.41030	.00000	.44690	.00000	.41030
.998	62.630	8.90710	13.34380	-1.18170	.17140	.73050	.44340	.00000	.46360	.00000	.44340
.998	64.640	9.27350	13.24620	-1.16900	.03960	.74790	.42920	.00000	.47070	.00000	.42920
.998	66.600	9.36610	12.75810	-1.15970	-.03130	.76560	.40100	.00000	.47910	.00000	.40100
.998	68.590	9.46650	12.17020	-1.16230	-.07690	.77890	.39250	.00000	.48680	.00000	.39250
.998	70.470	9.64380	11.78410	-1.21500	-.03640	.79690	.38900	.00000	.49680	.00000	.38900
.998	60.690	8.93160	14.13000	-1.19410	.35000	.73090	.42860	.00000	.45120	.00000	.42860
GRADIENT		.07300	-.21637	.00677	-.02110	.00951	-.00173	.00000	.00483	.00000	-.00173



TABULATED SOURCE DATA, NSFC TWT 587

NSFC 587 (F44) TITAN III C SRM (HDETP)

(R07084) (23 APR 74)

DATE 11 JUL 74

REFERENCE DATA

SREP = .0366 SR. IN XMRP = 4.0330 IN.
LREP = .0000 IN. YMRP = .0000 IN.
BREP = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

BETA = .000 PHI = 229.000

RUN NO. 199/ 0 RM/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAS	XCP/L	CPB1	CAF
1.201	50.916	9.40890	13.94300	-.94340	.20000	.59210	.89940	.00000	.46620	.00000	.85940
1.201	52.610	9.80260	13.96300	-.87270	.26740	.60650	.90230	.00000	.47270	.00000	.80230
1.201	54.600	10.26240	14.13420	-.91980	.32400	.63030	.72730	.00000	.47690	.00000	.72730
1.201	56.610	10.50100	14.33480	-.99350	.30090	.63100	.66070	.00000	.48000	.00000	.66070
1.201	58.600	10.80450	14.37990	-1.04660	.14250	.64810	.60910	.00000	.48440	.00000	.60910
1.201	60.620	11.22950	14.42030	-1.08920	.03430	.64920	.57740	.00000	.48890	.00000	.57740
1.201	62.620	11.55430	14.33140	-1.09110	-.03270	.65200	.53220	.00000	.49450	.00000	.53220
1.201	64.610	11.66240	14.37610	-1.11320	-.02150	.66160	.48600	.00000	.49810	.00000	.48600
1.201	66.700	12.10950	14.13450	-1.13890	.02770	.67670	.49400	.00000	.50350	.00000	.49400
1.201	68.700	12.26260	13.76900	-1.12770	.08770	.68060	.42540	.00000	.50940	.00000	.42540
1.201	70.600	12.42310	13.59790	-1.14870	.10150	.69820	.38370	.00000	.51290	.00000	.38370
1.201	60.620	11.18320	14.24850	-1.08800	.04370	.65510	.58250	.00000	.49020	.00000	.58250
GRADIENT		-.15124	-.00941	-.01367	-.01350	.00474	-.02345	.00000	.00232	.00000	-.02345

RUN NO. 250/ 0 RM/L = 6.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAS	XCP/L	CPB1	CAF
1.944	50.780	8.01220	10.51150	-.85800	.16600	.49040	1.07180	.00000	.50930	.00000	1.07180
1.944	52.680	9.24900	10.63370	-.90950	.18620	.51940	.98820	.00000	.50320	.00000	.98820
1.944	54.730	9.71600	11.24310	-.96510	.19590	.54390	.95610	.00000	.50500	.00000	.95610
1.944	56.730	10.13640	11.47260	-1.00660	.22740	.56370	.92280	.00000	.50920	.00000	.92280
1.944	58.740	10.51260	11.67130	-1.04130	.25920	.59250	.89360	.00000	.51100	.00000	.89360
1.944	60.770	10.89700	11.78940	-1.08640	.27420	.61720	.86670	.00000	.51450	.00000	.86670
1.944	62.770	11.17390	11.79010	-1.13850	.30210	.64450	.83310	.00000	.51790	.00000	.83310
1.944	64.770	11.42060	11.79610	-1.17750	.34810	.67040	.80260	.00000	.52080	.00000	.80260
1.944	66.750	11.70840	11.95060	-1.23160	.39410	.69540	.77400	.00000	.52320	.00000	.77400
1.944	68.770	11.99970	11.98490	-1.27860	.40960	.71280	.72260	.00000	.52510	.00000	.72260
1.944	70.650	12.29620	12.01350	-1.30530	.38520	.72550	.66470	.00000	.52740	.00000	.66470
1.944	60.720	10.71340	11.47350	-1.07920	.27310	.61680	.85320	.00000	.51600	.00000	.85320
GRADIENT		.17140	.96827	-.02249	.01301	.01214	-.01656	.00000	.00140	.00000	-.01656

NSFC 507 (FA4) TITAN III C SRN (MDETP)

(897064) (23 APR 74)

REFERENCE DATA

SREP = .0300 IN. XMRP = 4.6330 IN.
 LMRP = .0000 IN. YMRP = .0000 IN.
 ZMRP = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 299/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	50.530	0.00090	9.00730	-.62310	.26330	.43640	1.17210	.00000	-.50900	.00000	1.17210
3.480	52.440	0.37780	9.32450	-.90470	.30660	.46690	1.13990	.00000	-.51060	.00000	1.13990
3.480	54.450	0.74020	9.63910	-.95900	.36130	.51150	1.11090	.00000	-.51160	.00000	1.11090
3.480	56.460	0.11720	10.00400	-1.03990	.43100	.54630	1.07360	.00000	-.51260	.00000	1.07360
3.480	58.470	9.52110	10.28480	-1.12990	.48600	.59640	1.04190	.00000	-.51460	.00000	1.04190
3.480	60.500	9.87080	10.44500	-1.18990	.49360	.63090	.99960	.00000	-.51750	.00000	.99960
3.480	62.500	10.15750	10.64020	-1.25630	.54190	.66740	.94090	.00000	-.51890	.00000	.94090
3.480	64.510	10.46440	10.91790	-1.31600	.62040	.69060	.89410	.00000	-.51940	.00000	.89410
3.480	66.520	10.79590	11.11740	-1.38270	.68060	.73600	.85060	.00000	-.52070	.00000	.85060
3.480	68.520	11.02860	11.19290	-1.44240	.69000	.76860	.80500	.00000	-.52300	.00000	.80500
3.480	70.400	11.23270	11.09220	-1.49480	.65160	.78460	.76820	.00000	-.52650	.00000	.76820
3.480	60.480	9.85420	10.41790	-1.18310	.49890	.66340	.99480	.00000	-.51770	.00000	.99480
GRADIENT		.16429	.11122	-.03387	.02188	.01809	-.02091	.00000	.00083	.00000	-.02091

RUN NO. 299/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.340	7.92180	0.97950	-.92460	.33850	.45190	1.20910	.00000	-.50800	.00000	1.20910
4.939	52.230	0.27543	9.17660	-.99210	.36630	.49650	1.23370	.00000	-.51110	.00000	1.23370
4.939	54.200	0.73065	9.70590	-1.06230	.41950	.50430	1.21340	.00000	-.51090	.00000	1.21340
4.939	56.260	9.00390	10.04810	-1.12880	.53950	.53290	1.17360	.00000	-.51150	.00000	1.17360
4.939	58.290	9.43730	10.33630	-1.22420	.62090	.58740	1.12870	.00000	-.51290	.00000	1.12870
4.939	60.290	9.78710	10.65470	-1.30730	.63500	.62530	1.05310	.00000	-.51370	.00000	1.05310
4.939	62.280	10.13590	10.84030	-1.37490	.70600	.68300	.99880	.00000	-.51490	.00000	.99880
4.939	64.300	10.31210	11.21690	-1.44290	.73290	.69550	.95170	.00000	-.51640	.00000	.95170
4.939	66.280	10.77140	11.28270	-1.51100	.68190	.70100	.88590	.00000	-.51890	.00000	.88590
4.939	68.300	11.09240	11.42760	-1.59090	.69650	.75840	.84230	.00000	-.52110	.00000	.84230
4.939	70.180	11.32410	11.41400	-1.59110	.63550	.77590	.78780	.00000	-.52390	.00000	.78780
4.939	60.270	9.78490	10.65130	-1.30650	.66490	.65270	1.07560	.00000	-.51370	.00000	1.07560
GRADIENT		.17279	.13146	-.03504	.01855	.01749	-.02599	.00000	.00071	.00000	-.02599



MSFC 507 (FAA) TITAN III C SRM (MDETP) (R0700S) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 223.000

REFERENCE DATA

BREF = .0300 80. IN YMRP = 4.6330 IN.
LREF = .9000 IN. YMRP = .0000 IN.
BREF = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 196/ 1 RM/L = 4.93 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CMW	CLWV	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.599	70.450	7.89540	11.48900	-1.19400	-.96150	.85530	-.10660	.00000	.48820	.00000	-.10660
.599	72.340	7.88210	11.19050	-1.14400	-.83990	.87550	-.15000	.00000	.47200	.00000	-.15000
.599	74.300	7.92220	10.71800	-1.12920	-.59840	.89660	-.16400	.00000	.48020	.00000	-.16400
.599	76.280	7.90430	9.96000	-1.07570	-.23660	.91370	-.12960	.00000	.49200	.00000	-.12960
.599	78.240	7.71050	8.53600	-1.07620	-.23210	.90630	-.00940	.00000	.51140	.00000	-.00940
.599	80.240	7.70220	7.59960	-1.07940	-.16680	.92190	.10000	.00000	.52730	.00000	.10000
.599	82.220	7.70120	6.91790	-1.10640	-.06590	.98060	.13000	.00000	.53760	.00000	.13000
.599	84.210	7.79590	6.43610	-1.16890	.04700	.97930	.12930	.00000	.54700	.00000	.12930
.599	86.190	7.82650	5.89340	-1.15740	.12140	.99770	.14400	.00000	.56630	.00000	.14400
.599	88.180	7.88630	5.42280	-1.15820	.17710	1.00490	.12500	.00000	.56440	.00000	.12500
.599	90.070	7.94410	5.01670	-1.23880	.30790	1.02540	.11350	.00000	.57150	.00000	.11350
.599	90.240	7.86390	7.53280	-1.12130	-.15160	.95100	.09970	.00000	.52710	.00000	.09970
GRADIENT		.00003	-.36187	-.00270	.05482	.00656	.01745	.00000	.00581	.00000	.01745

RUN NO. 195/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWV	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	70.630	9.47730	11.48040	-1.29680	-.02190	.82660	-.44630	.00000	.49820	.00000	-.44630
.901	72.510	9.61790	11.06190	-1.30850	-.05590	.83290	-.40480	.00000	.50560	.00000	-.40480
.901	74.470	9.82550	10.76320	-1.33080	.02120	.84910	-.34360	.00000	.51280	.00000	-.34360
.901	76.450	9.96140	10.38600	-1.32840	.08220	.86620	-.32000	.00000	.51950	.00000	-.32000
.901	78.430	10.07300	9.95070	-1.32510	.15720	.88210	-.30490	.00000	.52640	.00000	-.30490
.901	80.430	10.14310	9.51550	-1.31750	.20510	.89500	-.27090	.00000	.53270	.00000	-.27090
.901	82.420	10.24010	9.23370	-1.33580	.20540	.89880	-.23090	.00000	.53740	.00000	-.23090
.901	84.400	10.34400	8.93350	-1.37070	.17980	.90630	-.19240	.00000	.54220	.00000	-.19240
.901	86.360	10.36590	8.51090	-1.39880	.19900	.91310	-.15330	.00000	.54760	.00000	-.15330
.901	88.370	10.33060	8.21230	-1.38210	.24340	.91670	-.12250	.00000	.55260	.00000	-.12250
.901	90.290	10.34960	7.82460	-1.41320	.27760	.92790	-.09210	.00000	.55760	.00000	-.09210
.901	90.440	10.23200	9.56300	-1.29140	.19250	.86690	-.27040	.00000	.53320	.00000	-.27040
GRADIENT		.05328	-.18486	-.00541	.01562	.00517	-.01749	.00000	.00298	.00000	-.01749

WSPC 307 (PAA) TITAN III C 3RM (WBETP)

(R07003) (23 APR 74)

REFERENCE DATA

SREF = .0300 30. IN ZRMP = 4.6330 IN.
 LREF = .9000 IN. YRMP = .0000 IN.
 BREF = .9000 IN. ZRMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 225.000

RUN NO. 194/ 0 RM/L = 0.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	70.820	12.27240	13.35740	-1.15320	.06190	.71980	.47210	.00000	.51370	.00000	.47210
1.198	72.710	12.45310	13.11340	-1.19030	.05670	.72450	.44030	.00000	.51820	.00000	.44030
1.198	74.670	12.64830	12.80900	-1.20910	.10520	.74030	.41630	.00000	.52330	.00000	.41630
1.198	76.640	12.78990	12.47830	-1.21350	.05930	.74310	.38500	.00000	.52800	.00000	.38500
1.198	78.620	12.87860	12.15160	-1.19400	.12570	.75610	.34490	.00000	.53210	.00000	.34490
1.198	80.620	12.98190	11.79160	-1.22120	.13960	.76380	.32480	.00000	.53650	.00000	.32480
1.198	82.610	13.13080	11.56320	-1.23420	.16170	.77790	.30590	.00000	.54010	.00000	.30590
1.198	84.590	13.28920	11.32150	-1.24890	.19050	.77950	.28950	.00000	.54370	.00000	.28950
1.198	86.550	13.38970	10.94600	-1.25910	.29970	.79250	.29700	.00000	.54900	.00000	.29700
1.198	88.500	13.39410	10.56470	-1.32430	.26120	.78990	.26120	.00000	.55160	.00000	.26120
1.198	90.430	13.37310	10.22500	-1.33790	.28830	.79340	.22260	.00000	.55470	.00000	.22260
1.198	90.620	12.95680	11.78420	-1.21610	.13890	.76070	.32150	.00000	.53660	.00000	.32150
GRADIENT		.05869	-.15826	-.00842	.01306	.00399	-.01176	.00000	.00200	.00000	-.01176

RUN NO. 251/ 0 RM/L = 0.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.985	70.790	11.93680	11.57600	-1.30600	.39440	.73090	.70060	.00000	.52870	.00000	.70060
1.985	72.680	12.17540	11.50710	-1.33890	.40250	.73840	.66260	.00000	.53190	.00000	.66260
1.985	74.660	12.32310	11.26340	-1.35390	.43420	.75630	.62420	.00000	.53560	.00000	.62420
1.985	76.650	12.58450	11.22000	-1.39020	.45730	.77680	.58960	.00000	.53360	.00000	.58960
1.985	78.650	12.77000	11.14080	-1.42100	.49720	.79390	.54940	.00000	.54110	.00000	.54940
1.985	80.660	12.87230	10.93380	-1.47170	.52210	.81190	.49550	.00000	.54380	.00000	.49550
1.985	82.630	12.99440	10.78660	-1.51130	.52870	.81980	.44170	.00000	.54640	.00000	.44170
1.985	84.630	13.12590	10.62610	-1.54490	.52760	.83700	.39330	.00000	.54900	.00000	.39330
1.985	86.620	13.19170	10.49750	-1.58490	.51030	.85040	.32810	.00000	.55080	.00000	.32810
1.985	88.610	13.21020	10.36220	-1.58650	.50800	.85560	.25730	.00000	.55220	.00000	.25730
1.985	90.490	13.20540	10.29750	-1.61600	.52190	.87010	.19050	.00000	.55340	.00000	.19050
1.985	90.630	12.82070	10.94350	-1.46450	.42360	.81640	.49260	.00000	.54340	.00000	.49260
GRADIENT		.06785	-.06794	-.01639	.00678	.00731	-.02530	.00000	.00126	.00000	-.02530



TAL-LATED SOURCE DATA, NSFC TWT 587

(1897065) (23 APR 74)

DATE 11 JUL 73

NSFC 987(FA4) TITAN III C DRG (IMBETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 IN XREF = 4.6330 IN.
 LREF = .9000 IN. YREF = .0000 IN.
 SREF = .9000 IN. ZREF = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 225.000

RUN NO. 301/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CBM	CLMN	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.499	70.500	11.21350	10.97910	-1.91100	.68230	.74010	.61640	.00000	.52760	.00000	.81640
3.499	72.440	11.47030	10.93530	-1.54720	.60460	.76790	.77320	.00000	.53080	.00000	.77320
3.499	74.430	11.71120	10.87860	-1.57500	.53690	.80540	.73230	.00000	.53390	.00000	.73230
3.499	76.450	11.88830	10.80710	-1.58900	.43100	.82290	.67480	.00000	.53640	.00000	.67480
3.499	78.450	12.09100	10.76270	-1.62370	.39990	.85430	.63180	.00000	.53460	.00000	.63180
3.499	80.480	12.22600	10.58360	-1.66400	.37550	.88660	.58660	.00000	.54190	.00000	.58660
3.499	82.430	12.39030	10.46690	-1.69630	.35260	.91970	.50970	.00000	.54450	.00000	.50970
3.499	84.440	12.49320	10.30670	-1.71060	.41060	.95050	.43900	.00000	.54700	.00000	.43900
3.499	86.440	12.55820	10.20370	-1.72640	.42700	.98220	.38960	.00000	.54660	.00000	.38960
3.499	88.430	12.58330	10.05620	-1.72900	.43270	.99620	.28740	.00000	.55030	.00000	.28740
3.499	90.300	12.59660	9.92610	-1.73900	.46660	.99330	.22480	.00000	.55170	.00000	.22480
3.499	90.440	12.22920	10.61410	-1.65670	.37870	.87730	.57380	.00000	.54160	.00000	.57380
GRADIENT		.07051	-.05934	-.01207	-.00934	.00795	-.03012	.00000	.00123	.00000	-.03012

RUN NO. 300/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CBM	CLMN	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	70.340	11.33990	11.09710	-1.64320	.61480	.77490	.94600	.00000	.52780	.00000	.90600
4.939	72.220	11.56240	10.97220	-1.67090	.49450	.79000	.85110	.00000	.53140	.00000	.85110
4.939	74.240	11.76220	11.02700	-1.69730	.43220	.84170	.81060	.00000	.53260	.00000	.81060
4.939	76.240	12.03020	11.08900	-1.73920	.30960	.81230	.74310	.00000	.53500	.00000	.74310
4.939	78.260	12.22280	10.99950	-1.74990	.30030	.85520	.68040	.00000	.53760	.00000	.68040
4.939	80.260	12.39980	10.87950	-1.81530	.31390	.89150	.62040	.00000	.54040	.00000	.62040
4.939	82.250	12.54440	10.80140	-1.84130	.26450	.89130	.54410	.00000	.54230	.00000	.54410
4.939	84.250	12.62920	10.73940	-1.83780	.31360	.89590	.46610	.00000	.54360	.00000	.46610
4.939	86.230	12.68480	10.71710	-1.86360	.32560	.90040	.38410	.00000	.54450	.00000	.38410
4.939	88.250	12.69930	10.65690	-1.87550	.37960	.91550	.29290	.00000	.54520	.00000	.29290
4.939	90.130	12.65960	10.51070	-1.87330	.38960	.88260	.20950	.00000	.54640	.00000	.20950
4.939	90.240	12.42850	10.93150	-1.81530	.32660	.90110	.62990	.00000	.54020	.00000	.62990
GRADIENT		.04966	-.02745	-.01259	-.00821	.00649	-.03526	.00000	.00094	.00000	-.03526

NSFC 507(744) TITAN III C SRM (MSETP)

(R97000) (23 APR 74)

REFERENCE DATA

XREF = .0369 IN YRSP = 4.0339 IN.
 LREF = .9000 IN. YRSP = .0000 IN.
 BREF = .9000 IN. ZRSP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 225.000

PARAMETRIC DATA

RUN NO. 219/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.999	109.000	7.37860	.31100	-1.30710	-.25090	.08310	-.30430	.00000	.64610	.00000	-.30430
.999	107.710	7.42190	.78110	-1.29080	-.23960	.08310	-.23770	.00000	.63920	.00000	-.23770
.999	105.720	7.52060	1.22040	-1.28000	-.23020	.08850	-.16390	.00000	.63090	.00000	-.16390
.999	103.730	7.61060	1.68720	-1.26450	-.23090	.09090	-.04860	.00000	.62340	.00000	-.04860
.999	101.740	7.70770	2.08410	-1.24950	-.19250	.09910	.05060	.00000	.61740	.00000	-.05060
.999	99.750	7.80900	2.44800	-1.38600	-.07690	.09690	.17890	.00000	.61200	.00000	.17890
.999	97.730	7.91410	2.85800	-1.43220	-.05460	.09000	.27950	.00000	.60560	.00000	.27950
.999	95.750	7.94200	3.28990	-1.47920	-.04370	.04360	.33770	.00000	.59910	.00000	.33770
.999	93.760	8.03960	3.61310	-1.50720	-.13450	.01420	.32440	.00000	.59140	.00000	.32440
.999	91.780	7.96500	4.43370	-1.47270	-.46920	.92770	.27890	.00000	.58120	.00000	.27890
.999	89.910	8.08690	4.94580	-1.47930	-.62140	.91340	.26150	.00000	.57410	.00000	.26150
.999	99.750	7.82950	2.48270	-1.38660	.00290	.93610	.17370	.00000	.61130	.00000	.17370
GRADIENT		-.03792	-.22716	.01305	.00840	-.00229	-.03360	.00000	.00352	.00000	-.03360

RUN NO. 220/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.900	109.440	9.31210	2.18140	-.03730	.40420	.77670	-.27440	.00000	.62180	.00000	-.27440
.900	107.990	9.44290	2.59180	-.08160	.44090	.76010	-.15430	.00000	.61670	.00000	-.15430
.900	105.960	9.67060	3.10640	-.90040	.42010	.60190	-.02650	.00000	.61080	.00000	-.02650
.900	103.980	9.78060	3.49320	-.92110	.45890	.60900	.09220	.00000	.60630	.00000	.09220
.900	101.990	9.99700	4.00160	-.93490	.45010	.60960	.19220	.00000	.60080	.00000	.19220
.900	99.990	10.10060	4.49840	-.94290	.43650	.61160	.24020	.00000	.59310	.00000	.24020
.900	97.630	10.26900	5.10170	-1.01030	.44650	.61940	.23900	.00000	.58860	.00000	.23900
.900	95.650	10.35190	5.71260	-1.01690	.41690	.60850	.21520	.00000	.58160	.00000	.21520
.900	93.680	10.39230	6.26880	-.99990	.40160	.61960	.22920	.00000	.57510	.00000	.22920
.900	91.680	10.39940	6.92710	-.99910	.41640	.61430	.24180	.00000	.56940	.00000	.24180
.900	89.620	10.59410	7.37420	-.93560	.38600	.60220	.26740	.00000	.56340	.00000	.26740
.900	99.610	10.19800	4.60730	-.97010	.47540	.61530	.23300	.00000	.59430	.00000	.23300
GRADIENT		-.08695	-.26675	.00622	.00134	-.00146	-.02470	.00000	.00301	.00000	-.02470



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, NSFC TWT 587

NSFC 587 (TAA) TITAN III C SRM (HDETP)

DATE 11 JUL 74

(097000) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 225.000

REFERENCE DATA

REF = .0300 IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 BREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

RUN NO. 221/ 0 RIN/L = 0.01 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMM	CLMM	CYN	CYMH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.194	109.300	11.02190	5.40600	-76450	.01000	.07160	-.58230	.00000	-.59270	.00000	-.58230
1.194	107.490	12.05010	5.00000	-74660	.04590	.60270	-.43650	.00000	-.58970	.00000	-.43650
1.194	105.990	12.30900	6.34100	-77770	.05600	.00060	-.31600	.00000	-.56630	.00000	-.31600
1.194	103.900	12.51070	6.00550	-76130	.70340	.69090	-.21040	.00000	-.58270	.00000	-.21040
1.194	101.940	12.79000	7.46330	-78200	.72660	.09640	-.11050	.00000	-.57770	.00000	-.11050
1.194	99.970	12.93000	6.20330	-73440	.74570	.69650	-.02050	.00000	-.57130	.00000	-.02050
1.194	97.990	13.12170	6.79310	-74700	.70390	.71150	.06960	.00000	-.56670	.00000	.06960
1.194	95.990	13.23090	9.16020	-74330	.69490	.70300	.16000	.00000	-.56390	.00000	.16000
1.194	93.620	13.39110	9.55370	-73050	.71320	.70040	.23600	.00000	-.56120	.00000	.23600
1.194	91.620	13.50760	10.03050	-71710	.66630	.69630	.30040	.00000	-.55740	.00000	.30040
1.194	89.760	13.62300	10.42640	-73940	.61150	.60030	.34550	.00000	-.55460	.00000	.34550
1.194	89.970	12.93910	8.10740	-74960	.72940	.69780	-.02450	.00000	-.57140	.00000	-.02450
1.194	GRADIENT	-.09121	-.26253	-.00230	-.00002	-.00104	-.04648	.00000	.00204	.00000	-.04648

RUN NO. 256/ 0 RIN/L = 0.09 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMM	CLMM	CYN	CYMH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.954	109.490	11.02370	7.15100	-93720	.59520	.69430	-.59070	.00000	-.57360	.00000	-.59070
1.954	107.500	11.04640	7.40330	-97050	.61000	.11990	-.47500	.00000	-.57150	.00000	-.47500
1.954	105.970	12.09170	7.64320	-1.01430	.66050	.73000	-.37730	.00000	-.56940	.00000	-.37730
1.954	103.900	12.32250	6.22390	-1.02430	.69630	.73070	-.27400	.00000	-.56700	.00000	-.27400
1.954	101.900	12.55090	6.56320	-1.04040	.68600	.75650	-.16900	.00000	-.56510	.00000	-.16900
1.954	99.900	12.71920	6.44160	-1.06090	.70090	.76000	-.06480	.00000	-.56350	.00000	-.06480
1.954	97.970	12.86190	9.11720	-1.07050	.71080	.77980	.03070	.00000	-.56160	.00000	.03070
1.954	95.900	12.99760	9.37790	-1.07350	.72370	.77350	.11450	.00000	-.56020	.00000	.11450
1.954	93.900	13.17330	9.67320	-1.08360	.73250	.78580	.19340	.00000	-.55830	.00000	.19340
1.954	91.600	13.23030	9.94190	-1.06290	.72340	.78420	.28060	.00000	-.55640	.00000	.28060
1.954	89.730	13.32440	10.20660	-1.04500	.72440	.78030	.33340	.00000	-.55450	.00000	.33340
1.954	89.990	12.60070	8.05000	-1.06150	.69790	.76190	-.00000	.00000	-.56300	.00000	-.00000
1.954	GRADIENT	-.00067	-.19341	.00360	-.00615	-.00441	-.04710	.00000	.00094	.00000	-.04710

MAFPC 907 (74A) TITAN III C 98M (MBC2P)

(R07066) (23 APR 74)

REFERENCE DATA

REF = .0300 IN XIMP = 4.6330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 RREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 223.000

RUN NO. 2027 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CTN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	109.600	11.00400	6.99970	-1.14750	.43840	.71710	-.50250	.00000	.37100	.00000	-.50250
3.400	107.720	11.25150	7.32140	-1.17790	.47740	.73130	-.40750	.00000	.56910	.00000	-.40750
3.400	105.700	11.40400	7.70080	-1.20270	.48640	.75940	-.30490	.00000	.56640	.00000	-.30490
3.400	103.710	11.60110	8.12010	-1.22620	.59300	.77980	-.29500	.00000	.56300	.00000	-.29500
3.400	101.710	11.92200	8.42000	-1.34060	.70350	.77560	-.20350	.00000	.56210	.00000	-.20350
3.400	99.700	12.13600	8.72620	-1.33130	.66100	.78440	-.09570	.00000	.56050	.00000	-.09570
3.400	97.720	12.25140	9.01030	-1.39730	.65640	.79120	-.00450	.00000	.55830	.00000	-.00450
3.400	95.730	12.37640	9.27500	-1.37600	.64500	.79940	.08460	.00000	.55660	.00000	.08460
3.400	93.740	12.47700	9.50990	-1.37940	.60950	.80550	.17670	.00000	.55420	.00000	.17670
3.400	91.720	12.50000	9.82290	-1.37650	.62500	.79590	.25460	.00000	.55270	.00000	.25460
3.400	89.890	12.64360	10.00910	-1.37410	.67530	.79440	.33700	.00000	.55130	.00000	.33700
3.400	89.710	12.10120	8.60840	-1.33490	.65750	.76240	-.10340	.00000	.56140	.00000	-.10340
GRADIENT		-.00349	-.15376	.01222	-.01006	-.00304	-.04673	.00000	.00100	.00000	-.04673

RUN NO. 2037 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CTN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	109.730	10.94530	7.37090	-1.21150	.34480	.69460	-.61310	.00000	.56620	.00000	-.61310
4.959	107.850	11.20200	7.75930	-1.21750	.37450	.73240	-.51040	.00000	.56300	.00000	-.51040
4.959	105.930	11.40490	8.09350	-1.20200	.46320	.72510	-.43490	.00000	.56230	.00000	-.43490
4.959	103.930	11.67460	8.40930	-1.35080	.51620	.77000	-.32040	.00000	.56030	.00000	-.32040
4.959	101.930	11.89760	8.65160	-1.40960	.62940	.78590	-.21450	.00000	.55940	.00000	-.21450
4.959	99.930	12.09740	8.87900	-1.44230	.65000	.77560	-.10390	.00000	.55860	.00000	-.10390
4.959	97.930	12.26730	9.09070	-1.44420	.62770	.81110	-.00050	.00000	.55770	.00000	-.00050
4.959	95.910	12.30200	9.33500	-1.43200	.50000	.82210	.09310	.00000	.55610	.00000	.09310
4.959	93.930	12.32160	9.43910	-1.46370	.64050	.80900	.19060	.00000	.55610	.00000	.19060
4.959	91.910	12.37320	9.61920	-1.48020	.64020	.81780	.20760	.00000	.55460	.00000	.20760
4.959	89.930	12.60690	9.63770	-1.48700	.66300	.80750	.36350	.00000	.55470	.00000	.36350
4.959	89.930	12.04100	8.85100	-1.42030	.68090	.76490	-.11370	.00000	.55840	.00000	-.11370
GRADIENT		-.00524	-.11439	.01420	-.01529	-.00507	-.05039	.00000	.00056	.00000	-.05039



TABULATED SOURCE DATA, NSFC TWT 587

DATE 11 JUL 74

(1897067) (23 APR 74)

NSFC 987 (FAA) TITAN III C 3RM (MSETP)

PARAMETRIC DATA

BETA = .000 PHI = 225.000

REFERENCE DATA

REF = .6300 50. IN XMRP = 4.6300 IN.
LREF = .9000 50. IN YMRP = .0000 IN.
ORF = .9000 50. IN ZMRP = .0000 IN.
SCALE = .0574

RUN NO. 216/ 0 RM/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.370	6.00000	-1.57690	-1.40600	-1.34820	.57690	-1.04220	.00000	.68470	.00000	-1.04220
.998	127.660	6.21290	-1.59270	-1.42180	-1.04940	.62040	-.97430	.00000	.68390	.00000	-.97430
.998	125.660	6.40760	-1.51140	-1.29610	-.71810	.64190	-.80950	.00000	.68130	.00000	-.80950
.998	123.660	6.52720	-1.46720	-1.13630	-.77110	.66890	-.79770	.00000	.67990	.00000	-.79770
.998	121.660	6.68530	-1.32940	-1.04610	-.64490	.70090	-.69770	.00000	.67660	.00000	-.69770
.998	119.660	6.97830	-1.10900	-1.11610	-.56020	.74300	-.60140	.00000	.67190	.00000	-.60140
.998	117.660	7.04390	-.90720	-1.10090	-.53930	.74710	-.50110	.00000	.66780	.00000	-.50110
.998	115.660	7.13370	-.66170	-1.24590	-.53960	.77730	-.41950	.00000	.66320	.00000	-.41950
.998	113.670	7.21590	-.43410	-1.26440	-.50260	.81680	-.33110	.00000	.65910	.00000	-.33110
.998	111.650	7.31590	-.05950	-1.27640	-.39690	.82590	-.27620	.00000	.65250	.00000	-.27620
.998	109.780	7.43470	.39910	-1.29500	-.30630	.83440	-.19830	.00600	.64540	.00000	-.19830
.998	119.660	6.66200	-1.10560	-1.11500	-.53620	.72170	-.61360	.00000	.67190	.00000	-.61360
GRADIENT		-.07102	-.09621	-.00593	-.04151	-.01323	-.04404	.00000	.00197	.00000	-.04404

RUN NO. 217/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
.903	129.380	7.15680	-1.40170	-.89100	-.35070	-.57620	-1.21030	.00000	.67630	.00000	-1.21030
.903	127.490	7.42290	-1.27650	-.84330	-.25960	.59970	-1.21030	.00000	.67320	.00000	-1.21030
.903	125.460	7.59460	-.96750	-.84720	-.19210	.62170	-1.10680	.00000	.66790	.00000	-1.10680
.903	123.460	7.89470	-.60950	-.86130	-.13020	.64500	-1.00510	.00000	.66120	.00000	-1.00510
.903	121.470	8.08000	-.24510	-.86680	-.05610	.66330	-.89470	.00000	.65530	.00000	-.89470
.903	119.450	8.32900	.19590	-.81950	.13960	.68550	-.79330	.00000	.64840	.00000	-.79330
.903	117.460	8.61140	.61550	-.78230	.26000	.69840	-.69610	.00000	.64240	.00000	-.69610
.903	115.490	8.82080	.97980	-.77560	.32930	.71720	-.56950	.00000	.63740	.00000	-.56950
.903	113.490	9.18010	1.42280	-.77030	.37070	.73040	-.45090	.00000	.63190	.00000	-.45090
.903	111.480	9.33590	1.79640	-.79390	.37260	.74380	-.33080	.00000	.62710	.00000	-.33080
.903	109.610	9.49040	2.21220	-.82200	.40760	.76040	-.21750	.00000	.62200	.00000	-.21750
.903	119.470	8.42850	-.25410	-.78590	.20610	.87340	-.80970	.00000	.64770	.00000	-.80970
GRADIENT		-.12107	-.19647	-.00449	-.04216	-.00912	-.05436	.00000	.00286	.00000	-.05436

WSPC 507 (FAA) TITAN III C SWM (MNETP)

(R07007) (23 APR 74)

REFERENCE DATA

BREF = .0300 90. IN ZMRP = 4.0330 IN.
 LBREF = .0000 IN. YMRP = .0000 IN.
 SBREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 223.000

PARAMETRIC DATA

RUN NO 216/ 0 RM/L = 0.52 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	129.320	0.09010	1.31020	-.05030	.32090	.31500	-1.50710	.00000	.03220	.00000	-1.50710
1.197	127.420	0.99330	1.56710	-.76740	.40750	.53200	-1.41340	.00000	.02940	.00000	-1.41340
1.197	129.420	9.39070	1.90240	-.72460	.47720	.59650	-1.32160	.00000	.02470	.00000	-1.32160
1.197	123.420	9.73000	2.44910	-.06610	.34220	.56500	-1.23160	.00000	.01960	.00000	-1.23160
1.197	121.420	10.09390	2.85080	-.00070	.55030	.59770	-1.12780	.00000	.01600	.00000	-1.12780
1.197	119.420	10.42720	3.10830	-.09400	.52360	.60100	-1.03570	.00000	.01200	.00000	-1.03570
1.197	117.420	10.70700	3.40620	-.71390	.52040	.62190	-.92290	.00000	.01030	.00000	-.92290
1.197	115.430	11.04300	3.99790	-.72000	.51630	.63500	-.81790	.00000	.00570	.00000	-.81790
1.197	113.430	11.33030	4.39470	-.73410	.53540	.63290	-.70080	.00000	.00240	.00000	-.70080
1.197	111.420	11.64120	4.63700	-.72750	.59750	.65460	-.59740	.00000	.59690	.00000	-.59740
1.197	109.590	11.86650	5.24910	-.72800	.60640	.65910	-.49060	.00000	.59550	.00000	-.49060
1.197	119.420	10.41900	3.24790	-.69210	.51500	.61260	-1.02760	.00000	.61200	.00000	-1.02760
GRADIENT		-.16393	-.19984	-.00236	-.01190	-.00764	-.05179	.00000	.00186	.00000	-.05179

RUN NO. 257/ 0 RM/L = 6.91 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.944	129.440	0.20040	3.52640	-.50640	.29970	.46770	-1.56390	.00000	.59730	.00000	-1.56390
1.944	127.540	0.67110	3.97050	-.60440	.33100	.49000	-1.48390	.00000	.59350	.00000	-1.48390
1.944	125.530	9.07940	4.34950	-.65320	.35210	.51500	-1.39980	.00000	.59080	.00000	-1.39980
1.944	123.520	9.52840	4.65330	-.69610	.41450	.54110	-1.31720	.00000	.58970	.00000	-1.31720
1.944	121.510	9.94140	5.00640	-.73400	.43410	.57350	-1.21510	.00000	.58770	.00000	-1.21510
1.944	119.400	10.33690	5.35730	-.77310	.46910	.60070	-1.10430	.00000	.58590	.00000	-1.10430
1.944	117.500	10.66700	5.74810	-.82910	.49770	.61440	-.99460	.00000	.58330	.00000	-.99460
1.944	115.400	11.04610	6.12700	-.85990	.51870	.64610	-.87670	.00000	.58130	.00000	-.87670
1.944	113.400	11.33760	6.46240	-.88640	.55970	.66120	-.76700	.00000	.57930	.00000	-.76700
1.944	111.400	11.62350	6.79890	-.91700	.56270	.69160	-.64970	.00000	.57740	.00000	-.64970
1.944	109.610	11.91360	7.14160	-.93970	.59730	.71000	-.54350	.00000	.57560	.00000	-.54350
1.944	119.520	10.10330	3.40700	-.77200	.47010	.58600	-1.09790	.00000	.58430	.00000	-1.09790
GRADIENT		-.18479	-.17946	-.01069	-.01507	-.01232	-.05208	.00000	.00103	.00000	-.05208



TABULATED SOURCE DATA, MSFC TWT 987

DATE 11 JUL 74

(R07007) (23 APR 74)

