RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMINE SEPARATION CHARACTERISTICS FOR THE ORBITER/747 USING A 0.0125-SCALE MODEL (48-0 AX1318I-1 747) IN THE AMES RESEARCH CENTER 14-FOOT WIND TUNNEL (CA23B)

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DETERMINE SEPARATION CHARACTERISTICS FOR THE

ORBITER/747 USING A 0.0125-SCALE MODEL (48-0

AX1318I-1 747) IN THE AMES RESEARCH CENTER

14-FOOT WIND TUNNEL (CA23B)

by

V. Esparza
Rockwell International Space Division

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: ARC 14-120
    NASA Series Number: CA23B
    Model Number: 48-0 Orbiter/AX1318I-1 747
    Test Dates: June 23 through July 22, 1975
    Occupancy Hours: 180

FACILITY COORDINATOR:

    William Davis
    Ames Research Center
    Mail Stop 227-5
    Moffett Field, Calif. 94035

    Phone: (415) 965-5850

PROJECT ENGINEERS:

V. Esparza	J. Brownson	D. Pena
Rockwell International	Ames Research Center	ARO, Inc.
Space Division	Mail Stop 227-5	Ames Research Center
12214 Lakewood Blvd.	Moffett Field, Calif.	Mail Stop 226-3
Mail Code AC07	94035	Moffett Field, Calif.
Downey, Calif. 90241		94035
Phone: (213) 922-4994	Phone: (415) 965-6262	Phone: (415) 965-5152

AERODYNAMICS ANALYSIS ENGINEERS:

W. L. Osborn	C. R. Mullen	L. Perez
Rockwell International	The Boeing Company	D. Homan
Space Division	Orgn. B-8241 OL-21	NASA/JSC
12214 Lakewood Blvd.	Seattle, Washington	Bldg. 45, EX33
Mail Code AC07	98007	Houston, Texas 77058
Downey, Calif. 90241		
Phone: (213) 922-5049	Phone: (206) 342-1112	Phone: (713) 483-4701

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. W. Hersey
              Operations--R. H. Lindahl

Reviewed by: D. E. Poucher

Approved: _J. L. Glynn_, Manager   Concurrence: _N. D. Kemp_, Manager
          Data Operations   Data Management Services

RESULTS OF AN EXPERIMENTAL INVESTIGATION TO

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ABSTRACT

This report documents aerodynamic separation data obtained from a wind tunnel test of an 0.0125-scale SSV Orbiter model of a VC70-000002 Configuration and a 0.0125-scale 747 model built by The Boeing Company.

Separation data were obtained at a Mach number of 0.6 and three incidence angles (i_o) of $4°$, $6°$, and $8°$. The orbiter angle of attack was varied from 0 to 14 degrees.

Longitudinal, lateral and normal separation increments were obtained for fixed 747 angles of attack of $0°$, $2°$, and $4°$ while varying orbiter angle of attack. Control surface settings on the 747 carrier included rudder deflections of $0°$ and $10°$ and horizontal stabilizer deflections of $-1°$ and $+5°$.

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NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(P_i - P_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\ \rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHAC	747 angle of attack, degrees
α_O	ALPHAO	Orbiter angle of attack, degrees
β	BETA BETAC	747 angle of sideslip, degrees
β_O	BETAO	Orbiter angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHIO PHIC	Orbiter angle of roll, degrees 747 angle of roll, degrees
i_O	IORB	Orbiter incidence relative to 747 FRL, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

SYMBOL	PLOT SYMBOL	DEFINITION
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft

NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
S	SREF	wing area or reference area; m^2, ft^2
MRC	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b		base
l		local
s		static conditions
t		total conditions
∞		free stream

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\dfrac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\dfrac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\dfrac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\dfrac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\dfrac{\text{pitching moment}}{qS\ell_{REF}}$

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NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_n	CLN	yawing-moment coefficient; $\dfrac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\dfrac{\text{rolling moment}}{qSb}$

Stability-Axis System

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

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
ΔC_L	DCL	incremental lift coefficient
ΔC_D	DCD	incremental drag coefficient
ΔC_m	DCLM	incremental pitching-moment coefficient
ΔC_Y	DCY	incremental side-force coefficient
ΔC_n	DCYN	incremental yawing-moment coefficient
ΔC_ℓ	DCBL	incremental rolling-moment coefficient
	XZCP	longitudinal center of pressure in normal force plane
	XYCP	lateral center of pressure in side force plane
δ_r	RUDDER	747 rudder surface deflection angle, positive deflection trailing edge to the left, degrees
δ_e	ELEVON	Orbiter elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_λ	STAB	747 stabilizer surface deflection angle, positive deflection trailing edge down, degrees

ORBITER SYMBOL	PLOT SYMBOL	DEFINITION
$C_{P_{co}}$	CPC	Orbiter balance cavity pressure coefficient
$C_{P_{B1}}$	CPB1	Orbiter tail-cone-off base pressure coefficient
$C_{P_{B2}}$	CPB2	Orbiter tail-cone-off base pressure coefficient

ORBITER SYMBOL	PLOT SYMBOL	DEFINITION
$C_{P_{B3}}$	CPB3	Orbiter tail-cone-off pressure coefficient
$C_{P_{BE}}$	CPE3	Dummy strut pressure coefficient
$C_{P_{S1}}$	CPS1	Pressure coefficient on L.H. side of Strut S_1
$C_{P_{S2}}$	CPS2	Pressure coefficient on R.H. side of Strut S_1

747 SYMBOL

$C_{P_{CC}}$	CPCC	747 sting cavity pressure coefficient
$C_{P_{SB1}}$	CPSB1	747 sting base exit pressure coefficient
$C_{P_{SB2}}$	CPSB2	747 sting base exit pressure coefficient

SEPARATION PARAMETERS	PLOT SYMBOL	
ΔX	DX	Longitudinal displacement, ft.
ΔY	DY	Lateral displacement, ft.
ΔZ	DZ	Vertical displacement, ft.

REMARKS

The nominal orbiter elevon deflections tested were 0° and +5°. The actual measured elevon deflections were as follows:

NOMINAL   MEASURED

	δ_e Left		δ_e Right	
	Outboard	Inboard	Outboard	Inboard
5°	4°59'	5°10'	4°55'	4°53'

The zero elevon deflection was not measured since it faired into the contour of the VC70-000002 orbiter vehicle lines.

The 747 carrier nominal horizontal stabilizer settings used in the test were $\delta_H = -1°$ and $\delta_H = 5°$. The actual measured deflections were $\delta_H = -53'$ and $\delta_H = +4°48'$, respectively.

CONFIGURATIONS INVESTIGATED

The Orbiter model was a 0.0125 scale representation of the Rockwell International Space Shuttle Vehicle built to Rockwell lines VC70-00000?. The basic orbiter model is of the blended wing-body design utilizing a double delta wing ($75°/45°$), full span elevons with deflection capability, a centerline vertical tail with rudder deflection capability, a canopy, a body flap and an orbital maneuvering system (OMS) mounted on the aft fuselage sidewalls.

A tail cone fairing used to cover the MPS nozzles and OMS nozzles was tested for a limited number of runs.

The .0125 scale model of the Rockwell International Space Shuttle Vehicle is constructed primarily of 7075-T6 aluminum. The orbiter wing panels are made from 2024-T-851 aluminum while the elevon brackets are made from ARMCO 17-4 PH CRES.

Model Nomenclature

$$O_1 = B_{64} \, C_{14} \, F_{14} \, E_{44} \, M_{18} \, N_{94} \, N_{92} \, R_{18} \, V_{23} \, W_{116}$$

$$O_2 = B_{64} \, C_{14} \, F_{14} \, E_{44} \, M_{18} \, N_{94} \, N_{92} \qquad\quad W_{116}$$

$$O_3 = B_{64} \, C_{14} \, F_{14} \, E_{44} \, M_{18} \qquad\quad R_{18} \, V_{23} \, W_{116} \, TC_4$$

$$O_4 = B_{64} \, C_{14} \, F_{14} \, E_{44} \, M_{18} \qquad\quad N_{92} \, R_{18} \, V_{23} \, W_{116}$$

Component	Description
B_{64}	Orbiter fuselage per Rockwell lines VC70-000002, Model Drawing SS-A01377

CONFIGURATIONS INVESTIGATED - (Continued)

Component	Description
C_{14}	Orbiter canopy per Rockwell lines VC70-000002, Model Drawing SS-A01377
E_{44}	Orbiter full span, unswept hingeline, 6-inch gapped elevons per Rockwell lines VC70-000002, Model Drawing SS-A01377
F_{14}	Orbiter body flap per Rockwell lines VC70-000002, Model Drawing SS-A01377
M_{18}	Orbiter OMS/RCS pods per Rockwell lines VC70-000002, Model Drawing SS-A01377
N_{94}	Orbiter main engine nozzles per Rockwell lines VC70-000002, Model Drawing SS-A01377
N_{92}	Orbiter OMS engine nozzles per Rockwell lines VC70-000002, Model Drawing SS-A01377
R_{18}	Orbiter rudder per Rockwell lines VC70-000002, Model Drawing SS-A01377
V_{23}	Orbiter vertical tail per Rockwell lines VC70-000002, Model Drawing SS-A01377
W_{116}	Orbiter double delta wing per Rockwell lines VC70-000002, Model Drawing SS-A01377
TC_4	Orbiter tail cone fairing which covers the MPS nozzles and the OMS nozzles and base.

The attach hardware utilized in conjunction with separation testing consisted of several configurations. The faired aft attach hardware (AT_{99}) was used throughout the duration of the separation test. Incidence angles of $4°$, $6°$, and $8°$ were tested utilizing the faired forward attach hardware AT_{96}, AT_{97}, and AT_{98}.

AT_{97} was used for $i_o = 6°$, and $8°$.

CONFIGURATIONS INVESTIGATED - (Continued)

The 0.0125 scale 747 carrier model, fabricated by The Boeing Company, utilized 200 sq. ft. stabilizer tip fins, flaps at 0 degrees and standard in-flight speed brakes extended. The horizontal tail was capable of deflecting +35° to -11° in two degree increments (FRP).

The following nomenclature was used to designate model components for The Boeing Company 0.0125-scale 747 Carrier Model:

Component	Description
$B_{27.8}$	Fuselage
$W_{44.1}$	Wing
$V_{9.1}$	Basic Vertical Tail
H_{15}	Horizontal Tail
$H_{15.6}$	Horizontal Tail with Vertical Fins
M_{25}	Inboard Nacelle struts
M_{26}	Outboard Nacelle struts
N_{57}	Inboard Nacelles
N_{58}	Outboard Nacelles
S_{1-12}	Spoiler panels
T_{14}	Flap Track Fairing
S_1	Orbiter support blade strut, upper entry position

The configurations investigated·utilizing the components previously described were as follows:

CONFIGURATIONS INVESTIGATED - (Concluded)

Configuration	Orbiter Incidence (i_o)
747/1 AT_{96}	$4°$
747/1 AT_{97}	$6°$
747/1 AT_{98}	$8°$
747/1 AT_{96} O_2 S_1	$4°$
747/1 AT_{97} O_2 S_1	$6°$
747/1 AT_{98} O_2 S_1	$8°$
747/1 AT_{96} O_3 S_1	$4°$
747/1 AT_{97} O_3 S_1	$6°$
747/1 AT_{98} O_3 S_1	$8°$
O_2 S_1	--
O_3 S_1	--

INSTRUMENTATION

The orbiter was mounted on the NASA/Ames 1.0 inch Task MK XIV internal force balance and the 747 Carrier was mounted on the NASA/Ames 1.5 inch MK II Internal Force balance.

Pressure instrumentation in the orbiter consisted of a sting cavity pressure tap (P_{co}) and a pressure tap (P_{S1}, P_{S2}) on each side of strut S_1. When the tail cone (TC_4) was removed, three (3) base pressures were measured- P_{B1}, P_{B2}, and P_{B3}. See figures 2g and 2i.

Pressure instrumentation in the 747 carrier consisted of sting cavity pressure tap (P_{cc}) and two static pressure taps (P_{SB1}, P_{SB2}). These tap locations are shown in figure 2i.

TEST FACILITY DESCRIPTION

The Ames 14-Foot Transonic Wind Tunnel was created by extensive modification of the former Ames 16-Foot High Speed Wind Tunnel. It has an adjustable, flexible-wall nozzle and the test section is slotted on all four sides to permit transonic testing. The air circuit is closed except for the air exchanger in a low-speed section of the circuit, which is controlled to maintain the air temperature within suitable limits.

The air is driven by a three-stage, axial-flow compressor powered by three electric motors mounted in tandem outside the wind tunnel. The drive system is rated 110,000 horsepower continuously or 132,000 horsepower for one hour. The speed of the motors is continuously variable over the operating range.

Performance:

Mach number	0.6 to 1.2, continuously variable
Pressure, stagnation, atm	1.0
Reynolds number, per ft	2.8×10^6 to 4.2×10^6
Temperature, stagnation	Controllable over limited range by throttling the air exchanger. Generally about 640° R to avoid condensation of moisture in the test section

Dimensions:

Test section height, ft	13.50
Test section width, ft	13.71 at upstream end 13.92 at downstream end
Test section length, ft	33.75

DATA REDUCTION

Model force and moment data were reduced to coefficient form in the body and stability axes systems. Coefficient data were computed separately for each vehicle using its own reference dimensions. Moment data for each vehicle is reduced about its own reference center of gravity.

Relative separation angles and displacements were computed for the orbiter with respect to the 747 carrier. These values are presented in the 747 body axis system and displacement will represent the movement of the orbiter aft attachment point from its base position. The orbiter base position is defined as the orbiter in the mated configuration.

All model positions and attitude data are corrected for support hardware deflections.

Reference Dimensions and Constants

747 Symbol	Definition	Model Scale	Full Scale
S_c	Wing reference area, ft^2	0.859	5500
b_c	Wing span, in.	29.351	2348.04
$\bar{c}_c$	Wing, MAC, in.	4.097	327.78
$MRCX_c$	Moment Ref. Center 747 M.S.	16.749	1339.90
$MRCZ_c$	Moment Ref. Center 747 W.L.	2.385	190.75
$BMCZ_c$	Balance Moment Center 747 M.S.	16.608	1328.64
$BMCZ_c$	Balance Moment Center 747 W.L.	2.896	231.68

Orbiter Symbol	Definition	Model Scale	Full Scale
S_O	Wing reference area, ft^2	0.420	2690
b_O	Wing span, in	11.709	936.68
$\bar{c}_O$	Wing MAC, in.	5.935	474.81
$MRCX_O$	Moment Ref. Center Orbiter M.S.	13.862	1109
$MRCZ_O$	Moment Ref. Center Orbiter W.L.	4.687	375
$BMCX_O$	Balance Moment Center Orb. M.S.	13.305	1064
$BMCZ_O$	Balance Moment Center Orb. W.L.	5.377	430

Incremental force and moment coefficients were calculated for the orbiter data as follows:

$$\Delta C_{ORB}^{(747)} = C_{ORB}^{(747)} - C_{ORB}(ISOL)$$

where:

$\Delta C_{ORB}^{(747)}$ = Proximity increment on orbiter coefficients

$C_{ORB}^{(747)}$ = Coefficient of orbiter in presence of carrier

$C_{ORB}(ISOL)$ = Isolated orbiter coefficient

Incremental force and moment coefficients were also calculated for the carrier as follows:

$$\Delta C_{747}^{(ORB)} = C_{747}^{(ORB)} - C_{747}(ISOL)$$

where:

$\Delta C_{747}^{(ORB)}$ = Proximity increment on carrier coefficients

DATA REDUCTION (Concluded)

$C_{747}^{(ORB)}$ = Coefficient of carrier in presence of orbiter

$C_{747}^{(ISOL)}$ = Isolated carrier coefficient

Refer to Table VI for a detailed summary.

REFERENCES

<u>Reports and Internal Letters</u>

IL, SAS/WTO/74-172, Addendum #12, "Sting Design and Fabrication Effort Required for Support of Test CA23 Using Model 48-0/747."

IL, SAS/WTO/74-172, Addendum #13, "Completion of CA23 Sting Hardware Fabrication," dated February 4, 1975.

IL, SAS/WTO/74-172, Addendum #14, "Orbiter/747 Attach Hardware for CA23," dated February 18, 1975.

IL, SAS/WTO/74-172, Addendum #15, "Model Requirements for 0.0125-Scale 48-0/747 Models to Support Tests CA23 and AA2."

IL, SAS/WTO/74-172, Addendum #17, "Additional Model 48-0 Requirements," dated March 4, 1975.

IL, SAS/WTO/74-172, Addendum #20, "Model Requirements for 48-0 in Support of Test CA21," dated May 2, 1975.

IL, SAS/WTO/75-101, "Dimensional Verification of Model 48-0 During CA21 MRR and CA23," dated April 2, 1975.

SD75-SH-0290A, "Pretest Information for a Test of an 0.0125 Scale Model 48-0 Orbiter/747 Flight Test Configuration in the ARC 14 Foot Tunnel CA23B", June, 1975.

<u>Drawings</u>

VC70-000002, "Design Geometry - Orbiter," dated June 10, 1974.

SS-A01377, "Orbiter Assembly - #48-0, 0.0125-Scale SSV, Ferry Separation," dated August 9, 1974.

SS-A01559, Fwd. & Aft Attach Supports 48-0, .0125-Scale SSV Orbiter," dated March 11, 1975.

SS-A01499, "Installation-0.0125-Scale SSV Orb/747, Carrier Ferry Sep., Ames 14-Ft WT (#48-0)," dated January 9, 1975.

W-1132SA, "Sting Assy - 48-0 SSV, Carrier, Ferry/Separation," dated August 9, 1974.

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REFERENCES (Concluded)

W-1133SA, "Sting Assy - Orbiter Ferry Separation, #48-0," dated
January 13, 1975.

W-1142-SA, "Sting and Sting Adapter-0.0125-Scale SSV Orb., Carrier,
Ferry/Separation #48-0," dated January 29, 1975.

W-1048-S, "Sting - (SSV-Delta and Str. Wing), Ames 6X6 SSWT," dated
May 6, 1975.

W-1135-A, "Adapter Assy - #48-0 Orbiter/Carrier, Mated," dated
August 17, 1974.

The Boeing Company - 747 Carrier

747-MD-461, "General Arrangement - 747 Space Shuttle Orbiter Carrier
Aircraft (Piggyback Configuration)," dated July 15, 1974.

747-MD-576, "Structural Arrangement - Orbiter Aft Support, 747 MOD,"
dated August 1, 1974.

AX 13181-1, "747 Model Drawings 0.0125 Scale".

TABLE I

TEST : CA23B		DATE : 11/18/75

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per ft X 10^6)	DYNAMIC PRESSURE (pounds/sq.ft)	STAGNATION TEMPERATURE (degrees Fahrenheit)
.6	3.6	417	92
.5	3.1	315	70
.3	2	126	71

BALANCE UTILIZED: **NASA/ARC 1.0 inch Task MK XIV**

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	800 lb.		
SF	400 lb.		
AF	100 lb.		
PM			
RM	250 in.-lb.		
YM			

COMMENTS: **This balance was used to obtain Orbiter separation data.**

BALANCE UTILIZED: **NASA/ARC 1.5 inch MK II**

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1000 lb.		
SF	500 lb.		
AF	100 lb.		
PM			
RM	800 in.-lb.		
YM			

COMMENTS: **This balance was used to obtain 747 Carrier Separation data.**

TABLE II.

TEST: CA23 B(ARC 14-120)   DATE: 10/11/75 REVISED

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST RUN NUMBERS — ΔZ

DATA SET IDENTIFIER	CONFIGURATION	α_c	β_c	α_{s1} (747)	Se	Lo/ΔX	Δz	M	2	3.5	7.5	10	15	30	45	50	60
RNH004	747/1 AT1	⚠A	0	-%	—	—	130	0.6	41 (Δz=130)								
05		⚠A	0	5%	—	—	130	0.6	51 (Δz=130)								
08	747/1 AT1 ΦzS1	A	0	-%	5	6	⑦	%	81		82	83	84	85	86	87	
09				-%		8	⑥				91	92	93	94	95	96	
10				5%		8	⑥				101	102	103	104	105	106	
11				-%		4	⑥		111		112	113	114	115	116		
12				-%		6	③		121		122	123					
13				5%		6	⑦		131		132	133	134	135	136	137	
14		B				6	1% → ⑦		141		142	143	144	145	146	147	
15						8	1% ⑥				151	152	153	154	155	156	
16						6	2% ⑦		161		162	163	164	165	166	167	
17						8	2% ⑥				171	172	173	174	175	176	
18						6	0/10 ⑦		181		182	183	184	185	186	187	
19		Y				8	0/10 ⑥				191	192	193	194	195	196	
20		A		Y	0	4	% ⑨		201		202	203	204	205	206		
21				-%		4	⑥		211		212	213	214	215	216		
22				5%		8	⑥				221	222	223	224	225	226	
23				5%		6	⑦		231		232	233	234	235	236	237	

COEFFICIENT SCHEDULES ARE PRESENTED IN TABLE V (PAGE 58)

α or β COEFFICIENT:
A = α_c = 0, 2, 4°
B = α_c = 2, 4°
⚠2 = α_c = -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8°

SCHEDULES:
9 = Δz = 2, 20, 40°
⚠ = ΔX = 0, 5, 10, 15, 20'
Δ = α_c = 0, 4, 6, 8, 10, 12, 14

NOTE: AT1 = AT 16 OR AT97 OR AT4X ...

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TABLE II. -- Continued

TEST: CA23 B (ARC 14-120) DATE: 10/11/75 REVISED

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α_c	SCHD. β_c	747 δ	δ_c	L_0	Δ%/δγ	ΔΞ	M	\(\Delta\Xi\) 2	3.5	7.5	10	15	30	45	50	50
RNH024	747/1 AT1 φ₂ S₁	A	0	-1/0	0	6	%	⑦	0.6		241	242	243	244	245	246	247	
25	↓	A	0	-1/0	0	8	%	⑥				257	252	253	254	255	256	
27	747/1 AT1 φ₃ S₁	A		5/0		8	%	⑥				261	262	263	264	265	266	
28		B				6	1%	⑦			281	282	283	284	285	286	287	
29		B				8	1%	⑥				291	292	293	294	295	296	
30		B				8	2%	⑥				301	302	303	304	305	306	
31		B				6	2%	⑥				311	312	313	314	315	316	
32		B				6	%	⑦			321	322	323	324	325	326	327	
33		B				8	%	⑥				331	332	333	334	335	336	
34		A				6	%	⑨		341	342	343	344	345	346	347	348	349
35		A		5/10		4		⑥			351	352	353	354	355	356		
36		B		5/10		6		⑨		361	362	363	364	365	366	367	368	369
37		A		-1/0	0	6		⑨		371	372	373	374	375	376	377	378	379
38		A		5%	5	6		⑨		381	382	383	384	385	386		388	389
39	747/1 AT1 φ₂ S₁	B		5/10		6		7			391	392	393	394	395	396	397	
40		A		5/0		4		⑥			401	402	403	404	405	406		
41		B		5/0		4		⑥	0.5		411	412	413	414	415	416		
42	↓	B		5/0		4		⑥	0.3		421	422	423	424	425	426		

α OR β SCHEDULES

COEFFICENTS

NO α = 4°   (VARIED)   CLASS 2

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TABLE II. – Concluded.

TEST: CA23 B(ARC (4-120)   DATA SET RUN NUMBER COLLATION SUMMARY   DATE: 10/11/75 REVISED

DATA SET IDENTIFIER	CONFIGURATION	SCHD. 747 ORB. PARAMETER/VALUES							ΔZ						ΔX				
		αo/βc	βc	Se	Lo	Δαγ	ΔZ	M	0.6	2	20	40	60	0	5	10	15	20	
RNHO 43	φ2 S1	⚠	0	5/-	5	-%	⚠	0.6		431	432	433							
44	φ3 S1				5		60						441						
45	φ3 S1	↓		%/-	0		⚠			451	452	453							
46	φ2 S1				0	↓	40					461							
47	φ2 S1	↓			0	⚠/0	50	ΔZ=50						471	472	473	474	475	
48	φ2 S1	↓		↓	0	↓	3	↓	ΔZ=3					481	482	483	484	485	

TABLE III (MODEL DIMENSIONAL DATA)

a. Orbiter Model

MODEL COMPONENT : ___BODY – CML – B_{61}_____

GENERAL DESCRIPTION : ___The body is an elongated structure containing___

the Crew Module and Cargo Bay. Same as IML plus 1" TPS._____

_____

MODEL SCALE: 0.0125_____

DRAWING NUMBER : ___VC70-000002, SS-A01377_____

DIMENSIONS :

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

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : __CANOPY (OUTER MOLD LINE) - C.___

GENERAL DESCRIPTION : _The canopy is that part of the forward fuselage_

which covers the Crew Module. One inch TPS thickness on the canopy.

_Configuration 140C._____

MODEL SCALE: 0.0125_____

DRAWING NUMBER : __VC70-000002, SS-A01377_____

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

WINDSHIELD PLANES:

$$.7012\ X_0 - .2552\ Y_0 - .6656\ Z_0 - 6.1789 = 0$$
$$.5710\ X_0 - .5641\ Y_0 - .5965\ Z_0 + 32.7354 = 0$$
$$.2636\ X_0 - .7564\ Y_0 - .5965\ Z_0 + 189.4099 = 0$$

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : __ELEVON - E$_{44}$__

GENERAL DESCRIPTION __6.0 In. F.S. gaps machined into E$_{24}$ elevon.__
__Flipper doors, centerbody pieces, and tipseals are not simulated. (Data__
__are for one side.)__

__MODEL SCALE: 0.0125__

DRAWING NUMBER __Not available.__

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Area – Ft^2	210.00	0.033
Span (equivalent), In.,	349.2	4.365
Inb'd equivalent chord , In.	118.0	1.475
Outb'd equivalent chord , In.	55.19	0.690
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	– 10.056	– 10.056
Hingeline	0.00	0.00
Area Moment (Nxxxxxxxxxxxxxx) ,Ft^3 (Product of area & $\bar{c}$)	1587.25	0.003
Mean Aerodynamic Chord, In.	90.7	1.134

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TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: _____ BODY FLAP - F_{14} _____

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

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002

DIMENSIONS:

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

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : _____ OMS PODS (OML) – M$_{18}$ _____

GENERAL DESCRIPTION : _The OMS pods are nacelles housing the maneuvering_

engines and are located on the fuselage on either side of the vertical

tail. Same as IML plus 1/2" TPS.

MODEL SCALE: 0.0125

DRAWING NUMBER : __VC70-000002, VL70-843001__

DIMENSIONS :

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

TABLE III (Cont'd)
a. Orbiter Model

MODEL COMPONENT: MPS NOZZLES - N_{94}

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

MODEL SCALE: 0.0125

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

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	157.00	1.963
Throat to Exit Plane		
Diameter - In.		
Exit	97.914	1.224
Throat		
Inlet		
Area - ft^2		
Exit	52.290	0.008
Throat		
Gimbal Point (Station) - In.		
Upper Nozzle		
X_0	1445.0	18.063
Y_0	0.0	0.0
Z_0	443.0	5.538
Lower Nozzles		
X_0	1468.170	18.352
Y_0	53.00	0.663
Z_0	342.640	4.283
Null Position - Deg.		
Upper Nozzle		
Pitch	16.0	16.0
Yaw	0.0	0.0
Lower Nozzle		
Pitch	10.0	10.0
Yaw	3.5	3.5

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: NOZZLES -- N$_{92}$

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

MODEL SCALE: 0.0125

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

DIMENSIONS:

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

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TABLE III (Cont'd)

a. Orbiter model

MODEL COMPONENT _____ RUDDER – R_{18} _____

GENERAL DESCRIPTION _____ The rudder is a secondary movable airfoil at the

trailing edge of the vertical fin that imparts yaw forces. This dimensional

data was calculated from the OML master dimensions 7-19-74.

MODEL SCALE: 0.0125

DRAWING NUMBER _____

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

TABLE III (Cont'd)
a. Orbiter Model

MODEL COMPONENT: VERTICAL - V$_{23}$ (Outer Mold Lines)

GENERAL DESCRIPTION: The vertical tail is double-wedge shaped and mounted

dorsally on the aft fuselage. These data correspond to configuration 140C.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, master dimensions.

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft^2		
Planform	413.253	0.065
Span (Theo) - In.	315.72	3.947
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	3.356
Tip (Theo) WP	108.47	1.356
MAC	199.81	2.498
Fus. Sta. of .25 MAC	1463.50	18.294
W.P. of .25 MAC	635.52	7.944
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.00	0.0250
Void Area	13.17	0.002
Blanketed Area	0.0	0.0

TABLE III (Cont'd)
a. Orbiter Model

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION:

NOTE: Identical to W₁₁₇ except airfoil thickness. Dihedral angle is along

trailing edge of wing. Geometric twist = 0.

MODEL SCALE: 0.0125

TEST NO. _____ DWG. NO. VL70-000140A, -000200

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA ORIGINAL PAGE IS OF POOR QUALITY		
Area (Theo.) Ft²		
Planform	2690.00	0.420
Span (Theo In.	936.68	11.709
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	- 10.056	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	8.616
Tip, (Theo) B.P.	137.85	1.723
MAC	474.81	5.935
Fus. Sta. of .25 MAC	1136.83	14.210
W.P. of .25 MAC	290.58	3.632
B.L. of .25 MAC	182.13	2.277
EXPOSED DATA		
Area (Theo) Ft²	1751.50	0.274
Span, (Theo) In. BP108	720.68	9.009
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	7.026
Tip 1.00 b/2	137.85	1.723
MAC	392.83	4.910
Fus. Sta. of .25 MAC	1185.98	14.825
W.P. of .25 MAC	294.30	3.679
B.L. of .25 MAC	251.77	3.147
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root b/2 =	0.113	0.113
Tip b/2 =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft²	113.13	0.0177
Leading Edge Intersects Fus M. L. @ Sta	500.0	6.250
Leading Edge Intersects Wing @ Sta	1024.0	

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : ___ORBITER TAILCONE - TC$_F$___

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

MODEL SCALE: 0.0125

DRAWING NUMBER : SS-A01452

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length	435.76	5.447
Max Width	300.80	3.76
Max Depth Height	266.40	3.33
Fineness Ratio		
Area – Ft^2		
Max. Cross–Sectional	462.37	0.0722
Planform	635.803	0.0993
Wetted		
Base		

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE – AT$_{96}$

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

MODEL SCALE: 0.0125

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

DIMENSIONS:

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

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT_{97}

GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, faired struct, $i_0 = 6°$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-654, SS-A0159-3, -11, -35

DIMENSIONS:

		FULL SCALE	MODEL SCALE
i_0, Incidence angle, deg. (Orbiter FRL to 747 FRL)		6.0	6.0
Fairing chord, right and left, In.		31.0	0.388
Fairing t/c		0.226	0.226
Carrier attach points, In.	BSTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach point, In.	X_0	388.15	4.852
	Z_0	283.11	3.539
	Y_0	0.0	0.0
	BSTA	684.88	8.561
	BWL	512.72	6.409

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT_{98}

GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, faired struts, $i_0 = 8°$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-654, SS-A01559-5, -19, -35

DIMENSIONS:

		FULL SCALE	MODEL SCALE
i_0, Incidence angle, deg. (Orbiter FRL to 747 FRL)		8.0	8.0
Fairing chord, right and left, In.		31.0	0.388
Fairing t/c		0.226	0.226
Carrier attach points, In.	BSTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach points, In.	X_0	388.15	4.852
	Z_0	283.11	3.539
	Y_0	0.0	0.0
	BSTA	689.4	8.617
	BWL	544.72	6.809

TABLE III (Cont'd)

b.. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT_{99}

GENERAL DESCRIPTION: Aft attach structure between orbiter and carrier, same as AT_{95} with a single fairing covering the main strut and drag strut on each side, and a fairing on the sway brace.

MODEL SCALE: 0.0125

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

DIMENSIONS:

		FULL SCALE	MODEL SCALE
Orbiter attach points, In.	X_0	1317.0	16.462
	Y_0	± 96.51	± 1.206
	Z , BL	267.5	3.344
	BSTA	1607.0	20.087
	BWL	400.0	5.000
Main fairing:			
Root chord, In.		250.0	3.125
T/c of root chord		0.09	0.09
Tip chord, In.		120.0	1.500
T/c of tip chord		0.14	0.14
Sway brace:			
Chord, In.		31.0	0.388
T/c		0.226	0.226

TABLE III (Cont'd)

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

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

MODEL SCALE: 0.0125   MODEL DWG: 13181-1

DRAWING NUMBER : 65013609, 1318-54

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length , In.	2702.0	33.78
Max Width , In.	255.3	3.19
Max Depth		
Fineness Ratio	9.73	9.73
Area – Ft^2		
Max. Cross-Sectional		
Planform		
Wetted	14.093	0.002
Base		

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: WING - $W_{44.1}$

GENERAL DESCRIPTION: Swept 747 wing

MODEL SCALE: 0.0125   MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-46

DIMENSIONS: FULL SCALE   MODEL SCALE

Total Data:

Area (Theo.), Ft^2

	FULL SCALE	MODEL SCALE
Planform	5500.00	0.860
Span (Theo.), In.	2348.0	29.35
Aspect ratio	6.96	6.96
Incidence angle, deg.	7.0	7.0
Chords, In.:		
MAC	327.8	4.10
Fus. sta. of 0.25 MAC	1339.87	16.75
W.P. of 0.25 MAC	190.42	2.38

TABLE III (Cont'd)

b.   Carrier Model

MODEL COMPONENT: VERTICAL - $V_{9.1}$

GENERAL DESCRIPTION: Swept vertical tail

MODEL SCALE: 0.0125   MODEL DWG: 1318I-1

DRAWING NO.:   65C13609, 1318-8

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo), Ft^2	630.0	0.098
Span (Theo), In.	386.5	4.830
Sweepback angles, deg., L.E.	50.12	50.12
Aspect ratio	1.25	1.25
Chord:		
Root (Theo), WP, In.	461.67	5.77
Tip (Theo), WP, In.	157.0	1.96
Mean Aerodynamic Chord, In.	334.16	4.20
Fus. Sta. of 0.25 MAC	2529.6	31.62
W.P. of 0.25 MAC	528.0	6.60

TABLE III (Cont'd)
b. Carrier Model

MODEL COMPONENT: HORIZONTAL TAIL - H_{15}

GENERAL DESCRIPTION: Swept 747 horizontal stabilizer

MODEL SCALE: 0.0125   MODEL NO.: 13181-1

DRAWING NO.: 65C13609, 1318-5

DIMENSIONS: | | FULL SCALE | MODEL SCALE |
|---|---|---|
| Area (Theo.), ft^2 | | | |
| Planform | | 1470.0 | 0.230 |
| Span (Theo), In. | | 873.00 | 10.91 |
| Aspect ratio | | 3.6 | 3.6 |
| Chords: | | | |
| MAC, In. | | 271.6 | 3.40 |
| Fus. Sta. of 0.25 MAC, In. | | 2563.9 | 32.05 |
| W.P. of 0.25 MAC, In. | | 175.0 | 2.19 |
| Sweepback angle of 0.25 MAC, deg. | | 37.5 | 37.5 |

TABLE III (Cont'd)
b. Carrier Model

MODEL COMPONENT: HORIZONTAL TAIL - $H_{15.6}$

GENERAL DESCRIPTION: Horizontal tail, H_{15}, with vertical fins on each

tip at body B.L. 427.3

MODEL SCALE: 0.0125   MODEL DWG: 1318I-1

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

DIMENSIONS:	FULL SCALE	MODEL SCALE
Fin Exposed Data (one side):		
Area = Ft^2	200.0	0.0312
Span, In.	252.0	3.15
Chord, In.	113.6	1.42

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N_{25}

GENERAL DESCRIPTION: Inboard 747, JT9D nacelle strut

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:

	FULL SCALE	MODEL SCALE
Wing B.L. of nacelle C_L, In.	470.0	5.875
Cant angle deg., inboard	2.0	2.0

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: M_{26}

GENERAL DESCRIPTION: Outboard 747, JT9D

Strut

MODEL SCALE: 0.0125   MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:	FULL SCALE	MODEL SCALE
W L of C_L, In.	834.0	10.425
Cant angle, deg. inboard	2.0	2.0

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N_{57}

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

MODEL SCALE: 0.0125   MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N_{58}

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

MODEL SCALE: 0.0125   MODEL DWG: 13181-1

DRAWING NO.: 65C13409, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: SPOILERS — S_{1-12}

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

MODEL SCALE: 0.0125   MODEL DWG: 13181-1

DRAWING NO.: 65013609, 1318-56

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

TABLE III. (Continued)

b. Carrier Model

MODEL COMPONENT: T_{14}

GENERAL DESCRIPTION: Flap track fairings, four on each side

MODEL SCALE: 0.0125

DRAWING NO.: 65C13609, 1318-67

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

TABLE III. Concluded.

MODEL COMPONENT : <u>Mounting Strut - S_1</u>

GENERAL DESCRIPTION : <u>Blade strut attachment to orbiter aft upper</u>

<u>fuselage where vertical tail is normally mounted. Strut leading edge</u>

<u>and lower trailing edge conform to the vertical tail planform. Airfoil</u>

<u>section is blunted diamond. The tip of the strut mounts to a sting.</u>

MODEL SCALE:　　　　<u>0.0125</u>

DRAWING NUMBER : <u>Rockwell W-11335H</u>

DIMENSIONS :	MODEL SCALE
Theoretical intersection of L.E. with fuselage ML, in.	
X_0	15.973
Z_0	6.250
Leading edge sweep angle, deg.	45.0
Trailing edge sweep angle, deg.	45.0
chord length, in.	2.38
maximum thickness, in.	0.52
distance from L.E. to maximum thickness, in.	1.42
position of sting $\mathbb{C}$, in. Z_0	12.835

TABLE IV.
CA23B DATASET DESCRIPTION
(INTERPOLATED/INCREMENTED DATASETS)

DATASET TYPE	DESCRIPTION
RNHXXX	Stability axis coefficient data for 747 carrier.
ANHXXX	Body axis coefficient data for 747 carrier.
BNHXXX	Pressure coefficient data for 747 carrier.
CNHXXX	Stability axis coefficient data for Orbiter.
DNHXXX	Body axis coefficient data for Orbiter.
ENHXXX	Pressure coefficient data for Orbiter.
UNH*XX	Interpolated data for 747 carrier.
VNH*XX	Interpolated data for Orbiter (α_c 2nd indep. var.)
ZNH*XX	Interpolated data for Orbiter (α_o 2nd indep. var.)
PNH*XX	Incremental proximity effects data for 747 carrier.
TNH*XX	Incremental proximity effects for Orbiter. (α_o 2nd indep. var.)
4NH*XX	Incremental proximity effects for Orbiter. (α_c 2nd indep. var.)

* 0 = IORB interpolation

   X = IORB and DX interpolation

   Y = IORB and DY interpolation

   M = MACH interpolation

TABLE V.

CA23B COEFFICIENT SCHEDULE

Dataset Type	Dataset Sequence	1st ID.	2nd ID.	COEFFICIENTS 1	2	3	4	5	6	7	8	9	10
RNHXXX	004-005	DZ	ALPHAC	MACH	CL	CD	CLM	CY	CYN	CBL			
	008-025,027-042			MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
ANHXXX	004-005			BETAC	PHIC	CA	CN	CSL	CLN				
	008-025,027-042			BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN		
BNHXXX	004-005			XZCP	XYCP	CPCC	CPSB1	CPSB2					
	008-025,027-042			XZCP	XYCP	CPCC	CPSB1	CPSB2					
CNHXXX	008-025,027-042	↓	↓	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	043-046		ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL			
	047-048	DX	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL			
DNHXXX	008-025,027-042	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN		
	043-046	DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN		DZ		
	047-048	DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ			
ENHXXX	008-025,027-042	DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2	
	043-046	DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2	
	047-048	DX	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2	
UNHQXX	008-011,013	DZ	ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
	020-025,027			→									
	034-035,040			→									
UNHXXX	010,013-017			→									
	027-031,034			→									
UNHYXX	010,013,018-019			→									
	027, 032-034			→									
UNHMXX	040-042			→									

TABLE V.

CA23B COEFFICIENT SCHEDULE (Continued)

Dataset Type	Dataset Sequence	1st ID.	2nd ID.	COEFFICIENTS 1	2	3	4	5	6	7	8	9	10
		DZ	ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
VNHOXX	008-011,013												
	020-025,027												
	034-035,040												
VNHXXX	010,013-017												
	027-031,034												
VNHYXX	010,013,018-019												
	027,032-034												
VNHMXX	040-042		ALPHAO	MACH	ALPHAC								
ZNHOXX	008-011,013												
	020-025,027												
	034-040												
ZNHXXX	010,013-017												
	027-031,034												
ZNHYXX	010,013,018-019												
	027,032-034												
ZNHMXX	040-042												
PNHOXX	008-011,013		ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL				
	020-025,027												
	034-040												
PNHXXX	010,013-017												
	027-031,034												
PNHYXX	010,013,018-019												
	027,032-034												

TABLE V.

CA23B COEFFICIENT SCHEDULE (Concluded)

Dataset Type	Dataset Sequence	1st ID.	2nd ID.	COEFFICIENTS									
				1	2	3	4	5	6	7	8	9	10
		DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL				
TNH0$\underline{X}$X	008-011,013												
	020-025,027												
	034-040												
TNHX$\underline{X}$X	010,013-017												
	027-031,034												
TNHY$\underline{X}$	010,013,018-019		ALPHAC										
	027,032-034												
4NH0$\underline{X}$X	008-011,013												
	020-025,027												
	034-040												
4NHX$\underline{X}$X	010,013-017												
	027-031,034												
4NHY$\underline{X}$	010,013,018-019												
	027,032-034												

NOTE: IORB = ALPHAO (α_O) - ALPHAC (α_C)

IORB in parameter block is a nominal value.

ID = independent variable.

0 = IORB interpolation

$\underline{X}$ = IORB and DX interpolation

$\underline{Y}$ = IORR and DY interpolation

M = Mach interpolation

TABLE VI.

INCREMENTAL DATA SET SUMMARY

(refer to Data Reduction)

$\Delta C_{747}(ORB)$	$C_{747}(ORB)$	$C_{747}(ISOL)$	$\Delta C_{ORB}(747)$	$C_{ORB}(747)$	$C_{ORB}(ISOL)$
PNHO08	UNHO08	RNHO04	TNHO08	ZNHO08	CNHO43
PNHO09	UNHO09	RNHO04	TNHO09	ZNHO09	CNHO43
PNHO10	UNHO10	RNHO05	TNHO10	ZNHO10	CNHO43
PNHX10	UNHX10	RNHO05	TNHX10	ZNHX10	CNHO43
PNHY10	UNHY10	RNHO05	TNHY10	ZNHY10	CNHO43
PNHO11	UNHO11	RNHO04	TNHO11	ZNHO11	CNHO43
PNHO13	UNHO13	RNHO05	TNHO13	ZNHO13	CNHO43
PNHX13	UNHX13	RNHO05	TNHX13	ZNHX13	CNHO43
PNHY13	UNHY13	RNHO05	TNHY13	ZNHY13	CNHO43
PNHX14	UNHX14	RNHO05	TNHX14	ZNHX14	CNHO43
PNHX15	UNHX15	RNHO05	TNHX15	ZNHX15	CNHO43
PNHX16	UNHX16	RNHO05	TNHX16	ZNHX16	CNHO43
PNHX17	UNHX17	RNHO05	TNHX17	ZNHX17	CNHO43
PNHY18	UNHY18	RNHO05	TNHY18	ZNHY18	CNHO43
PNHY19	UNHY19	RNHO05	TNHY19	ZNHY19	CNHO43
PNHO20	UNHO20	RNHO05	TNHO20	ZNHO20	CNHO46
PNHO21	UNHO21	RNHO04	TNHO21	ZNHO21	CNHO46
PNHO22	UNHO22	RNHO05	TNHO22	ZNHO22	CNHO46
PNHO23	UNHO23	RNHO05	TNHO23	ZNHO23	CNHO46
PNHO24	UNHO24	RNHO04	TNHO24	ZNHO24	CNHO46
PNHO25	UNHO25	RNHO04	TNHO25	ZNHO25	CNHO46
PNHO27	UNHO27	RNHO05	TNHO27	ZNHO27	CNHO45
PNHX27	UNHX27	RNHO05	TNHX27	ZNHX27	CNHO45
PNHY27	UNHY27	RNHO05	TNHY27	ZNHY27	CNHO45
PNHX28	UNHX28	RNHO05	TNHX28	ZNHX28	CNHO45
PNHX29	UNHX29	RNHO05	TNHX29	ZNHX29	CNHO45
PNHX30	UNHX30	RNHO05	TNHX30	ZNHX30	CNHO45
PNHX31	UNHX31	RNHO05	TNHX31	ZNHX31	CNHO45
PNHY32	UNHY32	RNHO05	TNHY32	ZNHY32	CNHO45
PNHY33	UNHY33	RNHO05	TNHY33	ZNHY33	CNHO45
PNHO34	UNHO34	RNHO05	TNHO34	ZNHO34	CNHO45
PNHX34	UNHX34	RNHO05	TNHX34	ZNHX34	CNHO45
PNHY34	UNHY34	RNHO05	TNHY34	ZNHY34	CNHO45
PNHO35	UNHO35	RNHO05	TNHO35	ZNHO35	CNHO45
PNHO36	UNHO36	RNHO05	TNHO36	ZNHO36	CNHO45
PNHO37	UNHO37	RNHO04	TNHO37	ZNHO37	CNHO45
PNHO38	UNHO38	RNHO05	TNHO38	ZNHO38	CNHO44
PNHO39	UNHO39	RNHO05	TNHO39	ZNHO39	CNHO43
PNHO40	UNHO40	RNHO05	TNHO40	ZNHO40	CNHO43

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity
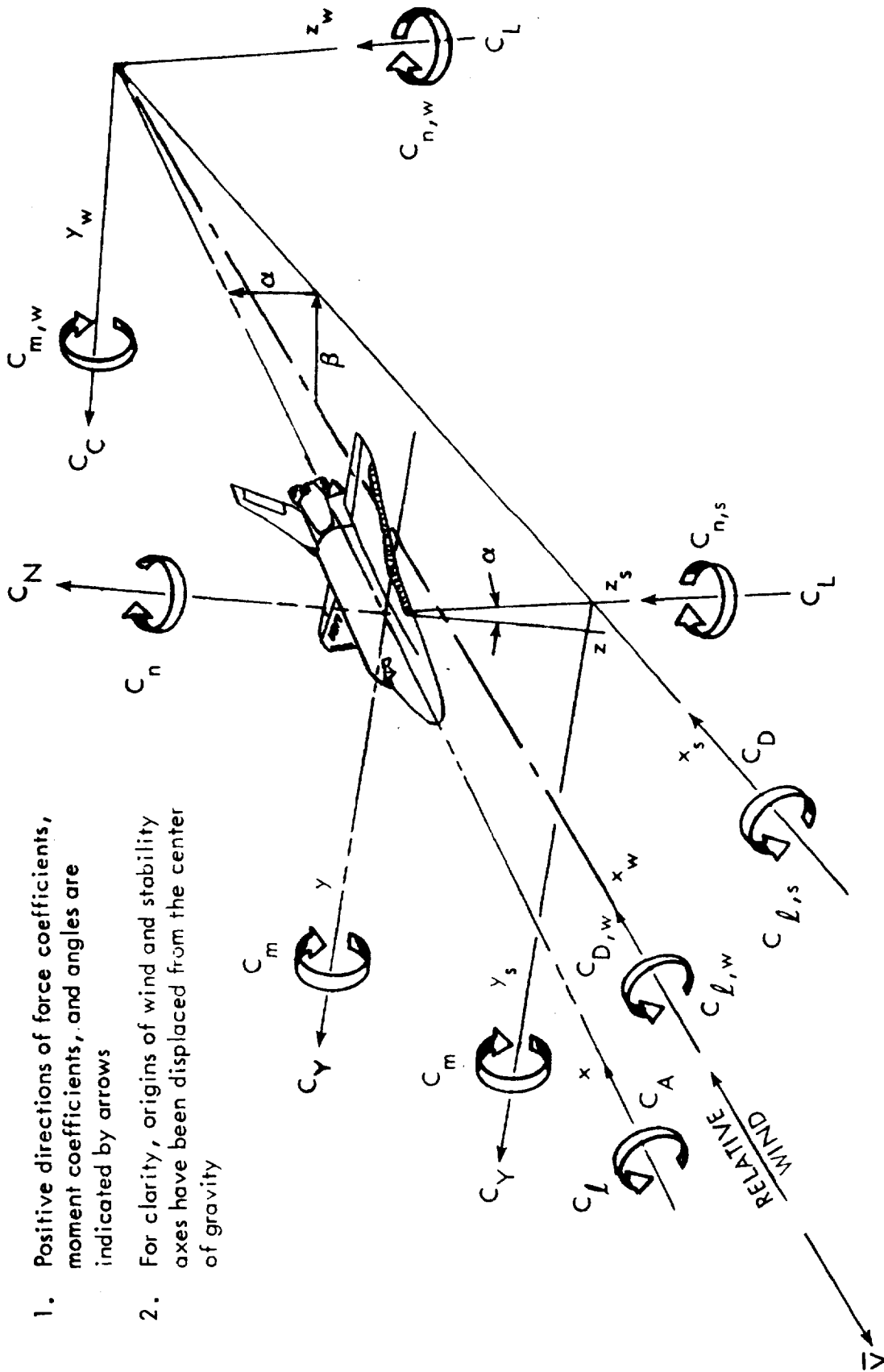
a.   Orbiter

Figure 1. – Axis Systems.

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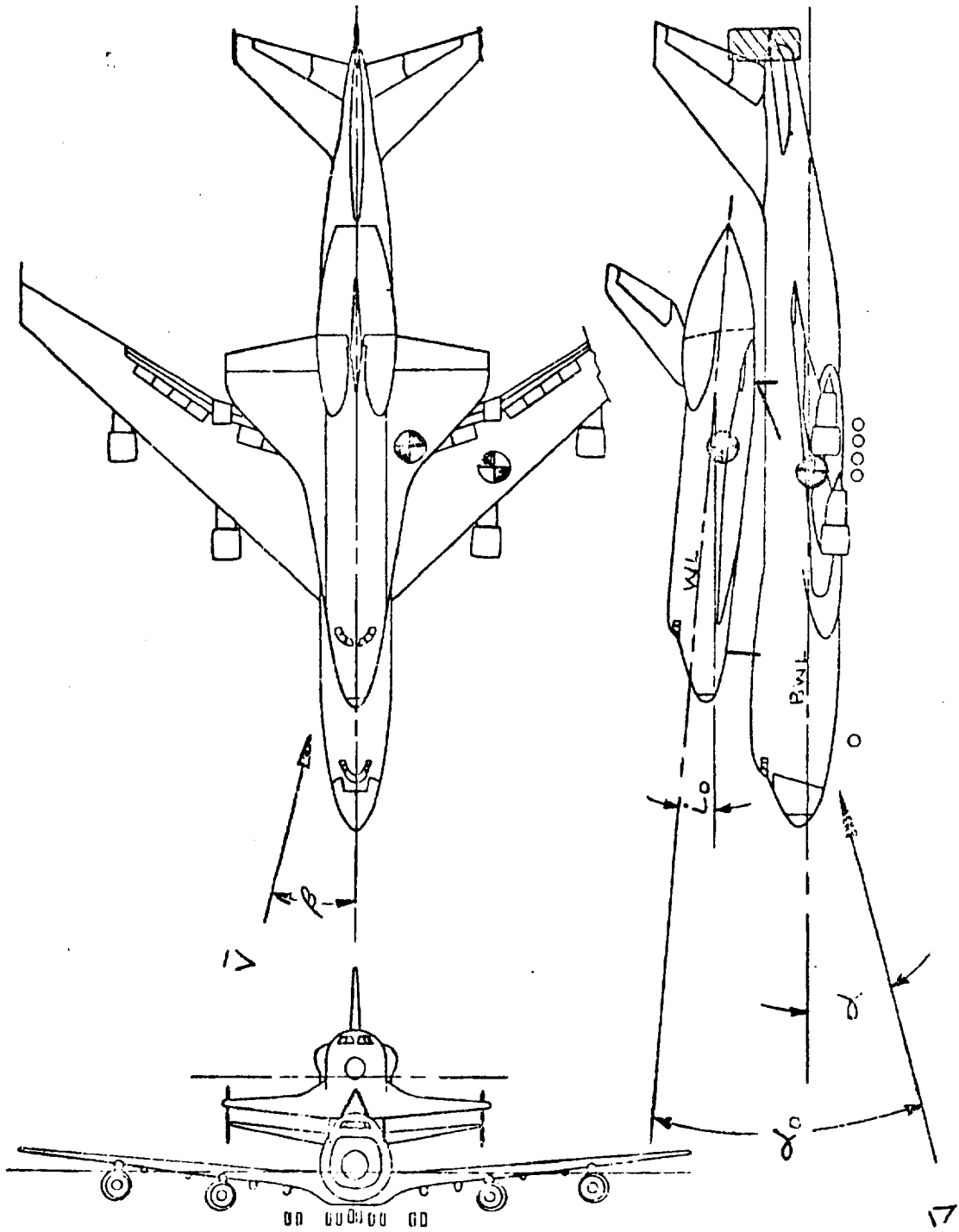
b. Orbiter/747 angular relations

Figure 1. – Concluded.

REFERENCE DIMENSIONS (FS)

	ORBITER	747 CARRIER
WING AREA ~ Ft²	2690	5500
MAC (c̄) ~ INCHES	474.81	327.78
SPAN (b) ~ INCHES	936.68	2348.04
MOMENT REFERENCE CENTER	67.5% LE	25.0 % C
F.S. ~ INCHES	1109.0	1339.9
W.P. ~ INCHES	375.0	190.8

X_o 1109

Z_o 375

Z_o 375

BWL 190.8

BSTA 1339.9

BWL 400
BSTA 1607

$\begin{pmatrix} X_o \ 96.57 \ Z_o \ 267.5 \ X_o \ 1317 \end{pmatrix}$
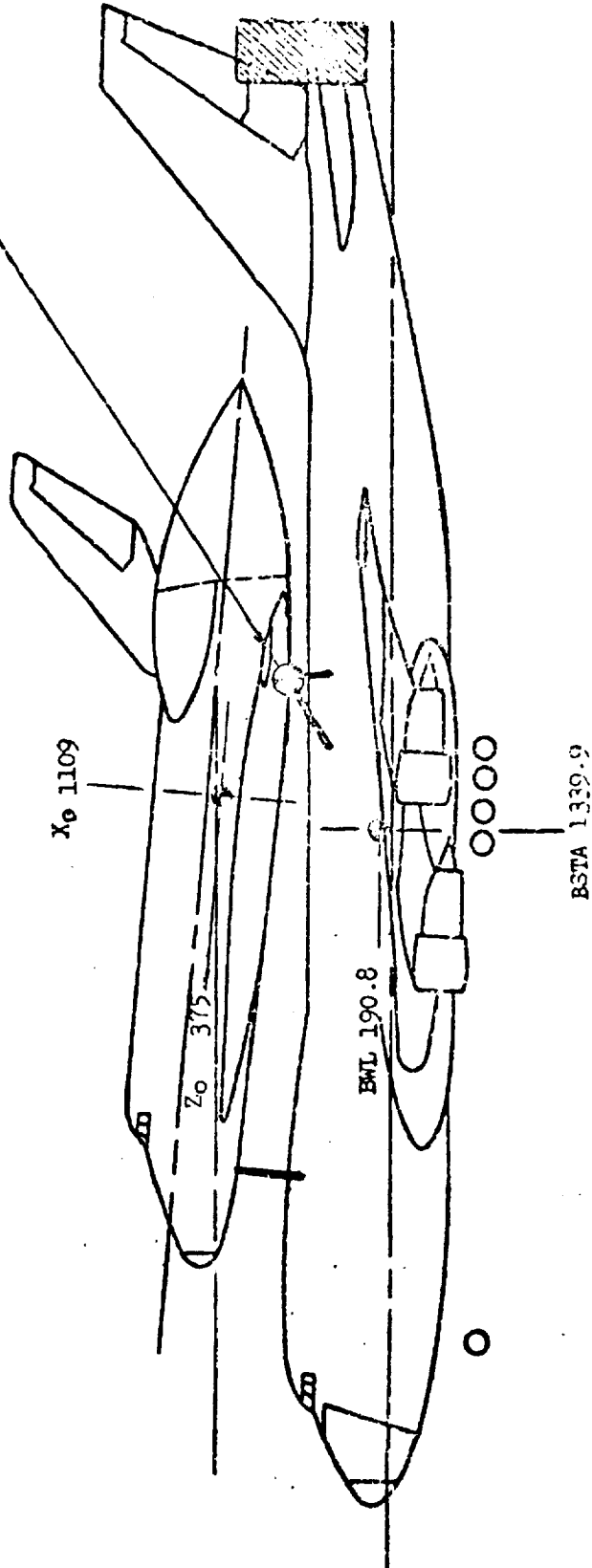
a.   Orbiter/747 flight test configuration reference dimensions

Figure 2. – Model Sketches
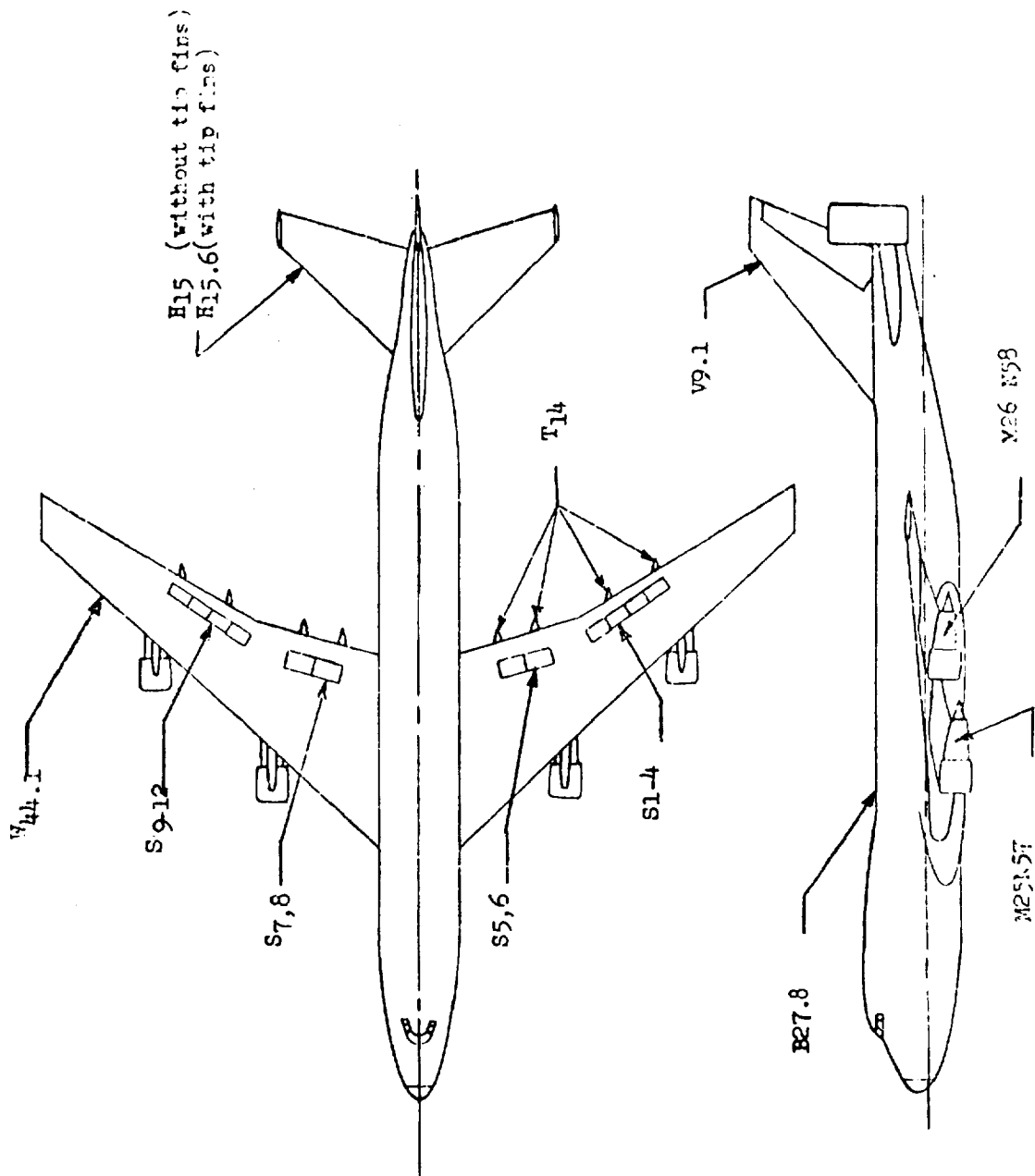
b. 747-100 configuration (Model 1318I-1)

Figure 2. – Continued.

65
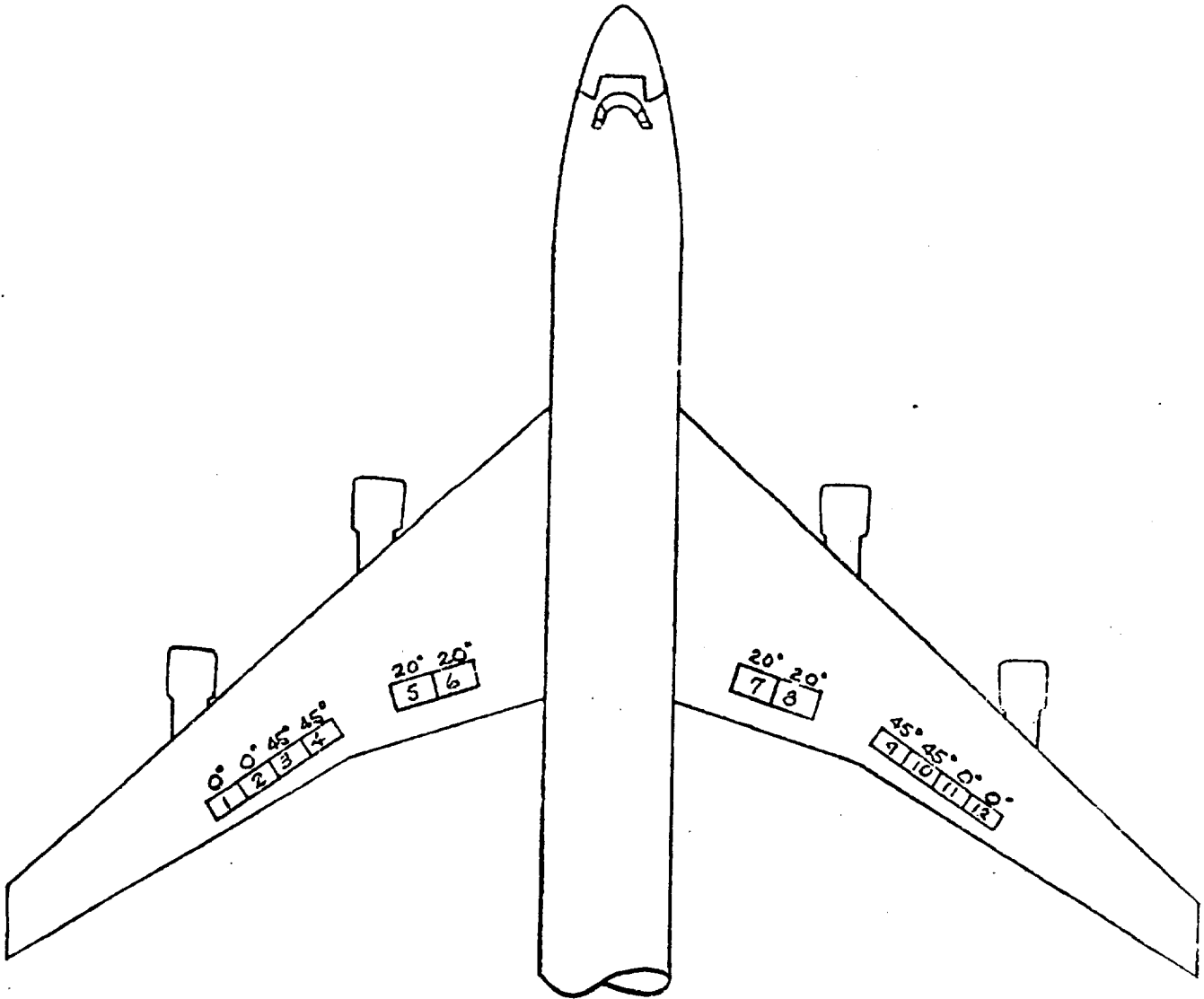
c. In-flight spoiler configuration
Figure 2. – Continued.
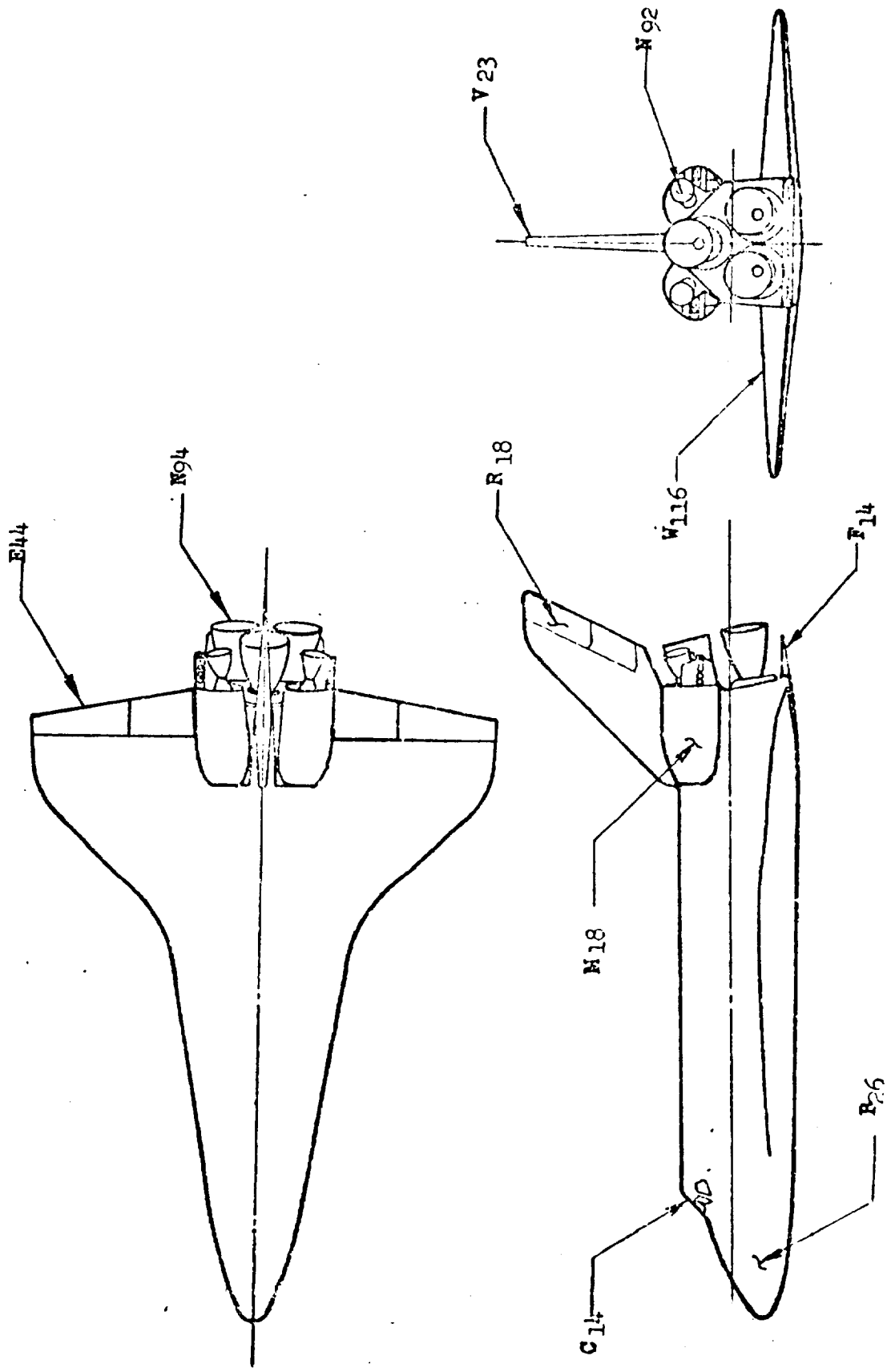
a. SSV Orbiter Configuration (VC70-000002)

Figure 2. — Continued.

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

FUSELAGE OML

X_w 1403.0

X_w 1423.0

16° BEVEL

6.00

X_w 1402.7

6.0 INCH CONSTANT WIDTH AT LOWER SURFACE

Y_w 312.5

X_w 1411.5

8° BEVEL BOTH SIDES

X_w 1470.0

Y_w 470.3

X_w 1387.0
ELEVON HL
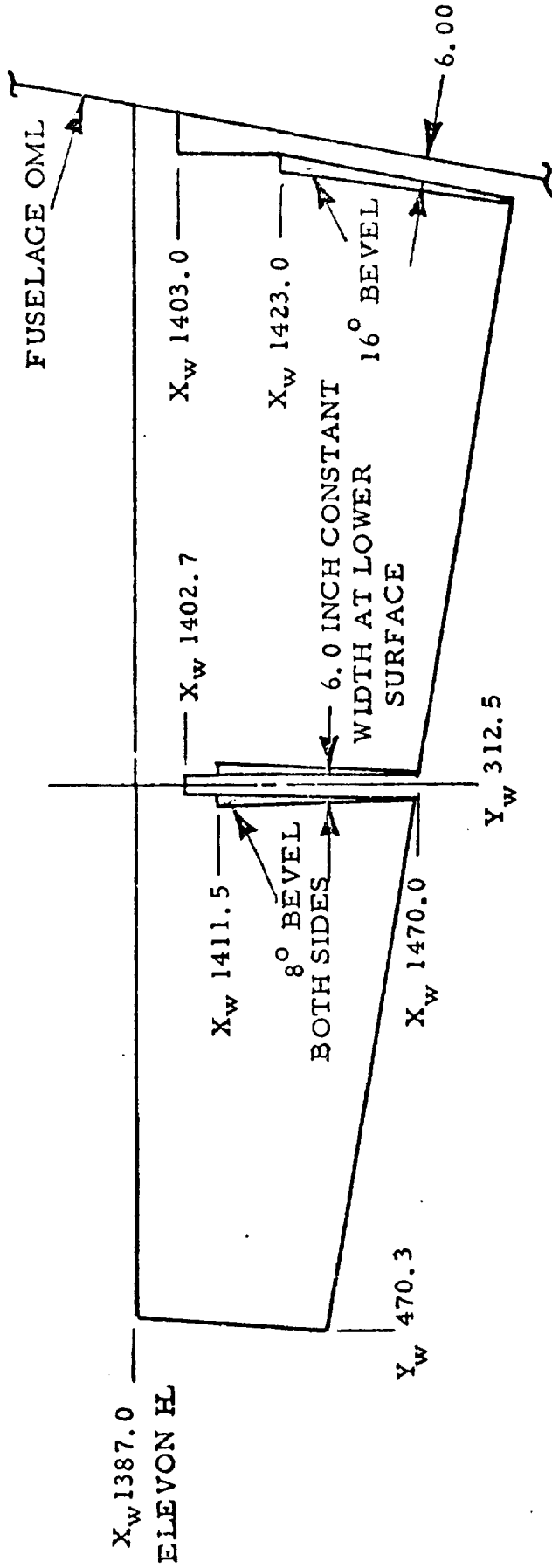
(ALL DIMENSIONS ARE FULL SCALE, INCHES)

(VIEW IS PERPENDICULAR TO WING REFERENCE PLANE)

e. Elevon – E44

Figure 2. – Continued.
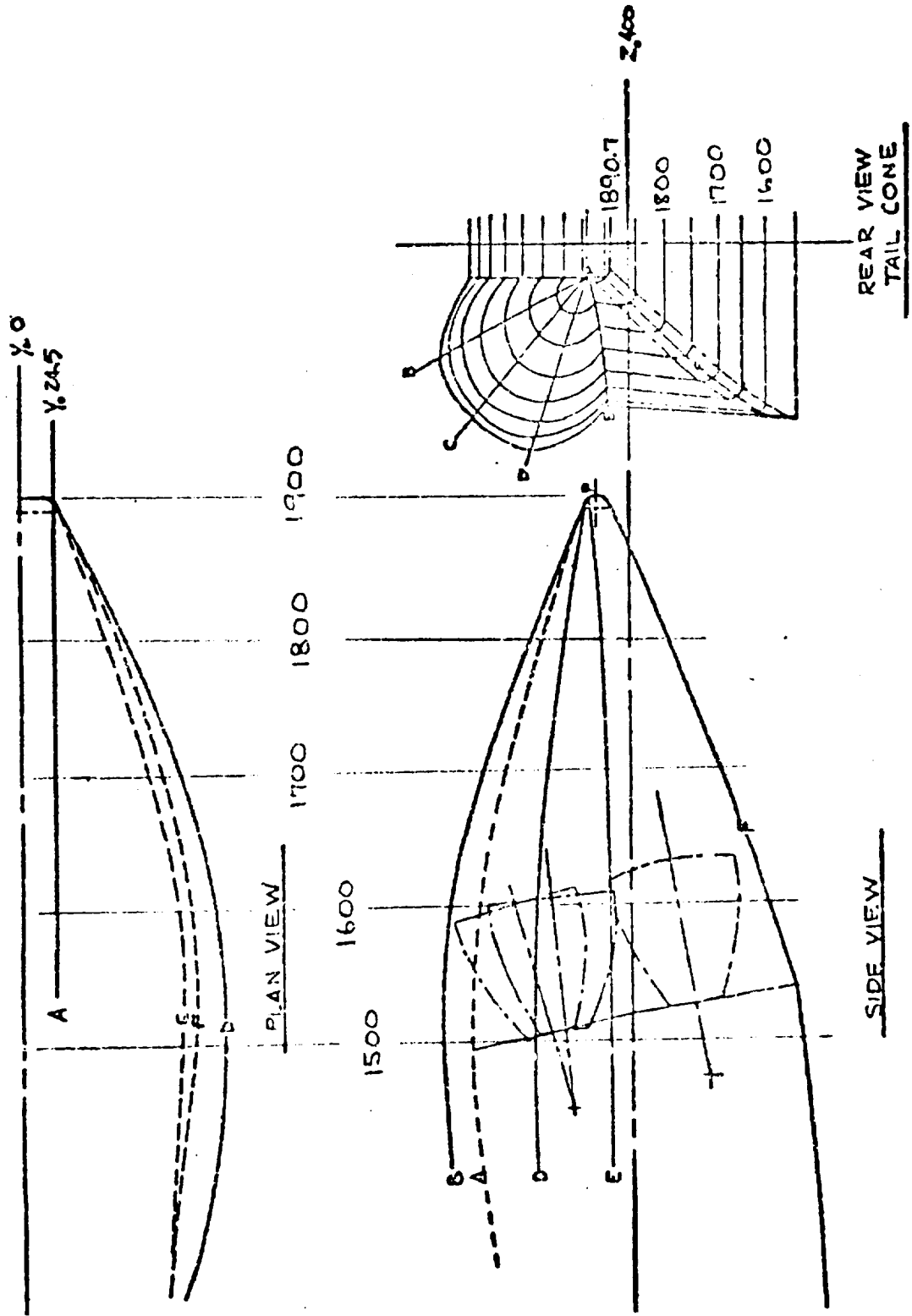
f. Orbiter tail cone TC$_4$ (X$_{3B}$)

Figure 2. - Continued.
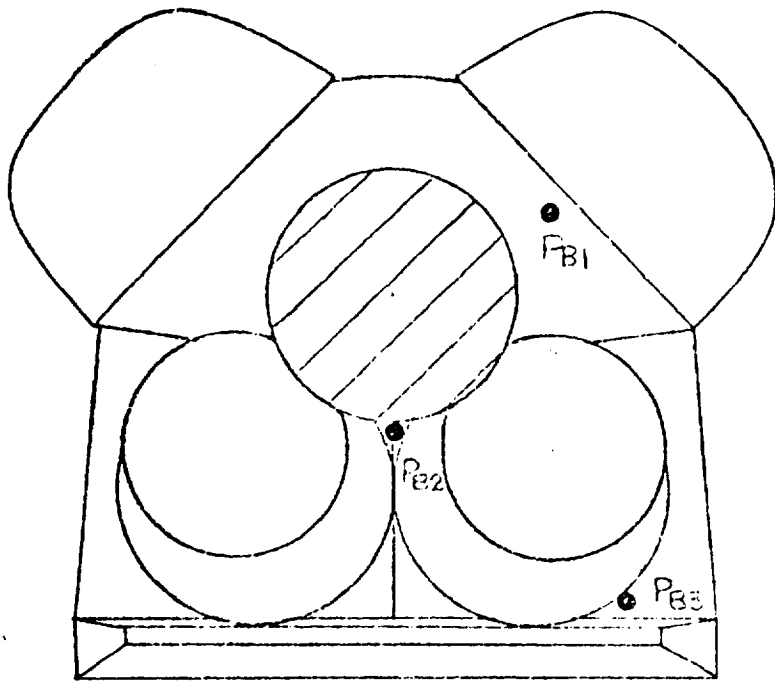
STING MOUNTED
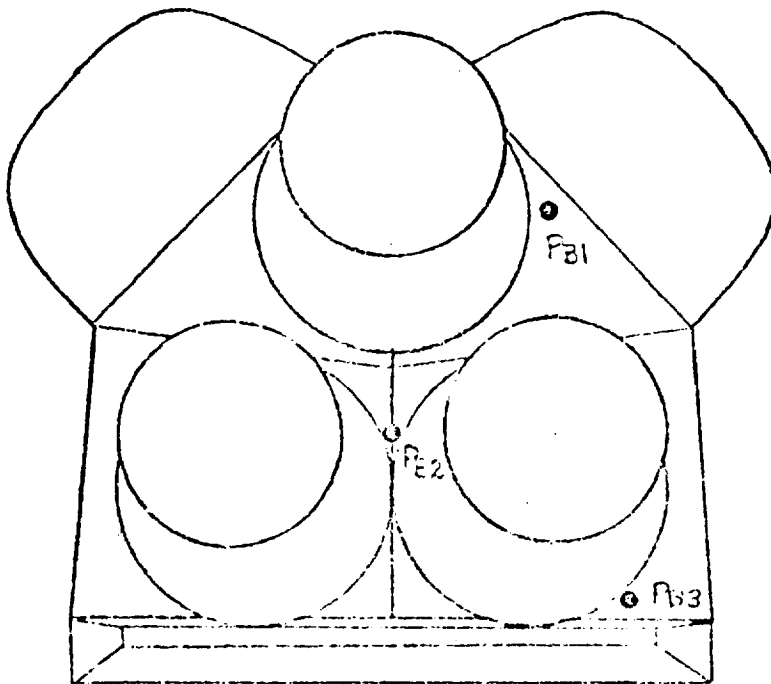
g. Orbiter base pressure tap locations

Figure 2. – Continued.
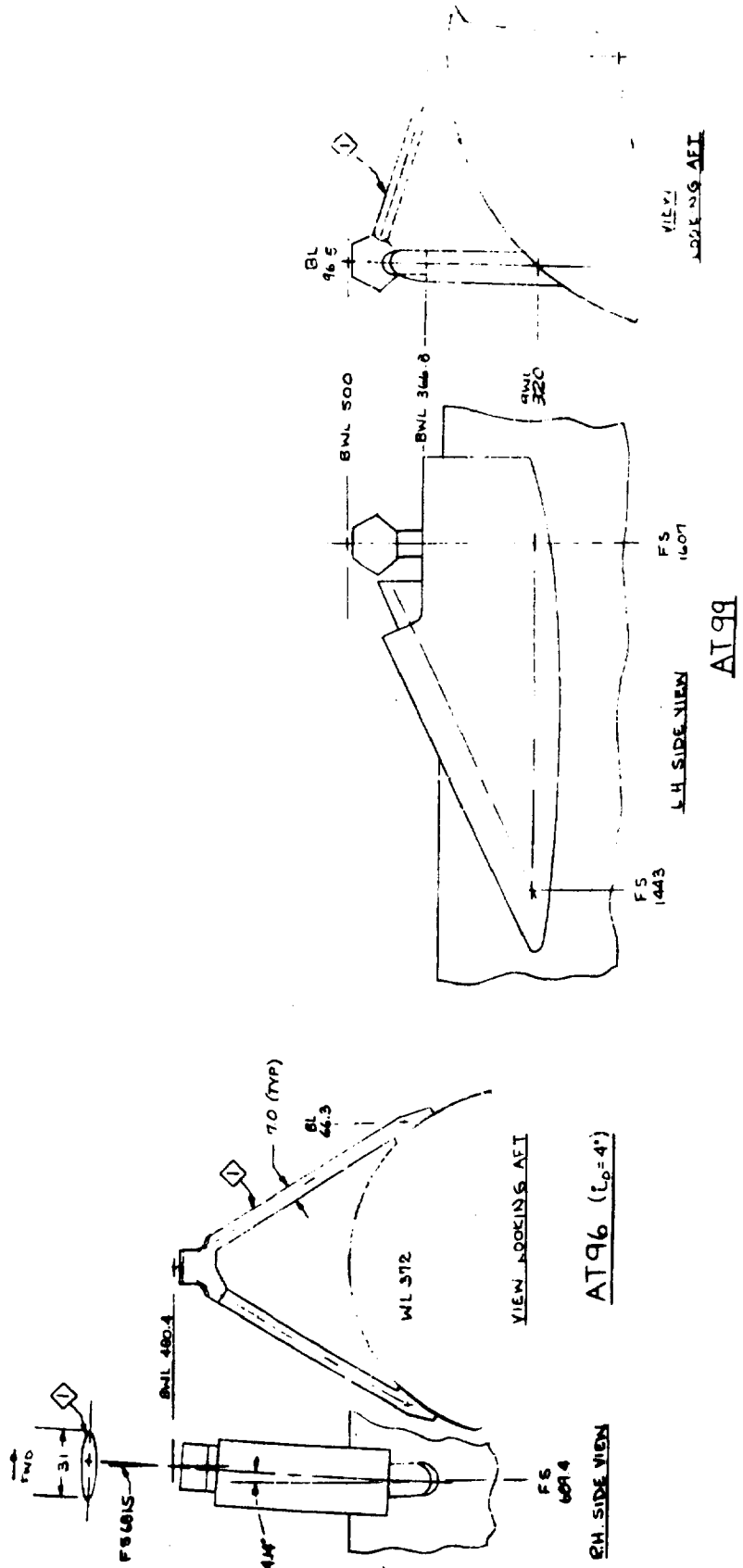
h. Orbiter/747 attach hardware AT_{96} and AT_{99}

Figure 2. – Continued.

71
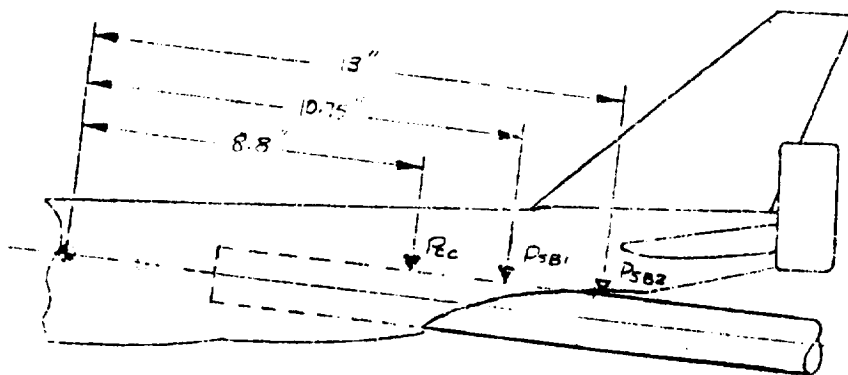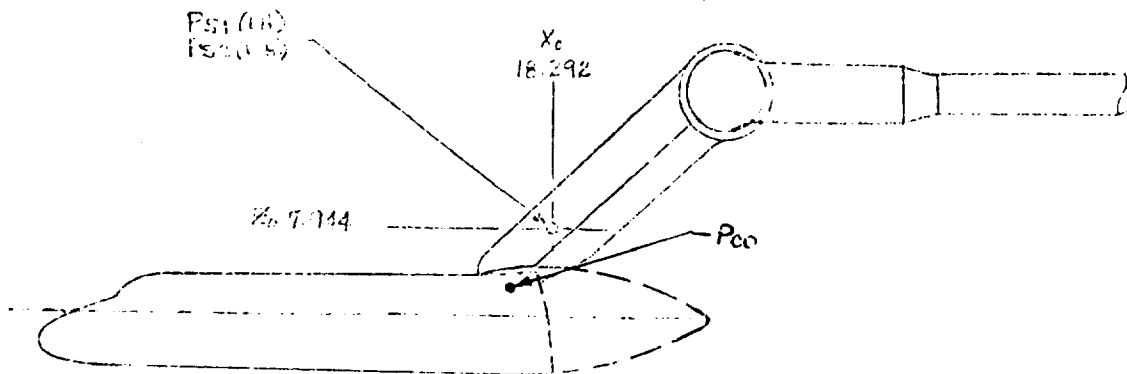
i.   747 sting cavity and orbiter blade strut pressure tap locations

Figure 2. - Concluded.

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a. Orbiter separation sequence

Figure 3. - Model Installation Photographs.
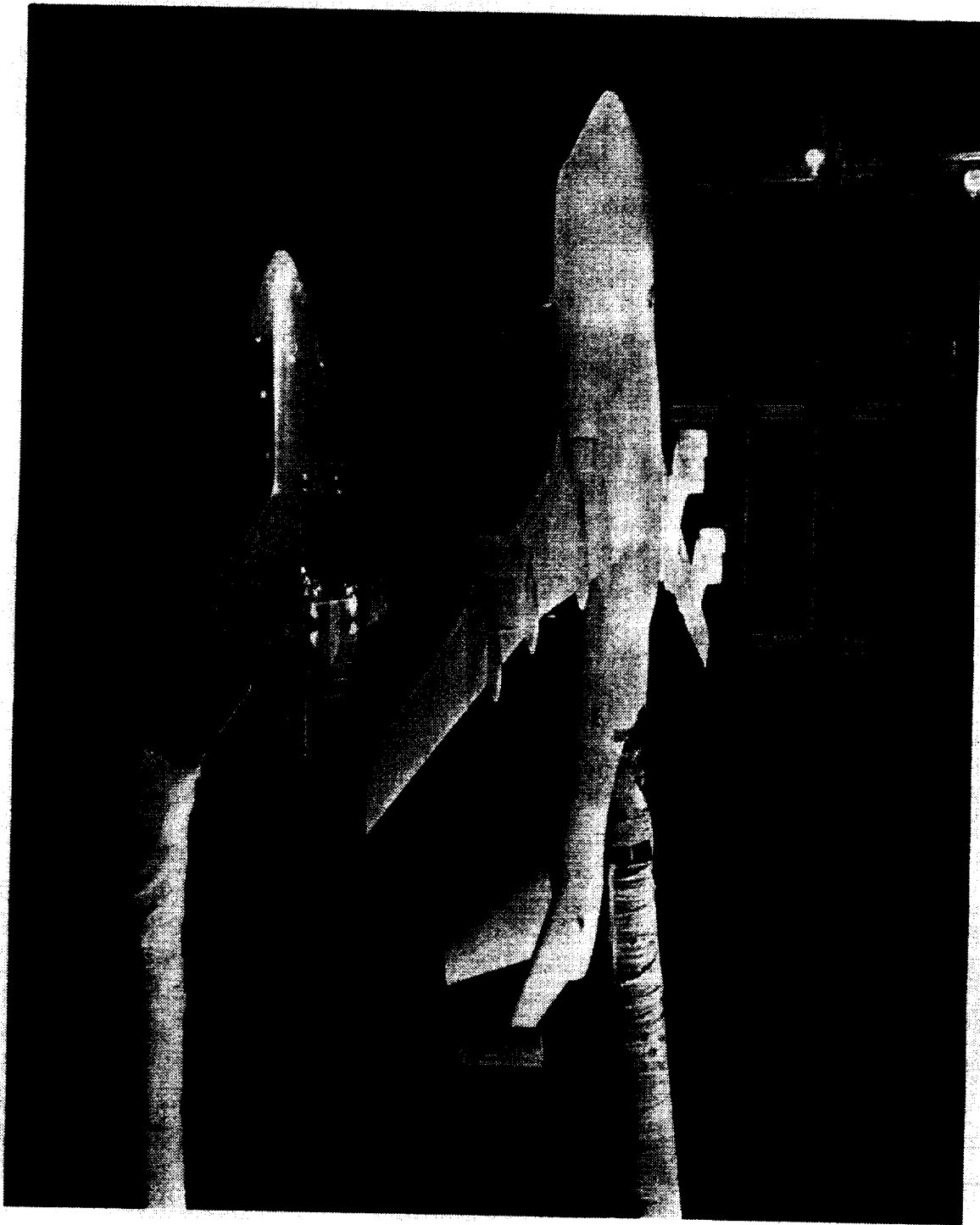
b. Separation of Orbiter with TC_4 in proximity to 747 carrier

Figure 3. - Continued.

74
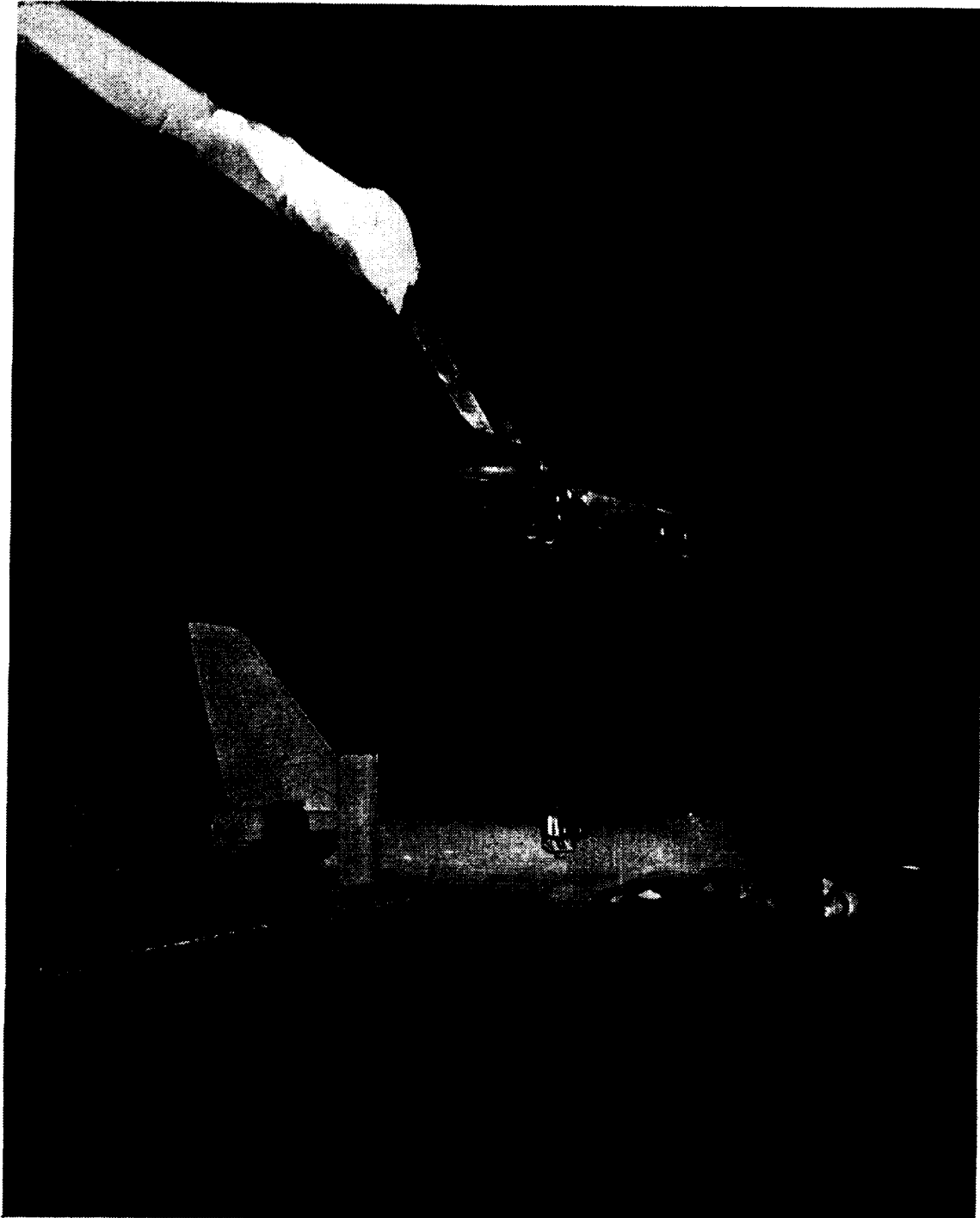
c. Three-quarter rear view showing aft attach
   fairings on 747 with Orbiter separated

Figure 3. - Continued.

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d. Orbiter Without TC_4 in proximity to 747 carrier

Figure 3. - Continued.

APPENDIX

TABULATED SOURCE DATA

Tabulated plotted data may be obtained upon
request from Data Management Services.

REFERENCE DATA

PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	-1.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	MACH	=	.600
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN. ZC						
SCALE	=	.0125									

RUN NO. 41/ 0   RN/L = 3.40   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	CL	CD	CLM	CY	CYN	CBL
131.927	-5.187	.59363	-.49054	.07664	.25812	.00224	-.00282	.00054
131.734	-3.634	.59393	-.36247	.06026	.22770	.00350	-.00267	.00015
131.585	-2.684	.59370	-.27172	.05288	.20400	.00513	-.00249	-.00042
131.467	-1.696	.59291	-.18543	.04771	.17618	.00692	-.00246	.00058
131.339	-.712	.59315	-.09488	.04553	.15059	.00890	.00231	.00024
131.218	.186	.59328	-.01062	.04518	.12665	.01194	-.00263	.00012
131.073	1.254	.59202	.08467	.04543	.10025	.01167	-.00204	.00110
130.941	2.216	.59205	.17312	.04714	.07877	.01351	-.00211	.00086
130.802	3.190	.59291	.25409	.04987	.05901	.01476	-.00213	.00108
130.658	4.233	.59294	.35229	.05364	.03661	.01585	-.00225	.00137
130.501	5.283	.59236	.44435	.05928	.01961	.01635	-.00233	.00144
130.357	6.213	.59254	.52433	.06623	.00976	.01662	-.00204	.00194
130.219	7.193	.59394	.61100	.07792	-.00216	.01722	-.00178	.00216
130.047	8.200	.59434	.69559	.09664	-.00206	.01631	-.00103	.00298
GRADIENT		-.00016	.09027	-.00062	-.02444	.00159	.00006	.00018

ARC 14-120(CA23B) 747/1 ATI   (RNH005) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA = .000   STAB = 5.000
RUDDER = .000   MACH = .600

RUN NO. 51/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	CL	CD	CLM	CY	CYN	CBL
130.569	-5.190	.59186	-.41372	.07099	-.05660	.00475	-.00349	.00081
130.436	-3.773	.59183	-.29293	.05678	-.09702	.00681	-.00361	.00027
130.276	-2.866	.59045	-.21752	.05099	-.12365	.00881	-.00351	-.00040
130.158	-1.854	.59142	-.11834	.04663	-.15887	.01266	-.00355	-.00058
130.031	-.858	.59094	-.03064	.04511	-.18750	.01209	-.00308	-.00018
129.869	.149	.59225	.06273	.04541	-.21556	.01241	-.00331	.00070
129.728	1.216	.59218	.15824	.04812	-.24076	.01220	-.00300	.00099
129.596	2.190	.59280	.25470	.05205	-.26286	.01330	-.00286	.00069
129.434	3.207	.59133	.34288	.05696	-.28019	.01496	-.00289	.00089
129.329	4.111	.59127	.42312	.06210	-.29188	.01406	-.00261	.00091
129.085	5.180	.59122	.51421	.07014	-.30219	.01534	-.00266	.00123
128.927	6.172	.59136	.59770	.07934	-.30790	.01608	-.00245	.00185
128.889	7.226	.59077	.69803	.09334	-.31335	.01580	-.00198	.00159
128.737	8.205	.59073	.77554	.11185	-.30176	.01682	-.00146	.00276
GRADIENT		.00008	.09147	.00089	-.02521	.00081	-.00012	.00016

ARC 14-120(CA23B) 747/1 ATI O2S1 (CARRIER DATA)   (RNH008) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA = .000   STAB = -1.000
RUDDER = .000   ELEVON = 5.000
IORB = 6.000   DX = .000
DY = ...   MACH = .600

RUN NO. 81/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	DY	DX	CLM	CY	CYN	CBL
4.365	6.79528	.58953	-.12649	.04226	-.20623	.02554	.25234	.00742	-.00206	.00043
2.954	8.20568	.58961	.05473	.04487	.20371	-.05088	.19512	.01177	-.00291	.00116
3.443	10.25770	.59037	.21255	.04968	.23854	-.08104	.15943	.01539	-.00297	.00124
GRADIENT	.83739	.00020	.08238	.00179	.10961	-.02607	-.02264	.00194	-.00022	.00020

RUN NO. 82/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	DY	DX	CLM	CY	CYN	CBL
6.994	6.00552	.58956	-.13659	.04351	-.34829	-.12176	.23701	.00740	-.00216	.00046
7.541	8.29366	.58924	.07533	.04605	.32784	.00073	.17544	.01199	-.00213	.00074
7.335	10.30330	.59180	.23191	.05166	.49519	-.08161	.14057	.01590	-.00227	.00038
GRADIENT	.95577	.00047	.08222	.00178	-.03097	.01067	-.02162	.00189	-.00002	-.00001

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH008)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.751	-.141	.59169	6.01990	-.16650	-.54241	-.12587	.04436	.22348	.00694	-.00207	.00025
9.637	2.414	.59244	8.28560	.04687	-.44705	.08773	.04687	.16388	.01139	-.00208	.00042
9.522	4.401	.59008	10.30680	-.06067	-.42173	.24069	.05234	.13143	.01452	-.00196	.00093
	GRADIENT	-.00033	.94128	.02611	.02708	.08085	.00172	-.02041	.00167	.00002	.00015

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.752	-.014	.59254	6.14126	-.10545	-.49569	-.10356	.04506	.20033	.00772	-.00226	.00006
15.063	2.461	.59202	8.39154	.02080	-.33369	.10466	.04785	.14230	.01105	-.00183	.00037
15.188	4.492	.59069	10.47500	-.10713	-.43565	.26565	.05395	.11139	.01568	-.00221	.00085
	GRADIENT	-.00040	.95993	.00147	.01520	.08202	.00194	-.01987	.00175	.00002	.00017

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.536	-.028	.59150	6.09616	-.09164	-.41648	-.08484	.04521	.17299	.00687	-.00223	.00084
29.860	2.464	.59156	8.37419	-.00094	-.32859	.13201	.04828	.11921	.01204	-.00221	.00048
29.902	4.306	.59173	10.26970	-.13705	-.42608	.27339	.05405	.08575	.01594	-.00248	.00096
	GRADIENT	-.00005	.96007	-.00776	-.00008	.08290	.00199	-.02021	.00209	-.00005	.00002

RUN NO. 86/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.873	-.065	.59219	6.08741	-.08155	-.48477	-.08207	.04511	.16214	.00804	-.00248	.00067
44.666	2.496	.59329	8.38191	-.00515	-.48370	.15088	.04873	.10568	.01275	-.00225	.00075
45.029	4.342	.59219	10.32980	-.21858	-.52900	.29929	.05493	.07253	.01453	-.00220	.00094
	GRADIENT	.00003	.95852	-.02730	-.00939	.08660	.00218	-.02044	.00150	.00006	.00006

RUN NO. 87/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.039	-.106	.59335	6.00790	.05961	-.54456	-.06960	.04566	.15837	.00813	-.00246	.00030
50.412	2.490	.59218	8.42595	-.20322	-.44509	.14715	.04862	.10373	.01269	-.00231	.00105
50.166	4.334	.59202	10.27840	-.19609	-.49766	.30370	.05489	.06761	.01602	-.00241	.00128
	GRADIENT	-.00031	.95987	-.06045	.01238	.08404	.00202	-.02048	.00178	.00002	.00022

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ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA) (RNH009) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	.000	-1.000
ELEVON =	.000	5.000
DX =	8.000	.000
MACH =	.000	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 91/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.075	.274	.59107	8.9824!	-2.26005	-.48266	-.13112	.04079	.28083	.00837	-.00257	.00036
7.276	2.380	.59100	10.26110	-.15449	-.50319	.04574	.04325	.23122	.01073	-.00232	.00081
7.800	4.334	.59115	12.33510	-.09343	-.54526	.20057	.04794	.19858	.01342	-.00216	.00051
	GRADIENT	-.00002	.82302	.53973	-.01535	.08173	.00175	-.02030	.00124	.00010	.00004

RUN NO. 92/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.930	-.015	.59119	8.14574	-.14314	-.47456	-.14129	.04223	.25910	.00598	-.00224	.00067
10.158	2.498	.59200	10.44690	-.03224	-.44624	.05984	.04388	.21521	.01137	-.00255	.00103
9.843	4.339	.59032	12.29420	-.06267	-.55214	.20916	.04917	.18271	.01400	-.00226	.00081
	GRADIENT	-.00017	.95062	.01999	-.01611	.08046	.00154	-.01754	.00186	.00001	.00004

RUN NO. 93/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.862	-.101	.59246	8.04677	-.13258	-.38124	-.13335	.04315	.23726	.00559	-.00213	.00049
14.490	2.534	.59206	10.40940	.00278	-.47713	.07903	.04573	.19003	.01067	-.00235	.00095
15.108	4.322	.59336	12.32420	-.12014	-.54510	.22164	.05083	.15600	.01392	-.00218	.00082
	GRADIENT	.00018	.95159	.00646	-.03699	.08027	.00168	-.01834	.00189	.00002	.00008

RUN NO. 94/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.926	-.027	.59233	8.10042	-.14976	-.52747	-.09066	.04491	.19330	.00679	-.00224	.00054
29.957	2.539	.59264	10.47820	-.09792	-.43116	.11534	.04758	.14450	.01248	-.00262	.00110
29.720	4.365	.59102	12.31910	-.14966	-.56262	.26221	.05347	.11135	.01683	-.00279	.00122
	GRADIENT	-.00027	.95845	.00134	-.00504	.08035	.00189	-.01868	.00228	-.00013	.00016

RUN NO. 95/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.465	-.192	.59190	7.89170	-.04396	-.57621	-.09977	.04486	.18072	.00630	-.00222	.00055
44.798	2.406	.59246	10.32970	-.06445	-.44672	.11981	.04754	.12800	.01117	-.00222	.00111
44.825	4.485	.59147	12.45250	-.18625	-.47087	.29730	.05490	.08693	.01605	-.00250	.00096
	GRADIENT	-.00008	.97370	-.02950	.02364	.08489	.00210	-.02006	.00208	-.00006	.00009

ARC 14-120(CA23B)　747/1 ATI 02S1 (CARRIER DATA)　　　　(RNH009)　(08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = .000	CBL -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = .000	5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB =	DX = 8.000	.000
SCALE = .0125		DY =	MACH = .000	.600

RN/L = 3.35　　GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 96/ 0

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.555	-.078	.59172	8.07496	-.00083	-.51299	-.07765	.04550	.17100	.00892	-.00261	.00008
50.407	2.550	.59179	10.48780	-.00063	-.48408	.14545	.04846	.11750	.01230	-.00227	.00048
50.452	4.393	.59307	12.38500	-.12157	-.45860	.29897	.05451	.08267	.01629	-.00257	.00100
GRADIENT	.0125	.00028	.96078	-.02516	.01208	.03427	.00196	-.01980	.00162	.00002	.00020

ARC 14-120(CA23B)　747/1 ATI 02S1 (CARRIER DATA)　　　　(RNH010)　(08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = .000	CBL 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = .000	5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB =	DX = 8.000	.000
SCALE = .0125		DY =	MACH = .000	.600

RN/L = 3.39　　GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 101/ 0

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.742	.132	.59549	8.00852	-.12109	.03761	-.04427	.04250	-.05073	.01112	-.00328	.00022
7.349	2.303	.59593	10.24330	-.02354	.14223	.12201	.04602	-.08840	.01350	-.00308	.00027
7.463	4.270	.59467	12.22970	-.05880	.11115	.28203	.05313	-.12692	.01505	-.00270	.00094
GRADIENT		-.00019	1.02022	.01557	.01830	.07881	.00255	-.01839	.00095	.00014	.00017

RN/L = 3.38　　GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 102/ 0

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.009	-.206	.59438	7.96112	-.15476	-.38643	-.07108	.04284	-.05625	.00995	-.00284	.00016
10.088	2.335	.59797	10.27510	-.02114	-.41237	.13875	.04718	-.10779	.01426	-.00296	.00068
10.447	4.346	.59946	12.36190	-.09557	-.31935	.30214	.05528	-.14897	.01588	-.00252	.00107
GRADIENT		.00092	.96426	.01471	.01366	.08201	.00269	-.02036	.00132	.00006	.00020

RN/L = 3.37　　GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 103/ 0

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.028	-.178	.59684	7.98002	-.14715	-.34488	-.04596	.04395	-.08538	.01045	-.00287	.00006
14.812	2.367	.59644	10.27820	-.01582	-.39669	.15875	.04860	-.13719	.01251	-.00270	.00047
15.043	4.381	.59768	12.36480	-.09065	-.41872	.32213	.05727	-.17831	.01464	-.00237	.00041
GRADIENT		.00017	.95936	.01408	-.01637	.08071	.00287	-.02038	.00091	.00011	.00008

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH010)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 104/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.734	-.108	.59714	8.00410	-.10253	-.51265	-.00567	.04480	-.13755	.01041	-.00283	.00034
30.254	2.360	.59646	10.33170	-.08537	-.47228	.20061	.05083	-.19267	.01335	-.00308	.00033
29.860	4.407	.59578	12.36740	-.12801	-.46917	.36425	.06049	-.22858	.01470	-.00288	.00070
GRADIENT		-.00030	.96574	-.00522	-.00986	.08200	.00344	-.02024	.00096	-.00001	.00008

RUN NO. 105/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.868	-.111	.59615	8.01493	-.1246	-.41856	.01647	.04518	-.16267	.00978	-.00283	.00024
45.183	2.422	.59623	10.39430	-.11112	-.43596	.22835	.05195	-.21833	.01319	-.00296	.00052
45.129	4.429	.59500	12.42070	-.22071	-.48760	.39143	.06258	-.25078	.01470	-.00274	.00045
GRADIENT		-.00024	.96903	-.02280	-.01485	.08263	.00378	-.01952	.00109	.00002	.00005

RUN NO. 106/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.418	-.076	.59354	8.06252	-.00328	-.42559	.01985	.04532	-.16845	.01025	-.00298	.00043
50.480	2.472	.59459	10.42250	-.01726	-.50454	.23712	.05236	-.22520	.01229	-.00286	.00058
50.477	4.415	.59433	12.40590	-.14625	-.54820	.40064	.06269	-.25671	.01499	-.00286	.00088
GRADIENT		-.00019	.96499	-.03050	-.02749	.08481	.00381	-.01978	.00104	.00003	.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH011)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 111/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.151	.047	.59320	4.01104	-.08958	-.18456	-.09014	.04592	.18409	.00782	-.00183	.00027
3.118	2.270	.59295	6.13462	-.06761	-.22048	.09506	.04760	.13833	.01255	-.00192	.00065
3.528	4.264	.59212	8.21639	-.08397	-.22023	.25598	.05254	.10136	.01577	-.00179	.00084
GRADIENT		-.00025	.99629	.00149	-.00861	.08209	.00155	-.01963	.00189	.00001	.00013

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (RNH011) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 112/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.547	.59381	-.170	4.03841	-.20703	-.12903	-.09319	.04576	.18261	.00806	-.00196	.00057
7.199	.59203	2.385	6.25137	.12007	-.22900	.12091	.04829	.12728	.01279	-.00193	.00052
7.175	.59299	4.257	8.17837	-.04267	-.20347	.26770	.05313	.09110	.01682	-.00205	.00080
	-.00021	GRADIENT	.93117	.04249	-.01813	.08166	.00163	-.02073	.00197	-.00002	.00005

RUN NO. 113/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.781	.59267	-.120	4.05269	.16821	-.18607	-.08213	.04617	.18008	.00878	-.00209	.00019
9.781	.59142	2.353	6.23779	.09256	-.22556	.12287	.04825	.12534	.01303	-.00212	.00049
9.491	.59138	4.419	8.30710	-.01048	-.22926	.28506	.05430	.08523	.01694	-.00213	.00036
	-.00029	GRADIENT	.93566	.03704	-.00973	.08097	.00176	-.02094	.00180	-.00001	.00000

RUN NO. 114/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.874	.59347	-.041	4.15214	-.12322	-.19947	-.07244	.04651	.16826	.01007	-.00255	.00006
14.967	.59386	2.414	6.32741	-.01929	-.23114	.13302	.04829	.11641	.01347	-.00222	.00122
14.923	.59566	4.392	8.34322	-.17291	-.18094	.29121	.05439	.07844	.01669	-.00218	.00092
	.00048	GRADIENT	.94304	-.00909	-.00257	.08209	.00173	-.02029	.00149	-.00009	.00021

RUN NO. 115/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.907	.59500	-.177	4.00406	-.12413	-.17462	-.06534	.04588	.15453	.00816	-.00224	.00048
29.803	.59479	2.432	6.32040	-.14288	-.23873	.15686	.04869	.10008	.01265	-.00199	.00101
29.693	.59391	4.435	8.35864	-.12964	-.21969	.32304	.05525	.06018	.01715	-.00231	.00075
	-.00023	GRADIENT	.94143	-.00149	-.01050	.08426	.00199	-.02048	.00194	-.00001	.00006

RUN NO. 116/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.786	.59320	-.134	4.02455	-.06309	-.24970	-.04588	.04576	.14632	.00824	-.00219	.00030
45.057	.59320	2.347	6.29147	-.22253	-.27150	.16815	.04813	.09216	.01344	-.00211	.00065
44.452	.59252	4.450	8.35115	-.10643	-.18981	.34174	.05547	.05220	.01672	-.00226	.00108
	-.00014	GRADIENT	.94287	-.01108	.01242	.08460	.00209	-.02057	.00186	-.00001	.00017

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH012)   (08 OCT 75)

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

PARAMETRIC DATA
BETA = .000   STAB = -1.000
RUDDER = .000   ELEVON = 5.000
IORB = 6.000   DX = .000
DY = .000   MACH = .600

RUN NO. 121/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.209	.59480	.038	5.99659	-.06803	-.28949	-.11855	.04364	.24249	.00761	-.00192	-.00008
3.176	.59631	2.411	8.26383	-.05291	-.22924	.07768	.04526	.19210	.01063	-.00200	.00072
3.398	.59450	4.319	10.27320	-.08407	-.32241	.22480	.04996	.16229	.01554	-.00231	.00032
GRADIENT	-.00004		.99710	-.00334	-.00637	.03029	.00145	-.01883	.00183	-.00009	.00010

RUN NO. 122/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.586	.59403	-.026	6.16280	-.20573	-.26645	-.10314	.04431	.23069	.00853	-.00236	.00005
7.752	.59281	2.399	8.34562	-.04076	-.30365	.09232	.04628	.17495	.01210	-.00234	.00091
7.261	.59334	4.448	10.37730	-.07958	-.41296	.25013	.05166	.14153	.01594	-.00226	.00070
GRADIENT	-.00016		.94074	.02940	-.03222	.07901	.00162	-.02002	.00165	.00002	.00015

RUN NO. 123/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.180	.59296	-.156	6.05873	-.19455	-.29121	-.11151	.04457	.22108	.00733	-.00233	.00022
9.988	.59362	2.439	8.34630	.02098	-.28681	.10203	.04684	.16346	.01253	-.00234	.00067
10.110	.59257	4.458	10.42810	-.10402	-.32093	.26451	.05236	.13011	.01601	-.00217	.00080
GRADIENT	-.00007		.94394	.02257	-.00606	.08153	.00165	-.01983	.00189	-.00003	.00013

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH013)   (08 OCT 75)

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

PARAMETRIC DATA
BETA = .000   STAB = 5.000
RUDDER = .000   ELEVON = 5.000
IORB = 6.000   DX = .000
DY = .000   MACH = .600

RUN NO. 131/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.093	.59355	.127	6.06234	-.01073	-.54464	-.03391	.04450	-.08578	.00644	-.00061	.00004
3.006	.59495	2.255	8.09604	-.05380	-.49183	.14021	.04857	-.13502	.01099	-.00099	.00011
3.460	.59342	4.338	10.28890	-.06887	-.57379	.30316	.05671	-.16778	.01191	-.00070	.00052
GRADIENT	-.00003		1.00357	-.01383	-.00681	.08006	.00290	-.01949	.00130	-.00002	.00011

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)

(RNH013) (08 OCT 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN.	XC
LREF = 327.7800 IN.	YMRP = .0000 IN.	YC
BREF = 2348.0-00 IN.	ZMRP = 190.7500 IN	ZC
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 132/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.217	-.139	.59173	6.01524	-.15708	-.42273	-.04323	.04480	-.09614	.00651	-.00076	.00905
7.234	2.360	.59269	8.25183	.04116	-.50229	.15965	.04999	-.15708	.00960	-.00073	.00056
7.262	4.367	.59204	10.29700	-.06766	-.51025	.32276	.05878	-.18934	.01133	-.00059	.00075
GRADIENT		.00008	.94800	.02224	-.01992	.08122	.00306	-.02083	.00108	.00004	.00016

RUN NO. 133/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.116	-.237	.59189	5.97668	-.21796	-.45542	-.04628	.04490	-.10655	.00702	-.00104	.00039
9.960	2.407	.59154	8.30916	.00486	-.58665	.17509	.05075	-.16939	.00933	-.00078	.00031
9.890	4.371	.59196	10.31750	-.10588	-.58819	.33177	.05935	-.20064	.01168	-.00074	.00044
GRADIENT		.00001	.93856	.02768	-.02975	.08213	.00308	-.02061	.00100	.00007	.00001

RUN NO. 134/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.175	-.191	.59168	6.02236	-.14580	-.48842	-.02802	.04557	-.12821	.00874	-.00136	-.00036
14.756	2.411	.59073	8.30132	.10008	-.50023	.18461	.05158	-.18839	.00974	-.00100	.00038
15.038	4.441	.59089	10.40550	-.06533	-.53208	.35196	.06089	-.21945	.01215	-.00093	.00043
GRADIENT		-.00018	.94319	.02092	-.00920	.08201	.00326	-.01985	.00072	.00010	.00018

RUN NO. 135/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.192	-.063	.59060	6.12957	-.13999	-.48303	.01384	.04599	-.16667	.00984	-.00219	.00012
29.830	2.435	.59017	8.34504	.02612	-.52953	.21809	.05272	-.22062	.01189	-.00210	.00031
29.948	4.393	.59049	10.35230	-.12102	-.48783	.37352	.06235	-.24914	.01466	-.00224	.00078
GRADIENT		-.00003	.94505	.00706	-.00187	.08078	.00363	-.01865	.00107	.00001	.00014

RUN NO. 136/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.708	-.049	.59048	6.08505	-.03050	-.55682	.02789	.04594	-.18139	.00903	-.00232	.00028
44.452	2.450	.59053	8.32281	.06383	-.52600	.23957	.05321	-.23497	.01234	-.00233	.00008
44.557	4.474	.59092	10.41210	-.13420	-.55187	.40090	.06370	-.26404	.01449	-.00239	.00091
GRADIENT		.00009	.95448	-.02059	.00153	.08257	.00389	-.01840	.00121	-.00001	.00013

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA) (RNH013) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000 STAB = 5.000
RUDDER = .000 ELEVON = 5.000
IORB = 6.000 DX = .000
DY = .000 MACH = .600

RUN NO. 137/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.164	-.057	.59060	6.08766	.02680	-.50309	.02730	.04578	-.18463	.00928	-.00234	.00047
50.275	2.433	.59151	8.35052	-.24483	-.52458	.24287	.05304	-.23973	.01213	-.00235	.00079
50.038	4.464	.59112	10.39360	-.15954	-.56778	.40909	.06376	-.26826	.01498	-.00245	.00103
	GRADIENT	.00012	.95078	-.04344	-.01410	.08452	.00394	-.01863	.00126	-.00002	.00012

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA) (RNH014) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000 STAB = 5.000
RUDDER = .000 ELEVON = 5.000
IORB = 6.000 DX = 10.000
DY = .000 MACH = .600

RUN NO. 141/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.324	2.292	.58874	8.14864	9.83387	-.61049	.15300	.04792	-.13516	.00918	.00011	.00029
3.528	4.239	.58797	10.18740	9.90698	-.62378	.31783	.05600	-.16677	.01106	.00014	.00031
	GRADIENT	-.00040	1.04754	.03756	-.00683	.08469	.00415	-.01624	.00097	.00001	.00001

RUN NO. 142/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.340	1.933	.59106	8.03902	9.83965	-.57642	.14170	.04826	-.14767	.00916	-.00005	-.00021
7.097	4.300	.59023	10.18070	9.98195	-.56853	.33603	.05813	-.18984	.01117	.00019	.00028
	GRADIENT	-.00035	.90459	.06010	.00333	.08208	.00417	-.01781	.00085	.00010	.00021

RUN NO. 143/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.137	1.946	.58948	8.07874	9.80002	-.65521	.14810	.04901	-.15947	.00722	.00020	-.00004
9.825	4.403	.58978	10.29950	9.94826	-.61097	.35090	.05986	-.20446	.01057	.00018	.00035
	GRADIENT	.00012	.90381	.06033	.01800	.08254	.00442	-.01831	.00136	.00001	.00016

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (RNH014)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 10.000
DY = .000	MACH = .600

RUN NO. 144/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CD	CL	CLM	CY	CYN	CBL
14.831	1.968	.58834	8.07216	9.88695	-.56380	.04983	.16011	-.18046	.00912	-.00044	.00026
14.775	4.376	.58834	10.27830	9.98489	-.67370	.06097	.36669	-.22623	.01196	-.00046	.00024
	GRADIENT	.00000	.91632	.04068	-.04564	.00463	.08581	-.01901	.00118	-.00001	-.00001

RUN NO. 145/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CD	CL	CLM	CY	CYN	CBL
30.007	1.997	.58824	8.10933	9.83759	-.54460	.05124	.19732	-.21949	.01121	-.00200	.00041
29.873	4.392	.59120	10.31920	9.90959	-.67261	.06297	.39474	-.25593	.01368	-.00189	.00075
	GRADIENT	.00124	.92270	.03006	-.05345	.00490	.08243	-.01522	.00103	.00005	.00014

RUN NO. 146/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CD	CL	CLM	CY	CYN	CBL
44.854	1.998	.59220	8.09096	9.89672	-.59050	.05143	.20786	-.23415	.01045	-.00227	.00087
44.891	4.430	.59175	10.36500	9.89048	-.62597	.06410	.41832	-.27112	.01368	-.00213	.00054
	GRADIENT	-.00019	.93496	-.00257	-.01458	.00521	.08653	-.01520	.00133	.00006	-.00014

RUN NO. 147/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CD	CL	CLM	CY	CYN	CBL
50.387	2.049	.59016	8.14847	9.92864	-.58366	.05210	.22266	-.23840	.01183	-.00235	.00048
50.182	4.431	.59062	10.35190	9.93609	-.63135	.06420	.42020	-.27329	.01395	-.00218	.00115
	GRADIENT	.00019	.92503	.00313	-.02002	.00508	.08293	-.01465	.00089	.00007	.00028

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (RNH015) (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	STAB = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	ELEVON = 5.000
SCALE = .0125		DX = 10.000
		MACH = .600

BETA =	.000
RUDDER =	.000
IORB =	8.000
DY =	.000

RUN NO. 151/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.261	2.410	.59012	10.27640	9.87396	-.64955	.15377	.04744	-.09299	.00918	-.00029	-.00024
7.540	4.362	.58935	12.32900	9.88592	-.65076	.31258	.05498	-.12094	.01223	-.00061	-.00015
	GRADIENT	-.00039	1.05174	.00613	-.00062	.08137	.00386	-.01432	.00156	-.00016	-.00005

RUN NO. 152/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.896	2.043	.58898	10.12980	9.84214	-.69514	.13345	.04717	-.09946	.00909	-.00046	.00042
10.215	4.469	.58898	12.42930	9.88451	-.62920	.33666	.05710	-.14464	.01171	-.00064	.00031
	GRADIENT	-.00000	.94813	.01747	.02719	.08379	.00409	-.01863	.00108	-.00007	-.00004

RUN NO. 153/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.806	2.079	.58834	10.16290	9.83145	-.73897	.15424	.04878	-.13141	.01022	-.00083	-.00028
14.750	4.497	.59019	12.41680	9.90355	-.69922	.35790	.05934	-.17663	.01218	-.00076	-.00017
	GRADIENT	.00076	.93236	.02983	.01644	.08425	.00437	-.01871	.00081	.00003	.00019

RUN NO. 154/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.131	2.049	.58930	10.16660	9.85376	-.59362	.18744	.05068	-.18761	.01114	-.00231	.00091
30.087	4.493	.59112	12.45850	9.88809	-.66197	.38912	.06220	-.23009	.01450	-.00235	.00104
	GRADIENT	.00074	.93764	.01404	-.02796	.08251	.00471	-.01738	.00137	-.00002	.00005

RUN NO. 155/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.833	2.044	.58992	10.11530	9.84286	-.70105	.20689	.05133	-.21452	.01174	-.00259	.00056
45.102	4.460	.58952	12.43770	9.80066	-.69118	.40532	.06320	-.25323	.01468	-.00252	.00133
	GRADIENT	-.00016	.96142	-.01747	.00409	.08215	.00491	-.01602	.00122	.00003	.00032

RUN NO. 156/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.292	2.016	.58875	10.08650	9.95743	-.71722	.20766	.05132	-.21964	.01187	-.00279	.00069
50.425	4.375	.58946	12.34030	9.90189	-.65667	.40762	.06327	-.25720	.01465	-.00260	.00081
	GRADIENT	.00030	.95528	-.02354	.02566	.08475	.00506	-.01592	.00118	.00008	.00005

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (RNH016)   (08 OCT 75)

PARAMETRIC DATA

STAB =	5.000
ELEVON =	5.000
DX =	20.000
MACH =	.600

REFERENCE DATA

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

BETA   =
RUDDER =
IORB   =
DY   = -5.00/ 5.00

RUN NO. 161/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.997	2.461	8.27632	.58993	19.88670	-.85192	.18952	.04837	-.13605	.00808	.00002	.00027
3.241	4.340	10.26730	.59018	19.94590	-.73584	.34375	.05697	-.16141	.01084	.00030	.00038
	GRADIENT	1.06004	.00013	.03152	.06180	.08212	.00458	-.01350	.00147	-.00017	.00006

RUN NO. 162/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.114	2.024	8.10145	.58931	19.88560	-.81205	.16464	.04871	-.14803	.00869	-.00044	.00030
7.110	4.482	10.36010	.58955	19.98690	-.80660	.36794	.05976	-.18998	.01153	-.00046	.00044
	GRADIENT	.91870	.00010	.04120	.00222	.08269	.00449	-.01706	.00116	-.00001	.0C006

RUN NO. 163/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.110	1.989	8.13025	.59022	19.81960	-.76563	.16379	.04952	-.16075	.00794	-.00041	.00025
9.502	4.485	10.34260	.58900	20.00000	-.81234	.37344	.06078	-.20178	.01170	-.00051	.00038
	GRADIENT	.88639	-.00049	.07228	-.01871	.08400	.00451	-.01644	.00151	-.00004	.00005

RUN NO. 164/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.885	2.147	8.26269	.58950	19.89530	-.82928	.19297	.05096	-.18416	.00896	-.00087	.00046
14.669	4.296	10.20060	.58971	20.01710	-.74015	.37005	.06109	-.21886	.01246	-.00098	.03001
	GRADIENT	.90195	.00010	.05669	.04148	.08242	.00472	-.01615	.00163	-.00005	-.00021

RUN NO. 165/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.970	2.006	8.11890	.59006	19.88350	-.80714	.20292	.05169	-.21782	.01073	-.00221	.00060
29.738	4.442	10.34740	.59030	19.95900	-.86086	.40436	.06342	-.25344	.01354	-.00221	.00107
	GRADIENT	.91480	.00010	.03099	-.02205	.08269	.00482	-.01462	.00115	.00000	.00019

RUN NO. 166/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.740	2.001	8.08105	.58963	19.87420	-.75225	.21887	.05215	-.23351	.01120	-.00250	.00066
44.620	4.440	10.34770	.58976	19.88250	-.77199	.42343	.06437	-.26762	.01472	-.00251	.00094
	GRADIENT	.92540	.00005	.00340	-.00810	.08387	.00501	-.01398	.00145	-.00000	.00011

ARC 14-120(CA23B)   747/1 AT1 0251 (CARRIER DATA)

REFERENCE DATA   (RNH016)   (08 OCT 75)

PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 6.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 167/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.218	1.983	8.06786	.58890	19.98550	-.80823	.21505	.05171	-.23622	.01084	-.00247	.00085
50.509	4.478	10.43010	.58886	19.90790	-.77122	.43139	.06495	-.27124	.01497	-.00255	.00118
	GRADIENT	.94658	-.00002	-.03110	-.01483	.08669	.00531	-.01404	.00165	-.00003	.00013

ARC 14-120(CA23B)   747/1 AT1 0251 (CARRIER DATA)

REFERENCE DATA   (RNH017)   (08 OCT 75)

PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 171/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.409	2.320	10.20990	.59052	19.85050	-.73949	.16107	.04618	-.09480	.01036	-.00113	.00010
7.682	4.409	12.38070	.58988	19.85190	-.88774	.33647	.05435	-.11771	.01458	-.00132	.00038
	GRADIENT	1.03942	-.00031	.00067	-.07099	.08399	.00391	-.01097	.00202	-.00009	.00013

RUN NO. 172/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.200	1.989	10.12200	.59146	19.86550	-.83323	.14505	.04622	-.10108	.01056	-.00137	.00041
9.876	4.367	12.28790	.59089	19.96400	-.80872	.33979	.05554	-.13814	.01336	-.00131	.00008
	GRADIENT	.91088	-.00024	.04142	.01030	.08190	.00392	-.01559	.00118	.00003	-.00014

RUN NO. 173/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.980	2.042	10.15750	.59126	19.87800	-.83951	.15711	.04752	-.13116	.01136	-.00168	-.00001
14.840	4.390	12.31590	.59227	19.95010	-.82679	.35369	.05752	-.16875	.01312	-.00144	.00049
	GRADIENT	.91935	.00043	.03071	.00542	.08373	.00421	-.01601	.00075	.00010	.00021

RUN NO. 174/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.168	1.994	10.12010	.59111	19.85060	-.87986	.18256	.04936	-.18554	.01164	-.00275	.00098
29.810	4.397	12.32620	.59085	19.90240	-.75313	.38748	.06071	-.22418	.01623	-.00292	.00079
	GRADIENT	.91819	-.00011	.02156	.05275	.08529	.00472	-.01608	.00191	-.00007	-.00008

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

REFERENCE DATA

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

(RNH017)   (08 OCT 75)

PARAMETRIC DATA

BETA =	STAB = .000	5.000
RUDDER =	ELEVON = .000	5.000
IORB =	DX = 8.000	20.000
DY =	MACH = .000	.600

RUN NO. 175/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.854	2.109	.59147	10.18690	19.84610	-.82726	.21445	.05096	-.21517	.01218	-.00279	.00031
45.244	4.417	.59090	12.41310	19.77770	-.77838	-.0819	.06250	-.24890	.01549	-.00281	.00032
GRADIENT		-.00025	.9646	-.02964	.02118	.08395	.00500	-.01462	.00144	-.00001	.00000

RUN NO. 176/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.344	2.118	.59046	10.19050	19.95560	-.87380	.21247	.05092	-.21960	.01216	-.00293	.00084
50.595	4.352	.59133	12.33830	19.88730	-.81367	.40279	.06205	-.25303	.01457	-.00270	.00096
GRADIENT		-.00039	.96146	-.03057	.02692	.08520	.00498	-.01497	.00108	-.00010	.00005

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

REFERENCE DATA

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

(RNH018)   (08 OCT 75)

PARAMETRIC DATA

BETA =	STAB = .000	5.000
RUDDER =	ELEVON = .000	5.000
IORB =	DX = 6.000	.000
DY =	MACH = 10.000	.600

RUN NO. 181/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.378	2.472	.59115	8.33571	-.12064	9.62659	.16901	.04843	-.15673	.00689	-.00742	.00603
3.590	4.405	.59201	10.37400	-.08127	9.59522	.32107	.05666	-.18628	.00499	-.00687	.00722
GRADIENT		.00045	1.05348	.02036	-.01570	.07863	.00425	-.01528	-.00098	.00028	.00052

RUN NO. 182/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.711	2.009	.59096	8.13160	-.20008	9.51655	.14685	.04779	-.15966	.00781	-.00657	.00524
7.202	4.378	.58954	10.27110	-.01628	9.62298	.33992	.05797	-.20341	.00549	-.00507	.00624
GRADIENT		-.00060	.90293	.07757	.04492	.08149	.00430	-.01847	-.00098	.00063	.00042

RUN NO. 183/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.911	2.005	.59142	8.10379	-.17612	9.57279	.15419	.04837	-.16891	.00814	-.00595	.00494
10.102	4.475	.59168	10.41380	-.06798	9.48457	.35514	.05964	-.21466	.00464	-.00374	.00502
GRADIENT		.00011	.9356	.04378	-.03572	.08136	.00456	-.01852	-.00142	.00089	.00003

ARC 14-120(CA238) 747/1 ATI 0251 (CARRIER DATA)   (RNH018) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = 10.000	MACH = .600

RUN NO. 184/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.973	2.102	.59109	8.20417	-.19876	9.52500	.17475	.04978	-.18604	.00604	-.00417	.00387
14.736	4.362	.59144	10.27250	-.05627	9.52253	.36111	.06015	-.22760	.00349	-.00195	.00446
GRADIENT		.00016	.91486	.06303	-.00109	.08243	.00459	-.01838	-.00112	-.00098	.00026

RUN NO. 185/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.716	2.100	.59179	8.16409	-.17495	9.55144	.19643	.05099	-.21737	.00295	.00032	.00175
29.761	4.335	.59187	10.25280	-.11756	9.58290	.38368	.06228	-.25441	.00077	.00207	.00185
GRADIENT		.00004	.93464	.02568	.01408	.08379	.00505	-.01657	-.00097	.00078	.00004

RUN NO. 186/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.733	1.972	.59095	8.04435	-.07776	9.51284	.20329	.05102	-.22894	.00459	.00028	.00070
44.856	4.308	.59177	10.24170	-.08370	9.47621	.40112	.06273	-.26584	.00478	.00113	.00121
GRADIENT		.00035	.94063	-.00254	-.01568	.08469	.00501	-.01580	.00008	.00036	.00022

RUN NO. 187/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.952	2.021	.59027	8.06519	-.05049	9.55487	.21121	.05101	-.23164	.00617	-.00029	.00124
50.410	4.396	.59076	10.34680	-.12212	9.63862	.41363	.06371	-.26802	.00670	-.00046	.00099
GRADIENT		.00020	.96074	-.03016	.03527	.08524	.00535	-.01532	.00022	.00032	-.00010

C.2

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (RNH019)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA   =   .000   STAB   = 5.000
RUDDER =   .000   ELEVON = 5.000
IORB   = 8.000   DX   = .000
DY   = 10.000   MACH   = .600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	2.405	.59105	7.491	-.19122	9.49085	.14637	.04679	-.12377	.00441	-.00552	.00603
	4.380	.59167	7.844	-.09388	9.47890	.30538	.05461	-.15697	.00108	-.00292	.00708
GRADIENT		.00031		.04929	-.00605	.08051	.00396	-.01681	-.00169	.00132	.00053

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	2.116	.59083	9.818	-.13626	9.42647	.13734	.04639	-.12364	.00431	-.00485	.00562
	4.310	.59198	9.759	-.04223	9.43453	.31310	.05511	-.16629	.00071	-.00202	.00649
GRADIENT		.00052		.04286	.00367	.08012	.00398	-.01944	-.00164	.00129	.00040

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	1.964	.59227	14.864	-.15746	9.48663	.13279	.04663	-.14073	.00351	-.00333	.00542
	4.414	.59154	15.018	-.07712	9.47787	.33095	.05719	-.18907	-.00027	-.00016	.00548
GRADIENT		-.00030		.03279	-.00358	.08088	.00431	-.01973	-.00154	.00129	.00003

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	2.014	.59214	30.225	-.19612	9.39762	.17439	.04950	-.18838	-.00082	.00151	.00218
	4.404	.59179	30.105	-.14130	9.41791	.37311	.06132	-.23277	-.00359	.00367	.00211
GRADIENT		-.00014		.02294	.00849	.08315	.00495	-.01857	-.00116	.00099	-.00003

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	2.014	.59170	44.421	-.16199	9.45087	.19987	.05088	-.21359	.00296	.00132	.00064
	4.380	.59194	45.079	-.23329	9.39875	.39156	.06213	-.25347	.00400	.00192	.00153
GRADIENT		.00010		-.03013	-.02203	.08101	.00475	-.01685	.00044	.00025	.00037

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	MACH	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
	2.002	.59172	50.290	-.10008	9.48992	.20429	.05092	-.21747	.00376	.00060	.00118
	4.323	.59165	50.279	-.12280	9.32532	.39280	.06241	-.25644	.00557	.00114	.00131
GRADIENT		-.00003		-.00978	-.07090	.08119	.00495	-.01678	.00078	.00023	.00005

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (RNH020) (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58831	4.00251	-.04123	-.23247	.01049	.04772	-.20592	.01062	-.00198	-.00006
.58905	6.08127	-.02004	-.45838	.18864	.05304	-.24220	.01235	-.00197	-.00034
.58842	8.18834	-.10046	-.24934	.34994	.06230	-.26878	.01533	-.00181	-.00035
.00003	.99573	-.01381	-.00523	.08080	.00346	-.01498	.00112	.00004	.00007

DZ ALPHAC
2.999 .056
2.972 2.231
3.376 4.258
    GRADIENT

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58699	3.96105	-.11584	-.45749	-.00665	.04702	-.20200	.01008	-.00202	-.00010
.58730	6.30038	-.05714	-.37696	.20981	.05403	-.25278	.01303	-.00200	-.00019
.58692	8.19710	-.06747	-.36099	.36697	.06327	-.27665	.01547	-.00191	-.00002
-.00001	.93375	.01148	.02197	.08262	.00353	-.01670	.00119	.00002	-.00002

DZ ALPHAC
7.356 -.232
7.305 2.422
7.176 4.286
    GRADIENT

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58793	4.02219	-.11365	-.37733	-.00033	.04716	-.20596	.01132	-.00224	-.00020
.58937	6.27375	-.05987	-.30188	.21788	.05436	-.25538	.01405	-.00211	-.00006
.59040	8.32394	-.08454	-.41242	.37887	.06425	-.28167	.01515	-.00182	-.00078
-.00054	.93124	.00698	-.00595	.08243	.00367	-.01656	.00084	.00009	.00021

DZ ALPHAC
9.998 -.190
9.822 2.393
9.715 4.416
    GRADIENT

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58772	4.08571	-.06537	-.37283	.02484	.04739	-.21199	.01023	-.00204	-.00019
.58701	6.34658	-.07447	-.40100	.22998	.05475	-.25967	.01286	-.00199	-.00023
.58680	8.32952	-.05492	-.38851	.39147	.06510	-.28534	.01447	-.00173	-.00070
-.00021	.94105	.00207	-.00381	.08147	.00389	-.01641	.00095	.00007	.00020

DZ ALPHAC
14.608 -.076
14.941 2.433
14.567 4.425
    GRADIENT

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58720	4.00738	-.10009	-.36988	.02917	.04673	-.21290	.01109	-.00260	-.00016
.58738	6.31885	-.11181	-.40752	.24933	.05443	-.26400	.01260	-.00238	-.00046
.58798	8.40410	-.11226	-.35652	.41677	.06571	-.29104	.01444	-.00220	-.00030
.00016	.94646	-.00271	.00215	.08370	.00405	-.01698	.00072	.00009	.00011

DZ ALPHAC
29.742 -.160
29.812 2.421
29.770 4.475
    GRADIENT

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (RNH020)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.518	-.106	.58472	4.02971	.03690	-.36779	.04208	.04615	-.21187	.01047	-.00266	.00042
44.662	2.474	.58704	6.37077	-.16221	-.37945	.26242	.05437	-.26409	.01292	-.00250	.00038
44.473	4.486	.58677	8.39738	-.08498	-.47223	.43421	.06557	-.29191	.01493	-.00242	.00070
	GRADIENT	.00047	.04707	-.02887	-.02190	.08540	.00418	-.01756	.00097	-.00005	.00006

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (RNH021)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 211/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.110	.173	.59032	4.13765	.05551	-.20611	-.06334	.04682	.11822	.00849	-.00135	.00045
3.078	2.255	.58980	6.12604	.06801	-.21105	.10532	.04879	.08119	.01427	-.00158	.00059
3.099	4.353	.58919	8.25467	-.06491	-.16472	.27168	.05429	.04417	.01723	-.00156	.00054
	GRADIENT	-.00027	.99490	-.02885	.00992	.08014	.00179	-.01771	.00209	-.00005	.00002

RUN NO. 212/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.673	-.126	.58936	4.09240	-.18828	-.18525	-.08121	.04657	.12477	.00935	-.00161	.00004
7.105	2.399	.59041	6.25655	.15853	-.09697	.13104	.04882	.07301	.01445	-.00156	.00078
7.181	4.355	.59012	8.27549	-.01836	-.15793	.28617	.05457	.03955	.01661	-.00151	.00049
	GRADIENT	.00018	.92981	.04263	.00747	.08208	.00174	-.01909	.00164	.00002	.00011

RUN NO. 213/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.888	-.253	.58982	3.93747	-.15837	-.11137	-.08627	.04654	.12488	.00863	-.00150	.00024
10.133	2.398	.58989	6.31405	-.06994	-.24594	.13476	.04856	.07304	.01447	-.00149	.00114
9.989	4.413	.59053	8.?7793	-.07054	-.19440	.29597	.05484	.03731	.01604	-.00134	.00058
	GRADIENT	.00015	9.?507	.02227	-.01948	.08199	.00173	-.01881	.00162	-.00003	.00009

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH021)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA			
SREF =	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	STAB =	.000	STAB =	-1.000
LREF =	327.7800 IN.	YMRP = .0000 IN. YC	ELEVON =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	DX =	4.000	DX =	.000
SCALE =	.0125		MACH =	.000	MACH =	.600

BETA =			
RUDDER =			
IORB =			
DY =			

RUN NO. 214/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.808	-.052	.58985	4.11715	-.15706	-.17204	-.05334	.04658	.11953	.00896	-.00146	-.00019
14.795	2.452	.59025	6.35432	.07017	-.23071	.14633	.04884	.07167	.01314	-.00129	.00073
14.946	4.403	.59031	8.36005	-.10634	-.11922	.30240	.05490	.03621	.01659	-.00130	.00118
	GRADIENT	.00011	.94963	.01505	.01022	.07985	.00182	-.01872	.00171	.00004	.00031

RUN NO. 215/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.743	-.137	.58938	4.01695	-.08435	-.19008	-.05161	.04561	.12016	.00888	-.00170	.00051
29.755	2.487	.58988	6.37588	.09984	-.25948	.16654	.04843	.06741	.01456	-.00170	.00082
29.747	4.402	.58886	8.33645	-.09113	-.25259	.32362	.05473	.03291	.01656	-.00159	.00141
	GRADIENT	-.00010	.94850	.00278	-.01453	.08270	.00195	-.01928	.00172	.00002	.00019

RUN NO. 216/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.609	-.114	.58927	4.02468	-.01984	-.25920	-.03842	.04511	.12212	.00772	-.00140	.00080
44.499	2.547	.58928	6.42453	-.11469	-.27177	.18601	.04819	.06671	.01450	-.00164	.00070
44.744	4.315	.58963	8.26444	-.16824	-.15241	.32904	.05431	.03397	.01605	-.00158	.00127
	GRADIENT	.00008	.95288	-.03368	.02181	.08308	.00201	-.01998	.00194	-.00005	.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH022)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA			
SREF =	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	STAB =	.000	STAB =	5.000
LREF =	327.7800 IN.	YMRP = .0000 IN. YC	ELEVON =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	DX =	8.000	DX =	.000
SCALE =	.0125		MACH =	.000	MACH =	.600

BETA =			
RUDDER =			
IORB =			
DY =			

RUN NO. 221/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.175	.180	.58751	8.11954	-.16244	-.11696	-.02845	.04460	-.11142	.00834	-.00090	.00009
7.048	2.374	.58636	10.26950	-.05073	-.21394	.14571	.04893	-.14954	.01028	-.00080	.00046
7.827	4.374	.58649	12.37650	-.15546	-.21015	.30951	.05692	-.18197	.01171	-.00076	.00051
	GRADIENT	-.00025	1.01450	.00246	-.02258	.08057	.00292	-.01683	.00081	.00003	.00010

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)

(RNH022)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 222/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.008	-.095	8.06837	.58707	-.20800	-.19570	-.03663	.04477	-.11814	.00828	-.00125	-.00049
9.794	2.462	10.36610	.58734	-.06785	-.15123	.16424	.05010	-.16828	.01112	-.00123	-.00033
10.168	4.329	12.32470	.58785	-.15342	-.17388	.31496	.05768	-.19643	.01270	-.00088	-.00054
GRADIENT		.95815	.00017	.01487	.00567	.37941	.00287	-.01781	.00100	.00008	.00001

RUN NO. 223/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.875	-.131	8.01212	.58685	-.19848	-.24112	-.02753	.04527	-.13820	.00709	-.00080	-.00015
15.107	2.479	10.42410	.58648	-.11788	-.18222	.18549	.05115	-.19261	.01074	-.00090	-.00040
14.650	4.467	12.40420	.58705	-.05808	-.21425	.34208	.06023	-.22298	.01339	-.00091	-.00041
GRADIENT		.95356	.00003	.03055	.00669	.08044	.00320	-.01856	.00137	-.00002	.00013

RUN NO. 224/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.663	-.130	7.98338	.58892	-.10589	-.11844	.00288	.04584	-.17357	.00975	-.00171	-.00014
30.014	2.540	10.47220	.58798	-.08622	-.13268	.22549	.05297	-.23013	.01261	-.00177	-.00020
30.212	4.360	12.37080	.58896	-.18388	-.19792	.37473	.06205	-.25773	.01448	-.00173	-.00047
GRADIENT		.97369	-.00002	-.01553	-.01678	.08285	.00354	-.01892	.00106	-.00001	.00014

RUN NO. 225/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.608	-.097	8.00014	.58819	-.04496	-.19464	.02323	.04572	-.18928	.00991	-.00223	.00044
44.758	2.520	10.43710	.58859	-.06430	-.22195	.24631	.05313	-.24485	.01282	-.00237	.00102
44.921	4.300	12.28420	.58930	-.18464	-.16737	.39515	.06240	-.27084	.01547	-.00233	.00090
GRADIENT		.97103	.00024	-.02995	.00496	.08463	.00372	-.01875	.00125	-.00002	.00011

RUN NO. 226/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.329	-.122	8.01036	.58776	-.00488	-.17679	.02403	.04574	-.19080	.00994	-.00235	.00021
50.199	2.456	10.37780	.58928	-.00681	-.25490	.23928	.05290	-.24627	.01252	-.00234	.00092
50.308	4.443	12.41190	.58796	-.14747	-.12834	.40942	.06374	-.27527	.01577	-.00236	.00093
GRADIENT		.96199	.00007	-.02976	.00863	.08438	.00389	-.01865	.00126	-.00000	.00016

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH023) (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 231/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.160	.028	.58722	5.96832	-.09825	-.23409	-.02521	.04613	-.13867	.00897	-.00080	-.00018
3.398	2.478	.58690	8.39557	-.15849	.28051	.17253	.05185	-.19200	.01061	-.00084	-.00029
3.235	4.342	.58675	10.26840	-.07571	.33921	.32445	.06000	-.22050	.01280	-.00093	-.00041
	GRADIENT	-.00011	.99639	.00370	-.02409	.08103	.00317	-.01911	.00088	-.00003	-.00014

RUN NO. 232/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.044	-.157	.58689	5.98727	-.15115	-.25234	-.03030	.04621	-.14920	.00824	-.00098	-.00013
7.210	2.438	.58783	8.31873	.02879	.21173	.18257	.05227	-.21040	.01018	-.00086	-.00042
7.208	4.444	.58732	10.35950	-.09076	.26838	.34468	.06170	-.24099	.01178	-.00072	-.00047
	GRADIENT	.00011	.94774	.01582	-.00257	.08152	.00332	-.02012	.00077	-.00005	-.00013

RUN NO. 233/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.588	-.079	.58710	6.07114	-.10027	-.30779	-.01468	.04640	-.16112	.00822	-.00105	-.00004
9.981	2.449	.58742	8.36328	.04293	.30356	.19149	.05280	-.21851	.01045	-.00088	-.00009
9.714	4.418	.58742	10.33770	-.03724	.32484	.35595	.06217	-.24779	.01185	-.00069	-.00048
	GRADIENT	.00007	.94678	.01599	-.00354	.08237	.00346	-.01943	.00081	-.00008	-.00009

RUN NO. 234/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.480	-.060	.58866	6.07355	-.09631	-.27927	-.00018	.04658	-.17626	.00819	-.00110	.00031
14.703	2.510	.58715	8.40095	-.04960	.33790	.21634	.05369	-.23345	.01005	-.00079	.00024
14.839	4.425	.58701	10.36750	-.09613	.31874	.36548	.06306	-.25929	.01224	-.00075	.00064
	GRADIENT	-.00038	.95454	.00318	-.00958	.08168	.00363	-.01872	.00089	-.00008	.00007

RUN NO. 235/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.767	-.083	.58751	6.07234	-.13999	-.25442	.02087	.04629	-.19402	.00963	-.00212	.00058
29.743	2.454	.58780	8.35515	-.00939	.21638	.22651	.05355	-.24750	.01166	-.00186	.00059
29.929	4.441	.58780	10.39440	-.17552	.28857	.39717	.06423	-.27715	.01406	-.00178	.00066
	GRADIENT	.00007	.95279	-.00517	-.00653	.08308	.00391	-.01850	.00097	-.00007	.00002

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH023)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	STAB = 5.000	BETA =
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	ELEVON = .000	RUDDER =
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	DX = 6.000	IORB =
SCALE = .0125		MACH = .600	DY =

RUN NO. 236/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.538	-.030	.58642	6.08798	.01963	-.30457	.03719	.04640	-.20345	.01053	-.00233	-.00019
44.541	2.408	.58834	8.29918	-.12451	-.27163	.24488	.05351	-.25544	.01243	-.00241	-.00088
44.965	4.398	.58775	10.36730	-.16344	-.27768	.41381	.06421	-.28398	.01499	-.00226	-.00083
GRADIENT		.00032	.96437	-.04201	.00635	.08508	.00398	-.01831	.00100	.00001	.00024

RUN NO. 237/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.951	-.140	.58726	5.98166	.07546	-.38741	.02722	.04599	-.20195	.01059	-.00252	-.00043
49.970	2.539	.58814	8.41739	-.16393	-.35672	.25555	.05409	-.25964	.01262	-.00240	-.00083
50.050	4.426	.58821	10.35530	-.17706	-.34245	.41604	.06448	-.28608	.01467	-.00216	-.00062
GRADIENT		.00022	.95450	-.05759	.00995	.08515	.00398	-.01863	.00099	.00008	.00005

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH024)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	STAB = -1.000	BETA =
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	ELEVON = .000	RUDDER =
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	DX = 6.000	IORB =
SCALE = .0125		MACH = .600	DY =

RUN NO. 241/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.790	.104	.58652	5.92147	-.15532	-.03671	-.10177	.04472	.18137	.00694	-.00108	.00033
3.147	2.378	.58700	8.27250	-.05770	-.03732	.09081	.04665	.13445	.01264	-.00148	.00018
3.235	4.382	.58753	10.30860	-.08859	-.02095	.24911	.05139	.09984	.01544	-.00129	.00076
GRADIENT		.00024	1.02571	.01621	.00360	.08208	.00154	-.01909	.00200	-.00005	.00010

RUN NO. 242/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.214	-.107	.58739	6.05422	-.15883	-.13415	-.10083	.04505	.17850	.00757	-.00131	.00003
7.169	2.445	.58740	8.32441	-.04069	-.07016	.10612	.04715	.11955	.01178	-.00133	.00067
7.223	4.433	.58743	10.35700	-.07466	-.00760	.26581	.05253	.08537	.01579	-.00127	.00082
GRADIENT		.00001	.94519	.02130	.02775	.08079	.00161	-.02064	.00180	.00001	.00018

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA) (RNH024) (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = 5.00	STAB = .000	= -1.000
RUDDER =	ELEVON = .000	= .000
IORB =	DX = 6.000	= .000
DY =	MACH = .000	= .500

RUN NO. 243/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.900	-.036	.58773	6.13824	-.18639	-.04378	-.08434	.04510	.16852	.00636	-.00100	.00047
9.833	2.466	.58745	8.36642	-.00386	-.04115	.11696	.04735	.11195	.01200	-.00119	.00083
9.797	4.354	.58776	10.29090	-.10428	-.09073	.26424	.05252	.07969	.01454	-.00111	.00098
	GRADIENT	.00000	.94311	.02173	-.01008	.07947	.00165	-.02036	.00188	-.00003	.00012

RUN NO. 244/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.827	-.163	.58789	6.00907	-.12109	-.00497	-.08892	.04520	.16151	.00644	-.00116	.00044
14.725	2.499	.58804	8.38433	.06072	-.02456	.13198	.04765	.10173	.01127	-.00097	.00082
14.404	4.287	.58739	10.19090	-.02626	.04104	.27390	.05293	.07118	.01484	-.00110	.00068
	GRADIENT	-.00010	.93614	.02495	.00897	.08165	.00167	-.02047	.00188	-.00002	.00006

RUN NO. 245/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.598	-.049	.58755	6.07204	-.10332	-.04473	-.05359	.04539	.14155	.00766	-.00147	.00005
29.897	2.432	.58755	8.35352	-.03171	-.01269	.14830	.04770	.09113	.01278	-.00152	.00086
29.731	4.487	.58751	10.42190	-.14258	.06341	.31514	.05433	.05330	.01594	-.00170	.00093
	GRADIENT	-.00001	.95764	-.00737	-.00354	.08129	.00193	-.01949	.00183	-.00005	.00020

RUN NO. 246/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.528	-.131	.58586	5.98327	.01971	-.05457	-.05172	.04491	.13885	.00776	-.00161	.00041
44.796	2.390	.58578	8.30857	-.16445	-.09489	.16258	.04753	.08478	.01432	-.00189	.00054
44.981	4.445	.58714	10.42130	-.16873	.18341	.32867	.05407	.04644	.01680	-.00197	.00111
	GRADIENT	.00027	.96813	-.04237	-.02770	.08320	.00197	-.02024	.00200	-.00008	.00015

RUN NO. 247/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.996	-.101	.58611	6.01605	.05285	-.02120	-.04505	.04501	.13586	.00856	-.00175	.00010
50.084	2.534	.58686	8.32955	-.20397	-.03470	.17791	.04786	.08023	.01444	-.00193	.00047
50.059	4.394	.58763	10.32850	-.10617	-.10654	.33087	.05397	.04657	.01610	-.00183	.00098
	GRADIENT	.00034	.95645	-.03952	-.01806	.08369	.00193	-.01995	.00171	-.00002	.00019

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (RNH025) (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = .000		
IORB = 8.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.209	.039	.58717	8.00091	-.09563	.11623	-.12186	.04243	.21698	.00714	-.00168	.00064
7.216	2.367	.58827	10.24160	-.08863	.00464	.07079	.04424	.17498	.00992	-.00133	.00126
7.326	4.353	.58735	12.30340	-.05354	-.00023	.22079	.04884	.14784	.01428	-.00159	.00092
GRADIENT		.00005	.99623	.00956	-.02759	.07951	.00146	-.01608	.00164	-.00003	.00007

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.339	-.027	.58781	8.05788	-.08374	.10359	-.11125	.04324	.20961	.00617	-.00148	.00041
10.040	2.372	.58810	10.31470	-.03608	.05505	.07158	.04455	.16486	.00941	-.00129	.00102
10.061	4.478	.58756	12.45100	-.07388	.02201	.24542	.05016	.13120	.01546	-.00169	.00076
GRADIENT		-.00005	.97434	.00260	-.01816	.07910	.00151	-.01743	.00205	-.00004	.00008

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.643	-.013	.58691	8.10708	-.11966	.04505	-.09725	.04404	.19053	.00667	-.00140	.00033
15.082	2.543	.58837	10.48700	-.06077	.02168	.10901	.04615	.14051	.01079	-.00131	.00056
14.801	4.374	.58726	12.33140	-.09089	-.03326	.25149	.05071	.11376	.01325	-.00093	.00160
GRADIENT		.00011	.96086	.00761	-.01730	.07957	.00148	-.01763	.00151	-.00010	.00028

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.827	-.162	.58717	7.96542	-.13995	.04759	-.08432	.04448	.16487	.00714	-.00146	.00024
30.228	2.450	.58826	10.41380	-.12322	.00837	.2569	.04658	.11408	.01208	-.00147	.00110
30.232	4.437	.58945	12.44160	-.19907	-.04902	.28952	.05252	.07927	.01514	-.00143	.00133
GRADIENT		.00029	.97138	-.01187	-.02070	.08124	.00170	-.01865	.00175	-.00001	.00024

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.600	-.132	.58877	7.96473	-.06606	-.01682	-.06768	.04440	.15230	.00798	-.00178	.00032
45.018	2.364	.58815	10.31080	-.11022	-.01804	.14415	.04676	.10027	.01370	-.00195	.00080
44.806	4.412	.58767	12.38870	-.19317	-.00796	.30707	.05291	.06419	.01592	-.00186	.00133
GRADIENT		-.00024	.97236	-.02761	.00238	.08256	.00184	-.01944	.00177	-.00002	.00022