MSFC 987 (FA4) TITAN III C SRM (MBETP)

PARAMETRIC DATA

REFERENCE DATA

BREF = .6300 IN XIMP = 4.0330 IN.
 LBEP = .9000 IN. YIMP = .5600 IN.
 DBEP = .9020 IN. ZIMP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 225.000

RUN NO. 285/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	129.800	7.63320	3.80460	-.63160	-.02690	.43190	-1.55390	.00000	.58640	.00000	-1.55390
3.400	127.710	9.00550	4.00020	-.70140	-.01960	.48470	-1.44790	.00000	.58700	.00000	-1.44790
3.400	125.890	8.41970	4.44820	-.75630	-.06130	.49400	-1.34440	.00000	.58460	.00000	-1.34440
3.400	123.800	9.79840	4.88590	-.80740	-.11790	.51260	-1.23930	.00000	.58410	.00000	-1.23930
3.400	121.800	9.19960	5.04130	-.86460	-.17040	.54130	-1.13920	.00000	.58160	.00000	-1.13920
3.400	119.896	9.49970	5.31580	-.94110	-.24730	.58140	-1.04110	.00000	.58070	.00000	-1.04110
3.400	117.870	9.83360	5.55860	-.99690	-.31420	.58690	-.92830	.00000	.57990	.00000	-.92830
3.400	115.870	10.17160	5.86010	-1.03410	-.39400	.60410	-.83100	.00000	.57860	.00000	-.83100
3.400	113.870	10.47230	6.21020	-1.09790	-.42850	.63070	-.72910	.00000	.57640	.00000	-.72910
3.400	111.850	10.73370	6.60570	-1.12300	-.43570	.66640	-.61950	.00000	.57370	.00000	-.61950
3.400	109.770	11.00000	6.95570	-1.14730	-.47150	.68810	-.52890	.00000	.57150	.00000	-.52890
3.400	112.870	9.46230	5.29500	-.94030	-.23240	.52580	-1.04500	.00000	.58060	.00000	-1.04500
GRADIENT		-.17043	-.15493	.02646	-.02718	-.01275	-.05152	.00000	.00030	.00000	-.05152

RUN NO. 284/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
4.959	129.720	7.50730	4.28790	-.68980	-.07320	.43030	-1.62370	.00000	.57920	.00000	-1.62370
4.959	127.830	7.89990	4.52280	-.75090	-.02920	.45220	-1.51630	.00000	.57900	.00000	-1.51630
4.959	125.810	8.31980	4.80240	-.82680	.00680	.47500	-1.40510	.00000	.57840	.00000	-1.40510
4.959	123.810	8.71280	5.06870	-.87390	.04420	.52190	-1.28950	.00000	.57780	.00000	-1.28950
4.959	121.790	9.07780	5.41300	-.92180	.06530	.55350	-1.15930	.00000	.57600	.00000	-1.15930
4.959	119.780	9.48990	5.67930	-.98430	.14010	.59070	-1.05480	.00000	.57560	.00000	-1.05480
4.959	117.800	9.83280	5.93030	-1.06090	.20660	.59250	-.94170	.00000	.57510	.00000	-.94170
4.959	115.800	10.17060	6.23100	-1.09310	.28110	.61060	-.82890	.00000	.57390	.00000	-.82890
4.959	113.800	10.50260	6.55790	-1.13790	.31040	.64980	-.71550	.00000	.57240	.00000	-.71550
4.959	111.780	10.81590	6.90840	-1.17810	.37780	.67650	-.62080	.00000	.57060	.00000	-.62080
4.959	109.900	11.03980	7.21010	-1.21090	.37720	.71790	-.52200	.00000	.56880	.00000	-.52200
4.959	119.850	9.41220	5.85010	-.96990	.16230	.55340	-1.05450	.00000	.57550	.00000	-1.05450
GRADIENT		-.18031	-.14708	.02684	-.02445	-.01402	-.05611	.00000	.00051	.00000	-.05611

WSPC 907(744) TITAN III C SRN (MDETP)

(097008) (23 APR 74)

REFERENCE DATA

SREF = .0300 90. IN WMP = 4.6330 IN.
 LREF = .0000 IN. YMP = .0000 IN.
 BREF = .9000 IN. ZMP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 223.000

PARAMETRIC DATA

RUN NO. 02/ 0 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	148.530	4.95430	-1.27220	-4.0760	-33600	.34000	-2.00080	.31270	.68400	-.31270	-2.31390
1.197	148.520	5.93480	-.95080	-4.2740	-.40080	.37030	-1.96420	.30700	.67320	-.30700	-2.27130
1.197	144.400	6.25370	-.41720	-.36440	-.76040	.39230	-1.93290	.34340	.65990	-.34340	-2.29830
1.197	142.300	6.86800	-.07670	-.40320	-.77160	.42900	-1.90030	.36370	.65010	-.36370	-2.26400
1.197	140.220	7.31470	-.13970	-.46730	-.19600	.44960	-1.81820	.33400	.64910	-.33400	-2.15220
1.197	138.110	7.74310	-.18140	-.56630	-.26420	.47540	-1.73390	.32100	.64830	-.32100	-2.05970
1.197	135.990	8.33050	-.62020	-.69540	-.56320	.50190	-1.65440	.30470	.64210	-.30470	-1.95910
1.197	133.920	8.85320	-.47120	-.75490	-.59010	.51430	-1.56830	.30540	.64460	-.30540	-1.87370
1.197	131.870	9.44460	-.38030	-.77640	-.56280	.54040	-1.49410	.32310	.64600	-.32310	-1.81720
1.197	129.780	9.29170	-.32110	-.75030	-.54790	.57220	-1.42020	.32660	.64440	-.32660	-1.74880
1.197	127.800	9.58430	-.74540	-.75360	-.54760	.58100	-1.32370	.33390	.64160	-.33390	-1.69760
1.197	126.100	7.73090	-.19970	-.58730	-.29920	.48160	-1.72140	.30560	.64820	-.30560	-2.02700
GRADIENT		-.22194	-.08598	.02281	-.06851	-.01169	-.03387	.00090	.00169	-.00090	-.03439

RUN NO. 59/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	149.190	3.92190	1.09070	-.16670	-.04080	.15180	-2.13700	-.01160	.61630	.01160	-2.12540
3.400	147.200	4.28860	1.33730	-.18870	-.02350	.17610	-2.12790	-.02180	.61200	.02180	-2.10680
3.400	145.190	4.75090	1.63630	-.22380	-.01760	.19390	-2.09830	-.03610	.60770	.03610	-2.06210
3.400	143.090	5.12130	1.86610	-.27060	-.02350	.20610	-2.06570	-.05070	.60540	.05070	-2.01490
3.400	141.030	5.54990	2.12960	-.31120	-.03850	.24840	-2.02130	-.03050	.60290	.03050	-1.97080
3.400	138.980	5.93990	2.35920	-.35640	-.03660	.27470	-1.94920	-.03200	.60120	.03200	-1.89710
3.400	136.920	6.34060	2.57920	-.43060	-.06230	.30050	-1.86510	-.03740	.60000	.03740	-1.85760
3.400	134.870	6.75480	2.82060	-.49030	-.08080	.33640	-1.79320	-.06330	.59860	.06330	-1.72780
3.400	132.830	7.17020	3.07620	-.54350	-.10360	.35020	-1.71890	-.06680	.59720	.06680	-1.55200
3.400	130.790	7.58410	3.30450	-.60430	-.08100	.36600	-1.61290	-.08960	.59630	.08960	-1.52280
3.400	128.780	7.95950	3.52650	-.66500	-.06460	.42990	-1.50130	-.11900	.59540	.11900	-1.38220
3.400	126.900	5.97440	2.34580	-.35850	-.02390	.25140	-1.99020	-.06690	.60190	.06690	-1.88120
GRADIENT		-.19873	-.11669	.02319	.00326	-.01336	-.03145	.00416	.00096	-.00416	-.03561



DATE 11 JUL 74
TABULATED SOURCE DATA, MSFC TWT 307
MSFC 307(P/A4) TITAN II: C SRM (MBETP)

(R07009) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PNI = 223.000

REFERENCE DATA

BREF = .6300 34. IN XMRP = 4.6330 IN.
LREF = .9000 IN. YMRP = .0000 IN.
BREF = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 76/ 0 NM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPMA	CMN	CLMM	CYM	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	169.990	.48200	-.02116	-.07210	-.04400	.03900	-1.19270	-.09200	.00710	.09200	-1.06070
.000	167.870	.61340	-.95070	-.09320	-.02320	.04700	-1.21810	-.07200	.04700	.07200	-1.14340
.000	165.840	.76040	-.94670	-.08200	-.00780	.03600	-1.30430	-.05930	.00910	.05900	-1.24460
.000	163.840	.91320	-.95770	-.14620	-.20220	.06330	-1.35700	-.04170	.78420	.04170	-1.31320
.000	161.840	1.12300	-.96950	-.22700	-.51770	.10420	-1.38160	-.01650	.76290	.01650	-1.36900
.000	159.500	1.37780	-1.08140	-.33190	-.66430	.10750	-1.38850	-.01220	.75080	.01220	-1.37420
.000	157.550	1.66430	-1.09250	-.68940	-.94460	.15100	-1.36410	-.01390	.73150	.01390	-1.35020
.000	155.500	1.99400	-.95350	-1.04760	-.92180	.18160	-1.34920	.00190	.71260	-.00190	-1.34720
.000	153.520	2.26450	-.83360	-1.12940	-.89930	.23360	-1.32130	.00900	.69810	-.00900	-1.33030
.000	151.470	2.58340	-.71890	-.99620	-1.03500	.26070	-1.30900	.01960	.68672	-.01960	-1.32476
.000	149.510	2.89830	-.74130	-.94160	-1.20500	.28760	-1.29170	.04630	.68300	-.04630	-1.33005
.000	159.590	1.38090	-1.03900	-.32230	-.70400	.09720	-1.36370	-.01430	.74672	.01400	-1.36970
GRADIENT	-.12247	-.00728	.06189	.06600	-.01339	-.00471	-.00610	.00931	.00931	.00810	-.01082

RUN NO. 77/ 0 NM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPMA	CMN	CLMM	CYM	CYNN	CBL	CA	CAB	XCP/L	CPB1	CAF
.901	169.940	.56590	-.55250	.09450	-.14990	.03160	-1.38190	-.03630	.77500	.03090	-1.34340
.901	167.600	.71250	-.69620	-.03300	-.19290	.09320	-1.45230	-.02360	.75950	.02360	-1.42850
.901	165.540	.90920	-.76320	-.06430	-.24750	.07650	-1.51520	-.00080	.75780	.00080	-1.50630
.901	163.520	1.09260	-.77280	-.10140	-.37760	.09130	-1.56840	.02750	.74100	-.02750	-1.59600
.901	161.480	1.41060	-.74610	-.26750	-.54270	.13060	-1.64570	.06970	.71840	-.06970	-1.71340
.901	159.400	1.71950	-.85780	-.59370	-.81360	.16310	-1.66990	.06130	.71463	-.06130	-1.73120
.901	157.280	2.26150	-1.24300	-.66370	-.85690	.11100	-1.62410	.11340	.72110	-.11340	-1.73960
.901	155.140	2.77120	-1.50530	1.05010	-.71210	.12070	-1.64940	.13100	.72020	-.13100	-1.78040
.901	153.120	3.12060	-1.58620	.90960	-1.29470	.16260	-1.61600	.13950	.71510	-.13950	-1.73460
.901	151.020	3.50760	-1.63070	.57390	-1.59650	.22710	-1.59720	.14910	.71030	-.14910	-1.74840
.901	149.020	3.90240	-.17370	.41960	-1.88650	.25740	-1.56480	.15160	.70850	-.15160	-1.71630
.901	159.420	1.67630	-.82560	-.51240	-.76750	.15220	-1.83290	.06200	.71300	-.06200	-1.69490
GRADIENT	-.17065	.06239	-.04632	.07607	-.00934	.00846	-.01029	.00324	.00324	.01029	-.01076

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSPC 907(P44) TITAN III C 80N (MSETP)

(007089) (23 APR 74)

REFERENCE DATA

SREP = .0000 90. IN YMRP = 4.0330 IN.
 LREP = .0000 IN. YMRP = .0000 IN.
 BREP = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 76/ 0 RM/L = 6.63 GRADIENT INTERVAL = -3.00/ 5.00

NACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.197	109.430	.79170	-.01070	-.14950	-.01270	.06370	-1.91930	.12000	.76110	-.12000	-2.04420
1.197	107.470	1.00350	-.90020	-.13060	.09040	.09300	-1.96320	.13140	.76900	-.13140	-2.09060
1.197	105.300	1.30570	-.84010	-.16140	.05670	.11660	-1.99330	.13900	.74930	-.13900	-2.13230
1.197	103.320	1.02770	-1.10060	-.20460	-.01400	.15000	-2.02810	.16600	.73750	-.16600	-2.19490
1.197	101.220	1.98550	-1.28920	-.25310	-.03260	.17950	-2.05240	.19540	.73340	-.19540	-2.23760
1.197	100.120	2.30200	-1.46750	-.29520	-.00910	.21040	-2.06290	.21120	.72940	-.21120	-2.27420
1.197	100.010	2.02610	-1.57630	-.32710	-.00200	.23410	-2.07020	.22710	.72210	-.22710	-2.29730
1.197	104.890	3.31280	-1.61750	-.35820	-.13230	.25450	-2.07580	.25310	.71350	-.25310	-2.32890
1.197	102.780	3.01700	-1.60070	-.36950	-.26690	.26370	-2.05950	.26350	.70460	-.26350	-2.32200
1.197	100.000	4.36370	-1.51470	-.36960	-.32260	.30990	-2.03550	.27350	.69320	-.27350	-2.30900
1.197	100.020	4.94470	-1.31920	-.36820	-.32590	.34080	-2.00310	.28370	.68310	-.28370	-2.28680
1.197	100.110	2.42440	-1.45190	-.25410	-.01470	.20830	-2.05020	.20730	.72730	-.20730	-2.26560
1.197	GRADIENT	-.20012	.03543	.01378	.01975	-.01312	.00448	-.00839	.00410	.00839	-.01287

RUN NO. 117/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 3.00

NACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.904	109.370	.82900	-.75190	.09080	.22850	.04360	-1.86670	.04010	.76630	-.04010	-1.92690
1.904	107.400	1.09790	-.73420	.10410	.27210	.09470	-1.91190	.06040	.73840	-.06040	-1.97230
1.904	105.340	1.43090	-.67780	.03350	.17210	.07070	-1.94130	.07500	.71120	-.07500	-2.01640
1.904	103.290	1.81800	-.59420	-.06670	.01840	.09980	-1.97550	.09010	.69010	-.09010	-2.06560
1.904	101.160	2.21430	-.48900	-.12700	.01610	.09620	-1.99830	.10700	.67830	-.10700	-2.10330
1.904	100.050	2.62900	-.29710	-.18140	-.06150	.11900	-2.02490	.12390	.66300	-.12390	-2.15080
1.904	100.940	3.08210	-.12950	-.21210	-.06640	.12700	-2.04830	.13270	.65600	-.13270	-2.18130
1.904	104.000	3.48900	.06990	-.17970	-.01300	.14550	-2.04210	.13400	.64890	-.13400	-2.17610
1.904	102.760	3.93020	.30850	-.15490	-.01500	.16370	-2.04400	.14390	.64160	-.14390	-2.18000
1.904	100.070	4.36930	.56640	-.19040	-.04490	.17900	-2.03220	.14870	.63310	-.14870	-2.18100
1.904	100.000	4.81620	.81210	-.23660	-.03320	.20600	-2.01820	.14490	.63010	-.14490	-2.16310
1.904	GRADIENT	-.19953	-.07703	.01810	.01432	-.00754	.00711	-.00522	.00613	.00522	-.01233



TABULATED SOURCE DATA, NSFC TWT 507

DATE 11 JUL 74

(897069) (25 APR 74)

NSFC 507 (PA4) TITAN 111 C 3RM (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 223.000

REFERENCE DATA

SREF = .6308 56. IN XREF = 4.6338 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 BREF = .9000 IN. ZREF = .0000 IN.
 SCALE = .0074

RUN NO. 56/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 9.00

INCH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	109.240	.69200	-.19350	.03750	-.03500	.02000	-1.09640	.05500	.60720	-.05500	-1.95420
3.400	107.810	.90750	-.12710	.01250	-.06340	.03050	-1.93510	.05650	.64920	-.05650	-1.99170
3.400	105.370	1.10000	-.15090	-.01670	-.11560	.03990	-1.87100	.05250	.66790	-.05250	-2.02350
3.400	103.320	1.42500	-.11100	-.04040	-.16470	.04510	-2.00180	.05110	.66140	-.05110	-2.05890
3.400	101.400	1.71070	-.06990	-.04040	-.13090	.05740	-2.04900	.04600	.65660	-.04600	-2.09390
3.400	159.430	2.03000	-.03990	-.04710	-.13060	.04910	-2.09960	.02330	.64900	-.02330	-2.11320
3.400	137.380	2.36630	-.17020	-.04700	-.09330	.04970	-2.11950	-.00070	.64240	.00070	-2.11470
3.400	155.330	2.72100	.36890	-.07370	-.09300	.08240	-2.14160	-.02210	.63430	.02210	-2.11950
3.400	153.280	3.00740	.56770	-.11090	-.05070	.09730	-2.14400	-.04220	.62740	.04220	-2.10100
3.400	151.220	3.49030	.82030	-.16600	-.05230	.11300	-2.14220	-.06240	.62160	.06240	-2.07970
3.400	149.250	3.80440	1.05750	-.16860	-.02220	.12120	-2.13780	-.07500	.61700	.07500	-2.06190
3.400	159.430	2.03780	.04060	-.04030	-.14000	.04990	-2.09890	.02090	.64900	-.02090	-2.11790
GRADIENT		-.15723	-.06008	.00871	-.00243	-.00401	.01298	.00719	.00326	-.00719	.00586

RUN NO. 57/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 9.00

INCH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPBI	CAF
4.950	109.830	.94500	-.12370	.01410	-.17820	.08260	-1.09460	.01900	.60070	-.01900	-1.91370
4.950	107.720	.71490	-.13020	.01400	-.17530	.04400	-1.95570	.02070	.67490	-.02070	-1.97650
4.950	105.700	.94220	-.07650	.00230	-.23010	.04930	-2.01150	.02020	.66180	-.02020	-2.03190
4.950	103.800	1.17020	-.11260	.00310	-.20030	.05500	-2.04900	.01120	.66370	-.01120	-2.05920
4.950	101.860	1.45520	-.05920	-.00960	-.22850	.01640	-2.08940	-.00590	.65660	.00590	-2.08340
4.950	159.640	1.73690	-.05540	-.03910	-.22600	.05820	-2.12100	-.01670	.64740	.01670	-2.10300
4.950	137.800	2.07940	.20400	-.02660	-.17540	.04110	-2.16690	-.03560	.63910	.03560	-2.13120
4.950	155.600	2.41920	.44340	-.04400	-.13940	.07400	-2.19820	-.04820	.62050	.04820	-2.14990
4.950	153.500	2.81310	.67800	-.08940	-.13340	.10710	-2.20270	-.03600	.62090	.03600	-2.14300
4.950	151.900	3.13220	.94700	-.10560	-.13340	.12560	-2.18800	-.07590	.61350	.07590	-2.11290
4.950	149.610	3.80770	1.21440	-.12230	-.13900	.11530	-2.22430	-.08000	.60600	.08000	-2.13620
4.950	159.640	1.76830	.00930	-.03970	-.19840	.00610	-2.13220	-.01600	.65090	.01600	-2.11620
GRADIENT		-.15272	-.06621	.00700	-.00329	-.00317	.01596	.00368	.00368	-.00368	.01000

MOPC 507 (PAA) TITAN III C 0HR (MDETP)

(0207070) (23 APR 74)

REFERENCE DATA

DREF = .0300 00. IN THMP = 4.6338 IN.
 LREF = .0000 IN. THMP = .0000 IN.
 DREF = .0000 IN. THMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 225.000

RUN NO. 79/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CTWM	CBL	CA	CAB	ICP/L	CPBI	CAF
.995	100.110	-.44200	.00230	-.07030	.04760	.01510	-.01050	-.10340	-.09790	.10340	-.05400
.995	100.200	-.32000	.02740	-.00900	-.07000	-.01100	-.79310	-.10900	.07170	.10900	-.02330
.995	100.100	-.22420	.70150	-.00640	-.09240	-.01430	-.79420	-.10130	1.04740	.10130	-.03200
.995	104.170	-.10230	.53400	-.00430	-.07120	-.03390	-.04000	-.15000	1.00030	.19000	-.00910
.995	102.100	-.07730	.35010	-.03900	-.05000	-.01150	-.00190	-.15320	1.23700	.15320	-.72000
.995	100.140	-.04200	.17510	-.00170	-.09000	-.00200	-.94130	-.14400	.12420	.14400	-.70230
.995	170.100	-.10140	-.04000	-.01430	-.09000	-.00200	-.94130	-.14400	.72740	.14240	-.75000
.995	176.110	-.10230	-.26030	-.02340	-.00940	-.01010	-.98150	-.14900	.03220	.14900	-.03190
.995	174.110	-.26200	-.44110	-.04100	-.01230	-.01910	-.10410	-.14010	.06390	.14010	-.09330
.995	172.070	-.37170	-.03410	-.01370	-.04000	-.00050	-.10700	-.14200	.06740	.14200	-.93610
.995	170.130	-.49070	-.03470	-.02300	-.03270	-.03270	-.11130	-.12950	.06070	.12950	-.90420
.995	100.140	-.02170	.10730	.00000	-.00330	-.03960	-.92020	-.14420	-.32490	.14420	-.70400
GRADIENT		-.04433	.00957	.00227	-.00007	-.00041	.01673	-.00155	.00936	.00155	-.01020

RUN NO. 00/ 0 RM/L = 0.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CTWM	CBL	CA	CAB	ICP/L	CPBI	CAF
.901	190.150	-.52440	.34000	-.02430	.03300	.03370	-.90050	-.01500	.73370	.01500	-.97340
.901	100.230	-.39400	.30720	-.04950	-.09010	.03570	-.96110	-.02040	.75000	.02040	-.93270
.901	100.200	-.20440	.30010	-.05310	-.15100	.02790	-.95710	-.05070	.79900	.05070	-.95030
.901	104.100	-.15410	.32000	-.01000	-.15400	.02300	-.90000	-.07260	.91990	.07260	-.09500
.901	102.100	-.03490	.29000	-.00310	-.17200	.02470	-.10200	-.09720	1.73320	.09720	-.92300
.901	100.130	-.05970	.15500	-.00510	-.10730	.03200	-.10500	-.11990	.32500	.11990	-.90030
.901	170.000	-.13020	-.05100	-.00170	-.13020	.04040	-.10020	-.11590	.70170	.11590	-.90030
.901	176.000	-.22420	-.10330	-.01520	-.09120	.04750	-.11300	-.11500	.79490	.11500	-.10140
.901	174.050	-.34290	-.33210	-.03320	-.13000	.04240	-.10740	-.10790	.77410	.10790	-.10790
.901	172.020	-.44390	-.46520	-.00390	-.20070	.05530	-.12070	-.10000	.70420	.10000	-.11600
.901	170.070	-.59000	-.57040	-.03000	-.15940	.05000	-.13320	-.00010	.77370	.00010	-.12490
.901	100.130	-.00100	.12730	-.01790	-.17030	.03630	-.10400	-.11600	.49300	.11600	-.91120
GRADIENT		-.05237	.00940	-.00239	.00551	-.00131	.01023	-.00419	.00504	.00419	-.01404



NSFC 907 (FA4) TITAN III C SRM (MDETP)

(897070) (23 APR 74)

PARAMETRIC DATA

REF = .0300 IN IHRP = 4.0330 IN.
 LREF = .0000 IN. IHRP = .0000 IN.
 BREF = .0000 IN. IHRP = .0000 IN.
 SCALE = .0074
 RUN NO. 01/ 0 RM/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00
 BETA = .000 PHI = 283.000

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.201	190.250	-.63400	.04500	.07690	-.12100	.05100	-1.54730	.19200	.82030	-.19200	-1.69930
1.201	189.310	-.48030	.76790	.08250	-.17090	.02010	-1.54200	.13900	.65300	-.13900	-1.69180
1.201	188.240	-.32770	.64730	.06840	-.20330	.00410	-1.53000	.10440	.90140	-.10440	-1.69720
1.201	184.228	-.21490	.45550	.04120	-.22090	-.00120	-1.57240	.10090	.91960	-.10090	-1.67340
1.201	182.170	-.09610	.25970	-.01640	-.24500	.00930	-1.59600	.10730	1.03320	-.10730	-1.70420
1.201	180.130	.05410	.09290	-.03260	-.26430	.01490	-1.62130	.10940	.43440	-.10940	-1.73090
1.201	178.080	.17670	-.12370	-.07420	-.22090	.01490	-1.66370	.11110	.74010	-.11110	-1.77490
1.201	176.040	.31070	-.30390	-.07710	-.18190	.03700	-1.71310	.11960	.77530	-.11960	-1.83370
1.201	174.010	.46310	-.49700	-.09890	-.15930	.05630	-1.75590	.12390	.76750	-.12390	-1.89190
1.201	171.930	.64890	-.69300	-.13680	-.13920	.07590	-1.84800	.14000	.70660	-.14000	-1.96970
1.201	169.960	.83760	-.89050	-.17300	-.03500	.08600	-1.89800	.14900	.77690	-.14900	-2.04190
1.201	160.130	.04270	.06530	-.04120	-.28370	.02230	-1.61010	.09800	.51970	-.09800	-1.70820
1.201	GRADIENT	-.08943	.08731	.01346	-.00330	-.00330	.01763	-.00027	.00629	-.00027	.01790

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
1.957	190.130	-.68280	.70060	.17020	-.19390	.01370	-1.63000	.04460	.78130	-.04460	-1.69350
1.957	189.130	-.68760	.69220	.16600	-.20360	.01330	-1.65420	.04270	.78270	-.04240	-1.69670
1.957	188.100	-.50770	.61970	.16220	-.12900	.00840	-1.63770	.04270	.80570	-.03490	-1.67220
1.957	186.150	-.34770	.49540	.13200	-.06780	-.00190	-1.64190	.09000	.83180	-.02890	-1.67000
1.957	184.090	-.23080	.35650	.09390	-.01670	-.01030	-1.66730	.02040	.84690	-.02040	-1.69770
1.957	182.000	-.11400	.19240	.03280	-.00990	.00630	-1.68140	.01310	.86510	-.01310	-1.69460
1.957	179.990	.02040	-.01340	.02970	.02190	.00690	-1.69510	.01360	.74710	-.01360	-1.70870
1.957	177.940	.12060	-.24260	.05370	-.00660	.01720	-1.71030	.01390	.90630	-.01390	-1.73230
1.957	175.890	.23010	-.45310	.01100	.03690	.02260	-1.74170	.01110	.86180	-.01110	-1.75200
1.957	173.840	.40300	-.64210	.01290	-.09210	.03540	-1.78260	.01020	.83310	-.01020	-1.79290
1.957	171.790	.60060	-.73330	.03290	.11020	.04600	-1.82720	.02000	.80600	-.02000	-1.84720
1.957	169.800	.82940	-.76950	.09310	.19180	.03470	-1.86560	.03570	.76950	-.03370	-1.90160
1.957	179.990	.02920	-.01160	.03040	.00680	.01340	-1.69630	.01200	.70180	-.01200	-1.67030
1.957	GRADIENT	-.06865	.07966	.00724	-.00206	-.00206	.01002	-.00100	-.00100	-.00100	.00901

DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TMT 507

PAGE 122

NSFC 507 (7A) TITAN III C 8PM (MNETP)

(1897078) (23 APR 74)

REFERENCE DATA

SREF = .6368 96. IN XIMP = 4.0338 IN.
 LREF = .9000 IN. YIMP = .0000 IN.
 SREF = .9000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 285.000

RUN NO. 55/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	190.150	-.59900	-.21030	.11330	-.02310	.01850	-1.69270	.05650	.69670	-.01650	-1.74960
3.480	188.250	-.43510	-.26240	.12170	-.02090	.01070	-1.70020	.05300	.72760	-.05300	-1.75330
3.480	186.200	-.30880	-.28510	.10360	-.03300	-.00430	-1.69950	.04360	.76830	-.04360	-1.74330
3.480	184.190	-.22140	-.23160	.07990	-.04730	-.00020	-1.70500	.03820	.76390	-.03820	-1.74330
3.480	182.190	-.12000	-.15770	.06970	-.12850	.00040	-1.72200	.03590	.61790	-.03590	-1.75800
3.480	180.150	-.04470	-.04450	.05160	-.09840	-.01250	-1.74070	.03630	.77760	-.03630	-1.77700
3.480	178.120	.06230	-.06370	.04730	-.08780	-.00170	-1.75980	.03320	.78010	-.03320	-1.79310
3.480	176.100	.17280	-.17390	.03970	-.09130	-.00130	-1.78110	.03650	.78050	-.03650	-1.81770
3.480	174.090	.28730	-.21260	.05610	-.06430	.00000	-1.81610	.04230	.74520	-.04230	-1.85850
3.480	172.040	.49220	-.22410	.09020	-.05410	.02150	-1.85670	.03130	.71420	-.05130	-1.90800
3.480	170.090	.65610	-.17330	.05030	-.04820	.02820	-1.89220	.06000	.68500	-.06000	-1.95230
3.480	168.150	-.04410	-.04440	.05850	-.11320	-.00740	-1.73960	.03680	.77890	-.03680	-1.77660
3.480	GRADIENT	-.03663	.02698	.60372	-.00116	-.00046	.00977	-.00000	.00104	.00000	.00977

RUN NO. 56/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CTM	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.959	190.080	-.52970	-.29070	.11800	-.15600	.00480	-1.65910	.01650	.71140	-.01650	-1.87560
4.959	188.170	-.35620	-.31010	.14890	-.15690	.00420	-1.65310	.01500	.76160	-.01500	-1.87010
4.959	186.160	-.27210	-.32240	.13290	-.16310	.00530	-1.66370	.01320	.80140	-.01320	-1.87890
4.959	184.190	-.21690	-.25630	.10620	-.19630	-.00730	-1.67290	.01270	.80110	-.01270	-1.89560
4.959	182.150	-.10360	-.19120	.09260	-.17460	-.02530	-1.70930	.01340	.80310	-.01340	-1.72170
4.959	180.150	-.10390	-.12860	.09390	-.18950	.00090	-1.71250	.01290	.80810	-.01290	-1.72550
4.959	178.130	.06710	-.00090	.09580	-.15910	.00690	-1.73660	.01170	.84960	-.01170	-1.74830
4.959	176.120	.15300	-.01710	.09700	-.17400	.00020	-1.76280	.01140	.86560	-.01140	-1.77420
4.959	174.130	.23730	-.06690	.06390	-.18160	.00960	-1.79650	.01340	.88720	-.01340	-1.80990
4.959	172.100	.30660	-.11660	.09990	-.18830	.04320	-1.81990	.01470	.89030	-.01470	-1.83460
4.959	170.170	.32300	-.13500	.08530	-.13790	-.01050	-1.86060	.01750	.86420	-.01750	-1.87610
4.959	168.140	.01090	-.09320	.09490	-.17510	-.03310	-1.72310	.01320	-.44760	-.01320	-1.73630
4.959	GRADIENT	-.04639	.02521	.00234	.00011	-.00064	.01031	-.00000	.00379	.00000	.01031



TABULATED SOURCE DATA, NSFC TMT 567

DATE 11 JUL 74

(R97971) (23 APR 74)

NSFC 987 (F44) TITAN III C SRM (MSETP)

PARAMETRIC DATA

DELTA = .000 PHI = 202.500

REFERENCE DATA

MREF = .0350 IN ZMRP = 4.6350 IN.
LMREF = .0000 IN. TMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 105/ 0 RM/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYH	CYHM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.198	-10.140	-95840	-1.25010	.02040	-.33900	.03100	1.21200	.21000	.21000	.90	-.21000	1.00200
1.198	-8.190	-76300	-.90790	.02340	-.31760	.03340	1.19100	.19420	.19420	.30100	-.19420	.99800
1.198	-6.150	-.57300	-.56960	.01400	-.24360	.03750	1.17410	.19030	.19030	.52370	-.19030	.98300
1.198	-4.110	-.43890	-.27220	.00360	-.19550	.03490	1.15970	.19430	.19430	.97300	-.19430	.96310
1.198	-2.070	-.29410	-.01340	-.00250	-.17520	.03390	1.15390	.18370	.65750	.65750	-.18370	.97020
1.198	0.010	-.15150	.30930	.01420	-.16410	.03100	1.14100	.17060	.90970	.90970	-.17060	.97120
1.198	2.020	.00070	.62410	.02560	-.17760	.01730	1.13910	.16640	1.06960	1.06960	-.16640	.97200
1.198	4.070	.12500	.95810	.03160	-.19010	.01170	1.14660	.16770	-.31820	-.31820	-.16770	.98970
1.198	6.090	.24680	1.28200	.06510	-.22900	-.00560	1.10020	.19040	-.00590	-.00590	-.19040	.99510
1.198	8.100	.40840	1.63810	.08950	-.23480	-.00940	1.20150	.20640	.13770	.13770	-.20640	.99310
1.198	10.110	.59690	2.00810	.11330	-.31080	-.01660	1.21450	.21740	.22370	.22370	-.21740	.99710
1.198	GRADIENT	-.14240	.29510	.01910	-.17010	-.02220	1.12600	.16470	.91360	.91360	-.16470	.96130
		.04956	.15016	.00411	.00041	-.00304	-.00201	-.00347	-.06601	-.06601	.00347	.00146

RUN NO. 26/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYH	CYHM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.220	-.86340	-1.67990	-.04120	-.02440	-.02830	.74970	.06960	.06960	.40320	-.06960	.67610
3.400	-8.240	-.65930	-1.35900	-.04390	-.07090	.01560	.73330	.06510	.06510	.39060	-.06510	.66820
3.400	-6.240	-.44300	-.96690	-.03300	-.06310	.01410	.72380	.05840	.05840	.36960	-.05840	.66530
3.400	-4.200	-.28940	-.62100	-.03620	-.06930	.01700	.71120	.05300	.05300	.37990	-.05300	.65820
3.400	-2.180	-.13710	-.24140	-.02740	-.06490	.00600	.70110	.04930	.04930	.42870	-.04930	.65180
3.400	0.000	.00090	.07120	-.00400	-.04810	-.00190	.70950	.04900	.04900	-.0.39340	-.04900	.66440
3.400	1.890	.11640	.39480	-.00750	-.06500	-.00300	.72290	.04870	.22210	.22210	-.04870	.67410
3.400	3.920	.25720	.73280	-.01060	-.07000	-.00440	.74130	.05230	.28870	.28870	-.05230	.68900
3.400	5.840	.43370	1.09330	-.01270	-.05170	-.02160	.76130	.05640	.33390	.33390	-.05640	.70500
3.400	8.000	.65160	1.40840	-.00770	-.04230	-.02160	.76920	.06160	.371	.371	-.06160	.70730
3.400	9.970	.90690	1.75930	-.00740	-.01790	-.02380	.79000	.06610	.40890	.40890	-.06610	.72390
3.400	GRADIENT	-.00150	.07180	-.00390	-.04250	-.02000	.71070	.04450	-.5.25790	-.5.25790	-.04450	.66610
		.08636	.16524	.00351	.00006	-.00259	.00404	-.00010	-.02043	-.02043	.00010	.00413

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 507(F7AA) TITAN III C SRM (HRETP)

(H97072) (23 APR 74)

REFERENCE DATA

SREF = .0300 IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 SREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 202.500

RUN NO. 164/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.192	10.600	.59030	1.96510	.09570	-.29320	-.02220	1.23020	.25090	.22590	-.25090	.97930
1.192	12.610	.79930	2.35530	.12410	-.36760	-.03410	1.22870	.26110	.27850	-.26110	.96760
1.192	14.660	1.04490	2.77410	.14480	-.37960	-.04130	1.22000	.26360	.32100	-.26360	.95620
1.192	16.740	1.30890	3.32230	.09060	-.35970	-.05790	1.20890	.27440	.34770	-.27440	.93430
1.192	18.840	1.73200	3.94300	-.02000	-.32260	-.07310	1.19000	.27680	.36660	-.27680	.91320
1.192	20.970	2.17160	4.63470	-.16140	-.35120	-.07630	1.17310	.30170	.30140	-.30170	.87130
1.192	23.090	2.64070	5.38510	-.22630	-.42640	-.09140	1.15090	.29240	.39340	-.29240	.85840
1.192	25.210	3.12600	6.17770	-.22550	-.46790	-.09560	1.13420	.31210	.40140	-.31210	.82200
1.192	27.320	3.64970	7.03300	-.05660	-.47360	-.12000	1.11000	.32650	.40120	-.32650	.78340
1.192	29.490	4.22120	7.93300	.16990	-.63000	-.12500	1.09220	.35270	.41360	-.35270	.73940
1.192	31.530	4.84820	8.75290	.34010	-.66190	-.11280	1.07220	.38530	.42390	-.38530	.68690
1.192	20.970	2.15650	4.67920	-.16110	-.35470	-.08200	1.13620	.27980	.36060	-.27980	.87030
GRADIENT		.20444	-.32957	-.00012	-.01664	-.00504	-.00604	.00371	.00628	-.00371	-.01375

RUN NO. 27/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	10.310	.91920	1.77470	-.00710	-.03950	-.04040	.80000	.06640	.40710	-.06640	.74190
3.400	12.430	1.16090	2.08230	-.00220	-.02900	-.05350	.81770	.06900	.42440	-.06900	.74860
3.400	14.306	1.49160	2.42660	.02230	.05070	-.05120	.84530	.07050	.43990	-.07050	.77470
3.400	16.550	1.79610	2.75580	.04620	.03200	-.06370	.87700	.07170	.45290	-.07170	.80330
3.400	18.590	2.04460	3.10220	.06980	-.00050	-.08100	.90440	.07150	.46310	-.07150	.83260
3.400	20.660	2.44130	3.49720	.08160	-.00070	-.09360	.93340	.07040	.47020	-.07040	.86300
3.400	22.720	2.83420	3.87550	.10220	.06800	-.10460	.96690	.06900	.47640	-.06900	.89760
3.400	24.770	3.20310	4.22160	.09590	.06640	-.11480	.99060	.06960	.48470	-.06960	.92100
3.400	26.810	3.57370	4.59760	.08300	.08400	-.12420	1.01750	.06500	.48860	-.06500	.95250
3.400	28.900	3.99120	5.03030	.08620	.09140	-.12390	1.04810	.06070	.49160	-.06070	.98730
3.400	30.070	4.35190	5.38200	.09940	.00210	-.13160	1.07530	.05590	.49500	-.05590	1.01960
3.400	20.950	2.42640	3.45950	.08900	.04170	-.08630	.93960	.07040	.47120	-.07040	.86920
GRADIENT		.17066	-.17791	.00536	.00040	-.00467	.01362	-.00049	.00414	-.00049	-.01411



NSFC 987 (FA4) TITAN III C SRH (MNETP)

(1897874) (23 APR 74)

REFERENCE DATA

DEEP = 0.388 50. IN XIMP = 4.8338 IN.
 LDEP = 0.000 00. IN. YIMP = 0.0000 IN.
 SDEP = 0.000 00. IN. ZIMP = 0.0000 IN.
 SCALE = .9074

PARAMETRIC DATA

BETA = .000 PHI = 202.988

RUN NO. 200/ 0 RM/L = 0.82 GRADIENT INTERVAL = -5.00/ 5.00

NSFCN	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPH1	CAF
1.197	50.870	9.22880	13.18280	-22920	-20780	-13730	-82900	-90000	.47100	.00000	.02990
1.197	52.780	9.61320	13.39320	-17410	-24820	-14880	-78140	-80000	.47930	.00000	.78140
1.197	54.770	9.99950	13.67040	-12680	-30480	-14650	-73430	-80000	.47640	.00000	.75430
1.197	56.780	10.39690	13.97120	-11090	-43820	-14190	-72350	-80000	.48320	.00000	.72350
1.197	58.780	10.83320	13.99140	-87740	-48410	-15290	-68300	-80000	.48880	.00000	.68300
1.197	60.800	11.25280	14.11150	-64430	-46880	-14820	-64190	-80000	.49250	.00000	.64190
1.197	62.800	11.58960	14.17280	-42960	-46990	-15290	-60980	-80000	.49670	.00000	.60980
1.197	64.800	11.81300	14.18200	-33390	-44310	-15510	-57960	-80000	.50020	.00000	.57960
1.197	66.770	11.99860	14.02010	-25870	-37510	-16210	-54820	-80000	.50360	.00000	.54820
1.197	68.770	12.13210	13.88100	-20290	-29900	-16470	-53030	-80000	.50880	.00000	.53030
1.197	70.800	12.31490	13.59810	-15820	-27020	-16290	-49200	-80000	.51180	.00000	.49200
1.197	80.800	11.18810	13.99190	-64420	-49110	-15770	-64240	-80000	.49320	.00000	.64240
GRADIENT		-.16021	.02331	-.00785	-.00332	-.00121	-.01640	-80000	.00208	.00000	-.01640

RUN NO. 207/ 0 RM/L = 0.34 GRADIENT INTERVAL = -5.00/ 5.00

NSFCN	ALPHA	CMH	CLMH	CYM	CYMH	CBL	CA	CAB	XCP/L	CPH1	CAF
3.488	50.510	7.90780	6.53880	-13470	-15280	-13930	1.16480	-80000	.51480	.00000	1.16480
3.488	52.426	8.27140	6.76250	-13470	-16040	-14280	1.13430	-80000	.51710	.00000	1.13430
3.488	54.430	8.62710	6.92160	-16750	-20090	-14690	1.09480	-80000	.51910	.00000	1.09480
3.488	56.440	8.99970	6.97130	-17940	-22930	-14340	1.06470	-80000	.51970	.00000	1.06470
3.488	58.450	9.35950	6.93680	-19000	-27220	-13760	1.02290	-80000	.51930	.00000	1.02290
3.488	60.480	9.68010	6.96470	-20930	-30040	-13390	.98170	-80000	.52090	.00000	.98170
3.488	62.480	9.98480	10.02970	-24870	-31400	-15940	.84190	-80000	.52320	.00000	.84190
3.488	64.480	10.11370	10.07200	-28890	-36980	-16290	.89780	-80000	.52540	.00000	.89780
3.488	66.480	10.34080	10.09090	-29950	-39910	-18100	.85210	-80000	.52800	.00000	.85210
3.488	68.480	10.57400	10.07490	-29620	-49950	-16900	.80100	-80000	.53070	.00000	.80100
3.488	70.588	10.79950	10.14690	-31230	-43890	-15030	.77270	-80000	.53240	.00000	.77270
3.488	80.480	9.61910	9.81970	-20220	-48710	-13270	.89310	-80000	.52100	.00000	.89310
GRADIENT		-.14323	.08253	.00945	-.01876	-.00122	-.02020	-80000	.00584	.00690	-.02020

NSPC 587 (FA4) TITAN III C 8RM (HNETP)

(R07073) (23 APR 74)

REFERENCE DATA

REF * .0300 30. IN XIMP = 4.0338 IN.
LREF * .0000 IN. YIMP = .0000 IN.
OREF * .9000 IN. ZIMP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 202.500

RUN NO. 281/ 0 RM/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLWN	CYN	CTWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.198	70.820	12.23730	13.32010	.06460	-.30120	-.16320	.59330	.00000	.51370	.00000	.59330
1.198	72.710	12.45940	13.14880	.04280	-.26510	-.19210	.59090	.00000	.51790	.00000	.59090
1.198	74.600	12.68090	12.91610	.04050	-.28130	-.19630	.59370	.00000	.52340	.00000	.59370
1.198	76.640	12.89840	12.59000	.04730	-.27540	-.16320	.48360	.00000	.52800	.00000	.48360
1.198	78.620	12.89430	12.00670	.03610	-.24960	-.16420	.46330	.00000	.53360	.00000	.46330
1.198	80.620	13.01730	11.72860	.05270	-.24220	-.16750	.42350	.00000	.53740	.00000	.42350
1.198	82.610	13.13080	11.51080	.05330	-.22510	-.17560	.39020	.00000	.54050	.00000	.39020
1.198	84.590	13.23360	11.23130	.06860	-.24960	-.19810	.37070	.00000	.54450	.00000	.37070
1.198	86.550	13.32590	10.90440	.08830	-.23300	-.20530	.36000	.00000	.54610	.00000	.36000
1.198	88.550	13.39650	10.61540	.06070	-.22190	-.19370	.32700	.00000	.55120	.00000	.32700
1.198	90.440	13.42390	10.34470	.06950	-.22070	-.20250	.27030	.00000	.55390	.00000	.27030
1.198	88.620	12.98010	11.69400	.06180	-.24040	-.16580	.42600	.00000	.53730	.00000	.42600
GRADIENT		.05971	-.15564	.00129	.00347	-.00273	-.01369	.00000	.00207	.00000	-.01369

RUN NO. 286/ 0 RM/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMN	CLWN	CYN	CTWN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.480	70.920	10.73800	10.05360	.29340	-.46370	-.16090	.83420	.00000	.83360	.00000	.83420
3.480	72.400	10.92160	9.94040	.30510	-.40740	-.13760	.78350	.00000	.83630	.00000	.78350
3.480	74.410	11.09510	9.86140	.30200	-.42280	-.14490	.72280	.00000	.83900	.00000	.72280
3.480	76.410	11.26530	9.90600	.30410	-.41540	-.13300	.65470	.00000	.84020	.00000	.65470
3.480	78.430	11.40080	9.94350	.31220	-.44380	-.14710	.58340	.00000	.84190	.00000	.58340
3.480	80.430	11.52430	9.78250	.33390	-.44690	-.16620	.50950	.00000	.84400	.00000	.50950
3.480	82.400	11.66790	9.70980	.34420	-.41860	-.17000	.43280	.00000	.84620	.00000	.43280
3.480	84.420	11.83550	9.71080	.33320	-.44250	-.12560	.35910	.00000	.84780	.00000	.35910
3.480	86.400	11.94760	9.62610	.33840	-.37290	-.18960	.27520	.00000	.84950	.00000	.27520
3.480	88.410	11.87370	9.56170	.32820	-.34930	-.18540	.19060	.00000	.85040	.00000	.19060
3.480	90.300	12.02550	9.62820	.32200	-.33650	-.17280	.12600	.00000	.85010	.00000	.12600
3.480	90.410	11.30410	9.78780	.33400	-.44100	-.14930	.51780	.00000	.84400	.00000	.51780
GRADIENT		.06644	-.02271	.00199	.00458	-.00180	-.03654	.00000	.00086	.00000	-.03654



TABULATED SOURCE DATA, MOPC TWT 507

(897076) (23 APR 74)

MOPC 507 (P44) TITAN III C 0RM (MNETP)

DATE 11 JUN 74

PARAMETRIC DATA

BETA = .000 PMI = 202.500

REFERENCE DATA

DEPTH = .0300 00. IN XIRP = 4.0330 IN.
LREF = .0000 IN. YIRP = .0000 IN.
BREF = .0000 IN. ZIRP = .0000 IN.
SCALE = .0074

RUN NO. 214/ 0 RM/L = 0.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	ICP/L	CPB1	CAF
1.194	109.400	11.56090	5.51210	.42019	-.02330	-.22740	-.53320	.00000	.59120	.00000	-.54320
1.194	107.510	11.82470	5.90540	.45130	.02500	-.23000	-.42990	.00000	.50830	.00000	-.42990
1.194	105.520	12.07210	6.42030	.46140	.09370	-.24500	-.31380	.00000	.56420	.00000	-.31380
1.194	103.540	12.34020	6.99050	.47900	.11430	-.24100	-.20360	.00300	.57980	.00000	-.20360
1.194	101.550	12.54310	7.48050	.51180	.10490	-.24630	-.09750	.00000	.57590	.00000	-.09750
1.194	99.560	12.77710	8.17830	.50040	.20560	-.26090	.00180	.00000	.57090	.00000	.00180
1.194	97.674	12.96240	8.89170	.50020	.16430	-.26750	.09370	.00000	.56670	.00000	.09370
1.194	95.590	13.11370	9.00640	.50590	.20300	-.26370	.18520	.00000	.56380	.00000	.18520
1.194	93.020	13.27130	9.47350	.52140	.19300	-.27030	.27080	.00000	.56110	.00000	.27080
1.194	91.620	13.41550	9.89180	.52530	.20000	-.27820	.33070	.00000	.55820	.00000	.33070
1.194	89.760	13.44540	10.23350	.53000	.17290	-.28230	.40080	.00000	.55510	.00000	.40080
1.194	89.500	12.71970	9.14780	.50320	.16090	-.28280	-.00350	.00000	.57040	.00000	-.00350
1.194	GRADIENT	-.09802	-.24079	-.00493	-.01032	.00263	-.04840	.00000	.00189	.00000	-.04840

RUN NO. 207/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLWH	CYN	CYWH	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	109.630	10.02790	7.42960	.75760	-.21060	-.22480	-.53490	.00000	.56300	.00000	-.53490
3.400	107.740	10.06770	7.84380	.77010	-.21390	-.24010	-.43110	.00000	.56310	.00000	-.43110
3.400	105.750	11.09010	8.23140	.79230	-.19970	-.26230	-.34220	.00000	.55730	.00000	-.34220
3.400	103.750	11.29000	8.58150	.80700	-.21170	-.26250	-.25170	.00000	.55390	.00000	-.25170
3.400	101.750	11.45000	8.84250	.82950	-.19280	-.26560	-.16420	.00000	.55380	.00000	-.16420
3.400	99.740	11.02440	9.10950	.83800	-.15300	-.27770	-.07740	.00000	.55230	.00000	-.07740
3.400	97.740	11.76420	9.37760	.83990	-.00380	-.28130	.00090	.00000	.55080	.00000	.00090
3.400	95.750	11.70660	9.58390	.84790	-.04370	-.27640	.08000	.00000	.54930	.00000	.08000
3.400	93.770	11.99570	9.73830	.86950	-.05060	-.28010	.15510	.00000	.54870	.00000	.15510
3.400	91.750	12.07980	9.85010	.91020	.15220	-.31010	.22450	.00000	.54850	.00000	.22450
3.400	89.870	12.16550	9.89590	.90960	.16060	-.33280	.27850	.00000	.54850	.00000	.27850
3.400	89.760	11.59920	9.12420	.83770	-.13440	-.29250	-.04240	.00000	.55190	.00000	-.04240
3.400	GRADIENT	-.07633	-.12324	-.00736	-.02071	.00417	-.04119	.00000	.00074	.00000	-.04119

NSPC 307 (FA4) TITAN III C 30M (MOC1P)

(897077) (23 APR 74)

REFERENCE DATA

SREP = .0300 SA. IN XIMP = 4.0330 IN.
 LREP = .0000 IN. YIMP = .0000 IN.
 BREP = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 202.500

RUN NO. 219/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	129.410	0.46240	2.34510	.31550	.02200	-.10140	-1.47530	.00000	.01040	.00060	-1.47530
1.199	127.400	0.09000	2.50440	.34300	.00950	-.17920	-1.39470	.00000	.01470	.00000	-1.39470
1.199	129.420	0.24140	2.47000	.34030	-.00020	-.10810	-1.29250	.00000	.01760	.00250	-1.29250
1.199	129.440	0.02360	2.70390	.36140	-.00900	-.19320	-1.19910	.00000	.41510	.00000	-1.19910
1.199	121.440	10.00040	3.11550	.35910	-.11770	-.10750	-1.10170	.00000	.01210	.00000	-1.10170
1.199	119.420	10.33070	3.43400	.34020	-.19190	-.19170	-.99090	.00000	.00940	.00000	-.99090
1.199	117.440	10.04130	3.70340	.36340	-.17460	-.21170	-.90200	.00000	.00450	.00000	-.90200
1.199	115.430	10.94440	4.25940	.39020	-.14390	-.21650	-.79520	.00000	.00220	.00000	-.79520
1.199	113.450	11.20750	4.50440	.39300	-.09990	-.21320	-.66790	.00000	.59960	.00000	-.66790
1.199	111.430	11.49200	5.00210	.41710	-.06170	-.22160	-.57210	.00000	.59040	.00000	-.57210
1.199	109.560	11.74150	5.30290	.44420	.02540	-.23190	-.46610	.00000	.59350	.00000	-.46610
1.199	119.440	10.20470	3.40790	.34400	-.20090	-.19210	-.99140	.00000	.00070	.00000	-.99140
GRADIENT		-.16394	-.15003	-.00325	.00246	.00250	-.09079	.00000	.00124	.00000	-.09079

RUN NO. 200/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	129.620	7.45300	4.10720	.49640	-.01060	-.17000	-1.57690	.00000	.50770	.00000	-1.57690
3.400	127.740	7.02000	4.40600	.53270	-.09440	-.10740	-1.46510	.00000	.57890	.00500	-1.46510
3.400	129.710	0.22030	4.79000	.55570	-.03100	-.10760	-1.35780	.00000	.57000	.00000	-1.35780
3.400	129.710	0.54400	5.05170	.59190	-.07000	-.19500	-1.24630	.00000	.57670	.00000	-1.24630
3.400	121.700	0.00500	5.32970	.61610	-.06330	-.20970	-1.14070	.00000	.57560	.00000	-1.14070
3.400	119.600	0.22390	5.56010	.62700	-.07950	-.22390	-1.02530	.00000	.57510	.00000	-1.02530
3.400	117.600	0.57390	5.91510	.65050	-.11620	-.22503	-.91780	.00000	.57330	.00000	-.91780
3.400	115.600	0.85190	6.26400	.66700	-.16090	-.23730	-.80110	.00000	.57100	.00000	-.80110
3.400	113.700	10.15030	6.64070	.68320	-.20290	-.22020	-.69000	.00000	.56670	.00000	-.69000
3.400	111.690	10.37000	7.02120	.71750	-.21900	-.23970	-.58200	.00000	.56590	.00000	-.58200
3.400	109.610	10.04000	7.45270	.74400	-.20320	-.25700	-.49200	.00000	.56290	.00000	-.49200
3.400	119.700	9.21250	5.63190	.63910	-.00030	-.23910	-1.04390	.00000	.57410	.00000	-1.04390
GRADIENT		-.10007	-.16009	-.01159	.01140	.00427	-.05492	.00000	.00003	.00000	-.05492



DATE 11 JUL 74

TABULATED SOURCE DATA, NSFC TWT 507

PAGE 120

NSFC 507(UFA4) TITAN III C SRM (MDETP)

(8097079) (23 APR 74)

REFERENCE DATA

SREF = .0300 IN XREF = 4.0330 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 BREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 " = 202.500

RUN NO. 79/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLNH	CYN	CYMH	CBL	CA	CAB	ICP/L	CPB1	CAF
1.197	169.430	.70950	-.02790	.01040	-.31910	-.03950	-1.00040	.17690	.78420	-.17690	-2.06340
1.197	167.470	1.04750	-.03050	.13200	-.11170	-.05030	-1.92820	.19660	.75100	-.19660	-2.12490
1.197	163.300	1.32600	-.01170	.31950	.03930	-.07010	-1.96130	.22070	.73050	-.22070	-2.10200
1.197	163.320	1.00010	-.09050	.43300	.23200	-.07170	-1.98310	.24530	.72700	-.24530	-2.22040
1.197	161.230	2.00560	-1.12110	.29400	.10940	-.07050	-2.00790	.26170	.72250	-.26170	-2.26940
1.197	159.140	2.30000	-1.23100	.11020	.09790	-.04370	-2.03140	.26670	.71690	-.26670	-2.30010
1.197	157.050	2.61250	-1.31000	.02570	.09550	-.08060	-2.03220	.27560	.71040	-.27560	-2.30790
1.197	154.920	3.26350	-1.30690	-.01000	.17700	-.04700	-2.03350	.29330	.70190	-.29330	-2.32640
1.197	152.040	3.77670	-1.22750	-.04420	.10950	-.09130	-2.02360	.30420	.69260	-.30420	-2.32790
1.197	150.700	4.28490	-1.21330	-.02410	-.00410	-.09230	-2.00370	.31030	.68740	-.31030	-2.32210
1.197	148.060	4.95450	-.02090	.37770	.47070	-.09970	-1.98060	.33920	.67240	-.33920	-2.31990
1.197	150.130	2.40290	-1.24420	.11900	.09740	-.07410	-2.01040	.25440	.71700	-.25440	-2.28490
GRADIENT		-.19693	.01423	-.00406	-.01073	.00232	.00466	-.00722	.00442	-.00722	-.01100

RUN NO. 60/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLNH	CYN	CYMH	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	169.550	.06050	-.21580	.07970	-.13070	-.02290	-1.06960	.03050	.69260	-.03050	-1.92410
3.400	167.610	.90130	-.17670	.05650	-.20030	-.03070	-1.09250	.06010	.67630	-.06010	-1.95270
3.400	165.570	1.14030	-.13610	.02010	-.27190	-.03500	-1.91000	.03510	.66680	-.03510	-1.96590
3.400	163.520	1.41990	-.10550	.00260	-.30500	-.03370	-1.95070	.04350	.66090	-.04350	-1.99420
3.400	161.500	1.70050	-.04380	-.00300	-.31060	-.06800	-1.96030	.02540	.65470	-.02540	-2.00560
3.400	159.440	2.00960	-.10460	.02060	-.29200	-.09910	-2.00710	-.00030	.64490	-.00030	-2.00070
3.400	157.390	2.30690	.22020	.07720	-.20200	-.10270	-2.01340	-.02490	.63940	-.02490	-1.99050
3.400	155.340	2.64160	.39510	.11450	-.10440	-.10570	-2.02370	-.04490	.63250	-.04490	-1.98070
3.400	153.310	2.98030	.56140	.14000	-.19390	-.11700	-2.05140	-.06410	.62770	-.06410	-1.97200
3.400	151.240	3.30430	.03620	.15140	-.21700	-.11250	-2.06930	-.07360	.62020	-.07360	-1.93770
3.400	149.200	3.60430	1.07070	.16840	-.10240	-.11660	-2.08440	-.08900	.61590	-.08900	-1.99450
3.400	150.440	1.99580	.09370	.02110	-.26310	-.09050	-2.00920	-.00630	.64020	-.00630	-2.00290
GRADIENT		-.13262	-.06100	-.00665	-.00130	.00526	.01074	-.00891	.00356	-.00891	-.00242

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED SOURCE DATA, NSFC TWT 507
NSFC 507(FAA) TITAN III C 30R (MRETP)

DATE 11 JUL 74

(097000) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 202.500

REFERENCE DATA

REF 1 .6388 3d. IN XIMP = 4.6338 IN.
REF 2 .9888 1d. YIMP = .0008 IN.
REF 3 .9088 1d. ZIMP = .0008 IN.
SCALE = .0074

RUN NO. 74/ 0 RN/L = 6.64 GRADIENT INTERVAL = -3.00/ 5.00

WACH	ALPHA	CWH	CLWH	CYH	CYWH	BL	CA	CAB	XCP/L	CPB1	CAF
1.199	90.200	-71960	.76150	-.22400	-.36410	.04140	-1.59780	.17750	.78540	-.17790	-1.77530
1.199	106.310	-.54330	-.65190	-.07640	-.16670	.02310	-1.58020	.16040	.60330	-.16040	-1.74660
1.199	196.870	-.39470	-.54280	-.02720	-.10320	.01680	-1.57400	.12610	.62950	-.12610	-1.70020
1.199	184.820	-.85000	-.37620	-.02220	-.17220	.00700	-1.57410	.12110	.64190	-.12110	-1.69320
1.199	162.180	-.12710	-.81740	-.05030	-.27260	-.00440	-1.57970	.11700	.66800	-.11700	-1.69730
1.199	180.140	-.01740	-.04150	-.30020	-.04420	-1.58720	.10720	.10720	.27410	-.10720	-1.69430
1.199	178.090	-.13500	-.16590	-.01960	-.22120	-.00840	-1.61950	.11100	.60700	-.11100	-1.73050
1.199	176.050	-.26530	-.32970	-.02780	-.35900	-.00950	-1.67200	.11395	.60260	-.11390	-1.78590
1.199	174.020	-.43200	-.51590	-.03000	-.32720	-.02740	-1.70980	.12690	.60260	-.12690	-1.83660
1.199	171.940	-.62290	-.63700	-.04020	-.37660	-.03050	-1.79330	.14630	.78090	-.14630	-1.93970
1.199	169.970	-.82760	-.72610	-.00470	-.33370	-.04070	-1.65900	.16120	.76250	-.16120	-2.02020
1.199	160.130	-.04490	-.01300	-.05440	-.32750	-.00720	-1.58890	.10430	.61460	-.10430	-1.69330
GRADIENT		-.07218	.07659	-.00379	-.00751	.00353	.01240	.00069	.00180	-.00069	-.01171

RUN NO. 61/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWH	CLWH	CYH	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.150	-.58730	-.16220	-.02130	-.18000	.01110	-1.74910	.05680	.68640	-.05680	-1.79890
3.400	188.220	-.43290	-.24380	-.00340	-.15170	.00350	-1.75840	.05260	.72280	-.05260	-1.79100
3.400	186.200	-.30190	-.24380	-.03490	-.11790	.00330	-1.73200	.04110	.75370	-.04110	-1.77320
3.400	184.180	-.22300	-.17240	-.03630	-.11800	.00000	-1.72180	.03400	.74850	-.03400	-1.75590
3.400	182.180	-.12160	-.10150	-.05060	-.11130	-.00050	-1.72480	.02990	.79710	-.02990	-1.75480
3.400	180.140	-.04490	-.02500	-.05270	-.10470	-.00800	-1.73300	.03090	.58050	-.03090	-1.76400
3.400	178.120	-.07070	-.10430	-.05470	-.11200	-.01440	-1.75080	.02730	.63830	-.02730	-1.77820
3.400	176.090	-.17280	-.20470	-.09060	-.12290	-.02390	-1.76400	.02890	.60140	-.02890	-1.79290
3.400	174.090	-.30100	-.28350	-.05240	-.13060	-.03780	-1.78700	.03800	.76230	-.03800	-1.82310
3.400	172.040	-.43080	-.27900	-.07920	-.13070	-.03090	-1.81790	.04540	.73350	-.04540	-1.86340
3.400	170.090	-.63540	-.24290	-.08700	-.16230	-.03180	-1.83360	.04790	.69990	-.04790	-1.88360
3.400	160.140	-.04430	-.02460	-.05240	-.09160	-.02030	-1.73860	.03150	.58130	-.03150	-1.77010
GRADIENT		-.05378	.02981	-.00431	-.00073	.00242	.00464	.00043	-.00146	-.00043	-.00441



NSFC 507 (PA4) TITAN III C 8IN (MDE??)

(IN97001) (23 APR 74)

REFERENCE DATA

BREF = .0300 IN XMP = 4.0330 IN.
 LBREF = .0000 IN. YMP = .0000 IN.
 SBREF = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 166/ 0 RM/L = 4.68 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.595	-10.010	-76650	-1.25060	-0.0910	-92600	.07150	.64370	.11070	.44550	-.11070	.53290
.595	-8.090	-60800	-.94710	.04830	-.92780	.06320	.63220	.04620	-.45430	-.06820	.54590
.595	-6.090	-47070	-.71030	.06890	-.92490	.07170	.60860	.07190	-.46050	-.07190	.53870
.595	-4.090	-35090	-.46390	.10670	-.46770	.06790	.59360	.06390	-.46350	-.06390	.53370
.595	-2.090	-23170	-.13170	.13500	-.42760	.06700	.57390	.04970	.57950	-.04970	.52390
.595	-.020	-10640	-.11630	.12210	-.49730	.03370	.55490	.04420	.76720	-.04420	.51070
.595	1.990	-.00990	.39090	.16030	-.41930	.03300	.54460	.04420	5.00070	-.04420	.50030
.595	4.010	.09200	.77670	.15760	-.36790	.03130	.56850	.04410	-.41610	-.04410	.52430
.595	6.010	.23340	1.07930	.17970	-.36920	-.06300	.57810	.04790	.11250	-.04790	.53020
.595	8.090	.37340	1.35060	.20430	-.36020	-.03630	.58670	.05320	.19380	-.05320	.53340
.595	9.960	.51560	1.59180	.21230	-.39730	-.04530	.60390	.05960	.26060	-.05960	.54430
.595	-.040	-.17000	.17890	.13260	-.37370	-.05920	.56510	.04230	.76470	-.04230	.52270
GRADIENT		.03494	.14919	.00633	.01031	-.00532	-.00412	-.00224	.15953	.00224	-.00190

RUN NO. 167/ 0 RM/L = 6.19 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
.902	-10.070	-72210	-1.29210	-0.09730	-.60360	.03670	.60710	.11340	.42300	-.11340	.69360
.902	-8.140	-56130	-1.01210	-.03440	-.57000	.05520	.73210	.09940	.43120	-.09940	.68870
.902	-6.120	-42270	-.71030	.03320	-.54810	.05400	.76410	.08600	.43680	-.08600	.69010
.902	-4.100	-33590	-.46020	.07290	-.46780	.04310	.78060	.07230	.48070	-.07230	.70400
.902	-2.070	-21600	-.13190	.08890	-.42690	.04370	.77410	.06310	.57420	-.06310	.71090
.902	-.020	-11270	-.11500	.11620	-.42860	.03460	.75100	.05640	.78060	-.05640	.69460
.902	2.010	.09150	.45790	.13160	-.40360	.02690	.75140	.05490	-.47320	-.05490	.69640
.902	4.040	.14640	.74910	.12930	-.39600	.01040	.76120	.05180	.00400	-.05180	.70940
.902	6.050	.27730	1.00760	.13230	-.45420	-.00930	.76310	.05850	.19190	-.05850	.70450
.902	8.100	.42120	1.28900	.12540	-.45430	-.02770	.78030	.06690	.26540	-.06690	.71330
.902	12.040	.54260	1.66940	.10390	-.45150	-.06870	.78960	.07130	.23740	-.07130	.71690
.902	-.010	-.12350	.21960	.10890	-.39900	-.02370	.74990	.05270	.07660	-.05270	.69710
GRADIENT		.06248	.14972	.00764	.01005	-.00414	-.00302	-.00244	-.05623	.00244	-.00090

NSFC 987(FA4) TITAN III C SRN (MDETP)

(897081) (23 APR 74)

REFERENCE DATA

SREF = .6388 SQ. IN XMP = 4.0338 IN.
 LREF = .9088 IN. YMP = .0009 IN.
 BREF = .9088 IN. ZMP = .0008 IN.
 SCALE = .0074

BETA = .000 PWT = 100.000

PARAMETRIC DATA

RUN NO. 100/ 0 RM/L = 0.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTW	CBL	CA	CAB	KCP/L	CPB1	CAF
1.193	-10.140	-0.9310	-1.34210	-0.0020	-0.4240	.05260	1.21370	.22190	.46940	-.22190	.99100
1.193	-8.190	-0.70200	-0.98070	-0.0075	-0.38980	.04350	1.19140	.20330	.48880	-.20330	.98800
1.193	-6.180	-0.58170	-0.85640	.01220	-0.34440	.05650	1.17490	.18870	.50860	-.18870	.98810
1.193	-4.120	-0.43930	-0.72090	.05090	-0.28330	.04040	1.17390	.18550	.55900	-.18550	.99100
1.193	-2.070	-0.27780	-0.53100	.03780	-0.24440	.05060	1.17580	.17290	.63700	-.17290	1.00290
1.193	-0.010	-0.13670	-0.26430	.04230	-0.27580	.02810	1.15500	.16430	.89420	-.16430	.99140
1.193	2.020	.02320	.58310	.09950	-0.29090	.00510	1.14500	.16480	-2.33430	-.16480	.98020
1.193	4.040	.16300	.97220	.12980	-0.26710	-0.01360	1.17190	.17550	-.01720	-.17550	.98830
1.193	6.110	.30610	1.20060	.19650	-0.25500	-0.05860	1.19780	.19000	.19520	-.19000	.99780
1.193	8.180	.52260	1.53370	.28620	-0.24620	-0.08490	1.22050	.21470	.28000	-.21470	1.20580
1.193	10.110	.72010	1.89030	.38680	-0.24470	-0.12720	1.21870	.22470	.32630	-.22470	.99400
1.193	-0.010	-0.10920	.24480	.08630	-0.31800	.02430	1.13700	.16890	.93520	-.16890	.98810
GRADIENT		.07382	.14684	.01329	-.00946	-.00138	-.00204	-.00138	-.21116	.00138	-.00007

RUN NO. 120/ 0 RM/L = 0.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	C/W	CBL	CA	CAB	KCP/L	CPB1	CAF
1.958	-10.210	-0.91780	-1.79960	-0.12220	-.22850	.04390	.92230	.12740	.40330	-.12740	.79480
1.958	-8.230	-0.70180	-1.33220	-0.08950	-.12030	.04640	.90360	.11790	.41120	-.11790	.78360
1.958	-6.190	-0.52420	-0.94970	-0.07140	-.14660	.03820	.88410	.10340	.42310	-.10340	.78070
1.958	-4.140	-0.35210	-0.58820	-0.03940	-.11900	.03810	.89710	.09160	.44010	-.09160	.80340
1.958	-2.090	-0.19360	-0.25410	-.00420	-.10900	.02800	.88350	.08120	.48540	-.08120	.80210
1.958	-.020	-0.09990	.07940	.02200	-.10860	.00420	.87790	.08170	.61920	-.08170	.79810
1.958	2.030	.09940	.47970	.04710	-.13310	-.01270	.86230	.08900	.04090	-.08900	.79320
1.958	4.090	.29000	.84930	.08210	-.12790	-.03260	.82170	.09390	.22290	-.09390	.79770
1.958	6.150	.43670	1.24950	.09950	-.13250	-.06060	.82080	.10050	.28940	-.10050	.82020
1.958	8.220	.69590	1.68390	.11760	-.12100	-.10050	.84310	.11620	.32640	-.11620	.82680
1.958	10.190	.97660	2.09480	.09090	-.11300	-.13560	.95970	.12980	.36340	-.12980	.83390
1.958	.000	-0.00050	.15610	.02240	-.11090	.00870	.84440	.07790	34.46050	-.07790	.78890
GRADIENT		.07203	.17535	.01430	-.00242	-.00087	-.00057	.00060	-.04264	-.00060	-.00016



NSPC 507 (P44) TITAN III C 88H (INDTYP)

(INPT081) (23 APR 74)

REFERENCE DATA

9REF = .0300 94. IN TMRP = 4.0330 IN.
 1REF = .0000 IN. TMRP = .0000 IN.
 2REF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 29/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 9.00

NACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	-10.220	-0.9130	-1.0730	-0.1270	0.0270	0.0170	7.5400	0.0630	.4210	-.00830	.00700
3.450	-0.200	-0.0700	-1.3790	-0.1100	0.0100	0.0470	7.3900	0.0300	.4020	-.05000	.00150
3.400	-0.240	-0.4750	-0.7300	-0.1010	-0.0470	0.0320	7.2770	0.0360	.39210	-.05300	.07430
3.400	-4.200	-0.3120	-0.0200	-0.00700	-0.04370	0.02740	7.1970	0.0400	.39740	-.04000	.07310
3.400	-2.170	-0.1720	-0.3100	-0.0230	-0.0660	0.01970	7.0970	0.04300	.42390	-.04300	.00070
3.400	-.130	0.00300	0.0900	-0.0230	-0.0040	0.0040	6.9800	0.0340	-1.9050	-.0340	.05000
3.400	1.000	0.1400	0.4130	0.0100	-0.0730	0.0090	7.1570	0.0420	.2760	-.0420	.07390
3.400	3.920	0.2640	0.7400	0.0270	-0.0760	-0.0190	7.2050	0.0430	.09700	-.0430	.00940
3.400	5.940	0.4500	1.0030	0.0370	-0.0760	-0.0390	7.4450	0.0490	.35070	-.0490	.09490
3.400	0.010	0.0930	1.4320	0.0670	-0.0410	-0.0190	7.6920	0.0600	.39100	-.0600	.08000
3.400	0.970	0.2400	1.7140	0.0670	-0.01475	-0.0170	7.6760	0.0640	.41000	-.0640	.07310
3.400	-.130	0.00300	0.0300	-0.0200	-0.0710	0.0140	6.9900	0.0340	-.42670	-.0340	.00140
3.400	GRADIENT	0.07240	0.1710	0.01234	-0.00212	-0.00360	0.00116	-0.00039	-.01740	0.00039	0.00154

RUN NO. 30/ 0 RM/L = 4.96 GRADIENT INTERVAL = -9.00/ 5.00

NACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
4.950	-10.110	-0.6150	-1.4610	-0.1160	0.0560	0.0670	6.9760	0.0270	.42470	-.0270	.03000
4.950	-0.190	-0.0000	-1.1930	-0.1030	0.0260	0.0430	6.9400	0.0400	.39440	-.0400	.00050
4.950	-0.100	-0.4730	-1.0140	-0.1200	-0.0400	0.0370	6.0520	0.0350	.38040	-.0230	.00160
4.950	-4.100	-0.0300	-0.0300	-0.1040	-0.00270	0.0260	6.1020	0.0230	.36540	-.0220	.00700
4.950	-2.150	-0.1000	-0.3950	-0.0910	-0.0730	0.0100	6.9610	0.0210	.38000	-.0210	.07430
4.950	-.130	0.0070	0.0390	-0.0740	-0.1190	0.0120	6.0200	0.0130	.02200	-.0210	.05000
4.950	1.000	0.1720	0.3050	0.0080	-0.0600	-0.0060	6.9410	0.0250	.37210	-.0250	.07150
4.950	3.000	0.2020	0.6500	0.0070	-0.0090	-0.0090	6.2000	0.0300	.36300	-.0300	.00490
4.950	5.000	0.4240	0.9120	0.0320	-0.0460	-0.0460	6.3110	0.0350	.37950	-.0350	.00550
4.950	7.920	0.7000	1.2910	0.0660	-0.0290	-0.0290	6.6610	0.0200	.41070	-.0200	.03000
4.950	0.950	0.0700	1.5350	0.0770	-0.0240	-0.0240	6.0000	0.0290	.43030	-.0290	.08700
4.950	-.130	0.0340	0.0510	-0.0660	-0.0310	0.0190	6.0250	0.0230	.45070	-.0230	.07910
4.950	GRADIENT	0.07659	0.1666	0.01000	-0.00052	-0.00360	0.00106	0.00010	-.00309	0.00010	0.00154

MOPC 987 (FA4) TITAN III C SON (MDETP)

(ROTUSE) : 22 APR 74)

REFERENCE DATA

DEPT = .0300 90. IN ZMRP = 4.6338 IN.
LREF = .0000 IN. ZMRP = .0000 IN.
DEPT = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 369/ 0 RM/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CVMH	CSL	CA	CAB	KCP/L	CPBI	CAF
.998	10.920	.91220	1.33500	.20290	-.36650	-.05840	.00950	.05490	.31800	-.05490	.58400
.998	12.440	.70070	1.61030	.21940	-.38390	-.10390	.61440	.05370	.32820	-.05370	.35000
.998	14.440	.91310	2.10290	.22980	-.38700	-.13970	.61710	.06370	.36000	-.06370	.93330
.998	16.400	1.11190	2.43350	.30000	-.29830	-.16130	.63020	.07570	.37440	-.07570	.95450
.998	18.490	1.38430	2.80280	.42830	-.35050	-.20090	.63500	.09180	.39530	-.09180	.94120
.998	20.540	1.59950	3.06640	.53560	-.32810	-.25910	.62330	.11750	.40730	-.11750	.90500
.998	22.570	1.82900	3.42570	.68390	-.36770	-.31720	.62110	.16370	.42670	-.16370	.48340
.998	24.600	2.10350	3.80100	.87250	-.40170	-.37070	.61250	.17080	.43130	-.17080	.44180
.998	26.610	2.51180	4.19830	.87080	-.51170	-.42360	.59090	.19490	.43990	-.19490	.40390
.998	28.680	2.76430	4.59930	.72930	-.45070	-.45820	.57380	.20990	.44730	-.20990	.36300
.998	30.600	3.09220	5.07890	.58750	-.42730	-.51780	.55630	.22050	.44380	-.22050	.31570
.998	20.540	1.59330	3.07370	.95900	-.32060	-.28560	.62460	.12130	.40730	-.12130	.50320
GRADIENT		.12753	.17340	.63195	-.00528	-.02293	-.00281	.00946	.00673	-.00946	-.01228