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH025)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
49.823	-.233	7.83733	.58747	.02097	-.07201	.04425	-.05236	.15222	.00590	-.00144	.00061
50.763	2.449	10.43110	.58807	-.09531	.15894	.04678	.03018	.09627	.01240	-.00166	.00132
50.761	4.339	12.37400	.58684	-.20688	.30917	.05282	.07273	.06192	.01670	-.00202	.00116
GRADIENT			-.00011	-.04939	.08355	.00181	.02759	-.01982	.00237	-.00012	.00013

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (RNH027)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 261/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
7.310	.046	8.02000	.58593	-.10996	-.03529	.04409	.07740	-.09928	.00698	-.00105	.00040
7.309	2.283	10.17530	.58706	-.10062	.15226	.04904	.09110	-.14415	.01072	-.00116	-.00002
7.865	4.288	12.29900	.58535	-.14232	.31003	.05657	.04415	-.17512	.01089	-.00094	.00098
GRADIENT			-.00011	-.00740	.08145	.00293	-.00757	-.01792	.00094	.00005	.00013

RUN NO. 262/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
9.835	-.171	7.97637	.58650	-.17277	-.04409	.04447	.10647	-.10462	.00815	-.00126	-.00009
9.901	2.437	10.34850	.58620	-.05317	.16781	.04981	.03987	-.15931	.00936	-.00099	-.00090
9.652	4.384	12.31440	.58597	-.08957	.32133	.05794	.06373	-.18979	.01213	-.00094	-.00078
GRADIENT			-.00012	.01979	.08028	.00291	-.01027	-.01882	.00085	.00007	.00020

RUN NO. 263/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
14.936	-.143	8.01648	.58646	-.19035	-.02627	.04498	.05635	-.12749	.00904	-.00156	-.00020
14.990	2.462	10.39360	.58598	-.08235	.18739	.05111	.03567	-.18452	.01024	-.00156	-.00041
15.447	4.479	12.50860	.58597	-.16821	.34830	.06013	.04642	-.21549	.01366	-.00146	-.00072
GRADIENT			-.00009	.00653	.08108	.00323	-.00242	-.01938	.00097	.00002	.00020

(RNH027)   (08 OCT 75)

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 264/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.711	-.161	.58652	7.95935	-.14677	.03516	.00060	.04518	-.16413	.00993	-.00216	-.00001
29.841	2.529	.58531	10.44460	-.10279	.05502	.21999	.05230	-.22170	.01176	-.00201	-.00085
30.092	4.385	.58590	12.37600	-.13616	.01473	.37478	.06192	-.25042	.01377	-.00170	-.00069
GRADIENT		-.00016	.96822	.00334	-.00364	.08226	.00361	-.01916	.00083	.00010	.00017

RUN NO. 265/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.673	-.113	.58533	7.98864	-.08756	.00438	.02800	.04545	-.18314	.01090	-.00267	-.00008
44.791	2.534	.58607	10.45630	-.09962	.06035	.24526	.05270	-.23879	.01335	-.00277	-.00084
44.852	4.379	.58533	12.35100	-.18554	-.02875	.39876	.06244	-.26591	.01420	-.00227	-.00094
GRADIENT		.00002	.96849	-.02062	-.00540	.08251	.00371	-.01861	.00075	.00008	.00023

RUN NO. 266/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.205	-.137	.58469	7.98867	.06098	.04605	.01278	.04467	-.18067	.01027	-.00275	.00012
50.115	2.437	.58577	10.34730	-.13316	.05734	.23699	.05232	-.24068	.01361	-.00285	.00059
50.310	4.427	.58519	12.39550	-.16478	.07898	.41124	.06330	-.27014	.01463	-.00238	.00069
GRADIENT		.00012	.96322	-.05071	.00708	.08729	.00403	-.01978	.00097	.00008	.00013

(RNH028)   (08 OCT 75)

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = 10.000
DY = .000	MACH = .600

RUN NO. 281/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.140	2.460	.58657	8.29095	9.88371	.00383	.18345	.05086	-.18476	.01162	-.00172	.00028
3.154	4.481	.58709	10.38510	9.89607	.14029	.35199	.06019	-.21504	.01322	-.00151	.00061
GRADIENT		.00026	1.03598	.00611	.06751	.08337	.00462	-.01498	.00079	.00010	.00017

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (RNH028)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	5.000
ELEVON =	.000
DX =	10.000
MACH =	.600

RUN NO. 282/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
7.424	2.022	.58775	8.14688	9.89112	.16054	.02441	.04991	-.19071	.01086	-.00147	.00024
7.204	4.410	.58829	10.29600	10.03350	.36105	.03213	.06078	-.23300	.01285	-.00118	.00031
	GRADIENT	.00023	.90003	.05963	.08397	.00324	.00455	-.01771	.00083	.00012	.00003

RUN NO. 283/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
9.851	2.068	.58638	8.17312	9.90835	.17325	-.00656	.05047	-.20156	.00992	-.00118	.00019
9.970	4.488	.58659	10.40820	9.98861	.37085	.07583	.06172	-.24152	.01207	-.00090	.00053
	GRADIENT	.00009	.92385	.03317	.08168	.03405	.00465	-.01652	.00089	.00012	.00014

RUN NO. 284/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
14.671	2.026	.58696	8.11471	9.91614	.18196	.07964	.05091	-.21491	.01049	-.00100	.00007
14.337	4.481	.58697	10.33430	10.04080	.38011	.01744	.06251	-.25353	.01089	-.00059	.00059
	GRADIENT	.00001	.90410	.05078	.08071	-.02534	.00473	-.01573	.00016	.00017	.00021

RUN NO. 285/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
29.878	2.180	.58699	8.28611	9.85463	.21268	.05921	.05182	-.23919	.01166	-.00212	.00075
29.674	4.515	.58714	10.41500	9.93482	.40789	.06578	.06406	-.27401	.01403	-.00185	.00060
	GRADIENT	.00006	.91162	.03434	.08359	.00282	.00524	-.01491	.00102	.00011	-.00007

RUN NO. 286/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
44.780	2.093	.58656	8.18310	9.89025	.21699	-.01014	.05151	-.24661	.01239	-.00263	.00093
45.100	4.521	.58637	10.47830	9.85318	.42038	.09425	.06449	-.28080	.01506	-.00245	.00126
	GRADIENT	-.00008	.94521	-.01527	.08376	.04299	.00534	-.01408	.00110	.00008	.00014

RUN NO. 287/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

BETA = ; RUDDER = ; IORB = ; DY =   5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	DY	CD	CLM	CY	CYN	CBL
50.200	2.061	.58636	8.14261	9.95888	.22147	.05490	.05152	-.24914	.01292	-.00272	.00073
50.258	4.539	.58679	10.46300	9.91845	.43392	.01787	.06458	-.28245	.01469	-.00228	.00117
	GRADIENT	.00018	.93625	-.01631	.08572	-.01494	.00527	-.01344	.00071	.00018	.00018

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

(RNH029)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = 10.000
DY = .000	MACH = .600

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.274	2.465	.58846	10.34390	9.93909	.03727	.17081	.04898	-.14367	.01091	-.00143	.00042
7.616	4.442	.58807	12.41160	9.89734	.03280	.33408	.05752	-.17046	.01379	-.00137	.00043
	GRADIENT	-.00020	1.04555	-.02111	-.00226	.08256	.00432	-.01355	.00146	.00003	.00001

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.037	2.057	.58779	10.16860	9.84159	-.01357	.14656	.04824	-.14754	.01039	-.00142	.00068
10.105	4.486	.58837	12.43630	9.91158	.06365	.34631	.05869	-.18727	.01258	-.00108	.00083
	GRADIENT	-.00024	.93338	.02881	.03178	.08221	.00430	-.01635	.00090	.00014	.00006

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.073	2.020	.58818	10.13820	9.83260	.09566	.15828	.04928	-.17107	.00935	-.00094	.00015
14.864	4.412	.58829	12.34200	9.91415	.05812	.35290	.05951	-.20976	.01141	-.00073	.00063
	GRADIENT	.00005	.92115	.03409	-.01569	.08135	.00427	-.01617	.00086	.00009	.00020

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.231	2.128	.58847	10.25250	9.79538	.05260	.19833	.05083	-.21457	.01145	-.00177	.00021
29.953	4.510	.58839	12.45730	9.85045	.04924	.39123	.06250	-.25027	.01349	-.00159	.00064
	GRADIENT	-.00003	.92581	.02312	-.00141	.08100	.00490	-.01499	.00086	.00008	.00018

RUN NO. 295/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.559	2.087	.58898	10.13000	9.88695	.06428	.20947	.05126	-.23173	.01259	-.00261	.00052
45.001	4.446	.58942	12.41470	9.82664	.13076	.40818	.06297	-.26570	.01545	-.00250	.00073
	GRADIENT	.00019	.96844	-.02556	.02818	.08423	.00497	-.01440	.00121	.00005	.00009

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.108	2.027	.58684	10.07900	9.99054	.05093	.20709	.05073	-.23355	.01233	-.00268	.00096
50.709	4.547	.58697	12.54340	9.89004	.07529	.41781	.06352	-.26991	.01416	-.00220	.00152
	GRADIENT	.00005	.97795	-.03988	.00967	.08362	.00508	-.01443	.00073	.00019	.00022

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (RNH030)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB	=	.000	5.000
ELEVON	=	.000	.000
DX	=	8.000	20.000
MACH	=	.000	.600

BETA	=
RUDDER	=
IORB	=
DY	=

RUN NO. 301/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58572	10.34670	19.88150
.58623	12.31920	19.89100
.00027	1.04919	.00505

DZ	ALPHAC	
7.146	2.474	
7.541	4.355	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
.03398	.18066	.04865	-.14392	.01137	-.00164	.00098
.03786	.33711	.05663	-.16495	.01354	-.00151	.00113
.00206	.08322	.00424	-.01118	.00116	.00007	.00008

RUN NO. 302/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58701	10.13010	19.84880
.58644	12.43730	19.90010
-.00023	.93258	.02074

DZ	ALPHAC	
10.020	2.021	
10.077	4.495	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
.04975	.15720	.04799	-.14904	.01073	-.00150	.00071
.02053	.35641	.05833	-.18466	.01313	-.00131	.00085
-.01181	.08052	.00418	-.01440	.00097	.00008	.00006

RUN NO. 303/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58581	10.26770	19.84270
.58686	12.34570	19.92050
.00046	.91607	.03430

DZ	ALPHAC	
14.887	2.172	
14.608	4.441	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
.03141	.17727	.04915	-.17486	.01029	-.00125	.00048
.02009	.36229	.05939	-.20755	.01249	-.00104	.00095
-.00499	.08157	.00451	-.01441	.00097	.00009	.00020

RUN NO. 304/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58823	10.05950	19.88270
.58519	12.46690	19.93250
-.00116	.92058	.01904

DZ	ALPHAC	
30.123	1.934	
29.781	4.549	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
.04308	.18238	.04920	-.21110	.01024	-.00183	.00063
.09516	.40260	.06231	-.24934	.01372	-.00169	.00146
.01991	.08421	.00501	-.01462	.00133	.00006	.00032

RUN NO. 305/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58767	10.16970	19.86300
.58708	12.35030	19.85900
-.00026	.93477	-.00171

DZ	ALPHAC	
44.889	2.080	
44.724	4.413	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
.06580	.21673	.05114	-.23234	.01213	-.00259	.00053
.09727	.39819	.06217	-.26376	.01411	-.00233	.00110
.01349	.07779	.00473	-.01347	.00085	.00011	.00025

RUN NO. 306/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX
.58729	10.15600	19.92850
.58775	12.37800	19.89900
.00020	.94608	-.01256

DZ	ALPHAC	
50.425	2.067	
50.408	4.416	GRADIENT

DY	CL	CD	CLM	CY	CYN	CBL
-.00602	.21223	.05077	-.23614	.01197	-.00271	.00116
.08025	.41326	.06280	-.26768	.01535	-.00255	.00091
.03673	.08559	.00512	-.01343	.00144	.00007	-.00011

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (RNH031)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB = 5.000	BETA =
ELEVON = .000	RUDDER =
DX = 20.000	IORB =
MACH = .600	DY =

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.440	.58609	19.87130	.19329	.05068	-.20251	.01070	-.00154	.00080
4.374	.58715	19.92830	.36175	.06006	-.22966	.01211	-.00120	.00049
GRADIENT	.00054	.02947	.08708	.00485	-.01404	.00073	.00018	-.00016

DZ	ALPHAO	DY
7.139	8.31512	.05947
7.034	10.27020	.09448
	1.01056	.01809

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
1.989	.58702	19.90690	.16921	.04952	-.20084	.01027	-.00146	.00053
4.549	.58632	19.96030	.38573	.06189	-.24076	.01243	-.00099	.00090
GRADIENT	-.00027	.02086	.08457	.00483	-.01559	.00084	.00018	.00014

DZ	ALPHAO	DY
9.707	8.07854	.06734
9.890	10.45100	.05123
	.92663	-.00629

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
1.961	.58709	19.86250	.17433	.05003	-.21485	.00993	-.00117	.00119
4.524	.58711	19.96860	.39342	.06279	-.25393	.01239	-.00085	.00046
GRADIENT	.00001	.04140	.08548	.00498	-.01525	.00096	.00012	-.00028

DZ	ALPHAO	DY
14.857	8.08432	.07407
14.654	10.40250	.01904
	.90449	-.02147

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
1.982	.58708	19.93210	.19799	.05114	-.23905	.01222	-.00235	.00062
4.262	.58717	19.97520	.39002	.06242	-.27215	.01244	-.00172	.00097
GRADIENT	.00004	.01890	.08422	.00495	-.01452	.00010	.00028	.00015

DZ	ALPHAO	DY
29.665	8.07297	.07184
29.802	10.17670	.06091
	.92264	-.00479

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
1.970	.58721	19.92050	.21303	.05143	-.24740	.01186	-.00253	.00039
4.370	.58687	19.89040	.41301	.06348	-.28107	.01612	-.00265	.00102
GRADIENT	-.00014	-.01254	.08334	.00502	-.01404	.00178	-.00005	.00027

DZ	ALPHAO	DY
44.676	8.03821	.09661
44.732	10.28860	.06355
	.93796	-.01378

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.003	.58699	20.01850	.21472	.05142	-.24963	.01270	-.00268	.00079
4.371	.58709	19.99160	.41700	.06351	-.28269	.01485	-.00239	.00115
GRADIENT	.00004	-.01136	.08541	.00510	-.01396	.00091	.00012	.00015

DZ	ALPHAO	DY
50.207	8.08618	.01577
50.098	10.27300	.02241
	.92545	.00280

ARC 14-120(CA23B)　747/1 AT1 O3S1 (CARRIER DATA)　　　(RNH032)　(08 OCT 75)

REFERENCE DATA

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

BETA =	
RUDDER =	
IORB =	
DY =	

PARAMETRIC DATA

STAB =	.000	5.000
ELEVON =	.000	.000
DX =	6.000	.000
MACH =	10.000	.600

RUN NO. 321/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.24764	.58661	-.07736	10.15720	.17002	.05049	-.19755	.00425	-.00524	-.00518
10.25180	.58746	-.08334	10.05880	.32833	.05915	-.22798	.00287	-.00486	-.00649
1.03284	.00044	-.00308	-.05071	.08159	.00446	-.01566	-.00071	.00019	-.00067

DZ	ALPHAC
3.217	2.384
3.310	4.324
	GRADIENT

RUN NO. 322/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.08363	.58731	-.11409	10.15740	.15579	.04962	-.19890	.00503	-.00421	-.00413
10.31420	.58718	-.03860	10.16020	.34877	.06045	-.24257	.00231	-.00241	-.00557
.93692	-.00005	.03171	.00118	.08106	.00455	-.01834	-.00114	.00076	-.00061

DZ	ALPHAC
7.247	1.999
7.563	4.379
	GRADIENT

RUN NO. 323/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.10072	.58740	-.16247	10.08520	.15782	.04975	-.20628	.00498	-.00330	-.00409
10.27970	.58733	-.02661	10.13390	.35111	.06099	-.24753	.00187	-.00153	-.00491
.91286	-.00003	.05691	.02040	.08098	.00471	-.01728	-.00130	.00074	-.00034

DZ	ALPHAC
10.032	1.980
9.896	4.367
	GRADIENT

RUN NO. 324/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.18816	.58735	-.19638	10.14070	.17690	.05062	-.21986	.00389	-.00171	-.00309
10.19140	.58780	-.07071	10.08630	.35662	.06126	-.25667	.00145	-.00002	-.00318
.91066	.00021	.05713	-.02473	.08170	.00484	-.01673	-.00111	.00079	-.00004

DZ	ALPHAC
15.217	2.049
15.047	4.248
	GRADIENT

RUN NO. 325/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.07435	.58747	-.18575	10.15200	.19508	.05101	-.23483	.00516	-.00001	-.00158
10.22660	.58772	-.12371	10.08960	.38699	.06261	-.27318	.00303	.00160	-.00181
.92552	.00011	.02668	-.02683	.08253	.00499	-.01649	-.00091	.00069	-.00010

DZ	ALPHAC
29.998	1.976
29.890	4.301
	GRADIENT

RUN NO. 326/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.02243	.58755	-.07292	10.12630	.20651	.05086	-.24268	.00703	-.00053	-.00132
10.27170	.58817	-.12245	10.14780	.40294	.06322	-.27851	.00729	.00033	-.00160
.95039	.00026	-.02093	.00908	.08300	.00522	-.01514	.00011	.00037	-.00012

DZ	ALPHAC
44.648	1.958
44.989	4.325
	GRADIENT

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (RNH032)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000 STAB = 5.000
RUDDER =	.000 ELEVON = .000
IORB =	6.000 DX = .000
DY =	10.000 MACH = .600

RUN NO. 327/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.978	1.969	.58820	8.02344	-.02053	10.13650	.21371	.05131	-.24538	.00866	-.00088	.00081
50.163	4.264	.58920	10.19110	-.04478	10.15950	.39983	.06280	-.27995	.00854	-.00011	.00157
	GRADIENT	.00044	.94453	-.01056	.00998	.08110	.00501	-.01506	-.00005	-.00034	.00033

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (RNH033)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000 STAB = 5.000
RUDDER =	.000 ELEVON = .000
IORB =	8.000 DX = .000
DY =	10.000 MACH = .600

RUN NO. 331/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	2.445	.58922	10.34440	-.06667	10.07820	.16246	.04858	-.16814	.00203	-.00342	.00539
7.613	4.292	.58876	12.27760	-.14319	10.09130	.30762	.05619	-.19812	-.00162	.00125	.00622
	GRADIENT	-.00025	1.04761	-.04147	.00710	.07866	.00412	-.01608	-.00198	.00118	.00045

RUN NO. 332/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.263	1.907	.58952	10.03580	-.22873	10.09230	.12172	.04699	-.16301	.00210	-.00280	.00548
9.859	4.322	.58910	12.24310	-.09624	10.08730	.31936	.05715	-.20631	-.00215	-.00007	.00577
	GRADIENT	-.00017	.91395	.05486	-.00207	.08184	.00421	-.01793	-.00176	.00113	.00012

RUN NO. 333/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.012	1.933	.58891	10.03310	-.19577	10.12510	.14139	.04803	-.18188	.00143	-.00119	.00381
14.957	4.327	.59912	12.27130	-.10228	10.09060	.33713	.05874	-.22345	-.00354	.00187	.00400
	GRADIENT	.00009	.93488	.03905	-.01441	.08176	.00447	-.01736	-.00208	.00128	.00008

RUN NO. 334/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.834	1.958	.58943	10.02860	-.19612	10.04890	.17488	.04966	-.21448	.00101	-.00151	.00184
29.957	4.352	.58888	12.31310	-.15854	10.07440	.37634	.06162	-.25418	-.00141	-.00373	.00174

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)   (RNH033)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 335/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.819	1.871	.58683	9.93220	-.17406	10.09900	.19100	.05048	-.22877	.00515	.00045	.00099
45.000	4.278	.58661	12.24790	-.20324	10.09270	.38752	.06238	-.26698	.00551	.00129	.00168
	GRADIENT	-.00009	.96232	-.01213	-.00262	.08167	.00495	-.01588	.00015	.00035	.00029

RUN NO. 336/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.002	1.913	.58788	9.94862	-.10542	10.11940	.19477	.05033	-.23210	.00784	-.00037	.00112
50.443	4.260	.58739	12.23090	-.17171	10.08420	.39026	.06201	-.26887	.00739	.00053	.00192
	GRADIENT	-.00021	.97225	-.02824	-.01500	.08328	.00498	-.01566	-.00019	.00038	.00034

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)   (RNH034)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 341/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
1.515	-.031	.58648	5.90009	-.06742	.00578	-.04941	.04580	-.12412	.01337	-.00333	-.00008
1.466	2.266	.58717	8.09199	-.04621	.02682	.14793	.05055	-.17441	.01463	-.00299	-.00055
1.364	4.259	.58774	10.13540	-.02054	-.00171	.30740	.05895	-.20966	.01637	-.00286	-.00063
	GRADIENT	.00029	.98649	.01088	-.00147	.08325	.00304	-.01999	.00069	.00011	.00017

RUN NO. 342/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.218	-.127	.58815	6.04215	-.10713	-.00757	-.04746	.04548	-.12263	.01174	-.00329	.00056
2.877	2.324	.58765	8.16733	-.14690	-.06245	.15886	.05102	-.18404	.01460	-.00306	.00054
3.380	4.353	.58723	10.29310	-.04005	-.00326	.32087	.06000	-.21888	.01611	-.00281	.00047
	GRADIENT	-.00020	.94601	.01801	.00016	.08228	.00321	-.02160	.00098	.00011	-.00002

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (RNH034)   (08 OCT 75)

REFERENCE DATA

SREF =	5500.0000 SQ.FT.	XMRP =	1333.9000 IN. XC
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.400	.58717	5.90381	-.285	-.13205	-.02328	-.04297	.04590	-.14010	.01182	-.00303	-.00020
7.390	.58697	8.21305	2.312	.07014	-.04725	.17326	.05172	-.20141	.01352	-.00264	-.00058
7.046	.58774	10.11280	4.212	-.00640	-.04352	.32465	.06015	-.23194	.01445	-.00226	-.00071
GRADIENT	.00012	.93327		.03090	-.00478	.08185	.00311	-.02061	.00059	.00017	.00021

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.858	.58774	5.93582	-.243	-.13020	-.02468	-.03164	.04592	-.14784	.01123	-.00280	-.00021
9.870	.58683	8.23296	2.334	.06279	-.03964	.17916	.05192	-.20917	.01291	-.00248	-.00049
9.840	.58677	10.19170	4.253	-.05789	-.06921	.33463	.06093	-.23973	.01393	-.00198	-.00069
GRADIENT	-.00022	.94365		.01935	-.00968	.08150	.00328	-.02063	.00060	.00018	.00011

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.745	.58763	5.91142	-.254	-.11810	-.04966	-.02562	.04591	-.16048	.01036	-.00233	-.00008
14.663	.58672	8.21363	2.332	.06055	-.05815	.19437	.05245	-.22071	.01283	-.00198	-.00014
14.715	.58738	10.17930	4.248	-.07864	-.07945	.34947	.06169	-.24990	.01400	-.00152	-.00073
GRADIENT	-.00007	.94469		.01218	-.00643	.08341	.00345	-.02006	.00082	.00018	.00017

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.743	.58604	5.88621	-.267	-.08203	-.00339	-.00276	.04594	-.18075	.01248	-.00293	-.00035
29.911	.58747	8.27416	2.360	.02282	-.04821	.22081	.05296	-.24053	.01384	-.00266	-.00051
29.627	.58710	10.18430	4.268	-.09565	-.10290	.38015	.06277	-.26954	.01421	-.00195	-.00030
GRADIENT	.00025	.94540		-.00039	-.02165	.08447	.00365	-.01977	.00039	.00021	.00015

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.607	.58716	5.90152	-.235	-.00966	-.05370	.01604	.04572	-.19234	.01292	-.00323	-.00016
44.784	.58716	8.25624	2.345	-.13594	-.05628	.23662	.05278	-.24862	.01335	-.00297	-.00083
44.631	.58767	10.22080	4.291	-.15327	.01683	.39906	.06300	-.27738	.01504	-.00263	-.00083
GRADIENT	.00011	.95215		-.03264	.01471	.08468	.00376	-.01895	.00045	.00013	.00023

ARC 14-120(CA23B) 747/1 ATI O3SI (CARRIER DATA)   (RNHO34)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	.000	
ELEVON =	.000	
DX =	6.000	
MACH =	.000	

BETA =	-5.00/	5.00
RUDDER =		
IORB =		
DY =		

STAB = 5.000
ELEVON = .000
DX = .000
MACH = .600

RUN NO. 348/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.960	-.239	.58785	5.88468	.08819	.01479	.01551	.04531	-.19230	.01105	-.00299	.00042
50.084	2.361	.58817	8.25858	-.16437	-.02815	.23899	.05259	-.25094	.01350	-.00286	.00091
50.051	4.269	.58761	10.19200	-.16268	-.05749	.40272	.06265	-.27941	.01518	-.00257	.00142
	GRADIENT	-.00004	.95296	-.05808	-.01606	.08589	.00378	-.01951	.00092	.00009	.00022

RUN NO. 349/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
61.655	-.279	.58759	5.85348	.11708	-.13288	.01694	.04521	-.19273	.01090	-.00302	.00045
61.629	2.289	.58818	8.18336	-.19266	.00830	.24251	.05242	-.25337	.01360	-.00280	.00049
61.640	4.275	.58756	10.20200	-.16063	-.09148	.40928	.06295	-.28063	.01439	-.00228	.00113
	GRADIENT	.00000	.95272	-.06384	.01129	.08624	.00385	-.01951	.00078	.00016	.00014

ARC 14-120(CA23B) 747/1 ATI O3SI (CARRIER DATA)   (RNHO35)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	.000	
ELEVON =	.000	
DX =	4.000	
MACH =	.000	

BETA =	-5.00/	5.00
RUDDER =		
IORB =		
DY =		

STAB = 5.000
ELEVON = .000
DX = .000
MACH = .600

RUN NO. 351/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.392	.007	.58697	3.99746	-.07524	.05360	-.00122	.04772	-.19977	.01157	-.00206	-.00044
3.273	2.270	.58780	6.14693	-.03598	.12459	.18857	.05341	-.23977	.01177	-.00168	-.00037
3.233	4.244	.58795	8.16058	-.04991	.01675	.35002	.06254	-.26866	.01356	-.00131	-.00041
	GRADIENT	.00023	.98179	.00625	-.00773	.08292	.00347	-.01630	.00046	.00018	.00020

RUN NO. 352/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.633	-.212	.58702	4.00651	-.18854	.04314	-.00517	.04732	-.19786	.01145	-.00214	-.00042
7.582	2.387	.58736	6.30510	.08734	.06432	.20924	.05383	-.24730	.01271	-.00170	-.00033
7.362	4.282	.58712	8.22000	-.03484	.07605	.36136	.06332	-.27411	.01347	-.00125	-.00003
	GRADIENT	.00003	.93448	.03851	.00737	.08162	.00350	-.01709	.00045	.00020	.00011

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (RNH035) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	5.00	STAB =	5.000
RUDDER =		ELEVON =	.000
IORB =		DX =	.000
DY =		MACH =	.600

RUN NO. 353/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.664	-.213	.58759	3.95156	-.11309	.11144	.00046	.04709	-.20038	.01087	-.00212	.00220
9.916	2.313	.58803	6.21534	.11618	.06173	.21313	.05356	-.25052	.01296	-.00165	.00023
9.803	4.259	.58849	8.18827	-.02549	.05580	.36845	.06311	-.27696	.01375	-.00115	.00011
GRADIENT		.00018	.94488	.02304	-.00428	.08233	.00353	-.01726	.00065	.00022	-.00002

RUN NO. 354/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.113	-.270	.58842	3.94923	-.18325	.04406	.00240	.04674	-.20208	.01120	-.00188	-.00025
14.808	2.324	.58932	6.21535	-.05927	.08345	.22277	.05378	-.25333	.01278	-.00135	-.00033
14.693	4.304	.58828	8.22508	-.07338	.00995	.38158	.06366	-.28065	.01320	-.00097	.00041
GRADIENT		-.00003	.93174	.02522	-.00631	.08300	.00365	-.01731	.00045	.00020	.00014

RUN NO. 355/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.891	-.272	.58946	3.91348	-.06585	.08920	.01410	.04607	-.20706	.01205	-.00274	.00040
29.979	2.346	.58900	6.26241	-.11845	.05612	.24000	.05238	-.26048	.01442	-.00259	.00073
29.891	4.294	.58907	8.23413	-.17999	.07042	.40636	.06370	-.28801	.01516	-.00205	.00075
GRADIENT		-.00009	.94363	-.02473	-.00459	.08594	.00380	-.01788	.00069	.00015	.00008

RUN NO. 356/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.449	-.271	.58792	3.85960	-.06793	.04655	.02695	.04590	-.20968	.01268	-.00304	.00010
44.799	2.322	.58850	6.23703	-.14780	.04817	.24121	.05289	-.26083	.01394	-.00260	.00038
44.865	4.260	.58830	8.20431	-.19731	.04498	.41150	.06323	-.28956	.01564	-.00232	.00076
GRADIENT		.00022	.95651	-.05989	-.02012	.08474	.00376	-.01774	.00064	.00016	.00014

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)   (RNH035)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	STAB =	5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	ELEVON =	.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	DX =	.000
SCALE = .0125		MACH =	.600

BETA = .000
RUDDER = 10.000
IORB = 6.000
DY = .000

RUN NO. 361/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58711	8.14688	-.03672	.21706	.15517	.05166	-.17938	.04019	-.02004	.00347
.58755	10.19950	-.16900	.21141	.30568	.05955	-.21146	.04380	-.02035	.00365
.00023	1.08489	-.06991	-.00299	.07955	.00417	-.01695	.00191	-.00017	.00009

DZ	ALPHAC
1.654	2.302
2.469	4.194
	GRADIENT

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58735	8.04539	-.10843	.16706	.14006	.05086	-.17568	.03928	-.02004	.00349
.58653	10.31600	-.07058	.17088	.33398	.06100	-.22167	.04461	-.02032	.00421
-.00034	.94906	.01582	.00160	.08105	.00424	-.01906	.00223	-.00012	.00030

DZ	ALPHAC
2.877	2.012
3.365	4.405
	GRADIENT

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58735	8.11744	-.10956	.22780	.15692	.05162	-.19296	.04116	-.02099	.00368
.58622	10.26970	.01898	.18695	.34657	.06214	-.23484	.04394	-.02090	.00375
-.00048	.91080	.05440	-.01729	.08026	.00445	-.01772	.00118	-.00004	.00003

DZ	ALPHAC
7.393	2.013
7.226	4.376
	GRADIENT

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58585	8.14182	-.11920	.21021	.16741	.05204	-.19966	.04150	-.02132	.00395
.58629	10.39920	-.04720	.16889	.35828	.06301	-.24123	.04442	-.02106	.00447
.00018	.93734	.02990	-.01716	.07925	.00456	-.01726	.00121	-.00011	.00021

DZ	ALPHAC
9.858	2.049
10.104	4.457
	GRADIENT

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58585	8.15598	-.09596	.20236	.18313	.05269	-.21127	.04188	-.02155	.00425
.58527	10.36750	-.02118	.12947	.37808	.06402	-.25265	.04502	-.02122	.00419
-.00025	.93034	.03146	-.03066	.08201	.00476	-.01741	.00132	-.00014	-.00003

DZ	ALPHAC
14.553	2.097
14.643	4.474
	GRADIENT

RUN NO. 366/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58550	8.24139	-.17520	.17624	.21619	.05323	-.23181	.04481	-.02338	.00473
.58504	10.35100	-.14877	.11332	.40131	.06460	-.26302	.04751	-.02291	.00463
-.00020	.93709	.01174	-.02795	.08223	.00505	-.01608	.00120	.00021	-.00004

DZ	ALPHAC
29.819	2.159
29.992	4.411
	GRADIENT

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (RNH036)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	5.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	10.000	ELEVON	=	.000
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN ZC	IORB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RUN NO. 367/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.057	2.052	.58538	8.16577	-.12614	.16956	.21606	.05255	-.23985	.04517	-.02391	.00511
44.937	4.371	.58637	10.31880	-.09769	.15247	.40553	.06456	-.27555	.04937	-.02368	-.00466
	GRADIENT	.00043	.92837	.01227	-.03737	.08170	.00518	-.01539	.00181	.00010	-.00019

RUN NO. 368/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.129	2.015	.58474	8.08551	-.04310	.16630	.20586	.05234	-.23787	.04478	-.02399	.00468
50.420	4.439	.58435	10.37690	-.11005	.15838	.42895	.06530	-.27894	.04919	-.02346	-.00465
	GRADIENT	-.00016	.94516	-.02761	-.00327	.09202	.00535	-.01694	.00182	.00022	-.00001

RUN NO. 369/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
62.057	2.140	.58502	8.24539	-.02430	.13774	.23842	.05304	-.24642	.04563	-.02365	.00468
61.853	4.416	.58414	10.35040	-.04193	.12725	.42405	.06510	-.28083	.04882	-.02322	-.00488
	GRADIENT	-.00039	.92457	-.00774	-.00461	.08153	.00530	-.01511	.00140	.00019	.00009

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (RNH037)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	-1.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	ELEVON	=	.000
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN ZC	IORB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RUN NO. 371/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
1.955	.521	.58987	6.33729	-.10766	.09365	-.06065	.04533	.17746	.00858	-.00159	.00056
1.879	2.297	.59007	8.24052	-.10093	.06646	.07983	.04681	.14793	.01110	-.00142	.00041
1.932	4.335	.59089	10.27280	-.12705	.05405	.24186	.05177	.10923	.01463	-.00125	-.00064
	GRADIENT	.00027	1.03052	-.00527	-.01028	.07932	.00171	-.01792	.00159	.00009	-.00000

ARC 14-120(CA23B) 747/1 AT1 035I (CARRIER DATA)   (RNH037) (08 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

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

STAB =	-1.000
ELEVON =	.000
DX =	.000
MACH =	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.611	-.073	.59019	6.14149	-.14594	.16043	-.10922	.04541	.19357	.00868	-.00184	-.00014
3.412	2.415	.59040	8.31124	.11055	.13546	.09485	.04713	.13800	.01034	-.00117	.00061
3.341	4.372	.59036	10.30810	.00163	.12386	.24733	.05210	.10156	.01552	-.00132	.00077
	GRADIENT	.00004	.93441	.03630	-.00723	.08029	.00147	-.02077	.00150	.00012	.00021

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.238	-.184	.58959	5.97655	-.08660	.09567	-.10336	.04561	.18477	.00664	-.00121	-.00020
7.611	2.515	.58950	8.43460	.05996	.12690	.11878	.04794	.12241	.01145	-.00111	.00017
7.497	4.363	.58887	10.32400	-.04563	.04585	.26276	.05287	.09073	.01350	-.00087	.00041
	GRADIENT	-.00015	.95292	.01233	-.00931	.08066	.00154	-.02086	.00153	.00007	.00013

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.003	-.096	.58840	6.09035	-.12387	.09762	-.08912	.04577	.17561	.00712	-.00119	-.00036
9.942	2.401	.58937	8.31062	.06698	.12280	.10834	.04745	.12200	.00927	-.00065	.00079
10.030	4.474	.58839	10.42890	-.06324	.09804	.28119	.05362	.08335	.01346	-.00084	.00042
	GRADIENT	.00001	.94747	.01539	.00043	.08098	.00168	-.02023	.00137	.00008	.00018

RUN NO. 375/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.990	.036	.58910	6.22162	-.14126	.13141	-.06674	.04583	.16329	.00671	-.00086	-.00021
14.729	2.374	.58974	8.27672	.05569	.06667	.11574	.04788	.11313	.01026	-.00062	.00008
14.795	4.458	.58844	10.39350	-.06647	.08480	.28800	.05406	.07482	.01220	-.00046	.00025
	GRADIENT	-.00014	.94208	.01827	-.01089	.08017	.00184	-.02004	.00125	.00009	.00010

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.795	-.037	.58885	6.11690	-.12939	.12231	-.05277	.04562	.14620	.00729	-.00147	-.00014
29.929	2.359	.58821	8.28595	-.02203	.11292	.13528	.04769	.09828	.01198	-.00159	.00052
30.138	4.506	.58919	10.47950	-.18963	.08067	.32081	.05480	.05621	.01383	-.00132	.00078
	GRADIENT	.00007	.95931	-.01215	-.00906	.08217	.00200	-.01981	.00145	.00003	.00014

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (RNH037)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB =	DX = .000
SCALE = .0125		DY =	MACH = .600

BETA =   .000   STAB = -1.000
RUDDER =   .000   ELEVON = .000
IORB =   6.000   DX = 6.000
DY =   MACH = .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
-.096	.58823	6.08589	-.04783	.07474	-.06525	.04479	-.14423	.00829	-.00194	.00005
2.497	.58995	8.42205	-.25301	.08694	.17043	.04800	.08536	.01255	-.00182	-.00067
4.260	.58874	10.22770	-.09599	.12210	.32095	.05380	.05192	.01470	-.00190	-.00074
GRADIENT	.00016	.94708	-.01614	.01041	.08883	.00201	-.02130	.00148	.00001	-.00016

DZ: 45.027, 44.952, 44.914

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.036	.58791	6.20914	-.01251	.05409	-.03391	.04523	.13587	.00718	-.00168	-.00032
2.316	.58759	8.27754	-.24803	.13582	.15326	.04752	.08905	.01288	-.00193	-.00065
4.524	.58783	10.47610	-.19505	.10327	.34317	.05517	.04613	.01551	-.00200	-.00084
GRADIENT	-.00002	.95062	-.04101	.01109	.08400	.00221	-.01999	.00186	-.00007	-.00012

DZ: 50.481, 50.592, 50.369

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
-.013	.58735	6.10612	.14628	.12051	-.03087	.04529	.13462	.00896	-.00195	-.00001
2.379	.58707	8.32028	-.22930	.09946	.16576	.04752	.08460	.01261	-.00178	-.00066
4.408	.58790	10.33570	-.20140	.09337	.33989	.05448	.04524	.01426	-.00200	-.00070
GRADIENT	.00012	.95573	-.08096	-.00522	.08381	.00204	-.02024	.00121	.00004	-.00016

DZ: 61.632, 61.965, 61.651

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (RNH038)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB =	DX = .000
SCALE = .0125		DY =	MACH = .600

BETA =   .000   STAB = 5.000
RUDDER =   .000   ELEVON = 5.000
IORB =   6.000   DX = 6.000
DY =   MACH = .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.046	.58938	5.98392	-.16713	.08333	-.04880	.04452	-.07078	.01170	-.00290	-.00002
2.293	.58924	8.13110	-.04218	.10096	.14417	.04876	-.12210	.01453	-.00274	-.00007
4.387	.58902	10.37170	-.12696	.08546	.30672	.05652	-.15668	.01735	-.00301	-.00028
GRADIENT	-.00008	1.01018	.01030	.00058	.08195	.00276	-.01982	.00130	-.00003	-.00007

DZ: 1.603, 1.569, 2.306

ARC 14-120(CA23B)   747/1 ATI 0351 (CARRIER DATA)   (RNH038)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	STAB	=	.000	5.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	ELEVON	=	.000	5.000
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN. ZC	DX	=	6.000	.000
SCALE	=	.0125				MACH	=	.000	.600

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

RUN NO. 382/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
3.468	.019	.58937	6.20728	-.19716	-.03665	.04449	.10115	-.07208	.01300	-.00374	.00028
3.699	2.422	.58831	8.36194	-.01894	.15576	.04902	.08959	-.13254	.01545	-.00322	.00039
3.469	4.425	.58815	10.37440	-.08950	.31410	.05730	.05348	-.16637	.01744	-.00319	.00048
	GRADIENT	-.00028	.94428	.02607	.07963	.00287	-.01062	-.02153	.00101	.00013	.00005

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
7.736	-.027	.58823	6.18939	-.22961	-.02844	.04481	.06087	-.09478	.01196	-.00299	.00006
6.902	2.422	.58845	8.27053	.07916	.17202	.04989	.08816	-.15187	.01473	-.00292	.00019
7.339	4.419	.58629	10.35840	-.08920	.33330	.05860	.09323	-.18763	.01704	-.00302	.00004
	GRADIENT	-.00042	.93444	.03510	.08138	.00306	.00742	-.02097	.00114	-.00000	-.00000

RUN NO. 384/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
10.309	.047	.58749	6.26151	-.23948	-.01415	.04507	.08783	-.10751	.01265	-.00287	-.00010
9.703	2.409	.59687	8.30010	.02282	.17809	.05047	.05753	-.16249	.01406	-.00274	.00020
10.031	4.489	.59640	10.44550	-.12841	.34572	.05957	-.04705	-.19999	.01631	-.00284	.00025
	GRADIENT	-.00025	.94000	.02694	.08101	.00324	-.00926	-.02065	.00082	.00001	.00008

RUN NO. 385/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
15.037	-.141	.58573	6.06450	-.12720	-.03639	.04453	.01465	-.11806	.01178	-.00294	-.00003
14.866	2.495	.58615	8.39330	.08175	.19982	.05137	.07175	-.18426	.01409	-.00272	.00027
14.876	4.418	.58601	10.36830	-.05165	.35759	.06021	.07290	-.21679	.01501	-.00249	.00061
	GRADIENT	.00007	.94052	.02032	.08662	.00339	.01331	-.02187	.00072	.00010	.00014

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
30.004	-.165	.58674	6.01263	-.11334	.00938	.04521	.09307	-.16001	.01073	-.00272	.00035
29.816	2.497	.58734	8.40355	-.03463	.22883	.05231	.06951	-.22075	.01309	-.00268	.00058
30.280	4.402	.58719	10.40330	-.16387	.37677	.06183	.04147	-.24950	.01368	-.00232	.00096
	GRADIENT	.00011	.95746	-.00681	.08058	.00358	-.01114	-.01980	.00066	.00008	.00013

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (RNH038)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =		MACH =	.600

RUN NO. 387/ 0   RN/L =   3.31   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.879	.070	.58666	6.21183	-.10694	.06776	.04412	.04576	-.18509	.01134	-.00263	-.00008
44.946	2.481	.58661	8.42103	-.06122	.08432	.24297	.05281	-.23763	.01325	-.00254	.00009
44.926	4.448	.58586	10.41200	-.21870	.01982	.40815	.06319	-.26773	.01521	-.00250	.00064
GRADIENT		-.00018	.95780	-.02388	-.01029	.08313	.00394	-.01898	.00088	.00003	.00016

RUN NO. 388/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.971	-.037	.58490	6.07965	-.11060	.11843	.03769	.04571	-.18564	.01184	-.00283	-.00033
50.192	2.513	.58441	8.42727	-.18012	.08470	.25489	.05310	-.24272	.01342	-.00268	.00026
50.609	4.284	.58442	10.28530	-.17500	.09634	.39538	.06224	-.26915	.01443	-.00238	.00108
GRADIENT		-.00012	.96964	-.06945	-.00568	.08295	.00376	-.01954	.00060	.00010	.00032

RUN NO. 389/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
61.515	-.115	.58473	5.98804	.12903	.11916	.02079	.04502	-.18642	.01116	-.00272	-.00018
60.520	2.529	.58435	8.29901	-.09098	.07553	.25891	.05325	-.24850	.01289	-.00255	.00039
GRADIENT		-.00014	.87406	-.08321	-.01650	.09006	.00311	-.02348	.00065	.00006	.00022

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH039)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =		MACH =	.600

RUN NO. 391/ 0   RN/L =   3.36   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.148	2.388	.59047	8.22485	-.06687	.05722	.14696	.04944	-.13476	.04310	-.01996	.00312
3.390	4.263	.59098	10.21090	-.04503	-.00654	.29461	.05658	-.16270	.04483	-.01985	.00376
GRADIENT		.00027	1.05926	.01165	-.03401	.07876	.00381	-.01490	.00092	.00006	.00034

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)

(RNH039) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	.000	BETA =		5.000
ELEVON =	10.000	RUDDER =		5.000
DX =	6.000	IORB =		.000
MACH =	.000	DY =		.600

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.21903	.58972	-.14187	.14441	.04967	-.14706	.10762	.04502	-.02145	.00392
	10.38090	.58997	-.04368	.33663	.05962	-.19071	.05150	.04962	-.02199	.00343
	.93122	.00011	.04230	.08280	.00429	-.01880	-.02417	.00198	-.00023	-.00021

DZ	ALPHAC	
7.312	2.139	
7.376	4.461	
	GRADIENT	

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.09911	.59034	-.16160	.14237	.04987	-.15562	.06343	.04518	-.02206	.00398
	10.36610	.59082	-.07507	.32594	.05998	-.19937	.05245	.04918	-.02233	.00403
	.93579	.00020	.03572	.07578	.00417	-.01806	-.00453	.00165	-.00011	.00002

DZ	ALPHAC	
9.885	2.001	
10.083	4.424	
	GRADIENT	

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.24803	.59086	-.19875	.16878	.05114	-.17898	.05544	.04656	-.02309	.00454
	10.35730	.59122	-.08338	.34691	.06131	-.21768	.06210	.04945	-.02289	.00441
	.92040	.00015	.05034	.07773	.00443	-.01689	.00290	.00126	.00009	-.00006

DZ	ALPHAC	
15.083	2.141	
14.830	4.433	
	GRADIENT	

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.11938	.59014	-.12810	.18491	.05181	-.21114	.09299	.04795	-.02428	.1475
	10.41400	.59148	-.07450	.33098	.06369	-.25297	.08848	.05174	-.02423	.05546
	.93683	.00055	.02188	.08413	.00485	-.01708	-.00184	.00155	.00002	.00029

DZ	ALPHAC	
29.781	2.045	
29.790	4.494	
	GRADIENT	

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.20736	.58975	-.08759	.21588	.05262	-.23039	.08082	.04853	-.02442	.00481
	10.31290	.59139	-.11783	.39439	.06379	-.26464	.05913	.05081	-.02404	.00453
	.95382	.00074	-.01370	.08086	.00506	-.01551	-.00983	.00103	.00018	-.00013

DZ	ALPHAC	
44.565	2.160	
44.873	4.357	
	GRADIENT	

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
	8.20360	.59078	-.01339	.21430	.05251	-.23248	.05846	.04771	-.02425	.00476
	10.36870	.59084	-.06019	.40082	.06399	-.26871	.05556	.5090	-.02391	.00479
	.95258	.00003	-.02059	.08206	.00505	-.01594	-.00128	.00140	.00015	.00001

DZ	ALPHAC	
50.286	2.123	
50.569	4.396	
	GRADIENT	

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (RNH040)   (08 OCT 75)

REFERENCE DATA

SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC
LREF =	327.7800 IN.	YMRP =	.0300 IN. YC
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 401/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	DX	ALPHAC	DY	CL	CLM	CD	CY	CBL	CYN
3.048	.58575	3.94885	-.03013	-.004	.02300	-.02134	-.14542	.04628	.01499	-.00011	-.00366
3.021	.58650	6.16485	-.00823	2.318	.03102	.18093	-.19553	.05195	.01655	-.00003	-.00366
3.274	.58596	8.32227	-.08030	4.401	.03823	.34618	-.23150	.06099	.01848	-.00037	-.00343
	.00005	.99210	-.01099	GRADIENT	.00346	.08350	-.01958	.00332	.00079	.00011	.00005

RUN NO. 402/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	DX	ALPHAC	DY	CL	CLM	CD	CY	CBL	CYN
7.066	.58578	4.06526	-.06533	-.091	.03074	-.01306	-.15131	.04656	.01448	-.00048	-.00381
7.198	.58717	6.36184	-.05879	2.490	.03128	.20176	-.20919	.05282	.01583	.00035	-.00362
7.335	.58721	8.33848	-.06649	4.405	.00535	.35582	-.24128	.06163	.01853	-.00045	-.00344
	.00033	.94695	-.00010	GRADIENT	-.00532	.08210	-.02015	.00330	.00088	.00022	.00008

RUN NO. 403/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	DX	ALPHAC	DY	CL	CLM	CD	CY	CBL	CYN
9.793	.58614	4.20285	-.10758	.024	.02801	.00433	-.16204	.04655	.01509	.00004	-.00396
9.766	.58677	6.34048	-.05513	2.449	.03665	.20296	-.21512	.05267	.01619	.00064	-.00367
9.745	.58746	8.21470	-.10482	4.293	.00220	.35455	-.24667	.06151	.01816	.00029	-.00340
	.00031	.93678	.00172	GRADIENT	-.00556	.08203	-.01993	.00345	.00071	.00007	.00013

RUN NO. 404/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	DX	ALPHAC	DY	CL	CLM	CD	CY	CBL	CYN
14.781	.58614	4.02957	-.08900	-.155	.00998	-.01356	-.16643	.04590	.01347	-.00012	-.00377
14.685	.58672	6.43765	-.05953	2.568	-.02169	.23243	-.23102	.05365	.01639	.00038	-.00354
14.592	.58737	8.22819	-.04039	4.303	-.03747	.36599	-.25576	.06217	.01739	.00055	-.00317
	.00027	.93666	.01090	GRADIENT	-.01073	.08562	-.02036	.00358	.00090	.00015	.00013

RUN NO. 405/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	DX	ALPHAC	DY	CL	CLM	CD	CY	CBL	CYN
29.804	.58585	4.05111	-.13448	-.120	.00963	.00956	-.18861	.04573	.01313	-.00003	-.00323
29.944	.58784	6.47107	-.04528	2.563	.04981	.24845	-.24916	.05387	.01475	.00078	-.00291
29.835	.58681	8.27311	-.13744	4.329	-.04093	.38982	-.27379	.06313	.01509	.00072	-.00230
	.00026	.94525	.00497	GRADIENT	-.00921	.08577	-.01943	.00384	.00045	.00018	.00020

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH040)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC				BETA =	.000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC				RUDDER =	.000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC				IORB =	4.000	DX = .000
SCALE = .0125					DY =	.000	MACH = .600

RUN NO. 406/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.515	-.091	.58600	4.04059	.03455	.03143	.02220	.04549	-.19570	.01272	-.00298	.00000
44.728	2.446	.58754	6.34838	-.15179	.02644	.24572	.05330	-.25380	.01466	-.00278	.00022
44.671	4.476	.58637	8.39585	-.16754	-.03328	.42194	.06456	-.28489	.01640	-.00233	.00074
	GRADIENT	.00010	.95184	.04547	-.01367	.08755	.00413	-.01967	.00080	.00014	.00016

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (RNH041)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC				BETA =	.000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC				RUDDER =	.000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC				IORB =	4.000	DX = .000
SCALE = .0125					DY =	.000	MACH = .500

RUN NO. 411/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.328	2.137	.48953	6.15134	-.08804	-.17940	.15475	.05006	-.18073	.01773	-.00338	.00015
3.325	4.298	.48981	8.23496	-.05681	-.16385	.33576	.05946	-.22458	.01943	-.00329	.00034
	GRADIENT	.00013	.96420	.01445	.00720	.08376	.00435	-.02029	.00079	.00004	.00009

RUN NO. 412/ 0   RN/L = 2.96   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.838	2.085	.48840	6.09329	-.09292	-.16145	.17291	.05103	-.19427	.01731	-.00354	-.00006
7.184	4.439	.48857	8.36195	-.05746	-.16305	.35624	.06112	-.23734	.01963	-.00325	.00057
	GRADIENT	.00007	.96379	.01507	-.00068	.07788	.00429	-.01830	.00098	.00013	.00027

RUN NO. 413/ 0   RN/L = 2.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.770	2.218	.48931	6.27786	-.14676	-.13853	.18618	.05107	-.20125	.01641	-.00333	.00079
9.780	4.469	.48962	8.40798	-.05126	-.15367	.35973	.06138	-.24274	.01894	-.00313	.00099
	GRADIENT	.00013	.94601	.04241	-.00672	.07708	.00458	-.01842	.00112	.00009	.00009

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (RNH041)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = .000	5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = .000	5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 4.000	DX = .000	.000
SCALE = .0125			DY =	MACH = .000	.500

RUN NO. 414/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.789	1.986	.48945	6.05709	-.15807	-.11379	.18004	.05106	-.21001	.01680	-.00343	-.00001
14.819	4.441	.48934	8.37959	-.06484	-.09466	.37562	.06201	-.25452	.01900	-.00301	.00059
GRADIENT		-.00005	.94620	.03798	.00779	.07968	.00446	-.01813	.00090	.00017	.00024

RUN NO. 415/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.638	2.215	.48943	6.25657	-.07823	-.13076	.21861	.05205	-.23474	.01657	-.00293	.00023
29.826	4.415	.49048	8.35752	-.04136	-.13496	.39591	.06230	-.27120	.01818	-.00263	.00086
GRADIENT		.00048	.95503	.01676	-.00191	.08060	.00466	-.01657	.00073	.00013	.00029

RUN NO. 416/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.438	2.214	.49039	6.22878	-.07656	-.11385	.23604	.05189	-.24356	.01552	-.00268	.00075
44.694	4.330	.48927	8.27081	-.09178	-.16629	.40657	.06244	-.27825	.01860	-.00254	.00085
GRADIENT		-.00053	.96531	-.00719	-.02479	.08061	.00499	-.01640	.00145	.00006	.00005

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (RNH042)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = .000	5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = .000	5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 4.000	DX = .000	.000
SCALE = .0125			DY =	MACH = .000	.300

RUN NO. 421/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.128	2.209	.29686	6.15824	-.00134	-.00631	.18322	.05349	-.18297	.02257	-.00334	.00004
3.123	4.221	.29674	8.14827	.01001	-.02654	.34282	.06167	-.22535	.02455	-.00315	.00022
GRADIENT		-.00006	.98892	.00564	-.31006	.07931	.00407	-.02106	.00098	.00010	.00009

RUN NO. 422/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.085	2.291	.29723	6.28847	-.07398	-.04136	.20872	.05422	-.19701	.02192	-.00310	.00085
7.303	4.347	.29615	8.32691	-.07285	-.01484	.36025	.06279	-.23811	.02581	-.00341	.00064
GRADIENT		-.00053		.00055	.01290	.07370	.00417	-.01999	.00189	.00015	-.00010

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (RNM042)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000 STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000 ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 4.000 DX = .000
SCALE = .0125		DY = .000 MACH = .300

RUN NO. 423/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.285	2.180	6.13881	.29680	-.01604	-.02059	.19689	.05392	-.20155	.02342	-.00334	-.00013
9.970	4.347	8.34801	.29657	-.10366	-.04935	.36485	.06260	-.24371	.02370	-.00301	.00079
	GRADIENT	1.01948	-.00010	-.04044	-.01327	.07751	.00401	-.01946	.00013	.00015	.00042

RUN NO. 424/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.488	2.266	6.25676	.29699	-.06213	-.02430	.21160	.05447	-.21459	.02297	-.00318	.00033
14.575	4.354	8.31217	.29707	-.04284	-.03813	.38067	.06331	-.25493	.02526	-.00305	.00040
	GRADIENT	.98457	.00004	.00924	-.00662	.08099	.00423	-.01932	.00110	.00006	.00003

RUN NO. 425/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.804	2.191	6.21467	.29669	-.11139	-.03212	.22265	.05431	-.23292	.02283	-.00292	-.00032
29.724	4.292	8.26295	.29648	-.07168	-.04141	.39578	.06370	-.27246	.02451	-.00260	.00013
	GRADIENT	.97492	-.00010	.01890	-.00442	.08241	.00447	-.01882	.00080	.00015	-.00009

RUN NO. 426/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.766	2.202	6.22064	.29674	-.08944	-.11793	.23814	.05401	-.24326	.02235	-.00263	.00005
44.688	4.266	8.24369	.29673	-.05498	-.10352	.39319	.06189	-.27772	.02270	-.00227	.00053
	GRADIENT	.98014	-.00000	.01670	.00698	.07512	.00381	-.01670	.00017	.00018	.00023

ARC 14-120(CA23B) 747/1 AT1

(ANH004) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000	
RUDDER = .000	MACH = .600	

RUN NO. 41/ 0 RN/L = 3.40 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	CA	CN	CSL	CLN
131.927	-5.187	-.02094	-.23157	.03198	-.49546	.00079	-.00276
131.734	-3.684	-.02217	-.34513	.03685	-.36559	.00032	-.00266
131.585	-2.684	-.02372	-.50648	.04010	-.27390	.00030	-.00250
131.467	-1.696	-.02568	-.86784	.04220	-.18676	.00066	-.00244
131.339	-.712	-.02789	-2.24264	.04434	-.09544	.00027	-.00231
131.218	-.186	-.03458	10.54370	.04521	-.01047	.00011	-.00263
131.073	1.254	-.02971	1.35772	.04357	.08564	.00105	-.00207
130.941	2.216	-.03296	.85236	.04041	.17481	.00078	-.00214
130.802	3.190	-.03487	.62664	.03566	.25647	.00096	-.00219
130.668	4.233	-.03700	.50119	.02749	.35529	.00120	-.00235
130.501	5.283	-.03802	.41287	.01811	.44793	.00122	-.00246
130.357	6.213	-.03622	.33469	.00909	.52841	.00171	-.00224
130.219	7.193	-.03533	.28218	.00080	.61595	.00192	-.00203
130.047	8.200	-.02880	.20195	-.00356	.70226	.00280	-.00145
GRADIENT		-.00184	.22054	-.00094	.09104	.00014	-.00005

ARC 14-120(CA23B) 747/1 AT1   (ANH005)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

| BETA | = | .000 | STAB | = | 5.000 |
| RUDDER | = | .000 | MACH | = | .600 |

RUN NO. 51/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	CA	CN	CSL	CLN
130.569	-5.190	-.02862	-.31637	.03327	-.41844	.00113	-.00340
130.436	-3.773	-.03281	-.49855	.03738	-.29603	.00051	-.00358
170.276	-2.866	-.03543	-.70951	.04005	-.21980	-.00022	-.00352
130.158	-1.854	-.04170	-1.28944	.04278	-.11979	-.00046	-.00357
130.031	-.858	-.03734	-2.49324	.04464	-.03131	-.00023	-.00307
129.869	.149	-.03907	14.69840	.04525	.06285	-.00069	-.00331
129.728	1.216	-.03656	1.72287	.04476	.15923	-.00093	-.00302
129.596	2.190	-.03748	.98042	.04228	.25650	-.00058	-.00288
129.434	3.207	-.03981	.71144	.03768	.34553	-.00072	-.00294
129.329	4.111	-.03560	.51045	.03161	.42649	-.00072	-.00267
129.085	5.180	-.03849	.42628	.02343	.51844	-.00098	-.00276
128.927	6.172	-.03782	.35172	.01461	.60277	-.00158	-.00264
128.889	7.226	-.03441	.27360	.00480	.70422	-.00133	-.00216
128.737	8.205	-.03197	.22398	.00003	.78356	-.00252	-.00184
GRADIENT		-.00032	.28308	-.00052	.09229	.00011	.00011

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH008)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 81/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
4.365	.192	-.02401	-.10876	7.13931	.91914	.04268	-.12635	.00042	-.00206
2.954	2.364	-.03533	-.09956	.85653	.69755	.04257	.05653	.00104	-.00296
3.443	4.308	-.04096	.10169	.54517	.57102	.03357	.21568	.00102	-.00306
GRADIENT		-.00414	.00177	-1.62692	-.08491	-.00217	.08311	.00015	-.00024

RUN NO. 82/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
6.994	-.126	-.02455	-.04307	-10.98800	.41163	.04320	-.13669	.00046	-.00216
7.541	2.378	-.03096	-.04527	.74617	.31383	.04288	.07717	.00065	-.00216
7.335	4.361	-.03794	-.02562	.49892	.14322	.03388	.23517	.00021	-.00229
GRADIENT		-.00297	.00368	2.65110	-.05892	-.00199	.08297	-.00005	-.00003

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH008)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.751	-.141	-.02355	-.01931	-9.48584	.18416	.04405	-.12598	-.00025	-.00207
9.637	2.414	-.03009	-.02549	.71430	.17685	.04313	.08963	-.00034	-.00209
9.522	4.401	-.03349	-.03304	.43541	.18465	.03372	.24400	-.00078	-.00203
GRADIENT		-.00221	-.00299	2.26917	-.00003	-.00218	.08160	.00011	.00001

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.752	-.014	-.02608	-.02440	-62.46180	.22804	.04504	-.10357	.00006	-.00226
15.063	2.461	-.02807	-.04108	.65368	.28148	.04331	.10662	.00029	-.00184
15.188	4.492	-.03685	-.03121	.47049	.17167	.03298	.26906	.00067	-.00227
GRADIENT		-.00233	-.00170	14.38136	-.01129	-.00260	.08278	.00013	.00000

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.536	-.028	-.02407	-.03133	-40.44000	.29506	.04517	-.08486	.00084	-.00223
29.860	2.464	-.03185	-.04291	.74080	.29463	.04256	.13397	.00039	-.00223
29.902	4.306	-.03897	-.03159	.51892	.17718	.03337	.27668	.00077	-.00254
GRADIENT		-.00342	-.00032	9.85305	-.02565	-.00263	.08366	-.00003	-.00007

RUN NO. 86/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.873	-.065	-.02757	-.02362	-23.10330	.22277	.04502	-.08212	.00067	-.00248
44.666	2.496	-.03315	-.02345	.76090	.16083	.04211	.15286	.00065	-.00228
45.029	4.342	-.03517	-.01912	.48448	.10662	.03219	.30160	.00077	-.00227
GRADIENT		-.00175	.00096	5.59553	-.02622	-.00280	.08736	.00002	.00005

RUN NO. 87/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.039	-.106	-.02787	-.01649	-14.70380	.15753	.04554	-.06969	.00031	-.00246
50.412	2.490	-.03319	-.02879	.76395	.19650	.04218	.14912	.00095	-.00236
50.166	4.334	-.03850	-.02255	.50951	.12637	.03179	.30697	.00109	-.00250
GRADIENT		-.00237	-.00159	3.59220	-.00558	-.00298	.08480	.00018	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (ANH009)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = 5.00	STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 91/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
8.075	.274	-.02879	-.03081	5.99245	.19725	.04142	-.13093	.00034	-.00257
7.276	2.380	-.03042	-.02885	.73241	.16156	.04131	.04750	.00071	-.00235
7.800	4.334	-.03350	-.02166	.44328	.10141	.03264	.20362	.00034	-.00220
GRADIENT		-.00116	.00224	-1.38154	-.02354	-.00213	.08244	.00000	.00009

RUN NO. 92/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.930	-.015	-.02295	-.03073	-57.20780	.21687	.04219	-.14130	.00067	-.00224
10.158	2.498	-.03839	-.03474	.75188	.24172	.04123	.06169	.00092	-.00259
9.843	4.339	-.03474	-.02139	.45919	.10044	.03320	.21228	.00063	-.00232
GRADIENT		-.00278	.00184	13.82212	-.02529	-.00197	.08118	-.00000	-.00002

RUN NO. 93/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.862	-.101	-.02177	-.03827	-12.10710	.27336	.04292	-.13342	.00050	-.00213
14.490	2.534	-.03046	-.02906	.68879	.16081	.04220	.08098	.00084	-.00239
15.108	4.322	-.03437	-.02133	.45608	.09991	.03398	.22484	.00065	-.00224
GRADIENT		-.00288	.00380	2.99138	-.03947	-.00189	.08101	.00004	-.00003

RUN NO. 94/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.926	-.027	-.02424	-.02110	-42.27900	.14975	.04487	-.09068	.00054	-.00224
29.957	2.539	-.03487	-.03376	.78716	.18566	.04242	.11734	.00098	-.00267
29.720	4.365	-.04212	-.01885	.55338	.08835	.03336	.26552	.00100	-.00288
GRADIENT		-.00408	.00016	10.21075	-.01216	-.00251	.08111	.00011	-.00015

RUN NO. 95/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.465	-.192	-.02338	-.01754	-6.94078	.12774	.04452	-.09992	.00056	-.00222
44.798	2.406	-.03033	-.03095	.72242	.17258	.04246	.12170	.00102	-.00226
44.826	4.485	-.07326	-.02844	.50205	.13191	.03148	.30068	.00076	-.00257
GRADIENT		-.00337	.00245	1.64707	.00156	-.00271	.09564	.00005	-.00007

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-12J(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(ANH009)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 96/ C   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.078	-.03005	-.02435	-20.97440	.17333	.04539	-.07771	.00008	-.00261
2.550	-.03265	-.02537	.73404	.13939	.04194	.14746	.00038	-.00229
4.393	-.04020	-.02682	.52481	.12503	.03145	.30227	.00080	-.00264
GRADIENT	-.00218	-.00054	5.04293	-.01095	-.00299	.08503	.00016	.00000

DZ
50.555
50.407
50.452

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(ANH010)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 101/ 0   RN/L = 3.39   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.132	-.03786	-.08097	15.98680	.58112	.04260	-.04417	.00021	-.00328
2.303	-.04006	-.08924	.99677	.50184	.04108	.12376	.00015	-.00309
4.270	-.03935	-.08411	.52838	.39704	.03198	.28520	.00074	-.00276
GRADIENT	-.00037	-.00081	-3.79022	-.04435	-.00254	.07955	.00013	.00012

DZ
6.742
7.349
7.463

RUN NO. 102/ 0   RN/L = 3.38   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.206	-.03319	-.03516	-9.14115	.25384	.04258	-.07123	.00017	-.00284
2.335	-.04042	-.03365	.99200	.18864	.04149	.14056	.00055	-.00298
4.346	-.03977	-.04055	.52480	.18940	.03223	.30546	.00088	-.00260
GRADIENT	-.00151	-.00111	2.20373	-.01465	-.00220	.08277	.00016	.00005

DZ
10.009
10.088
10.447

RUN NO. 103/ 0   RN/L = 2.37   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.178	-.03442	-.03806	-10.91640	.27412	.04381	-.04610	.00007	-.00287
2.367	-.03607	-.03222	.87350	.18060	.04200	.16062	.00036	-.00272
4.381	-.03720	-.02935	.48698	.13707	.03249	.32557	.00022	-.00239
GRADIENT	-.00061	.00193	2.59261	-.03034	-.00241	.08149	.00004	.00010

DZ
15.028
14.812
15.043

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH010)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = 5.000
IORB   = 8.000   DX   =   .000
DY   = .000   MACH   =   .600

RUN NO. 104/ 0   RN/L =   3.36   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
-.108	29.734	-.02025	-.03396	-17.50900	.1454	.04479	-.00575	.00034	-.00283
2.360	30.254	-.02508	-.03978	.96584	.13985	.04253	.20253	.00020	-.00309
4.407	29.860	-.02305	-.04015	.52247	.10761	.03232	.36782	.00047	-.00293
GRADIENT		-.00067	-.00140	4.11272	-.00816	-.00270	.08281	.00003	-.00002

RUN NO. 105/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
-.111	44.868	-.03145	-.03296	-16.47020	.22554	.04522	.01639	.00025	-.00283
2.422	45.183	-.03268	-.03866	.91470	.18116	.04226	.23034	.00040	-.00298
4.429	45.129	-.02344	-.03932	.50917	.10897	.03216	.39509	.00023	-.00277
GRADIENT		.00167	-.00144	3.87374	-.02532	-.00280	.08345	-.00000	.00001

RUN NO. 106/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
-.076	50.418	-.03157	-.03425	-24.19930	.22512	.04534	.01979	.00043	-.00298
2.472	50.480	-.02435	-.03651	.84657	.13458	.04209	.23916	.00045	-.00288
4.415	50.477	.01688	-.04021	.52230	.07855	.03156	.40428	.00066	-.00292
GRADIENT		.00325	-.00131	5.72305	-.03278	-.00296	.08563	.00005	.00001

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH011)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   = .000   STAB   = -1.000
RUDDER = .000   ELEVON = 5.000
IORB   = 4.000   DX   =   .000
DY   = .000   MACH   =   .600

RUN NO. 111/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
.047	3.151	-.11075	-.02341	26.60780	1.58291	.04599	-.09010	.00027	-.00183
2.270	3.118	-.10941	-.03080	.77746	1.02370	.04380	.09687	.00057	-.00195
4.264	3.528	-.10860	-.03447	.46360	.75986	.03336	.25917	.00070	-.00185
GRADIENT		.00051	-.00264	-6.30222	-.19622	-.00296	.08284	.00010	-.00000

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (ANH011) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 112/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.547	-.170	-.02451	-.11970	-8.21007	1.69918	.04548	-.09333	.00058	-.00196
7.199	2.385	-.03117	-.10988	.74906	1.00897	.04322	.12282	.00044	-.00195
7.175	4.257	-.03785	-.11583	.50986	.81416	.03311	.27090	.00065	-.00211
GRADIENT		-.00299	.00105	2.06044	-.20407	-.00268	.08242	.00001	-.00003

RUN NO. 113/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.781	-.120	-.02656	-.11596	-12.50350	1.64035	.04599	-.08222	.00019	-.00209
9.781	2.353	-.03276	-.11241	.79807	1.03445	.04316	.12474	.00040	-.00214
9.491	4.419	-.03856	-.11246	.50052	.77832	.03217	.28840	.00020	-.00215
GRADIENT		-.00264	.00079	2.94672	-.19172	-.00298	.08173	.00000	-.00001

RUN NO. 114/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.874	-.041	-.03158	-.11731	-37.75920	1.61977	.04646	-.07247	.00006	-.00255
14.967	2.414	-.03386	-.11444	.80362	1.03828	.04264	.13493	.00113	-.00227
14.923	4.392	-.03861	-.11849	.50413	.81656	.03193	.29452	.00075	-.00224
GRADIENT		-.00156	-.00021	8.91129	-.18339	-.00321	.08285	.00017	.00007

RUN NO. 115/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.907	-.177	-.02656	-.11781	-8.53365	1.68668	.04567	-.06548	.00049	-.00224
29.803	2.432	-.03132	-.10938	.73812	.99348	.04199	.15878	.00093	-.00203
29.693	4.435	-.04008	-.11499	.51832	.79100	.03011	.32634	.00057	-.00236
GRADIENT		-.00288	.00074	2.04115	-.19773	-.00328	.08501	.00002	-.00002

RUN NO. 116/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.786	-.134	-.02629	-.10711	-11.09150	1.52576	.04565	-.04599	.00031	-.00219
45.057	2.347	-.03335	-.10582	.81448	.96551	.04120	.16998	.00056	-.00213
44.452	4.450	-.03076	-.11672	.49958	.80359	.02879	.34501	.00090	-.00234
GRADIENT		-.00272	-.00202	2.59569	-.15955	-.00362	.08534	.00013	-.00003

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH012)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 121/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	PHIC	PHIO	BETAO	CA	CN	CSL	CLN
.038	-.02403	3.209	32.59070	1.07055	-.11185	.04372	-.11852	-.00009	-.00192
2.411	-.02869	3.176	.68203	.81762	-.11753	.04195	.07952	.00063	-.00202
4.319	-.03801	3.398	.50466	.59669	-.10642	.03289	.22793	.00015	-.00233
GRADIENT	-.00321		-7.73165	-.11051	.00112	-.00246	.08102	.00006	-.00009

RUN NO. 122/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	PHIC	PHIO	BETAO	CA	CN	CSL	CLN
-.026	-.02811	7.586	-47.68780	1.05177	-.11292	.04426	-.10316	.00005	-.00236
2.399	-.03271	7.752	.78115	.77121	-.11194	.04237	.09418	.00081	-.00237
4.448	-.03798	7.261	.48964	.55069	-.09920	.03210	.25339	.00052	-.00231
GRADIENT	-.00220		11.04783	-.11211	.00299	-.00266	.07974	.00011	.00001

RUN NO. 123/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	PHIC	PHIO	BETAO	CA	CN	CSL	CLN
-.156	-.02594	10.180	-9.45049	1.04900	-.11073	.04426	-.11163	.00023	-.00233
2.439	-.03357	9.988	.78898	.77720	-.11282	.04245	.10393	.00057	-.00236
4.458	-.03737	10.110	.48077	.58516	-.10592	.03164	.26778	.00063	-.00223
GRADIENT	-.00250		2.23580	-.10073	.00096	-.00284	.08227	.00009	.00002

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH013)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 131/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	PHIC	PHIO	BETAO	CA	CN	CSL	CLN
.127	-.01363	3.093	6.10814	.95072	-.10041	.04457	-.03381	.00004	-.00061
2.255	-.02297	3.006	.58366	.72488	-.10209	.04301	.14201	.00008	-.00100
4.338	-.02211	3.460	.29224	.50356	-.08994	.03361	.30658	.00046	-.00074
GRADIENT	-.00202		-1.38557	-.10619	.00247	-.00260	.08085	.00010	-.00003

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                        ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (ANH013)   (08 OCT 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   =   5.000
LREF =   327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON =   5.000
BREF = 2348.0400 IN.   ZMRP =   190.7500 IN. ZC   IORB   =   6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

                                                                              PARAMETRIC DATA

RUN NO. 132/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 -.139   -.01465   -.10535   -6.02567   1.00523   .04470   -.04333   .00005   -.00076
 2.360   -.01885   -.09890   .45777   .68905   .04337   .16157   .00053   -.00075
 4.367   -.02036   -.09513   .26739   .53220   .03403   .32629   .00070   -.00065
GRADIENT -.00129   -.00228   1.44473 -.10584   -.00229   .08203   .00015   .00002
DZ
 7.217
 7.234
 7.262

RUN NO. 133/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 -.237   -.01706   -.10377   -4.11140   .99648   .04470   -.04647   .00040   -.00104
 2.407   -.01882   -.08719   .44820   .60332   .04335   .17707   .00028   -.00079
 4.371   -.02200   -.08783   .28859   .49039   .03389   .33533   .00038   -.00077
GRADIENT -.00105   .00362   .99792   -.11200   -.00224   .08294   -.00001   .00006
DZ
10.116
 9.960
 9.890

RUN NO. 134/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 -.191   -.02211   -.09798   -6.58827   .93377   .04547   -.02817   -.00035   -.00137
 2.411   -.02076   -.09538   .49354   .66058   .04376   .18662   .00034   -.00101
 4.441   -.02383   -.09119   .30774   .50485   .03346   .35562   .00036   -.00096
GRADIENT -.00033   .00144   1.54547 -.09317   -.00251   .08284   .00016   .00009
DZ
15.175
14.756
15.038

RUN NO. 135/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 -.063   -.02859   -.09840   -24.55400   .92147   .04601   .01379   .00013   -.00219
 2.435   -.03091   -.09207   .72761   .63439   .04341   .22014   .00022   -.00211
 4.393   -.03562   -.09852   .46506   .54824   .03356   .37720   .00061   -.00230
GRADIENT -.00152   .00009   5.81839 -.08517   -.00271   .08161   .00010   -.00002
DZ
30.192
29.830
29.948

RUN NO. 136/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 -.049   -.02818   -.08807   -30.15350   .83074   .04596   .02785   .00028   -.00232
 2.450   -.03322   -.09149   .77706   .63200   .04292   .24163   .00002   -.00234
 4.474   -.03625   -.08813   .46476   .48762   .03224   .40465   .00072   -.00246
GRADIENT -.00179   -.00007   6.98692 -.07602   -.00296   .08341   .00009   -.00003
DZ
44.708
44.452
44.667

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (ANH013) (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = .000 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = .000 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB =	DX = 6.000 .000
SCALE = .0125		DY =	MACH = .000 .600

RUN NO. 137/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.164	-.057	-.02860	-.09393	-26.61570	.88566	.04580	.02725	.00048	-.00234
50.275	2.433	-.03271	-.09205	.77048	.63379	.04268	.24490	.00069	-.00238
50.038	4.464	-.03731	-.08744	.47934	.48464	.03172	.41281	.00083	-.00252
GRADIENT		-.00192	.00141	6.17858	-.08916	-.00305	.08536	.00008	-.00004

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (ANH014) (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA =	STAB = .000 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER =	ELEVON = .000 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB =	DX = 6.000 10.000
SCALE = .0125		DY =	MACH = .000 .600

RUN NO. 141/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.324	2.292	-.01280	-.06053	.31988	.42703	.04176	.15480	.00029	.00010
3.528	4.239	-.01529	-.05714	.20685	.32308	.03235	.32110	.00032	.00011
GRADIENT		-.00128	.00174	-.05808	-.05341	-.00483	.08545	.00001	.00001

RUN NO. 142/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.340	1.933	-.01416	-.06404	.41998	.45795	.04345	.14324	-.00022	-.00005
7.097	4.300	-.01526	-.06314	.20349	.35723	.03277	.33945	.00029	.00016
GRADIENT		-.00046	.00038	-.03144	-.04254	-.00451	.08287	.00021	.00009

RUN NO. 143/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.137	1.946	-.00951	-.05199	.28014	.36992	.04395	.14968	-.00004	.00020
9.825	4.403	-.01435	-.05694	.18696	.31845	.03275	.35446	.00037	.00015
GRADIENT		-.00197	-.00202	-.03792	-.02095	-.00456	.08334	.00016	-.00002

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH014) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 144/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.968	-.01610	-.05263	.46894	.44604	.04431	.16172	.00024	-.00045
4.376	-.02033	-.05095	.26641	.28556	.03282	.37028	.00020	-.00048
GRADIENT	-.00175	.00485	-.03412	-.06635	-.00477	.08662	-.00002	-.00001

DZ 14.831 14.775

RUN NO. 145/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.997	-.02870	-.06409	.82332	.45433	.04433	.19899	.00034	-.00201
4.392	-.03153	-.04940	.41164	.27580	.03255	.39840	.00060	-.00194
GRADIENT	-.00118	.00613	-.17189	-.07454	-.00492	.08326	.00011	.00003

DZ 30.007 29.873

RUN NO. 146/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.998	-.02928	-.06037	.83988	.42896	.04415	.20952	.00079	-.00229
4.430	-.03316	-.05230	.42924	.29070	.03160	.42202	.00037	-.00216
GRADIENT	-.00159	.00332	-.16883	-.05684	-.00516	.08737	-.00017	.00005

DZ 44.854 44.891

RUN NO. 147/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.049	-.03183	-.05552	.89046	.39158	.04411	.22438	.00040	-.00237
4.431	-.03343	-.05247	.43278	.29200	.03154	.42391	.00098	-.00226
GRADIENT	-.00067	.00128	-.19214	-.04135	-.00527	.08376	.00025	.00005

DZ 50.387 50.182

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (ANH015)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	5.000	BETA =	
ELEVON =	5.000	RUDDER =	
DX =	10.000	IORB =	
MACH =	.600	DY =	

RUN NO. 151/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.261	2.410	-.01539	-.05552	.36584	.31121	.04093	.15563	.00023	-.00030
7.540	4.362	-.02184	-.05594	.28710	.26196	.03104	.31585	.00010	-.00062
GRADIENT		-.00330	-.00021	-.04035	-.02523	-.00506	.08210	-.00007	-.00016

RUN NO. 152/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.896	2.043	-.01620	-.05238	.45446	.29782	.04238	.13504	.00040	-.00048
10.215	4.469	-.02110	-.05759	.27085	.26759	.03070	.34009	.00026	-.00066
GRADIENT		-.00202	-.00215	-.07571	-.01246	-.00482	.08454	-.00006	-.00007

RUN NO. 153/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.806	2.079	-.02047	-.04574	.56414	.25921	.04316	.15591	-.00031	-.00082
14.750	4.497	-.02265	-.04780	.28886	.22228	.03110	.36145	.00011	-.00077
GRADIENT		-.00090	-.00085	-.11388	-.01528	-.00499	.08502	.00018	.00002

RUN NO. 154/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
30.131	2.049	-.03036	-.05990	.84898	.33936	.04394	.18913	.00083	-.00234
30.087	4.493	-.03550	-.05189	.45306	.24052	.03152	.39280	.00085	-.00242
GRADIENT		-.00210	.00328	-.6197	-.04044	-.00508	.08332	.00001	-.00003

RUN NO. 155/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.833	2.044	-.03319	-.04639	.93043	.26416	.04392	.20859	.00047	-.00261
45.102	4.460	-.03648	-.04968	.46906	.23069	.03149	.40901	.00113	-.00261
GRADIENT		-.00136	-.00136	-.19100	-.01386	-.00514	.08297	.00027	-.00000

RUN NO. 156/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.292	2.016	-.03450	-.04601	.98066	.26268	.04398	.20933	.00059	-.00282
50.425	4.375	-.03719	-.05004	.48742	.23415	.03199	.41126	.00061	-.00265
GRADIENT		-.00114	-.00171	-.20906	-.01210	-.00508	.08558	.00001	.00007

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA) (ANH016) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
1ORB =	6.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 161/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.997	2.461	-.03333	-.01182	.27527	.23155	.04018	.19142	.00027	-.00001
3.241	4.340	-.04504	-.01773	.23401	.25269	.03080	.34708	.00036	-.00032
	GRADIENT	-.00623	-.00315	-.02180	.01125	-.00500	.08287	.00005	-.00018

RUN NO. 162/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
7.114	2.024	-.03938	-.01557	.44088	.27945	.04287	.16626	.00029	-.00045
7.110	4.482	-.03932	-.01969	.25198	.21866	.03083	.37148	.00041	-.00049
	GRADIENT	.00002	-.00168	-.07683	-.02473	-.00490	.08348	.00005	-.00002

RUN NO. 163/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
10.110	1.989	-.04140	-.01433	.41286	.29275	.04380	.16541	.00024	-.00042
9.502	4.485	-.03759	-.02025	.25891	.20939	.03139	.37705	.00034	-.00054
	GRADIENT	.00153	-.00237	-.06168	-.03340	-.00497	.08479	.00004	-.00005

RUN NO. 164/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
14.885	2.147	-.03531	-.01853	.49453	.24571	.04369	.19475	.00043	-.00089
14.669	4.296	-.04432	-.02454	.32759	.25025	.03320	.37358	.00006	-.00098
	GRADIENT	-.00419	-.00280	-.07770	.00211	-.00488	.08324	-.00023	-.00004

RUN NO. 165/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
29.970	2.006	-.03728	-.02941	.83991	.26398	.04455	.20461	.00053	-.00223
29.738	4.442	-.02971	-.03310	.42727	.16541	.03191	.40806	.00090	-.00228
	GRADIENT	.00311	-.00151	-.16939	-.04046	-.00519	.08352	.00015	-.00002

RUN NO. 166/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
44.740	2.001	-.03071	-.03180	.91065	.28957	.04447	.22056	.00058	-.00252
44.620	4.440	-.03905	-.03674	.47457	.21740	.03140	.42714	.00074	-.00258
	GRADIENT	.00058	-.00202	-.17881	-.02959	-.00536	.08470	.00007	-.00002

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH016)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 167/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.983	-.03094	-.03538	.89420	.25207	.04424	.21671	.00077	-.00250
4.478	-.03710	-.03895	.47518	.21516	.03108	.43514	.00097	-.00263
GRADIENT	-.00247	-.00143	-.16791	-.01479	-.00528	.08753	.00008	-.00005

DZ
50.218
50.509

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH017)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 171/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.320	-.02250	-.05280	.55574	.29786	.03963	.16281	.00006	-.00113
4.409	-.02964	-.03816	.38562	.17796	.02832	.33966	.00028	-.00134
GRADIENT	-.00342	.00701	-.08146	-.05741	-.00541	.08468	.00011	-.00010

DZ
7.409
7.682

RUN NO. 172/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.989	-.02424	-.04476	.65824	.25469	.04116	.14657	.00036	-.00138
4.367	-.02801	-.04339	.36783	.20389	.02951	.34303	-.00002	-.00131
GRADIENT	-.00159	.00058	-.13896	-.02136	-.00490	.08262	.00016	.00003

DZ
10.200
9.876

RUN NO. 173/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.042	-.02756	-.04430	.77345	.25118	.04199	.15871	-.00007	-.00167
4.390	-.02838	-.04124	.37080	.19334	.03027	.35705	.00038	-.00148
GRADIENT	-.00035	.00130	-.17151	-.02464	-.00499	.08448	.00019	.00008

DZ
14.980
14.840

RUN NO. 174/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.994	-.03417	-.03893	.98158	.22154	.04298	.18417	.00089	-.00279
4.397	-.04190	-.05055	.54644	.23681	.03082	.39099	.00057	-.00297
GRADIENT	-.00322	-.00484	-.18111	.00636	-.00506	.08608	-.00013	-.00008

DZ
30.168
29.810

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　　　　(ANH017)　(08 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RUN NO. 175/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.109	-.03555	-.03866	.96560	.21860	.04303	.21618	.00021	-.00280
4.417	-.04035	-.04473	.52387	.20806	.03088	.41179	.00010	-.00283
GRADIENT	-.00208	-.00263	-.13141	-.00457	-.00526	.08476	-.00005	-.00001

DZ
44.854
45.244

RUN NO. 176/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.118	-.03598	-.03588	.97366	.20281	.04304	.21421	.00073	-.00295
4.352	-.03800	-.04182	.50080	.19570	.03131	.40634	.00075	-.00276
GRADIENT	-.00090	-.00266	-.21167	-.00319	-.00525	.08601	.00001	.00009

DZ
50.344
50.595

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　　　　(ANH018)　(08 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 181/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.472	-.05330	-.04653	1.23581	.32090	.04110	.17094	.00571	-.00767
4.405	-.04626	-.03533	.60218	.196:8	.03183	.32447	.00667	-.00741
GRADIENT	.00364	.00579	-.32765	-.06449	-.00479	.07939	.00050	.00014

DZ
3.378
3.590

RUN NO. 182/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.009	-.04982	-.03557	1.42106	.25146	.04261	.14843	.00501	-.00674
4.378	-.03609	-.04085	.47278	.22910	.03186	.34335	.00584	-.00553
GRADIENT	.00579	-.00223	-.40024	-.00944	-.00454	.08227	.00035	.00051

DZ
7.711
7.202

RUN NO. 183/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.005	-.04669	-.04412	1.33418	.31295	.04294	.15579	.00473	-.00612
4.475	-.02745	-.02597	.35177	.14366	.03174	.35870	.00471	-.00412
GRADIENT	.00779	.00735	-.39775	-.06854	-.00453	.08216	-.00001	.00081

DZ
9.911
10.102

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (ANHO18) (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC	IORB =	6.000
SCALE =	.0125			DY =	10.000

	STAB =	5.000
	ELEVON =	5.000
	DX =	.000
	MACH =	.600

RUN NO. 184/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.973	2.102	-.03302	-.03984	.90033	.27916	.04334	.17646	.00371	-.00431
14.736	4.352	-.01495	-.03269	.19656	.18330	.03251	.36464	.00430	-.00229
	GRADIENT	.00799	.00316	-.31129	-.04240	-.00479	.08323	.00026	.00089

RUN NO. 185/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.716	2.100	-.00154	-.04508	.04202	.31743	.04376	.19817	.00177	.00026
29.761	4.335	.01266	-.04340	-.16756	.24384	.03310	.38729	.00200	.00193
	GRADIENT	.00636	.00075	-.09378	-.03293	-.00477	.08463	.00011	.00075

RUN NO. 186/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.733	1.972	-.00480	-.04216	.13937	.30126	.04400	.20493	.00071	.00026
44.856	4.308	.00046	-.03500	-.00608	.19684	.03242	.40470	.00130	.00103
	GRADIENT	.00225	.00307	-.06227	-.04470	-.00495	.08552	.00025	.00033

RUN NO. 187/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.952	2.021	-.01038	-.04737	.29428	.33765	.04353	.21287	.00123	-.00033
50.410	4.396	-.00661	-.05131	.08622	.28566	.03182	.41729	.00103	.00039
	GRADIENT	.00159	-.00166	-.08761	-.02185	-.00493	.08608	-.00009	.00030

DATE 22 MAR 75   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANM019)   (08 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 8.000	DX = .000
SCALE = .0125			DY = 10.000	MACH = .600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.491	2.405	-.03781	-.03168	.90077	.17717	.04060	.14820	.00579	-.00577
7.844	4.380	-.01596	-.02537	.20895	.11826	.03112	.30866	.00683	-.00345
GRADIENT		.01106	.00320	-.35027	-.02983	-.00480	.08124	.00053	.00117

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.818	2.116	-.03372	-.02745	.91320	.15535	.04129	.13896	.00544	-.00506
9.759	4.310	-.01013	-.02251	.13473	.10619	.03143	.31636	.00632	-.00250
GRADIENT		.01076	.00226	-.35487	-.02241	-.00450	.08087	.00040	.00117

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.864	1.964	-.02325	-.03502	.67824	.20068	.04205	.13431	.00530	-.00352
15.018	4.414	.00227	-.03061	-.02949	.14293	.03155	.33436	.00546	-.00058
GRADIENT		.01041	.00180	-.28887	-.02357	-.00429	.08166	.00006	.00120

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
30.225	2.014	.01179	-.02797	-.33535	.15917	.04334	.17602	.00223	-.00143
30.105	4.404	.03046	-.02455	-.39659	.11458	.03249	.37672	.00240	-.00369
GRADIENT		.00781	.00143	-.02563	-.01866	-.00454	.08398	.00007	.00095

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.421	2.014	.00407	-.03615	-.11587	.20762	.04382	.20153	.00069	.00130
45.079	4.380	.00668	-.03124	-.08750	.14588	.03204	.39516	.00167	.00180
GRADIENT		.00110	.00208	.01199	-.02609	-.00498	.08183	.00042	.00021

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.290	2.002	-.00131	-.04085	.03751	.23372	.04375	.20595	.00120	.00056
50.279	4.323	-.00061	-.02055	.00815	.09665	.03262	.39639	.00139	.00103
GRADIENT		.00030	.00874	-.01264	-.05904	-.00480	.08203	.00008	.00020

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(ANH020)   (21 OCT 75)

REFERENCE DATA

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

BETA	=	.000
RUDDER	=	.000
IORB	=	4.000
DY	=	.000

PARAMETRIC DATA

STAB	=	5.000
ELEVON	=	.000
DX	=	.000
MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.999	.056	-.02828	-.08876	26.67240	1.27147	.04771	.01054	.00005	-.00198
2.972	2.231	-.03056	-.06736	.78482	.63585	.04565	.19056	.00026	-.00198
3.376	4.258	-.03382	-.09060	.45546	.63611	.03615	.35360	.00022	-.00183
GRADIENT		-.00132	-.00031	-6.20867	-.15293	-.00273	.08166	.00004	.00004

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.356	-.232	-.02757	-.06478	-6.78415	.93772	.04699	-.00684	.00011	-.00202
7.305	2.422	-.03173	-.07644	.75071	.69653	.04512	.21191	.00010	-.00201
7.176	4.286	-.03467	-.07960	.46391	.55830	.03566	.37068	-.00012	-.00191
GRADIENT		-.00157	-.00336	1.68783	-.08444	-.00238	.08348	-.00005	-.00002

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.998	-.190	-.03105	-.07750	-9.30004	1.10478	.04716	-.00049	-.00019	-.00224
9.822	2.393	-.03424	-.08742	.81997	.79993	.04522	.21996	-.00015	-.00210
9.715	4.416	-.03357	-.07630	.43602	.52700	.03489	.38269	.00064	-.00187
GRADIENT		-.00058	.00008	2.19562	-.12512	-.00258	.08330	.00017	.00008

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.608	-.076	-.02818	-.07640	-20.23390	1.07213	.04742	.02478	.00019	-.00204
14.941	2.433	-.03134	-.07495	.73837	.67795	.04494	.23209	.00014	-.00199
14.567	4.425	-.03172	-.07672	.41119	.52558	.03470	.39533	.00056	-.00178
GRADIENT		-.00081	-.00004	4.74688	-.12209	-.00275	.08234	.00016	.00006

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.742	-.160	-.03287	-.07696	-11.64240	1.10106	.04681	.02904	.00015	-.00260
29.812	2.421	-.03327	-.07190	.78744	.65328	.04385	.25141	.00036	-.00240
29.770	4.475	-.03485	-.07954	.44661	.54419	.03299	.42062	.00013	-.00221
GRADIENT		-.00041	-.00045	2.70131	-.12240	-.00290	.08456	.00007	.00008

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)

(ANH020)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =		STAB =	5.000
RUDDER =		ELEVON =	.000
IORB =		DX =	.000
DY =		MACH =	.600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.518	-.106	-.03181	-.07540	-16.70720	1.07283	.04623	.04200	.00043	-.00266
44.662	2.474	-.03453	-.07541	.80009	.67953	.04299	.26452	.00028	-.00252
44.473	4.486	-.03660	-.06670	.46794	.45726	.03141	.43801	.00051	-.00246
GRADIENT		-.00104	.00181	3.38044	-.13490	-.00314	.08624	.00001	.00004

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)

(ANH021)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =		STAB =	-1.000
RUDDER =		ELEVON =	.000
IORB =		DX =	.000
DY =		MACH =	.600

RUN NO. 211/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.110	.173	-.02110	-.09381	6.95086	1.29997	.04701	-.06320	.00044	-.00135
3.078	2.255	-.03101	-.09682	.78797	.90716	.04460	.10716	.00053	-.00160
3.099	4.353	-.03504	-.10020	.46166	.69789	.03351	.27502	.00042	-.00159
GRADIENT		-.00333	-.00153	-1.55055	-.14397	-.00323	.08091	-.00000	-.00006

RUN NO. 212/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.673	-.126	-.02421	-.09799	-10.34500	1.37286	.04639	-.08131	.00005	-.00161
7.105	2.399	-.03108	-.10688	.74259	.98064	.04330	.13296	.00071	-.00159
7.181	4.355	-.03397	-.10016	.44740	.69583	.03268	.28949	.00037	-.00154
GRADIENT		-.00220	-.00063	2.61793	-.15128	-.00297	.08284	.00008	.00001

RUN NO. 213/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.888	-.253	-.02234	-.10311	-5.03962	1.50123	.04616	-.08648	.00025	-.00150
10.133	2.398	-.03044	-.09252	.72762	.84124	.04288	.13668	.00108	-.00154
9.989	4.413	-.03202	-.09419	.41610	.64781	.03190	.29932	.00047	-.00138
GRADIENT		-.00212	.00202	1.22074	-.18627	-.00296	.08275	.00006	.00002

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (ANH021)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 214/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.808	-.052	-.02282	-.09691	-23.82030	1.34952	.04654	-.05339	-.00019	-.00146
14.795	2.452	-.02740	-.09118	.64047	.82381	.04253	.14828	.00067	-.00132
14.946	4.403	-.03224	-.10412	.41987	.71611	.03152	.30572	.00107	-.00138
GRADIENT		-.00210	-.00144	5.64106	-.14531	-.00329	.08060	.00029	.00002

RUN NO. 215/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.743	-.137	-.02376	-.09264	-9.85063	1.32218	.04549	-.05172	.00051	-.00170
29.755	2.487	-.03203	-.08775	.73818	.79014	.04115	.16849	.00074	-.00174
29.747	4.402	-.03376	-.08901	.43980	.61393	.02973	.32686	.00129	-.00169
GRADIENT		-.00226	.00086	2.37265	-.15883	-.00336	.08344	.00017	-.00000

RUN NO. 216/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.609	-.114	-.01992	-.08265	-9.94199	1.17747	.04503	-.03851	.00080	-.00139
44.499	2.547	-.03157	-.08404	.71032	.75098	.03988	.18797	.00062	-.00167
44.744	4.315	-.03304	-.09687	.43911	.67385	.02940	.33220	.00115	-.00167
GRADIENT		-.00308	-.00299	2.47615	-.11742	-.00340	.08381	.00007	-.00007

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (ANH022)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 8.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 221/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.175	.180	-.01798	-.09385	5.69209	.66443	.04469	-.02831	.00009	-.00090
7.048	2.374	-.01994	-.08436	.48131	.47319	.04286	.14762	.00042	-.00082
7.827	4.374	-.02165	-.08149	.28389	.38018	.03315	.31295	.00045	-.00080
GRADIENT		-.00088	.00297	-1.30708	-.06800	-.00272	.08135	.00009	.00003

ARC 14-120(CA23B) 747/1 ATI O2S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA   (ANH022)   (08 OCT 75)

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 222/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.008	-.095	-.01987	-.08749	-11.78550	.62331	.04471	-.03671	.00049	-.00125
9.794	2.462	-.02395	-.09099	.55746	.50567	.04300	.16624	.00027	-.00124
10.168	4.329	-.02393	-.08578	.31698	.40184	.03374	.31842	.00047	-.00092
GRADIENT		-.00096	.00028	2.85990	-.04981	-.00237	.08021	-.00001	.00007

RUN NO. 223/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.875	-.131	-.01561	-.07815	-6.77832	.56064	.04520	-.02763	-.00015	-.00080
15.107	2.479	-.02126	-.08579	.49153	.47415	.04308	.18753	.00036	-.00092
14.650	4.467	-.02519	-.08632	.32336	.40184	.03340	.34573	.00033	-.00094
GRADIENT		-.00209	-.00184	1.60755	-.03446	-.00248	.08126	.00011	-.00003

RUN NO. 224/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.663	-.130	-.02533	-.09274	-10.98930	.66773	.04584	.00278	-.00014	-.00171
30.014	2.540	-.02959	-.09038	.66761	.49726	.04292	.22761	.00012	-.00178
30.212	4.360	-.03194	-.08373	.42012	.39081	.03339	.37836	.00033	-.00176
GRADIENT		-.00148	.00192	2.67627	-.06183	-.00265	.08368	.00010	-.00001

RUN NO. 225/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.608	-.097	-.02843	-.08365	-16.30560	.60103	.04576	.02316	.00045	-.00223
44.758	2.520	-.03315	-.07930	.75396	.43776	.04225	.24841	.00092	-.00241
44.921	4.300	-.03688	-.08637	.49188	.40592	.03260	.39871	.00072	-.00239
GRADIENT		-.00191	-.00045	4.02113	-.04571	-.00287	.08545	.00007	-.00004

RUN NO. 226/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.329	-.122	-.02932	-.08725	-13.55440	.62610	.04579	.02394	.00022	-.00235
50.199	2.456	-.03269	-.07606	.76282	.42225	.04259	.24133	.00082	-.00238
50.308	4.443	-.03733	-.09256	.48180	.43064	.03183	.41313	.00074	-.00242
GRADIENT		-.00173	-.00090	3.19488	-.04458	-.00297	.08521	.00012	-.00001

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (ANH023)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 231/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.160	.028	-.01846	-.08306	33.32190	.79878	.04614	-.02519	-.00018	-.00080
3.398	2.478	-.02078	-.07840	.48052	.53695	.04434	.17461	.00026	-.00085
3.235	4.342	-.02437	-.07307	.32189	.40989	.03526	.32806	.00033	-.00095
GRADIENT		-.00135	.00230	-7.94312	-.09099	-.00243	.08186	.00012	-.00004

RUN NO. 232/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.044	-.157	-.01844	-.08117	-6.67827	.77814	.04612	-.03043	-.00012	-.00098
7.210	2.438	-.02027	-.08467	.47652	.58519	.04445	.18462	.00038	-.00088
7.208	4.444	-.02161	-.07606	.27892	.42297	.03481	.34842	.00041	-.00076
GRADIENT		-.00069	.00099	1.57164	-.07705	-.00237	.08236	.00012	.00005

RUN NO. 233/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.588	-.079	-.01877	-.07496	-13.36650	.70875	.04638	-.01474	.00004	-.00105
9.981	2.449	-.02096	-.07655	.49045	.52627	.04457	.19357	.00005	-.00089
9.714	4.418	-.02148	-.07156	.27883	.39877	.03457	.35968	.00043	-.00072
GRADIENT		-.00061	.00069	3.14770	-.06908	-.00254	.08322	.00008	.00007

RUN NO. 234/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.480	-.060	-.01899	-.07835	-17.55720	.74045	.04658	-.00023	.00031	-.00110
14.703	2.510	-.01969	-.07020	.44958	.48046	.04417	.21848	.00021	-.00080
14.839	4.425	-.02234	-.07276	.28959	.40432	.03468	.36926	.00058	-.00080
GRADIENT		-.00072	.00135	4.14699	-.07640	-.00256	.08254	.00005	.00007

RUN NO. 235/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.767	-.083	-.02720	-.07915	-18.05020	.74815	.04632	.02080	.00059	-.00212
29.743	2.454	-.02849	-.08272	.66551	.56922	.04381	.22859	.00051	-.00188
29.929	4.441	-.03141	-.07384	.40567	.40926	.03329	.40095	.00052	-.00183
GRADIENT		-.00091	.00106	4.22849	-.07471	-.00280	.08393	-.00002	.00006

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (ANH023)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000		STAB =	5.000
RUDDER = .000		ELEVON =	.000
IORB = 6.000		DX =	.000
DY = .000		MACH =	.600

RUN NO. 236/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
44.538	-.030	-.03016	-45.63040	-.07105	.66987	.04641	.03716	-.00018	-.00233
44.541	2.408	-.03288	.78245	-.07398	.51262	.04317	.24692	.00078	-.00244
44.965	4.398	-.03562	10.73182	-.07262	.40355	.03229	.41752	.00065	-.00232
	GRADIENT	-.00123		-.00039	-.06032	-.00312	.08592	.00020	.00000

RUN NO. 237/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
49.951	-.140	-.03117	-12.52690	-.06300	.60450	.04605	.02711	.00043	-.00252
49.970	2.539	-.03313	.74761	-.06581	.44958	.04271	.25770	.00073	-.00243
50.050	4.426	-.03462	.44853	-.06447	.35867	.03218	.41978	.00046	-.00220
	GRADIENT	-.00075	2.98358	-.00037	-.05410	-.00292	.08599	.00001	.00007

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (ANH024)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000		STAB =	-1.000
RUDDER = .000		ELEVON =	.000
IORB = 6.000		DX =	.000
DY = .000		MACH =	.600

RUN NO. 241/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
2.790	.104	-.01687	9.17543	-.10599	1.02723	.04491	-.10169	.00033	-.00108
3.147	2.378	-.02780	.67006	-.10795	.75025	.04284	.09267	.00012	-.00149
3.235	4.382	-.03032	.39684	-.10588	.59164	.03220	.25231	.00065	-.00134
	GRADIENT	-.00318	-2.08954	.00001	-.10226	-.00292	.08281	.00007	-.00006

RUN NO. 242/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
7.214	-.107	-.01946	-10.32810	-.09671	.91690	.04487	-.10092	.00003	-.00131
7.169	2.445	-.02538	.59509	-.10545	.72832	.04258	.10804	.00061	-.00136
7.223	4.433	-.03068	.39700	-.10967	.61002	.03183	.26907	.00072	-.00133
	GRADIENT	-.00247	2.45152	-.00288	-.06790	-.00278	.08153	.00016	-.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (ANH024)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

RUN NO. 243/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.900	-.036	-.01552	-.10373	-23.52540	.96998	.04505	-.08437	.00047	-.00100
9.833	2.466	-.02473	-.10781	.57491	.74093	.04228	.11889	.00077	-.00122
9.797	4.354	-.02779	-.09868	.36604	.55238	.03231	.26747	.00089	-.00118
GRADIENT		-.00284	.00100	5.56359	-.09495	-.00281	.08021	.00010	-.00004

RUN NO. 244/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.827	-.163	-.01662	-.10882	-5.82977	1.03936	.04495	-.08905	.00044	-.00116
14.725	2.499	-.02233	-.10653	.51199	.73058	.04185	.13393	.00078	-.00100
14.404	4.287	-.02833	-.11433	.37901	.64617	.03231	.27709	.00060	-.00115
GRADIENT		-.00259	.00108	1.47172	-.09050	-.00271	.08240	.00004	.00001

RUN NO. 245/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.598	-.049	-.02060	-.10391	-22.87620	.98226	.04535	-.05362	.00005	-.00147
29.897	2.432	-.02789	-.10629	.65724	.73161	.04136	.15020	.00079	-.00156
29.731	4.487	-.03348	-.10341	.42793	.57164	.02951	.31842	.00079	-.00176
GRADIENT		-.00284	.00007	5.28621	-.09089	-.00343	.08203	.00017	-.00006

RUN NO. 246/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.528	-.131	-.02125	-.09970	-9.19757	.95638	.04479	-.05183	.00041	-.00161
44.796	2.390	-.03248	-.09689	.77909	.67049	.04071	.16442	.00046	-.00191
44.981	4.445	-.03629	-.08862	.46835	.48992	.02844	.33187	.00095	-.00205
GRADIENT		-.00333	.00237	2.18118	-.10237	-.00350	.08393	.00011	-.00010

RUN NO. 247/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.996	-.101	-.02348	-.10355	-13.06200	.98795	.04493	-.04513	.00010	-.00175
50.084	2.534	-.03304	-.10365	.74722	.70703	.03995	.17985	.00038	-.00195
50.059	4.394	-.03447	-.09375	.44997	.52290	.02846	.33403	.00083	-.00190
GRADIENT		-.00253	.00203	3.15515	-.10367	-.00354	.08442	.00016	-.00004

BETA =
RUDDER =
IORB =
DY =

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH025)   (21 OCT 75)

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

PARAMETRIC DATA
```
BETA   =    .000        STAB   =  -1.000
RUDDER =    .000        ELEVON =    .000
1ORB   =  8.000         DX     =    .000
DY     =    .000        MACH   =    .600
```

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.209	.039	-.02082	-.12031	28.15880	.86433	.04252	-.12183	.00064	-.00168
7.216	2.367	-.02238	-.10603	.54184	.59534	.04128	.07255	.00121	-.00138
7.326	4.353	-.03042	-.10502	.40075	.49282	.03194	.22386	.00080	-.00165
GRADIENT		-.00218	.00362	-6.58775	-.08393	-.00240	.08022	.00004	.00001

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.339	-.027	-.01829	-.11596	-34.19580	.82723	.04319	-.11127	.00041	-.00148
10.040	2.372	-.02145	-.10961	.51828	.61215	.04155	.07336	.00097	-.00133
10.061	4.478	-.03288	-.10799	.42113	.50087	.03084	.24859	.00063	-.00175
GRADIENT		-.00320	.00179	7.83983	-.07284	-.00269	.07981	.00005	-.00006

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.643	-.013	-.01852	-.11070	-54.03890	.78492	.04401	-.09726	.00033	-.00140
15.082	2.543	-.02390	-.10727	.53864	.58935	.04126	.11095	.00050	-.00133
14.801	4.374	-.02446	-.09836	.32075	.46054	.03139	.25463	.00152	-.00105
GRADIENT		-.00140	.00272	12.96060	-.07410	-.00276	.08029	.00026	.00008

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.827	-.162	-.01960	-.11035	-6.88413	.79524	.04425	-.08445	.00024	-.00145
30.228	2.450	-.02650	-.10450	.61987	.57313	.04116	.12757	.00104	-.00151
30.232	4.437	-.03055	-.09616	.39488	.44532	.02997	.29272	.00121	-.00153
GRADIENT		-.00239	.00304	1.64858	-.07646	-.00301	.08196	.00022	-.00002

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.600	-.132	-.02289	-.10223	-9.85191	.73778	.04424	-.06778	.00033	-.00178
45.018	2.364	-.03204	-.10427	.77675	.58252	.04077	.14596	.00072	-.00198
44.806	4.412	-.03429	-.10011	.44576	.46660	.02913	.31023	.00118	-.00196
GRADIENT		-.00255	.00042	2.33763	-.05977	-.00326	.08328	.00019	-.00004

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH025)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

		BETA	=	.000	STAB	=	-1.000
		RUDDER	=	.000	ELEVON	=	.000
		IORB	=	8.000	DX	=	.000
		DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.823	-.233	-.01744	-.09676	-4.27924	.70952	.04396	-.07219	.00061	-.00143
50.763	2.449	-.02803	-.10520	.65573	.58103	.03994	.16079	.00125	-.00172
50.761	4.339	-.03644	-.11097	.48166	.51783	.02927	.31228	.00101	-.00210
	GRADIENT	-.00414	-.00311	1.09482	-.04232	-.00310	.08427	.00010	-.00014

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH027)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

		BETA	=	.000	STAB	=	5.000
		RUDDER	=	.000	ELEVON	=	.000
		IORB	=	8.000	DX	=	.000
		DY	=	.000	MACH	=	.600

RUN NO. 261/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.310	.046	-.01681	-.11653	20.05070	.83516	.04412	-.03525	-.00040	-.00105
7.309	2.283	-.02325	-.12102	.58363	.68499	.04294	.15409	-.00006	-.00116
7.865	4.288	-.02083	-.10914	.27863	.51237	.03323	.31339	-.00092	-.00091
	GRADIENT	-.00098	.00167	-4.73831	-.07592	-.00253	.08223	.00012	.00003

RUN NO. 262/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.835	-.171	-.02014	-.12235	-6.70156	.86163	.04434	-.04423	-.00008	-.00126
9.501	2.437	-.01962	-.11126	.46137	.61936	.04263	.16978	.00085	-.00103
9.652	4.384	-.02335	-.11356	.30547	.53245	.03321	.32481	.00071	-.00100
	GRADIENT	-.00065	.00206	1.60490	-.07798	-.00235	.08107	.00018	.00006

RUN NO. 263/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.936	-.143	-.02337	-.11434	-9.28071	.81984	.04492	-.02638	-.00019	-.00156
14.990	2.462	-.02474	-.11107	.57592	.61564	.04301	.18941	.00035	-.00158
15.447	4.479	-.02882	-.11595	.36907	.53535	.03274	.35193	.00061	-.00151
	GRADIENT	-.00115	-.00027	2.16828	-.06235	-.00254	.08189	.00017	.00001

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH027) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 264/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.711	-.161	-.02834	-.11546	-9.99059	.83374	.04519	.00047	-.00000	-.00216
29.841	2.529	-.02940	-.11449	.66612	.63153	.04254	.22209	.00076	-.00205
30.092	4.385	-.03050	-.11120	-.39889	.51881	.03309	.37842	.00056	-.00175
GRADIENT		-.00047	.00090	2.40570	-.06971	-.00254	.08309	.00014	-.00009

RUN NO. 265/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.673	-.113	-.03278	-.10878	-16.17440	.78267	.04551	.02791	-.00007	-.00267
44.791	2.534	-.03643	-.11525	.82395	.63500	.04180	.24735	.00072	-.00280
44.852	4.379	-.03440	-.10459	.45049	.48893	.03181	.40236	.00077	-.00234
GRADIENT		-.00043	.00070	3.89001	-.06473	-.00293	.08333	.00019	-.00006

RUN NO. 266/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.205	-.137	-.03225	-.11579	-13.25630	.83308	.04470	.01267	.00013	-.00275
50.115	2.437	-.03746	-.11531	.88102	.64198	.04219	.23900	.00047	-.00288
50.310	4.427	-.03580	-.11520	.46373	.53666	.03136	.41490	.00051	-.00243
GRADIENT		-.00084	.00013	3.12501	-.06539	-.00283	.08812	.00009	-.00007

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH028) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 281/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.140	2.460	-.02782	-.11208	.64808	.77724	.04294	.18547	.00020	-.00173
3.154	4.481	-.02861	-.12642	.36616	.70129	.03251	.35561	.00049	-.00155
GRADIENT		-.00039	-.00709	-.13947	-.03757	-.00516	.08417	.00014	-.00009

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (ANH028) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = 10.000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 282/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	7.424	2.022	-.02526	-.11428	.71587	.80635	.04421	.16220	.00018	-.00147
	7.204	4.410	-.02631	-.11343	.34213	.63461	.03284	.36466	.00022	-.00120
GRADIENT			-.00044	.00035	-.5652	-.07193	-.00476	.08478	.00001	.00011

RUN NO. 283/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	9.851	2.068	-.02201	-.10749	.60993	.75603	.04419	.17496	.00015	-.00118
	9.970	4.488	-.02315	-.11604	.29588	.64226	.03251	.37454	.00046	-.00094
GRADIENT			-.00047	-.00353	-.12981	-.04702	-.00482	.08250	.00013	.00010

RUN NO. 284/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	14.671	2.026	-.02188	-.11676	.61866	.82708	.04444	.18364	.00004	-.00100
	14.337	4.481	-.01949	-.10932	.24945	.60938	.03262	.38383	.00054	-.00063
GRADIENT			.00097	.00303	-.15039	-.08868	-.00482	.08154	.00020	.00015

RUN NO. 285/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	29.878	2.180	-.03009	-.11357	.79114	.78798	.04370	.21450	.00067	-.00214
	29.674	4.515	-.03186	-.11495	.40467	.63585	.03175	.41166	.00045	-.00189
GRADIENT			-.00076	-.00059	-.16549	-.06514	-.00512	.08443	-.00010	.00011

RUN NO. 286/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	44.780	2.093	-.03422	-.10437	.93679	.73323	.04355	.21873	.00083	-.00267
	45.100	4.521	-.03663	-.11710	.46462	.64384	.03115	.42416	.00106	-.00254
GRADIENT			-.00099	-.00524	-.19445	-.03681	-.00511	.08460	.00009	.00005

RUN NO. 287/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	50.200	2.061	-.03561	-.11216	.99020	.79184	.04352	.22318	.00063	-.00274
	50.258	4.539	-.03511	-.10756	.44362	.59229	.03004	.43767	.00099	-.00236
GRADIENT			.00020	.00186	-.22054	-.08052	-.00544	.08655	.00014	.00015

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH029)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	5.000	.000
ELEVON =	.000	.000
DX =	10.000	8.000
MACH =	.600	.000

BETA =	-5.00/ 5.00
RUDDER =	
IORB =	
DY =	

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.465	-.11389	-.02502	.58170	.63429	.04159	.17276	.00036	-.00144
4.442	-.11296	-.02878	.37160	.52553	.03147	.33753	.00033	-.00140
GRADIENT	.00047	-.00190	-.10624	-.05500	-.00512	.08332	-.00002	.00002

DZ 7.274, 7.616

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.057	-.10716	-.02401	.66883	.60698	.04294	.14820	.00063	-.00144
4.486	-.11457	-.02501	.31970	.53198	.03142	.34984	.00074	-.00114
GRADIENT	-.00305	-.00041	-.14370	-.03087	-.00474	.08299	.00005	.00012

DZ 10.037, 10.105

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.020	-.11692	-.01983	.56255	.66418	.04367	.15992	.00012	-.00095
4.412	-.11088	-.02121	.27569	.51875	.03218	.35643	.00057	-.00078
GRADIENT	.00252	-.00058	-.11990	-.06079	-.00480	.08214	.00019	.00007

DZ 15.073, 14.864

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.128	-.11207	-.02803	.75465	.62962	.04343	.20008	.00015	-.00177
4.510	-.11126	-.02957	.37609	.51976	.03155	.39493	.00051	-.00163
GRADIENT	.00034	-.00065	-.15896	-.04781	-.00499	.08182	.00015	.00006

DZ 30.231, 29.953

RUN NO. 295/ 0   RN/L = 3.23   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.087	-.11354	-.03479	.95549	.64550	.04360	.21120	.00042	-.00263
4.446	-.12021	-.03809	.49137	.55913	.03114	.41183	.00054	-.00255
GRADIENT	-.00283	-.00140	-.19673	-.03661	-.00528	.08505	.00005	.00003

DZ 44.559, 45.001

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.027	-.11315	-.03444	.97390	.64654	.04337	.20876	.00086	-.00271
4.547	-.11536	-.03375	.42574	.53117	.03020	.42154	.00134	-.00232
GRADIENT	-.00088	.00028	-.21753	-.04578	-.00523	.08444	.00019	.00016

DZ 50.108, 50.709

ARC 14-120(CA23B) .747/1 AT1 O3S1 (CARRIER DATA)   (ANH03O)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 301/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.474	7.146	-.02651	-.11428	.61408	.63624	.04081	.18259	.00091	-.00168
4.355	7.541	-.02875	-.11298	.37869	.52350	.03087	.34044	.00101	-.00159
GRADIENT		-.00119	.00069	-.12521	-.05678	-.00529	.08396	.00006	.00005

RUN NO. 302/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.021	10.020	-.02499	-.11534	.70857	.65572	.04241	.15880	.00066	-.00153
4.495	10.077	-.02706	-.10935	.34524	.50770	.03022	.35988	.00074	-.00137
GRADIENT		-.00084	.00242	-.14686	-.05983	-.00493	.08128	.00004	.00006

RUN NO. 303/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.172	14.887	-.02278	-.11210	.60106	.62932	.04240	.17900	.00043	-.00126
4.441	14.608	-.02442	-.10951	.31542	.51218	.03116	.36581	.00086	-.00111
GRADIENT		-.00072	.00118	-.12592	-.05164	-.00496	.08235	.00019	.00007

RUN NO. 304/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.934	30.123	-.02643	-.11172	.78313	.63959	.04302	.18394	.00056	-.00185
4.549	29.781	-.02982	-.11666	.37597	.54039	.03018	.40628	.00132	-.00180
GRADIENT		-.00130	.00189	-.15569	-.03793	-.00491	.08502	.00029	.00002

RUN NO. 305/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.080	44.889	-.03388	-.11196	.93332	.63408	.04324	.21845	.00043	-.00261
4.413	44.724	-.03469	-.11582	.45093	.54147	.03135	.40179	.00092	-.00241
GRADIENT		-.00035	.00165	-.20679	-.03970	-.00509	.07860	.00021	-.00008

RUN NO. 306/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.067	50.425	-.03405	-.10641	.94413	.60343	.04308	.21393	.00106	-.00275
4.416	50.408	-.03800	-.11483	.49362	.53565	.03080	.41687	.00071	-.00261
GRADIENT		-.00168	.00358	-.19182	-.02886	-.00523	.08641	.00015	-.00006

ARC 14-120(CA23B)   747/1 AT1 035I (CARRIER DATA)   (ANH031)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.440	-.02506	-.11848	.58862	.81921	.04241	.19527	.00073	-.00158
4.374	-.02510	-.12080	.32910	.67753	.03229	.36527	.00039	-.00123
GRADIENT	-.00002	-.00120	-.13415	-.07324	-.00523	.08788	-.00017	.00018

DZ
7.139
7.034

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.989	-.02412	-.11866	.69479	.84432	.04362	.17083	.00048	-.00148
4.549	-.02404	-.11577	.30304	.63820	.03110	.38943	.00081	-.00106
GRADIENT	.00003	.00113	-.15301	-.08051	-.00489	.08538	.00013	.00016

DZ
9.707
9.890

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.961	-.02152	-.11919	.62868	.84748	.04404	.17594	.00115	-.00121
4.524	-.02343	-.11366	.29706	.62948	.03156	.39715	.00039	-.00089
GRADIENT	-.00075	.00216	-.12939	-.08506	-.00487	.08631	-.00030	.00013

DZ
14.857
14.654

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.982	-.03245	-.11754	.93809	.83690	.04426	.19964	.00054	-.00237
4.262	-.02852	-.11253	.38367	.63688	.03326	.39358	.00084	-.00179
GRADIENT	.00173	.00220	-.24316	-.08772	-.00482	.08506	.00013	.00026

DZ
29.665
29.802

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.970	-.03314	-.11820	.96397	.84522	.04408	.21468	.00030	-.00254
4.370	-.03955	-.11536	.51921	.64588	.03183	.41665	.00082	-.00272
GRADIENT	-.00267	.00118	-.18536	-.08307	-.00511	.08417	.00022	-.00007

DZ
44.676
44.732

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.003	-.03506	-.10948	1.00299	.77825	.04389	.21639	.00070	-.00270
4.371	-.03608	-.10926	.47336	.61233	.03155	.42063	.00096	-.00247
GRADIENT	-.00043	.00009	-.22363	-.07006	-.00521	.08624	.00011	.00010

DZ
50.207
50.098

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (ANH032)   (08 OCT 75)

REFERENCE DATA

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

BETA =	
RUDDER =	
IORB =	
DY =	

PARAMETRIC DATA

STAB =	.000	5.000
ELEVON =	.000	.000
DX =	6.000	.000
MACH =	10.000	.600

RUN NO. 321/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.217	2.384	-.03589	-.08529	.86275	.59455	.04338	.17198	.00496	-.00545
3.310	4.324	-.03078	-.06925	.40825	.38910	.03422	.33186	.00611	-.00534
	GRADIENT	.00263	.00827	-.23423	-.10588	-.00472	.08240	.00059	.00006

RUN NO. 322/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.247	1.999	-.03140	-.08867	.90034	.63058	.04416	.15742	.00398	-.00436
7.563	4.379	-.01534	-.08216	.20086	.45887	.03364	.35237	.00537	-.00283
	GRADIENT	.00675	.00274	-.29381	-.07212	-.00442	.08189	.00059	.00064

RUN NO. 323/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.032	1.980	-.02575	-.08306	.74527	.58939	.04427	.15944	.00397	-.00344
9.896	4.367	-.00963	-.07727	.12651	.43300	.03408	.35473	.00478	-.00190
	GRADIENT	.00675	.00242	-.25922	-.06552	-.00427	.08181	.00034	.00065

RUN NO. 324/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.217	2.049	-.01481	-.08945	.41438	.62806	.04426	.17860	.00302	-.00182
15.047	4.248	-.00044	-.07449	.00590	.42100	.03468	.36018	.00318	-.00022
	GRADIENT	.00654	.00680	-.18569	-.09413	-.00436	.08255	.00007	.00073

RUN NO. 325/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.998	1.976	-.00706	-.09627	.20473	.68540	.04426	.19673	.00158	-.00007
29.890	4.301	.00614	-.08313	-.08191	.46823	.03341	.39060	.00192	.00146
	GRADIENT	.00568	.00565	-.12326	-.09339	-.00467	.08337	.00015	.00066

RUN NO. 326/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.648	1.958	-.01315	-.09255	.38496	.66315	.04378	.20813	.00130	-.00058
44.989	4.325	-.00801	-.09105	.10617	.51052	.03266	.40656	.00162	.00021
	GRADIENT	.00217	.00063	-.11780	-.06445	-.00470	.08384	.00013	.00033

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH032)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	6.000	DX = .000
DY =	10.000	MACH = .600

RUN NO. 327/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.969	-.01805	-.09477	.52540	.67894	.04393	.21535	.00078	-.00091
4.264	-.01263	-.09327	.16993	.52712	.03290	.40340	.00156	-.00023
GRADIENT	.00236	.00065	-.15489	-.06615	-.00481	.08194	.00034	.00030

DZ
49.978
50.163

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH033)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	8.000	DX = .000
DY =	10.000	MACH = .600

RUN NO. 331/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.446	-.02145	-.07366	.50255	.41024	.04160	.16438	.00524	-.00365
4.292	-.00208	-.07009	.02781	.32960	.03301	.31096	.00611	-.00171
GRADIENT	.01050	.00194	-.25727	-.04370	-.00466	.07943	.00047	.00105

DZ
7.500
7.613

RUN NO. 332/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.907	-.01773	-.07840	.53273	.44991	.04291	.12322	.00538	-.00298
4.322	.00573	-.07059	-.07601	.33288	.03292	.32276	.00575	-.00050
GRADIENT	.00971	.00323	-.25205	-.04845	-.00414	.08262	.00015	.00103

DZ
10.263
9.859

RUN NO. 333/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.933	-.00765	-.08521	.22675	.48908	.04324	.14293	.00377	-.00132
4.327	.01880	-.07346	-.24911	.34564	.03314	.34060	.00413	-.00157
GRADIENT	.01105	.00491	-.19876	-.05992	-.00422	.08257	.00015	.00121

DZ
15.012
14.957

RUN NO. 334/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.958	.00868	-.08245	-.25403	.47344	.04356	.17648	.00189	.00145
4.362	.02584	-.07647	-.33975	.35859	.03282	.37993	.00202	.00359
GRADIENT	.00714	.00249	-.03565	-.04777	-.00451	.08462	.00005	.00089

DZ
29.834
29.957

ARC 14-120(CA23B)   747/1 ATI 03S1 (CARRIER DATA)   (ANH033)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 335/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.871	44.819	-.00446	-.08594	.13655	.49825	.04421	.19255	.00100	.00042
4.278	45.000	.00050	-.08435	-.00674	.39760	.03330	.39110	.00178	.00116
GRADIENT		.00206	.00066	-.35955	-.04182	-.00453	.08251	.00032	.00031

RUN NO. 336/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.913	50.002	-.01351	-.09054	.40462	.52405	.04380	.19634	.00111	-.00041
4.260	50.443	-.00681	-.08550	.09174	.40359	.03285	.39378	.00196	.00039
GRADIENT		.00285	.00215	-.13329	-.05132	-.00467	.08411	.00036	.00034

ARC 14-120(CA23B)   747/1 ATI 03S1 (CARRIER DATA)   (ANH034)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 341/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.031	1.515	-.04077	-.11284	-53.38770	1.09762	.04577	-.04943	-.00008	-.00333
2.266	1.466	-.04009	-.11407	1.01357	.81035	.04467	.14981	.00043	-.00301
4.259	1.364	-.04164	-.10998	.56061	.62495	.03596	.31093	.00041	-.00290
GRADIENT		-.00019	.00064	12.78561	-.11056	-.00224	.08408	.00012	.00010

RUN NO. 342/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.127	3.218	-.03788	-.10795	-16.57080	1.02545	.04538	-.04756	.00057	-.00329
2.324	2.877	-.04051	-.10599	.99894	.74601	.04454	.16080	.00041	-.00308
4.353	3.380	-.04091	-.10964	.53900	.61357	.03547	.32450	.00026	-.00283
GRADIENT		-.00069	-.00034	3.93383	-.09269	-.00215	.08311	-.00007	.00010

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (ANH034)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = -5.00/ 5.00	STAB = .000	5.000
RUDDER =	ELEVON = .000	.000
1ORB =	DX = 6.000	.000
DY =	MACH = .000	.600

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.400	-.285	-.03668	-.10742	-7.34571	1.04426	.04569	-.04320	-.00018	-.00303
7.390	2.312	-.03617	-.10413	.89645	.72987	.04469	.17520	.00047	-.00266
7.046	4.212	-.03508	-.10322	.47763	.58785	.03614	.32819	.00054	-.00231
GRADIENT		.00035	.00095	1.82472	-.10268	-.00202	.08268	.00017	.00016

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.858	-.243	-.03420	-.10667	-8.02130	1.03142	.04579	-.03184	.00022	-.00280
9.870	2.334	-.03433	-.10466	.84303	.73083	.04458	.18113	.00039	-.00250
9.840	4.253	-.03249	-.09942	.43814	.56184	.03595	.33823	.00055	-.00203
GRADIENT		.00036	.00157	1.96825	-.10513	-.00209	.08234	.00007	.00017

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.745	-.254	-.03016	-.10281	-6.76144	.99812	.04579	-.02583	-.00007	-.00233
14.663	2.332	-.03132	-.10222	.76959	.71547	.04450	.19634	.00005	-.00198
14.715	4.248	-.02981	-.09946	.40248	.56279	.03564	.35308	.00061	-.00157
GRADIENT		.00005	.00071	1.66604	-.09741	-.00216	.08426	.00015	.00017

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.743	-.267	-.03699	-.10822	-7.87449	1.05513	.04593	-.00297	-.00034	-.00293
29.911	2.360	-.03586	-.10457	.89504	.72658	.04382	.22281	.00040	-.00268
29.627	4.268	-.03291	-.09353	.44225	.52895	.03431	.38377	.00015	-.00196
GRADIENT		.00085	.00313	1.92536	-.11658	-.00245	.08532	.00012	.00021

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.607	-.235	-.03951	-.09929	-9.54070	.96563	.04579	.01585	-.00015	-.00323
44.784	2.345	-.03779	-.10021	.92333	.69784	.04305	.23859	.00071	-.00300
44.631	4.291	-.03806	-.10475	.50863	.59033	.03297	.40265	.00064	-.00268
GRADIENT		.00034	-.00116	2.31764	-.08403	-.00274	.08551	.00018	.00012

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (ANH034) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 348/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.960	-.239	-.03498	-.10695	-8.32467	1.04302	.04538	.01532	.00043	-.00299
50.084	2.361	-.03742	-.10326	.90826	.71885	.04270	.24095	.00079	-.00289
50.051	4.269	-.03761	-.09959	.50525	.56278	.03249	.40626	.00122	-.00267
GRADIENT		-.00060	.00162	2.05183	-.10759	-.00275	.08672	.00017	.00007

RUN NO. 349/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
61.655	-.279	-.03495	-.09233	-7.14063	.90528	.04529	.01672	.00046	-.00302
61.629	2.289	-.03743	-.10631	.93720	.74681	.04270	.24442	.00037	-.00282
61.640	4.275	-.03481	-.09504	.46705	.53658	.03227	.41283	.00096	-.00236
GRADIENT		-.00002	-.00083	1.74123	-.08005	-.00277	.08707	.00010	.00014

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (ANH035) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 351/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.392	.007	-.03028	-.11846	76.95740	1.69980	.04772	-.00122	-.00044	-.00206
3.273	2.270	-.02773	-.12457	.70017	1.16320	.04590	.19054	.00030	-.00169
3.233	4.244	-.02798	-.11301	.37812	.79606	.03646	.35369	.00032	-.00134
GRADIENT		.00056	.00119	-18.45311	-.21364	-.00261	.08379	.00018	.00017

RUN NO. 352/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.633	-.212	-.03062	-.11798	-8.22679	1.68804	.04730	-.00535	-.00041	-.00214
7.582	2.387	-.02923	-.11905	.70182	1.08391	.04507	.21130	.00026	-.00171
7.362	4.282	-.02756	-.11699	.36910	.81823	.03617	.36508	.00007	-.00125
GRADIENT		.00067	.00018	2.00402	-.19589	-.00238	.08249	.00009	.00020

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (ANH035)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB   = .000   5.000
ELEVON = .000   .000
DX   = 4.000   .000
MACH   = .000   .600

BETA   =
RUDDER =
IORB   =
DY   =

RUN NO. 353/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.664	-.213	-.02937	-.12461	-7.85370	1.80764	.04710	.00029	.00021	-.00212
9.916	2.313	-.02941	-.12008	.72877	1.10894	.04491	.21517	.00017	-.00166
9.803	4.259	-.02743	-.12130	.36932	.85163	.03557	.37212	.00003	-.00115
GRADIENT		.00041	.00079	1.91436	-.21682	-.00249	.08324	-.00004	.00021

RUN NO. 354/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.113	-.270	-.02868	-.11769	-6.07208	1.70827	.04675	.00218	-.00024	-.00188
14.808	2.324	-.02760	-.11866	.68053	1.09587	.04470	.22477	-.00039	-.00134
14.693	4.304	-.02537	-.11239	.33796	.78558	.03484	.38528	.00034	-.00100
GRADIENT		.00071	.00108	1.46207	-.20346	-.00251	.08386	.00012	.00019

RUN NO. 355/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.891	-.272	-.03499	-.11983	-7.33018	1.75519	.04614	.01388	.00041	-.00274
29.979	2.346	-.03719	-.11686	.90855	1.07113	.04352	.24198	.00062	-.00262
29.891	4.294	-.03471	-.11535	.46363	.80534	.03309	.40999	.00060	-.00210
GRADIENT		.00001	.00099	1.78730	-.21102	-.00275	.08678	.00004	.00014

RUN NO. 356/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.449	-.271	-.03778	-.11801	-7.92866	1.75263	.04603	.02673	.00012	-.00304
44.799	2.322	-.03663	-.11132	.90396	1.02451	.04308	.24316	.00028	-.00261
44.865	4.260	-.03708	-.10619	.49913	.74408	.03249	.41506	.00059	-.00237
GRADIENT		.00017	.00261	1.94455	-.22576	-.00289	.08557	.00010	.00015

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (ANH036) (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = 10.000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 361/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.654	2.302	-.18193	-.13030	4.52066	.91938	.04539	.15712	.00266	-.02016
2.469	4.194	-.18847	-.12992	2.57555	.73367	.03703	.30922	.00215	-.02057
	GRADIENT	-.00346	.00020	-1.02807	-.09815	-.00442	.08039	-.00027	-.00021

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.877	2.012	-.18082	-.12648	5.13611	.90360	.04591	.14175	.00279	-.02015
3.365	4.405	-.18854	-.12935	2.45340	.72225	.03517	.33768	.00264	-.02058
	GRADIENT	-.00322	-.00120	-1.12130	-.07580	-.00449	.08189	-.00006	-.00018

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.393	2.013	-.18941	-.13656	5.37556	.96700	.04608	.15863	.00294	-.02110
7.226	4.376	-.19125	-.13052	2.50473	.73206	.03552	.35030	.00214	-.02113
	GRADIENT	-.00078	.00255	-1.21489	-.09942	-.00447	.08111	-.00034	-.00001

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.858	2.049	-.19109	-.13563	5.32907	.95756	.04602	.16917	.00319	-.02145
10.104	4.457	-.19254	-.12677	2.47594	.70225	.03498	.36209	.00282	-.02134
	GRADIENT	-.00060	.00368	-1.18471	-.10601	-.00458	.08011	-.00015	.00004

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.553	2.097	-.19291	-.13410	5.25682	.94518	.04596	.18493	.00346	-.02169
14.643	4.474	-.19407	-.12353	2.48618	.68639	.03433	.38192	.00252	-.02149
	GRADIENT	-.00049	.00445	-1.16554	-.10887	-.00489	.08287	-.00039	.00008

RUN NO. 366/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.819	2.159	-.20804	-.12862	5.50419	.89724	.04505	.21804	.00384	-.02354
29.992	4.411	-.20777	-.12161	2.69968	.67676	.03354	.40509	.00285	-.02320
	GRADIENT	.00012	.00312	-1.24576	-.09794	-.00511	.08309	-.00044	.00015

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA) (ANH036) (21 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000 STAB = 5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	10.000 ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB =	6.000 DX = .000
SCALE =	.0125			DY =	.000 MACH = .600

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.052	-.21159	-.12790	5.88810	.90037	.04478	.21780	.00425	-.02408
4.371	-.21604	-.12616	2.83211	.70425	.03346	.40927	.00284	-.02397
GRADIENT	-.00192	.00075	-1.31772	-.08456	-.00488	.08256	-.00061	.00005

DZ 45.057
44.937

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.015	-.21146	-.12804	5.99192	.91029	.04507	.20757	.00383	-.02414
4.439	-.21307	-.12437	2.75051	.69045	.03190	.43272	.00282	-.02375
GRADIENT	-.00066	.00151	-1.33703	-.09068	-.00543	.09287	-.00042	.00016

DZ 50.129
50.420

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.140	-.21075	-.12489	5.62690	.87077	.04410	.24024	.00380	-.02381
4.416	-.21097	-.12303	2.73775	.68473	.03225	.42781	.00308	-.02353
GRADIENT	-.00010	.00082	-1.26898	-.08171	-.00520	.08239	-.00032	.00012

DZ 62.057
61.853

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA) (ANH037) (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000 STAB = -1.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000 ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB =	6.000 DX = .000
SCALE =	.0125			DY =	.000 MACH = .600

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIJ	CA	CN	CSL	CLN
.521	-.02268	-.12383	2.49361	1.12166	.04588	-.06024	.00065	-.00159
2.297	-.02549	-.11879	.63611	.82874	.04357	.08164	.00035	-.00144
4.335	-.02949	-.11948	.39023	.67006	.03334	.24508	.00055	-.00129
GRADIENT	-.00179	.00110	-.54099	-.11742	-.00333	.08006	-.00002	.00008

DZ 1.955
1.879
1.932

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (ANH037)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB =	-1.000
ELEVON =	.000
DX =	.000
MACH =	.600

BETA =	.000
RUDDER =	.000
1ORB =	6.000
DY =	.000

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.611	-.073	-.02496	-.13684	-18.87120	1.27886	.04527	-.10928	-.00014	-.00184
3.412	2.415	-.02272	-.12938	.53920	.89499	.04309	.09675	.00056	-.00120
3.341	4.372	-.03116	-.13064	.40870	.73005	.03310	.25059	.00066	-.00137
GRADIENT		-.00129	.00147	4.49081	-.12483	-.00266	.08104	.00018	.00011

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.238	-.184	-.01792	-.12654	-5.57095	1.21514	.04528	-.10351	-.00019	-.00121
7.611	2.515	-.02420	-.13121	.55136	.89448	.04269	.12077	.00012	-.00112
7.497	4.363	-.02543	-.11746	.33426	.65536	.03273	.26602	.00034	-.00090
GRADIENT		-.00170	.00173	1.36990	-.12281	-.00263	.08141	.00012	.00007

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.003	-.096	-.01856	-.12574	-10.99320	1.18499	.04562	-.08920	-.00035	-.00119
9.942	2.401	-.01770	-.12665	.42264	.87619	.04287	.11023	.00077	-.00068
10.030	4.474	-.02513	-.12354	.32219	.68248	.03153	.28451	.00035	-.00087
GRADIENT		-.00138	.00045	2.54688	-.11044	-.00302	.08172	.00016	.00008

RUN NO. 375/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.990	-.036	-.01580	-.12958	23.75730	1.19552	.04587	-.06671	-.00021	-.00086
14.729	2.374	-.01943	-.12262	.46896	.85170	.04305	.11763	.00005	-.00062
14.795	4.458	-.02101	-.11862	.27023	.65750	.03151	.29133	.00021	-.00048
GRADIENT		-.00119	.00249	-5.40509	-.12218	-.00321	.08092	.00009	.00009

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.795	-.037	-.02028	-.12696	-29.04110	1.19126	.04558	.05280	-.00014	-.00147
29.929	2.359	-.02769	-.12652	.67263	.87782	.04209	.13713	.00045	-.00161
30.138	4.506	-.02850	-.12061	.36271	.66310	.02943	.32413	.00067	-.00137
GRADIENT		-.00183	.00137	6.58687	-.11655	-.00352	.08290	.00012	.00002

DATE 22 MAR 76 TABULATED SOURCE DATA - CA23B

REFERENCE DATA

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

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)

(ANH037) (08 OCT 75)

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
45.027	-.096	-.02469	-.12014	-14.48000	1.13302	.04468	-.06533	.00006	.00194
44.952	2.497	-.02998	-.12302	.63807	.83991	.04052	.17242	.00059	.00185
44.914	4.260	-.03340	-.12386	.44955	.69755	.02981	.32406	.00060	.00195
GRADIENT		-.00200	-.00087	3.50822	-.10094	-.00328	.08956	.00013	.00000

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.481	.036	-.02125	-.11717	30.85850	1.08333	.04525	-.03388	.00032	-.00168
50.592	2.316	-.03099	-.12711	.76690	.88282	.04129	.15505	.00057	-.00195
50.369	4.524	-.03501	-.11877	.44383	.65317	.02793	.34645	.00068	-.00206
GRADIENT		-.00307	-.00038	-6.81333	-.09579	-.00385	.08472	.00008	-.00008

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
61.632	-.013	-.02570	-.12245	-62.78220	1.15102	.04528	-.03088	-.00001	-.00195
61.965	2.379	-.02957	-.12133	.71238	.83841	.04060	.16759	.00058	-.00180
61.651	4.408	-.03202	-.11829	.41654	.65927	.02819	.34307	.00056	-.00184
GRADIENT		-.00143	.00093	14.65652	-.11180	-.00381	.08453	.00013	.00003

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)

REFERENCE DATA

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

(ANH038) (08 OCT 75)

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.603	.046	-.03585	-.12129	37.71810	1.16331	.04455	-.04877	-.00003	-.00290
1.569	2.293	-.03898	-.12271	.97421	.86754	.04295	.14601	-.00018	-.00274
2.306	4.387	-.04440	-.12060	.58044	.66987	.03290	.31015	-.00004	-.00302
GRADIENT		-.00196	.00015	-8.65058	-.11390	-.00266	.08274	.00002	-.00003

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA) (ANHO3B) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000 STAB = 5.000
RUDDER = .000 ELEVON = 5.000
IORB = 6.000 DX = .000
DY = .000 MACH = .600

RUN NO. 382/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.468	.019	-.04292	-.12442	65.58800	1.15052	.04450	-.03663	.00028	-.00374
3.699	2.422	-.04300	-.12381	1.01754	.85131	.04239	.15769	.00025	-.00324
3.469	4.425	-.04540	-.12016	.58844	.66722	.03290	.31758	.00024	-.00321
GRADIENT		-.00055	.00094	-15.15230	-.11019	-.00258	.08042	-.00001	.00012

RUN NO. 383/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.736	-.027	-.03671	-.11960	-53.27060	1.10916	.04479	-.02846	.00006	-.00299
6.902	2.422	-.04018	-.12460	.95082	.86612	.04257	.17397	.00007	-.00293
7.339	4.419	-.04382	-.12334	.56875	.68592	.03275	.33682	-.00019	-.00301
GRADIENT		-.00159	-.00089	12.48313	-.09535	-.00264	.08218	-.00005	-.00000

RUN NO. 384/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.309	.047	-.03699	-.12375	38.45710	1.13445	.04508	-.01411	-.00010	-.00287
9.703	2.409	-.03787	-.12099	.90067	.83905	.04293	.18006	.00008	-.00274
10.031	4.489	-.04151	-.11816	.53038	.65168	.03233	.34932	.00002	-.00285
GRADIENT		-.00100	.00126	-8.70301	-.10905	-.00283	.08181	.00003	.00001

RUN NO. 385/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.037	-.141	-.03593	-.11641	-14.34110	1.10172	.04444	-.03650	-.00002	-.00294
14.866	2.495	-.03772	-.12284	.86659	.84153	.04262	.20187	.00015	-.00273
14.670	4.418	-.03729	-.12257	.48407	.66098	.03249	.36116	.00041	-.00253
GRADIENT		-.00032	-.00142	3.40255	-.09268	-.00251	.08743	.00009	.00009

RUN NO. 386/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
30.004	-.165	-.03289	-.12310	-11.30050	1.17505	.04524	.00925	.00036	-.00272
29.816	2.497	-.03586	-.11997	.82315	.82081	.04229	.23089	.00046	-.00270
30.280	4.402	-.03419	-.11822	.44541	.65465	.03273	.38041	.00078	-.00239
GRADIENT		-.00034	.00108	2.69869	-.11518	-.00263	.08140	.00009	.00007

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

(ANH038) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 387/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.070	-.03347	-.12025	25.58280	1.11116	.04570	.04418	-.00008	-.00263
2.481	-.03546	-.12293	.81918	.83934	.04224	.24503	-.00002	-.00254
4.448	-.03751	-.11277	.48369	.62394	.03134	.41182	-.00045	-.00254
4.926	-.00092	.00160	-5.90136	-.11134	-.00321	.08395	.00012	.00002

DZ
44.879
44.946
44.926
GRADIENT

RUN NO. 388/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.037	-.03541	-.12247	-44.04270	1.15620	.04573	.03766	-.00033	-.00283
2.513	-.03630	-.12127	.82787	.82743	.04187	.25697	.00015	-.00269
4.284	-.03528	-.12302	.47228	.68898	.03253	.39893	.00090	-.00245
	.00000	-.00009	10.81298	-.10959	-.00295	.08378	.00028	.00009

DZ
49.971
50.192
50.609
GRADIENT

RUN NO. 389/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.115	-.03365	-.12518	-16.33250	1.19977	.04506	.02070	-.00017	-.00272
2.529	-.03464	-.12084	.78499	.83717	.04177	.26101	.00028	-.00257
	-.00038	.00164	6.47423	-.13714	-.00124	.09089	.00017	.00006

DZ
61.515
60.520
GRADIENT

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(ANH039) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 391/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.388	-.18785	-.12482	4.49942	.87245	.04328	.14889	.00228	-.02007
4.263	-.18878	-.11294	2.53815	.63710	.03453	.29800	.00227	-.02008
3.390	-.00050	.00634	-1.04514	-.12554	-.00466	.07953	-.00001	-.00000

DZ
3.148
3.390
GRADIENT

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (ANH039)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB	=	5.000
ELEVON	=	5.000
DX	=	.000
MACH	=	.600

BETA	=	.000
RUDDER	=	10.000
IORB	=	6.000
DY	=	.000

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.312	2.139	-.19944	-.13097	5.32723	.91607	.04424	.14616	.00311	-.02158
7.376	4.461	-.20873	-.12354	2.68162	.68560	.03325	.34024	.00171	-.02219
	GRADIENT	-.00400	.00320	-1.13959	-.09928	-.00473	.08360	-.00060	-.00026

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.885	2.001	-.20379	-.12519	5.81649	.88852	.04486	.14403	.00321	-.02218
10.083	4.424	-.21043	-.12231	2.72628	.67971	.03466	.32960	.00230	-.02257
	GRADIENT	-.00274	.00119	-1.27561	-.08619	-.00421	.07660	-.00038	-.00016

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.083	2.141	-.21222	-.12298	5.66248	.85717	.04480	.17058	.00368	-.02324
14.830	4.433	-.21434	-.12295	2.77127	.68384	.03431	.35061	.00263	-.02316
	GRADIENT	-.00093	.00001	-1.26160	-.07564	-.00458	.07856	-.00046	.00004

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.781	2.045	-.22127	-.12536	6.17644	.88750	.04518	.18664	.00389	-.02443
29.790	4.494	-.22565	-.12372	2.87720	.68440	.03285	.39477	.00354	-.02458
	GRADIENT	-.00179	.00067	-1.34699	-.08292	-.00503	.08497	-.00014	-.00006

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.565	2.160	-.22269	-.12330	5.88804	.86363	.04445	.21771	.00389	-.02459
44.873	4.367	-.22366	-.12144	2.93447	.67831	.03358	.39810	.00269	-.02431
	GRADIENT	-.00044	.00084	-1.33798	-.08395	-.00493	.08172	-.00055	.00013

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.286	2.123	-.22107	-.12019	5.94619	.84223	.04454	.21610	.00386	-.02441
50.569	4.396	-.22250	-.11875	2.90042	.65977	.03398	.40454	.00294	-.02421
	GRADIENT	-.00063	.00063	-1.34005	-.08027	-.00504	.08291	-.00040	-.00009

ARC 14-120(CA23B)   747/1 ATI 0251 (CARRIER DATA)   (ANM040)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 401/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN	DZ
-.004	-.12383	-.04526	-84.40930	1.79753	.04628	-.02135	-.00011	-.00366	3.048
2.318	-.12449	-.04739	1.17152	1.15912	.04459	.18288	-.00012	-.00366	3.021
4.401	-.12570	-.04833	.62992	.86840	.03425	.34984	.00011	-.00345	3.274
GRADIENT	-.00042	-.00070	10.64100	-.21215	-.00269	.08434	.00005	.00005	

RUN NO. 402/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN	DZ
-.091	-.12340	-.04561	-26.59500	1.74014	.04654	-.01314	-.0048	-.00381	7.066
2.490	-.12280	-.04595	1.05741	1.10813	.04401	.20386	.00019	-.00363	7.198
4.405	-.12015	-.04855	.63211	.82845	.03412	.35950	.00019	-.00347	7.335
GRADIENT	.00070	-.00062	6.31765	-.20513	-.00266	.08294	.00015	.00008	

RUN NO. 403/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN	DZ
.024	-.12556	-.04725	63.05230	1.71279	.04655	.00435	.00004	-.00396	9.793
2.449	-.12467	-.04658	1.09000	1.12877	.04395	.20503	.00048	-.00369	9.766
4.293	-.12001	-.04791	.63994	.83988	.03480	.35816	.00004	-.00341	9.745
GRADIENT	.00125	-.00013	-15.17967	-.20634	-.00267	.08287	.00001	.00013	

RUN NO. 404/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN	DZ
-.155	-.12009	-.04369	-15.70640	1.70846	.04586	-.01378	-.00011	-.00377	14.781
2.568	-.11619	-.04618	1.03042	1.03612	.04318	.23460	.00022	-.00355	14.685
4.303	-.11327	-.04516	.60193	.73139	.03454	.36962	.00031	-.00320	14.592
GRADIENT	.00152	-.00038	2.87923	-.29936	-.00240	.08646	.00010	.00012	

RUN NO. 405/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN	DZ
-.120	-.11880	-.03979	-18.37600	1.68114	.04575	.00947	-.00003	-.00324	29.804
2.563	-.12496	-.03976	.98999	1.10861	.04270	.25061	.00065	-.00294	29.944
4.329	-.11079	-.03620	.47959	.76992	.03353	.39347	.00054	-.00234	29.835
GRADIENT	.00147	.00074	4.47929	-.20554	-.00262	.08661	.00014	.00019	

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (ANH0401) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   = .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER = .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN ZC   IORB   = 4.000   DX   = .000
SCALE = .0125   DY   = .000   MACH   = .500

RUN NO. 406/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.515	-.091	-.03758	-.12018	-22.46140	1.70509	.04552	.02212	.00001	-.00298
44.728	2.446	-.03906	-.11965	.91512	1.08198	.04276	.24777	.00010	-.00278
44.671	4.476	-.03830	-.11246	.49076	.77014	.03144	.42570	.00056	-.00239
GRADIENT		-.00018	.00163	5.19729	-.20639	-.00300	.08839	.00012	.00013

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (ANH0411) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   = .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER = .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN ZC   IORB   = 4.000   DX   = .000
SCALE = .0125   DY   = .000   MACH   = .500

RUN NO. 411/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.328	2.137	-.03541	-.09515	.94918	.88790	.04425	.15651	.00002	-.00339
3.325	4.298	-.03664	-.09550	.48885	.66669	.03413	.33927	.00009	-.00331
GRADIENT		-.00057	-.00016	-.21302	-.10237	-.00468	.08458	.00003	.00004

RUN NO. 412/ 0   RN/L = 2.96   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
6.838	2.085	-.03560	-.09548	.97846	.69942	.04470	.17465	-.00019	-.00354
7.184	4.439	-.03628	-.09540	.46870	.65598	.03336	.35990	.00032	-.00326
GRADIENT		-.00029	.00003	.21656	-.10342	-.00482	.07870	.00022	.00012

RUN NO. 413/ 0   RN/L = 2.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.770	2.218	-.03337	-.09512	.86236	.86976	.04382	.18802	.00066	-.00336
9.780	4.469	-.03503	-.09551	.44953	.65318	.03316	.36342	.00074	-.00319
GRADIENT		-.00074	-.00018	-.18334	-.09618	-.00473	.07790	.00004	.00007

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (ANH041)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .500

RUN NO. 414/0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.986	-.03463	-.09972	.99901	.94498	.04479	.18170	-.00013	-.00342
4.441	-.03469	-.10173	.44801	.69804	.03274	.37930	.00036	-.00305
GRADIENT	-.00003	-.00082	-.22448	-.10060	-.00491	.08050	.00020	.00015

DZ 14.789 14.819

RUN NO. 415/0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.215	-.0319	-.09737	.82645	.89338	.04356	.22046	.00011	-.00293
4.415	-.03205	-.09720	.41654	.66870	.03164	.39953	.00066	-.00269
GRADIENT	-.00006	.00008	-.18633	-.10214	-.00542	.08140	.00025	.00011

DZ 29.638 29.826

RUN NO. 416/0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.214	-.02950	-.09702	.76327	.89411	.04273	.23787	.00064	-.00270
4.330	-.03196	-.09264	.42333	.64395	.03157	.41012	.00065	-.00260
GRADIENT	-.00117	.00207	-.16070	-.11826	-.00528	.08143	.00000	.00005

DZ 44.438 44.694

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (ANH042)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .300

RUN NO. 421/0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.209	-.01658	-.10574	.43017	.98557	.04639	.18514	-.00008	-.00334
4.221	-.01698	-.10352	.23072	.73034	.03627	.34643	-.00001	-.00315
GRADIENT	-.00020	.00110	-.09912	-.12683	-.00503	.08015	.00004	.00009

DZ 3.128 3.123

RUN NO. 422/0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.291	-.01571	-.10101	.39307	.92205	.04584	.21072	.00073	-.00313
4.347	-.01790	-.10423	.23609	.71971	.03530	.36398	.00038	-.00344
GRADIENT	-.00106	-.00157	-.07635	-.09841	-.00512	.07454	-.00017	-.00015

DZ 7.085 7.303

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (ANH042)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   =   5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON =   5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN. ZC   IORB   = 4.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .300

RUN NO. 423/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
2.180   -.01697   -.10209   .44607   .95456   .04639   .19880   -.00025 -.00334
4.347   -.01622   -.09942   .21396   .68472   .03476   .36855   .00056 -.00306
GRADIENT .00035   .00123 -.10711 -.12452 -.00536   .07833   .00038   .00013

DZ
9.285
9.970

RUN NO. 424/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
2.266   -.01640   -.10326   .41472   .94742   .04606   .21359   .00020 -.00319
4.354   -.01712   -.10167   .22551   .70320   .03422   .38437   .00016 -.00307
GRADIENT -.00035   .00077 -.09063 -.11698 -.00567   .08181   -.00002   .00005

DZ
14.488
14.575

RUN NO. 425/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
2.191   -.01582   -.10294   .41379   .95078   .04576   .22456   .00021 -.00293
4.292   -.01592   -.10150   .21265   .70620   .03389   .39944   -.00007 -.00260
GRADIENT -.00004   .00068 -.09574 -.11641 -.00565   .08324   -.00013   .00015

DZ
29.804
29.724

RUN NO. 426/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
2.202   -.01510   -.09798   .39313   .90420   .04482   .24004   -.00005 -.00263
4.266   -.01442   -.09990   .19389   .69668   .03247   .39671   .00036 -.00230
GRADIENT .00033   .00093 -.09653 -.10054 -.00599   .07590   .00020   .00016

DZ
44.766
44.688

ARC 14-120(CA23B) 747/1 ATI   (BNH004)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   = .000   STAB = -1.000
RUDDER = .000   MACH =   .600

RUN NO. 41/ 0   RN/L = 3.40   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
131.927	-5.187	-.52097	-1.25656	-.02663	-.01546	.08562
131.734	-3.684	-.62283	-.76289	-.03132	-.01962	.08387
131.595	-2.684	-.74482	-.48491	-.01759	-.00630	.09591
131.467	-1.696	-.94338	-.35535	-.02858	-.01713	.08374
131.339	-.712	-1.57780	-.25950	-.02820	-.01541	.08057
131.218	.186	-12.09710	-.22046	-.02643	-.00939	.08486
131.073	1.254	1.17060	-.17503	-.03114	-.01270	.08138
130.941	2.216	.45057	-.15610	-.01463	-.00024	.09595
130.802	3.190	.23009	-.14431	-.02742	-.01488	.07957
130.668	4.233	.10305	-.14223	-.02842	-.01055	.08388
130.501	5.283	.04378	-.14268	-.03335	-.01304	.08505
130.357	6.213	.01847	-.12300	-.03072	-.01016	.08062
130.219	7.193	-.00350	-.10308	-.02281	-.00170	.09595
130.047	8.200	.00293	-.06339	-.02845	-.00642	.08622
	GRADIENT	.20620	.06740	.00012	-.00081	-.00040

ARC 14-120(CA23B)　747/1 AT1　　　(BNH005)　(08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	MACH = .600
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC			
SCALE = .0125				

RUN NO. 51/ 0　RN/L = 3.36　　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
130.569	-5.190	.13526	-.73389	-.01669	-.01828	.11684
130.436	-3.773	.32773	-.52945	-.02098	-.01514	.11182
130.276	-2.866	.56256	-.39776	-.02009	-.01423	.10628
130.158	-1.854	1.32626	-.28072	-.03586	-.00182	.12511
130.031	-.858	5.98906	-.25456	-.02021	-.01462	.10545
129.869	.149	-3.42985	-.26678	-.03388	-.00253	.12173
129.728	1.216	-1.51201	-.24606	-.01391	-.00808	.11018
129.596	2.190	-1.02481	-.21503	-.01337	-.00648	.11439
129.434	3.207	.81091	-.19323	-.01530	-.00388	.11188
129.329	4.111	-.68437	-.18580	-.01786	-.00668	.11863
129.085	5.180	-.58288	-.17325	-.00181	.01245	.12437
128.927	6.172	-.51082	-.15242	-.00444	.01036	.12713
128.889	7.226	-.44495	-.12511	-.00330	.01267	.10878
128.737	8.205	-.38511	-.08664	-.00770	.01525	.11412
GRADIENT		-.34381	.03538	.00030	.00103	.00045

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　(BNH008)　(08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 81/ 0　RN/L = 3.35　　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
4.365	.192	-1.99713	-.27822	-.03588	-.04936	.08524
2.954	2.364	3.45133	-.24733	-.03274	-.03998	.08761
3.443	4.308	.73920	-.19305	-.02390	-.03379	.08521
GRADIENT		.70049	-.02056	.00288	.00379	.00001

RUN NO. 82/ 0　RN/L = 3.35　　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
5.994	-.126	-1.73392	-.29174	-.02428	-.03768	.09844
7.541	2.378	2.27330	-.17758	-.03058	-.03836	.08398
7.335	4.361	.59772	-.14266	-.02042	-.02494	.09409
GRADIENT		.56606	.03375	.00072	.00270	-.00118

ARC 14-120(CA23B)   747/1 AT1 O2S1   (CARRIER DATA)   (BNH008)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.751	-.141	-1.77398	-.29851	-.03479	-.04507	.08269
9.637	2.414	1.82848	-.18214	-.02201	-.03185	.09043
9.522	4.401	.53863	-.13505	-.02724	-.02563	.09053
GRADIENT		.55126	.03644	.00182	.00432	.00179

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.752	-.014	-1.93432	-.29271	-.02151	-.01592	.09867
15.063	2.461	1.33466	-.16558	-.02312	-.00367	.10052
15.188	4.492	.41399	-.14098	-.02148	-.01320	.09446
GRADIENT		.54990	.03431	-.00002	.00076	-.00087

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.536	-.028	-2.03844	-.32426	-.01895	-.02365	.09741
29.860	2.464	.88985	-.18362	-.02555	-.02368	.09307
29.902	4.306	.30993	-.15538	-.01776	-.01217	.09652
GRADIENT		.57791	.03996	.00008	.00250	-.00029

RUN NO. 86/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.873	-.065	-1.97441	-.30838	-.03907	-.03487	.08358
44.666	2.496	.69134	-.17669	-.01881	-.01775	.09517
45.029	4.342	.24050	-.15162	-.02049	-.01437	.09433
GRADIENT		.53617	.03656	.00445	.00478	.00257

RUN NO. 87/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.039	-.106	-2.27263	-.30290	-.02771	-.02928	.08998
50.412	2.490	.69563	-.18225	-.02134	-.02001	.10023
50.166	4.334	.22023	-.15036	-.02937	-.02568	.08084
GRADIENT		.59955	.03515	-.00019	.00099	-.00166

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (BNH009)   (08 OCT 75)

REFERENCE DATA

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

```
                              BETA   =    .000     STAB   =  -1.000
                              RUDDER =    .000     ELEVON =   5.000
                              IORB   =  8.000      DX     =    .030
                              DY     =    .000     MACH   =    .600
```

RUN NO. 91/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

```
DZ      ALPHAC    XZCP       XYCP      CPCC      CPSB1     CPSB2
8.075     .274   -2.14495   -.30703   -.03239   -.03344   .08585
7.276    2.380    4.86789   -.21619   -.03387   -.03334   .08029
7.800    4.334     .97526   -.16127   -.02261   -.01913   .09256
GRADIENT          .80175     .03500    .00237    .00348   .00160
```

RUN NO. 92/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

```
DZ      ALPHAC    XZCP       XYCP      CPCC      CPSB1     CPSB2
9.930    -.015   -1.83377   -.37537   -.02838   -.03339   .08788
10.158   2.498    3.48849   -.22391   -.02302   -.02488   .09456
9.843    4.339     .86073   -.16163   -.01970   -.02077   .08784
GRADIENT          .70700    -.04975    .00200    .00293   .00015
```

RUN NO. 93/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

```
DZ      ALPHAC    XZCP       XYCP      CPCC      CPSB1     CPSB2
14.862   -.101   -1.77825   -.38069   -.01836   -.02049   .10032
14.490   2.534    2.34671   -.21978   -.02456   -.02376   .09358
15.108   4.322     .69382   -.15664   -.01516   -.01277   .09423
GRADIENT          .63447     .05143    .00049    .00152  -.00147
```

RUN NO. 94/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

```
DZ      ALPHAC    XZCP       XYCP      CPCC      CPSB1     CPSB2
29.926   -.027   -2.13156   -.32952   -.03467   -.03362   .08435
29.957   2.539    1.23148   -.20988   -.02544   -.02092   .09638
29.720   4.365     .41937   -.16592   -.01927   -.01419   .09390
GRADIENT          .62834     .03786    .00351    .00446   .00234
```

RUN NO. 95/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

```
DZ      ALPHAC    XZCP       XYCP      CPCC      CPSB1     CPSB2
44.465   -.192   -1.80863   -.35302   -.03025   -.02998   .08796
44.798   2.406    1.05177   -.19860   -.03450   -.03213   .08653
44.826   4.485     .28910   -.15570   -.0.892   -.01200   .09827
GRADIENT          .47527     .04290    .00226    .00365   .00209
```

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA) (BNH009) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 96/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.555	-.078	-2.20041	-.29261	-.03413	-.03097	.08209
50.407	2.550	.79682	-.18452	-.02271	-.01659	.09574
50.452	4.393	.27351	-.15773	-.01395	-.00864	.09807
	GRADIENT	.59322	.03091	.00450	.00503	.00368

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA) (BNH010) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 101/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
6.742	.132	1.14846	-.29482	.06228	.04405	.19015
7.349	2.303	-.71427	-.22808	.01503	.00540	.13437
7.463	4.270	-.44501	-.17954	.01041	.00101	.13099
	GRADIENT	-.39322	.02791	-.01269	-.01053	-.01449

RUN NO. 102/ 0 RN/L = 3.38 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.009	-.206	.78970	-.28557	.00114	-.00979	.12879
10.088	2.335	-.76588	-.20748	.00466	-.00698	.12422
10.447	4.346	-.48769	-.15890	.00678	-.00325	1.08143
	GRADIENT	-.29492	.02795	.00125	.00142	.20015

RUN NO. 103/ 0 RN/L = 3.37 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.028	-.178	1.85197	-.27493	-.00885	-.01907	.11246
14.812	2.367	-.85413	-.21615	.00438	-.00756	.12005
15.043	4.381	-.54768	-.16188	.00329	-.00147	.12224
	GRADIENT	-.54938	.02472	.00277	.00389	.00218

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (BNH010) (08 OCT 75)

REFERENCE DATA

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

		STAB	=	.000	5.000
BETA	=	.000	ELEVON =	.000	5.000
RUDDER	=		DX	= 8.000	.000
IORB	=		MACH	=	.600
DY	=				

RUN NO. 104/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.734	-.108	23.92230	-.27220	.00685	-.00083	.12387
30.254	2.360	-.95131	-.23043	.00404	-.00153	.12317
29.860	4.407	-.62146	-.19607	.00729	.00384	.12658
GRADIENT		-5.59431	.01687	.00006	.00099	.00057

RUN NO. 105/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.868	-.111	-9.92696	-.28951	-.00905	-.01560	.11276
45.183	2.422	-.94784	-.22429	.00915	.00490	.13221
45.129	4.429	-.63474	-.18652	.00678	.00066	.12428
GRADIENT		2.11090	.02282	.00365	.00378	.00276

RUN NO. 106/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.418	-.076	-8.51375	-.29068	-.01210	-.01711	.10782
50.480	2.472	-.94165	-.23280	.00917	.00385	.12849
50.477	4.415	-.63497	-.19101	.00569	.00409	.12372
GRADIENT		1.81580	.02222	.00418	.00490	.00377

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (BNH011) (08 OCT 75)

REFERENCE DATA

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

		STAB	=	.000	-1.000
BETA	=	.000	ELEVON =	.000	5.000
RUDDER	=		DX	= 4.000	.000
IORB	=		MACH	=	.600
DY	=				

RUN NO. 111/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.151	.047	-2.04310	-.23420	-.01019	-.02531	.11837
3.118	2.270	1.42806	-.15318	-.03813	-.04870	.08733
3.529	4.264	.39107	-.11360	-.02662	-.03599	.09383
GRADIENT		.59592	.02875	-.00406	-.00268	-.00597

ARC 14-120(CA23B)   747/1 ATI 0251 (CARRIER DATA)   (BNH011)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = -1.000
LREF =	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF =	2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 4.000	DX = .000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO. 112/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.547	-.170	-1.95675	-.24365	-.02580	-.02926	.11209
7.199	2.385	1.03632	-.15072	-.02744	-.03413	.09675
7.175	4.257	.33629	-.12202	-.02656	-.03084	.09746
	GRADIENT	.55652	.02800	-.00020	-.00045	-.00346

RUN NO. 113/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.751	-.120	-2.19015	-.23829	-.03218	-.04117	.09891
9.781	2.353	1.00476	-.16284	-.02432	-.03075	.09885
9.491	4.419	.29553	-.12562	-.02498	-.02632	.09666
	GRADIENT	.57180	.02501	.00164	.00330	-.00048

RUN NO. 114/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.874	-.041	-2.32167	-.25371	-.02620	-.03314	.10061
14.967	2.414	.86275	-.16462	-.02768	-.03141	.09520
14.923	4.392	.26633	-.13040	-.03169	-.03038	.08747
	GRADIENT	.61202	.02815	-.00121	.00062	-.00293

RUN NO. 115/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.907	-.177	-2.35984	-.27423	-.02513	-.02142	.10838
29.803	2.432	.63031	-.15731	-.02272	-.01900	.10192
29.693	4.435	.18441	-.13475	-.02395	-.01703	.09506
	GRADIENT	.58096	.03096	.00029	.00095	-.00287

RUN NO. 116/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.786	-.134	-3.18191	-.26560	-.01910	-.01697	.10062
45.057	2.347	.54219	-.15687	-.01702	-.02021	.09936
44.452	4.450	.15130	-.13512	-.02062	-.01394	.09970
	GRADIENT	.75002	.02892	-.00030	-.00060	-.00021

ARC 14-120(CA23B)　747/1 AT1 O2S1 (CARRIER DATA)　　　(BNH012)　(08 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	-1.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN. ZC	IORB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RUN NO.　121/ 0　RN/L =　3.35　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.209	.038	-2.04595	-.25195	-.02539	-.02751	.10808
3.176	2.411	2.41587	-.18771	-.03168	-.03560	.08812
3.398	4.319	.71203	-.14874	-.02154	-.02074	.09674
	GRADIENT	.69351	.02422	.00076	.00138	-.00288

RUN NO.　122/ 0　RN/L =　3.34　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.586	-.026	-2.23629	-.27652	-.03645	-.04117	.09088
7.752	2.399	1.85761	-.19307	-.01860	-.02233	.09803
7.261	4.448	.55857	-.14172	-.02267	-.02080	.09319
	GRADIENT	.65693	.03026	.00321	.00465	.00059

RUN NO.　123/ 0　RN/L =　3.34　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.180	-.156	-1.98039	-.31724	-.01981	-.02674	.10498
9.988	2.439	1.57283	-.18664	-.02211	-.02530	.09840
10.110	4.458	.48588	-.13552	-.01512	-.01699	.09544
	GRADIENT	.57332	.03989	.00093	.00204	-.00209

ARC 14-120(CA23B)　747/1 AT1 O2S1 (CARRIER DATA)　　　(BNH013)　(08 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	5.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	2348.0400 IN.	ZMRP	=	190.7500 IN. ZC	IORB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RUN NO.　131/ 0　RN/L =　3.34　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.093	.127	2.53679	-.09399	-.00015	-.01746	.12234
3.006	2.255	-.95078	-.09033	-.00761	-.02145	.11135
3.460	4.338	-.54726	-.05917	-.00433	-.01928	.09898
	GRADIENT	-.73568	.00825	-.00100	-.00044	-.00555

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 132/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.217	-.139	2.21846	-.11608	-.01656	-.02835	.10594
7.234	2.360	-.97219	-.07588	-.00215	-.01379	.11776
7.234	4.367	-.58027	-.05220	-.00160	-.01460	.10886
7.262	GRADIENT	.64746	.01425	.00342	.00316	.00081

RUN NO. 133/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.116	-.237	2.29280	-.14767	-.01184	-.02228	.10866
9.960	2.407	-.95664	-.08322	.00105	-.01386	.11485
9.890	4.371	-.59834	-.06337	.00533	-.00395	.11751
	GRADIENT	-.66109	.01864	.00399	.00393	.00194

RUN NO. 134/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.175	-.191	4.55151	-.15620	-.00860	-.02172	.10953
14.756	2.411	-1.00949	-.10235	-.00246	-.01494	.11419
15.038	4.441	-.61710	-.07660	.00556	-.00584	.11554
	GRADIENT	-1.16282	.01735	.00303	.00339	.00132

RUN NO. 135/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
30.192	-.063	-12.08780	-.22282	-.00084	-.00382	.12270
29.830	2.435	-1.00218	-.17646	.00099	-.00934	.11788
29.948	4.393	-.66050	-.15307	-.00307	-.01193	.10621
	GRADIENT	2.64919	.01579	-.00045	-.00184	-.00362

RUN NO. 136/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.708	-.049	-6.51391	-.25732	.00356	-.00486	.11923
44.452	2.450	-.97243	-.18922	.00211	-.00576	.11819
44.667	4.474	-.65251	-.16514	.00643	.00129	.12050
	GRADIENT	1.33168	.02065	.00059	.00129	.00026

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (BNH013)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 137/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.164	-.057	-6.77468	-.25222	.00043	-.00744	.11979
50.275	2.433	-.97888	-.19360	.01011	-.00315	.11946
50.038	4.464	-.64985	-.16352	.00594	-.00463	.11679
	GRADIENT	1.39079	.01976	.00132	.00066	-.00065

ARC 14-120(CA23B)   747/1 ATI O2S1 (CARRIER DATA)   (BNH014)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 141/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.324	2.292	-.87316	.01211	-.01522	-.01522	.01387
3.528	4.239	-.51937	.01242	-.01821	-.01332	.01516
	GRADIENT	.18178	.00016	-.00154	.00097	.00067

RUN NO. 142/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.340	1.933	-1.03089	-.00588	-.02696	-.02963	.00723
7.097	4.300	-.55926	.01666	-.00475	-.00209	.03271
	GRADIENT	.19920	.00952	.00938	.01340	.01076

RUN NO. 143/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.137	1.946	-1.06536	.02818	-.03092	-.02851	.00712
9.825	4.403	-.57681	.01674	-.01136	-.00593	.02610
	GRADIENT	.19883	-.00456	.00796	.00919	.00773

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (BNH014)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO. 144/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.968	-1.11585	-.04841	-.01770	-.01716	.02502
4.376	-.61099	-.03870	-.01166	-.00921	.02801
GRADIENT	.20969	.00404	.00251	.00330	.00124

DZ 14.831 14.775

RUN NO. 145/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.997	-1.10304	-.17800	-.01142	-.01142	.03076
4.392	-.64240	-.13780	-.00787	-.00706	.03068
GRADIENT	.19233	.01679	.00148	.00182	-.00003

DZ 30.007 29.873

RUN NO. 146/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.998	-1.11751	-.21692	-.01826	-.01639	.02486
4.430	-.64242	-.15564	-.00386	-.00224	.03899
GRADIENT	.19533	.02520	.00592	.00582	.00581

DZ 44.854 44.891

RUN NO. 147/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.049	-1.06248	-.19865	-.02245	-.02406	.01771
4.431	-.64469	-.15595	-.00919	-.00649	.02997
GRADIENT	.17539	.01793	.00557	.00738	.00515

DZ 50.387 50.182

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (BNH015)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO. 151/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.261	2.410	-.59750	-.03198	-.00794	-.00984	.02509
7.540	4.362	-.38290	-.05011	-.00855	-.00312	.03375
	GRADIENT	.10996	-.00929	-.00031	.00344	.00444

RUN NO. 152/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.896	2.043	-.73653	-.05109	-.00477	-.00233	.02998
10.215	4.469	-.42530	-.05444	-.00698	-.00644	.03318
	GRADIENT	.12833	-.00138	-.00091	-.00170	.00132

RUN NO. 153/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.806	2.079	-.84287	-.08147	-.02230	-.02123	.03037
14.750	4.497	-.48869	-.06213	-.00555	-.00338	.05245
	GRADIENT	.14651	-.00800	-.00693	.00738	.00913

RUN NO. 154/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
30.131	2.049	-.99197	-.20731	-.02001	-.02216	.03496
30.087	4.493	-.58576	-.16204	-.00559	-.00089	.05382
	GRADIENT	.16618	-.01852	-.00590	.00943	.00772

RUN NO. 155/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.833	2.044	-1.02843	-.22047	-.00915	-.00400	.04747
45.102	4.460	-.61912	-.17140	-.00131	-.00086	.05698
	GRADIENT	.16944	-.02032	.00324	.00201	.00394

RUN NO. 156/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.292	2.016	-1.04921	-.23542	-.02298	-.01735	.03849
50.425	4.375	-.62540	-.17724	-.01558	-.01237	.03879
	GRADIENT	.17963	-.02466	.00314	.00211	.00013

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (BNH016) (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF	=	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF	=	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF	=	2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 6.000	DX = 20.000
SCALE	=	.0125		DY = .000	MACH = .600

RUN NO. 161/ 0 RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.997	2.461	-.71073	.00238	-.01885	-.00152	.03045
3.241	4.340	-.46504	-.02723	-.01516	.00001	.03386
	GRADIENT	.13081	-.01576	.00197	.00081	.00182

RUN NO. 162/ 0 RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.114	2.024	-.89037	-.05094	-.03042	-.01513	.01919
7.110	4.482	-.51140	-.03987	-.01344	.00310	.03972
	GRADIENT	.15415	.00450	.00690	.00742	.00835

RUN NO. 163/ 0 RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.110	1.989	-.97179	-.05213	-.01821	.00019	.03890
9.502	4.485	-.53515	-.04348	-.01421	.00370	.04279
	GRADIENT	.17494	.00347	.00160	.00141	.00156

RUN NO. 164/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.885	2.147	-.94564	-.09765	-.02711	-.01318	.02270
14.669	4.296	-.58585	-.07905	-.01380	-.00269	.04477
	GRADIENT	.16746	.00866	.00619	.00489	.01027

RUN NO. 165/ 0 RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.970	2.006	-1.06458	-.20607	-.02184	-.01167	.04000
29.738	4.442	-.62109	-.16292	-.00550	.00398	.05894
	GRADIENT	.18205	.01771	.00671	.00642	.00777

RUN NO. 166/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.740	2.001	-1.05872	-.22344	-.02060	-.00320	.03429
44.620	4.440	-.62653	-.17061	-.00553	.00936	.05080
	GRADIENT	.17721	.02166	.00618	.00515	.00677

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (BNH016) (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF =	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF =	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = 20.000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO. 167/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.218	1.383	-1.09003	-.22816	-.01322	-.00046	.04000
50.509	4.478	-.62335	-.17023	-.00348	.01526	.04540
	GRADIENT	.18701	.02321	.00390	.00630	.00216

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (BNH017) (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF =	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF =	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = 20.000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO. 171/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.409	2.320	-.58230	-.10898	-.01577	-.01116	.08509
7.682	4.409	-.34657	-.09025	-.01124	-.00852	.08658
	GRADIENT	.11288	.00897	.00217	.00126	.00071

RUN NO. 172/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.200	1.989	-.68963	-.12983	-.02208	-.02074	.07747
9.876	4.367	-.40271	-.09796	-.00890	-.00268	.09450
	GRADIENT	.12066	.01341	.00554	.00760	.00716

RUN NO. 173/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.980	2.042	-.82644	-.14750	-.02605	-.02258	.08008
14.840	4.390	-.47262	-.10990	-.01551	-.01151	.08437
	GRADIENT	.15071	.01601	.00449	.00471	.00183

RUN NO. 174/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
30.168	1.994	-1.00745	-.23644	-.02132	-.01891	.08785
29.810	4.397	-.57336	-.18003	-.00434	-.00867	.09877
	GRADIENT	.18067	.02348	.00707	.00426	.00454

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (BNH017)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	-5.00/ 5.00	STAB = .000 5.000
RUDDER =		ELEVON = .000 5.000
IORB =		DX = 8.000 20.000
DY =		MACH = .000 .600

RUN NO. 175/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.109	-.99533	-.22912	-.01048	-.00994	.09738
4.417	-.60444	-.18141	-.00897	-.00572	.09861
GRADIENT	.16938	.02067	.00065	.00183	.00053

DZ		
44.854		
45.244		

RUN NO. 176/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.118	-1.02516	-.24060	-.01703	-.01054	.09855
4.352	-.62271	-.18506	-.00713	-.00172	.10212
GRADIENT	.18016	.02486	.00443	.00395	.00160

DZ		
50.344		
50.595		

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (BNH018)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA =	-5.00/ 5.00	STAB = .000 5.000
RUDDER =		ELEVON = .000 5.000
IORB =		DX = 6.000 .000
DY =		MACH = 10.000 .600

RUN NO. 181/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.472	-.91683	-1.07678	-.00319	-.01158	.09318
4.405	-.57410	-1.37601	-.00519	-.00734	.08657
GRADIENT	.17722	-.15473	-.00103	.00219	-.00342

DZ		
3.378		
3.590		

RUN NO. 182/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.009	-1.07566	-.84023	-.02383	-.02330	.08017
4.378	-.59244	-.92407	-.00976	-.00786	.08802
GRADIENT	.20395	-.03539	.00594	.00652	.00331

DZ		
7.711		
7.202		

RUN NO. 183/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.005	-1.08423	-.73073	-.02371	-.01838	.08223
4.475	-.59844	-.80676	-.00806	-.00833	.08902
GRADIENT	.19668	-.03078	.00634	.00407	.00275

DZ		
9.911		
10.102		

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　(BNH018)　(08 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

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

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	10.000	MACH =	.600

RUN NO. 184/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.973	2.102	-1.05427	-.69112	-.02530	-.02503	.08165
14.736	4.362	-.62419	-.55952	-.00724	-.00481	.09257
	GRADIENT	.19023	.05821	.00799	.00894	.00483

RUN NO. 185/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.716	2.100	-1.09690	.10844	-.02053	-.01893	.08692
29.761	4.335	-.65690	2.68843	-.00266	.00031	.09993
	GRADIENT	.19689	1.15448	.00800	.00861	.00582

RUN NO. 186/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.733	1.972	-1.11721	.06150	-.01375	-.00996	.09235
44.856	4.308	-.65689	.23533	-.00314	.00172	.10189
	GRADIENT	.19705	.07441	.00454	.00500	.00408

RUN NO. 187/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.952	2.021	-1.08815	-.04628	-.00146	.00369	.10001
50.410	4.396	-.64227	.06918	-.00712	-.00062	.09625
	GRADIENT	.18775	.04862	.00238	-.00182	-.00158

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (BNH019) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
1ORB = 8.000	DX = .000
DY = 10.000	MACH = .600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.491	2.105	-.83511	-1.25239	-.00855	-.0774	.09425
7.844	4.380	-.50856	-2.70113	-.00541	-.00135	.08817
	GRADIENT	.16533	-.73350	.00159	.00324	-.00308

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.818	2.116	-.88973	-1.12523	-.02108	-.01814	.07901
9.759	4.310	-.52565	-2.84687	-.00556	-.00286	.08953
	GRADIENT	.16597	-.78482	.00707	.00696	.00479

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.864	1.964	-1.04783	-.95070	-.01471	-.00271	.08357
15.018	4.414	-.56545	.60897	-.00723	.00439	.09136
	GRADIENT	.19689	.63661	.00305	.00290	.00314

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
30.225	2.014	-1.07022	-1.85045	-.01578	-.01712	.08338
30.105	4.404	-.61789	-1.07730	.00034	-.00209	.09349
	GRADIENT	.18928	.32352	.00675	.00629	.00423

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.421	2.014	-1.05983	.44552	-.01453	-.01267	.08635
45.079	4.380	-.64145	.48005	-.00825	-.00585	.09034
	GRADIENT	.17681	.01459	.00265	.00288	.00168

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.290	2.002	-1.05597	.16031	-.00264	-.00345	.09681
50.279	4.323	-.64695	.20398	-.00184	.00302	.09797
	GRADIENT	.17617	.01881	.00035	.00279	.00050

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (BNH020)   (21 OCT 75)

REFERENCE DATA

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

BETA =	.000 STAB = 5.000
RUDDER =	.000 ELEVON = .000
1ORB =	4.000 DX = .000
DY =	.000 MACH = .600

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.999	.056	-19.53650	-.18658	-.01469	-.01766	.09625
2.972	2.231	-1.27100	-.15924	-.03064	-.03038	.06764
3.376	4.258	-.76012	-.11799	-.00844	-.01978	.07771
	GRADIENT	4.51668	.01628	.00138	-.00057	-.00452

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.356	-.232	29.51460	-.20024	-.02115	-.01845	.09708
7.305	2.422	-1.19287	-.15367	-.01375	-.01186	.08537
7.176	4.286	-.74633	-.12345	-.01226	-.01659	.07668
	GRADIENT	-7.02760	.01703	.00202	.00055	-.00451

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.998	-.190	424.47900	-.19768	-.03292	-.03398	.07857
9.822	2.393	-1.16102	-.15013	-.01387	-.01709	.08753
9.715	4.416	-.73602	-.12012	-.01398	-.01023	.08176
	GRADIENT	-95.60566	.01691	.00426	.00522	.00082

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL =   -5.00/   5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.608	-.076	-8.55418	-.19928	-.01558	-.01100	.09652
14.941	2.433	-1.11882	-.15441	-.01651	-.01327	.09307
14.567	4.425	-.72178	-.11973	-.00343	-.00370	-.08947
	GRADIENT	1.79206	.01768	.00257	.00151	-.00156

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/   5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.742	-.160	-7.33200	-.23432	-.02978	-.02366	.08292
29.812	2.421	-1.05010	-.18907	-.01565	-.00757	.09597
29.770	4.475	-.69194	-.15206	-.01159	-.01051	.08779
	GRADIENT	1.47485	.01774	.00399	.00298	.00122

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH020)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = .000
IORB   = 4.000   DX   = .000
DY   = .000   MACH   = .600

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.518	-.106	-5.04471	-.25422	-.03040	-.02020	.08019
44.662	2.474	-.99836	-.19360	-.00771	-.00092	.09697
44.473	4.486	-.66643	-.16197	-.00559	-.00018	.09771
GRADIENT		.98177	.02025	.00556	.00454	.00394

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH021)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   = .000   STAB   = -1.000
RUDDER = .000   ELEVON = .000
IORB   = 4.000   DX   = .000
DY   = .000   MACH   = .600

RUN NO. 211/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.110	.173	-1.87063	-.15904	-.02533	-.02347	.08738
3.078	2.255	.75764	-.11077	-.02997	-.02997	.07465
3.099	4.353	.16061	-.09026	-.04100	-.03808	.05235
GRADIENT		.48493	.01645	-.00375	-.00350	-.00838

RUN NO. 212/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.673	-.126	-1.53443	-.17240	-.03216	-.02465	.08256
7.105	2.399	.54906	-.10796	-.02652	-.02759	.07643
7.181	4.355	.13664	-.09103	-.02837	-.02543	.06975
GRADIENT		.39433	.01851	.00091	-.00022	-.00284

RUN NO. 213/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.888	-.253	-1.44412	-.17348	-.04185	-.03310	.07051
10.133	2.398	.53437	-.10304	-.03890	-.03864	.06113
9.989	4.413	.12464	-.08345	-.03730	-.03016	.05626
GRADIENT		.35721	.01967	.00098	.00049	-.00308

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH021)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   =   .000   STAB   = -1.000
RUDDER =   .000   ELEVON =   .000
IORB   =   4.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 214/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.808	-.052	-2.23886	-.16265	-.03690	-.02473	.07239
14.795	2.452	.48330	-.09790	-.02962	-.01439	.08285
14.946	4.403	.11845	-.07820	-.02192	-.01471	.07530
	GRADIENT	.55492	.01928	.00334	.00233	.00082

RUN NO. 215/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.743	-.137	-2.32324	-.19136	-.03722	-.02184	.06935
29.755	2.487	.40010	-.11689	-.02828	-.01438	.07735
29.747	4.402	.10068	-.09604	-.02538	-.00901	.07254
	GRADIENT	.56409	.02144	.00266	.00283	.00084

RUN NO. 216/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.609	-.114	-3.17111	-.18086	-.03496	-.01799	.06584
44.499	2.547	.35489	-.11347	-.02368	-.00839	.07552
44.744	4.315	.10226	-.09823	-.02237	-.00174	.07569
	GRADIENT	.78578	.01919	.00296	.00366	.00234

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH022)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA   =   .000   STAB   = 5.000
RUDDER =   .000   ELEVON =   .000
IORB   =   8.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 221/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.175	.180	3.93532	-.10786	-.01035	-.00414	.09710
7.048	2.374	-1.01301	-.07809	-.01230	-.00770	.08911
7.827	4.374	-.58146	-.06478	-.00678	-.00407	.08877
	GRADIENT	-1.09602	.01033	.00082	-.00001	-.00202

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH022)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 222/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.008	-.095	3.21821	-.15102	-.00950	.00050	.09343
9.794	2.462	-1.01232	-.11077	-.00734	.00372	.09225
10.168	4.329	-.61690	-.06919	-.00700	.00487	.08825
GRADIENT		-.91371	.01833	.00058	.00100	-.00113

RUN NO. 223/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.875	-.131	5.00195	-.11280	-.02103	-.01515	.07445
15.107	2.479	-1.02708	-.08417	-.02550	-.01720	.06640
14.650	4.467	-.64495	-.06799	-.00624	-.00516	.09288
GRADIENT		-1.28309	.00981	-.00296	.00202	.00365

RUN NO. 224/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.663	-.130	-62.50340	-.17571	-.02369	-.01227	.07804
30.014	2.540	-1.01105	-.14065	-.01043	-.01016	.08669
30.212	4.360	-.68118	-.11961	-.00882	-.00048	.08909
GRADIENT		14.45494	.01254	.00343	.00249	.00252

RUN NO. 225/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.608	-.097	-8.17365	-.22545	-.01080	-.01215	.09184
44.758	2.520	-.98567	-.18461	-.00996	-.00700	.09602
44.921	4.300	-.67928	-.15080	-.00001	-.00026	.10687
GRADIENT		1.78201	.01687	.00230	.00276	.00328

RUN NO. 226/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.329	-.122	-7.97086	-.23660	-.00933	-.01068	.09458
50.199	2.456	-1.02047	-.18702	-.01587	-.01322	.08625
50.308	4.443	-.66630	-.14936	-.00381	-.00381	.09752
GRADIENT		1.65324	.01912	.00103	.00138	.00046

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA) (BNH023) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 231/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.160	.028	5.50461	-.08901	-.01945	-.01702	.09443
3.398	2.478	-1.09957	-.07922	-.01633	-.01120	.08360
3.235	4.342	-.67214	-.07230	-.01476	-.01179	.07872
	GRADIENT	-1.49628	.00388	.00110	.00127	-.00368

RUN NO. 232/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.044	-.157	4.90354	-.11877	-.02953	-.02712	.07923
7.210	2.438	-1.13960	-.08470	-.02281	-.02148	.07248
7.208	4.444	-.69168	-.06153	-.01648	-.01243	.08576
	GRADIENT	-1.26930	.01247	.00282	.00314	.00123

RUN NO. 233/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.588	-.079	10.92820	-.12775	-.01959	-.01455	.09205
9.981	2.449	-1.12885	-.08455	-.02179	-.02019	.07897
9.714	4.418	-.68891	-.05790	-.00986	-.00959	.08532
	GRADIENT	-2.68460	.01561	.00205	.00095	-.00167

RUN NO. 234/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.480	-.060	756.97800	-.13452	-.02243	-.02163	.08628
14.703	2.510	-1.06852	-.07906	-.01807	-.01105	.09291
14.839	4.425	-.70219	-.06118	-.01242	-.01000	.08660
	GRADIENT	-175.92086	.01664	.00220	.00268	.00021

RUN NO. 235/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.767	-.083	-9.32822	-.21972	-.01074	-.01290	.09535
29.743	2.454	-1.08270	-.15928	-.01825	-.01905	.08333
29.929	4.441	-.69123	-.12691	-.01043	-.00234	.09417
	GRADIENT	1.96970	.02066	-.00007	.00212	-.00046

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REFERENCE DATA　　　ARC 14-120(CA23B)　747/1 ATI 02S1 (CARRIER DATA)　　(BNH023)　(08 OCT 75)

PARAMETRIC DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 236/ 0　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.538	-.030	-5.47442	-.22124	-.01462	-.01165	.09273
44.541	2.408	-1.03454	-.19355	-.00822	-.00472	.10132
44.965	4.398	-.68017	-.15102	-.00589	-.00058	.10096
	GRADIENT	1.11030	.01570	.00200	.00277	.00192

RUN NO. 237/ 0　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.951	-.140	-7.44901	-.23807	-.02499	-.02472	.08227
49.970	2.539	-1.00752	-.18973	-.00796	.00551	.09549
50.050	4.426	-.68152	-.14695	-.01690	-.00173	.07836
	GRADIENT	1.54403	.01982	.00208	.00546	-.00047

REFERENCE DATA　　　ARC 14-120(CA23B)　747/1 ATI 02S1 (CARRIER DATA)　　(BNH024)　(21 OCT 75)

PARAMETRIC DATA

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

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 241/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.790	.104	-1.78359	-.15532	-.03304	-.02520	.07880
3.147	2.378	1.45082	-.11700	-.02431	-.01487	.07709
3.235	4.382	.39573	-.08353	-.02060	-.01225	.07176
	GRADIENT	.52970	.01678	.00293	.00306	-.00163

RUN NO. 242/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.214	-.107	-1.76884	-.17317	-.02419	-.02069	.08474
7.169	2.445	1.10658	-.11292	-.02199	-.01444	.07915
7.223	4.433	.31729	-.08027	-.02412	-.01603	.07398
	GRADIENT	.49046	.02061	.00006	.00109	-.00236

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH024)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 243/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.900	-.036	-1.99741	-.15772	-.03522	-.03282	.07315
9.833	2.466	.94164	-.09887	-.02160	-.01809	.08048
9.797	4.354	.29796	-.07629	-.02169	-.01199	.08072
GRADIENT		.55726	.01881	.00321	.00481	.00179

RUN NO. 244/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.827	-.163	-1.81369	-.17957	-.02371	-.01751	.08815
14.725	2.499	.75956	-.08593	-.02295	1.08076	.08089
14.404	4.287	.25688	-.07395	-.02255	-.01771	.07738
GRADIENT		.50412	.02462	.00026	.03188	-.00244

RUN NO. 245/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.598	-.049	-2.63966	-.19255	-.03045	-.02459	.07439
29.897	2.432	.60676	-.11896	-.02158	-.01484	.08643
29.731	4.487	.16738	-.10638	-.01734	-.01222	.08342
GRADIENT		.64241	.01936	.00291	.00277	.00209

RUN NO. 246/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.528	-.131	-2.67912	-.20751	-.03385	-.02769	.06538
44.796	2.390	.51563	-.13211	-.03345	-.02382	.07277
44.981	4.445	.13994	-.11737	-.01759	-.00951	.08485
GRADIENT		.64035	.02008	.00343	.00388	.00421

RUN NO. 247/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.996	-.101	-3.01015	-.20432	-.02199	-.01550	.08465
50.084	2.534	.44612	-.13383	-.02088	-.01223	.08500
50.059	4.394	.13942	-.11363	-.01725	-.00621	.09135
GRADIENT		.74147	.02061	.00101	.00201	.00140

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   = -1.000
LREF =   327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON =   .000
BREF = 2348.0400 IN.   ZMRP =   190.7500 IN ZC   IORB   =   8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

     DZ   ALPHAC   XZCP   XYCP   CPCC   CPSB1   CPSB2
  7.209   .039   -1.78105   -.23600   -.03005   -.02819   .07595
  7.216   2.367   2.41183   -.13423   -.02821   -.02396   .07223
  7.326   4.353   .66042   -.11131   -.01379   -.01002   .08261
            GRADIENT   .60093   .02932   .00368   .00414   .00145

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

     DZ   ALPHAC   XZCP   XYCP   CPCC   CPSB1   CPSB2
  9.339   -.027   -1.88371   -.24066   -.02724   -.02591   .07939
 10.040   2.372   2.24724   -.13669   -.02486   -.02274   .07260
 10.061   4.478   .52776   -.10937   -.01280   -.00660   .08335
            GRADIENT   .56255   .02947   .00315   .00422   .00079

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

     DZ   ALPHAC   XZCP   XYCP   CPCC   CPSB1   CPSB2
 14.643   -.013   -1.95889   -.20999   -.02337   -.01474   .09074
 15.082   2.543   1.26649   -.12110   -.01317   -.00646   .09072
 14.801   4.374   .44678   -.07008   -.02446   -.01594   .07887
            GRADIENT   .59373   .03208   .00002   .00005   -.00253

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

     DZ   ALPHAC   XZCP   XYCP   CPCC   CPSB1   CPSB2
 29.827   -.162   -1.95231   -.20395   -.03064   -.02451   .07568
 30.228   2.450   .89424   -.12157   -.02501   -.01917   .07826
 30.232   4.437   .27080   -.09429   -.00867   -.00141   .09318
            GRADIENT   .51436   .02424   .00464   .00487   .00366

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

     DZ   ALPHAC   XZCP   XYCP   CPCC   CPSB1   CPSB2
 44.600   -.132   -2.24688   -.22274   -.02218   -.01554   .07997
 45.018   2.364   .68702   -.12446   -.01074   -.00617   .08639
 44.806   4.412   .20692   -.11712   -.01346   -.00082   .09249
            GRADIENT   .56279   .02356   .00201   .00326   .00275

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (BNH025)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000 STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000 ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.823	-.233	-2.10859	-.24351	-.03150	-.02564	.07466
50.763	2.449	.59874	-.13423	-.01778	-.00729	.09412
50.761	4.339	.19829	-.12098	-.01509	-.00269	.09115
	GRADIENT	.53840	.02773	.00369	.00514	.00385

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (BNH027)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000 STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000 ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 261/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.310	.046	2.81625	-.15101	.00550	-.00467	.12094
7.309	2.283	-.93545	-.10833	-.00233	-.00557	.10265
7.865	4.288	-.55880	-.07727	.01148	.00792	.11388
	GRADIENT	-.81250	.01741	.00131	.00290	-.00179

RUN NO. 262/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.835	-.171	2.36552	-.15464	.00031	-.00916	.11100
9.901	2.437	-.93834	-.10613	.00993	.01130	.11735
9.652	4.384	-.58432	-.07749	.01147	.01010	.11599
	GRADIENT	-.68173	.01703	.00252	.00443	.00117

RUN NO. 263/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.936	-.143	4.83274	-.17269	.00294	-.00762	.11475
14.990	2.462	-.97420	-.15223	.01366	.00929	.12011
15.447	4.479	-.61514	-.10669	.01589	.01342	.11491
	GRADIENT	-1.22854	.01397	.00286	.00464	.00013

ARC 14-120(CA23B)　747/1 AT1 03S1　(CARRIER DATA)　　　(BNH027)　(08 OCT 75　)

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.
LREF	=	327.7800	IN.
BREF	=	2348.0400	IN.
SCALE	=	.0125	

XMRP	=	1339.9000 IN. XC
YMRP	=	.0000 IN. YC
ZMRP	=	190.7500 IN ZC

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 264/ 0　RN/L = 3.27　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.711	-.161	-346.52800	-.21795	-.00255	-.00201	.11073
29.841	2.529	-.99826	-.17136	.00990	.01210	.11742
30.092	4.385	-.66176	-.12362	.01479	.01507	.11653
GRADIENT		79.83991	.02051	.00387	.00386	.00136

RUN NO. 265/ 0　RN/L = 3.27　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.673	-.113	-6.56277	-.24445	.00703	.01335	.11614
44.791	2.534	-.96538	-.20722	.01021	.01624	.12292
44.852	4.379	-.66088	-.15996	.01128	.01100	.11793
GRADIENT		1.36951	.01848	.00096	-.00041	.00055

RUN NO. 266/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.205	-.137	-14.25580	-.26803	-.00489	-.00544	.10803
50.115	2.437	-1.00704	-.20977	.00974	.01156	.12035
50.310	4.427	-.65110	-.16288	.01254	.02024	.11980
GRADIENT		3.08444	.02302	.00391	.00568	.00269

ARC 14-120(CA23B)　747/1 AT1 03S1　(CARRIER DATA)　　　(BNH028)　(08 OCT 75　)

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.
LREF	=	327.7800	IN.
BREF	=	2348.0400	IN.
SCALE	=	.0125	

XMRP	=	1339.9000 IN. XC
YMRP	=	.0000 IN. YC
ZMRP	=	190.7500 IN ZC

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 281/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.140	2.460	-.99617	-.14768	-.00121	-.00997	.10383
3.154	4.481	-.60471	-.11417	.00052	.00385	.09972
GRADIENT		.19365	.01658	.00086	.00302	-.00204

ARC 14-120(CA23B)　747/1 AT1 O3S1 (CARRIER DATA)　　　(BNH028)　(08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

```
BETA   =    .000    STAB   =   5.000
RUDDER =    .000    ELEVON =    .000
IORB   =   6.000    DX     =  10.000
DY     =    .000    MACH   =    .600
```

RUN NO. 282/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.424	2.022	-1.17575	-.13505	-.00866	-.01244	.09194
7.204	4.410	-.63895	-.09219	.00777	.00122	.10767
	GRADIENT	.22481	.01795	.00688	.00572	.00658

RUN NO. 283/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.851	2.068	-1.15202	-.11862	-.00910	-.01695	.09128
9.970	4.488	-.64484	-.07425	-.00016	-.00564	.10230
	GRADIENT	.20964	.01834	.00370	.00467	.00455

RUN NO. 284/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.671	2.026	-1.17026	-.09561	-.01184	-.01562	.09874
14.337	4.481	-.66051	-.05374	.00625	.00269	.10751
	GRADIENT	.20764	.01705	.00737	.00746	.00358

RUN NO. 285/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.878	2.180	-1.11512	-.18153	-.00712	-.00658	.10059
29.674	4.515	-.65562	-.13171	.01052	.01462	.11875
	GRADIENT	.19248	.02134	.00755	.00908	.00760

RUN NO. 286/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.780	2.093	-1.12746	-.21252	-.00726	.00140	.10340
45.100	4.521	-.66202	-.16250	.00603	.00987	.11074
	GRADIENT	.19168	.02060	.00547	.00349	.00302

RUN NO. 287/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.200	2.061	-1.11633	-.21048	-.00843	.00160	.10382
50.258	4.539	-.64534	-.15507	.01036	.01420	.11355
	GRADIENT	.19004	.02236	.00758	.00508	.00393

ARC 14-120(CA23B) 747/1 AT1 0351 (CARRIER DATA)

(BNH029)   (08 OCT 75)

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.
LREF	=	327.7800	IN.
BREF	=	2348.0400	IN.
SCALE	=	.0125	

XMRP	=	1339.9000	IN. XC
YMRP	=	.0000	IN. YC
ZMRP	=	190.7500	IN ZC

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	7.274	2.465	-.83163	-.13090	.00307	.11391	.00471
	7.616	4.442	-.50502	-.09961	.00502	.10945	.00666
GRADIENT			.16515	.01582	.00099	-.00226	.00099

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	10.037	2.057	-.99557	-.13625	-.00167	.10720	-.00106
	10.105	4.486	-.53530	-.08615	.01135	.11276	.01053
GRADIENT			.18945	.02062	.00536	.00229	.00390

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	15.073	2.020	-1.06976	-.10094	-.00670	.10437	-.00562
	14.864	4.412	-.58850	-.06392	.00955	.11265	.00900
GRADIENT			.20116	.01547	.00679	.00346	.00611

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	30.231	2.128	-1.07242	-.15430	.00168	.10526	-.00183
	29.953	4.510	-.63370	-.11757	.01572	.11908	.01000
GRADIENT			.18422	.01543	.00590	.00580	.00497

RUN NO. 295/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	44.559	2.087	-1.09723	-.20739	.00478	.10707	-.00088
	45.001	4.446	-.64516	-.16162	.01659	.12086	.01577
GRADIENT			.19162	.01940	.00501	.00584	.00706

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	XZCP	XYCP	CPSB1	CPSB2	CPCC
	50.108	2.027	-1.11875	-.21725	.00659	.10831	-.00261
	50.709	4.547	-.64030	-.15564	.01871	.12081	.01296
GRADIENT			.18986	.02445	.00481	.00496	.00618

ARC 14-120(CA23B)　747/1 AT1 03S1 (CARRIER DATA)　　　　　　　　(BNH030)　(08 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

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

BETA = .000　　STAB = 5.000
RUDDER = .000　ELEVON = .000
IORB = 8.000　　DX = 20.000
DY = .000　　　MACH = .600

RUN NO. 301/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	2.474	-.78822	-.14444	-.00773	-.00828	.09771
	4.355	-.48451	-.11168	-.00014	.00700	.10630
DZ	GRADIENT	.16155	.01743	.00404	.00813	.00457
7.146						
7.541						

RUN NO. 302/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	2.021	-.93859	-.13993	-.01060	-.00655	.09346
	4.495	-.51312	-.09978	.00269	.00790	.10735
DZ	GRADIENT	.17198	.01623	.00537	.00584	.00561
10.020						
10.077						

RUN NO. 303/ 0　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	2.172	-.97686	-.12097	-.01607	-.00605	.09578
	4.441	-.56737	-.08291	.00635	.01511	.11175
DZ	GRADIENT	.18052	.01678	.00989	.00933	.00704
14.887						
14.608						

RUN NO. 304/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	1.934	-1.14764	-.17881	-.00644	.00221	.10464
	4.549	-.61373	-.12295	.00438	.01455	.11080
DZ	GRADIENT	.20416	.02136	.00414	.00472	.00236
30.123						
29.781						

RUN NO. 305/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	2.080	-1.06362	-.21347	-.01036	-.00254	.10527
	4.413	-.65646	-.16513	-.00401	.00436	.10431
DZ	GRADIENT	.17454	.02072	.00272	.00296	-.00041
44.889						
44.724						

RUN NO. 306/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
	2.067	-1.10385	-.22676	-.00560	.00304	.10730
	4.416	-.64212	-.16605	.01181	.01809	.12507
DZ	GRADIENT	.19659	.02585	.00741	.00641	.00756
50.425						
50.408						

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (BNH031)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = 20.000
DY = .000	MACH = .600

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.139	2.440	-1.03707	-.14435	-.01910	-.02262	.08518
7.034	4.374	-.62873	-.09866	-.00444	-.00198	.09964
GRADIENT		.21109	.02362	.00758	.01067	.00747

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.707	1.989	-1.17571	-.14199	-.00350	-.00322	.10381
9.890	4.549	-.61824	-.08005	.00022	.00076	.10297
GRADIENT		.21773	.02419	.00145	.00156	-.00033

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.857	1.961	-1.22118	-.11827	-.01508	-.01373	.09113
14.654	4.524	-.63939	-.06896	.00146	.00584	.10324
GRADIENT		.22700	.01924	.00645	.00763	.00472

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.665	1.982	-1.19739	-.19239	-.00558	-.01105	.11423
29.802	4.262	-.69146	-.13820	-.00303	.01014	.11318
GRADIENT		.22189	.02376	-.00112	-.00040	-.00046

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.676	1.970	-1.15241	-.21325	-.00899	-.00116	.10041
44.732	4.370	-.67461	-.16413	.01297	.01680	.11883
GRADIENT		.19912	.02047	.00915	.00748	.00768

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.207	2.003	-1.15364	-.21083	.00181	.00646	.11778
50.098	4.371	-.67208	-.16084	.01105	.01734	.1168
GRADIENT		.20333	.02111	.00390	.00459	-.00041

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (BNH032) (08 OCT 75)

REFERENCE DATA

SREF	=	5500.0000 SQ.FT.
LREF	=	327.7800 IN.
BREF	=	2348.0400 IN.
SCALE	=	.0125

XMRP	=	1339.9000 IN. XC
YMRP	=	.0000 IN. YC
ZMRP	=	190.7500 IN. ZC

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 321/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.217	2.384	-1.14867	-1.23298	.00513	-.00145	.10601
3.310	4.324	-.68697	-1.69940	.01128	-.00046	1.38689
	GRADIENT	.23794	-.23779	.00317	.00051	.66010

RUN NO. 322/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.247	1.999	-1.26345	-.83811	.00915	.00013	.11220
7.563	4.379	-.68840	-1.04181	.00679	-.00333	.10255
	GRADIENT	.24154	-.08556	-.00099	-.00145	-.00405

RUN NO. 323/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.032	1.980	-1.29376	-.66350	.00523	-.00241	.11576
9.896	4.367	-.69781	-.82049	-.00167	-.00868	.09308
	GRADIENT	.24967	-.06577	-.00289	-.00263	-.00950

RUN NO. 324/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.217	2.049	-1.23106	-.43953	.00861	.00396	.11296
15.047	4.248	-.71261	.01407	.00978	.01087	.10964
	GRADIENT	.23568	.20621	.00053	.00314	-.00151

RUN NO. 325/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.998	1.976	-1.19367	-.00277	-.0707	-.00194	.10230
29.890	4.301	-.69939	.52606	.00697	.01025	.10990
	GRADIENT	.21255	.22741	.00604	.00524	.00327

RUN NO. 326/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.648	1.958	-1.16598	-.07546	.00476	.00722	.11426
44.989	4.325	-.68504	.04575	.00804	.00995	.11238
	GRADIENT	.20321	.05121	.00138	.00115	-.00079

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (BNH032) (08 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN.	XC			
LREF =	327.7800 IN.	YMRP =	.0000 IN.	YC	BETA =	.000	STAB = 5.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN.	ZC	RUDDER =	.000	ELEVON = .000
SCALE =	.0125				IORB =	6.000	DX = .000
					DY =	10.000	MACH = .600

RUN NO. 327/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
DZ					
49.978	1.369	-1.13946	-.10200	-.00772	-.00772	-.00072	.10182
50.163	4.264	-.69398	-.01323	.00024	.00320	.10423
	GRADIENT	.19411	.03868	.00347	.00171	.00105

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (BNH033) (08 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA	
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN.	XC			
LREF =	327.7800 IN.	YMRP =	.0000 IN.	YC	BETA =	.000	STAB = 5.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN.	ZC	RUDDER =	.000	ELEVON = .000
SCALE =	.0125				IORB =	8.000	DX = .000
					DY =	10.000	MACH = .600

RUN NO. 331/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
DZ					
7.500	2.446	-1.02465	-1.68195	.01224	.00762	.11092
7.613	4.292	-.63712	.77010	.01024	.01188	.10282
	GRADIENT	.21000	1.32878	-.00108	.00231	-.00439

RUN NO. 332/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
DZ					
10.263	1.907	-1.32293	-1.33179	.01014	.00960	.11619
9.859	4.322	-.63921	.03190	.00733	.00924	.10494
	GRADIENT	.28310	.56465	-.00116	-.00015	-.00466

RUN NO. 333/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
DZ					
15.012	1.933	-1.27251	-.83282	-.00531	-.00611	.10220
14.957	4.327	-.65605	-.52952	-.00501	-.00232	.09826
	GRADIENT	.25749	.12669	.00013	.00159	-.00165

RUN NO. 334/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
DZ					
29.834	1.958	-1.21535	1.50091	.00637	.01017	.11410
29.957	4.362	-.66902	-2.65233	.01197	.01686	.11389
	GRADIENT	.22723	-1.72740	.00233	.00278	-.00008

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (BNH033)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC	IORB =	8.000	DX =	.000
SCALE =	.0125			DY =	10.000	MACH =	.600

RUN NO. 335/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.819	1.871	-1.18809	.08823	-.00839	-.00190	.10303
45.000	4.278	-.68263	.23419	.01013	.01287	.11475
GRADIENT		.21005	.06066	.00769	.00614	.00487

RUN NO. 336/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.002	1.913	-1.18214	-.04751	.00887	.01460	.12130
50.443	4.260	-.68277	.07171	.01012	.01559	.11725
GRADIENT		.21273	.05079	.00053	.00042	-.00173

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)   (BNH034)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RUN NO. 341/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.515	-.031	2.51092	-.24921	.00664	-.00541	.11953
1.466	2.266	-1.16419	-.20461	.00293	-.00527	.10428
1.364	4.259	-.67431	-.17471	-.00394	-.00987	.08881
GRADIENT		-.76421	.01742	-.00245	-.00101	-.00715

RUN NO. 342/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.218	-.127	2.57828	-.28033	.01082	-.00472	.12153
2.877	2.324	-1.14453	-.20975	.01292	.00036	.11170
3.380	4.353	-.67451	-.17420	.00804	.00234	.09629
GRADIENT		-.75323	.02386	-.00057	.00058	-.00558

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (BNH034)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.400	-.285	3.24316	-.25600	-.00809	-.01539	.10858
7.390	2.312	-1.14957	-.19509	.00827	-.00376	.11081
7.046	4.212	-.70670	-.15669	.00757	.00294	.10712
	GRADIENT	-.92654	.02217	.00365	.00410	-.00025

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.858	-.243	4.64369	-.24912	-.00412	-.01032	.10815
9.870	2.334	-1.15481	-.19217	.00837	-.00502	.10866
9.840	4.253	-.70876	-.14218	.00707	-.00079	.10591
	GRADIENT	-1.24944	.02369	.00262	.00245	-.00046

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.745	-.254	6.21326	-.22494	-.00658	-.00685	.10771
14.663	2.332	-1.12412	-.15431	.00523	-.00216	.11275
14.715	4.248	-.70779	-.10864	.00719	.00064	.10659
	GRADIENT	-1.61091	.02592	.00314	.00167	-.00012

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.743	-.267	60.85520	-.23485	.00107	.00135	.11895
29.911	2.360	-1.07952	-.19217	.00630	.00767	.11603
29.627	4.268	-.70237	-.13699	.00693	.00665	.11312
	GRADIENT	-14.18202	.02125	.00133	.00124	-.00127

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.607	-.235	-12.13530	-.25015	.00263	.00591	.11561
44.784	2.345	-1.04204	-.22226	.00944	.01218	.12210
44.631	4.291	-.68888	-.17463	-.00537	-.00051	.10437
	GRADIENT	2.62290	.01637	-.00153	-.00122	-.00222

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (BNH034)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RUN NO. 348/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.960	-.239	-12.55280	-.27066	.01302	.01329	.11854
50.084	2.361	-1.04145	-.21149	.00920	.01247	.11818
50.051	4.269	-.68776	-.16914	.00929	.01148	.11269
	GRADIENT	2.73696	.02253	-.00086	-.00040	-.00123

RUN NO. 349/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
61.655	-.279	-11.52990	-.27732	.00846	.01228	.12087
61.629	2.289	-1.03663	-.20577	.00830	.01157	.11773
61.640	4.275	-.67977	-.15842	.01006	.01060	.11566
	GRADIENT	2.46424	.02620	.00033	-.00036	-.00115

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (BNH035)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB =	4.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RUN NO. 351/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.392	.007	164.01700	-.17766	-.01203	-.01908	.09228
3.273	2.270	-1.25836	-.14253	-.01701	-.02208	.07109
3.233	4.244	-.75960	-.09689	-.01876	-.02170	.06451
	GRADIENT	-39.71856	.01898	-.00160	-.00064	-.00662

RUN NO. 352/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.633	-.212	37.00720	-.18709	-.01995	-.03253	.08664
7.582	2.387	-1.17041	-.13338	-.00581	-.01257	.08779
7.362	4.282	-.75083	-.09257	-.00383	-.01060	.08167
	GRADIENT	-8.77880	.02101	.00370	.00505	-.00101

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (BNH035)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 353/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.664	-.213	-700.68500	-.19502	-.00364	-.01147	.10635
9.916	2.313	-1.16429	-.12729	-.00290	-.01234	.09669
9.803	4.259	-.74429	-.08342	.00056	-.00457	.08777
	GRADIENT	162.35378	.02505	.00091	.00145	-.00414

RUN NO. 354/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.113	-.270	-92.81610	-.16820	-.01907	-.02627	.09531
14.808	2.324	-1.12704	-.10567	-.00963	-.01476	.09485
14.693	4.304	-.72841	-.07369	-.01748	-.02388	.07237
	GRADIENT	20.90085	.02084	.00051	.00072	-.00477

RUN NO. 355/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.891	-.272	-14.91500	-.22740	-.01575	-.02133	.08892
29.979	2.346	-1.07645	-.17974	-.00324	-.00729	.10399
29.891	4.294	-.70249	-.13502	-.00128	-.00451	.09869
	GRADIENT	3.23404	.02012	.00326	.00378	.00234

RUN NO. 356/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.449	-.271	-7.84328	-.23974	-.02416	-.02309	.08812
44.799	2.322	-1.07270	-.18637	-.01029	-.00921	.09855
44.865	4.260	-.69762	-.14837	.00265	-.00140	.09939
	GRADIENT	1.63355	.02019	.00588	.00482	.00257

ARC 14-120(CA23B) 747/1 ATI O3S1 (CARRIER DATA)　　　(BNH036) (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 361/ 0　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.654	2.302	-1.14169	-.49859	-.02087	-.03101	.06905
2.469	4.194	-.68385	-.46469	-.00608	-.01337	.08001
	GRADIENT	.24199	.01792	.00782	.00932	.00579

RUN NO. 362/ 0　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
2.877	2.012	-1.23931	-.51020	-.01401	-.02496	.07860
3.365	4.405	-.65527	-.45550	-.00456	-.01674	.08091
	GRADIENT	.24411	.02286	.00395	.00344	.00097

RUN NO. 363/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.393	2.013	-1.21638	-.50989	-.01897	-.02698	.08163
7.226	4.376	-.67040	-.47570	-.00814	-.01653	.07960
	GRADIENT	.23105	.01447	.00459	.00442	-.00086

RUN NO. 364/ 0　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.858	2.049	-1.18023	-.51373	-.01709	-.02727	.08365
10.104	4.457	-.66621	-.47412	-.00247	-.01141	.08745
	GRADIENT	.21344	.01645	.00607	.00659	.00158

RUN NO. 365/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.553	2.097	-1.14245	-.51440	-.01816	-.03074	.08360
14.643	4.474	-.66153	-.47149	-.01627	-.02163	.07586
	GRADIENT	.20231	.01805	.00079	.00383	-.00326

RUN NO. 366/ 0　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.819	2.159	-1.06316	-.52173	-.01907	-.02443	.08631
29.992	4.411	-.66163	-.48221	-.00091	-.00770	.09280
	GRADIENT	.17836	.01756	.00806	.00743	.00288

ARC 14-120(CA23B) 747/1 AT1 035I (CARRIER DATA)   (BNH036)   (21 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
45.057	2.052	-1.10125	-.52932	-.01712	-.02303	.08681
44.937	4.371	-.67327	-.47958	.00013	-.00880	.10027
GRADIENT		.18454	.02145	.00744	.00614	.00580

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.129	2.015	-1.14599	-.53569	-.01688	-.02279	.08757
50.420	4.439	-.64462	-.47697	-.00296	-.00705	.10050
GRADIENT		.20681	.02422	.00574	.00649	.00534

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
62.057	2.140	-1.02573	-.51827	-.01557	-.00215	.07892
61.853	4.416	-.65643	-.47569	-.01056	.00116	.10003
GRADIENT		.16220	.01870	.00220	.00145	.00927

ARC 14-120(CA23B) 747/1 AT1 035I (CARRIER DATA)   (BNH037)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.955	.521	-2.94599	-.18508	-.02881	-.04126	.06207
1.879	2.297	1.81194	-.12834	-.02718	-.04308	.05788
1.932	4.335	.44568	-.08540	-.01551	-.02727	.06653
GRADIENT		.85121	.02601	.00354	.00377	.00124

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (BNH037)   (08 OCT 75)

REFERENCE DATA

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

BETA =	.000	STAB = -1.000
RUDDER =	.000	ELEVON = .000
IORB =	6.000	DX = .000
DY =	.000	MACH = .600

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.611	-.073	-1.77135	-.21197	-.02968	-.03980	.06797
3.412	2.415	1.42633	-.11326	-.01431	-.02875	.07073
3.341	4.372	.40531	-.08503	-.01766	-.02596	.06423
	GRADIENT	.52495	.02905	.00262	.00317	-.00076

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.238	-.184	-1.78509	-.18236	-.02480	-.03460	.07010
7.611	2.515	1.01363	-.09699	-.01353	-.02559	.07308
7.497	4.363	.34106	-.06457	-.01364	-.02464	.06741
	GRADIENT	.50936	.02633	.00258	.00227	-.00047

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.003	-.096	-1.96877	-.16776	-.02205	-.02555	.08926
9.942	2.401	1.10677	-.07022	-.03157	-.03502	.06840
10.030	4.474	.29295	-.06214	-.02035	-.02869	.06975
	GRADIENT	.51976	.02365	.00023	-.00079	-.00441

RUN NO. 375/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.990	.036	-2.44757	-.12781	-.03110	-.03083	.07957
14.729	2.374	.96177	-.06054	-.03181	-.03154	.06681
14.795	4.458	.25681	-.03783	-.01901	-.01955	.07398
	GRADIENT	.62865	.02052	.00267	.00249	-.00135

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.795	-.037	-2.76896	-.20160	-.03354	-.03195	.07599
29.929	2.359	.71669	-.13270	-.03219	-.03192	.06961
30.138	4.506	.17341	-.09510	-.01187	-.01670	.08207
	GRADIENT	.66325	.02355	.00469	.00329	.00126

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (BNH037)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
45.027	-.096	-2.20770	-.23377	-.02966	-.02727	.07512
44.952	2.497	.49506	-.14491	-.01138	-.01191	.08931
44.914	4.260	.16022	-.12923	-.01603	-.01818	.08561
	GRADIENT	.58084	.02477	.00342	.00237	.00264

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.481	.036	-4.00969	-.23368	-.03096	-.02990	.07363
50.592	2.316	.57429	-.14974	-.02074	-.01858	.08709
50.369	4.524	.13316	-.12874	-.01618	-.01915	.08278
	GRADIENT	.92891	.02345	.00330	.00241	.00206

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
61.632	-.013	-4.35894	-.21753	-.03237	-.02998	.07182
61.965	2.379	.50479	-.14095	-.01648	-.01837	.08410
61.651	4.408	.13185	-.12582	-.02613	-.02480	.06966
	GRADIENT	1.04582	.02108	.00157	.00128	-.00032

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (BNH038)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
1.603	.046	1.45142	-.24748	-.02193	-.02086	.10438
1.569	2.293	-.83623	-.18893	-.01769	-.01742	.09272
2.306	4.387	-.50517	-.17348	-.01149	-.01633	.09220
	GRADIENT	-.45766	.01716	.00240	.00105	-.00284

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)

(BNH03B)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB =	5.000
RUDDER	=	.000	ELEVON =	5.000
IORB	=	6.000	DX =	.000
DY	=	.000	MACH =	.600

RUN NO. 382/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.468	.019	1.96777	-.28775	-.02966	-.02781	.09199
3.699	2.422	-.84050	-.20870	.01751	-.02154	.09279
3.469	4.425	-.52386	-.18270	.01441	-.01172	.09483
	GRADIENT	-.58539	.02414	.00352	.00362	-.00063

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.736	-.027	3.32970	-.25028	-.03118	-.03118	.08877
6.902	2.422	-.87295	-.19849	.01621	-.01810	.09745
7.339	4.419	-.55707	-.17718	-.01781	-.01998	.08710
	GRADIENT	-.90556	.01662	.00312	.00262	-.00023

RUN NO. 384/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
10.309	.047	7.61963	-.22687	-.03486	-.02901	.09322
9.703	2.409	-.90244	-.19481	-.01708	-.01816	.09632
10.031	4.489	-.56966	-.17389	-.01489	-.01651	.09090
	GRADIENT	-1.88313	.01196	.00457	.00285	-.00048

RUN NO. 385/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.037	-.141	3.24423	-.24969	-.03255	-.03122	.08754
14.856	2.495	-.91278	-.19340	.01889	-.01619	.09661
14.876	4.418	-.60026	-.16619	.01414	-.01279	.09433
	GRADIENT	-.88490	.01850	.00411	.00414	.00161

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
30.304	-.165	-17.29290	-.25363	-.03054	-.02787	.08977
29.816	2.497	-.95607	-.20443	-.01630	-.01279	.09886
30.280	4.402	-.65588	-.16985	-.02100	-.02473	.08509
	GRADIENT	3.80243	.01836	.00230	.00101	-.00074

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ARC 14-120(CA23B). 747/1 AT1 03S1 (CARRIER DATA)   (BNH038)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 387/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.879	.070	-4.18970	-.23216	-.02715	-.03089	.09703
44.946	2.481	-.96982	-.19139	-.01762	-.01681	.10451
44.926	4.448	-.65011	-.16409	-.01390	-.01390	.10272
	GRADIENT	.82805	.01560	.00306	.00395	.00137

RUN NO. 388/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
49.971	-.037	-4.92873	-.23924	-.03211	-.03050	.08593
50.192	2.513	-.94454	-.19994	-.01885	-.01722	.10315
50.609	4.284	-.67468	-.16467	-.00969	-.01241	.10350
	GRADIENT	1.02499	.01713	.00519	.00426	.00425

RUN NO. 389/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
61.515	-.115	-9.00624	-.24393	-.03020	-.03235	.08493
60.520	2.529	-.95206	-.19812	-.02079	-.02025	.09444
	GRADIENT	3.04628	.01733	.00356	.00458	.00360

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (BNH039)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = 10.000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 391/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.148	2.388	-.90506	-.46302	-.01866	-.03392	.07800
3.390	4.253	-.54597	-.44281	-.01043	-.02592	.07452
	GRADIENT	.19154	.01078	.00439	.00427	-.00186

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (BNH039)   (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.500

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.312	2.139	-1.00618	-.47651	-.02831	-.04393	.06831
7.376	4.461	-.56051	-.44309	-.01575	-.02888	.07565
	GRADIENT	.19197	.01439	.00541	.00648	.00316

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.885	2.001	-1.08046	-.48829	-.01557	-.02548	.08615
10.083	4.424	-.60489	-.45399	-.01888	-.03235	.06963
	GRADIENT	.19631	.01416	-.00172	-.00284	-.00682

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
15.083	2.141	-1.04924	-.49591	-.01511	-.03007	.08666
14.830	4.433	-.62086	-.46280	-.02424	-.03557	.07223
	GRADIENT	.18693	.01445	-.00398	-.00240	-.00630

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.781	2.045	-1.13126	-.50631	-.01575	-.02137	.08774
29.790	4.494	-.64080	-.46832	-.00454	-.01254	.09125
	GRADIENT	.20024	.01551	.00458	.00360	.00143

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.565	2.160	-1.05824	-.50327	-.02924	-.03003	.07652
44.873	4.367	-.66476	-.47304	-.01751	-.02305	2.10101
	GRADIENT	.17825	.01369	.00531	.00316	.91710

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
50.286	2.123	-1.07578	-.50835	-.02461	-.02672	.08169
50.569	4.396	-.66422	-.46982	-.01722	-.02118	.08042
	GRADIENT	.18107	.01695	.00325	.00244	-.00056

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(BNH040) (08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 401/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.048	-.004	6.81192	-.24448	-.02201	-.02878	.08545
3.021	2.318	-1.06919	-.22140	-.03423	-.03984	.06213
3.274	4.401	-.66173	-.18574	-.02026	-.02270	.07670
GRADIENT		-1.72913	.01327	.00029	.00126	-.00214

RUN NO. 402/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.066	-.091	11.51960	-.26316	-.02063	-.02361	.09525
7.198	2.490	-1.02612	-.22881	-.01943	-.02132	.08412
7.335	4.405	-.67117	-.18566	-.03059	-.03299	.06193
GRADIENT		-2.83228	.01702	-.00206	-.00192	-.00723

RUN NO. 403/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.793	.024	-37.22160	-.26275	-.02441	-.03036	.08871
9.766	2.449	-1.04920	-.22665	-.01913	-.01994	.08110
9.745	4.293	-.68871	-.18728	-.01704	-.02512	.07591
GRADIENT		8.88333	.01754	.00175	.00138	-.00301

RUN NO. 404/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.781	-.155	12.07500	-.27966	-.03276	-.03730	.07418
14.685	2.568	-.98470	-.21586	-.01788	-.02031	.08235
14.592	4.303	-.69195	-.18237	-.02525	-.02845	.06636
GRADIENT		-3.03545	.02197	.00202	.00236	-.00133

RUN NO. 405/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.804	-.120	-19.91820	-.24631	-.02548	-.02791	.08652
29.944	2.563	-.99420	-.19702	-.01662	-.01769	.08626
29.835	4.329	-.69584	-.15210	-.01706	-.01598	.08230
GRADIENT		4.54461	.02095	.00201	.00277	-.00088

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　(BNH040)　(08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 405/ 0　　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.515	-.091	-8.84545	-.23410	-.02950	-.03297	.07282
44.728	2.446	-1.02431	-.18946	-.01366	-.01609	.08558
44.671	4.476	-.66923	-.14233	-.01948	-.01651	.07945
	GRADIENT	1.84325	.01999	.00236	.00373	.00160

ARC 14-120(CA23B)　747/1 AT1 02S1 (CARRIER DATA)　　　(BNH041)　(08 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.500

RUN NO. 411/ 0　　RN/L = 2.97　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.328	2.137	-1.15480	-.19080	-.02879	-.02734	.07289
3.325	4.298	-.66194	-.16938	-.02555	-.03350	.06335
	GRADIENT	.22807	.00991	.00150	-.00285	-.00442

RUN NO. 412/ 0　　RN/L = 2.96　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
6.838	2.085	-1.11233	-.20468	-.02770	-.02806	.07342
7.184	4.439	-.65947	-.16439	-.02638	-.03111	.06382
	GRADIENT	.19239	.01712	.00056	-.00129	-.00408

RUN NO. 413/ 0　　RN/L = 2.98　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
9.770	2.218	-1.07042	-.20276	-.02620	-.02438	.07686
9.780	4.469	-.66793	-.16504	-.02721	-.02649	.07125
	GRADIENT	.17875	.01675	-.00045	-.00093	-.00249

(BNH041)   (08 OCT 75)

ARC 14-120(CA23B)   747/1 ATI 0251   (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.500

RUN NO. 414/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
14.789	1.286	-1.15583	-.20394	-.04863	-.04398	.04939
14.819	4.441	-.67103	-.15856	-.04174	-.03852	.04893
GRADIENT		.19751	.01849	.00281	.00223	-.00019

RUN NO. 415/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
29.638	2.215	-1.06478	-.17656	-.03094	-.02405	.07164
29.826	4.415	-.67879	-.14474	-.02294	-.01932	.07061
GRADIENT		.17546	.01447	.00364	.00215	-.00047

RUN NO. 416/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
44.438	2.214	-1.02392	-.17245	-.04145	-.03645	.05670
44.694	4.330	-.67845	-.13659	-.04718	-.04037	.04492
GRADIENT		.16331	.01695	-.00271	-.00185	-.00557

(BNH042)   (08 OCT 75)

ARC 14-120(CA23B)   747/1 ATI 0251   (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.300

RUN NO. 421/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
3.128	2.209	-.98826	-.14807	-.15411	-.14534	-.05938
3.123	4.221	-.65050	-.12816	-.08272	-.08095	.00423
GRADIENT		.16785	.00990	.03548	.03200	.03161

RUN NO. 422/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPCC	CPSB1	CPSB2
7.085	2.291	-.93493	-.14143	-.08087	-.07733	.01636
7.303	4.347	-.65417	-.13197	-.08046	-.07334	.01294
GRADIENT		.13655	.00460	.00020	.00194	-.00166

ARC 14-120(CA23B) 747/1 ATI O2S1 (CARRIER DATA)   (BNH042)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC			BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC			RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC			IORB = 4.000	DX = 5.000
SCALE = .0125				DY = .000	MACH = .300

RUN NO. 423/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP		XYCP	CPCC	CPSB1	CPSB2
9.285	2.180	-1.01386		-.14275	-.14445	-.14007	-.04983
9.970	4.347	-.66128		-.12707	-.08184	-.07297	.00774
	GRADIENT	.16270		.00724	.02889	.03096	.02657

RUN NO. 424/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP		XYCP	CPCC	CPSB1	CPSB2
14.488	2.266	-1.00470		-.13829	-.15348	-.15697	-.06088
14.575	4.354	-.66324		-.12075	-.14908	-.14296	-.04861
	GRADIENT	.16356		.00840	.00211	.00671	.00588

RUN NO. 425/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP		XYCP	CPCC	CPSB1	CPSB2
29.804	2.191	-1.03721		-.12777	-.14265	-.14002	-.04365
29.724	4.292	-.68210		-.10617	-.06659	-.07547	-.00980
	GRADIENT	.16902		.01028	.03620	.03072	.02544

RUN NO. 426/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP		XYCP	CPCC	CPSB1	CPSB2
44.766	2.202	-1.01339		-.11757	-.08289	-.07403	.01637
44.688	4.266	-.70006		-.09983	-.07506	-.07152	.01347
	GRADIENT	.15181		.00859	.00379	.00122	-.00140

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ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH008)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 81/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
4.365	.192	.58953	6.79528	.02554	-.20623	.32322	.07449	.01796	.00383	.00119	-.00061
2.954	2.364	.58961	8.20568	-.05088	.20371	.34335	.07990	.02524	.00384	.00098	-.00080
3.443	4.308	.59037	10.25770	-.08104	.23854	.41083	.09462	.03238	.00373	.00072	-.00083
	GRADIENT	.00020	.83739	-.02607	.10961	.02105	.00484	.00350	-.00002	-.00011	-.00005

RUN NO. 82/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.994	-.126	.58956	6.00552	-.12176	-.34829	.29147	.07116	.01310	.00320	.00117	-.00062
7.541	2.378	.58924	8.29366	.00073	-.32784	.35258	.08152	.02247	.00327	.00104	-.00083
7.335	4.361	.59180	10.30330	-.08161	-.49519	.42281	.09718	.02950	.00349	.00070	-.00079
	GRADIENT	.00047	.95577	.01067	-.03097	.02906	.00573	.00366	.00006	-.00010	-.00004

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.751	-.141	.59169	6.01990	-.16550	-.54241	.29271	.07182	.01168	.00254	.00102	-.00082
9.637	2.414	.59244	8.28560	.04687	-.44705	.35522	.08185	.02208	.00154	.00070	-.00114
9.522	4.401	.59008	10.30680	-.06067	-.42173	.42160	.09774	.02830	.00337	.00071	-.00096
	GRADIENT	-.00033	.94128	.02611	.02708	.02820	.00562	.00368	.00016	-.00007	-.00004

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.752	-.014	.59254	6.14126	-.10545	-.49569	.29345	.07311	.01060	.00262	.00099	-.00090
15.063	2.461	.59202	8.39154	-.02080	-.33369	.36068	.08390	.02063	.00277	.00088	-.00112
15.188	4.492	.59069	10.47500	-.10713	-.43565	.43824	.10173	.02723	.00347	.00059	-.00094
	GRADIENT	-.00040	.95993	.00147	.01520	.03195	.00628	.00370	.00018	-.00009	-.00001

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.536	-.028	.59150	6.09616	-.09164	-.41648	.29030	.07457	.00807	.00228	.00099	-.00096
29.860	2.464	.59156	8.37419	.00094	-.32859	.37193	.08663	.01850	.00237	.00082	-.00120
29.902	4.306	.59173	10.26970	-.13705	-.42608	.44641	.10374	.02378	.00317	.00044	-.00118
	GRADIENT	.00005	.96007	-.00776	-.00008	.03583	.00662	.00366	.00020	-.00012	-.00005

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (CNH008)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETA	=	-5.00/ 5.00
RUDDER	=	
IORB	=	
DY	=	

STAB	=	-1.000
ELEVON	=	5.000
DX	=	.000
MACH	=	.600

RUN NO. 86/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.873	.59219	-.065	6.08741	-.08155	-.48477	.28755	.07578	.00651	.00179	.00091	-.00087
44.666	.59329	2.496	8.78191	-.05515	-.48370	.37755	.08855	.01673	.00183	.00071	-.00113
45.029	.59219	4.342	10.32980	-.21858	-.52900	.46497	.10787	.02206	.00287	.00038	-.00113
GRADIENT	.00003		.95852	-.02730	-.00939	.03994	.00714	.00356	.00023	-.00012	-.00006

RUN NO. 87/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.039	.59335	-.106	6.00790	.05961	-.54456	.28716	.07559	.00605	.00155	.00084	-.00092
50.412	.59218	2.490	8.42595	-.20322	-.44509	.38105	.08955	.01637	.00194	.00079	-.00089
50.166	.59202	4.334	10.27840	-.19609	-.49766	.46418	.10770	.02127	.00270	.00036	-.00091
GRADIENT	-.00031		.95987	-.06045	.01238	.03963	.00711	.00346	.00025	-.00010	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (CNH009)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETA	=	-5.00/ 5.00
RUDDER	=	
IORB	=	
DY	=	

STAB	=	-1.000
ELEVON	=	5.000
DX	=	.000
MACH	=	.600

RUN NO. 91/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.075	.59107	.274	8.98241	-2.26005	-.48266	.44169	.09300	.02196	.00436	.00072	-.00080
7.276	.59100	2.380	10.26110	-.15449	-.50319	.46721	.10281	.02713	.00456	.00059	-.00050
7.800	.59115	4.334	12.33510	-.09343	-.54526	.54411	.12890	.03283	.00565	.00023	-.00070
GRADIENT	.00002		.82302	.53973	-.01535	.02506	.00879	.00268	.00032	-.00023	-.00003

RUN NO. 92/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.930	.59119	-.015	8.14574	-.14314	-.47456	.39464	.08505	.01955	.00358	.00089	-.00101
10.153	.59200	2.498	10.44690	-.03224	-.44624	.47117	.10506	.02618	.00507	.00064	-.00073
9.843	.59032	4.339	12.29420	-.06667	-.55214	.54829	.12987	.03168	.00581	.00026	-.00067
GRADIENT	-.00017		.95062	.01999	-.01611	.03500	.01016	.00278	.00052	-.00025	.00008

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (CNH009)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA =	-5.00/ 5.00
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER =	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB =	
SCALE = .0125			DY =	

STAB = .000   -1.000
ELEVON = .000   5.000
DX = 8.000   .000
MACH = .000   .600

RUN NO. 93/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.862	-.101	.59246	8.04677	-.13258	-.38124	.38716	.08490	.01778	.00241	.00067	-.00103
14.490	2.534	.59206	10.40940	.00278	-.47713	.47076	.10540	.02488	.00373	.00035	-.00096
15.108	4.322	.59336	12.32420	-.12014	-.54510	.55332	.13221	.02962	.00584	-.00036	-.00074
GRADIENT		.00018	.96159	.00646	-.03699	.03712	.01048	.00268	.00075	-.00022	.00006

RUN NO. 94/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.926	-.027	.59233	8.10042	-.14976	-.52747	.39182	.08726	.01596	.00251	.00066	-.00127
29.957	2.539	.59264	10.47820	-.09792	-.43116	.48686	.11019	.02256	.00418	.00020	-.00103
29.720	4.365	.59102	12.31910	-.14966	-.56262	.57788	.13909	.02682	.00608	-.00048	-.00055
GRADIENT		-.00027	.95845	.00134	-.00504	.04202	.01162	.00248	.00080	-.00026	.00016

RUN NO. 95/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.465	-.192	.59190	7.89170	-.04396	-.57621	.37731	.08671	.01335	.00261	.00077	-.00118
44.798	2.406	.59246	10.32970	-.06445	-.44672	.48328	.10999	.02038	.00351	.00018	-.00094
44.826	4.485	.59147	12.45260	-.18625	-.47087	.59809	.14554	.02436	.00547	-.00043	-.00076
GRADIENT		-.00008	.97370	-.02950	.02384	.04695	.01243	.00237	.00060	-.00026	.00009

RUN NO. 96/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.555	-.078	.59172	8.07496	-.00083	-.51299	.38959	.08864	.01410	.00297	.00072	-.00122
50.407	2.550	.59179	10.48780	-.00063	-.48408	.49604	.11279	.02015	.00354	.00004	-.00104
50.452	4.393	.59307	12.38500	-.12157	-.45860	.59731	.14506	.02332	.00481	-.00062	-.00062
GRADIENT		.00028	.95078	-.02516	.01208	.04505	.01239	.00208	.00040	-.00030	.00013

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ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH010)   (08 OCT 75)

RUN NO. 101/ 0   RN/L = 3.39   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.742	.132	.59549	8.00852	-.12109	.03761	.39792	.08455	.02173	.00359	.00089	-.00112
7.349	2.303	.59593	10.24330	-.02354	.14223	.47605	.10446	.02713	.00393	.00035	-.00102
7.463	4.270	.59467	12.22970	-.05880	.11115	.55401	.13110	.03225	.00528	.00035	-.00069
	GRADIENT	-.00019	1.02022	.01557	.01830	.03769	.01121	.00254	.00040	-.00030	.00010

RUN NO. 102/ 0   RN/L = 3.38   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.009	-.206	.59438	7.96112	-.15476	-.38643	.39677	.08500	.01936	.00292	.00086	-.00107
10.088	2.335	.59797	10.27510	-.02114	-.41237	.48054	.10575	.02591	.00408	.00045	-.00069
10.447	4.346	.59846	12.36190	-.09557	-.31935	.56640	.13557	.03085	.00559	.00052	-.00045
	GRADIENT	-.00092	.96426	.01471	-.01366	.03707	.01098	.00252	.00058	-.00030	.00014

RUN NO. 103/ 0   RN/L = 3.37   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.028	-.178	.59684	7.98002	-.14715	-.34488	.39903	.08571	.01831	.00244	.00073	-.00124
14.812	2.367	.59644	10.27820	-.01582	-.39669	.48078	.10654	.02454	.00340	.00027	-.00099
15.043	4.381	.59768	12.36480	-.09065	-.41872	.57061	.13713	.02939	.00522	.00052	-.00085
	GRADIENT	-.00017	.95906	.01408	-.01637	.03739	.01114	.00243	.00060	-.00027	.00009

RUN NO. 104/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.734	-.108	.59714	8.00410	-.10253	-.51265	.39952	.08753	.01619	.00170	.00065	-.00129
30.254	2.360	.59646	10.33170	-.08537	-.47228	.49701	.11075	.02228	.00329	.00006	-.00099
29.860	4.407	.59578	12.36740	-.12801	-.46917	.59031	.14282	.02652	.00410	.00055	-.00068
	GRADIENT	-.00030	.95574	-.00522	.00985	.04217	.01215	.00229	.00054	-.00026	.00014

RUN NO. 105/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.868	-.111	.59615	8.01493	-.11246	-.41856	.39915	.08840	.01515	.00162	.00064	-.00131
45.183	2.422	.59623	10.39430	-.11112	-.43596	.50907	.11364	.02097	.00368	.00009	-.00075
45.129	4.429	.59500	12.42070	-.22071	-.48760	.60571	.14740	.02436	.00374	.00049	-.00094
	GRADIENT	-.00024	.96903	-.02280	-.01485	.04540	.01286	.00204	.00048	-.00025	.00009

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

(CNH010) (08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 106/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.418	.59354	-.076	8.06252	-.00328	-.42559	.39865	.08915	.01455	.00156	.00068	-.00117
50.480	.59459	2.472	10.42250	-.01726	-.50454	.50677	.11388	.02014	.00371	.00009	-.00062
50.477	.59433	4.415	12.40590	-.14625	-.54820	.61095	.14839	.02383	.00392	-.00050	-.00072
GRADIENT	.00019		.96499	-.03050	-.02749	.04702	.01301	.00207	.00054	-.00026	.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

(CNH011) (08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 111/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.151	.59320	.047	4.01104	-.06958	-.18456	.18355	.06131	.01139	.00273	.00103	-.00071
3.118	.59295	2.270	6.13462	-.06761	-.22048	.24220	.06651	.01752	.00305	.00111	-.00055
3.528	.59212	4.264	8.21639	-.09397	-.22023	.30306	.07512	.02486	.00262	.00092	-.00069
GRADIENT	-.00025		.99629	.00149	-.00861	.02830	.00326	.00319	-.00002	.00002	.00000

RUN NO. 112/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.547	.59381	-.170	4.03841	-.20703	-.12903	.19545	.06224	.00826	.00284	.00119	-.00068
7.199	.59203	2.385	6.25137	.12007	-.22900	.25253	.06797	.01520	.00290	.00106	-.00082
7.175	.59299	4.257	8.17837	-.04267	-.20347	.30360	.07603	.02238	.00368	.00114	-.00084
GRADIENT	-.00021		.93117	.04249	-.01813	.02537	.00306	.00316	.00018	-.00001	-.00004

RUN NO. 113/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.781	.59267	-.120	4.05269	-.16821	-.18607	.19573	.06261	.00697	.00327	.00122	-.00081
9.781	.59142	2.353	6.23779	.09256	-.22556	.25535	.06862	.01381	.00317	.00115	-.00080
9.491	.59138	4.419	8.30710	-.01048	-.22926	.31451	.07706	.02198	.00324	.00103	-.00095
GRADIENT	-.00029		.93566	.03704	-.00973	.02611	.00316	.00329	-.00001	-.00004	-.00003

ARC 14-120(CA238)   747/1 AT1 02S1 (ORBITER DATA)   (CNH011)   (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 114/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.874	-.041	.59347	4.15214	-.12322	-.19547	.20029	.06411	.00529	.00357	.00131	-.00091
14.967	2.414	.59386	6.32741	-.01929	-.23114	.26277	.07015	.01263	.00340	.00129	-.00081
14.923	4.392	.59566	8.34322	-.17291	-.18094	.32567	.07916	.02140	.00318	.00107	-.00097
GRADIENT		-.00048	.94304	-.00909	.00257	.02817	.00336	.00361	-.00009	-.00005	-.00001

RUN NO. 115/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.907	-.177	.59500	4.00406	-.12413	-.17462	.19487	.06522	.00217	.00283	.00120	-.00106
29.803	2.432	.59479	6.32040	-.14288	-.23873	.27269	.07318	.01051	.00218	.00101	-.00098
29.693	4.435	.59391	8.35864	-.12964	-.21969	.34705	.08319	.01999	.00315	.00104	-.00117
GRADIENT		-.00023	.94143	-.00149	-.01050	.03284	.00386	.00383	.00005	-.00004	-.00002

RUN NO. 116/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.786	-.134	.59320	4.02465	-.06309	-.24970	.19449	.06665	.00065	.00215	.00107	-.00100
45.057	2.347	.59320	6.29147	-.22253	-.27150	.28463	.07483	.00925	.00213	.00101	-.00092
44.452	4.450	.59252	8.35115	-.10643	-.18981	.36513	.08620	.01858	.00279	.00096	-.00110
GRADIENT		-.00014	.94287	-.01108	.01242	.03719	.00424	.00390	.00013	-.00002	-.00002

ARC 14-120(CA238)   747/1 AT1 02S1 (ORBITER DATA)   (CNH012)   (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 121/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.209	.038	.59480	5.99659	-.06803	-.28949	.29210	.06961	.01664	.00433	.00120	-.00062
3.176	2.411	.59631	8.26383	-.05291	-.22924	.34938	.07925	.02634	.00410	.00104	-.00069
3.398	4.319	.59450	10.27320	-.08407	-.32241	.41676	.09481	.03311	.00440	.00075	-.00070
GRADIENT		-.00004	.99710	-.00334	-.00637	.02892	.00581	.00386	.00001	-.00010	-.00002

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (CNH012) (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 122/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.586	-.026	.59403	6.16280	-.20573	-.26645	.30505	.07102	.01434	.00402	.00123	-.00082
7.752	2.399	.59281	8.34562	-.04076	-.30365	.36180	.08137	.02393	.00482	.00121	-.00102
7.261	4.448	.59334	10.37730	-.07958	-.41296	.42709	.09717	.03053	.00475	.00085	-.00112
GRADIENT		-.00016	.94074	.02940	-.03222	.02716	.00580	.00363	.00017	-.00008	-.00007

RUN NO. 123/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.180	-.156	.59296	6.05873	-.19455	-.29121	.30080	.07119	.01271	.00414	.00121	-.00109
9.988	2.439	.59362	8.34630	.02098	-.28681	.35950	.08155	.02265	.00449	.00113	-.00104
10.110	4.458	.59257	10.42810	-.10402	-.32093	.43751	.09921	.02971	.00429	.00063	-.00116
GRADIENT		-.00007	.94394	.02257	-.00606	.02930	.00598	.00369	.00004	-.00012	-.00001

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (CNH013) (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 131/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.093	.127	.59355	6.06234	-.01073	-.54464	.29869	.07136	.01782	.00195	.00101	-.00043
3.006	2.255	.59495	8.09604	-.05380	-.49183	.34994	.08007	.02619	.00302	.00108	-.00040
3.460	4.338	.59342	10.28890	-.06887	-.57379	.42077	.09640	.03339	.00255	.00077	-.00047
GRADIENT		-.00003	1.00357	-.01383	-.00681	.02397	.00594	.00370	.00014	-.00006	-.00001

RUN NO. 132/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.217	-.139	.59173	6.01524	-.15708	-.42273	.29924	.07180	.01398	.00197	.00108	-.00044
7.234	2.360	.59269	8.25183	.04116	-.50229	.35760	.08178	.02363	.00244	.00104	-.00058
7.262	4.367	.59204	10.29700	-.06766	-.51025	.42833	.09774	.03051	.00225	.00075	-.00055
GRADIENT		-.00008	.94800	.02224	-.01992	.02843	.00569	.00368	.00007	-.00007	-.00003

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)

(CNHO13)   (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

STAB =	.000	BETA =	5.000
ELEVON =	.000	RUDDER =	5.000
DX =	6.000	IORB =	.000
MACH =	.600	DY =	

RUN NO. 133/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.116	-.237	.59189	5.97668	-.21796	-.45642	.29924	.07209	.01266	.00244	.00123	-.00060
9.960	2.407	.59154	8.30916	.00486	-.58665	.36120	.08236	.02314	.00186	.00091	-.03070
9.890	4.371	.59196	10.31750	-.10588	-.58819	.43175	.09849	.02965	.00261	.00073	-.00072
	GRADIENT	.00001	.93856	.02768	-.02975	.02846	.00563	.00370	.00002	-.00011	-.00003

RUN NO. 134/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.175	-.191	.59168	6.02236	-.14580	-.48842	.29907	.07274	.01157	.00194	.00103	-.00067
14.756	2.411	.59073	8.30132	-.10008	-.50023	.36298	.08364	.02146	.00187	.00090	-.00073
15.038	4.441	.59089	10.40650	-.06533	-.53208	.43963	.10085	.02823	.00233	.00058	-.00089
	GRADIENT	-.00018	.94319	.02092	-.00920	.03008	.00598	.00361	.00008	-.00009	-.00005

RUN NO. 135/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.192	-.063	.59060	6.12957	-.13999	-.48303	.30273	.07456	.00999	.00205	.00099	-.00100
29.830	2.435	.59017	8.34504	.02612	-.52953	.37641	.08638	.01984	.00195	.00083	-.00096
29.948	4.393	.59049	10.35230	-.12102	-.48783	.45628	.10440	.02574	.00331	.00063	-.00098
	GRADIENT	-.00003	.94505	.00706	-.00187	.03424	.00661	.00355	.00027	-.00008	.00001

RUN NO. 136/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.708	-.049	.59048	6.08505	-.03050	-.55682	.29870	.07513	.00898	.00123	.00096	-.00067
44.452	2.450	.59053	8.32281	.06383	-.52600	.37968	.08733	.01851	.00153	.00083	-.00090
44.667	4.474	.59092	10.41210	-.13420	-.55187	.46929	.10755	.02404	.00227	.00044	-.00076
	GRADIENT	.00009	.95448	-.02059	.00153	.03752	.00708	.00335	.00023	-.00011	-.00002

RUN NO. 137/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.164	-.057	.59060	6.08766	.02680	-.50309	.29697	.07585	.00813	.00127	.00097	-.00064
50.275	2.433	.59151	8.35052	-.22483	-.52458	.38359	.08893	.01765	.00143	.00087	-.00064
50.038	4.464	.59112	10.39360	-.15954	-.56778	.47523	.10877	.02322	.00239	.00046	-.00053
	GRADIENT	.00012	.95078	-.04344	-.01410	.03926	.00720	.00336	.00024	-.00011	-.00002

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH014)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 10.000
DY = .000	MACH = .600

RUN NO. 141/ 0 — RN/L = 3.33 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.58874	2.292	3.324	8.14864	9.83387	-.61049	.35035	.08094	.02242	.00205	.00117	-.00021
	.58797	4.239	3.528	10.18740	9.90698	-.62378	.40963	.09541	.02775	.00184	.00091	-.00044
GRADIENT	-.00040			1.04754	.03756	-.00683	.03046	.00743	.00274	-.00011	-.00013	-.00012

RUN NO. 142/ 0 — RN/L = 3.32 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.59106	1.933	7.340	8.03902	9.83965	-.57642	.35830	.08128	.01997	.00212	.00111	-.00049
	.59023	4.300	7.097	10.18070	9.98195	-.56853	.41837	.09642	.02518	.00201	.00086	-.00054
GRADIENT	-.00035			.90459	.06010	.00333	.02537	.00640	.00220	-.00004	-.00010	-.00002

RUN NO. 143/ 0 — RN/L = 3.32 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.58948	1.946	10.137	8.07874	9.80002	-.65521	.35981	.08197	.01872	.00108	.00097	-.00063
	.58978	4.403	9.825	10.29950	9.94826	-.61097	.42415	.09808	.02447	.00145	.00080	-.00057
GRADIENT	.00012			.90381	.06033	.01800	.02619	.00656	.00234	.00015	-.00007	-.00003

RUN NO. 144/ 0 — RN/L = 3.31 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.58834	1.968	14.831	8.07216	9.88695	-.56380	.36106	.08296	.01753	.00130	.00101	-.00051
	.58834	4.376	14.775	10.27830	9.98489	-.67370	.43154	.09987	.02328	.00173	.00075	-.00073
GRADIENT	.00000			.91632	.04068	-.04564	.02927	.00702	.00239	.00018	-.00011	-.00009

RUN NO. 145/ 0 — RN/L = 3.31 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.58824	1.907	30.007	8.10933	9.83759	-.54460	.37372	.08552	.01637	.00126	.00092	-.00082
	.59120	4.374	29.873	10.31920	9.90959	-.67261	.45572	.10431	.02239	.00143	.00053	-.00099
GRADIENT	.00124			.92270	.03006	-.05345	.03424	.00785	.00251	.00007	-.00016	-.00007

RUN NO. 146/ 0 — RN/L = 3.30 — GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DZ	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	.59220	1.998	44.854	8.09096	9.89672	-.59050	.37508	.08629	.01541	.00140	.00102	-.00071
	.59175	4.430	44.891	10.36500	9.89048	-.62597	.47522	.10792	.02161	.00114	.00038	-.00079
GRADIENT	-.00019			.93496	-.00257	-.01458	.04117	.00889	.00255	-.00011	-.00026	-.00003

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (CNH014)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   6.000   DX   =   10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 147/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.387	2.049	.59016	8.14847	9.92864	-.58366	.38305	.08763	.01580	-.00014	.00069	-.00068
50.182	4.431	.59062	10.35190	9.93609	-.63135	.47280	.10773	.02132	.00127	.00046	-.00060
	GRADIENT	.00019	.92503	.00313	-.02002	.03768	.00844	.00232	.00059	-.00010	.00003

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (CNH015)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   8.000   DX   =   10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 151/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.261	2.410	.59012	10.27640	9.87396	-.64955	.46732	.10364	.02450	.00279	.00066	-.00049
7.540	4.362	.58935	12.32900	9.88592	-.65076	.54361	.12866	.02917	.00483	.00001	-.00016
	GRADIENT	-.00039	1.05174	.00613	-.00062	.03909	.01282	.00239	.00105	-.00033	.00017

RUN NO. 152/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.896	2.043	.58898	10.12980	9.84214	-.69514	.47149	.10320	.02354	.00322	.00071	-.00054
10.215	4.469	.58898	12.42930	9.88451	-.62920	.55680	.13246	.02845	.00498	-.00012	-.00043
	GRADIENT	-.00000	.94813	.01747	.02719	.03518	.01206	.00202	.00072	-.00034	.00004

RUN NO. 153/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.806	2.079	.58834	10.16290	9.83145	-.73897	.47632	.10483	.02243	.00282	.00051	-.00075
14.750	4.497	.59019	12.41680	9.90355	-.69922	.56613	.13512	.02707	.00451	-.00037	-.00024
	GRADIENT	.00076	.93236	.02983	.01644	.03715	.01253	.00192	.00070	-.00036	.00021

RUN NO. 154/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.131	2.049	.58930	10.16660	9.85376	-.59362	.49289	.10874	.02076	.00310	.00038	-.00076
30.087	4.493	.59112	12.45850	9.88809	-.66197	.59235	.14258	.02493	.00459	-.00038	-.00023
	GRADIENT	.00074	.93764	.01404	-.02796	.04069	.01385	.00170	.00061	-.00031	.00022

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (CNH015)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	STAB = 5.000
LREF	=	474.8100 IN.	YMRP =	.0000 IN. YO	ELEVON = 5.000
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN. ZO	DX = 10.000
SCALE	=	.0125			MACH = .600

BETA = .000   RUDDER = .000   IORB = 8.000   CY = .000

RUN NO. 155/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CY	CLM	CYN	CBL
44.833	2.044	.58992	10.11530	9.84286	-.70105	.49116	.10874	.00244	.01962	.00020	-.00093
45.102	4.460	.58952	12.43770	9.80066	-.69118	.60459	.14565	.00449	.02362	-.00025	-.00035
	GRADIENT	-.00016	.96142	-.01747	.00409	.04696	.01528	.00085	.00166	-.00019	.00024

RUN NO. 156/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CY	CLM	CYN	CBL
50.292	2.016	.58875	10.08650	9.95743	-.71722	.49414	.10914	.00273	.01936	.00025	-.00067
50.425	4.375	.58946	12.34030	9.90189	-.65667	.60587	.14524	.00354	.02314	-.00045	-.00016
	GRADIENT	.00030	.95528	-.02354	.02566	.04736	.01530	.00035	.00160	-.00029	.00022

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (CNH016)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	STAB = 5.000
LREF	=	474.8100 IN.	YMRP =	.0000 IN. YO	ELEVON = 5.000
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN. ZO	DX = 20.000
SCALE	=	.0125			MACH = .600

BETA = .000   RUDDER = .000   IORB = 6.000   DY = .000

RUN NO. 161/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CY	CLM	CYN	CBL
2.997	2.461	.56393	8.27632	19.88670	-.85192	.35256	.08452	.00288	.01793	.00108	-.00039
3.241	4.340	.59018	10.26730	19.94590	-.73584	.41163	.09864	.00320	.02208	.00089	-.00055
	GRADIENT	.00013	1.06004	.03152	.06180	.03145	.00752	.00017	.00221	-.00010	-.00009

RUN NO. 162/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CY	CLM	CYN	CBL
7.114	2.024	.58931	8.10145	19.88560	-.81205	.35885	.08383	.00338	.01503	.00121	-.00066
7.110	4.482	.58955	10.36010	19.99690	-.80660	.42292	.10007	.00365	.01946	.00096	-.00080
	GRADIENT	.00010	.91870	.04120	.00222	.02606	.00661	.00011	.00180	-.00010	.00006

RUN NO. 163/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CY	CLM	CYN	CBL
10.110	1.989	.59022	8.13025	19.81960	-.76563	.36144	.08427	.00277	.01420	.00105	-.00072
9.502	4.485	.58900	10.34260	20.00000	-.81234	.42304	.10027	.00346	.01867	.00085	-.00082
	GRADIENT	-.00049	.88639	.07228	-.01871	.02468	.00641	.00028	.00179	-.00008	.00004

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (CNH016) (08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RUN NO. 164/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.885	2.147	.58950	8.26269	19.89530	-.82928	.36955	.08553	.01408	.00291	.00101	-.00081
14.669	4.296	.58971	10.20060	20.01710	-.74015	.42908	.10025	.01823	.00347	.00072	-.00102
GRADIENT		.00010	.90195	.05669	.04148	.02771	.00685	.00193	.00026	-.00014	-.00010

RUN NO. 165/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.970	2.006	.59006	8.11890	19.88350	-.30714	.37392	.08589	.01379	.00286	.00094	-.00112
29.738	4.442	.59030	10.34740	19.95900	-.36086	.45395	.10496	.01904	.00278	.00061	-.00092
GRADIENT		.00010	.91480	.03099	-.02205	.03285	.00783	.00216	-.00003	-.00013	.00008

RUN NO. 166/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.740	2.001	.58963	8.08105	19.87420	-.75225	.37675	.08659	.01384	.00215	.00087	-.00089
44.620	4.440	.58976	10.34770	19.88250	-.77199	.46952	.10736	.01946	.00306	.00047	-.00108
GRADIENT		.00005	.92940	.00340	-.00810	.03804	.00852	.00231	.00037	-.00016	-.00007

RUN NO. 167/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.218	1.983	.58890	8.06786	19.98550	-.80823	.37603	.08697	.01368	.00217	.00092	-.00085
50.509	4.478	.58886	10.43010	19.90790	-.77122	.47511	.10909	.01948	.00324	.00042	-.00097
GRADIENT		-.00002	.94658	-.03110	-.01483	.03970	.00887	.00233	.00043	-.00020	-.00005

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (CNH017)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = 5.00	STAB = .000	5.000
RUDDER =	ELEVON = .000	5.000
IORB =	DX = 8.000	20.000
DY =	MACH = .000	.600

RUN NO. 171/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.409	2.320	.59052	10.20990	19.85050	-.73949	.46268	.10417	.02117	.00380	.00062	-.00090
7.682	4.409	.58988	12.38070	19.85190	-.88774	.54214	.12999	.02461	.00590	-.00011	-.00031
	GRADIENT	-.00031	1.03942	.00067	-.07099	.03805	.01236	.00165	.00101	-.00035	.00028

RUN NO. 172/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.200	1.989	.59146	10.12200	19.86550	-.83323	.46954	.10444	.02029	.00444	.00067	-.00084
9.876	4.367	.59089	12.28790	19.96400	-.80872	.54341	.13000	.02350	.00510	-.00021	-.00057
	GRADIENT	-.00024	.91088	.04142	.01030	.03107	.01075	.00135	.00028	-.00037	.00011

RUN NO. 173/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.980	2.042	.59126	10.15750	19.87800	-.83951	.47141	.10518	.01925	.00464	.00055	-.00120
14.840	4.390	.59227	12.31590	19.95010	-.82679	.55127	.13200	.02242	.00524	-.00027	-.00066
	GRADIENT	.00043	.91935	.03071	.00542	.03401	.01143	.00135	.00025	-.00035	.00023

RUN NO. 174/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.168	1.994	.59111	10.12010	19.85060	-.87986	.48149	.10731	.01832	.00438	.00050	-.00101
29.810	4.397	.59085	12.32620	19.90240	-.75313	.57931	.13886	.02203	.00624	-.00041	-.00079
	GRADIENT	-.00011	.91819	.02156	.05275	.04071	.01313	.00154	.00077	-.00038	.00009

RUN NO. 175/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.854	2.109	.59147	10.18690	19.84610	-.82726	.49282	.10942	.01842	.00332	.00012	-.00088
45.244	4.417	.59090	12.41310	19.77770	-.77838	.59969	.14446	.02183	.00516	-.00043	-.00087
	GRADIENT	-.00025	.96464	-.02964	.02118	.04631	.01519	.00148	.00080	-.00024	.00000

RUN NO. 176/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHA0	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.344	2.118	.59046	10.19050	19.95560	-.87380	.49087	.10974	.01816	.00362	.00028	-.00088
50.595	4.352	.59133	12.33830	19.88730	-.81367	.59769	.14366	.02146	.00529	-.00040	-.00074
	GRADIENT	.00039	.96146	-.03057	.02692	.04782	.01518	.00148	.00075	-.00031	.00006

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (CNH01B)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

		BETA =	
RUDDER =	
IORB =	
DY =	

PARAMETRIC DATA

STAB =	.000	5.000
ELEVON =	.000	5.000
DX =	6.000	.000
MACH =	10.000	.600

RUN NO. 181/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.378	2.472	.59115	8.33671	-.12064	9.62659	.36398	.08162	.02639	.00301	-.00040	-.00391
3.590	4.405	.59201	10.37400	-.08127	9.59622	.42915	.09697	.03430	.00146	-.00099	-.00654
	GRADIENT	-.00045	1.05348	.02036	-.01570	.03370	.00794	.00409	-.00080	-.00030	-.00136

RUN NO. 182/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.711	2.009	.59096	8.13180	-.20008	9.51655	.36882	.08232	.02261	.00200	-.00013	-.00296
7.202	4.378	.58954	10.27110	-.01628	9.62298	.43373	.09791	.03028	.00130	-.00067	-.00523
	GRADIENT	-.00060	.90293	.07757	.04492	.02740	.00658	.00324	-.00029	-.00023	-.00096

RUN NO. 183/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.911	2.005	.59142	8.10379	-.17612	9.57279	.36763	.08245	.02174	.00248	.00007	-.00297
10.102	4.475	.59168	10.41380	-.06798	9.48457	.44477	.10067	.02961	.00114	-.00075	-.00478
	GRADIENT	.00011	.93526	.04378	-.03572	.03123	.00738	.00319	-.00054	-.00033	-.00073

RUN NO. 184/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.973	2.102	.59109	8.20417	-.19876	9.52500	.37273	.08407	.02085	.00229	.00022	-.00286
14.736	4.362	.59144	10.27250	-.05627	9.52253	.44470	.10075	.02800	.00119	-.00043	-.00394
	GRADIENT	.00016	.91486	.06303	-.00109	.03183	.00738	.00316	-.00049	-.00029	-.00048

RUN NO. 185/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.716	2.100	.59179	8.16409	-.17495	9.55144	.37583	.08607	.01815	.00214	.00055	-.00211
29.761	4.335	.59187	10.25280	-.11756	9.58290	.45344	.10471	.02466	.00169	.00006	-.00276
	GRADIENT	.00004	.93464	.02568	.01408	.03697	.00834	.00291	-.00020	-.00027	-.00029

RUN NO. 186/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.733	1.972	.59095	8.04435	-.07776	9.51284	.37850	.08701	.01643	.00198	.00069	-.00164
44.856	4.308	.59177	10.24170	-.08370	9.47621	.47175	.10751	.02290	.00217	.00012	-.00197
	GRADIENT	.00035	.94063	-.00254	-.01568	.03992	.00877	.00277	.00008	-.00025	-.00014

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH018)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

STAB =   5.000
ELEVON =   5.000
DX =   6.000
MACH =   .600

RUN NO. 187/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.952	2.021	.59027	8.06519	-.05049	9.55487	.37761	.08749	.01579	.00216	-.00074	-.00140
50.410	4.396	.59076	10.34680	-.12212	9.63862	.47963	.10931	.02249	.00212	.00006	-.00175
	GRADIENT	.00020	.96074	-.03016	.03527	.04296	.00919	.00282	-.00002	-.00029	-.00015

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH019)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

STAB =   5.000
ELEVON =   5.000
DX =   8.000
MACH =   .600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.491	2.405	.59105	10.30160	-.19122	9.49085	.48240	.10492	.02815	.00282	-.00067	-.00386
7.844	4.380	.59167	12.38840	-.09388	9.47890	.56503	.13297	.03356	.00162	-.00104	-.00549
	GRADIENT	.00031	1.05655	.04929	-.00605	.04183	.01420	.00274	-.00061	-.00019	-.00082

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.818	2.116	.59083	10.17870	-.13626	9.42647	.48416	.10452	.02671	.00311	-.00047	-.00336
9.759	4.310	.59198	12.23590	-.04223	9.43453	.55980	.13127	.03195	.00220	-.00101	-.00468
	GRADIENT	.00052	.93779	.04286	.00367	.03448	.01219	.00239	-.00042	-.00024	-.00060

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.864	1.964	.59227	10.05070	-.15746	9.48663	.47579	.10407	.02448	.00243	-.00014	-.00253
15.018	4.414	.59154	12.36710	-.07712	9.47787	.57081	.13585	.03050	.00300	-.00082	-.00361
	GRADIENT	-.00030	.94548	.03279	-.00358	.03879	.01297	.00246	.00023	-.00028	-.00044

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.225	2.014	.59214	10.12240	-.19612	9.39762	.48645	.10757	.02239	.00264	.00005	-.00179
30.105	4.404	.59179	12.37380	-.14130	9.41791	.59328	.14262	.02730	.00235	-.00069	-.00207
	GRADIENT	-.00014	.94210	.02294	-.00849	.04470	.01467	.00206	-.00012	-.00031	-.00012

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

REFERENCE DATA   (CNH019)   (08 OCT 75)

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

STAB =	.000	5.000	BETA =
ELEVON =	.000	5.000	RUDDER =
DX =	8.000	.000	IORB =
MACH =	10.000	.600	DY =

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
44.421	2.014	10.02770	.59170	-.16199	.48929	.10806	9.45087	.02098	.00296	.00008	-.00155
45.079	4.380	12.36580	.59194	-.23329	.60659	.14609	9.39875	.02543	.00422	-.00032	-.00155
GRADIENT		.98810	-.00010	-.03013	.04957	.01607	-.02203	.00188	.00053	-.00017	-.00000

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
50.290	2.002	10.06530	.59172	-.10008	.49297	.10901	9.48992	.02060	.00292	.00016	-.00113
50.279	4.323	12.27740	.59165	-.12280	.60466	.14522	9.32532	.02454	.00331	-.00054	-.00136
GRADIENT		.95279	-.00003	-.00978	.04811	.01560	-.07090	.00169	.00017	-.00030	-.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

REFERENCE DATA   (CNH020)   (21 OCT 75)

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

STAB =	.000	5.000	BETA =
ELEVON =	.000	.000	RUDDER =
DX =	4.000	.000	IORB =
MACH =	.000	.600	DY =

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
2.999	.056	4.00251	.58831	-.04123	.11196	.05481	-.23247	.04604	.00287	.00075	-.00108
2.972	2.231	6.08127	.58905	-.02004	.16998	.05692	-.45838	.05121	.00322	.00079	-.00125
3.376	4.258	8.18834	.58842	-.10046	.22952	.06265	-.24934	.05845	.00359	.00085	-.00098
GRADIENT		.99573	.00003	-.01381	.02797	.00186	-.00523	.00294	.00017	.00002	.00002

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	DY	CLM	CY	CYN	CBL
7.356	-.232	3.96105	.58699	-.11584	.11644	.05530	-.45749	.04273	.00249	.00074	-.00119
7.305	2.422	6.30038	.58730	-.05714	.17558	.05808	-.37696	.04874	.00338	.00084	-.00119
7.176	4.286	8.19710	.58692	-.06747	.23487	.06336	-.36099	.05684	.00396	.00082	-.00119
GRADIENT		.93375	-.00001	.01148	.02595	.00173	.02197	.00306	.00032	.00002	-.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (CNH020)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO.   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.998	-.190	.58793	4.02219	-.11365	-.37733	.11783	.05584	.04137	.00354	.00091	-.00141
9.822	2.393	.58937	6.27375	-.05987	-.30188	.18199	.05862	.04801	.00391	.00090	-.00142
9.715	4.416	.59040	8.32394	-.08454	-.41242	.23935	.06440	.05621	.00405	.00096	-.00109
GRADIENT		.00054	.93124	.00698	-.00595	.02632	.00182	.00319	.00011	.00001	.00007

RUN NO.   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.608	-.076	.58772	4.08571	-.06537	-.37283	.12129	.05627	.03985	.00310	.00080	-.00155
14.941	2.433	.58701	6.34658	-.07447	-.40100	.18745	.05988	.04647	.00323	.00083	-.00136
14.567	4.425	.58680	8.32952	-.05492	-.38851	.24878	.06607	.05566	.00330	.00076	-.00116
GRADIENT		-.00021	.94105	.00207	-.00381	.02824	.00215	.00348	.00004	-.00001	.00009

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.742	-.160	.58720	4.00738	-.10009	-.36988	.11649	.05774	.03660	.00269	.00073	-.00165
29.812	2.421	.58738	6.31885	-.11181	-.40752	.19767	.06231	.04446	.00224	.00062	-.00146
29.770	4.475	.58798	8.40410	-.11226	-.35652	.26885	.06963	.05453	.00302	.00062	-.00152
GRADIENT		.00016	.94646	.00271	.00215	.03282	.00253	.00383	.00006	-.00003	.00003

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.518	-.106	.58472	4.02971	.03690	-.36779	.11609	.05835	.03527	.00222	.00070	-.00147
44.662	2.474	.58704	6.37077	-.16221	-.37945	.20682	.06370	.04328	.00234	.00065	-.00155
44.473	4.486	.58677	8.38738	-.08498	-.47223	.28382	.07175	.05370	.00278	.00055	-.00145
GRADIENT		.00047	.94707	-.02887	-.02190	.03647	.00288	.00397	.00012	-.00003	.00000

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC I4-120(CA23B) 747/I ATI 02SI (ORBITER DATA)   (CNH021)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   -1.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   4.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 211/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAQ	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.110	.173	.59032	4.13765	.05551	-.20611	.11084	.05294	.04741	.00321	.00081	-.00106
3.078	2.255	.58980	6.12604	.06801	-.21105	.16378	.05504	.05197	.00382	.00087	-.00112
3.099	4.353	.58919	8.25467	-.06491	-.16472	.22732	.06108	.06029	.00348	.00074	-.00101
	GRADIENT	-.00027	.98490	-.02885	.00992	.02787	.00195	.00308	.00006	-.00002	.00001

RUN NO. 212/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAQ	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.673	-.126	.58936	4.09240	-.18828	-.18525	.11534	.05380	.04404	.00371	.00091	-.00131
7.105	2.399	.59041	6.25655	.15853	-.09697	.16995	.05606	.04986	.00332	.00082	-.00113
7.181	4.355	.59012	8.27549	-.01836	-.15793	.23263	.06189	.05809	.00335	.00072	-.00117
	GRADIENT	.00018	.92981	.04263	.00747	.02596	.00176	.00310	.00008	-.00004	.00003

RUN NO. 213/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAQ	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.888	-.253	.58982	3.93747	-.15837	-.11137	.10882	.05397	.04222	.00315	.00079	-.00132
10.133	2.398	.58989	6.31405	.06994	-.24594	.17686	.05687	.04878	.00352	.00052	-.00122
9.989	4.413	.59053	8.35993	-.07054	-.19440	.23951	.06307	.05762	.00292	.00060	-.00121
	GRADIENT	.00015	.94507	.02227	-.01948	.02789	.00191	.00326	.00004	-.00004	.00003

RUN NO. 214/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAQ	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.808	-.052	.58985	4.11715	-.15706	-.17204	.11956	.05483	.04118	.00316	.00076	-.00163
14.795	2.452	.59025	6.35432	.07017	-.23071	.18293	.05817	.04764	.00286	.00073	-.00133
14.946	4.403	.59031	8.36005	-.10634	-.11922	.24702	.06469	.05658	.00331	.00069	-.00116
	GRADIENT	.00011	.94963	.01505	.01022	.02846	.00217	.00341	.00003	-.00002	.00011

RUN NO. 215/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAQ	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.743	-.137	.58938	4.01695	-.08435	-.19008	.11721	.05644	.03793	.00241	.00071	-.00144
29.755	2.487	.58988	6.37588	.09984	-.25948	.19605	.06090	.04539	.00258	.00068	-.00158
29.747	4.402	.58886	8.36645	.09113	-.25259	.26473	.06819	.05481	.00289	.00065	-.00127
	GRADIENT	-.00010	.94850	.00278	-.01453	.03235	.00253	.00367	.00010	-.00001	.00003

ARC 14-120(CA23B)　747/1 AT1 02S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

(CNH021)　(08 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY =	MACH = .600

RUN NO. 216/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.609	-.114	.58927	4.02468	-.01984	-.25920	.11722	.05765	.03645	.00143	.00061	-.00130
44.499	2.547	.58928	6.42453	-.11469	-.27177	.21113	.06283	.04454	.00189	.00060	-.00154
44.744	4.315	.58963	8.26444	-.16824	-.15241	.27695	.07013	.05358	.00186	.00064	-.00112
	GRADIENT	.00008	.95288	-.03368	.02181	.03601	.00275	.00380	.00010	.00001	.00003

ARC 14-120(CA23B)　747/1 AT1 02S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

(CNH022)　(08 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .600
DY =	MACH = .600

RUN NO. 221/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.175	.180	.58751	8.11954	-.16244	-.11696	.32022	.06965	.05895	.00279	.00059	-.00131
7.048	2.374	.58636	10.26950	-.05073	-.21394	.39060	.08444	.06696	.00341	.00042	-.00119
7.827	4.374	.58649	12.37650	-.15546	-.21015	.47504	.10919	.07284	.00430	.00038	-.00083
	GRADIENT	-.00025	1.01450	.00246	-.02258	.03684	.00938	.00332	.00036	.00023	.00011

RUN NO. 222/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.008	-.095	.58707	8.06837	-.20800	-.19570	.32555	.07076	.05723	.00338	.00067	-.00141
9.794	2.462	.58734	10.36610	-.06785	-.15123	.39462	.08654	.06573	.00380	.00034	-.00150
10.168	4.329	.58785	12.32470	-.15342	-.17388	.47846	.11014	.07118	.00472	-.00045	-.00107
	GRADIENT	.00017	.95815	.01487	.00567	.03411	.00874	.00316	.00030	-.00024	.00007

RUN NO. 223/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.875	-.131	.58685	8.01212	-.19848	-.24112	.31830	.07055	.05534	.00215	.00044	-.00149
15.107	2.479	.58648	10.42410	-.11788	-.18222	.40138	.08780	.06525	.00311	.00023	-.00133
14.650	4.467	.58705	12.40420	-.05808	-.21425	.48539	.11280	.07012	.00606	-.00023	-.00112
	GRADIENT	.00003	.95356	.03055	.00669	.03611	.00906	.00324	.00083	-.00014	.00008

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (CNH022)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =		STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =		ELEVON = .000	.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =		DX = 8.000	.000
SCALE = .0125		DY =		MACH = .000	.600

RUN NO. 224/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.663	-.130	.58892	7.98338	-.10589	-.11844	.31787	.07174	.05342	.00254	.00051	-.00151
30.014	2.540	.58798	10.47220	-.08622	-.13268	.41218	.09086	.06292	.00305	.00014	-.00174
30.212	4.360	.58896	12.37080	-.18388	-.19792	.50728	.11872	.06715	.00468	-.00040	-.00116
	GRADIENT	-.00002	.97369	-.01553	-.01678	.04167	.01021	.00310	.00046	-.00020	.00007

RUN NO. 225/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.608	-.097	.58819	8.00014	-.04496	-.19464	.31483	.07255	.05170	.00209	.00048	-.00153
44.758	2.520	.58859	10.43710	-.06430	-.22195	.41711	.09205	.06112	.00240	.00010	-.00144
44.921	4.300	.58930	12.28420	-.18464	-.16737	.51553	.12035	.06465	.00428	-.00035	-.00113
	GRADIENT	.00024	.97103	-.02995	.00496	.04515	.01062	.00299	.00047	-.00019	.00009

RUN NO. 226/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.329	-.122	.58776	8.01036	-.00488	-.17679	.31404	.07275	.05120	.00237	.00063	-.00145
50.199	2.456	.58928	10.37780	-.00681	-.25490	.41323	.09168	.06030	.00239	.00013	-.00142
50.308	4.443	.58796	12.41190	-.14747	-.12834	.52194	.12285	.06379	.00481	-.00025	-.00118
	GRADIENT	.00007	.96199	-.02976	.00863	.04520	.01080	.00280	.00051	-.00019	.00006

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (CNH023)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =		STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =		ELEVON = .000	.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =		DX = 6.000	.000
SCALE = .0125		DY =		MACH = .000	.600

RUN NO. 231/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.160	.028	.58722	5.96832	-.09825	-.23409	.22048	.05934	.05058	.00317	.00077	-.00087
3.398	2.478	.58690	8.39557	-.15849	-.28051	.28263	.06722	.06179	.00326	.00067	-.00106
3.235	4.342	.58675	10.26840	-.07571	-.33921	.33985	.07781	.07102	.00378	.00056	-.00132
	GRADIENT	-.00011	.99639	.00370	-.02409	.02755	.00423	.00473	.00014	-.00005	-.00010

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNM023)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 232/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.044	-.157	.58689	5.98727	-.15115	-.25234	.22450	.05999	.04828	.00305	.00075	-.00116
7.210	2.438	.58783	8.31873	.02879	-.21173	.28278	.06705	.05945	.00300	.00063	-.00111
7.208	4.444	.58732	10.35950	-.09076	-.26838	.34392	.07907	.06857	.00294	.00034	-.00151
GRADIENT		.00011	.94774	.01582	-.00257	.02579	.00408	.00440	-.00002	-.00009	-.00007

RUN NO. 233/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.588	-.079	.58710	6.07114	-.10027	-.30779	.22535	.06049	.04747	.00282	.00072	-.00116
9.981	2.449	.58742	8.36328	.04293	-.30356	.28386	.06774	.05848	.00337	.00063	-.00132
9.714	4.418	.58742	10.33770	-.03724	-.32484	.34973	.07972	.06806	.00308	.00038	-.00148
GRADIENT		.00007	.94678	.01599	-.00354	.02745	.00421	.00457	.00006	-.00007	-.00007

RUN NO. 234/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.480	-.060	.58866	6.07355	-.09631	-.27927	.22328	.06097	.04599	.00280	.00078	-.00113
14.703	2.510	.58715	8.40095	.04960	-.33790	.29233	.06886	.05861	.00281	.00049	-.00142
14.839	4.425	.58701	10.36750	-.09613	-.31874	.35230	.08122	.06641	.00326	.00040	-.00145
GRADIENT		-.00038	.95454	.00318	-.00958	.02866	.00443	.00457	.00010	-.00008	-.00007

RUN NO. 235/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.767	-.083	.58751	6.07234	-.13999	-.25442	.22294	.06225	.04360	.00242	.00070	-.00133
29.743	2.454	.58780	8.35515	-.00939	-.21638	.29434	.07087	.05531	.00272	.00058	-.00139
29.929	4.441	.58780	10.39440	-.17552	-.28857	.37769	.08587	.06476	.00297	.00021	-.00159
GRADIENT		.00007	.95279	-.00517	-.00653	.03393	.00514	.00468	.00012	-.00011	-.00006

RUN NO. 236/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.538	-.030	.58642	6.08798	.01963	-.30457	.22169	.06317	.04238	.00183	.00058	-.00143
44.541	2.408	.58834	8.29718	-.12451	-.27163	.30012	.07212	.05370	.00194	.00042	-.00128
44.965	4.398	.58776	10.36730	-.16344	-.27768	.39000	.08828	.06270	.00244	.00012	-.00138
GRADIENT		.00032	.96437	-.04201	.00635	.03780	.00560	.00459	.00013	-.00010	.00001

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

(CNH023)   (08 OCT 75)

PARAMETRIC DATA

BETA   =   .000   STAB   = 5.000
RUDDER =   .000   ELEVON =   .000
IORB   = 6.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 237/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.951	.58726	5.98166	-.140	.07546	-.38741	.21572	.06328	.04147	.00190	.00062	-.00126
49.970	.58814	8.41739	2.539	-.16393	-.35672	.30726	.07338	.05418	.00219	.00048	-.00136
50.050	.58821	10.35530	4.426	-.17706	-.34245	.39120	.08808	.06216	.00197	.00015	-.00120
GRADIENT	.00022	.95450		-.05759	.00995	.03814	.00548	.00454	.00002	-.00010	.00001

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

(CNH024)   (21 OCT 75)

PARAMETRIC DATA

BETA   =   .000   STAB   = -1.000
RUDDER =   .000   ELEVON =   .000
IORB   = 6.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 241/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.790	.58652	5.92147	.104	-.15532	-.03671	.21137	.05803	.05095	.00309	.00073	-.00118
3.147	.58700	8.27250	2.378	-.05770	-.03732	.27816	.06517	.06208	.00379	.00067	-.00114
3.235	.58753	10.30860	4.382	-.08859	-.02095	.33817	.07668	.07124	.00296	.00034	-.00142
GRADIENT	.00024	1.02571		.01621	.00360	.02963	.00433	.00474	-.00002	-.00009	-.00005

RUN NO. 242/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.214	.58739	6.05432	-.107	-.15883	-.13415	.22446	.05906	.04878	.00334	.00077	-.00125
7.169	.58740	8.32441	2.445	.04069	-.07016	.28003	.06615	.05961	.00388	.00076	-.00117
7.223	.58743	10.35700	4.433	-.07466	-.00760	.34450	.07819	.06931	.00366	.00043	-.00155
GRADIENT	.00001	.94519		.02130	.02775	.02623	.00415	.00451	.00008	-.00007	-.00006

RUN NO. 243/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.900	.58773	6.13824	-.036	-.18639	-.04378	.22659	.05967	.04809	.00260	.00072	-.00114
9.833	.58745	8.36642	2.466	.00386	-.04115	.28339	.06676	.05933	.00365	.00070	-.00123
9.797	.58776	10.29090	4.354	-.10428	-.09073	.34274	.07828	.06786	.00299	.00034	-.00159
GRADIENT	.00000	.94311		.02173	-.01008	.02624	.00416	.00450	.00011	-.00008	-.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)　　　(CNH024)　(21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 244/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.827	.58789	-.163	6.00907	-.12109	-.00497	.21919	.05997	.04569	.00291	.00076	-.00134
14.725	.58804	2.499	8.38433	.06072	-.02456	.28525	.06757	.05790	.00285	.00057	-.00140
14.404	.58739	4.287	10.19090	-.02626	.04104	.34606	.07880	.06632	.00359	.00046	-.00176
	-.00010	GRADIENT	.93614	.02495	.00897	.02823	.00413	.00463	.00014	-.00007	-.00009

RUN NO. 245/ 0　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.598	.58755	-.049	6.07204	-.10332	-.04473	.22314	.06170	.04377	.00264	.00069	-.00154
29.897	.58755	2.432	8.35352	-.03171	-.01269	.29697	.07041	.05567	.00258	.00046	-.00158
29.731	.58751	4.487	10.42190	-.14258	-.06341	.37656	.08545	.06496	.00382	.00031	-.00177
	-.00001	GRADIENT	.95764	-.00737	-.00354	.03371	.00518	.00467	.00025	-.00008	-.00005

RUN NO. 246/ 0　　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.528	.58586	-.131	5.98327	.01971	-.05457	.21715	.06257	.04177	.00179	.00058	-.00147
44.796	.58578	2.390	8.30857	-.16445	-.09489	.30272	.07209	.05392	.00230	.00041	-.00170
44.981	.58714	4.445	10.42130	-.16873	-.18341	.38995	.08821	.06241	.00287	.00027	-.00152
	.00027	GRADIENT	.96813	-.04237	-.02770	.03762	.00554	.00452	.00023	-.00007	-.00001

RUN NO. 247/ 0　　RN/L = 3.28　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.996	.58611	-.101	6.01605	.05285	-.02120	.22024	.06301	.04161	.00195	.00054	-.00166
50.084	.58686	2.534	8.42955	-.20397	-.03470	.30996	.07317	.05411	.00242	.00044	-.00163
50.059	.58763	4.394	10.32850	-.10617	-.10654	.38783	.08779	.06139	.00200	.00017	-.00145
	.00034	GRADIENT	.95645	-.03952	-.01806	.03707	.00540	.00442	.00002	-.00008	.00004

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH025) (21 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1109.0000 IN. XO
LREF	= 474.8100 IN.	YMRP	= .0000 IN. YO
BREF	= 936.6800 IN.	ZMRP	= 375.0000 IN. ZO
SCALE	= .0125		

PARAMETRIC DATA

	STAB =	.000	= -1.000
	ELEVON =	.000	= .000
	DX =	8.000	= .000
	MACH =	.000	= .600

BETA = , RUDDER = , IORB = , DY = 5.00

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.209	.039	.58717	8.00091	-.09563	.11623	.31259	.06763	.05772	.00389	.00075	-.00124
7.216	2.367	.58827	10.24160	-.08863	.00464	.38355	.08245	.06638	.00350	.00040	-.00126
7.326	4.353	.58735	12.30340	-.05354	-.00023	.45958	.10451	.07264	.00479	.00008	-.00134
GRADIENT		.00005	.99623	.00956	-.02759	.03397	.00849	.00347	.00020	-.00019	-.00002

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.339	-.027	.58781	8.05788	-.08374	.10359	.31706	.06821	.05714	.00321	.00060	-.00149
10.040	2.372	.58810	10.31470	-.03608	.05505	.38198	.08332	.06494	.00307	.00029	-.00134
10.061	4.478	.58756	12.45100	-.07388	.02201	.47699	.10938	.07199	.00550	.00029	-.00112
GRADIENT		-.00005	.97434	.00260	-.01816	.03530	.00907	.00329	.00050	-.00020	.00008

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.643	-.013	.58691	8.10708	-.11966	.04505	.31718	.06914	.05606	.00371	.00062	-.00168
15.082	2.543	.58837	10.48700	-.06077	.02168	.39605	.08603	.06515	.00366	.00029	-.00176
14.801	4.374	.58726	12.33140	-.09089	-.03326	.47466	.10890	.07034	.00426	.00038	-.00113
GRADIENT		.00011	.96086	.00761	-.01730	.03558	.00891	.00328	.00012	-.00022	.00012

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.827	-.162	.58717	7.96542	-.13995	.04759	.31289	.07023	.05293	.00300	.00056	-.00163
30.228	2.450	.58826	10.41380	-.12322	.00837	.40182	.08858	.06247	.00318	.00026	-.00141
30.232	4.437	.58845	12.44160	-.19907	-.04902	.50327	.11728	.06721	.00428	.00040	-.00097
GRADIENT		-.00029	.97138	-.01187	-.02070	.04102	.01007	.00313	.00027	-.00020	.00014

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.600	-.132	.58877	7.96473	-.06606	-.01682	.31097	.07126	.05116	.00281	.00056	-.00154
45.018	2.364	.58815	10.31080	-.11022	-.01804	.40676	.08949	.06040	.00284	.00020	-.00155
44.806	4.412	.58767	12.38870	-.19317	-.00796	.51655	.12037	.06474	.00385	.00038	-.00082
GRADIENT		-.00024	.97236	-.02761	.00238	.04500	.01068	.00302	.00022	-.00021	.00015

ARC 14-120(CA23B)   747/1 ATI 02S1   (ORBITER DATA)   (CNH025)   (21 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.823	-.233	.58747	7.83733	.02097	-.05236	.30597	.07094	.04989	.00223	.00058	-.00125
50.763	2.449	.58807	10.43110	.09531	.03018	.41685	.09176	.06038	.00283	.00016	-.00142
50.761	4.339	.58684	12.37400	.20688	.07273	.51974	.12110	.06395	.00437	.00027	-.00105
	GRADIENT	-.00011	.99048	.04939	.02759	.04639	.01075	.00313	.00045	.00018	.00004

ARC 14-120(CA23B)   747/1 ATI 03S1   (ORBITER DATA)   (CNH027)   (21 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 261/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.310	.046	.58593	8.02000	-.10996	.07740	.31854	.05219	.04290	.00701	-.00011	-.00224
7.309	2.283	.58706	10.17530	-.10062	.09110	.39025	.06615	.05179	.00828	-.00014	-.00236
7.865	4.288	.58635	12.29900	-.14232	.04415	.47588	.08957	.05619	.00877	-.00114	-.00220
	GRADIENT	.00011	1.00780	-.00740	-.00757	.03699	.00876	.00315	.00042	-.00024	-.00001

RUN NO. 252/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.835	-.171	.58650	7.97637	-.17277	.10647	.32135	.05242	.04049	.00776	.00005	-.00232
9.901	2.437	.58520	10.34850	-.05317	.03987	.39715	.06798	.05003	.00726	.00035	-.00208
9.652	4.384	.58597	12.31440	-.08957	.06373	.47653	.09008	.05384	.00931	.00097	-.00237
	GRADIENT	-.00012	.95000	.01979	-.01027	.03379	.00814	.00297	.00031	.00022	-.00001

RUN NO. 263/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.936	-.143	.58646	8.01648	-.19035	.05635	.32023	.05184	.03935	.00805	-.00044	-.00257
14.990	2.462	.58698	10.39360	-.08235	.03567	.40087	.05833	.04880	.00849	-.00081	-.00246
15.447	4.479	.58597	12.50860	.16821	.04642	.49592	.09513	.05224	.01134	-.00139	-.00217
	GRADIENT	-.00009	.96904	.00553	-.00242	.03767	.00922	.00283	.00069	-.00020	.00008

ARC 14-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)　　　(CNH027)　(21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 264/ 0　　RN/L = 3.27　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
29.711	-.161	7.95935	.58652	-.14677	.32016	.05364	.03492	.03516	.00830	-.00034	-.00275
29.841	2.529	10.44460	.58531	-.10279	.41319	.07212	.04535	.05502	.00839	-.00076	-.00240
30.092	4.385	12.37600	.58590	-.13616	.51046	.09894	.04861	.01473	.01053	-.00134	-.00229
GRADIENT		.96822	-.00016	.00334	.04134	.00974	.00307	-.00364	.00046	-.00022	.00010

RUN NO. 265/ 0　　RN/L = 3.27　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
44.673	-.113	7.98864	.58533	-.08756	.32317	.05480	.03411	-.00438	.00772	-.00050	-.00262
44.791	2.534	10.45630	.58607	-.09962	.42241	.07422	.04462	.06035	.00840	-.00074	-.00263
44.852	4.379	12.35100	.58533	-.18554	.52283	.10182	.04645	-.02875	.00983	-.00133	-.00215
GRADIENT		.96849	-.00002	-.02062	.04397	.01025	.00283	-.00540	.00045	-.00018	.00010

RUN NO. 266/ 0　　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
50.205	-.137	7.98867	.58469	.06098	.31625	.05492	.03224	.04605	.00816	-.00029	-.00264
50.115	2.437	10.34730	.58577	-.13316	.41737	.07334	.04331	.05734	.00844	-.00073	-.00254
50.310	4.427	12.39560	.58519	-.16478	.52972	.10381	.04611	.07898	.00964	-.00136	-.00206
GRADIENT		.96322	.00012	-.05071	.04641	.01054	.00310	.00708	.00031	-.00023	.00012

ARC 14-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)　　　(CNH028)　(21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO. 281/ 0　　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
3.140	2.460	8.29095	.58657	9.88371	.27650	.04962	.04146	.00383	.00829	.00018	-.00187
3.154	4.481	10.38510	.58709	9.89607	.33345	.05046	.05055	.14029	.00826	.00008	-.00228
GRADIENT		1.03598	.00026	.00611	.02817	.00535	.00450	.06751	-.00002	-.00005	-.000020

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI O3SI (ORBITER DATA)

(CNH028) (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO. 282/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.424	2.022	.58775	8.14688	9.89112	.02441	.28633	.04991	.03720	.00814	.00014	-.00212
7.204	4.410	.58829	10.29600	10.03350	.03213	.34279	.06083	.04606	.00801	-.00005	-.00249
GRADIENT		.00023	.90003	.05963	.00324	.02364	.00457	.00371	-.00005	-.00008	-.00016

RUN NO. 283/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.851	2.058	.58638	8.17312	9.90835	-.00656	.28964	.05022	.03572	.00753	-.00008	-.00218
9.970	4.488	.58659	10.40820	9.98861	.07583	.35024	.06224	.04501	.00767	-.00023	-.00245
GRADIENT		.00009	.92385	.03317	.03405	.02505	.00497	.00384	.00006	-.00006	-.00011

RUN NO. 284/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.671	2.026	.58596	8.11471	9.91614	.07964	.29105	.05050	.03377	.00748	-.00010	-.00232
14.337	4.481	.58697	10.73430	10.04080	.01744	.34995	.06249	.04297	.00735	-.00023	-.00259
GRADIENT		.00001	.90410	.05078	-.02534	.02399	.00488	.00375	-.00005	-.00005	-.00011

RUN NO. 285/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.878	2.180	.58699	8.28611	9.85463	.05921	.30400	.05358	.03368	.00735	-.00025	-.00237
29.674	4.515	.58714	10.41500	9.93482	.06578	.37830	.06765	.04372	.00788	-.00041	-.00273
GRADIENT		.00006	.91162	.03434	.00282	.03181	.00603	.00430	.00022	-.00007	-.00016

RUN NO. 286/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.780	2.093	.58656	8.18310	9.89025	-.01014	.30245	.05435	.03263	.00703	-.00036	-.00230
45.100	4.521	.58637	10.47830	9.85318	.09425	.39338	.07086	.04307	.00768	-.00048	-.00224
GRADIENT		-.00008	.94521	-.01527	.04299	.03745	.00680	.00430	.00026	-.00005	.00003

RUN NO. 287/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.200	2.061	.58636	8.14261	9.95868	.05490	.30621	.05452	.03265	.00712	-.00028	-.00237
50.258	4.539	.58679	10.46300	9.91845	.01787	.39960	.07135	.04334	.00759	-.00057	-.00238
GRADIENT		.00018	.93625	-.01631	-.01494	.03768	.00679	.00431	.00019	-.00012	-.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)

(CNH029) (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.34390	.58846	9.93909	.03727	.38697	.06659	.04835	.00813	-.00024	-.00235	7.274	2.465
12.41160	.58807	9.89734	.03280	.46421	.08765	.05271	.00938	-.00066	-.00289	7.616	4.442
GRADIENT 1.04555	-.00020	-.02111	-.00226	.03905	.00220	.00220	.00063	-.00022	-.00027		GRADIENT

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.16860	.58779	9.84159	-.01357	.38881	.06613	.04625	.00789	-.00026	-.00215	10.037	2.057
12.43630	.58837	9.91158	.06365	.47236	.08942	.05036	.00913	-.00087	-.00265	10.105	4.486
GRADIENT .93338	.00024	.02881	.03178	.03439	.00959	.00169	.00051	-.00025	-.00021		GRADIENT

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.13820	.58818	9.83260	.09566	.39230	.06660	.04412	.00763	-.00049	-.00228	15.073	2.020
12.34200	.58829	9.91415	.05812	.47393	.08973	.04807	.00864	-.00113	-.00244	14.864	4.412
GRADIENT .92115	.00005	.03409	-.01569	.03412	.00967	.00165	.00042	-.00026	-.00007		GRADIENT

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.25250	.58847	9.79538	.05260	.40908	.07047	.04290	.00769	-.00065	-.00242	30.231	2.128
12.45730	.58839	9.85045	.04924	.50740	.09868	.04566	.00971	-.00138	-.00219	29.953	4.510
GRADIENT .92581	-.00003	.02312	-.00141	.04129	.01185	.00116	.00085	-.00031	.00010		GRADIENT

RUN NO. 295/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.13000	.58898	9.89695	.06428	.40655	.07092	.04194	.00769	-.00063	-.00258	44.559	2.087
12.41470	.58942	9.82664	.13076	.52122	.10218	.04497	.00939	-.00131	-.00200	45.001	4.446
GRADIENT .96844	.00019	-.02556	.02818	.04861	.01325	.00128	.00072	-.00029	.00025		GRADIENT

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	DZ	ALPHAC
10.07900	.58684	9.99054	.05093	.40652	.07061	.04152	.00755	-.00045	-.00212	50.108	2.027
12.54340	.58697	9.89004	.07529	.53118	.10498	.04488	.00935	-.00108	-.00211	50.709	4.547
GRADIENT .97795	.00005	-.03988	.00967	.04947	.01364	.00133	.00072	-.00025	.00000		GRADIENT

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC I' 20(CA23B) 747/1 ATI O3SI (ORBITER DATA)   (CNHO301)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA   =   .000   STAB   =   5.000
RUDDER =   .000   ELEVON =   .000
IORB   =   8.000   DX   = 20.000
DY   =   .000   MACH   =   .600

RUN NO. 301/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.146	2.474	.58572	10.34670	19.88150	.03398	.38532	.06709	.04287	.00768	.00001	-.00225
7.541	4.355	.58623	12.31920	19.89100	.03786	.45461	.08587	.04592	.00816	-.00044	-.00250
	GRADIENT	.00027	1.04919	.00505	.00206	.03686	.00999	.00162	.00025	-.00023	-.00013

RUN NO. 302/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.020	2.021	.58701	10.13010	19.84880	.04975	.38844	.06622	.04164	.00775	-.00007	-.00231
10.077	4.495	.58644	12.43730	19.90010	.02053	.46508	.08820	.04502	.00809	-.00063	-.00281
	GRADIENT	-.00023	.93258	.02074	-.01181	.03098	.00888	.00137	.00014	-.00022	-.00020

RUN NO. 303/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.887	2.172	.58581	10.26770	19.84270	.03141	.39315	.06773	.04013	.00753	-.00019	-.00223
14.608	4.441	.58686	12.34570	19.92050	.02009	.46825	.08864	.04401	.00817	-.00064	-.00288
	GRADIENT	.00046	.91607	.03430	-.00499	.03311	.00922	.00171	.00028	-.00020	-.00029

RUN NO. 304/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.123	1.934	.58823	10.05950	19.88270	.04308	.39523	.06822	.04006	.00733	-.00040	-.00239
29.781	4.549	.58519	12.46690	19.93250	.09516	.50428	.09737	.04328	.00916	-.00112	-.00214
	GRADIENT	-.00116	.92058	.01904	.01991	.04170	.01115	.00123	.00070	-.00027	-.00010

RUN NO. 305/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.889	2.080	.58767	10.16970	19.86300	.06580	.40972	.07095	.04092	.00715	-.00067	-.00238
44.724	4.413	.59708	12.35030	19.85900	.09727	.50479	.09819	.04343	.00897	-.00117	-.00225
	GRADIENT	-.00026	.93477	-.00171	.01349	.04076	.01168	.00108	.00078	-.00021	-.00006

RUN NO. 306/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.425	2.067	.58729	10.15600	19.92850	-.00602	.40878	.07119	.04105	.00747	-.00048	-.00236
50.408	4.416	.58775	12.37800	19.89900	.08025	.52319	.10167	.04340	.00912	-.00124	-.00216
	GRADIENT	.00020	.94608	-.01255	.03673	.04872	.01298	.00100	.00070	-.00032	-.00008

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (CNH031)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

STAB =	.000	BETA =	5.000
ELEVON =	.000	RUDDER =	.000
DX =	6.000	IORB =	20.000
MACH =	.600	DY =	.600

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.139	2.440	.58609	8.31512	19.87130	.05947	.28708	.05164	.03113	.00712	-.00015	-.00192
7.034	4.374	.58715	10.27020	19.98830	.09448	.34350	.06194	.03918	.00707	-.00006	-.00243
	GRADIENT	.00054	1.01066	.02947	.01809	.02916	.00532	.00416	-.00002	-.00011	-.00026

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.707	1.989	.58702	8.07854	19.90690	.06734	.28961	.05097	.02975	.00716	.00007	-.00202
9.890	4.549	.58632	10.45100	19.96030	.05123	.35390	.06390	.03910	.00713	.00010	-.00245
	GRADIENT	-.00027	.92663	.02086	-.00629	.02511	.00505	.00365	-.00001	-.00007	-.00017

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.857	1.961	.58709	8.08432	19.86250	.07407	.29248	.05155	.02932	.00709	.00006	-.00194
14.654	4.524	.58711	10.40250	19.96860	.01904	.35787	.06419	.03843	.00743	.00002	-.00267
	GRADIENT	.00001	.90449	.04140	-.02147	.02551	.00493	.00355	.00013	.00003	-.00028

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.665	1.982	.58708	8.07297	19.93210	.07184	.29951	.05319	.03059	.00727	-.00017	-.00226
29.802	4.262	.58717	10.17670	19.97520	.06091	.36914	.06586	.03958	.00652	-.00048	-.00225
	GRADIENT	.00004	.92264	.01890	-.00479	.03054	.00555	.00394	-.00033	-.00014	.00001

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.676	1.970	.58721	8.03821	19.92050	.09661	.30088	.05368	.03081	.00671	-.00024	-.00211
44.732	4.370	.58687	10.28960	19.89040	.06355	.38621	.06895	.04134	.00733	-.00046	-.00253
	GRADIENT	-.00014	.93786	-.01254	-.01378	.03556	.00636	.00439	.00026	-.00009	-.00017

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.207	2.003	.58699	8.08618	20.01850	.01577	.30402	.05432	.03109	.00647	-.00025	-.00218
50.098	4.371	.58709	10.27800	19.99160	.02241	.38617	.06921	.04137	.00691	-.00056	-.00245
	GRADIENT	.00009	.92546	-.01136	.00280	.03469	.00629	.00434	.00018	-.00013	-.00011

ARC 14-120(CA23B) 747/1 AT1 035) (ORBITER DATA)   (CNH032)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	10.000	MACH =	.600

RUN NO. 321/ 0

MACH .58661 .58746 .00044
ALPHAO 8.24764 10.25180 1.03284
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
3.217	2.384	-.07736	.28568	10.15720	.04784	.04600	.00677	-.00184	-.00421
3.310	4.324	-.08334	.34156	10.05880	.05765	.05663	.00695	-.00274	-.00691
GRADIENT		-.00308	.02880	-.05071	.00506	.00548	.00009	-.00046	-.00139

RUN NO. 322/ 0

MACH .58731 .58718 -.00005
ALPHAO 8.08363 10.31420 .93692
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
7.247	1.999	-.11409	.29165	10.15740	.04850	.04087	.00613	-.00132	-.00389
7.563	4.379	-.03860	.35310	10.16020	.05995	.05134	.00557	-.00210	-.00586
GRADIENT		.03171	.02581	.00118	.00481	.00440	-.00024	-.00033	-.00082

RUN NO. 323/ 0

MACH .58740 .58733 -.00003
ALPHAO 8.10072 10.27970 .91286
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
10.032	1.980	-.16247	.29022	10.08520	.04926	.03983	.00647	-.00113	-.00361
9.896	4.367	-.02661	.35042	10.13390	.06013	.05030	.00523	-.00225	-.00560
GRADIENT		.05691	.02522	.02040	.00455	.00439	-.00052	-.00047	-.00083

RUN NO. 324/ 0

MACH .58735 .58780 .00021
ALPHAO 8.18816 10.19140 .91066
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
15.217	2.049	-.19638	.29550	10.14070	.05037	.03911	.00642	-.00108	-.00362
15.047	4.248	-.07071	.35670	10.08630	.06120	.04911	.00549	-.00206	-.00526
GRADIENT		.05713	.02782	-.02473	.00492	.00454	-.00042	-.00044	-.00075

RUN NO. 325/ 0

MACH .58747 .58772 .00011
ALPHAO 8.07435 10.22550 .92552
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
29.998	1.976	-.18575	.29942	10.15200	.05230	.03635	.00679	-.00063	-.00302
29.890	4.301	-.12371	.37419	10.08960	.06587	.04723	.00638	-.00128	-.00407
GRADIENT		.02668	.03216	-.02683	.00584	.00468	-.00018	-.00028	-.00045

RUN NO. 326/ 0

MACH .58755 .58817 .00026
ALPHAO 8.02243 10.27170 .95039
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	DX	CL	DY	CD	CLM	CY	CYN	CBL
44.648	1.958	-.07292	.30031	10.12630	.05321	.03447	.00634	-.00068	-.00261
44.989	4.325	-.12245	.38565	10.14780	.06868	.04550	.00622	-.00112	-.00329
GRADIENT		-.02093	.03606	.00908	.00654	.00466	-.00005	-.00018	-.00029

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA   (CNH032)

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	10.000	MACH =	.600

RUN NO. 327/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	ALPHAC
49.978	8.02344	.58820	-.02053	10.13660	.30169	.05377	.03416	.00663	-.00060	-.00273	1.969
50.163	10.19110	.58920	-.04478	10.15950	.38846	.06896	.04503	.00631	-.00101	-.00306	4.264
GRADIENT	.94453	.00044	-.01056	.00998	.03781	.00662	.00474	-.00014	-.00018	-.00015	

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA   (CNH033)   (21 OCT 75)

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	10.000	MACH =	.600

RUN NO. 331/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	ALPHAC
7.500	10.34440	.58922	-.06667	10.07820	.39497	.06551	.05164	.00569	-.00180	-.00518	2.446
7.613	12.27760	.58876	-.14319	10.09130	.46999	.08568	.05690	.00540	-.00238	-.00741	4.292
GRADIENT	1.04761	-.00025	-.04147	.00710	.04065	.01093	.00285	-.00016	-.00032	-.00121	

RUN NO. 332/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	ALPHAC
10.263	10.03580	.58952	-.22873	10.09230	.38869	.06413	.04940	.00614	-.00147	-.00427	1.907
9.859	12.24310	.58910	-.09624	10.08730	.47119	.08655	.05540	.00577	-.00230	-.00652	4.322
GRADIENT	.91395	-.00017	.05486	-.00207	.03416	.00928	.00248	-.00015	-.00034	-.00093	

RUN NO. 333/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	ALPHAC
15.012	10.03310	.58891	-.19577	10.12510	.38793	.06455	.04784	.00675	-.00133	-.00412	1.933
14.957	12.27130	.58912	-.10228	10.09060	.47925	.08911	.05349	.00640	-.00224	-.00568	4.327
GRADIENT	.93488	.00009	.03905	-.01441	.03814	.01026	.00236	-.00015	-.00038	-.00065	

RUN NO. 334/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL	ALPHAC
29.834	10.02860	.58943	-.19612	10.04890	.39764	.06733	.04610	.00732	-.00092	-.00322	1.958
29.957	12.31310	.58888	-.15854	10.07440	.51001	.09724	.05047	.00757	-.00217	-.00339	4.362
GRADIENT	.95016	-.00023	.01563	.01061	.04674	.01244	.00182	.00010	-.00052	-.00007	

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (CNH033)   (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 335/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.819	1.871	.58683	9.93220	-.17406	10.09900	.39959	.06814	.04451	.00704	-.00111	-.00285
45.000	4.278	.58661	12.24790	-.20324	10.09270	.51609	.09902	.04840	.00844	-.00176	-.00316
GRADIENT		-.00009	.96232	-.01213	-.00262	.04841	.01283	.00162	.00058	-.00027	-.00013

RUN NO. 336/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.002	1.913	.58788	9.94862	-.10542	10.11940	.39899	.06824	.04386	.00730	-.00093	-.00275
50.443	4.260	.58739	12.23090	-.17171	10.08420	.51696	.09911	.04743	.00865	-.00153	-.00296
GRADIENT		-.00021	.97225	-.02824	-.01500	.05025	.01315	.00152	.00058	-.00026	-.00009

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (CNH034)   (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 341/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
1.515	-.031	.58648	5.90009	-.06742	.00578	.21432	.04057	.03953	.01030	-.00053	-.00184
1.466	2.266	.58717	8.09199	-.04621	.02682	.27220	.04671	.05106	.00987	-.00058	-.00187
1.364	4.259	.58774	10.13540	-.02054	-.00171	.32834	.05591	.06112	.00978	-.00070	-.00226
GRADIENT		-.00029	.98649	.01088	-.00147	.02655	.00378	.00503	-.00012	-.00004	-.00009

RUN NO. 342/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.218	-.127	.58815	6.04215	-.10713	-.00757	.22552	.04092	.03872	.00874	-.00050	-.00196
2.877	2.324	.58765	8.16733	-.14690	-.06245	.27436	.04690	.04957	.00940	-.00031	-.00209
3.380	4.353	.58723	10.29310	-.04005	-.00326	.33442	.05802	.05982	.00910	-.00057	-.00268
GRADIENT		-.00020	.94601	.01801	.00016	.02416	.00377	.00470	.00009	-.00001	-.00016

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (CNH034)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			
SCALE = .0125				

BETA = .000   STAB = 5.000
RUDDER = .000   ELEVON = .000
IORB = 6.000   DX = .000
DY = .000   MACH = .600

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.400	-.285	.58717	5.90381	-.13205	-.02328	.22384	.04106	.03297	.00905	-.00047	-.00227
7.390	2.312	.58697	8.21305	.07014	-.04725	.28297	.04809	.04467	.00862	-.00052	-.00229
7.046	4.212	.58774	10.11280	-.00640	-.04352	.33660	.05792	.05466	.00855	-.00062	-.00270
	GRADIENT	-.00012	.93327	.03090	-.00478	.02494	.00369	.00480	-.00011	-.00003	-.00009

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.858	-.243	.58774	5.93582	-.13020	-.02468	.22465	.04095	.03071	.00873	-.00043	-.00244
9.870	2.334	.58683	8.23296	.06279	-.03964	.28357	.04865	.04267	.00859	-.00052	-.00234
9.840	4.253	.58677	10.19170	-.05789	-.06921	.34570	.05941	.05312	.00845	-.00072	-.00284
	GRADIENT	-.00022	.94365	.01935	-.00968	.02670	.00404	.00497	-.00006	-.00006	-.00008

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.745	-.254	.58763	5.91142	-.11810	-.04966	.22241	.04154	.02715	.00858	-.00056	-.00239
14.663	2.332	.58572	8.21363	.06055	-.05815	.28671	.04917	.03965	.00860	-.00060	-.00246
14.715	4.248	.58738	10.17930	-.07864	-.07945	.35060	.06058	.05015	.00854	-.00062	-.00273
	GRADIENT	-.00007	.94469	.01218	-.00643	.02827	.00416	.00509	-.00001	-.00001	-.00007