RUN NO. 370/ 0 RM/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CVMH	CSL	CA	CAB	KCP/L	CPBI	CAF
.909	10.990	.58990	1.55820	.06590	-.45900	-.06820	.81390	.00370	.31760	-.00370	.73010
.909	12.930	.70630	1.87420	.06830	-.40390	-.11250	.81720	.08740	.34280	-.08740	.72970
.909	14.950	1.00010	2.21460	.10920	-.35520	-.14910	.78210	.09530	.37120	-.09530	.69680
.909	16.800	1.24380	2.57860	.22030	-.28900	-.20440	.78530	.11390	.38910	-.11390	.67140
.909	18.980	1.55770	3.05370	.39850	-.24270	-.24640	.70630	.13820	.40340	-.13820	.65110
.909	20.740	1.85980	3.46370	.70320	-.27690	-.31390	.70090	.15940	.41310	-.15940	.62130
.909	22.810	2.13820	4.07860	.51970	-.27020	-.35710	.75280	.16880	.41000	-.16880	.58400
.909	24.000	2.47490	4.71000	.62010	-.28830	-.40870	.73410	.18350	.41030	-.18350	.55050
.909	26.970	2.87340	5.51720	.79750	-.31090	-.48000	.70940	.20150	.40850	-.20150	.50790
.909	29.080	3.30010	6.46060	.47210	-.28690	-.51640	.66020	.20360	.40370	-.20360	.45630
.909	31.090	3.81190	7.23670	-.29470	-.55480	-.53250	.60850	.20730	.41120	-.20730	.40120
.909	20.720	1.84230	3.50330	.67350	-.25840	-.32550	.77870	.15930	.41070	-.15930	.61930
GRADIENT		.19407	.27360	.01148	.00036	-.02402	-.00901	.00695	.00363	-.00695	-.01596



TABULATED SOURCE DATA, NSFC TWT 907

DATE 11 JUL 74

NSFC 907(F44) TITAN III C SRM (MBETP) (897002) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .0300 IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 171/ 0 RN/L = 6.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYH	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.199	10.660	.71010	1.8027C	.23090	-.29330	-.12730	1.20930	.23130	.31990	-.23130	.87700
1.199	12.620	.92660	2.25610	.27210	-.23060	-.16360	1.20930	.24290	.34330	-.24290	.96640
1.199	14.670	1.20030	2.71660	.32110	-.26990	-.21710	1.20910	.25190	.36900	-.25190	.99620
1.199	16.730	1.52230	3.23130	.35140	-.28800	-.25430	1.21670	.26620	.39290	-.26620	.94630
1.199	18.800	1.89990	3.81800	.31180	-.22600	-.29940	1.20940	.27640	.39570	-.27640	.93300
1.199	20.970	2.30030	4.49270	.26370	-.21550	-.34000	1.19390	.28790	.40510	-.28790	.90610
1.199	23.090	2.76390	5.24340	.39590	-.26310	-.41690	1.19980	.28990	.41130	-.28990	.87290
1.199	25.220	3.27320	6.09350	.51270	-.36440	-.47490	1.14590	.30430	.41600	-.30430	.84140
1.199	27.350	3.83480	7.00310	.63900	-.42160	-.53060	1.10760	.31130	.42030	-.31130	.79640
1.199	29.520	4.47230	7.96310	.69900	-.50120	-.59300	1.09640	.34840	.42990	-.34840	.73100
1.199	31.870	5.10270	8.98210	.76700	-.52940	-.63460	1.08620	.37390	.43610	-.37390	.71270
1.199	20.980	2.33320	4.32350	.30270	-.22750	-.34860	1.19440	.29200	.40630	-.29200	.90230
GRADIENT		.20957	.33077	.02230	-.01242	-.02471	-.00675	.00597	.00515	-.00597	-.01272

RUN NO. 121/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYH	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.961	10.750	.91910	2.13570	.12330	-.20010	-.12930	.90950	.13840	.35740	-.13840	.89110
1.961	12.730	1.22340	2.56610	.11260	-.16950	-.16270	1.00090	.14600	.38700	-.14600	.83480
1.961	14.600	1.60840	3.03090	.10030	-.12270	-.19270	1.02120	.15610	.41300	-.15610	.86300
1.961	16.910	2.02990	3.56270	.16340	-.13460	-.22270	1.03420	.16710	.42810	-.16710	.86700
1.961	19.010	2.43990	4.09730	.23420	-.15990	-.25460	1.04420	.17930	.43690	-.17930	.86490
1.961	21.130	2.89890	4.59210	.32910	-.17540	-.28120	1.06360	.18660	.45130	-.18660	.87490
1.961	23.270	3.38640	5.04460	.44160	-.23500	-.31350	1.09150	.20240	.46160	-.20240	.89310
1.961	25.300	3.86350	5.55960	.49320	-.19140	-.34780	1.10260	.21020	.46950	-.21020	.89230
1.961	27.460	4.34330	5.95730	.50040	-.14060	-.37920	1.10990	.21690	.47790	-.21690	.89210
1.961	29.560	4.82150	6.32680	.51230	-.07320	-.40360	1.11750	.21350	.48540	-.21350	.90370
1.961	31.590	5.32740	6.76290	.51110	-.01050	-.43680	1.12200	.22200	.49090	-.22200	.90000
1.961	21.130	2.91320	4.53770	.31310	-.16940	-.27310	1.09610	.18990	.45430	-.18990	.87010
GRADIENT		.21347	.22505	.02416	-.00470	-.01460	-.00683	.00422	.00569	-.00422	-.00561

NSFC 507(74A) TITAN III C SRM (HNETP)

(R97002) (23 APR 74)

REFERENCE DATA

SREF = .0300 30. IN XIMP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 BREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 32/ 0 RM/L = 0.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
3.400	10.510	.07300	1.77970	.08600	-.01320	-.09250	.81090	-.06420	-.42020	-.00620	.74480
3.400	12.480	1.23930	2.11910	.10420	-.01100	-.11060	.83590	.07060	.43510	-.07060	.76530
3.400	14.510	1.51010	2.46940	.12890	-.02730	-.12300	.84680	.07220	.44560	-.07220	.77450
3.400	16.920	1.83300	2.83310	.15600	-.01380	-.15100	.86080	.07310	.45590	-.07310	.78370
3.400	19.870	2.18700	3.22710	.20220	-.03660	-.19940	.86650	.07470	.46470	-.07470	.81100
3.400	22.750	2.52750	3.54050	.23390	-.03900	-.20410	.89410	.07350	.47420	-.07350	.83050
3.400	24.780	2.81880	3.90540	.27940	-.04600	-.22340	.90410	.07300	.48210	-.07300	.86390
3.400	26.830	3.20140	4.22010	.30800	-.04450	-.26300	.92720	.07500	.49340	-.07500	.89770
3.400	28.910	4.10400	5.02600	.37850	-.04420	-.29920	1.00590	.07520	.49340	-.07520	.93060
3.400	30.900	4.52360	5.45690	.41470	-.03750	-.32500	1.03990	.07330	.49850	-.07330	.96830
3.400	20.970	2.52810	3.51280	.23460	-.03110	-.35260	1.05800	.07160	.49880	-.07160	.90610
GRADIENT		-.17532	-.17722	.01830	.00217	-.01319	.01245	.00020	.00385	-.00020	.01224

RUN NO. 31/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPBI	CAF
4.959	10.590	-.07840	1.56530	.08500	-.03770	-.09850	.74240	.02680	.42510	-.02680	.71360
4.959	12.310	1.07300	1.84070	.09710	-.06090	-.11090	.76930	.02930	.43450	-.02930	.73990
4.959	14.350	1.32910	2.18000	.10990	-.05310	-.12050	.77930	.03060	.44300	-.03060	.74970
4.959	16.350	1.64040	2.48470	.12490	-.01240	-.13520	.81270	.03080	.45980	-.03080	.78160
4.959	18.370	1.94910	2.78150	.16700	-.01290	-.16240	.84310	.03230	.47090	-.03230	.81070
4.959	20.400	2.34360	3.14220	.21000	-.01770	-.21020	.87790	.03160	.48180	-.03160	.84630
4.959	22.440	2.60090	3.48950	.23360	-.09480	-.23390	.92870	.03210	.48670	-.03210	.89650
4.959	24.450	3.04930	3.83100	.28100	-.09850	-.23390	.98040	.03080	.49250	-.03080	.94990
4.959	26.460	3.41630	4.23490	.30700	-.02310	-.28920	.99990	.02960	.49460	-.02960	.97030
4.959	28.500	3.78330	4.51490	.34920	-.00820	-.33070	1.04280	.02800	.50040	-.02800	1.01470
4.959	30.450	4.20980	4.96280	.36110	-.06360	-.34370	1.07540	.02530	.50230	-.02530	1.05000
4.959	20.400	2.34480	3.17390	.21020	.04740	-.18280	.88780	.03030	.48020	-.03030	.83750
GRADIENT		-.18835	-.18788	.01525	.00290	-.01313	.01733	-.00012	.00399	-.00012	.01745



DATE 11 JUL 74
 TABULATED SOURCE DATA, MSFC TWT 507
 MSFC 907 (F44) TITAN III C SRM (MDETP)

(R97003) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

SIZE = .6300 IN ZMRP = 4.6330 IN.
 LREQ = .9000 IN. YMRP = .0000 IN.
 DREQ = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0574

RUN NO. 172/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTHM	CBL	CA	CAB	ICP/L	CPB1	CAF
1.198	31.790	5.14700	6.62120	.71480	-.41990	-.64990	1.03090	.30810	.43950	-.30810	.72270
1.198	33.930	5.77900	9.42950	.80440	-.49290	-.66340	1.02190	.32020	.44490	-.32020	.69330
1.198	35.950	6.48200	10.11220	.92870	-.79120	-.79120	1.02710	.36520	.45240	-.36520	.66100
1.198	38.000	7.09700	10.78930	1.00280	-1.02110	-.77420	1.00690	.39150	.45920	-.39150	.61450
1.198	40.210	7.70270	11.40100	1.13280	-1.09000	-.80410	.97550	.41690	.46410	-.41690	.55090
1.198	42.360	8.34420	11.92930	1.29060	-1.11800	-.84390	.93560	.43900	.47060	-.43900	.49660
1.198	44.400	8.97700	12.52940	1.38750	-1.12100	-.87450	.87790	.45950	.47440	-.45950	.41640
1.198	46.400	9.50730	13.05290	1.39030	-1.09720	-.89660	.82140	.46670	.47800	-.46670	.35470
1.198	48.000	10.03610	13.56930	1.36930	-1.13230	-.92940	.75810	.46040	.48040	-.46040	.23090
1.198	50.010	10.52170	14.08270	1.37560	-1.18920	-.95130	.68790	.45690	.48210	-.45690	.13090
1.198	52.790	10.97000	14.56960	1.37370	-1.09130	-.97020	.60520	.46870	.48180	-.46870	.01640
1.198	42.370	8.35310	11.90220	1.27330	-1.16950	-.89030	.93540	.43220	.47110	-.43220	.50310
1.198	GRADIENT	.27766	.27705	.03414	-.03162	-.01942	-.02036	.01276	.00212	-.01276	-.03314

RUN NO. 33/ 0 RM/L = 0.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTHM	CBL	CA	CAB	ICP/L	CPB1	CAF
3.400	31.000	4.61220	5.32920	.44040	.02510	-.36990	1.00710	.08500	.49990	-.08500	1.00130
3.400	32.960	5.02700	5.93770	.47950	-.01240	-.38910	1.10560	.09390	.50200	-.09390	1.02170
3.400	35.030	5.44410	6.32420	.51940	-.05790	-.43220	1.11610	.07960	.50440	-.07960	1.03640
3.400	37.100	5.89900	6.73330	.55650	-.07430	-.44990	1.13740	.07770	.50660	-.07770	1.05960
3.400	39.160	6.32860	7.13000	.60330	-.12970	-.47970	1.14450	.07530	.50850	-.07530	1.06910
3.400	41.230	6.76890	7.53990	.65990	-.20820	-.51610	1.13940	.07550	.51050	-.07550	1.06390
3.400	43.290	7.22420	7.93190	.70980	-.28460	-.54820	1.12900	.08160	.51250	-.08160	1.04730
3.400	45.360	7.67430	8.33050	.76990	-.34430	-.58010	1.12120	.08810	.51410	-.08810	1.03310
3.400	47.400	8.09200	8.67960	.83220	-.40670	-.60990	1.09450	.08660	.51570	-.08660	1.00810
3.400	49.490	8.54460	9.06240	.90330	-.48020	-.64900	1.07100	.08620	.51690	-.08620	.98480
3.400	51.470	8.96010	9.40080	.98080	-.56780	-.68510	1.04490	.08260	.51870	-.08260	.96200
3.400	41.230	6.78300	7.56760	.65320	-.21480	-.48640	1.14500	.07800	.51030	-.07800	1.06690
3.400	GRADIENT	.21304	.18989	.02366	-.02925	-.01334	-.00204	.00021	.00091	-.00021	-.00226

WSPC 507(UAA) TITAN III C SRM (UBETP)

(R07004) (23 APR 74)

REFERENCE DATA

SREF = .0300 30. IN KEXP = 4.0330 IN.
 LREF = .0000 IN. YIMP = .0000 IN.
 SREF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHE = 100.000

RUN NO. 205/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	50.420	0.07610	9.77610	-.33240	-4.71020	-.90330	.34990	.00000	.44760	.00000	.34990
.001	52.330	0.39040	10.22170	-.13100	-4.60970	-.94940	.27720	.00000	.44930	.00000	.27720
.001	54.320	0.80590	10.62270	.37170	-4.55870	-1.05070	.20020	.00000	.43390	.00000	.20020
.001	56.350	7.00090	10.94750	.67650	-4.09880	-1.06480	.13160	.00000	.43160	.00000	.13160
.001	58.330	7.27240	11.17050	.75470	-3.73790	-1.09750	.06360	.00000	.43710	.00000	.06360
.001	60.360	7.48030	11.45790	.81200	-3.42560	-1.13540	-.00810	.00000	.43760	.00000	-.00810
.001	62.360	7.69720	11.72630	.89500	-2.97100	-1.17110	-.07350	.00000	.43660	.00000	-.07350
.001	64.370	7.85420	12.06760	1.06410	-.56230	-1.18060	-.13430	.00000	.43700	.00000	-.13430
.001	66.370	8.0101	11.97160	2.00130	.54300	-1.23150	-.21910	.00000	.46230	.00000	-.21910
.001	68.360	8.04520	11.70930	2.05000	.72210	-1.25000	-.25190	.00000	.46730	.00000	-.25190
.001	70.270	8.01270	11.15030	2.04420	.60980	-1.28360	-.25170	.00000	.47370	.00000	-.25170
.001	60.360	7.53770	11.50190	.02450	-3.37870	-1.13950	.00040	.00000	.45830	.00000	.00040
GRADIENT		.09951	.08921	.13059	.32533	-.01779	-.03185	.00000	.00109	.00000	-.03185

RUN NO. 206/ 0 RM/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
.003	50.630	0.07240	14.76200	1.28400	-.83270	-.94710	.51100	.00000	.41630	.00000	.51100
.003	52.720	0.39030	15.09320	1.27050	-1.00260	-.99050	.45120	.00000	.42460	.00000	.43120
.003	54.690	0.81960	15.13030	1.54890	-.90180	-1.06430	.39470	.00000	.43430	.00000	.39470
.003	56.700	0.09370	14.90530	1.65450	-.84690	-1.10290	.33570	.00000	.44410	.00000	.33570
.003	58.660	9.16620	13.97950	1.73950	-.76670	-1.14990	.35450	.00000	.45850	.00000	.35450
.003	60.650	9.29420	13.76360	1.73950	-.87110	-1.17940	.32450	.00000	.46400	.00000	.32450
.003	62.640	9.42090	13.25690	1.75700	-.81210	-1.21640	.30720	.00000	.47330	.00000	.30720
.003	64.610	9.43550	12.54440	1.77070	-.80090	-1.24780	.33430	.00000	.48320	.00000	.33430
.003	66.590	9.57230	12.19030	1.84370	-.84200	-1.27100	.33780	.00000	.49030	.00000	.33780
.003	68.570	9.70470	11.79210	1.92160	-.87440	-1.30060	.32240	.00000	.49780	.00000	.32240
.003	70.450	9.76930	11.26010	1.98920	-.91570	-1.33800	.31360	.00000	.50560	.00000	.31360
.003	60.660	9.35920	13.81550	1.73870	-.91480	-1.18900	.33360	.00000	.46460	.00000	.33360
GRADIENT		.07909	-.20724	.03351	.00404	-.01937	-.00793	.00000	.00456	.00000	-.00793



TABULATED SOURCE DATA, NSFC TWT 907

DATE 11 JUN 74

NSFC 50717AA) TITAN III C SRN (MBETP)

(897504) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

SIZE = .0300 IN XIMP = 4.0338 IN.
LREQ = .0000 IN. YIMP = .0000 IN.
DREQ = .0000 IN. ZIMP = .0000 IN.
SCALE = .0074

RUN NO. 207/ 0 RM/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	ICP/L	CPB1	CAF
1.198	50.900	9.34006	13.30360	1.21106	-1.17090	-9.0030	.09770	.00000	.47430	.00000	.09770
1.198	52.770	10.01400	13.60090	1.35350	-1.10700	-9.9060	.79830	.00000	.47950	.00000	.79830
1.198	54.770	10.34300	13.73750	1.39440	-9.7480	-9.9610	.73510	.00000	.48330	.00000	.73510
1.198	56.780	10.60380	13.83300	1.42850	-9.6350	-1.00770	.68890	.00000	.48730	.00000	.68890
1.198	58.790	10.99210	13.87370	1.43470	-1.03000	-1.03320	.61800	.00000	.49400	.00000	.61800
1.198	60.770	11.37290	13.80330	1.49430	-9.9660	-1.06520	.37990	.00000	.49780	.00000	.37990
1.198	62.790	11.71580	13.93020	1.53350	-1.05180	-1.10000	.33150	.00000	.50100	.00000	.33150
1.198	64.790	12.01850	13.99340	1.57770	-1.07700	-1.12360	.49170	.00000	.50410	.00000	.49170
1.198	66.790	12.27850	13.87610	1.64270	-1.05170	-1.14460	.45610	.00000	.50840	.00000	.45610
1.198	68.790	12.46680	13.54870	1.68680	-1.03830	-1.16420	.43120	.00000	.51600	.00000	.43120
1.198	70.820	12.62670	12.97530	1.80390	-1.00320	-1.17070	.43580	.00000	.52140	.00000	.43580
1.198	66.760	11.30040	13.77900	1.47810	-1.00570	-1.07210	.57590	.00000	.49800	.00000	.57590
GRADIENT		.13761	-.00911	.02100	.00124	-.01406	-.02186	.00000	.00227	.00000	-.02186

RUN NO. 253/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CMW	CLMW	CTM	CTMM	CBL	CA	CAB	ICP/L	CPB1	CAF
1.947	50.750	9.05180	10.02510	.91430	-.42970	-.74550	1.04490	.00000	.51130	.00000	1.04490
1.947	52.660	9.46220	10.33020	.97030	-.47990	-.77520	1.02020	.00000	.51330	.00000	1.02020
1.947	54.690	9.94870	10.77900	1.01020	-.48030	-.81730	.90610	.00000	.51480	.00000	.90610
1.947	56.700	10.37080	11.01400	1.08390	-.54120	-.84650	.94840	.00000	.51710	.00000	.94840
1.947	58.710	10.74640	11.25930	1.13950	-.56830	-.87470	.91370	.00000	.51890	.00000	.91370
1.947	60.740	11.18160	11.35580	1.17740	-.60370	-.90900	.88480	.00000	.52290	.00000	.88480
1.947	62.740	11.40950	11.39330	1.23590	-.63520	-.93720	.83960	.00000	.52550	.00000	.83960
1.947	64.730	11.75150	11.40400	1.28540	-.71706	-.96650	.79490	.00000	.52870	.00000	.79490
1.947	66.720	12.13120	11.52150	1.34800	-.79660	-.99490	.75710	.00000	.53130	.00000	.75710
1.947	68.740	12.39290	11.53390	1.39680	-.78510	-.92650	.72000	.00000	.53370	.00000	.72000
1.947	70.810	12.53200	11.41430	1.43190	-.84200	-.95150	.68340	.00000	.53620	.00000	.68340
1.947	66.690	10.97310	11.01020	1.16740	-.59910	-.89500	.86480	.00000	.52450	.00000	.86480
GRADIENT		-.17796	-.06823	.02638	-.02071	-.01547	-.01854	.00000	.00130	.00000	-.01854

HSPC 307 (744) TITAN III C SRN (MDETP)

(807004) (23 APR 74)

REFERENCE DATA

WREF = .0300 IN XREF = 4.0000 IN.
 LREF = .0000 IN. YREF = .0000 IN.
 WREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 292/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	50.310	0.29400	0.56700	.04470	-.55060	-.07600	1.11770	.00000	.52070	.00000	1.11770
3.400	52.410	0.67160	0.78410	.09450	-.63420	-.71740	1.06900	.00000	.52330	.00000	1.06900
3.400	54.420	0.12450	0.00070	.05000	-.70030	-.75720	1.06940	.00000	.52350	.00000	1.06940
3.400	56.430	0.53470	0.39030	1.02300	-.74050	-.78000	1.04140	.00000	.52700	.00000	1.04140
3.400	58.400	0.91140	0.65340	1.00600	-.84220	-.82000	1.00030	.00000	.52820	.00000	1.00030
3.400	60.470	10.20000	0.93070	1.15030	-.80000	-.84500	.97250	.00000	.52900	.00000	.97250
3.400	62.400	10.60200	10.13750	1.23220	-.91110	-.89000	.92600	.00000	.53050	.00000	.92600
3.400	64.400	10.90210	10.17000	1.30300	-.94230	-.91200	.88360	.00000	.53340	.00000	.88360
3.400	66.400	11.20320	10.37190	1.35340	-1.01010	-.94700	.85990	.00000	.53430	.00000	.85990
3.400	70.400	11.47720	10.40000	1.41010	-1.02900	-.90300	.79230	.00000	.53000	.00000	.79230
3.400	70.370	11.72010	10.54750	1.45750	-1.04470	-1.00000	.74900	.00000	.53770	.00000	.74900
3.400	60.450	10.24100	0.89040	1.15070	-.86300	-.82770	.97350	.00000	.52920	.00000	.97350
GRADIENT	.17311		.10230	.03207	-.02500	-.01642	-.01871	.00000	.00001	.00000	-.01871

RUN NO. 293/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMN	CLMN	CYN	CTMN	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	50.330	0.19090	0.24000	.09730	-.83170	-.60750	1.18510	.00000	.52410	.00000	1.18510
4.939	52.210	0.57100	0.90320	.05320	-.71600	-.69970	1.16050	.00000	.52390	.00000	1.16050
4.939	54.240	0.05050	0.60200	1.01050	-.73370	-.72000	1.14010	.00000	.52840	.00000	1.14010
4.939	56.240	0.49930	0.17270	1.00020	-.79600	-.78510	1.08020	.00000	.52930	.00000	1.08020
4.939	58.270	0.92150	0.43050	1.13000	-.80100	-.79050	1.07320	.00000	.53120	.00000	1.07320
4.939	60.270	10.25350	0.80500	1.21370	-.92030	-.84540	1.02600	.00000	.53190	.00000	1.02600
4.939	62.270	10.61790	0.90200	1.30190	-.93000	-.89990	.96100	.00000	.53270	.00000	.96100
4.939	64.200	10.95430	10.21750	1.35790	-1.05000	-.93570	.90000	.00000	.53340	.00000	.90000
4.939	66.200	11.25920	10.41030	1.41400	-1.00040	-.96010	.85000	.00000	.53440	.00000	.85000
4.939	68.200	11.54130	10.47340	1.47300	-1.09030	-.99430	.80730	.00000	.53660	.00000	.80730
4.939	70.100	11.81900	10.49250	1.50330	-1.07000	-1.01240	.77420	.00000	.53740	.00000	.77420
4.939	60.250	10.22420	0.80150	1.21920	-.92040	-.83700	1.03490	.00000	.53190	.00000	1.03490
GRADIENT	.10320		.12467	.03210	-.02400	-.01044	-.02102	.00003	.00562	.00000	-.02102



TABULATED SOURCE DATA, MSFC TWT 307

MSFC 507(P44) TITAN III C SRM (MSZTP)

DATE 11 JUL 74

(897003) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 100.500

REFERENCE DATA

REF = .0360 IN XREF = 4.0330 IN.

LEEF = .0000 IN. YREF = .0000 IN.

REF = .0000 IN. ZREF = .0000 IN.

SCALE = .0074

RUN NO. 204/ 0 RM/L = 4.91 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CTW	CYMW	CBL	CA	CAB	XCF/L	CPB1	CAF
.996	70.430	7.98330	10.98300	2.11320	.53070	-1.34710	-1.16000	.00000	.00000	.47700	.00000	-.11600
.996	72.300	7.90360	10.04010	2.19810	.49900	-1.37100	-.03440	.00000	.00000	.49070	.00000	-.03440
.996	74.230	7.81790	8.98440	2.19750	.31460	-1.39820	.09730	.00000	.00000	.50600	.00000	.09730
.996	76.240	7.91550	8.52290	2.23080	.11870	-1.43090	.09590	.00000	.00000	.51520	.00000	.09590
.996	76.230	7.92010	7.95160	2.20390	-.39530	-1.43670	.13570	.00000	.00000	.52440	.00000	.13570
.996	80.230	7.98350	7.41410	2.17450	-.66900	-1.44960	.17680	.00000	.00000	.53360	.00000	.17680
.996	82.220	8.09950	7.04210	2.11630	-.69290	-1.46800	.16750	.00000	.00000	.54130	.00000	.16750
.996	84.210	8.13350	6.56030	2.06890	-.69750	-1.47480	.15830	.00000	.00000	.54940	.00000	.15830
.996	86.170	8.15490	6.07040	2.09400	-.78910	-1.47940	.15770	.00000	.00000	.55750	.00000	.15770
.996	88.160	8.21720	5.64250	2.17650	-.91460	-1.49750	.15630	.00000	.00000	.56460	.00000	.15630
.996	90.070	8.18960	5.23150	2.21920	-1.01320	-1.51620	.14760	.00000	.00000	.57060	.00000	.14760
.996	90.230	8.00330	7.45480	2.16830	-.65670	-1.45110	.18340	.00000	.00000	.53360	.00000	.18340
GRADIENT		.01832	-.27348	-.00033	-.00483	-.00786	.01073	.00000	.00000	.00461	.00000	.01073

RUN NO. 203/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CTW	CYMW	CBL	CA	CAB	XCF/L	CPB1	CAF
.900	70.610	9.77400	11.23930	2.09300	-1.05300	-1.34770	.33960	.00000	.00000	.50590	.00000	.33960
.900	72.490	9.88100	10.78390	2.13840	-1.09000	-1.37560	.33370	.00000	.00000	.51330	.00000	.33370
.900	74.430	10.01160	10.36060	2.20370	-1.16940	-1.39700	.31670	.00000	.00000	.52050	.00000	.31670
.900	76.430	10.13590	9.89450	2.27380	-1.22890	-1.42310	.28660	.00000	.00000	.52790	.00000	.28660
.900	78.410	10.26240	9.52790	2.31880	-1.33070	-1.44370	.26230	.00000	.00000	.53400	.00000	.26230
.900	80.410	10.33770	9.21250	2.19910	-1.26260	-1.44590	.25420	.00000	.00000	.53870	.00000	.25420
.900	82.400	10.47710	8.92080	2.21220	-1.32290	-1.44700	.24030	.00000	.00000	.54370	.00000	.24030
.900	84.390	10.47750	8.47640	2.22640	-1.43990	-1.46410	.23320	.00000	.00000	.54910	.00000	.23320
.900	86.340	10.49490	8.06820	2.27580	-1.48660	-1.47820	.22380	.00000	.00000	.55420	.00000	.22380
.900	88.340	10.59220	7.71790	2.28720	-1.52510	-1.48080	.20920	.00000	.00000	.55930	.00000	.20920
.900	90.230	10.63500	7.36340	2.27950	-1.52890	-1.48390	.17090	.00000	.00000	.56390	.00000	.17090
.900	90.400	10.50110	9.37850	2.22200	-1.26930	-1.44970	.23310	.00000	.00000	.53850	.00000	.23310
GRADIENT		.04376	-.19333	.00731	-.02933	-.00659	-.00622	.00000	.00000	.00289	.00000	-.00822

(R07805) (23 APR 74)

NSFC 507(P44) TITAN III C 3RM (MDETP)

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 PHI = 100.000

REF = .0300 IN XMRP = 4.0336 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0073

RUN NO. 202/ 0 RM/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCF/L	CPB1	CAF
1.198	70.790	12.48110	12.00120	1.04500	-1.07310	-1.15420	.49740	.00000	.52080	.00000	-.49740
1.198	72.600	12.64020	12.36000	1.03010	-1.08140	-1.15000	.51500	.00000	.52770	.00000	-.51500
1.198	74.620	12.83260	12.13650	1.05550	-1.11330	-1.17070	.50150	.00000	.53180	.00000	-.50150
1.198	76.620	12.92540	12.00070	1.07980	-1.16050	-1.19080	.45480	.00000	.53390	.00000	-.45480
1.198	78.610	13.02910	11.91690	1.72370	-1.17510	-1.20790	.41470	.00000	.53370	.00000	-.41470
1.198	80.620	13.11960	11.75900	1.74330	-1.21490	-1.22350	.38460	.00000	.53810	.00000	-.38460
1.198	82.610	13.24200	11.59150	1.76380	-1.26740	-1.23470	.35290	.00000	.54070	.00000	-.35290
1.198	84.590	13.32920	11.21440	1.78240	-1.28630	-1.23600	.37300	.00000	.54070	.00000	-.37300
1.198	86.530	13.45000	10.96990	1.79690	-1.29210	-1.24040	.36280	.00000	.54850	.00000	-.36280
1.198	88.500	13.53980	10.77640	1.80780	-1.26380	-1.24750	.32450	.00000	.55070	.00000	-.32450
1.198	90.440	13.55090	10.52510	1.78700	-1.26030	-1.25110	.28620	.00000	.55320	.00000	-.28620
1.198	80.620	13.00060	11.71460	1.72550	-1.16920	-1.21400	.36450	.00000	.53810	.00000	-.36450
GRADIENT		.05479	-.10816	.00944	-.01167	-.00549	-.01172	.00000	.00152	.00000	-.01172

RUN NO. 252/ 0 RM/L = 7.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	KCF/L	CPB1	CAF
1.950	70.740	12.27350	10.99960	1.41920	-.83930	-1.03080	.72500	.00000	.53910	.00000	-.72500
1.950	72.620	12.42030	10.85350	1.43800	-.91160	-1.06000	.69330	.00000	.54030	.00000	-.69330
1.950	74.630	12.70590	10.91890	1.49620	-.93600	-1.08120	.69820	.00000	.54270	.00000	-.69820
1.950	76.630	12.95510	10.91360	1.54150	-.99720	-1.11340	.61480	.00000	.54490	.00000	-.61480
1.950	78.630	13.11080	10.97390	1.59740	-1.03760	-1.13170	.56340	.00000	.54660	.00000	-.56340
1.950	80.630	13.32640	10.93360	1.61800	-1.07220	-1.15720	.52160	.00000	.54860	.00000	-.52160
1.950	82.640	13.48180	10.78150	1.64590	-1.08190	-1.18050	.48620	.00000	.55030	.00000	-.48620
1.950	84.640	13.57180	10.68200	1.65900	-1.06370	-1.18150	.43160	.00000	.55190	.00000	-.43160
1.950	86.610	13.69140	10.60000	1.69460	-1.09790	-1.19150	.37710	.00000	.55330	.00000	-.37710
1.950	88.620	13.87930	10.47290	1.70330	-1.10040	-1.19740	.29870	.00000	.55460	.00000	-.29870
1.950	90.500	13.72950	10.44910	1.72310	-1.10820	-1.20170	.22480	.00000	.55520	.00000	-.22480
1.950	80.620	13.28780	10.74740	1.61110	-1.06650	-1.15330	.52340	.00000	.54900	.00000	-.52340
GRADIENT		.07700	-.02411	.01545	-.01263	-.00893	-.02452	.00000	.00089	.00000	-.02452



PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

SREF = .036 IN XMP = 4.030 IN.
 LREF = .000 IN. YMP = .0000 IN.
 BREF = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

RUN NO. 293/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CY	CYM	CBL	CA	CAB	XCP/L	CPB	CAF
3.480	70.540	11.73400	10.56450	1.48990	-1.02870	-1.04090	.79350	.00000	.53750	.00000	.79338
3.480	72.420	11.98710	10.50460	1.51010	-1.05180	-1.05470	.74340	.00000	.54040	.00000	.74340
3.480	74.430	12.24060	10.50300	1.52260	-1.05740	-1.07160	.69790	.00000	.54290	.00000	.69790
3.480	76.430	12.49950	10.44200	1.50960	-1.06780	-1.09110	.64460	.00000	.54550	.00000	.64460
3.480	78.430	12.67590	10.40160	1.60840	-1.09030	-1.10270	.58680	.00000	.54760	.00000	.58680
3.480	80.440	12.85080	10.33960	1.63700	-1.10990	-1.11610	.52990	.00000	.54960	.00000	.52990
3.480	82.410	12.90360	10.21740	1.65220	-1.12040	-1.13490	.47430	.00000	.55170	.00000	.47430
3.480	84.430	13.03840	10.12210	1.66670	-1.13670	-1.14520	.41950	.00000	.55320	.00000	.41950
3.480	86.410	13.09730	10.04940	1.69720	-1.14210	-1.15190	.35090	.00000	.55430	.00000	.35090
3.480	88.420	13.13280	9.84700	1.69300	-1.14270	-1.15040	.27650	.00000	.55660	.00000	.27650
3.480	90.290	13.17660	9.68950	1.67570	-1.12080	-1.15000	.21670	.00000	.55840	.00000	.21670
3.480	92.420	12.80090	10.27420	1.63070	-1.10230	-1.11250	.53720	.00000	.54990	.00000	.53720
GRADIENT		.07246	-.04209	.01064	-.00571	-.00627	-.02906	.00000	.00102	.00000	-.02906

RUN NO. 294/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CW	CLW	CY	CYM	CBL	CA	CAB	XCP/L	CPB	CAF
4.959	70.330	11.95980	10.48090	1.51820	-1.20410	-1.07410	.87750	.00000	.54060	.00000	.87750
4.959	72.210	12.24640	10.57190	1.53510	-1.20970	-1.07640	.83140	.00000	.54220	.00000	.83140
4.959	74.230	12.52700	10.56700	1.50030	-1.23780	-1.09260	.77710	.00000	.54470	.00000	.77710
4.959	76.250	12.72310	10.62100	1.61090	-1.21520	-1.11090	.71680	.00000	.54300	.00000	.71680
4.959	78.250	12.94790	10.63490	1.64210	-1.20800	-1.12210	.65090	.00000	.54750	.00000	.65090
4.959	80.250	13.06050	10.56900	1.64300	-1.25090	-1.16710	.58750	.00000	.54310	.00000	.58750
4.959	82.230	13.17370	10.61920	1.65800	-1.24140	-1.14940	.52400	.00000	.54950	.00000	.52400
4.959	84.250	13.25360	10.55730	1.67200	-1.30620	-1.17560	.44920	.00000	.55070	.00000	.44920
4.959	86.230	13.36860	10.61060	1.66000	-1.26920	-1.16210	.37760	.00000	.55100	.00000	.37760
4.959	88.250	13.39940	10.50910	1.67630	-1.26780	-1.17400	.30340	.00000	.55220	.00000	.30340
4.959	90.120	13.22800	10.25670	1.66370	-1.29440	-1.18990	.20710	.00000	.55330	.00000	.20710
4.959	92.230	13.05280	10.57600	1.64260	-1.26640	-1.14390	.59490	.00000	.54880	.00000	.59490
GRADIENT		.08720	-.00630	.00765	-.00492	-.00606	-.03342	.00000	.00061	.00000	-.03342

MWPC 507 (PA4) TITAN III C SON (MBETP)

(807000) (23 APR 74)

REFERENCE DATA

REF = .0300 IN XTRP = 4.0330 IN.
LREF = .0000 IN. YTRP = .0000 IN.
BREF = .0000 IN. ZTRP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 211/ 0 RM/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	109.800	7.50230	.54700	2.01430	-2.13140	-1.49460	-.82370	.00000	.64240	.00000	-.22970
.997	107.710	7.63970	.89910	1.91420	-2.12340	-1.48220	-.13430	.00000	.63720	.00000	-.13430
.997	103.720	7.71040	1.21010	1.75080	-2.08250	-1.46490	-.03030	.00000	.63160	.00000	-.03030
.997	103.750	7.74420	1.69950	1.66880	-2.03270	-1.45740	.05000	.00000	.62360	.00000	.05000
.997	101.740	7.80830	2.28920	1.59300	-2.04980	-1.47980	.11750	.00000	.61470	.00000	.11750
.997	99.750	7.93390	2.73580	1.53960	-2.06560	-1.47220	.20260	.00000	.60780	.00000	.20260
.997	97.760	8.01630	3.17330	1.47210	-2.01660	-1.49560	.29800	.00000	.60140	.00000	.29800
.997	93.770	8.07700	3.60190	1.44400	-1.95450	-1.50270	.38850	.00000	.59500	.00000	.38850
.997	93.780	8.13570	3.98190	1.35080	-1.96780	-1.48830	.47920	.00000	.58950	.00000	.47920
.997	91.770	8.16300	4.3770	1.30100	-1.94620	-1.47330	.48310	.00000	.58270	.00000	.48310
.997	89.920	8.22090	4.86570	1.33450	-2.04900	-1.48360	.35290	.00000	.57660	.00000	.35290
.997	99.750	7.98260	2.73500	1.52390	-2.01940	-1.47650	.20180	.00000	.60610	.00000	.20180
GRADIENT		-.03339	-.22441	.03494	-.00778	.00058	-.03459	.00000	.00341	.00000	-.03459