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.743	-.267	.58604	5.88621	-.08203	-.00339	.22355	.04316	.02395	.00880	-.00056	-.00273
29.911	2.360	.58747	8.27416	-.02282	-.04821	.30197	.05229	.03866	.00378	-.00049	-.00261
29.627	4.268	.58710	10.18430	-.09565	-.10290	.37140	.06469	.04759	.00821	-.00102	-.00283
	GRADIENT	.00025	.94540	-.00039	-.02165	.03243	.00467	.00524	-.00012	-.00009	-.00002

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.607	-.235	.58716	5.90152	-.00966	-.05370	.22227	.04348	.02276	.00784	-.00080	-.00269
44.784	2.345	.58716	8.25624	-.13594	-.05628	.30628	.05372	.03694	.00807	-.00071	-.00263
44.631	4.291	.58767	10.22080	-.15327	.01683	.38674	.06765	.04643	.00782	-.00102	-.00245
	GRADIENT	.00011	.95215	-.03264	.01471	.03614	.00527	.00525	.00000	-.00004	.00005

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (CNH034)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   =   STAB   = 5.000
RUDDER =   ELEVON = .000
IORB   =   DX   = 6.000
DY   =   MACH   = .600

RUN NO. 348/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
49.960	-.239	.58785	5.88468	.08819	.21847	.04386	.01479	.02213	.00780	-.00065	-.00233
50.084	2.361	.58817	8.25858	.16437	.30921	.05396	-.02815	.03673	.00797	-.00060	-.00259
50.051	4.269	.58761	10.19200	.16269	.38849	.06820	-.05749	.04610	.00830	-.00086	-.00268
GRADIENT		-.00004	.95296	-.05808	.03755	.00531	-.01606	.00533	.00011	-.00004	-.00008

RUN NO. 349/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
61.655	-.279	.58759	5.85348	.11708	.21722	.04405	-.13288	.02170	.00777	-.00056	-.00225
61.629	2.289	.58818	8.18336	-.10256	.31168	.05439	.00830	.03605	.00778	-.00070	-.00248
61.640	4.275	.58756	10.20200	.16063	.39577	.06965	-.09148	.04490	.00776	-.00083	-.00214
GRADIENT		.00000	.95272	.05384	.03909	.00555	.01129	.00512	-.00000	-.00006	.00002

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (CNH035)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   =   STAB   = 5.000
RUDDER =   ELEVON = .000
IORB   =   DX   = 4.000
DY   =   MACH   = .600

RUN NO. 351/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
3.392	.007	.58697	3.99746	-.07524	.11446	.03597	.05360	.02793	.00754	-.00010	-.00204
3.273	2.270	.58780	6.14693	-.03598	.17421	.03882	.12459	.03472	.00704	-.00012	-.00193
3.233	4.244	.58795	8.16058	-.04991	.23506	.04474	.01675	.04348	.00675	-.00016	-.00197
GRADIENT		.00023	.98179	.00625	.02841	.00205	-.00773	.00365	-.00019	-.00001	.00002

RUN NO. 352/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	CL	CD	DY	CLM	CY	CYN	CBL
7.633	-.212	.58702	4.00651	-.18854	.12359	.03675	.04314	.02283	.00755	-.00003	-.00217
7.582	2.387	.58736	6.30510	.08734	.18594	.03971	.06432	.03020	.00691	-.00001	-.00201
7.362	4.282	.58712	8.22000	-.23484	.24321	.04604	.07605	.03886	.00617	-.00024	-.00207
GRADIENT		.00003	.93448	.03651	.02646	.00201	.00737	.00352	.00030	-.00004	.00002

ARC 14-120(CA23D) 747/1 AT1 O3S1 (ORBITER DATA)   (CNH035)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 353/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.664	-.213	.58769	3.95156	-.11309	.11144	.12407	.03675	.02065	.00723	.00004	-.00212
9.916	2.313	.58803	6.21534	.11618	.06173	.19182	.04006	.02823	.00690	.00010	-.00215
9.803	4.259	.58849	8.18827	-.02549	.09580	.25062	.04658	.03780	.00648	-.00009	-.00222
	GRADIENT	.00018	.94488	.02304	-.0042E	.02823	.00215	.00379	-.00017	-.00003	-.00002

RUN NO. 354/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.113	-.270	.58842	3.94923	-.18325	.04406	.12746	.03750	.01758	.00728	-.00002	-.00239
14.808	2.324	.58832	6.21535	-.05927	.08345	.19579	.04118	.02599	.00653	-.00026	-.00231
14.693	4.304	.58828	8.22508	-.07338	.00995	.25789	.04797	.03594	.00643	-.00009	-.00214
	GRADIENT	-.00003	.93174	.02522	-.00631	.02841	.00225	.00397	-.00019	-.00002	-.00005

RUN NO. 355/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.891	-.272	.58946	3.91348	-.06585	.08920	.12538	.03875	.01416	.00668	-.00016	-.00236
29.979	2.346	.58900	6.26241	-.11845	.05612	.20908	.04387	.02378	.00645	-.00013	-.00230
29.891	4.294	.58907	8.23413	-.17999	.07042	.27759	.05163	.03522	.00587	-.00037	-.00226
	GRADIENT	-.00009	.94363	.02473	-.00459	.03326	.00277	.00456	-.00017	-.00004	-.00002

RUN NO. 356/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.449	-.271	.58792	3.85960	.06793	.09655	.12679	.03949	.01315	.00609	-.00037	-.00226
44.799	2.322	.58850	6.23703	-.14780	.04817	.21326	.04542	.02258	.00543	-.00044	-.00230
44.865	4.260	.58890	8.20431	-.19731	.00498	.28953	.05371	.03397	.00548	-.00058	-.00246
	GRADIENT	.00022	.95651	-.05989	-.02012	.03577	.00309	.00454	-.00014	-.00004	-.00004

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (CNH036)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = .000
SCALE = .0125		DY = .600
		STAB = .000
		ELEVON = 10.000
		DX = 6.000
		MACH = .000

RUN NO. 361/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00   DZ 1.654 / 2.469

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.302	.58711	8.14589	-.03572	.27620	.04845	.04960	.00937	-.00065	-.00223
4.194	.58755	10.19950	-.16900	.33466	.05925	.05892	.00906	-.00060	-.00269
GRADIENT	-.00023	1.08483	-.06991	.03090	.00571	.00493	-.00016	.00003	-.00024

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00   DZ 2.877 / 3.365

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.012	.58735	8.04539	-.10843	.27902	.04654	.04786	.00873	-.00055	-.00221
4.405	.58653	10.31600	-.07058	.34033	.05014	.05813	.00924	-.00044	-.00263
GRADIENT	-.00034	.94906	.01582	.02563	.00485	.00430	.00022	.00004	-.00018

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00   DZ 7.393 / 7.226

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.013	.58735	8.11744	-.10956	.29090	.04963	.04322	.00927	-.00020	-.00247
4.376	.58622	10.25970	.01898	.34881	.06111	.05316	.00915	-.00047	-.00294
GRADIENT	-.00048	.91080	.05440	.02451	.00486	.00421	-.00005	-.00011	-.00020

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00   DZ 9.858 / 10.104

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.049	.58585	8.14182	-.11920	.29125	.05015	.04064	.00932	-.00007	-.00241
4.457	.58629	10.39920	-.04720	.35762	.06287	.05139	.00854	-.00057	-.00279
GRADIENT	.00018	.93734	.02990	.02756	.00528	.00447	-.00032	-.00021	-.00016

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00   DZ 14.553 / 14.643

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.097	.58585	8.15599	-.09596	.29493	.05119	.03858	.00915	-.00021	-.00238
4.474	.58527	10.45750	-.02118	.36470	.06411	.04933	.00877	-.00053	-.00288
GRADIENT	-.00025	.93034	.03146	.02935	.00544	.00452	-.00016	-.00014	-.00021

RUN NO. 366/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00   DZ 29.819 / 29.992

ALPHAC	MACH	ALPHAO	DX	CL	CD	CLM	CY	CYN	CBL
2.159	.58550	8.24139	-.17520	.31089	.05390	.03685	.00854	-.00041	-.00264
4.411	.58504	10.35100	-.14877	.38518	.06853	.04638	.00884	-.00063	-.00300
GRADIENT	-.00020	.93709	.01174	.03344	.00650	.00423	.00014	-.00010	-.00016

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (CNH036)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = 5.00   STAB = .000   CBL = 5.000
RUDDER =   ELEVON = 10.000   = .000
IORB =   DX = 6.000   = .000
DY =   MACH = .000   = .600

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	45.057	2.052	.58538	8.16577	-.12614	.16956	.30926	.05542	.03415	.00843	-.00043	-.00250
	44.937	4.371	.58637	10.31880	-.09769	.15247	.39619	.07086	.04493	.00887	-.00064	-.00272
GRADIENT			.00043	.92837	.01227	-.00737	.03749	.00666	.00465	.00019	-.00009	-.00009

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	50.129	2.015	.58474	8.08551	-.04310	.16630	.30470	.05523	.03278	.00836	-.00028	-.00237
	50.420	4.439	.58435	10.37690	-.11005	.15838	.40637	.07266	.04452	.00860	-.00090	-.00270
GRADIENT			-.00016	.94516	-.02761	-.00327	.04194	.00719	.00484	.00010	-.00025	-.00013

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	62.057	2.140	.58502	8.24539	-.02430	.13774	.32048	.05677	.03427	.00811	-.00026	-.00253
	61.853	4.416	.58414	10.35040	-.04193	.12725	.40517	.07308	.04310	.00858	-.00062	-.00262
GRADIENT			-.00039	.92457	-.00774	-.00461	.03720	.00716	.00388	.00021	-.00016	-.00004

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (CNH037)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = 5.00   STAB = .000   CBL = -1.000
RUDDER =   ELEVON = 6.000   = .000
IORB =   DX = 6.000   = .000
DY =   MACH = .000   = .600

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
	1.955	.521	.58987	5.33729	-.10766	.09365	.22703	.04173	.04124	.00794	-.00023	-.00185
	1.879	2.297	.59007	8.24052	-.10093	.06646	.27758	.04797	.05128	.00762	-.00047	-.00214
	1.932	4.335	.59089	10.27080	-.12705	.05405	.33353	.05826	.06093	.00826	-.00054	-.00229
GRADIENT			.00027	1.03052	-.00527	-.01028	.02791	.00435	.00515	.00009	-.00008	-.00011

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (CNH037)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 372 / 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.611	-.073	.59019	6.14149	-.14594	.16043	.22934	.04190	.03841	.00940	.00015	-.00208
3.412	2.415	.59040	8.31124	.11055	.13546	.27806	.04811	.04954	.00844	.00028	-.00215
3.341	4.372	.59036	10.30810	.00163	.12886	.33584	.05856	.05926	.00881	.00025	-.00240
	GRADIENT	-.00004	.93441	.03630	-.00723	.02376	.00369	.00468	-.00014	.00009	.00007

RUN NO. 373 / 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.238	-.184	.58959	5.97655	-.08660	.09567	.22502	.04143	.03204	.00884	-.00011	-.00226
7.611	2.515	.58950	8.43460	.05996	.12690	.28920	.04933	.04527	.00893	-.00008	-.00246
7.497	4.363	.58887	10.32400	-.04563	.04585	.34817	.06017	.05482	.00803	.00056	-.00289
	GRADIENT	-.00015	.95292	.01233	-.00931	.02685	.00403	.00500	-.00016	-.00009	-.00013

RUN NO. 374 / 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.003	-.096	.58840	6.09035	-.12387	.09762	.23080	.04199	.03035	.00867	-.00020	-.00222
9.942	2.401	.58937	8.31062	.06698	.12280	.28432	.04898	.04239	.00781	-.00024	-.00232
10.030	4.474	.58833	10.42890	-.06324	.09804	.35570	.06166	.05323	.00816	-.00050	-.00290
	GRADIENT	.00001	.94747	.01539	-.00043	.02714	.00425	.00500	-.00012	-.00006	-.00015

RUN NO. 375 / 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.990	-.035	.58910	6.22162	-.14126	.13141	.23588	.04289	.02813	.00855	-.00012	-.00232
14.729	2.374	.58974	8.27672	.05569	.06667	.28601	.04977	.03923	.00843	-.00024	-.00246
14.795	4.458	.58944	10.39350	-.06647	.08480	.35913	.06260	.05029	.00759	-.00077	-.00274
	GRADIENT	-.00014	.94208	.01827	-.01089	.02774	.00443	.00501	.00021	-.00014	-.00009

RUN NO. 376 / 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.795	-.037	.58885	6.11690	-.12939	.12231	.23327	.04415	.02418	.00813	-.00023	-.00247
29.929	2.359	.58821	8.28595	-.02203	.11292	.29883	.05265	.03693	.00810	-.00027	-.00247
30.138	4.506	.58919	10.47950	-.18963	.08067	.38686	.06831	.04836	.00815	-.00066	-.00257
	GRADIENT	.00007	.95931	-.01215	-.00906	.03369	.00529	.00532	.00001	-.00009	-.00002

ARC 14-120(CA23B)   747/1 ATI O3S1 (ORBITER DATA)   (CNH037)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STA? = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 377/ 0   MACH .58823 .58995 .58874 .00016(GRADIENT)   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.027	-.096	6.08589	-.04783	.07474	.22242	.04476	.02145	.00787	-.00041	-.00255
44.952	2.497	8.42205	-.25301	.08694	.31475	.05521	.03737	.00811	-.00039	-.00261
44.914	4.260	10.22770	-.09599	.12210	.39070	.06887	.04535	.00803	-.00078	-.00256
GRADIENT		.94708	-.01614	.01041	.03840	.00542	.00554	.00004	-.00008	-.00000

RUN NO. 378/ 0   MACH .58791 .58759 .58783 -.00002(GRADIENT)   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.481	.036	6.20814	-.01251	.05409	.23819	.04564	.02270	.00758	-.00037	-.00244
50.592	2.316	8.27754	-.24803	.13582	.30917	.05496	.03533	.00776	-.00042	-.00235
50.369	4.524	10.47610	-.19505	.10327	.40389	.07197	.04578	.00745	-.00101	-.00236
GRADIENT		.95062	-.04101	.01109	.03688	.00586	.00514	-.00003	-.00014	-.00002

RUN NO. 379/ 0   MACH .58735 .58707 .58790 -.00012(GRADIENT)   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
61.632	-.013	6.10612	.14628	.12051	.23286	.04580	.02153	.00734	-.00059	-.00241
61.965	2.379	8.32028	-.22930	.09946	.31321	.05588	.03454	.00730	-.00052	-.00247
61.651	4.408	10.33570	-.20140	.09337	.40256	.07175	.04442	.00731	-.00086	-.00239
GRADIENT		.95573	-.08096	-.00622	.03824	.00582	.00519	-.00001	-.00006	-.00000

ARC 14-120(CA23B)   747/1 ATI O3S1 (ORBITER DATA)   (CNH038)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 381/ 0   MACH .58938 .58924 .58902 -.00008(GRADIENT)   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
1.603	.046	5.98392	-.16713	.08333	.31166	.05265	-.00114	.00478	.00083	-.00087
1.569	2.293	8.13110	.04218	.10096	.37096	.06214	.00948	.00478	.00070	-.00098
2.306	4.387	10.37170	-.12686	.08546	.43733	.07787	.01799	.00452	.00068	-.00151
GRADIENT		1.01018	.01030	.00058	.02892	.00579	.00441	-.00006	-.00004	-.00015

ARC 14-120(CA23B)   747/1 ATI O3S1 (ORBITER DATA)   (CNH03B)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.000

RUN NO. 382/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.468	.019	.58937	6.20728	-.19716	.10115	.32795	.05241	-.00189	.00470	.00100	-.00094
3.699	2.422	.58831	8.36194	-.01894	.08953	.37921	.06271	.00720	.00473	.00101	-.00112
3.469	4.425	.58815	10.37440	-.08950	.05348	.44108	.07812	.01573	.00478	.00098	-.00152
	GRADIENT	-.00028	.94428	.02607	-.01062	.02554	.00579	.00399	.00002	-.00000	-.00013

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.736	-.027	.58823	6.18939	-.22961	.06087	.33115	.05315	-.00849	.00424	.00107	-.00112
6.902	2.422	.58845	8.27053	.07916	.08816	.38272	.06297	.00202	.00446	.00122	-.00137
7.339	4.419	.58629	10.35840	-.08920	.09323	.45524	.07976	.01009	.00415	.00107	-.00184
	GRADIENT	-.00042	.93444	.03510	.00742	.02766	.00591	.00418	-.00001	.00000	.00016

RUN NO. 384/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.309	.047	.58749	6.26151	-.23948	.08783	.33349	.05408	-.01114	.00429	.00122	-.00123
9.703	2.409	.58687	8.30010	.02282	.05753	.38797	.06426	-.00068	.00434	.00126	-.00146
10.031	4.489	.58640	10.44550	-.12841	.04705	.45945	.08115	.00774	.00399	.00113	-.00174
	GRADIENT	-.00025	.94000	.02694	-.00926	.02823	.00605	.00425	-.00007	-.00002	-.00011

RUN NO. 385/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.037	-.141	.58573	6.06450	-.12720	.01465	.32158	.05365	-.01488	.00460	.00122	-.00132
14.866	2.495	.58615	8.39330	.08175	.07175	.39532	.06578	-.00247	.00436	.00130	-.00156
14.876	4.418	.58601	10.36830	-.05165	.07290	.46563	.08237	.00570	.00418	.00128	-.00174
	GRADIENT	.00007	.94052	.02032	.01331	.03138	.00620	.00453	-.00009	.00001	-.00009

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.004	-.165	.58674	6.01263	-.11334	.09307	.32803	.05482	-.01662	.00426	.00115	-.00144
29.816	2.497	.58734	8.40355	.03463	.06951	.40780	.06858	.00464	.00382	.00113	-.00152
30.280	4.402	.58719	10.40330	-.16387	.04147	.48254	.08693	.00295	.00404	.00122	-.00174
	GRADIENT	.00011	.95746	-.00681	-.01114	.03359	.00691	.00430	-.00006	.00001	-.00006

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (CNH038) (21 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO. 387/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.879	.070	.58666	6.21183	-.10694	.06776	.33181	.05680	-.01682	.00410	.00111	-.00138
44.946	2.481	.58661	8.42103	-.06122	.08432	.41042	.07035	-.00588	.00410	.00123	-.00158
44.926	4.448	.58586	10.41200	-.21870	.01982	.49727	.08958	.00149	.00329	.00092	-.00170
	GRADIENT	-.00018	.95780	-.02388	-.01029	.03760	.00742	.00420	-.00018	-.00004	-.00007

RUN NO. 388/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
49.971	-.037	.58490	6.07965	.11060	.11843	.32644	.05625	-.01774	.00365	.00084	-.00157
50.192	2.513	.58441	8.42727	-.18012	.08470	.41671	.07082	-.00607	.00377	.00108	-.00164
50.609	4.284	.58442	10.28530	-.17500	.09634	.49599	.08929	.00060	.00395	.00109	-.00170
	GRADIENT	-.00012	.96964	-.06945	-.00568	.03897	.00751	.00427	.00007	.00006	-.00003

RUN NO. 389/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
61.515	-.115	.58473	5.98804	.12903	.11916	.31440	.05623	-.01948	.00415	.00106	-.00155
60.520	2.529	.58435	8.29901	-.09098	.07553	.41051	.07023	-.00750	.00373	.00115	-.00161
	GRADIENT	-.00014	.87406	-.08321	-.01650	.03635	.00530	.00453	-.00016	.00003	-.00002

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (CNH039) (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = 10.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO. 391/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.148	2.388	.59047	8.22485	-.06687	.05722	.36247	.08054	.02639	.00491	.00116	-.00074
3.390	4.263	.59098	10.21090	-.04503	-.00654	.42507	.09540	.03359	.00384	.00075	-.00111
	GRADIENT	.00027	1.05936	.01165	-.03401	.03339	.00793	.00384	-.00057	-.00022	-.00019

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH039)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = 5.000
1ORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.139	7.312	.58972	8.21903	-.14187	.10762	.37260	.08188	.02330	.00500	.00124	-.00095
4.461	7.376	.58997	10.38090	-.04368	.05150	.44364	.09876	.03152	.00522	.00084	-.00164
GRADIENT		.00011	.93122	.04230	-.02417	.03060	.00724	.00354	.00009	-.00017	-.00029

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.001	9.885	.59034	8.09911	-.16160	.06343	.37205	.08175	.02198	.00459	.00116	-.00102
4.424	10.083	.59082	10.36610	-.07507	.05245	.43796	.09876	.02962	.00452	.00084	-.00137
GRADIENT		.00020	.93579	.03572	-.00453	.02721	.00702	.00315	-.00003	.00013	-.00015

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.141	15.083	.59086	8.24803	-.19875	.05544	.37881	.08371	.02112	.00422	.00111	-.00102
4.433	14.830	.59122	10.35730	-.08338	.06210	.44568	.10027	.02874	.00451	.00085	-.00146
GRADIENT		.00016	.92040	.05034	.00290	.02918	.00723	.00332	.00013	-.00011	-.00019

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.045	29.781	.59014	8.11938	-.12810	.09299	.38078	.08524	.01843	.00378	.00101	-.00121
4.494	29.790	.59148	10.41400	-.07450	.08848	.47572	.10606	.02715	.00402	.00068	-.00158
GRADIENT		.00055	.93683	.02188	-.00184	.03876	.00850	.00356	.00010	-.00013	-.00015

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.160	44.565	.58975	8.20736	-.08759	.08082	.39120	.08750	.01751	.00369	.00094	-.00134
4.367	44.873	.59139	10.31290	-.11783	.05913	.47703	.10699	.02419	.00435	.00072	-.00162
GRADIENT		.00074	.95382	-.01370	-.00983	.03888	.00883	.00302	.00030	-.00010	-.00013

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.123	50.286	.59078	8.20360	-.01339	.05846	.39125	.08776	.01682	.00345	.00094	-.00142
4.396	50.569	.59084	10.36870	-.06019	.05556	.48273	.10839	.02338	.00363	.00061	-.00142
GRADIENT		.00003	.95258	-.02059	-.00128	.04025	.00908	.00289	.00008	-.00014	-.00009

REFERENCE DATA

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　　　(CNH040)　(08 OCT 75)

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

BETA =	
RUDDER =	
1ORB =	
DY =	

PARAMETRIC DATA

STAB =	.000	5.000
ELEVON =	.000	5.000
DX =	4.000	.000
MACH =	.000	.600

RUN NO. 401/ 0　　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHAO	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58575	-.004	3.94885	3.048	-.03013	.02300	.19222	.06234	.01055	.00391	.00135	-.00058
.58650	2.318	6.16485	3.021	-.00823	.03102	.25564	.06763	.01730	.00403	.00120	-.00060
.58596	4.401	8.32227	3.274	-.08030	.03823	.31652	.07662	.02529	.00434	.00119	-.00067
.00005	GRADIENT	.99210		-.01099	.00345	.02820	.00322	.00334	.00010	-.00004	-.00002

RUN NO. 402/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHAO	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58578	-.091	4.06526	7.066	-.06533	.03074	.20452	.06362	.00754	.00381	.00122	-.00088
.58717	2.490	6.35184	7.198	-.05879	.03128	.26376	.06944	.01423	.00365	.00116	-.00072
.58721	4.405	8.33848	7.335	-.06649	.00535	.32169	.07766	.02245	.00372	.00110	-.00072
.00033	GRADIENT	.94695		-.00010	-.00532	.02588	.00308	.00327	-.00002	-.00003	.00004

RUN NO. 403/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHAO	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58614	-.024	4.20285	9.793	-.10758	.02801	.21029	.06432	.00651	.00446	.00137	-.00093
.58677	2.449	6.34048	9.766	-.05513	.03665	.26860	.07001	.01356	.00399	.00125	-.00082
.58746	4.293	8.21470	9.745	-.10482	.00220	.32267	.07789	.02110	.00385	.00112	-.00087
.00031	GRADIENT	.93678		.00172	-.00556	.02621	.00314	.00339	-.00015	-.00006	.00001

RUN NO. 404/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHAO	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58614	-.155	4.02957	14.781	-.08900	.00993	.20015	.06452	.00358	.00345	.00124	-.00113
.58672	2.568	6.43765	14.685	-.05953	-.02169	.27665	.07135	.01272	.00345	.00111	-.00080
.58737	4.303	8.22819	14.592	-.04039	-.03747	.33145	.07943	.02040	.00313	.00101	-.00078
.00027	GRADIENT	.93666		.01090	-.01073	.02933	.00327	.00373	-.00006	-.00005	.00008

RUN NO. 405/ 0　　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHAO	DZ	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58585	-.120	4.05111	29.804	-.13448	.00963	.20108	.06614	.00120	.00321	.00118	-.00135
.58784	2.563	6.47107	29.944	.04528	.04981	.28989	.07428	.01096	.00370	.00116	-.00112
.58681	4.329	8.27311	29.835	-.13744	-.04093	.34801	.08344	.01819	.00257	.00098	-.00091
.00026	GRADIENT	.94525		.00487	-.00921	.03304	.00382	.00380	-.00012	-.00004	.00010

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH040) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

STAB = .000	BETA = 5.000		
ELEVON = .000	RUDDER = 5.000		
DX = 4.000	IORB = .000		
MACH = .000	DY = .600		

RUN NO. 406/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.515	-.091	.58600	4.04059	.03455	.03143	.20113	.06711	.00023	.00297	.00117	-.00123
44.728	2.446	.58754	6.34838	-.15179	.02644	.28973	.07549	.00905	.00306	.00106	-.00103
44.671	4.476	.58637	8.39585	-.16764	-.03328	.37129	.08681	.01819	.00294	.00098	-.00108
GRADIENT		.00010	.95184	-.04547	-.01367	.03716	.00427	.00391	-.00001	-.00004	-.00003

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (CNH041) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

STAB = .000	BETA = 5.000		
ELEVON = .000	RUDDER = 5.000		
DX = 4.000	IORB = .000		
MACH = .000	DY = .500		

RUN NO. 411/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.328	2.137	.48953	6.15134	-.08804	-.17940	.24904	.06741	.01613	.00399	.00121	-.00052
3.325	4.298	.48981	8.23496	-.05681	-.16385	.30889	.07573	.02348	.00374	.00106	-.00052
GRADIENT		.00013	.96420	.01445	.00720	.02770	.00385	.00340	-.00012	-.00007	-.00000

RUN NO. 412/ 0   RN/L = 2.96   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.838	2.085	.48940	6.09329	-.09292	-.16145	.25617	.06852	.01371	.00363	.00108	-.00085
7.184	4.439	.48557	8.36195	-.05746	-.16305	.31771	.07770	.02117	.00358	.00102	-.00063
GRADIENT		.00007	.96379	.01507	-.00068	.02615	.00390	.00317	-.00002	.00002	.00009

RUN NO. 413/ 0   RN/L = 2.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.770	2.218	.48931	6.27786	-.14676	-.13853	.26222	.06960	.01260	.00261	.00099	-.00057
9.780	4.469	.48962	8.40798	-.05126	-.15367	.32312	.07875	.02039	.00341	.00102	-.00069
GRADIENT		.00013	.94601	.04241	-.00672	.02704	.00406	.00346	.00036	.00001	-.00005

ARC 14-120(CA23B)   747/1 ATI O2S1   (ORBITER DATA)   (CNH041)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY = .000	MACH = .500

RUN NO. 414/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.789	6.05709	.48945	1.986	-.15807	-.11379	.26298	.07001	.01070	.00359	.00104	-.00101
14.819	8.37959	.48934	4.441	-.06484	-.09466	.33277	.08023	.01950	.00354	.00096	-.00093
GRADIENT	.94620	-.00005		.03798	.00779	.02844	.00416	.00359	-.00002	-.00003	.00003

RUN NO. 415/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.638	6.25657	.48943	2.215	-.07823	-.13076	.28104	.07336	.00971	.00339	.00101	-.00105
29.826	8.35752	.49048	4.415	-.04136	-.13496	.35226	.08339	.01848	.00337	.00097	-.00102
GRADIENT	.95503	-.00048		.01676	-.00191	.03237	.00456	.00399	.00001	-.00002	.00001

RUN NO. 416/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.438	6.22878	.49039	2.214	-.07656	-.11385	.28802	.07453	.00874	.00265	.00092	-.00103
44.694	8.27081	.48927	4.330	-.09178	-.16629	.36453	.08539	.01705	.00310	.00091	-.00089
GRADIENT	.96531	-.00053		-.00719	-.02479	.03617	.00513	.00393	.00021	-.00000	.00007

ARC 14-120(CA23B)   747/1 ATI O2S1   (ORBITER DATA)   (CNH042)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY = .000	MACH = .300

RUN NO. 421/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.128	6.15824	.29686	2.209	-.00134	-.00631	.25205	.06927	.01660	.00328	.00072	-.00043
3.123	8.14827	.29674	4.221	.01001	-.02654	.31146	.07798	.02362	.00309	.00066	-.00048
GRADIENT	.98892	-.00006		.00564	-.01006	.02952	.00433	.00349	-.00009	-.00003	-.00003

RUN NO. 422/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.085	6.28847	.29723	2.291	-.07398	-.04136	.26796	.07109	.01468	.00224	.00055	-.00040
7.303	8.32691	.29615	4.347	-.07285	-.01484	.32793	.08041	.02120	.00285	.00077	-.00040
GRADIENT	.99140	-.00053		.00055	.01290	.02917	.00453	.00317	.00029	.00010	-.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (CNH042)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 4.000	DX = .000	
DY = .000	MACH = .300	

RUN NO. 423/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
9.285	2.180	.29680	6.13881	-.01604	-.02059	.26123	.07080	.01300	.00085	.00037	-.00075
9.970	4.347	.29657	8.34801	-.10366	-.04935	.33184	.08153	.02035	.00155	.00044	-.00040
	GRADIENT	-.00010	1.01948	-.04044	-.01327	.03258	.00495	.00339	.00032	.00003	.00016

RUN NO. 424/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
14.488	2.266	.29699	6.25676	-.06213	-.02430	.27183	.07285	.01183	.00222	.00055	-.00057
14.575	4.354	.29707	8.31217	-.04284	-.03813	.34189	.08258	.01958	.00238	.00053	-.00084
	GRADIENT	-.00004	.98457	.00924	-.00662	.03356	.00466	.00371	.00008	.00001	-.00013

RUN NO. 425/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
29.804	2.191	.29669	6.21467	-.11139	-.03212	.28162	.07523	.01001	.00246	.00052	-.00095
29.724	4.292	.29648	8.26295	-.07168	-.04141	.35957	.06573	.01829	.00186	.00042	-.00081
	GRADIENT	-.00010	.97492	.01890	-.00442	.03711	.00500	.00394	-.00028	-.00005	.00007

RUN NO. 426/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
44.766	2.202	.29674	6.22064	-.08944	-.11793	.28835	.07647	.00910	.00189	.00051	-.00071
44.688	4.266	.29673	8.24369	-.05498	-.10352	.36586	.08679	.01658	.00104	.00038	-.00048
	GRADIENT	-.00000	.98014	.01670	.00698	.03755	.00500	.00363	-.00041	-.00006	.00011

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ARC 14-120(CA23B) 02S1

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

(CNH043) (09 OCT 75)

PARAMETRIC DATA

BETA = .000 ELEVON = 5.000

RUN NO. 431/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL
2.284	4.518	.59425	.24162	.07023	.00017	.00154	.00091	-.00167
2.235	6.328	.59503	.33066	.07845	.00604	.00164	.00087	-.00166
1.862	8.269	.59509	.42465	.09145	.01312	.00171	.00078	-.00166
2.534	10.303	.59415	.53958	.11588	.01634	.00260	.00067	-.00189
2.332	12.406	.59442	.65671	.15794	.01792	.00292	.00020	-.00115
2.211	14.397	.59365	.75391	.21248	.02112	.00267	.00022	-.00270
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 432/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL
17.824	-.729	.59205	-.01077	.06239	-.01801	.00253	.00110	-.00161
20.582	4.597	.59217	.24231	.07051	-.00030	.00218	.00112	-.00137
20.432	6.440	.59209	.33123	.07907	.00568	.00245	.00107	-.00140
20.388	8.441	.59311	.43222	.09298	.01329	.00256	.00088	-.00156
20.672	10.411	.59177	.54431	.11739	.01615	.00249	.00063	-.00184
20.407	12.376	.59195	.65892	.15713	.01805	.00371	.00046	-.00119
20.474	14.347	.59171	.75186	.21092	.02111	.00256	.00028	-.00251
	GRADIENT	-.00002	.04752	.00153	.00333	-.00007	.00000	.00005

RUN NO. 433/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL
37.645	-.608	.58927	-.00791	.06242	-.01823	.00233	.00110	-.00139
40.709	4.480	.58917	.23122	.07016	-.00111	.00206	.00112	-.00120
40.387	6.499	.58939	.32986	.07943	.00540	.00201	.00104	-.00124
40.324	8.438	.58979	.42386	.09289	.01263	.00182	.00084	-.00139
40.452	10.448	.58959	.53990	.11703	.01604	.00199	.00063	-.00144
40.577	12.427	.58736	.65484	.15594	.01815	.00264	.00046	-.00089
40.395	14.433	.58674	.74957	.21125	.02058	.00256	.00025	-.00245
	GRADIENT	-.00002	.04700	.00152	.00337	-.00005	.00000	.00004

ARC 14-120(CA23B) 03S1   (CNH044)   (09 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

```
SREF  = 2690.0000 SQ.FT.    XMRP = 1109.0000 IN. XO
LREF  =  474.8100 IN.       YMRP =     .0000 IN. YO
BREF  =  936.6800 IN.       ZMRP =  375.0000 IN. ZO
SCALE =     .0125
```

BETA = -5.00/ 5.00   ELEVON = 5.000   .000

RUN NO. 441/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	MACH	CL	CD	CLM	CY	CYN	CBL
6.381	60.484	.59485	.33887	.05984	-.01955	.00245	.00106	-.00120
8.325	60.085	.59469	.43070	.07332	-.01087	.00192	.00098	-.00155
10.419	60.673	.59356	.55181	.09788	-.00571	.00132	.00103	-.00142
12.411	60.708	.59481	.66763	.13666	-.00462	.00259	.00093	-.00082
14.003	57.099	.59270	.74137	.17870	-.00250	.00132	.00115	-.00162
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 03S1   (CNH045)   (09 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

```
SREF  = 2690.0000 SQ.FT.    XMRP = 1109.0000 IN. XO
LREF  =  474.8100 IN.       YMRP =     .0000 IN. YO
BREF  =  936.6800 IN.       ZMRP =  375.0000 IN. ZO
SCALE =     .0125
```

BETA = -5.00/ 5.00   ELEVON = .000

RUN NO. 451/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	MACH	CL	CD	CLM	CY	CYN	CBL
4.557	2.231	.59437	.16397	.04124	.01406	.00530	-.00048	-.00251
6.357	2.483	.59364	.25547	.04733	.02102	.00535	-.00043	-.00253
8.320	2.239	.59253	.34308	.05761	.03255	.00552	-.00046	-.00231
10.373	1.921	.59341	.45153	.07643	.03942	.00544	-.00106	-.00284
12.477	2.551	.59345	.57837	.11649	.03669	.00588	-.00091	-.00258
14.400	2.114	.59228	.67445	.16243	.03688	.00528	-.00070	-.00242
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 452/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	MACH	CL	CD	CLM	CY	CYN	CBL
-.792	17.573	.59296	-.08501	.03744	-.00963	.00655	-.00062	-.00239
4.401	20.373	.59380	.15840	.04089	.01308	.00648	-.00030	-.00254
6.464	20.172	.59514	.26188	.04820	.02120	.00620	-.00010	-.00213
8.466	20.312	.59521	.35598	.05877	.03393	.00555	-.00058	-.00234
10.508	20.516	.59488	.46175	.07880	.03847	.00619	-.00075	-.00279
12.332	20.115	.59398	.57464	.11421	.03651	.00605	-.00080	-.00223
GRADIENT		.00016	.04707	.00066	.00437	-.00001	.00006	-.00003

ARC 14-120(CA23B)   03S1   (CNH045)   (09 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

BETA   =   .000   ELEVON =   .000

RUN NO. 453/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL
37.990	-.738	.59769	-.08823	.03733	-.01019	.00754	-.00042	-.00242
40.220	4.411	.59951	.15284	.04108	.01277	.00631	-.00038	-.00243
39.923	6.397	.59907	.25326	.04606	.02021	.00615	-.00033	-.00210
40.358	8.474	.60003	.34645	.05893	.03218	.00600	-.00048	-.00206
40.425	10.464	.59917	.45227	.07779	.03302	.00617	-.00082	-.00267
40.404	12.438	.59793	.57301	.11601	.03546	.00582	-.00132	-.00247
40.396	14.487	.59904	.67378	.16462	.03643	.00534	-.00083	-.00213
GRADIENT		.00035	.04681	.00073	.00446	-.00024	.00001	-.00000

ARC 14-120(CA23B)   02S1   (CNH046)   (09 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

BETA   =   .000   ELEVON =   .000

RUN NO. 461/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL
38.822	-.234	.59460	-.08044	.05797	.02042	.00324	.00082	-.00193
40.088	2.253	.59537	.03556	.05636	.02739	.00324	.00083	-.00177
40.254	4.484	.59568	.14633	.05963	.03396	.00319	.00084	-.00164
40.159	6.430	.59712	.24368	.06592	.03948	.00351	.00074	-.00187
40.206	8.402	.59658	.33568	.07592	.04327	.00336	.00060	-.00151
40.248	10.328	.59706	.43288	.09364	.05414	.00334	.00026	-.00165
40.591	12.418	.59705	.56002	.13350	.05411	.00376	.00004	-.00155
39.934	14.328	.59593	.65151	.18065	.05771	.00286	.00008	-.00213
GRADIENT		.00023	.04804	.00033	.00287	-.00001	.00000	.00006

ARC 14-120(CA23B) 02S1

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

BETA   =   .000   ELEVON =   .000
DZ   = 50.000

RUN NO. 471/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
6.055	.59522	.22276	.06445	.03805	.00315	.00088	-.00140	49.63740
10.519	.59562	.44810	.09661	.05454	.00309	.00019	-.00179	50.29570
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX   -.046   .212

RUN NO. 472/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.995	.59612	.22272	.06423	.03805	.00205	.00059	-.00151	48.86470
10.412	.59578	.43519	.09447	.05406	.00318	.00020	-.00199	50.29140
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX   4.734   5.194

RUN NO. 473/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.974	.59634	.22044	.06417	.03798	.00306	.00079	-.00153	49.00850
10.420	.59508	.43279	.09432	.05428	.00393	.00033	-.00166	50.75890
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX   9.687   10.187

RUN NO. 474/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.891	.59647	.21019	.06353	.03758	.00282	.00069	-.00175	48.93470
10.503	.59516	.44259	.09595	.05420	.00359	.00023	-.00193	50.66530
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX   14.701   15.158

RUN NO. 475/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.884	.59557	.21037	.06360	.03735	.00329	.00080	-.00173	49.39420
10.481	.59415	.44320	.09549	.05454	.00322	.00015	-.00158	51.00510
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX   19.661   20.118

ARC 14-120(CA23B)   O2S1

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

(CNH048)	(21 OCT 75)
BETA = .000	ELEVON = .000
DZ = 3.000	

RUN NO. 481/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DX	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
6.062	-.066	.59478	.22401	.06421	.03847	.00291	.00064	-.00199	2.71022
10.557	.194	.59419	.45214	.09688	.05476	.00342	.00013	-.00267	3.37922
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 482/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DX	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.859	4.719	.59465	.21478	.06332	.03803	.00324	.00074	-.00203	1.96064
10.488	5.154	.59475	.44537	.09581	.05506	.00355	.00023	-.00204	3.68903
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 483/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DX	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.908	9.696	.59403	.21247	.06344	.03790	.00350	.00082	-.00173	2.05427
10.472	10.116	.59511	.43902	.09478	.05458	.00391	.00033	-.00223	3.95290
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 484/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DX	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
6.043	14.663	.59497	.22493	.06388	.03852	.00381	.00079	-.00209	2.33897
10.416	15.113	.59456	.43587	.09403	.05462	.00389	.00023	-.00205	3.53795
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 485/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DX	MACH	CL	CD	CLM	CY	CYN	CBL	DZ
5.858	19.772	.59425	.21325	.06304	.03788	.00372	.00081	-.00205	1.87798
10.427	20.191	.59478	.43973	.09437	.08440	.00342	.00014	-.00233	3.29780
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH008)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1103.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
1ORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 81/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
4.365	.192	-.02401	-.10876	7.13931	.91914	.03572	.32977	-.00047	.00125
2.954	2.364	-.03533	-.09956	.85653	.69755	.03008	.35124	-.00065	.00108
3.443	4.308	-.04096	-.10169	.54517	.57102	.01995	.42111	-.00069	.00085
GRADIENT		-.00414	.00177	-1.62692	-.08491	-.00381	.02195	-.00005	-.00010

RUN NO. 82/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
6.994	-.126	-.02455	-.04307	-10.98800	.41163	.04027	.29732	-.00049	.00123
7.541	2.378	-.03096	-.04527	.74617	.31383	.02981	.36065	-.00068	.00115
7.335	4.361	-.03794	-.02562	.49892	.14322	.01999	.43337	-.00066	.00083
GRADIENT		-.00297	.00368	2.65110	-.05892	-.00451	.03010	-.00004	-.00009

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.751	-.141	-.02355	-.01931	-9.48584	.18416	.04073	.29863	-.00070	.00110
9.637	2.414	-.03009	-.02549	.71430	.17686	.02980	.36331	-.00102	.00086
9.522	4.401	-.03304	-.03304	.43641	.18466	.02073	.43228	-.00081	.00087
GRADIENT		-.00221	-.00299	2.26917	-.00003	-.00440	.02924	-.00003	-.00005

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.752	-.014	-.02608	-.02440	-62.46180	.22804	.04130	.29959	-.00079	.00108
15.063	2.461	-.02807	-.04108	.65368	.28148	.03037	.36906	-.00097	.00104
15.188	4.492	-.03685	-.03121	.47049	.17167	.02036	.44943	-.00082	.00076
GRADIENT		-.00233	-.00170	14.38136	-.01129	-.00464	.03307	-.00001	-.00007

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.536	-.028	-.02407	-.03133	-40.44000	.29506	.04332	.29658	-.00085	.00109
29.860	2.454	-.03185	-.04291	.74080	.29463	.03154	.38058	-.00107	.00098
29.902	4.226	-.03897	-.03159	.51892	.17718	.02249	.45776	-.00108	.00064
GRADIENT		-.00342	-.00032	9.85305	-.02565	-.00480	.03699	-.00006	-.00010

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (DNH008)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 86/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.873	-.055	-.02757	-.02362	-23.10330	.22277	.04486	.29396	-.00076	-.00100
44.666	2.496	-.03315	-.02345	.76090	.16089	.03257	.38642	-.00101	-.00086
45.029	4.342	-.03517	-.01912	.46448	.10662	.02274	.47677	-.00104	-.00057
GRADIENT		-.00175	-.00096	5.59553	-.02822	-.00500	.04115	-.00006	-.00009

RUN NO. 87/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.039	-.106	-.02787	-.01649	-14.70380	.15753	.04512	.29349	-.00083	-.00094
50.412	2.490	-.03042	-.02879	.76395	.19650	.03274	.39006	-.00076	-.00091
50.166	4.334	-.03850	-.02255	.50951	.12637	.02314	.47594	-.00083	-.00051
GRADIENT		-.00237	-.00159	3.59220	-.00558	-.00494	.04084	.00000	-.00009

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (DNH009)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 91/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
8.075	.274	-.02879	-.03081	5.99245	.19735	.02290	.45079	-.00068	-.00084
7.276	2.380	-.03042	-.02885	.73241	.16196	.01793	.47805	-.00039	-.00067
7.800	4.334	-.03350	-.02166	.44328	.10141	.00968	.55909	-.00073	-.00007
GRADIENT		-.00116	.00224	-1.38154	-.02354	-.00324	.02650	-.00001	-.00022

RUN NO. 92/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.930	-.015	-.02295	-.03073	-57.20780	.21687	.02827	.40271	-.00087	-.00102
10.158	2.498	-.03277	-.03839	.75188	.21172	.01788	.48241	-.00060	-.00076
9.843	4.339	-.03474	-.02139	.45919	.10044	.01014	.56336	-.00071	-.00011
GRADIENT		-.00278	.00184	13.82212	-.02529	-.00416	.03659	-.00004	-.00025

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (DNH009) (08 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF	= 474.8100 IN.	YMRP = .0000 IN. YO
BREF	= 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE	= .0125	

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
1ORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 93/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.862	-.101	-.02177	-.03827	-12.10710	.27336	.02986	.39523	-.00093	.00081
14.490	2.534	-.03046	-.02906	.68879	.16081	.01861	.48206	-.00088	.00052
15.108	4.322	-.03437	-.02133	.45608	.09991	.01106	.56879	-.00080	-.00019
GRADIENT		-.00288	.00380	2.99138	-.03947	-.00425	.03876	.00003	-.00022

RUN NO. 94/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.926	-.027	-.02424	-.02110	-42.27900	.14975	.03117	.40021	-.00116	-.00084
29.957	2.539	-.03487	-.03376	.78716	.18566	.01981	.49878	-.00097	.00038
29.720	4.365	-.04212	-.01885	.55338	.08835	.01260	.59425	-.00064	-.00035
GRADIENT		-.00408	.00016	10.21075	-.01216	-.00424	.04381	.00012	-.00026

RUN NO. 95/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.465	-.192	-.02338	-.01754	-6.94078	.12774	.03408	.38564	-.00107	.00092
44.798	2.406	-.03033	-.03095	.72242	.17258	.02155	.49517	-.00089	.00034
44.826	4.485	-.03926	-.02844	.50205	.13191	.01315	.61541	-.00083	-.00026
GRADIENT		-.00337	-.00245	1.64707	.00156	-.00449	.04884	.00005	-.00025

RUN NO. 96/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.555	-.078	-.03005	-.02435	-20.97440	.17333	.03303	.39818	-.00111	-.00089
50.407	2.550	-.03265	-.02537	.73404	.13939	.02062	.50829	-.00102	.00023
50.452	4.393	-.04020	-.02682	.52481	.12503	.01357	.61452	-.00074	-.00047
GRADIENT		-.00218	-.00054	5.04293	-.01095	-.00438	.04794	.00008	-.00030

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (DNH010)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

		PARAMETRIC DATA
BETA = .000		STAB = 5.000
RUDDER = .000		ELEVON = 5.000
IORB = 8.000		DX = .000
DY = .000		MACH = .600

RUN NO. 101/ 0   RN/L = 3.39   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
6.742	.132	-.03786	-.08097	15.98680	.58112	.02829	.40582	-.00099	.00103
7.349	2.303	-.04006	-.08924	.99677	.50184	.01814	.48704	-.00094	-.00053
7.463	4.270	-.03935	-.08411	.52838	.39704	.01076	.56921	-.00075	-.00020
	GRADIENT	-.00037	-.00081	-3.79022	-.04435	-.00424	.03945	.00006	.00030

RUN NO. 102/ 0   RN/L = 3.38   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.009	-.206	-.03319	-.03516	-9.14115	.25384	.02923	.40472	-.00095	.00100
10.088	2.335	-.04042	-.03365	.99200	.18864	.01834	.49169	-.00060	.00056
10.447	4.346	-.03977	-.04055	.52480	.18940	.01117	.58229	-.00055	-.00041
	GRADIENT	-.00151	-.00111	2.20373	-.01465	-.00398	.03880	.00009	-.00030

RUN NO. 103/ 0   RN/L = 3.37   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.028	-.178	-.03442	-.03806	-10.91640	.27412	.02949	.40706	-.00112	.00089
14.812	2.367	-.03607	-.03222	.87350	.18060	.01914	.49209	-.00092	.00044
15.043	4.381	-.03720	-.02935	.48698	.13707	.01176	.58673	-.00094	-.00033
	GRADIENT	-.00061	.00193	2.59261	-.03034	-.00390	.03914	.00004	-.00026

RUN NO. 104/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.734	-.108	-.03396	-.02025	-17.50900	.14541	.03104	.40782	-.00119	.00082
30.254	2.360	-.03978	-.02508	.96584	.13985	.01981	.50881	-.00096	.00024
29.860	4.407	-.04015	-.02305	.52247	.10761	.01308	.60720	-.00078	-.00039
	GRADIENT	-.00140	-.00067	4.11272	-.00816	-.00400	.04405	.00009	-.00027

RUN NO. 105/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.868	-.111	-.03296	-.03145	-16.47020	.22554	.03188	.40758	-.00120	.00082
45.183	2.422	-.03866	-.03268	.91470	.18116	.01993	.52122	-.00072	.00022
45.129	4.429	-.03932	-.02344	.50917	.10897	.01367	.62324	-.00102	-.00027
	GRADIENT	-.00144	.00167	3.87374	-.02532	-.00404	.04739	.00005	-.00024

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH010)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 106/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.418	-.076	-.03425	-.03157	-24.19930	-.22512	.03236	.40721	-.00107	.00084
50.480	2.472	-.03651	-.02435	.84657	.13458	.02033	.51901	-.00079	.00024
50.477	4.415	-.04021	-.01688	.52230	.07855	.01367	.62856	-.00081	-.00033
	GRADIENT	-.00131	.00325	5.72305	-.03278	-.00419	.04901	.00006	-.00026

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH011)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 111/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.151	.047	-.02341	-.11075	26.60780	1.58291	.04832	.18739	-.00063	.00108
3.118	2.270	-.03080	-.10941	.77746	1.02370	.04025	.24792	-.00043	.00116
3.528	4.264	-.03447	-.10860	.46360	.75986	.03104	.31069	-.00055	.00101
	GRADIENT	-.00264	.00051	-6.30222	-.19622	-.00409	.02920	.00002	-.00001

RUN NO. 112/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.547	-.170	-.02451	-.11970	-8.21007	1.69918	.04832	.19935	-.00060	.00123
7.199	2.385	-.03117	-.10988	.74906	1.00897	.04007	.25843	-.00070	.00115
7.175	4.257	-.03785	-.11583	.50986	.81416	.03136	.31628	-.00066	.00125
	GRADIENT	-.00299	.00105	2.06044	-.20407	-.00380	.02622	.00002	.00000

RUN NO. 113/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.781	-.120	-.02656	-.11596	-12.50350	1.64035	.04862	.19967	-.00072	.00128
9.781	2.353	-.03276	-.11241	.79807	1.03445	.04047	.26129	-.00067	.00123
9.491	4.419	-.03856	-.11246	.50052	.77832	.03081	.32235	-.00079	.00116
	GRADIENT	-.00264	.00079	2.94672	-.19172	-.00390	.02696	-.00001	-.00003

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (DNH011)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 4.000   DX   =   .000
SCALE =   .0125   DY   = .000   MACH   =   .600

RUN NO. 114/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.874	-.041	-.03158	-.11731	-37.75920	1.61977	.04944	.20441	-.00081	.00137
14.967	2.414	-.03386	-.11444	.80362	1.03828	.04077	.26890	-.00067	.00137
14.923	4.392	-.03861	-.11849	.50413	.81656	.03107	.33371	-.00080	.00120
GRADIENT		-.00156	-.00021	8.91129	-.18339	-.00412	.02905	.00000	-.00004

RUN NO. 115/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.907	-.177	-.02656	-.11781	-8.53365	1.68668	.05145	.19895	-.00098	.00127
29.803	2.432	-.03132	-.10938	.73812	.99348	.04271	.27909	-.00086	.00111
29.693	4.435	-.04008	-.11499	.51832	.79100	.03186	.35546	-.00101	.00120
GRADIENT		-.00288	.00074	2.04115	-.19773	-.00420	.03378	-.00000	-.00002

RUN NO. 116/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.786	-.134	-.02629	-.10711	-11.09150	1.52576	.05283	.19869	-.00093	.00114
45.057	2.347	-.03335	-.10582	.81448	.96551	.04318	.29112	-.00081	.00111
44.452	4.450	-.03876	-.11672	.49958	.80359	.03225	.37378	-.00095	.00111
GRADIENT		-.00272	-.00202	2.59569	-.15955	-.00447	.03816	-.00000	-.00001

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (DNH012)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   = .000   MACH   =   .600

RUN NO. 121/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.209	.038	-.02403	-.11185	32.59070	1.07055	.03871	.29777	-.00049	.00125
3.176	2.411	-.02869	-.11753	.68203	.81762	.02821	.35714	-.00053	.00113
3.398	4.319	-.03801	-.10642	.50466	.59669	.01896	.42699	-.00056	.00086
GRADIENT		.00321	.00112	-7.73165	-.11051	-.00461	.02997	-.00002	-.00009

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REFERENCE DATA

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

(DNH012)   (08 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 5.000
DY = .000	MACH = .600

RUN NO. 122/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.586	-.026	-.02811	-.11292	-47.68780	1.05177	.03786	.31091	-.00069	.00131
7.752	2.399	-.03271	-.11194	.78115	.77121	.02799	.36978	-.00083	.00135
7.261	4.448	-.03798	-.09920	.48964	.55069	.01865	.43761	-.00095	.00104
	GRADIENT	-.00220	.00299	11.04783	-.11211	-.00429	.02820	-.00006	-.00006

RUN NO. 123/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.180	-.156	-.02594	-.11073	-9.45049	1.04900	.07905	.30663	-.00096	.00132
9.988	2.439	-.03357	-.11282	.78898	.77720	.02850	.36753	-.00086	.00127
10.110	4.458	-.03737	-.10592	.48077	.58516	.01838	.44824	-.00103	.00083
	GRADIENT	-.00250	.00096	2.23580	-.10073	-.00446	.03036	-.00001	-.00010

REFERENCE DATA

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

(DNH013)   (08 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 131/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.093	.127	-.01363	-.10041	6.10814	.95072	.03942	.30455	-.00033	.00106
3.006	2.255	-.02297	-.10209	.58365	.72488	.02998	.35773	-.00024	.00113
3.460	4.338	-.02211	-.08994	.29224	.50356	.01970	.43122	-.00033	.00084
	GRADIENT	-.00202	.00247	-1.38557	-.10519	-.00468	.03006	-.00000	-.00005

RUN NO. 132/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.217	-.139	-.01465	-.10535	-6.02567	1.00523	.04005	.30511	-.00032	.00112
7.234	2.360	-.01885	-.09890	.45777	.68905	.02961	.36564	-.00042	.00111
7.262	4.367	-.02036	-.09513	.26739	.53220	.01960	.43890	-.00041	.00084
	GRADIENT	-.00129	.00228	1.44473	-.10584	-.00452	.02947	-.00002	-.00006

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH013)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
1ORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 133/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.116	-.237	-.01706	-.10377	-4.11140	.99648	.04054	.30512	-.00047	.00128
9.960	2.407	-.01882	-.08719	.44820	.60332	.02930	.36931	-.00056	.00101
9.890	4.371	-.02200	-.08783	.28859	.49039	.01957	.44241	-.00058	.00085
GRADIENT		-.00105	.00362	.99792	-.11200	-.00453	.02948	-.00003	-.00010

RUN NO. 134/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.175	-.191	-.02211	-.09798	-6.58827	.93377	.04096	.30505	-.00056	.00110
14.756	2.411	-.02076	-.09538	.49354	.66058	.03035	.37125	-.00059	.00099
15.038	4.441	-.02383	-.09119	.30774	.50485	.01978	.45062	-.00077	.00073
GRADIENT		-.00033	.00144	1.54547	-.09317	-.00455	.03115	-.00004	-.00008

RUN NO. 135/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
30.192	-.063	-.02869	-.09840	-24.55400	.92147	.04181	.30896	-.00089	.00109
29.830	2.435	-.03091	-.09207	.72761	.63439	.03084	.38496	-.00083	.00096
29.948	4.393	-.03562	-.09852	.46506	.54824	.02070	.46762	-.00085	.00080
GRADIENT		-.00152	.00009	5.81839	-.08517	-.00472	.03538	.00001	-.00007

RUN NO. 136/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.708	-.049	-.02818	-.08807	-30.15350	.83074	.04304	.30498	-.00057	.00103
44.452	2.450	-.03322	-.09149	.77706	.63200	.03145	.38833	-.00077	.00095
44.667	4.474	-.03625	-.08813	.46476	.48762	.02096	.48100	-.00067	.00057
GRADIENT		-.00179	-.00007	6.98692	-.07602	-.00487	.03871	-.00003	-.00010

RUN NO. 137/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.164	-.057	-.02860	-.09393	-26.61570	.88566	.04393	.30334	-.00053	.00103
50.275	2.433	-.03271	-.09205	.77048	.63379	.03227	.39244	-.00051	.00095
50.038	4.464	-.03731	-.08744	.47934	.48464	.02125	.48705	-.00044	.00055
GRADIENT		-.00192	.00141	6.17858	-.08916	-.00500	.04045	.00002	-.00010

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH014)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 10.000
DY = .000	MACH = .600

RUN NO. 141/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	2.292	-.01280	-.06053	.31988	.42703	.03046	.35828	-.00004	.00119
	4.239	-.01529	-.05714	.20685	.32308	.02145	.42005	-.00027	.00098
DZ									
3.324									
3.528	GRADIENT	-.00128	.00174	-.05808	-.05341	-.00463	.03174	.00012	-.00011

RUN NO. 142/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.933	-.01416	-.06404	.41998	.45795	.03037	.36614	-.00033	.00117
	4.300	-.01526	-.06314	.20349	.35723	.02096	.42883	-.00038	.00094
DZ									
7.340									
7.097	GRADIENT	-.00046	.00038	-.09144	-.04254	-.00398	.02648	-.00002	-.00009

RUN NO. 143/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.946	-.00951	-.05199	.28014	.36992	.03059	.36776	-.00049	.00105
	4.403	-.01435	-.05694	.18696	.31845	.02066	.43485	-.00041	.00089
DZ									
10.137									
9.825	GRADIENT	-.00197	-.00202	-.03792	-.02095	-.00404	.02731	.00003	-.00006

RUN NO. 144/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.968	-.01610	-.06263	.46894	.44604	.03144	.36913	-.00036	.00107
	4.376	-.02033	-.05095	.26641	.28556	.02127	.44243	-.00058	.00086
DZ									
14.831									
14.775	GRADIENT	-.00175	.00485	-.08412	-.06665	-.00423	.03045	-.00009	-.00009

RUN NO. 145/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.997	-.02870	-.06409	.82332	.45433	.03195	.38204	-.00069	.00103
	4.392	-.03153	-.04940	.41164	.27580	.02099	.46704	-.00088	.00070
DZ									
30.007									
29.873	GRADIENT	-.00118	.00613	-.17169	-.07454	-.00458	.03549	-.00008	-.00014

RUN NO. 146/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.998	-.02928	-.06037	.83988	.42896	.03264	.38349	-.00056	.00111
	4.430	-.03316	-.05230	.42924	.29070	.02066	.48689	-.00071	.00051
DZ									
44.854									
44.891	GRADIENT	-.00159	.00332	-.16883	-.05684	-.00492	.04251	-.00006	-.00024

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (DNH014)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 10.000
SCALE =	.0125		MACH = .600

BETA = .000
RUDDER = .000
IORB = 6.000
DY = .000

RUN NO. 147/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.049	-.03183	-.05552	.89046	.39168	.03246	.39160	-.00057	.00078
4.431	-.03343	-.05247	.43278	.29200	.02102	.48446	-.00051	.00056
GRADIENT	-.00067	.00128	-.19214	-.04185	-.00480	.03898	.00003	-.00009

DZ
50.387
50.182

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (DNH015)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 10.000
SCALE =	.0125		MACH = .600

BETA = .000
RUDDER = .000
IORB = 8.000
DY = .000

RUN NO. 151/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.410	-.01539	-.05552	.36584	.31121	.01860	.47831	-.00036	.00074
4.362	-.02184	-.05594	.28710	.26196	.00962	.55854	-.00015	.00004
GRADIENT	-.00330	-.00021	-.04035	-.02523	-.00461	.04111	.00011	-.00036

DZ
7.261
7.540

RUN NO. 152/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.043	-.01620	-.05238	.45446	.29782	.01867	.48229	-.00041	.00079
4.469	-.02110	-.05759	.27085	.26759	.00951	.57226	-.00045	-.00003
GRADIENT	-.00202	-.00215	-.07571	-.01246	-.00378	.03710	.00002	-.00034

DZ
9.896
10.215

RUN NO. 153/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.079	-.02047	-.04574	.56414	.25921	.01914	.48734	-.00065	.00063
4.497	-.02265	-.04780	.28886	.22228	.01023	.58194	-.00032	-.00030
GRADIENT	-.00090	-.00085	-.11388	-.01528	-.00368	.03913	.00014	-.00039

DZ
14.806
14.750

RUN NO. 154/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.049	-.03036	-.05990	.84898	.33936	.02003	.50434	-.00068	.00051
4.493	-.03550	-.05189	.45306	.24052	.01143	.60916	-.00031	-.00032
GRADIENT	-.00210	.00328	-.16197	-.04044	-.00352	.04288	.00015	-.00034

DZ
30.131
30.087

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA   (DNH015)   (08 OCT 75)

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 155/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	2.044	-.03319	-.04639	.93043	.26416	.02079	.50263	-.00088	-.00037
	4.460	-.03648	-.04968	.46906	.23069	.01201	.62177	-.00039	-.00017
DZ 44.833									
45.102									
GRADIENT	-.00136	-.00136	-.19100	-.01386	-.00363	.04932	.00020	-.00022	

RUN NO. 156/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	2.016	-.03450	-.04601	.98066	.26268	.02091	.50562	-.00062	-.00036
	4.375	-.03719	-.05004	.48742	.23415	.01240	.62291	-.00026	-.00040
DZ 50.292									
50.425									
GRADIENT	-.00114	-.00171	-.20906	-.01210	-.00361	.04972	.00015	-.00032	

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA   (DNH016)   (08 OCT 75)

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RUN NO. 161/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	2.461	-.01182	-.03333	.27527	.23156	.03289	.36105	-.00023	.00113
	4.340	-.01773	-.04504	.23431	.25269	.02369	.42262	-.00038	.00098
DZ 2.997									
3.241									
GRADIENT	-.00315	-.00623	-.02180	.01125	-.00490	.03278	-.00008	-.00008	

RUN NO. 162/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	2.024	-.01557	-.03938	.44088	.27945	.03242	.36709	-.00048	.00129
	4.482	-.01969	-.03932	.25198	.21856	.02239	.43402	-.00061	.00109
DZ 7.114									
7.110									
GRADIENT	-.00168	.00002	-.07683	-.02473	-.00408	.02722	-.00005	-.00008	

RUN NO. 153/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	1.989	-.01433	-.04140	.41286	.29275	.03231	.36972	-.00056	.00114
	4.485	-.02025	-.03759	.25891	.20939	.02269	.43416	-.00065	.00099
DZ 10.110									
9.502									
GRADIENT	-.00237	.00153	-.06168	-.03340	-.00385	.02582	-.00004	-.00006	

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (DNH016) (08 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	5.000	
RUDDER =	.000	ELEVON =	5.000	
IORB =	6.000	DX =	20.000	
DY =	.000	MACH =	.600	

RUN NO. 164/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.147	-.01853	-.03531	.49453	.24571	.03153	.37800	-.00066	.00112
4.296	-.02454	-.04432	.32759	.25025	.02268	.44005	-.00088	.00088
GRADIENT	-.00280	-.00419	-.07770	.00211	-.00412	.02888	-.00010	-.00011

DZ
14.885
14.669

RUN NO. 165/ 0   RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.006	-.02941	-.03728	.83991	.26398	.03222	.38230	-.00098	.00109
4.442	-.03310	-.02971	.42727	.16541	.02171	.46542	-.00079	.00077
GRADIENT	-.00151	.00311	-.16939	-.04046	-.00431	.03412	.00008	-.00013

DZ
29.970
29.738

RUN NO. 166/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.001	-.03180	-.04071	.91065	.28957	.03277	.38518	-.00076	.00099
4.440	-.03674	-.03905	.47457	.21740	.02127	.48116	-.00097	.00066
GRADIENT	-.00202	.00068	-.17881	-.02959	-.00471	.03936	-.00009	-.00014

DZ
44.740
44.620

RUN NO. 167/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.983	-.03094	-.03538	.89420	.25207	.03334	.38451	-.00071	.00103
4.478	-.03710	-.03895	.47518	.21516	.02128	.48701	-.00088	.00059
GRADIENT	-.00247	-.00143	-.16791	-.01479	-.00483	.04107	-.00007	-.00018

DZ
50.218
50.509

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

(DNH017)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 20.000
DY = .000	MACH = .600

RUN NO. 171/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.320	-.05280	-.02250	.55574	.29786	.02051	.47382	-.00078	.00077
4.409	-.03816	-.02961	.38562	.17796	.01073	.55741	-.00033	-.00004
GRADIENT	.00701	-.00342	-.08146	-.05741	-.00468	.04002	.00022	-.00039

DZ 7.409 7.682

RUN NO. 172/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
1.989	-.04476	-.02424	.69824	.25469	.02029	.48058	-.00071	.00081
4.367	-.04339	-.02801	.36783	.20389	.01137	.55863	-.00061	-.00008
GRADIENT	.00058	-.00159	-.13896	-.02136	-.00375	.03282	.00004	-.00037

DZ 10.200 9.876

RUN NO. 173/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.042	-.04430	-.02756	.77345	.25118	.02039	.48257	-.00109	.00076
4.390	-.04124	-.02838	.37080	.19334	.01138	.56674	-.00070	-.00012
GRADIENT	.00130	-.00035	-.17151	-.02464	-.00384	.03585	.00016	-.00037

DZ 14.980 14.840

RUN NO. 174/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
1.994	-.03893	-.03417	.98158	.22154	.02104	.49286	-.00091	.00067
4.397	-.05055	-.04190	.54644	.23681	.01199	.59560	-.00086	-.00023
GRADIENT	-.00484	-.00322	-.18111	.00636	-.00376	.04276	.00002	-.00038

DZ 30.168 29.810

RUN NO. 175/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.109	-.03866	-.03555	.96560	.21860	.02053	.50440	-.00085	.00028
4.417	-.04473	-.04035	.52387	.20806	.01218	.61672	-.00095	-.00023
GRADIENT	-.00263	-.00208	-.19141	-.00457	-.00362	.04867	-.00004	-.00022

DZ 44.854 45.244

RUN NO. 176/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAO	BETAC	PHIC	PHIO	CA	CN	CSL	CLN
2.118	-.03588	-.03598	.97366	.20281	.02116	.50254	-.00082	.00044
4.352	-.04182	-.03800	.50080	.19570	.01263	.61458	-.00081	-.00023
GRADIENT	-.00266	-.00090	-.21167	-.00319	-.00382	.05016	.00000	-.00030

DZ 50.344 50.595

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH018)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = 5.00	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 181/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.378	2.472	-.05330	-.04653	1.23581	.32090	.02798	.37197	-.00392	.00017
3.590	4.405	-.04626	-.03533	.60218	.19618	.01811	.43960	-.00661	.00021
GRADIENT		.00364	.00579	-.32765	-.06449	-.00511	-.03497	-.00139	.00002

RUN NO. 182/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.711	2.009	-.04982	-.03557	1.42106	.25146	.02932	.37676	-.00295	.00029
7.202	4.378	-.03609	-.04085	.47278	.22910	.01901	.44424	-.00526	.00027
GRADIENT		.00579	-.00223	-.40024	-.00944	-.00435	.02848	-.00098	-.00001

RUN NO. 183/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.911	2.005	-.04669	-.04412	1.33418	.31295	.02980	.37558	-.00293	.00049
10.102	4.475	-.02745	-.02597	.35177	.14366	.01862	.45564	-.00484	.00012
GRADIENT		.00779	.00735	-.39775	-.06854	-.00453	.03241	-.00077	-.00015

RUN NO. 184/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.973	2.102	-.03302	-.03984	.90033	.27916	.03002	.38091	-.00280	.00063
14.736	4.362	-.01495	-.03269	.19656	.18330	.01983	.45554	-.00396	.00028
GRADIENT		.00799	.00316	-.31129	-.04240	-.00451	.03301	-.00051	-.00015

RUN NO. 185/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.716	2.100	-.00154	-.04508	.04202	.31743	.03183	.38424	-.00201	.00084
29.761	4.335	.01266	-.04340	-.16756	.24384	.02144	.46976	-.00273	.00043
GRADIENT		.00636	.00075	-.09378	-.03293	-.00465	.03827	-.00032	-.00018

RUN NO. 186/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.733	1.972	-.00480	-.04216	.13937	.30126	.03319	.38695	-.00153	.00091
44.856	4.308	.00046	-.03500	-.00608	.19684	.02192	.48335	-.00192	.00047
GRADIENT		.00225	.00307	-.06227	-.04470	-.00482	.04127	-.00017	-.00019

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (DNH018)   (08 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1109.0000 IN. XO
LREF	= 474.8100 IN.	YMRP	= .0000 IN. YO
BREF	= 936.6800 IN.	ZMRP	= 375.0000 IN. ZO
SCALE	= .0125		

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 187/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.021	49.952	-.01038	-.04737	.29428	.33765	.03365	.38615	-.00128	.00093
4.396	50.410	-.00661	-.05131	.08622	.28566	.02139	.49147	-.00171	.00037
GRADIENT		.00159	-.00166	-.08761	-.02189	-.00516	.04435	-.00018	-.00023

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (DNH019)   (08 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP	= 1109.0000 IN. XO
LREF	= 474.8100 IN.	YMRP	= .0000 IN. YO
BREF	= 936.6800 IN.	ZMRP	= 375.0000 IN. ZO
SCALE	= .0125		

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.405	7.491	-.03781	-.03168	.90077	.17717	.01696	.49339	-.00392	.00003
4.380	7.844	-.01596	-.02537	.20895	.11826	.00866	.58040	-.00558	.00016
GRADIENT		.01106	.00320	-.35027	-.02983	-.00420	.04405	-.00084	.00007

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.116	9.818	-.03372	-.02745	.91320	.15535	.01732	.49501	-.00339	.00013
4.310	9.759	-.01013	-.02251	.13473	.10619	.00965	.57490	-.00979	.00001
GRADIENT		.01076	.00226	-.35487	-.02241	-.00350	.03642	-.00063	-.00006

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.964	14.864	-.02325	-.03502	.67824	.20068	.01944	.48665	-.00252	.00030
4.414	15.018	.00227	-.03061	-.02949	.14293	.01044	.58666	-.00371	.00003
GRADIENT		.01041	.00180	-.28887	-.02357	-.00367	.04082	-.00048	-.00013

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.014	30.225	.01179	-.02737	-.33535	.15917	.02040	.49778	-.00175	.00036
4.404	30.105	.03046	-.02455	-.39659	.11458	.01217	.61006	-.00217	-.00023
GRADIENT		.00781	.00143	-.02563	-.01866	-.00344	.04698	-.00017	-.00025

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)

(DNH019)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO		RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO		IORB	=	8.000	DX	=	.000
SCALE	=	.0125						DY	=	10.000	MACH	=	.600

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.014	.00407	-.03615	-.11587	.20762	.02121	.50064	-.00152	.00035
4.380	.00668	-.03124	-.08750	.14588	.01280	.62381	-.00158	.00002
GRADIENT	.00110	.00208	.01199	-.02609	-.00355	.05205	-.00003	-.00014

DZ
44.421
45.079

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.002	-.00131	-.04085	.03751	.23372	.02118	.50443	-.00109	.00035
4.323	-.00061	-.02055	.00815	.09665	.01332	.62171	-.00145	-.00024
GRADIENT	.00030	.00874	-.01264	-.05904	-.00338	.05051	-.00016	-.00026

DZ
50.290
50.279

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)

(DNH020)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO		RUDDER	=	.000	ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO		IORB	=	4.000	DX	=	.000
SCALE	=	.0125						DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.056	-.02828	-.08876	26.67240	1.27147	.04686	.11551	-.00102	.00082
2.231	-.03056	-.06736	.78482	.63585	.03860	.17505	-.00115	.00092
4.258	-.03382	-.09060	.45546	.63611	.02932	.23611	-.00085	.00098
GRADIENT	-.00132	-.00031	-6.30867	-.15293	-.00417	.02869	.00004	.00004

DZ
2.999
2.972
3.376

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.232	-.02757	-.06478	-6.78415	.93772	.04713	.11998	-.00113	.00082
2.422	-.03173	-.07644	.75071	.69653	.03846	.18089	-.00109	.00097
4.286	-.03467	-.07960	.46391	.55830	.02923	.24151	-.00106	.00098
GRADIENT	-.00157	-.00336	1.68783	-.08444	-.00392	.02663	.00002	.00004

DZ
7.356
7.305
7.176

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (DNH020) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 0/ 0   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.998	-.190	-.03105	-.07750	-9.30004	1.10478	.04744	.12146	-.00134	.00101
9.822	2.393	-.03424	-.08742	.81997	.79993	.03838	.18730	-.00132	.00105
9.715	4.416	-.03357	-.07630	.43602	.52700	.02907	.24615	-.00094	.00110
GRADIENT		-.00058	.00008	2.19562	-.12512	-.00397	.02700	.00008	.00002

RUN NO. 0/ 0   RN/L = 0/ 0   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.608	-.076	-.02818	-.07640	-20.23390	1.07213	.04749	.12499	-.00149	.00090
14.941	2.433	-.03134	-.07495	.73837	.67795	.03879	.19292	-.00126	.00097
14.567	4.425	-.03172	-.07672	.41119	.52958	.02933	.25573	-.00103	.00092
GRADIENT		-.00081	.00004	4.74688	-.12209	-.00401	.02896	.00010	.00000

RUN NO. 0/ 0   RN/L = 0/ 0   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.742	-.160	-.03287	-.07696	-11.64240	1.10106	.04946	.12024	-.00160	.00085
29.812	2.421	-.03327	-.07190	.78744	.65328	.04017	.20333	-.00138	.00078
29.770	4.475	-.03485	-.07954	.44661	.54419	.02959	.27614	-.00142	.00083
GRADIENT		-.00041	-.00045	2.70131	-.12240	-.00426	.03358	.00004	-.00000

RUN NO. 0/ 0   RN/L = 0/ 0   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.518	-.106	-.03181	-.07540	-16.70720	1.07283	.05005	.11990	-.00142	.00081
44.662	2.474	-.03453	-.07541	.80009	.67953	.04036	.21261	-.00147	.00081
44.473	4.486	-.03660	-.06670	.45726	.45726	.02958	.29126	-.00135	.00076
GRADIENT		-.00104	.00181	3.88044	-.13490	-.00443	.03725	.00001	-.00001

ARC 14-120(CA23B)   747/1 AT1 0251 (ORBITER DATA)

(DNH021)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 211/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.110	.173	-.02110	-.09391	6.95086	1.29997	.04480	.11437	-.00100	.00088
3.078	2.255	-.03101	-.09682	.78797	.90716	.03725	.16872	-.00102	.00098
3.099	4.353	-.03504	-.10020	.46166	.69789	.02781	.23373	-.00090	.00088
GRADIENT		-.00333	-.00153	-1.55055	-.14397	-.00407	.02856	-.00002	-.00000

RUN NO. 212/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.673	-.126	-.02421	-.09799	-10.84500	1.37286	.04544	.11889	-.00124	.00101
7.105	2.399	-.03108	-.10688	.74259	.98064	.03721	.17505	-.00103	.00094
7.181	4.355	-.03397	-.10016	.44740	.69583	.02776	.23911	-.00106	.00088
GRADIENT		-.00220	-.00063	2.61793	-.15128	-.00391	.02661	.00004	-.00003

RUN NO. 213/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.888	-.253	-.02234	-.10311	-5.03962	1.50123	.04637	.11227	-.00127	.00088
10.133	2.398	-.03044	-.09252	.72762	.84124	.03707	.18204	-.00111	.00105
9.989	4.413	-.03202	-.09419	.41610	.64781	.02758	.24614	-.00111	.00077
GRADIENT		-.00212	.00202	1.22074	-.18627	-.00400	.02857	.00004	-.00002

RUN NO. 214/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.808	-.052	-.02282	-.09691	-23.82030	1.34952	.04610	.12319	-.00157	.00088
14.795	2.452	-.02740	-.09118	.64047	.82381	.03756	.18825	-.00124	.00088
14.946	4.403	-.03224	-.10412	.41987	.71611	.02809	.25380	-.00105	.00085
GRADIENT		-.00210	-.00144	5.64106	-.14531	-.00401	.02916	.00012	-.00001

RUN NO. 215/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.743	-.137	-.02376	-.09264	-9.85063	1.32218	.04809	.12087	-.00139	.00081
29.755	2.487	-.03203	-.08775	.73818	.79014	.03875	.20160	-.00149	.00086
29.747	4.402	-.03376	-.08901	.43980	.61393	.02909	.27182	-.00117	.00082
GRADIENT		-.00226	.00086	2.37265	-.15883	-.00415	.03311	.00004	.00000

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (DNH021)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO	STAB = -1.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO	ELEVON = .000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO	DX = .000
SCALE	=	.0125				MACH = .600

RUN NO. 216/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

					BETA =	
					RUDDER =	
					IORB =	
					DY =	

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.609	-.114	-.01992	-.08265	-9.94199	1.17747	.04928	.12097	-.00126	.00070
44.499	2.547	-.03157	-.08404	.71032	.75098	.03882	.21684	-.00146	.00076
44.744	4.315	-.03304	-.09687	.43911	.67385	.02960	.28416	-.00102	.00080
GRADIENT		-.00308	-.00299	2.47645	-.11742	-.00440	.03678	.00004	.00002

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (DNH022)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO	STAB = 5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO	ELEVON = .000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO	DX = .000
SCALE	=	.0125				MACH = .600

RUN NO. 221/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.175	.180	-.01798	-.09385	5.69209	.66443	.02374	.32685	-.00121	.00077
7.048	2.374	-.01994	-.08436	.48131	.47319	.01345	.39939	-.00109	.00062
7.827	4.374	-.02165	-.08149	-.28389	.38018	-.00483	.48740	-.00090	-.00019
GRADIENT		-.00088	.00297	-1.30708	-.06809	-.00451	.03820	.00008	-.00023

RUN NO. 222/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.008	-.095	-.01987	-.08749	-11.78550	.62331	.02437	.33226	-.00131	.00086
9.794	2.462	-.02395	-.09099	.55746	.50567	.01412	.40375	-.00141	.00061
10.168	4.329	-.02393	-.08578	.31698	.40184	.00547	.49095	-.00114	-.00021
GRADIENT		-.00096	.00028	2.85900	-.04981	-.00425	.03539	.00003	-.00023

RUN NO. 223/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.875	-.131	-.01561	-.07815	-6.77832	.56064	.02549	.32502	-.00141	.00065
15.107	2.479	-.02126	-.08579	.49153	.47415	.01372	.41064	-.00127	.00046
14.650	4.467	-.02519	-.08632	.32336	.40184	.00590	.49829	-.00114	.00002
GRADIENT		-.00209	-.00184	1.60755	-.03446	-.00427	.03743	.00006	-.00013

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH022)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000	STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000	ELEVON = .000		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 8.000	DX = .000		
SCALE = .0125				DY = .000	MACH = .600		

RUN NO. 224/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.663	-.130	-.02533	-.09274	-10.98930	.66773	.02690	.32475	-.00143	.00071
30.014	2.540	-.02959	-.09038	.66761	.49726	.01443	.42183	-.00169	.00045
30.212	4.360	-.03194	-.08373	.42012	.39081	.00728	.52093	-.00122	-.00014
GRADIENT		-.00148	.00192	2.67627	-.06183	-.00439	.04314	.00004	-.00018

RUN NO. 225/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.608	-.097	-.02843	-.08365	-16.30560	.60103	.02803	.32186	-.00145	.00069
44.758	2.520	-.03315	-.07930	.75396	.43776	.01497	.42688	-.00140	.00036
44.921	4.300	-.03688	-.08637	.49188	.40592	.00791	.52934	-.00117	-.00010
GRADIENT		-.00191	-.00045	4.02113	-.04571	-.00460	.04666	-.00006	-.00018

RUN NO. 226/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.329	-.122	-.02932	-.08725	-13.55440	.62610	.02823	.32111	-.00134	.00082
50.199	2.456	-.03269	-.07606	.76282	.42225	.01575	.42298	-.00137	.00038
50.308	4.443	-.03733	-.09256	.48180	.43064	.00779	.53614	-.00121	.00001
GRADIENT		-.00173	-.00090	3.19488	-.04458	-.00451	.04674	-.00003	-.00018

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH023)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000	STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000	ELEVON = .000		
BREF = 936.5800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 6.000	DX = .000		
SCALE = .0125				DY = .000	MACH = .600		

RUN NO. 231/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.160	.028	-.01846	-.08306	33.32190	.79878	.03609	.22545	-.00078	.00085
3.398	2.478	-.02078	-.07840	.48052	.53695	.02523	.28941	-.00095	.00082
3.235	4.342	-.02437	-.07307	.32189	.40989	.01598	.34827	-.00120	.00079
GRADIENT		-.00135	.00230	-7.94312	-.09099	-.00465	.02835	-.00010	-.00002

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH023)   (08 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

			BETA	=	.000	STAB	=	5.000
			RUDDER	=	.000	ELEVON	=	.000
			IORB	=	6.000	DX	=	.000
			DY	=	.000	MACH	=	.600

RUN NO. 232/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.044	-.157	-.01844	-.08117	-6.67827	.77814	.03625	.22953	-.00108	.00087
7.210	2.438	-.02027	-.08467	.47652	.58519	.02543	.28950	-.00101	.00078
7.208	4.444	-.02161	-.07606	.27892	.42297	.01594	.35254	-.00142	.00061
GRADIENT		-.00069	.00099	1.57164	-.07705	-.00440	.02656	-.00007	-.00006

RUN NO. 233/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.588	-.079	-.01877	-.07496	-13.36650	.70875	.03631	.23048	-.00108	.00084
9.981	2.449	-.02096	-.07655	.49045	.52627	.02573	.29069	-.00121	.00082
9.714	4.418	-.02148	-.07156	.27883	.39877	.01567	.35836	-.00139	.00064
GRADIENT		-.00061	.00069	3.14770	-.06908	-.00457	.02822	-.00007	-.00004

RUN NO. 234/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.480	-.060	-.01899	-.07835	-17.55720	.74045	.03701	.22847	-.00105	.00089
14.703	2.510	-.01969	-.07020	.44958	.48046	.02541	.29925	-.00134	.00069
14.839	4.425	-.02234	-.07276	.28959	.40432	.01649	.36117	-.00135	.00066
GRADIENT		-.00072	.00135	4.14699	-.07640	-.00457	.02947	-.00007	-.00005

RUN NO. 235/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.767	-.083	-.02720	-.07915	-18.05020	.74815	.03832	.22828	-.00125	.00084
29.743	2.454	-.02849	-.08272	.66551	.56922	.02735	.30152	-.00129	.00078
29.929	4.441	-.03141	-.07384	.40567	.40926	.01631	.38699	-.00153	.00050
GRADIENT		-.00091	.00106	4.22849	-.07471	-.00484	.03480	-.00006	-.00007

RUN NO. 236/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.538	-.030	-.03016	-.07105	-45.63040	.66987	.03930	.22714	-.00136	.00073
44.541	2.408	-.03288	-.07398	.78245	.51262	.02806	.30739	-.00121	.00060
44.965	4.398	-.03562	-.07262	.46454	.40355	.01666	.39952	-.00134	.00036
GRADIENT		-.00123	.00039	10.73182	-.06032	-.00510	.03871	.00001	-.00008

ARC 14-120(CA23B) 747/1 ATI O2SI (ORBITER DATA)   (DNH023) (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		D, = .000	MACH = .600

RUN NO. 237/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.951	-.140	-.03117	-.06300	-12.52690	.60450	.04046	.22115	-.00119	.00075
49.970	2.539	-.03313	-.06581	.74761	.44958	.02761	.31469	-.00127	.00068
50.050	4.426	-.03462	-.06447	.44853	.35867	.01711	.40081	-.00115	.00036
GRADIENT		-.00075	-.00037	2.98358	-.05410	-.00509	.03905	.00001	-.00008

ARC 14-120(CA23B) 747/1 ATI O2SI (ORBITER DATA)   (DNH024) (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 241/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.790	.104	-.01687	-.10599	9.17543	1.02723	.03591	.21623	-.00110	.00085
3.147	2.378	-.02780	-.10795	.67006	.75025	.02447	.28464	-.00103	.00083
3.235	4.382	-.03032	-.10588	.39684	.59164	.01492	.34644	-.00133	.00059
GRADIENT		-.00318	.00001	-2.08954	-.10226	-.00491	.03043	-.00005	-.00006

RUN NO. 242/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.214	-.107	-.01946	-.09671	-10.32810	.91690	.03506	.22944	-.00116	.00090
7.169	2.445	-.02538	-.10545	.59539	.72832	.02491	.28666	-.00105	.00092
7.223	4.433	-.03068	-.10967	.39700	.61002	.01498	.35295	-.00145	.00071
GRADIENT		-.00247	-.00288	2.45152	-.06790	-.00440	.02699	-.00006	-.00004

RUN NO. 243/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.900	-.036	-.01552	-.10373	-23.52540	.96998	.03509	.23178	-.00106	.00083
9.833	2.466	-.02473	-.10781	.57491	.74093	.02482	.29008	-.00112	.00088
9.797	4.354	-.02779	-.09868	.36604	.55238	.01579	.35121	-.00150	.00062
GRADIENT		-.00284	.00100	5.66359	-.09495	-.00438	.02700	-.00010	-.00004

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (DNH024) (21 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 244/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.827	-.163	-.01662	-.10882	-5.82977	1.03936	.03670	.22426	-.00126	.00090
14.725	2.499	-.02233	-.10653	.51199	.73058	.02526	.29205	-.00130	.00077
14.404	4.287	-.02833	-.11433	.37901	.64617	.01633	.35455	-.00165	.00076
GRADIENT		-.00259	-.00108	1.47172	-.09050	-.00456	.02899	-.00008	-.00003

RUN NO. 245/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.598	-.049	-.02060	-.10391	-22.87620	.98226	.03775	.22842	-.00146	.00085
29.897	2.432	-.02789	-.10629	.65724	.73161	.02652	.30405	-.00150	.00062
29.731	4.487	-.03348	-.10341	.42793	.57164	.01591	.38590	-.00168	.00063
GRADIENT		-.00284	.00007	5.28621	-.09089	-.00481	.03458	-.00005	-.00005

RUN NO. 246/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.528	-.131	-.02125	-.09970	-9.19757	.95638	.03959	.22249	-.00140	.00073
44.796	2.390	-.03248	-.09689	.77909	.67049	.02759	.30996	-.00162	.00065
44.981	4.445	-.03629	-.08862	.46835	.48992	.01622	.39947	-.00144	.00054
GRADIENT		-.00333	.00237	2.18118	-.10237	-.00510	.03853	-.00001	-.00004

RUN NO. 247/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.996	-.101	-.02348	-.10355	-13.06200	.98795	.03958	.22563	-.00159	.00071
50.084	2.534	-.03304	-.10365	.74722	.70703	.02694	.31734	-.00155	.00067
50.059	4.394	-.03447	-.09375	.44997	.52290	.01684	.39729	-.00140	.00043
GRADIENT		-.00253	.00203	3.15515	-.10367	-.00504	.03796	.00004	-.00006

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (DNH025)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.209	-.039	-.02082	-.12031	28.15880	.86433	.02346	.31896	-.00112	.00091
7.216	2.367	-.02238	-.10603	.54194	.59634	.01295	.39210	-.00117	.00062
7.326	4.353	-.03042	-.10502	.40075	.49282	.00418	.47129	-.00133	.00021
GRADIENT		-.00218	.00362	-6.58775	-.08693	-.00447	.03520	-.00005	-.00016

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.339	-.027	-.01829	-.11596	-34.19580	.82723	.02310	.32349	-.00139	-.00081
10.040	2.372	-.02145	-.10961	.51828	.61215	.01358	.39073	-.00127	-.00053
10.061	4.478	-.03288	-.10799	.42113	.50087	.00397	.48935	-.00116	-.00005
GRADIENT		-.00320	.00179	7.83983	-.07284	-.00424	.03661	.00005	-.00019

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.643	-.013	-.01852	-.11070	-54.03890	.78492	.02372	.32376	-.00158	-.00085
15.082	2.543	-.02390	-.10727	.53864	.58935	.01251	.40509	-.00168	-.00061
14.801	4.374	-.02446	-.09836	.32075	.46054	.00501	.48697	-.00119	-.00013
GRADIENT		-.00140	.00272	12.96060	-.07410	-.00427	.03686	.00008	-.00022

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.827	-.162	-.01960	-.11035	-6.88413	.79624	.02619	.31960	-.00154	.00078
30.228	2.450	-.02650	-.10450	.61987	.57813	.01449	.41122	-.00134	.00051
30.232	4.437	-.03055	-.09616	.39488	.44632	.00609	.51672	-.00103	-.00018
GRADIENT		-.00239	.00304	1.64858	-.07646	-.00438	.04246	.00011	-.00020

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.600	-.132	-.02289	-.10223	-9.85191	.73778	.02748	.31784	-.00145	.00077
45.018	2.364	-.03204	-.10427	.77675	.58252	.01524	.41620	-.00149	.00048
44.806	4.412	-.03429	-.10011	.44576	.46660	.00674	.53035	-.00088	-.00020
GRADIENT		-.00255	.00042	2.33763	-.05977	-.00458	.04650	.00012	-.00021

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (DNH025)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = -1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = .000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	8.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

PARAMETRIC DATA

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.233	-.01744	-.09676	-4.27924	.70952	.02856	.31279	-.00116	.00074
2.449	-.02803	-.10520	.65573	.58103	.01477	.42657	-.00136	.00042
4.339	-.03644	-.11097	.48166	.51783	.00691	.53362	-.00109	-.00004
GRADIENT	-.00414	-.00311	1.09482	-.04232	-.00476	.04790	.00001	-.00017

DZ
49.823
50.763
50.761

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (DNH027)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = .000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	8.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

PARAMETRIC DATA

RUN NO.   261/ 0   RN/L =   3.26   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.046	-.01681	-.11653	20.05070	.83516	.00723	.32271	-.00223	.00021
2.283	-.02325	-.12102	.58363	.68499	-.00383	.39580	-.00235	.00028
4.288	-.02083	-.10914	.27863	.51237	-.01385	.48404	-.00239	-.00064
GRADIENT	-.00098	.00167	-4.73831	-.07592	-.00497	.03793	-.00004	-.00020

DZ
7.310
7.309
7.865

RUN NO.   262/ 0   RN/L =   3.28   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.171	-.02014	-.12235	-6.70156	.88163	.00732	.32552	-.00229	.00037
2.437	-.01962	-.11126	.46137	.61936	-.00447	.40290	-.00210	.00003
4.384	-.02335	-.11356	.30547	.53245	-.01363	.48477	-.00252	-.00044
GRADIENT	-.00065	.00206	1.60490	-.07798	-.00459	.03467	-.00004	-.00017

DZ
9.835
9.901
9.652

RUN NO.   263/ 0   RN/L =   3.27   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.143	-.02337	-.11434	-9.28071	.81984	.00667	.32434	-.00260	-.00008
2.462	-.02474	-.11107	.57592	.61554	-.00511	.40662	-.00257	-.00035
4.479	-.02882	-.11595	.36907	.53535	-.01453	.50475	-.00242	-.00088
GRADIENT	-.00115	-.00027	2.16828	-.06235	-.00458	.03868	.00004	-.00017

DZ
14.936
14.990
15.447

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ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (DNH027)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = 5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = .000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 8.000   DX   = .000
SCALE =   .0125   DY   = .000   MACH   = .600

RUN NO. 264/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.711	-.161	-.02834	-.11546	-9.99059	.83374	.00879	.32450	-.00277	-.00005
29.841	2.529	-.02940	-.11449	.66612	.63153	-.00398	.41942	-.00250	-.00031
30.092	4.385	-.03050	-.11120	.39889	.51881	-.01277	.51981	-.00253	-.00082
GRADIENT		-.00047	.00090	2.40570	-.06971	-.00474	.04242	.00006	-.00019

RUN NO. 265/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.673	-.113	-.03278	-.10878	-16.17440	.78267	.00935	.32765	-.00267	-.00013
44.791	2.534	-.03643	-.11525	.82395	.63500	-.00367	.42886	-.00272	-.00025
44.852	4.379	-.03440	-.10459	.45049	.48893	-.01237	.53251	-.00239	-.00084
GRADIENT		-.00043	.00070	3.89001	-.06473	-.00484	.04510	.00006	-.00015

RUN NO. 266/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.205	-.137	-.03225	-.11579	-13.25630	.83308	.01043	.32082	-.00265	-.00008
50.115	2.437	-.03746	-.11531	.88102	.64198	-.00282	.42376	-.00263	-.00026
50.310	4.427	-.03580	-.11520	.46373	.53666	-.01232	.53965	-.00230	-.00088
GRADIENT		-.00084	.00013	3.12501	-.06539	-.00499	.04757	.00007	-.00021

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (DNH028)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = 5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = .000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 6.000   DX   = 10.000
SCALE =   .0125   DY   = .000   MACH   = .600

RUN NO. 281/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.140	2.450	-.02782	-.11208	.54808	.77724	.00923	.28077	-.00183	.00045
3.154	4.481	-.02861	-.12642	.36616	.70129	-.00064	.33888	-.00223	.00049
GRADIENT		-.00039	-.00709	-.13947	-.03757	-.00488	.02875	-.00020	.00002

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (DNH028)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8130 IN.	YMRP = .0000 IN. YO		
BREF = 926.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

BETA =	-5.00/ 5.00	STAB = .000	= 5.000
RUDDER =		ELEVON = .000	= .000
IORB =		DX = 6.000	= 10.000
DY =		MACH = .000	= .600

RUN NO. 282/ 0   RN/L =   3.28   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.424	2.022	-.02526	-.11428	.71587	.80635	.00883	.29052	-.00208	-.00044
7.204	4.410	-.02631	-.11343	.34213	.63461	-.00142	.34814	-.00246	-.00039
	GRADIENT	-.00044	.00035	-.15652	-.07193	-.00429	.02413	-.00016	-.00002

RUN NO. 283/ 0   RN/L =   3.28   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.851	2.058	-.02201	-.10749	.60993	.75603	.00853	.29383	-.00217	.00023
9.970	4.488	-.02315	-.11604	.29588	.64226	-.00206	.35572	-.00245	.00022
	GRADIENT	-.00047	-.00353	-.12981	-.04702	-.00438	.02558	-.00012	-.00000

RUN NO. 284/ 0   RN/L =   3.28   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.671	2.026	-.02188	-.11676	.61866	.82708	.00892	.29526	-.00231	.00023
14.337	4.481	-.01949	-.10932	.24945	.60938	.00131	.35548	-.00259	.00024
	GRADIENT	.00097	.00303	-.15039	-.08868	-.00416	.02453	-.00011	.00001

RUN NO. 285/ 0   RN/L =   3.29   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.878	2.180	-.03009	-.11357	.79114	.78798	.00921	.30855	-.00238	.00010
29.674	4.515	-.03186	-.11495	.40467	.63585	-.00185	.38429	-.00276	.00009
	GRADIENT	-.00076	-.00059	-.16549	-.06514	-.00473	.03243	-.00016	-.00000

RUN NO. 286/ 0   RN/L =   3.29   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.780	2.093	-.03422	-.10437	.93579	.73323	.01075	.30711	-.00233	-.00003
45.100	4.521	-.03663	-.11710	.46462	.64384	-.00186	.39971	-.00229	-.00006
	GRADIENT	-.00099	-.00524	-.19445	-.03681	-.00519	.03813	.00002	-.00001

RUN NO. 287/ 0   RN/L =   3.29   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
50.200	2.061	-.03561	-.11215	.99020	.79184	.01060	.31085	-.00239	.00006
50.258	4.539	-.03511	-.10755	.44362	.59229	-.00240	.40591	-.00244	-.00013
	GRADIENT	.00020	.00186	-.22054	-.08052	-.00524	.03836	-.00002	-.00008

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (DNHO29) (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.465	-.02502	-.11389	.58170	.63429	-.00397	.39264	-.00235	-.00019
4.442	-.02878	-.11296	.37160	.52553	-.01417	.47220	-.00296	-.00003
GRADIENT	.00190	.00047	-.10624	-.05500	-.00516	.04023	-.00031	-.00011

DZ 7.274 / 7.616

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.057	-.02401	-.10716	.66883	.60698	-.00355	.39438	-.00216	-.00012
4.486	-.02501	-.11457	.31970	.53198	-.01440	.48053	-.00277	-.00028
GRADIENT	-.00041	-.00305	-.14370	-.03087	-.00446	.03546	-.00025	-.00016

DZ 10.037 / 10.105

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.020	-.01983	-.11692	.56255	.66418	-.00349	.39790	-.00233	-.00009
4.412	-.02121	-.11088	.27569	.51875	-.01364	.48215	-.00262	-.00058
GRADIENT	-.00058	.00252	-.11990	-.06079	-.00424	.03522	-.00012	-.00021

DZ 15.073 / 14.864

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.128	-.02803	-.11207	.75465	.62962	-.00347	.41509	-.00250	-.00021
4.510	-.02957	-.11126	.37609	.51576	-.01309	.51674	-.00243	-.00087
GRADIENT	-.00065	.00034	-.15896	-.04781	-.00404	.04268	.00003	-.00028

DZ 30.231 / 29.953

RUN NO. 295/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.087	-.03479	-.11354	.95549	.64550	-.00169	.41269	-.00265	-.00016
4.446	-.03809	-.12021	.49137	.55913	-.01227	.53100	-.00224	-.00085
GRADIENT	-.00140	-.00283	-.19673	-.03661	-.00448	.05015	.00018	-.00029

DZ 44.559 / 45.001

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.027	-.03444	-.11315	.97390	.64654	-.00162	.41260	-.00216	-.00007
4.547	-.03375	-.11536	.42574	.53117	-.01289	.54130	-.00229	-.00060
GRADIENT	.00028	-.00088	-.21753	-.04578	-.00447	.05107	-.00005	-.00021

DZ 50.108 / 50.709

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (DNH030)   (21 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		.000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		.000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		8.000	DX = 20.000
SCALE = .0125			.000	MACH = .600

BETA =   RUDDER =   IORB =   DY =

RUN NO. 301/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	7.146	2.474	-.02651	-.11428	.61408	.63624	-.00321	.39110	-.00221	-.00041
	7.541	4.355	-.02875	-.11298	.37869	.52950	-.01311	.46246	-.00253	.00011
GRADIENT			-.00119	.00069	-.12521	-.05678	-.00526	.03796	-.00017	-.00016

RUN NO. 302/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	10.020	2.021	-.02499	-.11534	.70857	.65572	-.00313	.39403	-.00229	-.00033
	10.077	4.495	-.02706	-.10935	.34524	.50770	-.01404	.47316	-.00288	.00001
GRADIENT			-.00084	.00242	-.14686	-.05983	-.00441	.03199	-.00024	-.00014

RUN NO. 303/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	14.887	2.172	-.02278	-.11218	.60106	.62932	-.00344	.39892	-.00223	-.00021
	14.608	4.441	-.02442	-.10951	.31542	.51218	-.01353	.47637	-.00295	.00001
GRADIENT			-.00072	.00116	-.12592	-.05164	-.00445	.03414	-.00032	-.00010

RUN NO. 304/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	30.123	1.934	-.02643	-.11172	.78313	.63959	-.00186	.40107	-.00243	.00002
	29.781	4.549	-.02982	-.11666	.37597	.54039	-.01379	.51341	-.00233	-.00063
GRADIENT			-.00130	-.00189	-.15569	-.03793	-.00456	.04296	.00004	-.00025

RUN NO. 305/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	44.889	2.080	-.03388	-.11196	.93332	.63408	-.00250	.41581	-.00246	-.00024
	44.724	4.413	-.03469	-.11582	.45093	.54147	-.01205	.51412	-.00245	-.00066
GRADIENT			-.00035	-.00165	-.20679	-.03970	-.00409	.04214	.00001	-.00018

RUN NO. 306/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

	DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
	50.425	2.067	-.03405	-.10641	.94413	.50343	-.00201	.41492	-.00240	-.00006
	50.408	4.416	-.03800	-.11483	.49362	.53565	-.01284	.53282	-.00237	-.00075
GRADIENT			-.00168	-.00358	-.19182	-.02886	-.00461	.05020	.00001	-.00029

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (DNH031) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = 20.000	
DY = .000	MACH = .600	

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
2.440	-.02506	.58862	-.11848	.81921	.00959	.29153	-.00188	.00042
4.374	-.02510	.32910	-.12080	.67753	-.00029	.34904	-.00240	.00037
GRADIENT	-.00002	-.13415	-.00120	-.07324	-.00511	.02973	-.00027	-.00002

DZ: 7.139, 7.034

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
1.989	-.02412	.69479	-.11866	.84432	.00976	.29390	-.00199	.00036
4.549	-.02404	.30304	-.11577	.63820	-.00135	.35962	-.00242	.00035
GRADIENT	.00003	-.15301	.00113	-.08051	-.00434	.02567	-.00017	-.00000

DZ: 9.707, 9.890

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
1.961	-.02152	.62868	-.11919	.84748	.00991	.29682	-.00192	.00034
4.521	-.02343	.29706	-.11366	.62948	-.00148	.36353	-.00263	.00047
GRADIENT	.00075	-.12939	.00216	-.08506	-.00444	.02605	-.00028	.00005

DZ: 14.857, 14.654

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
1.982	-.03245	.93809	-.11754	.83690	.01061	.30401	-.00226	-.00015
4.262	-.02852	.38367	-.11253	.63688	-.00040	.37497	-.00230	-.00007
GRADIENT	.00173	-.24316	.00220	-.08772	-.00483	.03112	-.00001	-.00010

DZ: 29.665, 29.802

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
1.970	-.03314	.96397	-.11820	.84522	.01108	.30543	-.00213	.00006
4.370	-.03956	.51921	-.11536	.64588	-.00114	.39231	-.00257	.00000
GRADIENT	-.00267	-.18536	.00118	-.08307	-.00509	.03621	-.00018	-.00002

DZ: 44.676, 44.732

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	PHIC	BETAO	PHIO	CA	CN	CSL	CLN
2.003	-.03506	1.00299	-.10948	.77825	.01101	.30864	-.00220	.00006
4.371	-.03608	.47336	-.10926	.61233	-.00080	.39233	-.00251	-.00012
GRADIENT	-.00043	-.22363	.00009	-.07006	-.00499	.03534	-.00013	-.00007

DZ: 50.207, 50.098

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (DNHO32)   (21 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB = 6.000	DX = .000
SCALE = .0125			DY = 10.000	MACH = .600

RUN NO. 321/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.217	2.384	-.03589	-.08529	.86275	.59455	.00636	.28959	-.00443	-.00121
3.310	4.324	-.03078	-.06925	.40825	.38910	.00406	.34637	-.00729	-.00146
GRADIENT		.00263	.00827	-.23423	-.10588	-.00537	.02926	-.00148	-.00013

RUN NO. 322/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.247	1.999	-.03140	-.08867	.90034	.63058	.00701	.29558	-.00404	-.00076
7.563	4.379	-.01534	-.08216	.20086	.45887	-.00424	.35813	-.00614	-.00102
GRADIENT		.00675	.00274	-.29381	-.07212	-.00472	.02627	-.00088	-.00011

RUN NO. 323/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.032	1.980	-.02575	-.08306	.74527	.58939	.00787	.29427	-.00373	-.00061
9.896	4.367	-.00963	-.07727	.12651	.43300	-.00336	.35553	-.00591	-.00122
GRADIENT		.00675	.00242	-.25922	-.06552	-.00471	.02566	-.00091	-.00025

RUN NO. 324/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.217	2.049	-.01481	-.08945	.41438	.62806	.00777	.29966	-.00373	-.00056
15.047	4.248	-.00044	-.07449	.00590	.42100	-.00288	.36190	-.00554	-.00110
GRADIENT		.00654	.00680	-.18569	-.09413	-.00484	.02829	-.00082	-.00025

RUN NO. 325/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.998	1.976	-.00706	-.09627	.20473	.68540	.00973	.30380	-.00308	-.00020
29.890	4.301	.00614	-.08313	-.08191	.46823	-.00161	.37995	-.00423	-.00054
GRADIENT		.00568	.00565	-.12326	-.09339	-.00488	.03275	-.00049	-.00014

RUN NO. 326/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.648	1.958	-.01315	-.09255	.38496	.66315	.01078	.30480	-.00268	-.00031
44.989	4.525	-.00801	-.09105	.10617	.51062	-.00119	.39172	-.00344	-.00052
GRADIENT		.00217	.00063	-.11780	-.06445	-.00506	.03673	-.00032	-.00009

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (DNHO32)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO			
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	BETA =	.000	STAB = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	RUDDER =	.000	ELEVON = .000
SCALE =	.0125			IORB =	6.000	DX = .000
				DY =	10.000	MACH = .600

RUN NO. 327/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
DZ								
49.978	-.01805	-.09477	.52540	.67894	.01114	.30625	-.00278	-.00021
50.163	-.01263	-.09327	.16993	.52712	-.00086	.39453	-.00320	-.00046
GRADIENT	.00236	.00065	-.15489	-.06615	-.00523	.03847	-.00018	-.0001.1

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (DNHO33)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO			
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	BETA =	.000	STAB = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	RUDDER =	.000	ELEVON = .000
SCALE =	.0125			IORB =	8.000	DX = .000
				DY =	10.000	MACH = .600

RUN NO. 331/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
DZ								
7.500	-.02145	-.07366	.50255	.41024	-.00649	.40031	-.00542	-.00084
7.613	-.00208	-.07009	.02781	.32960	-.01622	.47746	-.00775	-.00075
GRADIENT	.01050	.00194	-.25727	-.04370	-.00528	.04181	-.00126	.00005

RUN NO. 332/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
DZ								
10.263	-.01773	-.07840	.53273	.44991	-.00459	.39392	-.00446	-.00071
9.859	-.00573	-.07059	-.07601	.33288	-.01534	.47883	-.00686	-.00087
GRADIENT	.00971	.00323	-.25205	-.04845	-.00445	.03516	-.00099	-.00007

RUN NO. 333/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
DZ								
15.012	-.00765	-.08521	.22675	.48908	-.00402	.39324	-.00429	-.00059
14.957	.01880	-.07346	.24911	.34564	-.01479	.48724	-.00603	-.00098
GRADIENT	.01105	.00491	-.19876	-.05992	-.00450	.03926	-.00073	-.00016

RUN NO. 334/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
DZ								
29.834	.00868	-.08245	-.25403	.47344	-.00294	.40329	-.00333	-.00035
29.957	.02584	-.07647	-.33975	.35859	-.01376	.51902	-.00378	-.00140
GRADIENT	.0071.4	.00249	-.03565	-.04777	-.00450	.04813	-.00019	-.00044

ARC 14-120(CA23B) 747/1 ATI 035) (ORBITER DATA)   (DNH033)   (21 OCT 75   )

REFERENCE DATA

					PARAMETRIC DATA			
SREF	=	2690.0000 SQ.FT.	XMRP	= 1109.0000 IN. XO	BETA = .000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	= .0000 IN. YO	RUDDER = .000	ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	= 375.0000 IN. ZO	IORB = 8.000	DX	=	.000
SCALE	=	.0125			DY = 10.000	MACH	=	.600

RUN NO. 335/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.871	-.00446	-.08594	.13655	.49825	-.00180	.40535	-.00300	-.00060
4.278	.00050	-.08435	-.00674	.39760	-.01272	.52535	-.00346	-.00105
GRADIENT	.00206	.00066	-.05955	-.04182	-.00454	.04987	-.00019	-.00019

DZ
44.819
45.000

RUN NO. 336/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
1.913	-.01351	-.09054	.40462	.52405	-.00171	.40478	-.00287	-.00044
4.260	-.00681	-.08550	.09174	.40359	-.01266	.52622	-.00322	-.00087
GRADIENT	.00285	.00215	-.13329	-.05132	-.00466	.05173	-.00015	-.00018

DZ
50.002
50.443

ARC 14-120(CA23B) 747/1 ATI 035) (ORBITER DATA)   (DNH034)   (21 OCT 75   )

REFERENCE DATA

					PARAMETRIC DATA			
SREF	=	2690.0000 SQ.FT.	XMRP	= 1109.0000 IN. XO	BETA = .000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	= .0000 IN. YO	RUDDER = .000	ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	= 375.0000 IN. ZO	IORB = 6.000	DX	=	.000
SCALE	=	.0125			DY = .000	MACH	=	.600

RUN NO. 341/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.031	-.04077	-.11284	-53.08770	1.09762	.01832	.21736	-.00189	-.00033
2.266	-.04009	-.11407	1.01357	.81035	.00793	.27606	-.00193	-.00031
4.259	-.04164	-.10998	.56061	.62495	-.00176	.33324	-.00235	-.00029
GRADIENT	-.00019	.00064	12.78561	-.11056	-.00468	.02698	-.00010	.00001

DZ
1.515
1.466
1.364

RUN NO. 342/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.127	-.03788	-.10795	-16.57080	1.02545	.01695	.22857	-.00200	-.00029
2.324	-.04051	-.10593	.99894	.74601	.00745	.27823	-.00212	-.00000
4.353	-.04091	-.10954	.53900	.61357	-.00267	.33940	-.00274	-.00009
GRADIENT	-.00069	-.00054	3.93383	-.09269	-.00436	.02458	-.00016	.00005

DZ
3.218
2.877
3.380

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (DNH034)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.400	-.285	-.03668	-.10742	-7.34571	1.04426	.01782	.22687	-.00231	-.00024
7.390	2.312	-.03617	-.10413	.89645	.72887	.00717	.28693	-.00234	-.00019
7.046	4.212	-.03508	-.10322	.47763	.58785	-.00208	.34154	-.00277	-.00014
GRADIENT		-.00035	.00095	1.82472	-.10268	-.00441	.02536	-.00010	.00002

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.858	-.243	-.03420	-.10667	-8.02130	1.03142	.01750	.22769	-.00247	-.00017
9.870	2.334	-.03433	-.10466	.84303	.73083	.00754	.28761	-.00239	-.00018
9.840	4.253	-.03249	-.09942	.43814	.56184	-.00270	.35076	-.00292	-.00021
GRADIENT		.00036	.00157	1.96825	-.10513	-.00446	.02715	-.00009	-.00001

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.745	-.254	-.03016	-.10281	-6.76144	.99812	.01841	.22551	-.00244	-.00031
14.663	2.332	-.03132	-.10222	.76959	.71547	.00771	.29080	-.00252	-.00024
14.715	4.248	-.02981	-.09946	.40248	.56279	-.00233	.35578	-.00280	-.00013
GRADIENT		.00005	.00071	1.66604	-.09741	-.00458	.02873	-.00008	.00004

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.743	-.267	-.03699	-.10822	-7.87449	1.05513	.02001	.22680	-.00277	-.00027
29.911	2.360	-.03686	-.10457	.89504	.72658	.00829	.30635	-.00265	-.00011
29.627	4.268	-.03291	-.09353	.44225	.52895	-.00200	.37699	-.00297	-.00050
GRADIENT		.00085	.00313	1.92536	-.11658	-.00483	.03294	-.00004	-.00004

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.607	-.235	-.03951	-.09929	-9.54070	.95563	.02039	.22556	-.00276	-.00052
44.784	2.345	-.03779	-.10021	.92333	.69784	.00919	.31082	-.00271	-.00032
44.631	4.291	-.03806	-.10475	.50863	.59033	-.00204	.39261	-.00259	-.00057
GRADIENT		.00034	.00116	2.31764	-.08403	-.00493	.03670	.00004	.00000

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (DNH034)   (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP =	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE	=	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 348/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.960	-.239	-.03498	-.10695	-8.32467	1.04302	.02123	.22182	-.00238	-.00040
50.084	2.361	-.03742	-.10326	.90826	.71885	.00898	.31376	-.00265	-.00022
50.051	4.269	-.03761	-.09959	.50525	.56278	-.00162	.39443	-.00279	-.00037
	GRADIENT	-.00060	.00162	2.05183	-.10759	-.00505	.03812	-.00009	.00001

RUN NO. 349/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
61.655	-.279	-.03495	-.09233	-7.14063	.90528	.02167	.22058	-.00230	-.00032
61.629	2.289	-.03743	-.10631	.93720	.74681	.00947	.31625	-.00256	-.00034
61.640	4.275	-.03481	-.09504	.46705	.53658	-.00155	.40185	-.00225	-.00044
	GRADIENT	-.00002	-.00083	1.74123	-.08005	-.00508	.03969	.00000	-.00002

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (DNH035)   (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP =	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE	=	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 351/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.392	.007	-.03028	-.11846	76.95740	1.69880	.02791	.11669	-.00205	.00004
3.273	2.270	-.02773	-.12457	.70017	1.16320	.01995	.17736	-.00193	.00008
3.233	4.244	-.02798	-.11301	.37812	.79606	.01092	.23903	-.00197	.00012
	GRADIENT	.00056	.00119	-18.45311	-.21364	-.00400	.02882	.00002	.00002

RUN NO. 352/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.633	-.212	-.03062	-.11798	-8.22679	1.58804	.02803	.12585	-.00217	.00013
7.582	2.387	-.02923	-.11905	.70182	1.08391	.01905	.18918	-.00200	.00021
7.362	4.282	-.02756	-.11699	.36910	.81823	.01080	.24729	-.00208	.00006
	GRADIENT	.00067	.00018	2.00402	-.19589	-.00381	.02687	.00002	.00001

ARC I4-I20(CA23B)　747/I ATI 035I (ORBITER DATA)　　(DNHO35)　(21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

PARAMETRIC DATA

RUN NO. 353/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.664	-.213	-.02937	-.12461	-7.85370	1.80764	.02812	.12631	-.00211	-.00018
9.916	2.313	-.02941	-.12008	.72877	1.10894	.01906	.19503	-.00213	-.00033
9.803	4.259	-.02743	-.12130	.36932	.85163	.01041	.25470	-.00221	-.00023
GRADIENT		.00041	.00079	1.91436	-.21682	-.00394	.02864	-.00002	.00001

RUN NO. 354/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.113	-.270	-.02868	-.11769	-6.07208	1.70827	.02863	.12974	-.00239	-.00014
14.808	2.324	-.02760	-.11866	.68053	1.09587	.01974	.19909	-.00232	-.00001
14.693	4.304	-.02537	-.11239	.33796	.78558	.01058	.26210	-.00213	-.00022
GRADIENT		.00071	.00108	1.46207	-.20305	-.00392	.02883	.00006	.00001

RUN NO. 355/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.891	-.272	-.03499	-.11983	-7.33018	1.75519	.03010	.12774	-.00236	-.00000
29.979	2.346	-.03719	-.11686	.90855	1.07113	.02080	.21261	-.00230	-.00012
29.891	4.294	-.03471	-.11535	.46363	.80534	.01135	.28212	-.00229	-.00005
GRADIENT		.00001	.00099	1.78730	-.21102	-.00408	.03374	.00002	-.00001

RUN NO. 356/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.449	-.271	-.03778	-.11801	-7.92866	1.75263	.03086	.12916	-.00228	-.00022
44.799	2.322	-.03663	-.11132	.90396	1.02451	.02199	.21693	-.00233	-.00018
44.865	4.260	-.03708	-.10619	.49913	.74408	.01184	.29423	-.00251	-.00022
GRADIENT		.00017	.00261	1.94455	-.22576	-.00416	.03629	-.00005	-.00000

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (DNH036)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 361/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.302	-.18193	1.654	-.13030	4.52066	.91938	.00882	.28028	-.00230	-.00033
4.194	-.18847	2.469	-.12992	2.57555	.73367	-.00094	.33987	-.00275	-.00011
GRADIENT	-.00346		.00020	-1.02807	-.09815	-.00516	.03150	-.00024	.00011

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.012	-.18082	2.877	-.12648	5.13611	.90360	.00901	.28306	-.00227	-.00023
4.405	-.18854	3.365	-.12935	2.45340	.72225	-.00177	.34559	-.00267	-.00004
GRADIENT	-.00322		-.00120	-1.12130	-.07580	-.00451	.02614	-.00017	.00011

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.013	-.18941	7.393	-.13656	5.37556	.96700	.00806	.29499	-.00248	-.00015
4.376	-.19125	7.226	-.13052	2.50473	.73206	-.00205	.35412	-.00297	-.00006
GRADIENT	-.00078		.00255	-1.21489	-.09942	-.00428	.02502	-.00021	.00004

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.049	-.19109	9.858	-.13563	5.32907	.95756	.00840	.29541	-.00240	-.00027
4.457	-.19254	10.104	-.12677	2.47594	.70225	-.00272	.36310	-.00285	-.00006
GRADIENT	-.00060		.00368	-1.18471	-.10601	-.00462	.02810	-.00019	-.00014

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.097	-.19291	14.553	-.13410	5.25682	.94518	.00883	.29921	-.00239	-.00013
4.474	-.19407	14.643	-.12353	2.48618	.68639	-.00257	.37029	-.00293	-.00000
GRADIENT	-.00049		.00445	-1.16554	-.10887	-.00479	.02990	-.00023	-.00006

RUN NO. 366/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	DZ	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.159	-.20804	29.819	-.12852	5.50419	.89724	.00878	.31541	-.00268	-.00003
4.411	-.20777	29.992	-.12151	2.59968	.67676	-.00197	.39221	-.00306	-.00008
GRADIENT	.00012		.00312	-1.24576	-.09794	-.00478	.03411	-.00017	-.00002

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA) (DNH036) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

.000	STAB =	5.000	
10.000	ELEVON =	.040	
6.000	DX =	.000	
.000	MACH =	.600	

BETA =   RUDDER =   IORB =   DY =

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	DZ	PHIC	PHIO	CA	CN	CSL	CLN
2.052	-.21159	-.12790	45.057	5.88810	.90037	.01093	.31399	-.00254	-.00007
4.371	-.21604	-.12616	44.937	2.83211	.70425	-.00126	.40248	-.00279	-.00014
GRADIENT	-.00192	.00075		-1.31772	-.08456	-.00526	.03815	-.00011	-.00003

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	DZ	PHIC	PHIO	CA	CN	CSL	CLN
2.015	-.21146	-.12804	50.129	5.99192	.91029	.01182	.30944	-.00239	.00005
4.439	-.21307	-.12437	50.420	2.75051	.69045	-.00173	.41281	-.00281	.00040
GRADIENT	-.00066	.00151		-1.33703	-.09068	-.00559	.04264	-.00018	-.00019

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	DZ	PHIC	PHIO	CA	CN	CSL	CLN
2.140	-.21075	-.12489	62.057	5.62690	.87077	.01022	.32531	-.00254	.00010
4.416	-.21097	-.12303	61.853	2.73775	.68473	-.00091	.41171	-.00268	-.00014
GRADIENT	-.00010	.00082		-1.26898	-.08171	-.00489	.03795	-.00006	-.00011

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA) (DNH037) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

.000	STAB =	-1.000	
.000	ELEVON =	.000	
6.000	DX =	.000	
.000	MACH =	.600	

BETA =   RUDDER =   IORB =   DY =

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	DZ	PHIC	PHIO	CA	CN	CSL	CLN
.521	-.02268	-.12383	1.955	2.49361	1.12166	.01641	.23025	-.00187	-.00002
2.297	-.02549	-.11879	1.879	.63611	.82874	.00769	.28159	-.00218	-.00016
4.335	-.02949	-.11948	1.932	.39023	.67006	-.00214	.33857	-.00235	-.00012
GRADIENT	-.00179	.00110		-.54099	-.11742	-.00486	.02839	-.00013	-.00002

ARC 14-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)　　　　(DNH037)　(21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 372/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.611	-.073	-.02496	-.13684	-18.87120	1.27886	.01712	.23251	-.00205	.00037
3.412	2.415	-.02272	-.12938	.53920	.89499	.00741	.28209	-.00217	.00003
3.341	4.372	-.03116	-.13064	.40870	.73005	-.00248	.34090	-.00240	.00019
	GRADIENT	-.00129	.00147	4.49081	-.12483	-.00439	.02419	-.00008	-.00004

RUN NO. 373/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.238	-.184	-.01792	-.12654	-5.57095	1.21514	.01778	.22811	-.00226	.00012
7.611	2.515	-.02420	-.13121	.55136	.89448	.00637	.29331	-.00244	.00028
7.497	4.363	-.02543	-.11746	.33426	.65536	-.00320	.35332	-.00295	-.00003
	GRADIENT	-.00170	.00173	1.36990	-.12281	-.00459	.02729	-.00015	-.00003

RUN NO. 374/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.003	-.096	-.01856	-.12574	-10.99320	1.18499	.01726	.23395	-.00223	.00003
9.942	2.401	-.01770	-.12665	.42264	.87619	.00737	.28841	-.00233	.00010
10.030	4.474	-.02513	-.12354	.32219	.68248	-.00375	.36099	-.00294	.00003
	GRADIENT	-.00138	.00045	2.54688	-.11044	-.00458	.02760	-.00015	.00000

RUN NO. 375/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.990	.036	-.01580	-.12958	23.75730	1.19552	.01707	.23914	-.00232	.00013
14.729	2.374	-.01943	-.12262	.46896	.85170	.00808	.29019	-.00247	.00011
14.795	4.458	-.02101	-.11862	.27023	.65750	-.00322	.36453	-.00283	-.00026
	GRADIENT	-.00119	.00249	-5.40509	-.12218	-.00457	.02822	-.00011	-.00009

RUN NO. 376/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.795	-.037	-.02028	-.12596	-29.04110	1.19126	.01904	.23664	-.00248	.00003
29.929	2.359	-.02769	-.12652	.67263	.87782	.00903	.30330	-.00249	.00009
30.138	4.506	-.02850	-.12061	.36271	.66310	-.00319	.39284	-.00265	-.00018
	GRADIENT	-.00183	.00137	6.58687	-.11655	-.00488	.03426	-.00004	-.00005

ARC 14- (CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (DNH037)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.096	45.027	-.02459	-.12014	-14.48000	1.13302	.02092	.22591	-.00258	-.00014
2.497	44.952	-.02998	-.12302	.68807	.83991	.00852	.31944	-.00264	.00000
4.260	44.914	-.03340	-.12386	.44955	.69755	-.00160	.39672	-.00266	-.00031
GRADIENT		-.00200	-.00087	3.60822	-.10094	-.00514	.03898	-.00002	-.00003

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.036	50.481	-.02125	-.11717	30.86850	1.08333	.01961	.24173	-.00247	-.00011
2.316	50.592	-.03099	-.12711	.76690	.88282	.00988	.31386	-.00239	-.00008
4.524	50.369	-.03501	-.11877	.44383	.65317	-.00267	.41024	-.00250	-.00056
GRADIENT		-.00307	-.00038	-6.81333	-.09579	-.00496	.03751	-.00001	-.00010

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.013	61.632	-.02570	-.12245	-62.78220	1.15102	.02077	.23641	-.00246	-.00033
2.379	61.965	-.02957	-.12133	.71238	.83841	.00997	.31800	-.00252	-.00016
4.408	61.651	-.03202	-.11829	.41654	.65927	.00164	.40891	-.00250	-.00042
GRADIENT		-.00143	.00093	14.65652	-.11180	-.00505	.03887	-.00001	-.00002

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (DNH038)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
.046	1.603	-.03585	-.12129	37.71810	1.16331	.01987	.31545	-.00078	.00092
2.293	1.569	-.03898	-.12271	.97421	.86754	.00905	.37602	-.00087	.00083
4.387	2.306	-.04440	-.12060	.58044	.66987	-.00213	.44420	-.00136	.00094
GRADIENT		-.00196	.00015	-8.65058	-.11390	-.00507	.02963	-.00013	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (DNH038)   (21 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 382/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.468	.019	-.04292	-.12442	65.58800	1.15052	.01664	.33169	-.00082	.00109
3.699	2.422	-.04300	-.12381	1.01754	.85131	.00689	.38430	-.00096	.00116
3.469	4.425	-.04540	-.12016	.58844	.66722	-.00258	.44793	-.00132	.00123
GRADIENT		-.00055	-.00094	-15.15230	-.11019	-.00435	.02624	-.00011	.00003

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.736	-.027	-.03671	-.11960	-53.27060	1.10916	.01714	.33495	-.00100	.00119
6.902	2.422	-.04018	-.12460	.95082	.86612	.00726	.38780	-.00118	.00141
7.339	4.419	-.04382	-.12334	.56875	.68592	-.00340	.46216	-.00162	.00138
GRADIENT		-.00159	-.00089	12.48313	-.09535	-.00460	.02835	-.00014	.00005

RUN NO. 384/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
10.309	.047	-.03699	-.12375	38.45710	1.13445	.01738	.33740	-.00109	.00134
9.703	2.409	-.03787	-.12099	.90067	.83805	.00758	.39319	-.00126	.00146
10.031	4.489	-.04151	-.11816	.53038	.65168	-.00349	.46655	-.00150	.00142
GRADIENT		-.00100	-.00126	-8.70301	-.10905	-.00469	.02895	-.00009	.00002

RUN NO. 385/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
15.037	-.141	-.03593	-.11641	-14.34110	1.10172	.01938	.32545	-.00119	.00135
14.855	2.495	-.03772	-.12284	.86659	.84153	.00737	.40069	-.00136	.00152
14.876	4.418	-.03729	-.12257	.48407	.68098	-.00278	.47285	-.00148	.00157
GRADIENT		-.00032	-.00142	3.40255	-.09268	-.00484	.03211	-.00006	.00005

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
30.004	-.165	-.03289	-.12310	-11.30050	1.17505	.02016	.33197	-.00131	.00129
29.816	2.497	-.03586	-.11997	.82081	.82315	.00824	.41344	-.00134	.00134
30.280	4.402	-.03419	-.11822	.44541	.65455	-.00163	.49030	-.00149	.00152
GRADIENT		-.00034	.00108	2.69869	-.11518	-.00475	.03441	-.00004	.00005

ARC 14-120(CA23B)　747/1 AT1 03S1 (ORBITER DATA)　　(DNH038)　(21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 387/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
44.879	.070	-.03347	-.12025	25.58280	1.11116	.02056	.33601	-.00125	-.00126
44.946	2.481	-.03546	-.12293	.81918	.83934	.00949	.41630	-.00138	-.00145
44.926	4.448	-.03751	-.11277	.48369	.62394	-.00176	.50528	-.00150	-.00121
GRADIENT		-.00092	.00160	-5.90136	-.11134	-.00508	.03847	-.00006	-.00001

RUN NO. 388/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
49.971	-.037	-.03541	-.12247	-44.04270	1.15620	.02136	.33056	-.00147	-.00100
50.192	2.513	-.03630	-.12127	.82787	.82743	.00899	.42260	-.00146	-.00131
50.609	4.284	-.03528	-.12302	.47228	.68898	-.00071	.50396	-.00147	-.00138
GRADIENT		.00000	-.00009	10.81298	-.10959	-.00509	.03985	-.00000	.00009

RUN NO. 389/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
61.515	-.115	-.03365	-.12518	-16.33250	1.19977	.02313	.31855	-.00143	-.00122
60.520	2.529	-.03464	-.12084	.78499	.83717	.01025	.41635	-.00143	-.00137
GRADIENT		-.00038	.00164	6.47423	-.13714	-.00487	.03699	-.00000	-.00006

ARC 14-120(CA23B)　747/1 AT1 02S1 (ORBITER DATA)　　(DNH039)　(08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 391/ 0　RN/L = 3.36　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.148	2.388	-.18785	-.12482	4.49942	.87245	.02786	.37026	-.00057	-.00125
3.390	4.263	-.18878	-.11294	2.53815	.63710	.01854	.43525	-.00096	-.00094
GRADIENT		-.03050	.00634	-1.04614	-.12554	-.00497	.03467	-.00021	-.00017

DATE 2 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH039) (08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	10.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.139	-.19944	-.13097	5.32723	.91607	.02778	.38048	-.00077	.00136
4.461	-.20873	-.12354	2.68162	.68560	.01714	.45416	-.00146	.00112
GRADIENT	-.00400	.00320	-1.13959	-.09928	-.00458	.03174	-.00030	-.00010
DZ
7.312
7.376

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.001	-.20379	-.12519	5.81649	.88852	.02852	.37986	-.00084	.00129
4.424	-.21043	-.12231	2.72628	.67971	.01834	.44859	-.00120	.00108
GRADIENT	-.00274	.00119	-1.27561	-.08619	-.00420	.02837	-.00015	-.00009
DZ
9.885
10.083

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.141	-.21222	-.12298	5.66248	.85717	.02850	.38690	-.00085	.00124
4.433	-.21434	-.12295	2.77127	.68384	.01851	.45644	-.00129	.00110
GRADIENT	-.00093	.00001	-1.26160	-.07564	-.00436	.03034	-.00019	-.00006
DZ
15.083
14.830

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.045	-.22127	-.12536	6.17644	.88750	.03061	.38901	-.00105	.00117
4.494	-.22565	-.12372	2.87720	.68440	.01832	.48706	-.00143	.00096
GRADIENT	-.00179	.00067	-1.34699	-.08292	-.00502	.04003	-.00015	-.00009
DZ
29.781
29.790

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.160	-.22269	-.12330	5.88804	.86363	.03076	.39969	-.00119	.00113
4.367	-.22356	-.12144	2.93447	.67831	.01987	.48848	-.00146	.00100
GRADIENT	-.00044	.00084	-1.33798	-.08395	-.00493	.04022	-.00012	-.00006
DZ
44.565
44.873

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.123	-.22107	-.12019	5.94619	.84223	.03103	.39977	-.00108	.00110
4.396	-.22250	-.11875	2.90042	.65977	.01974	.49435	-.00129	.00086
GRADIENT	-.00063	.00063	-1.34005	-.08027	-.00497	.04161	-.00009	-.00011
DZ
50.286
50.569

ARC 14-120(CA23B)   747/1 AT1 O2S1   (ORBITER DATA)   (DNH040)   (08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125					

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
1ORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 401/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
3.048	-.004	-.04526	-.12383	-84.40830	1.79753	.04895	.19606	-.00048	.00139
3.021	2.318	-.04739	-.12449	1.17152	1.15912	.03978	.26142	-.00047	.00126
3.274	4.401	-.04833	-.12570	.62992	.86840	.03000	.32427	-.00049	.00128
GRADIENT		-.00070	-.00042	19.64100	-.21215	-.00429	.02909	-.00000	-.00003

RUN NO. 402/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
7.066	-.091	-.04561	-.12340	-26.59500	1.74014	.04896	.20851	-.00079	.00128
7.198	2.490	-.04595	-.12280	1.05741	1.10813	.03979	.26983	-.00358	.00123
7.335	4.405	-.04855	-.12015	.63211	.82845	.03019	.32955	-.00055	.00119
GRADIENT		-.00062	.00070	6.31765	-.20513	-.00414	.02674	.00006	-.00002

RUN NO. 403/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
9.793	.024	-.04725	-.12556	63.05230	1.71279	.04873	.21444	-.00082	.00143
9.766	2.449	-.04658	-.12467	1.09000	1.12877	.03992	.27469	-.00068	.00133
9.745	4.293	-.04791	-.12001	.63994	.83988	.03098	.33049	-.00070	.00123
GRADIENT		-.00013	.00125	-15.17967	-.20634	-.00413	.02706	.00003	-.00005

RUN NO. 404/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
14.781	-.155	-.04369	-.12009	-15.70640	1.70846	.05030	.20418	-.00104	.00132
14.685	2.568	-.04618	-.11619	1.03042	1.03612	.03988	.28291	-.00067	.00119
14.592	4.303	-.04516	-.11327	.60193	.79139	.03118	.33940	-.00063	.00111
GRADIENT		-.00038	.00152	3.87923	-.20936	-.00425	.03020	.00010	-.00005

RUN NO. 405/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
29.804	-.120	-.03979	-.11880	-18.37600	1.68114	.05177	.20525	-.00126	.00128
29.944	2.563	-.03976	-.12496	.88899	1.10861	.04114	.29642	-.00098	.00128
29.835	4.329	-.03620	-.11079	.47959	.76992	.03249	.35640	-.00076	.00110
GRADIENT		.00074	.00147	4.47929	-.20554	-.00430	.03398	.00011	-.00004

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH040) (08 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO	BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO	IORB	=	4.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RUN NO. 406/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
-.091	-.03758	-.12018	-22.46140	1.70509	.05277	.20535	-.00114	.00125
2.446	-.03906	-.11965	.91512	1.08198	.04299	.29631	-.00091	.00117
4.476	-.03830	-.11246	.49076	.77014	.03167	.37999	-.00092	.00112
GRADIENT	-.00018	.00163	5.19729	-.20639	-.00459	.03814	.00005	-.00003

DZ
44.515
44.728
44.671

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (DNH041) (08 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO	BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO	IORB	=	4.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.500

RUN NO. 411/ 0 RN/L = 2.97 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.137	-.03541	-.09515	.94918	.88790	.04034	.25483	-.00038	.00126
4.298	-.03664	-.09550	.48885	.65669	.03070	.31655	-.00036	.00113
GRADIENT	-.00057	-.00016	-.21302	-.10237	-.00446	.02856	.00001	-.00006

DZ
3.328
3.325

RUN NO. 412/ 0 RN/L = 2.96 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.085	-.03560	-.09548	.97846	.89942	.04094	.26199	-.00073	.00116
4.439	-.03628	-.09540	.46870	.65598	.03067	.32564	-.00048	.00110
GRADIENT	-.00029	.00003	-.21656	-.10342	-.00436	.02704	.00011	-.00002

DZ
6.838
7.184

RUN NO. 413/ 0 RN/L = 2.98 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	BETAC	BETAO	PHIC	PHIO	CA	CN	CSL	CLN
2.218	-.03337	-.09512	.85236	.86976	.04051	.26826	-.00046	.00104
4.469	-.03503	-.09551	.44953	.65318	.03065	.33116	-.00054	.00111
GRADIENT	.00074	-.00018	-.18334	-.09618	-.00438	.02793	-.00003	.00003

DZ
9.770
9.780

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (DNH041)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.5800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .500

RUN NO. 414/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	DZ	PHIC	PHIO	BETAO	BETAC	CA	CN	CSL	CLN
	1.986	14.789	.99901	.94498	-.09972	-.03463	.04187	.26890	-.00090	.00114
	4.441	14.819	.44801	.69804	-.10173	-.03469	.03088	.34091	-.00078	.00109
GRADIENT			-.22448	-.10060	-.00082	-.00003	-.00448	.02934	.00005	-.00002

RUN NO. 415/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	DZ	PHIC	PHIO	BETAO	BETAC	CA	CN	CSL	CLN
	2.215	29.638	.82645	.89338	-.09737	-.03194	.04230	.28736	-.00093	.00112
	4.415	29.826	.41654	.66870	-.09720	-.03206	.03130	.36064	-.00086	.00110
GRADIENT			-.18633	-.10214	.00008	-.00006	-.00500	.03331	.00003	-.00001

RUN NO. 416/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	DZ	PHIC	PHIO	BETAO	BETAC	CA	CN	CSL	CLN
	2.214	44.438	.76327	.89411	-.09702	-.02950	.04284	.29440	-.00092	.00102
	4.330	44.694	.42333	.64395	-.09264	-.03196	.03206	.37302	-.00075	.00103
GRADIENT			-.16070	-.11826	.00207	-.00117	-.00509	.03716	.00008	.00001

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (DNH042)   (08 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.5800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .300

RUN NO. 421/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	DZ	PHIC	PHIO	BETAO	BETAC	CA	CN	CSL	CLN
	2.209	3.128	.43017	.98557	-.10574	-.01658	.04183	.25803	-.00035	.00077
	4.221	3.123	.23072	.73034	-.10352	-.01698	.03305	.31937	-.00038	.00072
GRADIENT			-.09912	-.12683	.00110	-.00020	-.00436	.03049	-.00002	-.00002

RUN NO. 422/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	DZ	PHIC	PHIO	BETAO	BETAC	CA	CN	CSL	CLN
	2.291	7.085	.39307	.92205	-.10101	-.01571	.04131	.27414	-.00033	.00059
	4.347	7.303	.23609	.71971	-.10423	-.01790	.03207	.33612	-.00028	.00082
GRADIENT			-.07635	-.09841	-.00157	-.00106	-.00449	.03015	.00002	.00011

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

                    ARC 14-120(CA238) 747/1 ATI 0251 (ORBITER DATA)

                                                              (DNH042)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = 5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   4.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .300

RUN NO. 423/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 2.180   -.01697   -.10209   .44607   .95456   .04246   .26730 -.00071   .00045
 4.347   -.01622   -.09942   .21396   .68472   .03248   .34016 -.00034   .00049
GRADIENT .00035   .00123 -.10711 -.12452 -.00460   .03362 -.00017   .00002
DZ
 9.285
 9.970

RUN NO. 424/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 2.266   -.01640   -.10326   .41472   .94742   .04279   .27815 -.00051   .00061
 4.354   -.01712   -.10167   .22551   .70320   .03228   .35024 -.00075   .00064
GRADIENT -.00035   .00077 -.09063 -.11698 -.00503   .03453 -.00012   .00002
DZ
14.488
14.575

RUN NO. 425/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 2.191   -.01582   -.10294   .41379   .95078   .04430   .28810 -.00089   .00062
 4.292   -.01592   -.10150   .21265   .70620   .03316   .36816 -.00074   .00053
GRADIENT -.00004   .00068 -.09574 -.11641 -.00530   .03810 -.00007   -.00004
DZ
29.804
29.724

RUN NO. 426/ 0   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   BETAC   BETAO   PHIC   PHIO   CA   CN   CSL   CLN
 2.202   -.01510   -.09798   .39313   .90420   .04478   .29494 -.00065   .00058
 4.266   -.01442   -.09990   .19389   .69668   .03343   .37452 -.00042   .00044
GRADIENT .00033   .00093 -.09653 -.10054 -.00550   .03856   .00011   -.00007
DZ
44.766
44.688

ARC 14-120(CA23B) 02S1

(DNH043) (09 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA = .000   ELEVON = 5.000

RUN NO. 431/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
2.284	4.518	.00619	-.07861	.05098	.24640	-.00160	.00104
2.235	6.328	-.00108	-.00976	.04153	.33729	-.00155	.00105
1.862	8.269	.00449	-.03124	.02942	.43339	-.00153	.00101
2.534	10.303	.00597	-.03339	.01751	.55160	-.00174	.00099
2.332	12.406	.00721	-.03358	.01316	.67531	-.00108	.00044
2.211	14.397	-.00092	.00371	.01836	.78307	-.00256	.00088
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 432/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
17.824	-.729	-.00485	-.38120	.06225	-.01156	-.00163	.00108
20.582	4.597	-.00360	.04497	.05087	.24719	-.00127	.00122
20.432	6.440	-.00396	.03532	.04142	.33800	-.00127	.00122
20.388	8.441	-.00271	.01845	.02853	.44119	-.00142	.00110
20.672	10.411	.00160	-.00883	.01709	.55656	-.00169	.00096
20.407	12.376	-.00326	.01521	.01226	.67729	-.00106	.00071
20.474	14.347	-.00380	-.01533	.01804	.78068	-.00236	.00089
GRADIENT		.00023	.08003	-.00214	.04859	.00007	.00003

RUN NO. 433/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
37.645	-.608	-.00168	-.15813	.06233	-.00857	-.00140	.00109
40.709	4.480	-.00898	-.11499	.05188	.23600	-.00111	.00121
40.387	6.499	-.00326	.02882	.04159	.33673	-.00112	.00118
40.324	8.438	.00031	.00213	.02969	.43290	-.00125	.00104
40.462	10.448	-.00269	.01482	.01719	.55217	-.00130	.00088
40.577	12.427	-.00046	-.00214	.01137	.67306	-.00077	.00064
40.395	14.433	-.00057	-.00269	.01776	.77856	.00231	.00085
GRADIENT		-.00144	.05368	-.00205	.04807	.00006	.00002

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   03S1   (DNH044)   (09 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA =   .000   ELEVON =   5.000

RUN NO. 441/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
60.484	6.381	-.00679	.06106	.02180	.34342	-.00108	.00119
60.085	8.325	-.00701	.04841	.01019	.43677	-.00139	.00119
60.673	10.419	.00014	-.00076	-.00352	.56041	-.00121	.00127
60.708	12.411	-.00654	.03043	-.01002	.68140	-.00061	.00108
57.099	14.003	-.00452	.01867	-.00600	.76258	-.00129	.00151
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   03S1   (DNH045)   (09 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA =   .000   ELEVON =   .000

RUN NO. 451/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
2.231	4.557	.03857	-.48542	.02808	.16673	-.00254	-.00028
2.483	6.357	.03400	-.30705	.01875	.25913	-.00257	-.00014
2.239	8.320	.03805	-.26297	-.00735	.34780	-.00235	-.00013
1.921	10.373	.04111	-.22831	-.00612	.45791	-.00299	-.00053
2.551	12.477	.03678	-.17021	-.01122	.58988	-.00271	-.00033
2.114	14.400	.03692	-.14844	-.01041	.69366	-.00252	-.00008
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 452/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
17.573	-.792	.03262	2.35875	.03625	-.08652	-.00238	-.00065
20.373	4.401	.02005	-.26128	.02862	.16107	-.00256	-.00011
20.172	6.464	.01588	-.14105	.01841	.26564	-.00213	-.00014
20.312	8.466	.03021	-.20523	.00572	.36075	-.00240	-.00023
20.516	10.508	.03787	-.18572	-.00674	.46837	-.00288	-.00023
20.332	12.332	.03109	-.14556	-.01115	.58577	-.00235	-.00031
GRADIENT		-.00242	-.50456	-.00147	.04768	-.00004	.00011

ORIGINAL PAGE IS OF POOR QUALITY

ARC 14-120(CA23B) 03S1

REFERENCE DATA

SREF = 2690.0000 SQ.FT.　XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.　　　YMRP = .0000 IN. YO
BREF = 936.6800 IN.　　　ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA = .000　ELEVON = .000

RUN NO. 453/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
37.990	-.738	.02004	1.55562	.03619	-.08870	-.00241	-.00045
40.220	4.411	.02127	-.27658	.02920	.15554	-.00245	-.00019
39.923	6.397	.02454	-.22022	.01954	.25704	-.00213	-.00010
40.358	8.474	.02362	-.16026	.00723	.35135	-.00211	-.00017
40.425	10.464	.02610	-.14372	-.00564	.45887	-.00277	-.00032
40.404	12.438	.03064	-.14228	-.01013	.58455	-.00270	-.00075
40.396	14.487	.02059	-.08231	-.00916	.69354	-.00227	-.00027
GRADIENT		.00024	-.35581	-.00136	.04743	-.00001	-.00005

ARC 14-120(CA23B) 02S1

REFERENCE DATA

SREF = 2690.0000 SQ.FT.　XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.　　　YMRP = .0000 IN. YO
BREF = 936.6800 IN.　　　ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA = .000　ELEVON = .000

RUN NO. 461/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN
38.822	-.234	-.08008	-18.92550	.05764	-.08068	-.00193	.00082
40.088	2.253	-.08379	2.13035	.05492	.03775	-.00173	.00090
40.254	4.484	-.08304	1.06202	.04801	.15055	-.00157	.00097
40.159	6.430	-.08576	.76578	.03822	.24953	-.00178	.00094
40.206	8.402	-.07712	.52783	.02606	.34318	-.00140	.00082
40.248	10.328	-.07454	.41575	.01452	.44266	-.00158	.00056
40.591	12.418	-.07771	.36136	.00995	.57563	-.00151	.00038
39.934	14.328	-.07098	.28683	.01380	.67595	-.00204	.00060
GRADIENT		-.00064	4.31743	-.00202	.04899	.00008	.00003

ARC 14-120(CA238)   O2S1   (DNH047)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA   =   .000   ELEVON =   .000
DZ   = 50.000

RUN NO. 471/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
-.046	6.055	-.09231	.87503	.04059	.22831	-.00130	.00102	49.63740
.212	10.519	-.08057	.44132	.01318	.45821	-.00172	.00051	50.29570
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 472/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
4.734	5.995	-.07507	.71879	.04062	.22821	-.00144	.00075	48.86470
5.194	10.412	-.07687	.42532	.01426	.44510	-.00192	.00056	50.29140
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 473/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
9.687	5.974	-.08606	.82679	.04087	.22592	-.00144	.00094	49.00850
10.187	10.420	-.08502	.47009	.01449	.44271	-.00157	.00063	50.75890
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 474/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
14.701	5.891	-.08252	.80403	.04162	.21560	-.00167	.00086	48.93470
15.158	10.503	-.07754	.42535	.01367	.45266	-.00185	.00057	50.66530
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 475/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
19.661	5.884	-.08604	.83920	.04169	.21578	-.00164	.00097	49.39420
20.118	10.481	-.07504	.41249	.01327	.45317	-.00153	.00043	51.00510
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) O2SI

(DNH048) (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETA = .000   ELEVON = .000
DZ = 3.000

RUN NO. 481/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
-.066	6.062	-.07543	.71421	.04020	.22954	-.00191	.00085	2.71022
.194	10.557	-.07241	.39522	.01240	.46224	-.00260	.00062	3.37922
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 482/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
4.719	5.859	-.07893	.77322	.04107	.22012	-.00194	.00094	1.96064
5.154	10.488	-.07328	.40258	.01314	.45537	-.00196	.00060	3.68903
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 483/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
9.696	5.908	-.08345	.81070	.04123	.21788	-.00164	.00100	2.05427
10.116	10.472	-.06343	.34898	.01341	.44893	-.00213	.00073	3.95290
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 484/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
14.663	6.043	-.07712	.73259	.03984	.23040	-.00200	.00101	2.33897
15.113	10.416	-.07520	.41593	.01368	.44569	-.00197	.00060	3.53795
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 485/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DX	ALPHAO	BETAO	PHIO	CA	CN	CSL	CLN	DZ
19.772	5.858	-.07512	.73598	.04094	.21857	-.00195	.00101	1.87798
20.191	10.427	-.06647	.36727	.01323	.44955	-.00227	.00056	3.29780
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 025I (ORBITER DATA)   (EN*008)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
1ORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 81/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
4.365	.192	.05446	.30972	-.05783	-.24690	-.27890	-.26726	-.16942	-.19639	-.23897
2.954	2.364	.07185	.25493	-.06116	-.24396	-.27398	-.26299	-.16194	-.19250	-.24396
3.443	4.308	.07689	.19175	-.06749	-.24586	-.27367	-.25709	-.16403	-.20307	-.24212
GRADIENT		.00550	-.02859	-.00233	.00027	.00129	.00246	.00135	.00156	-.00079

RUN NO. 82/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
6.994	-.126	.04407	.36613	-.04732	-.24239	-.27615	-.25874	-.16013	-.18264	-.22578
7.541	2.378	.06231	.31904	-.05794	-.24761	-.28463	-.26290	-.16498	-.19396	-.24359
7.335	4.361	.06806	.19936	-.06196	-.24304	-.27606	-.25742	-.15916	-.20230	-.24357
GRADIENT		.00543	-.03637	-.00330	-.00023	-.00013	.00021	.00012	-.00439	-.00410

RUN NO. 83/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.751	-.141	.03911	.40309	-.05639	-.24684	-.28083	-.27082	-.14490	-.19179	-.23762
9.637	2.414	.06077	.45510	-.05524	-.24211	-.27162	-.26019	-.13658	-.19692	-.24291
9.522	4.401	.06546	.21189	-.06578	-.25207	-.28178	-.26920	-.12975	-.20951	-.25046
GRADIENT		.00593	-.03919	-.00195	-.00101	-.00003	.00053	.00333	-.00381	-.00279

RUN NO. 84/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.752	-.014	.03539	.37674	-.04544	-.23527	-.27569	-.25973	-.12254	-.17545	-.23447
15.063	2.461	.05589	.31875	-.05749	-.24508	-.28105	-.26586	-.12730	-.19765	-.24374
15.188	4.492	.06058	.17157	-.06636	-.24855	-.28221	-.26938	-.11097	-.20100	-.24908
GRADIENT		.00569	-.04474	-.00465	-.00298	-.00147	-.00215	.00241	-.00579	-.00326

RUN NO. 85/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.536	-.028	.02722	.43476	-.05191	-.24389	-.28095	-.26255	-.12070	-.18230	-.23749
29.860	2.464	.04862	.34404	-.05940	-.25107	-.28279	-.26600	-.12178	-.20175	-.24654
29.902	4.306	.05195	.13888	-.06704	-.25378	-.28495	-.27269	-.10780	-.20450	-.24818
GRADIENT		.00587	-.06644	-.00346	-.00232	-.00091	-.00228	.00278	-.00528	-.00253

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ENH008)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE	=	.0125			

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 86/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.873	-.065	.02216	.50328	-.06166	-.25602	-.28701	-.27309	-.16619	-.19719	-.24367
44.666	2.496	.04330	.38713	-.05433	-.24704	-.28150	-.27408	-.14552	-.19297	-.24492
45.029	4.342	.04626	.13138	-.06407	-.25304	-.28732	-.27404	-.13955	-.21025	-.25330
GRADIENT		.00564	-.08314	-.00033	.00085	.00107	-.00023	.00617	-.00268	-.00206

RUN NO. 87/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.039	-.106	.02062	.54553	-.05549	-.25313	-.28982	-.27619	-.16401	-.19258	-.24395
50.412	2.490	.04196	.40675	-.05911	-.25144	-.28682	-.27166	-.15036	-.19930	-.24798
50.166	4.334	.04468	.13242	-.07619	-.26425	-.29844	-.28503	-.14957	-.20875	-.26083
GRADIENT		.00560	-.09046	-.00445	-.00230	-.00174	-.00175	.00338	-.00357	-.00365

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ENH009)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE	=	.0125			

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 91/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
8.075	.274	.04871	.16540	-.06801	-.25064	-.27756	-.26542	-.12528	-.20578	-.24431
7.276	2.380	.05676	.12947	-.07263	-.24849	-.27681	-.26615	-.13169	-.20947	-.25482
7.800	4.334	.05873	-.03980	-.06990	-.25347	-.28179	-.26709	-.12254	-.20671	-.24652
GRADIENT		.00249	-.05011	-.00049	-.00067	-.00104	-.00041	.00063	-.00025	-.00060

RUN NO. 92/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.930	-.015	.04855	.24790	-.06344	-.24561	-.27118	-.26117	-.12197	-.19763	-.24324
10.150	2.498	.05428	.12649	-.06061	-.24458	-.27285	-.25632	-.11580	-.19579	-.24352
9.843	4.339	.05624	-.04508	-.06651	-.25431	-.28668	-.26848	-.12965	-.20723	-.25752
GRADIENT		.00180	-.06617	-.00060	-.00186	-.00339	-.00147	.00152	-.00203	-.00309

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ENH009)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   1ORB   = 8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 93/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.862	-.101	.04499	.27644	-.05002	-.23708	-.26582	-.25517	-.11122	-.18200	-.22590
14.490	2.534	.05160	.09345	-.06288	-.24887	-.28293	-.26909	-.12674	-.20816	-.25020
15.108	4.322	.05208	-.06079	-.06534	-.24615	-.28119	-.26580	-.12269	-.20022	-.24615
GRADIENT		.00167	-.07572	-.00357	-.00223	-.00570	-.00262	-.00284	-.00455	-.00493

RUN NO. 94/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.926	-.027	.03987	.26449	-.06462	-.24853	-.29374	-.27559	-.13503	-.20255	-.24722
29.957	2.539	.04522	.04725	-.06401	-.24940	-.28318	-.27042	-.13024	-.20445	-.25499
29.720	4.365	.04513	-.07894	-.07558	-.26215	-.29524	-.28110	-.13724	-.20930	-.25921
GRADIENT		.00126	-.07862	-.00232	-.00292	-.00244	-.00104	-.00035	-.00148	-.00275

RUN NO. 95/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.465	-.192	.03462	.29437	-.06500	-.25349	-.28350	-.27297	-.13449	-.19873	-.24480
44.798	2.406	.04115	.05014	-.07212	-.25736	-.29709	-.28261	-.14211	-.21342	-.26130
44.826	4.485	.03959	-.07877	-.07512	-.26369	-.30204	-.28286	-.13531	-.21255	-.26262
GRADIENT		.00112	-.08037	-.00219	-.00215	-.00402	-.00218	-.00029	-.00307	-.00391

RUN NO. 96/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.555	-.078	.03541	.24386	-.06365	-.25050	-.28160	-.27159	-.13006	-.20122	-.24602
50.407	2.550	.03964	.01257	-.06210	-.24949	-.28357	-.27106	-.12838	-.20611	-.24923
50.452	4.393	.03795	-.12941	-.06996	-.25736	-.29134	-.28099	-.12597	-.21144	-.25657
GRADIENT		.00064	-.08379	-.00127	-.00140	-.00208	-.00195	.00090	-.00226	-.00228

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ENH010)   (08 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF	= 474.8100 IN.	YMRP = .0000 IN.	YO
BREF	= 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE	= .0125		

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 101/ 0   RN/L = 3.39   GRADIENT INTERVAL = -5.00/ 5.00

CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.18225	-.21478	-.20019	-.05073	-.13514	-.18281
-.22526	-.25630	-.24399	-.09575	-.17977	-.22392
-.24015	-.27049	-.25706	-.09406	-.19315	-.23236
-.01409	-.01356	-.01385	-.01065	-.01413	-.01209

DZ	ALPHAC	XZCP	CPC	XYCP
6.742	.132	.05354	.01292	.24686
7.349	2.303	.05571	.03956	.08905
7.463	4.270	.05666	.04921	-.06632
GRADIENT		.00076	-.01517	-.07563

RUN NO. 102/ 0   RN/L = 3.38   GRADIENT INTERVAL = -5.00/ 5.00

CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.22779	-.26324	-.24805	-.08575	-.17316	-.22433
-.23607	-.26914	-.25538	-.09957	-.18687	-.23078
-.24493	-.27422	-.26234	-.09876	-.19638	-.23913
-.00374	-.00241	-.00313	-.00297	-.00511	-.00322

DZ	ALPHAC	XZCP	CPC	XYCP
10.009	-.206	.04784	-.03644	.29277
10.088	2.335	.05270	-.04640	.10363
10.447	4.346	.05297	-.05311	-.09256
GRADIENT		.00116	-.00367	-.08410