RUN NO. 212/ 0 RM/L = 6.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYM	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.904	109.470	9.56690	2.59770	2.34460	-1.90230	-1.43530	-.32110	.00000	.61710	.00000	-.32110
.904	107.560	9.68100	2.99960	2.37920	-1.87540	-1.46170	-.20990	.00000	.61230	.00000	-.20990
.904	105.570	9.85720	3.47820	2.42400	-1.86940	-1.47620	-.07640	.00000	.60680	.00000	-.07640
.904	103.590	9.97060	3.98970	2.42240	-1.77070	-1.47970	.03900	.00000	.60080	.00000	.03900
.904	101.600	10.28630	4.56360	2.46150	-1.77380	-1.50520	.16980	.00000	.59530	.00000	.16980
.904	99.610	10.46930	5.04140	2.48660	-1.73140	-1.52350	.26230	.00000	.59050	.00000	.26230
.904	97.630	10.58800	5.53150	2.50790	-1.73010	-1.52200	.30710	.00000	.58520	.00000	.30710
.904	95.650	10.70080	6.06540	2.53500	-1.71320	-1.53870	.25750	.00000	.57970	.00000	.25750
.904	93.670	10.84520	6.55480	2.55290	-1.69290	-1.55190	.21680	.00000	.57500	.00000	.21680
.904	91.660	10.94320	7.06790	2.56550	-1.68420	-1.53770	.22420	.00000	.56970	.00000	.22420
.904	89.600	10.99530	7.46800	2.54550	-1.69930	-1.54380	.23820	.00000	.56550	.00000	.23820
.904	99.610	10.92120	5.12780	2.50620	-1.69420	-1.50370	.25330	.00000	.56380	.00000	.25330
GRADIENT		-.07772	-.25273	-.01113	-.01136	.00956	-.02802	.00000	.00000	.00000	-.02802



TABULATED SOURCE DATA, NSFC TWT 907

(897000) (23 APR 74)

NSFC 907 (PA4) TITAN III C SRN (MDETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REF = .0300 IN XMRP = 4.0330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 213/ 0 RM/L = 0.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.197	109.360	11.92100	3.30410	2.29220	-1.17990	-1.25050	-56600	.00000	.59520	.00000	-.56600
1.197	107.400	12.18440	5.89360	2.32000	-1.18700	-1.26760	-46510	.00000	.59070	.00000	-.46510
1.197	105.500	12.43430	6.43090	2.32190	-1.21550	-1.28290	-36350	.00000	.58600	.00000	-.36350
1.197	103.510	12.68080	6.97840	2.31270	-1.21260	-1.29220	-24740	.00000	.58190	.00000	-.24740
1.197	101.530	12.92420	7.47420	2.31230	-1.22400	-1.30470	-15420	.00000	.57630	.00000	-.15420
1.197	99.530	13.15050	8.01090	2.31760	-1.23350	-1.31030	-91920	.00000	.57430	.00000	-.09192
1.197	97.570	13.29960	8.61970	2.31790	-1.17340	-1.31850	.07720	.00000	.56940	.00000	.07720
1.197	95.590	13.44950	9.14450	2.31190	-1.13360	-1.32500	.16750	.00000	.56540	.00000	.16750
1.197	93.610	13.59470	9.53980	2.29770	-1.10050	-1.32540	.25950	.00000	.56260	.00000	.25950
1.197	91.600	13.64730	9.87360	2.29160	-1.06620	-1.32450	.34640	.00000	.55990	.00000	.34640
1.197	89.740	13.67470	10.13440	2.27820	-1.04230	-1.32450	.39800	.00000	.55770	.00000	.39800
1.197	87.950	13.11480	7.98650	2.31890	-1.21360	-1.30190	-.02210	.00000	.57440	.00000	-.02210
1.197	GRADIENT	-.09198	-.25351	.00095	-.00757	.00372	-.05141	.00000	.00195	.00000	-.05141

RUN NO. 255/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.951	109.410	11.99990	6.86270	1.97390	-0.69820	-1.10070	-60920	.00000	.57910	.00000	-.60920
1.951	107.540	12.17360	7.18500	2.02370	-0.72290	-1.11530	-49770	.00000	.57680	.00000	-.49770
1.951	105.520	12.44120	7.61180	2.07330	-0.73570	-1.14070	-36330	.00000	.57400	.00000	-.36330
1.951	103.530	12.69740	7.97760	2.10850	-0.76360	-1.15840	-26370	.00000	.57200	.00000	-.26370
1.951	101.530	12.91540	8.29270	2.13750	-0.81900	-1.17820	-14870	.00000	.57020	.00000	-.14870
1.951	99.520	13.13230	8.62850	2.15370	-0.86230	-1.19640	-93960	.00000	.56830	.00000	-.09396
1.951	97.530	13.19210	8.93210	2.15960	-0.87840	-1.19700	.03000	.00000	.56630	.00000	.03000
1.951	95.590	13.30310	9.24410	2.16760	-0.91370	-1.20410	.13650	.00000	.56350	.00000	.13650
1.951	93.590	13.49710	9.52630	2.18320	-0.93860	-1.21140	.22700	.00000	.56190	.00000	.22700
1.951	91.570	13.51700	9.76950	2.18570	-0.95190	-1.22160	.30700	.00000	.56000	.00000	.30700
1.951	89.690	13.62770	9.98620	2.19150	-0.95250	-1.22720	.37790	.00000	.55870	.00000	.37790
1.951	87.990	12.99610	6.59570	2.13110	-0.89910	-1.18240	-.05750	.00000	.56780	.00000	-.05750
1.951	GRADIENT	-.09208	-.19977	-.01010	.01449	.00632	-.05022	.00000	.00104	.00000	-.05022

WSPC 987 (P46) TITAN III C 98M (MDETP)

(23 APR 74)

REFERENCE DATA

BREF = .6798 90. IN ZMRP = 4.6338 IN.
 LREF = .9088 IN. YMRP = .0000 IN.
 BREF = .5000 IN. ZMRP = .3000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 289/ 0 RM/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
3.400	109.550	11.44270	6.44130	1.70160	-.66910	-1.03660	-.93440	.00000	.90020	.00000	-.55440
3.400	107.620	11.69010	6.77590	1.75090	-.74000	-1.06750	-.44350	.00000	.57610	.00000	-.44350
3.470	109.660	11.94070	7.16190	1.80340	-.76690	-1.10000	-.33220	.00000	.57540	.00000	-.33220
3.490	103.670	12.16210	7.37220	1.85140	-.81000	-1.12430	-.24070	.00000	.57270	.00000	-.24070
3.480	101.670	12.39800	7.93750	1.89750	-.84600	-1.11610	-.13940	.00000	.57040	.00000	-.13940
3.480	99.660	12.59310	8.33550	1.92200	-.87210	-1.10260	-.05460	.00000	.56770	.00000	-.05460
3.480	97.690	12.76320	8.71250	1.94380	-.90230	-1.20750	.03680	.00000	.56510	.00000	.03680
3.480	95.670	12.86870	9.02920	1.97610	-.92430	-1.22160	.12420	.00000	.56280	.00000	.12420
3.480	93.700	13.00970	9.32340	1.98640	-.94660	-1.22660	.21250	.00000	.56000	.00000	.21250
3.480	91.680	13.10060	9.53640	2.00490	-.94500	-1.24460	.28900	.00000	.55930	.00000	.28900
3.480	89.810	13.16460	9.73520	2.00860	-.94940	-1.24860	.36040	.00000	.55790	.00000	.36040
3.480	89.680	12.55730	8.32940	1.92220	-.87930	-1.19670	-.04630	.00000	.56750	.00000	-.04630
GRADIENT		-.08632	-.17227	-.01564	.01348	.01116	-.04601	.00000	.00117	.00000	-.04601

RUN NO. 289/ 0 RM/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTW	CYMW	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	109.700	11.49030	6.44410	1.72270	-.73920	-1.07390	-.60910	.00000	.56050	.00000	-.60910
4.959	107.620	11.76820	6.78410	1.77660	-.75990	-1.14910	-.49680	.00000	.57860	.00000	-.49680
4.959	105.800	12.04930	7.08320	1.80420	-.79290	-1.17140	-.37170	.00000	.57720	.00000	-.37170
4.959	103.800	12.27720	7.49930	1.85930	-.87160	-1.18350	-.25660	.00000	.57420	.00000	-.25660
4.959	101.760	12.48470	7.82360	1.89960	-.86340	-1.23420	-.16820	.00000	.57220	.00000	-.16820
4.959	99.700	12.69030	8.21040	2.01000	-.88460	-1.23750	-.07010	.00000	.56960	.00000	-.07010
4.959	97.610	12.82640	8.49640	1.96430	-.93970	-1.23210	.02180	.00000	.56770	.00000	.02180
4.959	95.790	13.00140	8.77120	1.97560	-.95090	-1.28160	.11200	.00000	.56610	.00000	.11200
4.959	93.910	13.06910	9.00230	2.00200	-.96710	-1.26130	.19860	.00000	.56440	.00000	.19860
4.959	91.790	13.11680	9.13950	2.01620	-.1.03560	-1.27960	.28270	.00000	.56330	.00000	.28270
4.959	89.910	13.17480	9.23050	2.00010	-1.01450	-1.30210	.34500	.00000	.56280	.00000	.34500
4.959	89.800	12.76840	8.21840	1.92360	-.88630	-1.25180	-.07440	.00000	.57000	.00000	-.07440
GRADIENT		-.04492	-.14764	-.01475	.01469	.00991	-.04604	.00000	.00095	.00000	-.04604



TABULATED SOURCE DATA, NSFC TWT 907

DATE 11 JUL 74

NSFC 907 (FA4) TITAN III C SRN (HNETP)

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

REFP = .0300 30. IN XREF = 4.0330 IN.
LREF = .0000 10. IN YREF = .0000 10. IN.
BREF = .0000 10. IN ZREF = .0000 10. IN.
SCALE = .0074

RUN NO. 210/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 9.00

WACH	ALPHA	CMH	CLMH	CTH	CTHM	CBL	CA	CAB	XCP/L	CPH1	CAF
.997	129.990	3.02950	-1.06670	2.05660	-0.63470	-1.13690	-1.04290	.00000	.67460	.00000	-1.04290
.997	127.690	0.10150	-1.09870	2.14460	-0.89660	-1.82500	-0.99200	.00000	.67430	.00000	-0.99200
.997	125.690	0.20890	-1.05310	1.90570	-1.04860	-1.26970	-0.89440	.00000	.67270	.00000	-0.89440
.997	123.690	0.47180	-1.05610	1.87730	-1.08080	-1.32620	-0.79540	.00000	.67210	.00000	-0.79540
.997	121.670	0.64930	-0.95830	1.70070	-1.01010	-1.36700	-0.70230	.00000	.66970	.00000	-0.70230
.997	119.650	0.86470	-0.79090	2.12830	-2.01010	-1.40460	-0.59390	.00000	.66610	.00000	-0.59390
.997	117.670	7.03960	-0.59210	2.03430	-2.03090	-1.45930	-0.49630	.00000	.66210	.00000	-0.49630
.997	115.670	7.20060	-0.40160	1.99420	-2.05460	-1.48320	-0.39990	.00000	.65850	.00000	-0.39990
.997	113.670	7.31610	-0.16750	1.93960	-2.13530	-1.47920	-0.29950	.00000	.65440	.00000	-0.29950
.997	111.680	7.45740	-0.10160	1.94090	-2.16440	-1.49330	-0.20330	.00000	.64840	.00000	-0.20330
.997	109.700	7.54820	-0.77300	1.91170	-2.08760	-1.49290	-0.12640	.00000	.63360	.00000	-0.12640
.997	119.670	0.86400	-0.76920	2.11700	-1.99180	-1.41860	-0.61920	.00000	.66560	.00000	-0.61920
GRADIENT		-0.00654	-0.07832	0.00509	0.00402	0.01780	-0.04610	.00000	.00159	.00000	-0.04610

RUN NO. 203/ 0 RM/L = 6.23 GRADIENT INTERVAL = -2.00/ 9.00

WACH	ALPHA	CMH	CLMH	CTH	CTHM	CBL	CA	CAB	XCP/L	CPH1	CAF
.899	129.380	0.95190	-1.15400	2.05830	-1.11370	-1.09350	-1.23350	.00000	.67250	.00000	-1.23350
.899	127.470	7.32770	-1.12280	2.03950	-1.32400	-1.19240	-1.16730	.00000	.67090	.00000	-1.16730
.899	125.480	7.82920	-0.99920	2.02060	-1.54510	-1.17890	-1.06320	.00000	.66740	.00000	-1.06320
.899	123.450	7.93300	-0.69670	2.00180	-1.59720	-1.22940	-0.97850	.00000	.66260	.00000	-0.97850
.899	121.460	8.18370	-0.31610	2.00700	-1.60050	-1.26050	-0.89420	.00000	.65640	.00000	-0.89420
.899	119.450	8.40410	-0.04700	2.02910	-1.67340	-1.28560	-0.79370	.00000	.64980	.00000	-0.79370
.899	117.480	8.61340	0.37540	2.04030	-1.74500	-1.31620	-0.69060	.00000	.64300	.00000	-0.69060
.899	115.470	8.89960	1.04050	2.12480	-1.79700	-1.36260	-0.58610	.00000	.63670	.00000	-0.58610
.899	113.500	9.19200	1.81330	2.22970	-1.79700	-1.39080	-0.49330	.00000	.62930	.00000	-0.49330
.899	111.490	9.42590	2.14220	2.32190	-1.79910	-1.42910	-0.38620	.00000	.62270	.00000	-0.38620
.899	109.630	9.60190	2.99200	2.36770	-1.79220	-1.44160	-0.28540	.00000	.61730	.00000	-0.28540
.899	119.460	8.49870	1.80100	2.03290	-1.66930	-1.27000	-0.80450	.00000	.64880	.00000	-0.80450
GRADIENT		-0.13136	-0.20078	-0.01643	0.05019	0.01734	-0.04631	.00000	.00297	.00000	-0.04631

MOPC 987 (PAA) TITAN III C 80M (MDETP)

(R07007) (23 APR 74)

REFERENCE DATA

2027 = .0300 90. IN TRMP = 4.0338 IN.
 LOGP = .0000 IN. TRMP = .0000 IN.
 0027 = .0000 IN. ZMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 200/ 0 RM/L = 6.03 GRADIENT INTERVAL = -3.00/ 3.00

WACH	ALPHA	CMN	CLMN	CTN	CTMN	CBL	CA	CAB	TCP/L	CPB1	CAF
1.198	129.320	0.79900	1.49210	1.09370	-0.78870	-0.99310	-1.31990	.05900	.03040	.00000	-1.91990
1.198	127.410	9.19390	1.79030	1.73300	-0.81700	-0.99310	-1.43990	.00000	.02880	.00000	-1.43990
1.198	125.410	9.35630	2.09170	1.78160	-0.93370	-1.02280	-1.32280	.00000	.02380	.00000	-1.32280
1.198	123.400	9.87830	2.34320	1.84010	-1.05980	-1.06840	-1.25430	.00000	.02190	.00000	-1.25430
1.198	121.400	10.24800	2.60350	1.94370	-1.14450	-1.11030	-1.11650	.00000	.01890	.00000	-1.11650
1.198	119.390	10.32940	3.11610	2.00700	-1.20290	-1.12850	-1.05030	.00000	.01400	.00000	-1.05030
1.198	117.410	10.04420	3.51320	2.07300	-1.23970	-1.16370	-0.95360	.00000	.01040	.00000	-0.95360
1.198	115.420	11.13300	3.93690	2.13950	-1.25970	-1.18870	-0.84950	.00000	.00850	.00000	-0.84950
1.198	113.430	11.40730	4.39930	2.19570	-1.22570	-1.20270	-0.73650	.00000	.00280	.00000	-0.73650
1.198	111.410	11.74360	4.88400	2.23990	-1.21960	-1.23980	-0.63620	.00000	.00910	.00000	-0.63620
1.198	109.340	11.96140	5.32190	2.26330	-1.21950	-1.24460	-0.53210	.00000	.00920	.00000	-0.53210
1.198	119.410	10.34320	3.14910	2.00890	-1.21290	-1.13060	-1.08010	.00000	.01370	.00000	-1.08010
GRADIENT		-0.15028	-0.19433	-0.03098	.02461	.01465	-0.25034	.00000	.00177	.00000	-0.25034

RUN NO. 294/ 0 RM/L = 7.00 GRADIENT INTERVAL = -3.00/ 3.00

WACH	ALPHA	CMN	CLMN	CTN	CTMN	CBL	CA	CAB	TCP/L	CPB1	CAF
1.947	129.390	0.42520	2.96800	1.35930	-0.34010	-0.78440	-1.39960	.05000	.05690	.00000	-1.39960
1.947	127.480	0.08920	3.30730	1.42900	-0.38160	-0.81020	-1.48990	.00000	.00340	.00000	-1.48990
1.947	125.470	9.34100	3.71770	1.51810	-0.43770	-0.83330	-1.40790	.00000	.00110	.00000	-1.40790
1.947	123.480	9.70130	4.20080	1.57340	-0.48360	-0.80210	-1.31990	.00000	.00870	.00000	-1.31990
1.947	121.480	10.22780	4.93040	1.64320	-0.57710	-0.91720	-1.22960	.00000	.00440	.00000	-1.22960
1.947	119.430	10.06990	4.93890	1.70960	-0.62940	-0.96130	-1.12980	.00000	.00260	.00000	-1.12980
1.947	117.480	10.98250	3.37600	1.76900	-0.64690	-0.98820	-1.01850	.00000	.00940	.00000	-1.01850
1.947	115.440	11.27610	3.78810	1.81810	-0.67140	-1.01330	-0.91120	.00000	.00850	.00000	-0.91120
1.947	113.470	11.08320	0.27190	1.89110	-0.59220	-1.02210	-0.80690	.00000	.00390	.00000	-0.80690
1.947	111.490	11.91600	0.90390	1.94230	-0.71760	-1.07140	-0.68520	.00000	.00190	.00000	-0.68520
1.947	109.370	12.15750	0.84470	1.99290	-0.74730	-1.09800	-0.58790	.00000	.00280	.00000	-0.58790
1.947	119.480	10.90280	5.03230	1.60950	-0.58290	-0.94790	-1.12340	.00000	.00290	.00000	-1.12340
GRADIENT		-0.19034	-0.20038	-0.03168	.02116	.01598	-0.03023	.00000	.00197	.00000	-0.03023



TABULATED SOURCE DATA, NSFC TWT 387

NSFC 387 (FA4) TITAN III C SRM (MBETP)

(897087) (23 APR 74)

PARAMETRIC DATA

REF = .6360 IN ZMRP = 4.4330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 RREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074
 BETA = .000 PMI = 100.000

RUN NO. 291/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYHM	CBL	CA	CAB	XCP/L	CFB1	CAF
3.400	129.580	7.87920	3.24300	1.09100	-.32970	-.71870	-1.61240	.00000	.59940	.00000	-1.61240
3.400	127.670	8.26920	3.30010	1.14480	-.36070	-.73970	-1.50240	.00000	.59790	.00000	-1.50240
3.400	125.640	8.67390	3.75000	1.21550	-.40170	-.79000	-1.36360	.00000	.59670	.00000	-1.36360
3.400	123.640	9.06390	4.04920	1.28320	-.43860	-.84560	-1.27140	.00000	.59490	.00000	-1.27140
3.400	121.630	9.49070	4.40820	1.34770	-.48140	-.87000	-1.16070	.00000	.59270	.00000	-1.16070
3.400	119.610	9.88000	4.74690	1.40460	-.53810	-.94130	-1.06620	.00000	.59070	.00000	-1.06620
3.400	117.630	10.23840	5.06970	1.46070	-.59000	-.96330	-.95270	.00000	.58800	.00000	-.95270
3.400	115.610	10.56750	5.40580	1.52350	-.63840	-.99250	-.83270	.00000	.58670	.00000	-.83270
3.400	113.630	10.89260	5.81000	1.59030	-.68370	-1.02430	-.72430	.00000	.58400	.00000	-.72430
3.400	111.610	11.20540	6.13620	1.65840	-.73570	-1.06290	-.61240	.00000	.58210	.00000	-.61240
3.400	109.730	11.46040	6.49060	1.70850	-.79090	-1.09290	-.50810	.00000	.57980	.00000	-.50810
3.400	119.630	9.63790	4.71090	1.40470	-.55130	-.94320	-1.06360	.00000	.59090	.00000	-1.06360
GRADIENT		-.18257	-.16556	-.05142	.01953	.01880	-.05533	.00000	.00100	.00000	-.05533

RUN NO. 290/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYH	CYHM	CBL	CA	CAB	XCP/L	CFB1	CAF
4.939	129.700	7.75290	3.32170	1.05970	-.37590	-.72220	-1.69550	.00000	.59400	.00000	-1.69550
4.939	127.790	8.13000	3.74920	1.14440	-.36490	-.79330	-1.59220	.00000	.59310	.00000	-1.59220
4.939	125.790	8.60950	3.89490	1.21730	-.37640	-.82530	-1.49890	.00000	.59450	.00000	-1.49890
4.939	123.790	9.02870	4.19200	1.28890	-.41800	-.88130	-1.38210	.00000	.59330	.00000	-1.38210
4.939	121.780	9.40570	4.47080	1.35920	-.45960	-.89640	-1.24940	.00000	.59300	.00000	-1.24940
4.939	119.760	9.81090	4.77270	1.41540	-.49470	-.92290	-1.10800	.00000	.58990	.00000	-1.10800
4.939	117.780	10.21710	5.07360	1.48800	-.59710	-.97880	-.96160	.00000	.58860	.00000	-.96160
4.939	115.760	10.56620	5.43900	1.52950	-.65440	-1.00870	-.86790	.00000	.58670	.00000	-.86790
4.939	113.780	10.91170	5.80420	1.59780	-.66510	-1.03480	-.73730	.00000	.58420	.00000	-.73730
4.939	111.760	11.20120	6.10790	1.63910	-.70870	-1.07390	-.61250	.00000	.58290	.00000	-.61250
4.939	109.690	11.49280	6.44430	1.70880	-.74770	-1.09740	-.49760	.00000	.58050	.00000	-.49760
4.939	119.700	9.70250	4.70780	1.41640	-.54030	-.94680	-1.12440	.00000	.58950	.00000	-1.12440
GRADIENT		-.18996	-.15027	-.03181	.02148	.01826	-.06161	.00000	.00072	.00000	-.06161

NUPC 307(FAA) TITAN III C 3RM (MDETP)

(087000) (23 APR 74)

REFERENCE DATA

01Z7 = .0300 30. IN ZMRP = 4.6330 IN.
 02Z7 = .0000 IN. TMRP = .0000 IN.
 03Z7 = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 67/ 0 RM/L = 0.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.201	146.470	3.30210	-41350	1.30960	1.47710	-58170	-2.02020	.34710	.66100	-.34710	-2.38730
1.201	146.480	6.07220	-13130	1.33310	1.04690	-60990	-1.97020	.36130	.65420	-.36130	-2.33160
1.201	144.340	6.09130	22960	1.31290	.44940	-65010	-1.93270	.39040	.64710	-.39040	-2.32320
1.201	142.240	7.23090	47600	1.26320	.17330	-69700	-1.90350	.41650	.64310	-.41650	-2.32410
1.201	140.140	7.76140	62710	1.25150	-.12020	-73590	-1.82260	.39160	.64120	-.39160	-2.31440
1.201	138.030	6.30640	86280	1.30200	-.41940	-78160	-1.74720	.37030	.63830	-.37030	-2.11760
1.201	135.930	6.7646C	95940	1.30620	-.61270	-82190	-1.66360	.36000	.63770	-.36000	-2.02920
1.201	133.830	9.08240	70690	1.52460	-.64310	-86640	-1.58730	.36560	.64160	-.36560	-1.95300
1.201	131.730	9.33050	56600	1.61340	-.63290	-90420	-1.52320	.38110	.64390	-.38110	-1.90430
1.201	129.710	9.59260	37590	1.67630	-.60730	-94750	-1.45350	.38900	.64390	-.38900	-1.84250
1.201	127.740	9.82830	70690	1.74780	-.62640	-97910	-1.39370	.39460	.64240	-.39460	-1.77030
1.201	138.030	6.31440	91300	1.30970	-.43960	-76200	-1.76100	.37720	.63760	-.37720	-2.13820
GRADIENT		-.21100	-.04910	-.02231	.09634	.01974	-.03230	.00007	.00066	-.00007	-.03236

RUN NO. 66/ 0 RM/L = 0.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	149.110	3.97660	-37690	.44940	-.16900	-.35580	-2.08210	.06580	.63310	-.06580	-2.14800
3.480	147.160	4.37980	82740	.48610	-.21360	-.38660	-2.07340	.06090	.62760	-.06090	-2.13440
3.480	145.100	4.81710	1.05350	.51670	-.18780	-.43480	-2.07400	.05190	.62370	-.05190	-2.12590
3.480	143.040	5.22000	1.31060	.56930	-.21890	-.45990	-2.03230	.04690	.61970	-.04690	-2.07930
3.480	140.980	5.63670	1.57460	.64620	-.25020	-.50730	-2.00020	.03700	.61620	-.03700	-2.03700
3.480	138.920	6.12210	1.78900	.71010	-.29400	-.54230	-1.93980	.03050	.61450	-.03050	-1.97040
3.480	136.850	6.54990	1.99750	.76030	-.26120	-.58430	-1.86320	.02360	.61290	-.02360	-1.88650
3.480	134.800	6.98590	2.23320	.86340	-.28180	-.61890	-1.78740	.01490	.61050	-.01490	-1.80240
3.480	132.750	7.41940	2.47690	.93360	-.28270	-.66880	-1.70060	.00970	.60920	-.00970	-1.71040
3.480	130.680	7.85180	2.75660	1.01610	-.28360	-.72330	-1.60060	.01140	.60700	-.01140	-1.61210
3.480	128.630	8.28090	2.99270	1.09960	-.31130	-.76030	-1.49700	.01120	.60570	-.01120	-1.50630
3.480	138.920	6.09780	1.76180	.71770	-.27630	-.55660	-1.93630	.02990	.61490	-.02990	-1.96630
GRADIENT		-.21061	-.11660	-.03249	.00626	.01980	-.02909	.00299	.00126	-.00239	-.02119



TABULATED SOURCE DATA, NSFC TMT 907

DATE 11 JUN 74

(R07000) (23 APR 74)

NSFC 907(P44) TITAN III C SRN (MNETP)

PARAMETRIC DATA

REFERENCE DATA

SREF = .0300 30. IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 70/ 0 RM/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA = .000 PHI = 100.000

WACH	ALPHA	CMW	CLMW	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.000	169.500	.46430	-1.09040	-.09310	-.85480	-.16190	-1.12270	-.07400	.95080	.07680	-1.04990
.000	167.300	.60310	-1.24270	-.09030	-.60750	-.16760	-1.16380	-.06940	.91140	.08940	-1.09440
.000	165.820	.79390	-1.36610	-.04910	-.52310	-.20900	-1.19940	-.04490	.86980	.04690	-1.19290
.000	163.620	.90000	-1.41800	.03300	-.40040	-.24200	-1.23210	-.01610	.83420	.01610	-1.23590
.000	161.590	1.21660	-1.48490	.10400	-.31700	-.29380	-1.30360	-.00340	.80590	.00540	-1.29010
.000	159.500	1.47410	-1.49740	.35530	-.14100	-.33720	-1.33910	.00250	.78000	-.00250	-1.34100
.000	157.330	1.78490	-1.48890	.31370	-.11090	-.36040	-1.36350	.00750	.75820	-.00750	-1.37000
.000	155.400	2.16070	-1.50460	.14120	-.03720	-.40520	-1.36910	.03740	.73960	-.03740	-1.40630
.000	153.460	2.56150	-1.52290	-.05490	.04070	-.40520	-1.35300	.06090	.72670	-.06090	-1.43400
.000	151.390	2.98270	-1.46350	.10970	1.54180	-.44690	-1.33400	.11190	.71360	-.11190	-1.44640
.000	149.430	3.41030	-1.32190	.42090	2.40470	-.49000	-1.30910	.14300	.70050	-.14300	-1.45200
.000	159.500	1.46530	-1.46860	.34200	-.13470	-.32420	-1.35150	-.00150	.77630	.00150	-1.34990
GRADIENT		-.14983	.01164	-.01699	-.13172	.01667	-.01054	-.01046	.01215	-.01046	.02110

RUN NO. 69/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMW	CLMW	CYM	CYMH	CBL	CA	CAB	KCP/L	CPB1	CAF
.001	169.500	.65200	-.64550	-.01430	-.49000	-.13940	-1.30390	-.02620	.82000	.02620	-1.27920
.001	167.500	.82150	-.96940	-.02710	-.56490	-.16610	-1.37560	-.00960	.80000	.00960	-1.36590
.001	165.480	1.05130	-1.19140	.03310	-.41410	-.19750	-1.43050	.01330	.79490	-.01330	-1.44300
.001	163.450	1.30540	-1.26400	-.02910	-.37810	-.21610	-1.47990	.04620	.77400	.04620	-1.52820
.001	161.400	1.60230	-1.30340	-.21230	-.47610	-.24410	-1.51200	.06870	.75440	-.06870	-1.59000
.001	159.330	1.90820	-1.26890	-.40400	-.43690	-.27340	-1.55090	.10000	.73230	-.10000	-1.65100
.001	157.280	2.34920	-1.33030	-.29690	-.28630	-.31700	-1.58370	.14120	.72310	-.14120	-1.72690
.001	155.180	2.75420	-1.36730	.03310	1.20020	-.32240	-1.60490	.21370	.71430	-.21370	-1.81070
.001	153.110	3.23060	-1.35350	.47220	2.15670	-.36200	-1.61110	.26000	.70440	-.26000	-1.89190
.001	151.010	3.70830	-1.35490	.85690	2.62230	-.45660	-1.60270	.29230	.69770	-.29230	-1.98300
.001	148.990	4.20220	-1.42670	.66250	2.71270	-.50200	-1.55900	.30750	.69440	-.30750	-1.86730
.001	159.320	2.00330	-1.26780	-.31050	-.41150	-.26500	-1.55460	.10190	.73150	-.10190	-1.65660
GRADIENT		-.17494	.02275	-.04113	-.17931	.01712	-.01341	-.01603	.00647	-.01603	.03145

PARAMETRIC DATA

BETA = .000 PHI = 100.000

REFERENCE DATA

DEEP = .0300 90. IN XMRP = 4.0300 IN.
LDEP = .0000 IN. YMRP = .0000 IN.
BDEP = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 00/ 0 RM/L = 0.92 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.210	189.400	.01150	-1.16220	.09850	-3.3570	-.15300	-1.76800	.15450	.03270	-.15450	-1.94200
1.210	187.430	1.02030	-1.36100	.12280	-.32180	-.19690	-1.84250	.16230	.02030	-.16230	-2.00400
1.210	189.350	1.31790	-1.50900	.25720	-.38070	-.24100	-1.80310	.18580	.79650	-.18580	-2.06890
1.210	183.200	1.07900	-1.60310	.48650	-.13300	-.28670	-1.91630	.20980	.77250	-.20980	-2.12610
1.210	181.170	2.04700	-1.69800	.30000	-.17500	-.32470	-1.93660	.22510	.75650	-.22510	-2.16170
1.210	159.070	2.48740	-1.75950	.24530	-.23340	-.35760	-1.96280	.25060	.74100	-.25060	-2.21340
1.210	156.950	2.99190	-1.79050	.17200	-.11000	-.39740	-1.99240	.26530	.72600	-.26530	-2.27700
1.210	154.830	3.53620	-1.85620	.78240	1.24500	-.44240	-2.01520	.30520	.71000	-.30520	-2.32050
1.210	152.740	4.16210	-1.27900	.78240	1.24500	-.48460	-2.04170	.33090	.69040	-.33090	-2.37260
1.210	150.600	4.84650	-.73320	1.16330	1.60170	-.52610	-2.03500	.34800	.67070	-.34800	-2.38310
1.210	148.360	5.52250	-.20890	1.30030	1.49660	-.56110	-2.02080	.37280	.65610	-.37280	-2.39370
1.210	159.060	2.49780	-1.76430	.24520	-.22340	-.35070	-1.97260	.26230	.74090	-.26230	-2.23450
GRADIENT		-.22604	-.03222	-.05112	-.10284	.01941	.01154	-.01094	.00843	-.01094	-.02249

RUN NO. 110/ 0 RM/L = 0.97 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CWN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.954	189.350	.79800	-1.01320	.10670	-.19250	-.11410	-1.80840	.06610	.01200	-.06610	-1.87450
1.954	187.300	1.08150	-1.04420	.09730	-.20790	-.14020	-1.84250	.08930	.77370	-.08930	-1.92350
1.954	185.320	1.43190	-.97110	.04900	-.31740	-.17700	-1.87450	.10170	.73730	-.10170	-1.97650
1.954	183.190	1.82290	-.93490	.21170	-.06840	-.20920	-1.92210	.11130	.71640	-.11130	-2.03340
1.954	181.110	2.24510	-.83340	.34170	.06250	-.24300	-1.96070	.11790	.69850	-.11790	-2.07070
1.954	159.990	2.69510	-.62270	.51920	.25570	-.28500	-1.98900	.12460	.68070	-.12460	-2.11450
1.954	156.910	3.12220	-.39250	.53920	.22650	-.30780	-1.99470	.14930	.66750	-.14930	-2.14410
1.954	154.800	3.58650	-.21960	.60510	.27630	-.34330	-2.02090	.15890	.65920	-.15890	-2.17980
1.954	152.660	4.08620	-.00400	.68830	.27100	-.37870	-2.03990	.17160	.65160	-.17160	-2.21160
1.954	150.590	4.57200	.30900	.69440	.02690	-.39900	-2.05160	.20230	.64290	-.20230	-2.23160
1.954	148.570	5.00720	.51960	.66590	-.22660	-.43260	-2.04990	.19950	.63830	-.19950	-2.24950
1.954	159.030	2.64480	-.48560	.45080	-.15040	-.26940	-1.94370	.12650	.67470	-.12650	-2.37350
GRADIENT		-.20807	-.07766	-.03520	-.01391	.01338	.01203	-.00644	.00779	-.00644	-.01147



TABULATED SOURCE DATA, MSFC TWT 507

1897000) (23 APR 74)

MSFC 507(PAA) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .060 PHI = 100.000

REFERENCE DATA

REF : .0300 IN TMRP = 4.0336 IN.
LREF : .0000 IN. TMRP = .0000 IN.
BREF : .0000 IN. TMRP = .0000 IN.
SCALE : .0074

RUN NO. 65/ 0 RW/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAF
3.400	169.530	.67810	-.41680	.09870	-.24190	-.07200	-1.61940	.05750	.72900	-.05790	-1.07700
3.400	167.600	.90710	-.35480	.09990	-.23140	-.11020	-1.64400	.05750	.70100	-.05790	-1.90190
3.400	165.530	1.10510	-.28350	.04330	-.32930	-.12230	-1.67190	.05950	.68180	-.05950	-1.93140
3.400	163.510	1.46030	-.22270	.03200	-.36810	-.16020	-1.90680	.06240	.67070	-.06240	-1.98900
3.400	161.480	1.77680	-.16250	.10210	-.25050	-.20020	-1.94540	.06130	.66450	-.06130	-2.00890
3.400	159.410	2.10260	-.12010	.17740	-.14700	-.22740	-1.98320	.05950	.65870	-.05950	-2.04470
3.400	157.380	2.42640	-.08320	.25310	-.07460	-.25470	-2.02200	.04210	.65160	-.04210	-2.08420
3.400	155.300	2.75590	-.02990	.33050	-.01370	-.28000	-2.04850	.03250	.65010	-.03250	-2.08110
3.400	153.280	3.13170	.12600	.39860	-.12090	-.31320	-2.05900	.01890	.64640	-.01893	-2.07490
3.400	151.190	3.52860	.28950	.40560	-.14890	-.35550	-2.05990	.00640	.64110	-.00640	-2.06840
3.400	149.210	3.94160	.53170	.45660	-.17280	-.37740	-2.05780	-.00280	.63440	-.00280	-2.05900
3.400	159.410	2.07820	-.11920	.17730	-.14070	-.24290	-1.98670	.05600	.65870	-.05600	-2.04350
GRADIENT		-.15974	-.04113	-.02108	-.00970	.01509	-.01321	.00316	.00390	-.00316	.01005

RUN NO. 64/ 0 RW/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTM	CYMW	CSL	CA	CAB	XCP/L	CPB1	CAF
4.959	169.630	.52930	-.35290	.15970	-.26760	-.04010	-1.60400	.02000	.73590	-.02000	-1.02400
4.959	167.710	.75840	-.28620	.15980	-.22310	-.09360	-1.62990	.02050	.70590	-.02050	-1.04940
4.959	165.690	.95760	-.20980	.12200	-.23340	-.12540	-1.66900	.02170	.69930	-.02170	-1.09080
4.959	163.670	1.24090	-.23370	.09480	-.26850	-.14650	-1.90990	.02120	.67530	-.02120	-1.92210
4.959	161.650	1.52850	-.14450	.12230	-.20980	-.16110	-1.96130	.00440	.66340	-.00440	-1.96370
4.959	159.630	1.81730	-.02320	.16370	-.14370	-.19310	-1.99710	-.00740	.65310	-.00740	-1.98960
4.959	157.610	2.11050	.06890	.23500	-.09360	-.23290	-2.01460	-.01670	.64740	-.01670	-1.99820
4.959	155.590	2.40880	.17240	.30850	-.13410	-.25360	-2.01090	-.02480	.64250	-.02480	-1.99600
4.959	153.590	2.80960	.31610	.32410	-.16150	-.30340	-2.03200	-.03640	.63760	-.03640	-1.99480
4.959	151.540	3.23470	.49440	.35310	-.19480	-.31800	-2.04930	-.04620	.63210	-.04620	-2.00300
4.959	149.620	3.61110	.72030	.41060	-.22890	-.34980	-2.04490	-.06360	.62820	-.06360	-1.99080
4.959	159.630	1.81920	-.02200	.17800	-.13680	-.26260	-2.00650	-.00920	.65330	-.00920	-1.99730
GRADIENT		-.15399	-.05188	-.01933	-.00417	.01478	-.01286	.00440	.00468	-.00440	.00845

NSFC 507 (FA4) TITAN III C BRN (MNETP)

(007000) (23 APR 74)