RUN NO. 103/ 0   RN/L = 3.37   GRADIENT INTERVAL = -5.00/ 5.00

CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.23444	-.27112	-.25959	-.09898	-.18571	-.22789
-.23571	-.27365	-.25694	-.10015	-.18716	-.23545
-.24412	-.28298	-.26633	-.09715	-.19575	-.24544
-.00205	-.00253	-.00137	-.00036	-.00213	-.00381

DZ	ALPHAC	XZCP	CPC	XYCP
15.028	-.178	.04499	-.04920	.29737
14.812	2.367	.04988	-.04815	.07999
15.043	4.381	.05010	-.05407	-.09991
GRADIENT		.00115	-.00100	-.08705

RUN NO. 104/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.23142	-.26001	-.24466	-.09322	-.17265	-.22374
-.24696	-.28172	-.25996	-.11164	-.19230	-.23767
-.25201	-.28921	-.27327	-.11200	-.19781	-.24856
-.00462	-.00655	-.00633	-.00427	-.00566	-.00550

DZ	ALPHAC	XZCP	CPC	XYCP
29.734	-.108	.03970	-.03895	.38200
30.254	2.360	.04378	-.05221	.01953
29.860	4.407	.04367	-.06072	-.13450
GRADIENT		.00091	-.00484	-.11551

RUN NO. 105/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.23382	-.26918	-.26080	-.12065	-.18667	-.23591
-.23778	-.27253	-.25873	-.11100	-.18155	-.23195
-.24949	-.28831	-.27555	-.13305	-.19925	-.25082
-.00337	-.00409	-.00307	-.00245	-.00257	-.00308

DZ	ALPHAC	XZCP	CPC	XYCP
44.868	-.111	.03717	-.05018	.39880
45.183	2.422	.04024	-.04788	.02428
45.129	4.429	.03909	-.05862	-.13004
GRADIENT		.00046	-.00174	-.11782

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (ENH010)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO	BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO	IORB	=	8.000	DX	=	.000
SCALE	=	.0125					DY	=	.000	MACH	=	.600

RUN NO. 106/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.418	-.076	.03573	.43543	-.05251	-.24532	-.27781	-.26672	-.13571	-.19012	-.24215
50.480	2.472	.03881	.02533	-.05049	-.24092	-.27741	-.26196	-.12906	-.18632	-.23719
50.477	4.415	.03791	-.12711	-.05746	-.25330	-.28394	-.27408	-.13340	-.20294	-.24451
	GRADIENT	.00052	-.12705	-.00101	-.00160	-.00129	-.00146	-.00062	-.00263	-.00040

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (ENH011)   (08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO	BETA	=	.000	STAB	=	-1.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO	IORB	=	4.000	DX	=	.000
SCALE	=	.0125					DY	=	.000	MACH	=	.600

RUN NO. 111/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.151	-.047	.06078	.37785	-.02504	-.22815	-.26704	-.24651	-.17467	-.16630	-.21789
3.118	2.270	.07068	.36497	-.06217	-.25314	-.28536	-.27057	-.19133	-.19265	-.24284
3.528	4.264	.08002	.35221	-.06169	-.24879	-.27743	-.26726	-.18696	-.20462	-.24852
	GRADIENT	.00456	-.00607	-.00884	-.00502	-.00257	-.00503	-.00300	-.00914	-.00734

RUN NO. 112/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.547	-.170	.04146	.41714	-.03591	-.24061	-.27655	-.26324	-.18338	-.17726	-.23343
7.199	2.385	.05883	.36679	-.05340	-.24932	-.28064	-.26966	-.19151	-.19499	-.23701
7.175	4.257	.07075	.30977	-.05944	-.24495	-.27729	-.26714	-.18695	-.20111	-.24281
	GRADIENT	.00663	-.02399	-.00541	-.00112	-.00025	-.00098	-.00095	-.00548	-.00208

RUN NO. 113/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.781	-.120	.03490	.37357	-.04804	-.24916	-.28326	-.26872	-.19287	-.18547	-.23912
9.781	2.353	.05283	.36283	-.05779	-.25112	-.28351	-.26932	-.18792	-.19542	-.24094
9.491	4.419	.06817	.31726	-.06303	-.25247	-.27712	-.26747	-.18897	-.19566	-.24363
	GRADIENT	.00733	-.01215	-.00332	-.00073	.00130	.00026	.00090	-.00230	-.00098

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH011)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 114/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.874	-.041	.02590	.36570	-.04195	-.24857	-.28754	-.27046	-.17542	-.17809	-.23309
14.967	2.414	.04697	.37900	-.05428	-.24979	-.28303	-.26601	-.17717	-.19473	-.23888
14.923	4.392	.06414	.33706	-.06914	-.25560	-.28965	-.27472	-.18882	-.20244	-.25299
GRADIENT		.00862	-.00599	-.00609	-.00154	-.00138	-.00085	-.00293	-.00554	-.00440

RUN NO. 115/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.907	-.177	.01090	.42504	-.03708	-.24863	-.28499	-.27278	-.17272	-.17033	-.23138
29.803	2.432	.03766	.46214	-.05142	-.25021	-.28236	-.26828	-.16703	-.19068	-.23878
29.693	4.435	.05623	.33114	-.06203	-.25346	-.28488	-.27396	-.18184	-.20766	-.24840
GRADIENT		.00985	-.01866	-.00541	-.00103	-.00007	-.00016	-.00177	-.00808	-.00365

RUN NO. 116/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.786	-.134	.00329	.50046	-.03803	-.24893	-.28893	-.27320	-.17481	-.17454	-.23560
45.057	2.347	.03178	.47353	-.05084	-.25031	-.28360	-.27535	-.17654	-.19439	-.23540
44.452	4.450	.04970	.34545	-.05966	-.25592	-.28560	-.27010	-.17945	-.19817	-.25058
GRADIENT		.01016	-.03313	-.00473	-.00150	-.00077	-.00063	-.00100	-.00524	-.00317

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH012)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 121/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.209	.038	.05588	.27582	-.04476	-.23527	-.27003	-.25969	-.17478	-.18672	-.22811
3.176	2.411	.07376	.25475	-.06509	-.23995	-.26971	-.25770	-.17575	-.19898	-.24465
3.398	4.319	.07754	.16974	-.06806	-.24615	-.27247	-.25625	-.15790	-.20788	-.24589
GRADIENT		.00516	-.02414	-.00557	-.00252	-.00054	.00080	.00377	-.00495	-.00426

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH012)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.5800 IN.	ZMRP = 375.0000 IN. ZO		1ORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 122/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.586	-.026	.04612	.30610	-.06270	-.24569	-.26564	-.26039	-.07058	-.19160	-.24122
7.752	2.399	.06472	.25116	-.05996	-.24464	-.27400	-.25852	-.04715	-.19767	-.23584
7.261	4.448	.06978	.17945	-.06395	-.24772	-.27355	-.26156	-.02693	-.19525	-.24505
GRADIENT		.00536	-.02814	-.00024	-.00043	-.00182	-.00023	.00975	-.00087	-.00076

RUN NO. 123/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.180	-.156	.04146	.29185	-.04994	-.24086	-.27125	-.25285	-.00888	-.18193	-.22939
9.988	2.439	.06163	.25186	-.05856	-.24133	-.27032	-.25569	-.01945	-.19370	-.23946
10.110	4.458	.06629	.14801	-.06265	-.24424	-.27842	-.26320	-.00524	-.20472	-.23890
GRADIENT		.00549	-.03044	-.00278	-.00071	-.00146	-.00219	.00056	-.00492	-.00215

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH013)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = 5.000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.5800 IN.	ZMRP = 375.0000 IN. ZO		1ORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 131/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.093	.127	.05851	.52140	-.03639	-.23082	-.26651	-.25380	.50742	-.16403	-.21351
3.006	2.255	.07320	.35723	-.05312	-.23701	-.26.23	-.25324	.51825	-.18032	-.23062
3.460	4.338	.07743	.30161	-.06760	-.24405	-.27609	-.26141	.52664	-.19013	-.24459
GRADIENT		.00450	-.05229	-.00741	-.00314	-.00226	-.00180	.00457	-.00620	-.00738

RUN NO. 132/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.217	-.139	.04581	.54870	-.04765	-.24225	-.27711	-.26263	.49033	-.17283	-.23315
7.234	2.360	.06452	.42639	-.05033	-.23519	-.26767	-.25657	.46827	-.17646	-.22870
7.262	4.367	.06951	.33565	-.05981	-.23580	-.27262	-.25502	.35226	-.18815	-.24121
GRADIENT		.00535	-.04729	-.00263	.00149	.00111	.00172	-.02976	-.00332	-.00165

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH013) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 133/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
10.116	-.237	.04150	.50194	-.05174	-.24239	-.27560	-.26328	-.17759	-.23088	.28218
9.960	2.407	.06266	.49044	-.05315	-.23714	-.27317	-.25664	-.17021	-.22575	.26388
9.890	4.371	.06704	.27880	-.06022	-.23957	-.27203	-.25932	-.17519	-.23389	.25358
GRADIENT		.00568	-.04595	-.00177	-.00069	-.00078	-.00095	.00065	-.00051	-.00624

RUN NO. 134/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
15.175	-.191	.03793	.53098	-.04449	-.23254	-.26943	-.25691	-.17307	-.22986	.28873
14.756	2.411	.05782	.48094	-.05455	-.23984	-.26996	-.25775	-.17202	-.23170	.27398
15.038	4.441	.06266	.24904	-.05798	-.23773	-.26950	-.25755	-.18152	-.24289	.24750
GRADIENT		.00544	-.05895	-.00295	-.00120	-.00025	-.00015	-.00172	-.00272	-.00875

RUN NO. 135/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
30.192	-.063	.03234	.48356	-.04075	-.23352	-.27045	-.25497	-.16591	-.22320	.27882
29.830	2.435	.05153	.42690	-.05094	-.23715	-.27140	-.25427	-.17109	-.23633	.26767
29.948	4.393	.05504	.19079	-.06885	-.24955	-.28204	-.27022	-.19182	-.24901	.24368
GRADIENT		.00521	-.06378	-.00621	-.00350	-.00250	-.00326	-.00565	-.00577	-.00773

RUN NO. 136/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
44.708	-.049	.02944	.78431	-.03500	-.23131	-.27095	-.25927	-.16343	-.22099	.27725
44.452	2.450	.04766	.54199	-.05160	-.23522	-.27264	-.26396	-.17555	-.23874	.24946
44.667	4.474	.04998	.19343	-.05913	-.24202	-.27724	-.26288	-.17808	-.24392	.23836
GRADIENT		.00465	-.12936	-.00539	-.00234	-.00136	-.00084	-.00330	-.00515	-.00870

RUN NO. 137/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
50.164	-.057	.02681	.76044	-.03782	-.23586	-.27303	-.26164	-.16940	-.23261	.25517
50.275	2.433	.04497	.60538	-.04754	-.23537	-.26757	-.25837	-.17258	-.22941	.21716
50.038	4.464	.04768	.19169	-.05828	-.24230	-.28214	-.26290	-.18837	-.24555	.22844
GRADIENT		.00471	-.12344	-.00450	-.00136	-.00186	-.00022	-.00409	-.00271	-.00626

ARC 14-120(CA23B) 747/I ATI O2SI (ORBITER DATA)   (ENH014) (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	BETA = .000 STAB = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	RUDDER = .000 ELEVON = 5.000
SCALE = .0125		IORB = 6.000 DX = 10.000
		DY = .000 MACH = .600

RUN NO. 141/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.324	2.292	.06258	.57108	-.04756	-.23131	-.26175	-.24653	-.21283	-.17477	-.23131
3.528	4.239	.06607	.49714	-.06379	-.23635	-.26647	-.25507	-.21844	-.18182	-.24042
	GRADIENT	.00180	-.03799	-.00834	-.00259	-.00242	-.00439	-.00289	-.00362	-.00468

RUN NO. 142/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.340	1.933	.05455	.52363	-.05874	-.24302	-.27480	-.26118	-.22993	-.17999	-.24488
7.097	4.300	.05873	.42885	-.04922	-.22730	-.25983	-.24917	-.21226	-.17316	-.23331
	GRADIENT	.00176	-.04003	.00444	.00664	.00632	.00507	.00746	.00288	.00489

RUN NO. 143/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.137	1.946	.05090	.89064	-.06467	-.24521	-.27869	-.26182	-.22994	-.18575	-.24601
9.825	4.403	.05528	.54804	-.06048	-.23581	-.26892	-.25725	-.21491	-.17773	-.24070
	GRADIENT	.00219	-.13943	.00171	.00383	.00398	.00186	.00612	.00326	.00216

RUN NO. 144/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.831	1.968	.04749	.78111	-.05634	-.23946	-.27592	-.26259	-.21905	-.17715	-.24027
14.775	4.376	.05261	.43210	-.05811	-.23987	-.27546	-.26378	-.21868	-.18418	-.24368
	GRADIENT	.00213	-.14496	-.00074	-.00017	.00019	-.00050	.00015	-.00292	-.00141

RUN NO. 145/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
30.007	1.997	.04285	.72571	-.05278	-.23729	-.27594	-.25798	-.20328	-.17280	-.23920
29.873	4.392	.04794	.37018	-.06798	-.24617	-.28040	-.26693	-.20870	-.18363	-.24590
	GRADIENT	.00212	-.14845	-.00635	-.00371	-.00187	-.00374	-.00226	-.00452	-.00280

RUN NO. 146/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.854	1.998	.04018	.72711	-.06377	-.24475	-.28041	-.26152	-.21042	-.17289	-.24262
44.891	4.430	.04439	.33112	-.05910	-.24153	-.27332	-.26336	-.20677	-.19033	-.24988
	GRADIENT	.00173	-.16281	.00192	.00133	.00292	.00076	.00150	-.00717	.00298

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (ENH014) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	STAB =	.000	5.000
RUDDER =	ELEVON =	.000	5.000
IORB =	DX =	6.000	10.000
DY =	MACH =	.000	.600

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 147/ 0 RN/L = 3.30

DZ / ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.387 / 2.049	.04035	-4.97051	-.06984	-.25405	-.28457	-.27065	-.20907	-.18524	-.25191
50.182 / 4.431	.04400	.35938	-.06725	-.24792	-.28222	-.26656	-.20336	-.18689	-.24738
GRADIENT	.00153	2.23755	.00109	.00257	.00099	.00172	.00240	-.00069	.00190

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (ENH015) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	STAB =	.000	5.000
RUDDER =	ELEVON =	.000	5.000
IORB =	DX =	8.000	10.000
DY =	MACH =	.000	.600

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 151/ 0 RN/L = 3.30

DZ / ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.261 / 2.410	.05123	.23611	-.05261	-.23183	-.26594	-.25268	-.15955	-.17769	-.23264
7.540 / 4.362	.05223	.00176	-.06359	-.23928	-.27291	-.25881	-.16309	-.19888	-.24471
GRADIENT	.00052	-.12008	-.00562	-.00382	-.00357	-.00314	-.00182	-.01086	-.00618

RUN NO. 152/ 0 RN/L = 3.29

DZ / ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.896 / 2.043	.04882	.22087	-.05175	-.22823	-.26244	-.24832	-.14406	-.18262	-.23801
10.215 / 4.469	.04971	-.02485	-.06914	-.24636	-.27947	-.26129	-.15055	-.19398	-.24554
GRADIENT	.00037	-.10131	-.00717	-.00747	-.00702	-.00534	-.00268	-.00468	-.00311

RUN NO. 153/ 0 RN/L = 3.29

DZ / ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.806 / 2.079	.04602	.17976	-.07202	-.24590	-.27707	-.26525	-.15264	-.19618	-.24751
14.750 / 4.497	.04652	-.08111	-.06735	-.24542	-.28282	-.26439	-.13673	-.19691	-.25030
GRADIENT	.00020	-.10791	.00193	.00020	-.00238	.00035	.00658	-.00030	-.00115

RUN NO. 154/ 0 RN/L = 3.29

DZ / ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
30.131 / 2.049	.04117	.12344	-.07606	-.25358	-.28254	-.27154	-.13317	-.20021	-.25009
30.087 / 4.493	.04092	-.08316	-.07122	-.25191	-.28810	-.27244	-.12713	-.19762	-.25002
GRADIENT	-.00010	-.08452	.00198	.00068	.00228	.00037	.00247	.00106	.00003

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ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ENH015)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA   =   .000 STAB   = 5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000 ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 8.000 DX   = 10.000
SCALE = .0125   DY   =   .000 MACH   =   .600

RUN NO. 155/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

		XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ	ALPHAC									
44.833	2.044	.03903	.08383	-.06332	-.24753	-.27914	-.26595	-.08283	-.19254	-.24780
45.102	4.460	.03799	-.05499	-.07235	-.25346	-.29305	-.27705	-.09512	-.19815	-.24967
	GRADIENT	-.00043	-.05747	-.00374	-.00245	-.00517	-.00459	-.00509	-.00232	-.00077

RUN NO. 156/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

		XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ	ALPHAC									
50.292	2.016	.03830	.09035	-.07667	-.25652	-.28765	-.27450	-.11049	-.19585	-.25705
50.425	4.375	.03715	-.12664	-.08066	-.26091	-.30028	-.28555	-.12083	-.20707	-.25984
	GRADIENT	-.00048	-.09197	-.00169	-.00186	-.00535	-.00468	-.00438	-.00476	-.00118

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ENH016)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA   =   .000 STAB   = 5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000 ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 6.000 DX   = 20.000
SCALE = .0125   DY   =   .000 MACH   =   .600

RUN NO. 161/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

		XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ	ALPHAC									
2.997	2.461	.04965	.37596	-.04947	-.22882	-.26918	-.26187	-.12749	-.18249	-.23451
3.241	4.340	.05225	.27865	-.05742	-.23700	-.27998	-.26381	-.13245	-.18960	-.23781
	GRADIENT	.00139	-.05181	-.00423	-.00436	-.00522	-.00104	-.00264	-.00378	-.00176

RUN NO. 162/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

		XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ	ALPHAC									
7.114	2.024	.04095	.35777	-.06689	-.24789	-.28382	-.26934	-.15323	-.19346	-.25084
7.110	4.482	.04484	.26349	-.06010	-.23912	-.27601	-.26082	-.13849	-.18650	-.24075
	GRADIENT	.00158	-.03835	.00276	.00357	.00318	.00347	.00600	.00283	.00410

RUN NO. 163/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

		XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ	ALPHAC									
10.110	1.989	.03841	.37909	-.05123	-.23447	-.27452	-.25855	-.13892	-.17925	-.24150
9.502	4.485	.04300	.24657	-.05818	-.23759	-.27668	-.26446	-.14232	-.18358	-.24438
	GRADIENT	.00184	-.05305	-.00278	-.00125	-.00086	-.00237	-.00136	-.00173	-.00115

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 260

                        ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH016)   (08 OCT 75)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   20.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 164/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPS1   CPS2
 2.147   .03724   .34696   -.07049   -.25124   -.28471   -.27132   -.19741   -.24401
 4.296   .04142   .20645   -.06505   -.24347   -.27899   -.26923   -.19032   -.24672
GRADIENT .00195 -.06539   .00253   .00361   .00266   .00097   .00330   -.00127
DZ
14.885
14.669

RUN NO. 165/ 0   RN/L =   3.31   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPS1   CPS2
 2.006   .03606   .32948   -.06254   -.24353   -.27833   -.26548   -.18409   -.24112
 4.442   .04091   .22143   -.06019   -.24160   -.27978   -.26624   -.18880   -.24350
GRADIENT .00199 -.04435   .00096   .00079   -.00059   -.00031   -.00194   -.00098
DZ
29.970
29.738

RUN NO. 166/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPS1   CPS2
 2.001   .03593   .40757   -.07121   -.25301   -.28273   -.26988   -.18848   -.25060
 4.440   .04045   .15458   -.06431   -.24036   -.27692   -.26473   -.19025   -.24713
GRADIENT .00185 -.10373   .00283   .00519   .00238   .00211   .00073   .00142
DZ
44.740
44.620

RUN NO. 167/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPS1   CPS2
 1.983   .03557   .42657   -.06048   -.24270   -.27529   -.26524   -.18078   -.24840
 4.478   .04000   .12951   -.06513   -.24928   -.28159   -.26883   -.18789   -.25172
GRADIENT .00178 -.11904   -.00187   -.00264   -.00253   -.00144   -.00285   -.00133
DZ
50.218
50.509

ARC I4-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB	=	5.000
RUDDER =	.000	ELEVON	=	5.000
IORB =	8.000	DX	=	20.000
DY =	.000	MACH	=	.600

RUN NO. 171/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.409	2.320	.04467	.16299	-.05833	-.23103	-.27279	-.25896	-.20691	-.19606	-.24188
7.682	4.409	.04414	-.01823	-.06477	-.24601	-.28595	-.27101	-.21394	-.20199	-.24873
	GRADIENT	-.00025	-.08677	-.00308	-.00717	-.00630	-.00577	-.00337	-.00284	-.00328

RUN NO. 172/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.200	1.989	.04223	.15163	-.06998	-.24498	-.28030	-.26638	-.20725	-.20136	-.24926
9.876	4.367	.04206	-.04056	-.07035	-.24954	-.28852	-.27011	-.20488	-.20434	-.24819
	GRADIENT	-.00007	-.08082	-.00016	-.00192	-.00346	-.00157	.00100	-.00125	.00045

RUN NO. 173/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.980	2.042	.03989	.11914	-.07471	-.25462	-.29018	-.27333	-.20864	-.21238	-.25703
14.840	4.390	.03957	-.05068	-.08023	-.25523	-.29491	-.27760	-.20702	-.20702	-.25416
	GRADIENT	-.00014	-.07233	-.00235	-.00026	-.00202	-.00182	-.00069	.00229	.00122

RUN NO. 174/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
30.168	1.994	.03718	.11374	-.07403	-.25704	-.29129	-.28005	-.21075	-.20487	-.25972
29.810	4.397	.03699	-.06613	-.07443	-.26007	-.29768	-.28226	-.20838	-.21054	-.25763
	GRADIENT	-.00008	-.07487	-.00017	-.00126	-.00266	-.00092	.00099	-.00236	.00087

RUN NO. 175/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.854	2.109	.03651	.03714	-.06373	-.24997	-.28908	-.26943	-.20483	-.20213	-.24997
45.244	4.417	.03540	-.08333	-.07590	-.26259	-.29755	-.27939	-.20867	-.20813	-.25717
	GRADIENT	-.00048	-.05220	-.00527	-.00547	-.00410	-.00431	-.00166	-.00260	-.00312

RUN NO. 176/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.344	2.118	.03614	.07841	-.06847	-.24766	-.28177	-.27013	-.20083	-.19867	-.25334
50.595	4.352	.03491	-.07524	-.07068	-.25755	-.29541	-.27756	-.20861	-.20482	-.26053
	GRADIENT	-.00055	-.06878	-.00099	-.00443	-.00611	-.00333	-.00348	-.00275	-.00322

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　　　　(ENH018)　(08 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RUN NO. 181/ 0　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.378	2.472	.07096	-.13422	-.06464	-.24736	-.27253	-.26441	-.18726	-.19024	-.24952
3.590	4.405	.07803	-.67489	-.06726	-.24807	-.27937	-.26588	-.18519	-.19490	-.25265
	GRADIENT	.00366	-.27958	-.00135	-.00037	-.00354	-.00076	.00107	-.00241	-.00162

RUN NO. 182/ 0　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.711	2.009	.05000	.05661	-.07757	-.25456	-.28825	-.27675	-.20163	-.20350	-.25857
7.202	4.378	.06815	-.51759	-.07549	-.25422	-.28627	-.27568	-.19582	-.20071	-.26400
	GRADIENT	.00344	-.19035	.00088	.00014	.00083	.00045	.00245	.00118	-.00229

RUN NO. 183/ 0　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.911	2.005	.05788	.02737	-.07815	-.25641	-.28443	-.27216	-.19797	-.20064	-.25828
10.102	4.475	.06498	-.66327	-.07170	-.25077	-.28771	-.27180	-.19117	-.20061	-.26074
	GRADIENT	.00287	-.27962	.00261	.00229	-.00133	.00014	.00275	.00001	-.00100

RUN NO. 184/ 0　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.973	2.102	.05474	.09579	-.07556	-.26004	-.29587	-.28250	-.19882	-.20764	-.26379
14.736	4.362	.06146	-.36029	-.07386	-.25431	-.28398	-.27319	-.18877	-.20414	-.26241
	GRADIENT	.00297	-.20173	.00075	.00253	.00526	.00412	.00444	.00155	.00061

RUN NO. 185/ 0　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.716	2.100	.04723	.25636	-.07440	-.25998	-.28957	-.28337	-.19785	-.20745	-.26238
29.761	4.335	.05249	-.03519	-.07016	-.25617	-.28857	-.27615	-.19138	-.20002	-.25482
	GRADIENT	.00235	-.13046	.00190	.00170	.00045	.00350	.00290	.00332	.00338

RUN NO. 186/ 0　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.733	1.972	.04246	.34928	-.06436	-.25112	-.28522	-.27304	-.18941	-.19807	-.25491
44.856	4.308	.04737	.05391	-.06632	-.24991	-.28177	-.26981	-.18592	-.20428	-.25693
	GRADIENT	.00210	-.12644	-.00084	.00052	.00148	.00181	.00149	.00266	.00087

ARC 14-120(CA23B)   747/1 ATI O2SI   (ORBITER DATA)   (ENH018)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN. YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO		IORB = 6.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 187/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 49.952	2.021	.04088	.34071	-.06794	-.25759	-.29069	-.27115	-.19057	-.19301	-.24457
DZ 50.410	4.396	.04577	.0283?	-.07152	-.25391	-.29207	-.28206	-.19573	-.20737	-.26392
GRADIENT		.00206	-.13154	-.00151	.00155	-.00058	-.00459	-.00217	-.00604	-.00815

ARC 14-120(CA23B)   747/1 ATI O2SI   (ORBITER DATA)   (ENH019)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN. YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 191/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 7.491	2.405	.05706	-.23786	-.06455	-.24878	-.27692	-.26610	-.16492	-.19711	-.24797
DZ 7.844	4.380	.05782	-.64083	-.07085	-.25693	-.28478	-.27261	-.16822	-.20121	-.25476
GRADIENT		.00038	-.20402	-.00319	-.00412	-.00398	-.00330	-.00167	-.00208	-.00344

RUN NO. 192/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 9.818	2.116	.05397	-.15091	-.08076	-.25872	-.29137	-.27344	-.17737	-.20788	-.25738
DZ 9.759	4.310	.05557	-.45810	-.07445	-.25166	-.28435	-.27327	-.16413	-.20276	-.26247
GRADIENT		.00073	-.14004	.00288	.00322	.00320	.00008	.00603	.00233	.00232

RUN NO. 193/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 14.864	1.964	.05030	-.05855	-.07683	-.25386	-.28532	-.27012	-.17201	-.20374	-.25466
DZ 15.018	4.414	.05199	-.27326	-.07557	-.25600	-.29328	-.27896	-.16335	-.20414	-.25925
GRADIENT		.00069	-.08764	.00052	-.00088	-.00325	-.00361	-.00353	-.00016	-.00187

RUN NO. 194/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 30.225	2.014	.04498	.01707	-.07603	-.25810	-.29089	-.27916	-.18133	-.20772	-.25597
DZ 30.105	4.404	.04476	-.29380	-.07688	-.26561	-.29855	-.28316	-.17786	-.20945	-.26021
GRADIENT		-.00009	-.13009	-.00036	-.00314	-.00320	-.00167	.00145	-.00072	-.00177

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ENH019)   (08 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6600 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 195/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.421	2.014	.04190	.02346	-.07806	-.26248	-.29318	-.27876	-.18535	-.21524	-.25394
45.079	4.380	.04077	-.07631	-.08899	-.27285	-.31148	-.29336	-.18598	-.21955	-.26299
GRADIENT		-.00048	-.04428	-.00462	-.00438	-.00774	-.00617	-.00027	-.00182	-.00382

RUN NO. 196/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.290	2.002	.04085	.05374	-.06750	-.25046	-.28398	-.26830	-.17750	-.20047	-.24317
50.279	4.323	.03947	-.16453	-.07574	-.26322	-.30125	-.28641	-.18283	-.21008	-.26241
GRADIENT		-.00059	-.09401	-.00355	-.00549	-.00744	-.00780	-.00230	-.00414	-.00829

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ENH020)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6600 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.999	.056	.39863	.26105	-.03439	-.22954	-.26895	-.25653	-.18878	-.17205	-.21875
2.972	2.231	.29254	.24623	-.06544	-.24740	-.28299	-.26785	-.20038	-.19161	-.24288
3.376	4.258	.24754	.23566	-.05138	-.23260	-.26636	-.25367	-.18750	-.19479	-.23314
GRADIENT		-.03612	-.00605	-.00417	-.00082	-.00053	-.00061	.00024	-.00546	-.00352

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.356	-.232	.35614	.29853	-.03357	-.23656	-.27678	-.25923	-.18878	-.17204	-.22846
7.305	2.422	.26945	.24864	-.04939	-.23115	-.26787	-.26004	-.19253	-.18064	-.23709
7.176	4.286	.23535	.20830	-.06147	-.24072	-.26667	-.25721	-.19286	-.19097	-.24126
GRADIENT		-.02714	-.01989	-.00616	-.00072	.00231	.00040	.00094	-.00412	-.00286

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH020)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 4.000	DX = .000	
DY = .000	MACH = .600	

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
9.998	-.190	.34066	.25702	-.05580	-.25375	-.29127	-.27877	-.18564	-.24577	-.20985
9.822	2.393	.25630	.22934	-.05492	-.24458	-.27489	-.25879	-.18368	-.23385	-.19441
9.715	4.416	.22834	.23567	-.06131	-.24450	-.27526	-.26483	-.19690	-.24584	-.19904
GRADIENT		-.02476	-.00491	-.00113	.00208	.00361	.00324	-.00230	.00019	.00251

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
14.608	-.076	.31885	.25658	-.04064	-.24353	-.27829	-.26104	-.17644	-.22683	-.20473
14.941	2.433	.24089	.25604	-.04728	-.23836	-.27102	-.25941	-.18708	-.24268	-.19977
14.567	4.425	.21767	.23029	-.06068	-.24189	-.27132	-.26268	-.18923	-.23784	-.19814
GRADIENT		-.02284	-.00560	-.00438	.00044	.00161	-.00032	-.00290	-.00261	.00149

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
29.742	-.160	.30440	.27306	-.05510	-.25147	-.29251	-.27519	-.18246	-.24561	-.21524
29.812	2.421	.21868	.27933	-.05340	-.24348	-.27880	-.26909	-.18551	-.23458	-.19980
29.770	4.475	.19747	.20422	-.06195	-.24859	-.28199	-.26583	-.19635	-.24536	-.19985
GRADIENT		-.02350	-.01413	-.00139	.00073	.00240	.00203	-.00292	.00023	.00343

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
44.518	-.106	.29416	.31731	-.05053	-.25239	-.29748	-.27655	-.18313	-.24165	-.22555
44.662	2.474	.20358	.27619	-.04737	-.24135	-.26968	-.25187	-.17822	-.23137	-.19333
44.473	4.486	.18437	.19851	-.05562	-.23680	-.26980	-.26050	-.18596	-.24113	-.19489
GRADIENT		-.02442	-.02541	-.00100	.00343	.00625	.00375	-.00050	.00029	.00694

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　　　(ENH0211　(08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 211/ 0　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.110	.173	.41452	.25224	-.03869	-.23315	-.27188	-.25425	-.21792	-.17465	-.22513
3.078	2.255	.30802	.22748	-.05057	-.23413	-.26517	-.25313	-.21700	-.18570	-.23573
3.099	4.353	.25796	.21353	-.06938	-.24387	-.27569	-.26455	-.23140	-.20595	-.25713
GRADIENT		-.03743	-.00926	-.00734	-.00257	-.00092	-.00247	-.00323	-.00749	-.00766

RUN NO. 212/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.673	-.126	.37046	.24630	-.04127	-.23371	-.27311	-.26346	-.21897	-.18064	-.22057
7.105	2.399	.28484	.24770	-.05513	-.24072	-.27120	-.25970	-.22333	-.18991	-.23109
7.181	4.355	.24296	.21351	-.05831	-.24065	-.26311	-.24921	-.21659	-.19413	-.23905
GRADIENT		-.02871	-.00694	-.00388	-.00161	.00216	.00310	.00042	-.00304	-.00412

RUN NO. 213/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.888	-.253	.37602	.25118	-.05351	-.24854	-.28352	-.27160	-.23291	-.18998	-.23688
10.133	2.398	.26796	.26065	-.06193	-.24162	-.26835	-.25670	-.22918	-.20033	-.24479
9.989	4.413	.23410	.20391	-.06689	-.24687	-.27065	-.26008	-.22995	-.20247	-.25057
GRADIENT		-.03094	-.00943	-.00288	-.00047	.00291	.00263	.00067	-.00274	-.00294

RUN NO. 214/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.808	-.052	.33433	.24131	-.05092	-.24013	-.27956	-.26474	-.22161	-.18959	-.23537
14.795	2.452	.25309	.25639	-.05233	-.24122	-.27195	-.25832	-.22065	-.18699	-.23588
14.946	4.403	.22292	.20783	-.05692	-.23454	-.26686	-.25350	-.22573	-.19447	-.24042
GRADIENT		-.02525	-.00689	-.00131	.00118	.00286	.00252	-.00086	-.00100	-.00109

RUN NO. 215/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.743	-.137	.31380	.29584	-.05021	-.24849	-.28296	-.26652	-.22755	-.18010	-.23763
29.755	2.487	.22515	.26577	-.05262	-.24142	-.27191	-.25559	-.22243	-.18740	-.23661
29.747	4.402	.20165	.22420	-.06133	-.24349	-.27595	-.26254	-.23088	-.20030	-.24832
GRADIENT		-.02525	-.01553	-.00236	.00120	.00170	.00107	.00057	-.00435	-.00219

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ENH021)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = -5.00/ 5.00 STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000 DX = .000
SCALE = .0125		DY = MACH = .600

RUN NO. 216/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.609	-.114	.30130	.42226	-.05274	-.24956	-.28723	-.27344	-.22940	-.17184	-.24054
44.499	2.547	.20540	.31655	-.05451	-.24433	-.27516	-.26041	-.22905	-.17998	-.24352
44.744	4.315	.18855	.34632	-.05559	-.23912	-.26725	-.25412	-.22411	-.18553	-.23697
	GRADIENT	-.02630	-.02061	-.00065	-.00233	.00451	.00440	.00111	-.00309	-.00065

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ENH022)   (08 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = -5.00/ 5.00 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000 DX = .000
SCALE = .0125		DY = MACH = .600

RUN NO. 221/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.175	.180	.18036	.21105	-.04032	-.21690	-.23985	-.23013	-.23661	-.16776	-.22203
7.048	2.374	.16764	.12198	-.05100	-.22475	-.25641	-.24450	-.26399	-.18117	-.23016
7.827	4.374	.14944	-.08835	-.05929	-.23090	-.26717	-.25255	-.21628	-.18678	-.24010
	GRADIENT	-.00735	-.07089	-.00453	-.00334	-.00653	-.00537	.00457	-.00456	-.00430

RUN NO. 222/ 0   RN/L = 3.31

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.008	-.095	.17224	.19754	-.04516	-.22589	-.25074	-.23939	-.18698	-.17078	-.22048
9.794	2.462	.16279	.09055	-.05619	-.22622	-.25618	-.24484	-.19195	-.18574	-.23567
10.169	4.329	.14498	-.09943	-.05854	-.23474	-.26712	-.25417	-.19778	-.19265	-.23555
	GRADIENT	-.00601	-.06455	-.00310	-.00189	-.00361	-.00327	-.00241	-.00500	-.00356

RUN NO. 223/ 0   RN/L = 3.31

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.875	-.131	.17025	.20672	-.05553	-.22777	-.25745	-.24863	-.19193	-.17936	-.23499
15.107	2.479	.15889	.07262	-.06810	-.23904	-.27575	-.26557	-.20769	-.20126	-.24574
14.650	4.467	.14071	-.03730	-.06014	-.23063	-.27167	-.25542	-.19502	-.19258	-.23700
	GRADIENT	-.00632	-.05228	-.00120	-.00246	-.00329	-.00173	-.00095	-.00316	-.00063

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ENH022)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = -5.00/ 5.00	STAB = .000 = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000 = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 224/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.663	-.130	.16450	.20057	-.05583	-.23379	-.26328	-.24282	-.18757	-.18146	-.23512
30.014	2.540	.14917	.04527	-.06088	-.24111	-.26458	-.25460	-.19443	-.18391	-.24246
30.212	4.360	.12891	.08563	-.06557	-.24766	-.27670	-.26648	-.19844	-.19951	-.24281
	GRADIENT	-.00776	-.06332	-.00215	-.00306	-.00280	-.00520	-.00243	-.00379	-.00179

RUN NO. 225/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.608	-.097	.16064	.23099	-.04637	-.22687	-.25058	-.23980	-.18215	-.17676	-.23657
44.758	2.520	.14318	.04319	-.05407	-.23509	-.26710	-.25338	-.19313	-.18963	-.23913
44.921	4.300	.12214	.08100	-.06097	-.23982	-.27366	-.25996	-.19121	-.18880	-.23284
	GRADIENT	-.00860	-.07101	-.00329	-.00296	-.00533	-.00463	-.00222	-.00290	-.00071

RUN NO. 226/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.329	-.122	.15944	.26417	-.04415	-.22660	-.25872	-.24495	-.18530	-.17910	-.23038
50.199	2.456	.14255	.05436	-.06230	-.23923	-.26629	-.25329	-.18909	-.18512	-.23949
50.308	4.443	.11898	.05109	-.06660	-.24688	-.27491	-.26548	-.19784	-.19892	-.24581
	GRADIENT	-.00875	-.06966	-.00502	-.00447	-.00352	-.00444	-.00268	-.00424	-.00339

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ENH023)   (08 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = -5.00/ 5.00	STAB = .000 = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000 = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 231/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.150	.028	.22436	.24228	-.04239	-.22103	-.25396	-.23804	-.16301	-.16760	-.22184
3.398	2.478	.21351	.20479	-.05171	-.22321	-.25292	-.24373	-.17054	-.17864	-.23563
3.255	4.342	.20391	.14862	-.05232	-.22686	-.25928	-.24739	-.16850	-.18525	-.23172
	GRADIENT	-.00472	-.02138	-.00238	-.00133	-.00115	-.00218	-.00136	-.00411	-.00246

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH023)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 232/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.044	-.157	.21035	.24586	-.05224	-.23474	-.26734	-.25532	-.17168	-.17863	-.24196
7.210	2.438	.20535	.20969	-.06034	-.23282	-.25970	-.25464	-.17373	-.18730	-.23574
7.208	4.444	.19451	.11642	-.05964	-.23013	-.25953	-.24766	-.16862	-.18993	-.23552
	GRADIENT	-.00337	-.02745	-.00168	-.00099	-.00176	-.00160	-.00060	-.00250	-.00145

RUN NO. 233/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.588	-.079	.20594	.25571	-.04458	-.23046	-.25643	-.24588	-.16552	-.17093	-.22938
9.981	2.449	.20118	.18845	-.06178	-.23265	-.26677	-.25211	-.17534	-.18867	-.23825
9.714	4.418	.18993	.12368	-.05704	-.23284	-.25872	-.24578	-.17190	-.18700	-.24147
	GRADIENT	-.00348	-.02923	-.00296	-.00055	-.00068	-.00009	-.00153	-.00373	-.00273

RUN NO. 234/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.480	-.060	.20130	.27704	-.04662	-.23107	-.26111	-.24808	-.17234	-.17552	-.23187
14.703	2.510	.19587	.17268	-.05236	-.22895	-.25757	-.24137	-.16415	-.17684	-.23219
14.839	4.425	.18386	.12421	-.05533	-.23125	-.26390	-.25445	-.17270	-.18889	-.23826
	GRADIENT	-.00379	-.03444	-.00196	.00001	-.00051	-.00120	.00010	-.00284	-.00135

RUN NO. 235/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.767	-.083	.19098	.29006	-.04422	-.22941	-.26397	-.24912	-.16894	-.17488	-.23103
29.743	2.454	.18344	.21383	-.05904	-.23739	-.27178	-.25659	-.17661	-.18434	-.24192
29.929	4.441	.16734	.07192	-.05842	-.23528	-.26386	-.25469	-.17327	-.19053	-.24526
	GRADIENT	-.00512	-.04739	-.00326	-.00138	-.00012	-.00131	-.00105	-.00347	-.00320

RUN NO. 236/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.538	-.030	.18657	.31682	-.04167	-.23042	-.26774	-.25476	-.16714	-.17336	-.22528
44.541	2.408	.17470	.21749	-.04321	-.22569	-.25476	-.24534	-.16137	-.17294	-.23107
44.965	4.398	.15695	.04730	-.05824	-.23390	-.26655	-.25630	-.16482	-.18425	-.23579
	GRADIENT	-.00662	-.06013	-.00363	-.00069	-.00046	-.00019	-.00059	-.00236	-.00237

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH023)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 237/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
49.951	-.140	.18753	.32385	-.05060	-.23764	-.27259	-.26246	-.18428	-.23978	-.17361
49.970	2.539	.17216	.21996	-.04999	-.23021	-.25715	-.25068	-.17660	-.23829	-.16475
50.050	4.426	.15509	.07569	-.06427	-.24309	-.27662	-.25879	-.18907	-.24841	-.17124
GRADIENT		-.00701	-.05330	-.00278	-.00093	-.00043	.00104	-.00079	-.00173	.00071

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH024)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = .000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 241/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
2.790	.104	.23564	.23745	-.04870	-.22835	-.25618	-.24726	-.17864	-.22133	-.16541
3.147	2.378	.21811	.17780	-.04750	-.22360	-.24734	-.23817	-.17857	-.22684	-.16347
3.235	4.382	.20563	.11533	-.05669	-.22903	-.25515	-.24088	-.18756	-.22930	-.15713
GRADIENT		-.00703	-.02849	-.00181	-.00011	.00032	.00155	.00204	.00188	.00191

RUN NO. 242/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
7.214	-.107	.21260	.23060	-.03794	-.22103	-.25392	-.24368	-.17384	-.22426	-.16359
7.169	2.445	.20794	.19529	-.05058	-.22428	-.24532	-.23480	-.18032	-.22374	-.16225
7.223	4.433	.19637	.11872	-.05888	-.23243	-.25642	-.24240	-.18743	-.23270	-.15994
GRADIENT		-.00349	-.02415	-.00463	-.00246	-.00037	.00043	.00297	.00176	.00079

RUN NO. 243/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
9.900	-.036	.20747	.27553	-.05146	-.23119	-.26047	-.24822	-.18379	-.23811	-.17767
9.833	2.466	.20454	.19268	-.05338	-.22871	-.25268	-.23652	-.18696	-.22655	-.16245
9.797	4.354	.19323	.11468	-.05376	-.22166	-.25158	-.24295	-.18770	-.23621	-.16803
GRADIENT		-.00313	-.03646	-.00054	.00211	.00208	.00138	.00091	.00065	.00240

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ENH024)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 244/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	YYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.827	-.163	.20372	.26196	-.04015	-.21858	-.24930	-.23313	-.16629	-.16332	-.21750
14.725	2.499	.19826	.19936	-.04796	-.22496	-.24917	-.23841	-.16955	-.18542	-.22900
14.404	4.287	.18705	.12736	-.05973	-.22996	-.26094	-.24801	-.17474	-.19898	-.24020
GRADIENT		-.00362	-.02973	-.00429	-.00255	-.00241	-.00324	-.00185	-.00804	-.00504

RUN NO. 245/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.598	-.049	.19163	.26215	-.05094	-.23454	-.26620	-.25050	-.18025	-.17972	-.23374
29.897	2.432	.18310	.17927	-.05147	-.22574	-.25429	-.24621	-.17403	-.18211	-.23329
29.731	4.487	.16832	.08177	-.05829	-.23313	-.26115	-.25065	-.17306	-.19218	-.23825
GRADIENT		-.00508	-.03955	-.00157	.00042	.00124	.00003	.00162	.00269	-.00096

RUN NO. 246/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.528	-.131	.18776	.32597	-.05337	-.24299	-.27536	-.26145	-.19967	-.18736	-.23604
44.796	2.390	.17395	.17986	-.06342	-.23974	-.26650	-.25526	-.19265	-.19934	-.24616
44.981	4.445	.15623	.09304	-.06153	-.24027	-.26965	-.25240	-.17799	-.19417	-.24053
GRADIENT		-.00684	-.05117	-.00187	.00062	.00133	.00200	.00466	.00161	-.00110

RUN NO. 247/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
49.996	-.101	.18441	.27787	-.03985	-.22498	-.26450	-.24826	-.18926	-.17681	-.22580
50.084	2.534	.17052	.18151	-.05140	-.22993	-.25883	-.24613	-.17564	-.18266	-.23749
50.059	4.394	.15453	.08569	-.05471	-.23014	-.26464	-.24739	-.16574	-.18784	-.23877
GRADIENT		-.00655	-.04234	-.00338	-.00120	.00012	.00023	.00523	-.00244	-.00299

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ENH025) (21 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.209	-.039	.18097	.19263	-.04976	-.21516	-.24419	-.23700	-.21676	-.18613	-.22981
7.216	2.367	.16929	.11427	-.06063	-.22855	-.25513	-.24290	-.21128	-.18498	-.22855
7.326	4.353	.15413	-.01664	-.05876	-.22841	-.26180	-.24402	-.20767	-.19502	-.23029
GRADIENT		-.00618	-.04808	-.00216	-.00315	-.00410	-.00165	.00211	-.00199	-.00009

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.339	-.027	.17665	.18809	-.05489	-.22188	-.24873	-.23677	-.21709	-.18120	-.22799
10.040	2.372	.16620	.09575	-.06337	-.22483	-.25218	-.24183	-.21421	-.19429	-.23519
10.061	4.478	.14712	-.05353	-.05831	-.23013	-.25894	-.24494	-.20966	-.18515	-.22905
GRADIENT		-.00650	-.05328	-.00082	-.00182	-.00225	-.00182	.00164	-.00098	-.00030

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.643	-.013	.17315	.16798	-.04441	-.22111	-.24674	-.23325	-.21302	-.17174	-.21626
15.082	2.543	.16083	.07948	-.05129	-.22122	-.24565	-.23223	-.21021	-.18068	-.22417
14.801	4.374	.14445	-.08867	-.05787	-.23804	-.26626	-.24975	-.21966	-.20182	-.23564
GRADIENT		-.00643	-.05698	-.00518	-.00361	-.00414	-.00350	-.00135	-.00664	-.00433

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.827	-.162	.16562	.18782	-.05542	-.23288	-.25659	-.24513	-.23208	-.18012	-.23101
30.228	2.450	.15191	.08232	-.06457	-.23155	-.26287	-.25199	-.22703	-.19491	-.23898
30.232	4.437	.13007	-.09253	-.06295	-.23924	-.26880	-.25751	-.22419	-.19651	-.23574
GRADIENT		-.00760	-.05990	-.00173	-.00129	-.00264	-.00269	.00173	-.00367	-.00113

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.600	-.132	.16096	.20088	-.05136	-.22648	-.25619	-.24505	-.22727	-.17049	-.22276
45.018	2.364	.14511	.07147	-.05245	-.22788	-.25829	-.24160	-.21524	-.18671	-.23138
44.806	4.412	.12208	-.09910	-.06159	-.24041	-.27188	-.25547	-.21863	-.19362	-.23208
GRADIENT		-.00848	-.06551	-.00219	-.00298	-.00336	-.00216	.00201	-.00514	-.00210

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ENH025)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
49.823	-.233	.15949	.26019	-.05784	-.23477	-.26137	-.24860	-.23610	-.18555	-.23796
50.763	2.449	.14154	.05792	-.05140	-.22759	-.25906	-.24185	-.24194	-.18240	-.23324
50.761	4.339	.11985	-.06113	-.06956	-.24646	-.27585	-.26102	-.22731	-.20008	-.24565
GRADIENT		-.00854	-.07062	-.00223	-.00221	-.00290	-.00236	.00215	-.00289	-.00145

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (ENH027)   (21 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 261/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CFC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.310	.046	.13294	-.01531	-.00879	.00908	.00440	-.00384	-.24489	-.16628	-.21988
7.309	2.283	.13085	-.01665	-.02316	-.00665	-.00909	-.01883	-.24420	-.17413	-.23013
7.865	4.288	.11609	-.12989	-.02274	-.00139	-.00905	-.01289	-.22699	-.18044	-.22671
GRADIENT		-.00391	-.02650	-.00335	-.00255	-.00323	-.00222	.00415	-.00334	-.00167

RUN NO. 262/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.835	-.171	.12435	.00582	-.01647	-.00023	-.00240	-.00781	-.21944	-.17533	-.22350
9.901	2.437	.12418	-.04792	-.00980	.00417	-.00198	-.00569	-.21451	-.17505	-.22191
9.652	4.384	.11107	-.10371	-.02474	-.00664	-.01020	-.01816	-.18166	-.18001	-.22802
GRADIENT		-.00276	-.02286	-.00158	-.00124	-.00153	-.00210	.00794	-.00097	-.00090

RUN NO. 263/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.936	-.143	.12131	-.05493	-.01223	.00348	.00158	-.00627	.77182	-.16357	-.20959
14.990	2.462	.12002	-.09548	-.00850	.01148	.00190	-.00330	.79351	-.16447	-.20798
15.447	4.479	.10350	-.12241	-.02251	.00221	-.00496	-.01373	.72712	-.17227	-.21863
GRADIENT		-.00369	-.01464	-.00205	-.00103	-.00134	-.00148	-.00892	-.00181	-.00183

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (ENH027)   (21   )

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = .000
IORB   = 8.000   DX   = .000
DY   = .000   MACH   = .600

RUN NO. 264/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.711	-.161	.10760	-.04040	-.01634	.00070	-.00174	-.00498	.70498	-.16936	-.21938
29.841	2.529	.10811	-.09044	-.01512	.00441	-.00109	-.01044	.71135	-.17158	-.22107
30.092	4.385	.09352	-.12761	-.02140	.00111	-.00385	-.01235	.69650	-.18127	-.22405
GRADIENT		-.00286	-.01914	-.00100	-.00027	-.00041	-.00165	-.00156	-.00249	-.00100

RUN NO. 265/ 0   RN/L = 3.27   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.673	-.113	.10410	-.06477	-.00918	.00676	.00521	-.00203	.64763	-.16967	-.21447
44.791	2.534	.10403	-.08831	-.01338	.00335	.00335	-.00625	.63245	-.16915	-.21440
44.852	4.379	.08724	-.13571	-.02335	.00851	-.00851	-.01758	.62424	-.18058	-.23033
GRADIENT		-.00350	-.01531	-.00305	-.00325	-.00313	-.00333	-.00524	-.00225	-.00329

RUN NO. 266/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.205	-.137	.10048	-.03505	-.02095	-.00380	-.00489	-.01333	.57874	-.17305	-.22202
50.115	2.437	.10221	-.08441	-.01057	.00617	-.00068	-.01030	.59986	-.16977	-.21698
50.310	4.427	.08544	-.14077	-.02294	-.00423	-.00616	-.01634	.60276	-.17888	-.22151
GRADIENT		-.00311	-.02301	-.00022	.00010	-.00016	-.00057	.00540	-.00116	.00020

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (ENH028)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = .000
IORB   = 6.000   DX   = 10.000
DY   = .000   MACH   = .600

RUN NO. 281/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.140	2.460	.14765	.02195	-.00832	.01219	.00809	-.00285	.51581	-.16617	-.21541
3.154	4.481	.14917	.00936	-.01396	.00462	.00134	-.00604	.51346	-.16427	-.21947
GRADIENT		.00075	-.00623	-.00279	-.00375	-.00334	-.00158	-.00116	.00094	-.00201

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ENH02B)   (21 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA			
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	.000	ELEVON =	.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =	6.000	DX =	10.000
SCALE =	.0125		DY =	.000	MACH =	.600

RUN NO. 282/ 0   RN/L = 3.28

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 7.424	.12803	-.02080	.01673	-.00516	-.01109	-.01622	.47872	-.17400	-.23361
7.204	.13229	-.01215	-.00672	.00395	-.00123	-.00642	.49550	-.16145	-.21822
ALPHAC 2.022									
4.410									
GRADIENT	.00178	.00362	-.00982	.00381	.03413	.00410	.00703	.00526	.00645

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 283/ 0   RN/L = 3.28

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 9.851	.12155	-.02534	-.01071	-.00910	-.01452	-.01993	.45875	.17714	-.22395
9.970	.12652	-.01605	-.02953	.00093	-.03592	-.01277	.48640	-.17632	-.22728
ALPHAC 2.068									
4.488									
GRADIENT	.00205	.00384	-.00778	.00415	.00355	.00296	.01143	.00034	.00138

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 284/ 0   RN/L = 3.28

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 14.671	.11436	-.02211	-.01348	-.00616	-.01184	-.01643	.45397	-.17783	-.23487
14.337	.12089	-.01428	-.03099	.00077	-.00580	-.01045	.48521	-.17193	-.22147
ALPHAC 2.026									
4.481									
GRADIENT	.00266	.00319	-.00713	.00282	.00246	.00244	.01273	.00240	.00546

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 285/ 0   RN/L = 3.29

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 29.878	.10916	-.02739	-.03385	-.00928	-.01334	-.02036	.45991	-.17496	-.22793
29.674	.11376	-.01107	-.05228	.00205	-.00260	-.00971	.49235	-.17560	-.22097
ALPHAC 2.180									
4.515									
GRADIENT	.00197	.00699	-.00763	.00485	.00460	.00456	.01389	.00027	.00298

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 286/ 0   RN/L = 3.29

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 44.780	.10626	-.02484	-.05110	-.01186	-.01402	-.01916	.46432	-.17852	-.23209
45.100	.10777	-.01781	-.06221	-.00027	-.00548	-.01397	.48432	-.18090	-.22639
ALPHAC 2.093									
4.521									
GRADIENT	.00062	.00290	-.00457	.00477	.03352	.00214	.00824	-.00098	.00235

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 287/ 0   RN/L = 3.29

	XZCP	CPC	XYCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 50.200	.10505	-.02579	-.03977	-.00436	-.01060	-.02226	.46364	-.17627	-.23240
50.258	.10677	-.01837	-.07546	-.00277	-.00469	-.01235	.49071	-.17794	-.22858
ALPHAC 2.061									
4.539									
GRADIENT	.00069	.00299	-.01440	.00064	.00239	.00400	.01092	-.00067	.00154

GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA238) 747/1 ATI 03S1 (ORBITER DATA)   (ENH029)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	8.000	DX = 10.000
DY =	.000	MACH = .600

RUN NO. 291/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.465	.12314	-.02321	-.00428	.00852	.00253	-.00238	.51832	-.15706	-.20935
4.442	.11163	-.07077	-.01270	-.00016	-.00179	-.00370	.52196	-.17056	-.21854
GRADIENT	-.03582	-.02101	-.00426	-.00439	-.00218	-.00057	.00184	-.00683	-.00465

DZ
7.274
7.616

RUN NO. 292/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.057	.11726	-.03352	-.01204	.00406	.00161	-.00385	.51619	-.16456	-.21721
4.486	.10479	-.09527	-.01482	.00126	-.00228	-.00774	.52168	-.16803	-.21737
GRADIENT	-.00513	-.02542	-.00115	-.00115	-.00160	-.00160	.00226	-.00143	-.00007

DZ
10.037
10.105

RUN NO. 293/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.020	.11089	-.06465	-.01991	-.00158	-.00455	-.01263	.50092	-.17465	-.22398
4.412	.09969	-.13034	-.01527	-.00245	-.00355	-.01036	.51578	-.17129	-.22120
GRADIENT	-.00468	-.02746	-.00194	-.00037	.00042	.00095	.00621	.00140	.00116

DZ
15.073
14.864

RUN NO. 294/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.128	.10335	-.08440	-.02098	-.00614	-.01019	-.02422	.49745	-.18201	-.22895
4.510	.08836	-.14181	-.02382	-.00364	-.00473	-.01482	.51423	-.17817	-.22698
GRADIENT	-.00630	-.02410	-.00119	.00105	.00229	.00395	.00704	.00161	.00082

DZ
30.231
29.953

RUN NO. 295/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.087	.10152	-.08143	-.02322	-.00518	-.01084	-.01757	.50090	-.17693	-.22538
4.446	.08468	-.13930	-.02098	.00135	-.03791	-.01172	.51559	-.17452	-.22651
GRADIENT	-.00718	-.02453	.00095	.00277	.00124	.00248	.00623	.00102	-.00048

DZ
44.559
45.001

RUN NO. 296/ 0   RN/L = 3.28   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.027	.10004	-.05923	-.02290	-.00802	-.01262	-.01857	.49083	-.17953	-.22958
4.547	.08291	-.11585	-.02372	-.00811	-.00894	-.01687	.51115	-.18084	-.22354
GRADIENT	-.00703	-.02247	-.00033	-.00004	.00146	.00067	.00806	-.00052	.00240

DZ
50.108
50.709

ARC 14-120(CA23B)　747/1 AT1 O3S1 (ORBITER DATA)　　(ENH030)　(21 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000 DX = 20.000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 301/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.474	.10962	.00071	-.01570	.00050	.00133	-.00444	.49915	-.16727	-.22026
4.355	.09929	-.05336	-.01111	.00480	-.00315	-.00754	.50432	-.16884	-.21410
GRADIENT	-.00549	-.02876	.00244	.00229	-.00238	-.00165	.00275	-.00084	-.00328

DZ
7.146
7.541

RUN NO. 302/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.021	.10567	-.00953	-.01844	-.00276	-.00709	-.01331	.48539	-.17332	-.22279
4.495	.09514	-.07767	-.01511	.00352	.00105	-.00772	.50623	-.17291	-.21839
GRADIENT	-.00426	-.02754	.00134	.00254	.00329	.00226	.00842	.00016	.00178

DZ
10.020
10.077

RUN NO. 303/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.172	.10061	-.02578	-.02040	-.00767	-.01201	.99979	.48550	-.18046	-.22840
4.441	.09238	-.07888	-.01719	.00060	.00268	-.00761	.50540	-.17542	-.21785
GRADIENT	-.00363	-.02341	.00142	.00365	.00411	.44411	.00877	.00222	.00465

DZ
14.887
14.608

RUN NO. 304/ 0　RN/L = 3.28　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.934	.10061	-.05480	-.02130	-.00536	-.00941	-.01725	.48735	-.17779	-.22968
4.549	.08430	-.12193	-.02340	-.00992	-.01322	-.02230	.50240	-.18317	-.23130
GRADIENT	-.00596	-.02567	-.00080	-.00175	-.00146	-.00193	.00576	-.00206	-.00062

DZ
30.123
29.781

RUN NO. 305/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.080	.09841	-.09409	-.02599	-.00605	-.01521	-.02033	.48584	-.17747	-.23110
4.413	.08448	-.13007	-.03670	.01590	-.02022	-.02292	.49384	-.18608	-.23227
GRADIENT	-.00597	-.01542	-.00459	-.00422	-.00215	-.00111	-.00086	-.00369	-.00050

DZ
44.889
44.724

RUN NO. 306/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.067	.09893	-.06433	-.02127	-.01046	-.01343	-.01965	.49112	-.18009	-.22925
4.416	.08145	-.13563	-.01493	.00117	-.00456	-.01057	.50632	-.17431	-.22234
GRADIENT	-.00744	-.03055	.00270	.00495	.00378	.00387	.00647	.00246	.00294

DZ
50.425
50.408

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ENH031) (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 311/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.139	2.440	.10679	.02051	-.02777	-.00881	-.01829	-.02343	.49203	-.18406	-.23201
7.034	4.374	.11226	-.00839	-.01018	.00212	-.00253	-.00881	.51594	-.17025	-.21942
	GRADIENT	.00283	-.01494	.00909	.00565	.00815	.00756	.01236	.00714	.00651

RUN NO. 312/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.707	1.989	.10124	.01033	-.01363	.00170	.00061	-.00651	.51664	-.17022	-.22031
9.890	4.549	.10873	-.01352	-.01677	.00241	-.00307	-.01102	.52437	-.17487	-.22254
	GRADIENT	.00293	-.00932	-.00123	.00028	-.00144	-.00176	.00302	-.00182	-.00087

RUN NO. 313/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.857	1.961	.09879	.00899	-.01967	-.00886	1.13782	-.02156	.50489	-.18209	-.23317
14.654	4.524	.10571	-.00215	-.01605	-.00073	-.00291	-.01304	.52923	-.17309	-.22316
	GRADIENT	.00270	-.00434	.00141	.00317	-.44508	.00333	.00950	.00351	.00391

RUN NO. 314/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.665	1.982	.10062	-.02280	-.01057	.00229	.00010	-.01002	.53188	-.16931	-.22186
29.802	4.262	.10556	-.07327	-.01938	-.00216	-.00325	-.01282	.54395	-.17381	-.22109
	GRADIENT	.00217	-.02213	-.00386	-.00195	-.00147	-.00123	.00529	-.00197	.00034

RUN NO. 315/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.676	1.970	.10089	-.03558	-.02007	-.00305	-.01250	-.02007	.54531	-.17647	-.23103
44.732	4.370	.10538	-.06215	-.01657	-.00016	-.00426	-.00727	.57868	-.17195	-.22064
	GRADIENT	.00187	-.01107	.00146	.00120	.00343	.00533	.01391	.00188	.00433

RUN NO. 316/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.207	2.003	.10073	-.03911	-.01761	-.00174	-.00147	-.00831	.66614	-.16721	-.22355
50.098	4.371	.10544	-.08155	-.01655	-.00313	-.00234	-.00971	.69475	-.16984	-.22395
	GRADIENT	.00199	-.01792	.00045	.00206	-.00037	-.00059	.01208	-.00111	-.00017

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)

(ENH032) (21 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	6.000	DX = .000
DY =	10.000	MACH = .600

RUN NO. 321/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.384	.15884	-.27113	-.02064	.00047	-.00255	-.01022	.69567	-.16894	-.22624
4.324	.16349	-.39356	-.01848	-.00401	-.00592	-.01684	.68434	-.16947	-.23391
DZ	.00240	-.06309	.00111	-.00231	-.00174	-.00341	-.00584	-.00027	-.00395
3.217									
3.310									
GRADIENT									

RUN NO. 322/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.999	.13827	-.21501	-.01572	.00341	-.00233	-.00725	.64737	-.16714	-.22181
4.379	.14337	-.37722	-.02549	-.00935	-.01564	-.01920	.65715	-.17160	-.22550
DZ	.00214	-.06813	.00410	-.00536	-.00559	-.00502	.00411	-.00187	-.00155
7.247									
7.563									
GRADIENT									

RUN NO. 323/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.980	.13536	-.17505	-.01769	.00387	-.00186	-.00814	.64763	-.16642	-.22564
4.357	.14149	-.43025	-.03540	-.01759	-.02164	-.02812	.63642	-.18386	-.24270
DZ	.00257	-.10692	-.00742	-.00899	-.00828	-.00837	-.00470	-.00731	-.00715
10.032									
9.896									
GRADIENT									

RUN NO. 324/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.049	.13053	-.16867	-.01543	.00396	-.00068	-.00833	.65000	-.16840	-.22522
4.248	.13569	-.37539	-.02378	-.00495	-.00905	-.01696	.65698	-.17085	-.22869
DZ	.00235	-.09397	-.00380	-.00405	-.00380	-.00392	.00317	-.00111	-.00158
15.217									
15.047									
GRADIENT									

RUN NO. 325/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.975	.11964	-.09348	-.02517	-.01247	-.01599	-.02247	.62539	-.18342	-.23635
4.251	.12430	-.20132	-.02306	-.00531	-.00750	-.01487	.66110	-.17649	-.23000
DZ	.00201	-.04637	.00091	-.00308	.00365	.00327	.01536	.00298	.00273
29.998									
29.890									
GRADIENT									

RUN NO. 326/ 0 RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.958	.11307	-.10778	-.01299	.00203	-.00206	-.00725	.64727	-.16699	-.22078
4.325	.11617	-.18028	-.02275	-.00395	-.00694	-.01539	.65317	-.17749	-.22735
DZ	.00131	-.03063	-.00412	-.00253	-.00206	-.00344	.00249	-.00444	-.00277
44.648									
44.989									
GRADIENT									

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (ENH032) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =		STAB =	.000
RUDDER =		ELEVON =	.000
IORB =		DX =	6.000
DY =		MACH =	10.000
			5.000
			.000
			.000
			.600

RUN NO. 327/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
49.978	1.969	.11155	-.09072	-.02791	-.00907	-.01283	-.02172	.61912	-.17594	-.23165
50.163	4.264	.11414	-.16074	-.03013	-.01320	-.01696	-.02744	.62663	-.18249	-.23381
	GRADIENT	.00113	-.03051	-.00097	-.00180	-.00180	-.00249	.00327	-.00286	-.00094

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (ENH033) (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =		STAB =	.000
RUDDER =		ELEVON =	.000
IORB =		DX =	8.000
DY =		MACH =	10.000
			5.000
			.000
			.000
			.600

RUN NO. 331/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.500	2.446	.12901	-.31596	-.01358	.00463	-.00108	-.00842	.71335	-.16636	-.21720
7.613	4.292	.11918	-.44126	-.01671	.00289	-.00419	-.01290	.71598	-.16701	-.22391
	GRADIENT	-.00533	-.06790	-.00170	-.00094	-.00168	-.00243	.00143	-.00035	-.00364

RUN NO. 332/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.263	1.907	.12541	-.24002	-.01297	.00443	-.00210	-.00400	.70765	-.16199	-.21393
9.859	4.322	.11570	-.39906	-.01931	.00518	-.00953	-.00871	.71427	-.17158	-.22269
	GRADIENT	-.00402	-.06585	-.00262	-.00398	-.00308	-.00195	.00274	-.00397	-.00363

RUN NO. 333/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
15.012	1.933	.12165	-.19725	-.02331	-.00772	-.00907	-.01552	.68596	-.16872	-.22301
14.957	4.327	.10978	-.35072	-.03217	-.01496	-.02007	-.02840	.69286	-.18062	-.23655
	GRADIENT	-.00496	-.06410	-.00370	-.00302	-.00459	-.00538	.00288	-.00497	-.00566

RUN NO. 334/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.834	1.958	.11430	-.12596	-.00963	.00556	.00040	-.00828	.70209	-.16783	-.21395
29.957	4.362	.09725	-.28700	-.02337	-.00244	-.00815	-.01087	.70889	-.17260	-.22669
	GRADIENT	-.00709	-.06698	-.00571	-.00333	-.00356	-.00108	.00283	-.00198	-.00530

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ENH033)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	10.000	MACH =	.600

RUN NO. 335/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.819	1.871	.10980	-.15746	-.02786	-.00866	-.01353	-.01623	.68229	-.17849	-.22230
45.000	4.278	.09813	-.20813	-.02027	-.00384	-.00439	-.01233	.70769	-.17502	-.22048
GRADIENT		-.00734	-.02106	.00315	.00200	.00380	.00162	.01056	.00144	.00076

RUN NO. 336/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
50.002	1.913	.10835	-.12714	-.00969	.00314	.00150	-.00805	.70147	-.16496	-.21627
50.443	4.260	.09014	-.17695	-.02295	-.00518	-.00846	-.01311	.70455	-.17544	-.22245
GRADIENT		-.00776	-.02122	-.00565	-.00354	-.00424	-.00215	.00131	-.00446	-.00263

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ENH034)   (21 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 341/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.515	-.031	.19185	-.05120	-.00048	.01212	.01185	.00007	.02336	-.16405	-.20076
1.466	2.265	.18497	-.05838	-.00745	.01003	.00593	-.00281	.03107	-.16426	-.20142
1.364	4.259	.18342	-.07181	-.02443	-.00771	-.00960	-.02119	.02707	-.18214	-.21907
GRADIENT		.00039	-.00476	-.00552	-.00453	-.00494	-.00466	.00093	-.00411	-.00417

RUN NO. 342/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.218	-.127	.16942	-.05713	.00100	.01546	.01300	.00482	.05282	-.15198	-.19534
2.877	2.724	.17815	-.03246	.00619	.00746	.00719	.00364	.04675	-.16173	-.19938
3.380	4.353	.17626	-.06313	-.01491	.00504	.00176	-.00698	.04602	-.17365	-.20862
GRADIENT		.00160	-.00095	-.00353	-.00236	-.00250	-.00256	.00155	-.00481	-.00292

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (ENHO34)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 343/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.400	-.285	.14533	-.05239	-.02025	-.00242	-.00512	-.00647	.04943	-.17338	-.20687
7.390	2.312	.15567	-.06065	-.01224	.00116	.00034	-.00677	.05831	-.16947	-.21048
7.046	4.212	.16003	-.07278	-.01425	.00185	.00021	-.00688	.04985	-.17462	-.21198
GRADIENT		.00331	-.00446	.00144	.00097	.00124	-.00009	.00029	-.00017	-.00115

RUN NO. 344/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.858	-.243	.13489	-.04912	-.01005	.00314	-.00062	-.00682	.05592	-.17079	-.21117
9.870	2.334	.14836	-.06056	-.00966	.00564	-.00228	-.00748	.05756	-.16925	-.20887
9.840	4.253	.15145	-.08566	-.01778	-.00085	.00467	.01150	.04857	-.18052	-.21547
GRADIENT		.00377	-.00792	-.00162	-.00079	-.00089	-.00100	-.00151	-.00201	-.00085

RUN NO. 345/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.745	-.254	.12039	-.06512	-.01305	-.00038	-.00092	-.00604	.05946	-.17073	-.21062
14.663	2.332	.13633	-.06986	-.01119	.00222	-.00106	-.00790	.05584	-.17725	-.21254
14.715	4.248	.14095	-.07251	-.01493	.00173	-.00482	.01028	.05416	-.17849	-.21699
GRADIENT		.00466	-.00165	-.00035	.00050	-.00082	-.00093	-.00119	-.00177	-.00138

RUN NO. 346/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.743	-.267	.10561	-.06330	-.00605	.00738	.00601	-.00386	.06960	-.16641	-.20616
29.911	2.360	.12620	-.05607	-.01089	.00558	-.00025	-.00734	.06362	-.16866	-.21124
29.627	4.269	.12623	-.12378	-.01634	.00200	-.00375	-.00867	.06221	-.17809	-.21996
GRADIENT		.00475	-.01236	-.00224	-.00113	-.00217	-.00108	-.00167	-.00247	-.00298

RUN NO. 347/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.607	-.235	.10088	-.10242	-.00941	.01002	.00400	-.00065	.06555	-.16506	-.20199
44.784	2.345	.11885	-.08751	-.01107	.00452	.00233	-.00569	.06741	-.16775	-.21314
44.631	4.291	.11827	-.12987	-.02478	.00941	-.01130	.01885	.05018	-.18790	-.23077
GRADIENT		.00401	-.00544	-.00325	-.00418	-.00323	-.00393	-.00318	-.00483	-.00625

TABULATED SOURCE DATA - CA238

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ENH034)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA   =   .000   STAB   = 5.000
RUDDER =   .000   ELEVON =   .000
IORB   = 6.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 348/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
49.960	-.239	.09978	-.08283	-.00607	.00511	.00783	-.00171	-.16504	-.20131	.06155
50.084	2.361	.11706	-.07557	-.00796	.00457	.00648	-.00115	-.17169	-.20575	.06642
50.051	4.269	.11689	-.10339	-.01990	.00111	-.00325	-.00980	-.17349	-.21932	.06304
GRADIENT		.00396	-.00413	-.00293	-.00085	-.03235	-.00168	-.00191	-.00386	.00042

RUN NO. 349/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
61.655	-.279	.09838	-.07170	-.00764	.00846	.00491	-.00218	-.15689	-.20300	.06085
61.629	2.289	.11400	-.08961	-.00993	.00694	.00231	-.00041	-.16754	-.20565	.06138
61.640	4.275	.11172	-.10658	-.01696	.00051	-.00304	-.00577	-.17877	-.21998	.05836
GRADIENT		.00308	-.00763	-.00199	-.00169	-.00171	-.00072	-.00477	-.00360	-.00051

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ENH035)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA   =   .000   STAB   = 5.000
RUDDER =   .000   ELEVON =   .000
IORB   = 4.000   DX   =   .000
DY   =   .000   MACH   =   .600

RUN NO. 351/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
3.392	.007	.23936	-.01376	-.02233	-.00743	-.00607	-.01447	-.17893	-.22363	-.21333
3.273	2.270	.19574	-.01746	-.03863	-.02368	-.02848	-.03142	-.19613	-.24632	-.22016
3.233	4.244	.18192	-.02353	-.04198	-.02517	-.03211	-.03798	-.19812	-.24963	-.21974
GRADIENT		-.01369	-.00229	-.00470	-.00426	-.00624	-.00560	-.00460	-.00623	-.00155

RUN NO. 352/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPS1	CPS2	CPE3
7.633	-.212	.18137	-.00348	.03012	-.01620	.01513	-.02289	.18438	-.23580	-.22349
7.582	2.387	.15964	-.00204	-.02853	-.01149	-.01690	-.02258	.18542	-.23601	-.21382
7.362	4.282	.15714	-.03925	-.04009	-.01871	-.02061	-.02954	-.19595	-.24195	-.21976
GRADIENT		-.00557	-.00745	-.00205	-.00042	-.00119	-.00138	-.00244	-.00129	.00100

ARC 14-120(CA23B)   747/1 ATI O3S1 (ORBITER DATA)   (ENH035)   (2) ( )

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 353/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.664	-.213	.16352	.00535	-.02364	-.00634	-.00418	-.01243	-.21038	-.17335	-.22119
9.916	2.313	.14473	.01447	-.03015	-.01477	-.01882	-.02422	-.21880	-.18452	-.23121
9.803	4.259	.14843	-.01354	-.03534	-.01348	-.01968	-.02643	-.21597	-.19653	-.24432
GRADIENT		-.00357	-.00384	-.00262	-.00168	-.00358	-.00311	-.00135	-.00515	-.00511

RUN NO. 354/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
15.113	-.270	.13553	-.00320	-.02787	-.01694	-.01534	-.02173	-.22277	-.18917	-.23397
14.808	2.324	.13056	-.03946	-.03150	-.01260	-.01638	-.02259	-.21939	-.19294	-.23829
14.693	4.304	.13713	-.01397	-.04681	-.03055	-.03401	-.03508	-.22732	-.20039	-.25371
GRADIENT		-.00023	-.00294	-.00400	-.00274	-.00390	-.00279	-.00088	-.00240	-.00418

RUN NO. 355/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.891	-.272	.11088	-.02424	-.02823	-.01734	-.01575	-.02452	-.22774	-.18019	-.23066
29.979	2.346	.11185	-.02067	-.03234	-.01240	-.01779	-.02426	-.22095	-.18916	-.23739
29.891	4.294	.12485	-.06359	-.03550	-.01934	-.02580	-.03227	2.21721	-.19287	-.24838
GRADIENT		.00291	-.00806	-.00159	-.00031	-.00212	-.00160	.50584	-.00281	-.00381

RUN NO. 356/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.449	-.271	.10183	-.06093	-.02470	-.01160	-.01587	-.02363	-.22546	-.18349	-.23348
44.799	2.322	.10410	-.08030	-.02942	-.01190	-.01810	-.02457	-.22528	-.19376	-.24279
44.865	4.260	.11545	-.10573	-.03239	-.01406	-.01622	-.01891	-.21995	-.19112	-.23801
GRADIENT		-.00289	-.00975	-.00170	-.00052	-.00012	.00096	.00115	-.00181	-.00114

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (ENH036)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN.   YO   RUDDER = 10.000   ELEVON =   .000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 361/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.302   .17695   -.06318   -.04248   -.02300   -.02620   -.03368   -.20178   -.19457   -.23406
4.194   .17335   -.05594   -.03415   -.01661   -.02335   -.03037   -.20227   -.19499   -.23142
GRADIENT   -.00190   .00177   .00440   .00338   .00151   .00175   -.00026   -.00022   .00140
DZ
1.654
2.469

RUN NO. 352/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.012   .16907   -.06262   -.03937   -.02255   -.02496   -.03296   -.20831   -.19069   -.23580
4.405   .16821   -.04781   -.03756   -.02133   -.02323   -.03351   -.20581   -.19283   -.23313
GRADIENT   -.00036   .00519   .00075   .00051   .00072   -.00023   .00104   -.00089   .00111
DZ
2.877
3.365

RUN NO. 363/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.013   .14649   -.02173   -.03739   -.02218   -.02805   -.03072   -.20790   -.18869   -.24046
4.376   .15013   -.05107   -.03711   -.02168   -.02411   -.03088   -.20906   -.19634   -.23587
GRADIENT   .00154   .01241   .00012   .00021   .00166   -.00007   -.00049   .00324   .00194
DZ
7.393
7.226

RUN NO. 364/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.049   .13756   -.00731   -.03986   -.02298   -.03129   -.03745   -.21589   -.19981   -.24562
4.457   .14154   -.06653   -.03416   -.01953   -.02360   -.03145   -.21076   -.19857   -.23730
GRADIENT   .00165   -.02463   .00237   .00143   .00319   .00249   .00213   .00052   .00346
DZ
9.858
10.104

RUN NO. 365/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.097   .12892   -.02256   -.04065   -.01923   -.02110   -.03208   -.21363   -.20426   -.24095
4.474   .13321   -.06033   -.05109   -.03475   -.03529   -.04252   -.21822   -.20563   -.24955
GRADIENT   .00180   -.01589   -.00439   -.00653   -.00597   -.00439   -.00193   -.00058   -.00362
DZ
14.553
14.643

RUN NO. 366/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
2.159   .11685   -.04814   -.04159   -.02764   -.02845   -.03998   -.21614   -.19951   -.24348
4.411   .11826   -.07156   -.03785   -.01906   -.02427   -.03079   -.20545   -.19621   -.24347
GRADIENT   .00053   -.02240   .00166   .00355   .00186   .00408   .00475   .00147   .00000
DZ
29.819
29.992

ARC 14-120(CA238) 747/1 AT1 O3S1 (ORBITER DATA)   (ENH036)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =		STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	10.000	DX =	.000
DY =	6.000	MACH =	.600

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
45.057	2.052	.10875	-.05044	-.04049	-.02760	-.03243	-.03619	-.18874	-.20002	-.24352
44.937	4.371	.11163	-.07170	-.03370	-.01367	-.01719	-.02693	-.16091	-.19149	-.23804
	GRADIENT	.00124	-.00917	.00293	.00600	.00657	.00399	.01200	.00368	.00236

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CFB2	CPB3	CPE3	CPS1	CPS2
50.129	2.015	.10592	-.03370	-.04266	-.02360	-.02870	-.03568	-.15248	-.19571	-.24055
50.420	4.439	.10784	-.10445	-.03373	-.01739	-.02447	-.02910	-.13937	-.19682	-.24229
	GRADIENT	.00079	-.02918	.00368	.00256	.00174	.00271	.00541	-.00046	.00072

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
62.057	2.140	.10533	-.03261	-.04483	-.02496	-.02953	-.03490	-.13583	-.19568	-.24749
61.853	4.416	.10468	-.07242	-.03452	-.01900	-.02227	-.02554	-.12359	-.19576	-.24315
	GRADIENT	-.00029	-.01748	.00453	.00262	.00319	.00411	.00538	-.00003	.00191

ARC 14-120(CA238) 747/1 AT1 O3S1 (ORBITER DATA)   (ENH037)   (21 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =		STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
1.955	.521	.17910	-.02908	-.03464	-.01927	-.02112	-.02669	-.05689	-.18380	-.22592
1.879	2.297	.18212	-.06215	-.03645	-.02029	-.02559	-.03380	-.05791	-.19040	-.23518
1.932	4.335	.17997	-.06523	-.02968	-.01391	-.01979	-.02701	-.04651	-.18868	-.23224
	GRADIENT	.00020	-.00928	.00135	.00145	.00041	.00000	.00279	-.00123	.00158

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (ENH037)   (21 OCT 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.073	3.611	.16521	.01545	-.03239	-.01703	-.01968	-.02762	-.05490	-.18677	-.22172
2.415	3.412	.17561	-.03342	-.02902	-.00816	-.01618	-.02421	-.04373	-.18199	-.22398
4.372	3.341	.17384	-.02790	-.03292	-.01445	-.01740	-.02650	-.04469	-.18841	-.23524
GRADIENT		.00204	-.01019	-.00005	.00071	.00055	.00030	.00239	-.00027	-.00295

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.184	7.238	.14046	-.01276	-.03460	-.01870	-.01790	-.02586	-.05873	-.18808	-.22069
2.515	7.611	.15435	-.00908	-.03095	-.01460	-.01648	-.02452	-.04490	-.18700	-.22855
4.363	7.497	.15516	-.06922	-.03350	-.01632	-.02196	-.03323	-.04880	-.19346	-.23641
GRADIENT		.00337	-.01141	.00032	.00060	-.00079	-.00147	.00240	-.00107	-.00342

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.096	10.003	.12974	-.02340	-.02743	-.00726	-.00915	-.01829	-.04759	-.17584	-.22289
2.401	9.942	.14696	-.03078	-.04218	-.02441	-.02388	-.03131	-.05623	-.19413	-.23709
4.474	10.030	.14745	-.06148	-.04026	-.01739	-.02385	-.02708	-.04725	-.19275	-.23794
GRADIENT		.00398	-.00815	-.00291	-.00237	-.00331	-.00203	-.00004	-.00382	-.00337

RUN NO. 375/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
.036	14.990	.11763	-.01408	-.03375	-.02128	-.02260	-.03056	-.06427	-.19032	-.23597
2.374	14.729	.13520	-.02907	-.03976	-.02200	-.02650	-.03578	-.05964	-.19510	-.23566
4.458	14.795	.13796	-.10096	-.03379	-.01578	-.01793	-.02653	-.04938	-.19129	-.23510
GRADIENT		.03466	-.01938	-.00006	.00121	.00100	.00085	.00334	-.00025	.00020

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DZ	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
-.037	29.795	.10216	-.02822	-.03832	-.02453	-.02612	-.03381	-.06537	-.19347	-.23564
2.359	29.929	.12177	-.03354	-.04601	-.02634	-.02820	-.03112	-.05770	-.19060	-.23498
4.506	30.138	.12310	-.08135	-.03737	-.02153	-.02019	-.02771	-.05321	-.19627	-.23412
GRADIENT		.00458	-.01152	-.00014	.00063	.00126	.00134	.00269	-.00058	.00033

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ENH037)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
45.027   -.096   .09493   -.05207   -.03737   -.02222   -.02487   -.03259   -.06769   -.18897   -.22700
44.952   2.497   .11698   -.04751   -.02611   -.00950   -.00575   -.01566   -.05235   -.18330   -.22320
44.914   4.260   .11431   -.09743   -.03458   -.01603   -.01899   -.03055   -.05502   -.19162   -.23545
       GRADIENT   .00475   -.00951   .00092   .00168   .00180   .00092   .00313   -.00040   -.00168

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
50.481   .036   .09390   -.04897   -.03682   -.02032   -.02404   -.02910   -.07088   -.18584   -.23348
50.592   2.316   .11257   -.05467   -.03314   -.01697   -.02047   -.02883   -.05875   -.18977   -.23533
50.369   4.524   .11160   -.13541   -.03587   -.01888   -.02185   -.02778   -.06014   -.19901   -.24323
       GRADIENT   .00397   -.01917   .00022   .00033   .00050   .00029   .00241   -.00293   -.00217

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
61.632   -.013   .09106   -.08061   -.04170   -.02305   -.02411   -.03237   -.07501   -.19413   -.23064
61.965   2.379   .10863   -.07173   -.02970   -.01271   -.02026   -.02511   -.05639   -.18313   -.22028
61.651   4.408   .10863   -.11748   -.04635   -.02799   -.03385   -.04023   -.06844   -.19455   -.24697
       GRADIENT   .00407   -.00798   -.00087   -.00096   .00209   .00163   .00167   .00004   -.00353

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ENH038)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   5.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAC   XZCP   XYCP   CPC   CPB1   CPB2   CPB3   CPE3   CPS1   CPS2
1.603   .046   -.00363   .17448   -.04339   -.03078   -.03373   -.04446   -.05733   -.20054   -.25149
1.569   2.293   .02522   .14641   -.04939   -.02951   -.03461   -.04455   -.05046   -.20386   -.25436
2.306   4.387   .04051   .15066   -.05313   -.03325   -.03943   -.05151   -.01821   -.20597   -.25674
       GRADIENT   .01020   -.00557   -.00225   -.00055   -.00130   -.00161   .00894   -.00125   -.00121

ARC 14-120(CA23B)   747/1 AT1 O3S1   (ORBITER DATA)   (ENHO38)   (21 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = 5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = 5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   = .000   MACH   =   .600

RUN NO. 382/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.468	.019	-.00569	.21179	-.05166	-.03762	-.03947	-.04742	-.02516	-.20141	-.25336
3.699	2.422	.01873	.21371	-.04925	-.03499	-.03472	-.03817	-.01858	-.20365	-.24858
3.469	4.425	.03512	.20435	-.05558	-.03297	-.03889	-.04750	-.02006	-.20706	-.25684
GRADIENT		.00929	-.00161	-.00083	.00105	.00019	-.00003	.00121	-.00127	-.00070

RUN NO. 383/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.736	-.027	-.02534	.25328	-.05963	-.03809	-.04660	-.05511	-.03756	-.20272	-.24820
6.902	2.422	.00520	.27408	-.05061	-.02938	-.03798	-.04765	-.02831	-.20189	-.24864
7.339	4.419	.02182	.25770	-.06405	-.04404	-.04810	-.05945	-.04107	-.21682	-.26577
GRADIENT		.01068	.00127	-.00082	-.00116	-.00019	-.00083	-.00062	-.00304	-.00381

RUN NO. 384/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
10.309	.047	-.03302	.28360	-.05936	-.04152	-.04738	-.05803	-.05697	-.21354	-.25828
9.703	2.409	-.00174	.29107	-.05542	-.02923	-.04165	-.04651	-.04219	-.21120	-.25871
10.031	4.489	.01660	.28229	-.05763	-.04248	-.04952	-.05736	-.04708	-.21185	-.25812
GRADIENT		.01121	-.00022	.00042	-.00009	-.00042	.00026	.00232	.00039	.00003

RUN NO. 385/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
15.037	-.141	-.04571	.26560	-.06331	-.04379	-.04619	-.05716	-.05930	-.21309	-.26498
14.866	2.495	-.00616	.29899	-.05432	-.03485	1.52493	-.04729	-.04269	-.20525	-.25719
14.876	4.418	.01206	.30657	-.05985	-.04092	-.04335	-.05552	-.04173	-.20862	-.26110
GRADIENT		.01281	.00921	.00092	.00079	.03618	.00056	.00400	.00110	.00098

RUN NO. 386/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
30.004	-.165	-.05007	.26354	-.05829	-.04175	-.04441	-.05802	-.06336	-.21035	-.25650
29.816	2.497	-.01123	.29600	-.05217	-.03383	-.03760	-.04543	-.04839	-.20671	-.25202
30.280	4.402	.00602	.30292	-.06578	-.04473	-.03496	-.06419	-.05459	-.21399	-.26757
GRADIENT		.01243	.00746	-.00139	-.00042	-.00198	-.00096	.00216	-.00066	-.00216

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (ENH038)   (21 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO	BETA =	.000	STAB =	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO	RUDDER =	.000	ELEVON =	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO	IORB =	6.000	DX =	.000
SCALE	=	.0125					DY =	.000	MACH =	.600

RUN NO. 387/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.879	.070	-.05005	.27151	-.05732	-.04184	-.04290	-.05038	-.05786	-.20340	-.25521
44.946	2.481	-.01414	.29936	-.05328	-.03383	-.04156	-.04842	-.04626	-.20730	-.26134
44.926	4.448	-.00295	.27974	-.06179	-.03960	-.04718	-.05394	-.05340	-.21682	-.26661
	GRADIENT	.01221	.00224	-.00092	.00061	-.00092	-.00075	.00116	-.00301	-.00260

RUN NO. 388/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
49.971	-.037	-.05368	.23012	-.05759	-.04177	-.05116	-.05786	-.06350	-.21426	-.26470
50.192	2.513	-.01436	.28641	-.05417	-.03732	-.04058	-.04738	-.05091	-.21502	-.26501
50.609	4.284	-.00119	.27640	-.05649	-.03336	-.03930	-.05350	-.04915	-.20996	-.26574
	GRADIENT	.01289	.01151	.00033	.00193	.00271	.00123	.00343	.00091	-.00023

RUN NO. 389/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
61.515	-.115	-.06116	.25528	-.06214	-.04738	-.04845	-.05865	-.06536	-.21243	-.25939
60.520	2.529	-.01802	.30859	-.05639	-.03791	-.04199	-.05204	-.05313	-.20885	-.26593
	GRADIENT	.01632	.02016	.00217	.00358	.00244	.00250	.00462	.00135	-.00247

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ENH039)   (08 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO	BETA =	.000	STAB =	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO	RUDDER =	10.000	ELEVON =	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO	IORB =	6.000	DX =	.000
SCALE	=	.0125					DY =	.000	MACH =	.600

RUN NO. 391/ 0   RN/L = 3.36   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.148	2.388	.07128	.23558	-.07837	-.25026	-.28052	-.26713	-.02937	-.20742	-.26070
3.390	4.263	.07717	.19623	-.08282	-.25646	-.28558	-.26929	-.03474	-.20811	-.25780
	GRADIENT	.00314	-.02099	-.00238	-.00331	-.00270	-.00115	-.00286	-.00037	.00155

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ENH039) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 392/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.139	.06124	.24728	-.09449	-.26840	-.29858	-.28058	-.04843	-.21837	-.26602
4.461	.06940	.15008	-.08651	-.25429	-.28725	-.27385	-.03773	-.21194	-.26554
GRADIENT	.00351	-.03756	.00344	.00608	.00488	.00290	.00461	.00277	.00021

DZ 7.312 / 7.376

RUN NO. 393/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.001	.05786	.25164	-.07714	-.25141	-.28112	-.26961	-.03511	-.20456	-.25703
4.424	.06602	.16650	-.09391	-.26407	-.29234	-.27913	-.04530	-.21994	-.26882
GRADIENT	.00337	-.02689	-.00692	-.00522	-.00463	-.00393	-.00420	-.00635	-.00487

DZ 9.885 / 10.083

RUN NO. 394/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.141	.05459	.26252	-.07548	-.25257	-.28329	-.27208	-.03968	-.20930	-.26086
4.433	.06296	.18829	-.10068	-.26700	-.29705	-.28149	-.05139	-.22983	-.27280
GRADIENT	.00355	-.03239	-.01100	-.00629	-.00600	-.00411	-.00511	-.00896	-.00521

DZ 15.083 / 14.830

RUN NO. 395/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.045	.04738	.25670	-.08127	-.25911	-.29201	-.27596	-.04758	-.20777	-.26045
4.494	.05575	.16946	-.08432	-.25882	-.29083	-.27749	-.04536	-.20919	-.25882
GRADIENT	.00341	-.03970	-.00124	.00012	.00048	.00062	.00090	.00058	.00067

DZ 29.701 / 29.790

RUN NO. 396/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.160	.04381	.25610	-.08794	-.26853	-.29894	-.28519	-.05991	-.21882	-.27778
4.367	.04951	.16636	-.09106	-.26638	-.29670	-.28536	-.05442	-.21418	-.26796
GRADIENT	.00258	-.04065	-.00142	.00097	.00102	-.00008	.00249	.00210	.00445

DZ 44.565 / 44.873

RUN NO. 397/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.123	.04207	.27250	-.08976	-.26754	-.29999	-.28231	-.05732	-.21004	-.26701
4.396	.04730	.16902	-.09612	-.27161	-.30222	-.28718	-.06261	-.21936	-.26633
GRADIENT	.00230	-.04553	-.00280	-.00179	-.00098	-.00214	-.00233	-.00410	.00030

DZ 50.286 / 50.569

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ENH0401) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 4.000	DX = .000	
DY = .000	MACH = .600	

RUN NO. 401/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	CPC	XYCP	XZCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.048	-.004	-.06424	.34507	-.05382	-.25833	-.29974	-.28350	-.04096	-.18957	-.24019
3.021	2.318	-.08468	.29788	-.06617	-.26191	-.29874	-.28220	-.05051	-.21680	-.26271
3.274	4.401	-.08417	.27463	-.07799	-.25685	-.29162	-.27510	-.04409	-.21064	-.26616
	GRADIENT	-.00461	-.01607	-.00548	-.00015	.00182	.00188	-.00078	-.00492	-.00597

RUN NO. 402/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	CPC	XYCP	XZCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
7.066	-.091	-.06747	.31988	-.03617	-.26188	-.29978	-.29462	-.04392	-.19581	-.24915
7.198	2.490	-.07174	.31778	-.05275	-.24972	-.28316	-.27453	-.04343	-.20064	-.25458
7.335	4.405	-.09298	.29641	-.06812	-.26922	-.29855	-.28469	-.05645	-.21989	-.27349
	GRADIENT	-.00545	-.00497	-.00707	-.00128	.00062	.00021	-.00262	-.00516	-.00523

RUN NO. 403/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	CPC	XYCP	XZCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.793	.024	-.06743	.30737	-.03037	-.25767	-.29799	-.28365	-.04687	-.19787	-.24631
9.766	2.449	-.07694	.31274	-.04937	-.26011	-.29415	-.27740	-.04560	-.20391	-.24714
9.745	4.293	-.08412	.29125	-.06386	-.26435	-.29318	-.27944	-.04586	-.21047	-.26705
	GRADIENT	-.00391	-.00347	-.00784	-.00154	.00115	.00107	.00025	-.00293	-.00463

RUN NO. 404/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	CPC	XYCP	XZCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.781	-.155	-.07660	.36126	-.01754	-.26640	-.30650	-.29233	-.05788	-.20331	-.25250
14.685	2.568	-.07866	.32227	-.04498	-.26426	-.29803	-.27884	-.04894	-.20239	-.25777
14.592	4.303	-.09903	.32217	-.06009	-.26974	-.29530	-.28465	-.05508	-.22286	-.27053
	GRADIENT	-.00465	-.00926	-.00959	-.00061	.00256	.00201	.00086	-.00397	-.00386

RUN NO. 405/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	CPC	XYCP	XZCP	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.804	-.120	-.07038	.36879	.00586	-.26326	-.30600	-.28842	-.05442	-.19698	-.25082
29.944	2.563	-.07721	.31469	.03698	-.25926	-.29965	-.27730	-.04328	-.19759	-.25441
29.835	4.329	-.08727	.30205	.05104	-.26737	-.29545	-.28249	-.05135	-.21526	-.26899
	GRADIENT	-.00369	.00109	.01027	-.00073	.00237	.00156	.00097	-.00379	-.00386

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ENH040)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
SREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY =	MACH = .600

RUN NO. 406/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.515	-.091	.00113	.39356	-.07678	-.27314	-.30948	-.29692	-.06824	-.20609	-.25685
44.728	2.446	.03055	.34526	-.07649	.25529	-.29250	-.28010	-.04899	-.20594	-.25205
44.671	4.476	.04788	.33269	-.08462	.26652	-.29706	-.28517	-.05435	-.21273	-.26571
	GRADIENT	.01029	-.01356	-.00164	.00168	.00288	.00274	.00323	-.00139	-.00178

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ENH041)   (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
SREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY =	MACH = .500

RUN NO. 411/ 0   RN/L = 2.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
3.328	2.137	.06328	.30419	-.08777	-.26327	-.29910	-.28064	-.07149	-.20356	-.24518
3.325	4.298	.07417	.28506	-.09240	.26079	-.29475	-.28391	-.07866	-.21381	-.26693
	GRADIENT	.00504	-.00895	-.00214	.00115	.00201	-.00151	-.00332	-.00474	-.01006

RUN NO. 412/ 0   RN/L = 2.96

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
6.838	2.085	.05231	.29661	-.09281	-.27141	-.30815	-.29032	-.07753	-.21139	-.25977
7.184	4.439	.06501	.28545	-.09949	.27007	-.30426	-.28971	-.08239	-.21406	-.26425
	GRADIENT	.00539	-.00474	-.00284	.00057	.00165	.00026	-.00207	-.00113	-.00191

RUN NO. 413/ 0   RN/L = 2.98

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.770	2.218	.04697	.37786	-.09042	-.26569	-.29344	-.28746	-.08099	-.20690	-.25335
9.780	4.469	.06158	.28947	-.09816	.26649	-.30378	-.29111	-.08042	-.21545	-.26251
	GRADIENT	.00649	-.03526	-.00344	.00036	-.00193	-.00162	.00025	-.00380	-.00407

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (ENH041)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = -5.00/ 5.00	STAB = 5.000	
RUDDER =	ELEVON = 5.000	.000
IORB =	DX = .000	4.000
DY =	MACH = .500	.000

RUN NO. 414/ 0 RN/L = 2.97

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 14.789	1.986	.03978	.28362	-.11052	-.28546	-.32839	-.30907	-.10265	-.22357	-.27401
14.819	4.441	.05719	.27186	-.11987	-.28832	-.32273	-.30732	-.10267	-.23671	-.27721
GRADIENT		.00710	-.00683	-.00381	-.00117	.00230	.00071	-.00001	-.00536	-.00131

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 415/ 0 RN/L = 2.97

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 29.638	2.215	-.03379	.29887	-.09328	-.27306	-.31148	-.29299	-.08168	-.20854	-.26508
29.826	4.415	.05125	.28708	-.09842	-.27288	-.30611	-.29130	-.08253	-.21364	-.26674
GRADIENT		.00794	-.00536	-.00234	.00008	.00244	.00077	-.00039	-.00232	-.00075

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 416/ 0 RN/L = 2.97

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 44.438	2.214	-.02968	.34549	-.10640	-.28414	-.32269	-.30698	-.09998	-.21954	-.27272
44.694	4.330	.04570	.29554	-.12065	-.28908	-.32240	-.31165	-.10810	1.14666	-.29230
GRADIENT		.00757	-.02361	-.00673	-.00233	.00013	-.00221	-.00384	.64583	-.00926

GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (ENH042) (08 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = -5.00/ 5.00	STAB = 5.000	
RUDDER =	ELEVON = 5.000	.000
IORB =	DX = .000	4.000
DY =	MACH = .300	.000

RUN NO. 421/ 0 RN/L = 1.98

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 3.128	2.209	-.06434	.22071	-.22779	-.39445	-.43129	-.41726	-.20762	-.32603	-.37252
3.123	4.221	.07336	.21372	-.17766	-.33116	-.36665	-.35334	-.15015	-.27437	-.31341
GRADIENT		.00478	-.00348	.02491	.03145	.03212	.03176	.02855	.02567	.02937

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 422/ 0 RN/L = 1.98

	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
DZ 7.085	2.291	-.05355	.24617	-.16130	-.31599	-.36195	-.35046	-.14274	-.26826	-.30007
7.303	4.347	.06308	.26880	-.17208	-.33041	-.37044	-.35443	-.14273	-.27170	-.31262
GRADIENT		.00464	.01101	-.00524	-.00702	-.00413	-.00193	.00001	-.00168	-.00610

GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　　　　　(ENH042)　(08 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO	STAB = 5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO	ELEVON = 5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO	DX = .000
SCALE	=	.0125					MACH = .300

	BETA	=	-5.00/	5.00
	RUDDER	=		
	1ORB	=		
	DY	=		

RUN NO. 423/ 0　　RN/L = 1.98　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
9.285	2.180	.04863	.43002	-.22329	-.38712	-.42741	-.41603	-.20227	-.32667	-.37222
9.970	4.347	.05984	.28081	-.17673	-.33194	-.36741	-.35322	-.15101	-.26808	-.32218
	GRADIENT	.00517	-.06885	.02149	.02546	.02769	.02898	.02365	.02704	.02309

RUN NO. 424/ 0　　RN/L = 1.98　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
14.488	2.266	.04253	.24752	-.23384	-.40157	-.44262	-.42253	-.21113	-.33081	-.39283
14.575	4.354	.05591	.22186	-.24255	-.39542	-.42949	-.41814	-.21285	-.33602	-.39280
	GRADIENT	.00641	-.01229	-.00417	-.00294	.00629	.00210	-.00082	-.00250	.00001

RUN NO. 425/ 0　　RN/L = 1.97　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
29.804	2.191	.03475	.20992	-.22763	-.38707	-.43612	-.41948	-.20923	-.32487	-.38532
29.724	4.292	.04968	.22412	-.17407	-.33662	-.36771	-.35350	-.14209	-.27266	-.31530
	GRADIENT	.00711	.00676	.02549	.02401	.03256	.03141	.03196	.02485	.03332

RUN NO. 426/ 0　　RN/L = 1.97　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
44.766	2.202	.03084	.26827	-.16353	-.33279	-.37356	-.35938	-.14404	-.26456	-.31950
44.688	4.256	.04427	.35444	-.16890	-.33002	-.37074	-.35835	-.13880	-.27425	-.32294
	GRADIENT	.00650	.04660	-.00260	.00134	.00137	.00050	.00254	-.00469	-.00166

ARC 14-120(CA23B) 02S1   (ENH043)   (09 OCT 75)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF	= 474.8100 IN.	YMRP = .0000 IN.	YO
BREF	= 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE	= .0125		

PARAMETRIC DATA

BETA = .000   ELEVON = 5.000

RUN NO. 431/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.284	4.518	.00067	.58343	.05364	-.25147	-.28623	-.26537	-.14775	-.18945	-.24639
2.235	6.328	.01790	.53109	.05609	-.23994	-.27836	-.26449	-.14708	-.18497	-.24608
1.862	8.269	.03028	.45293	.05611	-.23811	-.27036	-.25863	-.14645	-.18322	-.25410
2.534	10.303	.02963	.25637	.07094	-.24343	-.27894	-.26212	-.15104	-.19216	-.25624
2.332	12.406	.02653	.06893	.07556	-.25110	-.28605	-.26231	-.15426	-.19962	-.25777
2.211	14.397	.02697	.08178	.08466	-.26284	-.30137	-.28799	-.16091	-.20425	-.26873
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 432/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
17.824	-.729	1.55828	.43386	.01711	-.25338	-.29902	-.28990	-.15807	-.16317	-.23083
20.582	4.597	-.00122	.51144	.04904	-.24447	-.28957	-.27642	-.15212	-.17870	-.24850
20.432	6.440	.01680	.43889	.05688	-.23708	-.27978	-.26528	-.15518	-.18176	-.25078
20.388	8.441	.03012	.34424	.06055	-.23892	-.26918	-.25900	-.15241	-.18589	-.24990
20.672	10.411	.02902	.25447	.06966	-.24563	-.27845	-.26231	-.15549	-.19101	-.25505
20.407	12.376	.02665	.12517	.07402	-.25160	-.28599	-.27202	-.16402	-.19330	-.26154
20.474	14.347	.02705	.10777	.08329	-.26005	-.29900	-.28100	-.16576	-.19800	-.25656
GRADIENT		-.29284	.01457	.00600	.00167	.00177	.00253	.00112	.00292	.00332

RUN NO. 433/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
37.645	-.608	2.12768	.47241	.03217	-.27009	-.31183	-.30140	-.17535	-.16946	-.24654
40.709	4.480	-.00470	.54379	.06232	-.25769	-.29890	-.28659	-.16643	-.18917	-.25662
40.387	6.499	.01605	.51826	.05876	-.24099	-.28025	-.25994	-.15082	-.17113	-.25019
40.324	8.438	.02917	.46346	.05963	-.23982	-.27278	-.25792	-.15526	-.18012	-.24982
40.462	10.448	.02905	.31610	.06612	-.23446	-.27229	-.26122	-.15259	-.19204	-.25176
40.577	12.427	.02697	.17547	.07674	-.25585	1.11279	-.27354	-.16575	-.19760	-.26374
40.395	14.433	.02643	.09633	.08933	-.26983	-.31529	-.29405	-.17999	-.20748	-.26847
GRADIENT		-.41911	.01403	.00593	.00244	.00254	.00291	.00175	.00387	.00198

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 03S1   (ENH044) (09 OCT 75)

REFERENCE DATA

```
SREF  =  2690.0000 SQ.FT.     XMRP  =  1109.0000 IN. XO          PARAMETRIC DATA
LREF  =   474.8100 IN.        YMRP  =      .0000 IN. YO
BREF  =   936.6800 IN.        ZMRP  =   375.0000 IN. ZO     BETA  =   .000   ELEVON  =   5.000
SCALE =      .0125
```

RUN NO. 441/0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
60.484	6.381	-.05593	.47153	-.02927	-.01694	-.01748	-.01989	-.16890	-.18149	-.25117
60.085	8.325	-.02488	.51159	-.03875	-.02376	-.02162	-.02322	-.16804	-.19132	-.26038
60.603	10.419	-.01019	.77805	-.04332	-.02639	-.03069	-.03176	-.16885	-.19223	-.26265
60.708	12.411	-.00679	.35734	-.05723	-.03582	-.04084	-.04295	-.18097	-.20662	-.27087
57.099	14.003	-.00328	.87467	-.06476	-.04536	-.04775	-.05174	-.18988	-.21591	-.28206
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 03S1   (ENH045) (09 OCT 75)

REFERENCE DATA

```
SREF  =  2690.0000 SQ.FT.     XMRP  =  1109.0000 IN. XO          PARAMETRIC DATA
LREF  =   474.8100 IN.        YMRP  =      .0000 IN. YO
BREF  =   936.6800 IN.        ZMRP  =   375.0000 IN. ZO     BETA  =   .000   ELEVON  =    .000
SCALE =      .0125
```

RUN NO. 451/0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
2.231	4.557	.08431	-.09005	-.01663	-.00629	-.00894	-.01133	-.15363	-.16927	-.22333
2.483	6.357	.08111	-.07983	-.02336	-.00929	-.01380	-.01062	-.15364	-.17806	-.23882
2.239	8.320	.09360	-.08408	-.03597	-.02281	-.02913	-.02860	-.16288	-.19157	-.25186
1.921	10.373	.08610	-.19476	-.02540	-.00974	-.01796	-.01982	-.15307	-.18200	-.25314
2.551	12.477	.06220	-.15388	-.02788	-.01301	-.01805	-.01991	-.15568	-.18916	-.25319
2.114	14.400	.05317	-.13322	-.04219	-.02304	-.03022	-.03288	-.17355	-.20014	-.25811
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 452/0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
17.573	-.792	.11128	-.09456	-.00386	-.00571	-.00823	-.01139	-.17189	-.16637	-.23474
20.373	4.401	.08120	-.04674	-.02256	-.00903	-.00824	-.00877	-.15651	-.17746	-.23608
20.172	6.464	.07980	-.01657	-.02427	-.01052	-.01343	-.01501	-.15887	-.17553	-.24217
20.312	8.466	.09405	-.10524	-.02704	-.01014	-.01094	-.01622	-.15298	-.17437	-.24064
20.516	10.508	.08214	.12172	-.02657	-.01148	-.01545	-.01645	-.15869	-.18305	-.24580
20.115	12.332	.06233	.13282	-.03351	-.01836	-.01809	-.02128	-.16748	-.18849	-.25441
	GRADIENT	-.00579	.00921	-.00360	-.00064	-.00317	-.00388	.00296	.00214	-.00026

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 03S1   (ENH045)   (09 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA = .000   ELEVON = .000

RUN NO. 453/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
37.990	-.738	.11488	-.05613	.00025	.00155	.01220	.01220	-.17514	-.16370	-.23204
40.220	4.411	.08207	-.05982	-.01563	-.00648	-.00569	-.00700	-.16156	-.17620	-.23557
39.923	6.397	.07862	-.05426	-.03215	-.02026	-.02181	-.02621	-.16658	-.19140	-.24956
40.358	8.474	.09158	-.07923	-.02539	-.00947	-.01312	-.01364	-.15854	-.18309	-.24470
40.425	10.464	.08286	-.13229	-.02734	-.01058	-.01582	-.01661	-.15540	-.18080	-.25151
40.404	12.438	.06067	-.19287	-.03850	-.02248	-.02221	-.02852	-.16513	-.19272	-.25103
40.396	14.497	.05253	-.15461	-.04310	-.02632	-.02397	-.02737	-.16369	-.18939	-.25781
GRADIENT		-.00637	-.00072	-.00308	-.00156	-.00347	-.00373	.00264	-.00243	-.00069

ARC 14-120(CA23B) 02S1   (ENH046)   (09 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA = .000   ELEVON = .000

RUN NO. 461/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
38.822	-.234	-.25307	.25407	-.01245	-.23977	-.28402	-.27077	-.16241	-.15578	-.23024
40.088	2.253	.72559	.25578	-.02828	-.24150	-.28145	-.26187	-.15843	-.16452	-.23621
40.254	4.484	.22559	.26453	-.05432	-.23912	-.28199	-.26971	-.17142	-.17717	-.24461
40.159	6.430	.15820	.21086	-.05481	-.23229	-.26468	-.25151	-.16488	-.17963	-.24124
40.206	8.402	.14357	.17894	-.05380	-.23202	-.26317	-.24997	-.15941	-.18212	-.24786
40.248	10.328	.12230	.07883	-.06219	-.23324	-.26166	-.25113	-.15982	-.18403	-.24745
40.591	12.418	.09400	.01145	-.06283	-.24190	-.27166	-.25796	-.16579	-.19028	-.24321
39.934	14.328	.08538	.02665	-.07428	-.25391	-.28715	-.26974	-.17056	-.19166	-.25206
GRADIENT		.16702	.00219	-.00883	.00012	-.00044	.00029	.00184	-.00451	-.00304

ARC 1+120(CA23B) 02S1   (ENH047)   (21 OCT 75)

REFERENCE DATA

```
SREF  = 2690.0000 SQ.FT.    XMRP = 1109.0000 IN. XO
LREF  =  474.8100 IN.       YMRP =     .0000 IN. YO
BREF  =  936.6800 IN.       ZMRP =  375.0000 IN. ZO
SCALE =     .0125
```

PARAMETRIC DATA

```
BETA  =   .000    ELEVON =   .000
DZ    = 50.000
```

RUN NO. 471/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
6.055	.16667	.27375	-.05009	-.23296	-.26631	-.25519	-.16045	-.17447	-.24593
10.519	.11902	.05985	-.07477	-.24275	-.27305	-.26260	-.17117	-.19782	-.25477
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX -.046 .212

RUN NO. 472/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.995	.15674	.28943	-.04159	-.22342	-.26248	-.24928	-.14952	-.17169	-.23978
10.412	.12146	.06256	-.05570	-.22481	-.25837	-.24225	-.15030	-.18253	-.25414
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX 4.734 5.194

RUN NO. 473/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.974	.16811	.25637	-.04564	-.22641	-.26018	-.24725	-.15331	-.17785	-.24197
10.420	.12260	.08468	-.05498	-.22999	-.26017	-.24932	-.15850	-.18392	-.24799
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX 9.687 10.187

RUN NO. 474/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.891	.17430	.24391	-.05429	-.23285	-.27091	-.25475	-.15986	-.17941	-.24875
10.503	.11973	.06264	-.05491	-.22709	-.25358	-.24113	-.15027	-.18312	-.24430
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX 14.701 15.158

RUN NO. 475/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.884	.17307	.24322	-.04618	-.23045	-.26345	-.24814	-.15231	-.16867	-.22649
10.481	.12036	.04625	-.05868	-.22888	-.26047	-.24428	-.15188	-.17763	-.24614
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX 19.661 20.118

ARC 14-120(CA23B)   O2S1   (ENH048)   (21 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	BETA = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	DZ = 3.000
SCALE = .0125		

RUN NO. 481/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
6.062	.16760	.22056	-.04412	-.22683	-.26364	-.24828	-.14369	-.17652	-.23584
10.557	.11846	.03924	-.07082	-.24091	-.27372	-.25745	-.16086	-.18999	-.25246
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX
-.066
.194

RUN NO. 482/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.859	.17275	.22880	-.06105	-.24406	-.27601	-.26134	-.15531	-.18254	-.24852
10.488	.12090	.06451	-.05909	-.22778	-.26061	-.24896	-.14966	-.18011	-.24181
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX
4.719
5.154

RUN NO. 483/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.908	.17397	.23508	-.05088	-.23243	-.26667	-.25579	-.15360	-.17324	-.24092
10.472	.12157	.08371	-.05475	-.22618	-.25560	-.24602	-.15131	-.18306	-.24231
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX
9.696
10.116

RUN NO. 484/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
6.043	.16718	.20754	-.05409	-.23803	-.27309	-.25974	-.15822	-.18099	-.24431
10.416	.12255	.05952	-.05954	-.23067	-.26272	-.25001	-.15252	-.18802	-.24815
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX
14.663
15.113

RUN NO. 485/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	XZCP	XYCP	CPC	CPB1	CPB2	CPB3	CPE3	CPS1	CPS2
5.858	.17331	.21781	-.04330	-.22686	-.26658	-.25364	-.15020	-.17752	-.23614
10.427	.12102	.04044	-.05595	-.23103	-.25619	-.24242	-.14813	-.18230	-.23818
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DX
19.772
20.191

ARC 14-1201(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNH008)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	STAB = -1.000
RUDDER =	ELEVON = 5.000
IORB =	DX = .000
DY =	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59057	.67175	-.18918	-.13324	.04286	.24172	.00648	-.00174	.00034
2.000	6.00000	.58914	-.05416	.10106	.02518	.04422	.20409	.01110	-.00274	.00107
4.000	6.00000	.59028	-.07544	.18983	.18685	.04876	.16651	.01482	-.00295	.00117
GRADIENT	.00000	-.00007	-.18680	.09475	.08002	.00148	-.01880	.00208	-.00030	.00021

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58987	-.09481	-.36797	-.12157	.04387	.22839	.00761	-.00214	.00047
2.000	6.06300	.58902	-.01120	-.31915	.04296	.04527	.18537	.01125	-.00213	.00075
4.000	6.00000	.59118	-.05854	-.46731	.20284	.05043	.14789	.01507	-.00222	.00047
GRADIENT	.00000	.00033	-.00907	-.02484	.08110	.00164	-.02012	.00187	-.00002	.00000

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59202	-.15116	-.53535	-.11037	.04463	.21582	.00729	-.00207	.00021
2.000	6.00000	.59301	-.03752	-.47390	.05366	.04613	.17305	.01057	-.00209	.00033
4.000	6.00000	.59058	-.02591	-.41868	.20976	.05106	.13832	.01365	-.00197	.00088
GRADIENT	.00000	-.00036	.03131	.02917	.08003	.00161	-.01938	.00159	.00002	.00017

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59255	-.09969	-.47798	-.09979	.04521	.19656	.00794	-.00228	.00005
2.000	6.00000	.59219	.01879	-.34585	.06599	.04695	.15255	.01022	-.00185	.00029
4.000	6.00000	.59101	-.06179	-.40137	.22600	.05221	.11935	.01438	-.00207	.00073
GRADIENT	.00000	-.00038	.00948	.01915	.08145	.00175	-.01930	.00161	.00005	.00017

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59159	-.09209	-.40582	-.08088	.04525	.17065	.00697	-.00222	.00085
2.000	6.00000	.59155	.20780	-.33416	.09308	.04731	.12922	.01108	-.00220	.00047
4.000	6.00000	.59167	-.10720	-.40864	.24997	.05296	.09164	.01527	-.00243	.00086
GRADIENT	.00000	.00002	-.00378	-.00070	.08271	.00193	-.01975	.00208	-.00005	.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH008)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59230	-.07540	-.47401	-.07383	.04521	.15933	.00825	-.00247	.00065
2.000	6.00000	.59324	.00616	-.48236	.10678	.04761	.11645	.01196	-.00229	.00075
4.000	6.00000	.59245	-.16935	-.52115	.27128	.05364	.07873	.01426	-.00221	.00091
GRADIENT	.00000	.00004	-.02349	-.01178	.08628	.00211	-.02015	.00150	-.00006	.00006

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59329	.04229	-.53060	-.05979	.04572	.15537	.00832	-.00245	.00034
2.000	6.00000	.59239	-.15767	-.45502	.10559	.04759	.11426	.01181	-.00232	.00092
4.000	6.00000	.59204	-.20162	-.48963	.27450	.05360	.07472	.01534	-.00238	.00122
GRADIENT	.00000	-.00031	-.06098	.01024	.08357	.00197	-.02016	.00176	.00002	.00022

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH009)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58956	-1.54849	-.28840	-.16424	.03997	.29583	.00780	-.00219	.00008
2.000	8.00000	.59001	-.75094	-.55882	.00497	.04168	.26084	.01033	-.00224	.00058
4.000	8.00000	.59111	-.01750	-.58163	.16102	.04516	.23202	.01208	-.00198	.00017
GRADIENT	.00000	.00039	.39150	-.07331	.08131	.00130	-.01595	.00107	.00005	.00002

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (UNH009)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58981	-2.01103	-.46973	-.15009	.04136	.27560	.00823	-.00251	.00025
2.000	8.00000	.59113	-.37391	-.49652	.01433	.04260	.23922	.01027	-.00238	.00080
4.000	8.00000	.59117	-.02504	-.53884	.17324	.04686	.20636	.01282	-.00217	.00057
GRADIENT	.00000	.00034	.49650	-.01729	.08083	.00137	-.01731	.00115	.00008	.00008

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59127	-.07935	-.48612	-.13803	.04244	.25524	.00603	-.00222	.00065
2.000	8.00000	.59204	-.05658	-.43816	.01892	.04301	.22558	.01046	-.00255	.00102
4.000	8.00000	.59073	-.05430	-.53020	.18116	.04799	.18959	.01359	-.00235	.00087
GRADIENT	.00000	-.00013	.00626	-.01102	.07980	.00139	-.01641	.00189	-.00003	.00006

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59244	-.18171	-.39780	-.12336	.04334	.23252	.00598	-.00215	.00046
2.000	8.00000	.59188	-.01052	-.46944	.03663	.04485	.20017	.00958	-.00236	.00094
4.000	8.00000	.59315	-.09143	-.53470	.19560	.04976	.16279	.01332	-.00222	.00086
GRADIENT	.00000	.00018	.02257	-.03422	.07974	.00160	-.01743	.00184	-.00002	.00010

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59222	-.13688	-.52196	-.08845	.04494	.19136	.00682	-.00224	.00058
2.000	8.00000	.59285	-.10129	-.42881	.07165	.04651	.15507	.01125	-.00256	.00103
4.000	8.00000	.59137	-.13779	-.53052	.23292	.05213	.11825	.01600	-.00278	.00122
GRADIENT	.00000	-.00021	-.00023	-.00214	.08034	.00180	-.01828	.00229	-.00013	.00016

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59197	-.04829	-.55849	-.08292	.04496	.17571	.00684	-.00225	.00058
2.000	8.00000	.59243	-.05417	-.45491	.08516	.04666	.13653	.01028	-.00219	.00107
4.000	8.00000	.59178	-.15068	-.45507	.25582	.05291	.09671	.01489	-.00242	.00102
GRADIENT	.00000	-.00005	-.02560	.02586	.08468	.00199	-.01975	.00201	-.00004	.00011

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH009)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 50.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59188	-.00194	-.52363	-.07192	.04549	.16922	.00871	-.00255	.00016
2.000	8.00000	.59167	.01316	-.48819	.09802	.04728	.12927	.01129	-.00226	.00041
4.000	8.00000	.59268	-.09422	-.46192	.26545	.05304	.09073	.01531	-.00247	.00088
GRADIENT	.00000	.00020	-.02307	.01543	.08434	.00189	-.01962	.00165	.00002	.00018

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH010)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 3.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59528	-.14459	.39993	-.06378	.04118	-.02598	.01246	-.00417	.00031
2.000	8.00000	.59463	-.03459	.71214	.07974	.04386	-.05547	.01326	-.00346	-.00012
4.000	8.00000	.59120	-.02236	.67475	.23994	.04969	-.09160	.01450	-.00308	-.00079
GRADIENT	.00000	-.00102	.03056	.06870	.07593	.00213	-.01640	.00051	.00027	.00012

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 7.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59524	-.13105	-.08072	-.05554	.04245	-.04964	.01097	-.00327	.00022
2.000	8.00000	.59624	-.03201	.11391	.09615	.04523	-.08196	.01350	-.00323	.00025
4.000	8.00000	.59500	.05084	.13091	.25924	.05194	-.12041	.01501	-.00283	.00084
GRADIENT	.00000	-.00006	.02005	.05291	.07869	.00237	-.01769	.00101	.00011	.00015

DATE 22 MAR 76 TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(UNH010) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	8.00000	.59458	-.14457	-.40700	-.05202	.04323	-.06417	.00993	-.00265	.00022
2.000	8.00000	.59782	-.02622	-.40185	.11025	.04615	-.09904	.01402	-.00307	.00062
4.000	8.00000	.59922	-.07409	.29551	.27228	.05350	-.13906	.01567	-.00265	.00101
GRADIENT	.00000	.00091	.01762	.02787	.08107	.00257	-.01872	.00144	-.00000	.00020

DZ = 15.000 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59642	-.13299	-.36917	-.03026	.04430	-.09211	.01034	-.00269	.00006
2.000	8.00000	.59651	-.02739	-.37159	.12909	.04746	-.12875	.01228	-.00284	.00044
4.000	8.00000	.59752	-.07079	-.40978	.29072	.05536	-.16972	.01431	-.00249	.00043
GRADIENT	.00000	.00027	.01555	-.01015	.08025	.00276	-.01940	.00099	-.00005	.00009

DZ = 30.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59671	-.10394	-.51761	.00478	.04508	-.14215	.01046	-.00279	.00032
2.000	8.00000	.59659	-.08296	-.47056	.17045	.04956	-.18458	.01298	-.00308	.00030
4.000	8.00000	.59605	-.11834	-.46531	.33194	.05833	-.22148	.01449	-.00296	.00061
GRADIENT	.00000	-.00017	-.00360	.01307	.08179	.00331	-.01983	.00101	-.00004	.00007

DZ = 45.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59578	-.10371	-.43686	.02641	.04546	-.16648	.00984	-.00280	.00027
2.000	8.00000	.59641	-.10516	-.42721	.19329	.05034	-.20981	.01276	-.00297	.00051
4.000	8.00000	.59539	-.19518	-.47170	.35651	.06005	-.24408	.01445	-.00281	.00044
GRADIENT	.00000	-.00010	-.02287	-.00871	.08252	.00365	-.01940	.00115	-.00000	.00005

DZ = 50.000 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CRL
.000	8.00000	.59362	-.01092	-.44117	.02692	.04551	-.17103	.01014	-.00290	.00043
2.000	8.00000	.59473	-.00946	-.48167	.19668	.05052	-.21515	.01190	-.00289	.00052
4.000	8.00000	.59456	-.12097	-.53064	.36493	.06024	-.24982	.01437	-.00286	.00077
GRADIENT	.00000	.00023	-.02751	-.02237	.08450	.00368	-.01970	.00106	.00001	.00008

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(UNH0111) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	.000	DX	=	.000
DY	=	4.000	MACH	=	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59330	-.09487	-.17585	-.09301	.04587	.18472	.00775	-.00184	.00032
2.000	4.00000	.59263	-.03266	-.18204	.07122	.04706	.14649	.01195	-.00199	.00065
4.000	4.00000	.59218	-.08058	-.19776	.23326	.05169	.10785	.01539	-.00187	.00084
GRADIENT	.00000	-.00028	.00357	-.00548	.08157	.00146	-.01922	.00191	-.00001	.00013

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59408	-.21947	-.11285	-.07425	.04603	.17388	.00846	-.00194	.00057
2.000	4.00000	.59178	.10724	-.22680	.08761	.04752	.13740	.01201	-.00194	.00051
4.000	4.00000	.59253	-.00587	-.22635	.24632	.05238	.09777	.01622	-.00206	.00069
GRADIENT	.00000	-.00039	.05340	-.02837	.08014	.00159	-.01903	.00194	-.00003	.00003

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59257	-.14626	-.15718	-.06818	.04636	.17388	.00920	-.00212	.00018
2.000	4.00000	.59162	.07409	-.23642	.09273	.04758	.13410	.01232	-.00212	.00046
4.000	4.00000	.59123	.01922	-.24334	.25051	.05285	.09517	.01592	-.00212	.00042
GRADIENT	.00000	-.00033	.04137	-.02154	.07967	.00162	-.01968	.00168	.00000	.00006

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59363	-.12417	-.15853	-.06555	.04664	.16412	.01037	-.00259	.00011
2.000	4.00000	.59363	-.01486	-.23552	.09799	.04757	.12544	.01276	-.00223	.00110
4.000	4.00000	.59510	-.13120	-.20103	.25910	.05297	.08671	.01597	-.00217	.00103
GRADIENT	.00000	.00037	-.00176	-.01063	.08116	.00158	-.01935	.00140	-.00010	.00023

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59535	-.13025	-.16001	-.04699	.04602	.14906	.00858	-.00220	.00050
2.000	4.00000	.59468	-.13397	-.23880	.11953	.04779	.10958	.01176	-.00199	.00094
4.000	4.00000	.59389	-.12946	-.23698	.28564	.05361	.06954	.01607	-.00223	.00082
GRADIENT	.00000	-.00036	.00020	-.01924	.08316	.00190	-.01988	.00187	-.00001	.00008

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH011)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	4.00000	.59326	-.07470	-.23397	-.03035	.04584	.14192	.00856	-.00215	.00028
2.000	4.00000	.59326	-.21255	-.28003	.13812	.04743	.09964	.01277	-.00211	.00059
4.000	4.00000	.59271	-.14676	-.22929	.30356	.05365	.06114	.01596	-.00221	.00099
GRADIENT	.00000	-.00014	-.01801	.00117	.08348	.00195	-.02019	.00185	-.00002	.00018

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59237	-.06283	-.25594	-.02678	.04580	.13949	.00895	-.00224	.00018
2.000	4.00000	.59276	-.24187	-.29421	.14387	.04723	.09646	.01333	-.00218	.00054
4.000	4.00000	.59289	-.17550	-.20810	.30852	.05355	.05875	.01601	-.00222	.00121
GRADIENT	.00000	.00013	-.02817	.01196	.08383	.00194	-.02018	.00176	.00001	.00026

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNH013)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59330	-.02265	-.52888	-.04350	.04435	-.08317	.00615	-.00059	.00003
2.000	6.00000	.59492	-.03416	-.45886	.11796	.04773	-.12749	.01033	-.00094	.00016
4.000	6.00000	.59380	-.06456	-.53850	.27616	.05512	-.16135	.01180	-.00076	.00047
GRADIENT	.00000	.00013	-.01048	-.00240	.07992	.00269	-.01955	.00141	-.00004	.00011

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI O2S1   (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	6.000
DY =	.000	MACH =	.600

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	6.00000	.59143	-.14594	-.42355	-.02942	.04519	-.10496	.00688	-.00081	-.00009
2.000	6.00000	.59273	-.03204	-.49988	.13008	.04880	-.14824	.00913	-.00073	-.00050
4.000	6.00000	.59233	-.03940	-.51321	.29248	.05690	-.18280	.01098	-.00062	-.00071
GRADIENT	.00000	.00022	.02663	-.02242	.08047	.00293	-.01945	.00103	-.00005	-.00016

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59144	-.18620	-.44808	-.02384	.04541	-.11678	.00745	-.00107	-.00037
2.000	6.00000	.59173	-.00336	-.58353	.14075	.04936	-.15923	.00889	-.00079	-.00030
4.000	6.00000	.59203	-.07451	-.59846	.30175	.05746	-.19389	.01119	-.00073	-.00041
GRADIENT	.00000	.00015	.02792	-.03759	.08140	.00301	-.01928	.00093	-.00008	-.00001

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59111	-.11818	-.47005	-.01132	.04596	-.13630	.00890	-.00138	-.00027
2.000	6.00000	.59100	.09841	-.49785	.15003	.05016	-.17914	.00941	-.00104	-.00032
4.000	6.00000	.59097	-.01302	-.52853	.31481	.05858	-.21226	.01151	-.00093	-.00044
GRADIENT	.00000	-.00004	.02629	-.01462	.08153	.00316	-.01899	.00065	-.00011	-.00018

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59008	-.13369	-.45772	-.01950	.04617	-.17026	.01003	-.00221	-.00010
2.000	6.00000	.59033	.02128	-.53834	.18280	.05111	-.21182	.01142	-.00210	-.00023
4.000	6.00000	.59054	-.08049	-.50667	.34221	.06020	-.24339	.01406	-.00222	-.00067
GRADIENT	.00000	.00012	.01330	-.01224	.08068	.00351	-.01828	.00101	-.00000	-.00014

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59017	-.01960	-.53810	.03225	.04605	-.18376	.00921	-.00233	-.00027
2.000	6.00000	.59079	.05543	-.53705	.20242	.05144	-.22619	.01174	-.00239	-.00008
4.000	6.00000	.59103	-.08046	-.55385	.36367	.06099	-.25752	.01399	-.00233	-.00068
GRADIENT	.00000	.00021	-.01522	-.00394	.08286	.00374	-.01844	.00120	-.00001	-.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)　　　　(UNH013)　(17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 50.000　　　　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	6.00000	.59036	.02183	-.48797	.03247	.04591	-.18689	.00942	-.00234	.00046
2.000	6.00000	.59152	-.18551	-.52602	.20588	.05134	-.23087	.01157	-.00234	.00071
4.000	6.00000	.59141	-.18359	-.56621	.37098	.06104	-.26183	.01426	-.00243	.00097
GRADIENT	.00000	.00026	-.05135	-.01956	.08463	.00378	-.01873	.00121	-.00002	.00013

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)　　　　(UNH020)　(17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 3.500　　　　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58802	-.05223	-.26345	.00661	.04758	-.20503	.01045	-.00197	.00008
2.000	4.00000	.58859	-.02453	-.45158	.16992	.05226	-.23967	.01206	-.00197	.00033
4.000	4.00000	.58835	-.08535	-.29278	.33031	.06103	-.26602	.01492	-.00184	.00032
GRADIENT	.00000	.00008	-.00828	-.00733	.08092	.00336	-.01525	.00112	-.00003	.00006

DZ = 7.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58707	-.10972	-.44775	.01624	.04748	-.20700	.01038	-.00203	.00011
2.000	4.00000	.58741	-.06173	-.37930	.17549	.05250	-.24616	.01260	-.00202	.00018
4.000	4.00000	.58730	-.06510	-.36577	.34323	.06176	-.27383	.01508	-.00193	.00010
GRADIENT	.00000	.00006	.01116	.02049	.08275	.00357	-.01671	.00118	-.00003	-.00000

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB =	5.000
RUDDER = .000	ELEVON =	.000
IORB = 4.000	DX =	.000
DY = .000	MACH =	.600

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58804	-.10786	-.36690	.01599	.04758	-.20993	.01155	-.00223	-.00021
2.000	4.00000	.58923	-.06237	-.29638	.18610	.05293	-.24907	.01376	-.00215	-.00016
4.000	4.00000	.59037	-.07726	-.38358	.34660	.06207	-.27708	.01494	-.00188	-.00062
GRADIENT	.00000	.00058	.00765	-.00417	.08265	.00362	-.01679	.00085	.00009	.00021

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58762	-.06338	-.37890	.03226	.04755	-.21377	.01018	-.00202	-.00016
2.000	4.00000	.58706	-.07556	-.40109	.19479	.05307	-.25259	.01243	-.00201	-.00015
4.000	4.00000	.58649	-.05904	-.39269	.35786	.06273	-.28058	.01410	-.00179	-.00057
GRADIENT	.00000	-.00028	.00108	-.00345	.08140	.00379	-.01670	.00098	-.00006	-.00018

DZ = 30.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58719	-.10103	-.37297	.04295	.04708	-.21634	.01120	-.00260	-.00011
2.000	4.00000	.58734	-.11109	-.40675	.21427	.05271	-.25687	.01232	-.00243	-.00042
4.000	4.00000	.58789	-.11348	-.37248	.37862	.06284	-.28548	.01399	-.00225	-.00037
GRADIENT	.00000	.00017	-.00311	.00012	.08392	.00394	-.01729	.00070	.00009	.00012

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58474	.03140	-.36765	.05153	.04640	-.21412	.01051	-.00265	.00044
2.000	4.00000	.58677	-.14937	-.36932	.22207	.05238	-.25572	.01245	-.00252	-.00036
4.000	4.00000	.58682	-.11437	-.44889	.39319	.06262	-.28582	.01445	-.00244	-.00061
GRADIENT	.00000	.00052	-.03644	-.02031	.08542	.00406	-.01792	.00099	.00005	.00004

DZ = 50.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58364	.09589	-.37556	.05573	.04615	-.21319	.00983	-.00256	.00069
2.000	4.00000	.58607	-.16317	-.37271	.22342	.05227	-.25504	.01226	-.00249	-.00037
4.000	4.00000	.58546	-.10503	-.48330	.39816	.06258	-.28565	.01455	-.00246	-.00069
GRADIENT	.00000	-.00046	-.05023	-.02694	.08561	.00411	-.01812	.00118	.00002	-.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(UNH021) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59024	.02471	-.20532	-.07687	.04672	.12144	.00817	-.00137	.00037
2.000	4.00000	.58971	.07777	-.17981	.08489	.04823	.08846	.01359	-.00156	.00053
4.000	4.00000	.58927	-.02834	-.15665	.24435	.05310	.05263	.01671	-.00155	.00055
GRADIENT	.00000	-.00024	-.01326	.01217	.08031	.00159	-.01720	.00213	-.00005	.00005

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58967	-.16238	-.18138	-.06904	.04673	.11670	.00986	-.00166	.00010
2.000	4.00000	.59009	.13195	-.10900	.09754	.04800	.08294	.01366	-.00155	.00076
4.000	4.00000	.59008	.02309	-.14147	.25792	.05328	.04731	.01616	-.00149	.00060
GRADIENT	.00000	-.00010	.04637	.00998	.08174	.00164	-.01735	.00157	.00004	.00013

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59002	-.11657	-.13444	-.06360	.04667	.11594	.00955	-.00156	.00036
2.000	4.00000	.58974	.06359	-.22685	.10146	.04781	.08173	.01377	-.00149	.00110
4.000	4.00000	.59026	-.02995	-.20624	.26231	.05329	.04579	.01577	-.00136	.00076
GRADIENT	.00000	.00006	.02165	-.01795	.08148	.00166	-.01754	.00156	-.00005	.00010

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59003	-.15742	-.19366	-.04642	.04671	.11521	.00929	-.00149	-.00026
2.000	4.00000	.59012	.06634	-.22289	.10994	.04798	.08124	.01221	-.00128	.00057
4.000	4.00000	.59019	-.05118	-.13890	.26975	.05342	.04443	.01582	-.00128	.00108
GRADIENT	.00000	.00004	.02656	.01369	.07904	.00168	-.01769	.00163	.00005	.00033

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58959	-.06336	-.20571	-.03978	.04566	.11574	.00933	-.00172	.00058
2.000	4.00000	.58978	.09323	-.24167	.12605	.04741	.07772	.01369	-.00171	.00073
4.000	4.00000	.58903	-.04123	-.24788	.29044	.05320	.04086	.01619	-.00163	.00125
GRADIENT	.00000	-.00014	.00553	-.01054	.08256	.00188	-.01872	.00172	.00002	.00017

ARC 14-120(CA23B) 747/1 ATI O2S1 (CARRIER DATA)   (UNHO21)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB = -1.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC	IORB =	4.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBI
.000	4.00000	.58957	-.02796	-.02759	-.28104	.04516	.11873	.00801	-.00138	.00080
2.000	4.00000	.58896	-.10861	.14072	-.27460	.04700	.07839	.01345	-.00163	.00060
4.000	4.00000	.58944	-.16285	.30366	-.17509	.05306	.04018	.01590	-.00161	.00113
GRADIENT	.00000	-.00003	-.03372	.08281	.02649	.00198	-.01964	.00197	-.00006	.00008

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	4.00000	.58947	-.03023	-.02178	-.32597	.04504	.12016	.00738	-.00120	.00074
2.000	4.00000	.58885	-.18927	.14572	-.26854	.04695	.07897	.01300	-.00153	.00043
4.000	4.00000	.58978	-.21103	.30746	-.11324	.05305	.04030	.01571	-.00155	.00109
GRADIENT	.00000	.00008	-.04520	.08231	.05318	.00200	-.01997	.00208	-.00009	.00009

ARC 14-120(CA23B) 747/1 ATI O2S1 (CARRIER DATA)   (UNHO22)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB = 5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC	IORB =	8.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58837	-.16255	-.06177	.01217	.04336	-.08610	.00825	-.00073	-.00016
2.000	8.00000	.58607	-.01185	.09882	-.22915	.04677	-.11945	.00963	-.00058	.00049
4.000	8.00000	.58491	-.13636	.26241	-.26636	.05363	-.14996	.01013	-.00054	.00056
GRADIENT	.00000	-.00086	.00655	.08105	-.06963	.00257	-.01596	.00047	.00005	.00018

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNHO22)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB =	5.000
RUDDER = .000	ELEVON =	.000
IORB = 8.000	DX =	.000
DY = .000	MACH =	.600

DZ = 7.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	8.00000	.58758	-.18018	-.11484	-.04150	.04437	-.10877	.00822	-.00096	.00011
2.000	8.00000	.58659	-.06165	-.19164	.11624	.04792	-.14344	.01015	-.00092	.00040
4.000	8.00000	.58630	-.12718	-.21764	.27772	.05515	-.17436	.01139	-.00075	.00052
GRADIENT	.00000	-.00032	.01325	-.02575	.07981	.00269	-.01640	.00079	.00005	.00010

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58709	-.19173	-.20231	-.02753	.04504	-.12347	.00839	-.00124	.00044
2.000	8.00000	.58728	-.07957	-.14578	.12739	.04870	-.15948	.01070	-.00130	.00033
4.000	8.00000	.58773	-.13368	-.16640	.28739	.05612	-.19049	.01242	-.00095	.00049
GRADIENT	.00000	.00016	.01451	.00898	.07873	.00277	-.01676	.00101	.00007	.00001

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58694	-.18748	-.23899	-.01506	.04556	-.14394	.00732	-.00082	-.00010
2.000	8.00000	.58647	-.13443	-.18170	.14608	.04955	-.18260	.01011	-.00091	.00034
4.000	8.00000	.58681	-.07010	-.20146	.30536	.05784	-.21600	.01281	-.00091	.00042
GRADIENT	.00000	-.00003	.02934	.00938	.08010	.00307	-.01802	.00137	.00002	.00013

DZ = 30.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58879	-.10260	-.12441	.01507	.04612	-.17801	.00993	-.00177	-.00007
2.000	8.00000	.58798	-.07780	-.12012	.18062	.05097	-.21960	.01207	-.00177	.00012
4.000	8.00000	.58867	-.15887	-.18301	.34482	.06008	-.25235	.01410	-.00173	.00041
GRADIENT	.00000	-.00003	-.01407	-.01465	.08244	.00349	-.01859	.00104	.00001	.00012

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58810	-.03873	-.20232	.03215	.04595	-.19229	.01002	-.00225	-.00044
2.000	8.00000	.58809	-.04281	-.22602	.20215	.05110	-.23501	.01215	-.00235	.00098
4.000	8.00000	.58917	-.15994	-.17723	.37005	.06069	-.26671	.01501	-.00234	.00094
GRADIENT	.00000	.00027	-.03030	.00627	.08448	.00368	-.01861	.00125	-.00002	.00013

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (UNH022)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 8.000	DX = .000		
DY = .000	MACH = .600		

DZ = 50.000

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	8.00000	.58786	-.00133	-.19668	.03430	.04600	-.19423	.01007	-.00235	.00028
2.000	8.00000	.58925	.00901	-.25501	.20062	.05109	-.23734	.01195	-.00234	.00085
4.000	8.00000	.58842	-.11080	-.16164	.37105	.06103	-.26903	.01501	-.00236	.00096
GRADIENT	.00000	.00014	-.02737	.00876	.08419	.00376	-.01870	.00124	-.00000	.00017

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (UNH023)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

DZ = 3.500

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58722	-.10448	-.22757	-.02737	.04607	-.13833	.00888	-.00081	-.00018
2.000	6.00000	.58696	-.14791	-.26402	.13280	.05021	-.18096	.01015	-.00082	.00025
4.000	6.00000	.58675	-.09563	-.31779	.29575	.05823	-.21441	.01221	-.00088	.00041
GRADIENT	.00000	-.00012	.00221	-.02256	.08078	.00304	-.01902	.00083	-.00002	.00015

DZ = 7.500

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58692	-.12617	-.26758	-.01402	.04664	-.15829	.00833	-.00099	-.00008
2.000	6.00000	.58772	.02447	-.21541	.14630	.05071	-.20006	.00987	-.00089	.00034
4.000	6.00000	.58744	-.05141	-.25423	.30860	.05926	-.23298	.01141	-.00075	.00047
GRADIENT	.00000	.00013	.01869	.00334	.08066	.00315	-.01867	.00077	.00006	.00014

ARC 14-120(CA23B)   747/1 A11 02S1 (CARRIER DATA)   (UNH023)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	= .000	STAB	= 5.000
RUDDER	= .000	ELEVON	= .000
IORB	= 6.000	DX	= .000
DY	= .000	MACH	= .600

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	6.00000	.58720	-.08080	-.32093	-.00541	.04667	-.16757	.00828	-.00104	.00003
2.000	6.00000	.58738	-.03240	-.29826	.15378	.05117	-.20838	.01010	-.00093	.00005
4.000	6.00000	.58743	-.01548	-.31715	.32021	.05986	-.24053	.01162	-.00074	.00038
GRADIENT	.00000	.00006	.01633	.00094	.08141	.00330	-.01824	.00083	.00007	.00009

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58887	-.08769	-.27717	.00749	.04679	-.18128	.00830	-.00113	.00036
2.000	6.00000	.58732	-.04181	-.32458	.17470	.05176	-.22303	.00958	-.00084	.00023
4.000	6.00000	.58698	-.05553	-.31952	.33217	.06071	-.25324	.01177	-.00076	.00053
GRADIENT	.00000	-.00047	.00804	-.01059	.08117	.00348	-.01799	.00087	.00009	.00004

DZ = 30.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58737	-.13357	-.26229	.02878	.04650	-.19748	.00970	-.00215	.00062
2.000	6.00000	.58778	-.01156	-.20850	.18870	.05174	-.23850	.01129	-.00191	.00057
4.000	6.00000	.58784	-.12743	-.26464	.35861	.06158	-.27058	.01353	-.00180	.00064
GRADIENT	.00000	.00012	.00154	-.00059	.08246	.00377	-.01827	.00096	.00009	.00000

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58641	.02545	-.31603	.04021	.04648	-.20498	.01059	-.00235	-.00017
2.000	6.00000	.58821	-.10675	-.27867	.20998	.05186	-.24754	.01203	-.00241	.00080
4.000	6.00000	.58801	-.15959	-.27362	.37983	.06182	-.27858	.01445	-.00230	.00088
GRADIENT	.00000	.00040	-.04626	.01060	.08490	.00384	-.01840	.00096	.00001	.00026

DZ = 50.000   RN/L = 3.3:   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58729	.06326	-.39692	.03944	.04632	-.20590	.01072	-.00253	.00048
2.000	6.00000	.58809	-.12785	-.35762	.20918	.05185	-.24915	.01213	-.00243	.00081
4.000	6.00000	.58823	-.17777	-.33684	.37943	.06189	-.28021	.01422	-.00222	.00071
GRADIENT	.00000	.00023	-.05025	.01502	.08500	.00389	-.01858	.00088	.00008	.00006

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

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DZ = 3.500

ALPHAC	IORB
.000	6.00000
2.000	6.00000
4.000	6.00000
GRADIENT	.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58656	-.15710	-.05439	-.10988	.04460	.18606	.00701	-.00116	.00026
.58694	-.05661	-.04203	.05906	.04597	.14362	.01162	-.00144	.00023
.58738	-.07286	-.01917	.21895	.05029	.10759	.01495	-.00135	.00063
.00021	.02106	.00880	.08221	.00142	-.01962	.00199	-.00005	.00009

DZ = 7.500

ALPHAC	IORB
.000	6.00000
2.000	6.00000
4.000	6.00000
GRADIENT	.00000

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58752	-.15273	-.13760	-.08878	.04526	.17120	.00775	-.00129	.00007
.58737	.02438	-.07570	.07001	.04635	.13007	.01087	-.00131	.00063
.58742	-.04246	-.02463	.23028	.05110	.09394	.01475	-.00127	.00083
-.00003	.02757	.02824	.07977	.00146	-.01932	.00175	.00000	.00019

DZ = 10.000

ALPHAC	IORB
.000	6.00000
2.000	6.00000
4.000	6.00000
GRADIENT	.00000

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58782	-.18388	-.04983	-.07944	.04524	.16365	.00656	-.00100	.00049
.58743	-.00854	-.02874	.07941	.04651	.12266	.01103	-.00116	.00078
.58764	-.07576	-.07593	.23618	.05135	.08672	.01405	-.00113	.00096
-.00004	.02703	-.00652	.07890	.00153	-.01923	.00187	-.00003	.00012

DZ = 15.000

ALPHAC	IORB
.000	6.00000
2.000	6.00000
4.000	6.00000
GRADIENT	.00000

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58804	-.10235	-.01767	-.07332	.04535	.15465	.00686	-.00115	.00044
.58810	-.05297	-.02567	.09074	.04669	.11295	.01024	-.00097	.00079
.58742	.00257	.04641	.25163	.05193	.07695	.01424	-.00107	.00070
-.00016	.02623	.01602	.08124	.00164	-.01942	.00185	-.00002	.00006

DZ = 30.000

ALPHAC	IORB
.000	6.00000
2.000	6.00000
4.000	6.00000
GRADIENT	.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58757	-.09908	-.05168	-.04820	.04543	.13901	.00782	-.00148	.00008
.58751	-.03402	-.00815	.11278	.04686	.10019	.01197	-.00150	.00077
.58750	-.11321	-.04740	.27511	.05248	.06283	.01523	-.00165	.00095
-.00002	-.00353	.00107	.08083	.00176	-.01905	.00185	-.00004	.00022

ARC 14-120(CA23B)   747/1 ATI 0251 (CARRIER DATA)   (UNH024)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	6.00000	.58586	.01170	-.06028	-.03946	.04499	.13502	.00819	-.00163	.00040
2.000	6.00000	.58569	-.14933	-.07757	.12987	.04675	.09308	.01354	-.00187	.00048
4.000	6.00000	.58677	-.17441	-.15908	.29287	.05244	.05481	.01639	-.00196	.00096
GRADIENT	.00000	.00023	-.04653	-.02470	.08308	.00186	-.02005	.00205	-.00008	.00014

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58618	.03737	-.02820	-.03565	.04507	.13293	.00885	-.00175	.00011
2.000	6.00000	.58665	-.18265	-.01953	.13267	.04676	.09141	.01352	-.00193	.00038
4.000	6.00000	.58739	-.13851	-.08646	.29806	.05247	.05405	.01587	-.00187	.00086
GRADIENT	.00000	.00030	-.04397	-.01457	.08343	.00185	-.01972	.00175	-.00003	.00019

ARC 14-120(CA23B)   747/1 ATI 0251 (CARRIER DATA)   (UNH025)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58688	-.08582	.17360	-.14796	.04104	.23602	.00792	-.00201	.00092
2.000	8.00000	.58853	-.14166	-.01841	.03207	.04278	.20057	.00934	-.00137	.00181
4.000	8.00000	.58754	-.05494	-.02214	.17814	.04675	.17362	.01319	-.00164	.00106
GRADIENT	.00000	.00016	.00772	-.04893	.08153	.00143	-.01560	.00132	-.00009	.00003

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNH025) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = .000		
IORB = 8.000	DX = .000		
DY = .000	MACH = .600		

DZ = 7.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58726	-.09264	-.12312	.11948	.04251	.21692	.00695	-.00167	.00060
2.000	8.00000	.58832	-.09157	.03961	.02817	.04357	.18305	.00914	-.00134	.00125
4.000	8.00000	.58763	-.06110	.19416	.00034	.04784	.15341	.01343	-.00154	.00100
GRADIENT	.00000	.00009	.00788	.07932	-.02978	.00133	-.01588	.00162	.00003	.00010

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58784	-.09040	-.10433	.08861	.04353	.20450	.00606	-.00140	.00038
2.000	8.00000	.58815	-.03781	.04136	.06364	.04396	.17248	.00862	-.00128	.00099
4.000	8.00000	.58774	-.06054	.20425	.03091	.04857	.14015	.01393	-.00159	.00086
GRADIENT	.00000	-.00003	.00746	.07715	-.01443	.00126	-.01609	.00197	.00005	.00012

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58688	-.11995	-.09466	.04068	.04413	.18738	.00673	-.00138	.00036
2.000	8.00000	.58833	-.06631	.06508	.03239	.04529	.15095	.00996	-.00137	.00040
4.000	8.00000	.58759	-.08560	.22219	.02535	.04961	.11959	.01270	-.00100	.00139
GRADIENT	.00000	.00018	.00859	.07921	-.01651	.00137	-.01695	.00149	.00009	.00026

DZ = 30.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58726	-.13458	-.06970	.04159	.04457	.16028	.00747	-.00146	.00028
2.000	8.00000	.58815	-.11840	.08866	.01715	.04578	.12291	.01127	-.00147	.00099
4.000	8.00000	.58844	-.17807	.25281	-.03594	.05100	.08722	.01445	-.00142	.00131
GRADIENT	.00000	.00029	-.01087	.08063	-.01938	.00161	-.01827	.00174	.00001	.00026

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	8.00000	.58850	-.05870	-.05526	-.01594	.04446	.14871	.00824	-.00177	.00036
2.000	8.00000	.58832	-.09865	.11377	.01874	.04607	.10765	.01304	-.00194	.00072
4.000	8.00000	.58778	-.17449	.27458	.00419	.05147	.07138	.01556	-.00189	.00122
GRADIENT	.00000	-.00018	-.02895	.08246	.00503	.00175	-.01933	.00183	.00003	.00022

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (UNH025)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	8.00000	.58749	.01451	-.04207	-.05097	.04434	.14674	.00654	-.00146	.00067
2.000	8.00000	.58818	-.07501	.01766	.12066	.04592	.10544	.01156	-.00165	.00120
4.000	8.00000	.58720	-.18335	.05471	.28172	.05157	.06820	.01588	-.00194	.00121
GRADIENT	.00000	-.00007	-.04946	.02419	.08317	.00181	-.01963	.00233	-.00012	.00014

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)   (UNH027)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58488	-.04747	.07762	-.05430	.04284	-.07760	.00449	-.00042	.00091
2.000	8.00000	.58749	-.16311	.16832	.12048	.04748	-.11636	.01135	-.00096	-.00086
4.000	8.00000	.58723	-.20081	.04725	.27824	.05396	-.14700	.01014	-.00082	.00075
GRADIENT	.00000	.00059	-.03834	-.00759	.08314	.00278	-.01735	.00141	-.00010	-.00004

DZ = 7.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CY	CL	CD	CLM	CYN	CBL
.000	8.00000	.58594	-.11490	.07994	-.03863	.04405	-.09876	.00695	-.00105	.00039
2.000	8.00000	.58694	-.10494	.09838	.12853	.04811	-.13696	.01008	-.00104	.00001
4.000	8.00000	.58659	-.14418	.05239	.28725	.05527	-.16904	.01089	-.00090	.00079
GRADIENT	.00000	.00016	-.00732	-.00689	.08147	.00281	-.01757	.00098	.00004	.00010

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (UNH027) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000

RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	-.15926	.08776	-.02851	.04487	-.11208	.00851	-.00139	.00000
2.000	-.06494	.04699	.13242	.04844	-.14976	.00879	-.00095	.00084
4.000	-.07448	.06433	.29109	.05611	-.18363	.01146	-.00089	.00085
GRADIENT	.02119	-.00586	.07990	.00281	-.01789	.00074	.00012	.00021

IORB	MACH
8.00000	.58659
8.00000	.58622
8.00000	.59595
.00000	-.00016

DZ = 15.000

RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	-.17151	.04284	-.01384	.04532	-.13360	.00918	-.00164	-.00015
2.000	-.09136	.04109	.14975	.04957	-.17477	.00972	-.00156	.00032
4.000	-.13410	.04469	.30902	.05768	-.20811	.01266	-.00145	.00067
GRADIENT	.00935	.00046	.08071	.00309	-.01863	.00087	.00005	.00021

IORB	MACH
8.00000	.58657
8.00000	.58706
8.00300	.58624
.00000	-.00008

DZ = 30.000

RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	-.13749	.03346	.01446	.04556	-.16926	.01022	-.00222	.00003
2.000	-.10994	.06309	.17631	.05027	-.21123	.01122	-.00204	.00080
4.000	-.12824	.02846	.34228	.05971	-.24451	.01331	-.00177	.00077
GRADIENT	.00231	-.00125	.08196	.00354	-.01881	.00077	.00011	.00019

IORB	MACH
8.00000	.58635
8.00000	.58528
8.00000	.58570
.00000	-.00016

DZ = 45.000

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	-.07774	.00509	.03667	.04568	-.18626	.01111	-.00272	-.00002
2.000	-.08693	.07027	.20104	.05063	-.22874	.01297	-.00281	.00071
4.000	-.16555	-.00382	.36724	.06023	-.26065	.01406	-.00239	.00094
GRADIENT	-.02195	-.00223	.08264	.00364	-.01860	.00074	.00008	.00024

IORB	MACH
8.00000	.58545
8.00000	.58604
8.00000	.58548
.00000	.00001

DZ = 50.000

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	.04402	.04160	.02575	.04505	-.18498	.01053	-.00278	.00018
2.000	-.10936	.05879	.19856	.05052	-.23158	.01319	-.00288	.00052
4.000	-.16369	.07356	.37337	.03068	-.26409	.01444	-.00250	.00067
GRADIENT	-.05193	.00799	.08691	.00391	-.01978	.00098	.00007	.00012

IORB	MACH
8.00000	.58502
8.00000	.58562
8.00000	.58532
.00000	.00007

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (UNH034)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	6.00000	.58836	-.09135	-.01652	-.03268	.04592	-.13213	.01209	-.00335	.00054
2.000	6.00000	.58780	.17907	-.08260	.13357	.04994	-.17659	.01418	-.00306	.00051
4.000	6.00000	.58729	.00698	.01949	.29278	.05817	-.21189	.01574	-.00282	.00049
GRADIENT	.00000	-.00027	.02458	-.00074	.06137	.00306	-.01994	.00091	.00013	-.00001

DZ = 7.500

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58714	-.10221	-.02782	-.01674	.04650	-.15176	.01218	-.00302	-.00012
2.000	6.00000	.58690	.05748	-.04403	.14699	.05062	-.19335	.01327	-.00267	.00051
4.000	6.00000	.58754	-.00159	-.04800	.30774	.05903	-.22759	.01416	-.00225	.00073
GRADIENT	.00000	-.00010	.02516	-.00505	.08112	.00313	-.01896	.00049	.00019	.00021

DZ = 10.000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58771	-.09950	-.02445	-.00959	.04641	-.15794	.01144	-.00279	.00026
2.000	6.00000	.58687	.05662	-.03676	.15111	.05070	-.20081	.01260	-.00252	.00046
4.000	6.00000	.58669	-.03795	-.06593	.31357	.05955	-.23488	.01375	-.00203	.00068
GRADIENT	.00000	-.00026	.01539	-.01037	.08079	.00328	-.01923	.00058	.00019	.00010

DZ = 15.000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58751	-.08943	-.05005	-.00199	.04646	-.17012	.01069	-.00229	-.00012
2.000	6.00000	.58668	.05800	-.05788	.16662	.05121	-.21307	.01251	-.00202	.00007
4.000	6.00000	.58727	-.05445	-.07621	.32957	.06033	-.24570	.01387	-.00157	.00065
GRADIENT	.00000	-.00005	.00875	-.00654	.08289	.00347	-.01889	.00080	.00018	.00019

DZ = 30.000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.58634	-.06173	-.00569	.02124	.04650	-.18901	.01274	-.00295	-.00021
2.000	6.00000	.58733	.02490	-.04001	.18996	.05156	-.23293	.01365	-.00274	.00047
4.000	6.00000	.58711	-.07390	-.09332	.35743	.06122	-.26527	.01415	-.00208	.00035
GRADIENT	.00000	.00013	-.00304	-.02191	.08405	.00368	-.01906	.00035	.00022	.00014

ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)   (UNH034)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBI
.000	6.00000	.58727	-.01533	.03568	.04619	-.19882	-.05004	.01285	-.00321	-.00001
2.000	6.00000	.58711	-.12592	.20726	.05140	-.24180	-.06051	.01316	-.00301	-.00077
4.000	6.00000	.58752	-.15392	.37482	.06128	-.27317	-.00100	.01473	-.00268	-.00089
GRADIENT	.00000	.00006	-.03465	.08453	.00377	-.01859	.01276	.00047	.00013	.00023

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
.000	6.00000	.58796	.05894	.03675	.04585	-.19898	.01188	.01133	-.00299	.00045
2.000	6.00000	.58812	-.14432	.20765	.05115	-.24355	-.02287	.01317	-.00290	.00084
4.000	6.00000	.58765	-.16747	.37926	.06107	-.27534	-.05059	.01493	-.00262	.00134
GRADIENT	.00000	-.00008	-.05660	.08563	.00381	-.01909	-.01562	.00090	.00009	.00022

ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)   (UNH035)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	CL	CD	CLM	DY	CY	CYN	CBL
.000	4.00000	.58696	-.07973	-.00147	.04771	-.19962	.05157	.01159	-.00206	-.00045
2.000	4.00000	.58770	-.01208	.16456	.05234	-.23248	.10413	.01191	-.00185	.00034
4.000	4.00000	.58780	-.03882	.32868	.06121	-.26341	.03346	.01348	-.00146	.00040
GRADIENT	.00000	.00021	.01023	.08254	.00337	-.01595	-.00453	.00047	.00015	.00021

ARC 14-120(CA23B)　747/1 AT1 O3S1 (CARRIER DATA)　　　(UNH035)　(17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .2000 IN. YC		RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 7.500　　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	4.00000	.58699	-.16588	.05294	.01516	.04781	-.20726	.01140	-.00196	-.00038
2.000	4.00000	.58732	.07436	.05716	.17637	.05237	-.23935	.01258	-.00182	.00031
4.000	4.00000	.58723	-.00439	.06897	.33802	.06168	-.26922	.01344	-.00137	.00012
GRADIENT	4.00000	.00006	.04037	.00401	.08071	.00347	-.01549	.00051	.00015	.00012

DZ = 10.000　　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58779	-.07609	.12369	.02157	.04754	-.20867	.01095	-.00200	.00025
2.000	4.00000	.58794	.10970	.05689	.18617	.05236	-.24368	.01280	-.00177	.00024
4.000	4.00000	.58841	.00020	.07970	.34709	.06164	-.27260	.01370	-.00126	.00016
GRADIENT	4.00000	.00016	.01907	-.01100	.08138	.00352	-.01598	.00069	.00018	-.00002

DZ = 15.000　　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58849	-.17434	.06725	.02856	.04738	-.21150	.01143	-.00176	-.00029
2.000	4.00000	.58824	-.06427	.07796	.19468	.05251	-.24642	.01266	-.00145	-.00038
4.000	4.00000	.58819	-.07067	.01371	.35654	.06196	-.27566	.01318	-.00106	.00030
GRADIENT	4.00000	-.00007	.02592	-.01339	.08199	.00365	-.01604	.00044	.00018	.00015

DZ = 30.000　　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58969	-.07086	.09440	.03922	.04663	-.21515	.01226	-.00272	.00051
2.000	4.00000	.58898	-.10285	.05238	.20961	.05201	-.25376	.01419	-.00266	.00069
4.000	4.00000	.58898	-.16552	.05946	.38056	.06197	-.28366	.01506	-.00215	.00074
GRADIENT	4.00000	-.00018	-.02367	-.00873	.08534	.00383	-.01713	.00070	.00014	.00006

DZ = 45.000　　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58793	.04568	.10000	.05016	.04644	-.21639	.01278	-.00297	.00009
2.000	4.00000	.58837	-.13136	.04855	.21359	.05162	-.25473	.01368	-.00266	.00034
4.000	4.00000	.58880	-.19234	.00955	.38790	.06169	-.28557	.01536	-.00237	.00071
GRADIENT	4.00000	.00022	-.05951	-.02261	.08443	.00381	-.01729	.00065	.00015	

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =		STAB =	.000	5.000
RUDDER =		ELEVON =	.000	.000
IORB =		DX =	4.000	.000
DY =		MACH =	.000	.600

DZ = 50.000

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	4.00000	.58712	.05959	.08025	.05400	.04644	-.21679	.01307	-.00295	-.00031
2.000	4.00000	.58810	-.16166	.05529	.21377	.05152	-.25435	.01329	-.00248	-.00000
4.000	4.00000	.58850	-.20141	-.03100	.38875	.06161	-.28565	.01518	-.00231	-.00068
GRADIENT	.00000	.00035	-.06525	-.02781	.08369	.00379	-.01722	.00053	.00016	.00025

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =		STAB =	.000	5.000
RUDDER =		ELEVON =	.000	5.000
IORB =		DX =	4.000	.000
DY =		MACH =	.000	.600

DZ = 3.500

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58585	-.03191	.01407	-.01942	.04635	-.14557	.01474	-.00362	-.00019
2.000	4.00000	.58731	-.01566	-.03599	.15274	.05076	-.18646	.01557	-.00338	-.00003
4.000	4.00000	.58671	-.06186	-.01604	.31372	.05894	-.22270	.01765	-.00329	-.00032
GRADIENT	.00000	.00022	-.00749	-.00753	.08329	.00315	-.01928	.00073	.00008	.00013

DZ = 7.500

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.58538	-.05427	.08346	-.00171	.04682	-.15883	.01544	-.00418	-.00044
2.000	4.00000	.58728	-.05303	-.00542	.16051	.05108	-.19795	.01498	-.00346	-.00031
4.000	4.00000	.58751	-.06491	-.02533	.32261	.05953	-.23335	.01745	-.00329	-.00046
GRADIENT	.00000	.00053	-.00016	-.02720	.08108	.00318	-.01863	.00050	.00022	.00023

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (UNH040)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	.000	DX =	.000
DY =	4.000	MACH =	.600

DZ = 10.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBI
.000	4 .00000	.58556	-.10009	.08607	.00535	.04658	-.16653	.01607	-.00436	.00002
2.000	4 .00000	.58579	-.05271	.00618	.16581	.05106	-.20515	.01551	-.00356	.00060
4.000	4 .00000	.58753	-.09386	-.02923	.32991	.05991	-.24058	.01737	.00327	.00036
GRADIENT	.00000	.00049	.00156	-.02883	.08114	.00333	-.01851	.00033	.00027	.00009

DZ = 15.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4 .00000	.58574	-.08259	.05888	.00184	.04624	-.17375	.01409	-.00401	-.00008
2.000	4 .00000	.58678	-.05371	-.05011	.18348	.05151	-.21870	.01544	-.00342	.00027
4.000	4 .00000	.58737	-.03650	-.06713	.34296	.06053	-.25088	.01683	-.00307	.00054
GRADIENT	.00000	.00041	.01152	-.03150	.08528	.00357	-.01928	.00068	.00024	.00015

DZ = 30.000   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4 .00000	.58568	-.11834	.06133	.02073	.04598	-.19353	.01357	-.00334	.00001
2.000	4 .00000	.58780	-.04836	.03333	.19987	.05162	-.23772	.01437	-.00298	.00067
4.000	4 .00000	.58718	-.09299	-.04051	.36336	.06124	-.26893	.01500	-.00240	.00075
GRADIENT	.00000	.00038	.00634	-.02546	.08566	.00382	-.01885	.00036	.00023	.00018

DZ = 45.000   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4 .00000	.58585	.03619	.07788	.03011	.04566	-.19892	.01303	-.00302	-.00002
2.000	4 .00000	.58757	-.12600	.00303	.20670	.05147	-.24439	.01417	-.00281	.00012
4.000	4 .00000	.58694	-.16483	-.04890	.38019	.06165	-.27747	.01589	-.00245	.00061
GRADIENT	.00000	.00027	-.05025	-.03169	.08752	.00400	-.01964	.00072	.00014	.00016

DZ = 50.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4 .00000	.58550	.11191	.07140	.03124	.04555	-.19949	.01255	-.00292	-.00012
2.000	4 .00000	.58745	-.22841	-.02607	.20972	.05146	-.24641	.01417	-.00277	-.00017
4.000	4 .00000	.58688	-.18856	-.05982	.38609	.06179	-.27987	.01643	-.00253	.00057
GRADIENT	.00000	.00025	-.07512	-.03280	.09371	.00406	-.02010	.00097	.00010	.00017

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)

(UNHX10)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000   STAB = 5.000
RUDDER = .000 ELEVON = 5.000
IORB = 8.000   DX = .000
DY = .000   MACH = .600

DZ = 3.500   RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59470	.69102	.07986	.04387	-.05559	.01316	-.00339	-.00011
4.000	8.00000	.00000	.59129	.65567	.23997	.04971	-.09165	.01442	-.00303	-.00079
GRADIENT	.00000	.00000	-.00171	-.01768	.08006	.00292	-.01803	.00063	.00018	.00045

DZ = 7.500   RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59623	.10196	.03823	.04524	-.08210	.01339	-.00317	.00025
4.000	8.00000	.00000	.59497	.12026	.25938	.05196	-.12044	.01493	-.00279	.00083
GRADIENT	.00000	.00000	-.00063	.00915	.08057	.00336	-.01917	.00077	.00019	.00029

DZ = 10.000   RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59778	-.40753	.11034	.04616	-.09913	.01393	-.00303	.00061
4.000	8.00000	.00000	.59813	-.29938	.27248	.05352	-.13902	.01562	-.00262	.00100
GRADIENT	.00000	.00000	.00017	.05407	.08107	.00368	-.01995	.00085	.00020	.00020

DZ = 15.000   RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59647	-.37808	.12903	.04747	-.12887	.01219	-.00280	.00043
4.000	8.00000	.00000	.59743	-.41522	.29092	.05538	-.16973	.01424	-.00246	.00043
GRADIENT	.00000	.00000	.00048	-.01857	.08095	.00395	-.02043	.00103	.00017	.00000

DZ = 30.000   RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59650	-.47262	.17058	.04958	-.18462	.01295	-.00306	.00030
4.000	8.00000	.00000	.59596	-.47028	.33210	.05836	-.22147	.01447	-.00294	.00061
GRADIENT	.00000	.00000	-.00027	.00117	.08076	.00439	-.01842	.00076	.00006	.00016

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (UNHX10)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 8.000	DX = .000	
DY = .000	MACH = .600	

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	.00000	.59632	-.43160	.19343	.05035	-.20987	.01274	-.00297	.00051
4.000	8.00000	.00000	.59524	-.47800	.35672	.06008	-.24412	.01443	-.00280	.00049
GRADIENT		.00000	-.00054	-.02320	.08165	.00486	-.01713	.00084	-.00008	-.00001

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59473	-.49407	.19671	.05053	-.21516	.01189	-.00289	.00053
4.000	8.00000	.00000	.59448	-.53399	.36506	.06026	-.24982	.01436	-.00265	.00077
GRADIENT		.00000	-.00013	-.02496	.08417	.00487	-.01733	.00124	-.00002	.00012

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (UNHX13)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	5.00000	.00000	.59463	-.40468	.11786	.04770	-.12704	.01061	-.00111	.00015
4.000	6.00000	.00000	.59358	-.50809	.27632	.05509	-.16120	.01194	-.00084	.00047
GRADIENT		.00000	-.00052	-.05171	.07923	.00369	-.01708	.00067	.00013	.00016

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59270	-.47674	.12999	.04878	-.14788	.00934	-.00085	.00049
4.000	6.00000	.00000	.59228	-.49008	.29249	.05685	-.18256	.01120	-.00071	.00071
GRADIENT		.00000	-.00021	-.00667	.08125	.00403	-.01734	.00093	.00007	.00011

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (UNHX13)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC		BETA =	.000	STAB =	5.000
LREF = 327.7800 IN.	YMRP =	.0000 IN. YC		RUDDER =	.000	ELEVON =	5.000
BREF = 2348.0400 IN.	ZMRP =	190.7500 IN. ZC		IORB =	6.000	DX =	.000
SCALE = .0125				DY =	.000	MACH =	.600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59175	-.56964	.14066	.04934	-.15898	.00910	-.00088	.00031
4.000	6.00000	.00000	.59204	-.58322	.30184	.05744	-.19377	.01136	-.00080	.00042
GRADIENT	.00000	.00000	.00014	-.00679	.08059	.00405	-.01740	.00113	-.00004	.00005

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59106	-.48587	.15017	.05013	-.17885	.00960	-.00113	.00033
4.000	6.00000	.00000	.59101	-.51963	.31490	.05857	-.21221	.01164	-.00099	.00045
GRADIENT	.00000	.00000	-.00003	-.01688	.08236	.00422	-.01668	.00102	.00007	.00006

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59039	-.52819	.18294	.05109	-.21177	.01149	-.00213	.00024
4.000	6.00000	.00000	.59057	-.50028	.34257	.06019	-.24351	.01407	-.00223	.00067
GRADIENT	.00000	.00000	.00009	.01395	.07986	.00455	-.01587	.00129	-.00005	.00021

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59084	-.52069	.20228	.05141	-.22618	.01184	-.00236	.00009
4.000	6.00000	.00000	.59105	-.54159	.36404	.06099	-.25773	.01403	-.00239	.00058
GRADIENT	.00000	.00000	.00011	-.01045	.08088	.00479	-.01578	.00110	-.00002	.00029

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59149	-.51807	.20609	.05134	-.23104	.01162	-.00235	.00069
4.000	6.00000	.00000	.59137	-.55625	.37143	.06106	-.26206	.01428	-.00243	.00096
GRADIENT	.00000	.00000	-.00006	-.01909	.08267	.00486	-.01551	.00133	-.00004	.00014

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (UNHX14)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	10.00000	.58921	-.60672	.12788	.04660	-.12633	.00885	.00010	.00026
4.000	6.00000	10.00000	.58810	-.62422	.29670	.05489	-.16041	.01086	.00012	.00030
GRADIENT	.00000	.00000	-.00056	-.00875	.08441	.00414	-.01704	.00100	.00001	.00002

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59102	-.57802	.14955	.04875	-.15325	.00915	-.00002	-.00023
4.000	6.00000	10.00000	.59031	-.57576	.31117	.05691	-.18328	.01084	.00013	.00022
GRADIENT	.00000	.00000	-.00035	.00063	.08081	.00408	-.01501	.00085	.00008	.00023

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58959	-.65106	.15406	.04937	-.16392	.00722	.00025	-.00008
4.000	6.00000	10.00000	.58965	-.62205	.31742	.05804	-.19568	.01004	.00015	-.00029
GRADIENT	.00000	.00000	.00003	.01450	.08168	.00433	-.01588	.00141	-.00005	.00018

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58831	-.55318	.16422	.05008	-.18437	.00922	-.00045	.00029
4.000	6.00000	10.00000	.58836	-.65905	.33464	.05921	-.21827	.01162	-.00050	.00023
GRADIENT	.00000	.00000	.00002	-.05293	.08521	.00456	-.01695	.00120	-.00002	-.00003

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58818	-.54427	.19849	.05130	-.22142	.01122	-.00198	.00039
4.000	6.00000	10.00000	.59074	-.65315	.36235	.06104	-.24949	.01328	-.00192	.00070
GRADIENT	.00000	.00000	.00128	-.05444	.08193	.00487	-.01403	.00103	-.00003	.00016

DATE 22 MAR 76　　TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)　　(UNHX14)　(17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

DZ = 45.000　　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	10.00000	.59228	-.58631	.20857	.05147	-.23527	.01041	-.00225	.00088
4.000	6.00000	10.00000	.59176	-.62227	.38107	.06185	-.26432	.01313	-.00216	.00061
GRADIENT	.00000	.00000	-.00026	-.01798	.03625	.00519	-.01452	.00136	-.00005	-.00013

DZ = 50.000　　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59041	-.57745	.21844	.05185	-.23842	.01167	-.00232	.00049
4.000	6.00000	10.00000	.59056	-.62433	.38423	.06199	-.26654	.01356	-.00221	.00101
GRADIENT	.00000	.00000	.00008	-.02344	.08290	.00507	-.01406	.00095	-.00006	.00026

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)　　(UNHX15)　(17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

DZ = 3.500　　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59219	-.59402	.10248	.04391	-.05484	.00750	.00008	.00037
4.000	8.00000	10.00000	.58993	-.65242	.26165	.05117	-.08262	.01211	-.00049	.00004
GRADIENT	.00000	.00000	-.00113	-.02920	.07959	.00363	-.01389	.00231	-.00029	-.00017

DZ = 7.500　　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59002	-.66536	.11980	.04580	-.08403	.00853	-.00026	.00033
4.000	8.00000	10.00000	.58944	-.65825	.28269	.05350	-.11400	.01168	-.00056	.00016
GRADIENT	.00000	.00000	-.00029	.00356	.08144	.00385	-.01498	.00157	-.00015	-.00008

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (UNHX15)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 10.000
DY = .000	MACH = .600

DZ = 10.000   PN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58891	-.69918	.13157	.04714	-.10219	.00896	-.00042	.00039
4.000	8.00000	10.00000	.58894	-.64470	.29669	.05508	-.13423	.01121	-.00060	.00033
GRADIENT	.00000	.00000	.00001	.02724	.09256	.00397	-.01602	.00113	-.00009	-.00003

DZ = 15.000   PN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58823	-.73661	.14907	.04855	-.13334	.01014	-.00083	-.00030
4.000	8.00000	10.00000	.58908	-.71417	.31657	.05721	-.16749	.01183	-.00079	.00006
GRADIENT	.00000	.00000	.00082	-.01122	.08375	-.00433	-.01707	.00084	.00002	.00018

DZ = 30.000   PN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58915	-.59283	.18411	.05048	-.18845	.01107	-.00228	.00087
4.000	8.00000	10.00000	.59073	-.65031	.34837	.05987	-.22122	.01382	-.00234	.00101
GRADIENT	.00000	.00000	.00079	-.02874	.08213	.00469	-.01639	.00137	-.00003	.00007

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58995	-.70121	.20365	.05113	-.21479	.01164	-.00258	.00056
4.000	8.00000	10.00000	.58956	-.69625	.36760	.06094	-.24574	.01412	-.00253	.00118
GRADIENT	.00000	.00000	-.00020	.00248	.03198	.00490	-.01548	.00124	.00003	.00031

DZ = 50.000   PN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58887	-.71338	.20659	.05125	-.21978	.01184	-.00277	.00067
4.000	8.00000	10.00000	.58933	-.67087	.37512	.06133	-.25069	.01420	-.00262	.00082
GRADIENT	.00000	.00000	.00023	.02125	.08426	.00504	-.01546	.00118	.00007	.00008

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

REFERENCE DATA   (UNHX16)   (17 OCT 75)

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 20.000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	20.00000	.58974	-.85011	.15085	.04630	-.12689	.00776	-.00008	.00022
4.000	6.00000	20.00000	.59003	-.76988	.31587	.05538	-.15537	.01061	-.00031	.00038
GRADIENT	.00000	.00000	.00015	.04011	.08251	.00454	-.01424	.00143	-.00011	.00008

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58931	-.81185	.16466	.04897	-.15231	.00855	-.00042	.00032
4.000	6.00000	20.00000	.58946	-.81231	.32781	.05757	-.18086	.01110	-.00050	.00041
GRADIENT	.00000	.00000	.00008	-.00023	.08158	.00430	-.01428	.00127	-.00004	.00005

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.59013	-.76413	.16611	.04979	-.16466	.00782	-.00037	.00025
4.000	6.00000	20.00000	.58931	-.80148	.33252	.05852	-.19278	.01108	-.00054	.00033
GRADIENT	.00000	.00000	-.00041	-.01867	.08320	.00437	-.01406	.00163	-.00009	.00004

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58937	-.84082	.18321	.05046	-.18553	.00857	-.00083	.00053
4.000	6.00000	20.00000	.58980	-.75321	.34561	.05962	-.21346	.01207	-.00102	.00008
GRADIENT	.00000	.00000	.00022	.04380	.08120	.00458	-.01397	.00175	-.00009	-.00023

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
.00	6.00000	20.00000	.59004	-.80629	.20357	.05179	-.21954	.01067	-.00219	.00058
4.000	6.00000	20.00000	.59027	-.85063	.36766	.06124	-.24640	.01311	-.00224	.00099
GRADIENT	.00000	.00000	.00011	-.02217	.08204	.00472	-.01343	.00122	-.00003	.00020

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (UNHX16)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 20.000
DY = .000	MACH = .600

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	20.00000	.58948	-.75331	.21949	.05221	-.23442	.01117	-.00249	.00068
4.000	6.00000	20.00000	.58970	-.77027	.28645	.06213	-.26107	.01414	-.00253	.00088
GRADIENT	.00000	.00000	.00011	-.00848	.08348	.00496	-.01332	.00149	-.00002	.00010

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58887	-.80299	.21729	.05188	-.23714	.01084	-.00246	.00085
4.000	6.00000	20.00000	.58896	-.77864	.39954	.06237	-.26406	.01419	-.00254	.00109
GRADIENT	.00000	.00000	.00005	.01218	.08613	.00525	-.01346	.00168	-.00004	.00012

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (UNHX17)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 20.000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58981	-.53583	.11412	.04261	-.06286	.00893	-.00097	-.00027
4.000	8.00000	20.00000	.58835	-.91880	.28990	.05042	-.07928	.01512	-.00127	.00056
GRADIENT	.00000	.00000	-.00073	-.19148	.09789	.00390	-.00821	.00309	-.00015	.00041

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59078	-.71654	.13327	.04475	-.08828	.00987	-.00118	.00007
4.000	8.00000	20.00000	.58999	-.86406	.30140	.05254	-.11053	.01392	-.00132	.00035
GRADIENT	.00000	.00000	-.00039	-.07376	.08407	.00389	-.01112	.00203	-.00007	.00014

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNHX17)   (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 8.000	DX = 20.000
SCALE = .0125			DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	20.00000	.59142	-.82520	.14666	.04637	-.10403	.01040	-.00132	.00039
4.000	8.00000	20.00000	.59107	-.81252	.30947	.05403	-.13156	.01296	-.00134	.00012
GRADIENT	.00000	.00000	-.00017	.00634	.09141	.00383	-.01377	.00128	-.00001	-.00013

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59121	-.83998	.15527	.04760	-.13366	.01119	-.00165	.00002
4.000	8.00000	20.00000	.59220	-.83206	.32078	.05581	-.16206	.01288	-.00151	.00043
GRADIENT	.00000	.00000	-.00050	.00396	.08275	.00411	-.01420	.00084	-.00007	.00021

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59109	-.87982	.18382	.04949	-.18722	.01161	-.00273	.00096
4.000	8.00000	20.00000	.59091	-.77306	.35363	.05879	-.21752	.01556	-.00292	.00081
GRADIENT	.00000	.00000	-.00009	.05338	.08491	.00465	-.01515	.00197	-.00010	-.00007

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59145	-.82857	.20581	.05047	-.21453	.01200	-.00278	.00033
4.000	8.00000	20.00000	.59106	-.78742	.37328	.06041	-.24264	.01493	-.00282	.00028
GRADIENT	.00000	.00000	-.00020	.02058	.03373	.00497	-.01405	.00147	-.00002	-.00002

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59044	-.87139	.20322	.05040	-.21834	.01199	-.00291	.00079
4.000	8.00000	20.00000	.59121	-.82092	.37291	.06030	-.24725	.01427	-.00274	.00086
GRADIENT	.00000	.00000	-.00039	.02523	.08485	.00495	-.01445	.00114	-.00008	.00004

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (UNHX27) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 8.000	DX = 8.000	
DY = .000	MACH = .600	

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58756	.15855	.12000	.04743	-.11635	.01142	-.00103	-.00082
4.000	8.00000	.00000	.58727	.04730	.27853	.05395	-.14668	.01018	-.00081	.00073
GRADIENT	.00000	.00000	-.00014	-.05562	.07926	.00326	-.01516	-.00062	.00011	.00077

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58696	.09435	.12840	.04810	-.13706	.01013	-.00108	.00002
4.000	8.00000	.00000	.58662	.05201	.28738	.05528	-.16894	.01094	-.00091	.00078
GRADIENT	.00000	.00000	-.00017	-.02117	.07949	.00359	-.01594	.00041	.00009	.00038

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58623	.04488	.13235	.04844	-.14983	.00884	-.00098	.00084
4.000	8.00000	.00000	.58597	.06129	.29109	.05613	-.18372	.01149	-.00091	.00085
GRADIENT	.00000	.00000	-.00013	.00820	.07937	.00385	-.01695	.00133	.00003	.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58706	.04020	.14975	.04957	-.17478	.00973	-.00156	.00031
4.000	8.00000	.00000	.58628	.04479	.30915	.05768	-.20803	.01264	-.00144	.00067
GRADIENT	.00000	.00000	-.00039	.00230	.07970	.00406	-.01663	.00145	.00006	.00018

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58533	.06130	.17642	.05028	-.21128	.01124	-.00205	-.00079
4.000	8.00000	.00000	.58575	.02755	.34235	.05972	-.24449	.01331	-.00177	.00076
GRADIENT	.00000	.00000	.00021	-.01687	.08296	.00472	-.01661	.00104	.00014	-.00002

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (UNHX27)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB = .000	5.000	BETA =	
ELEVON = .000	.000	RUDDER =	
DX = 8.000	.300	IORB =	
MACH = .000	.600	DY =	

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58607	.06827	.20103	.05064	-.22877	.01297	-.00281	.00071
4.000	8.00000	.00000	.58557	-.00121	.36729	.06025	-.26062	.01408	-.00240	.00093
GRADIENT	.00000	.00000	-.00025	-.03474	.08313	.00481	-.01593	.00056	.00021	.00011

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58565	.05736	.19867	.05053	-.23161	.01317	-.00289	.00054
4.000	8.00000	.00000	.58536	.07269	.37330	.06068	-.26405	.01443	-.00250	.00070
GRADIENT	.00000	.00000	-.00015	.00767	.08731	.00508	-.01622	.00063	.00019	.00008

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (UNHX28)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

STAB = .000	5.000	BETA =	
ELEVON = .000	.000	RUDDER =	
DX = 6.000	10.000	IORB =	
MACH = .000	.600	DY =	

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58687	-.01230	.14405	.04857	-.17410	.01118	-.00173	.00022
4.000	6.00000	10.00000	.58723	.09360	.31189	.05784	-.20581	.01292	-.00154	.00048
GRADIENT	.00000	.00000	.00018	.05295	.08392	.00464	-.01586	.00087	.00009	.00013

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58766	.02369	.16089	.05001	-.19444	.01083	-.00146	.00022
4.000	6.00000	10.00000	.58809	.03178	.32618	.05885	-.22447	.01246	-.00121	.00031
GRADIENT	.00000	.00000	.00022	.00404	.08264	.00442	-.01501	.00082	.00012	.00005

ARC 14-120(CA23B)   747/1 A1I 03S1 (CARRIER DATA)

(UNHX28)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = 10.000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58624	-.00874	.16971	.05029	-.20397	.00979	-.00115	.00015
4.000	6.00000	10.00000	.58656	.05953	.33064	.05940	-.23247	.01163	-.00095	.00047
GRADIENT	.00000	.00000	.00016	.03414	.08046	.00456	-.01425	.00092	.00010	.00016

DZ = 15.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58701	.08814	.18158	.05089	-.21727	.01062	-.00101	.00007
4.000	6.00000	10.00000	.58720	-.02589	.34148	.06019	-.24514	.01080	-.00067	.00048
GRADIENT	.00000	.00000	.00010	-.03113	.07995	.00465	-.01393	.00009	.00017	.00021

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58688	.05832	.19842	.05092	-.23814	.01148	-.00217	.00081
4.000	6.00000	10.00000	.58711	.06636	.36468	.06133	-.26590	.01354	-.00193	.00064
GRADIENT	.00000	.00000	.00012	.00402	.08313	.00521	-.01388	.00103	.00012	-.00008

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58645	-.01492	.20986	.05104	-.24617	.01230	-.00264	.00093
4.000	6.00000	10.00000	.58643	.07284	.27668	.06170	-.27337	.01450	-.00249	.00118
GRADIENT	.00000	.00000	-.00001	.04398	.08341	.00533	-.01360	.00110	.00008	.00013

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58633	.05297	.21651	.05122	-.24889	.01287	-.00273	.00072
4.000	6.00000	10.00000	.58669	.02953	.38688	.06172	-.27487	.01430	-.00238	.00109
GRADIENT	.00000	.00000	.00018	-.01172	.08519	.00525	-.01299	.00071	.00017	.00019

ARC 14-120(CA23B) 747/1 AT1 O351 (CARRIER DATA)   (UNHX29) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = 10.000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58965	.07085	.11519	.04512	-.11175	.01026	-.00156	.00035
4.000	8.00000	10.00000	.58806	.00873	.28321	.05402	-.13869	.01470	-.00178	.00004
GRADIENT	.00000	.00000	-.00080	-.03106	.08401	.00445	-.01347	.00222	-.00011	-.00016

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58849	.03020	.13195	.04691	-.13503	.01023	-.00145	.00047
4.000	8.00000	10.00000	.58815	.03353	.29675	.05550	-.16259	.01319	-.00140	.00043
GRADIENT	.00000	.00000	-.00017	.00167	.08240	.00430	-.01378	.00148	.00002	-.00002

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58770	-.01491	.14345	.04810	-.14957	.01033	-.00141	.00064
4.000	8.00000	10.00000	.58827	.04742	.30592	.05654	-.17827	.01218	-.00116	.00079
GRADIENT	.00000	.00000	.00028	.03117	.08123	.00422	-.01435	.00093	.00013	.00008

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58809	.09362	.15801	.04928	-.17308	.00942	-.00095	.00015
4.000	8.00000	10.00000	.58829	.06535	.31924	.05772	-.20266	.01105	-.00076	.00054
GRADIENT	.00000	.00000	.00010	-.01414	.08062	.00422	-.01479	.00081	.00010	.00019

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58839	.05480	.18838	.05023	-.21388	.01129	-.00178	.00022
4.000	8.00000	10.00000	.58842	.05027	.34993	.05999	-.24241	.01305	-.00162	.00055
GRADIENT	.00000	.00000	.00001	-.00226	.08078	.00488	-.01427	.00088	.00008	.00017

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (UNHX29)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
1ORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	1ORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58880	.06013	.20265	.05083	-.23114	.01247	-.00262	.00054
4.000	8.00000	10.00000	.58936	.11899	.37063	.06075	-.25919	.01490	-.00252	.00070
GRADIENT	.00000	.00000	.00028	.02943	.08399	.00496	-.01403	.00122	.00005	.00008

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	1ORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.58687	.05102	.20513	.05061	-.23353	.01233	-.00268	.00094
4.000	8.00000	10.00000	.58724	.07609	.37211	.06075	-.26181	.01391	-.00234	.00132
GRADIENT	.00000	.00000	.00019	.01254	.08349	.00507	-.01414	.00079	.00017	.00019

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (UNHX30)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
1ORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	1ORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58488	.02299	.12627	.04521	-.11313	.01115	-.00188	.00125
4.000	8.00000	20.00000	.58554	.04884	.29472	.05344	-.13389	.01389	-.00183	.00146
GRADIENT	.00000	.00000	.00033	.01293	.08422	.00411	-.01038	.00137	.00002	.00011

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	1ORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.59582	.03582	.14310	.04676	-.13710	.01084	-.00165	.00091
4.000	8.00000	20.00000	.58609	.03591	.30726	.05505	-.15953	.01315	-.00154	.00112
GRADIENT	.00000	.00000	.00013	.00004	.08208	.00414	-.01122	.00116	.00006	.00010

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)

(UNHX30)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	20.00000	.58700	.05242	.15653	.04799	-.15160	.01069	-.00150	.00070
4.000	8.00000	20.00000	.58651	.02600	.31620	.05620	-.17647	.01268	-.00136	.00083
GRADIENT	.00000	.00000	-.00024	-.01321	.07983	.00410	-.01243	.00099	.00007	.00006

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58572	.03261	.16416	.04846	-.17519	.01012	-.00126	.00049
4.000	8.00000	20.00000	.58660	.02195	.32639	.05737	-.20131	.01206	-.00108	.00088
GRADIENT	.00000	.00000	.00044	-.00533	.08111	.00446	-.01306	.00097	.00009	.00020

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58806	.04541	.18839	.04961	-.21351	.01042	-.00185	.00065
4.000	8.00000	20.00000	.58578	.08552	.35635	.05953	-.24102	.01301	-.00173	.00130
GRADIENT	.00000	.00000	-.00114	.02006	.08398	.00496	-.01376	.00130	.00006	.00032

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58763	.06524	.21087	.05079	-.23214	.01205	-.00260	.00051
4.000	8.00000	20.00000	.58716	.09032	.36611	.06020	-.25807	.01374	-.00238	.00101
GRADIENT	.00000	.00000	-.00024	.01254	.07762	.00470	-.01297	.00085	.00011	.00025

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	20.00000	.58729	-.00144	.20731	.05050	-.23566	.01193	-.00271	.00109
4.000	8.00000	20.00000	.58764	.06742	.37673	.06062	-.26171	.01468	-.00257	.00095
GRADIENT	.00000	.00000	.00017	.03443	.08471	.00506	-.01303	.00137	.00007	-.00007

ARC 14-120(CA23B)   747/1 ATI 03S1 (CARRIER DATA)   (UNHX31)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA   =   .000   STAB   =   5.000
RUDDER =   .000   ELEVON =   .000
IORB   = 6.000   DX   = 20.000
DY   =   .000   MACH   =   .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58478	.03430	.13741	.04711	-.17745	.01068	-.00189	.00102
4.000	6.00000	20.00000	.58701	.11658	.31694	.05692	-.20895	.01190	-.00149	.00047
GRADIENT	.00000	.00000	.00111	.04114	.08976	.00490	-.01575	.00061	.00020	-.00027

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58600	.05331	.15647	.04859	-.19414	.01039	-.00161	.00082
4.000	6.00000	20.00000	.58679	.08012	.32978	.05825	-.22252	.01192	-.00125	.00063
GRADIENT	.00000	.00000	.00040	.01341	.08666	.00483	-.01419	.00077	.00018	-.00010

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58711	.07032	.17216	.04975	-.20444	.01025	-.00144	.00052
4.000	6.00000	20.00000	.58647	.05234	.33911	.05919	-.23107	.01199	-.00110	.00083
GRADIENT	.00000	.00000	-.00032	-.00899	.08347	.00472	-.01332	.00087	.00017	.00015

DZ = 15.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58716	.07484	.17844	.05033	-.21839	.00996	-.00117	.00126
4.000	6.00000	20.00000	.58714	.02941	.24826	.06012	-.24511	.01190	-.00093	.00060
GRADIENT	.00000	.00000	-.00001	-.02271	.08491	.00489	-.01336	.00097	.00012	-.00033

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58705	.07432	.20063	.05133	-.24082	.01234	-.00240	.00059
4.000	6.00000	20.00000	.58711	.06357	.36780	.06108	-.26764	.01247	-.00181	.00095
GRADIENT	.00000	.00000	.00003	-.00537	.08359	.00488	-.01341	.00006	.00029	.00018

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)　　　(UNHX31)　(17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	= .000	STAB	= 5.000
RUDDER	= .000	ELEVON	= .000
IORB	= 6.000	DX	= 20.000
DY	= .000	MACH	= .600

DZ = 45.000　　　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58719	.09486	.21576	.05161	-.24849	.01193	-.00253	.00040
4.000	6.00000	20.00000	.58694	.06728	.38199	.06158	-.27549	.01541	-.00262	.00093
GRADIENT		.00000	-.00012	-.01379	.08311	.00499	-.01350	.00174	-.00004	.00026

DZ = 50.000　　　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	20.00000	.58699	.02027	.21487	.05146	-.25013	.01270	-.00267	.00076
4.000	6.00000	20.00000	.58709	.02391	.38497	.06159	-.27699	.01455	-.00244	.00108
GRADIENT		.00000	.00005	.00182	.08505	.00507	-.01343	.00093	.00011	.00016

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)　　　(UNHX34)　(17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	= .000	STAB	= 5.000
RUDDER	= .000	ELEVON	= .000
IORB	= 6.000	DX	= .000
DY	= .000	MACH	= .600

DZ = 3.500　　　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58780	-.07105	.13385	.04996	-.17653	.01409	-.00299	.00048
4.000	6.00000	.00000	.58730	-.01686	.29325	.05814	-.21160	.01557	-.00275	.00049
GRADIENT		.00000	-.00025	.02710	.07970	.00409	-.01753	.00074	.00012	.00001

DZ = 7.500　　　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58691	-.03982	.14710	.05060	-.19315	.01321	-.00263	.00050
4.000	6.00000	.00000	.58751	-.04258	.30800	.05900	-.22717	.01406	-.00219	.00072
GRADIENT		.00000	.00030	-.00138	.08045	.00420	-.01701	.00042	.00022	.00011

DATE 22 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 0351 (CARRIER DATA)   (UNHX34) (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN.	XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN.	YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN.	ZC	IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58688	-.03324	.15132	.05069	-.20062	.01255	-.00248	.00047
4.000	6.00000	.00000	.58670	-.06070	.31383	.05952	-.23464	.01370	-.00200	.00067
GRADIENT	.00000	.00000	-.00009	-.01373	.08126	.00442	-.01701	.00058	.00024	.00010

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58673	-.05303	.16680	.05121	-.21292	.01246	-.00200	.00007
4.000	6.00000	.00000	.58727	-.07127	.32977	.06031	-.24554	.01381	-.00155	.00064
GRADIENT	.00000	.00000	.00027	-.00912	.08149	.00455	-.01631	.00068	.00022	.00029

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58733	-.03707	.19004	.05154	-.23290	.01363	-.00273	.00048
4.000	6.00000	.00000	.58712	-.08604	.35766	.06121	-.26522	.01414	-.00207	.00037
GRADIENT	.00000	.00000	-.00010	-.02449	.08381	.00483	-.01616	.00026	.00033	-.00006

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58710	-.05594	.20728	.05139	-.24186	.01315	-.00300	.00076
4.000	6.00000	.00000	.58749	.00247	.37494	.06127	-.27316	.01472	-.00267	.00090
GRADIENT	.00000	.00000	.00019	.02921	.08383	.00494	-.01565	.00079	.00017	.00007

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DX	MACH	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.58804	-.01817	.20776	.05114	-.24362	.01317	-.00289	.00081
4.000	6.00000	.00000	.58759	-.04602	.37950	.06109	-.27530	.01491	-.00261	.00130
GRADIENT	.00000	.00000	-.00022	-.01392	.08587	.00497	-.01584	.00087	.00014	.00025

ARC 14-120(CA23B) 747/1 ATI O2SI (CARRIER DATA)   (UNHY10)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .500

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59503	-.01267	.07905	.04389	-.05220	.01377	-.00307	-.00061
4.000	8.00000	.00000	.59130	-.01020	.23900	.04956	-.08870	.01529	-.00286	.00027
GRADIENT	.00000	.00000	-.00187	-.00124	.07998	.00284	-.01825	.00076	.00011	.00044

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59631	-.02880	.09800	.04524	-.08173	.01351	-.00315	.00019
4.000	8.00000	.00000	.59506	-.04969	.25908	.05194	-.12009	.01513	-.00279	.00076
GRADIENT	.00000	.00000	-.00063	-.01044	.08054	.00335	-.01918	.00081	.00018	.00028

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59752	-.03048	.11109	.04616	-.10014	.01356	-.00312	.00082
4.000	8.00000	.00000	.59802	-.07336	.27278	.05352	-.13970	.01522	-.00263	.00117
GRADIENT	.00000	.00000	-.00025	-.02144	.08084	.00368	-.01978	.00083	.00024	.00018

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59633	-.02992	.12928	.04745	-.12943	.01187	-.00282	.00062
4.000	8.00000	.00000	.59726	-.07123	.29097	.05536	-.17018	.01368	-.00240	.00064
GRADIENT	.00000	.00000	-.00046	-.02066	.08084	.00396	-.02038	.00091	.00021	.00001

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59637	-.08807	.17058	.04956	-.18480	.01233	-.00286	.00039
4.000	8.00000	.00000	.59584	-.11959	.33222	.05838	-.22163	.01365	-.00265	.00068
GRADIENT	.00000	.00000	-.00026	-.01576	.08082	.00441	-.01841	.00066	.00011	.00015

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNHY10)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=		MACH	=	.600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	.00000	.59620	-.10677	.19356	.05036	-.20999	.01234	-.00279	.00051
4.000	8.00000	.00000	.59522	-.19602	.35669	.06006	-.24421	.01393	-.00258	.00051
GRADIENT		.00000	-.00049	-.04463	.08156	.00485	-.01711	.00080	.00010	-.00000

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.59459	-.01444	.19706	.05054	-.21528	.01150	-.00272	.00056
4.000	8.00000	.00000	.59441	-.12143	.36496	.06027	-.24984	.01388	-.00264	.00080
GRADIENT		.00000	-.00009	-.05349	.08395	.00486	-.01728	.00119	.00004	.00012

ARC 14-120(CA23B)   747/1 AT1 02S1 (CARRIER DATA)   (UNHY13)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=		MACH	=	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59450	-.03811	.11831	.04765	-.12782	.01048	-.00137	.00037
4.000	6.00000	.00000	.59354	-.06523	.27678	.05508	-.16208	.01162	-.00116	.00080
GRADIENT		.00000	-.00048	-.01356	.07923	.00371	-.01713	.00057	.00011	.00021

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	.00000	.59261	.01798	.13088	.04873	-.14855	.00927	-.00112	.00071
4.000	6.00000	.00000	.59217	-.04063	.29320	.05682	-.18319	.01093	-.00093	.00097
GRADIENT		.00000	-.00022	-.02931	.08116	.00404	-.01732	.00083	.00009	.00013

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (UNHY13) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL	IORB	DY
2.000	.59174	-.01436	.14148	.04929	-.15968	.00905	-.00117	.00057	6.00000	.00000
4.000	.59204	-.07557	.30254	.05743	-.19440	.01102	-.00101	.00069	6.00000	.00000
GRADIENT	.00015	-.03061	.08053	.00407	-.01736	.00098	.00008	.00006	.00000	.00000

DZ = 15.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL	IORB	DY
2.000	.59103	.07807	.15116	.05010	-.17929	.00943	-.00128	.00049	6.00000	.00000
4.000	.59103	-.01760	.31570	.05856	-.21262	.01123	-.00105	.00065	6.00000	.00000
GRADIENT	.00000	-.04784	.08227	.00423	-.01667	.00090	.00012	.00008	.00000	.00000

DZ = 30.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL	IORB	DY
2.000	.59046	.00985	.18320	.05106	-.21208	.01105	-.00201	.00032	6.00000	.00000
4.000	.59064	-.08351	.34302	.06020	-.24369	.01343	-.00203	.00073	6.00000	.00000
GRADIENT	.00009	-.04668	.07991	.00457	-.01581	.00119	.00001	.00020	.00000	.00000

DZ = 45.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL	IORB	DY
2.000	.59085	.04067	.20250	.05140	-.22643	.01146	-.00223	.00013	6.00000	.00000
4.000	.59107	-.08489	.36447	.06099	-.25782	.01354	-.00221	.00070	6.00000	.00000
GRADIENT	.00011	-.06278	.08098	.00480	-.01569	.00104	.00001	.00029	.00000	.00000

DZ = 50.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	DX	CL	CD	CLM	CY	CYN	CBL	IORB	DY
2.000	.59144	-.17655	.20599	.05131	-.23091	.01134	-.00225	.00072	6.00000	.00000
4.000	.59135	-.17839	.37161	.06107	-.26194	.01387	-.00228	.00097	6.00000	.00000
GRADIENT	-.00004	-.00092	.08281	.00488	-.01551	.00127	.00002	.00012	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNHY18)   (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		STAB =	5.000	
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		ELEVON =	5.000	
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		DX =	.000	
SCALE = .0125			MACH =	.600	

			BETA =	.000
			RUDDER =	.000
			IORB =	6.000
			DY =	10.000

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	10.00000	.59076	-.15123	.13000	.04624	-.14709	.00712	-.00777	.00596
4.000	6.00000	10.00000	.59178	-.09423	.28845	.05482	-.17933	.00505	-.00721	.00726
GRADIENT	.00000	.00000	-.00051	.02850	.07922	.00429	-.01612	-.00104	.00028	.00065

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59084	-.21204	.14839	.04782	-.16225	.00790	-.00695	.00545
4.000	6.00000	10.00000	.58980	-.05023	.30930	.05631	-.19619	.00549	-.00534	.00625
GRADIENT	.00000	.00000	-.00052	.08091	.08046	.00424	-.01697	-.00121	.00080	.00040

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59145	-.18453	.15590	.04845	-.17203	.00829	-.00618	.00508
4.000	6.00000	10.00000	.59157	-.08798	.31659	.05739	-.20550	.00496	-.00433	.00527
GRADIENT	.00000	.00000	-.00006	.04828	.08034	.00447	-.01674	-.00166	.00093	.00009

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59100	-.22222	.16899	.04942	-.18696	.00614	-.00447	.00391
4.000	6.00000	10.00000	.59135	-.08119	.33165	.05842	-.22077	.00335	-.00223	.00457
GRADIENT	.00000	.00000	-.00017	.07051	.08133	.00450	-.01690	-.00139	.00112	.00033

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59185	-.18323	.18923	.05052	-.21737	.00280	.00035	.00176
4.000	6.00000	10.00000	.59194	-.12907	.35600	.06059	-.24867	.00042	.00206	.00186
GRADIENT	.00000	.00000	.00005	.02708	.08338	.00504	-.01565	-.00119	.00085	.00005

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

REFERENCE DATA   (UNHY18)   (17 OCT 75)

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	10.00000	.59090	-.07926	.20623	.05115	-.23024	.00438	.00036	.00076
4.000	6.00000	10.00000	.59168	-.06655	.37541	.06119	-.26085	.00431	.00119	.00117
GRADIENT	.00000	.00000	.00039	-.00364	.08456	.00502	-.01531	-.00003	.00042	.00021

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.59017	-.04244	.20971	.05087	-.23167	.00600	-.00023	.00128
4.000	6.00000	10.00000	.59073	-.10545	.37967	.06157	-.26171	.00618	.00050	.00105
GRADIENT	.00000	.00000	.00028	-.03151	.08498	.00535	-.01502	.00009	.00036	-.00011

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

REFERENCE DATA   (UNHY19)   (17 OCT 75)

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59043	-.32979	.08946	.04368	-.10092	.00531	-.00790	.00649
4.000	8.00000	10.00000	.59118	-.20066	.25310	.05171	-.13380	.00212	-.00553	.00819
GRADIENT	.00000	.00000	.00037	.06457	.08182	.00402	.01644	-.00160	.00119	.00085

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59062	-.21857	.11295	.04503	-.11601	.00443	-.00613	.00615
4.000	8.00000	10.00000	.59132	-.12611	.27329	.05303	-.15061	.00107	-.00361	.00728
GRADIENT	.00000	.00000	.00035	.04623	.08017	.00400	-.01730	-.00168	.00126	.00057

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (UNHY19) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = 10.000	MACH = 10.000

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	10.00000	.59041	-.14628	.13093	.04607	-.12517	.00407	-.00508	.00583
4.000	8.00000	10.00000	.59147	-.04928	.28962	.05388	-.16128	.00019	-.00224	.00667
GRADIENT	.00000	.00000	.00053	.04850	.07935	.00391	-.01805	-.00194	.00142	.00042

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59203	-.16675	.13749	.04688	-.14457	.00308	-.00331	.00560
4.000	8.00000	10.00000	.59136	-.09205	.29740	.05537	-.18101	-.00041	-.00058	.00575
GRADIENT	.00000	.00000	-.00033	.03735	.07995	.00425	-.01822	-.00174	.00136	.00008

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59188	-.20224	.17360	.04944	-.18940	-.00141	.00167	.00232
4.000	8.00000	10.00000	.59160	-.15182	.33954	.05936	-.22511	-.00420	.00384	.00223
GRADIENT	.00000	.00000	-.00014	.02521	.08297	.00496	-.01786	-.00139	.00109	-.00004

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59144	-.15893	.19973	.05086	-.21427	.00256	-.00147	.00068
4.000	8.00000	10.00000	.59169	-.22385	.36096	.06034	-.24719	.00320	-.00210	.00144
GRADIENT	.00000	.00000	.00013	-.03246	.08061	.00474	-.01646	.00032	-.00031	.00038

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	10.00000	.59152	-.10655	.20445	.05093	-.21784	.00339	.00079	.00118
4.000	8.00000	10.00000	.59150	-.12670	.36610	.06080	-.25072	.00463	.00137	.00133
GRADIENT	.00000	.00000	-.00001	-.01008	.08082	.00494	-.01644	.00062	.00029	.00007

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (UNHY27)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	STAB = .000	= 5.000
RUDDER =	ELEVON = .000	= .000
IORB =	DX = 8.000	= .000
DY =	MACH = .000	= .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	.00000	.58746	-.15845	.12018	.04751	-.11598	.01157	-.00095	-.00093
4.000	8.00000	.00000	.58723	-.20371	.27851	.05395	-.14669	.01010	-.00077	-.00072
GRADIENT	.00000	.00000	-.00012	-.02263	.07916	.00322	-.01536	-.00073	-.00009	-.00083

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58691	-.10359	.12841	.04813	-.13689	.01020	-.00104	-.00003
4.000	8.00000	.00000	.58658	-.14421	.28726	.05527	-.16892	.01096	-.00089	-.00076
GRADIENT	.00000	.00000	-.00017	-.02031	.07943	.00357	-.01602	.00038	.00008	.00039

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58620	-.06370	.13229	.04845	-.14976	.00885	-.00097	.00082
4.000	8.00000	.00000	.58592	-.07425	.29096	.05613	-.18367	.01157	-.00092	.00082
GRADIENT	.00000	.00000	-.00014	-.00527	.07934	.00384	-.01696	.00136	.00003	-.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58704	-.08906	.14963	.04958	-.17477	.00977	-.00157	.00030
4.000	8.00000	.00000	.58623	-.13400	.30900	.05769	-.20808	.01273	-.00147	.00065
GRADIENT	.00000	.00000	-.00041	-.02247	.07966	.00405	-.01666	.00148	.00005	.00018

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58526	-.10707	.17624	.05028	-.21121	.01129	-.00207	.00079
4.000	8.00000	.00000	.58569	-.12752	.34224	.05971	-.24451	.01335	-.00178	.00076
GRADIENT	.00000	.00000	.00021	-.01023	.08300	.00471	-.01665	.00103	.00014	-.00002

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (UNHY27)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA = .000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER = .000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB = 8.000	DX =	.000
SCALE =	.0125			DY = .000	MACH =	.600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	8.00000	.00000	.58603	-.08663	.20103	.05063	-.22873	.01302	-.00284	.00071
4.000	8.00000	.00000	.58548	-.16527	.36720	.06024	-.26065	.01405	-.00239	.00094
GRADIENT	.00000	.00000	-.00027	-.03932	.08309	.00480	-.01596	.00052	.00022	.00011

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	8.00000	.00000	.58563	-.10954	.19857	.05052	-.23158	.01321	-.00290	.00053
4.000	8.00000	.00000	.58531	-.16345	.37338	.06068	-.26410	.01450	-.00252	.00067
GRADIENT	.00000	.00000	-.00016	-.02695	.08740	.00508	-.01626	.00064	.00019	.00007

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (UNHY32)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA = .000	STAB =	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER = .000	ELEVON =	.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB = 6.000	DX =	.000
SCALE =	.0125			DY = 10.000	MACH =	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58674	-.05386	.13882	.04866	-.18897	.00469	-.00523	.00480
4.000	6.00000	10.00000	.58735	-.08259	.30150	.05759	-.22181	.00307	-.00474	.00621
GRADIENT	.00000	.00000	.00030	-.01187	.08134	.00447	-.01642	-.00081	.00024	.00070

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58723	-.11877	.15775	.04982	-.20139	.00527	-.00412	.00401
4.000	6.00000	10.00000	.58724	-.05162	.31716	.05865	-.23460	.00285	-.00267	.00529
GRADIENT	.00000	.00000	.00001	.03358	.07970	.00442	-.01660	-.00121	.00072	.00064

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)

(UNHY32)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	6.00000	10.00000	.58727	-.15591	.16112	.05000	-.20900	.00520	-.00332	.00398
4.000	6.00000	10.00000	.58739	-.04941	.32064	.05919	-.24018	.00236	-.00174	.00474
GRADIENT	.00000	.00000	.00006	.05325	.07976	.00459	-.01559	-.00142	.00079	.00038

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58721	-.19551	.17405	.05052	-.22111	.00429	-.00185	.00304
4.000	6.00000	10.00000	.58776	-.08464	.33561	.06001	-.25172	.00176	-.00018	.00318
GRADIENT	.00000	.00000	.00027	.05543	.08078	.00475	-.01530	-.00126	.00084	.00007

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58737	-.18137	.19787	.05120	-.23615	.00547	-.00011	.00156
4.000	6.00000	10.00000	.58771	-.13226	.36178	.06108	-.26772	.00332	.00140	.00176
GRADIENT	.00000	.00000	.00017	.02455	.08196	.00494	-.01578	-.00107	.00076	.00010

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58761	-.06798	.21062	.05110	-.24385	.00726	-.00060	.00130
4.000	6.00000	10.00000	.58806	-.11714	.37582	.06151	-.27342	.00735	.00019	.00155
GRADIENT	.00000	.00000	.00022	-.02458	.08260	.00521	-.01478	.00004	.00039	.00012

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	DY	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	6.00000	10.00000	.58823	-.02004	.21650	.05148	-.24615	.00875	-.00092	.00081
4.000	6.00000	10.00000	.58899	-.04956	.37810	.06146	-.27558	.00858	-.00021	.00149
GRADIENT	.00000	.00000	.00038	-.01476	.08080	.00499	-.01471	-.00008	.00035	.00034

ARC 14-120(CA23B)   747/1 AT1 035I (CARRIER DATA)   (UNHY33)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = 8.000
DY = 10.000	MACH = .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DY	IORB	MACH	DX	CL	CD	CLM	CY	CYN	CBI
2.000	10.00000	8.00000	.58990	.18113	.11731	.04519	-.14517	.00403	-.00571	.00531
4.000	10.00000	8.00000	.58844	-.15384	.27005	.05360	-.17998	.00006	-.00350	.00691
GRADIENT	.00000	.00000	-.00073	-.16749	.07637	.00420	-.01741	-.00199	.00111	.00080

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DY	IORB	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	10.00000	8.00000	.58945	-.04610	.12541	.04656	-.15855	.00282	-.00390	.00523
4.000	10.00000	8.00000	.58882	-.13309	.28391	.05490	-.19237	-.00097	-.00162	.00606
GRADIENT	.00000	.00000	-.00031	-.04349	.07925	.00417	-.01691	-.00189	.00114	.00042

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DY	IORB	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	10.00000	8.00000	.58936	-.20967	.13053	.04747	-.16626	.00223	-.00281	.00539
4.000	10.00000	8.00000	.58918	-.11484	.29256	.05573	-.19963	-.00159	-.00036	.00569
GRADIENT	.00000	.00000	-.00009	.04741	.08101	.00413	-.01668	-.00191	.00122	.00015

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DY	IORB	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	10.00000	8.00000	.58882	-.19234	.14811	.04845	-.18463	.00153	-.00115	.00375
4.000	10.00000	8.00000	.58908	-.11584	.31006	.05725	-.21721	-.00280	.00147	.00394
GRADIENT	.00000	.00000	.00013	.03825	.08098	.00440	-.01629	-.00216	.00131	.00010

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DY	IORB	MACH	DX	CL	CD	CLM	CY	CYN	CBL
2.000	10.00000	8.00000	.58932	-.19577	.17931	.04993	-.21605	.00118	.00148	.00181
4.000	10.00000	8.00000	.58895	-.16472	.34583	.05981	-.24795	-.00099	.00339	.00174
GRADIENT	.00000	.00000	-.00018	.01552	.08326	.00494	-.01595	-.00108	.00095	-.00004

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

(UNHY33) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF	=	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000	
LREF	=	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000	
BREF	=	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = .000	
SCALE	=	.0125		DY = 10.000	MACH = .600	

DZ = 45.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	IORB	DY	MACH	DX	CL	CD	CY	CYN	CBL
2.000	8.00000	10.00000	.58684	-.17007	.20183	.05110	.00538	.00041	.00103
4.000	8.00000	10.00000	.58661	-.20028	.36477	.06099	.00554	-.00117	.00160
GRADIENT	.00000	.00000	-.00012	-.01511	.08147	.00495	.00008	.00038	.00028

DZ = 50.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	IORB	DY	MACH	DX	CL	CD	CY	CYN	CBL
2.000	8.00000	10.00000	.58784	-.10670	.20223	.05077	.00789	-.00037	.00114
4.000	8.00000	10.00000	.58733	-.16871	.36827	.06073	.00735	.00046	.00181
GRADIENT	.00000	.00000	-.00025	-.03101	.08302	.00498	-.00027	.00042	.00033

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

(UNHY34) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF	=	5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000	
LREF	=	327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000	
BREF	=	2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = .000	
SCALE	=	.0125		DY = .000	MACH = .600	

DZ = 3.500 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	IORB	DY	MACH	DX	CL	CD	CY	CYN	CBL
2.000	6.00000	.00000	.58779	.16221	.13412	.04993	.01397	-.00298	.00050
4.000	6.00000	.00000	.58730	.00123	.29326	.05814	.01555	-.00275	.00050
GRADIENT	.00000	.00000	-.00024	-.08049	.07957	.00411	.00079	.00011	.00000

DZ = 7.500 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	IORB	DY	MACH	DX	CL	CD	CY	CYN	CBL
2.000	6.00000	.00000	.58691	.05405	.14724	.05060	.01317	-.00263	.00051
4.000	6.00000	.00000	.58751	-.00538	.30803	.05900	.01401	-.00219	.00074
GRADIENT	.00000	.00000	.00030	-.02971	.08039	.00420	.00042	.00022	.00011

ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)   (UNHY34) (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN.	XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN.	YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN.	ZC	IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	IORB	CLM	CY	CBL	CD	CL	DX	MACH	DY
2.000	6.00000	-.20068	.01250	.00047	.05068	.15147	.05454	.58688	.00000
4.000	6.00000	-.23469	.01364	.00069	.05952	.31380	-.03800	.58671	.00000
GRADIENT	.00000	-.01701	.00057	.00011	.00442	.08116	-.04627	-.00009	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	IORB	CLM	CY	CBL	CD	CL	DX	MACH	DY
2.000	6.00000	-.21299	.01241	.00008	.05120	.16694	.05004	.58673	.00000
4.000	6.00000	-.24559	.01375	.00066	.06030	.32974	-.05659	.58727	.00000
GRADIENT	.00000	-.01630	.00067	.00029	.00455	.08140	-.05332	.00027	.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	IORB	CLM	CY	CBL	CD	CL	DX	MACH	DY
2.000	6.00000	-.23293	.01359	.00048	.05154	.19009	.01989	.58732	.00000
4.000	6.00000	-.26524	.01405	.00038	.06120	.35764	-.07747	.58712	.00000
GRADIENT	.00000	-.01616	.00023	-.00005	.00483	.08378	-.04868	-.00010	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	IORB	CLM	CY	CBL	CD	CL	DX	MACH	DY
2.000	6.00000	-.24181	.01313	.00076	.05139	.20728	-.12500	.58712	.00000
4.000	6.00000	-.27316	.01473	.00089	.06127	.37492	-.15488	.58751	.00000
GRADIENT	.00000	-.01568	.00080	.00006	.00494	.08382	-.01494	.00019	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	IORB	CLM	CY	CBL	CD	CL	DX	MACH	DY
2.000	6.00000	-.24353	.01317	.00081	.05114	.20761	-.14372	.58807	.00000
4.000	6.00000	-.27532	.01490	.00131	.06108	.37933	-.16752	.58762	.00000
GRADIENT	.00000	-.01589	.00087	.00025	.00497	.08586	-.01190	-.00022	.00000

CYN column:

DZ = 10.000: -.00247, -.00200, .00024
DZ = 15.000: -.00199, -.00155, .00022
DZ = 30.000: -.00271, -.00204, .00034
DZ = 45.000: -.00299, -.00267, .00016
DZ = 50.000: -.00289, -.00260, .00014

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(UNHM40) (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 3.500   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.82899	-.00100	.06542	.15716	.05123	-.19230	.01594	-.00371	-.00001
4.000	.60000	3.89292	-.06036	.06946	.31648	.05929	-.22674	.01794	-.00352	.00031
GRADIENT	.00000	.03196	-.02968	.00202	.07966	.00403	-.01722	.00100	.00010	.00016

DZ = 7.500   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.88061	-.05171	.06605	.16132	.05130	-.20111	.01524	-.00369	.00033
4.000	.60000	3.90405	-.06693	.03934	.32432	.05969	-.23634	.01776	-.00351	.00044
GRADIENT	.00000	.01172	-.00761	-.01336	.08150	.00420	-.01762	.00126	.00009	.00006

DZ = 10.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.89369	-.03693	.06764	.16643	.05132	-.20833	.01596	-.00380	.00058
4.000	.60000	3.90017	-.09867	.03278	.33244	.06014	-.24386	.01776	-.00348	.00028
GRADIENT	.00000	.00324	-.03087	-.01743	.08301	.00441	-.01776	.00090	.00016	-.00015

DZ = 15.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.86868	-.05021	-.00233	.18609	.05164	-.22213	.01578	-.00363	.00033
4.000	.60000	3.89895	-.03167	-.02863	.34492	.06070	-.25350	.01703	-.00324	.00055
GRADIENT	.00000	.01514	-.00927	-.01315	.07942	.00453	-.01568	.00062	.00019	.00011

DZ = 30.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.91759	.06702	.08608	.20035	.05174	-.23956	.01431	-.00304	.00076
4.000	.60000	3.92559	-.10134	-.00038	.36455	.06143	-.27072	.01468	-.00238	.00074
GRADIENT	.00000	.00400	-.08418	-.04323	.08210	.00485	-.01558	.00019	.00033	-.00001

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNHM40)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN ZC   IORB   = 4.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

DZ = 45.000   RN/L =   1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.90866	-.14608	.05138	.20494	.05158	-.24581	.01424	-.00286	.00002
4.000	.60000	3.89777	-.18392	.00599	.38112	.06182	-.27937	.01573	-.00244	.00056
GRADIENT	.00000	-.00544	-.01892	-.02269	.08809	.00512	-.01678	.00074	.00021	.00027

DZ = 50.000   RN/L =   1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.60000	3.89561	-.25222	.01755	.20733	.05155	-.24769	.01431	-.00282	-.00039
4.000	.60000	3.88339	-.19897	-.00239	.38679	.06194	-.28172	.01634	-.00253	.00051
GRADIENT	.00000	-.00611	.02662	-.00997	.08973	.00519	-.01702	.00102	.00014	.00045

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (UNHM41)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN ZC   IORB   = 4.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .500

DZ = 3.500   RN/L =   1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.00537	-.08435	-.13589	.14508	.04961	-.17970	.01743	-.00343	.00009
4.000	.50000	3.94275	-.06208	-.15274	.31153	.05826	-.21954	.01905	-.00332	.00031
GRADIENT	.00000	-.03131	.01114	.00658	.08322	.00432	-.01992	.00081	.00005	.00011

DZ = 7.500   RN/L =   1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.01282	-.10309	-.14206	.16710	.05050	-.19469	.01678	-.00354	.00009
4.000	.50000	3.93805	-.06481	-.14979	.32231	.05925	-.23050	.01890	-.00329	.00051
GRADIENT	.00000	-.03739	.01914	-.00386	.07761	.00433	-.01791	.00106	.00013	.00021

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (UNHM41)   (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		DX = .000
SCALE = .0125			MACH = .500

BETA =   .000
RUDDER =   .000
IORB =   4.000
DY =   .000

DZ = 10.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.06528	-.15398	-.12361	.16919	.05008	-.19831	.01599	-.00337	.00081
4.000	.50000	3.96079	-.07332	-.13841	.32421	.05927	-.23511	.01825	-.00318	.00092
GRADIENT	.00000	-.05224	.04033	-.00740	.07751	.00459	-.01840	.00113	.00009	.00006

DZ = 15.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.05645	-.15015	-.10725	.18186	.05118	-.21161	.01669	-.00345	-.00004
4.000	.50000	3.95781	-.07892	-.09299	.34126	.06009	-.24739	.01841	-.00310	-.00047
GRADIENT	.00000	-.04932	.03561	.00713	.07970	.00446	-.01789	.00086	.00018	.00025

DZ = 30.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.04280	-.07040	-.11765	.20146	.05102	-.23202	.01613	-.00295	.00024
4.000	.50000	3.95916	-.05100	-.12827	.36262	.06040	-.26480	.01757	-.00266	.00076
GRADIENT	.00000	-.04182	.00970	-.00531	.08058	.00469	-.01639	.00072	.00014	.00026

DZ = 45.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.01317	-.07934	-.09718	.21859	.05084	-.24070	.01501	-.00270	.00071
4.000	.50000	3.94777	-.09778	-.14783	.38063	.06088	-.27346	.01790	-.00256	.00081
GRADIENT	.00000	-.03270	-.00922	-.02532	.08102	.00502	-.01638	.00144	.00007	.00005

DZ = 50.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	3.99721	-.08686	-.08635	.22516	.05098	-.24355	.01476	-.00268	.00072
4.000	.50000	3.94057	-.12072	-.14681	.38783	.06116	-.27638	.01821	-.00256	.00071
GRADIENT	.00000	-.02832	-.01693	-.03023	.08133	.00509	-.01642	.00172	.00006	-.00000

ARC 14-120(CA23B)   747/1 ATI 0251   (CARRIER DATA)   (UNHH42)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY =	MACH = .300

DZ = 3.500   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.96366	-.01826	-.01679	.16892	.05259	-.17962	.02202	-.00330	.00020
4.000	.30000	3.93590	-.00129	-.02787	.32590	.06078	-.22155	.02441	-.00321	.00026
GRADIENT	.03000	-.01388	.00849	-.00554	.07849	.00409	-.02097	.00119	.00005	.00003

DZ = 7.500   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.99447	-.06493	-.04520	.18667	.05300	-.19262	.02164	-.00311	.00069
4.000	.30000	3.98402	-.07572	-.02685	.33465	.06128	-.23160	.02491	-.00333	.00068
GRADIENT	.00000	-.00522	.00530	.00917	.07399	.00414	-.01949	.00164	-.00011	-.00000

DZ = 10.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.95201	-.00117	-.01635	.18180	.05316	-.20002	.02366	-.00343	-.00040
4.000	.30000	3.99449	-.08873	-.04987	.33783	.06115	-.23713	.02349	-.00305	.00065
GRADIENT	.00000	.02124	-.04378	-.01676	.07802	.00400	-.01856	-.00008	.00019	.00053

DZ = 15.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.00542	-.07846	-.02784	.19109	.05330	-.21025	.02234	-.00315	.00044
4.000	.30000	3.96126	-.04327	-.03544	.35308	.06184	-.24895	.02495	-.00308	.00036
GRADIENT	.00000	-.02208	.01759	-.00380	.08100	.00427	-.01935	.00130	.00003	-.00004

DZ = 30.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02939	-.11489	-.03594	.20689	.05340	-.22945	.02256	-.00295	.00032
4.000	.30000	3.97963	-.07696	-.04474	.37151	.06232	-.26699	.02410	-.00264	.00017
GRADIENT	.00000	-.02538	.01896	-.00440	.08231	.00446	-.01877	.00076	.00015	-.00007

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (UNHM42)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = .000	5.000
RUDDER = .000	ELEVON = .000	5.000
IORB = .000	DX = 4.000	.000
DY = .000	MACH = .000	.300

DZ = 45.000

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	CL	DY	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02411	-.09171	.22333	-.12238	.05318	-.23998	.02214	-.00266	.00003
4.000	.30000	3.98272	-.05811	.37339	-.10952	.06082	-.27331	.02256	-.00232	.00049
GRADIENT	.00000	-.02069	.01680	.07503	.00643	.00382	-.01667	.00021	.00017	.00023

DZ = 50.000

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	CL	DY	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02982	-.09355	.23008	-.16157	.05308	-.24300	.02160	-.00250	.00012
4.000	.30000	3.97704	-.04004	.37383	-.13170	.06025	-.27504	.02231	-.00226	.00061
GRADIENT	.00000	-.02606	.02676	.07188	.01493	.00358	-.01602	.00035	.00012	.00024

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (VNH008)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = .109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = .000	-1.000
RUDDER = .000	ELEVON = .000	5.000
IORB = .000	DX = 6.000	.000
DY = .000	MACH = .000	.600

DZ = 3.500

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	.59057	6.00000	.67175	.28470	-.18918	.06975	.01668	.00356	.00123	-.00062
2.000	.58914	6.00000	-.05416	.34150	.10106	.07909	.02385	.00395	.00105	-.00075
4.000	.59028	6.00000	-.07544	.40441	.18983	.09319	.03130	.00381	.00074	-.00082
GRADIENT	-.00007	.00000	-.18680	.02993	.09475	.00586	.00365	.00006	.00012	-.00005

DZ = 7.500

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	CL	DY	CD	CLM	CY	CYN	CBL
.000	.58987	6.00000	-.09481	.28831	-.36797	.07097	.01297	.00303	.00115	-.00066
2.000	.58902	6.00000	-.01120	.34513	-.31915	.07989	.02130	.00328	.00108	-.00081
4.000	.59118	6.00000	-.05854	.41323	-.46731	.09493	.02836	.00345	.00074	-.00081
GRADIENT	.00033	.00000	.00907	.03123	-.02484	.00599	.00385	.00011	.00010	-.00004

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (VNH008)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59202	-.15116	-.53535	.28895	.07151	.01176	.00239	.00100	-.00085
2.000	6.00000	.59301	.03752	-.47390	.34925	.08041	.02080	.00134	.00068	-.00116
4.000	6.00000	.59058	-.02591	-.41868	.41402	.09571	.02724	.00290	.00066	-.00103
GRADIENT	.00000	-.00036	.03131	.02917	.03127	.00605	.00387	.00013	.00009	-.00005

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59255	-.09969	-.47798	.28632	.07238	.01011	.00269	.00102	-.00089
2.000	6.00000	.59219	.01879	-.34585	.34861	.08146	.01906	.00268	.00091	-.00111
4.000	6.00000	.59101	-.06179	-.40137	.42038	.09742	.02584	.00327	.00066	-.00101
GRADIENT	.00000	-.00038	.00948	.01915	.03352	.00626	.00393	.00014	.00009	-.00003

DZ = 30.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59159	-.09209	-.40582	.28526	.07406	.00775	.00226	.00100	-.00095
2.000	6.00000	.59155	.00780	-.33416	.35905	.08412	.01703	.00228	.00086	-.00118
4.000	6.00000	.59167	-.10720	-.40864	.43664	.10132	.02308	.00305	.00049	-.00119
GRADIENT	.00000	-.00002	-.00378	-.00070	.03785	.00681	.00383	.00020	.00013	-.00006

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59230	-.07540	-.47401	.28293	.07525	.00632	.00176	.00092	-.00087
2.000	6.00000	.59324	.00616	-.48236	.35228	.08573	.01523	.00174	.00075	-.00109
4.000	6.00000	.59245	-.16935	-.52115	.45028	.10447	.02121	.00266	.00043	-.00113
GRADIENT	.00000	-.00004	-.02349	-.01178	.04184	.00731	.00372	.00023	.00012	-.00006

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59329	.04229	-.53060	.28567	.07547	.00616	.00154	.00086	-.00091
2.000	6.00000	.59239	-.15767	-.45502	.36357	.08629	.01485	.00182	.00083	-.00091
4.000	6.00000	.59204	-.20162	-.48963	.45185	.10491	.02060	.00258	.00043	-.00091
GRADIENT	.00000	-.00031	-.06098	.01024	.04154	.00736	.00361	.00026	.00011	-.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (VNH009)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58956	-1.54849	-.28840	.39564	.08390	.02127	.00468	.00105	-.00057
2.000	8.00000	.59001	-.75094	-.55882	.46578	.09996	.02781	.00455	.00064	-.00021
4.000	8.00000	.59111	.01750	-.58163	.52598	.12278	.03390	.00519	.00004	-.00057
GRADIENT	.00000	-.00039	.39150	-.07331	.03258	.00972	.00316	.00013	-.00027	-.00000

DZ = 7.500 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.58981	-2.01103	-.46973	.39569	.08553	.01856	.00396	.00087	-.00073
2.000	8.00000	.59113	-.37391	-.49652	.46036	.10016	.02612	.00452	.00067	-.00053
4.000	8.00000	.59117	-.02504	-.53884	.53183	.12455	.03199	.00548	-.00008	-.00064
GRADIENT	.00000	-.00034	.49650	-.01728	.03403	.00976	.00336	.00038	-.00024	-.00002

DZ = 10.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59127	-.07935	-.48612	.38692	.08400	.01898	.00344	.00090	-.00100
2.000	8.00000	.59204	-.05658	-.43816	.45528	.10023	.02491	.00489	.00078	-.00074
4.000	8.00000	.59073	-.05430	-.53020	.53670	.12580	.03068	.00579	.00009	-.00066
GRADIENT	.00000	-.00013	.06626	-.01102	.03745	.01045	.00292	.00059	-.00025	-.00008

DZ = 15.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59244	-.18171	-.39780	.38362	.08468	.01744	.00243	.00068	-.00102
2.000	8.00000	.59188	-.01052	-.46944	.45715	.10084	.02354	.00316	.00040	-.00101
4.000	8.00000	.59315	-.09143	-.53470	.53951	.12745	.02880	.00546	-.00023	-.00078
GRADIENT	.00000	.00018	.02257	-.03422	.03897	.01069	.00284	.00076	-.00023	-.00006

DZ = 30.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59222	-.13688	-.52196	.38623	.08659	.01550	.00249	.00068	-.00124
2.000	8.00000	.59285	-.10129	-.42881	.46621	.10428	.02129	.00378	.00033	-.00111
4.000	8.00000	.59137	-.13779	-.53052	.56267	.13387	.02602	.00577	.00035	-.00063
GRADIENT	.00000	-.00021	-.00023	-.00214	.04411	.01182	.00263	.00082	-.00026	.00015

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (VNH009)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 45.000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59197	-.04829	-.55849	.38116	.08760	.01363	.00262	.00073	-.00115
2.000	8.00000	.59243	-.05417	-.45491	.46793	.10586	.01951	.00333	.00026	-.00097
4.000	8.00000	.59178	-.15068	-.45507	.57321	.13736	.02353	.00502	-.00031	-.00079
GRADIENT	.00000	-.00005	-.02560	.02586	.04801	.01244	.00248	.00060	-.00026	-.00009

DZ = 50.000

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59188	-.00194	-.52363	.38467	.08811	.01369	.00281	.00072	-.00119
2.000	8.00000	.59167	-.01316	-.48819	.47247	.10625	.01912	.00334	.00020	-.00111
4.000	8.00000	.59268	-.09422	-.46192	.57618	.13800	.02278	.00457	-.00047	-.00073
GRADIENT	.00000	.00020	-.02307	.01543	.04788	.01247	.00227	.00044	-.00030	-.00012

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (VNH010)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 3.500

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59528	-.14459	.39993	.40170	.08360	.02338	.00454	.00101	-.00125
2.000	8.00000	.59963	-.03459	.71214	.46638	.10105	.02802	.00401	.00035	-.00132
4.000	8.00000	.59120	-.02236	.67475	.53935	.12530	.03345	.00502	-.00020	-.00095
GRADIENT	.00000	-.00102	.03056	.06870	.03441	.01043	.00252	.00012	-.00030	.00008

ARC 14-120(CA23B) 747/1 ATI 02SI (ORBITER DATA)

(VNH010) (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 7.500

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59524	-.13105	-.08072	.39869	.08465	.02119	.00349	.00089	-.00112
2.000	8.00000	.59624	-.03201	.11391	.46891	.10196	.02634	.00390	.00043	-.00104
4.000	8.00000	.59500	-.05084	.13091	.54590	.12793	.03153	.00515	.00027	-.00074
GRADIENT	.00000	-.00006	.02005	.05291	.03680	.01082	.00259	.00041	-.00029	.00009

DZ = 10.000

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59458	-.14457	-.40700	.39577	.08523	.01947	.00291	.00087	-.00100
2.000	8.00000	.59782	-.02622	-.40185	.47103	.10259	.02514	.00396	.00054	-.00074
4.000	8.00000	.59752	-.07409	-.29551	.55078	.12984	.03018	.00532	.00033	-.00050
GRADIENT	.00000	.00091	.01762	.02787	.03875	.01115	.00268	.00060	-.00030	.00013

DZ = 15.000

RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59642	-.13299	-.36917	.39708	.08581	.01834	.00241	.00073	-.00116
2.000	8.00000	.59651	-.02739	-.37159	.47153	.10340	.02370	.00322	.00034	-.00105
4.000	8.00000	.59752	-.07079	-.40978	.55541	.13157	.02848	.00490	.00038	-.00087
GRADIENT	.00000	.00027	.01555	-.01015	.03958	.01144	.00253	.00062	-.00028	.00007

DZ = 30.000

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59671	-.10394	-.51761	.39814	.08756	.01613	.00178	.00065	-.00126
2.000	8.00000	.59659	-.08286	-.47056	.48257	.10653	.02148	.00310	.00015	-.00105
4.000	8.00000	.59605	-.11834	-.46531	.57413	.13672	.02569	.00399	-.00045	-.00074
GRADIENT	.00000	-.00017	-.00360	.01307	.04400	.01229	.00239	.00055	-.00027	.00013

DZ = 45.000

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59578	-.10371	-.43686	.39755	.08839	.01507	.00167	.00064	-.00122
2.000	8.00000	.59641	-.10516	-.42721	.49091	.10840	.02014	.00350	.00019	-.00078
4.000	8.00000	.59539	-.19518	-.47170	.58585	.13991	.02371	.00382	.00037	-.00087
GRADIENT	.00000	-.00010	-.02287	-.00871	.04708	.01288	.00216	.00054	-.00025	.00009

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (VNH010)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	8.00000	.59362	-.01092	-.44117	.39498	.08871	.01439	.00159	.00068	-.00112
2.000	8.00000	.59473	-.00946	-.48167	.48703	.10815	.01928	.00351	.00020	-.00087
4.000	8.00000	.59456	-.12097	-.53064	.58921	.14076	.02312	.00395	-.00038	-.00075
GRADIENT	.00000	.00023	-.02751	-.02237	.04856	.01301	.00218	.00059	.00026	-.00009

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (VNH011)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59330	-.09487	-.17585	.18458	.06138	.01110	.00271	.00104	-.00070
2.000	4.00000	.59263	-.03266	-.18204	.24155	.06643	.01691	.00307	.00111	-.00061
4.000	4.00000	.59218	-.08058	-.19776	.29814	.07438	.02408	.00274	.00096	-.00068
GRADIENT	.00000	-.00028	.00357	-.00548	.02839	.00325	.00325	.00001	.00002	.00001

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59408	-.21947	-.11285	.19032	.06179	.00828	.00282	.00117	-.00070
2.000	4.00000	.59178	.10724	-.22680	.24803	.06739	.01423	.00286	.00108	-.00081
4.000	4.00000	.59253	-.00587	-.22635	.30591	.07568	.02153	.00351	.00111	-.00085
GRADIENT	.00000	-.00039	.05340	-.02837	.02890	.00347	.00331	.00017	.00002	-.00004

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

(VNH011)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59257	-.14626	-.15718	.19093	.06223	.00680	.00341	.00124	-.00082
2.000	4.00000	.59162	.07409	-.23642	.25074	.06803	.01297	.00305	.00114	-.00081
4.000	4.00000	.59123	.01922	-.24334	.30882	.07631	.02055	.00310	.00103	-.00093
GRADIENT	.00000	-.00033	.04137	-.02154	.02947	.00352	.00344	-.00008	-.00005	-.00003

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59363	-.12417	-.15853	.19260	.06344	.00492	.00367	.00134	-.00091
2.000	4.00000	.59363	-.01486	-.23552	.25400	.06910	.01140	.00340	.00130	-.00082
4.000	4.00000	.59510	.13120	-.20103	.31615	.07779	.01977	.00321	.00111	-.00095
GRADIENT	.00000	-.00037	-.00176	-.01063	.03089	.00359	.00371	-.00012	-.00006	-.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59535	-.13025	-.16001	.19275	.06502	.00226	.00280	.00120	-.00107
2.000	4.00000	.59466	-.13397	-.23880	.26263	.07195	.00921	.00213	.00102	-.00098
4.000	4.00000	.59389	-.12946	-.23698	.33510	.08167	.01803	.00284	.00100	-.00113
GRADIENT	.00000	-.00036	.00020	-.01924	.03559	.00416	.00394	.00001	-.00005	-.00002

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59526	-.07470	-.23397	.19290	.06644	.00068	.00218	.00108	-.00101
2.000	4.00000	.59525	-.21245	-.29003	.27317	.07774	.00475	.00207	.00101	-.00101
4.000	4.00000	.59371	-.14676	-.24929	.35252	.08441	.01670	.00259	.00095	-.00105
GRADIENT	.00000	-.00014	-.01801	.00117	.03990	.00449	.00401	.00010	.00003	-.00001

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	4.00000	.59237	-.06283	-.25594	.19283	.06700	.00016	.00203	.00106	-.00096
2.000	4.00000	.59276	-.24187	-.29421	.27704	.07396	.00772	.00221	.00106	-.00088
4.000	4.00000	.59289	-.17550	-.20810	.35823	.08522	.01632	.00257	.00096	-.00099
GRADIENT	.00000	.00013	-.02817	.01196	.04135	.00456	.00404	.00014	.00002	-.00001

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (VNH013)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

DZ = 3.500 RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59330	-.02265	-.52888	.29838	.07128	.01711	.00186	.00101	-.00044
2.000	6.00000	.59492	-.03416	-.45886	.35121	.08002	.02524	.00293	.00106	-.00044
4.000	6.00000	.59380	-.06456	-.53850	.41304	.09443	.03232	.00268	.00081	-.00046
GRADIENT		.00013	-.01048	-.00240	.02866	.00579	.00380	.00020	-.00005	-.00001

DZ = 7.500 RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59143	-.14594	-.42355	.29525	.07151	.01390	.00206	.00111	-.00046
2.000	6.00000	.59273	.03204	-.49988	.35221	.08048	.02250	.00237	.00104	-.00059
4.000	6.00000	.59233	-.03940	-.51321	.41977	.09567	.02940	.00234	.00078	-.00057
GRADIENT		.00022	.02663	-.02242	.03113	.00604	.00388	.00007	-.00008	-.00003

DZ = 10.000 RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59144	-.18620	-.44808	.29537	.07176	.01306	.00243	.00122	-.00061
2.000	6.00000	.59173	-.00336	-.58353	.35337	.08063	.02188	.00184	.00094	-.00069
4.000	6.00000	.59203	-.07451	-.59846	.42175	.09609	.02863	.00246	.00073	-.00072
GRADIENT		.00015	.02792	-.03759	.03160	.00608	.00389	.00001	-.00012	-.00003

DZ = 15.000 RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.0000C	.59111	-.11818	-.47005	.29399	.07232	.01167	.00199	.00106	-.00067
2.000	6.00000	.59100	.09041	-.49785	.35515	.08195	.02019	.00184	.00092	-.00071
4.000	6.00000	.59097	-.01302	-.52853	.42557	.09760	.02694	.00224	.00064	-.00085
GRADIENT		-.00004	.02629	-.01462	.03290	.00632	.00382	.00006	-.00010	-.00004

DZ = 30.000 RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	IORB	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
.000	6.00000	.59008	-.13369	-.45772	.29519	.07378	.00957	.00211	.00101	-.00101
2.000	6.00000	.59033	.02128	-.53834	.36502	.08407	.01849	.00182	.00085	-.00096
4.000	6.00000	.59054	-.08049	-.50667	.44301	.10127	.02476	.00299	.00065	-.00097
GRADIENT		.00012	.01330	-.01224	.03695	.00687	.00380	.00022	-.00009	-.00001

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)

(VNHM41)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.500

DZ = 45.000

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	4.01317	-.07934	-.09718	.28000	.07345	.00782	.00263	.00093	-.00105
4.000	.50000	3.9447-7	-.09778	-.14783	.35279	.08373	.01574	.00305	.00093	-.00092
GRADIENT	.00000	-.03270	-.00922	-.02532	.03840	.00514	.00396	.00021	-.00000	.00006

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.50000	3.99721	-.08686	-.08635	.28209	.07378	.00757	.00254	.00090	-.00114
4.000	.50000	3.94057	-.12072	-.14601	.35752	.08446	.01537	.00300	.00090	-.00091
GRADIENT	.00000	-.02832	-.01693	-.03023	.03772	.00534	.00390	.00023	.00000	.00011

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)

(VNHM42)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.300

DZ = 3.500

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.96366	-.01826	-.01679	.24783	.06851	.01568	.00326	.00073	-.00040
4.000	.30000	3.93590	-.00129	-.02787	.30620	.07713	.02255	.00315	.00070	-.00047
GRADIENT	.00000	-.01388	.00849	-.00554	.02919	.00431	.00343	-.00006	-.00001	-.00003

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.99447	-.06493	-.04520	.25897	.06979	.01347	.00189	.00050	-.00048
4.000	.30000	3.98402	-.07572	-.02685	.31786	.07887	.01997	.00266	.00071	-.00044
GRADIENT	.00000	-.00522	-.00539	.00917	.02944	.00454	.00325	.00038	.00011	.00003

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

(VNHM42)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6900 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.300

DZ = 10.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.95201	-.00117	-.01635	.25472	.07000	.01200	.00063	.00035	-.00084
4.000	.30000	3.99449	-.08873	-.04987	.32044	.07979	.01912	.00144	.00043	-.00047
GRADIENT	.00000	.02124	-.04378	-.01676	.03286	.00489	.00356	.00040	.00004	.00019

DZ = 15.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.00542	-.07846	-.02784	.26416	.07178	.01076	.00246	.00059	-.00051
4.000	.30000	3.96126	-.04327	-.03544	.33075	.08097	.01819	.00252	.00056	-.00083
GRADIENT	.00000	-.02208	.01759	-.00380	.03330	.00460	.00371	.00003	-.00001	-.00016

DZ = 30.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02939	-.11489	-.03594	.27456	.07425	.00924	.00250	.00053	-.00097
4.000	.30000	3.97863	-.07696	-.04474	.34867	.08424	.01711	.00195	.00044	-.00083
GRADIENT	.00000	-.02538	.01896	-.00440	.03705	.00500	.00394	-.00027	-.00005	.00007

DZ = 45.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02411	-.09171	-.12238	.28098	.07544	.00835	.00198	.00053	-.00073
4.000	.30000	3.98272	-.05811	-.10952	.35594	.08543	.01558	.00119	.00041	-.00051
GRADIENT	.00000	-.02069	.01680	.00643	.03748	.00500	.00362	-.00040	-.00006	.00011

DZ = 50.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02982	-.09355	-.16157	.28410	.07587	.00809	.00209	.00057	-.00050
4.000	.30000	3.97770	-.04004	-.13170	.35813	.08564	.01499	.00117	.00045	-.00042
GRADIENT	.00000	-.02605	.02675	.01493	.03702	.00488	.00345	-.00046	-.00006	.00004

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA) (ZNH008) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	STAB =	-1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	ELEVON =	5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	DX =	.000
SCALE =	.0125			DY =	MACH =	.600

RUN NO. 0/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.59057	.00000	.67175	.18918	.28470	.06975	.01668	.00356	.00123	-.00062
3.500	8.000	.58914	2.00000	-.05416	.10106	.34150	.07509	.02385	.00395	.00105	-.00075
3.500	10.000	.59028	4.00000	-.07544	.18983	.40441	.09319	.03130	.00381	.00074	-.00082
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58987	.00000	-.09481	-.36797	.28831	.07097	.01297	.00303	.00115	-.00066
7.500	8.000	.58302	2.00000	-.01120	-.31915	.34513	.07989	.02130	.00328	.00108	-.00081
7.500	10.000	.59118	4.00000	-.05854	-.46731	.41323	.09493	.02836	.00345	.00074	-.00081
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.59202	.00000	-.15116	-.53535	.28895	.07151	.01176	.00239	.00100	-.00085
10.000	8.000	.59301	2.00000	.03752	-.47390	.34925	.08041	.02080	.00134	.00068	-.00116
10.000	10.000	.59058	4.00000	-.02591	-.41868	.41402	.09571	.02724	.00290	.00066	-.00103
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.59255	.00000	-.09969	-.47798	.28632	.07238	.01011	.00269	.00102	-.00089
15.000	8.000	.59219	2.00000	.01879	-.34585	.34861	.08146	.01906	.00268	.00091	-.00111
15.000	10.000	.59101	4.00000	-.06179	-.40137	.42038	.09742	.02584	.00327	.00066	-.00101
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.59159	.00000	-.09209	-.40582	.28526	.07406	.00775	.00226	.00100	-.00095
30.000	8.000	.59155	2.00000	.00780	-.33416	.35905	.08412	.01703	.00228	.00086	-.00118
30.000	10.000	.59167	4.00000	-.10720	-.40864	.43664	.10132	.02308	.00305	.00049	-.00119
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH008)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.59230	.00000	-.07540	-.47401	.28293	.07525	.00632	.00176	.00092	-.00087
45.000	8.000	.59324	2.00000	.06616	-.48236	.36228	.08573	.01523	.00174	.00075	-.00109
45.000	10.000	.59245	4.00000	-.16935	-.52115	.45028	.10447	.02121	.00266	.00043	-.00113
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.59329	.00000	.04229	-.53060	.28567	.07547	.00616	.00154	.00086	-.00091
50.000	8.000	.59239	2.00000	-.1575?	-.45502	.36357	.08629	.01485	.00182	.00083	-.00091
50.000	10.000	.59204	4.00000	-.20162	-.48963	.45185	.10491	.02060	.00258	.00043	-.00091
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH009)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 8.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.59956	.00000	-1.54049	-.28840	.39564	.08390	.02127	.00468	.00105	-.00057
3.500	10.000	.59001	2.00000	-.75094	-.55882	.45578	.09996	.02781	.00455	.00064	-.00021
3.500	12.000	.59111	4.00000	.01750	-.58163	.52598	.12278	.03390	.00519	.00004	-.00057
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.5899?	.00000	-2.01103	-.46973	.39503	.08553	.01855	.00396	.00087	-.00073
7.500	10.000	.59113	2.00000	-.3739?	-.49652	.46035	.10016	.02612	.00452	.00067	-.00053
7.500	12.000	.59117	4.00000	-.02504	-.53884	.53183	.12455	.03199	.00548	-.00008	-.00064
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA) (ZNH009) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
1ORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59127	.00000	-.07935	-.48612	.39692	.08490	.01898	.00344	.00090	-.00100
10.000	10.000	.59204	2.00000	-.05658	-.43816	.45528	.10023	.02491	.00489	.00078	-.00074
10.000	12.000	.59073	4.00000	-.05430	-.53020	.53670	.12590	.03068	.00579	-.00009	-.00066
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59244	.00000	-.18171	-.39780	.38362	.08468	.01744	.00243	.00068	-.00102
15.000	10.000	.59188	2.00000	-.01052	-.46944	.45715	.10084	.02354	.00316	.00040	-.00101
15.000	12.000	.59315	4.00000	-.09143	-.53470	.53951	.12745	.02880	.00546	.00023	-.00078
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59222	.00000	-.13588	-.52196	.38623	.08659	.01550	.00249	.00068	-.00124
30.000	10.000	.59285	2.00000	-.10129	-.42881	.46621	.10428	.02129	.00378	.00035	-.00111
30.000	12.000	.59137	4.00000	-.13779	-.53052	.56267	.13387	.02602	.00577	-.00035	-.00063
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59197	.00000	-.04829	-.55849	.38116	.08760	.01363	.00262	.00073	-.00115
45.000	10.000	.59243	2.00000	-.05417	-.45491	.45793	.10566	.01951	.00333	.00026	-.00097
45.000	12.000	.59278	4.00000	-.15068	-.45507	.57321	.13736	.02353	.00502	.00031	-.00079
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59188	.00000	-.00194	-.52363	.38467	.08011	.01369	.00281	.00072	-.00119
50.000	10.000	.59167	2.00000	-.01316	-.48819	.47247	.10625	.01912	.00334	.00020	-.00111
50.000	12.000	.59268	4.00000	-.09422	-.46192	.57610	.13800	.02278	.00457	.00047	-.00073
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNH010)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.59528	.00000	-.14459	.39993	.40170	.08360	.02338	.00454	.00101	-.00125
3.500	10.000	.59463	2.00000	-.03459	.71214	.45638	.10105	.02802	.00401	.00035	-.00132
3.500	12.000	.59120	4.00000	-.02236	.67475	.53935	.12530	.03345	.00502	-.00020	-.00095
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59524	.00000	-.13105	-.08072	.39869	.08465	.02119	.00349	.00089	-.00112
7.500	10.000	.59624	2.00000	-.03201	.11391	.46891	.10196	.02634	.00390	.00043	-.00104
7.500	12.000	.59500	4.00000	-.05084	.13091	.54590	.12793	.03153	.00515	-.00027	-.00074
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59458	.00000	-.14457	-.40700	.39577	.08523	.01947	.00291	.00087	-.00100
10.000	10.000	.59782	2.00000	-.02622	-.40185	.47103	.10259	.02514	.00396	.00054	-.00074
10.000	12.000	.59822	4.00000	-.07409	.29551	.55078	.12984	.03018	.00532	-.00033	-.00050
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59542	.00000	-.13299	-.36917	.39708	.08581	.01834	.00241	.00073	-.00116
15.000	10.000	.59651	2.00000	-.02739	-.37159	.47153	.10340	.02370	.00322	.00034	-.00105
15.000	12.000	.59752	4.00000	-.07079	-.40978	.55541	.13157	.02848	.00490	-.00038	-.00087
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59671	.00000	-.10394	-.51761	.39814	.08756	.01613	.00178	.00065	-.00126
30.000	10.000	.59659	2.00000	-.08766	-.47056	.48257	.10653	.02148	.00310	.00015	-.00105
30.000	12.000	.59605	4.00000	-.11834	-.46531	.57413	.13672	.02569	.00399	-.00045	-.00074
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH010)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125

			BETA	=		STAB	=	5.000
			RUDDER	=		ELEVON	=	5.000
			IORB	=		DX	=	.000
			DY	=		MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59578	-.10371	-.43686	.37755	.08839	.01507	.00167	.00064	-.00122
45.000	10.000	.59641	-.10516	-.42721	.43091	.10540	.02014	.00350	.00019	-.00078
45.000	12.000	.59539	-.19518	-.47170	.58585	.13991	.02371	.00382	-.00037	-.00087
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59362	-.01092	-.44117	.39498	.08871	.01439	.00159	.00068	-.00112
50.000	10.000	.59473	-.00946	-.48167	.48703	.10815	.01928	.00351	.00020	-.00087
50.000	12.000	.59456	-.12097	-.53064	.58921	.14076	.02312	.00395	-.00038	-.00075
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH011)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125

			BETA	=		STAB	=	-1.000
			RUDDER	=		ELEVON	=	5.000
			IORB	=		DX	=	.000
			DY	=		MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.59330	-.09497	-.17585	.18458	.06138	.01110	.00271	.00104	-.00070
3.500	6.000	.59263	-.03266	-.18204	.24155	.06643	.01691	.00307	.00111	-.00061
3.500	8.000	.59218	-.08058	-.19776	.29814	.07438	.02408	.00274	.00096	-.00068
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.59408	-.21947	-.11285	.19032	.06179	.00828	.00282	.00117	-.00070
7.500	6.000	.59178	.10724	-.22680	.24803	.06739	.01423	.00286	.00108	-.00081
7.500	8.000	.59253	-.06587	-.22635	.30591	.07568	.02153	.00351	.00111	-.00095
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNH011) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 4.000	DX = .000
DY =	MACH = .600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.59257	.00000	-.14626	-.15718	.19093	.06223	.00680	.00341	.00124	-.00082
10.000	6.000	.59162	2.00000	.07409	-.23642	.25074	.06803	.01297	.00305	.00114	-.00081
10.000	8.000	.59123	4.00000	.01922	-.24334	.30882	.07631	.02055	.00310	.00103	-.00093
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.59363	.00000	-.12417	-.15353	.19260	.06344	.00492	.00367	.00134	-.00091
15.000	6.000	.59363	2.00000	-.01486	-.23552	.25400	.06910	.01140	.00340	.00130	-.00082
15.000	8.000	.59510	4.00000	-.13120	-.20103	.31615	.07779	.01977	.00321	.00111	-.00093
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.59535	.00000	-.13025	-.16001	.19275	.06502	.00226	.00280	.00120	-.00107
30.000	6.000	.59468	2.00000	-.13397	-.23880	.26263	.07195	.00921	.00213	.00102	-.00098
30.000	8.000	.59389	4.00000	-.12946	-.23699	.33510	.08167	.01803	.00284	.00100	-.00113
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.59326	.00000	-.07470	-.23397	.19290	.06644	.00068	.00218	.00108	-.00101
45.000	6.000	.59326	2.00000	-.21255	-.28003	.27317	.07354	.00805	.00207	.00101	-.00092
45.000	8.000	.59271	4.00000	-.14676	-.22929	.35252	.08441	.01670	.00259	.00095	-.00105
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.59237	.00000	-.06703	-.25594	.19283	.06700	.00016	.00203	.00106	-.00096
50.000	6.000	.59421	2.00000	-.24187	-.29421	.27704	.07396	.00772	.00221	.00106	-.00088
50.000	8.000	.59289	4.00000	-.17550	-.20810	.35823	.08522	.01632	.00257	.00096	-.00099
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNH013)   (17 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA	
SREF =	2690.0000	SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = 5.000
LREF =	474.8100	IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = 5.000
BREF =	936.6800	IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX = .000
SCALE =	.0125				DY =		MACH = .600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.59330	.00000	-.02265	-.52888	.29838	.07128	.01711	.00186	.00101	-.00044
3.500	8.000	.59492	2.00000	-.03416	-.45886	.35121	.08002	.02524	.00293	.00106	-.00044
3.500	10.000	.59390	4.00000	-.06456	-.53850	.41304	.09443	.03232	.00268	.00081	-.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.59143	.00000	-.14594	-.42355	.29525	.07151	.01390	.00206	.00111	-.00046
7.500	8.000	.59273	2.00000	-.03204	-.49988	.35221	.08048	.02250	.00237	.00104	-.00059
7.500	10.000	.59233	4.00000	-.03940	-.51321	.41977	.09567	.02940	.00234	.00078	-.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.59144	.00000	-.18620	-.44808	.29537	.07176	.01306	.00243	.00122	-.00061
10.000	8.000	.59173	2.00000	-.00338	-.58353	.35337	.08063	.02188	.00184	.00094	-.00069
10.000	10.000	.59203	4.00000	-.07451	-.59846	.42175	.09609	.02863	.00246	.00073	-.00072
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.59111	.00000	-.11818	-.47005	.29399	.07232	.01167	.00199	.00106	-.00067
15.000	8.000	.59100	2.00000	.09841	-.49785	.35515	.08195	.02019	.00184	.00092	-.00071
15.000	10.000	.59097	4.00000	-.01302	-.52853	.42557	.09760	.02694	.00224	.00064	-.00085
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.59008	.00000	-.13269	-.45772	.29519	.07378	.00957	.00211	.00101	-.00101
30.000	8.000	.59033	2.00000	.02128	-.53834	.36502	.08407	.01849	.00182	.00085	-.00096
30.000	10.000	.59054	4.00000	-.08049	-.50667	.44301	.10127	.02476	.00299	.00065	-.00097
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH013)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO		RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO		1ORB	=	6.000	DX	=	.000
SCALE	=	.0125						DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.59017	.00000	-.01960	-.53810	.29372	.07465	.00866	.00127	.00098	-.00068
45.000	8.000	.59079	2.00000	-.05543	-.53705	.36866	.08519	.01724	.00143	.00086	-.00087
45.000	10.000	.59103	4.00000	-.08046	-.55385	.45269	.10364	.02296	.00209	.00051	-.00079
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.59036	.00000	.02183	-.48797	.29206	.07532	.00789	.00131	.00098	-.00064
50.000	8.000	.59152	2.00000	-.18551	-.52602	.36978	.08628	.01642	.00135	.00090	-.00066
50.000	10.000	.59141	4.00000	-.18359	-.56621	.45785	.10490	.02222	.00215	.00054	-.00056
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH020)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO		RUDDER	=	.000	ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO		1ORB	=	4.000	DX	=	.000
SCALE	=	.0125						DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58802	.00000	-.05223	-.26345	.11198	.05485	.04559	.00274	.00074	-.00107
3.500	6.000	.58959	2.00000	-.02453	-.45158	.16309	.05660	.05006	.00314	.00079	-.00122
3.500	8.000	.58835	4.00000	-.08535	-.29278	.22196	.06184	.05735	.00355	.00083	-.00104
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58707	.00000	-.10972	-.44775	.12113	.05545	.04303	.00262	.00076	-.00120
7.500	6.000	.58741	2.00000	-.06373	-.37930	.16475	.05733	.04732	.00328	.00084	-.00121
7.500	8.000	.58730	4.00000	-.06510	-.36577	.22543	.06251	.05533	.00390	.00084	-.00119
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH020) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF	=	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON =	.000
BREF	=	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	4.000	DX =	.000
SCALE	=	.0125			DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58804	.00000	-.10786	-.36690	.12236	.05595	.04178	.00358	.00091	-.00142
10.000	6.000	.58923	2.00000	-.06237	-.29638	.17199	.05793	.04670	.00389	.00090	-.00146
10.000	8.000	.59037	4.00000	-.07726	-.38358	.22755	.06313	.05431	.00402	.00095	-.00117
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58762	.00000	-.06338	-.37890	.12325	.05637	.03989	.00302	.00078	-.00155
15.000	6.000	.58706	2.00000	-.07556	-.40109	.17523	.05896	.04495	.00319	.00083	-.00140
15.000	8.000	.58649	4.00000	-.05904	-.39269	.23587	.06470	.05349	.00323	.00076	-.00121
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58719	.00000	-.10103	-.37297	.12132	.05796	.03698	.00264	.00073	-.00163
30.000	6.000	.58734	2.00000	-.11109	-.40675	.18397	.06126	.04283	.00221	.00064	-.00147
30.000	8.000	.58789	4.00000	-.11348	-.37248	.25225	.06779	.05200	.00278	.00062	-.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.56474	.00000	.03140	-.36765	.11969	.05852	.03550	.00219	.00070	-.00147
45.000	6.000	.58677	2.00000	-.14937	-.36932	.18963	.06236	.04137	.00228	.00066	-.00155
45.000	8.000	.58632	4.00000	-.11437	-.44889	.26533	.06957	.05095	.00264	.00057	-.00147
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58364	.00000	.09589	-.37556	.11932	.05859	.03505	.00190	.00067	-.00139
50.000	6.000	.58607	2.00000	-.16317	-.37271	.19085	.06265	.04080	.00229	.00068	-.00154
50.000	8.000	.58546	4.00000	-.10503	-.48330	.26983	.07025	.05064	.00253	.00054	-.00144
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA) (ZNH021) (17 OCT 75)

REFERENCE DATA PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
3.500	4.000	.59024	.00000	.02471	-.20532	.10797	.05294	.04687	.00323	-.00108	.00082
3.500	6.000	.58971	.00000	.07777	-.17981	.16375	.05511	.05152	.00372	-.00112	.00085
3.500	8.000	.58927	2.00000	-.02834	-.15665	.22366	.06061	.05916	.00352	-.00107	.00075
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
7.500	4.000	.58967	.00000	-.16238	-.18138	.10648	.05336	.04400	.00376	-.00131	.00093
7.500	6.000	.59009	.00000	.13195	-.10900	.16613	.05582	.04896	.00340	-.00115	.00085
7.500	8.000	.59008	2.00000	.02309	-.14147	.22646	.06138	.05694	.00331	-.00118	.00072
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
10.000	4.000	.59002	.00000	-.11657	-.13444	.10590	.05374	.04231	.00327	-.00134	.00082
10.000	6.000	.58974	.00000	.06359	-.22685	.16900	.05628	.04784	.00355	-.00122	.00093
10.000	8.000	.59026	2.00000	-.02995	-.20624	.22971	.06202	.05608	.00307	-.00122	.00067
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
15.000	4.000	.59003	.00000	-.15742	-.19366	.11262	.05453	.04093	.00320	-.00167	.00076
15.000	6.000	.59012	.00000	.66634	-.22289	.17405	.05748	.04643	.00280	-.00138	.00072
15.000	8.000	.59019	2.00000	-.05118	-.13890	.23664	.06357	.05494	.00320	-.00122	.00070
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
30.000	4.000	.58959	.00000	.06336	-.20571	.11378	.05632	.03787	.00239	-.00144	.00071
30.000	6.000	.58978	.00000	.09323	-.24167	.18482	.05996	.04401	.00252	-.00160	.00068
30.000	8.000	.58903	2.00000	-.04123	-.24788	.25452	.06703	.05315	.00283	-.00138	.00064
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2SI (ORBITER DATA)   (ZNH021)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = .000   -1.000
RUDDER = .000   ELEVON = .000   .000
IORB   = 4.000   DX   = .000   .000
DY   = .000   MACH   = .000   .600

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58957	.00000	-.02796	-.28104	.11495	.05757	.03640	.00142	.00061	-.00131
45.000	6.000	.58896	.00000	-.10961	-.27460	.19654	.06166	.04288	.00181	.00058	-.00157
45.000	8.000	.58944	.00000	-.16285	-.17509	.26895	.06917	.05218	.00189	.00062	-.00123
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58947	.00000	-.03023	-.32597	.11588	.05797	.03604	.00110	.00058	-.00131
50.000	6.000	.58885	.00000	-.18927	-.26854	.20065	.06219	.04259	.00148	.00051	-.00155
50.000	8.000	.58978	.00000	-.21103	-.11324	.27355	.06981	.05191	.00155	.00062	-.00115
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000

ARC 14-120(CA23B) 747/1 ATI O2SI (ORBITER DATA)   (ZNH022)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = .000   5.000
RUDDER = .000   ELEVON = .000   .000
IORB   = 8.000   DX   = .000   .000
DY   = .000   MACH   = .000   .600

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58837	.00000	-.16255	.01217	.31589	.06744	.06048	.00245	.00056	-.00124
3.500	10.000	.58607	.00000	-.01165	-.22915	.38219	.08089	.06746	.00330	.00056	-.00106
3.500	12.000	.58431	.00000	-.15636	-.26636	.45310	.10211	.07406	.00340	.00014	-.00058
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58758	.00000	-.18018	-.11484	.31793	.06915	.05834	.00284	.00060	-.00133
7.500	10.000	.58659	.00000	-.06165	-.19164	.38278	.08217	.06582	.00340	.00048	-.00131
7.500	12.000	.58630	.00000	-.12718	-.21784	.45956	.10429	.07196	.00411	.00020	-.00089
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)　　　　(ZNH022) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 8.000	DX = .000
SCALE = .0125				DY = .000	MACH = .600

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58709	.00000	-.19173	-.20231	.32011	.07039	.05681	.00334	.00067	-.00141
10.000	10.000	.58728	2.00000	-.07957	-.14578	.33290	.08312	.06449	.00367	.00045	-.00155
10.000	12.000	.58773	4.00000	-.13358	-.16640	.45425	.10593	.07035	.00454	-.00030	-.00115
GRADIENT		.00000	.00000	-.13358	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58694	.00000	-.18748	-.23899	.31563	.07053	.05523	.00217	.00046	-.00146
15.000	10.000	.58647	2.00000	-.13443	-.18170	.38564	.08369	.06382	.00273	.00029	-.00137
15.000	12.000	.58681	4.00000	-.07010	-.20146	.46909	.10736	.06922	.00536	-.00011	-.00116
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58879	.00000	-.10260	-.12441	.31691	.07199	.05339	.00255	.00051	-.00153
30.000	10.000	.58798	2.00000	-.07780	-.12012	.39233	.08559	.06151	.00279	.00024	-.00180
30.000	12.000	.58967	4.00000	-.15887	-.18301	.48784	.11276	.06646	.00434	-.00028	-.00130
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58810	.00000	-.03873	-.20232	.31379	.07261	.05163	.00206	.00048	-.00152
45.000	10.000	.58849	2.00000	-.04281	-.22602	.39693	.08689	.05985	.00213	.00019	-.00149
45.000	12.000	.58917	4.00000	-.15334	-.17723	.53009	.11560	.06419	.00394	-.00027	-.00119
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58785	.00000	-.00133	-.19668	.31246	.07277	.05115	.00229	.00059	-.00144
50.000	10.000	.59925	2.00000	.00201	-.25501	.39580	.08720	.05927	.00215	.00021	-.00145
50.000	12.000	.59942	4.00000	-.11080	-.16164	.49942	.11598	.06330	.00420	-.00018	-.00124
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNH023)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = .000   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER = .000   ELEVON = .000   .000
BREF = 936.5800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 6.000   DX   = .000   .000
SCALE = .0125   DY   = .000   MACH   = .000   .600

DZ 3.500, 3.500, 3.500   RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.000	.58722	.00000	-.10448	-.22757	.22257	.05952	.05053	.00315	.00076	-.00091
8.000	.58696	2.00000	-.14791	-.26402	.27397	.06581	.05978	.00319	.00068	-.00101
10.000	.58675	4.00000	-.09563	-.31779	.33357	.07670	.06929	.00360	.00054	-.00125
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 7.500, 7.500, 7.500   RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.000	.58592	.00000	-.12617	-.26758	.22148	.05974	.04807	.00303	.00075	-.00115
8.000	.58772	2.00000	.02447	-.21541	.27644	.06605	.05775	.00306	.00066	-.00111
10.000	.58744	4.00000	-.05141	-.25423	.33642	.07755	.06670	.00301	.00038	-.00138
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 10.000, 10.000, 10.000   RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.000	.58720	.00000	-.08080	-.32093	.21968	.05996	.04695	.00279	.00073	-.00115
8.000	.58738	2.00000	.03240	-.29826	.27487	.06637	.05666	.00335	.00066	-.00130
10.000	.58743	4.00000	-.01548	-.31715	.34068	.07819	.06614	.00324	.00041	-.00144
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 15.000, 15.000, 15.000   RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.000	.58887	.00000	-.08769	-.27717	.21864	.06052	.04558	.00285	.00080	-.00112
8.000	.58732	2.00000	.04181	-.32458	.28273	.06735	.05661	.00271	.00051	-.00139
10.000	.58698	4.00000	-.05553	-.31952	.34368	.07934	.06487	.00322	.00039	-.00144
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 30.000, 30.000, 30.000   RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
6.000	.58737	.00000	-.13357	-.26229	.21781	.06172	.04322	.00241	.00071	-.00132
8.000	.58778	2.00000	-.01156	-.20880	.28312	.06920	.05344	.00267	.00062	-.00139
10.000	.58784	4.00000	-.12743	-.26464	.36246	.08321	.06277	.00296	.00029	-.00153
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 433

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH023)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.58641	.00000	.02545	-.31603	.21689	.06271	.04193	.00182	.00059	-.00141
45.000	8.000	.58821	2.00000	-.10675	-.27867	.29012	.07069	.05219	.00191	.00045	-.00130
45.000	10.000	.58801	4.00000	-.15959	-.27362	.37463	.08556	.06099	.00236	.00017	-.00135
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58729	.00000	.06326	-.39692	.21499	.06313	.04166	.00191	.00062	-.00126
50.000	8.000	.58809	2.00000	-.12785	-.35762	.29169	.07114	.05209	.00219	.00052	-.00137
50.000	10.000	.58823	4.00000	-.17777	-.33684	.37701	.08636	.06053	.00214	.00022	-.00125
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH024)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.58556	.00000	-.15710	-.05439	.21814	.05847	.05061	.00322	.00075	-.00121
3.500	8.000	.58594	2.00000	-.05661	-.04203	.27322	.06437	.06040	.00380	.00071	-.00112
3.500	10.000	.58738	4.00000	-.07286	-.01917	.33132	.07510	.06962	.00327	.00042	-.00137
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58752	.00000	-.15271	-.13760	.21899	.05878	.04859	.00330	.00078	-.00123
7.500	8.000	.58737	2.00000	-.02438	-.07570	.27358	.06494	.05790	.00383	.00078	-.00115
7.500	10.000	.58739	4.00000	-.04246	-.02463	.33503	.07630	.06737	.00373	.00049	-.00146
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNH024)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = 375.0000 IN. YO
BREF = 936.6800 IN.	ZMRP = ... IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.58782	.00000	-.18388	-.04983	.21860	.05915	.04761	.00261	.00073	-.00113
10.000	8.000	.58743	2.00000	-.00854	-.02874	.27490	.06527	.05750	.00357	.00073	-.00119
10.000	10.000	.58754	4.00000	-.07576	-.07593	.33555	.07673	.06649	.00318	.00040	-.00152
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.58804	.00000	-.10235	-.01767	.21528	.05977	.04584	.00289	.00076	-.00135
15.000	8.000	.58810	2.00000	.05297	-.02567	.27530	.06595	.05588	.00275	.00059	-.00137
15.000	10.000	.58742	4.00000	.00257	.04641	.34261	.07805	.06323	.00354	.00046	-.00171
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.58757	.00000	-.09908	-.05168	.21878	.06145	.04353	.00258	.00069	-.00153
30.000	8.000	.58751	2.00000	-.03402	-.00815	.28555	.06859	.05389	.00249	.00049	-.00156
30.000	10.000	.58750	4.00000	-.11321	-.04740	.36139	.08238	.06301	.00348	.00033	-.00171
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAC	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.55595	.00000	.01170	-.06028	.21643	.06260	.04202	.00179	.00057	-.00150
45.000	8.000	.55569	2.00000	-.14933	-.07757	.29153	.07037	.05242	.00223	.00044	-.00170
45.000	10.000	.55677	4.00000	-.17441	-.15908	.37290	.08486	.06077	.00275	.00029	-.00157
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.56618	.00000	.03737	-.02820	.21827	.06291	.04173	.00195	.00054	-.00166
50.000	8.000	.56655	2.00000	-.18265	-.01953	.29405	.07071	.05211	.00244	.00048	-.00166
50.000	10.000	.56729	4.00000	-.13851	-.08646	.37530	.08530	.06016	.00218	.00022	-.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)

(ZNH025)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58688	.00000	-.08582	.17360	.31304	.06702	.05902	.00453	.00091	-.00090
3.500	10.000	.56953	2.00000	-.14166	-.01841	.33157	.08021	.06701	.00370	.00053	-.00100
3.500	12.000	.58754	4.00000	-.05494	-.02214	.44195	.09871	.07305	.00445	.00017	-.00144
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58725	.00000	-.09264	.11948	.31324	.06765	.05762	.00380	.00073	-.00128
7.500	10.000	.58832	2.00000	-.09157	.02817	.37663	.08042	.06533	.00332	.00043	-.00127
7.500	12.000	.58763	4.00000	-.06110	.00034	.44998	.10134	.07157	.00456	-.00002	-.00130
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58784	.00000	-.09040	.08861	.31397	.06802	.05658	.00307	.00059	-.00151
10.000	10.000	.58815	2.00000	-.03781	.05364	.37131	.08043	.06384	.00289	.00036	-.00138
10.000	12.000	.58774	4.00000	-.06054	.03091	.45594	.10338	.07046	.00487	-.00015	-.00117
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.56598	.00000	-.11995	.04068	.31176	.06865	.05539	.00369	.00064	-.00166
15.000	10.000	.58833	2.00000	-.06631	.03239	.37832	.08142	.06351	.00360	.00041	-.00183
15.000	12.000	.58759	4.00000	-.08560	-.02535	.46087	.10455	.06939	.00410	-.00024	-.00127
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58725	.00000	-.13458	.04159	.31250	.07046	.05296	.00295	.00056	-.00162
30.000	10.000	.59915	2.00000	-.11840	.01715	.38439	.08417	.06119	.00308	.00036	-.00148
30.000	12.000	.58844	4.00000	-.17807	-.03594	.47982	.11039	.06634	.00399	-.00023	-.00108
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA) (ZNH025) (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SO.FT.	XMRP = 1109.0000 IN.	XO	STAB = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	ELEVON = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	DX = 8.000	DX = .000
SCALE = .0125			MACH = .000	MACH = .600

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00 BETA = RUDDER = IORB = DY =

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
45.000	8.000	.58850	.00000	-.05870	.31148	.07153	.05122	-.01594	.00272	.00055	-.00154
45.000	10.000	.58832	2.00000	-.09865	.39258	.08597	.05944	.01874	.00277	.00027	-.00160
45.000	12.000	.58778	4.00000	-.17449	.49548	.11407	.06403	.00419	.00363	-.00026	-.00099
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
50.000	8.000	.58749	.00000	.01451	.31205	.07193	.05064	-.04207	.00223	.00055	-.00129
50.000	10.000	.58818	2.00000	-.07501	.39601	.08674	.05912	.01766	.00263	.00025	-.00146
50.000	12.000	.58720	4.00000	-.18335	.49858	.11484	.06351	.05471	.00396	-.00019	-.00112
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA) (ZNH027) (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SO.FT.	XMRP = 1109.0000 IN.	XO	STAB = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	ELEVON = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	DX = 8.000	DX = .000
SCALE = .0125			MACH = .000	MACH = .600

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00 BETA = RUDDER = IORB = DY =

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
3.500	8.000	.58488	.00000	-.04747	.31755	.05216	.04502	.07762	.00585	-.00006	-.00211
3.500	10.000	.58749	2.00000	-.16311	.38604	.06477	.05354	.16832	.00880	.00027	-.00255
3.500	12.000	.58723	4.00000	-.20081	.45945	.08486	.06000	.04725	.00823	-.00105	-.00216
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
7.500	8.000	.58594	.00000	-.11490	.31843	.05214	.04262	.07994	.00702	-.00009	-.00224
7.500	10.000	.58694	2.00000	-.10494	.38576	.06480	.05100	.09838	.00798	-.00005	-.00233
7.500	12.000	.58659	4.00000	-.14418	.46349	.08597	.05605	.05239	.00872	-.00099	-.00222
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 437

                        ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNH027)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   PARAMETRIC DATA
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   STAB   = .000   BETA   =
SCALE =   .0125   ELEVON = .000   RUDDER =
                                                            DX   = 8.000   IORB   =
                                                            MACH   = .000   DY   =   5.00

                                                            5.000
                                                             .000
                                                             .000
                                                             .600

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58659	.00000	-.15926	.08776	.3.963	.05231	.04051	.00781	-.00002	-.00231
10.000	10.000	.58622	2.00000	-.06494	.04699	.38599	.06500	.04892	.00702	-.00024	-.00206
10.000	12.000	.58595	4.00000	-.07448	.06433	.46553	.08665	.05287	.00885	-.00083	-.00227
10.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58657	.00000	-.17151	.04284	.31725	.05162	.03908	.00810	-.00048	-.00255
15.000	10.000	.58706	2.00000	-.09136	.04109	.38632	.06454	.04773	.00816	-.00072	-.00251
15.000	12.000	.58624	4.00000	-.13410	.04469	.47178	.08809	.05162	.01046	-.00121	-.00225
15.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58635	.00000	-.13749	.03346	.32024	.05382	.03508	.00830	-.00036	-.00273
30.000	10.000	.58528	2.00000	-.10994	.06309	.39464	.06747	.04392	.00805	-.00064	-.00244
30.000	12.000	.58570	4.00000	-.12824	.02846	.49110	.09335	.04808	.01003	-.00121	-.00230
30.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58545	.00000	-.07774	.00509	.32204	.05479	.03409	.00778	-.00052	-.00264
45.000	10.000	.58604	2.00000	-.08593	.00027	.40193	.06919	.04434	.00814	-.00064	-.00269
45.000	12.000	.58548	4.00000	-.16555	-.00382	.50403	.09638	.04625	.00952	-.00120	-.00226
45.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58502	.00000	-.04402	.04160	.31601	.05489	.03250	.00815	-.00034	-.00262
50.000	10.000	.58552	2.00000	-.10935	.05879	.40083	.06938	.04220	.00829	-.00063	-.00260
50.000	12.000	.58532	4.00000	-.16359	.07356	.50748	.09742	.04573	.00937	-.00122	-.00217
50.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (ZNH034)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0125					

PARAMETRIC DATA

STAB	=	5.000
ELEVON	=	.000
DX	=	.000
MACH	=	.600

BETA	=	.000
RUDDER	=	.000
IORB	=	6.000
DY	=	.000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.58836	.00000	-.09135	-.01652	.22059	.04049	.03834	.00872	-.00048	-.00197
3.500	8.000	.58780	2.00000	.17907	-.08260	.27436	.04658	.04791	.00923	-.00024	-.00213
3.500	10.000	.58729	4.00000	.00698	-.01949	.32858	.05678	.05811	.00915	-.00052	-.00259
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58714	.00000	-.10221	-.02782	.22249	.04105	.03335	.00901	-.00047	-.00226
7.500	8.000	.58690	2.00000	.05748	-.04403	.27928	.04741	.04351	.00867	-.00052	-.00226
7.500	10.000	.58754	4.00000	-.00159	-.04800	.33713	.05790	.05363	.00859	-.00065	-.00266
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.58771	.00000	-.09950	-.02445	.22249	.04094	.03094	.00867	-.00043	-.00240
10.000	8.000	.58687	2.00000	.05662	-.03676	.27866	.04780	.04135	.00861	-.00050	-.00230
10.000	10.000	.58669	4.00000	-.03795	-.06593	.34123	.05864	.05189	.00851	-.00071	-.00276
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.58751	.00000	-.08943	-.05005	.22198	.04167	.02750	.00856	-.00056	-.00238
15.000	8.000	.58668	2.00000	.05830	-.05788	.28256	.04839	.03838	.00864	-.00062	-.00244
15.000	10.000	.58727	4.00000	-.05445	-.07621	.34570	.05986	.04896	.00864	-.00064	-.00269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.58634	.00000	-.05173	-.00569	.22516	.04341	.02487	.00875	-.00052	-.00270
30.000	8.000	.58733	2.00000	.02490	-.04001	.29348	.05096	.03716	.00885	-.00046	-.00260
30.000	10.000	.58711	4.00000	-.07390	-.09332	.36657	.06380	.04669	.00838	-.00095	-.00279
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (ZNH034) (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.58727	.00000	-.01533	-.05004	.26395	.04381	.02348	.00782	-.00077	-.00266
45.000	8.000	.58711	2.00000	-.12592	-.06051	.29739	.05231	.03553	.00811	-.00069	-.00266
45.000	10.000	.58752	4.00000	-.15392	.00100	.37875	.06628	.04530	.00797	-.00096	-.00249
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58796	.00000	.05894	.01188	.22195	.04419	.02306	.00775	-.00063	-.00235
50.000	8.000	.58812	2.00000	-.14432	-.02287	.29975	.05249	.03528	.00800	-.00058	-.00257
50.000	10.000	.58765	4.00000	-.16747	-.05059	.38170	.06693	.04512	.00833	-.00083	-.00267
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (ZNH035) (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58696	.00000	-.07973	.05157	.11481	.03600	.02780	.00754	-.00010	-.00205
3.500	6.000	.58770	2.00000	-.01608	.10413	.17249	.03858	.03437	.00724	-.00018	-.00195
3.500	8.000	.58780	4.00000	-.03882	-.03346	.23150	.04434	.04281	.00688	-.00018	-.00200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58699	.00000	-.16588	.05294	.11820	.03655	.02242	.00729	-.00004	-.00214
7.500	6.000	.58732	2.00000	.07436	-.05716	.17817	.03903	.02937	.00710	-.00002	-.00203
7.500	8.000	.58723	4.00000	-.00439	.06897	.23795	.04530	.03810	.00639	-.00021	-.00209
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 AT1 O3S1 (ORBITER DATA)　　　(ZNH035)　(17 OCT 75)

REFERENCE DATA

SREF	=	2590.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	4.000	DX	=	.000
DY	=	4.000	MACH	=	.500

RUN NO.　　0/ 0　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58779	.00000	-.07609	.12369	.12330	.03675	.02020	.00704	.00010	-.00210
10.000	6.000	.58794	2.00000	.10970	.05689	.18680	.03951	.02759	.00705	.00008	-.00216
10.000	8.000	.58841	4.00000	.00020	.07970	.24661	.04598	.03712	.00665	.00008	-.00225
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58849	.00000	-.17434	.06725	.12580	.03745	.01751	.00702	.00000	-.00239
15.000	6.000	.58824	2.00000	-.06427	.07796	.19044	.04068	.02525	.00669	-.00029	-.00234
15.000	8.000	.58819	4.00000	-.07067	.01371	.25217	.04725	.03499	.00651	-.00016	-.00219
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58969	.00000	-.07086	.09440	.12646	.03888	.01418	.00646	-.00011	-.00232
30.000	6.000	.58898	2.00000	-.10285	.05238	.20053	.04305	.02271	.00662	-.00013	-.00232
30.000	8.000	.58898	4.00000	-.16552	.05946	.27027	.05066	.03392	.00605	-.00035	-.00230
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58793	.00000	-.04568	.10000	.13089	.03936	.01345	.00586	-.00036	-.00224
45.000	6.000	.58837	2.00000	-.13136	-.04855	.20489	.04460	.02163	.00557	-.00044	-.00230
45.000	8.000	.58880	4.00000	-.19234	-.00955	.28194	.05279	.03281	.00554	-.00057	-.00244
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58712	.00000	-.05959	.08025	.13259	.04016	.01327	.00566	-.00048	-.00227
50.000	6.000	.58810	2.00000	-.16166	.05529	.20550	.04505	.02131	.00511	-.00063	-.00230
50.000	8.000	.58850	4.00000	-.20141	-.03100	.28480	.05341	.03226	.00536	-.00066	-.00248
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 0351 (ORBITER DATA) (ZNH036)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 361/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	7.903	.58715	2.00000	-.05230	.19679	.27133	.04740	.04804	.00914	-.00062	-.00217
2.000	10.016	.58790	4.00000	-.19095	.23177	.32816	.05814	.05865	.00906	-.00067	-.00269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.096	.58749	2.00000	-.13248	.15931	.28277	.04901	.04746	.00858	-.00050	-.00225
3.500	9.922	.58652	4.00000	-.06137	.16359	.33033	.05820	.05604	.00917	-.00043	-.00256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.104	.58730	2.00000	-.10972	.22874	.29056	.04957	.04302	.00929	-.00019	-.00247
7.500	9.932	.58642	4.00000	-.06044	.19517	.34017	.05939	.05135	.00914	-.00043	-.00287
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.096	.58578	2.00000	-.12131	.20959	.28988	.04992	.04029	.00933	-.00005	-.00240
10.000	9.970	.58533	4.00000	-.05014	.17741	.34493	.06043	.04939	.00870	-.00047	-.00272
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.03000	.00000	.00000	.00000

RUN NO. 365/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.062	.58596	2.00000	-.09652	.20626	.29245	.05072	.03803	.00915	-.00021	-.00236
15.000	9.922	.58533	4.00000	-.03300	.14240	.35126	.06161	.04706	.00888	-.00046	-.00280
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.093	.58552	2.00000	-.17938	.18027	.30570	.05290	.03616	.00851	-.00040	-.00262
30.000	9.966	.58513	4.00000	-.15382	.12485	.37249	.06587	.04464	.00879	-.00059	-.00293
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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ARC 14-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.　XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.　　　YMRP = .0000 IN. YO
BREF = 936.6800 IN.　　　ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000　STAB = 5.000
RUDDER = 10.000　ELEVON = .000
IORB = 6.000　DX = .000
DY = .000　MACH = .600

RUN NO. 367/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.118	.58536	2.00000	-.12773	.16996	.30734	.05507	.03392	.00842	-.00042	-.00250
45.000	9.974	.58520	4.00000	-.10214	.15528	.33232	.06840	.04319	.00880	-.00060	-.00269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 368/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.072	.58475	2.00000	-.04440	.16650	.30410	.05512	.03272	.00836	-.00028	-.00237
50.000	9.962	.58452	4.00000	-.09832	.15991	.38762	.06943	.04244	.00857	-.00078	-.00264
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 369/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	8.098	.58490	2.00000	-.01489	.14432	.31216	.05561	.03331	.00814	-.00023	-.00247
60.000	9.963	.58408	4.00000	-.05197	.13629	.39004	.07011	.04158	.00848	-.00063	-.00260
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.　XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.　　　YMRP = .0000 IN. YO
BREF = 936.6800 IN.　　　ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000　STAB = -1.000
RUDDER = .000　ELEVON = .000
IORB = 6.000　DX = .000
DY = .000　MACH = .600

RUN NO. 371/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	5.775	.58985	.00000	-.11180	.10330	.21229	.04009	.03820	.00809	-.00014	-.00176
2.000	7.930	.59004	2.00000	-.08329	.07589	.26910	.04675	.04954	.00770	-.00043	-.00210
2.000	9.942	.59071	4.00000	-.11084	.06050	.32436	.05643	.05931	.00816	-.00052	-.00228
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNH037)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.184	.59018	.00000	-.13502	.15768	.22978	.04194	.03876	.00931	-.00012	-.00206
3.500	7.923	.59038	2.00000	.10093	.14028	.26819	.04657	.04751	.00853	-.00024	-.00212
3.500	9.915	.59033	4.00000	.04499	.13338	.30421	.05636	.05718	.00873	-.00025	-.00235
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.130	.58950	.00000	-.07039	.09754	.22874	.04178	.03262	.00882	-.00012	-.00226
7.500	7.940	.58960	2.00000	.05849	.13412	.27509	.04715	.04278	.00906	-.00002	-.00239
7.500	9.945	.58902	4.00000	.01620	.06683	.32595	.05782	.05296	.00825	-.00044	-.00280
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.172	.58846	.00000	-.11295	.09917	.23251	.04217	.03080	.00862	-.00020	-.00221
10.000	7.932	.58936	2.00000	.06036	.12215	.27349	.04730	.04033	.00784	-.00022	-.00226
10.000	9.931	.58870	4.00000	-.01932	.10589	.33006	.05842	.05071	.00803	-.00043	-.00274
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 375/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.191	.58908	.00000	-.14564	.13277	.23524	.04261	.02796	.00955	-.00012	-.00232
15.000	7.927	.58978	2.00000	.04444	.06929	.27616	.04824	.03726	.00857	-.00019	-.00244
15.000	9.914	.58882	4.00000	-.02656	.07398	.34191	.05951	.04770	.00780	-.00064	-.00267
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.149	.58881	.00000	-.12512	.12170	.23396	.04426	.02433	.00812	-.00023	-.00247
30.000	7.943	.58820	2.00000	-.02104	.11609	.28703	.05083	.03502	.00809	-.00024	-.00247
30.000	9.949	.58887	4.00000	-.13625	.08909	.36445	.06418	.04567	.00813	-.00055	-.00255
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 035I (ORBITER DATA)   (ZNH037)   (17 OCT 75   )

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.168	.58833	.00000	-.06037	.07487	.22558	.04503	.02208	.00789	-.00040	-.00255
45.000	7.947	.58991	2.00000	-.25014	.08152	.29544	.05241	.03466	.00809	-.00034	-.00261
45.000	9.954	.58898	4.00000	-.12897	.11615	.37912	.06667	.04424	.00804	-.00071	-.00257
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.177	.58795	.00000	-.01302	.05306	.23635	.04549	.02247	.00760	-.00037	-.00245
50.000	7.977	.58783	2.00000	-.23513	.12658	.29763	.05313	.03379	.00781	-.00038	-.00238
50.000	9.944	.58783	4.00000	-.21663	.11732	.37992	.06743	.04346	.00759	-.00083	-.00237
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	6.130	.58741	.00000	.11963	.10470	.23543	.04584	.02184	.00735	-.00054	-.00240
60.000	7.968	.58683	2.00000	-.20065	.11574	.29885	.05369	.03270	.00736	-.00048	-.00241
60.000	9.927	.58754	4.00000	-.23438	.09894	.38294	.06817	.04258	.00730	-.00080	-.00237
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 035I (ORBITER DATA)   (ZNH038)   (17 OCT 75   )

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.002	.58940	.00000	-.17966	.08842	.31463	.05245	-.00141	.00477	.00088	-.00088
2.000	7.874	.58902	2.00000	.01417	.09886	.36410	.06046	-.00765	.00479	.00078	-.00096
2.000	9.948	.58915	4.00000	-.08135	.09314	.42438	.07469	.01674	.00456	.00065	-.00139
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

APC 14-120(CA239) 747/1 ATI 0351 (ORBITER DATA) (ZNH038) (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000 ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 6.000 DX = .000
SCALE = .0125			DY = 5.00 MACH = .600

RUN NO. 392/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.193	.58938	.00000	-.19953	.10119	.36780	.05234	-.00198	-.00470	.00100	-.00094
3.500	7.361	.58846	2.00000	-.03082	.09433	.36319	.06033	-.00580	-.00473	.00099	-.00105
3.500	9.938	.58817	4.00000	-.05491	.06269	.46598	.07454	.01394	-.00476	.00098	-.00142
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.214	.58831	.00000	-.22228	.06097	.33171	.05316	-.00803	-.00425	.00107	-.00111
7.500	7.874	.58841	2.00000	.06212	.09080	.37202	.06073	-.00045	-.00443	.00124	-.00133
7.500	9.904	.58680	4.00000	-.03790	.09113	.43925	.07597	.00806	-.00420	.00111	-.00174
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 384/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.221	.58761	.00000	-.24754	.08638	.33252	.05386	-.01106	-.00427	.00120	-.00121
10.000	7.924	.58683	2.00000	.00331	.06002	.37711	.06199	-.00260	-.00436	.00127	-.00142
10.000	9.923	.58650	4.00000	-.07357	.04744	.44149	.07679	.00574	-.00410	.00117	-.00167
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 395/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.183	.58577	.00000	-.11087	.01898	.32521	.05414	-.01419	-.00459	.00123	-.00134
15.000	7.925	.58613	2.00000	.07620	.06586	.37970	.06266	-.00474	-.00440	.00130	-.00152
15.000	9.927	.58605	4.00000	-.00808	.07591	.44988	.07847	.00394	-.00423	.00129	-.00170
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.153	.58680	.00000	-.09695	.09200	.33254	.05546	-.01586	-.00422	.00115	-.00144
30.000	7.926	.58732	2.00000	.03962	.07523	.39102	.06510	-.00679	-.00385	.00112	-.00149
30.000	9.963	.58723	4.00000	-.10732	.04895	.46595	.08268	.00141	-.00398	.00120	-.00169
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (ZNH038)   (17 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO		BETA =	.000	STAB =	5.000
LREF = 474.8100 IN.	YMRP =	.0000 IN. YO		RUDDER =	.000	ELEVON =	5.000
BREF = 936.6800 IN.	ZMRP =	375.0000 IN. ZO		IORB =	6.000	DX =	.000
SCALE = .0125				DY =	.000	MACH =	.600

RUN NO. 387/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.149	.59561	.00000	-.10562	.06736	.32970	.05648	-.01716	.00408	.00110	-.00138
45.000	7.062	.59567	2.00000	-.05253	.08859	.33258	.06635	-.00792	.00418	.00124	-.00155
45.000	9.950	.59625	4.00000	-.17347	.03891	.47649	.08483	-.00012	.00352	.00101	-.00167
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 388/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.112	.58489	.00000	.10610	.11797	.32762	.05641	-.01757	.00365	.00084	-.00157
50.000	7.928	.58451	2.00000	-.14575	.08722	.39648	.06687	-.00823	.00374	.00105	-.00162
50.000	9.984	.58453	4.00000	-.18128	.08993	.48261	.08610	-.00040	.00389	.00109	-.00169
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 389/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	6.088	.58455	.00000	.14152	.12373	.31994	.05675	-.01876	.00400	.00100	-.00158
60.000	7.843	.58431	2.00000	-.06113	.08440	.39198	.06738	-.00976	.00378	.00112	-.00161
60.000	9.593	.58414	4.00000	-.21350	.05094	.46389	.07798	-.00084	.00350	.00120	-.00165
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNH039)   (17 OCT 75)

REFERENCE DATA

						PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO		BETA =	.000	STAB =	5.000
LREF = 474.8100 IN.	YMRP =	.0000 IN. YO		RUDDER =	10.000	ELEVON =	5.000
BREF = 936.6800 IN.	ZMRP =	375.0000 IN. ZO		IORB =	6.000	DX =	.000
SCALE = .0125				DY =	.000	MACH =	.600

RUN NO. 391/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	7.848	.59025	.00000	-.06042	.07823	.35168	.07785	.02468	.00514	.00125	-.00069
3.500	9.933	.59085	2.00000	-.04830	.00540	.41699	.09341	.03248	.00406	.00081	-.00108
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   (ZNH039)   (17 OCT 75)

ARC 14-120(CA23B)   747/1 AT1 O2S1   (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.094	.58973	2.00000	-.14945	.10879	.36881	.08097	.02273	.00496	.00125	-.00092
7.500	9.953	.58994	4.00000	-.06435	.06301	.42955	.09540	.02979	.00516	.00092	-.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.098	.59037	2.00000	-.16229	.06157	.37211	.08177	.02194	.00458	.00115	-.00102
10.000	9.970	.59072	4.00000	-.08977	.05457	.42649	.09578	.02830	.00454	.00090	-.00131
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.118	.59084	2.00000	-.20524	.05451	.37467	.08268	.02067	.00421	.00112	-.00099
15.000	9.959	.59115	4.00000	-.10508	.05130	.43335	.09719	.02729	.00446	.00090	-.00139
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.076	.59009	2.00000	-.12795	.09327	.37911	.08489	.01825	.00378	.00101	-.00121
30.000	9.951	.59121	4.00000	-.08579	.08929	.45672	.10190	.02536	.00397	.00075	-.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.057	.58969	2.00000	-.08100	.08085	.38512	.08613	.01699	.00363	.00096	-.00131
45.000	9.963	.59111	4.00000	-.11160	.06246	.46284	.10378	.02305	.00423	.00076	-.00157
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.085	.59072	2.00000	-.01490	.05986	.38625	.08661	.01649	.00345	.00096	-.00122
50.000	9.989	.59086	4.00000	-.05865	.05656	.46638	.10469	.02232	.00367	.00068	-.00141
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

APC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNH040)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE =	.0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58585	.00000	-.03191	.01407	.19530	.06261	.01029	.00381	.00132	-.00061
3.500	6.000	.58731	2.00000	-.01566	-.03599	.25363	.06750	.01648	.00381	.00120	-.00058
3.500	8.000	.58671	4.00000	-.06186	-.01604	.30964	.07554	.02393	.00409	.00117	-.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   PN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58538	.00000	-.06427	.08346	.20017	.06332	.00698	.00411	.00124	-.00094
7.500	6.000	.58728	2.00000	-.05303	-.00542	.25620	.06848	.01303	.00360	.00118	-.00073
7.500	8.000	.58751	4.00000	-.06491	-.02533	.31376	.07652	.02095	.00359	.00111	-.00071
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58556	.00000	-.10009	.08607	.20124	.06365	.00566	.00474	.00139	-.00098
10.000	6.000	.58679	2.00000	-.05271	.00618	.26063	.06899	.01244	.00394	.00127	-.00082
10.000	8.000	.58753	4.00000	-.09386	-.02923	.31865	.07726	.02025	.00375	.00113	-.00086
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58574	.00000	-.08259	.05888	.19642	.06428	.00327	.00355	.00124	-.00117
15.000	6.000	.58678	2.00000	-.05371	-.05011	.26420	.06991	.01102	.00333	.00113	-.00083
15.000	8.000	.58737	4.00000	-.03650	-.06713	.32640	.07868	.01936	.00304	.00101	-.00077
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58568	.00000	-.11034	.06133	.19764	.06592	.00091	.00338	.00120	-.00138
30.000	6.000	.58780	2.00000	-.04436	.03333	.27406	.07235	.00916	.00371	.00118	-.00117
30.000	8.000	.59718	4.00000	-.09299	-.04051	.34062	.08213	.01713	.00284	.00102	-.00096
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNH04D) (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO		RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO		IORB	=	4.000	DX	=	.000
SCALE	=	.0125					DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58585	.00000	.03619	.07788	.19818	.06699	-.00007	.00308	.00117	-.00126
45.000	6.000	.58757	2.00000	-.12600	.00303	.27535	.07392	.00771	.00294	.00107	-.00103
45.000	8.000	.58594	4.00000	-.16483	-.04990	.35505	.08464	.01633	.00290	.00098	-.00104
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.52590	.00000	.11191	.07149	.19802	.06727	-.00040	.00273	.00113	-.00119
50.000	6.000	.58745	2.00000	-.22841	-.02607	.27643	.07444	.00714	.00248	.00099	-.00092
50.000	8.000	.56589	4.00000	-.18856	-.05982	.36162	.08546	.01615	.00288	.00095	-.00102
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX10) (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO		BETA	=	.000	STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO		RUDDER	=	.000	ELEVON	=	5.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO		IORB	=	8.000	DX	=	.000
SCALE	=	.0125					DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.59573	2.00000	.00000	.69102	.46615	.10095	.02806	.00398	.00036	-.00131
3.500	12.000	.59129	4.00000	.00000	.65567	.53309	.12518	.03351	.00498	.00019	-.00094
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.55623	2.00000	.00000	.10196	.46871	.10188	.02638	.00387	.00043	-.00103
7.500	12.000	.55498	4.00000	.00000	.12026	.54571	.12784	.03155	.00512	-.00027	-.00074
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNHX10) (17 OCT 75)

REFERENCE DATA

SREF	=	2650.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6900 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	0.025			

PARAMETRIC DATA

STAB	=	5.000
ELEVON	=	5.000
DX	=	8.000
MACH	=	.600

BETA = , RUDDER = , IORB = , DY =

DZ 10.000 / 10.000   RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59778	2.00000	.00000	-.40753	.47085	.10252	.02517	.00393	.00054	-.00074
12.000	.59813	4.00000	.00000	-.29938	.55367	.12980	.03017	.00531	-.00032	-.00049
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00003	.00000	.00000	.00000	.00000

DZ 15.000 / 15.000   RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59647	2.00000	.00000	-.37808	.47128	.10331	.02375	.00319	.00034	-.00104
12.000	.59743	4.00000	.00000	-.41522	.55523	.13148	.02850	.00487	-.00037	-.00087
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 30.000 / 30.000   RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59650	2.00000	.00000	-.47262	.48255	.10651	.02149	.00309	.00016	-.00104
12.000	.59596	4.00000	.00000	-.47228	.57398	.13663	.02571	.00398	.00044	-.00073
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 45.000 / 45.000   RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59632	2.00000	.00000	-.43160	.49079	.10836	.02015	.00348	.00019	-.00078
12.000	.59524	4.00000	.00000	-.47800	.58572	.13985	.02371	.00381	-.00036	-.00086
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 50.000 / 50.000   RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59473	2.00000	.00000	-.48407	.48694	.10811	.01930	.00349	.00020	-.00086
12.000	.59448	4.00000	.00000	-.53399	.58912	.14069	.02313	.00393	-.00037	-.00074
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (ZNHX13)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP = .0000 IN.	YO
BREF =	925.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ 3.500 / 3.500

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59463	2.00000	.00000	-.40468	.35181	.08031	.02502	.00299	.00104	-.00047
10.000	.59358	4.00000	.00000	-.50809	.41338	.09464	.03215	.00274	.00080	-.00047
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ 7.500 / 7.500

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59270	2.00000	.00000	-.47674	.35263	.08068	.02239	.00242	.00103	-.00060
10.000	.59228	4.00000	.00000	-.49008	.42017	.09594	.02926	.00242	.00077	-.00058
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ 10.000 / 10.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59175	2.00000	.00000	-.55964	.35382	.08081	.02177	.00192	.00094	-.00070
10.000	.59204	4.00000	.00000	-.58322	.42216	.09635	.02847	.00252	.00072	-.00072
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 15.000 / 15.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59106	2.00000	.00000	-.48587	.35567	.08215	.02009	.00191	.00091	-.00073
10.000	.59101	4.00000	.00000	-.51663	.42465	.09784	.02634	.00229	.00063	-.00085
GRADIENT	.00000	.00000	.00000	.00100	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 30.000 / 30.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59039	2.00000	.00000	-.52819	.36544	.08424	.01840	.00187	.00084	-.00097
10.000	.59057	4.00000	.00000	-.50028	.44346	.10152	.02463	.00299	.00064	-.00097
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 45.000 / 45.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.59084	2.00000	.00000	-.52069	.36940	.08549	.01709	.00152	.00084	-.00087
10.000	.59105	4.00000	.00000	-.54159	.45356	.10403	.02281	.00213	.00050	-.00080
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (ZNHX13)   (17 OCT 75)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	DX = .000
SCALE = .0125			DY =	MACH = .600

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59149	2.00000	.00000	-.51807	.37026	.08642	.01631	.00136	.00089	-.00067
50.000	10.000	.59137	4.00000	.00000	-.55625	.45859	.10522	.02208	.00217	.00053	-.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (ZNHX14)   (17 OCT 75)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	DX = 10.000
SCALE = .0125			DY =	MACH = .600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58921	2.00000	10.00000	-.60672	.34991	.08019	.02167	.00208	.00118	-.00022
3.500	10.000	.58810	4.00000	10.00000	-.62422	.40591	.09450	.02712	.00195	.00093	-.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59102	2.00000	10.00000	-.57802	.35480	.08078	.01978	.00205	.00111	-.00050
7.500	10.000	.59021	4.00000	10.00000	-.57676	.41642	.09590	.02449	.00207	.00085	-.00053
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58959	2.00000	10.00000	-.65106	.35415	.08099	.01852	.00100	.00098	-.00063
10.000	10.000	.58965	4.00000	10.00000	-.62205	.41762	.09646	.02358	.00148	.00080	-.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58831	2.00000	10.00000	-.55318	.35646	.08218	.01731	.00126	.00104	-.00050
15.000	10.000	.58836	4.00000	10.00000	-.65905	.42507	.09835	.02245	.00177	.00075	-.00069
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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                        ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHX14)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   6.000   DX   = 10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
		RUN NO. 0/ 0	RN/L = 3.35	GRADIENT INTERVAL = -5.00/ 5.00							
30.000	8.000	.58818	2.00000	10.00000	-.54427	.36731	.08429	.01610	.00117	.00095	-.00083
30.000	10.000	.59074	4.00000	10.00000	-.65315	.44515	.10198	.02142	.00146	.00057	-.00095
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO. 0/ 0	RN/L = 3.35	GRADIENT INTERVAL = -5.00/ 5.00							
45.000	8.000	.59228	2.00000	10.00000	-.58631	.36993	.08531	.01521	.00132	.00105	-.00070
45.000	10.000	.59176	4.00000	10.00000	-.62227	.45985	.10474	.02053	.00124	.00048	-.00077
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO. 0/ 0	RN/L = 3.35	GRADIENT INTERVAL = -5.00/ 5.00							
50.000	8.000	.59041	2.00000	10.00000	-.57745	.37487	.08602	.01546	-.00018	.00074	-.00068
50.000	10.000	.59056	4.00000	10.00000	-.62433	.45962	.10491	.02036	.00108	.00048	-.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

                        ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHX15)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   9.000   DX   = 10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
		RUN NO. 0/ 0	RN/L = 3.34	GRADIENT INTERVAL = -5.00/ 5.00							
3.500	10.000	.59219	2.00000	10.00000	-.59402	.45294	.09745	.02438	.00167	.00085	-.00057
3.500	12.000	.58993	4.00000	10.00000	-.65242	.52051	.12159	.02362	.00448	.00026	.00004
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO. 0/ 0	RN/L = 3.34	GRADIENT INTERVAL = -5.00/ 5.00							
7.500	10.000	.59002	2.00000	10.00000	-.66536	.46011	.10012	.02373	.00250	.00077	-.00055
7.500	12.000	.58944	4.00000	10.00000	-.65825	.53240	.12476	.02335	.00452	.00011	-.00021
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA239) 747/1 AT1 0251 (ORBITER DATA)

(ZNHX15) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 10.000
DY = .000	MACH = .600

| RUN NO. | 0/ 0 | RN/L = | 3.33 | GRADIENT INTERVAL = | -5.00/ | 5.00 |

DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.58891	10.000 ALPHAC 2.00000	10.00000	-.69918	.46512	.10181	.02318	.00310	.00073	-.00055
10.000	.58894	12.000 4.00000	10.00000	-.64470	.54071	.12690	.02753	.00466	.00004	-.00045
	.00000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ | 5.00 |

DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58823	10.000 ALPHAC 2.00000	10.00000	-.73661	.46843	.10294	.02199	.00269	.00055	-.00077
15.000	.56988	12.000 4.00000	10.00000	-.71417	.55090	.12972	.02511	.00419	-.00022	-.00033
	.00000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ | 5.00 |

CZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	.58915	10.000 ALPHAC 2.00000	10.00000	-.59283	.48374	.10668	.02040	.00297	.00043	-.00078
30.000	.59073	12.000 4.00000	10.00000	-.65031	.57239	.13578	.02408	.00430	-.00023	-.00034
	.00000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ | 5.00 |

DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	.58995	10.000 ALPHAC 2.00000	10.00000	-.70121	.48493	.10727	.01937	.00237	.00024	-.00093
45.000	.58955	12.000 4.00000	10.00000	-.69625	.58316	.13667	.02284	.00412	-.00016	-.00046
	.00000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ | 5.00 |

DZ	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	.58887	10.000 ALPHAC 2.00000	10.00000	-.71338	.48903	.10805	.01921	.00260	.00027	-.00069
50.000	.58933	12.000 4.00000	10.00000	-.67087	.58875	.13971	.02257	.00350	-.00033	-.00026
	.00000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 455

                        ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHX16)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RUN NO.   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	.58974	8.000	2.00000	20.00000	-.85011	.34968	.08284	.01698	.00291	.00112	-.00046
3.500	.59003	10.000	4.00000	20.00000	-.76988	.40712	.09733	.02124	.00335	.00091	-.00053
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00003	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	.58931	8.000	2.00000	20.00000	-.81185	.35427	.08298	.01448	.00334	.00122	-.00065
7.500	.58946	10.000	4.00000	20.00000	-.81231	.41535	.09809	.01862	.00366	.00096	-.00076
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59013	8.000	2.00000	20.00000	-.76413	.35410	.08296	.01372	.00272	.00108	-.00071
10.000	.58931	10.000	4.00000	20.00000	-.80148	.41651	.09845	.01794	.00338	.00083	-.00080
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58937	8.000	2.00000	20.00000	-.84082	.35879	.08323	.01339	.00279	.00106	-.00078
15.000	.58930	10.000	4.00000	20.00000	-.75321	.42530	.09923	.01780	.00346	.00072	-.00099
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	.59004	8.000	2.00000	20.00000	-.80629	.36767	.08464	.01349	.00279	.00097	-.00113
30.000	.59027	10.000	4.00000	20.00000	-.85063	.44313	.10245	.01817	.00288	.00065	-.00095
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	.58948	8.000	2.00000	20.00000	-.75331	.37231	.08576	.01364	.00211	.00090	-.00089
45.000	.58970	10.000	4.00000	20.00000	-.77027	.45662	.10466	.01850	.00299	.00052	-.00104
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 0251 (ORBITER DATA)   (ZNHX16)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	20.000
DY =		MACH =	.600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58887	2.00000	20.00000	-.80299	.37213	.08622	.01354	.00212	.00094	-.00085
50.000	10.000	.58896	4.00000	20.00000	-.77864	.45747	.10518	.01839	.00307	.00051	-.00096
	12.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT										

ARC 14-120(C423B)   747/1 AT1 0251 (ORBITER DATA)   (ZNHX17)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	20.000
DY =		MACH =	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58981	2.00000	20.00000	-.53583	.44996	.09892	.02216	.00239	.00074	-.00121
3.500	12.000	.58835	4.00000	20.00000	-.91880	.52070	.12380	.02540	.00624	.00017	-.00015
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.59078	2.00000	20.00000	-.71654	.45714	.10149	.02093	.00356	.00070	-.00101
7.500	12.000	.58999	4.00000	20.00000	-.86406	.52373	.12550	.02404	.00559	.00002	-.00042
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.59142	2.00000	20.00000	-.82520	.46244	.10316	.01992	.00432	.00070	-.00084
10.000	12.000	.59107	4.00000	20.00000	-.81252	.53488	.12675	.02307	.00503	.00010	-.00062
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.59121	2.00000	20.00000	-.83998	.46368	.10350	.01893	.00455	.00059	-.00120
15.000	12.000	.59220	4.00000	20.00000	-.83206	.54952	.12819	.02194	.00520	.00015	-.00075
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNHX17)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=		STAB	=	.000
RUDDER	=		ELEVON	=	.000
IORB	=		DX	=	8.000
DY	=		MACH	=	.000