REFERENCE DATA

BREF = .0300 90. IN ZMRP = 4.6330 IN.
 LREF = .0000 90. IN. ZMRP = .0000 IN.
 BREF = .0000 90. IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 100.000

RUN NO. 71/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYNW	CBL	CA	CAB	KCP/L	CPB1	CAF
.998	190.130	-.05380	1.14960	-.49480	-.21790	.04730	-.99520	-.03750	.07400	.05750	-.93750
.998	188.230	-.50000	1.01200	-.36000	-.16000	.03210	-.94030	-.07990	.90760	.07990	-.06040
.998	186.210	-.40510	.90610	-.22420	-.19130	.03020	-.91440	-.08990	.93490	.08990	-.02890
.998	184.190	-.25330	.69900	-.11840	-.12840	.03240	-.89810	-.09630	1.00050	.09630	-.60170
.998	182.180	-.12530	.43730	-.05200	-.14030	-.00800	-.91040	-.10120	1.09300	.10120	-.60920
.998	180.140	-.00020	.19120	-.01360	-.10700	-.00330	-.90350	-.10580	2.59300	.10580	-.79970
.998	178.120	.08300	-.16010	.00110	-.21390	-.04050	-.89790	-.10540	.89370	.10540	-.79240
.998	176.100	.18450	-.31180	-.01210	-.36730	-.03510	-.92870	-.10360	.86330	.10360	-.82300
.998	174.100	.28410	-.59560	-.05690	-.42940	-.08860	-.95870	-.10050	.91690	.10050	-.83620
.998	172.080	.36550	-.84750	-.08330	-.45900	-.09690	-.100510	-.09210	.94500	.09210	-.91290
.998	170.120	.46790	-.104790	-.07680	-.33480	-.13000	-.106870	-.08090	.92330	.08090	-.98790
.998	168.140	.00110	.17220	-.00830	-.14030	-.03130	-.90330	-.10180	.00000	.10180	-.80350
GRADIENT		-.05365	.11543	-.01769	.01868	.00924	.00364	.00103	.00037	-.00103	.00260

RUN NO. 72/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYNW	CBL	CA	CAB	KCP/L	CPB1	CAF
.901	190.220	-.77400	.86980	-.53760	-.33720	.07240	-1.14330	-.02890	.76080	.02890	-1.14440
.901	188.200	-.59670	.55980	-.41320	-.18040	.07890	-1.09120	-.03930	.77020	.03930	-1.03180
.901	186.240	-.42770	.44430	-.28260	-.06920	.06220	-1.06080	-.05650	.78290	.05650	-1.00430
.901	184.210	-.27340	.33260	-.14630	-.07900	.04730	-1.05200	-.06730	.80430	.06730	-.98470
.901	182.170	-.13610	.22070	-.06980	-.12270	.03960	-1.01960	-.08030	.85660	.08030	-.93920
.901	180.130	.04440	.05570	-.04060	-.18670	.01480	-1.04260	-.09700	.49280	.09700	-.94560
.901	178.100	.13190	-.14480	.00050	-.25040	-.00340	-1.05930	-.09950	.79930	.09950	-.95080
.901	176.070	.25600	-.23640	.03930	-.23430	-.03650	-1.05980	-.08100	.76840	.08100	-.97370
.901	174.060	.39620	-.42910	-.02280	-.26120	-.03710	-1.10910	-.06870	.80390	.06870	-1.04040
.901	172.000	.50360	-.62480	-.03460	-.38620	-.09270	-1.17280	-.05180	.80790	.05180	-1.11130
.901	170.040	.68740	-.80030	-.02710	-.47390	-.12820	-1.26300	-.03750	.79880	.03750	-1.22750
.901	168.130	.03230	.06230	-.04080	-.19260	.03240	-1.04010	-.03370	.40720	.03370	-.94430
GRADIENT		-.06907	.07271	-.02344	.01164	.01022	.00363	.00097	-.00118	-.00097	.00468



DATE 11 JUN 74

UNCALIBRATED SOURCE DATA, NSFC TWT 587

PAGE 133

NSFC 587(F44) TITAN III C SRN (MNETP)

(097090) (23 APR 74)

REFERENCE DATA

PARAMETRIC DATA

REF = .6360 80. IN XMRP = 6.0330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 100.000

RUN NO. 73/ 0 RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.200	190.310	-.32230	.75670	-.43260	-.37160	.06360	-1.71330	.16090	.75530	-.16090	-1.07420
1.200	189.340	-.64490	.64740	-.25990	-.22300	.04610	-1.69080	.14440	.77110	-.14440	-1.02900
1.200	188.230	-.50870	.52440	-.11430	-.12500	.03990	-1.64440	.13600	.78190	-.13600	-1.78030
1.200	184.240	-.33350	.32220	-.08860	-.10200	.02340	-1.61000	.13060	.77390	-.13060	-1.74080
1.200	182.190	-.18700	.11350	-.07370	-.28420	.00940	-1.58890	.11910	.72830	-.11910	-1.70810
1.200	180.140	-.03940	-.10180	-.04030	-.26920	-.00920	-1.57680	.09490	.32440	-.09490	-1.67140
1.200	179.090	.10940	-.31400	.01470	-.19500	-.01650	-1.50000	.10130	1.01460	-.10130	-1.60130
1.200	176.030	.26820	-.55410	.04900	-.22000	-.04960	-1.61570	.10910	.91490	-.10910	-1.72490
1.200	174.000	.43050	-.78320	.05460	-.26270	-.07010	-1.64840	.11550	.88170	-.11550	-1.76390
1.200	171.910	.62300	-1.00650	.06030	-.30470	-.09860	-1.69910	.12260	.85290	-.12260	-1.82160
1.200	169.930	.84730	-1.15080	.09370	-.32760	-.14660	-1.76140	.12790	.82340	-.12790	-1.88930
1.200	168.140	-.03980	-.10270	-.04400	-.30520	-.01090	-1.96720	.08160	.32550	-.08160	-1.64980
GRADIENT		-.08173	.09093	-.02168	.00237	.00946	.00147	.00166	-.00690	-.00166	-.00019

RUN NO. 119/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLWN	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.937	190.160	-.02210	.65140	-.30800	-.22450	.04630	-1.77770	.06840	.75100	-.06840	-1.6410
1.937	189.200	-.55530	.67360	-.14740	-.01040	.03320	-1.73910	.04350	.80310	-.04350	-1.70270
1.937	186.170	-.39110	.57130	-.06470	.04330	.03040	-1.71970	.03360	.83640	-.03360	-1.75330
1.937	184.090	-.24280	.41420	-.03840	.02610	.02350	-1.70510	.02970	.86730	-.02970	-1.73080
1.937	182.090	-.11990	.24470	-.00900	.01250	.01730	-1.69960	.01840	.90980	-.01840	-1.71800
1.937	179.990	.01990	-.00780	-.02330	-.02380	.00380	-1.69030	.01160	.70140	-.01160	-1.70220
1.937	177.930	.13330	-.31090	.04040	-.02620	-.01730	-1.70950	.00670	.94630	-.00670	-1.71630
1.937	175.880	.24630	-.57250	.04230	-.02840	-.02840	-1.70620	.01370	.94560	-.01370	-1.72000
1.937	173.830	.39400	-.78300	.06360	-.04400	-.03260	-1.72370	.02080	.90300	-.02080	-1.74460
1.937	171.780	.59210	-.92670	.09280	-.06950	-.04940	-1.76450	.03340	.84960	-.03340	-1.79790
1.937	169.790	.81670	-1.04330	.11430	-.12390	-.12290	-1.81010	.03370	.81310	-.03370	-1.86390
1.937	179.980	-.03780	-.00890	-.02720	-.05330	.01000	-1.65780	.01000	.60010	-.01000	-1.66860
GRADIENT		-.07267	.09339	-.01622	.00251	.00765	.00128	.00063	-.00389	-.00063	-.00043

TABLATED SOURCE DATA, NSFC TWT 387

DATE 11 JUL 74

(007000) (23 APR 74)

NSFC 387(FA4) TITAN III C SRN (MBETP)

PARAMETRIC DATA

BETA = .000 PMI = 100.000

REFERENCE DATA

ORZF = .0300 90. IN XMRP = 4.8330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
ORZF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 02/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	COL	CA	CAB	XCP/L	CPB1	CAF
3.400	190.150	-.66510	.10690	-.11560	-.27190	.03080	-1.77030	.05420	.67200	-.05420	-1.83250
3.400	188.220	-.45120	.20340	-.06570	-.21900	.02940	-1.76560	.05000	.70850	-.05000	-1.81650
3.400	186.200	-.32040	.23360	-.02310	-.12100	.01960	-1.75230	.04410	.74380	-.04410	-1.79650
3.400	184.180	-.17490	.17170	.03600	-.09730	.01290	-1.74250	.03530	.77600	-.03530	-1.77790
3.400	182.150	-.08320	.08040	.05060	-.09140	-.00960	-1.73760	.03090	.77370	-.03090	-1.76670
3.400	180.130	.03210	-.04080	.03340	-.10510	-.01150	-1.73020	.02660	.61250	-.02660	-1.75690
3.400	178.110	.12320	-.13320	.06890	-.13260	-.01630	-1.73460	.02440	.78830	-.02440	-1.73900
3.400	176.080	.21310	-.26830	.06570	-.15740	-.03340	-1.74260	.02930	.61000	-.02930	-1.72220
3.400	174.060	.31710	-.39330	.00700	-.16480	-.03340	-1.75620	.03670	.79260	-.03670	-1.79290
3.400	172.030	.48530	-.40620	.09630	-.20060	-.07970	-1.77330	.04430	.73740	-.04430	-1.81990
3.400	170.000	.65240	-.40390	.10480	-.23260	-.09170	-1.79640	.05160	.72980	-.05160	-1.84825
3.400	168.130	.82120	-.01810	.07220	-.09330	-.02410	-1.72740	.02490	.73960	-.02490	-1.73240
GRADIENT		-.05953	.03543	-.00964	.00012	.00669	.00062	.00035	-.00322	-.00035	.00027

RUN NO. 03/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	COL	CA	CAB	XCP/L	CPB1	CAF
4.959	190.070	-.45650	.16170	-.02420	-.17250	.00170	-1.72910	.01950	.69630	-.01950	-1.74470
4.959	188.170	-.34040	.28340	-.00460	-.21660	.01330	-1.71680	.01470	.73680	-.01470	-1.73150
4.959	186.160	-.24800	.24060	.07660	-.16590	-.00990	-1.70810	.01440	.77420	-.01440	-1.72260
4.959	184.150	-.16100	.22440	.09110	-.14370	-.02000	-1.69170	.01370	.82780	-.01370	-1.70550
4.959	182.160	-.07310	.14510	.09230	-.12090	-.02920	-1.69110	.01290	.89390	-.01290	-1.70400
4.959	180.130	.09310	.01510	.06120	-.15190	-.02620	-1.69390	.01240	.63130	-.01240	-1.70840
4.959	178.120	.12660	-.03060	.11140	-.16730	-.03350	-1.69360	.01120	.68210	-.01120	-1.70460
4.959	176.120	.21390	-.10920	.12740	-.16010	-.04260	-1.72660	.01170	.71610	-.01170	-1.73030
4.959	174.130	.30130	-.18870	.14410	-.18320	-.04670	-1.70640	.01340	.73080	-.01340	-1.71930
4.959	172.090	.44430	-.27120	.13260	-.20850	-.09530	-1.74120	.01490	.72880	-.01490	-1.75610
4.959	170.170	.59820	-.24400	.13350	-.23920	-.08420	-1.74270	.01720	.70680	-.01720	-1.75990
4.959	168.130	.84200	.01910	.12450	-.15910	-.02660	-1.69420	.01320	.59390	-.01320	-1.77740
GRADIENT		-.04914	.02903	-.00724	.00189	.00469	.00106	-.00005	.00287	-.00005	.00111



TABLATED SOURCE DATA, NSFC TUT 307

DATE 11 JUL 74

(097096) (23 APR 74)

NSFC 307(FAA) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .000 PRI = 133.000

REFERENCE DATA

REF = .6300 IN XMRP = 4.0330 IN.
LREF = .9000 IN. YMRP = .0000 IN.
SREF = .9000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 333/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	ICP/L	CPB1	CAF
.996	109.510	9.06220	-7.4230	-1.37290	-.42710	-.93600	-.11440	.00000	.66100	.00000	-.11440
.996	107.700	9.13910	-3.2680	-1.37030	-.43520	-.94480	-.03200	.00000	.69600	.00000	-.03200
.996	105.690	9.27970	.25470	-1.37190	-.44470	-.96010	.03390	.00000	.64800	.00000	.03390
.996	103.670	9.37480	.76370	-1.36170	-.39330	-.90830	.10430	.00000	.64120	.00000	.10430
.996	101.640	9.42330	1.30180	-1.33360	-.44290	-.86690	.19600	.00000	.63400	.00000	.19600
.996	99.630	9.46340	1.74400	-1.33350	-.36500	-.87360	.28050	.00000	.62620	.00000	.28050
.996	97.640	9.50230	2.20600	-1.30420	-.32140	-.86250	.37800	.00000	.62210	.00000	.37800
.996	95.610	9.56430	2.67610	-1.39820	-.26000	-.85330	.47700	.00000	.61610	.00000	.47700
.996	93.600	9.62080	3.03300	-1.41020	-.19190	-.86090	.55520	.00000	.61160	.00000	.55520
.996	91.610	9.55370	3.38510	-1.30880	-.14040	-.84900	.59460	.00000	.60660	.00000	.59460
.996	89.710	9.60070	4.23210	-1.33490	-.09990	-.81890	.59890	.00000	.59570	.00000	.59890
.996	99.650	9.47610	1.70180	-1.34320	-.36000	-.87320	.27700	.00000	.62870	.00000	.27700
GRADIENT	-.02821	-.24014	-.00055	-.01908	-.00165	-.03495	.00000	.00000	.00316	.00000	-.03495

RUN NO. 362/ 0 RN/L = 0.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHN	CLMN	CYN	CYMN	CBL	CA	CAB	ICP/L	CPB1	CAF
.897	109.210	11.07240	.69170	-.47370	.20540	-1.09830	-.19960	.00000	.64360	.00000	-.19960
.897	107.310	11.13850	1.26510	-.46220	.24620	-1.09260	-.09920	.00000	.63720	.00000	-.09920
.897	105.330	11.32020	1.84770	-.46110	.29090	-1.09430	-.00250	.00000	.63080	.00000	-.00250
.897	103.380	11.38000	2.43900	-.47040	.30190	-1.09670	.09840	.00000	.62440	.00000	.09840
.897	101.420	11.44950	2.94730	-.48840	.29520	-1.07210	.20800	.00000	.61890	.00000	.20800
.897	99.440	11.51700	3.44450	-.48950	.21890	-1.06600	.31520	.00000	.61360	.00000	.31520
.897	97.460	11.63950	3.98710	-.48860	.20430	-1.07100	.42110	.00000	.60830	.00000	.42110
.897	95.490	11.74670	4.47690	-.48860	.23630	-1.07420	.48750	.00000	.60320	.00000	.48750
.897	93.550	11.81670	5.23600	-.52700	.26680	-1.04270	.45620	.00000	.59840	.00000	.45620
.897	91.610	11.91050	6.19800	-.53040	.30390	-1.02360	.35040	.00000	.58310	.00000	.35040
.897	89.780	11.90850	6.97020	-.47740	.34410	-1.00000	.30930	.00000	.57740	.00000	.30930
.897	99.460	11.34310	3.44000	-.50360	.25760	-1.07030	.31500	.00000	.61360	.00000	.31500
GRADIENT	-.04199	-.30854	.00240	-.00351	-.00412	-.03127	.00000	.00000	.00325	.00000	-.03127

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 507(P/A4) TITAN III C 30R (MDETP)

(007007) (23 APR 74)

REFERENCE DATA

SREF = .0300 90. IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 133.000

RUN NO. 364/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPH1	CAF
.595	129.350	7.40500	-4.42090	-1.76750	.07300	-.72390	-.82530	.00000	.72720	.00000	-.82530
.595	127.460	7.80150	-4.40940	-1.52960	.57510	-.77410	-.72180	.00000	.72490	.00000	-.72180
.595	125.410	7.95410	-4.32160	-1.36310	.26370	-.83040	-.63163	.00000	.72110	.00000	-.63160
.595	123.390	8.02820	-4.03190	-1.13490	-.20070	-.87690	-.35280	.00000	.71500	.00000	-.35280
.595	121.420	8.23110	-3.65110	-1.23160	-.27210	-.89350	-.47120	.00000	.70760	.00000	-.47120
.595	119.410	8.38410	-3.13000	-1.33700	-.71180	-.92800	-.40260	.00000	.69880	.00000	-.40260
.595	117.400	8.59530	-2.42010	-1.36800	-.36960	-.91400	-.31470	.00000	.68710	.00000	-.31470
.595	115.410	8.82250	-1.98060	-1.34410	-.43360	-.93600	-.24640	.00000	.68000	.00000	-.24640
.595	113.430	9.07680	-1.58570	-1.35130	-.44710	-.93730	-.15840	.00000	.67590	.00000	-.15840
.595	111.440	9.07480	-1.14140	-1.36680	-.30760	-.96090	-.08770	.00000	.66740	.00000	-.08770
.595	109.910	9.22250	-.77340	-1.37360	-.44630	-.95150	.00350	.00000	.66210	.00000	.00350
.595	119.430	8.37840	-3.13030	-1.32710	-.30150	-.89970	-.39360	.00000	.69880	.00000	-.39360
GRADIENT		-.09286	-.20517	-.00963	.05984	-.01063	-.04037	.00000	.00560	.00000	-.04037

RUN NO. 365/ 0 RM/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CTH	CTMH	CBL	CA	CAB	KCP/L	CPH1	CAF
.899	120.000	8.65020	-4.13210	-.55960	-.09370	-.88063	-.98110	.00000	.71190	.00000	-.98110
.899	127.120	9.00070	-3.80850	-.54510	-.17090	-.92130	-.90370	.00000	.70820	.00000	-.90370
.899	125.070	9.38150	-3.37400	-.52440	-.14940	-.95500	-.83300	.00000	.69970	.00000	-.83300
.899	123.080	9.68600	-3.19470	-.52250	-.15610	-.98050	-.75070	.00000	.69330	.00000	-.75070
.899	121.100	9.96950	-2.73430	-.50860	-.21400	-.1.00520	-.66350	.00000	.68620	.00000	-.66350
.899	119.120	10.27030	-2.24240	-.50790	-.20650	-.1.05050	-.58400	.00000	.67910	.00000	-.58400
.899	117.120	10.46160	-1.54220	-.49700	-.16230	-.1.05160	-.51270	.00000	.67010	.00000	-.51270
.899	115.150	10.73220	-.89840	-.50650	-.07070	-.1.05890	-.43210	.00000	.66210	.00000	-.43210
.899	113.190	11.00340	-.26560	-.50040	-.02710	-.1.06020	-.34480	.00000	.65450	.00000	-.34480
.899	111.190	11.17170	.30940	-.49370	.06270	-.1.06160	-.24600	.00000	.64800	.00000	-.24600
.899	109.290	11.31300	.83330	-.51070	.15980	-.1.07250	-.15600	.00000	.64220	.00000	-.15600
.899	119.130	10.30640	-2.17940	-.49300	-.22710	-.1.03040	-.99300	.00000	.67820	.00000	-.99300
GRADIENT		-.13543	-.26305	-.00260	-.01276	-.01000	-.04137	.00000	.00365	.00000	-.04137



TABULATED SOURCE DATA, NSFC TWT 507

(R07097) (23 APR 74)

NSFC 507(P44) TITAN III C SRM (MDETP)

PARAMETRIC DATA

BETA = .060 PWI = 135.688

REFERENCE DATA

SREF = .0360 IN XMRP = 4.0330 IN.
 LREF = .9600 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 366/ 0 RM/L = 0.70 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CMR	CLMR	CYN	CTMN	CBL	CA	CAB	KCP/L	CPBI	CAF
1.200	126.970	10.40160	-.03370	-.15240	.12390	-.97730	-1.27970	.00000	.66160	.00000	-1.27970
1.200	127.080	10.80440	-.54670	-.13620	.06340	-1.00000	-1.19360	.00000	.63790	.00000	-1.19360
1.200	125.040	11.22600	-.13630	-.13970	-.01320	-1.04000	-1.11140	.00000	.65300	.00000	-1.11140
1.200	123.020	11.64980	.40030	-.14360	-.04490	-1.07740	-1.03710	.00000	.64710	.00000	-1.03710
1.200	121.030	12.06330	.90470	-.14930	-.09960	-1.09700	-.94350	.00000	.64200	.00000	-.96330
1.200	119.030	12.45360	1.41200	-.12580	-.11430	-1.12440	-.88230	.00000	.63710	.00000	-.88230
1.200	117.010	12.76980	1.65760	-.10930	-.10160	-1.14300	-.77480	.00000	.63500	.00000	-.77480
1.200	115.020	13.10290	2.06540	-.09330	-.09230	-1.17500	-.68420	.00000	.63150	.00000	-.68420
1.200	113.030	13.34120	2.55950	-.06230	-.09310	-1.16240	-.59230	.00000	.62720	.00000	-.59230
1.200	111.040	13.58460	2.99020	-.03490	-.09200	-1.19760	-.50400	.00000	.62370	.00000	-.50400
1.200	109.130	13.78670	3.31840	-.03850	-.06240	-1.21610	-.41740	.00000	.61920	.00000	-.41740
1.200	119.080	12.41650	1.42700	-.13030	-.12650	-1.11440	-.67150	.00000	.63690	.00000	-.67150
GRADIENT			-.21801	-.00569	.00567	.01214	-.04331	.00000	.00212	.00000	-.04331

NSFC 987(744) TITAN III C SEA (MDETP)

(897898) (23 APR 74)

REFERENCE DATA

SREF = .0308 96. IN ZMRP = 4.6338 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 139.000

RUN NO. 344/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.898	146.300	5.38430	-3.49560	-1.63400	.21190	-.51880	-1.42160	.13750	.73360	-.13750	-1.95930
.898	146.370	5.98860	-3.76430	-1.64500	.50320	-.58940	-1.39080	.17560	.73110	-.17560	-1.96690
.896	144.240	6.39390	-4.06190	-1.44990	1.07500	-.62730	-1.34500	.21440	.72940	-.21440	-1.93950
.896	142.140	6.98300	-4.27930	-1.10800	1.65730	-.66190	-1.27420	.25890	.72900	-.25890	-1.93310
.896	139.890	7.61940	-4.56800	-.67560	2.02220	-.73280	-1.24300	.26120	.72740	-.26120	-1.90900
.896	137.910	8.29690	-4.83730	-.49910	2.37340	-.77600	-1.19330	.26310	.72430	-.26310	-1.89830
.896	135.630	8.92920	-4.76490	-.20030	2.22110	-.82400	-1.09130	.23530	.72300	-.23530	-1.82660
.896	133.780	9.63310	-4.91920	-.04460	1.96630	-.88190	-1.00260	.22810	.72200	-.22810	-1.82070
.898	131.670	9.31900	-3.13460	.01370	1.32200	-.85870	-.89970	.18470	.72120	-.18470	-1.80450
.896	129.630	9.69820	-4.94580	.06800	1.39470	-.99560	-.81920	.20550	.71630	-.20550	-1.82470
.896	127.640	10.04310	-4.65730	-.01430	.98980	-1.01810	-.73660	.19920	.71020	-.19920	-.93590
.896	137.900	8.13900	-4.78700	-.36340	2.29900	-.78920	-1.18800	.25650	.72560	-.25650	-1.44430
GRADIENT		-.22102	.06667	-.09834	-.04076	.02498	-.03374	-.00112	.00095	.00112	-.03282

RUN NO. 344/ 0 RM/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWN	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.194	147.850	6.94640	-2.49600	-.63190	.11590	-.69310	-1.87030	.35340	.69698	-.35340	-2.22370
1.194	145.860	7.55160	-2.45630	-.49500	.82970	-.75430	-1.85930	.37270	.69260	-.37270	-2.23210
1.194	143.710	8.16000	-2.45900	-.17240	1.24810	-.81740	-1.81180	.35670	.68988	-.35670	-2.17080
1.194	141.540	8.68270	-2.39850	-.03170	1.31910	-.87310	-1.74340	.33570	.68640	-.33570	-2.07910
1.194	139.430	9.24710	-2.18600	.06490	1.35990	-.90920	-1.66290	.31220	.68140	-.31220	-1.97510
1.194	137.290	9.84080	-2.02250	.29970	1.07610	-.98470	-1.57820	.29790	.67750	-.29790	-1.87620
1.194	135.150	10.43150	-1.90350	.28940	.78500	-1.05740	-1.49800	.29320	.67460	-.29320	-1.79320
1.194	133.020	10.98270	-1.76620	.24390	.49400	-1.08800	-1.39650	.27820	.67200	-.27820	-1.67490
1.194	130.900	11.34360	-1.84030	.21970	.43560	-1.13010	-1.29800	.25800	.67200	-.25800	-1.55660
1.194	128.830	11.60540	-1.74220	.18240	.38120	-1.13130	-1.19890	.24810	.67040	-.24810	-1.44710
1.194	126.900	11.94690	-1.53160	.20200	.30236	-1.13580	-1.08110	.19360	.66770	-.19360	-1.26480
1.194	137.310	9.79620	-1.99390	.23760	1.38160	-.97820	-1.37300	.26410	.67720	-.26410	-1.65710
GRADIENT		-.24485	-.04764	-.04209	.02366	.02332	-.03860	.00769	.00139	-.00769	-.04829



DATE 11 JUL 74

PAGE 101

TABULATED SOURCE DATA, NSFC TWT 507

(897090) (23 APR 74)

NSFC 507(FA4) TITAN III C BRN (MBETP)

PARAMETRIC DATA

REFERENCE DATA

REF = .6300 90. IN ZMRP = 4.6330 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 REF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 135.000

RUN NO. 340/ 0 RN/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLM	CYN	CVHM	CBL	CA	CAS	XCP/L	CPB1	CAF
1.955	140.090	5.95750	-.04190	.16000	.43150	-.61620	-1.66700	.10200	.65240	-.10200	-2.05040
1.955	140.050	6.49790	.10140	.19420	.30900	-.66900	-1.65110	.20100	.64790	-.20100	-2.05220
1.955	143.910	7.05340	.35410	.15310	.24930	-.70050	-1.62300	.21100	.64320	-.21100	-2.03490
1.955	141.700	7.60650	.51050	.14260	.14910	-.74130	-1.76100	.21650	.64300	-.21650	-1.99700
1.955	139.370	8.30470	.67350	.14460	.01660	-.79600	-1.77410	.25060	.64200	-.25060	-1.99470
1.955	137.420	9.98130	.70000	.12400	.01790	-.84670	-1.72820	.22740	.64160	-.22740	-1.95370
1.955	135.320	9.46830	.83610	.11000	.01660	-.87900	-1.66090	.22210	.63990	-.22210	-1.86310
1.955	133.320	9.68430	1.16200	.09510	.03650	-.88590	-1.59220	.20990	.63600	-.20990	-1.78210
1.955	131.190	10.24450	1.37490	.09060	.04250	-.93090	-1.47010	.20050	.63450	-.20050	-1.67070
1.955	129.070	10.74400	1.51920	.08350	.00190	-.97040	-1.36900	.19240	.63360	-.19240	-1.57650
1.955	127.040	11.26430	1.70210	.08780	.00030	-.99250	-1.31050	.18010	.63240	-.18010	-1.49370
1.955	137.600	8.60990	.82710	.10440	.02330	-.80800	-1.69410	.21620	.63950	-.21620	-1.51040
GRADIENT		-.25095	-.06096	.00484	.01824	.01792	-.02695	.00039	.00069	-.00039	-.38734

RUN NO. 320/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLM	CYN	CVHM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	140.790	4.63560	.45400	.00190	.10910	-.51000	-1.96610	.06910	.63960	-.06910	-2.03530
3.400	140.610	5.31820	.52290	-.01460	.04690	-.55740	-1.97550	.06630	.63900	-.06630	-2.04170
3.400	144.730	5.77960	.51100	-.03160	.07960	-.61370	-1.96460	.06160	.64030	-.06160	-2.02830
3.400	142.680	6.35010	.55790	-.05450	.04020	-.66850	-1.92890	.05640	.63960	-.05640	-1.99540
3.400	140.560	6.65070	.70290	-.06630	.03550	-.72000	-1.80720	.05070	.63650	-.05070	-1.93600
3.400	138.400	7.57370	.89970	-.07230	.01420	-.75160	-1.81950	.04850	.63620	-.04850	-1.86910
3.400	136.400	7.86320	1.04260	-.06490	.01320	-.77910	-1.73000	.04140	.63470	-.04140	-1.77150
3.400	134.320	8.39690	1.22460	-.05010	-.04530	-.82910	-1.63780	.03250	.63300	-.03250	-1.69030
3.400	132.250	8.89570	1.40700	-.05150	-.07010	-.86050	-1.58050	.02240	.63060	-.02240	-1.60300
3.400	130.180	9.36720	1.64170	-.06550	-.04740	-.91000	-1.49280	.01250	.62950	-.01250	-1.49540
3.400	128.210	9.81300	1.84310	-.07800	-.08930	-.94000	-1.36360	.00420	.62770	-.00420	-1.38790
3.400	136.500	7.36140	.89720	-.06600	.01110	-.74780	-1.81150	.04680	.63600	-.04680	-1.65040
GRADIENT		-.24402	-.06975	.00275	.00921	.02059	-.02957	.00314	.00063	-.00314	-.03271

(187000) (23 APR 74)

MSFC 307(744) TITAN III C SRM (MSCTP)

PARAMETRIC DATA

BETA = .000 PHI = 133.000

REFERENCE DATA

SREF = .0000 IN. XMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 3217 0 RM/L = 4.99 GRADIENT INTERVAL = -3.00/ 5.00

WACN	ALPHA	CMN	CLMN	CTM	CYMN	CBL	CA	CAB	KCP/L	CPB1	CAF
4.959	149.270	4.42710	.58400	-.03870	-.02000	-.30590	-2.07010	.01650	.63400	-.01950	-2.00860
4.959	147.330	4.61200	.61720	-.04870	-.03170	-.54370	-2.07980	.01390	.63360	-.01390	-2.09300
4.959	145.290	5.45420	.67930	-.07320	-.03820	-.63320	-2.07320	.00970	.63370	-.00970	-2.06490
4.959	143.250	5.99190	.71020	-.11700	-.00560	-.70280	-2.03190	.00490	.63690	-.00490	-2.05680
4.959	141.220	6.50410	.85070	-.13090	-.01690	-.72820	-2.00290	.00140	.63490	-.00140	-2.00430
4.959	139.190	7.05010	.94570	-.11420	-.04430	-.77370	-1.93540	-.00360	.63450	.00360	-1.93180
4.959	137.140	7.58990	1.09990	-.14220	-.06410	-.81290	-1.85320	-.00810	.63310	.00810	-1.84510
4.959	135.090	8.07430	1.33640	-.13050	-.06010	-.86740	-1.76000	-.01440	.62740	.01440	-1.76560
4.959	133.070	8.61960	1.41410	-.09590	-.15640	-.89590	-1.67550	-.02100	.63070	.02100	-1.65440
4.959	131.030	9.10640	1.57090	-.09390	-.20810	-.97390	-1.62700	-.02800	.62960	.02800	-1.59900
4.959	129.100	9.59210	1.73840	-.10840	-.25590	-.97900	-1.52820	-.03810	.62830	.03810	-1.49200
4.959	129.200	7.05160	.94820	-.10110	.00820	-.79540	-1.93790	-.00590	.63450	.00590	-1.93200
GRADIENT	-.23704	-.00185	-.00266	.01066	.02367	-.02874	.00297	.00041	-.07237	-.03132	



REFERENCE DATA PARAMETRIC DATA
 BREF = .6300 98. IN XMRP = 4.6330 IN. BETA = .000 PHI = 133.000
 LREF = .9000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

RUN NO. 343/ 0 RM/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.201	169.280	1.09770	-1.55480	-1.3510	-1.19860	-2.1790	-1.68780	.14590	.83070	-.14590	-1.63370
1.201	167.330	1.42930	-1.61410	-1.1030	-1.19130	-2.7110	-1.70420	.19780	.81210	-.19780	-1.66190
1.201	165.180	1.83780	-2.17500	-0.1220	-1.0940	-3.4520	-1.72800	.16440	.80130	-.16440	-1.69240
1.201	163.030	2.26820	-2.60360	.16710	-.09690	-4.1130	-1.74950	.17500	.79680	-.17500	-1.92190
1.201	160.900	2.70360	-2.82830	.26610	-.18190	-4.7820	-1.77660	.18330	.78090	-.18330	-1.96000
1.201	158.720	3.56450	-2.55480	-.79230	-1.19340	-4.7790	-1.80210	.21610	.74220	-.21610	-2.01020
1.201	156.320	4.49190	-2.12430	-1.73840	-2.31070	-4.4170	-1.83960	.24740	.71130	-.24740	-2.10700
1.201	154.340	5.23520	-2.09270	-1.84550	-2.13660	-3.9190	-1.87310	.30120	.70210	-.30120	-2.17440
1.201	152.190	5.90870	-2.19240	-1.66670	-1.57810	-3.6600	-1.88320	.39070	.69640	-.39070	-2.23400
1.201	150.020	6.40080	-2.34740	-1.21390	-1.15090	-3.4190	-1.87120	.37200	.69790	-.37200	-2.24330
1.201	148.040	6.92710	-2.40090	-.84180	-.82090	-3.1990	-1.85750	.36570	.69530	-.36570	-2.24330
1.201	156.730	3.99790	-2.45180	-1.03110	-1.53320	-4.6160	-1.80620	.17590	.73770	-.17590	-1.90210
GRADIENT		-.29189	.01951	.09065	.09234	.01961	.00981	-.01245	.00721	.01245	-.02226

RUN NO. 341/ 0 RM/L = 7.10 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWN	CLWN	CYN	CYWH	CBL	CA	CAB	XCP/L	CPBI	CAF
1.959	169.190	1.07930	-1.22810	-.08850	-1.15660	-1.18720	-1.77040	.06550	.79610	-.06550	-1.63800
1.959	167.310	1.41010	-1.29670	-.18790	-1.23410	-1.22670	-1.78490	.09240	.76430	-.09240	-1.67730
1.959	165.210	1.76310	-1.28350	-.10070	-1.17760	-1.27460	-1.80880	.09990	.74270	-.09990	-1.90980
1.959	163.090	2.19790	-1.20260	.07490	-.13290	-1.31560	-1.82040	.11620	.72070	-.11620	-1.93660
1.959	160.960	2.68970	-1.03400	.17470	-.31750	-1.36800	-1.84270	.13290	.70010	-.13290	-1.97570
1.959	158.840	3.21750	-.67850	.10860	-.19220	-1.39650	-1.85620	.14300	.68800	-.14300	-1.99930
1.959	156.690	3.83250	-.66680	-.05690	-.05910	-1.43390	-1.86990	.15740	.67350	-.15740	-2.04730
1.959	154.520	4.47710	-.51090	-.12990	-.10930	-1.48420	-1.92200	.18190	.66390	-.18190	-2.11390
1.959	152.330	5.07310	-.47310	-.03390	-.32320	-1.52210	-1.93310	.19020	.66330	-.19020	-2.12330
1.959	150.200	5.60980	-.48400	.10940	-.48700	-1.57850	-1.93020	.17970	.66060	-.17970	-2.10990
1.959	148.210	6.16030	-.27390	.20920	-.46090	-1.62630	-1.90470	.16580	.65710	-.16580	-2.09050
1.959	156.890	3.24490	-.68510	.10040	-.18290	-1.39810	-1.85760	.14430	.68600	-.14430	-2.00190
GRADIENT		-.24786	-.03308	-.00849	-.03071	.02034	.00804	-.00548	.00634	.00548	-.01332

WSPC 907 (FAA) TITAN III C SRN (MRETP)

(897099) (23 APR 74)

REFERENCE DATA

BREF = .0300 IN ZMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 139.000

RUN NO. 319/ 0 RM/L = 6.43 GRADIENT INTERVAL = -9.00/ 9.00

WACN	ALPHA	CMN	CLMN	CYN	CVMN	CBL	CA	CAB	KCP/L	CPBI	CAF
3.400	169.470	.78000	-.50600	-.01420	-.06900	-.10320	-1.73770	.05320	.73490	-.05920	-1.01300
3.400	167.540	1.00240	-.43900	.00960	.00390	-.10700	-1.74560	.05750	.70710	-.03750	-1.02320
3.400	165.500	1.29790	-.20360	.04640	.05480	-.19360	-1.78140	.05060	.67910	-.05060	-1.04010
3.400	163.450	1.63050	-.15260	.04610	.06440	-.19920	-1.80420	.05910	.66330	-.05910	-1.06340
3.400	161.390	2.01050	-.01470	.00810	.01960	-.22770	-1.80810	.05950	.65050	-.05950	-1.08770
3.400	159.320	2.41060	.10110	-.00390	.02250	-.26640	-1.82220	.05450	.64620	-.05450	-1.07670
3.400	157.250	2.84470	.16040	-.00460	.05990	-.31990	-1.84540	.03920	.64400	-.03920	-1.08360
3.400	155.170	3.33960	.23550	.0180	.16020	-.37900	-1.86200	.01940	.64260	-.01940	-1.08140
3.400	153.090	3.84290	.31630	.03350	.21700	-.42690	-1.90100	-.01040	.64100	.01040	-1.09050
3.400	151.010	4.31530	.38190	.04350	.17020	-.46030	-1.92990	-.02590	.64030	.02590	-1.09300
3.400	149.040	4.74360	.42100	-.01130	.12270	-.52170	-1.95330	-.03600	.64020	.03600	-1.91720
3.400	159.340	2.41030	.10160	-.00400	.03460	-.29910	-1.83110	.05250	.64620	-.05250	-1.08360
GRADIENT		-.19923	-.04709	-.00031	-.01070	.02146	.00950	.00486	.00396	-.00486	.00482