STAB = 5.000
ELEVON = 5.000
DX = 20.000
MACH = .600

| | RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.59109	2.00000	20.00000	-.87982	.47466	.10600	.01801	.00433	.00053	-.00103
30.000	12.000	.59091	4.00000	20.00000	-.77306	.56562	.13429	.02145	.00601	.00028	-.00084
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| | RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.59145	2.00000	20.00000	-.82857	.48320	.10690	.01805	.00321	.00018	-.00088
45.000	12.000	.59106	4.00000	20.00000	-.78742	.57957	.13792	.02117	.00484	.00033	-.00089
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| | RUN NO. | 0/ 0 | RN/L = | 3.35 | GRADIENT INTERVAL = | -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.59044	2.00000	20.00000	-.87139	.48115	.10712	.01733	.00346	.00033	-.00089
50.000	12.000	.59121	4.00000	20.00000	-.82092	.58066	.13827	.02094	.00502	.00029	-.00078
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (ZNHX27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=		STAB	=	.000
RUDDER	=		ELEVON	=	.000
IORB	=		DX	=	8.000
DY	=		MACH	=	.000

STAB = 5.000
ELEVON = .000
DX = 8.000
MACH = .600

| | RUN NO. | 0/ 0 | RN/L = | 3.31 | GRADIENT INTERVAL = | -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58756	2.00000	.00000	.15855	.38555	.06449	.05366	.00883	.00026	-.00254
3.500	12.000	.58727	4.00000	.00000	.04730	.45935	.08494	.05978	.00824	-.00104	-.00218
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| | RUN NO. | 0/ 0 | RN/L = | 3.30 | GRADIENT INTERVAL = | -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58736	2.00000	.00000	.09435	.38557	.06456	.05136	.00801	-.00007	-.00233
7.500	12.000	.58662	4.00000	.00000	.00001	.46376	.08592	.05400	.00873	-.00098	-.00223
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 ATI 0351 (ORBITER DATA)　　(ZNHX27)　(17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =		STAB =	5.000
RUDDER =	.000	ELEVON =	.000
ICRB =	.000	DX =	.000
DY =	8.000	MACH =	.600

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ
10.000
10.000

ALPHAO	ALPHAC	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	2.00000	.58523	.00000	.04488	.38582	.06492	.04895	.00705	-.00025	-.00206
12.000	4.00000	.58597	.00000	.06129	.46614	.08647	.05300	.00887	-.00083	-.00228
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ
15.000
15.000

ALPHAO	ALPHAC	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	2.00000	.58706	.00000	.04020	.38624	.06449	.04771	.00817	-.00072	-.00251
12.000	4.00000	.58628	.00000	.04479	.47158	.08804	.05158	.01042	-.00121	-.00226
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ
30.000
30.000

ALPHAO	ALPHAC	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	2.00000	.58533	.00000	.06130	.39461	.06740	.04397	.00807	-.00064	-.00244
12.000	4.00000	.58575	.00000	.02755	.49093	.09528	.04809	.01002	-.00122	-.00230
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ
45.000
45.000

ALPHAO	ALPHAC	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	2.00000	.58607	.00000	.06827	.40181	.06912	.04337	.00815	-.00064	-.00269
12.000	4.00000	.58557	.00000	.00121	.50385	.09630	.04628	.00952	-.00120	-.00226
GRADIENT	.00000	.00000	.00000	-.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ
50.000
50.000

ALPHAO	ALPHAC	MACH	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	2.00000	.58565	.00000	.05736	.40079	.06930	.04226	.00830	-.00063	-.00260
12.000	4.00000	.58526	.00000	.07269	.50721	.09731	.04579	.00937	-.00121	-.00217
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA239) 747/1 ATI O3SI (ORBITER DATA)　　(ZNHX28)　(17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA =	STAB =	5.000
RUDDER =	ELEVON =	.000
IORB =	DX =	10.000
DY =	MACH =	.600

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	.58687	8.000	2.00000	10.00000	-.01230	.27315	.04835	.03994	.00827	.00020	-.00185
3.500	.58723	10.000	4.00000	10.00000	.09360	.32742	.05921	.04830	.00831	.00008	-.00226
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	.58766	8.000	2.00000	10.00000	.02359	.27979	.04894	.03625	.00814	.00016	-.00211
7.500	.58809	10.000	4.00000	10.00000	.03178	.33752	.05986	.04462	.00804	-.00006	-.00244
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.58624	8.000	2.00000	10.00000	-.00874	.28269	.04905	.03473	.00747	-.00008	-.00217
10.000	.58656	10.000	4.00000	10.00000	.05953	.34052	.06035	.04222	.00766	-.00021	-.00240
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58701	8.000	2.00000	10.00000	.08914	.28610	.04972	.03309	.00749	-.00007	-.00232
15.000	.58720	10.000	4.00000	10.00000	.02589	.34435	.06153	.04133	.00743	-.00024	-.00255
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	.58688	8.000	2.00000	10.00000	.05812	.29191	.05152	.03226	.00728	-.00021	-.00233
30.000	.58711	10.000	4.00000	10.00000	.05636	.36548	.06536	.04158	.00780	-.00040	-.00263
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	.58645	8.000	2.00000	10.00000	-.01492	.29410	.05296	.03175	.00698	-.00034	-.00229
45.000	.58643	10.000	4.00000	10.00000	.07284	.37471	.06753	.04082	.00755	-.00045	-.00225
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)

(ZNHX28)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

GREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	ELEVON = .000	.000
GREF = 936.5800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	DX = 6.000	10.000
SCALE = .0125			DY =	MACH = .000	.600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58633	2.00000	10.00000	.05297	.29927	.05338	.03197	.00708	-.00027	-.00238
50.000	10.000	.58669	4.00000	10.00000	.02953	.38144	.06826	.04104	.00752	-.00051	-.00236
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)

(ZNHX29)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

GREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	ELEVON = .000	.000
GREF = 936.5800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	DX = 8.000	10.000
SCALE = .0125			DY =	MACH = .000	.600

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58965	2.00000	10.00000	.07085	.36973	.06018	.05095	.00779	-.00001	-.00235
3.500	12.000	.58806	4.00000	10.00000	.00873	.44062	.08157	.05506	.00953	-.00031	-.00309
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58849	2.00000	10.00000	.03020	.37631	.06290	.04780	.00782	-.00017	-.00221
7.500	12.000	.58815	4.00000	10.00000	.03353	.44957	.08351	.05191	.00913	-.00058	-.00278
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58770	2.00000	10.00000	-.01491	.38109	.06466	.04549	.00784	-.00024	-.00214
10.000	12.000	.58827	4.00000	10.00000	.04742	.45639	.08492	.04961	.00889	-.00075	-.00256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58909	2.00000	10.00000	.09362	.38557	.06547	.04342	.00761	-.00046	-.00227
15.000	12.000	.58829	4.00000	10.00000	.06535	.46210	.08622	.04743	.00847	-.00103	-.00241
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA) (ZNHX29) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA = .000 STAB = 5.000
LREF = 474.8100 IN. YMRP = .0000 IN. YO   RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO   IORB = 8.000 DX = 10.000
SCALE = .0125   DY = .000 MACH = .600

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58839	10.00000	2.00000	.05480	.39664	.06782	.04206	.00755	-.00058	-.00242
30.000	12.000	.58942	10.00000	4.00000	.05027	.48717	.09283	.04505	.00927	-.00122	-.00223
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58880	10.00000	2.00000	.06013	.40006	.06943	.04156	.00760	-.00059	-.00257
45.000	12.000	.58936	10.00000	4.00000	.11899	.50055	.09651	.04440	.00907	-.00118	-.00211
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58987	10.00000	2.00000	.05102	.40242	.06981	.04125	.00752	-.00044	-.00213
50.000	12.000	.58924	10.00000	4.00000	.07609	.50328	.09730	.04416	.00896	-.00097	-.00211
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA) (ZNHX30) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA = .000 STAB = 5.000
LREF = 474.8100 IN. YMRP = .0000 IN. YO   RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO   IORB = 8.000 DX = 20.000
SCALE = .0125   DY = .000 MACH = .600

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58988	20.00000	2.00000	.02299	.36934	.06168	.04544	.00757	.00028	-.00221
3.500	12.000	.58951	20.00000	4.00000	.04884	.43558	.08135	.04694	.00815	-.00017	-.00212
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58992	20.00000	2.00000	.03582	.37643	.05374	.04254	.00762	.00008	-.00223
7.500	12.000	.58953	20.00000	4.00000	.03591	.44438	.08291	.04545	.00808	-.00036	-.00245
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 ATI O3S1 (ORBITER DATA)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　(ZNHX30)　(17 OCT 75)

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
CREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.000

RUN NO.　　0/ 0　　RN/L =　3.30　　GRADIENT INTERVAL =　-5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58700	2.00000	20.00000	.05242	.38247	.06522	.04089	.00771	-.00006	-.00230
10.000	12.000	.58651	4.00000	20.00000	.02600	.45086	.08404	.04439	.00802	-.00052	-.00271
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L =　3.30　　GRADIENT INTERVAL =　-5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58572	2.00000	20.00000	.03261	.38214	.06533	.03918	.00745	-.00014	-.00217
15.000	12.000	.58560	4.00000	20.00000	.02195	.45718	.08533	.04337	.00808	-.00057	-.00276
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L =　3.29　　GRADIENT INTERVAL =　-5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58806	2.00000	20.00000	.04541	.39200	.06801	.03954	.00737	-.00040	-.00238
30.000	12.000	.58578	4.00000	20.00000	.08552	.48377	.09179	.04267	.00882	-.00098	-.00219
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L =　3.30　　GRADIENT INTERVAL =　-5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58763	2.00000	20.00000	.06524	.40161	.06927	.04036	.00707	-.00064	-.00237
45.000	12.000	.58716	4.00000	20.00000	.09032	.49026	.09388	.04303	.00867	-.00109	-.00227
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L =　3.30　　GRADIENT INTERVAL =　-5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58729	2.00000	20.00000	-.00144	.40091	.06955	.04051	.00735	-.00047	-.00236
50.000	12.000	.58764	4.00000	20.00000	.05742	.50275	.09626	.04300	.00883	-.00111	-.00220
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 1U-120(CA23B)　747/1 ATI 03S1 (ORBITER DATA)　　　　(ZNHX31)　(17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0125				

PARAMETRIC DATA

BETA =	5.00	STAB =	5.000
RUDDER =		ELEVON =	.000
IORB =		DX =	20.000
DY =		MACH =	.600

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58478	2.00000	20.00000	.03430	.27510	.04961	.03120	.00717	.00030	-.00172
3.500	10.000	.58701	4.00000	20.00000	.11658	.33292	.06042	.03871	.00701	-.00003	-.00224
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58500	2.00000	20.00000	.05331	.28123	.05023	.02991	.00714	.00017	-.00185
7.500	10.000	.58679	4.00000	20.00000	.08012	.33913	.06124	.03785	.00712	-.00005	-.00233
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58711	2.00000	20.00000	.07032	.28603	.05039	.02916	.00713	.00007	-.00202
10.000	10.000	.58647	4.00000	20.00000	.05234	.34346	.06181	.03725	.00717	-.00007	-.00237
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58715	2.00000	20.00000	.07484	.28787	.05031	.02878	.00707	.00008	-.00193
15.000	10.000	.58714	4.00000	20.00000	.02941	.34870	.05247	.03678	.00740	-.00002	-.00254
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58705	2.00000	20.00000	.07432	.29595	.05264	.03026	.00726	-.00016	-.00226
30.000	10.000	.58711	4.00000	20.00000	.06357	.36524	.05530	.03870	.00667	-.00046	-.00224
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58719	2.00000	20.00000	.09486	.29863	.05336	.03062	.00669	-.00023	-.00211
45.000	10.000	.58694	4.00000	20.00000	.06728	.37648	.06739	.03982	.00727	-.00044	-.00246
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNHX31)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58699	2.00000	20.00000	.02027	.29954	.05362	.03066	.00645	-.00024	-.00217
50.000	10.000	.58709	4.00000	20.00000	.02391	.37739	.06780	.03986	.00691	-.00053	-.00241
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNHX34)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58780	2.00000	.00000	-.07105	.27468	.04685	.04780	.00917	-.00023	-.00214
3.500	10.000	.58730	4.00000	.00000	-.01686	.32933	.05713	.05782	.00908	-.00052	-.00257
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58631	2.00000	.00000	-.03982	.27938	.04758	.04342	.00862	-.00050	-.00226
7.500	10.000	.58751	4.00000	.00000	-.04258	.33730	.05828	.05330	.00853	-.00065	-.00264
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58688	2.00000	.00000	-.03324	.27895	.04797	.04126	.00856	-.00049	-.00229
10.000	10.000	.58670	4.00000	.00000	-.06070	.34172	.05890	.05163	.00848	-.00070	-.00274
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58673	2.00000	.00000	-.05303	.28282	.04859	.03831	.00859	-.00061	-.00244
15.000	10.000	.58727	4.00000	.00000	-.07127	.34730	.06018	.04868	.00863	-.00063	-.00267
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

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ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (ZNHX34)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON =   .000
IORB   = 6.000   DX   =   .000
DY   = .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58733	2.00000	.00000	-.03707	.29362	.05110	.03705	.00880	-.00046	-.00260
30.000	10.000	.58712	4.00000	.00000	-.00604	.36715	.06416	.04641	.00836	-.00094	-.00277
GRADIENT	12.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58710	2.00000	.00000	-.05594	.29754	.05248	.03537	.00805	-.00068	-.00265
45.000	10.000	.58749	4.00000	.00000	-.06247	.37919	.06661	.04500	.00795	-.00095	-.00248
GRADIENT	12.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58804	2.00000	.00000	-.01817	.29998	.05269	.03508	.00794	-.00058	-.00256
50.000	10.000	.58759	4.00000	.00000	-.04502	.38230	.06730	.04479	.00828	-.00082	-.00265
GRADIENT	12.000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNHY10)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = 5.000
IORB   = 8.000   DX   =   .000
DY   = .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.59503	2.00000	-.01267	.00000	.46595	.10124	.02801	.00406	.00046	-.00109
3.500	12.000	.59130	4.00000	-.01620	.00000	.53870	.12511	.03341	.00528	-.00013	-.00053
GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.59631	2.00000	-.02630	.00000	.46870	.10190	.02638	.00389	.00044	-.00101
7.500	12.000	.59536	4.00000	-.04050	.00000	.54574	.12787	.03155	.00517	-.00026	-.00068
GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (ZNHY10)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

STAB	=	.000	BETA	=	
ELEVON	=	.000	RUDDER	=	
DX	=	8.000	IORB	=	
MACH	=	.000	DY	=	

STAB = 5.000
ELEVON = 5.000
DX = .300
MACH = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.59752	2.00000	-.03048	.00000	.47109	.10252	.02522	.00390	.00050	-.00085
10.000	12.000	.59802	4.00000	-.07336	.00000	.55081	.12978	.03022	.00522	.00034	-.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.59633	2.00000	-.02992	.00000	.47133	.10333	.02377	.00316	.00032	-.00110
15.000	12.000	.59726	4.00000	-.07123	.00000	.55529	.13146	.02855	.00480	.00039	-.00098
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.59637	2.00000	-.08807	.00000	.48237	.10649	.02153	.00307	.00015	-.00108
30.000	12.000	.59584	4.00000	-.11959	.00000	.57435	.13664	.02176	.00391	.00045	-.00080
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.59620	2.00000	-.10677	.00000	.49074	.10835	.02019	.00347	.00018	-.00081
45.000	12.000	.59522	4.00000	-.19602	.00000	.58589	.13989	.02377	.00382	.00036	-.00090
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.59459	2.00000	-.01444	.00000	.48705	.10811	.01936	.00347	.00020	-.00088
50.000	12.000	.59441	4.00000	-.12143	.00000	.58919	.14070	.02319	.00391	.00038	-.00078
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　　(ZNHY13)　(17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

BETA =	.000
RUDDER =	.000
IOPB =	6.000
DY =	.000

STAB =	5.000
ELEVON =	5.000
DX =	.000
MACH =	.600

RUN NO.　0/ 0　　RN/L = 3.34　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59450	2.00000	-.03811	.00000	.35204	.08028	.02502	.00301	.00099	-.00059
.59354	4.00000	-.06523	.00000	.41371	.09464	.03221	.00270	.00071	-.00075
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
3.500
3.500　GRADIENT

RUN NO.　0/ 0　　RN/L = 3.34　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59261	2.00000	.01798	.00000	.35307	.08069	.02238	.00240	.00098	-.00071
.59217	4.00000	-.04063	.00000	.42057	.09597	.02926	.00237	.00070	-.00079
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
7.500
7.500　GRADIENT

RUN NO.　0/ 0　　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59174	2.00000	-.01436	.00000	.35427	.08084	.02275	.00195	.00090	-.00082
.59204	4.00000	-.07557	.00000	.42275	.09642	.02849	.00247	.00065	-.00094
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
10.000
10.000　GRADIENT

RUN NO.　0/ 0　　RN/L = 3.35　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59103	2.00000	.07897	.00000	.35606	.08214	.02008	.00192	.00088	-.00082
.59103	4.00000	-.01760	.00000	.42661	.09790	.02685	.00224	.00058	-.00100
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
15.000
15.000　GRADIENT

RUN NO.　0/ 0　　RN/L = 3.35　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59046	2.00000	.00995	.00000	.35760	.08496	.01835	.00188	.00083	-.00102
.59054	4.00000	-.09351	.00000	.44476	.10159	.02461	.00294	.00061	-.00105
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
30.000
30.000　GRADIENT

RUN NO.　0/ 0　　RN/L = 3.35　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59085	2.00000	.04067	.00000	.35973	.08554	.01704	.00154	.00084	-.00091
.59157	4.00000	-.06459	.00000	.44417	.10411	.02273	.00214	.00049	-.00096
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ
45.000
45.000　GRADIENT

ARC 14-120(CA23B) 747/1 ATI 02SI (ORBITER DATA)   (VNHM41) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.500

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	MACH	IORB	DX	DY	CL	CD	CY	CYN	CBL	CLM
2.000	.50000	4.01317	-.07934	-.09718	.28000	.07345	.00263	.00093	-.00105	.00782
4.000	.50000	3.94777	-.09778	-.14783	.35279	.08373	.00305	.00093	-.00092	.01574
GRADIENT	.00000	-.03270	-.00922	-.02532	.03640	.00514	.00021	-.00000	-.00006	.00396

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	MACH	IORB	DX	DY	CL	CD	CY	CYN	CBL	CLM
2.000	.50000	3.99721	-.08686	-.08635	.28209	.07378	.00254	.00090	-.00114	.00757
4.000	.50000	3.94057	-.12072	-.14681	.35752	.08446	.00300	.00090	-.00091	.01537
GRADIENT	.00000	-.02832	-.01693	-.03023	.03772	.00534	.00023	.00000	.00011	.00390

ARC 14-120(CA23B) 747/1 ATI 02SI (ORBITER DATA)   (VNHM42) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.300

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	MACH	IORB	DX	DY	CL	CD	CY	CYN	CBL	CLM
2.000	.30000	3.96366	-.01826	-.01679	.24783	.06851	.00326	.00073	-.00040	.01568
4.000	.30000	3.93590	-.00129	-.02787	.30620	.07713	.00315	.00070	-.00047	.02255
GRADIENT	.00000	-.01388	.00849	-.00554	.02919	.00431	-.00006	-.00001	-.00003	.00343

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	MACH	IORB	DX	DY	CL	CD	CY	CYN	CBL	CLM
2.000	.30000	3.99447	-.06493	-.04520	.25897	.06979	.00189	.00050	-.00048	.01347
4.000	.30000	3.98402	-.07572	-.02685	.31786	.07887	.00266	.00071	-.00041	.01997
GRADIENT	.00000	-.00522	-.00539	.00917	.02944	.00454	.00038	.00011	.00003	.00325

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (VNHM42)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.300

DZ = 10.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	3.95201	-.00117	-.01635	.25472	.07000	.01200	.00063	.00035	-.00084
4.000	.30000	3.99449	-.08873	-.04987	.32044	.07979	.01912	.00144	.00043	-.00047
GRADIENT	.00000	.02124	-.04378	-.01676	.03286	.00489	.00356	.00040	.00004	.00019

DZ = 15.000   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.00542	-.07846	-.02784	.26416	.07178	.01076	.00246	.00059	-.00051
4.000	.30000	3.96126	-.04327	-.03544	.33075	.08097	.01819	.00252	.00056	-.00083
GRADIENT	.00000	-.02208	.01759	-.00380	.03330	.00460	.00371	.00003	-.00001	-.00016

DZ = 30.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02939	-.11489	-.03594	.27456	.07425	.00924	.00250	.00053	-.00097
4.000	.30000	3.97863	-.07696	-.04474	.34867	.08424	.01711	.00195	.00044	-.00083
GRADIENT	.00000	-.02538	.01896	-.00440	.03705	.00500	.00394	-.00027	-.00005	.00007

DZ = 45.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02411	-.09171	-.12238	.28098	.07544	.00835	.00198	.00053	-.00073
4.000	.30000	3.98272	-.05811	-.10952	.35594	.08543	.01558	.00119	.00041	-.00051
GRADIENT	.00000	-.02069	.01680	.00643	.03748	.00500	.00362	-.00040	-.00006	.00011

DZ = 50.000   RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	MACH	IORB	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.30000	4.02982	-.09355	-.16157	.28410	.07587	.00809	.00209	.00057	-.00050
4.000	.30000	3.97770	-.04004	-.13170	.35813	.08564	.01499	.00117	.00045	-.00042
GRADIENT	.00000	-.02606	.02675	.01493	.03702	.00488	.00345	-.00046	-.00006	.00004

ARC 14-120(CA23B)　747/1 AT1 0251 (ORBITER DATA)

　　　REFERENCE DATA　　　　　　　　　　　　　　　　　　　(ZNH008)　　(17 OCT 75)

PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO.　0/ 0　　RN/L =　3.34　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.59057	.00000	.67175	-.18918	.28470	.06975	.01668	.00356	.00123	-.00062
3.500	8.000	.58914	2.00000	-.05416	.10106	.34150	.07509	.02385	.00395	.00105	-.00075
3.500	10.000	.59028	4.00000	-.07544	.18983	.40441	.09219	.03130	.00381	.00074	-.00082
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　　RN/L =　3.35　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58987	.00000	-.09481	-.36797	.28831	.07097	.01297	.00303	.00115	-.00066
7.500	8.000	.58902	2.00000	-.01120	-.31915	.34513	.07989	.02130	.00328	.00108	-.00081
7.500	10.000	.59118	4.00000	-.05854	-.46731	.41323	.09493	.02836	.00345	.00074	-.00081
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　　RN/L =　3.35　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.59202	.00000	-.15116	-.53535	.28895	.07151	.01176	.00239	.00100	-.00085
10.000	8.000	.59301	2.00000	.03752	-.47390	.34925	.08041	.02080	.00134	.00068	-.00116
10.000	10.000	.59058	4.00000	-.02591	-.41868	.41402	.09571	.02724	.00290	.00066	-.00103
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　2/ 0　　RN/L =　3.35　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.59255	.00000	-.09969	-.47798	.28632	.07238	.01011	.00269	.00102	-.00089
15.000	8.000	.59219	2.00000	.01879	-.34585	.34861	.08146	.01906	.00268	.00091	-.00111
15.000	10.000	.59101	4.00000	-.06179	-.40137	.42038	.09742	.02584	.00327	.00066	-.00101
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　　RN/L =　3.35　　GRADIENT INTERVAL =　-5.00/　5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.59159	.00000	-.09209	-.40582	.28526	.07406	.00775	.00226	.00100	-.00095
30.000	8.000	.59155	2.00000	.00780	-.33416	.35905	.08412	.01703	.00228	.00086	-.00118
30.000	10.000	.59167	4.00000	-.10720	-.40864	.43664	.10132	.02308	.00305	.00049	-.00119
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH008)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.	0/ 0	RN/L =	3.34	GRADIENT INTERVAL =	-5.00/	5.00			
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.59230	.00000	-.07540	-.47401	.28293	.07525	.00632	.00176	.00092	-.00087
45.000	8.000	.59324	2.00000	.00616	-.48236	.36228	.08573	.01523	.00174	.00075	-.00109
45.000	10.000	.59245	4.00000	-.16925	-.52115	.45028	.10447	.02121	.00266	.00043	-.00113
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.	0/ 0	RN/L =	3.33	GRADIENT INTERVAL =	-5.00/	5.00			
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.59329	.00000	.04229	-.53060	.28567	.07547	.00616	.00154	.00086	-.00091
50.000	8.000	.59239	2.00000	-.15757	-.45502	.36357	.08629	.01485	.00182	.00083	-.00091
50.000	10.000	.59204	4.00000	-.20162	-.48963	.45185	.10491	.02060	.00258	.00043	-.00091
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH009)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
PREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.	0/ 0	RN/L =	3.34	GRADIENT INTERVAL =	-5.00/	5.00			
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58956	.00000	-1.54649	-.28840	.39564	.08390	.02127	.00468	.00105	-.00057
3.500	10.000	.59001	2.00000	-.75004	-.55882	.45578	.09996	.02781	.00455	.00064	-.00021
3.500	12.000	.59111	4.00000	.01750	-.58163	.52598	.12278	.03390	.00519	.00004	-.00057
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.	0/ 0	RN/L =	3.35	GRADIENT INTERVAL =	-5.00/	5.00			
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58991	.00000	-2.01103	-.46973	.39503	.08553	.01856	.00396	.00087	-.00073
7.500	10.000	.59113	2.00000	-.37393	-.49652	.46036	.10016	.02612	.00452	.00067	-.00053
7.500	12.000	.59117	4.00000	-.02504	-.53884	.53183	.12455	.03199	.00548	-.00008	-.00064
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/I ATI O2SI (ORBITER DATA)   (ZNH009)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59127	.00000	-.07935	-.48612	.39692	.08490	.01898	.00344	.00090	-.00100
10.000	10.000	.59204	2.00000	-.05658	-.43816	.45528	.10023	.02491	.00489	.00078	-.00074
10.000	12.000	.59073	4.00000	-.05430	-.53020	.53670	.12590	.03068	.00579	-.00009	-.00066
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59244	.00000	-.18171	-.39780	.38362	.08468	.01744	.00243	.00068	-.00102
15.000	10.000	.59188	2.00000	-.01052	-.46944	.45715	.10084	.02354	.00316	.00040	-.00101
15.000	12.000	.59315	4.00000	-.09143	-.53470	.53951	.12745	.02880	.00546	-.00023	-.00078
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59222	.00000	-.13688	-.52196	.38623	.08659	.01550	.00249	.00068	-.00124
30.000	10.000	.59285	2.00000	-.10129	-.42881	.46621	.10428	.02129	.00378	.00033	-.00111
30.000	12.000	.59137	4.00000	-.13779	-.53052	.56267	.13387	.02602	.00577	-.00035	-.00063
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59197	.00000	-.04829	-.55849	.38116	.08760	.01363	.00262	.00073	-.00115
45.000	10.000	.59243	2.00000	-.05417	-.45491	.45793	.10566	.01951	.00333	.00026	-.00097
45.000	12.000	.59278	4.00000	-.15068	-.45507	.57321	.13736	.02353	.00502	-.00031	-.00079
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59188	.00000	-.00194	-.52363	.38467	.08011	.01369	.00281	.00072	-.00119
50.000	10.000	.59167	2.00000	-.01316	-.48819	.47247	.10625	.01912	.00334	.00020	-.00111
50.000	12.000	.59268	4.00000	-.09422	-.46192	.57618	.13800	.02278	.00457	-.00047	-.00073
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNH010)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
3.500	8.000	.59528	.00000	-.14459	.39993	.40170	.08360	.02338	.00454	-.00125	.00101
3.500	10.000	.59463	2.00000	-.03459	.71214	.45638	.10105	.02802	.00401	-.00132	.00035
3.500	12.000	.59120	4.00000	-.02236	.67475	.53935	.12530	.03345	.00502	-.00095	.00020
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
7.500	8.000	.59524	.00000	-.13105	-.08072	.39869	.08465	.02119	.00349	-.00112	.00089
7.500	10.000	.59624	2.00000	-.03201	.11391	.46891	.10196	.02634	.00390	-.00104	.00043
7.500	12.000	.59500	4.00000	-.05084	.13091	.54590	.12793	.03153	.00515	-.00074	-.00027
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
10.000	8.000	.59458	.00000	-.14457	-.40700	.39577	.08523	.01947	.00291	-.00100	.00087
10.000	10.000	.59782	2.00000	-.02622	-.40185	.47103	.10259	.02514	.00396	-.00074	.00054
10.000	10.000	.59822	4.00000	-.07409	-.29551	.55078	.12984	.03018	.00532	-.00050	.00033
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
15.000	8.000	.59542	.00000	-.13299	-.36917	.39708	.08581	.01834	.00241	-.00116	.00073
15.000	10.000	.59651	2.00000	-.02739	-.37159	.47153	.10340	.02370	.00322	-.00105	.00034
15.000	12.000	.59752	4.00000	-.07079	-.40978	.55541	.13157	.02849	.00490	-.00087	-.00038
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CBL	CYN
30.000	8.000	.59671	.00000	-.10394	-.51761	.39814	.08756	.01613	.00178	-.00126	.00065
30.000	10.000	.59659	2.00000	-.08266	-.47056	.48257	.10653	.02148	.00310	-.00105	.00015
30.000	12.000	.59605	4.00000	-.11834	-.46531	.57413	.13672	.02569	.00399	-.00074	.00045
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ZNH010

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNH010)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 8.000	DX = .000	
DY = .000	MACH = .600	

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59578	.00000	-.10371	-.43686	.39755	.08839	.01507	.00167	.00064	-.00122
45.000	10.000	.59641	2.00000	-.10516	-.42721	.43091	.10540	.02014	.00350	.00019	-.00078
45.000	12.000	.59539	4.00000	-.19518	-.47170	.58585	.13991	.02371	.00382	-.00037	-.00087
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59362	.00000	-.01092	-.44117	.39498	.08871	.01439	.00159	.00068	-.00112
50.000	10.000	.59473	2.00000	-.00946	-.48167	.48703	.10815	.01928	.00351	.00020	-.00087
50.000	12.000	.59456	4.00000	-.12097	-.53064	.58921	.14076	.02312	.00395	.00038	-.00075
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ZNH011

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNH011)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 4.000	DX = .000	
DY = .000	MACH = .600	

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.59330	.00000	-.09497	-.17585	.18458	.06138	.01110	.00271	.00104	-.00070
3.500	6.000	.59263	2.00000	-.03266	-.18204	.24155	.06643	.01691	.00307	.00111	-.00061
3.500	8.000	.59218	4.00000	-.08058	-.19776	.29814	.07438	.02408	.00274	.00096	-.00068
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.59408	.00000	-.21947	-.11285	.19032	.06179	.00828	.00282	.00117	-.00070
7.500	6.000	.59178	2.00000	.10724	-.22680	.24803	.06739	.01423	.00286	.00108	-.00081
7.500	8.000	.59253	4.00000	-.05587	-.22635	.30591	.07568	.02153	.00351	.00111	-.00095
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHO11)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.59257	-.14626	.00000	-.15718	.19093	.06223	.00680	.00341	.00124	-.00082
10.000	6.000	.59162	.07409	.00000	-.23642	.25074	.06803	.01297	.00305	.00114	-.00081
10.000	8.000	.59123	.01922	.00000	-.24434	.30882	.07631	.02055	.00310	.00103	-.00093
10.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.59363	-.12417	.00000	-.15353	.19260	.06344	.00492	.00367	.00134	-.00091
15.000	6.000	.59363	-.01486	2.00000	-.23552	.25400	.06910	.01140	.00340	.00130	-.00082
15.000	8.000	.59510	-.13120	4.00000	-.20103	.31615	.07779	.01977	.00321	.00111	-.00093
15.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.59535	-.13025	.00000	-.16001	.19275	.06502	.00226	.00280	.00120	-.00107
30.000	6.000	.59468	-.13397	2.00000	-.23880	.26263	.07195	.00921	.00213	.00102	-.00098
30.000	8.000	.59389	-.12946	4.00000	-.23699	.33510	.08167	.01803	.00284	.00100	-.00113
30.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.59326	-.07470	.00000	-.23397	.19290	.06644	.00068	.00218	.00108	-.00101
45.000	6.000	.59326	-.21255	2.00000	-.28003	.27317	.07354	.00805	.00207	.00101	-.00092
45.000	8.000	.59271	-.14676	4.00000	-.22929	.35252	.08441	.01670	.00259	.00095	-.00105
45.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.59237	-.06933	.00000	-.25594	.19283	.06700	.00016	.00203	.00106	-.00096
50.000	6.000	.59276	-.24487	2.00000	-.29421	.27704	.07396	.00772	.00221	.00106	-.00088
50.000	8.000	.59289	-.17650	4.00000	-.20810	.35823	.08522	.01632	.00257	.00096	-.00099
50.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI O2SI (ORBITER DATA)   (ZNH013)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100	IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125					

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO.   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ		ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500		6.000	.59330	.00000	-.02265	-.52888	.29838	.07128	.01711	.00186	.00101	-.00044
3.500		8.000	.59492	2.00000	-.03416	-.45886	.35121	.08002	.02524	.00293	.00106	-.00044
3.500		10.000	.59390	4.00000	-.06456	-.53850	.41304	.09443	.03232	.00268	.00081	-.00046
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ		ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500		6.000	.59143	.00000	-.14594	-.42355	.29525	.07151	.01390	.00206	.00111	-.00046
7.500		8.000	.59273	2.00000	-.03204	-.49988	.35221	.08048	.02250	.00237	.00104	-.00059
7.500		10.000	.59233	4.00000	-.03940	-.51321	.41977	.09567	.02940	.00234	.00078	-.00057
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ		ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000		6.000	.59144	.00000	-.18620	-.44808	.29537	.07176	.01306	.00243	.00122	-.00061
10.000		8.000	.59173	2.00000	-.00336	-.58353	.35337	.08063	.02188	.00184	.00094	-.00069
10.000		10.000	.59203	4.00000	-.07451	-.59846	.42175	.09609	.02863	.00246	.00073	-.00072
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ		ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000		6.000	.59111	.00000	-.11818	-.47005	.29399	.07232	.01167	.00199	.00106	-.00067
15.000		8.000	.59100	2.00000	-.09841	-.49785	.35515	.08195	.02019	.00184	.00092	-.00071
15.000		10.000	.59097	4.00000	-.01302	-.52853	.42557	.09760	.02694	.00224	.00064	-.00085
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ		ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000		6.000	.59008	.00000	-.13269	-.45772	.29519	.07378	.00957	.00211	.00101	-.00101
30.000		8.000	.59033	2.00000	-.02128	-.53834	.36502	.08407	.01849	.00182	.00085	-.00096
30.000		10.000	.59054	4.00000	-.08049	-.50667	.44301	.10127	.02476	.00299	.00065	-.00097
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNH013)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA				
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000		STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000		ELEVON = 5.000		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 6.000		DX = .000		
SCALE = .0125				DY = .000		MACH = .600		

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.59017	.00000	-.01960	-.53810	.29372	.07465	.00866	.00127	.00098	-.00068
45.000	8.000	.59079	2.00000	-.05543	-.53705	.36866	.08519	.01724	.00143	.00086	-.00087
45.000	10.000	.59103	4.00000	-.08046	-.55385	.45269	.10364	.02296	.00209	.00051	-.00079
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.59036	.00000	.02183	-.48797	.29206	.07532	.00789	.00131	.00098	-.00064
50.000	8.000	.59152	2.00000	-.18551	-.52602	.36978	.08628	.01642	.00135	.00090	-.00066
50.000	10.000	.59141	4.00000	-.18359	-.56621	.45785	.10490	.02222	.00215	.00054	-.00056
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNH020)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA				
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000		STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000		ELEVON = .000		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 4.000		DX = .000		
SCALE = .0125				DY = .000		MACH = .600		

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58802	.00000	-.05223	-.26345	.11198	.05485	.04559	.00274	.00074	-.00107
3.500	6.000	.58859	2.00000	-.02453	-.45158	.16309	.05660	.05006	.00314	.00079	-.00122
3.500	8.000	.58835	4.00000	-.08535	-.29278	.22196	.06184	.05735	.00355	.00083	-.00104
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58707	.00000	-.10972	-.44775	.12113	.05545	.04303	.00262	.00076	-.00120
7.500	6.000	.58741	2.00000	-.06673	-.37930	.16475	.05733	.04732	.00328	.00084	-.00121
7.500	8.000	.58730	4.00000	-.06510	-.36577	.22543	.06251	.05533	.00390	.00084	-.00119
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)

(ZNH020)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58804	.00000	-.10786	-.36690	.12236	.05595	.04178	.00358	.00091	-.00142
10.000	6.000	.58923	2.00000	-.06237	-.29638	.17199	.05793	.04670	.00389	.00090	-.00146
10.000	8.000	.59037	4.00000	-.07726	-.38358	.22755	.06313	.05431	.00402	.00095	-.00117
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58762	.00000	-.06338	-.37890	.12325	.05637	.03989	.00302	.00078	-.00155
15.000	6.000	.58706	2.00000	-.07556	-.40109	.17523	.05896	.04495	.00319	.00083	-.00140
15.000	8.000	.58649	4.00000	-.05904	-.39269	.23587	.06470	.05349	.00323	.00076	-.00121
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58719	.00000	-.10103	-.37297	.12132	.05796	.03698	.00264	.00073	-.00163
30.000	6.000	.58734	2.00000	-.11109	-.40675	.18397	.06126	.04283	.00221	.00064	-.00147
30.000	8.000	.58789	4.00000	-.11348	-.37248	.25225	.06779	.05200	.00278	.00062	-.00150
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58474	.00000	.03140	-.36765	.11969	.05852	.03550	.00219	.00070	-.00147
45.000	6.000	.58577	2.00000	-.14937	-.36932	.18963	.06236	.04137	.00228	.00066	-.00155
45.000	8.000	.58632	4.00000	-.11437	-.44889	.26533	.06967	.05095	.00264	.00057	-.00147
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58364	.00000	.09589	-.37556	.11932	.05859	.03505	.00190	.00067	-.00139
50.000	6.000	.58607	2.00000	-.16317	-.37271	.19085	.06265	.04080	.00229	.00068	-.00154
50.000	8.000	.58546	4.00000	-.10503	-.48330	.26983	.07025	.05064	.00253	.00054	-.00144
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 0/ 0

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.59024	.00000	.02471	-.20532	.10797	.05294	.04687	.00323	.00082	-.00108
3.500	6.000	.58971	2.00000	.07777	-.17981	.16375	.05511	.05152	.00372	.00085	-.00112
3.500	8.000	.58927	4.00000	-.02834	-.15655	.22356	.06061	.05916	.00352	.00075	-.00107
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58967	.00000	-.16238	-.18138	.10648	.05336	.04400	.00376	.00093	-.00131
7.500	6.000	.59009	2.00000	.13195	-.10900	.16613	.05582	.04896	.00340	.00085	-.00115
7.500	8.000	.59008	4.00000	.02309	-.14147	.22646	.06138	.05694	.00331	.00072	-.00118
GRADIENT		.06000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.59002	.00000	-.11657	-.13444	.10590	.05374	.04231	.00327	.00082	-.00134
10.000	6.000	.58974	2.00000	.06359	-.22685	.16900	.05628	.04784	.00355	.00093	-.00122
10.000	8.000	.59026	4.00000	-.02995	-.20624	.22971	.06202	.05608	.00307	.00067	-.00122
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.59003	.00000	-.15742	-.19366	.11262	.05453	.04093	.00320	.00076	-.00167
15.000	6.000	.59012	2.00000	.06634	-.22289	.17405	.05748	.04643	.00280	.00072	-.00138
15.000	8.000	.59019	4.00000	-.05518	-.13890	.23664	.06357	.05494	.00320	.00070	-.00122
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58959	.00000	-.06336	-.20571	.11378	.05632	.03787	.00239	.00071	-.00144
30.000	6.000	.58978	2.00000	.09323	-.24167	.18482	.05996	.04401	.00252	.00068	-.00160
30.000	8.000	.58903	4.00000	-.04123	-.24788	.25452	.06703	.05315	.00283	.00064	-.00138
GRADIENT		.00000		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNH021) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = -1.000		
RUDDER = .000	ELEVON = .000		
IORB = 4.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58957	.00000	-.02796	-.28104	.1495	.05757	.03640	.00142	.00061	-.00131
45.000	5.000	.58926	2.00000	-.10861	-.27460	.19654	.06166	.04288	.00181	.00058	-.00157
45.000	8.000	.58944	4.00000	-.16285	-.17509	.26895	.06917	.05218	.00189	.00062	-.00123
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58947	.00000	-.03023	-.32597	.11588	.05797	.03604	.00110	.00058	-.00131
50.000	6.000	.58885	2.00000	-.18927	-.26854	.20065	.06219	.04259	.00148	.00051	-.00155
50.000	8.000	.58978	4.00000	-.21103	-.11324	.27355	.06981	.05191	.00155	.00062	-.00115
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNH022) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 8.000	DX = .000		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58937	.00000	-.16255	.01217	.31589	.06744	.06048	.00245	.00056	-.00124
3.500	10.000	.58507	2.00000	-.01165	-.22915	.38219	.08089	.06746	.00330	.00056	-.00106
3.500	12.000	.58421	4.00000	-.13636	-.25636	.45310	.10211	.07406	.00340	.00014	-.00058
GRADIENT	.00000	.00000	.00000	.03000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58758	.00000	-.18018	-.11484	.31793	.06915	.05834	.00284	.00060	-.00133
7.500	10.000	.58659	2.00000	-.06165	-.19164	.38278	.08217	.06582	.00340	.00048	-.00131
7.500	12.000	.58630	4.00000	-.12718	-.21784	.45956	.10429	.07196	.00411	.00020	-.00089
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH022)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2500.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6900 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58709	.00000	-.19173	-.20231	.22011	.07039	.05681	.00334	.00067	-.00141
10.000	10.000	.58728	2.00000	-.07957	.14578	.23290	.08312	.06449	.00367	.00045	-.00155
10.000	12.000	.58773	4.00000	-.13368	-.16640	.45425	.10593	.07035	.00454	-.00030	-.00115
GRADIENT		.00000	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58694	.00000	-.18748	-.23899	.31563	.07053	.05523	.00217	.00046	-.00146
15.000	10.000	.58647	2.00000	-.13443	-.18170	.38564	.08369	.06382	.00273	.00029	-.00137
15.000	12.000	.58681	4.00000	-.07010	-.20146	.46909	.10736	.06922	.00536	-.00011	-.00116
GRADIENT		.00000	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58879	.00000	-.10260	-.12441	.31691	.07199	.05339	.00255	.00051	-.00153
30.000	10.000	.58798	2.00000	-.07780	-.12012	.39233	.08559	.06151	.00279	.00024	-.00180
30.000	12.000	.58967	4.00000	-.15887	-.18301	.48784	.11276	.06646	.00434	-.00028	-.00130
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58810	.00000	-.03873	-.20232	.31379	.07261	.05163	.00206	.00048	-.00152
45.000	10.000	.58849	2.00000	-.04281	-.22602	.39693	.08689	.05385	.00213	.00019	-.00149
45.000	12.000	.58317	4.00000	-.15934	-.17723	.53009	.11560	.06419	.00394	-.00027	-.00119
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58785	.00000	-.00173	-.19668	.31246	.07277	.05115	.00229	.00059	-.00144
50.000	10.000	.58925	2.00000	.00201	-.25501	.39580	.08720	.05927	.00215	.00021	-.00145
50.000	12.000	.58942	4.00000	-.11080	-.16164	.43942	.11598	.06330	.00420	-.00018	-.00124
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 ATI 02SI　(ORBITER DATA)　　　(ZNH023)　(17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF =	936.5800 IN.	ZMRP =	375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE =	.0125			DY = .000	MACH = .600

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.58722	.00000	-.10448	-.22757	.22257	.05952	.05053	.00315	.00076	-.00091
3.500	8.000	.58696	2.00000	-.14791	-.26402	.27397	.06581	.05978	.00319	.00068	-.00101
3.500	10.000	.58675	4.00000	-.09563	-.31779	.33357	.07670	.06929	.00360	.00054	-.00125
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58592	.00000	-.12617	-.26758	.22148	.05974	.04807	.00303	.00075	-.00115
7.500	8.000	.58772	2.00000	-.02447	-.21541	.27644	.06605	.05775	.00306	.00066	-.00111
7.500	10.000	.58744	4.00000	-.05141	-.25423	.33642	.07755	.06670	.00301	.00038	-.00138
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.58720	.00000	-.08080	-.32093	.21968	.05996	.04695	.00279	.00073	-.00115
10.000	8.000	.58738	2.00000	.03240	-.29826	.27487	.06637	.05666	.00335	.00066	-.00130
10.000	10.000	.58743	4.00000	-.01548	-.31715	.34068	.07819	.06614	.00324	.00041	-.00144
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.58887	.00000	-.08769	-.27717	.21864	.06052	.04558	.00285	.00080	-.00112
15.000	8.000	.58732	2.00000	.04181	-.32458	.28273	.06735	.05661	.00271	.00051	-.00139
15.000	10.000	.58698	4.00000	-.05553	-.31952	.34368	.07934	.06487	.00322	.00039	-.00144
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　　0/ 0　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.58737	.00000	-.13357	-.26229	.21781	.06172	.04322	.00241	.00071	-.00132
30.000	8.000	.58778	2.00000	-.01156	-.20880	.28312	.06920	.05344	.00267	.00062	-.00138
30.000	10.000	.58784	4.00000	-.12743	-.26464	.36246	.08321	.06277	.00296	.00029	-.00153
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNH023)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.58641	.00000	.02545	-.31603	.21689	.06271	.04193	.00182	.00059	-.00141
45.000	8.000	.58821	2.00000	-.10675	-.27867	.29012	.07069	.05219	.00191	.00045	-.00130
45.000	10.000	.58901	4.00000	-.15959	-.27362	.37463	.08556	.06099	.00236	.00017	-.00135
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58729	.00000	.06326	-.39692	.21499	.06313	.04166	.00191	.00062	-.00126
50.000	8.000	.58809	2.00000	-.12785	-.35762	.29169	.07114	.05209	.00219	.00052	-.00137
50.000	10.000	.58923	4.00000	-.17777	-.33684	.37701	.08636	.06053	.00214	.00022	-.00125
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (ZNH024)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.58656	.00000	-.15710	-.05439	.21814	.05847	.05061	.00322	.00075	-.00121
3.500	8.000	.58594	2.00000	-.05661	-.04203	.27322	.06437	.06040	.00380	.00071	-.00112
3.500	10.000	.58738	4.00000	-.07286	-.01917	.33132	.07510	.06962	.00327	.00042	-.00137
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58752	.00000	-.15273	-.13760	.21899	.05878	.04859	.00330	.00078	-.00123
7.500	8.000	.58737	2.00000	-.02438	-.07570	.27358	.06494	.05790	.00383	.00078	-.00115
7.500	10.000	.58739	4.00000	-.04246	-.02463	.33503	.07630	.06737	.00373	.00049	-.00146
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)　747/1 ATI 02S1 (ORBITER DATA)　　　(ZNH024)　　(17 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000　STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000　ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000　DX = .000
SCALE = .0125		DY = .000　MACH = .600

RUN NO.　0/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.58782	.00000	-.18388	-.04983	.21860	.05915	.04761	.00261	.00073	-.00113
10.000	8.000	.58743	2.00000	-.00854	-.02874	.27490	.06527	.05750	.00357	.00073	-.00119
10.000	10.000	.58754	4.00000	-.07576	-.07593	.33555	.07673	.06649	.00318	.00040	-.00152
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.58604	.00000	-.10235	-.01767	.21528	.05977	.04584	.00289	.00076	-.00135
15.000	8.000	.58610	2.00000	.05297	-.02567	.27530	.06595	.05588	.00275	.00059	-.00137
15.000	10.000	.58742	4.00000	.00257	.04641	.34261	.07805	.06523	.00354	.00046	-.00171
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.58757	.00000	-.09908	-.05168	.21878	.06145	.04353	.00258	.00069	-.00153
30.000	8.000	.58751	2.00000	-.03402	-.00815	.28555	.06859	.05389	.00249	.00049	-.00156
30.000	10.000	.58750	4.00000	-.11321	-.04740	.36139	.08238	.06301	.00348	.00033	-.00171
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.58595	.00000	.01170	-.06028	.21643	.06260	.04202	.00179	.00057	-.00150
45.000	8.000	.58569	2.00000	-.14933	-.07757	.29153	.07037	.05242	.00223	.00044	-.00170
45.000	10.000	.58677	4.00000	-.17441	-.15908	.37290	.08486	.06077	.00275	.00029	-.00157
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.32　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58618	.00000	.03737	-.02820	.21827	.06291	.04173	.00195	.00054	-.00166
50.000	8.000	.58655	2.00000	-.18265	-.01953	.29405	.07071	.05211	.00244	.00048	-.00166
50.000	10.000	.58739	4.00000	-.13851	-.08646	.37530	.08530	.06016	.00218	.00022	-.00150
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

APC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (ZNH025)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
3.500	8.000	.58688	.00000	-.08582	.31304	.06702	.05902	.17360	.00453	.00091	-.00090
3.500	10.000	.58953	2.00000	-.14166	.33157	.08021	.06701	-.01841	.00370	.00053	-.00100
3.500	12.000	.58754	4.00000	-.05494	.44195	.09871	.07305	-.02214	.00445	.00017	-.00144
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
7.500	8.000	.58725	.00000	-.09264	.31324	.06765	.05762	.11948	.00380	.00073	-.00128
7.500	10.000	.58832	2.00000	-.09157	.37663	.08042	.06533	.02817	.00332	.00043	-.00127
7.500	12.000	.59763	4.00000	-.06110	.44998	.10134	.07157	.00034	.00456	.00002	-.00130
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
10.000	8.000	.58784	.00000	-.09040	.31397	.06802	.05658	.08861	.00307	.00059	-.00151
10.000	10.000	.58815	2.00000	-.03781	.37131	.08043	.06384	.05364	.00289	.00036	-.00138
10.000	12.000	.58774	4.00000	-.06054	.45594	.10338	.07046	.03091	.00487	-.00015	-.00117
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
15.000	8.000	.56598	.00000	-.11995	.31176	.06865	.05539	.04068	.00369	.00064	-.00166
15.000	10.000	.58823	2.00000	-.06631	.37832	.08142	.06351	.03239	.00360	.00041	-.00183
15.000	12.000	.58759	4.00000	-.08560	.46087	.10455	.06939	-.02535	.00410	.00024	-.00127
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
30.000	8.000	.58725	.00000	-.13458	.31250	.07046	.05296	.04159	.00295	.00056	-.00162
30.000	10.000	.59915	2.00000	-.11840	.38439	.08417	.06119	.01715	.00308	.00036	-.00148
30.000	30.000	.58844	4.00000	-.17807	.47982	.11039	.06634	-.03594	.00399	-.00023	-.00108
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNH025)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO		BETA =	.000	STAB =	-1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO		RUDDER =	.000	ELEVON =	.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		IORB =	8.000	DX =	.000
SCALE =	.0125				DY	.000	MACH =	.600

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	CL	DY	CD	CY	CLM	CYN	CBL
45.000	8.000	.58850	-.05870	.31148	-.01594	.07153	.00272	.05122	.00055	-.00154
45.000	10.000	.58832	-.09865	.39258	.01874	.08597	.00277	.05944	.00027	-.00160
45.000	12.000	.58778	-.17449	.49548	.00419	.11407	.00363	.06403	-.00026	-.00099
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	CL	DY	CD	CY	CLM	CYN	CBL
50.000	8.000	.58749	.01451	.31205	-.04207	.07193	.00223	.05064	.00055	-.00129
50.000	10.000	.58818	-.07501	.39601	.01766	.08674	.00263	.05312	.00025	-.00146
50.000	12.000	.58720	-.18335	.49858	.05471	.11484	.00396	.06351	-.00019	-.00112
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (ZNH027)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO		BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO		RUDDER =	.000	ELEVON =	.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO		IORB =	8.000	DX =	.000
SCALE =	.0125				DY	.000	MACH =	.600

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	CL	DY	CD	CY	CLM	CYN	CBL
3.500	8.000	.58488	-.04747	.31755	.07762	.05216	.00585	.04502	-.00006	-.00211
3.500	10.000	.58749	-.16311	.38604	.16832	.06477	.00880	.05354	.00027	-.00255
3.500	12.000	.58723	-.20081	.45945	.04725	.08486	.00823	.06000	-.00105	-.00216
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	CL	DY	CD	CY	CLM	CYN	CBL
7.500	8.000	.58594	-.11490	.31843	.07994	.05214	.00702	.04262	-.00009	-.00224
7.500	10.000	.58694	-.10494	.38576	.09838	.06480	.00798	.05100	-.00005	-.00233
7.500	12.000	.58659	-.14418	.46349	.05239	.08597	.00872	.05605	-.00099	-.00222
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA   (ZNH027)   (17 OCT 75)

BETA = .000	STAB = .000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = 8.000
DY = .000	MACH = .600

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00   0/ 0

DZ	RUN NO. MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.58659	8.000	.00000	-.15926	.08776	.3963	.05221	.04051	.00781	-.00002	-.00231
10.000	.58622	10.000	2.00000	-.06494	.04699	.38599	.06500	.04892	.00702	-.00024	-.00206
10.000	.58595	12.000	4.00000	-.07448	.06433	.46553	.08665	.05287	.00885	-.00083	-.00227
10.000	GRADIENT .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00   0/ 0

DZ	RUN NO. MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58657	8.000	.00000	-.17151	.04284	.31725	.05162	.03908	.00810	-.00048	-.00255
15.000	.58706	10.000	2.00000	-.09136	.04109	.38632	.06454	.04773	.00816	-.00072	-.00251
15.000	.58624	12.000	4.00000	-.13410	.04469	.47178	.08809	.05162	.01046	-.00121	-.00225
15.000	GRADIENT .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00   0/ 0

DZ	RUN NO. MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	.58635	8.000	.00000	-.13749	.03346	.32024	.05382	.03508	.00830	-.00036	-.00273
30.000	.58528	10.000	2.00000	-.10994	.06309	.39464	.06747	.04392	.00805	-.00064	-.00244
30.000	.58570	12.000	4.00000	-.12824	.02846	.49110	.09335	.04808	.01003	-.00121	-.00230
30.000	GRADIENT .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00   0/ 0

DZ	RUN NO. MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	.58545	8.000	.00000	-.07774	.00509	.32204	.05479	.03409	.00778	-.00052	-.00264
45.000	.58604	10.000	2.00000	-.08593	.00027	.40193	.06919	.04334	.00814	-.00064	-.00269
45.000	.58548	12.000	4.00000	-.16505	-.00382	.50403	.09638	.04625	.00952	-.00120	-.00226
45.000	GRADIENT .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00   0/ 0

DZ	RUN NO. MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	.58502	8.000	.00000	-.04402	.04160	.31601	.05499	.03250	.00815	-.00034	-.00262
50.000	.58552	10.000	2.00000	-.10236	.05879	.40083	.06938	.04220	.00829	-.00063	-.00260
50.000	.58532	12.000	4.00000	-.16359	.07356	.50748	.09742	.04573	.00937	-.00122	-.00217
50.000	GRADIENT .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

(ZNH034)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
1ORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.000	.58836	-.09135	.00000	-.01652	.22059	.04049	.03834	.00872	-.00048	-.00197
3.500	8.000	.58780	.17907	2.00000	-.08260	.27436	.04658	.04791	.00923	-.00024	-.00213
3.500	10.000	.58729	.00698	4.00000	-.01949	.32858	.05678	.05811	.00915	-.00052	-.00259
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.000	.58714	-.10221	.00000	-.02782	.22249	.04105	.03335	.00901	-.00047	-.00226
7.500	8.000	.58690	.05748	2.00000	-.04403	.27928	.04741	.04351	.00867	-.00052	-.00226
7.500	10.000	.58754	-.00159	4.00000	-.04800	.33713	.05790	.05363	.00859	-.00065	-.00266
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.000	.58771	-.09950	.00000	-.02445	.22249	.04094	.03094	.00867	-.00043	-.00240
10.000	8.000	.58687	.05662	2.00000	-.03676	.27866	.04780	.04135	.00861	-.00050	-.00230
10.000	10.000	.58669	-.03795	4.00000	-.06593	.34123	.05864	.05189	.00851	-.00071	-.00276
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.000	.58751	-.08943	.00000	-.05005	.22198	.04167	.02750	.00856	-.00056	-.00238
15.000	8.000	.58668	.05600	2.00000	-.05788	.28256	.04839	.03838	.00864	-.00062	-.00244
15.000	10.000	.58727	-.05445	4.00000	-.07621	.34570	.05986	.04896	.00864	-.00064	-.00269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	DX	ALPHAC	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.000	.58634	-.05173	.00000	-.05569	.22516	.04341	.02487	.00875	-.00052	-.00270
30.000	8.000	.58733	.02490	2.00000	-.04001	.29348	.05096	.03716	.00885	-.00046	-.00260
30.000	10.000	.58711	-.07390	4.00000	-.09332	.36657	.06380	.04669	.00838	-.00095	-.00279
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNH034)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.000	.58727	.00000	-.01533	-.05004	.23395	.04281	.02348	.00782	-.00077	-.00266
45.000	9.000	.58711	2.00000	-.12592	-.06051	.29739	.05231	.03553	.00811	-.00069	-.00266
45.000	10.000	.58752	4.00000	-.15392	.00100	.37875	.06628	.04530	.00797	-.00096	-.00249
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.000	.58796	.00000	.05894	.01188	.22195	.04419	.02306	.00775	-.00063	-.00235
50.000	8.000	.58812	2.00000	-.14432	-.02287	.29975	.05249	.03528	.00800	-.00058	-.00257
50.000	10.000	.58765	4.00000	-.16747	-.05059	.38170	.06693	.04512	.00833	-.00083	-.00267
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNH035)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58695	.00000	-.07973	.05157	.11481	.03600	.02780	.00754	-.00010	-.00205
3.500	6.000	.58770	2.00000	-.01108	.10413	.17249	.03858	.03437	.00724	-.00013	-.00195
3.500	8.000	.58780	4.00000	-.03882	.03346	.23150	.04434	.04281	.00688	-.00018	-.00200
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58699	.00000	-.16588	.05294	.11820	.03655	.02242	.00729	-.00004	-.00214
7.500	6.000	.58732	2.00000	-.07436	.05716	.17817	.03903	.02937	.00710	-.00002	-.00203
7.500	8.000	.58723	4.00000	-.00439	.06897	.23795	.04530	.03810	.00639	-.00021	-.00209
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA) (ZNH035) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	.000	5.000
RUDDER =	.000	ELEVON =	.000	.000
IORB =	4.000	DX =	.000	.000
DY =	.000	MACH =	.000	.500

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58779	.00000	-.07609	.12369	.12330	.03675	.02020	.00704	.00010	-.00210
10.000	6.000	.58794	2.00000	.10970	.05689	.18680	.03951	.02759	.00705	.00008	-.00216
10.000	8.000	.58841	4.00000	.00020	-.07970	.24661	.04598	.03712	.00665	.00008	-.00225
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58849	.00000	-.17434	.06725	.12580	.03745	.01751	.00702	.00000	-.00239
15.000	6.000	.58824	2.00000	-.06427	.07796	.19044	.04068	.02525	.00669	-.00029	-.00234
15.000	8.000	.58819	4.00000	-.07067	.01371	.25217	.04725	.03499	.00651	-.00016	-.00219
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58969	.00000	-.07086	.09940	.12646	.03888	.01418	.00646	-.00011	-.00232
30.000	6.000	.58898	2.00000	-.10285	.05238	.20053	.04305	.02271	.00662	-.00013	-.00232
30.000	8.000	.58898	4.00000	-.16552	.05946	.27027	.05066	.03392	.00605	-.00035	-.00230
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58793	.00000	.04568	.10000	.13089	.03936	.01345	.00586	-.00036	-.00224
45.000	6.000	.58837	2.00000	-.13136	-.04855	.23489	.04460	.02163	.00557	-.00044	-.00230
45.000	8.000	.58980	4.00000	-.19234	.00955	.28194	.05279	.03281	.00554	-.00057	-.00244
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58712	.00000	.05959	.08025	.13259	.04016	.01327	.00566	-.00048	-.00227
50.000	6.000	.58810	2.00000	-.16166	.05529	.20550	.04505	.02131	.00511	-.00063	-.00230
50.000	8.000	.58850	4.00000	-.20141	-.03100	.28480	.05341	.03226	.00536	-.00066	-.00248
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 0351 (ORBITER DATA)   (ZNH036)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 361/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	7.903	.58715	2.00000	-.05230	.19679	.27133	.04740	.04804	.00914	-.00062	-.00217
2.000	10.016	.58790	4.00000	-.19095	.23177	.32816	.05814	.05865	.00906	-.00067	-.00269
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 362/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.096	.58749	2.00000	-.13248	.15931	.28277	.04901	.04746	.00858	-.00050	-.00225
3.500	9.922	.58652	4.00000	-.06137	.16359	.33033	.05820	.05604	.00917	-.00043	-.00256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 363/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.104	.58730	2.00000	-.10972	.22874	.29056	.04957	.04302	.00929	-.00019	-.00247
7.500	9.932	.58642	4.00000	-.06044	.19517	.34017	.05939	.05135	.00914	-.00043	-.00287
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 364/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.096	.58578	2.00000	-.12131	.20959	.28988	.04992	.04029	.00933	-.00005	-.00240
10.000	9.970	.58622	4.00000	-.05214	.17741	.34493	.06043	.04939	.00870	-.00047	-.00272
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 365/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.062	.58596	2.00000	-.09652	.20626	.29245	.05072	.03803	.00915	-.00021	-.00236
15.000	9.922	.58533	4.00000	-.03300	.14240	.35126	.06161	.04706	.00888	-.00046	-.00280
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 365/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.093	.58552	2.00000	-.17938	.18027	.30570	.05290	.03616	.00851	-.00040	-.00262
30.000	9.966	.58513	4.00000	-.15382	.12485	.37249	.06587	.04464	.00879	-.00059	-.00293
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ZNHO36)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		STAB = .000		BETA = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		ELEVON = 10.000		RUDDER = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		DX = 6.000		IORB = .000
SCALE = .0125			MACH = .000		DY = .600

RUN NO. 367/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	.58536	8.118	2.00000	-.12773	.16996	.33734	.05507	.03392	.00842	-.00042	-.00250
45.000	.58620	9.974	4.00000	-.10214	.15528	.33232	.06840	.04319	.00880	-.00060	-.00269
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 368/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	.58475	8.072	2.00000	-.04440	.16650	.30410	.05512	.03272	.00836	-.00028	-.00237
50.000	.58452	9.962	4.00000	-.09832	.15991	.38762	.06943	.04244	.00857	-.00078	-.00264
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 369/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	.58490	8.098	2.00000	-.01489	.14432	.31216	.05561	.03331	.00814	-.00023	-.00247
60.000	.58408	9.963	4.00000	-.05197	.13629	.39004	.07011	.04158	.00848	-.00063	-.00260
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ZNHO37)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		STAB = .000		BETA = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		ELEVON = .000		RUDDER = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		DX = 6.000		IORB = .000
SCALE = .0125			MACH = .000		DY = .600

RUN NO. 371/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	.58985	5.775	.00000	-.11180	.10330	.21229	.04009	.03820	.00809	-.00014	-.00176
2.000	.59004	7.930	2.00000	-.08329	.07589	.26910	.04675	.04954	.00770	-.00043	-.00210
2.000	.59071	9.942	4.00000	-.11084	.06050	.32436	.05843	.05931	.00816	-.00052	-.00228
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-1201CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (ZNH037)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 372/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	.59018	6.184	.00000	-.13502	.15768	.22978	.04194	.03876	.00931	.00012	-.00206
3.500	.59038	7.923	2.00000	.10093	.14028	.28819	.04657	.04751	.00853	-.00024	-.00212
3.500	.59033	9.915	4.00000	.04498	.13338	.30421	.05636	.05718	.00873	.00025	-.00235
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 373/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	.58950	6.130	.00000	-.07039	.09754	.22874	.04178	.03262	.00882	-.00012	-.00226
7.500	.58960	7.940	2.00000	.05849	.13412	.27509	.04715	.04278	.00906	-.00002	-.00239
7.500	.58902	9.945	4.00000	-.01620	.06583	.32595	.05782	.05296	.00825	-.00044	-.00280
	.06000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 374/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.58846	6.172	.00000	-.11295	.09917	.23251	.04217	.03080	.00862	-.00020	-.00221
10.000	.58936	7.932	2.00000	.06036	.12215	.27349	.04730	.04033	.00784	-.00022	-.00226
10.000	.58870	9.931	4.00000	-.01932	.10589	.33006	.05842	.05071	.00803	-.00043	-.00274
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 375/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58908	6.191	.00000	-.14564	.13277	.25524	.04261	.02796	.00855	-.00012	-.00232
15.000	.58978	7.927	2.00000	.04444	.06929	.27616	.04824	.03726	.00857	-.00019	-.00244
15.000	.58882	9.914	4.00000	-.02656	.07398	.34191	.05951	.04770	.00780	-.00064	-.00267
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 376/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	MACH	ALPHAO	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	.58881	6.149	.00000	-.12512	.12170	.23396	.04426	.02433	.00812	-.00023	-.00247
30.000	.58820	7.943	2.00000	-.02204	.11609	.28703	.05083	.03502	.00809	-.00024	-.00247
30.000	.58887	9.949	4.00000	-.13625	.08909	.36445	.06418	.04567	.00813	-.00055	-.00255
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 035 (ORBITER DATA)   (ZNH037)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB = -1.000
RUDDER =	.000	ELEVON = .000
IORB =	6.000	DX = .000
DY =		MACH = .600

RUN NO. 377/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.168	.58833	.00000	-.06037	.07487	.22558	.04503	.02208	.00789	-.00040	-.00255
45.000	7.947	.58991	2.00000	-.25014	.08152	.29544	.05241	.03466	.00809	-.00034	-.00261
45.000	9.954	.58898	4.00000	-.12897	.11615	.37912	.06667	.04424	.00804	-.00071	-.00257
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 378/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.177	.58795	.00000	-.01302	.05306	.23635	.04549	.02247	.00760	-.00037	-.00245
50.000	7.977	.58783	2.00000	-.23513	.12658	.29763	.05313	.03379	.00781	-.00038	-.00238
50.000	9.944	.58783	4.00000	-.21663	.11732	.37992	.06743	.04346	.00759	-.00083	-.00237
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 379/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	6.130	.58741	.00000	-.11953	.10470	.23543	.04584	.02184	.00735	-.00054	-.00240
60.000	7.968	.58683	2.00000	-.20065	.11574	.29885	.05369	.03270	.00736	-.00048	-.00241
60.000	9.927	.58754	4.00000	-.23438	.09894	.38294	.06817	.04258	.00730	-.00080	-.00237
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 035 (ORBITER DATA)   (ZNH038)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = 5.000
IORB =	6.000	DX = .000
DY =		MACH = .600

RUN NO. 381/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
2.000	6.002	.58940	.00000	-.17966	.08842	.31463	.05245	-.00141	.00477	.00088	-.00088
2.000	7.874	.58902	2.00000	.01417	.09886	.36410	.06046	-.00765	.00479	.00078	-.00096
2.000	9.948	.58915	4.00000	-.08135	.09314	.42438	.07469	.01674	.00456	.00065	-.00139
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA238) 747/1 ATI O3S1 (ORBITER DATA)   (ZNH038) (17 OCT 75)

REFERENCE DATA

SPREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 392/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.193	.58938	.00000	-.19953	.10119	.32780	.05234	-.00198	.00470	.00100	-.00094
3.500	7.951	.58846	2.00000	-.03082	.09433	.36319	.06033	.00580	.00473	.00099	-.00105
3.500	9.938	.58817	4.00000	-.05491	.06269	.46598	.07454	.01394	.00476	.00098	-.00142
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

RUN NO. 383/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.214	.58831	.00000	-.22229	.06097	.33171	.05316	-.00803	.00425	.00107	-.00111
7.500	7.874	.58841	2.00000	.06212	.09080	.37202	.06073	-.00045	.00443	.00124	-.00133
7.500	9.904	.58680	4.00000	-.03790	.09113	.43925	.07597	.00806	.00420	.00111	-.00174
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

RUN NO. 384/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.221	.58761	.00000	-.24754	.58638	.33252	.05385	-.01106	.00427	.00120	-.00121
10.000	7.924	.58583	2.00000	.00331	.06002	.37711	.06199	-.00260	.00436	.00127	-.00142
10.000	9.923	.58650	4.00000	-.07357	.04744	.44149	.07679	.00574	.00410	.00117	-.00167
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

RUN NO. 395/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.183	.58577	.00000	-.11087	.01898	.32521	.05414	-.01419	.00459	.00123	-.00134
15.000	7.925	.58613	2.00000	-.07630	.06586	.37970	.06266	-.00474	.00440	.00130	-.00152
15.000	9.927	.58605	4.00000	-.00808	.07591	.44988	.07847	.00394	.00423	.00129	-.00170
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

RUN NO. 386/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.153	.58680	.00000	-.09595	.09200	.33254	.05546	-.01586	.00422	.00115	-.00144
30.000	7.925	.58732	2.00000	-.03362	.07523	.39102	.06510	-.00679	.00385	.00112	-.00149
30.000	9.963	.58723	4.00000	-.10732	.04895	.46595	.08268	.00141	.00398	.00120	-.00169
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNH038) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON =	5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX =	.000
SCALE =	.0125			CY =	.000	MACH =	.600

RUN NO. 387/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.149	.5956	.0000	-.10562	.06736	.32970	.05648	-.01716	.00408	.00110	-.00138
45.000	7.962	.58567	2.00000	-.05253	.08859	.33258	.06085	-.00792	.00418	.00124	-.00155
45.000	9.950	.58605	4.00000	-.17347	.03891	.47649	.08483	-.00012	.00352	.00101	-.00167
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 388/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	6.112	.58429	.00000	.10610	.11797	.32762	.05641	-.01757	.00365	.00084	-.00157
50.000	7.928	.58451	2.00000	-.14575	.08722	.39648	.06587	-.00823	.00374	.00105	-.00162
50.000	9.984	.58453	4.00000	-.18128	.08993	.48261	.08610	-.00040	.00389	.00109	-.00169
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 399/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
60.000	6.088	.58455	.00000	.14152	.12373	.31994	.05675	-.01876	.00400	.00100	-.00158
60.000	7.843	.58431	2.00000	-.06113	.08440	.39198	.06738	-.00976	.00378	.00112	-.00161
60.000	9.593	.58414	4.00000	-.21350	.05094	.46389	.07799	-.00084	.00350	.00120	-.00165
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 025I (ORBITER DATA)   (ZNH039) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	10.000	ELEVON =	5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RUN NO. 391/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	7.848	.59025	.00000	-.08042	.07823	.35168	.07785	.02468	.00514	.00125	-.00069
3.500	9.933	.59085	2.00000	-.04830	.00540	.41699	.09341	.03248	.00406	.00081	-.00108
GRADIENT		.00000	4.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNH039) (17 OCT 75)

PARAMETRIC DATA

BETA =	STAB = .000
RUDDER =	ELEVON = 10.000
IORB =	DX = 6.000
DY =	MACH = .000

STAB = 5.000
ELEVON = 5.000
DX = .000
MACH = .600

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP = .0000 IN.	YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE =	.0125		

RUN NO. 392/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58973	2.00000	-.14945	.10879	.36881	.08097	.02273	.00496	.00125	-.00092
.58994	4.00000	-.06435	.06301	.42955	.09540	.02979	.00516	.00092	-.00150
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 7.500 / 7.500   ALPHAO 8.094 / 9.953   GRADIENT

RUN NO. 393/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59037	2.00000	-.16229	.06157	.37211	.08177	.02194	.00458	.00115	-.00102
.59072	4.00000	-.08977	.05457	.42649	.09578	.02830	.00454	.00090	-.00131
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 10.000 / 10.000   ALPHAO 8.098 / 9.970   GRADIENT

RUN NO. 394/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59084	2.00000	-.20524	.05451	.37467	.08268	.02067	.00421	.00112	-.00099
.59115	4.00000	-.10508	.05130	.43335	.09719	.02729	.00446	.00090	-.00139
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 15.000 / 15.000   ALPHAO 8.118 / 9.959   GRADIENT

RUN NO. 395/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59009	2.00000	-.12795	.09327	.37911	.08489	.01825	.00378	.00101	-.00121
.59121	4.00000	-.08579	.08929	.45672	.10190	.02536	.00397	.00075	-.00150
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 30.000 / 30.000   ALPHAO 8.076 / 9.951   GRADIENT

RUN NO. 396/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58969	2.00000	-.08100	.08085	.38512	.08613	.01699	.00363	.00096	-.00131
.59111	4.00000	-.11160	.06246	.46284	.10378	.02305	.00423	.00076	-.00157
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 45.000 / 45.000   ALPHAO 8.057 / 9.963   GRADIENT

RUN NO. 397/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.59072	2.00000	-.01490	.05986	.38625	.08661	.01649	.00345	.00096	-.00122
.59086	4.00000	-.05865	.05656	.46638	.10469	.02232	.00367	.00068	-.00141
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ 50.000 / 50.000   ALPHAO 8.085 / 9.989   GRADIENT

APC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNH040) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	STAB =	.000	5.000
RUDDER =	ELEVON =	.000	5.000
1099	DX =	4.000	.000
DY =	MACH =	.000	.600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	4.000	.58585	.00000	-.03191	.01407	.19530	.06261	.01029	.00381	.00132	-.00061
3.500	6.000	.58731	2.00000	-.01566	-.03599	.25363	.06750	.01648	.00381	.00120	-.00058
3.500	8.000	.58671	4.00000	-.06186	-.01604	.31964	.07554	.02393	.00409	.00117	-.00064
3.500	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	4.000	.58538	.00000	-.06427	.08346	.20017	.06332	.00698	.00411	.00124	-.00094
7.500	6.000	.58728	2.00000	-.05303	-.00542	.25620	.06848	.01303	.00360	.00118	-.00073
7.500	8.000	.58751	4.00000	-.06491	-.02533	.31376	.07652	.02095	.00359	.00111	-.00071
7.500	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	4.000	.58556	.00000	-.10009	.08607	.20124	.06365	.00566	.00474	.00139	-.00098
10.000	6.000	.58679	2.00000	-.05271	.00618	.26063	.06899	.01244	.00394	.00127	-.00082
10.000	8.000	.58753	4.00000	-.09386	-.02923	.31865	.07726	.02025	.00375	.00113	-.00086
10.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	4.000	.58574	.00000	-.08259	.05888	.19642	.06428	.00327	.00355	.00124	-.00117
15.000	6.000	.58678	2.00000	-.05371	-.05011	.26420	.06991	.01102	.00333	.00113	-.00083
15.000	8.000	.58737	4.00000	-.03650	-.06713	.32640	.07868	.01936	.00304	.00101	-.00077
15.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	4.000	.58568	.00000	-.11834	.06133	.19764	.06592	.00091	.00338	.00120	-.00138
30.000	6.000	.58780	2.00000	-.04236	.03333	.27406	.07235	.00916	.00371	.00118	-.00117
30.000	8.000	.59718	4.00000	-.09299	-.04051	.34062	.08213	.01713	.00284	.00102	-.00096
30.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNH040)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	4.000	.58585	.00000	.03619	.07788	.16818	.06699	-.00007	.00308	.00117	-.00126
45.000	6.000	.58757	2.00000	-.12600	.00303	.27635	.07392	.00771	.00294	.00107	-.00103
45.000	8.000	.58694	4.00000	-.16483	-.04890	.38505	.08464	.01633	.00290	.00098	-.00104
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	4.000	.58590	.00000	.11191	.07140	.19802	.06727	-.00040	.00273	.00113	-.00119
50.000	6.000	.58745	2.00000	-.22841	-.02607	.27643	.07444	.00714	.00248	.00099	-.00092
50.000	8.000	.56389	4.00000	-.18856	-.05982	.36162	.08546	.01615	.00288	.00095	-.00102
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (ZNHX10)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.59470	2.00000	.00000	.69102	.46615	.10095	.02806	.00398	.00036	-.00131
3.500	12.000	.59129	4.00000	.00000	.65567	.53909	.12518	.03351	.00498	.00019	-.00094
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.59623	2.00000	.00000	.10196	.46971	.10188	.02638	.00387	.00043	-.00103
7.500	12.000	.59427	4.00000	.00000	.12026	.54571	.12784	.03155	.00512	.00027	-.00074
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (ZNHX10)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2650.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   = .000   STAB   = 5.000
LREF = 474.8100 IN.   YMRP = .0000 IN. YO   RUDDER = .000   ELEVON = 5.000
BREF = 936.6900 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 8.000   DX   = .000
SCALE = 0.025   DY   = .000   MACH   = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ 10.000 / 10.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59778	2.00000	.00000	-.40753	.47085	.10252	.02517	.00393	.00054	-.00074
12.000	.59813	4.00000	.00000	-.29938	.55067	.12980	.03017	.00531	-.00032	-.00049
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00003	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 15.000 / 15.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59647	2.00000	.00000	-.37808	.47128	.10331	.02375	.00319	.00034	-.00104
12.000	.59743	4.00000	.00000	-.41522	.55523	.13148	.02850	.00487	.00037	-.00087
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 30.000 / 30.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59650	2.00000	.00000	-.47262	.48255	.10651	.02149	.00309	.00016	-.00104
12.000	.59596	4.00000	.00000	-.47228	.57398	.13663	.02571	.00398	.00044	-.00073
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 45.000 / 45.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59632	2.00000	.00000	-.43160	.49079	.10836	.02015	.00348	.00019	-.00078
12.000	.59524	4.00000	.00000	-.47800	.58572	.13985	.02371	.00381	.00036	-.00086
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ 50.000 / 50.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.59473	2.00000	.00000	-.48407	.48694	.10811	.01930	.00349	.00020	-.00086
12.000	.59448	4.00000	.00000	-.53399	.58912	.14069	.02313	.00393	.00037	-.00074
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (ZNHX13)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

STAB = .000	BETA = 5.000
ELEVON = .000	RUDDER = 5.000
DX = 6.000	IORB = .000
MACH = .600	DY = .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.59463	2.00000	.00000	-.40468	.35181	.08031	.02502	.00299	.00104	-.00047
3.500	10.000	.59358	4.00000	.00000	-.50809	.41338	.09464	.03215	.00274	.00080	-.00047
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59270	2.00000	.00000	-.47674	.35263	.08068	.02239	.00242	.00103	-.00060
7.500	10.000	.59228	4.00000	.00000	-.49008	.42017	.09594	.02926	.00242	.00077	-.00058
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59175	2.00000	.00000	-.56964	.35382	.08081	.02177	.00192	.00094	-.00070
10.000	10.000	.59204	4.00000	.00000	-.58322	.42216	.09635	.02847	.00252	.00072	-.00072
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59106	2.00000	.00000	-.46587	.35167	.08215	.02003	.00191	.00091	-.00073
15.000	10.000	.59101	4.00000	.00000	-.51663	.42305	.09784	.02534	.00229	.00063	-.00085
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59039	2.00000	.00000	-.52819	.36544	.08424	.01840	.00187	.00084	-.00097
30.000	10.000	.59057	4.00000	.00000	-.50228	.44346	.10152	.02463	.00299	.00064	-.00097
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59084	2.00000	.00000	-.52069	.36940	.08549	.01709	.00152	.00084	-.00087
45.000	10.000	.59105	4.00000	.00000	-.54159	.45356	.10403	.02281	.00213	.00050	-.00080
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHX13) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	.000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	.000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	6.000	DX = .000
SCALE = .0125			DY =	.000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59149	2.00000	.00000	-.51807	.37126	.08642	.01631	.00136	.00089	-.00067
50.000	10.000	.59137	4.00000	.00000	-.55625	.45859	.10522	.02208	.00217	.00053	-.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHX14) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA =	.000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER =	.000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB =	6.000	DX = 10.000
SCALE = .0125			DY =	.000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58921	2.00000	10.00000	-.60672	.34991	.08019	.02167	.00208	.00118	-.00022
3.500	10.000	.58810	4.00000	10.00000	-.62422	.40591	.03450	.02712	.00195	.00093	-.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59102	2.00000	10.00000	-.57802	.35480	.08078	.01978	.00205	.00111	-.00050
7.500	10.000	.59021	4.00000	10.00000	-.57676	.41642	.09590	.02449	.00207	.00085	-.00053
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58959	2.00000	10.00000	-.65106	.35415	.08099	.01852	.00100	.00098	-.00063
10.000	10.000	.58965	4.00000	10.00000	-.62205	.41762	.09646	.02358	.00148	.00080	-.00057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58831	2.00000	10.00000	-.55318	.35646	.08218	.01731	.00126	.00104	-.00050
15.000	10.000	.58836	4.00000	10.00000	-.65905	.42507	.09835	.02245	.00177	.00075	-.00069
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX14)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   6.000   DX   = 10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58818	2.00000	10.00000	-.54427	.36731	.08429	.01610	.00117	.00095	-.00083
30.000	10.000	.59074	4.00000	10.00000	-.55315	.44515	.10198	.02142	.00146	.00057	-.00095
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59228	2.00000	10.00000	-.58531	.36993	.08531	.01521	.00132	.00105	-.00070
45.000	10.000	.59176	4.00000	10.00000	-.62227	.45985	.10474	.02053	.00124	.00048	-.00077
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59041	2.00000	10.00000	-.57745	.37487	.08602	.01545	-.00018	.00074	-.00068
50.000	10.000	.59056	4.00000	10.00000	-.62433	.45962	.10491	.02036	.00108	.00048	-.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX15)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   9.000   DX   = 10.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.59219	2.00000	10.00000	-.59402	.45294	.09745	.02438	.00167	.00085	-.00057
3.500	12.000	.58993	4.00000	10.00000	-.65242	.52051	.12159	.02960	.00448	.00026	.00004
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.59002	2.00000	10.00000	-.66536	.46011	.10012	.02373	.00250	.00077	-.00055
7.500	12.000	.58944	4.00000	10.00000	-.65825	.53240	.12476	.02835	.00452	.00011	-.00021
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120 (CA23B) 747/1 AT1 02S1 (ORBITER DATA) (ZNHX15) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	
SCALE =	.0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58891	2.00000	10.00000	-.69918	.46512	.10181	.02318	.00310	.00073	-.00055
10.000	12.000	.58894	4.00000	10.00000	-.64470	.54071	.12690	.02753	.00466	.00004	-.00045
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58823	2.00000	10.00000	-.73661	.46843	.10294	.02199	.00269	.00055	-.00077
15.000	12.000	.58938	4.00000	10.00000	-.71417	.55090	.12972	.02511	.00419	-.00022	-.00033
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

CZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58915	2.00000	10.00000	-.59283	.48374	.10668	.02040	.00297	.00043	-.00078
30.000	12.000	.59073	4.00000	10.00000	-.65031	.57239	.13578	.02408	.00430	-.00023	-.00034
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58995	2.00000	10.00000	-.70121	.48493	.10727	.01937	.00237	.00024	-.00093
45.000	12.000	.58955	4.00000	10.00000	-.69625	.56316	.13667	.02294	.00412	-.00016	-.00046
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58887	2.00000	10.00000	-.71338	.48903	.10805	.01921	.00260	.00027	-.00069
50.000	12.000	.58933	4.00000	10.00000	-.67087	.58875	.13971	.02257	.00350	-.00033	-.00026
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 455

                      ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX16)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = 20.000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58974	2.00000	20.00000	-.85011	.34968	.08284	.01698	.00291	.00112	-.00046
3.500	10.000	.59003	4.00000	20.00000	-.76988	.40712	.09733	.02124	.00335	.00091	-.00053
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58931	2.00000	20.00000	-.81185	.35427	.08298	.01448	.00334	.00122	-.00065
7.500	10.000	.58946	4.00000	20.00000	-.81231	.41535	.09809	.01862	.00366	.00096	-.00076
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59013	2.00000	20.00000	-.76413	.35410	.08296	.01372	.00272	.00108	-.00071
10.000	10.000	.58931	4.00000	20.00000	-.80148	.41651	.09845	.01794	.00338	.00083	-.00080
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58937	2.00000	20.00000	-.84082	.35879	.08323	.01339	.00279	.00106	-.00078
15.000	10.000	.58930	4.00000	20.00000	-.75321	.42530	.09923	.01780	.00346	.00072	-.00099
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59004	2.00000	20.00000	-.80629	.36767	.08464	.01349	.00279	.00097	-.00113
30.000	10.000	.59027	4.00000	20.00000	-.85063	.44313	.10245	.01817	.00288	.00065	-.00095
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58948	2.00000	20.00000	-.75331	.37231	.08576	.01364	.00211	.00090	-.00089
45.000	10.000	.58970	4.00000	20.00000	-.77027	.45662	.10466	.01850	.00299	.00052	-.00104
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 0251 (ORBITER DATA)   (ZNHX16)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000   STAB = 5.000
RUDDER = .000   ELEVON = 5.000
IORB = 6.000   DX = 20.000
DY = .000   MACH = .600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58887	2.00000	20.00000	-.80299	.37213	.08622	.01354	.00212	.00094	-.00085
50.000	10.000	.58896	4.00000	20.00000	-.77864	.45747	.10518	.01839	.00307	.00051	-.00096
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 0251 (ORBITER DATA)   (ZNHX17)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000   STAB = 5.000
RUDDER = .000   ELEVON = 5.000
IORB = 8.000   DX = 20.000
DY = .000   MACH = .600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58981	2.00000	20.00000	-.53583	.44996	.09892	.02216	.00239	.00074	-.00121
3.500	12.000	.58935	4.00000	20.00000	-.91880	.52070	.12380	.02540	.00624	.00017	-.00015
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.59078	2.00000	20.00000	-.71654	.45714	.10149	.02093	.00356	.00070	-.00101
7.500	12.000	.59099	4.00000	20.00000	-.86406	.52373	.12550	.02404	.00559	.00002	-.00042
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.59142	2.00000	20.00000	-.82520	.46244	.10316	.01992	.00432	.00070	-.00084
10.000	12.000	.59107	4.00000	20.00000	-.81252	.53488	.12675	.02307	.00503	.00010	-.00062
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.59121	2.00000	20.00000	-.83998	.46368	.10350	.01893	.00455	.00059	-.00120
15.000	12.000	.59220	4.00000	20.00000	-.83206	.54052	.12819	.02194	.00520	.00015	-.00075
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX17)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	ICRB = 8.000 DX = 20.000
SCALE = .0125		DY = .000 MACH = .600

| RUN NO. | 0/ 0 | RN/L = 3.35 | GRADIENT INTERVAL = -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.59109	2.00000	20.00000	-.87982	.47466	.10600	.01801	.00433	.00053	-.00103
30.000	12.000	.59091	4.00000	20.00000	-.77306	.56662	.13429	.02145	.00601	.00028	-.00084
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = 3.35 | GRADIENT INTERVAL = -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.59145	2.00000	20.00000	-.82957	.48320	.10690	.01805	.00321	.00018	-.00088
45.000	12.000	.59106	4.00000	20.00000	-.78742	.57957	.13792	.02117	.00484	.00033	-.00089
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = 3.35 | GRADIENT INTERVAL = -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.59044	2.00000	20.00000	-.87139	.48115	.10712	.01733	.00346	.00033	-.00089
50.000	12.000	.59121	4.00000	20.00000	-.82002	.58066	.13827	.02094	.00502	-.00029	-.00078
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (ZNHX27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	ICRB = 8.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

| RUN NO. | 0/ 0 | RN/L = 3.31 | GRADIENT INTERVAL = -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58756	2.00000	.00000	.15855	.38555	.06449	.05366	.00883	.00026	-.00254
3.500	12.000	.58727	4.00000	.00000	.04730	.45935	.08494	.05978	.00824	-.00104	-.00218
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

| RUN NO. | 0/ 0 | RN/L = 3.30 | GRADIENT INTERVAL = -5.00/ 5.00 |

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58736	2.00000	.00000	.09435	.38557	.06465	.05156	.00801	-.00007	-.00233
7.500	12.000	.58662	4.00000	.00000	.00201	.46226	.08597	.05400	.00873	.00098	-.00223
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (ZNHX27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   = 8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO. 0/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58623	2.00000	.00000	.04488	.38582	.06492	.04895	.00705	-.00025	-.00206
10.000	12.000	.58597	4.00000	.00000	.06129	.46514	.08647	.05300	.00887	-.00083	-.00228
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58706	2.00000	.00000	.04020	.38624	.06449	.04771	.00817	-.00072	-.00251
15.000	12.000	.58628	4.00000	.00000	.04479	.47158	.08804	.05158	.01042	-.00121	-.00226
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58533	2.00000	.00000	.05130	.39461	.06740	.04397	.00807	-.00064	-.00244
30.000	12.000	.58575	4.00000	.00000	.02755	.49093	.09328	.04809	.01002	-.00122	-.00230
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58607	2.00000	.00000	.06827	.40181	.06912	.04337	.00815	-.00064	-.00269
45.000	12.000	.58557	4.00000	.00000	-.00121	.50385	.09630	.04628	.00952	-.00120	-.00226
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58565	2.00000	.00000	.05736	.40079	.06930	.04226	.00830	-.00063	-.00260
50.000	12.000	.58526	4.00000	.00000	.07269	.50721	.09731	.04579	.00937	-.00121	-.00217
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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TABULATED SOURCE DATA - CA23B

ARC 14-120(CA232) 747/1 ATI 035I (ORBITER DATA)

(ZNHX28)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000	
CREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = .000	
BREF = 935.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = .000	DX = 10.000	
SCALE = .0125			DY = 6.000	MACH = .600	

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.58687	2.00000	10.00000	-.01230	.27315	.04835	.03394	.00827	.00020	-.00185
3.500	10.000	.58723	4.00000	10.00000	.09360	.32742	.05921	.04830	.00831	.00008	-.00226
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.58766	2.00000	10.00000	.02359	.27979	.04894	.03625	.00814	.00016	-.00211
7.500	10.000	.58809	4.00000	10.00000	.02178	.33762	.05986	.04462	.00804	-.00006	-.00244
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.58624	2.00000	10.00000	-.00074	.28269	.04905	.03473	.00747	-.00008	-.00217
10.000	10.000	.58656	4.00000	10.00000	.05953	.34052	.06035	.04222	.00766	.00021	-.00240
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.58701	2.00000	10.00000	.08914	.28610	.04972	.03309	.00749	-.00007	-.00232
15.000	10.000	.58726	4.00000	10.00000	.02589	.34435	.06153	.04123	.00743	-.00024	-.00255
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58688	2.00000	10.00000	.05872	.29191	.05152	.03226	.00728	-.00021	-.00233
30.000	10.000	.58711	4.00000	10.00000	.06636	.36548	.06536	.04158	.00780	-.00040	-.00263
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58645	2.00000	10.00000	-.01492	.29410	.05296	.03175	.00698	-.00034	-.00229
45.000	10.000	.58643	4.00000	10.00000	.07284	.37471	.06753	.04082	.00755	-.00045	-.00225
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNHX28)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA =	STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER =	ELEVON = .000	.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB =	DX = 6.000	10.000
SCALE = .0125			DY =	MACH = .000	.600

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58633	2.00000	10.00000	.05297	.29927	.05338	.03197	.00708	-.00027	-.00238
50.000	10.000	.58669	4.00000	10.00000	.02953	.38144	.06826	.04104	.00752	-.00051	-.00236
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNHX29)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA =	STAB = .000	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER =	ELEVON = .000	.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB =	DX = 8.000	10.000
SCALE = .0125			DY =	MACH = .000	.600

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58965	2.00000	10.00000	.07085	.36973	.06018	.05095	.00779	-.00001	-.00235
3.500	12.000	.58806	4.00000	10.00000	.00873	.44062	.08157	.05506	.00953	-.00031	-.00309
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58849	2.00000	10.00000	.03020	.37631	.06290	.04780	.00782	-.00017	-.00221
7.500	12.000	.58815	4.00000	10.00000	.03353	.44957	.08351	.05191	.00913	-.00058	-.00278
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58770	2.00000	10.00000	-.01491	.38109	.06466	.04549	.00784	-.00024	-.00214
10.000	12.000	.58827	4.00000	10.00000	.04742	.45639	.08492	.04961	.00889	-.00075	-.00256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58909	2.00000	10.00000	.09362	.38557	.06547	.04342	.00761	-.00046	-.00227
15.000	12.000	.58823	4.00000	10.03000	.06535	.46210	.08622	.04743	.00847	-.00103	-.00241
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

REFERENCE DATA   (ZNHX29)   (17 OCT 75)

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	10.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58839	2.00000	10.00000	.05480	.39664	.06782	.04206	.00755	-.00058	-.00242
30.000	12.000	.582-2	4.00000	10.00000	.05027	.48717	.09287	.04505	.00927	-.00122	-.00223
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58880	2.00000	10.00000	.06013	.40006	.06943	.04156	.00760	-.00059	-.00257
45.000	12.000	.58936	4.00000	10.00000	.11899	.50056	.09651	.04440	.00907	-.00118	-.00211
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58587	2.00000	10.00000	.05102	.40242	.06981	.04125	.00752	-.00044	-.00213
50.000	12.000	.58724	4.00000	10.00000	.07609	.50328	.09730	.04416	.00896	-.00097	-.00211
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

REFERENCE DATA   (ZNHX30)   (17 OCT 75)

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58489	2.00000	20.00000	.02299	.36934	.06168	.04544	.00757	.00028	-.00221
3.500	12.000	.58554	4.00000	20.00000	.04884	.43558	.08135	.04694	.00815	-.00017	-.00212
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58582	2.00000	20.00000	.03582	.37643	.06374	.04254	.00762	.00008	-.00223
7.500	12.000	.58658	4.00000	20.00000	.03591	.44438	.08291	.04545	.00808	-.00036	-.00245
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

REFERENCE DATA   (ZNHX30)   (17 OCT 75)

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.500

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58700	2.00000	20.00000	.05242	.38247	.06522	.04089	.00771	-.00006	-.00230
10.000	12.000	.58651	4.00000	20.00000	.02600	.45086	.08404	.04439	.00802	-.00052	-.00271
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58572	2.00000	20.00000	.03261	.38214	.06533	.03918	.00745	-.00014	-.00217
15.000	12.000	.58560	4.00000	20.00000	.02195	.45718	.08533	.04337	.00808	-.00057	-.00276
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58806	2.00000	20.00000	.04541	.39200	.06801	.03954	.00737	-.00040	-.00238
30.000	12.000	.58578	4.00000	20.00000	.08552	.48377	.09179	.04267	.00882	-.00098	-.00219
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58763	2.00000	20.00000	.06524	.40161	.06927	.04036	.00707	-.00064	-.00237
45.000	12.000	.58716	4.00000	20.00000	.09032	.49026	.09388	.04303	.00867	-.00109	-.00227
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.58729	2.00000	20.00000	-.00144	.40091	.06955	.04051	.00735	-.00047	-.00236
50.000	12.000	.58764	4.00000	20.00000	.06742	.50275	.09626	.04300	.00883	-.00111	-.00220
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ZNHX31)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO
SCALE =	.0125			

PARAMETRIC DATA

BETA =	5.00	STAB =	5.000
RUDDER =		ELEVON =	.000
IORB =		DX =	20.000
DY =		MACH =	.600

RUN NO.   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ 3.500 / 3.500

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58478	2.00000	20.00000	.03430	.27510	.04961	.03120	.00717	.00030	-.00172
10.000	.58701	4.00000	20.00000	.11658	.33292	.06042	.03871	.00701	-.00003	-.00224
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ 7.500 / 7.500

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58600	2.00000	20.00000	.05331	.28123	.05023	.02991	.00714	.00017	-.00185
10.000	.58679	4.00000	20.00000	.08012	.33913	.06124	.03785	.00712	-.00005	-.00233
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ 10.000 / 10.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58711	2.00000	20.00000	.07032	.28603	.05039	.02916	.00713	.00007	-.00202
10.000	.58647	4.00000	20.00000	.05234	.34346	.06181	.03725	.00717	-.00007	-.00237
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ 15.000 / 15.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58716	2.00000	20.00000	.07484	.28787	.05031	.02878	.00707	.00008	-.00193
10.000	.58711	4.00000	20.00000	.02941	.34870	.05247	.03678	.00740	-.00002	-.00254
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ 30.000 / 30.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58705	2.00000	20.00000	.07432	.29595	.05264	.03026	.00726	-.00016	-.00226
10.000	.58711	4.00000	20.00000	.06357	.36524	.05530	.03870	.00667	-.00046	-.00224
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ 45.000 / 45.000

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
8.000	.58719	2.00000	20.00000	.09486	.29863	.05336	.03062	.00669	-.00023	-.00211
10.000	.58694	4.00000	20.00000	.06728	.37648	.06739	.03982	.00727	-.00044	-.00246
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ZNHX31) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000 DX = 20.000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	ALPHAC	MACH	DX	CY	CYN	CBL	CL	CD	CLM	DY
50.000	8.000	2.00000	.58699	20.00000	.00645	-.00024	-.00217	.29954	.05362	.03066	.02027
50.000	10.000	4.00000	.58709	20.00000	.00691	-.00053	-.00241	.37739	.06780	.03986	.02391
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (ZNHX34) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000 DX = 6.000
SCALE = .0125		DY = .000 MACH = .600

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	ALPHAC	MACH	DX	CY	CYN	CBL	CL	CD	CLM	DY
3.500	8.000	2.00000	.58780	.00000	.00917	-.00023	-.00214	.27468	.04685	.04780	-.07105
3.500	10.000	4.00000	.58730	.00000	.00908	-.00052	-.00257	.32933	.05713	.05782	-.01586
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	ALPHAC	MACH	DX	CY	CYN	CBL	CL	CD	CLM	DY
7.500	8.000	2.00000	.58691	.00000	.00862	-.00050	-.00226	.27938	.04758	.04342	-.03982
7.500	10.000	4.00000	.58751	.00000	.00853	-.00065	-.00264	.33730	.05828	.05330	-.04258
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	ALPHAC	MACH	DX	CY	CYN	CBL	CL	CD	CLM	DY
10.000	8.000	2.00000	.58688	.00000	.00856	-.00049	-.00229	.27895	.04797	.04126	-.03324
10.000	10.000	4.00000	.58670	.00000	.00848	-.00070	-.00274	.34172	.05890	.05163	-.06070
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	ALPHAC	MACH	DX	CY	CYN	CBL	CL	CD	CLM	DY
15.000	8.000	2.00000	.58673	.00000	.00859	-.00061	-.00244	.28282	.04859	.03831	-.05303
15.000	10.000	4.00000	.58727	.00000	.00863	-.00063	-.00267	.34730	.06018	.04868	-.07127
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAGE 465

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (ZNHX34)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CLM	CYN	CBL
DZ 8.000	.58733	2.0000	.00000	-.03707	.29362	.05110	.00880	.03705	-.00046	-.00260
30.000 10.000	.58712	4.00000	.00000	-.08604	.36715	.06416	.00836	.04641	-.00094	-.00277
30.000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CLM	CYN	CBL
DZ 8.000	.58710	2.0000	.00000	-.05594	.29754	.05248	.00805	.03537	-.00068	-.00265
45.000 10.000	.58749	4.00000	.00000	-.06247	.37919	.06661	.00795	.04500	-.00095	-.00248
45.000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CLM	CYN	CBL
DZ 8.000	.58804	2.0000	.00000	-.01917	.29988	.05269	.00794	.03508	-.00058	-.00256
50.000 10.000	.58759	4.00000	.00000	-.04602	.38230	.06730	.00828	.04479	-.00082	-.00265
50.000 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNHY10)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   =   8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CLM	CYN	CBL
DZ 10.000	.59503	2.0000	-.01267	.00000	.46595	.10124	.00406	.02801	.00046	-.00109
3.500 12.000	.59150	4.00000	-.01020	.00000	.53870	.12511	.00528	.03341	.00013	-.00053
3.500 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CLM	CYN	CBL
DZ 10.000	.59531	2.0000	-.02650	.00000	.46870	.10190	.00389	.02638	.00044	-.00101
7.500 12.000	.59506	4.00000	-.04069	.00000	.54574	.12787	.00517	.03155	-.00026	-.00068
7.500 GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (ZNHY10)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = 5.000		
IORB = 8.000	DX = .300		
DY = .000	MACH = .600		

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
10.000	10.000	.59752	2.00000	-.03048	.47109	.10252	.02522	.00000	.00390	.00050	-.00085
10.000	12.000	.59802	4.00000	-.07336	.55081	.12978	.03022	.00000	.00522	.00034	-.00061
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
15.000	10.000	.59633	2.00000	-.02992	.47133	.10333	.02377	.00000	.00316	.00032	-.00110
15.000	12.000	.59726	4.00000	-.07123	.55529	.13146	.02855	.00000	.00480	.00039	-.00098
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
30.000	10.000	.59637	2.00000	-.08807	.48237	.10649	.02153	.00000	.00307	.00015	-.00108
30.000	12.000	.59584	4.00000	-.11959	.57405	.13664	.02476	.00000	.00391	.00045	-.00080
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
45.000	10.000	.59520	2.00000	-.10677	.49074	.10835	.02019	.00000	.00347	.00018	-.00081
45.000	12.000	.59522	4.00000	-.19602	.58589	.13989	.02377	.00000	.00382	.00036	-.00090
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	CLM	DY	CY	CYN	CBL
50.000	10.000	.59459	2.00000	-.01444	.48705	.10811	.01936	.00000	.00347	.00020	-.00088
50.000	12.000	.59441	4.00000	-.12143	.58919	.14070	.02319	.00000	.00391	.00038	-.00078
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 0251 (ORBITER DATA)   (ZNHY13)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.59450	2.00000	-.03811	.00000	.35204	.08028	.02502	.00301	.00099	-.00059
3.500	10.000	.59354	4.00000	-.06523	.00000	.41371	.09464	.03221	.00270	.00071	-.00075
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59261	2.00000	.01798	.00000	.35307	.08069	.02238	.00240	.00098	-.00071
7.500	10.000	.59217	4.00000	-.04063	.00000	.42057	.09597	.02926	.00237	.00070	-.00079
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59174	2.00000	-.01456	.00000	.35427	.08084	.02175	.00195	.00090	-.00082
10.000	10.000	.59204	4.00000	-.07557	.00000	.42275	.09542	.02849	.00247	.00065	-.00094
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59103	2.00000	.07807	.00000	.35606	.08214	.02008	.00192	.00088	-.00082
15.000	10.000	.59103	4.00000	-.01760	.00000	.42661	.09790	.02685	.00224	.00058	-.00100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.59046	2.00000	.09995	.00000	.45660	.09426	.01835	.00188	.00083	-.00102
30.000	10.000	.59064	4.00000	-.09951	.00000	.44476	.10159	.02461	.00294	.00061	-.00105
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.59085	2.00000	.04067	.00000	.35973	.08554	.01704	.00154	.00084	-.00091
45.000	10.000	.59157	4.00000	-.06458	.00000	.45477	.10411	.02573	.00214	.00049	-.00096
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)　　　(ZNHY13)　(17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = .000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =	DX = 6.000
SCALE = .0125		DY =	MACH = .000

RUN NO.　0/ 0　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.59144	2.00000	-.17655	.00000	.37034	.08645	.01628	.00144	.00088	-.00071
50.000	10.000	.59135	4.00000	-.17839	.00000	.45889	.10528	.02208	.00220	.00051	-.00064
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)　　　(ZNHY18)　(17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = .000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =	DX = 6.000
SCALE = .0125		DY =	MACH = 10.000

RUN NO.　0/ 0　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	8.000	.59076	2.00000	-.15123	10.00000	.35752	.07938	.02468	.00330	-.00036	-.00341
3.500	10.000	.59178	4.00000	-.09423	10.00000	.41893	.09457	.03278	.00173	-.00094	-.00024
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	8.000	.59084	2.00000	-.21204	10.00000	.36204	.08102	.02237	.00189	-.00017	-.00303
7.500	10.000	.59980	4.00000	-.05023	10.00000	.42836	.09764	.02304	.00138	-.00065	-.00501
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	8.000	.59145	2.00000	-.19453	10.00000	.36214	.08140	.02145	.00249	.00007	-.00304
10.000	10.000	.59157	4.00000	-.08798	10.00000	.43217	.09767	.02814	.00136	.00067	-.00463
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.　0/ 0　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	8.000	.59100	2.00000	-.22222	10.00000	.36381	.08212	.02031	.00235	.00024	-.00293
15.000	10.000	.59135	4.00000	-.08119	10.00000	.43741	.09913	.02687	.00137	-.00037	-.00367
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA) (ZNHY1B) (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	1ORB =	DX = .000
SCALE = .0125		DY =	MACH = .600

	RUN NO.	0/ 0	RN/L =	3.35	GRADIENT INTERVAL = -5.00/ 5.00					
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CYN	CBL
30.000	8.000	.59185	2.00000	-.18323	10.00000	.36849	.08453	.00216	.00059	-.00213
30.000	10.000	.59194	4.00000	-.12907	10.00000	.45034	.10305	.00174	-.00001	-.00270
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	RUN NO.	0/ 0	RN/L =	3.35	GRADIENT INTERVAL = -5.00/ 5.00					
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CYN	CBL
45.000	8.000	.59090	2.00000	-.07926	10.00000	.37593	.08658	.00197	.00070	-.00168
45.000	10.000	.59168	4.00000	-.08685	10.00000	.46304	.10574	.00219	.00017	-.00197
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	RUN NO.	0/ 0	RN/L =	3.35	GRADIENT INTERVAL = -5.00/ 5.00					
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CYN	CBL
50.000	8.000	.59017	2.00000	-.04244	10.00000	.37428	.08683	.00218	.00075	-.00143
50.000	10.000	.59073	4.00000	-.10545	10.00000	.46487	.10626	.00214	.00015	-.00174
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA) (ZNHY19) (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	1ORB =	DX = .000
SCALE = .0125		CY =	MACH = .600

	RUN NO.	0/ 0	RN/L =	3.34	GRADIENT INTERVAL = -5.00/ 5.00					
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CYN	CBL
3.500	10.000	.59043	2.00000	-.32979	10.00000	.45972	.09740	.00308	-.00102	-.00428
3.500	12.000	.59118	4.00000	-.20066	10.00000	.54545	.12638	.00076	-.00112	-.00677
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	RUN NO.	0/ 0	RN/L =	3.34	GRADIENT INTERVAL = -5.00/ 5.00					
DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CY	CYN	CBL
7.500	10.000	.59052	2.00000	-.21857	10.00000	.47285	.10040	.00310	-.00068	-.00370
7.500	12.000	.59132	4.00000	-.12611	10.00000	.54977	.12770	.00160	-.00101	-.00552
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)

(ZNHY19) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	-5.00/ 5.00
RUDDER =	.000
1ORB =	8.000
DY =	10.000
STAB =	5.000
ELEVON =	5.000
DX =	.000
MACH =	.600

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.59041	2.00000	-.14628	10.00000	.47658	.10247	.02625	.00308	-.00046	-.00341
10.000	12.000	.59147	4.00000	-.04928	10.00000	.55278	.12833	.03122	.00223	-.00097	-.00465
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.59203	2.00000	-.16675	10.00000	.47248	.10366	.02439	.00238	-.00015	-.00262
15.000	12.000	.59136	4.00000	-.09205	10.00000	.55626	.13084	.02957	.00282	-.00073	-.00356
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.59188	2.00000	-.20224	10.00000	.47936	.10512	.02217	.00257	.00007	-.00185
30.000	12.000	.59160	4.00000	-.15182	10.00000	.57558	.13678	.02655	.00230	-.00058	-.00210
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.59144	2.00000	-.15593	10.00000	.48783	.10771	.02091	.00291	.00009	-.00156
45.000	12.000	.59169	4.00000	-.22395	10.00000	.58854	.14017	.02478	.00404	-.00025	-.00159
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	10.000	.59182	2.00000	-.10655	10.00000	.48927	.10558	.02053	.00287	.00017	-.00118
50.000	12.000	.59160	4.00000	-.12670	10.00000	.59102	.14249	.02413	.00328	-.00045	-.00138
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.05000	.00000	.00000	.00000

ARC 11-1201(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (ZNHY27)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	-5.00/	STAB	=	.000	5.000
RUDDER	=	5.00	ELEVON	=	.000	.000
IORB	=		DX	=	8.000	.000
DY	=		MACH	=	.000	.600

RUN NO.   0/ O   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58746	2.00000	-.15845	.00000	.38596	.05469	.05369	.00891	.00030	-.00250
3.500	12.000	.58723	4.00000	-.20371	.00000	.45983	.08504	.05986	.00821	-.00105	-.00212
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ O   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58591	2.00000	-.10359	.00000	.38572	.06471	.05109	.00803	-.00005	-.00231
7.500	12.000	.58658	4.00000	-.14421	.00000	.4635'	.08598	.05605	.00873	-.00098	-.00219
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ O   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	10.000	.58620	2.00000	-.05370	.00000	.38586	.06493	.04897	.00705	-.00024	-.00205
10.000	12.000	.58592	4.00000	-.07425	.00000	.46522	.08650	.05201	.00898	-.00082	-.00226
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ O   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	10.000	.58704	2.00000	-.08905	.00000	.38624	.06448	.04775	.00818	-.00072	-.00251
15.000	12.000	.58623	4.00000	-.13400	.00000	.47174	.08607	.05163	.01047	-.00121	-.00224
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ O   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	10.000	.58526	2.00000	-.10707	.00000	.39456	.06739	.04539	.00808	-.00064	-.00244
30.300	12.000	.58569	4.00000	-.12752	.00000	.49097	.09328	.04812	.01004	-.00121	-.00230
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ O   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	10.000	.58503	2.00000	-.05563	.00000	.40183	.06911	.04358	.00816	-.00064	-.00269
45.000	12.000	.58548	4.00000	-.16527	.00000	.5047	.09628	.04631	.00953	-.00120	-.00226
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNHY27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN.   XO   STAB   =   .000   BETA   =
LREF =   474.8100 IN.   YMRP =   .0000 IN.   YO   ELEVON =   .000   RUDDER =
BREF =   936.6300 IN.   ZMRP =   375.0000 IN.   ZO   DX   =   8.000   IORB   =
SCALE =   .0125   MACH   =   .000   DY   =   5.00

DZ	MACH	ALPHAO	RUN NO. 0/0	RN/L = 3.30	GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAC	DX	ALPHAC	CL	CD	CLM	CY	CYN	CBL
50.000	.58563	10.000	2.00000	-.10954	.40076	.06930	.04226	.00832	-.00063	-.00260
50.000	.58531	12.000	4.00000	-.16345	.50730	.09731	.04581	.00939	-.00122	-.00217
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNHY32)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN.   XO   STAB   =   .000   BETA   =
LREF =   474.8100 IN.   YMRP =   .0000 IN.   YO   ELEVON =   .000   RUDDER =
BREF =   936.6300 IN.   ZMRP =   375.0000 IN.   ZO   DX   =   6.000   IORB   =
SCALE =   .0125   MACH   = 10.000   DY   =   5.00

DZ	MACH	ALPHAO	RUN NO. 0/0	RN/L = 3.31	GRADIENT INTERVAL = -5.00/ 5.00

	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	.58674	8.000	-.05886	10.00000	.28238	.04683	.04427	.00660	-.00162	-.00377
3.500	.58735	10.000	-.08259	10.00000	.33762	.05709	.05472	.00679	-.00252	-.00645
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	.58723	8.000	-.11877	10.00000	.28745	.04799	.04330	.00620	-.00127	-.00382
7.500	.58724	10.000	-.05162	10.00000	.34553	.04962	.04297	.00570	-.00196	-.00553
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	.58727	8.000	-.15591	10.00000	.28471	.04842	.03936	.00649	-.00112	-.00357
10.000	.58739	10.000	-.04941	10.00000	.34441	.05917	.04847	.00547	-.00207	-.00528
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	MACH	ALPHAO	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	.58721	8.000	-.19551	10.00000	.28677	.04839	.03827	.00645	-.00104	-.00352
15.000	.58776	10.000	-.08464	10.00000	.35166	.05040	.04807	.00563	-.00194	-.00506
	.00000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

APC 14-120(CA23B) 747/1 ATI 035I (ORBITER DATA)   (ZNHY32) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB = .000	BETA = -5.00/ 5.00
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = .000	RUDDER =
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 6.000	ICRB =
SCALE = .0125		MACH = 10.000	DY =

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	8.000	.58737	2.00000	-.18137	10.00000	.29528	.05168	.03600	.00679	-.00062	-.00037
30.000	10.000	.58771	4.00000	-.13226	10.00000	.35787	.06487	.04591	.00648	-.00121	-.00390
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	8.000	.58761	2.00000	-.06798	10.00000	.29965	.05300	.03434	.00635	-.00067	-.00262
45.000	10.000	.58905	4.00000	-.11714	10.00000	.37639	.06709	.04407	.00630	-.00107	-.00319
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58923	2.00000	-.02004	10.00000	.30019	.05356	.03407	.00662	-.00060	-.00273
50.000	10.000	.58893	4.00000	-.04956	10.00000	.58190	.06799	.04489	.00643	-.00098	-.00302
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 055I (ORBITER DATA)   (ZNHY33) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB = .000	BETA = -5.00/ 5.00
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = .000	RUDDER =
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 8.000	ICRB =
SCALE = .0125		MACH = 10.000	DY =

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	10.000	.58900	2.00000	.19113	10.00000	.37945	.05822	.05827	.00492	-.00189	-.00527
3.500	12.000	.58944	4.00000	-.15384	10.00000	.45430	.09071	.05842	.00485	-.00242	-.00825
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	10.000	.58945	2.00000	-.05610	10.00000	.49275	.05162	.05101	.00575	-.00167	-.00468
7.500	12.000	.58902	4.00000		10.00000	.45621	.09260	.05822	.00546	-.00229	-.00708
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O3S (ORBITER DATA)   (ZNHY33)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA =   .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF = 93E.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB = 8.000   DX   =   .000
SCALE = .0125   DY   = 10.000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	DY	CY	CYN	CBL
10.000	10.000	.58936	2.00000	-.20967	.38563	.06391	10.00000	.00612	-.00149	-.00432
10.000	12.000	.58918	4.00000	-.11484	.46337	.08427	10.00000	.00587	-.00218	-.00619
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	DY	CY	CYN	CBL
15.000	10.000	.58882	2.00000	-.19234	.38575	.06450	10.00000	.00674	-.00133	-.00412
15.000	12.000	.58908	4.00000	-.11594	.46896	.08623	10.00C00	.00650	-.00211	-.00544
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	DY	CY	CYN	CBL
30.000	10.000	.58932	2.00000	-.19577	.39629	.06736	10.00000	.00731	-.00093	-.00320
30.000	12.000	.58895	4.00000	-.16472	.49512	.09320	10.00000	.00757	-.00199	-.00335
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	DY	CY	CYN	CBL
45.000	10.000	.58684	2.00000	-.17007	.40287	.06933	10.00000	.00711	-.00112	-.00286
45.000	12.000	.59661	4.00000	-.20028	.50389	.09574	10.00000	.00831	-.00168	-.00312
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	CL	CD	DY	CY	CYN	CBL
50.000	10.000	.58784	2.00000	-.10670	.40168	.06913	10.00000	.00734	-.00094	-.00275
50.000	12.000	.58733	4.00000	-.16871	.50515	.09599	10.00000	.00852	-.00148	-.00295
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (ZNHY34)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58779	8.000	3.500	2.00000	.16221	.00000	.27470	.04687	.04766	.00914	-.00023	-.00215
.58730	10.000	3.500	4.00000	.00123	.00000	.32934	.05713	.05781	.00908	-.00053	-.00257
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58691	8.000	7.500	2.00000	.05405	.00000	.27942	.04759	.04337	.00861	-.00050	-.00227
.58751	10.000	7.500	4.00000	-.00538	.00000	.33784	.05828	.05329	.00852	-.00065	-.00265
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58688	8.000	10.000	2.00000	.05454	.00000	.27899	.04798	.04122	.00854	-.00049	-.00230
.58671	10.000	10.000	4.00000	-.03900	.00000	.34175	.05890	.05164	.00847	-.00071	-.00276
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58673	8.000	15.000	2.00000	.05004	.00000	.28286	.04860	.03829	.00857	-.00061	-.00245
.59727	10.000	15.000	4.00000	-.05659	.00000	.34735	.06018	.04872	.00861	-.00065	-.00269
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58732	8.000	30.000	2.00000	.01989	.00000	.29362	.05110	.03703	.00879	-.00046	-.00260
.58712	10.000	30.000	4.00000	-.07747	.00000	.36717	.06415	.04644	.00835	-.00095	-.00278
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAO	DZ	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
.58712	8.000	45.000	2.00000	-.12500	.00000	.29761	.05248	.03541	.00806	-.00068	-.00265
.58751	10.000	45.000	4.00000	-.15488	.00000	.37929	.06659	.04508	.00796	-.00096	-.00248
.00000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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ARC 14-120(CA23B) 747/1 ATI 03SI (ORBITER DATA)   (ZNHY34)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	8.000	.58807	2.00000	-.14372	.00000	.29989	.05268	.03513	.00795	-.00059	-.00257
50.000	10.000	.58762	4.00000	-.16752	.00000	.38229	.06728	.04486	.00828	-.00083	-.00265
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI 02SI (ORBITER DATA)   (ZNHM40)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

RUN NO.   0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	5.829	.60000	2.00000	-.00100	.06542	.24719	.06678	.01574	.00389	.00119	-.00062
3.500	7.893	.60000	4.00000	-.06036	.06946	.30555	.07483	.02359	.00427	.00119	-.00068
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	5.881	.60000	2.00000	-.05171	.06605	.25127	.06798	.01240	.00373	.00120	-.00074
7.500	7.904	.60000	4.00000	-.06693	.03934	.30965	.07580	.02062	.00372	.00113	-.00073
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	5.894	.60000	2.00000	-.03693	.06764	.25729	.06864	.01203	.00430	.00132	-.00088
10.000	7.900	.60000	4.00000	-.09667	.03278	.31489	.07658	.01995	.00394	.00116	-.00090
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO.   0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	5.869	.60000	2.00000	-.05021	-.00233	.25929	.05934	.01043	.00340	.00114	-.00080
15.000	7.899	.60000	4.00000	-.03167	-.02863	.32256	.07796	.01909	.00305	.00102	-.00074
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNHM40)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000   STAB = .000   5.000
RUDDER = .000   ELEVON = .000   5.000
IORB = .000   DX = 4.000   .000
DY =   MACH = .000   .600

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

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	5.918	.60000	2.00000	.06702	.08608	.27091	.07203	.00880	.00385	.00121	-.00120
30.000	7.926	.60000	4.00000	-.10134	-.00038	.33717	.08167	.01680	.00274	.00103	-.00094
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	5.909	.60000	2.00000	-.14608	.05138	.27202	.07366	.00719	.00310	.00109	-.00104
45.000	7.898	.60000	4.00000	-.16392	.00599	.35183	.08403	.01597	.00295	.00100	-.00107
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	5.896	.60000	2.00000	-.25222	.01755	.27095	.07409	.00650	.00258	.00100	-.00090
50.000	7.883	.60000	4.00000	-.19897	-.00239	.35685	.08471	.01680	.00293	.00097	-.00107
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNHM41)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000   STAB = .000   5.000
RUDDER = .000   ELEVON = .000   5.000
IORB = .000   DX = 4.000   .000
DY =   MACH = .000   .500

RUN NO. 0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	6.005	.50000	2.00000	-.08435	-.16589	.24581	.06692	.01556	.00401	.00122	-.00055
3.500	7.943	.50000	4.00000	-.05208	-.15274	.30110	.07462	.02240	.00381	.00110	-.00054
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 0/ 0   RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	6.013	.50000	2.00000	-.10309	-.14206	.25442	.06828	.01297	.00343	.00107	-.00081
7.500	7.938	.50000	4.00000	-.06481	-.14979	.30681	.07604	.01965	.00357	.00104	-.00068
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (ZNHM41)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.500

DZ	ALPHAO	RUN NO.	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	6.065	0/ 0	.50000	2.00000	-.15398	-.12361	.25662	.06873	.01177	.00265	.00101	-.00057
10.000	7.961		.50000	4.00000	-.07332	-.13841	.31093	.07684	.01979	.00331	.00103	-.00069
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	RUN NO.	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	6.056	0/ 0	.50000	2.00000	-.15015	-.10725	.26338	.07005	.01070	.00366	.00105	-.00103
15.000	7.958		.50000	4.00000	-.07892	-.09299	.32055	.07838	.01797	.00355	.00098	-.00094
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 1.98   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	RUN NO.	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	6.043	0/ 0	.50000	2.00000	-.07040	-.11765	.27400	.07236	.00881	.00339	.00104	-.00105
30.000	7.959		.50000	4.00000	-.05100	-.12827	.33877	.08150	.01681	.00335	.00099	-.00102
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	RUN NO.	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	6.013	0/ 0	.50000	2.00000	-.07934	-.09718	.28000	.07345	.00782	.00263	.00093	-.00105
45.000	7.948		.50000	4.00000	-.09778	-.14783	.35279	.08373	.01574	.00305	.00093	-.00092
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	RUN NO.	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
50.000	5.997	0/ 0	.50000	2.00000	-.08686	-.08635	.28209	.07378	.00757	.00254	.00090	-.00114
50.000	7.941		.50000	4.00000	-.12072	-.14681	.35752	.08446	.01537	.00300	.00090	-.00091
	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 1.97   GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (ZNHM42)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA =		STAR =	5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER =	.000	ELEVON =	5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB =	.000	DX =	.000
SCALE = .0125			DY =	4.000	MACH =	.300

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.98	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
3.500	0/ 0	5.964	.30000			-.01826	-.01679	.24783	.05851	.01568	.00326	.00073	-.00040
3.500		7.936	.30000			-.00129	-.02787	.30620	.07713	.02255	.00315	.00070	-.00047
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.98	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
7.500	0/ 0	5.994	.30000			-.06493	-.04520	.25897	.06979	.01347	.00189	.00050	-.00048
7.500		7.984	.30000			-.07572	-.02685	.31786	.07887	.01997	.00266	.00071	-.00041
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.98	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
10.000	0/ 0	5.952	.30000			-.00117	-.01635	.25472	.07000	.01200	.00063	.00033	-.00084
10.000		7.994	.30000			-.08973	-.04987	.32044	.07979	.01912	.00144	.00043	-.00047
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.98	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
15.000	0/ 0	6.005	.30000			-.07846	-.02784	.26416	.07178	.01076	.00246	.00059	-.00051
15.000		7.951	.30000			-.04327	-.03544	.33075	.09097	.01819	.00252	.00056	-.00083
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.97	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
30.000	0/ 0	6.029	.30000			-.11489	-.03594	.27456	.07545	.00924	.00250	.00053	-.00097
30.000		7.979	.30000			-.07696	-.04474	.34867	.08424	.01711	.00195	.00044	-.00083
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DZ	RUN NO.	ALPHAO	MACH	RN/L = 1.97	GRADIENT INTERVAL = -5.00/ 5.00	DX	DY	CL	CD	CLM	CY	CYN	CBL
45.000	0/ 0	6.024	.30000			-.09171	-.12238	.28098	.07544	.00835	.00198	.00053	-.00073
45.000		7.983	.30000			-.05611	-.10952	.35594	.08543	.01558	.00119	.00041	-.00051
	GRADIENT		.00000			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (ZNMM42)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON =	5.000
BREF =	932.6900 IN.	ZMRP =	375.0000 IN. ZO	IORB =	4.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.300

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

	ALPHAO	MACH	ALPHAC	DX	DY	CL	CD	CLM	CY	CYN	CBL
DZ	6.030	.30000	2.00000	-.09355	-.16157	.28410	.07587	.00809	.00209	.00057	-.00050
50.000	7.978	.30000	4.00000	-.04004	-.13170	.35813	.08564	.01499	.00117	.00045	-.00042
50.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (P1M008)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA =	.000	STAB =	-1.000
LREF =	327.7800 IN	YMRP =	.0000 IN. YC	RUDDER =	.000	ELEVON =	5.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RN/L =   3.34   GRADIENT INTERVAL =   -5.00/ 5.00

	3.500								
	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL		
DZ	.000	-.10555	-.00234	.11015	-.00504	.00087	.00029		
	2.000	-.12877	-.00242	.12074	-.00192	-.00067	.00014		
	4.000	-.14336	-.00391	.12509	-.00082	-.00074	-.00016		
	GRADIENT	-.01013	-.00186	.00515	.00056	-.00035	.00004		

RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

	7.500								
	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL		
DZ	.000	-.09388	-.00133	.08593	-.00391	-.00047	-.00043		
	2.000	-.11509	-.00137	.10732	-.00177	-.00006	-.00018		
	4.000	-.12736	-.00424	.10645	-.00057	-.00001	-.00086		
	GRADIENT	-.00905	-.00203	.00383	.00034	-.00007	-.00016		

RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

	10.000								
	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL		
DZ	.000	-.08268	-.00057	.08426	-.00222	.00055	.00017		
	2.000	-.10023	-.00051	.08970	-.03245	.00002	-.00060		
	4.000	-.12044	-.00161	.09688	-.00199	.00025	-.00045		
	GRADIENT	-.01012	-.00199	.00458	.00007	-.00003	.00000		

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
LREF = 327.7800 IN.
BREF = 2348.0400 IN.
SCALE = .0125

XMRP = 1339.9000 IN. XC
YMRP = .0000 IN. YC
ZMRP = 190.7500 IN. ZC

PARAMETRIC DATA

BETA   = .000   STAB   = -1.000
RUDDER = .000   ELEVON = 5.000
IORB   = 6.000   DX   = .000
DY   = .000   MACH   = .600

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07210	.00001	.06500	-.00358	.00033	.00001
2.000	-.08796	.00031	.06920	-.00280	.00022	-.00064
4.000	-.10421	-.00046	.07791	-.00126	.00014	-.00061
GRADIENT	-.00871	.00214	.00465	.00009	.00000	.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05319	.00005	.03908	-.00455	.00039	.00081
2.000	-.06087	.00067	.04587	.00194	-.00013	-.00046
4.000	-.08023	.00028	.05020	-.00036	-.00021	-.00047
GRADIENT	-.00744	.00231	.00420	.00055	-.00010	-.00016

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04614	.00001	.02776	-.00327	.00014	.00061
2.000	-.04717	.00097	.03310	-.00106	-.00022	-.00019
4.000	-.05893	.00097	.03729	-.00138	.00000	-.00043
GRADIENT	-.00388	.00249	.00381	-.00002	.00001	-.00010

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03210	.00052	.02380	-.00320	.00017	.00030
2.000	-.04836	.00095	.03091	-.00121	-.00025	-.00001
4.000	-.05571	.00093	.03328	-.00029	-.00016	-.00011
GRADIENT	-.00658	.00236	.00379	.00023	-.00003	.00005

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ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)

(PNH029) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
ICRB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.13655	-.00523	.16426	-.00372	.00042	.00004
2.000	-.14898	-.00496	.17749	-.00269	.00017	-.00035
4.000	-.16919	-.00751	.19058	-.00355	.00023	-.00117
GRADIENT	-.00884	.00168	.00800	-.00045	.00000	-.00014

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.12240	-.00384	.14403	-.00329	.00010	.00021
2.000	-.13962	-.00404	.15587	-.00275	.00031	-.00013
4.000	-.15697	-.00581	.16492	-.00282	.00004	.00077
GRADIENT	-.00932	.00176	.00665	-.00038	.00003	-.00009

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.11033	-.00276	.12368	-.00549	.00039	.00060
2.000	-.13503	-.00363	.14223	-.00256	.00048	.00009
4.000	-.14905	-.00468	.14815	-.00205	.00014	-.00047
GRADIENT	-.01036	.00177	.00754	.00037	-.00008	-.00011

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.09567	-.00186	.10095	-.00554	.00046	.00042
2.000	-.11732	-.00179	.11682	-.00344	.00029	.00001
4.000	-.13451	-.00292	.12135	-.00231	-.00001	-.00048
GRADIENT	-.01041	.00199	.00652	.00031	-.00007	-.00006

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06075	-.00026	.05979	-.00470	.00037	.00053
2.000	-.08230	-.00013	.07172	-.00177	-.00049	.00010
4.000	-.09729	-.00054	.07691	.00036	-.00056	.00012
GRADIENT	-.00981	.00218	.00568	.00077	.00019	.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (PNH009)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = -1.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05523	-.00024	.04414	-.00468	.00036	.00054
2.000	-.06879	.00002	.05318	-.00274	-.00012	.00014
4.000	-.07439	.00023	.05527	-.00075	-.00021	-.00031
GRADIENT	-.00547	.00237	.00421	.00049	-.00009	-.00006

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04423	.00029	.03765	-.00281	.00006	.00012
2.000	-.05593	.00064	.04592	-.00173	-.00020	-.00052
4.000	-.06476	.00036	.04929	-.00032	-.00026	-.00045
GRADIENT	-.00581	.00227	.00433	.00013	-.00003	.00002

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (PNH010)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.11286	-.00405	.18564	.00011	-.00088	-.00032
2.000	-.15663	-.00735	.20337	.00032	-.00060	-.00085
4.000	-.17329	.01171	.19996	.00038	-.00044	-.00012
GRADIENT	-.01506	.00078	.00757	-.00029	.00016	-.00003

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNH010) (17 OCT 75)

REFERENCE DATA		PARAMETRIC DATA	
SPREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.10462	-.00278	.16198	-.00139	.00002	-.00041
2.000	-.13822	-.00598	.17688	.00055	-.00037	-.00048
4.000	-.15399	-.00946	.17015	.00089	-.00019	-.00008
GRADIENT	-.01229	.00103	.00628	.00021	-.00001	.00000

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.10110	-.00200	.14745	-.00243	.00064	-.00041
2.000	-.12613	-.00506	.15980	.00107	-.00021	-.00012
4.000	-.14095	-.00789	.15151	.00155	-.00001	.00010
GRADIENT	-.00991	.00122	.00525	.00064	-.00012	.00005

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07934	-.00093	.11951	-.00201	.00059	-.00057
2.000	-.10728	-.00375	.13009	-.00066	.00002	-.00030
4.000	-.12250	-.00604	.12085	.00019	.00014	-.00048
GRADIENT	-.01074	.00142	.00457	.00019	-.00007	.00006

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04430	-.00016	.06947	-.00190	.00050	-.00032
2.000	-.06592	-.00165	.07426	.00004	.00022	-.00043
4.000	-.08129	-.00307	.06908	.00037	.00032	-.00031
GRADIENT	-.00920	.00197	.00414	.00021	-.00016	-.00008

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02266	.00022	.04514	-.00251	.00049	-.00037
2.000	-.04308	-.00087	.04903	-.00018	.00012	-.00023
4.000	-.05672	-.00135	.04648	.00032	.00017	-.00045
GRADIENT	-.00846	.00230	.00457	.00035	-.00012	-.00010

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (PNH010)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02216	.00028	.04059	-.00221	.00038	-.00021
2.000	-.03970	-.00069	.04369	-.00104	-.00004	-.00021
4.000	-.04830	-.00116	.04075	.00025	-.00022	-.00015
GRADIENT	-.00649	.00234	.00428	.00026	-.00010	-.00007

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (PNH011)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06531	.00067	.05315	-.00377	.00078	.00027
2.000	-.08273	.00042	.06314	-.00107	.00008	-.00028
4.000	-.03694	-.00098	.06641	-.00025	.00034	-.00049
GRADIENT	-.00859	.00184	.00474	-.00039	-.00006	-.00003

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04655	.00083	.04231	-.00306	.00067	.00053
2.000	-.06634	.00088	.05405	-.00101	.00012	.00042
4.000	-.08388	-.00029	.05634	.00058	.00016	-.00064
GRADIENT	-.01051	.00197	.00493	.00042	-.00008	-.00013

ARC 14-120(CA23B)   747/1 AT1 02S1   (CARRIER DATA)

REFERENCE DATA	(PNHC1 (17 OCT 75)

PARAMETRIC DATA

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

BETA =	.000	STAB = -1.000
RUDDER =	.000	ELEVON = 5.000
IORB =	4.000	DX = .000
DY =	.000	MACH = .600

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04049	.00116	.04231	-.00232	.00049	.00014
2.000	-.06122	.00094	.05075	-.00070	.00006	-.00047
4.000	-.07970	.00018	.04873	.00028	.00000	-.00002
GRADIENT	-.01048	.00201	.00000	.00016	-.00005	.00011

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03786	.00145	.03255	-.00114	.00002	.00007
2.000	-.05596	.00093	.04209	-.00026	-.00017	.00017
4.000	-.07111	.00029	.04527	.00033	.00005	.00031
GRADIENT	-.00899	.00197	.00460	-.00013	.00005	-.00007

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01930	.00082	.01749	-.00294	.00041	.00046
2.000	-.03442	.00115	.02622	-.00126	.00008	.00001
4.000	-.04457	.00094	.02810	.00043	.00001	.00052
GRADIENT	-.00700	.00228	.00408	.00035	-.00006	-.00009

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00266	.00065	.01036	-.00295	.00046	.00024
2.000	-.01583	.00079	.01629	-.00025	.00004	.00034
4.000	-.02654	.00098	.01970	.00032	.00000	.00035
GRADIENT	-.00667	.00234	.00376	.00032	-.00007	.00001

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00091	.00060	.00792	-.00257	.00037	.00013
2.000	-.01008	.00059	.01311	.00030	.00012	.00039
4.000	-.02158	.00088	.01731	.00037	.00000	-.00013
GRADIENT	-.00653	.00242	.00377	.00024	-.00004	.00009

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

REFERENCE DATA

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

(PMH013) (17 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB =	5.000
RUDDER = .000	ELEVON =	5.000
IORB = 6.000	DX =	.000
DY = .000	MACH =	.600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.09258	-.00088	.12845	-.00620	.00269	-.00061
2.000	-.11841	-.00348	.13134	-.00261	.00192	-.00057
4.000	-.13707	-.00628	.12921	-.00232	.00187	-.00045
GRADIENT	-.01107	.00135	.00443	.00061	-.00016	-.00004

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07850	-.00004	.10666	-.00547	.00248	-.00055
2.000	-.10629	-.00241	.11059	-.00382	.00212	-.00024
4.000	-.12075	-.00450	.10776	-.00314	.00202	-.00020
GRADIENT	-.01051	.00158	.00452	.00023	-.00007	.00001

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07292	.00018	.09484	-.00490	.00221	-.00027
2.000	-.09562	-.00185	.09961	-.00406	.00206	-.00043
4.000	-.11148	-.00393	.09667	-.00293	.00190	-.00050
GRADIENT	-.00959	.00167	.00470	.00013	-.00003	-.00014

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06040	.00073	.07532	-.00346	.00190	-.00091
2.000	-.08634	-.00105	.07970	-.00353	.00182	-.00041
4.000	-.09842	-.00281	.07831	-.00261	.00171	-.00047
GRADIENT	-.00945	.00181	.00499	-.00015	-.00000	.00003

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02958	.00093	.04136	-.00232	.00108	-.00054
2.000	-.05357	-.00010	.04702	-.00153	.00075	-.00050
4.000	-.07101	-.00120	.04717	-.00007	.00042	-.00024
GRADIENT	-.01031	.00216	.00569	.0002	-.00012	-.00001

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ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNH013)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01683	.00082	.02786	-.00315	.00095	-.00037
2.000	-.03395	.00023	.03265	-.00120	.00052	-.00065
4.000	-.04956	-.00041	.03305	-.00013	.00025	-.00023
GRADIENT	-.00813	-.00239	.00554	.00040	.00013	-.00005

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01661	.00068	.02473	-.00294	.00094	-.00018
2.000	-.03049	.00013	.02797	-.00138	.00052	-.00002
4.000	-.04225	-.00035	.02873	-.00014	.00021	-.00006
GRADIENT	-.00636	-.00244	.00524	.00041	-.00014	-.00002

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNH020)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04246	.00235	.00659	-.00190	.00131	-.00056
2.000	-.06645	.00105	.01917	-.00089	.00089	-.00040
4.000	-.08292	-.00036	.02454	-.00080	.00080	-.00059
GRADIENT	-.01006	.00202	.00873	.00032	-.00008	-.00009

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(PNH020)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03684	.00224	.00462	-.00197	.00125	-.00053
2.000	-.05088	.00129	.01267	-.00034	.00084	-.00056
4.000	-.06999	.00036	.01673	.00096	.00071	-.00082
GRADIENT	-.00824	.00223	.00727	.00037	-.00009	-.00015

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03309	.00235	.00169	-.00080	.00105	-.00084
2.000	-.05028	.00172	.00977	-.00082	.00071	-.00089
4.000	-.06663	.00068	.01348	.00082	.00075	-.00029
GRADIENT	-.00833	.00228	.00719	.00005	-.00003	.00006

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01681	.00232	-.03215	-.00218	.00126	-.00080
2.000	-.04158	.00186	.00624	-.00951	.00084	-.00058
4.000	-.05537	.00133	.00998	-.00002	.00084	-.00035
GRADIENT	-.00959	.00245	.03727	.00018	-.00006	.00003

DZ = 30.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00613	.00185	-.00472	-.00115	.00069	-.00074
2.000	-.02210	.00150	.00197	-.00063	.00043	-.00032
4.000	-.03460	.00145	.00508	.00013	.00039	-.00054
GRADIENT	-.00707	.00260	.00669	-.00010	-.00003	-.00003

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00245	.00116	-.00250	-.00185	.00064	-.00020
2.000	-.01430	.00117	.00312	-.00049	.00033	-.00037
4.000	-.02004	.00123	.00475	.00033	.00020	-.00030
GRADIENT	-.00557	.00271	.00605	.00019	-.00006	-.00011

ARC 14-120(CA23B)   747/1 AT1 02S1   (CARRIER DATA)   (PNH020)   (17 OCT 75   )

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00665	.00092	-.00156	-.00252	.00073	.00005
2.000	-.01295	.00106	.00380	-.00068	.00037	-.00036
4.000	-.01506	.00119	.00491	.00043	.00018	-.00023
GRADIENT	-.00538	.00276	.00586	.00038	-.00009	-.00015

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B)   747/1 AT1 02S1   (CARRIER DATA)   (PNH021)   (17 OCT 75   )

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04918	.00153	-.01013	-.00335	.00125	.00033
2.000	-.06906	.00159	.00511	.00057	.00051	-.00040
4.000	-.08586	.00042	.01119	.00107	.00066	-.00078
GRADIENT	-.00985	.00198	.00675	.00051	-.00010	-.00012

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04135	.00153	-.01487	-.00166	.00035	.00006
2.000	-.05641	.00136	-.00041	.03264	.00052	.00017
4.000	-.07228	.00061	.00587	.00052	.00073	-.00074
GRADIENT	-.00841	.00202	.00661	.00005	-.00001	-.00004

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (PNH021) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03591	.00147	-.01563	-.00197	.00106	.00032
2.000	-.05249	.00118	-.00162	.00075	.00057	.00017
4.000	-.06790	.00062	.00435	.00013	.00085	-.00058
GRADIENT	-.00867	.00204	.00642	.00003	-.00000	-.00007

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01873	.00151	-.01636	-.00223	.00112	-.00030
2.000	-.04401	.00134	-.00211	-.00081	.00079	-.00036
4.000	-.06046	.00075	.00299	.00018	.00093	-.00026
GRADIENT	-.01111	.00206	.00626	.00011	.00000	.00017

DZ = 30.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01209	.00046	-.01583	-.00219	.00089	.00054
2.000	-.02790	.00077	-.00563	-.00067	.00036	-.00020
4.000	-.03976	.00053	-.00058	.00055	.00059	-.00009
GRADIENT	-.00760	.00227	.00523	.00019	-.00003	.00000

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00011	-.00004	-.01283	-.00351	.00123	.00076
2.000	-.01323	.00036	-.00496	.00043	.00044	-.00033
4.000	-.02654	.00039	-.00125	.00026	.00060	-.00020
GRADIENT	-.00734	.00236	.00432	.00045	-.00011	-.00008

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00591	-.00015	-.01140	-.00414	.00141	.00070
2.000	-.00923	.00031	-.00438	-.00002	.00054	-.00050
4.000	-.02275	.00037	-.00114	.00007	.00066	-.00025
GRADIENT	-.00764	.00239	.00399	.00056	-.00014	-.00008

ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA)   (PNH022) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
ICRB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.11035	-.00187	.12552	-.00410	.00256	-.00080
2.000	-.13755	-.00444	.13939	-.00331	.00228	-.00024
4.000	-.15081	-.00777	.14060	-.00400	.00210	-.00035
GRADIENT	-.00994	.00122	.00801	-.00033	-.00007	-.00003

DZ = 7.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.09058	-.00086	.10285	-.00414	.00233	-.00052
2.000	-.12013	-.00330	.11539	-.00280	.00194	-.00033
4.000	-.13551	-.00625	.11620	-.00273	.00188	-.00040
GRADIENT	-.01118	.00135	.00758	-.00001	-.00006	-.00005

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07660	-.00020	.03815	-.00396	.00204	-.00019
2.000	-.10898	-.00251	.09936	-.00225	.00156	-.00041
4.000	-.12593	-.00527	.10007	-.00170	.00168	-.00042
GRADIENT	-.01226	.00143	.00722	.00021	-.00004	-.00014

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06414	.00033	.06768	-.00503	.00247	-.00074
2.030	-.09029	-.00166	.07624	-.00284	.00195	-.00039
4.000	-.10787	-.00356	.07456	-.00131	.00172	-.00050
GRADIENT	-.01088	.00173	.00596	.00057	-.00014	-.00002

DZ = 30.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03403	.00088	.03361	-.00242	.00152	-.00071
2.000	-.05575	-.00024	.03923	-.00087	.00108	-.00062
4.000	-.06841	-.00132	.03821	-.00002	.00090	-.00051
GRADIENT	-.00855	.00215	.00539	.00024	-.00011	-.00003

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)

(PNH022)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01693	.00072	.01933	-.00233	.00103	-.00020
2.000	-.03422	-.00011	.02383	-.00080	.00050	.00025
4.000	-.04318	-.00071	.02385	-.00089	.00029	.00003
GRADIENT	-.00651	.00234	.00537	.00045	-.00014	-.00002

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01478	.00077	.01739	-.00228	.00093	-.00036
2.000	-.03575	-.00012	.02149	-.00100	.00052	.00012
4.000	-.04217	-.00036	.02153	-.00089	.00028	.00005
GRADIENT	-.00680	.00241	.00528	.00043	-.00012	-.00002

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)

(PNH023)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
ICRB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.3;   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07645	.00084	.07329	-.00347	.00247	-.00081
2.000	-.10357	-.00100	.07788	-.00279	.00204	-.00049
4.000	-.11748	-.00316	.07615	-.00191	.00175	-.00050
GRADIENT	-.01021	.00170	.00495	.00003	-.00013	-.00000

ARC 14-120(CA23B)   747/1 A11 02S1 (CARRIER DATA)   (PNH023)   (17 OCT 75)

REFERENCE DATA

SPEF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC
BREF =	2342.0400 IN.	ZMRP =	190.7500 IN ZC
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06310	.00141	.05333	-.00402	.00229	-.00072
2.000	-.09007	-.00050	.05878	-.00307	.00196	-.00039
4.000	-.10463	-.00214	.05758	-.00271	.00188	-.00044
GRADIENT	-.01033	.00181	.00530	-.00003	-.00006	-.00001

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05449	.00144	.04405	-.00407	.00225	-.00061
2.000	-.08259	-.00004	.05046	-.00284	.00193	-.00068
4.000	-.09302	-.00153	.05003	-.00250	.00190	-.C 053
GRADIENT	-.00958	.00195	.00573	.00003	-.00004	-.00006

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04159	.00156	.03035	-.00405	.00216	-.00027
2.000	-.06168	.00055	.03581	-.00336	.00202	-.00050
4.000	-.08106	-.00069	.03733	-.00235	.00187	-.00038
GRADIENT	-.00992	.00214	.00599	.00007	-.00002	-.00011

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02030	.00127	.01414	-.00266	.00114	-.00002
2.000	-.04768	.00053	.02034	-.00166	.00095	-.00016
4.000	-.05462	.00018	.01999	-.00059	.00083	-.00028
GRADIENT	-.00853	.00243	.00570	.00016	-.00003	-.00015

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00897	.00125	.00664	-.00176	.00094	-.00081
2.000	-.02639	.00065	.01130	-.00091	.00045	-.00007
4.000	-.03340	.00043	.01198	.00023	.00033	-.00004
GRADIENT	-.00608	.00249	.00558	.00016	-.00010	-.00011

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (PNH023)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 50.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00964	.00109	.00572	-.00164	.00076	-.00016
2.000	-.02719	.00064	.00968	-.00081	.00042	.00008
4.000	-.03380	.00049	.01035	.00010	.00041	-.00021
GRADIENT	-.00599	.00255	.00540	.00008	-.00004	-.00009

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (PNH024)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.08219	-.00060	.05450	-.00451	.00145	.00021
2.000	-.09489	-.00067	.06027	-.00140	.00063	-.00070
4.000	-.11125	-.00238	.06615	-.00068	.00086	-.00070
GRADIENT	-.00794	.00181	.00434	.00046	-.00010	-.00007

DZ = 7.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06109	.00006	.03964	-.00377	.00132	.00003
2.000	-.08394	-.00029	.04672	-.00215	.00075	-.00030
4.000	-.09993	-.00158	.05250	-.00089	.00094	-.00051
GRADIENT	-.01039	.00185	.00464	.00023	-.00005	.00003

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNH024)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05175	.00005	.03209	-.00496	.00161	.00045
2.000	-.07454	-.00013	.03931	-.00199	.00091	-.00016
4.000	-.09403	-.00133	.04528	-.00159	.00109	-.00038
GRADIENT	-.01125	.00191	.00472	.00035	-.00008	-.00005

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04562	.00015	.02309	-.00466	.00146	.00040
2.000	-.06321	.00006	.02960	-.00278	.00110	-.00014
4.000	-.07857	-.00074	.03551	-.00140	.00115	-.00064
GRADIENT	-.00892	.00203	.00453	.00032	-.00003	-.00010

DZ = 30.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02051	.00023	.00745	-.00370	.00113	.00004
2.000	-.04117	.00023	.01683	-.00105	.00056	-.00016
4.000	-.05510	-.00020	.02139	-.00040	.00056	-.00039
GRADIENT	-.00933	.00215	.00491	.00033	-.00009	.00005

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01176	-.00021	.00346	-.00333	.00098	.00036
2.000	-.02408	.00011	.00973	-.00052	.00020	-.00045
4.000	-.03734	-.00024	.01337	.00076	.00025	-.00037
GRADIENT	-.00707	.00225	.00390	.00053	-.00014	-.00002

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00796	-.00013	.00136	-.00267	.00086	.00007
2.000	-.02128	.00012	.00806	-.00350	.00014	-.00055
4.000	-.03215	-.00020	.01261	.00023	.00034	-.00048
GRADIENT	-.00673	.00224	.00423	.00023	-.00008	-.00002

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNH025) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	= .000	STAB	= -1.000
RUDDER	= .000	ELEVON	= .000
IORB	= 8.000	DX	= .000
DY	= .000	MACH	= .600

D2

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.12027	-.00416	.10446	-.00360	.00060	.00088
2.000	-.12188	-.00386	.11722	-.00368	.00069	.00088
4.000	-.15207	-.00592	.13218	-.00245	.00057	-.00028
GRADIENT	-.00863	.00181	.00835	.00021	.00004	-.00013

DZ

PN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.09543	-.00268	.08536	-.00457	.00095	.00056
2.000	-.11434	-.00307	.09970	-.00388	.00073	.00032
4.000	-.13605	-.00483	.11197	-.00220	.00067	-.00033
GRADIENT	-.01083	.00172	.00808	.00010	-.00002	-.00006

DZ

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07664	-.00167	.07293	-.00546	.00121	.00034
2.000	-.11259	-.00268	.08912	-.00441	.00079	.00006
4.000	-.12595	-.00410	.09871	-.00171	.00063	-.00048
GRADIENT	-.01301	.00165	.00737	.00044	-.00010	-.00005

DZ

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06696	-.00107	.05582	-.00479	.00123	.00031
2.000	-.08887	-.00135	.06760	-.00307	.00069	-.00053
4.000	-.10802	-.00306	.07815	-.00294	.00121	.00005
GRADIENT	-.01094	.00176	.00701	-.00003	.00004	.00009

DZ

RN/L = 3.3+   GRADIENT INTERVAL = -5.00/ 5.00

30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04201	-.00062	.02872	-.00405	.00115	.00024
2.000	-.06529	-.00086	.03956	-.00175	.00060	.00006
4.000	-.07740	-.00167	.04578	-.00119	.00079	-.00003
GRADIENT	-.00952	.00199	.00559	.00022	-.00004	.00009

ARC 14-120(CA23B)   747/1 ATI 02S1 (CARRIER DATA)   (PNH 25)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02757	-.00073	.01714	-.00328	.00084	.00032
2.000	-.04018	-.00057	.02430	.00002	.00012	.00021
4.000	-.05563	-.00120	.02904	-.00007	.00032	-.00011
GRADIENT	-.00769	.00214	.00462	.00031	-.00003	.00005

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02328	-.00086	.01517	-.00497	.00115	.00063
2.000	-.03329	-.00072	.02209	-.00146	.00041	.00027
4.000	-.04848	-.00110	.02677	.00024	.00027	-.00012
GRADIENT	-.00698	.00219	.00432	.00081	-.00017	-.00003

ARC 14-120(CA23B)   747/1 ATI 03S1 (CARRIER DATA)   (PNH027)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.10338	-.00239	.13402	-.00787	.00286	.00028
2.000	-.11590	-.00374	.14247	-.00159	.00190	-.00160
4.000	-.13498	-.00744	.14357	-.00398	.00182	-.00016
GRADIENT	-.00785	.00144	.00663	.00061	-.00022	-.00019

ARC 14-120(CA23B)   747/1 ATI 0351 (CARRIER DATA)   (PNH027)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.08771	-.00118	.11286	-.00540	.00224	-.00025
2.000	-.10785	-.00310	.12188	-.00287	.00182	-.00072
4.000	-.12598	-.00612	.12152	-.00323	.00174	-.00013
GRADIENT	-.00952	-.00146	.00641	-.00018	-.00008	-.00005

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07759	-.00037	.09954	-.00385	.00190	-.00063
2.000	-.10396	-.00277	.10908	-.00415	.00190	-.00011
4.000	-.12214	-.00528	.10694	-.00266	.00174	-.00007
GRADIENT	-.01109	-.00147	.00609	-.00006	.00001	-.00006

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06292	.00009	.07802	-.00317	.00165	-.00079
2.000	-.08762	-.00164	.08407	-.00323	.00130	-.00042
4.000	-.10421	-.00371	.08245	-.00146	.00118	-.00024
GRADIENT	-.01027	-.00175	.00535	-.00007	-.00007	-.00006

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03462	.00033	.04236	-.00213	.00106	-.00060
2.000	-.06006	-.00094	.04761	-.00173	.00081	-.00007
4.000	-.07095	-.00169	.04605	-.00081	.00087	-.00015
GRADIENT	-.00903	-.00219	.00516	-.00003	-.00000	-.00003

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01241	-.00044	.02536	-.00124	.00057	-.00066
2.000	-.03534	-.00058	.03009	.00003	.00005	-.00002
4.000	-.07095	-.00116	.02991	-.00006	.00024	-.00003
GRADIENT	-.00035	.00230	.00538	-.00006	-.00003	.00009

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (PNH027)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = .000	5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000	.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = .000	.000
SCALE = .0125		DY = .000	MACH = .600

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02333	-.00018	.02664	-.00182	-.00050	-.00046
2.000	-.03781	-.00069	.02725	-.00024	-.00003	-.00021
4.000	-.03986	-.00071	.02647	-.00032	-.00014	-.00024
GRADIENT	-.00408	.00256	.00420	.00018	-.00005	-.00002

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (PNH034)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = .000	5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000	.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 6.000	DX = .000	.000
SCALE = .0125		DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.09176	.00069	.07949	-.00027	-.00007	-.00009
2.000	-.10280	-.00127	.08225	.00123	-.00020	-.00022
4.000	-.12045	-.00323	.07867	.00162	-.00019	-.00042
GRADIENT	-.00952	.00172	.00404	.00011	.00002	-.00016

DZ = 7.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06582	.00127	.05986	-.00017	.00027	-.00076
2.000	-.08938	-.00060	.06549	.00033	.00019	-.00022
4.000	-.10548	-.00237	.06298	.00004	.00033	-.00018
GRADIENT	-.09987	.00179	.03502	-.00031	.00008	.00006

ARC 14-120(CA23B) 747/1 ATI O3S1 (CARRIER DATA)   (PNHO34)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05867	.00118	.05368	-.00091	.00050	-.00038
2.000	-.08526	-.00051	.05903	-.00034	.00034	-.00027
4.000	-.09956	-.00185	.05568	-.00037	.00060	-.00024
GRADIENT	-.01020	.00194	.00474	-.00022	.00007	-.00005

DZ = 15.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05107	.00123	.04150	-.00166	.00099	-.00075
2.000	-.06975	.00000	.04577	-.00043	.00084	-.00066
4.000	-.08365	-.00107	.04486	-.00025	.00106	-.00027
GRADIENT	-.00810	.00212	.00508	-.00000	.00006	-.00004

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02784	.00127	.02261	.00039	.00013	-.00085
2.000	-.04641	.00034	.02591	.00071	.00012	-.00026
4.000	-.05579	-.00018	.02529	.00003	.00056	-.00057
GRADIENT	-.00694	.00234	.03491	-.00045	.00010	-.00001

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01240	.00096	.01280	.00050	.00008	-.00065
2.000	-.02912	.00019	.01704	.00022	.00015	.00004
4.000	-.03841	-.00012	.01739	.00061	.00005	-.00002
GRADIENT	-.06845	.00243	.00539	-.00033	.00001	.00008

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01233	.00062	.01264	-.00102	.00030	-.00019
2.000	-.02872	.00006	.01529	.00023	.00004	.00011
4.000	-.03397	-.00032	.01522	.00081	.00002	-.00042
GRADIENT	-.00545	.00246	.00499	.00010	-.00002	.00007

ARC 14-120(CA23B)　747/1 AT1 035I (CARRIER DATA)

(FNH035)　(17 OCT 75　)