RUN NO. 316/ 0 RM/L = 5.05 GRADIENT INTERVAL = -1.00/ 9.00

WACN	ALPHA	CMN	CLMN	CYN	CVMN	CBL	CA	CAB	KCP/L	CPBI	CAF
4.959	169.500	.94670	-.79990	.01360	-.01050	-.09350	-1.72720	.01770	.74410	-.01770	-1.74500
4.959	167.070	.74640	-.32750	.01360	-.01210	-.10100	-1.74200	.01920	.70700	-.01920	-1.76030
4.959	165.050	1.03870	-.20440	.09400	.05270	-.15920	-1.73250	.02020	.67640	-.02020	-1.77280
4.959	163.640	1.26050	.00090	.01140	-.00350	-.16950	-1.78090	.02050	.65140	-.02050	-1.80150
4.959	161.610	1.65050	.23790	-.00450	.00010	-.19460	-1.80470	.01970	.63330	-.01970	-1.82450
4.959	159.590	2.03870	.35310	-.00510	.04110	-.23650	-1.80970	.01270	.62980	-.01270	-1.82140
4.959	157.550	2.51610	.46640	-.00400	.06640	-.31690	-1.84760	-.00060	.62800	.00060	-1.84700
4.959	155.520	2.94590	.50440	.00990	.11590	-.36290	-1.87420	-.01540	.62900	.01540	-1.85670
4.959	153.400	3.43300	.50730	.01340	.09490	-.44330	-1.91740	-.03690	.63280	.03690	-1.88030
4.959	151.450	3.86070	.57260	.00120	.06760	-.49030	-1.97860	-.05950	.63270	.05950	-1.91900
4.959	149.520	4.31590	.65100	-.02400	.01770	-.52650	-2.03190	-.07770	.63240	.07770	-1.93420
4.959	159.800	2.08900	.33950	.00880	.06270	-.26370	-1.82000	.00390	.62910	-.00390	-1.82500
GRADIENT		-.19248	-.03503	.00206	-.00402	.02290	.01439	.00474	.00465	-.00474	.00964



TABULATED SOURCE DATA, NSFC TWT 507

NSFC 507 (FAA); TITAN III C SHN (MBETP)

DATE 11 JUL 74

(097100) (23 APR 74)

PARAMETRIC DATA

BETA = .000 PHI = 139.000

REFERENCE DATA

0027 = .0300 IN XMRP = 4.8330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
0027 = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

RUN NO. 342/ 0 RN/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.932	190.130	-1.06780	.80030	-.47980	-.38860	.09880	-1.80540	.06890	.75390	-.06890	-1.97430
1.932	188.130	-.77080	.88070	-.28080	-.13120	.04720	-1.84890	.04330	.79610	-.04330	-1.95220
1.932	186.050	-.51190	.77720	-.09250	.01140	.07630	-1.80580	.02530	.84220	-.02530	-1.83140
1.932	183.970	-.31090	.57810	-.01220	.07070	.03760	-1.79840	.02130	.88680	-.02130	-1.77970
1.932	181.900	-.13780	.31290	-.00240	.04520	.03620	-1.72710	.01410	.93090	-.03140	-1.74120
1.932	179.810	.03610	.08840	.01070	.06740	.01010	-1.69710	.01220	.41160	-.01220	-1.70930
1.932	177.740	.21900	-.17940	.03930	.11190	-.02300	-1.67210	.00530	.75570	-.00530	-1.67730
1.932	175.650	.37860	-.53880	.03270	.09970	-.04470	-1.65890	.01180	.83160	-.01180	-1.66800
1.932	173.550	.60320	-.80850	-.01190	.05180	-.09180	-1.68640	.02660	.82110	-.02660	-1.72310
1.932	171.460	.83490	-1.14050	-.06320	-.09660	-.12900	-1.76340	.05140	.82440	-.05140	-1.81680
1.932	169.420	1.14540	-1.31260	-.09670	-.18290	-.17960	-1.80100	.08230	.79630	-.08230	-1.88390
1.932	179.820	-.04300	-.00500	-.00400	-.00500	.01260	-1.72280	.02890	.66030	-.02890	-1.73170
GRADIENT		-.09918	.11610	-.01337	-.00649	.01315	-.00629	.00010	.00013	-.00010	-.00639

RUN NO. 316/ 0 RN/L = .56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.970	187.930	-.24670	.29440	-.12760	-.14800	.03140	-1.06190	.04670	.71960	-.04670	-1.90870
1.970	185.890	-.36150	.29810	-.04330	-.05690	.01390	-1.03020	.03980	.75590	-.03980	-1.86900
1.970	183.870	-.21720	.27640	-.01310	-.01360	-.00890	-1.78190	.03140	.81260	-.03140	-1.81330
1.970	181.840	-.08650	.14990	.00200	.00420	-.07310	-1.76220	.02960	.87070	-.02960	-1.79180
1.970	179.810	.01760	-.00470	.02470	-.01880	-.06340	-1.73630	.03250	.68380	-.03250	-1.76890
1.970	177.780	.13130	-.14330	.00760	-.00900	-.07430	-1.71810	.03030	.78660	-.03030	-1.74840
1.970	175.760	.24670	-.26260	.00470	-.04730	-.09230	-1.71590	.03360	.78620	-.03360	-1.74890
1.970	173.730	.36170	-.39820	-.00920	-.05550	-.12390	-1.73900	.03060	.79000	-.03060	-1.75540
1.970	171.700	.52760	-.49360	-.01500	-.07780	-.15810	-1.73100	.04580	.76990	-.04580	-1.77890
1.970	169.760	.74560	-.47810	-.00750	-.08980	-.17350	-1.74240	.04930	.73260	-.04930	-1.79080
1.970	179.830	.04340	-.00630	.02400	-.01960	-.07810	-1.73860	.03270	.62670	-.03270	-1.77130
GRADIENT		-.06339	.05174	-.00393	.00001	.01106	-.00669	-.00034	-.00027	.00034	-.00633

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

NSFC 987 (P44) TITAN III C SRN (NSCTP)

(197100) (23 APR 74)

REFERENCE DATA

ORZF = .0308 90. IN ZMRP = 4.6338 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 ORZF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .1074

PARAMETRIC DATA

BETA = .000 PHI = 133.000

RUN NO. 317/ 0 RM/L = 3.00 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CMW	CLMW	CYN	CTWM	COL	CA	CAB	XCP/L	CPB1	CAF
4.939	189.770	-.01230	.17260	-.15900	-.16090	-.10230	-1.02030	-.00630	.68710	-.00630	-1.01370
4.939	187.830	-.01090	.24820	-.13330	-.13900	.09930	-1.73770	.00730	.72810	-.00730	-1.76920
4.939	185.840	-.06190	.23720	-.04390	-.01010	.08630	-1.74590	.00990	.76610	-.00990	-1.75480
4.939	183.830	-.17320	.23110	-.01330	-.03680	.07340	-1.71970	.00760	.83490	-.00760	-1.72740
4.939	181.820	-.08020	.15840	.00130	.01030	.04260	-1.70340	.01070	52.42870	-.01070	-1.71410
4.939	179.810	.03640	-.00510	-.00810	-.07290	.04310	-1.67830	.01070	.63860	-.01070	-1.68900
4.939	177.800	.14230	-.08110	-.00810	-.01290	.02140	-1.67850	.01070	.72360	-.01070	-1.66920
4.939	175.790	.22900	-.18240	-.00470	-.07460	.00270	-1.65930	.01090	.74130	-.01090	-1.68930
4.939	173.760	.37370	-.21190	.01130	-.06370	-.02170	-1.68710	.01120	.72320	-.01120	-1.67830
4.939	171.770	.42990	-.30700	-.00140	-.07630	-.02950	-1.66500	.01170	.74190	-.01170	-1.67670
4.939	169.800	.59910	-.34410	-.02870	-.07810	-.03320	-1.67670	.01600	.72420	-.01600	-1.69270
4.939	179.830	.04480	.01110	-.00790	-.04900	.05270	-1.67840	-.01220	.63490	-.01220	-1.69070
4.939	GRADIENT	-.05372	.03281	-.00370	-.00174	.00804	-.08669	-.00065	.23592	.00065	-.00604



MSFC 907 (PA4) TITAN III C SRN (MSBTP)

(R07106) (23 APR 74)

REFERENCE DATA

SIZE = .6300 IN XMRP = 4.6350 IN.
 LACT = .9000 IN. YMRP = .0000 IN.
 BRZ = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 366/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MAC#	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	109.530	8.34350	.01340	-.98980	1.29780	-.39170	-.12980	.00F30	.65130	.00000	-.12980
.998	107.490	8.39790	-.42380	-.90740	1.21690	-.38420	-.08420	.0C-000	.64310	.00000	-.08420
.998	105.490	8.48400	.77810	-.88630	1.20680	-.38300	-.01020	.00000	.63990	.00000	-.01020
.998	103.480	8.54420	1.00640	-.89900	1.18000	-.39680	.04670	.00000	.63660	.00000	.04670
.998	101.490	8.60090	1.36410	-.92100	1.10660	-.37780	.09540	.00000	.63100	.00000	.09540
.998	99.510	8.65330	1.89190	-.97920	.91830	-.36680	.14700	.00000	.62360	.00000	.14700
.998	97.540	8.75500	2.33590	-1.03070	.81280	-.39440	.21490	.00000	.61770	.00000	.21490
.998	95.560	8.91910	2.78920	-1.07290	.68960	-.37940	.29810	.00000	.61150	.00000	.29810
.998	93.540	8.66780	3.28970	-1.12100	.60300	-.36600	.37760	.00000	.60450	.00000	.37760
.998	91.560	8.94240	3.69920	-1.14740	.52660	-.38020	.47500	.00000	.59910	.00000	.47500
.998	89.770	8.99270	4.09450	-1.22080	.39910	-.36690	.51580	.00000	.59380	.00000	.51580
.998	99.660	8.61870	1.91840	-.96750	.95660	-.38860	.14430	.00000	.62330	.00000	.14430
.998	GRADIENT	-.03353	-.20804	.01734	.04773	-.00038	-.03312	.00000	.00293	.00000	-.03312

RUN NO. 361/ 0 RM/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MAC#	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.999	109.340	10.46870	1.97000	-1.29170	1.11100	-.92450	-.17690	.00000	.62770	.00000	-.17690
.999	107.490	10.61730	2.39700	-1.29970	1.12760	-.93820	-.10740	.00000	.62290	.00000	-.10740
.999	105.490	10.70710	2.82590	-1.28950	1.08220	-.93830	-.02340	.00000	.61810	.00000	-.02340
.999	103.480	10.72800	3.21590	-1.33000	.97460	-.92980	.03920	.00000	.61350	.00000	.03920
.999	101.490	10.87590	3.77480	-1.30590	.95670	-.92630	.11800	.00000	.60750	.00000	.11800
.999	99.510	10.90880	4.36100	-1.30810	.91850	-.91730	.19540	.00000	.60090	.00000	.19540
.999	97.520	10.99000	4.96660	-1.29470	.91320	-.90660	.28830	.00000	.59430	.00000	.28830
.999	95.540	11.06470	5.51160	-1.28960	.88390	-.90830	.37000	.00000	.58840	.00000	.37000
.999	93.540	11.09700	5.99540	-1.26680	.92410	-.90760	.40740	.00000	.58310	.00000	.40740
.999	91.560	11.20540	6.48340	-1.24960	.96800	-.90850	.39600	.00000	.57820	.00000	.39600
.999	89.700	11.24140	6.95550	-1.20500	1.01010	-.90660	.37070	.00000	.57340	.00000	.37070
.999	99.550	10.88230	4.33890	-1.29920	.91210	-.91530	.20230	.00000	.60100	.00000	.20230
.999	GRADIENT	-.03755	-.25951	-.00359	.00849	-.00277	-.03166	.00000	.00284	.00000	-.03166

NSFC 507(74A) TITAN III C 82M (HNSIFP)

(R07107) (23 APR 74)

REFERENCE DATA

REF = .6300 90. IN ZIMP = 4.6330 IN.
 LREF = .9000 IN. YIMP = .0000 IN.
 SREF = .9000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 359/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWK	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
.997	129.400	0.40030	-2.30270	-1.39090	2.63740	-33450	-76310	.00000	.70210	.00000	-.76310
.997	127.520	0.62070	-2.74450	-1.43150	2.42770	-30660	-.60090	.00000	.70170	.00000	-.60090
.997	125.490	7.17200	-2.07290	-1.30120	2.40330	-41140	-59790	.00000	.69860	.00000	-.99790
.997	123.460	7.50290	-2.79110	-1.13950	1.61370	-41060	-.47660	.00000	.69860	.00000	-.47660
.997	121.430	7.67310	-2.40000	-1.23790	1.69240	-41060	-.42760	.00000	.69240	.00000	-.42760
.997	119.440	7.92120	-2.25450	-1.10510	1.76900	-43470	-.32160	.00000	.66750	.00000	-.32160
.997	117.430	0.13670	-1.94220	-.99570	1.65060	-44030	-.23160	.00000	.66170	.00000	-.23160
.997	115.430	0.29510	-1.50600	-.90570	1.63000	-.45320	-.16430	.00000	.67570	.00000	-.16430
.997	113.420	0.36830	-1.06100	-.85890	1.65000	-.42190	-.10300	.00000	.66750	.00000	-.10300
.997	111.430	0.44840	-.63050	-.84590	1.60640	-.41330	-.05110	.00000	.66100	.00000	-.05110
.997	109.540	0.46400	-.26500	-.84000	1.54670	-.40390	.00360	.00000	.65550	.00000	.00360
.997	119.470	7.07160	-2.25200	-1.11430	1.76250	-.42180	-.32680	.00000	.66770	.00000	-.32680
GRADIENT		-.09090	-.12631	-.03267	.05257	.00262	-.03942	.00000	.00248	.00000	-.03942

RUN NO. 358/ 0 RM/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWN	CLWK	CYN	CYWN	CBL	CA	CAB	XCP/L	CPB1	CAF
.998	129.130	0.23990	-2.28440	-1.21640	1.77540	-.40990	-.94120	.00000	.68660	.00000	-.94120
.998	127.240	0.50600	-2.19330	-1.14910	1.64060	-.49490	-.84490	.00000	.68410	.00000	-.84490
.998	125.220	0.84750	-1.90310	-1.11930	1.92710	-.50010	-.76270	.00000	.67870	.00000	-.76270
.998	123.220	0.20750	-1.50630	-1.10240	1.80990	-.51040	-.67450	.00000	.67330	.00000	-.67450
.998	121.200	9.44090	-1.20350	-1.24010	1.60690	-.52190	-.99510	.00000	.66760	.00000	-.99510
.998	119.210	0.63730	-.79040	-1.29400	1.46470	-.51600	-.50510	.00000	.66190	.00000	-.50510
.998	117.230	9.09290	-.23150	-1.30370	1.29970	-.52770	-.42850	.00000	.65450	.00000	-.42850
.998	115.230	10.04200	.39090	-1.32340	1.24850	-.53030	-.35480	.00000	.64650	.00000	-.35480
.998	113.290	10.20090	.09030	-1.34690	1.19520	-.52920	-.28850	.00000	.64030	.00000	-.28850
.998	111.260	10.34340	1.31670	-1.35220	1.14900	-.53810	-.20730	.00000	.63540	.00000	-.20730
.998	109.340	10.40390	1.01240	-1.32220	1.10730	-.53160	-.12870	.00000	.62960	.00000	-.12870
.998	119.240	9.65070	-.78460	-1.29250	1.47840	-.52630	-.51450	.00000	.66160	.00000	-.51450
GRADIENT		-.11308	-.21069	-.01051	.04504	.00224	-.04042	.00000	.07303	.00000	-.04042



(R07107) (23 APR 74)

NSFC 507(FAA) TITAN III C SWM (NRSTP)

PARAMETRIC DATA

REF = .0360 90. IN XMRP = 1.033C IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074
 BETA = .000 PHE = 90.000

RUN NO. 357/ 0 RM/L = 0.09 GRADIENT INTERVAL = -5.00/ 5.00

NSCN	ALPHA	CMN	CLMN	CYN	CYMN	CBL	CA	CAB	XCP/L	CPB1	CAF
1.193	129.130	10.06990	2.15680	-1.56000	1.29410	-0.37200	-1.24220	.00000	.62440	.00000	-1.24220
1.193	127.230	10.47720	2.24700	-1.51400	1.29420	-0.39720	-1.14390	.00000	.62430	.00000	-1.14390
1.193	125.180	10.66480	1.93700	-1.60150	1.20500	-0.60710	-1.02900	.00000	.62850	.00000	-1.02900
1.193	123.200	11.20470	2.49130	-1.59700	1.44780	-0.62440	-0.94890	.00000	.62330	.00000	-0.94890
1.193	121.180	11.00450	2.88130	-1.59790	1.56060	-0.64590	-0.85960	.00000	.62010	.00000	-0.85960
1.193	119.170	11.00940	3.04960	-1.66120	1.41490	-0.64610	-0.77890	.00000	.61880	.00000	-0.77890
1.193	117.170	12.10760	3.35490	-1.63870	1.54060	-0.65940	-0.68130	.00000	.61640	.00000	-0.68130
1.193	115.180	12.31980	3.80990	-1.62470	1.59480	-0.67200	-0.60320	.00000	.61240	.00000	-0.60320
1.193	113.190	12.58190	4.16920	-1.64740	1.50340	-0.67810	-0.50680	.00000	.60940	.00070	-0.50680
1.193	111.180	12.89200	4.09390	-1.79920	1.49840	-0.69670	-0.40030	.00000	.61070	.00000	-0.40030
1.193	109.270	12.89690	4.46140	-1.73350	1.44840	-0.70690	-0.31670	.00000	.60770	.00000	-0.31670
1.193	119.200	11.67460	3.13910	-1.59870	1.52930	-0.63320	-0.78260	.00000	.61740	.00000	-0.78260
GRADIENT		-0.14268	-0.13078	.00919	-0.01105	.00634	-0.04371	.00000	.00101	.00000	-0.04371

WOPC 307 (PAA) TITAN III C 3RM (MDETP)

(IN07100) (23 APR 74)

REFERENCE DATA

WOPC = .0300 30. IN XMRP = 4.6330 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 346/ 0 RM/L = 0.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	148.370	4.93670	-1.06430	-2.19430	2.13240	-2.26510	-1.34730	.19280	.69400	-.19280	-1.54020
.000	146.370	5.30610	-1.74780	-2.06300	2.02100	-2.29480	-1.33010	.23100	.69280	-.23100	-1.58190
.000	144.450	6.16270	-1.80700	-1.89940	3.33500	-3.63350	-1.30490	.26730	.69020	-.26730	-1.57220
.000	142.330	6.64720	-1.90380	-1.91350	3.48910	-3.8870	-1.23990	.28200	.68870	-.28200	-1.54130
.000	140.190	7.50170	-1.87290	-1.76880	3.98610	-4.2650	-1.18490	.27200	.68310	-.27200	-1.45890
.000	138.070	8.14080	-1.82960	-1.70580	3.95830	-4.6370	-1.11560	.30260	.67990	-.30260	-1.41850
.000	135.980	8.67700	-1.87080	-1.71780	3.89710	-4.9780	-1.06000	.35020	.67680	-.32020	-1.38520
.000	133.920	9.06410	-1.81908	-1.72540	3.99010	-5.3190	-.99940	.33390	.67690	-.33390	-1.33330
.000	131.870	9.33090	-1.82100	-1.64750	3.81880	-5.4920	-.92600	.34400	.67620	-.34400	-1.27000
.000	129.800	9.79250	-1.65540	-1.62920	3.68940	-5.9810	-.85040	.36330	.67300	-.36330	-1.21380
.000	127.830	10.14530	-1.37590	-1.45570	3.78430	-5.7660	-.78250	.37230	.66860	-.37230	-1.15490
.000	138.080	8.13210	-1.84120	-1.69980	3.88740	-4.6860	-1.11880	.29890	.68010	-.29890	-1.41780
GRADIENT		-.23308	-.01067	-.02920	-.05763	.01540	-.02841	-.00787	.00118	.00787	-.02054

RUN NO. 347/ 0 RM/L = 0.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMH	CLMH	CYN	CYMH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.193	146.340	6.68000	-0.88950	-1.73880	1.57950	-4.4540	-1.72210	.42040	.65320	-.42040	-2.19090
1.193	146.030	7.33480	-.26480	-1.67520	2.01470	-4.80660	-1.72310	.46090	.64690	-.46090	-2.18600
1.193	143.900	7.99820	-.54820	-1.62230	2.33520	-5.2320	-1.68930	.47390	.64280	-.47390	-2.18320
1.193	141.770	8.59320	-.87190	-1.62400	2.56450	-5.6210	-1.64300	.41840	.64310	-.41840	-2.18140
1.193	139.650	9.18130	-.88680	-1.61330	2.66480	-5.8940	-1.57170	.41880	.64200	-.41880	-1.99060
1.193	137.540	9.63440	-.74850	-1.73390	2.34870	-5.9800	-1.51910	.43910	.64160	-.43910	-1.95830
1.193	135.430	10.11300	-.64660	-1.86410	2.02300	-6.1380	-1.45840	.44650	.64090	-.44650	-1.89700
1.193	133.390	10.46730	1.05090	-1.91540	2.03350	-6.3460	-1.36950	.43940	.63880	-.43940	-1.85890
1.193	131.310	10.83000	1.19180	-1.99960	2.09820	-6.6070	-1.28290	.44160	.63800	-.44160	-1.72460
1.193	129.250	11.08720	1.08840	-1.86380	1.77330	-6.5360	-1.17680	.42370	.63910	-.42370	-1.50530
1.193	127.280	11.39290	1.17610	-1.96970	1.74300	-6.7540	-1.09340	.33300	.63840	-.33300	-1.38690
1.193	137.580	9.63910	-.81510	-1.79170	2.39240	-6.8210	-1.52040	.43008	.64080	-.43008	-1.95533
GRADIENT		-.22301	-.05483	.01797	-.01156	.01039	-.03223	.00282	.00036	-.00282	-.03357



TABULATED SOURCE DATA, NSFC TWT 587

DATE 11 JUL 74

(097106) (23 APR 74)

NSFC 587 (FAA) TITAN III C SRN (MBETP)

PARAMETRIC DATA

REFERENCE DATA

SREF = .6390 50. IN XMRP = 4.6336 IN.
 LREF = .9000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

BETA = .000 PHI = 90.000

RUN NO. 339/ 0 RM/L = 7.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
1.933	148.320	5.37540	1.67990	-1.96440	-1.73200	-3.3990	-1.73200	.23000	.61330	-.23000	-1.97070
1.933	146.310	6.03450	1.76140	-1.01030	-.39190	-3.7970	-1.71990	.24910	.61450	-.24910	-1.94900
1.933	144.200	6.68870	1.83740	-1.03590	.62430	-.40860	-1.70960	.24860	.61390	-.24860	-1.93030
1.933	142.030	7.05130	1.83760	-1.09420	.63790	-.44780	-1.69750	.24920	.61850	-.24920	-1.90870
1.933	139.910	7.34890	1.93510	-1.14790	.62590	-.47350	-1.61970	.24090	.61900	-.24090	-1.86870
1.933	137.790	8.08000	2.11100	-1.16330	.62170	-.47780	-1.57450	.23300	.61830	-.23300	-1.80760
1.933	135.690	8.33270	2.32100	-1.17890	.60840	-.49680	-1.52400	.22590	.61700	-.22590	-1.75020
1.933	133.620	8.93630	2.54490	-1.18750	.60000	-.50760	-1.45490	.21000	.61540	-.21000	-1.66490
1.933	131.500	9.42430	2.73920	-1.17840	.73990	-.51990	-1.38850	.20130	.61470	-.20130	-1.59000
1.933	129.370	9.94130	2.86300	-1.21020	.76530	-.54410	-1.30860	.19250	.61300	-.19250	-1.50310
1.933	127.390	10.29090	2.99000	-1.20950	.70640	-.54330	-1.22000	.18080	.61320	-.18080	-1.40960
1.933	137.890	7.86330	2.01270	-1.13610	.90640	-.48290	-1.35520	.22430	.61910	-.22430	-1.77930
GRADIENT		-.22000	-.06391	.01153	-.00985	.00944	-.02395	.00321	-.00000	-.00321	-.02716

RUN NO. 323/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNN	CLMN	CYN	CYNN	CBL	CA	CAB	XCP/L	CPBI	CAF
3.480	148.940	4.22110	1.26340	-.44200	.32020	-.21760	-1.68160	.07450	.61360	-.07450	-1.75610
3.480	146.970	4.84960	1.28930	-.52430	.31390	-.24100	-1.66830	.07090	.61640	-.07090	-1.73080
3.480	144.990	5.09920	1.21940	-.49720	.39230	-.28170	-1.64670	.06380	.62120	-.06380	-1.71290
3.480	142.810	5.80700	1.41360	-.52410	.41560	-.30220	-1.63130	.06310	.61960	-.06310	-1.69450
3.480	140.740	6.10150	1.57280	-.55660	.42230	-.31720	-1.60610	.06010	.61820	-.06010	-1.66650
3.480	138.660	6.81270	1.73970	-.57650	.42910	-.33280	-1.58170	.05400	.61620	-.05400	-1.63630
3.480	136.590	7.06650	1.93400	-.60310	.45930	-.34460	-1.54490	.04950	.61600	-.04950	-1.59350
3.480	134.510	7.51150	2.10970	-.61740	.47010	-.36230	-1.48890	.04130	.61590	-.04130	-1.53020
3.480	132.460	7.94490	2.34890	-.61980	.50070	-.38430	-1.41970	.03300	.61410	-.03300	-1.44880
3.480	130.400	8.38700	2.55310	-.64120	.52190	-.39930	-1.32940	.02390	.61290	-.02390	-1.33340
3.480	128.450	8.78200	2.77030	-.65870	.57300	-.41340	-1.24420	.01320	.61160	-.01320	-1.23730
3.480	138.690	6.60720	1.79370	-.57890	.44900	-.34940	-1.58660	.05240	.61920	-.05240	-1.63910
GRADIENT		-.22487	-.07819	.00944	-.01123	.00901	-.02019	.00285	-.00024	-.00285	-.02303

MSFC 907(F74) TITAN III C SRM (MSFC7P)

(097100) (23 APR 74)

REFERENCE DATA

SREF = .0300 IN XMRP = 4.0330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 SREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .005 PBI = 90.000

RUN NO. 382/ 0 RM/L = 4.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWH	CTW	CTWH	CBL	CA	CAB	XCP/L	CPBI	CAF
4.939	149.340	3.70640	1.30140	-.33480	.20030	-.15750	-1.69690	.01720	.60700	-.01720	-1.73380
4.939	147.410	4.10980	1.39870	-.35070	.20060	-.10100	-1.65780	.01470	.66420	-.01470	-1.67280
4.939	145.370	4.69970	1.47580	-.39230	.20910	-.21100	-1.64230	.01140	.61170	-.01140	-1.65380
4.939	143.340	5.18360	1.54120	-.40870	.31850	-.24890	-1.63620	.00660	.61390	-.00860	-1.64290
4.939	141.300	5.66490	1.66480	-.44890	.29290	-.24960	-1.62900	.00240	.61430	-.00240	-1.63140
4.939	139.270	6.17970	1.77680	-.48890	.31940	-.28110	-1.59910	-.00210	.61510	.00210	-1.59600
4.939	137.240	6.60280	1.93470	-.47880	.34710	-.28310	-1.57530	-.00690	.61440	.05890	-1.56830
4.939	135.190	7.11410	2.25100	-.49580	.36360	-.30160	-1.52430	-.01270	.61180	.01270	-1.51160
4.939	133.150	7.54010	2.42180	-.51260	.41590	-.32260	-1.44350	-.01900	.61080	.01900	-1.42450
4.939	131.150	7.96480	2.67300	-.54400	.44280	-.34130	-1.36450	-.02650	.60900	.02650	-1.33800
4.939	129.220	8.39160	2.99440	-.54590	.45580	-.33450	-1.28290	-.03480	.60760	.03480	-1.24800
4.939	129.290	8.15030	1.79360	-.43500	.32770	-.26970	-1.60810	-.00390	.61460	.05360	-1.60220
GRADIENT		-.23293	-.07884	.01076	-.01129	.00899	-.01646	.60293	.00602	-.06293	-.02182



NSFC 507(F44) TITAN III C 8RM (MDETP)

(R07100) (23 APR 74)

REFERENCE DATA

BREF = .0300 IN IMP = 4.0330 IN.
 LBREF = .9000 IN. TMRP = .0000 IN.
 RBREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PRI = 90.000

RUN NO. 348/ 0 RN/L = 0.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWN	CYN	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.192	189.300	-1.30730	-4.9240	-2.7400	-0.7250	-1.93970	.11300	.61030	-.11300	-1.64580
1.192	167.310	-1.52210	-7.0400	-4.6650	-0.9380	-1.54000	.13360	.79420	-.13360	-1.67360
1.192	165.200	-1.77760	-9.9000	-7.1470	-1.13230	-1.57490	.17010	.76370	-.17010	-1.74500
1.192	163.080	-2.27000	-1.36370	-8.9180	-1.18990	-1.62270	.20300	.74820	-.20300	-1.82580
1.192	160.950	-2.62650	-1.82310	-1.07320	-1.19240	-1.67770	.24060	.72910	-.24060	-1.91640
1.192	158.840	-3.38000	-2.60840	-9.9510	-2.0190	-1.70170	.25910	.70950	-.25910	-1.98990
1.192	156.720	-4.02800	-2.20020	-8.4860	-2.2400	-1.71520	.29960	.69040	-.29960	-2.00990
1.192	154.590	-4.66870	-2.24930	-2.0000	-2.2110	-1.72820	.32370	.67630	-.32370	-2.03000
1.192	152.440	-5.42560	-2.18990	-4.4510	-3.3040	-1.73460	.36680	.66000	-.36680	-2.12150
1.192	150.320	-6.09610	-1.90970	1.00000	-3.9820	-1.75340	.42370	.64000	-.42370	-2.17220
1.192	148.270	-6.79020	-1.91180	1.48130	-4.2680	-1.76090	.47330	.62330	-.47330	-2.23420
1.192	158.660	-3.37810	-2.01240	-9.7180	-2.1200	-1.69800	.25640	.70970	-.25640	-1.95450
GRADIENT	-2.2824	-0.6470	-0.7734	-0.06559	.01640	-.01161	-.01677	.00782	.01677	-.02639

RUN NO. 338/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLWN	CYN	CYWN	CBL	CA	CAB	KCP/L	CPB1	CAF
1.984	169.310	-1.40220	-4.9230	-3.2770	-0.8690	-1.68110	.09160	.73360	-.09160	-1.77280
1.984	167.320	-1.59200	-6.2960	-5.0650	-1.1110	-1.70220	.10840	.70410	-.10840	-1.81370
1.984	165.230	-1.45990	-7.7460	-5.9780	-1.3180	-1.72240	.11790	.68330	-.11790	-1.84040
1.984	163.140	-2.2240	-8.4180	-4.8420	-1.5170	-1.73990	.12970	.66370	-.12970	-1.86560
1.984	161.045	-2.00690	-9.0260	-3.6610	-1.7420	-1.74190	.14440	.65180	-.14440	-1.88930
1.984	158.940	-2.6320	-9.4810	-1.4736	-1.9350	-1.77140	.15890	.64110	-.15890	-1.93030
1.984	156.830	-3.71310	-9.9280	-1.9270	-2.2050	-1.78420	.14310	.63160	-.14310	-1.92740
1.984	154.730	-4.80290	-8.9800	-3.5670	-2.4840	-1.74910	.07770	.62450	-.07770	-1.92680
1.984	152.630	-4.68280	-8.8990	-4.9940	-2.7010	-1.75270	.02440	.62070	-.02440	-1.75710
1.984	150.520	-5.18660	-9.9070	-5.7990	-3.0660	-1.72820	-.02250	.61900	-.02250	-1.70560
1.984	148.420	-5.63370	-9.9290	-6.0370	-3.4300	-1.71410	-.06590	.61720	-.06590	-1.64920
1.984	159.000	-3.12540	-6.6760	-1.3970	-1.8770	-1.73996	.14790	.63370	-.14790	-1.88780
GRADIENT	-2.2370	-1.1491	-0.0161	-0.06332	.01173	-.00195	-.00740	.00927	.00927	-.00966

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

HOPC 907 (FPA) TITAN III L (23 APR 74)

(23 APR 74)

REFERENCE DATA

DEEP = .3300 SQ. IN XIMP = 4.0330 IN.
 LINEP = .9000 IN. YIMP = .0000 IN.
 NDEP = .9000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PHYSICAL DATA

BETA = .500 PMI = 90.000

RUN NO. 324/ 0 RM/L = 0.30 GRADIENT INTERVAL = -5.00/ 5.00

WACR	ALPHA	CWN	CLWN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPBI	CAP
3.000	169.410	.78200	-.16670	-.21500	-.11000	-.04760	-1.00320	.06110	.07920	-.06110	-1.74430
3.000	167.505	.90840	-.09110	-.20410	-.13350	-.10150	-1.09760	.06270	.05000	-.06270	-1.76040
3.200	165.530	1.23000	.09150	-.30070	-.16150	-.09200	-1.70930	.06510	.04210	-.06510	-1.77440
3.400	163.490	1.51470	.24820	-.35900	-.19960	-.09230	-1.70770	.06720	.03070	-.06720	-1.77500
3.600	161.450	1.83320	.47000	-.36610	-.09110	-.11020	-1.71190	.06770	.01900	-.06770	-1.77900
3.800	159.400	2.17720	.69070	-.36410	.01370	-.12090	-1.71970	.05500	.01190	-.05500	-1.77470
3.800	157.350	2.55040	.06700	-.36700	.11702	-.14140	-1.71600	.03360	.00050	-.03360	-1.75280
3.800	155.290	2.94160	1.04010	-.37640	.17240	-.16320	-1.71780	.01520	.00670	-.01520	-1.73310
3.800	153.230	3.33500	1.13460	-.38360	.22100	-.17690	-1.70020	.00250	.00040	-.00250	-1.70270
3.800	151.180	3.74170	1.18000	-.40360	.26950	-.20050	-1.68350	-.01100	.01150	-.01100	-1.67220
3.800	149.130	4.17400	1.23950	-.42900	.34100	-.22750	-1.66730	-.02320	.01390	-.02320	-1.64210
3.800	159.420	2.16300	.06010	-.36390	.02350	-.12510	-1.71050	.05280	.01290	-.05280	-1.77130
GRADIENT		-.16900	-.07602	-.00646	-.02666	-.00793	-.00062	.00470	.00299	-.00470	-.00532

RUN NO. 325/ 0 RM/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

WACR	ALPHA	CWN	CLWN	CTN	CTNM	CBL	CA	CAB	XCP/L	CPBI	CAP
4.000	169.590	.56112	-.20720	-.12010	-.00150	-.02350	-1.69700	.01620	.69020	-.01620	-1.67530
4.000	167.600	.70030	-.16670	-.16330	.00360	-.05000	-1.67190	.02050	.60160	-.02050	-1.69250
4.000	165.600	.92430	.00910	-.20900	-.05000	-.03500	-1.66310	.02170	.65020	-.02170	-1.69490
4.000	163.630	1.15020	.16640	-.23790	-.02370	-.07120	-1.66430	.02250	.63070	-.02250	-1.70690
4.000	161.630	1.46320	.44470	-.24000	.00340	-.09000	-1.69010	.02290	.61300	-.02290	-1.71260
4.000	159.610	1.80290	.71590	-.23950	.06940	-.09900	-1.71520	.01970	.60120	-.01970	-1.73490
4.000	157.590	2.17590	.97260	-.24940	.15040	-.09730	-1.70530	.01070	.59400	-.01070	-1.71600
4.000	155.570	2.57200	1.06670	-.26450	.16900	-.12300	-1.70790	-.00330	.59000	.00330	-1.70450
4.000	153.540	2.99450	1.16430	-.26360	.19140	-.07200	-1.67130	-.01770	.60040	.01770	-1.65360
4.000	151.510	3.33600	1.26670	-.29410	.22500	-.14490	-1.65750	-.03460	.60220	.03460	-1.62280
4.000	149.500	3.70000	1.40950	-.30090	.27350	-.16310	-1.65940	-.05000	.60440	.05000	-1.60650
4.000	159.620	1.77020	.70050	-.24350	.01620	-.09260	-1.68630	.01170	.60160	-.01170	-1.69610
GRADIENT		-.16401	-.06946	.00769	-.01612	.00375	.00016	.00336	.00460	-.00336	-.00321



WAPC 507 (FAA) TITAN III C 88M (MBETP)

(097110) (25 APR 74)

REFERENCE DATA

XREF = .0300 IN. INRP = 4.6338 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 90.000

RUN NO. 337/0 RM/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
1.984	190.670	-.93900	1.10530	.12900	-.07050	.16970	-1.99400	-.07050	.80040	-.07050	-2.02330
1.984	188.670	-.68890	.84640	.09470	-.10710	.13960	-1.90410	.05100	.83150	-.05100	-1.95310
1.984	185.990	-.43490	.75890	.06390	-.11350	.10400	-1.84430	.03950	.87150	-.03950	-1.87900
1.984	183.930	-.27080	.64890	.03330	-.07500	.07210	-1.81370	.02860	.90850	-.02860	-1.84230
1.984	181.670	-.13420	.26980	.03990	-.05920	.05230	-1.77930	.02400	.90210	-.02400	-1.80590
1.984	179.810	-.01800	.00130	.01740	-.01140	.03230	-1.72630	.01760	.64270	-.01760	-1.74770
1.984	177.750	.17640	-.25130	-.03910	.01050	.01060	-1.69610	.01020	.83170	-.01020	-1.70630
1.984	175.600	.37010	-.43640	-.10930	-.01120	-.00930	-1.64740	.01810	.80070	-.01810	-1.68560
1.984	173.620	.59440	-.61660	-.16700	-.02800	-.01490	-1.64400	.02310	.79120	-.02310	-1.66720
1.984	171.550	.79550	-.70030	-.29830	-.11470	-.03560	-1.65430	.03810	.76290	-.03810	-1.69230
1.984	169.370	1.02210	-.70720	-.43780	-.30930	-.05070	-1.68140	.05910	.73420	-.05910	-1.74060
1.984	179.820	.04320	-.03330	-.00390	-.00490	.02540	-1.69940	.01720	.74920	-.01720	-1.71670
GRADIENT		-.09066	.09845	.02455	-.00336	.01061	-.01495	.00061	.00501	-.00061	-.01376

RUN NO. 327/0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLWH	CYN	CYWH	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	189.880	-.69680	.49140	.07330	-.04130	.10910	-1.99620	.09410	.72980	-.09410	-1.99030
3.480	187.930	-.50640	.41580	.03950	-.06790	.07690	-1.88880	.04880	.73900	-.04880	-1.93760
3.480	185.690	-.33200	.34030	.00000	-.07940	.04790	-1.84630	.04220	.78150	-.04220	-1.89050
3.480	183.880	-.20390	.22760	.00990	-.03230	.02950	-1.80400	.03820	.79270	-.03820	-1.84110
3.480	181.840	-.10130	.10130	.00200	-.00800	.01170	-1.76030	.03390	.77800	-.03390	-1.79420
3.480	179.810	-.02590	-.05450	-.00960	.03450	-.01180	-1.73070	.03290	.91760	-.03290	-1.76320
3.480	177.780	.12600	-.15550	-.03290	.04790	-.01930	-1.69880	.03140	.80760	-.03140	-1.73020
3.480	175.740	.29910	-.25040	-.05640	.03360	-.02790	-1.67680	.03730	.78400	-.03730	-1.71410
3.480	173.710	.37720	-.27740	-.06700	.00840	-.04310	-1.66620	.04490	.74460	-.04490	-1.71140
3.480	171.710	.59020	-.27940	-.14290	-.04390	-.04410	-1.66820	.05270	.71720	-.05270	-1.72090
3.480	169.770	.75050	-.28020	-.19930	-.11090	-.05880	-1.67030	.05720	.66520	-.05720	-1.72760
3.480	179.810	.02640	-.05420	-.00200	.03130	-.00900	-1.73870	.03270	.91110	-.03270	-1.77190
GRADIENT		-.06597	.04036	.01109	-.00121	.00782	-.01385	-.00017	.00212	-.00017	-.01367

NSPC 907 (FA4) TITAN III C 30M (MDETP)

(897110) (23 APR 74)

REFERENCE DATA

ORFP = .0300 IN ZMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BRFP = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 90.000

RUN NO. 386/ 0 RM/L = 4.93 GRADIENT INTERVAL = -9.00/ 9.00

NUCH	ALPHA	CMM	CLMM	CYM	CYMM	CBL	CA	CAB	ICP/L	CPB1	CAF
4.939	169.778	-.62138	.27060	.68390	-.00050	.00070	-1.06170	.01940	.70600	-.01940	-1.07720
4.939	187.840	-.49290	.29070	.09410	.04300	.07620	-1.02430	.01920	.73440	-.01920	-1.03060
4.939	181.840	-.28930	.22990	-.00070	.01110	.04180	-1.79030	.01420	.79100	-.01420	-1.00490
4.939	183.840	-.22400	.19400	.04240	.03450	.04720	-1.73690	.01240	.76220	-.01240	-1.74930
4.939	181.838	-.11390	.06600	.00170	.02620	.03310	-1.70840	.01270	.72980	-.01270	-1.72110
4.939	177.800	.04490	-.13070	-.01060	.09400	.01170	-1.67970	.01270	.85820	-.01270	-1.69290
4.939	179.800	.17010	-.22030	-.02230	.09490	-.00860	-1.64230	.01270	.81330	-.01270	-1.69310
4.939	173.700	.31180	-.27120	-.03340	.06370	-.01690	-1.66070	.01320	.76180	-.01320	-1.67390
4.939	171.700	.39390	-.29170	-.07790	.09310	-.03130	-1.61870	.01600	.74920	-.01600	-1.63470
4.939	169.870	.93370	-.22140	-.10950	-.00840	-.01600	-1.62200	.01820	.70400	-.01820	-1.64030
4.939	179.810	.02910	-.07900	.00410	.04100	.02410	-1.70920	.01320	.98100	-.01320	-1.71840
GRADIENT	-.05424	.03941	.00761	-.00118	.00582	-.01194	-.00007	-.00007	-.00137	.00007	-.01187



NSFC 507(FAA) TITAN III C SRM (MSETP)

(R07130) (23 APR 74)

REFERENCE DATA

REF = .0380 IN THRP = 4.0330 IN.
 LREF = .0000 IN. THRP = .0000 IN.
 BREF = .0000 IN. ZREF = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 353/ 0 RM/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMN	CYN	CYMN	CBL	CA	CAS	KCP/L	CPP/L	CAP
.999	109.500	7.37730	.66490	.19190	.82100	.09170	-.02440	.00000	.64010	.00000	-.02440
.999	107.750	7.48300	1.05910	.13410	.87920	.09730	.05480	.00000	.63350	.00000	.09400
.999	105.740	7.56070	1.40320	.04500	.34090	.01440	.13740	.00000	.62660	.00000	.13740
.999	103.730	7.62000	2.00200	-.03610	.30723	.02040	.21750	.00000	.61920	.00000	.21750
.999	101.720	7.65990	2.54090	-.04690	.48030	.05820	.29110	.00000	.60930	.00000	.29110
.999	99.710	7.70000	3.06100	-.12010	.63960	.09920	.34820	.00000	.60120	.00000	.34820
.999	97.700	7.74990	3.49940	-.17000	.79060	.05330	.44030	.00000	.59500	.00000	.44030
.999	95.690	7.79980	3.83230	-.19720	.80260	.03410	.52470	.00000	.58920	.00000	.52470
.999	93.680	7.75030	4.12370	-.16210	.63030	.02440	.59320	.00000	.58420	.00000	.59320
.999	91.670	7.70300	4.40040	-.14040	.80950	.01700	.65500	.00000	.57950	.00000	.65500
.999	89.660	7.64900	4.60360	-.15190	.69270	.03640	.73060	.00000	.57320	.00000	.73060
.999	87.650	7.70630	3.02720	-.11920	.64030	.02590	.34990	.00000	.60100	.00000	.34990
GRADIENT		-.01910	-.21400	.01677	-.03744	.00007	-.03779	.00000	.00344	.00000	-.03779

RUN NO. 352/ 0 RM/L = 6.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CUM	CLMN	CYN	CYMN	CBL	CA	CAB	KCP/L	CPP/L	CAP
.900	109.410	9.09290	2.43900	.19200	.30910	.01970	-.12900	.00000	.61730	.00000	-.12900
.900	107.530	9.27330	2.97000	.13030	.42220	.02230	-.05230	.00000	.61090	.00000	-.05230
.900	105.590	9.39990	3.50960	.19340	.49610	.01670	.05110	.00000	.60430	.00000	.05110
.900	103.570	9.48660	3.99940	.15230	.48450	.02140	.12230	.00000	.59610	.00000	.12230
.900	101.500	9.57010	4.43900	.19730	.48030	.01420	.20760	.00000	.59260	.00000	.20760
.900	99.600	9.70570	4.99030	.16220	.51480	.02420	.30320	.00000	.58640	.00000	.30320
.900	97.620	9.78950	5.50070	.17790	.54350	.01930	.38880	.00000	.58040	.00000	.38880
.900	95.640	9.87950	5.96230	.19490	.54450	.03020	.48340	.00000	.57510	.00000	.48340
.900	93.660	9.97500	6.41860	.19460	.59340	.02990	.54440	.00000	.57000	.00000	.54440
.900	91.690	10.10100	7.14200	.22390	.50760	.03130	.49210	.00000	.56270	.00000	.49010
.900	89.720	10.29370	7.82420	.22000	.61980	.02240	.44550	.00000	.55330	.00000	.44350
.900	87.650	9.89370	5.17620	.17900	.56620	.01860	.27790	.00000	.56490	.00000	.27790
GRADIENT		-.09695	-.26373	-.00420	-.01121	-.00032	-.03452	.00000	.00306	.00000	-.02492

MOPC 907 (FA4) TITAN III C 98M (MDETP)

(R07117) (23 APR 74)

REFERENCE DATA

SHEP = .0300 34. IN XIMP = 4.0330 IN.
 LREP = .0000 14. YIMP = .0000 IN.
 SRA = .0000 14. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 43.000

RUN NO. 354/ 0 RM/L = 4.99 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CHW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.001	129.450	5.33460	-1.26420	-.23900	-.04460	.04650	-.76720	.00000	.66130	.00000	-.76720
.001	127.800	5.60790	-1.27440	-.19900	-.03930	.07820	-.70450	.00000	.68020	.00000	-.70450
.001	125.370	5.90080	-1.27330	-.06450	-.00330	.06120	-.61970	.00000	.67980	.00000	-.61970
.001	123.350	6.11630	-1.18200	-.01030	-.12930	.06080	-.50260	.00000	.67390	.00000	-.50260
.001	121.320	6.30360	-1.02880	-.03290	-.10890	.06370	-.43970	.00000	.67190	.00000	-.43970
.001	119.320	6.40570	-.84750	-.01260	-.15330	.05690	-.34250	.00000	.66770	.00000	-.34250
.001	117.320	6.47460	-.67300	.09590	-.07980	.04170	-.26710	.00000	.66390	.00000	-.26710
.001	115.300	7.02720	-.45140	.15240	-.01100	.03320	-.17290	.00000	.65960	.00000	-.17290
.001	113.480	7.19730	-.16030	.19910	-.00430	.03410	-.08090	.00000	.65430	.00000	-.08090
.001	111.499	7.40680	-.20070	.17030	-.19260	.03350	.02070	.00000	.64880	.00000	.02070
.001	109.630	7.47250	.52810	.18440	.19450	.04590	.11010	.00000	.64250	.00000	.11010
.001	119.340	6.39370	-.84700	-.01160	-.18360	.04810	-.35360	.00000	.66770	.00000	-.35360
GRADIENT		-.10959	-.09105	-.02134	-.00661	.00175	-.04478	.00000	.00199	.00000	-.04478

RUN NO. 355/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	CHW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
.006	129.240	6.07180	-1.77460	-.26640	-.07780	.05010	-.89340	.00000	.68310	.00000	-.89340
.006	127.330	7.01840	-1.66190	-.23650	-.05740	.05230	-.78020	.00000	.68180	.00000	-.78020
.006	125.300	7.34740	-1.51010	.19100	-.03360	.05010	-.70610	.00000	.67750	.00000	-.70610
.006	123.320	7.67510	-1.27000	.19100	-.02040	.04610	-.61040	.00000	.67240	.00000	-.61040
.006	121.320	7.95690	-.93240	.12410	.06630	.03170	-.52810	.00000	.66660	.00000	-.52810
.006	119.300	8.28240	-.41460	.07810	.22740	.01590	-.46160	.00000	.65780	.00000	-.46160
.006	117.300	8.52880	.17180	.09010	.31350	.02290	-.39150	.00000	.64890	.00000	-.39150
.006	115.300	8.66310	.73260	.10410	.40870	.02930	-.30980	.00000	.64080	.00000	-.30980
.006	113.330	8.69490	1.34930	.12450	.42900	.03480	-.24510	.00000	.63230	.00000	-.24510
.006	111.350	9.13050	1.93360	.13330	.42540	.03620	-.16650	.00000	.62470	.00000	-.16650
.006	109.480	9.28700	2.41660	.14090	.41740	.04360	-.07470	.00000	.61850	.00000	-.07470
.006	119.320	8.38410	-.29830	.07330	.25400	.02260	-.46190	.00000	.65600	.00000	-.46190
GRADIENT		-.13102	-.22448	.00460	-.03085	.00081	-.03675	.00000	.00356	.00000	-.03675



TABULATED SOURCE DATA, NSFC TWT 587

DATE 11 JUL 74

(897117) (23 APR 74)

NSFC 987 (744) TITAN III C 81M (MDETP)

PARAMETRIC DATA

REFERENCE DATA
 SIZE = 0.988 IN ZMRP = 4.6338 IN.
 LREF = 0.988 IN. YMRP = 0.0000 IN.
 RREF = 0.988 IN. ZMRP = 0.0000 IN.
 SCALE = .0074
 BETA = .000 PHI = 45.000

RUN NO. 396/ 0 RM/L = 0.69 GRADIENT INTERVAL = -3.00/ 5.00

INCH	ALPHA	CMW	CLIM	CYN	CYM	CEL	CA	CAB	ICP/L	CPBI	CAF
1.197	129.210	8.58700	2.21650	.22710	.03780	.06480	-1.17760	.00000	.61680	.00000	-1.17760
1.197	127.320	8.99110	2.45980	.23490	.09950	.06340	-1.09610	.00000	.61690	.00000	-1.09610
1.197	125.300	9.40810	2.67260	.23400	.19350	.05110	-1.01010	.00000	.61350	.00000	-1.01010
1.197	123.300	9.72520	2.94740	.24810	.26320	.04710	-.92960	.00000	.61310	.00000	-.92960
1.197	121.290	10.11290	3.25990	.24970	.30890	.04090	-.84310	.00000	.61070	.00000	-.84310
1.197	119.280	10.47110	3.52620	.25100	.33010	.04070	-.75740	.00000	.60890	.00000	-.75740
1.197	117.260	10.75940	3.71520	.25980	.36450	.03720	-.66510	.00000	.60760	.00000	-.66510
1.197	115.270	10.98960	3.89690	.23990	.45000	.01790	-.57060	.00000	.60660	.00000	-.57060
1.197	113.280	11.21120	4.20560	.23510	.50290	.02290	-.48490	.00000	.60340	.00000	-.48490
1.197	111.280	11.44190	4.76790	.23690	.55160	.02480	-.40750	.00000	.59870	.00000	-.40750
1.197	109.250	11.67490	5.25490	.23050	.60360	.02470	-.38700	.00000	.59470	.00000	-.38700
1.197	119.310	10.46830	3.53350	.24230	.35310	.03460	-.75830	.00000	.60880	.00000	-.75830
GRADIENT		-.10016	-.07169	-.00032	-.01705	.00174	-.02697	.00000	.00052	.00000	-.02697

NSFC 597(74) TITAN III C SHN (MSETP)

(197110) (23 APR 74)

REFERENCE DATA

ORZF = .0300 IN ZMRP = 4.0300 IN.
 LORF = .0000 IN. YMRP = .0000 IN.
 ORZF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PNI = 43.000

RUN NO. 351/ 0 RM/L = 0.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
.000	140.910	3.29080	-1.19230	.90863	.33540	.06300	-1.20080	.06740	.69730	-.00740	-1.29030
.000	140.930	3.71130	-1.34940	1.03200	-.05200	.00000	-1.20400	.09440	.69730	-.09440	-1.29330
.000	144.800	4.23420	-1.30040	1.08440	-.06130	.11550	-1.20810	.13720	.69000	-.13720	-1.34940
.000	142.720	4.84010	-1.26430	.98450	-1.21470	.15830	-1.16920	.17410	.68450	-.17410	-1.30340
.000	140.020	5.37610	-1.32700	.93970	-1.31290	.18920	-1.15440	.19230	.68270	-.19230	-1.34890
.000	139.540	5.74090	-1.46160	.90300	-.87400	.17230	-1.04630	.19370	.68370	-.19370	-1.20610
.000	138.450	6.20330	-1.59640	.84860	-.87400	.15200	-.95960	.20690	.68360	-.20690	-1.25330
.000	134.300	6.94220	-1.90430	.90990	-.32840	.14150	-.88210	.20900	.68780	-.20900	-1.16360
.000	132.240	7.17290	-2.12300	.77560	-.32840	.14150	-.88210	.22310	.68890	-.22310	-1.10320
.000	130.180	7.80370	-2.14840	.71470	-.27040	.14130	-.79910	.23900	.68720	-.23900	-1.03010
.000	129.160	8.03130	-2.00980	.68430	-.18090	.13600	-.71910	.25580	.68440	-.25580	-.97490
.000	130.300	9.90310	-1.71450	.96740	-.93310	.17690	-1.08960	.19050	.68020	-.19050	-1.20010
GRADIENT		-.22890	-.05083	.01656	-.00222	-.00300	-.02445	-.00767	.00045	.00767	-.01679

RUN NO. 350/ 0 RM/L = 0.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMW	CLMW	CTN	CTNM	CBL	CA	CAB	XCP/L	CPB1	CAF
1.104	140.430	4.22820	-.41860	.36180	.71730	.04360	-1.59530	.23490	.68220	-.23490	-1.03020
1.104	146.450	5.46948	-.20260	.27000	.40030	.03240	-1.50860	.24330	.65820	-.24330	-1.03210
1.104	144.330	6.03368	.02950	.18890	-.04160	-.01900	-1.56920	.23730	.63090	-.23730	-1.00250
1.104	142.210	6.63990	.43170	.25730	.02180	.05590	-1.55790	.26670	.64360	-.26670	-1.02470
1.104	140.120	7.22290	.72700	.29800	.21860	.03950	-1.50690	.27500	.63870	-.27500	-1.70190
1.104	137.990	7.76880	1.00660	.33170	.15510	.02510	-1.43110	.27200	.63510	-.27200	-1.70320
1.104	135.880	8.34030	1.20980	.34570	.14380	.01370	-1.37920	.32290	.63220	-.32290	-1.70220
1.104	133.790	8.61020	1.44700	.28090	.01230	.00720	-1.31030	.33770	.63070	-.33770	-1.64010
1.104	131.700	9.18030	1.36900	.26950	.00680	.00540	-1.23040	.33040	.63270	-.33040	-1.56090
1.104	129.620	9.51370	1.35520	.26150	-.00200	.01310	-1.13600	.30340	.63340	-.30340	-1.43940
1.104	127.620	9.80040	1.44480	.25070	.02230	.01840	-1.04800	.26760	.63280	-.26760	-1.31640
1.104	130.010	7.70730	1.05880	.32310	.15660	.02190	-1.42660	.27320	.63430	-.27320	-1.69980
GRADIENT		-.24075	-.09636	.00146	.02193	.00104	-.02676	-.00380	.00141	.00380	-.02296



MSFC 907 (744) TITAN III C SRM (INDTP)

(807110) (23 APR 74)

REFERENCE DATA

DRZF = .0310 IN XMRP = 4.0330 IN.
 LBEP = .9000 IN. YMRP = .0000 IN.
 BRZF = .9000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 49.000

RUN NO. 334/ 0 RM/L = 0.91 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
1.959	140.510	4.09310	1.99090	.06280	.30310	-.01280	-1.70920	.23180	.59900	-.23180	-1.94090
1.959	146.510	5.33760	2.10910	.03310	.29330	-.01260	-1.09170	.25910	.59900	-.25910	-1.92090
1.959	144.470	5.09500	2.40020	.01370	.13870	-.01210	-1.06700	.23550	.59910	-.23550	-1.90290
1.959	142.350	6.28050	2.64490	.02270	.07600	-.00500	-1.03490	.23840	.59820	-.23840	-1.87500
1.959	140.220	6.78290	2.86810	.03430	.06120	-.00330	-1.98990	.23340	.59760	-.23340	-1.81930
1.959	138.110	7.21010	3.09010	.03720	.09020	.00400	-1.54040	.22890	.59720	-.22890	-1.76940
1.959	136.020	7.63080	3.28330	.04080	.06140	.01150	-1.40160	.22590	.59710	-.22590	-1.70750
1.959	133.880	8.07720	3.46700	.05670	.10110	.00350	-1.42090	.22200	.59710	-.22200	-1.64320
1.959	131.800	8.47840	3.67890	.07250	.10940	.00660	-1.35040	.21270	.59650	-.21270	-1.56320
1.959	129.890	8.82700	3.84310	.08860	.13300	.00070	-1.28090	.20140	.59700	-.20140	-1.48250
1.959	127.760	9.19700	4.03800	.09530	.13620	.00460	-1.19370	.19320	.59590	-.19320	-1.39700
1.959	126.180	7.10680	3.12250	.04110	.09950	.00350	-1.53620	.22240	.59590	-.22240	-1.75870
GRADIENT		-.21014	-.09873	-.00277	.00801	-.00096	-.02478	.00179	.00018	-.00179	-.02637

RUN NO. 332/ 0 RM/L = 0.40 GRADIENT INTERVAL = -5.00/ 5.00

INCH	ALPHA	CMW	CLMW	CYN	CYMW	CBL	CA	CAB	XCP/L	CPB1	CAF
3.480	149.040	3.86060	1.00040	-.02760	.13740	.01240	-1.00070	.06870	.59240	-.06870	-1.74940
3.480	147.100	4.24300	1.94380	-.00840	.13190	.01580	-1.67420	.06720	.59350	-.06720	-1.74150
3.480	145.080	4.65090	2.15410	-.00620	.06160	.01980	-1.07020	.06540	.59290	-.06540	-1.73570
3.480	143.000	5.05990	2.32480	.03020	.06830	.03110	-1.62440	.06380	.59350	-.06380	-1.68020
3.480	140.910	5.50700	2.50150	.04250	.07030	.02260	-1.59390	.06200	.59400	-.06200	-1.65590
3.480	138.830	5.95520	2.74890	.04150	.04730	.02790	-1.53840	.06000	.59310	-.06000	-1.59840
3.480	136.770	6.39120	2.95990	.03950	.07800	.00970	-1.50370	.05730	.59290	-.05730	-1.56100
3.480	134.870	6.81120	3.20920	.03130	.07950	.00550	-1.44890	.05170	.59190	-.05170	-1.50020
3.480	132.810	7.23520	3.43940	.03560	.09980	.00280	-1.36210	.04490	.59130	-.04490	-1.42700
3.480	130.590	7.65640	3.71300	.04000	.09960	-.00110	-1.50040	.03730	.59010	-.03730	-1.33770
3.480	128.660	8.02310	3.93180	.04400	.12190	-.00440	-1.22870	.02840	.58950	-.02840	-1.23720
3.480	126.890	8.35870	2.74870	.04800	.04990	.00890	-1.95160	.06130	.59310	-.06130	-1.61300
GRADIENT		-.20595	-.10520	-.00301	.00063	.00310	-.02237	.00182	.00016	-.00182	-.02418

HSPC 907 (7A4) TITAN III C SRM (H02ETP)

(R07310) (23 APR 74)

REFERENCE DATA

SREF = .0300 IN ZMRP = 4.6330 IN.
 LREF = .0000 IN. YMRP = .0000 IN.
 BREF = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 333/ 0 RM/L = 3.01 GRADIENT INTERVAL = -3.00/ 3.00

INCH	ALPHA	CMH	CLMH	CYH	CYHM	CBL	CA	CAB	SCP/L	CPH1	CAF
4.939	169.300	3.44890	1.94460	-.04190	.15500	.03170	-1.70610	.01240	.57990	-.01240	-1.72040
4.939	167.430	3.64590	1.96690	-.02590	.16070	.02830	-1.70660	.01000	.58070	-.01000	-1.71780
4.939	145.400	4.23790	2.13760	-.06760	.07400	.04330	-1.69000	.00790	.58760	-.00790	-1.69790
4.939	143.440	4.66880	2.30030	-.01040	.07370	.04670	-1.63460	.00460	.58910	-.00460	-1.69930
4.939	141.390	5.00070	2.46260	-.11030	.00160	.05890	-1.62340	.00190	.58970	-.00190	-1.62330
4.939	139.340	5.50170	2.67910	-.01120	.05200	.05980	-1.59150	-.00130	.59070	.00130	-1.59020
4.939	137.310	5.93590	2.90470	.03030	.05760	.04970	-1.54290	-.02560	.59070	.00560	-1.53730
4.939	135.240	6.41660	3.20760	.06980	.10860	.03170	-1.46420	-.00870	.58020	.00870	-1.45550
4.939	133.220	6.83930	3.45900	.04030	.06050	.04470	-1.40730	-.01190	.58730	.01190	-1.39930
4.939	131.190	7.26370	3.70700	.02340	.06740	.11360	-1.33300	-.01750	.58690	.01750	-1.31950
4.939	129.310	7.63530	3.90050	.02100	.12330	.04210	-1.25500	-.02300	.58640	.02300	-1.25120
4.939	128.480	8.06570	2.74390	.03140	.04460	.05110	-1.57590	-.00590	.58930	.00590	-1.57000
4.939	GRADIENT	-.21030	-.10304	-.00512	.00202	-.00146	-.02276	.00174	-.00015	-.00174	-.02453



NSPC 507(744) TITAN III C 3RM (HNETP)

(097110) (23 APR 74)

REFERENCE DATA

SHEP = .0300 SQ. IN ZHEP = 4.0330 IN.
 LHEP = .0000 IN. YHEP = .0000 IN.
 BHEP = .0000 IN. ZHEP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PMI = 49.000

RUN NO. 349/ 0 RM/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWM	CLWM	CYM	CYWM	CBL	CA	CAB	XCP/L	CPBI	CAF
1.200	169.430	.64940	-.94130	.04230	.00630	.02360	-1.59000	.10220	.03610	-.10220	-1.73310
1.200	167.478	.64350	-1.11070	.01920	-.00350	.03340	-1.54050	.20430	.01610	-.20430	-1.72990
1.200	165.410	1.10440	-1.21040	-.03470	-.20250	.03400	-1.55120	.21000	.79020	-.21000	-1.76190
1.200	163.390	1.41420	-1.36050	-.14710	-.23970	.06070	-1.55970	.21400	.77390	-.21400	-1.77060
1.200	161.230	1.74950	-1.49000	-.17610	-.22260	.07160	-1.56440	.21820	.75890	-.21820	-1.78280
1.200	159.120	2.10820	-1.53360	-.07540	.01210	.07570	-1.57340	.22030	.74220	-.22030	-1.79370
1.200	157.010	2.67200	-1.45120	.10270	.02300	.05200	-1.60000	.24370	.72020	-.24370	-1.83100
1.200	154.900	3.21700	-1.26030	.33390	1.23400	.03200	-1.63410	.26710	.70100	-.26710	-1.90120
1.200	152.790	3.75990	-1.09410	.59120	.97320	.03430	-1.61430	.23900	.68630	-.23900	-1.83420
1.200	150.600	4.32000	-.80100	.90840	.52690	.03930	-1.60190	.23530	.67490	-.23530	-1.83720
1.200	148.430	4.92720	-.44250	1.1100	.69330	.04200	-1.60450	.23690	.66200	-.23690	-1.87190
1.200	146.130	5.59910	-1.54320	.09750	-.03460	.07400	-1.55220	.19360	.74030	-.19360	-1.74590
GRADIENT		-.20611	-.01691	-.03045	-.03459	-.00044	.00300	-.00333	.00630	-.00333	.00712

RUN NO. 355/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CWM	CLWM	CYM	CYWM	CBL	CA	CAB	XCP/L	CPBI	CAF
1.956	169.390	.71990	-.63730	-.09470	-.10230	.01690	-1.71500	.09370	.76330	-.09370	-1.87930
1.956	167.430	.97700	-.61200	-.11830	-.25720	.02460	-1.69450	.10650	.73000	-.10650	-1.80100
1.956	165.390	1.31630	-.49420	-.15090	-.33710	.02760	-1.69540	.12090	.69900	-.12090	-1.81640
1.956	163.280	1.70270	-.22320	-.18730	-.37310	.02860	-1.69120	.13950	.66810	-.13950	-1.83070
1.956	161.220	2.10770	-.60340	-.12990	-.13900	.02490	-1.69480	.14540	.65170	-.14540	-1.84020
1.956	159.110	2.53700	-.30090	-.02530	.22770	.02730	-1.70480	.16500	.63650	-.16500	-1.86990
1.956	157.010	3.01640	.57810	-.02620	.36000	.00150	-1.72400	.18420	.62720	-.18420	-1.90500
1.956	154.910	3.47960	.61400	-.00640	.30070	-.01140	-1.73590	.18700	.62100	-.18700	-1.92290
1.956	152.800	3.94300	1.17670	.04660	.45170	-.00560	-1.72170	.19140	.61370	-.19140	-1.91320
1.956	150.720	4.40530	1.57200	.07600	.59020	-.01730	-1.71090	.19060	.60690	-.19060	-1.90130
1.956	148.720	4.94740	1.66490	.05600	.41200	-.02200	-1.71020	.16890	.60330	-.16890	-1.87920
1.956	146.140	5.59050	.36930	-.00960	.25150	.02470	-1.68920	.16690	.63310	-.16690	-1.83020
GRADIENT		-.20732	-.12667	-.01142	-.04542	.00240	-.00104	-.00462	.00728	-.00462	.00586

MWFC 907(7AA) TITAN III C DRM (MRETP)

(8097119) (23 APR 74)

REFERENCE DATA

0007 = .0300 IN ZMRP = 4.0330 IN.
 0008 = .0000 IN. ZMRP = .0000 IN.
 0009 = .0000 IN. ZMRP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 FWI = 45.000

RUN NO. 331/ 0 RM/L = 0.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
3.400	109.530	.50000	-.14440	-.00000	-.02100	-.00010	-1.60000	.05550	.60300	-.05550	-1.74540
3.400	107.020	.79070	.00910	-.00100	-.03440	.01930	-1.60950	.05970	.65000	-.05970	-1.74020
3.400	105.030	1.04300	.18200	-.03000	-.00250	.01100	-1.60470	.06110	.62000	-.06110	-1.74590
3.400	103.500	1.20440	.37050	-.03610	-.00370	.01900	-1.67590	.06400	.61300	-.06400	-1.73900
3.400	101.520	1.37000	.60120	-.02010	-.11020	.01310	-1.67200	.06740	.60330	-.06740	-1.74000
3.400	100.000	1.50900	.84490	-.01750	-.10070	.01410	-1.67240	.06840	.59550	-.06840	-1.74000
3.400	107.010	2.20720	1.05000	-.01200	-.19500	.00470	-1.66900	.05900	.59240	-.05900	-1.72000
3.400	105.310	2.04950	1.22000	-.01410	-.21320	.00640	-1.66950	.04030	.59270	-.04030	-1.71700
3.400	103.200	3.03220	1.44120	-.00770	-.10000	.01300	-1.66460	.03240	.59130	-.03240	-1.69710
3.400	101.200	3.40210	1.59100	-.00700	-.15020	.00300	-1.67090	.01020	.59230	-.01020	-1.68910
3.400	149.290	3.70410	1.70410	-.01090	-.14920	.01460	-1.66240	.00610	.59210	-.00610	-1.68030
3.400	159.470	1.91090	.77500	-.00970	-.17060	.00770	-1.66900	.06770	.60010	-.06770	-1.73730
GRADIENT		-.19900	-.09004	-.00426	-.01090	.00007	-.00120	.00241	.00376	-.00241	-.00360

RUN NO. 330/ 0 RM/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMM	CLMM	CYN	CYMM	CBL	CA	CAB	XCP/L	CPB1	CAF
4.939	169.000	.41820	-.16530	-.00300	.04730	.03510	-1.60040	.01950	.70740	-.01950	-1.69590
4.939	167.000	.56170	-.04900	-.00900	.06100	.02320	-1.60060	.01770	.66250	-.01770	-1.69040
4.939	165.740	.70100	.11720	-.00200	.06700	.04040	-1.60010	.01090	.63200	-.01090	-1.69000
4.939	163.710	.90290	.30200	-.04200	.00000	.03690	-1.66400	.02020	.60530	-.02020	-1.69310
4.939	161.070	1.27730	.60530	-.04300	.00000	.05200	-1.67910	.02020	.59550	-.02020	-1.69930
4.939	159.040	1.61000	.90700	-.04900	.12000	.04010	-1.67030	.02050	.57500	-.02050	-1.69000
4.939	157.010	1.95000	1.17400	-.00350	.11970	.03440	-1.60000	.01900	.57500	-.01900	-1.69900
4.939	155.950	2.33400	1.33000	-.03000	.17790	.03440	-1.69240	.01320	.57000	-.01320	-1.70570
4.939	153.520	2.69950	1.40010	-.05320	.10070	.10050	-1.67920	.00260	.59550	-.00260	-1.60100
4.939	151.500	3.07320	1.59950	-.03940	.10050	.02400	-1.67600	-.01090	.59360	.01090	-1.60990
4.939	149.010	3.50150	1.70900	-.02470	.14090	.05200	-1.69000	-.02300	.59000	.02300	-1.67990
4.939	139.050	1.70490	.90170	-.04900	.14310	.01300	-1.69000	.01340	.57000	-.01340	-1.70110
GRADIENT		-.19023	-.10202	-.00291	-.00716	-.00127	.00053	.00167	.00500	-.00167	-.00113



NSFC 507 (744) TITAN III C SRK (MRETP)

(R07120) (23 APR 74)

REFERENCE DATA

REF = .6500 IN XIRP = 4.0330 IN.
 LREF = .9000 IN. YIRP = .0900 IN.
 RREF = .9000 IN. ZIRP = .0500 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 356/ 0 RM/L = 7.09 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYWH	CSL	CA	CAS	XCP/L	CPB1	CAP
1.959	189.900	-.76480	-.01670	.04330	-.17110	.04430	-1.92260	.07200	.70660	-.07250	-1.99470
1.959	187.900	-.90030	.73200	-.05930	-.12940	.04340	-1.07360	.02900	.01680	-.04500	-1.92370
1.959	183.920	-.30070	-.59490	.03070	-.07420	.02930	-1.03100	.04050	.84970	-.04070	-1.07170
1.959	183.900	-.24270	-.44750	.04130	-.05960	.02110	-1.01350	.03060	.00790	-.03080	-1.54410
1.959	181.000	-.09900	-.25600	.03550	-.02870	.01490	-1.77190	.02270	.87830	-.02270	-1.79470
1.959	179.020	.00280	-.05910	.02920	-.00760	.01420	-1.73770	.03030	-1.97470	-.03050	-1.76030
1.959	177.770	.11940	-.17800	-.00990	-.00070	.01060	-1.70220	.02710	.84100	-.02710	-1.72940
1.959	175.740	.24310	-.36040	-.05020	-.03260	.01570	-1.66890	.03760	.03760	-.03080	-1.70760
1.959	173.710	.37620	-.53350	-.09210	-.08970	.01760	-1.66620	.03600	.03000	-.05960	-1.72500
1.959	171.650	.53040	-.61410	-.11030	-.14250	.02070	-1.63720	.07420	.79000	-.07420	-1.74530
1.959	169.770	.71060	-.63600	-.10290	-.19090	.04310	-1.53440	.09800	.76390	-.09800	-1.78040
1.959	179.030	.01830	-.01900	.00460	-.00520	.01310	-1.70070	.03290	.77820	-.03290	-1.73360
GRADIENT		-.06030	.08124	.00932	-.00074	.00085	-.01237	-.05124	.00217	.00124	-.01182

RUN NO. 326/ 0 RM/L = 6.15 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	CMW	CLMW	CYN	CYWH	CSL	CA	CAS	XCP/L	CPB1	CAP
3.400	189.940	-.63870	-.23220	-.00840	-.00020	.02600	-1.80000	.05170	.89000	-.05170	-1.93170
3.400	187.290	-.44810	.29810	-.01490	-.00410	.03770	-1.84020	.04980	.73310	-.04980	-1.89410
3.400	185.000	-.29610	-.23070	-.02060	.01310	.05150	-1.81010	.03780	.75000	-.03780	-1.84790
3.400	183.050	-.18980	.15130	-.01240	.02040	.00980	-1.77100	.03170	.76640	-.03170	-1.80270
3.400	181.030	-.06470	-.14820	-.01160	.01490	.02240	-1.74300	.02790	.84130	-.02790	-1.77170
3.400	179.010	.02450	.00030	-.01600	.03190	.01420	-1.71990	.03050	.84960	-.03050	-1.73030
3.400	177.290	.09950	-.07220	-.05390	.02680	.01340	-1.69000	.03130	.74340	-.03130	-1.73320
3.400	175.730	.16250	-.13400	-.01490	.02750	-.00360	-1.69360	.03090	.76250	-.03090	-1.73260
3.400	173.730	.31430	-.21230	-.06250	-.00490	.00870	-1.69220	.04390	.73700	-.04390	-1.73810
3.400	171.730	.42930	-.20860	-.06110	-.02430	-.00620	-1.68940	.05020	.71300	-.05020	-1.73970
3.400	169.900	.55490	-.13130	-.06740	-.03590	.00060	-1.68690	.05330	.68370	-.05330	-1.75950
3.400	179.030	.01170	-.09820	-.02230	.04120	-.00860	-1.72090	.03000	.71900	-.03000	-1.75900
GRADIENT		-.05309	.02810	.00313	.00132	.00201	-.00974	-.00029	.00196	.00029	-.00944

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

NSFC 907 (744) TWT: 907 III C 908 (INS:10)

(007100) (23 APR 74)

REFERENCE DATA

REF = .0300 30. IN ZIMP = 4.0330 IN.
 LREF = .0000 IN. ZIMP = .0000 IN.
 REF = .0000 IN. ZIMP = .0000 IN.
 SCALE = .0074

PARAMETRIC DATA

BETA = .000 PHI = 45.000

RUN NO. 309/ 0 RM/L = 5.04 GRADIENT INTERVAL = -5.00/ 5.00

WACR	ALPHA	CRM	CLRM	CTM	CVM	CSL	CA	CAB	SCP/L	CPB	CAF
4.939	189.840	-.37850	.20380	-.01800	.00360	-.01540	-1.00990	.01370	.09070	-.01370	-1.07300
4.939	187.930	-.40300	.22050	-.04400	-.01390	.02350	-1.70140	.01270	.72260	-.01270	-1.00410
4.939	185.900	-.26840	.22450	-.04490	.04090	-.00990	-1.70920	.01170	.75000	-.01170	-1.70000
4.939	183.000	-.23250	.18250	-.04370	.10020	-.01770	-1.74160	.01040	.74000	-.01040	-1.75210
4.939	181.050	-.14840	.11210	-.04290	.04030	-.02300	-1.72090	.00970	.74040	-.00970	-1.73000
4.939	179.010	-.00300	-.03110	-.05490	.06910	-.02070	-1.70260	.01090	-.44210	-.01090	-1.71300
4.939	177.010	.05350	-.04310	-.03990	.00360	-.02320	-1.00170	.01070	.00070	-.01070	-1.00200
4.939	175.700	.13810	-.14490	-.06450	.04810	-.02370	-1.00190	.01140	.78430	-.01140	-1.09340
4.939	173.720	.19300	-.20040	-.06540	.04000	-.01310	-1.00100	.00990	.78070	-.00990	-1.07170
4.939	171.750	.30700	-.21210	-.07950	.03300	-.01330	-1.07260	.01190	.79070	-.01190	-1.00450
4.939	169.020	.41900	-.09140	-.00140	.09670	.00320	-1.00350	.01550	.07910	-.01550	-1.00100
4.939	179.040	-.00230	.00100	-.04190	.10000	-.03900	-1.71450	.01070	.75170	-.01070	-1.72320
GRADIENT		-.04594	.02406	.00231	.00070	-.00102	-.00070	-.00001	-.00099	.00001	-.00000