REFERENCE DATA

SREF	=	5500.0000 SQ.FT.
LREF	=	327.7800 IN.
BREF	=	2348.0400 IN.
SCALE	=	.0125

XMRP	=	1339.9000 IN. XC
YMRP	=	.0000 IN. YC
ZMRP	=	190.7500 IN. ZC

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	4.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05055	.00248	.01200	-.00077	.00122	-.00108
2.000	-.07181	.00113	.02636	-.00103	.00100	-.00039
4.000	-.08455	-.00019	.02715	-.00064	.00117	-.00051
GRADIENT	-.00845	.00203	.00803	-.00033	.00006	.00006

DZ = 7.500　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.03392	.00258	.00436	-.00096	.00133	-.00101
2.000	-.06000	.00116	.01949	-.00037	.00104	-.00042
4.000	-.07521	.00029	.02134	-.00068	.00127	-.00079
GRADIENT	-.01027	.00212	.00849	-.00029	.00003	-.00002

DZ = 10.000　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02751	.00231	.00295	-.00140	.00129	-.00039
2.000	-.05020	.00115	.01516	-.00015	.00109	-.00049
4.000	-.06614	.00024	.01796	-.00042	.00137	-.00075
GRADIENT	-.00961	.00218	.00799	-.00011	.00007	-.00017

DZ = 15.000　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02052	.00214	.00012	-.00092	.00152	-.00093
2.000	-.04170	.00130	.01242	-.00028	.00141	-.00111
4.000	-.05669	.00056	.01491	-.00094	.00157	-.00061
GRADIENT	-.00899	.00230	.00794	-.00036	.00006	-.00000

DZ = 30.000　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00986	.00140	-.00353	-.00009	.00057	-.00012
2.000	-.02676	.00080	.00508	.00125	.00020	-.00004
4.000	-.03267	.00057	.00690	.00094	.00049	-.00018
GRADIENT	-.00565	.00249	.00685	-.00010	.00003	-.00009

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REFERENCE DATA

(PNH035)   (17 OCT 75)

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

PN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00108	.00121	-.00477	.00043	.00032	-.00054
2.000	-.02278	.00041	.00411	.00074	.00020	-.00040
4.000	-.02533	.00029	.00499	.00124	.00027	-.00020
GRADIENT	-.00655	.00247	.00668	-.00015	.00003	-.00001

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	.00492	.00121	-.00517	.00071	.00033	-.00094
2.000	-.02260	.00031	.00449	.00034	.00038	-.00074
4.000	-.02448	.00022	.00491	.00106	.00033	-.00024
GRADIENT	-.00730	.00245	.00676	-.00027	.00004	-.00010

REFERENCE DATA

(PNH036)   (18 MAR 76)

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09419	-.00025	.08192	.02635	-.01726	.00277
4.000	-.10989	-.00200	.07581	.02962	-.01764	.00324
GRADIENT	-.01041	.00288	.00505	.00142	-.00020	.00018

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08323	.00036	.06576	.02823	-.01815	.00296
4.000	-.09658	-.00089	.06187	.02938	-.01832	.00284
GRADIENT	-.01075	.00312	.00617	.00036	-.00009	-.00012

(PNH036)   (18 MAR 76)

ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	10.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 10.000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07242	.00062	.05972	.02850	-.01848	.00323
4.000	-.09137	-.00048	.05734	.02973	-.01847	.00344
GRADIENT	-.01204	.00320	.00693	.00041	-.00000	.00005

DZ = 15.000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06024	.00105	.04830	.02887	-.01873	.00354
4.000	-.07264	.00042	.04530	.03031	-.01868	.00325
GRADIENT	-.00876	.00343	.00661	.00051	.00002	-.00020

DZ = 30.000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03298	.00121	.02941	.03170	-.02057	.00401
4.000	-.04568	.00113	.02913	.03291	-.02037	.00374
GRADIENT	-.00891	.00371	.00797	.00039	.00010	-.00020

DZ = 45.000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02449	.00107	.01978	.03214	-.02106	.00439
4.000	-.03794	.00124	.02071	.03458	-.02108	.00382
GRADIENT	-.00928	.00383	.00858	.00101	-.00002	-.00034

DZ = 50.000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03181	.00105	.02120	.03181	-.02113	.00395
4.000	-.02547	.00154	.01916	.03429	-.02093	.00374
GRADIENT	.00061	.00399	.00709	.00103	.00009	-.00016

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (PNH037) (17 OCT 75)

REFERENCE DATA

SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC
BREF =	2348.0400 IN.	ZMRP =	100.7500 IN. ZC
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07554	.00021	.06014	-.00285	.00080	-.00011
2.000	-.09217	-.00011	.06301	-.00332	.00085	-.00041
4.000	-.11111	-.00164	.06608	-.00125	.00096	-.00058
GRADIENT	-.09957	.00179	.00291	-.00010	.00009	-.00004

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05948	.00048	.04779	-.00458	.00143	-.00021
2.000	-.07667	.00046	.04979	-.00231	.00091	-.00085
4.000	-.09551	-.00090	.05515	-.00248	.00129	-.00097
GRADIENT	-.09969	.00191	.00326	.00003	.00001	-.00003

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05398	.00058	.04192	-.00435	.00145	-.00034
2.000	-.07804	.00014	.04670	-.00433	.00139	-.00020
4.000	-.08896	-.00070	.05046	-.00325	.00145	-.00077
GRADIENT	-.00942	.00194	.00355	-.00022	.00005	-.00035

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04179	.00062	.03251	-.00487	.00175	-.00026
2.000	-.06741	.00053	.03683	-.00310	.00139	-.00095
4.000	-.08017	-.00016	.04108	-.00381	.00173	-.00115
GRADIENT	-.01027	.00206	.00357	-.00023	.00004	-.00006

DZ = 30.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02242	.00042	.01381	-.00411	.00112	.00010
2.000	-.04793	.00038	.02198	-.00158	.00046	-.00045
4.000	-.05420	.00018	.02471	-.00213	.00082	-.00052
GRADIENT	-.00802	.00220	.00415	.00000	-.00003	-.00002

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (PNH037)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	-1.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	ELEVON	=	.000
BREF	=	238.0400 IN.	ZMRP	=	190.7500 IN. ZC	IORB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02878	-.00035	.01040	-.00306	.00068	.00004
2.000	-.02746	.00030	.01248	-.00120	.00024	-.00034
4.000	-.03119	.00017	.01561	-.00123	.00033	-.00059
GRADIENT	-.00128	.00238	.00263	-.00004	-.00004	.00000

RN/L =   3.31   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01066	-.00001	.00546	-.00436	.00092	.00025
2.000	-.02716	.00025	.01208	-.00080	.00017	-.00033
4.000	-.03250	.00037	.01478	-.00063	.00023	-.00054
GRADIENT	-.00614	.00235	.00375	.00004	-.00013	-.00004

ARC 14-120(CA23B) 747/1 ATI 0351 (CARRIER DATA)   (PNH038)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XMRP	=	1339.9000 IN. XC	BETA	=	.000	STAB	=	5.000
LREF	=	327.7800 IN.	YMRP	=	.0000 IN. YC	RUDDER	=	.000	ELEVON	=	5.000
BREF	=	238.0400 IN.	ZMRP	=	190.7500 IN. ZC	ICRB	=	6.000	DX	=	.000
SCALE	=	.0125				DY	=	.000	MACH	=	.600

RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

DZ =   3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.08708	-.00077	.13998	.00063	-.00047	-.00035
2.000	-.11473	-.00339	.13637	.00205	-.00040	-.00038
4.000	-.13275	-.00607	.13084	.00289	-.00054	-.00045
GRADIENT	-.01137	.00137	.00196	.00021	.00003	-.00011

ARC 14-120(CA23B)   747/1 AT1 03S1 (CARRIER DATA)

REFERENCE DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 7.500   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07588	-.00041	.11742	-.00034	.00024	-.00056
2.000	-.09462	-.00246	.11315	.00114	.00000	-.00057
4.000	-.11251	-.00474	.10862	.00255	-.00033	-.00084
GRADIENT	-.00911	.00161	.00204	.00031	-.00010	-.00015

DZ = 10.000   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05771	-.00024	.10640	.00020	.00042	-.00073
2.000	-.09095	-.00199	.10403	.00077	.00012	-.00057
4.000	-.10664	-.00417	.09920	.00158	.00016	-.00066
GRADIENT	-.00968	.00171	.00244	-.00001	-.00010	-.00006

DZ = 15.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.07253	-.00042	.08978	-.00043	.00035	-.00065
2.000	-.07898	.00154	.09484	.00080	.00008	-.00053
4.000	-.08483	-.00325	.07967	.00071	.00009	-.00038
GRADIENT	-.00402	.00199	.00171	-.00007	-.00002	-.00001

CZ = 30.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02582	.00031	.04744	-.00145	.00056	-.00028
2.000	-.04724	-.00072	.04744	-.00018	.00014	-.00022
4.000	-.06749	-.00177	.04674	-.00053	.00023	-.00004
GRADIENT	-.01037	.00218	.00407	-.00013	-.00004	-.00002

DZ = 45.000   RN/L =   3.31   GRADIENT INTERVAL =   -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.01064	.00037	.07808	-.00105	.00064	-.00072
2.000	-.03573	-.00026	.03038	-.00010	.00030	-.00071
4.000	-.04273	-.00079	.02302	.00062	.00013	-.00041
GRADIENT	-.00798	.00241	.00447	.00006	-.00008	-.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (PNH038)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.00820	.00056	.02507	-.00048	.00045	-.00096
2.000	-.02403	-.00010	.02605	.00017	.00012	-.00064
4.000	-.04047	-.00070	.02577	.00020	.00020	-.00001
GRADIENT	-.00802	.00238	.00441	-.00019	-.00002	.00016

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (PNH039)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = 10.000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11837	-.00315	.12847	.03003	-.01727	.00238
4.000	-.13802	-.00572	.13084	.03067	-.01732	.00274
GRADIENT	-.01239	.00246	.00930	.00011	-.00003	.00012

RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10278	-.00208	.11360	.03185	-.01852	.00323
4.000	-.11473	-.00371	.10793	.03453	-.01928	.00263
GRADIENT	-.00853	.00293	.00528	.00118	-.00034	-.00036

RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09368	-.00132	.10274	.03225	-.01923	.00325
4.000	-.11934	-.00319	.09901	.03437	-.01964	.00310
GRADIENT	-.01539	.00281	.00625	.00085	-.00021	-.00013

APC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNH039) (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SPEF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = 10.000	ELEVON = 5.000
BPEF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07877	-.00070	.08259	.03341	-.02023	.00381
4.000	-.09926	-.00198	.07973	.03481	-.02031	.00353
GRADIENT	-.01280	.00311	.00668	.00049	-.00005	-.00020

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05492	-.00039	.04813	.03495	-.02143	.00401
4.000	-.06364	-.00009	.04576	.03686	-.02161	.00440
GRADIENT	-.00692	.00351	.00693	.00075	-.00010	.00014

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03315	.00061	.03064	.03538	-.02159	.00410
4.000	-.04841	.00054	.03150	.03631	-.02146	.00366
GRADIENT	-.01019	.00372	.00854	.00025	.00006	-.00028

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03217	.00067	.02842	.03454	-.02142	.00403
4.000	-.04520	.00059	.02847	.03672	-.02135	.00384
GRADIENT	-.00907	.00371	.00814	.00058	.00003	-.00015

ARC 14-120(CA23B)   747/1 ATI 0251 (CARRIER DATA)

REFERENCE DATA

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

PARAMETRIC DATA   (PNH040)   (17 OCT 75)

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVCN = 5.000
IORB = 4.000	DX = .000
DY = .000	MACH = .600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.06850	.00111	.06606	.00239	-.00034	-.00083
2.000	-.08363	-.00045	.07238	.00262	-.00053	-.00071
4.000	-.09951	-.00245	.06787	.00353	-.00066	-.00059
GRADIENT	-.00770	.00181	.00469	-.00007	-.00003	-.00002

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.05079	.00159	.05280	.00309	-.00090	-.00108
2.000	-.07586	-.00013	.06089	.00204	-.00050	-.00043
4.000	-.09062	-.00187	.05721	.00333	-.00066	-.00045
GRADIENT	-.00991	.00183	.00534	-.00030	.00011	.00008

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04373	.00134	.04509	.00372	-.00107	-.00062
2.000	-.07057	-.00015	.05368	.00257	-.00071	-.00013
4.000	-.08332	-.00148	.04399	.00325	-.00063	-.00055
GRADIENT	-.00985	.00199	.00546	-.00047	.00016	-.00006

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.04724	.00100	.03787	.00174	-.00073	-.00072
2.000	-.05289	-.00030	.04014	.00249	-.00056	-.00046
4.000	-.07027	-.00087	.03968	.00271	-.00044	-.00038
GRADIENT	-.00571	.00223	.00469	-.00012	.00012	.00000

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
.000	-.02835	.00075	.01809	.00121	-.00005	-.00062
2.000	-.03651	-.00041	.02112	.00143	-.00013	-.00006
4.000	-.04987	-.00016	.02163	.00088	.00023	-.00017
GRADIENT	-.00633	.00247	.00513	-.00044	.00012	.00003

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                        ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (PNH040)   (17 OCT 75)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   = .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER = .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN. ZC   IORB   = 4.000   DX   = .000
SCALE =   .0125   DY   = .000   MACH   = .600

                RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000
ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
  .000   -.01897   .00043   .01270   .00068   .00026   -.00066
 2.000   -.02967   .00026   .01445   .00123   .00005   -.00061
 4.000   -.03304   .00026   .01310   .00177   .00019   -.00031
GRADIENT -.00347   .00266   .00434   -.00009   .00003   .00001

                RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000
ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
  .000   -.01784   .00032   .01213   .00020   .00036   -.00075
 2.000   -.02665   .00025   .01243   .00122   .00009   -.00090
 4.000   -.02714   .00039   .01069   .00231   .00011   -.00034
GRADIENT -.00227   .00272   .00388   .00017   -.00002   -.00002

                        ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (PNHX10)   (17 OCT 75)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   = .000   STAB   = 5.000
LREF = 327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER = .000   ELEVON = 5.000
BREF = 2348.0400 IN.   ZMRP = 190.7500 IN. ZC   IORB   = 8.000   DX   = .000
SCALE =   .0125   DY   = .000   MACH   = .600

                RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500
ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
 2.000   -.15651   -.00734   .20325   .00021   -.00054   -.00084
 4.000   -.17325   -.01169   .19891   .00030   -.00039   -.00013
GRADIENT -.01093   .00157   .00594   -.00017   .00007   .00030

                RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500
ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
 2.000   -.13814   -.00597   .17674   .00045   -.00032   -.00048
 4.000   -.15385   -.00944   .17012   .00081   -.00015   -.00008
GRADIENT -.01042   .00201   .00480   -.00003   .00008   .00014

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNHX10)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.12603	-.00505	.15970	.0098	-.00017	-.00012
4.000	-.14075	-.00787	.15154	.00150	.00001	.00009
GRADIENT	-.00992	.00233	.00403	.00005	.00009	.00005

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10734	-.00374	.12997	-.00075	.00006	-.00030
4.000	-.12231	-.00601	.12083	.00012	.00018	-.00048
GRADIENT	-.01004	.00261	.00355	.00023	.00005	-.00015

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06579	-.00163	.07421	.00001	-.00021	-.00043
4.000	-.08112	-.00304	.06909	.00035	-.00031	-.00030
GRADIENT	-.01023	.00305	.00555	-.00004	-.00006	.00001

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04294	-.00086	.04897	-.00020	-.00011	-.00022
4.000	-.05651	-.00132	.04544	.00031	-.00016	-.00042
GRADIENT	-.00934	.00352	.05685	.00004	-.00003	-.00016

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03966	-.00069	.04358	-.00105	-.00003	-.00021
4.000	-.04817	-.00114	.04074	.00024	-.00022	-.00015
GRADIENT	-.00681	.00352	.03664	.00044	-.00010	-.00003

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (PNHX13) (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC		RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		IORB = 6.000	DX = .000
SCALE = 0.025			DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11851	-.00351	.13180	-.00233	.00175	-.00058
4.000	-.13691	-.00631	.12936	-.00218	.00179	-.00044
GRADIENT	-.01176	.00235	.00639	-.00013	.00002	.00001

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10638	-.00243	.11096	-.00361	.00201	-.00024
4.000	-.12074	-.00455	.10800	-.00292	.00192	-.00021
GRADIENT	-.00974	.00269	.00663	.00013	-.00005	-.00004

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09571	-.00188	.03986	-.00385	.00197	-.00042
4.000	-.11139	-.00395	.09679	-.00276	.00183	-.00050
GRADIENT	-.01040	.00271	.00658	.00033	-.00008	-.00010

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08620	-.00108	.07999	-.00335	.00172	-.00041
4.000	-.09033	-.00283	.07835	-.00248	.00165	-.00047
GRADIENT	-.00862	.00287	.00730	.00022	-.00004	-.00009

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05353	-.00012	.04707	-.00145	.00072	-.00049
4.000	-.07056	-.00120	.04705	-.00005	.00041	-.00024
GRADIENT	-.01113	.00321	.00811	.00049	.00016	.00007

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNHX13)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03409	.00020	.03266	-.00111	.00050	-.00064
4.000	-.04918	-.00040	.03283	-.00009	.00024	-.00024
GRADIENT	-.01010	.00344	.00820	.00030	-.00013	.00014

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03028	.00013	.02780	-.00133	.00050	-.00004
4.000	-.04180	-.00034	.02850	.00016	.00020	-.00005
GRADIENT	-.00832	.00351	.00847	.00053	-.00015	-.00001

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNHX14)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	10.000
DY =	.000	MACH =	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10849	-.00461	.13250	-.00409	.00295	-.00047
4.000	-.11652	-.00651	.13015	-.00326	.00275	-.00062
GRADIENT	-.00657	.00280	.00694	.00020	-.00011	-.00013

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09683	-.00246	.10559	-.00379	.00284	-.00096
4.000	-.10206	-.00449	.10729	-.00328	.00277	-.00070
GRADIENT	-.01018	.00273	.00896	.00005	-.00004	-.00008

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (PNHX14)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	BETA =	STAB = 5.000
BREF = 2342.0400 IN.	ZMRP = 190.7500 IN. ZC	RUDDER =	ELEVON = 5.000
SCALE = .0125		IORB =	DX = 10.000
		CY =	MACH = .600

		.000				STAB =	5.000	
		.000				ELEVON =	5.000	
		6.000				DX =	10.000	
		.000				MACH =	.600	

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08231	-.00184	.09492	-.00572	.00310	-.00081
4.000	-.09580	-.00336	.09488	-.00408	.00279	-.00062
GRADIENT	-.00931	.00299	.00810	.00061	.00016	.00004

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07215	-.00113	.07447	-.00572	.00240	-.00044
4.000	-.07859	-.00219	.07230	-.00250	.00213	-.00068
GRADIENT	-.00578	.00322	.00703	.00040	.00014	-.00018

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03798	.00009	.03742	-.00172	.00088	-.00034
4.000	-.05088	-.00036	.04107	-.00084	.00072	.00021
GRADIENT	-.00903	.00352	.00994	.00023	-.00008	.00001

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02080	.00025	.02457	-.00253	.00050	.00015
4.000	-.03216	.00046	.02624	-.00039	.00047	-.00030
GRADIENT	-.00474	.00385	.00945	.00056	-.00007	-.00028

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01724	.00064	.02041	-.00128	.00053	-.00024
4.000	-.02700	.00060	.02402	-.00056	.00042	.00009
GRADIENT	-.00203	.00373	.00992	.00015	-.00006	.00011

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/I AT1 O2S1 (CARRIER DATA)

(P44X15)   (17 OCT '5

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	10.000
C.	=	.000	MACH	=	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.13389	-.00730	.20400	-.00545	.00294	-.00036
4.000	-.15157	-.01023	.20794	-.00201	.00215	-.00088
GRADIENT	-.01140	.00229	.01008	.00151	-.00040	-.00032

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11657	-.00541	.17481	-.00441	.00260	-.00040
4.000	-.13054	-.00789	.17656	-.00244	.00207	-.00075
GRADIENT	-.00954	.00251	.00899	.00077	-.00027	-.00023

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10480	-.00407	.15664	-.00399	.00243	-.00034
4.000	-.11654	-.00632	.15633	-.00291	.00204	-.00059
GRADIENT	-.00843	.00262	.00796	.00033	-.00020	-.00018

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08730	-.00266	.12550	-.00280	.00203	-.00103
4.000	-.09666	-.00419	.12307	-.00229	.00185	-.00085
GRADIENT	-.00724	.00298	.00690	.00004	-.00010	.00003

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05226	-.00073	.07039	-.00187	.00058	.00014
4.000	-.06486	-.00153	.05934	-.00030	.00030	.00009
GRADIENT	-.00886	.00335	.00759	.00057	-.00014	-.00008

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (PNHX15)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC	IORB = 8.000	DX = 10.000
SCALE = .0125		DY = .000	MACH = .600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03273	-.00008	.04405	-.00130	.00028	-.00017
4.000	-.04563	-.00045	.04482	.00000	.00011	.00027
GRADIENT	-.00901	.00356	.00850	.00044	-.00009	.00016

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02978	.00004	.03906	-.00110	.00009	-.00007
4.000	-.03811	-.00007	.03987	-.00008	.00001	-.00009
GRADIENT	-.00673	.00369	.00852	.00038	-.00004	-.00007

ARC 14-120(CA23B)   747/1 AT1 O2S1 (CARRIER DATA)   (PNHX16)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 11 ZC	IORB = 6.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08552	-.00491	.13195	-.00519	.00278	-.00051
4.000	-.09736	-.00602	.13519	-.00351	.00233	-.00053
GRADIENT	-.00848	.00319	.00973	.00063	-.00023	-.00007

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07171	-.00224	.10653	-.00440	.00243	-.00041
4.000	-.08042	-.00383	.10970	-.00302	.00214	-.00050
GRADIENT	-.00941	.00296	.00970	.00047	-.00015	-.00010

ARC 14-120(CA23B) 747/1 ATI 0251 (CARRIER DATA)   (PNHX16)   17 OCT 75

REFERENCE DATA		PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2342.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = 20.000
SCALE = .0125		DY = .000	MACH = .600

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07026	-.00143	.09418	-.00512	.00249	-.00048
4.000	-.08071	-.00288	.09778	-.00304	.00209	-.00059
GRADIENT	-.00778	.00302	.00991	.00083	-.00021	-.00011

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05316	-.00075	.07331	-.00438	.00202	-.00020
4.000	-.06762	-.00177	.07710	-.00205	.00161	-.00084
GRADIENT	-.00979	.00324	.01001	.00095	-.00021	-.00038

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03280	.00058	.03929	-.00228	.00067	-.00015
4.000	-.04557	-.00016	.04416	-.00101	.00040	.00008
GRADIENT	-.00894	.00338	.01055	.00042	-.00014	.00005

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01689	.00100	.02442	-.00177	.00036	-.00005
4.000	-.02678	.00074	.02949	.00002	.00011	-.00003
GRADIENT	-.00750	.00362	.01065	.00069	-.00013	-.00005

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01908	.00067	.02170	-.00211	.00040	.00012
4.000	-.02258	.00098	.02650	.00007	.00010	.00018
GRADIENT	-.00486	.00390	.01051	.00088	-.00016	-.00003

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)

(PNHX17) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 20.000
DY = .000	MACH = .600

DZ = 3.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.12225	-.00860	.19598	-.00401	.00189	-.00100
4.000	-.12333	-.01098	.21128	.00100	.00137	-.00036
GRADIENT	-.00310	.00256	.01576	.00229	-.00027	.00026

DZ = 7.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10310	-.00646	.17056	-.00308	.00168	-.00067
4.000	-.11183	-.00886	.18003	-.00020	.00132	-.00057
GRADIENT	-.00692	.00255	.01285	.00123	-.00018	-.00001

DZ = 10.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09972	-.00484	.15481	-.00254	.00154	-.00034
4.000	-.10376	-.00737	.15900	-.00116	.00129	-.00079
GRADIENT	-.00958	.00248	.0.021	.00048	-.00013	-.00028

DZ = 15.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08110	-.00361	.12518	-.00175	.00121	-.00072
4.000	-.09245	-.00558	.12850	-.00125	.00113	-.00048
GRADIENT	-.00823	.00276	.00977	.00004	-.00004	.00006

DZ = 30.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05256	-.00172	.07162	-.00133	.00133	.00022
4.000	-.05960	-.00261	.07305	.00143	-.00029	-.00010
GRADIENT	-.00608	.00330	.00883	.00117	-.00022	.00022

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNHX17)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   =   5.000
LREF =   327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON =   5.000
BREF = 2348.0400 IN.   ZMRP =   190.7500 IN. ZC   IORB   = 8.000   DX   = 20.000
SCALE =   .0125   DY   =   .000   MACH   =   .600

                    RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 45.000
        ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
         2.000   -.05056   -.00074   .04431   -.00094   .00007   -.00040
         4.000   -.03995   -.00099   .04792   .09081   -.00018   -.00063
        GRADIENT   -.00725   .03363   .00992   .00067   -.00013   -.00017

                    RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 50.000
        ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
         2.000   -.03315   -.00082   .04949   -.00095   -.00005   .00006
         4.000   -.04031   -.00109   .04331   .00014   -.00010   .00005
        GRADIENT   -.00614   .00361   .00362   .00034   -.00003   -.00011

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)   (PNHX27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.   XMRP = 1339.9000 IN. XC   BETA   =   .000   STAB   =   5.000
LREF =   327.7800 IN.   YMRP =   .0000 IN. YC   RUDDER =   .000   ELEVON =   .000
BREF = 2348.0400 IN.   ZMRP =   190.7500 IN. ZC   IORB   = 8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

                    RN/L =   3.31   GRADIENT INTERVAL =   -5.00/ 5.00

DZ =   3.500
        ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
         2.000   -.11637   -.00378   .14249   -.00152   .00183   -.00155
         4.000   -.13470   -.00744   .14389   -.00395   .00183   -.00018
        GRADIENT   -.01173   .00192   .00881   -.00142   -.00001   .00062

                    RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

DZ =   7.500
        ALPHAC   DCL   DCD   DCLM   DCY   DCYN   DCBL
         2.000   -.10797   -.00311   .12178   -.00282   .00178   -.00071
         4.000   -.12585   -.00612   .12162   -.00318   .00173   -.00014
        GRADIENT   -.01150   .00224   .00804   -.00040   -.00003   .00023

ARC 14-120(CA23B)   747/1 AT1 O3S1 (CARRIER DATA)   (PNHX27)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000   PN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10403	-.00277	.10901	-.00411	.00188	.00011
4.000	-.12214	-.00526	.10684	-.00263	.00172	-.00006
GRADIENT	-.01162	.00250	.00703	.00053	-.00008	-.00015

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08662	-.00164	.08405	-.00321	.00130	-.00042
4.000	-.10408	-.00371	.08253	-.00149	.00119	-.00025
GRADIENT	-.01129	.00271	.00735	.00065	-.00006	.00003

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05995	-.00093	.04756	-.00171	.00081	.00006
4.000	-.07088	-.00168	.04607	-.00081	.00087	-.00016
GRADIENT	-.00803	.00337	.00737	.00024	.00002	-.00017

DZ = 45.000   PN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03534	-.00057	.03007	.00002	.00004	.00002
4.000	-.04593	-.00114	.02994	-.00004	.00024	.00002
GRADIENT	-.00786	.00346	.00805	-.00024	.00009	.00004

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03770	-.00069	.02722	.00023	-.00003	-.00020
4.000	-.03993	-.00071	.02651	.00031	.00014	-.00022
GRADIENT	-.00368	.00373	.00776	-.00017	.00008	-.00007

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 03S1 (CARRIER DATA)

(PNHX28) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
ICRB = 6.000	DX = 10.000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09232	-.00265	.08474	-.00176	.00113	-.00051
4.000	-.10134	-.00356	.08475	-.00120	.00109	-.00044
GRADIENT	-.00707	.00329	.00812	.00007	-.00002	-.00002

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07548	-.00120	.06440	-.00211	.00140	-.00051
4.000	-.08705	-.00254	.06609	-.00166	.00142	-.00060
GRADIENT	-.00834	.00308	.00896	.00001	.00001	-.00010

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06667	-.00092	.05486	-.00316	.00171	-.00058
4.000	-.08259	-.00199	.05810	-.00249	.00168	-.00044
GRADIENT	-.01052	.00321	.00973	.00012	-.00002	.00001

DZ = 15.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05479	-.00032	.04157	-.00233	.00184	-.00066
4.000	-.07175	-.00120	.04543	-.00332	.00197	-.00043
GRADIENT	-.01104	.00331	.01004	-.00071	.00006	.00006

DZ = 30.000   RN/L =   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03735	-.00029	.02070	-.00147	.00059	.00008
4.000	-.04855	-.00006	.02466	-.00358	.00071	-.00027
GRADIENT	-.00786	.00386	.01009	.00023	.00002	-.00023

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (PNHX28)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB = 6.000	DX = 10.000
SCALE =	.0125			DY = .000	MACH = .600

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02651	-.00018	.01267	-.00065	.00021	.00019
4.000	-.03655	.00030	.01720	.00038	.00015	.00027
GRADIENT	-.00758	.00399	.01038	.00030	-.00004	-.00002

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01987	.00001	.00995	-.00007	.00013	-.00001
4.000	-.02635	.00033	.01569	.00018	.00026	.00018
GRADIENT	-.00580	.00391	.01098	-.00009	.00006	.00004

ARC 14-120(CA23B)   747/1 ATI O3S1 (CARRIER DATA)   (PNHX29)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN ZC	IORB = 8.000	DX = 10.000
SCALE =	.0125			DY = .000	MACH = .600

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.12118	-.00609	.14709	-.00268	.00130	-.00038
4.000	-.13002	-.00738	.15187	.00057	.00086	-.00087
GRADIENT	-.00698	.00310	.01050	.00142	-.00023	-.00030

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10442	-.00430	.12381	-.00271	.00141	-.00026
4.000	-.11647	-.00589	.12797	-.00093	.00124	-.00049
GRADIENT	-.00858	.00295	.01019	.00068	-.00009	-.00017

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 03SI (CARRIER DATA)

(PNHx29) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC			BETA =	.000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC			RUDDER =	.000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC			IORB =	8.000	DX = 10.000
SCALE = .0125				DY =	.000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09292	-.00311	.10927	-.00262	.00144	-.00009
4.000	-.10731	-.00485	.11230	-.00194	.00147	-.00012
GRADIENT	-.00975	.00288	.00963	.00012	.0001	-.00007

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07837	-.00194	.08576	-.00353	.00190	-.00058
4.000	-.09398	-.00368	.08790	-.00307	.00187	-.00038
GRADIENT	-.01037	.00288	.00918	.00001	-.00022	.00004

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04800	-.00098	.04496	-.00165	.00108	-.00051
4.000	-.06330	-.00140	.04815	-.00107	.00101	-.00036
GRADIENT	-.01021	.00354	.00971	.00008	-.00004	.00002

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03372	-.00039	.02770	-.00048	.00023	-.00019
4.000	-.04260	-.00064	.03137	.00078	.00012	-.00022
GRADIENT	-.03700	.00362	.00995	.00042	-.00006	-.00007

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03124	-.00060	.02531	-.00061	.00017	.00020
4.000	-.04112	-.00064	.02875	.00021	.00030	.00040
GRADIENT	-.00750	.00373	.00984	-.00001	.00006	.00004

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (PNHX30)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11010	-.00600	.14571	-.00179	.00097	.00052
4.000	-.11851	-.00796	.15667	-.00023	.00080	.00055
GRADIENT	-.00676	.00277	.01359	.00057	-.00009	-.00004

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09327	-.00445	.12174	-.00210	.00120	.00018
4.000	-.10597	-.00635	.13103	-.00097	.00109	.00020
GRADIENT	-.00891	.00280	.01276	.00036	-.00006	-.00005

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07984	-.00322	.10723	-.00225	.00136	-.00003
4.000	-.09702	-.00520	.11410	-.00145	.00128	-.00009
GRADIENT	-.01115	.00276	.01154	.00019	-.00004	-.00009

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07221	-.00275	.08365	-.00282	.00159	-.00024
4.000	-.08684	-.00402	.08925	-.00206	.00156	-.00003
GRADIENT	-.00987	.00311	.01091	.00017	-.00002	-.00005

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04798	-.00160	.04533	-.00252	.00100	-.00008
4.000	-.05608	-.00186	.04954	-.00111	.00091	.00038
GRADIENT	-.00701	.00362	.01022	.00052	-.00005	.00017

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (PNHX35) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02550	-.00042	.02669	-.00089	.00026	-.00022
4.000	-.04712	-.00119	.03249	-.00038	.00026	.00009
GRADIENT	-.01337	.00336	.01101	.00005	-.00001	.00010

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02906	-.00071	.02318	-.00101	.00015	.00036
4.000	-.03650	-.00077	.02885	.00056	.00007	.00003
GRADIENT	-.00628	.00372	.01095	.00057	-.00004	-.00022

ARC 14-120(CA23B) 747/1 AT1 O3S1 (CARRIER DATA)   (PNHX31) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	CCLM	DCY	DCYN	DCBL
2.000	-.09896	-.00410	.08139	-.00226	.00097	.00028
4.000	-.09629	-.00448	.08161	-.00222	.00115	-.00044
GRADIENT	-.00122	.00356	.00822	-.00019	.00009	-.00042

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07290	-.00262	.06470	-.00255	.00125	.00009
4.000	-.08345	-.00315	.06804	-.00220	.00138	-.00028
GRADIENT	-.00433	.00349	.00979	-.00003	.00006	-.00025

ARC 14-120(CA23B)　747/1 ATI 035I　(CARRIER DATA)

(PNHX31)　　(17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

DZ = 10.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06421	-.00146	.05440	-.00269	.00142	-.00021
4.000	-.07412	-.00220	.05949	-.00213	.00154	-.00009
GRADIENT	-.00752	.00338	.01066	.00007	.00006	.00000

DZ = 15.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05793	-.00088	.04045	-.00298	.00169	.00053
4.000	-.06497	-.00128	.04546	-.00222	.00171	-.00031
GRADIENT	-.00608	.00355	.01062	.00017	.00001	-.00048

DZ = 30.000　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03574	.00011	.01802	-.00060	.00046	-.00014
4.000	-.04542	-.00031	.02292	-.00165	.00083	.00003
GRADIENT	-.00740	.00353	.01056	-.00074	.00018	.00003

DZ = 45.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02061	.00040	.01035	-.00101	.00032	-.00033
4.000	-.03124	-.00019	.01507	-.00129	.00002	.00002
GRADIENT	-.00787	.00364	.01047	.00094	-.00016	.00011

DZ = 50.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02150	.00025	.00871	-.00025	.00019	.00003
4.000	-.02826	.00019	.01358	.00043	.00019	.00017
GRADIENT	-.00594	.00372	.01055	.00013	-.00000	.00001

ARC 14-120(CA23B)　747/1 ATI 03S1 (CARRIER DATA)　　　(PNHX34)　(17 OCT 75)

REFERENCE DATA

SREF	= 5500.0000 SO.FT.	XMRP = 1339.9000 IN. XC
LREF	=	YMRP = .0000 IN. YC
BREF	=	ZMRP = IN. ZC
SCALE	=	

PARAMETRIC DATA

BETA	= .000	STAB	=	5.000
RUDDER	= .000	ELEVON	=	.000
IORB	= 6.000	DX	=	.000
DY	= .000	MACH	=	.600

DZ = 3.500　　RN/L = 3.31　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10252	-.00125	.08231	.00114	-.00013	-.00025
4.000	-.11998	-.00325	.07896	.00145	-.00011	-.00042
GRADIENT	-.01129	.00275	.00644	-.00006	.00001	-.00014

DZ = 7.500　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08927	-.00061	.06569	.00027	.00023	-.00023
4.000	-.10523	-.00240	.06340	-.00006	.00044	-.00019
GRADIENT	-.01054	.00285	.00696	-.00038	.00010	-.00004

DZ = 10.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08506	-.00052	.05821	-.00040	.00038	-.00027
4.000	-.09940	-.00187	.05592	-.00042	.00064	-.00025
GRADIENT	-.00973	.00307	.00697	-.00022	.00013	-.00005

DZ = 15.000　　RN/L = 3.30　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06957	-.00000	.04592	-.00048	.00086	-.00067
4.000	-.08346	-.00109	.04502	-.00031	.00108	-.00028
GRADIENT	-.00950	.00321	.00766	-.00012	.00011	.00014

DZ = 30.000　　RN/L = 3.29　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04633	.00033	.02593	.00069	.00013	-.00026
4.000	-.05556	-.00019	.02534	.00002	.00056	-.00055
GRADIENT	-.00717	.00349	.00782	-.00054	.00021	-.00021

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (PNHX34)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = .000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 6.000	DX = .000
SCALE = .0125		UY = .000	MACH = .600

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	CCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02909	.00017	.01698	.00021	-.00014	.00003
4.000	-.03829	-.00012	.01740	.00060	-.00003	-.00002
GRADIENT	-.00716	.00360	.00832	-.00001	.00005	-.00008

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02862	-.00007	.01522	.00023	-.00003	.00008
4.000	-.03273	.00031	.01526	.00079	-.00003	.00039
GRADIENT	-.00512	.00363	.00813	.00007	.00003	.00010

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNHY10)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.15732	-.00732	.20664	.00083	-.00021	-.00134
4.000	-.17423	-.01183	.20186	.00117	-.00022	-.00065
GRADIENT	-.01101	.00149	.00573	-.00004	-.00001	.00029

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.15937	-.00597	.17710	.00056	-.00030	-.00054
4.000	-.15415	-.00946	.17047	.00101	-.00015	-.00016
GRADIENT	-.01045	.00200	.00480	.00001	.00007	.00013

TABULATED SOURCE DATA - CA23B

DATE 23 MAR 76

ARC 14-120(CA23B) 747/1 AT1 025I (CARRIER DATA)   (PNHY101)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 8.000	DX = .000	
DY = .000	MACH = .600	

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.12528	-.00505	.15870	.00061	-.00026	.00008
4.000	-.14045	-.00788	.15086	.00109	-.00000	.00026
GRADIENT	-.01014	.00234	.00419	.00003	.00013	.00003

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10709	-.00376	.12941	-.00108	.00004	-.00011
4.000	-.12226	-.00503	.12038	-.00044	.00024	-.00027
GRADIENT	-.01014	.00261	.00360	.00011	.00010	-.00014

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06579	-.00165	.07404	-.00062	-.00000	-.00034
4.000	-.08101	-.00302	.06893	-.00047	-.00001	-.00023
GRADIENT	-.01017	.00306	.00556	-.00014	-.00001	-.00000

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04281	-.00085	.04885	-.00061	.00007	-.00022
4.000	-.05654	-.00133	.04636	-.00019	.00005	-.00040
GRADIENT	-.00943	.00351	.00687	-.00000	-.00001	-.00015

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03932	-.00067	.04356	-.00145	.00014	-.00018
4.000	-.04827	-.00113	.04072	-.00025	-.00001	-.00012
GRADIENT	-.00704	.00352	.00669	.00039	-.00008	-.00003

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)

(PNHY13) (17 OCT 75)

REFERENCE DATA

SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC		
LREF =	327.7800 IN.	YMRP =	.0030 IN. YC		
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC		
SCALE =	.0125				

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

3.500 ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11806	-.00355	.13101	-.00246	.00149	-.00036
4.000	-.13645	-.00632	.12848	-.00250	.00148	-.00011
GRADIENT	-.01176	.00237	.00685	-.00023	-.00001	.00006

DZ

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

7.500 ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10549	-.00248	.11028	-.00367	.00174	-.00002
4.000	-.12003	-.00457	.10737	-.00319	.00170	-.00005
GRADIENT	-.00983	.00270	.00666	.00003	-.00002	-.00002

DZ

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

10.000 ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09490	-.00192	.09916	-.00389	.00169	-.00016
4.000	-.11068	-.00396	.09616	-.00310	.00163	-.00023
GRADIENT	-.01045	.00273	.00661	.00018	-.00003	-.00009

DZ

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

15.000 ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08521	-.00111	.07955	-.00351	.00158	-.00024
4.000	-.09753	-.00284	.07794	-.00289	.00159	-.00026
GRADIENT	-.00872	.00289	.00731	.00010	-.00000	-.00007

DZ

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

30.000 ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05318	-.00015	.04676	-.00189	.00085	-.00042
4.000	-.07021	-.00119	.04687	-.00069	.00061	-.00019
GRADIENT	-.01107	.00323	.00817	.00039	-.00013	.00006

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNHY13)   (17 OCT 75)   636

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03387	.00016	.03240	-.00149	.00063	-.00061
4.000	-.04876	-.00040	.03274	-.00058	.00042	-.00021
GRADIENT	-.01000	.00345	.00828	.00024	.00011	-.00014

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03038	.00010	.02793	-.00161	.00061	-.00001
4.000	-.04162	-.00033	.02863	-.00025	.00035	-.00005
GRADIENT	-.00818	.00354	.00846	.00047	.00013	-.00003

ARC 14-120(CA23B) 747/1 ATI 02S1 (CARRIER DATA)   (PNHY18)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = 5.000	
IORB = 6.000	DX = .000	
DY = 10.000	MACH = .600	

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10637	-.00497	.11175	-.00582	-.00491	.00523
4.000	-.12478	-.00657	.11123	-.00907	-.00457	.00635
GRADIENT	-.01176	.00295	.00785	-.00184	.00016	.00050

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08798	-.00340	.09659	-.00504	-.00409	.00472
4.000	-.10392	-.00509	.09437	-.00863	-.00271	.00533
GRADIENT	-.01053	.00290	.00701	-.00201	.00069	.00025

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ARC 14-120(CA23B) 747/1 AT1 0251 (CARRIER DATA) (PNHY18) (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	5500.0000 SQ.FT.	XMRP =	1339.9000 IN. XC		STAB =	.000	5.000
LREF =	327.7800 IN.	YMRP =	.0000 IN. YC		ELEVON =	.000	5.000
BREF =	2348.0400 IN.	ZMRP =	190.7500 IN. ZC		DX =	6.000	.000
SCALE =	.0125				MACH =	10.000	.600

	BETA =	RUDDER =	IORB =	DY =

RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCLM	DCD	DCY	DCYN	DCBL
2.000	-.08047	.08681	-.00276	-.00465	-.00333	.00435
4.000	-.09664	.08506	-.00401	-.00916	-.00169	.00436
GRADIENT	-.01064	.00724	.00313	-.00246	.00081	-.00005

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCLM	DCD	DCY	DCYN	DCBL
2.000	-.06738	.07188	-.00179	-.00680	-.00162	.00318
4.000	-.08150	.06979	-.00298	-.01077	.00040	.00365
GRADIENT	-.00966	.00707	.00315	-.00219	.00100	.00018

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCLM	DCD	DCY	DCYN	DCBL
2.000	-.04714	.04147	-.00069	-.01014	.00321	.00103
4.000	-.05723	.04189	-.00081	-.01370	.00469	.00095
GRADIENT	-.00761	.00833	.00369	-.00199	.00073	-.00010

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCLM	DCD	DCY	DCYN	DCBL
2.000	-.03009	.02860	-.00006	-.00956	.00321	.00002
4.000	-.03782	.02971	-.00021	-.00981	.00383	.00026
GRADIENT	-.00642	.00867	.00367	-.00083	.00030	.00006

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCLM	DCD	DCY	DCYN	DCBL
2.000	-.02666	.02717	-.00034	-.00635	.00263	.00055
4.000	-.03355	.02085	.00017	-.00794	.00314	.00014
GRADIENT	-.00600	.00896	.00400	-.00071	.00025	-.00026

ARC 14-120(CA23B) 747/1 AT1 O2S1 (CARRIER DATA)   (PNHY19) (

REFERENCE DATA   PARAMETRIC DATA

SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC	BETA = .000	STAB = 5.000
LREF = 327.7800 IN.	YMRP = .0000 IN. YC	RUDDER = .000	ELEVON = 5.000
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN. ZC	IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

DZ = 3.500

	RN/L = 3.34	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.14691	-.00753	.15791	-.00763	-.00504	.00575
4.000	-.16013	-.00969	.15676	-.01200	-.00289	.00728
GRADIENT	-.00917	.00267	.00754	-.00240	.00107	.00070

DZ = 7.500

	RN/L = 3.34	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.12342	-.00618	.14283	-.00852	-.00328	.00541
4.000	-.13993	-.00836	.13995	-.01305	-.00097	.00637
GRADIENT	-.01082	.00266	.00668	-.00248	.00115	.00042

DZ = 10.000

	RN/L = 3.33	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10544	-.00515	.13367	-.00887	-.00222	.00509
4.000	-.12361	-.00751	.12928	-.01393	.00040	.00576
GRADIENT	-.01164	.00256	.00592	-.00274	.00131	.00027

DZ = 15.000

	RN/L = 3.35	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09888	-.00434	.11427	-.00986	-.00045	.00487
4.000	-.11583	-.00603	.10955	-.01453	.00205	.00484
GRADIENT	-.01104	.00290	.00575	-.00254	.00125	-.00007

DZ = 30.000

	RN/L = 3.35	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06277	-.00177	.06944	-.01435	.00452	.00159
4.000	-.07269	-.00204	.06545	-.01832	.00648	.00132
GRADIENT	-.00802	.00361	.00612	-.00219	.00097	-.00019

ARC 14-120(CA23B) 747/1 AT1 02S1 (CARRIER DATA)   (PNHY19)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

DZ = 45.000   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03664	-.00035	.04457	-.01038	.00433	-.00006
4.000	-.05227	-.00106	.04337	-.01092	.00474	-.00053
GRADIENT	-.01037	.00339	.00751	-.00048	.00020	.00023

DZ = 50.000   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03192	-.00029	.04100	-.00955	.00365	.00045
4.000	-.04713	-.00059	.03984	-.00949	.00401	.00042
GRADIENT	-.01016	.00359	.00754	-.00018	.00017	-.00007

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (PNHY27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ =   3.500   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11619	-.00370	.14286	-.00137	.00191	-.00167
4.000	-.13472	-.00745	.14387	-.00402	.00186	-.00019
GRADIENT	-.01183	.00187	.00862	-.00153	-.00003	.00058

DZ =   7.500   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10796	-.00308	.12195	-.00275	.00181	-.00076
4.000	-.12597	-.00612	.12164	-.00316	.00174	-.00015
GRADIENT	-.01156	.00223	.00796	-.00042	-.00004	.00025

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ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)   (PNHY27) (17)

REFERENCE DATA

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

PARAMETRIC DATA

BETA   =   .000   STAB   =   .000
RUDDER =   .000   ELE.ON =   .000
IORB   =   8.000   DX   =   8.000
DY   =   .000   MACH   =   .600

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10409	-.00276	.10908	-.00409	.00189	.00009
4.000	-.12227	-.00526	.10689	-.00256	.00172	-.00009
GRADIENT	-.01165	.00250	.00702	.00056	-.00009	-.00015

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08660	-.00163	.08407	-.00318	.00129	-.00043
4.000	-.10423	-.00371	.08248	-.00077	.00117	.00026
GRADIENT	-.01133	.00271	.00732	.00068	-.00007	.00003

RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06013	-.00093	.04763	-.00165	.00078	.00006
4.000	-.07099	-.00169	.04605	-.00077	.00085	-.00015
GRADIENT	-.00799	.00337	.00732	.00023	.00003	-.00017

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03534	-.00058	.03011	.00008	.00002	-.00002
4.000	-.04602	-.00116	.02991	-.00007	.00024	-.00003
GRADIENT	-.00790	.00346	.00801	-.00029	.00011	-.00004

RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03730	-.00063	.02726	.00027	-.00005	-.00020
4.000	-.03985	-.00072	.02646	.00038	.00011	-.00024
GRADIENT	-.00358	.00373	.00772	-.00016	.00007	-.00008

ARC 14-120(CA23B)   747/1 ATI O3SI   (CARRIER DATA)

REFERENCE DATA

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

(PNHY32)   (17 OCT 75)

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
1ORB = 6.000	DX = .000
DY = 10.000	MACH = .600

DZ ■ 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.09755	-.00255	.06986	-.00825	-.00237	.00407
4.000	-.11172	-.00330	.06875	-.01105	-.00211	.00529
GRADIENT	-.00965	.00312	.00756	-.00161	.00013	.00055

DZ ■ 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07862	-.00139	.05745	-.00767	-.00126	.00228
4.000	-.09607	-.00274	.05597	-.01127	-.00004	.00438
GRADIENT	-.01128	.00307	.00737	-.00201	.00061	.00049

DZ ■ 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.07525	-.00121	.04984	-.00775	-.00047	.00325
4.000	-.09259	-.00221	.05038	-.01176	.00090	.00382
GRADIENT	-.01123	.00325	.00838	-.00222	.00068	.00023

DZ ■ 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.06232	-.00070	.03773	-.00866	.00100	.00231
4.000	-.07762	-.00139	.03884	-.01236	.00246	.00227
GRADIENT	-.01020	.00340	.00867	-.00206	.00072	-.00008

DZ ■ 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03850	-.00001	.02269	-.00748	.00274	.00082
4.000	-.05144	-.00032	.02284	-.01080	.00404	.00085
GRADIENT	-.00903	.00359	.00819	-.00187	.00064	-.00005

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ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)   (PNHY32)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = 10.000	MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02575	-.00011	.01499	-.00569	.00226	.00057
4.000	-.03741	.00012	.01714	-.00677	.00282	.00064
GRADIENT	-.00838	.00386	.00919	-.00076	.00028	-.00003

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01987	.00027	.01269	-.00419	.00194	.00008
4.000	-.03513	.00006	.01498	-.00554	.00243	.00058
GRADIENT	-.01019	.00364	.00926	-.00089	.00024	.00019

ARC 14-120(CA23B) 747/1 ATI 035I (CARRIER DATA)   (PNHY33)   (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = 10.000	MACH = .600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11906	-.00602	.11367	-.00891	-.00206	.00458
4.000	-.14318	-.00780	.11058	-.01406	-.00086	.00600
GRADIENT	-.01462	.00286	.00657	-.00279	.00099	.00065

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.11096	-.00465	.10029	-.01013	-.00104	.00450
4.000	-.12932	-.00649	.09819	-.01509	.00102	.00515
GRADIENT	-.01174	.00283	.00706	-.00269	.00102	.00027

ARC 14-120(CA23B) 747/1 AT1 03S1 (CARRIER DATA)

REFERENCE DATA

			(PNHY33) (17 OCT 75)
SREF = 5500.0000 SQ.FT.	XMRP = 1339.9000 IN. XC		
LREF = 327.7803 IN.	YMRP = .0000 IN. YC		
BREF = 2348.0400 IN.	ZMRP = 190.7500 IN ZC		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = 10.000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10584	-.00374	.09258	-.01072	.00005	.00466
4.000	-.12067	-.00566	.09093	-.01572	.00227	.00478
GRADIENT	-.00998	.00279	.00729	-.00271	.00111	.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08826	-.00276	.07421	-.01141	.00171	.00301
4.000	-.10317	-.00415	.07335	-.01692	.00410	.00203
GRADIENT	-.01001	.00306	.00768	-.00296	.00119	-.00005

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.05706	-.00128	.04279	-.01176	.00434	.00108
4.000	-.06740	-.00159	.04261	-.01511	.00603	.00083
GRADIENT	-.00773	.00359	.00802	-.00188	.00084	-.00019

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03455	-.00011	.02760	-.00756	.00327	.00030
4.000	-.04846	-.00040	.02811	-.00858	.00390	.00069
GRADIENT	-.00952	.00360	.00837	-.00072	.00026	.00014

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.03414	-.00044	.02520	-.00505	.00248	.00041
4.000	-.04496	-.00066	.02603	-.00677	.00310	.00089
GRADIENT	-.00797	.00364	.00853	-.00107	.00030	.00018

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/I AT1 03S1 (CARRIER DATA)

PARAMETRIC DATA

REFERENCE DATA

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

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
1ORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.10225	-.00128	.08229	.00102	-.00012	-.00023
4.000	-.11996	-.00325	.07895	.00143	-.00012	-.00041
GRADIENT	-.01142	.00276	.00644	-.00001	-.00000	-.00015

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08913	-.00061	.06565	.00022	.00023	-.00022
4.000	-.10520	-.00240	.06336	-.00011	.00044	-.00018
GRADIENT	-.01060	.00286	.00697	-.00038	.00010	-.00004

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.08490	-.00053	.05816	-.00044	.00038	-.00026
4.000	-.09943	-.00187	.05588	-.00048	.00064	-.00022
GRADIENT	-.00982	.00308	.00697	-.00023	.00012	-.00004

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01914	-.00001	.04505	-.00054	.00087	-.00065
4.000	-.08349	-.00109	.04497	-.00037	.00108	-.00026
GRADIENT	-.00959	.00321	.00767	-.00013	.00010	.00014

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.04628	.00033	.02591	.00065	.00014	-.00025
4.000	-.05559	-.00019	.02532	-.00007	.00059	-.00054
GRADIENT	-.00721	.00349	.00782	-.00057	.00022	-.00020

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ARC 14-120(CA23B) 747/1 ATI 035) (CARRIER DATA) (PNHY34) (17 OCT 75)

REFERENCE DATA

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

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02910	.00018	.01703	.00019	-.00013	.00003
4.000	-.03831	-.00013	.01740	.00061	-.00013	-.00002
GRADIENT	-.00716	.00359	.00830	-.00000	.00004	-.00009

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02876	-.00007	.01531	.00022	-.00003	.00008
4.000	-.03390	-.00032	.01524	.00078	-.00004	.00040
GRADIENT	-.00513	.00362	.00808	.00007	.00003	.00010

ARC 14-120(CA23B) 747/1 ATI 025) (ORBITER DATA) (TNH008) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = -1.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. D/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	6.000	-.02984	-.00705	.01187	.00186	.00033	.00103
3.500	8.000	-.06931	-.01009	.01158	.00217	.00025	-.00086
3.500	10.000	-.11750	-.01813	.01522	.00134	.00003	.00111
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. D/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	6.000	-.02505	-.00582	.00835	.00111	.00019	.00092
7.500	8.000	-.06552	-.00930	.00911	.00123	.00023	.00077
7.500	10.000	-.11846	-.01646	.01235	.00098	.00094	.00112
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =		STAB = -1.000
RUDDER =		ELEVON = 5.000
IORB =		DX = .000
DY =	6.000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	6.000	-.02369	-.00527	.00726	.00035	.00001	.00069
10.000	8.000	-.06125	-.00880	.00867	.00087	-.00018	.00041
10.000	10.000	-.10749	-.01557	.01126	.00043	-.00004	.00090
GRADIENT		-.04611	-.00407	-.00400	.00011	-.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	6.000	-.02494	-.00437	.00582	.00045	-.00003	.00057
15.000	8.000	-.06138	-.00776	.00704	.00322	-.00000	.00042
15.000	10.000	-.10359	-.01381	.00994	.00083	-.00003	.00091
GRADIENT		-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	6.000	-.02255	-.00268	.00391	-.00006	-.00010	.00034
30.000	8.000	-.04687	-.00511	.00544	-.00012	-.00008	.00023
30.000	10.000	-.08042	-.00954	.00740	.00086	-.00018	.00055
GRADIENT		-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	6.000	-.02209	-.00154	.00277	-.00014	-.00014	.00033
45.000	8.000	-.03717	-.00349	.00418	-.00016	-.00012	.00022
45.000	10.000	-.06073	-.00583	.00573	.00091	-.00024	.00029
GRADIENT		-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	6.000	-.01841	-.00133	.00271	-.00025	-.00019	.00024
50.000	8.000	-.03702	-.00292	.00398	-.00048	-.00003	.00036
50.000	10.000	-.05722	-.00522	.00519	.00096	-.00024	.00041
GRADIENT		-.04612	-.00265	-.00470	.00004	.00001	-.00005

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (TNH009)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   BN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
3.500 8.000	-.01518	-.00528	.00900	.00291	.00025	.00104
3.500 10.000	-.05613	-.01136	.01174	.00207	-.00006	.00173
3.500 12.000	-.10957	-.02560	.01638	.00220	.00033	.00061
3.500 GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   BN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
7.500 8.000	-.01496	-.00366	.00636	.00190	.00003	.00086
7.500 10.000	-.06133	-.01113	.01011	.00205	.00003	.00141
7.500 12.000	-.10467	-.02390	.01445	.00226	.00043	.00057
7.500 GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO.   0/ 0   BN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
10.000 8.000	-.02358	-.00520	.00685	.00123	.00003	.00056
10.000 10.000	-.05623	-.01105	.00894	.00243	.00008	.00119
10.000 12.000	-.10063	-.02268	.01313	.00245	.00048	.00056
10.000 GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   BN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
15.000 8.000	-.02637	-.00453	.00542	-.00003	-.00023	.00051
15.000 10.000	-.06382	-.01038	.00764	.00072	.00029	.00091
15.000 12.000	-.09871	-.02099	.01122	.00194	.00067	.00045
15.000 GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO.   0/ 0   BN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
30.000 8.000	-.01958	-.00263	.00332	.00009	-.00025	.00017
30.000 10.000	-.05045	-.00658	.00551	.00160	-.00035	.00062
30.000 12.000	-.07346	-.01353	.00830	.00252	.00088	.00047
30.000 GRADIENT	-.04785	-.00066	-.00317	.00006	.00002	-.00002

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT: O2S1 (ORBITER DATA)

(TNH009)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = -1.000
RUDDER = .000   ELEVON = 1.000
IORB   = 8.000   DX   = .000
DY   = .000   MACH   = .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.01829	-.00162	.00258	.00103	-.00014	.00016
45.000	10.000	-.04308	-.00465	.00404	.00157	-.00041	.00045
45.000	12.000	-.05644	-.00810	.00584	.00279	-.00080	.00001
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.01271	-.00111	.00281	.00147	-.00014	.00008
50.000	10.000	-.03660	-.00388	.00371	.00172	-.00047	.00021
50.000	12.000	-.05147	-.00685	.00506	.00266	-.00095	-.00002
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

(TNH010)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = 5.000
IORB   = 8.000   DX   = .000
DY   = .000   MACH   = .600

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.00912	-.00558	.01110	.00276	-.00020	.00036
3.500	10.000	-.05553	-.01027	.01195	.00153	-.00036	.00062
3.500	12.000	-.09620	-.02308	.01593	.00203	-.00049	.00024
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.01196	-.00454	.00900	.00144	-.00005	.00046
7.500	10.000	-.05278	-.00933	.01033	.00143	-.00027	.00089
7.500	12.000	-.09080	-.02051	.01599	.00193	-.00062	.00047
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNH010) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.01473	-.00397	.00734	.00070	.00000	.00057
10.000	10.000	-.05048	-.00869	.00916	.00149	-.00016	.00119
10.000	12.000	-.08654	-.01853	.01263	.00198	-.00071	.00073
10.000	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.01291	-.00340	.00632	-.00005	-.00018	.00036
15.000	10.000	-.04944	-.00782	.00780	.00078	-.00035	.00087
15.000	12.000	-.08281	-.01688	.01090	.00138	-.00082	.00036
15.000	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.00777	-.00166	.00455	-.00062	-.00029	.00016
30.000	10.000	-.03449	-.00433	.00580	.00092	-.00052	.00069
30.000	12.000	-.06201	-.01068	.00805	.00073	-.00097	.00036
30.000	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.00190	-.00083	.00402	.00008	-.00023	.00009
45.000	10.000	-.02209	-.00191	.00467	.00174	-.00048	.00064
45.000	12.000	-.04379	-.00554	.00601	.00159	-.00085	-.00007
45.000	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.00241	-.00051	.00351	.00025	-.00017	.00015
50.000	10.000	-.02234	-.00198	.00387	.00188	-.00047	.00046
50.000	12.000	-.03644	-.00409	.00541	.00204	-.00086	.00005
60.000	GRADIENT	-.04512	-.00265	-.00370	.00004	.00001	-.00005

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (TNHO11)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

STAB =	.000
ELEVON =	.000
DX =	4.000
MACH =	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	4.000	-.03110	-.00668	.01256	.00115	.00011	.00094
3.500	6.000	-.07298	-.01038	.01210	.00136	.00021	.00104
3.500	8.000	-.11267	-.01480	.01181	.00097	.00015	.00094
3.500	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	4.000	-.02509	-.00641	.00992	.00109	.00018	.00088
7.500	6.000	-.06533	-.00940	.00961	.00094	.00012	.00077
7.500	8.000	-.10474	-.01352	.00934	.00145	.00027	.00073
7.500	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	4.000	-.02427	-.00605	.00855	.00158	.00023	.00071
10.000	6.000	-.05189	-.00874	.00846	.00101	.00015	.00073
10.000	8.000	-.10168	-.01289	.00841	.00089	.00016	.00063
10.000	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	4.000	-.02206	-.00498	.00687	.00167	.00027	.00053
15.000	6.000	-.05725	-.00765	.00711	.00116	.00025	.00064
15.000	8.000	-.09384	-.01142	.00775	.00075	.00021	.00059
15.000	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	4.000	-.01858	-.00359	.00465	.00062	.00006	.00021
30.000	6.000	-.04517	-.00479	.00537	.00019	.00009	.00031
30.000	8.000	-.07081	-.00756	.00645	.00044	.00007	.00028
30.000	GRADIENT	-.04785	-.00066	-.00317	.00006	.00002	-.00002

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNH011)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN.   XO   BETA   = .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP = .0000 IN.   YO   RUDDER = .000   ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN.   ZO   IORB   = 4.000   DX   = .000
SCALE = .0125   DY   = .000   MACH   = .600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	4.000	-.01353	-.00214	.00336	.00017	-.00003	.00017
45.000	6.000	-.03186	-.00325	.00450	.00016	.00004	.00027
45.000	8.000	-.04693	-.00481	.00565	.00100	.00008	.00025
45.000	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	4.000	-.01203	-.00158	-.00294	.00007	-.00005	.00018
50.000	6.000	-.02703	-.00284	.00427	.00042	.00001	.00028
50.000	8.000	-.03915	-.00399	.00544	.00123	.00011	.00029
50.000	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNH013)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN.   XO   BETA   = .000   STAB   = 5.000
LREF = 474.8100 IN.   YMRP = .0000 IN.   YO   RUDDER = .000   ELEVON = 5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN.   ZO   IORB   = 6.000   DX   = .000
SCALE = .0125   DY   = .000   MACH   = .600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	6.000	-.01616	-.00553	.01230	.00016	.00010	.00121
3.500	8.000	-.05960	-.00916	.01296	.00115	.00026	.00117
3.500	10.000	-.10487	-.01689	.01624	.00021	.00010	.00147
3.500	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	6.000	-.01810	-.00528	.00929	.00014	.00015	.00112
7.500	8.000	-.05844	-.00872	.01031	.00031	.00020	.00100
7.500	10.000	-.10192	-.01562	.01339	-.00013	.00008	.00136
7.500	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)

(TN-313)

PARAMETRIC DATA

REFERENCE DATA

SPEF	=	2690.0000 SQ.FT.
LREF	=	474.8100 IN.
BREF	=	936.6800 IN.
SCALE	=	.0125

XMRP	=	1109.0000 IN. XO
YMRP	=	.0000 IN. YO
ZMRP	=	375.0000 IN. ZO

BETA	=	.000
RUDDER	=	.000
IORB	=	6.000
DY	=	.000

STAB	=	5.000
ELEVON	=	5.000
DX	=	.000
MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	6.000	-.01727	-.00502	.00856	.00038	.00023	.00093
10.000	8.000	-.05713	-.00858	.00974	-.00037	.00008	.00087
10.000	10.000	-.09976	-.01519	.01266	-.00001	.00004	.00121
GRADIENT		-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	6.000	-.01726	-.00443	.00738	-.00026	.00001	.00079
15.000	8.000	-.06484	-.00726	.00816	-.00052	.00001	.00081
15.000	10.000	-.09540	-.01362	.01104	-.00020	-.00005	.00107
GRADIENT		-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	6.000	-.01261	-.00297	.00574	.00021	-.00010	.00029
30.000	8.000	-.04090	-.00516	.00691	-.00058	-.00009	.00045
30.000	10.000	-.07405	-.00959	.00907	.00081	-.00002	.00076
GRADIENT		-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	6.000	-.01131	-.00214	.00511	-.00064	-.00008	.00052
45.000	8.000	-.03079	-.00403	.00619	-.00016	-.00001	.00044
45.000	10.000	-.05832	-.00566	.00748	-.00033	-.00016	.00063
GRADIENT		-.04649	-.00225	-.00359	.00004	-.00001	-.00004

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	6.000	-.01262	-.00148	.00444	-.00048	-.00006	.00052
50.000	8.000	-.02761	-.00294	.00554	.00001	.00004	.00061
50.000	10.000	-.05121	-.00522	.00681	.00053	.00013	.00076
GRADIENT		-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNH020)   (17 OCT 75)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RUN NO. 0/ 0   PN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	4.000	-.00990	-.00368	.01292	-.00042	-.00011	.00055
3.500	6.000	-.05960	-.00767	.01215	-.00032	-.00003	.00065
3.500	8.000	-.09517	-.01167	.01000	.00014	.00019	.00052
GRADIENT		-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   PN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	4.000	-.00074	-.00308	.01037	-.00054	-.00009	.00042
7.500	6.000	-.05794	-.00693	.00941	-.00017	-.00007	.00066
7.500	8.000	-.03170	-.01100	.00797	-.00048	-.00020	.00037
GRADIENT		-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   PN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	4.000	-.00048	-.00258	.00911	-.00042	-.00006	.00020
10.000	6.000	-.05070	-.00634	.00880	-.00043	-.00013	.00040
10.000	8.000	-.08958	-.01038	.00695	-.00061	-.00030	.00039
GRADIENT		-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   PN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	4.000	.00138	-.00216	.00723	-.00014	-.00007	.00007
15.000	6.000	-.04746	-.00530	.00705	-.00026	-.00006	.00047
15.000	8.000	-.08126	-.00881	.00614	-.00019	-.00012	.00035
GRADIENT		-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   PN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	4.000	-.00055	-.00057	.00431	-.00052	-.00012	-.00001
30.000	6.000	-.02872	-.00301	.00493	-.00124	-.00013	.00039
30.000	8.000	-.06488	-.00572	.00464	-.00053	-.00003	.00006
GRADIENT		-.04790	-.00290	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (TNH020)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

STAB	=	5.000
ELEVON	=	.000
DX	=	4.000
MACH	=	.600

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	4.000	-.00219	-.00001	.00283	-.00097	-.00015	.00015
45.000	6.000	-.03306	-.00190	.00346	-.00117	-.00010	.00032
45.000	8.000	-.05180	-.00384	.00359	-.00077	-.00007	.00009
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	4.000	-.00255	.00006	.00238	-.00126	-.00018	.00023
50.000	6.000	-.03184	-.00161	.00289	-.00117	-.00008	.00032
50.000	8.000	-.04729	-.00326	.00328	-.00089	-.00010	.00012
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (TNH021)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

STAB	=	-1.000
ELEVON	=	.000
DX	=	4.000
MACH	=	.600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	4.000	-.01390	-.00559	.01421	.00007	-.00003	.00054
3.500	6.000	-.05994	-.00915	.01362	.00027	.00009	.00074
3.500	8.000	-.09467	-.01290	.01180	.00011	.00011	.00049
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	4.000	-.01539	-.00517	.01133	.00060	.00008	.00032
7.500	6.000	-.05656	-.00844	.01105	.00005	.00009	.00072
7.500	8.000	-.09067	-.01213	.00958	.00010	.00008	.00038
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNH02!)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB = -1.000
RUDDER =	.000	ELEVON = .000
IORB =	4.000	DX = .000
DY =	.000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	4.000	.01598	-.00479	.00965	.00011	-.00003	.00028
10.000	6.000	.05370	-.00798	.00994	.00009	.00016	.00064
10.000	8.000	.08742	-.01149	.00872	.00034	.00003	.00034
10.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	4.000	-.00925	-.00400	.00827	.00004	-.00009	-.00005
15.000	6.000	-.04865	-.00678	.00852	.00066	.00004	.00048
15.000	8.000	-.06049	-.00994	.00758	.00021	.00005	.00034
15.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	4.000	.00309	-.00221	.00520	-.00077	-.00014	.00018
30.000	6.000	.03787	-.00431	.00611	-.00094	-.00008	.00027
30.000	8.000	-.06251	-.00648	.00579	-.00059	-.00000	.00018
30.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	4.000	-.00693	-.00096	.00373	-.00174	-.00024	.00031
45.000	6.000	-.02615	-.00260	.00498	-.00164	-.00019	.00030
45.000	8.000	-.04818	-.00434	.00483	-.00153	-.00002	.00033
45.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	4.000	-.00600	-.00056	.00337	-.00206	-.00027	.00032
50.000	6.000	-.02205	-.00208	.00468	-.00198	-.00025	.00032
50.000	8.000	-.04358	-.00370	.00455	-.00187	-.00002	.00041
50.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)

REFERENCE DATA

SPREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LPEF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.00124	-.00607	.01312	-.00096	-.00008	.00032
3.500	10.000	-.03231	-.00857	.01364	.00001	.00024	.00057
3.500	12.000	-.08264	-.02199	.02009	-.00036	-.00021	.00096
3.500	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	.00080	-.00436	.01098	-.00057	-.00005	.00023
7.500	10.000	-.03173	-.00729	.01200	.00010	.00016	.00033
7.500	12.000	-.07618	-.01982	.01798	.00035	.00027	.00065
7.500	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	.00298	-.00312	.00946	-.00007	.00002	.00016
10.000	10.000	-.03160	-.00634	.01068	.00038	.00013	.00008
10.000	12.000	-.07148	-.01818	.01637	.00079	.00036	.00039
10.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.00150	-.00298	.00788	-.00125	-.00019	.00010
15.000	10.000	-.02886	-.00577	.01001	-.00056	-.00003	.00026
15.000	12.000	-.06665	-.01675	.01524	.00160	.00018	.00038
15.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.00022	-.00162	.00603	-.00086	-.00013	.00003
30.000	10.000	-.02218	-.00388	.00769	-.00051	-.00008	.00017
30.000	12.000	-.04790	-.01135	.01248	.00058	.00035	.00024
30.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNH022) (17 OCT 75)

REFERENCE DATA

										PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO					STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO					ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO					DX	=	8.000
SCALE	=	.0125								MACH	=	.600

					BETA	=	.000
					RUDDER	=	.000
					IORB	=	8.000
					DY	=	.000

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.00334	-.00090	.00428	-.00135	-.00016	.00004
45.000	10.000	-.01757	-.00258	.00603	-.00116	-.00013	.00014
45.000	12.000	-.03564	-.00851	.01021	.00018	-.00033	.00036
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.00467	-.00074	.00380	-.00113	-.00005	.00012
50.000	10.000	-.01871	-.00226	.00546	-.00115	-.00012	.00018
50.000	12.000	-.03532	-.00823	.00932	-.00044	-.00024	.00030
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNH023) (17 OCT 75)

REFERENCE DATA

										PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO					STAB	=	5.000
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO					ELEVON	=	.000
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO					DX	=	6.000
SCALE	=	.0125								MACH	=	.600

					BETA	=	.000
					RUDDER	=	.000
					IORB	=	6.000
					DY	=	.000

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	6.000	-.00012	-.00474	.01262	-.00030	-.00000	.00096
3.500	8.000	-.04316	-.00770	.01243	-.00023	.00004	.00055
3.500	10.000	-.08094	-.01276	.01548	.00031	.00022	.00038
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	6.000	-.00121	-.00453	.01017	-.00043	-.00001	.00071
7.500	8.000	-.04369	-.00746	.01039	-.00036	.00001	.00045
7.500	10.000	-.07809	-.01191	.01289	-.00028	.00005	.00025
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (TNH023)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA = .000	STAB = .000	5.000	
RUDDER = .000	ELEVON = .000	.000	
IORB = 6.000	DX = 6.000	.000	
DY = 6.000	MACH = .000	.600	

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	CCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	6.000	-.00301	-.00431	.00905	-.00067	-.00004	.00072
10.000	8.000	-.04226	-.00714	.00931	-.00007	.00002	.00026
10.000	10.000	-.07382	-.01127	.01232	-.00005	.00009	.00020
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	6.000	-.00405	-.00374	.00768	-.00061	-.00003	.00074
15.000	8.000	-.03440	-.00616	.00925	-.00071	-.00014	.00017
15.000	10.000	-.07083	-.01012	.01106	-.00008	.00007	.00019
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	6.000	-.00488	-.00254	.00531	-.00105	-.00005	.00055
30.000	8.000	-.03491	-.00431	.00608	-.00074	-.00003	.00019
30.000	10.000	-.05205	-.00625	.00895	-.00034	.00004	.00010
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	6.000	-.00580	-.00155	.00403	-.00164	-.00018	.00045
45.000	8.000	-.02701	-.00282	.00483	-.00151	-.00019	.00026
45.000	10.000	-.03988	-.00390	.00718	-.00093	-.00015	.00029
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	6.000	-.00771	-.00113	.00376	-.00155	-.00015	.00060
50.000	8.000	-.02544	-.00237	.00473	-.00123	-.00012	.00019
50.000	10.000	-.03749	-.00310	.00671	-.00116	-.00011	.00039
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNH024)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

PARAMETRIC DATA

BETA =	STAB =	-1.000
RUDDER =	ELEVON =	.000
IORB = 6.000	DX =	.000
DY =	MACH =	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	6.000	-.00455	-.00580	.01270	-.00023	-.00002	.00006
3.500	8.000	-.04391	-.00914	.01304	.00038	.00006	.00044
3.500	10.000	-.08318	-.01436	.01590	-.00002	.00010	.00026
3.500	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	6.000	-.00370	-.00549	.01069	-.00015	.00001	.00063
7.500	8.000	-.04355	-.00857	.01054	.00042	.00013	.00041
7.500	10.000	-.07948	-.01316	.01355	.00043	.00017	.00017
7.500	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	6.000	-.00409	-.00511	.00370	-.00085	-.00004	.00073
10.000	8.000	-.04223	-.00824	.01015	.00016	.00008	.00037
10.000	10.000	-.07895	-.01273	.01267	-.00012	.00008	.00011
10.000	GRADIENT	-.04790	-.00021	-.00290	.00002	.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	6.000	-.00741	-.00450	.00793	.00057	-.00001	.00052
15.000	8.000	-.04183	-.00756	.00853	.00066	.00005	.00019
15.000	10.000	-.07190	-.01141	.01141	.00024	.00014	-.00008
15.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	6.000	-.00391	-.00281	.00563	-.00048	-.00008	.00034
30.000	8.000	-.03158	-.00492	.00654	-.00092	.00015	.00000
30.000	10.000	-.05311	-.00709	.00919	.00018	.00000	-.00008
30.000	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNH024)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SO.FT.	XMRP = 1109.0000 IN. XO	STAB = .000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 6.000
SCALE = .0125		MACH = .000

			BETA = -1.000
			RUDDER = .000
			IORB = .000
			DY = .600

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	6.000	-.00627	-.00167	.00412	-.00167	-.00019	.00037
45.000	8.000	-.02560	-.00314	.00506	-.00119	-.00021	-.00013
45.000	10.000	-.04161	-.00461	.00695	-.00054	-.00003	-.00006
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	6.000	-.00442	-.00135	.00382	-.00150	-.00022	.00021
50.000	8.000	-.02308	-.00280	.00476	-.00098	-.00017	-.00010
50.000	10.000	-.03920	-.00417	.00635	-.00112	-.00010	-.00013
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNH025)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SO.FT.	XMRP = 1109.0000 IN. XO	STAB = .000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX = 8.000
SCALE = .0125		MACH = .000

			BETA = -1.000
			RUDDER = .000
			IORB = .000
			DY = .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.00409	-.00649	.01166	.00112	.00027	.00066
3.500	10.000	-.03293	-.00925	.01319	.00041	.00021	.00063
3.500	12.000	-.09379	-.02540	.01907	.00069	.00011	.00010
	GRADIENT	-.04790	-.00021	-.00290	.00002	-.00001	-.00007

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.00389	-.00586	.01026	.00038	.00008	.00029
7.500	10.000	-.03787	-.00904	.01152	.00003	.00011	.00036
7.500	12.000	-.08575	-.02277	.01760	.00081	-.00008	.00024
	GRADIENT	-.04793	-.00021	-.00290	.00002	-.00001	-.00007

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNH025)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   8.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH - =   .600

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
10.000   8.000   -.00316   -.00549   .00922   -.00034   -.00006   -.00005
10.000   10.000   -.04320   -.00903   .01002   -.00041   .00003   .00025
10.000   12.000   -.07980   -.02072   .01649   .00111   -.00022   .00037
         GRADIENT   -.04790   -.00021   -.00290   .00002   -.00001   -.00007

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
15.000   8.000   -.00537   -.00486   .00804   .00028   -.00001   -.00009
15.000   10.000   -.03619   -.00804   .00969   .00030   .00009   .00020
15.000   12.000   -.07486   -.01956   .01541   .00035   .00031   .00027
         GRADIENT   -.04790   -.00021   -.00290   .00002   -.00001   -.00007

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
30.000   8.000   -.00463   -.00305   .00561   -.00046   -.00008   -.00006
30.000   10.000   -.03011   -.00529   .00737   -.00021   .00003   .00015
30.000   12.000   -.05592   -.01372   .01236   .00024   .00030   .00046
         GRADIENT   -.04790   -.00021   -.00290   .00002   -.00001   -.00007

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
45.000   8.000   -.00564   -.00198   .00386   -.00070   -.00009   .00002
45.000   10.000   -.02192   -.00349   .00562   -.00052   -.00005   .00003
45.000   12.000   -.04026   -.01004   .01005   -.00013   -.00032   .00055
         GRADIENT   -.04790   -.00021   -.00290   .00002   -.00001   -.00007

RUN NO.   0/ 0   RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
50.000   8.000   -.00508   -.00158   .00328   -.00119   -.00010   .00027
50.000   10.000   -.01849   -.00272   .00530   -.00007   .00007   .00017
50.000   12.000   -.03715   -.00927   .00953   .00021   .00026   .00042
         GRADIENT   -.04790   -.00021   -.00290   .00002   -.00001   -.00007

ARC 14-120(CA23B)   747/1 ATI 0351 (ORBITER DATA)   (TNH027)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

| BETA = .000 |
| RUDDER = .000 |
| IORB = 8.000 |
| DY = .000 |

PARAMETRIC DATA

| STAB = 5.000 |
| ELEVON = .000 |
| DX = .000 |
| MACH = .600 |

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.01151	-.00350	.01424	.00033	.00036	.00018
3.500	10.000	-.04437	-.00693	.01458	.00238	.00332	.00022
3.500	12.000	-.09157	-.02118	.02260	.00238	-.00009	.00049
3.500	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.01254	-.00359	.01161	.00150	.00034	.00005
7.500	10.000	-.04592	-.00699	.01222	.00234	.00084	.00045
7.500	12.000	-.08851	-.02041	.01871	.00282	-.00010	.00034
7.500	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.01240	-.00346	.00938	.00228	.00042	-.00003
10.000	10.000	-.04638	-.00684	.01024	.00129	.00062	.00072
10.000	12.000	-.09702	-.01993	.01558	.00292	.00002	.00024
10.000	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.01634	-.00422	.00780	.00254	-.00002	-.00029
15.000	10.000	-.04700	-.00739	.00925	.00226	.00007	.00026
15.000	12.000	-.08152	-.01880	.01443	.00445	.00041	.00017
15.000	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.01060	-.00218	.00443	.00252	.00009	.00060
30.000	10.000	-.03596	-.00447	.00598	.00196	.00006	.00024
30.000	12.000	-.05027	-.01355	.01147	.00362	.00026	.00012
30.000	GRADIENT	-.04833	.00005	-.00394	.00017	-.00003	.00008

DATE 23 MAR 76　　　　TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)　747/1 ATI 03SI (ORBITER DATA)　　(TNH027)　(17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 8.000	DX = .000
DY = .000	MACH = .600

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCLM	DCD	DCY	DCYN	DCBL
45.000	8.000	.00026	.00511	-.00129	.00162	-.00010	-.00072
45.000	10.000	-.02078	.00587	-.00254	.00212	.00006	-.00018
45.000	12.000	-.04148	.01044	-.00962	.00255	.00021	.00037
45.000	GRADIENT	-.04582	-.00493	-.00141	.00028	.00000	-.00006

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCLM	DCD	DCY	DCYN	DCBL
50.000	8.000	.00294	.00403	-.00122	.00187	.00007	-.00076
50.000	10.000	-.01945	.00490	-.00228	.00229	.00007	-.00014
50.000	12.000	-.03623	.01019	-.00832	.00222	.00033	.00052
50.000	GRADIENT	-.04517	-.00519	-.00179	.00032	.00002	-.00009

ARC 14-120(CA23B)　747/1 ATI 03SI (ORBITER DATA)　　(TNH034)　(17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO.　0/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCLM	DCD	DCY	DCYN	DCBL
3.500	6.000	-.01786	.01903	-.00546	.00332	-.00007	.00056
3.500	8.000	-.05908	.01713	-.00908	.00371	.00018	.00016
3.500	10.000	-.10183	.01916	-.01492	.00357	.00044	.00018
3.500	GRADIENT	-.03891	-.00748	-.00547	-.00023	-.00011	-.00038

RUN NO.　0/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCLM	DCD	DCY	DCYN	DCBL
7.500	6.000	-.01641	.01416	-.00498	.00332	-.00017	.00018
7.500	8.000	-.05169	.01250	-.00932	.00314	-.00008	.00002
7.500	10.000	-.09455	.01484	-.01389	.00294	.00025	.00012
7.500	GRADIENT	-.04155	-.02548	-.00392	-.00015	-.00009	-.00025

ARC 14-120(CA23B) 747/1 AT1 035I (ORBITER DATA)   (TNH034) (? OCT ,)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	STAB =	.000	5.000
RUDDER =	ELEVON =	.000	.000
IORB =	DX =	6.000	.000
DY =	MACH =	.000	.600

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	6.000	-.01663	-.00514	.01181	.00282	-.00019	-.00002
10.000	8.000	-.05337	-.00797	.01022	.00308	-.00006	-.00002
10.000	10.000	-.09114	-.01320	.01322	.00278	.00015	-.00002
GRADIENT		-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	6.000	-.01736	-.00449	.00851	.00243	-.00042	-.00011
15.000	8.000	-.05103	-.00746	.00710	.00309	-.00016	-.00018
15.000	10.000	-.08662	-.01206	.01048	.00274	.00016	-.00009
GRADIENT		-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	6.000	-.01202	-.00293	.00625	.00237	-.00038	-.00055
30.000	8.000	-.03756	-.00503	.00652	.00307	-.00000	-.00047
30.000	10.000	-.06403	-.00813	.00875	.00228	-.00025	-.00011
GRADIENT		-.04833	.00005	-.00394	.00017	.00003	-.00008

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	6.000	-.00847	-.00262	.00520	.00176	-.00033	-.00047
45.000	8.000	-.02439	-.00376	.00655	.00196	-.00028	-.00073
45.000	10.000	-.04397	-.00545	.00784	.00196	-.00026	-.00003
GRADIENT		-.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	6.000	-.00897	-.00227	.00489	.00178	-.00011	-.00015
50.000	8.000	-.01920	-.00361	.00681	.00173	-.00018	-.00071
50.000	10.000	-.03858	-.00474	.00781	.00234	-.00013	-.00021
GRADIENT		-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B)   747/1 AT1 035) (ORBITER DATA)　　(TNH035)　(17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

STAB =	.000	=	5.000
ELEVON =	.000	=	.000
DX =	4.000	=	.000
MACH =	.000	=	.600

BETA =		
RUDDER =		
IORB =		
DY =		

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	4.000	-.02033	-.00358	.01564	.00214	.00037	.00043
3.500	6.000	-.06597	-.00737	.01506	.00184	.00028	.00059
3.500	8.000	-.09756	-.01132	.01203	.00136	.00024	.00029
	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	4.000	-.01822	-.00313	.01038	.00156	.00048	.00039
7.500	6.000	-.06073	-.00700	.01018	.00141	.00028	.00041
7.500	8.000	-.09703	-.01043	.00709	.00087	.00022	.00020
	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	4.000	-.01384	-.00299	.00824	.00111	.00052	.00046
10.000	6.000	-.05231	-.00647	.00647	.00120	.00032	.00022
10.000	8.000	-.08542	-.00979	.00600	.00112	.00036	.00003
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	4.000	-.01238	-.00241	.00569	.00077	.00039	.00020
15.000	6.000	-.04890	-.00548	.00626	.00056	.00015	.00006
15.000	8.000	-.08142	-.00859	.00371	.00096	.00030	.00007
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	4.000	-.00989	-.00117	.00271	-.00011	.00025	.00026
30.000	6.000	-.03656	-.00329	.00408	.00024	.00002	.00017
30.000	8.000	-.06077	-.00534	.00328	.00027	.00010	.00017
	GRADIENT	-.04833	.00005	-.00334	.00017	-.00003	.00008

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (TNH035)   (17

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

.000	STAB =	.000
.000	ELEVON =	.000
4.000	DX =	.000
4.000	MACH =	.600

BETA =
RUDDER =
IORB =
DY =

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	4.000	.00098	-.00026	.00223	-.00039	-.00005	-.00020
45.000	6.000	-.02753	-.00184	.00334	-.00049	-.00001	-.00011
45.000	8.000	-.03984	-.00328	.00383	-.00062	-.00016	-.00051
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	4.000	.00466	.00001	.00214	-.00051	-.00006	-.00013
50.000	6.000	-.02542	-.00141	.00314	-.00086	-.00011	-.00011
50.000	8.000	-.03415	-.00270	.00379	-.00091	-.00026	-.00062
	GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (TNH036)   (23 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

.000	STAB =	5.000
10.000	ELEVON =	.000
6.000	DX =	.000
.000	MACH =	.600

BETA =
RUDDER =
IORB =
DY =

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04879	-.00713	.01623	.00304	-.00008	.00006
10.000	-.09803	-.01311	.01746	.00372	.00053	.00021
	.00000	.00000	.00000	.00000	.00000	.00000
GRADIENT						

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04323	-.00672	.01155	.00377	.00026	-.00016
10.000	-.08968	-.01204	.01288	.00349	.00045	-.00010
	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038
GRADIENT						

ARC 14-120(CA23B) 747/1 AT1 035) (ORBITER DATA)   (TNH036)   (23 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = 10.000	ELEVON = .000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04496	-.00639	.00870	.00384	.00041	-.00010
10.000	-.08657	-.01124	.01085	.00295	.00038	-.00005
GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04311	-.00549	.00644	.00360	.00025	-.00008
10.000	-.07959	-.00985	.00896	.00297	.00032	-.00004
GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.02866	-.00374	.00510	.00271	.00007	-.00047
10.000	-.05692	-.00583	.00596	.00270	.00011	-.00026
GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

DZ = 45.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01920	-.00185	.00435	.00225	.00000	-.00056
10.000	-.03935	-.00314	.00586	.00279	.00010	-.00018
GRADIENT	-.04833	.00005	-.00394	.00017	.00003	.00008

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01803	-.00153	.00389	.00207	.00014	-.00050
10.000	-.03090	-.00194	.00553	.00259	.00009	-.00019
GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

TABULATED SOURCE DATA - CA238

ARC 14-120(CA238) 747/1 AT1 035I (ORBITER DATA)

(TNH037) (23 (   )   648

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.
LREF	=	474.8100 IN.
BREF	=	936.6800 IN.
SCALE	=	.0125

XMRP	=	1109.0000 IN. XO
YMRP	=	.0000 IN. YO
ZMRP	=	375.0000 IN. ZO

PARAMETRIC DATA

BETA	=	.000
RUDDER	=	.000
IORB	=	6.000
DY	=	.000

STAB	=	-1.000
ELEVON	=	.000
DX	=	.000
MACH	=	.600

DZ

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

3.500

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.01248	-.00441	.01853	.00401	.00058	.00048
8.000	-.05894	-.00880	.01711	.00299	.00017	.00017
10.000	-.10367	-.01488	.01863	.00327	.00071	.00041
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

DZ

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

7.500

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.01332	-.00456	.01268	.00311	.00017	.00018
8.000	-.05422	-.00833	.01209	.00353	.00041	-.00011
10.000	-.09400	-.01364	.01445	.00258	-.00044	-.00003
GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

DZ

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

10.000

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.01025	-.00431	.01074	.00287	.00004	.00016
8.000	-.05564	-.00818	.00957	.00230	.00022	.00001
10.000	-.09193	-.01299	.01239	.00231	.00042	.00002
GRADIENT	-.04155	-.00392	-.00648	-.00015	.00000	-.00025

DZ

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

15.000

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.00819	-.00384	.00794	.00239	.00002	-.00003
8.000	-.05537	-.00729	.00637	.00300	.00026	-.00018
10.000	-.04834	-.01187	.00967	.00185	.00013	.00010
GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

DZ

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

30.000

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.00732	-.00253	.00480	.00175	-.00009	-.00032
8.000	-.04208	-.00488	.00470	.00231	.00021	-.00034
10.000	-.05407	-.00738	.00799	.00234	.00014	.00013
GRADIENT	-.04357	-.00146	-.00498	-.00002	-.00007	-.00004

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (TNH037) (23 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   = -1.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   .000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

                    RN/L =   3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000
       ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
        6.000   -.01336   -.00198   .00251   .00180   -.00002   -.00036
        8.000   -.02421   -.00337   .00599   .00194   .00007   -.00068
       10.000   -.04167   -.00469   .00697   .00203   -.00002   -.00006
     GRADIENT   -.04833   .00005   -.00394   .00017   -.00003   .00008

                    RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000
       ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
        6.000   -.00026   -.00160   .00313   .00160   .00014   -.00027
        8.000   -.02044   -.00284   .00545   .00153   .00002   -.00052
       10.000   -.03793   -.00378   .00641   .00158   -.00015   -.00009
     GRADIENT   -.04582   -.00141   -.00493   .00028   .00000   -.00006

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)   (TNH038) (23 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   .000   STAB   =   5.000
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   .000   ELEVON =   5.000
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO   IORB   = 6.000   DX   =   .000
SCALE =   .0125   DY   =   .000   MACH   =   .600

                    RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ =   3.500
       ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
        6.000   .00191   -.00591   .01854   .00218   -.00009   .00019
        8.000   -.04490   -.01010   .01811   .00268   .00001   .00045
       10.000   -.09743   -.01677   .02049   .00352   -.00005   .00010
     GRADIENT   .00000   .00000   .00000   .00000   .00000   .00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

REFERENCE DATA   ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)

SPEF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA = .000	STAB = .000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	OX = .000
DY = .000	MACH = .600

DZ = 7.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	.00514	-.00517	.01237	.00170	-.00005	.00004
8.000	-.03850	-.00917	.01224	.00238	.00026	.00015
10.000	-.08369	-.01503	.01475	.00294	.00007	.00023
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	-.00009

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	.00526	-.00456	.00919	.00173	.00009	-.00006
8.000	-.03481	-.00822	.00988	.00231	.00029	.00007
10.000	-.08228	-.01438	.01234	.00284	.00013	.00014
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	-.00009

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	-.00215	-.00413	.00616	.00208	.00013	-.00019
8.000	-.03194	-.00752	.00777	.00234	.00032	-.00002
10.000	-.07386	-.01269	.01053	.00298	.00026	-.00018
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	-.00009

DZ = 30.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	.00582	-.00276	.00471	.00175	.00006	-.00032
8.000	-.02052	-.00504	.00569	.00179	.00014	.00001
10.000	-.05927	-.00883	.00782	.00274	.00017	.00016
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	.00009

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	.00301	-.00175	.00343	.00154	-.00001	-.00024
8.000	-.02008	-.00352	.00439	.00212	.00026	-.00004
10.000	-.04768	-.00648	.00636	.00225	.00003	-.00014
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	.00009

DATE 23 MAR 76 TABULATED SOURCE DATA - CA23B PAGE 567

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (TNH038)   (23 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
6.000	.00170	-.00164	.00321	.00112	-.00026	-.00044
8.000	-.01478	-.00325	.00423	.00170	-.00008	-.00012
10.000	-.04308	-.00553	.00595	.00265	-.00005	-.00015
GRADIENT	-.07267	-.01500	-.00115	.00191	-.00031	-.00009

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNH039)   (23 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	10.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.05438	-.01020	.01298	.00329	.00041	.00089
10.000	-.10282	-.01741	.01666	.00155	.00009	.00084
GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04489	-.00895	.01019	.00290	.00043	.00069
10.000	-.09059	-.01553	.01396	.00270	.00021	.00042
GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

DZ = 10.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.04123	-.00817	.00948	.00237	.00030	.00056
10.000	-.09414	-.01527	.01243	.00208	.00020	.00061
GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

DATE 23 MAR 76 TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.9100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

(TNH039) (L , 75)

PARAMETRIC DATA

BETA =	.000	STAB = 5.000
RUDDER =	10.000	ELEVON = 5.000
IORB =	6.000	DX = .000
DY =	.000	MACH = .600

DZ = 15.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.03908	-.00747	.00823	.00173	.00023	.00056
10.000	-.09631	-.01371	.01154	.00203	.00021	.00052
GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.02994	-.00503	.00638	.00137	.00009	.00022
10.000	-.05831	-.00851	.00986	.00180	.00007	.00022
GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01664	-.00362	.00575	.00203	.00009	.00000
10.000	-.04666	-.00619	.00769	.00248	.00008	-.00015
GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

DZ = 50.000   RN/L = 3.53   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01470	-.00341	.00535	.00210	.00011	.00006
10.000	-.04220	-.00532	.00694	.00205	.00001	-.00009
GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (TNH040) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF	=	474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER = .000	ELEVON = 5.000
BREF	=	936.6900 IN.	ZMRP = 375.0000 IN.	ZO	IORB = .000	DX = 4.000
SCALE	=	.0125			DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	4.000	-.02039	-.00545	.01175	.00226	.00038	.00103
3.500	6.000	-.06091	-.00930	.01167	.00210	.00030	.00107
3.500	8.000	-.10117	-.01364	.01166	.00231	.00037	.00097
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	4.000	-.01524	-.00487	.00862	.00238	.00026	.00063
7.500	6.000	-.05715	-.00831	.00842	.00168	.00022	.00085
7.500	8.000	-.09689	-.01268	.00876	.00154	.00027	.00087
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	4.000	-.01397	-.00462	.00741	.00291	.00037	.00055
10.000	6.000	-.05200	-.00778	.00793	.00190	.00027	.00072
10.000	8.000	-.09185	-.01194	.00812	.00154	.00027	.00070
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	4.000	-.01824	-.00414	.00522	.00154	.00017	.00028
15.000	6.000	-.04705	-.00684	.00673	.00109	.00008	.00064
15.000	8.000	-.08360	-.01053	.00734	.00058	.00010	.00076
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	4.000	-.01359	-.00269	.00330	.00121	.00006	-.00010
30.000	6.000	-.03375	-.00439	.00533	.00138	.00008	.00013
30.000	8.000	-.05529	-.00709	.00555	.00044	.00008	.00046
30.000	GRADIENT	-.04765	-.00056	-.00317	.00006	.00002	-.00002

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

				(TNH040)
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	PARAMETRIC DATA
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	
SCALE =	.0125			

BETA = .000　　STAB = 5.000
RUDDER = .000　　ELEVON = 5.000
IORB = 4.000　　DX = .000
DY = .000　　MACH = .600

RUN NO.　0/ 0　　RN/L = 3.33　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	4.000	-.00796	-.00159	.00261	.00108	.00006	-.00008
45.000	6.000	-.02867	-.00287	.00416	.00104	.00001	.00016
45.000	8.000	-.04340	-.00458	.00528	.00132	.00011	.00027
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO.　0/ 0　　RN/L = 3.32　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	4.000	-.00684	-.00131	.00238	.00077	.00002	-.00005
50.000	6.000	-.02764	-.00237	.00369	.00069	-.00005	.00024
50.000	8.000	-.03577	-.00375	.00527	.00154	.00009	.00026
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)

REFERENCE DATA

				(TNHX10)
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	PARAMETRIC DATA
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	
PREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	
SCALE =	.0125			

BETA = .000　　STAB = 5.000
RUDDER = .000　　ELEVON = 5.000
IORB = 8.000　　DX = .000
DY = .000　　MACH = .600

RUN NO.　0/ 0　　RN/L = 3.34　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	10.000	-.05575	-.01037	.01199	.00150	-.00035	.00063
3.500	12.000	-.09646	-.02320	.01598	.00199	-.00048	.00024
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.　0/ 0　　RN/L = 3.34　　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	10.000	-.05298	-.00942	.01037	.00140	-.00027	.00090
7.500	12.000	-.09099	-.02060	.01401	.00191	-.00062	.00047
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

ARC 14-120(CA23B) 747/I AT1 02S1 (ORBITER DATA)   (TNHX10)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.05056	-.00876	.00920	.00146	-.00016	.00119
10.000	12.000	-.08665	-.01867	.01262	.00197	-.00071	.00073
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.04969	-.00791	.00785	.00075	-.00035	.00087
15.000	12.000	-.08298	-.01697	.01092	.00135	-.00082	.00037
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03451	-.00435	.00581	.00091	-.00052	.00069
30.000	12.000	-.06216	-.01078	.00807	.00073	-.00096	.00037
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02022	-.00194	.00467	.00172	-.00048	.00064
45.000	12.000	-.04393	-.00561	.00601	.00159	-.00085	-.00006
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

CZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.02212	-.00202	.00389	.00187	-.00047	.00046
50.000	12.000	-.03954	-.00415	.00542	.00202	-.00086	-.00004
	GRADIENT	-.04012	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (TNHX13)   (1   OF 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
1ORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05901	-.00887	.01275	.00122	.00024	.00114
3.500	10.000	-.10852	-.01668	.01608	.00027	.00009	.00146
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05802	-.00852	.01020	.00037	.00019	.00098
7.500	10.000	-.10152	-.01536	.01324	-.00005	.00007	.00136
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.05668	-.00839	.00963	.00029	.00008	.00087
10.000	10.000	-.09935	-.01493	.01250	.00005	.00003	.00122
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.05432	-.00707	.00807	-.00055	.00001	.00080
15.000	10.000	-.09492	-.01339	.01094	-.00015	-.00006	.00107
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.04048	-.00498	.00681	-.00053	-.00009	.00045
30.000	10.000	-.07360	-.00934	.00895	.00080	-.00003	.00076
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.03005	-.00373	.00603	-.00007	-.00003	.00044
45.000	10.000	-.05745	-.00628	.00734	.00037	.00017	.00062
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNHX13) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

STAB = .000	STAB = 5.000	BETA =	-5.00/ 5.00
ELEVON = .000	ELEVON = 5.000	RUDDER =	
DX = 6.000	DX = .000	IORB =	
MACH = .000	MACH = .600	DY =	

RUN NO. 0/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.02713	-.00280	.00543	.00001	.00003	.00060
50.000	10.000	-.05048	-.00491	.00667	.00054	-.00014	.00075
	GRADIENT	-.04612	-.00265	-.00370	.00004	-.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (TNHX14) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

STAB = .000	STAB = 5.000	BETA =	-5.00/ 5.00
ELEVON = .000	ELEVON = 5.000	RUDDER =	
DX = 6.000	DX = 10.000	IORB =	
MACH = .000	MACH = .600	DY =	

RUN NO. 0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.06091	-.00899	.00940	.00030	.00038	.00139
3.500	10.000	-.11599	-.01682	.01105	-.00053	.00022	.00154
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. 0/ 0   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05585	-.00942	.00759	-.00000	.00027	.00108
7.500	10.000	-.10527	-.01539	.00648	-.00040	.00015	.00141
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO. 0/ 0   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.05635	-.00821	.00638	-.00121	.00012	.00093
10.000	10.000	-.10389	-.01481	.00761	-.00099	.00010	.00136
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L =   3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.05353	-.00703	.00528	-.00120	.00013	.00103
15.000	10.000	-.09590	-.01287	.00455	-.00057	.00007	.00123
	GRADIENT	-.04711	-.00234	-.00252	.00009	.00001	-.00006

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)

REFERENCE DATA   (TNHX14)   (17 OCT 75)

SPEF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   PARAMETRIC DATA
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   BETA   =   .000   STAB   =   5.000
SCALE =   .0125   RUDDER =   .000   ELEVON =   5.000
                                                           IORB   = 6.000   DX   = 10.000
                                                           DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	30.000	-.03860	-.00494	.00452	-.00123	.00001	.00059
10.000	30.000	-.07191	-.00888	.00574	-.00072	-.00003	.00078
GRADIENT		-.04785	-.00056	-.00317	.00006	-.00002	-.00002

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	45.000	-.02952	-.00391	.00415	-.00026	-.00018	.00061
10.000	45.000	-.05116	-.00556	.00505	-.00052	-.00019	.00065
GRADIENT		-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	50.000	-.02251	-.00320	.00458	-.00152	-.00011	.00059
10.000	50.000	-.04945	-.00522	.00495	-.00054	-.00019	.00071
GRADIENT		-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)

REFERENCE DATA   (TNHX15)   (17 OCT 75)

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   PARAMETRIC DATA
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   BETA   =   .000   STAB   =   5.000
SCALE =   .0125   RUDDER =   .000   ELEVON =   5.000
                                                           IORB   = 8.000   DX   = 10.000
                                                           DY   =   .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	3.500	-.06896	-.01387	.00831	-.00080	.00015	.00137
12.000	3.500	-.11503	-.02678	.01207	.00149	.00003	.00122
GRADIENT		-.04451	-.00579	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	7.500	-.06158	-.01118	.00772	.00003	-.00007	.00138
12.000	7.500	-.10429	-.02369	.01082	.00131	-.00024	.00100
GRADIENT		-.04552	-.00507	-.00425	.00012	.00006	-.00011

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (TNHX15) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

BETA =	STAB = .000 5.000
RUDDER =	ELEVON = .000 5.000
IORB =	DX = 8.000 10.000
DY = -5.00 5.00	MACH = .000 .600

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.05639	-.00946	.00721	.00064	.00004	.00139
10.000	12.000	-.09661	-.02157	.00998	.00132	-.00035	.00078
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.05254	-.00828	.00609	.00025	-.00013	.00115
15.000	12.000	-.08731	-.01873	.00853	.00067	-.00067	.00091
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03332	-.00418	.00472	.00079	-.00024	.00096
30.000	12.000	-.06374	-.01162	.00643	.00105	-.00075	.00076
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02608	-.00303	.00389	.00061	-.00043	.00049
45.000	12.000	-.04649	-.00679	.00515	.00190	-.00065	.00034
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.02004	-.00208	.00380	.00098	-.00041	.00063
50.000	12.000	-.03890	-.00513	.00486	.00159	-.00081	.00044
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNHX16)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125				

PARAMETRIC DATA

BETA	=	.000	STAB	=	.000
RUDDER	=	.000	ELEVON	=	5.000
ICRB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.06113	-.00634	.00471	.00114	.00032	.00115
3.500	10.000	-.11479	-.01393	.00516	.00087	.00020	.00141
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L =   3.34   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05638	-.00622	.00229	.00129	.00038	.00093
7.500	10.000	-.10634	-.01320	.00261	.00119	.00026	.00117
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO.   0/ 0   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.05640	-.00624	.00158	.00052	.00022	.00085
10.000	10.000	-.10500	-.01282	.00197	.00091	.00014	.00114
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.05120	-.00599	.00137	.00033	.00016	.00075
15.000	10.000	-.09568	-.01199	.00191	.00102	.00004	.00093
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.03825	-.00459	.00190	.00039	.00003	.00028
30.000	10.000	-.07393	-.00841	.00249	.00070	-.00003	.00078
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO.   0/ 0   RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02714	-.00346	.00259	.00053	.00003	.00041
45.000	10.000	-.05439	-.00564	.00302	.00123	.00015	.00038
	GRADIENT	-.04649	-.00225	-.00359	.00004	-.00001	-.00004

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNHX16)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB =	.000	5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON =	.000	5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX =	6.000	20.000
SCALE =	.0125		MACH =	.000	.600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

BETA = RUDDER = IORB = DY =

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.02526	-.00300	.00266	.00078	.00009	.00043
50.000	10.000	-.05160	-.00494	.00298	.00145	-.00016	.00037
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNHX17)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB =	.000	5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON =	.000	5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX =	8.000	20.000
SCALE =	.0125		MACH =	.000	.600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

BETA = RUDDER = IORB = DY =

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	10.000	-.07194	-.01240	.00603	-.00009	.00004	.00072
3.500	12.000	-.11485	-.02458	.00788	.00325	-.00012	.00103
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	10.000	-.06455	-.00980	.00492	.00109	-.00000	.00092
7.500	12.000	-.10756	-.02295	.00649	.00238	-.00033	.00079
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.05907	-.00811	.00395	.00186	.00000	.00109
10.000	12.000	-.10245	-.02173	.00552	.00170	-.00048	.00060
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.05750	-.00772	.00293	.00212	-.00009	.00072
15.000	12.000	-.09709	-.02025	.00436	.00168	-.00059	.00048
	GRADIENT	-.04751	-.00234	-.00357	.00009	.00001	-.00006

DATE 23 MAR 76 TABULATED SOURCE DATA - CA23B P: (17 OCT 75)

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA) (TNHX17) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

.000	STAB =	5.000
.000	ELEVON =	5.000
8.000	DX =	20.000
.000	MACH =	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	30.000	-.04240	-.04486	.00233	.00215	-.00015	.00070
12.000	30.000	-.07051	-.01311	.00381	.00276	-.00080	.00026
GRADIENT		-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	45.000	-.02781	-.00341	.00257	.00145	-.00049	.00054
12.000	45.000	-.05007	-.00754	.00347	.00261	-.00082	-.00009
GRADIENT		-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	50.000	-.02792	-.00301	.00242	.00184	-.00034	.00043
12.000	50.000	-.04699	-.00657	.00323	.00311	-.00078	-.00008
GRADIENT		-.04612	-.00265	-.00370	.00004	.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA) (TNHX27) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

.000	STAB =	5.000
.000	ELEVON =	.000
8.000	DX =	.000
.000	MACH =	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	3.500	-.04486	-.00721	.01470	.00335	.00121	.00023
12.000	3.500	-.09167	-.02110	.02238	.00239	.00068	.00047
GRADIENT		-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DZ	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	7.500	-.04611	-.00713	.01227	.00237	.00083	.00045
12.000	7.500	-.08975	-.02045	.01866	.00283	.00039	.00033
GRADIENT		-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

ARC 14-120(CA23B) 747/1 ATI 035(ORBITER DATA) (TNHX27) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF =	474.8100 IN.	YMRP = .0000 IN.	YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE =	.0125		

PARAMETRIC DATA

STAB =	.000	5.000
ELEVON =	.000	.000
DX =	8.000	.000
MACH =	.000	.600

BETA =	
RUDDER =	
IORB =	
DY =	

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.04655	-.00692	.01027	.00132	.00061	.00072
10.000	12.000	-.08741	-.02011	.01570	.00294	.00002	.00023
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.04708	-.00743	.00924	.00227	.00007	.00027
15.000	12.000	-.08172	-.01886	.01440	.00441	.00041	.00017
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03599	-.00454	.00603	.00198	.00006	.00024
30.000	12.000	-.06044	-.01352	.01148	.00351	.00026	.00011
	GRADIENT	-.04833	.00005	-.00394	.00017	-.00003	.00008

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02090	-.00261	.00590	.00214	.00006	-.00018
45.000	12.000	-.04167	-.00970	.01047	.00255	.00021	.00037
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.01949	-.00236	.00495	.00231	.00007	-.00014
50.000	12.000	-.03651	-.00843	.01024	.00222	.00033	.00052
	GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (TNHX28) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SREF = 2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO		STAB =	.000	5.000
LREF = 474.8100 IN.	YMRP =	.0000 IN. YO		ELEVON =	.000	.000
BREF = 936.6800 IN.	ZMRP =	375.0000 IN. ZO		DX =	6.000	10.000
SCALE = .0125				MACH =	.000	.600

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05591	-.00731	.00917	.00275	.00062	.00045
3.500	10.000	-.10299	-.01249	.00935	.00283	.00103	.00051
	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05119	-.00679	.00524	.00261	.00059	.00018
7.500	10.000	-.09406	-.01194	.00584	.00240	.00084	.00033
	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.04934	-.00672	.00360	.00194	.00037	.00011
10.000	10.000	-.03185	-.01149	.00454	.00192	.00065	.00038
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.04749	-.00613	.00181	.00193	.00039	-.00006
15.000	10.000	-.08837	-.01039	.00286	.00153	.00055	.00022
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.03913	-.00447	.00161	.00150	.00024	.00020
30.000	10.000	-.06512	-.00658	.00364	.00170	.00030	.00005
	GRADIENT	-.04833	.00005	-.00334	.00017	-.00003	.00008

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02768	-.00311	.00276	.00082	.00008	-.00037
45.000	10.000	-.04800	-.00420	.00336	.00153	.00025	.00026
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (TNHX28)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0125					

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01967	-.00272	.00351	.00081	.00013	-.00052
10.000	-.03884	-.00341	.00341	.00152	.00018	.00009
DZ						
50.000						
50.000 GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (TNHX29)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0125					

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	10.000
DY	=	.000	MACH	=	.600

RUN NO. 0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	.06068	-.01152	.01200	.00231	.00094	.00043
12.000	-.11040	-.02446	.01766	.00368	.00066	-.00044
DZ						
3.500						
3.500 GRADIENT	-.03891	-.00547	-.02748	-.00023	-.00011	-.00038

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	-.05537	-.00889	.00902	.00218	.00073	.00057
12.000	-.10244	-.02287	.01457	.00323	.00031	-.00022
DZ						
7.500						
7.500 GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	-.05129	-.00718	.00581	.00211	.00062	.00064
12.000	-.09616	-.02165	.01232	.00296	.00010	-.00005
DZ						
10.000						
10.000 GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	-.04775	-.00645	.00494	.00172	.00034	.00050
12.000	-.09121	-.02068	.01025	.00246	.00024	.00002
DZ						
15.000						
15.000 GRADIENT	-.04577	-.00146	-.00499	-.00002	-.00007	-.00004

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)　　　　(TNHX29)　(17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000	STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000	ELEVON = .000		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 8.000	DX = 10.000		
SCALE = .0125				DY = .000	MACH = .600		

RUN NO.　0/ 0　RN/L = 3.29　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03396	-.00411	.00412	.00146	.00012	.00026
30.000	12.000	-.06420	-.01407	.00844	.00286	.00027	.00018
GRADIENT		-.04833	.00005	-.00394	.00017	.00003	.00008

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02266	-.00230	.00409	.00159	.00012	-.00005
45.000	12.000	-.04496	-.00949	.00859	.00210	.00023	.00052
GRADIENT		-.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.01786	-.00196	.00394	.00153	.00026	.00033
50.000	12.000	-.04044	-.00843	.00861	.00181	.00058	.00058
GRADIENT		-.04517	-.00179	-.00519	.00032	.00002	.00009

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)　　　　(TNHX30)　(17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			BETA = .000	STAB = 5.000		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			RUDDER = .000	ELEVON = .000		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			IORB = 8.000	DX = 20.000		
SCALE = .0125				DY = .000	MACH = .600		

RUN NO.　0/ 0　RN/L = 3.31　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	10.000	-.06107	-.01003	.00649	.00209	.00124	.00056
3.500	12.000	-.11544	-.02468	.00954	.00230	.00079	.00052
GRADIENT		-.03691	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.　0/ 0　RN/L = 3.30　GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	10.000	-.05525	-.00806	.00385	.00198	.00098	.00055
7.500	12.000	-.10763	-.02347	.00811	.00218	.00053	.00011
GRADIENT		-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA) (TNHX30) (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

RUN NO. 0/ 0 PN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.04990	-.00662	.00222	.00197	.00080	.00048
10.000	12.000	-.10169	-.02254	.00709	.00209	.00033	-.00020
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.05118	-.00659	.00070	.00155	.00065	.00061
15.000	12.000	-.03612	-.02157	.00618	.00207	.00023	-.00033
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO. 0/ 0 PN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.05860	-.00392	.00161	.00127	.00030	.00030
30.000	12.000	-.05700	-.01511	.00606	.00241	-.00002	.00022
	GRADIENT	-.04833	.00003	-.00394	.00017	-.00003	.00008

RUN NO. 0/ 0 PN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	.02111	-.00246	.00289	.00105	.00007	.00014
45.000	12.000	.05526	-.01212	.00722	.00170	.00032	.00036
	GRADIENT	.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.01937	-.00211	.00321	.00135	.00023	.00010
50.000	12.000	-.0-096	-.00947	.00745	.00168	.00044	.00049
	GRADIENT	-.045:7	-.00179	-.00519	.00032	.00002	-.00009

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)

(TNHX31) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO			
LREF = 474.8100 IN.	YMRP = .0000 IN. YO			
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO			
SCALE = .0125				

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = 20.000
DY = .000	MACH = .600

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05396	-.00606	.00042	.00165	.00071	.00058
3.500	10.000	-.09749	-.01129	-.00024	.00153	.00093	.00053
	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.04975	-.00550	-.00109	.00162	.00060	.00043
7.500	10.000	-.09256	-.01055	-.00092	.00148	.00085	.00044
	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.04600	-.00538	-.00197	.00160	.00052	.00026
10.000	10.000	-.08892	-.01004	-.00143	.00143	.00079	.00041
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.04572	-.00493	-.00250	.00151	.00054	.00033
15.000	10.000	-.08462	-.00946	-.00169	.00150	.00078	.00024
	GRADIENT	-.04577	-.00146	-.00488	-.00022	-.00007	-.00004

RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.03508	-.00335	-.00038	.00148	.00029	-.00013
30.000	10.000	-.06557	-.00663	.00076	.00058	.00024	.00044
	GRADIENT	-.04833	.00005	-.00394	.00017	-.00003	.00008

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02315	-.00271	.00164	.00054	.00019	-.00019
45.000	10.000	-.04623	-.00434	.00235	.00125	.00026	.00005
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	.00006

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (TNHX31)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =	DX = 20.000
SCALE = .0125		DY =	MACH = .600

RUN NO. 0/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.01931	-.00248	.00220	.00017	.00016	-.00032
10.000	-.04289	-.00386	.00255	.00092	.00017	-.00005
GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

DZ
50.000
50.000

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (TNHX34)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA =	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER =	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB =	DX = .000
SCALE = .0125		DY =	MACH = .600

RUN NO. 0/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.05438	-.00882	.01703	.00366	.00019	.00015
10.000	-.10108	-.01458	.01886	.00360	.00043	.00021
GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

DZ
3.500
3.500

RUN NO. C/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.05159	-.00815	.01242	.00310	-.00007	.00003
10.000	-.09388	-.01351	.01451	.00289	.00025	.00014
GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

DZ
7.500
7.500

RUN NO. C/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.05308	-.00780	.01014	.00303	-.00005	-.00001
10.000	-.09055	-.01294	.01295	.00275	.00016	-.00004
GRADIENT	-.04310	-.00302	-.00589	-.00010	-.05909	-.00017

DZ
10.000
10.000

RUN NO. C/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
8.000	-.05075	-.00726	.00703	.00303	.00016	-.00018
10.000	-.08602	-.01174	.01020	.00272	.00016	.00011
GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

DZ
15.000
15.000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (TNHX34)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   STAB   = .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   ELEVON = .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   DX   = 6.000   DX   =   .000
SCALE =   .0125   DY   =   MACH   = .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
30.000   8.000   -.03742 -.00490   .00641   .00302 -.00000   -.00046
30.000   10.000   -.06345 -.00777   .00847   .00226 -.00024   -.00008
         GRADIENT -.04833   .00005 -.00394   .00017 -.00003   -.00008

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
45.000   8.000   -.02424 -.00359   .00639   .00190 -.00026   -.00072
45.000   10.000   -.04352 -.00512   .00754   .00194 -.00025   -.00004
         GRADIENT -.04582 -.00141 -.00493   .00028   .00000   -.00006

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
50.000   8.000   -.01907 -.00341   .00662   .00166 -.00018   -.00071
50.000   10.000   -.03799 -.00437   .00749   .00228 -.00013   -.00019
         GRADIENT -.04517 -.00179 -.00519   .00032   .00002   -.00009

ARC 14-120(CA23B)   747/1 AT1 02S1 (ORBITER DATA)   (TNHY10)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO   BETA   =   STAB   = .000   STAB   =   5.000
LREF = 474.8100 IN.   YMRP =   .0000 IN. YO   RUDDER =   ELEVON = .000   ELEVON =   5.000
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO   IORB   =   DX   = 8.000   DX   =   .000
SCALE =   .0125   DY   =   MACH   = .000   MACH   =   .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
3.500   10.000   -.05596 -.01008   .01194   .00158 -.00025   .00085
3.500   12.000   -.09685 -.02327   .01589   .00229 -.00042   .00065
         GRADIENT -.04451 -.00679 -.00468   .00014 -.00009   -.00014

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ   ALPHAO   DCL   DCD   DCLM   DCY   DCYN   DCBL
7.500   10.000   -.05299 -.00939   .01037   .00142 -.00026   .00093
7.500   12.000   -.09096 -.02058   .01401   .00196 -.00061   .00053
         GRADIENT -.04552 -.00507 -.00425   .00012   .00006   -.00011

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   (17 OCT 75)

ARC 14-120(CA23B) 747/1 AT1 0251 (ORBITER DATA)

(TNHY10)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

STAB = 5.000
ELEVON = 5.000
DX = 8.000
MACH = .600

BETA =
RUDDER =
IORB = -5.00/ 5.00
DY =

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.05042	-.00875	.00924	.00143	-.00020	.00109
10.000	12.000	-.08551	-.01869	.01266	.00189	-.00073	.00061
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.04364	-.00790	.00788	.00073	-.00036	.00082
15.000	12.000	-.08292	-.01698	.01097	.00128	-.00084	.00025
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03469	-.00437	.00585	.00089	-.00053	.00065
30.000	12.000	-.06209	-.01076	.00812	.00065	-.00097	.00030
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02027	-.00196	.00471	.00171	-.00049	.00061
45.000	12.000	-.04376	-.00557	.00607	.00160	-.00085	.00011
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.02202	-.00201	.00395	.00184	-.00047	.00044
50.000	12.000	-.03846	-.00414	.00547	.00200	-.00086	-.00008
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

DATE 23 MAR 76   TABULATED SOURCE DATA - CA238

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNHY13) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF =   474.8100 IN.   YMRP =   .0000 IN. YO
BREF =   936.6800 IN.   ZMRP =   375.0000 IN. ZO
SCALE =   .0125

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05878	-.00890	.01274	.00123	.00019	.00102
3.500	10.000	-.10819	-.01668	.01614	.00023	.00001	.00118
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05758	-.00650	.01019	.00035	.00013	.00087
7.500	10.000	-.10112	-.01332	.01325	-.00010	.00000	.00115
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.05623	-.00836	.00962	-.00026	.00003	.00074
10.000	10.000	-.09876	-.01485	.01252	.00000	-.00005	.00100
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.05394	-.00707	.00806	-.00054	-.00002	.00070
15.000	10.000	-.09436	-.01332	.01095	-.00019	.00011	.00092
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.04032	-.00497	.00677	-.00052	-.00010	.00039
30.000	10.000	-.07330	-.00927	.00893	.00076	-.00006	.00068
	GRADIENT	-.04785	-.00066	-.00317	.00006	.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02973	-.00368	.00599	-.00004	-.00003	.00040
45.000	10.000	-.05703	-.00620	.00732	.00039	-.00018	.00056
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNHY13) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = 5.000
IORB =	6.000	DX = .000
DY =	.000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.02705	-.00277	.00541	.00010	.00003	.00057
50.000	10.000	-.05018	-.00484	.00667	.00058	-.00016	.00069
	GRADIENT	-.04612	-.00265	-.00370	.00004	-.00001	-.00005

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (TNHY18) (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMPP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.00	STAB = 5.000
RUDDER =	.000	ELEVON = 5.000
IORB =	6.000	DX = .000
DY =	10.000	MACH = .600

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05330	-.00980	.01241	.00152	-.00116	-.00180
3.500	10.000	-.10297	-.01675	.01670	.00074	-.00165	-.00430
	GRADIENT	-.04451	-.00679	-.00468	.00014	.00009	-.00014

RUN NO.   0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.04861	-.00818	.01018	-.00016	-.00102	-.00144
7.500	10.000	-.09333	-.01465	.01303	-.00109	-.00135	-.00307
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

RUN NO.   0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.04836	-.00780	.00931	.00028	-.00080	-.00148
10.000	10.000	-.08934	-.01360	.01216	-.00111	-.00136	-.00269
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO.   0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.04619	-.00709	.00829	-.00011	-.00067	-.00140
15.000	10.000	-.08357	-.01209	.01098	-.00107	-.00105	-.00195
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

(TNHY18)   (17 OCT 75   )

REFERENCE DATA   ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.03742	-.00470	.00605	-.00024	-.00034	-.00071
30.000	10.000	-.06673	-.00781	.00801	-.00045	-.00068	-.00097
	GRADIENT	-.04785	-.00066	-.00317	.00006	-.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02352	-.00264	.00522	.00039	-.00017	-.00037
45.000	10.000	-.04797	-.00456	.00657	.00044	-.03051	-.00055
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	8.000	-.02311	-.00239	.00470	.00084	-.00010	-.00016
50.000	10.000	-.04420	-.00387	.00603	.00052	-.00052	-.00042
	GRADIENT	-.04612	-.00265	-.00370	.00004	.00001	-.00005

REFERENCE DATA   ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	10.000	-.05218	-.01392	.01293	.00060	-.00173	-.00235
3.500	12.000	-.09010	-.02199	.01747	-.00223	-.00141	-.00558
	GRADIENT	-.04451	-.00679	-.00468	.00014	-.00009	-.00014

RUN NO. 0/ 0   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	10.000	-.04884	-.01090	.01136	.00063	-.00138	-.00176
7.500	12.000	-.08693	-.02074	.01524	-.00161	-.00136	-.00431
	GRADIENT	-.04552	-.00507	-.00425	.00012	.00006	-.00011

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (TNHY19)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = 5.000
IORB   = 8.000   DX   = .000
DY   = 10.000   MACH   = .600

RUN NO. 0/ 0   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 10.000	10.000	-.04493	-.00880	.01028	.00052	-.00116	-.00147
10.000	12.000	-.08455	-.02014	.01367	-.00110	-.00135	-.00343
	GRADIENT	-.04611	-.00407	-.00400	.00011	.00004	-.00009

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 15.000	10.000	-.04849	-.00757	.00849	-.00006	-.00084	-.00070
15.000	12.000	-.08195	-.01761	.01199	.00070	-.00118	-.00233
	GRADIENT	-.04711	-.00234	-.00357	.00009	.00001	-.00006

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 30.000	10.000	-.0377?	-.00473	.00649	.00039	-.00060	-.00011
30.000	12.000	-.06056	-.01062	.00891	-.00095	-.00110	-.00100
	GRADIENT	-.04785	-.00066	-.00317	.00006	.00002	-.00002

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 45.000	10.000	-.02317	-.00259	.00543	.00115	-.00058	-.00014
45.000	12.000	-.04111	-.00528	.00709	.00182	-.00074	-.00079
	GRADIENT	-.04649	-.00225	-.00359	.00004	.00001	-.00004

RUN NO. 0/ 0   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 50.000	10.000	-.01990	-.00185	.00512	.00125	-.00050	-.00015
50.000	12.000	-.03063	-.00416	.00641	.00138	-.00093	-.00067
	GRADIENT	-.04612	-.00265	-.00370	.00001	.00001	-.00005

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (TNHY27)   (17 OCT 75

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. YO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	10.000	-.04445	-.00702	.01474	.00343	.00125	.00027
3.500	12.000	-.09119	-.02099	.02246	.00236	-.00009	.00053
	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	10.000	-.04596	-.00708	.01230	.00239	.00085	.00047
7.500	12.000	-.08850	-.02040	.01871	.00283	-.00009	.00037
	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.04651	-.00691	.01029	.00132	.00062	.00073
10.000	12.000	-.03733	-.02008	.01571	.00295	.00003	.00025
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.04708	-.00745	.00928	.00228	.00007	.00027
15.000	12.000	-.08157	-.01882	.01445	.00446	-.00041	.00018
	GRADIENT	-.04577	-.00146	-.00468	-.00002	-.00007	-.00004

RUN NO.   0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03604	-.00454	.00604	.00199	.00006	.00024
30.000	12.000	-.06040	-.01361	.01151	.00363	.00026	.00012
	GRADIENT	-.04833	.00005	-.00394	.00017	-.00003	.00008

RUN NO.   0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.02089	-.00261	.00591	.00215	.00007	-.00018
45.000	12.000	-.04165	-.00972	.01051	.00256	.00021	.00037
	GRADIENT	-.04582	-.00141	-.00493	.00228	.00000	-.00006

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA) (TNHY27) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB =	.000
LREF	=	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON =	.000
BREF	=	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX =	8.000
SCALE	=	.0125		MACH =	.000

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

RUN NO.	0/ 0	RN/L =	3.30	GRADIENT INTERVAL =	-5.00/ 5.00	
	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	10.000	-.01952	-.00237	.00495	.00232	.00007	-.00014
50.000	12.000	-.03641	-.00843	.01026	.00224	.00033	-.00053
50.000	GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA) (TNHY32) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	STAB =	.000
LREF	=	474.8100 IN.	YMRP = .0000 IN. YO	ELEVON =	.000
BREF	=	936.6800 IN.	ZMRP = 375.0000 IN. ZO	DX =	6.000
SCALE	=	.0125		MACH =	10.000

BETA = -5.00/ 5.00
RUDDER =
IORB =
DY =

RUN NO.	0/ 0	RN/L =	3.31	GRADIENT INTERVAL =	-5.00/ 5.00	
	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	8.000	-.04659	-.00883	.01349	.00108	-.00120	-.00148
3.500	10.000	-.09279	-.01462	.01577	.00131	-.00157	-.00368
3.500	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.	0/ 0	RN/L =	3.30	GRADIENT INTERVAL =	-5.00/ 5.00	
	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	8.000	-.0 353	-.0774	.00950	.00068	-.00083	-.00153
7.500	10.000	-.08615	-.01317	.01109	.00006	-.00107	-.00275
7.500	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.	0/ 0	RN/L =	3.30	GRADIENT INTERVAL =	-5.00/ 5.00	
	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	8.000	-.04733	-.00735	.00823	.00096	-.00067	-.00129
10.000	10.000	-.08706	-.01267	.01019	.00027	-.00121	-.00250
10.000	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.	0/ 0	RN/L =	3.30	GRADIENT INTERVAL =	-5.00/ 5.00	
	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	8.000	-.04682	-.00685	.00699	.00090	-.00059	-.00125
15.000	10.000	-.08152	-.01152	.00860	.00027	-.00115	-.00229
15.000	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA) (TNHY32) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

STAB = .000	BETA =		5.000
ELEVON = .000	RUDDER =		.000
DX = 6.000	IORB =		.000
MACH = 10.000	DY =		.600

RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 30.000	8.000	-.03575	-.00432	.00536	.00101	-.00017	-.00089
30.000	10.000	-.06274	-.00707	.00797	.00038	-.00051	-.00122
GRADIENT		-.04833	.00005	-.00394	.00017	-.00003	.00008

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 45.000	8.000	-.02312	-.00307	.00536	.00019	-.00026	-.00069
45.000	10.000	-.04632	-.00464	.00661	.00028	-.00037	-.00067
GRADIENT		-.04582	-.00141	-.00493	.00028	.00000	-.00006

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 50.000	8.000	-.01875	-.00254	.00560	.00035	-.00020	-.00087
50.000	10.000	-.03838	-.00368	.00659	.00044	-.00028	-.00056
GRADIENT		-.04517	-.00173	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA) (TNHY33) (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

STAB = .000	BETA =		5.000
ELEVON = .000	RUDDER =		.000
DX = 8.000	IORB =		.000
MACH = 10.000	DY =		.600

RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 3.500	10.000	-.05096	-.01369	.01431	-.00056	-.00093	-.00249
3.500	12.000	-.09671	-.02532	.02102	-.00100	-.00146	-.00560
GRADIENT		-.03831	-.00547	-.00748	-.00023	-.00011	-.00038

RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 0/ 0	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ 7.500	10.000	-.04894	-.01028	.01223	.00011	-.00077	-.00190
7.500	12.000	-.09240	-.02358	.01888	.00044	-.00140	-.00452
GRADIENT		-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI 035) (ORBITER DATA)   (TNHY33)   (17 OCT 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

STAB =	5.000
ELEVON =	.000
DX =	.000
MACH =	.600

BETA =	
RUDDER =	
IORB =	8.000
DY =	10.000

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	10.000	-.04674	-.00793	.01050	.00039	-.00063	-.00154
10.000	12.000	-.08918	-.02231	.01740	.00006	-.00133	-.00368
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	10.000	-.04757	-.00742	.00908	.00084	-.00054	-.00134
15.000	12.000	-.08444	-.02057	.01559	.00049	-.00132	-.00302
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO. 0/ 0   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	10.000	-.03432	-.00457	.00787	.00121	-.00023	-.00052
30.000	12.000	-.05625	-.01370	.01324	.00116	-.00104	-.00093
	GRADIENT	-.04833	.00005	-.00294	.00017	-.00003	-.00008

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	10.000	-.01994	-.00240	.00694	.00109	-.00042	-.00034
45.000	12.000	-.04163	-.01026	.01217	.00134	-.00027	-.00049
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

RUN NO. 0/ 0   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
50.000	10.000	-.01861	-.00253	.00651	.00135	-.00024	-.00030
50.000	12.000	-.03056	-.00975	.01158	.00137	-.00006	-.00026
	GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B   PAG. 596

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
!ORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RUN NO.   0/ 0   RN/L =   3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
3.500	8.000	-.05437	-.00879	.01688	.00363	.00019	.00015
3.500	10.000	-.10107	-.01458	.01986	.00350	.00043	.00020
	GRADIENT	-.03891	-.00547	-.00748	-.00023	-.00011	-.00038

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
7.500	8.000	-.05156	-.00814	.01236	.00309	-.00007	.00002
7.500	10.000	-.09385	-.01351	.01450	.00288	.00024	.00013
	GRADIENT	-.04155	-.00392	-.00648	-.00015	-.00009	-.00025

RUN NO.   0/ 0   PN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
10.000	8.000	-.05304	-.00779	.01009	.00301	.00004	-.00002
10.000	10.000	-.09063	-.01294	.01297	.00273	.00015	.00002
	GRADIENT	-.04310	-.00302	-.00589	-.00010	-.00009	-.00017

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
15.000	8.000	-.05072	-.00725	.00700	.00301	.00015	.00018
15.000	10.000	-.08597	-.01175	.01025	.00271	.00015	.00009
	GRADIENT	-.04577	-.00146	-.00488	-.00002	-.00007	-.00004

RUN NO.   0/ 0   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
30.000	8.000	-.03742	-.00489	.00639	.00301	.00000	-.00047
30.000	10.000	-.06343	-.00778	.00850	.00225	.00025	.00009
	GRADIENT	-.04833	.00005	-.00394	.00017	-.00003	.00008

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
45.000	8.000	-.02417	-.00360	.00643	.00190	-.00027	-.00073
45.000	10.000	-.04343	-.00513	.00762	.00194	-.00076	.00003
	GRADIENT	-.04582	-.00141	-.00493	.00028	.00000	-.00006

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (TNHY34)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SPEF =	2630.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = .000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

RUN NO.   0/ 0   RN/L =   3.30   GRADIENT INTERVAL =   -5.00/ 5.00

	ALPHAO	DCL	DCD	DCLM	DCY	DCYN	DCBL
DZ	8.000	-.01906	-.00342	.00667	.00167	-.00019	-.00071
50.000	10.000	-.03799	-.00439	.00756	.00229	-.00013	-.00019
50.000	GRADIENT	-.04517	-.00179	-.00519	.00032	.00002	-.00009

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (4NH008)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA		
SPEF =	2090.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = -1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

RN/L =   3.34   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 3.500	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
	.000	-.02984	-.00705	.01187	.00186	.00033	.00103	6.00000
	2.000	-.05931	-.01009	.01158	.00217	.00025	.00086	8.00000
	4.000	-.11750	-.01813	.01522	.00134	.00003	.00111	10.00000
	GRADIENT	-.02191	-.00277	.00084	-.00013	-.00007	.00002	1.00000

RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 7.500	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
	.000	-.02505	-.00582	.00835	.00111	.00019	.00092	6.00000
	2.000	-.05552	-.00930	.00911	.00123	.00023	.00077	8.00000
	4.000	-.10846	-.01646	.01245	.00098	.00004	.00112	10.00000
	GRADIENT	-.02095	-.00264	.00100	-.00003	-.00004	.00005	1.00000

RN/L =   3.35   GRADIENT INTERVAL =   -5.00/ 5.00

DZ = 10.000	ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
	.000	-.02359	-.00527	.00726	.00035	.00001	.00069	6.00000
	2.000	-.06125	-.00980	.00867	-.00097	-.00018	.00041	8.00000
	4.000	-.10743	-.01557	.01126	.00043	-.00004	.00090	10.00000
	GRADIENT	-.02095	-.00258	.00100	.00002	-.00001	.00005	1.00000

APC 14-120(CA23B)   747/1 ATI 0251 (ORBITER DATA)   (4NH008)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02494	-.00437	.05582	.00045	-.00003	.00057	6.00000
2.000	-.06138	-.00776	.00704	.00022	.00000	.00042	8.00000
4.000	-.10059	-.01381	.00994	.00083	-.00003	.00091	10.00000
GRADIENT	-.01891	-.00236	.00103	.00010	.00000	.00009	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02255	-.00256	.00391	-.00006	-.00010	.00034	6.00000
2.000	-.04697	-.00511	.00544	.00012	-.00008	.00023	8.00000
4.000	-.08042	-.00954	.00740	.00086	-.00018	.00055	10.00000
GRADIENT	-.01447	-.00171	.00087	.00023	-.00002	.00005	1.00000

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02209	-.00154	.00277	-.00014	-.00014	.00033	6.00000
2.000	-.03717	-.00349	.00418	.00016	-.00012	.00022	8.00000
4.000	-.05073	-.00583	.00573	.00091	-.00024	.00029	10.00000
GRADIENT	-.00956	-.00107	.00074	.00026	-.00003	-.00001	1.00000

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01841	-.00133	.00271	-.00025	-.00019	.00024	6.00000
2.000	-.03392	-.00292	.00398	.00048	-.00003	.00036	8.00000
4.000	-.05722	-.00522	.00519	.00096	-.00024	.00041	10.00000
GRADIENT	-.00970	-.00097	.00062	.00030	-.00001	.00004	1.00000

C.8

REFERENCE DATA

					PARAMETRIC DATA	

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01518	-.00528	.00900	.00291	.00025	.00104	8.00000
2.000	-.05613	-.01136	.01174	.00207	-.00006	.00173	10.00000
4.000	-.10957	-.02560	.01638	.00220	-.00033	.00061	12.00000
GRADIENT	-.02360	-.00508	.00185	-.00018	-.00014	-.00011	1.00000

DZ = 7.500   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01496	-.00366	.00636	.00190	.00003	.00086	8.00000
2.000	-.05133	-.01113	.01011	.00205	-.00003	.00141	10.00000
4.000	-.10487	-.02390	.01445	.00226	-.00043	.00057	12.00000
GRADIENT	-.02248	-.00506	.00202	.00009	-.00012	-.00007	1.00000

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02358	-.00520	.00685	.00123	.00003	.00056	8.00000
2.000	-.05623	-.01105	.00894	.00243	.00008	.00119	10.00000
4.000	-.10563	-.02268	.01313	.00245	-.00048	.00056	12.00000
GRADIENT	-.01926	-.00437	.00157	.00030	-.00013	-.00000	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02637	-.00453	.00542	-.00003	-.00023	.00051	8.00000
2.000	-.06582	-.01038	.00764	.00072	-.00029	.00091	10.00000
4.000	-.09871	-.02099	.01122	.00194	-.00067	.00045	12.00000
GRADIENT	-.01808	-.00411	.00145	.00049	-.00011	-.00001	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01958	-.00263	.00392	.00009	-.00025	.00017	8.00000
2.000	-.06095	-.00558	.00561	.00160	-.00035	.00062	10.00000
4.000	-.09746	-.01353	.00638	.00252	-.00058	.00047	12.00000
GRADIENT	-.01346	-.00242	.00111	.00061	-.00016	-.00007	1.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (4NH009)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = -1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	8.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01829	-.00162	.00258	.00103	-.00014	.00016	8.00000
2.000	-.04308	-.00465	.00404	.00157	-.00041	.00045	10.00000
4.000	-.05644	-.00810	.00584	.00279	-.00080	.00001	12.00000
GRADIENT	-.00954	-.00162	.00082	.00044	-.00016	-.00004	1.00000

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01271	-.00111	.00281	.00147	-.00014	.00008	8.00000
2.000	-.03660	-.00388	.00371	.00172	-.00047	.00021	10.00000
4.000	-.05147	-.00685	.00506	.00266	-.00095	-.00002	12.00000
GRADIENT	-.00969	-.00143	.00056	.00030	-.00020	-.00003	1.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (4NH010)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	8.000	DX = .000
SCALE =	.0125			DY =	.000	MACH = .600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00912	-.00558	.01110	.00276	.00020	.00036	8.00000
2.000	-.05553	-.01027	.01195	.00153	-.00036	.00062	10.00000
4.000	-.09620	-.02308	.01593	.00203	-.00049	.00024	12.00000
GRADIENT	-.02177	-.00437	.00121	-.00018	-.00017	-.00003	1.00000

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI O2SI (ORBITER DATA)

(4NHOIO) (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01196	-.00454	.00900	.00144	.00005	.00046	8.00000
2.000	-.05278	-.00933	.01033	.00143	-.00027	.00089	10.00000
4.000	-.09080	-.02051	.01399	.00193	-.00062	.00047	12.00000
GRADIENT	-.01971	-.00399	.00125	.00012	-.00017	.00000	1.00000

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01473	-.00397	.00734	.00070	.00000	.00057	8.00000
2.000	-.05048	-.00869	.00916	.00149	-.00016	.00119	10.00000
4.000	-.08654	-.01863	.01263	.00198	-.00071	.00073	12.00000
GRADIENT	-.01795	-.00366	.00132	.00032	-.00018	.00004	1.00000

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01291	-.00340	.00632	-.00005	-.00018	.00036	8.00000
2.000	-.04944	-.00782	.00780	.00078	-.00035	.00087	10.00000
4.000	-.08281	-.01688	.01090	.00138	-.00082	.00036	12.00000
GRADIENT	-.01747	-.00337	.00115	.00036	-.00016	-.00000	1.00000

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00777	-.00166	.00455	-.00005	-.00029	.00016	8.00000
2.000	-.03449	-.00433	.00580	.00062	-.00052	.00069	10.00000
4.000	-.06201	-.01068	.00805	.00072	-.00097	.00036	12.00000
GRADIENT	-.01356	-.00226	.00088	.00034	-.00017	.00005	1.00000

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00190	-.00083	.00402	.00008	-.00023	.00009	8.00000
2.000	-.02209	-.00191	.00467	.00174	-.00048	.00064	10.00000
4.000	-.04379	-.00554	.00601	.00153	-.00085	-.00007	12.00000
GRADIENT	-.01047	-.00118	.00050	.00038	-.00016	-.00004	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (4NH010)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = 5.000
IORB   = 8.000   DX   = .000
DY   = .000   MACH   = .600

DZ = 50.000

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00241	-.00051	.00351	.00025	-.00017	.00015	8.00000
2.000	-.02204	-.00198	.00387	.00188	-.00047	.00046	10.00000
4.000	-.03844	-.00409	.00541	.00204	-.00086	-.00005	12.00000
GRADIENT	-.00901	-.00089	.00047	.00045	-.00017	-.00005	1.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (4NH011)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = -1.000
RUDDER = .000   ELEVON = 5.000
IORB   = 4.000   DX   = .000
DY   =   MACH   = .600

DZ = 3.500

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.03110	-.00668	.01256	.00115	.00011	.00094	4.00000
2.000	-.07298	-.01038	.01210	.00136	.00021	.00104	6.00000
4.000	-.11267	-.01480	.01181	.00097	.00015	.00094	8.00000
GRADIENT	-.02039	-.00203	-.00019	-.00005	.00001	-.00000	1.00000

DZ = 7.500

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02509	-.00641	.00992	.00109	.00018	.00088	4.00000
2.000	-.06533	-.00940	.00961	.00094	.00012	.00077	6.00000
4.000	-.10474	-.01352	.00934	.00145	.00027	.00073	8.00000
GRADIENT	-.01991	-.00178	-.00015	.00009	.00002	-.00004	1.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (4NH011)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000   STAB = -1.000
RUDDER = .000 ELEVON = 5.000
IORB = .000   DX = .000
DY = 4.000   MACH = .600

DZ = 10.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02427	-.00605	.00855	.00158	.00023	.00071	4.00000
2.000	-.06189	-.00874	.00846	.00101	.00015	.00073	6.00000
4.000	-.10168	-.01283	.00841	.00089	.00016	.00063	8.00000
GRADIENT	-.01935	-.00171	-.00003	-.00017	-.00002	-.00002	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02206	-.00498	.00687	.00167	.00027	.00053	4.00000
2.000	-.05725	-.00765	.00711	.00116	.00025	.00064	6.00000
4.000	-.09384	-.01142	.00775	.00075	.00021	.00059	8.00000
GRADIENT	-.01795	-.00161	.00022	-.00023	-.00001	.00002	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01858	-.00359	.00465	.00062	.00006	.00021	4.00000
2.000	-.04517	-.00479	.00537	.00019	-.00009	.00031	6.00000
4.000	-.07081	-.00755	.00645	.00044	.00007	.00028	8.00000
GRADIENT	-.01306	-.00099	.00045	-.00004	.00000	.00002	1.00000

DZ = 45.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01353	-.00214	.00336	.00017	-.00003	.00017	4.00000
2.000	-.03186	-.00325	.00450	.00016	-.00004	.00027	6.00000
4.000	-.04693	-.00481	.00565	.00100	.00008	.00025	8.00000
GRADIENT	-.00835	-.00067	.00057	.00021	.00003	.00002	1.00000

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01203	-.00158	.00294	.00207	-.00005	.00018	4.00000
2.000	-.02703	-.00294	.00427	.00042	.00001	.00028	6.00000
4.000	-.03915	-.00399	.00544	.00123	.00011	.00029	8.00000
GRADIENT	-.00678	-.00060	.00063	.00029	.00004	.00003	1.00000

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

(4NH013)

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
SREF = 474.8100 IN.	YMRP = .0000 IN. YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE = .0125	

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01616	-.00553	.01230	.00016	.00010	.00121	6.00000
2.000	-.05960	-.00916	.01296	.00115	.00026	.00117	8.00000
4.000	-.10887	-.01689	.01624	.00021	.00010	.00147	10.00000
GRADIENT	-.02318	-.00284	.00099	.00001	-.00000	.00007	1.00000

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01810	-.00528	.00929	.00014	.00015	.00112	6.00000
2.000	-.05844	-.00872	.01031	.00031	.00020	.00100	8.00000
4.000	-.10192	-.01562	.01339	-.00013	.00008	.00136	10.00000
GRADIENT	-.02095	-.00259	.00103	-.00007	-.00002	.00006	1.00000

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01727	-.00502	.00856	.00038	.00023	.00093	6.00000
2.000	-.05713	-.00858	.00974	-.00037	.00008	.00087	8.00000
4.000	-.09976	-.01519	.01266	-.00001	.00004	.00121	10.00000
GRADIENT	-.02062	-.00254	.00102	-.00010	-.00005	.00007	1.00000

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01726	-.00443	.00738	-.00026	.00001	.00079	6.00000
2.000	-.05484	-.00726	.00816	-.00062	.00001	.00081	8.00000
4.000	-.09540	-.01362	.01104	-.00020	-.00005	.00107	10.00000
GRADIENT	-.01954	-.00230	.00092	.00001	-.00001	.00007	1.00000

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01261	-.00297	.00574	-.00021	-.00010	.00029	6.00000
2.000	-.04090	-.00516	.00691	-.00058	-.00008	.00045	8.00000
4.000	-.07405	-.00959	.00307	.00081	.00002	.00076	10.00000
GRADIENT	-.01536	-.00165	.00083	.00026	.00002	.00012	1.00000

ARC 14-120(CA23B) 747/1 AT1 0251 (ORBITER DATA)   (4NH013)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 6.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01131	-.00214	.00511	-.00064	-.00008	.00052	6.00000
2.000	-.03079	-.00403	.00619	-.00016	-.00001	.00044	8.00000
4.000	-.05032	-.00666	.00748	.00033	-.00016	.00063	10.00000
GRADIENT	-.01175	-.00113	.00059	.00024	-.00002	.00003	1.00000

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01202	-.00148	.00444	-.00048	-.00006	.00052	6.00000
2.000	-.02751	-.00294	.00554	.00001	.00004	.00061	8.00000
4.000	-.05121	-.00522	.00681	.00053	-.00013	.00076	10.00000
GRADIENT	-.00990	-.00094	.00059	.00025	-.00002	.00006	1.00000

ARC 14-120(CA23B) 747/1 AT1 0251 (ORBITER DATA)   (4NH020)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 6.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00990	-.00368	.01292	-.00042	-.00011	.00055	4.00000
2.000	-.05960	-.00757	.01215	-.00032	.00003	.00065	6.00000
4.000	-.05517	-.01167	.01000	.00014	.00019	.00052	8.00000
GRADIENT	-.02132	-.00200	-.00073	.00014	.00008	-.00001	1.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NH020)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0125					

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
ICRB	=	.000	DX	=	.000
DY	=	4.000	MACH	=	.600

DZ = 7.500   RN/L =   3.32   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00074	-.00308	.01037	-.00054	-.00009	.00042	4.00000
2.000	-.05794	-.00693	.00941	-.00017	.00007	.00066	6.00000
4.000	-.09170	-.01100	.00797	.00048	.00020	.00037	8.00000
GRADIENT	-.02274	-.00198	-.00060	.00026	.00007	-.00001	1.00000

DZ = 10.000   RN/L =   3.32   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00048	-.00258	.00911	.00042	.00006	.00020	4.00000
2.000	-.05070	-.00634	.00880	.00043	.00013	.00040	6.00000
4.000	-.08958	-.01039	.00695	.00061	.00030	.00039	8.00000
GRADIENT	-.02251	-.00195	-.00054	.00005	.00006	.00005	1.00000

DZ = 15.000   RN/L =   3.30   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00138	-.00216	.00723	-.00014	-.00007	.00037	4.00000
2.000	-.04746	-.00530	.00705	.00026	.00006	.00047	6.00000
4.000	-.08175	-.00881	.00614	.00012	.00012	.00065	8.00000
GRADIENT	-.02050	-.00166	.00007	.00001	.00005	.00007	1.00000

DZ = 30.000   RN/L =   3.30   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00055	.00057	.00431	.00052	-.00012	-.00001	4.00000
2.000	-.05872	-.00301	.00493	.00124	.00013	.00039	6.00000
4.000	-.06489	-.00572	.00464	.00053	.00003	.00005	8.00000
GRADIENT	-.01608	-.00129	.00008	-.00003	.00002	.00002	1.00000

DZ = 45.000   RN/L =   3.30   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00219	-.00001	.00283	.00097	-.00015	.00015	4.00000
2.000	-.03506	-.00130	.00346	-.00117	.00010	.00032	6.00000
4.000	-.05180	-.00384	.00359	.00077	.00007	.00009	8.00000
GRADIENT	-.01240	-.00096	.00019	.00005	.00002	.00002	1.00000

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (4NH020)   (17 OCT 75   )

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE =	.0125		DY =	MACH = .600

DZ = 50.000   RN/L =   3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00255	.00006	.00238	-.00126	-.00018	.00023	4.00000
2.000	-.03194	-.00161	.00289	-.00117	-.00008	.00032	6.00000
4.000	-.04729	-.00326	.00328	-.00089	-.00010	.00012	8.00000
GRADIENT	-.01119	-.00083	.00023	.00009	.00002	-.00003	1.00000

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (4NH021)   (17 OCT 75   )

REFERENCE DATA

			PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = -1.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000	DX = .000
SCALE =	.0125		DY =	MACH = .600

DZ = 3.500   RN/L =   3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01390	-.00559	.01421	.00007	-.00003	.00054	4.00000
2.000	-.05894	-.00915	.01362	.00027	.00009	.00074	6.00000
4.000	-.09467	-.01290	.01180	.00011	.00011	.00049	8.00000
GRADIENT	-.02019	-.00183	-.00060	.00001	.00003	-.00001	1.00000

DZ = 7.500   RN/L =   3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01539	-.00517	.01133	.00060	.00008	.00032	4.00000
2.000	-.05956	-.00844	.01105	-.00005	.00009	.00072	6.00000
4.000	-.09067	-.01213	.00958	-.00010	.00008	.00038	8.00000
GRADIENT	-.01882	-.00174	-.00044	-.00018	-.00000	.00002	1.00000

ARC 14-120(CA23B) 747/1 ATI O2S1 (ORBITER DATA)   (4NH021) (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 4.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

DZ = 10.000   RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01598	-.00479	.00965	.00011	-.00003	.00028	4.00000
2.000	-.05370	-.00798	.00994	.00009	.00016	.00064	6.00000
4.000	-.08742	-.01149	.00872	-.00034	.00005	.00034	8.00000
GRADIENT	-.01786	-.00168	-.00023	-.00011	.00001	.00001	1.00000

DZ = 15.000   RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00925	-.00400	.00827	.00004	-.00009	-.00005	4.00000
2.000	-.04865	-.00678	.00852	-.00066	-.00009	.00048	6.00000
4.000	-.08049	-.00994	.00758	-.00021	.00005	.00034	8.00000
GRADIENT	-.01781	-.00149	-.00017	-.00006	.00004	.00010	1.00000

DZ = 30.000   RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00809	-.00221	.00520	-.00077	-.00014	.00018	4.00000
2.000	-.03787	-.00431	.00611	-.00059	-.00008	.00027	6.00000
4.000	-.06261	-.00648	.00579	-.00153	.00000	.00018	8.00000
GRADIENT	-.01363	-.00107	.00015	.00035	.00003	.00000	1.00000

DZ = 45.000   RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00693	-.00096	.00373	-.00174	-.00024	.00031	4.00000
2.000	-.02615	-.00260	.00498	-.00164	-.00019	.00030	6.00000
4.000	-.04818	-.00434	.00483	-.00153	.00002	.00033	8.00000
GRADIENT	-.01031	-.00085	.00027	.00005	.00005	.00000	1.00000

DZ = 50.000   RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00600	-.00056	.00337	-.00206	-.00027	.00032	4.00000
2.000	-.02205	-.00208	.00468	-.00198	-.00025	.00032	6.00000
4.000	-.04358	-.00370	.00455	-.00187	.00002	.00041	8.00000
GRADIENT	-.00940	-.00079	.00029	.00005	.00006	.00002	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

(4NH022)   (17 OCT 75)

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)

PARAMETRIC DATA

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100	IN.	YMRP = .0000 IN. YO
BREF =	936.6800	IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125		

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00124	-.00607	.01312	-.00096	-.00008	.00032	8.00000
2.000	-.03231	-.00857	.01364	.00001	.00024	.00057	10.00000
4.000	-.08264	-.02199	.02009	-.00035	-.00021	.00096	12.00000
GRADIENT	-.02035	-.00398	.00174	.00015	-.00003	.00016	1.00000

DZ = 7.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00080	-.00436	.01098	-.00057	-.00005	.00023	8.00000
2.000	-.03173	-.00729	.01200	.00010	.00016	.00033	10.00000
4.000	-.07518	-.01982	.01798	.00035	-.00027	.00065	12.00000
GRADIENT	-.01924	-.00386	.00175	.00023	-.00005	.00011	1.00000

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00298	-.00312	.00946	-.00007	.00002	.00016	8.00000
2.000	-.03160	-.00634	.01058	.00038	.00013	.00009	10.00000
4.000	-.07148	-.01818	.01637	.00079	-.00036	.00039	12.00000
GRADIENT	-.01661	-.00377	.00173	.00021	-.00010	.00006	1.00000

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00150	-.00298	.00788	-.00125	-.00019	.00010	8.00000
2.000	-.02896	-.00577	.01001	-.00056	-.00003	.00026	10.00000
4.000	-.06565	-.01675	.01524	.00160	-.00018	.00038	12.00000
GRADIENT	-.01629	-.00344	.00184	.00071	.00000	.00007	1.00000

DZ = 30.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00022	-.00162	.00603	-.00085	-.00013	.00003	8.00000
2.000	-.02218	-.00388	.00769	-.00051	-.00008	-.00017	10.00000
4.000	-.04730	-.01135	.01248	.00058	-.00035	.00024	12.00000
GRADIENT	-.01192	-.00243	.00161	.00036	-.00005	.00005	1.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (4NH022)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 8.000	DX = .030	
DY = .000	MACH = .600	

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00334	-.00090	.00428	-.00135	-.00016	.00004	8.00000
2.000	-.01757	-.00258	.00603	-.00116	-.00013	.00014	10.00000
4.000	-.03564	-.00851	.01021	.00018	-.00033	.00036	12.00000
GRADIENT	-.00808	-.00190	.00148	.00038	-.00004	.00008	1.00000

DZ = 50.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00467	-.00074	.00380	-.00113	-.00005	.00012	8.00000
2.000	-.01871	-.00226	.00546	-.00115	-.00012	.00018	10.00000
4.000	-.03632	-.00823	.00932	.00044	-.00024	.00030	12.00000
GRADIENT	-.00791	-.00187	.00138	.00039	-.00005	.00005	1.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)   (4NH023)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		
SCALE = .0125			

BETA = .000	STAB = 5.000	
RUDDER = .000	ELEVON = .000	
IORB = 6.000	DX = .000	
DY = .000	MACH = .600	

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00012	-.00474	.01262	-.00030	-.00000	.00096	6.00000
2.000	-.04316	-.00770	.01243	-.00023	-.00004	.00055	8.00000
4.000	-.08094	-.01276	.01548	.00031	.00022	.00038	10.00000
GRADIENT	-.02020	-.00201	.00071	.00015	.00006	-.00015	1.00000

ARC 14-120(CA23B)   747/1 ATI O2SI   (ORBITER DATA)   (4NHO23)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 7.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00121	-.00453	.01017	-.00043	-.00001	.00071	6.00000
2.000	-.04069	-.00746	.01039	-.00036	-.00001	.00045	8.00000
4.000	-.07808	-.01191	.01288	-.00028	-.00006	.00025	10.00000
GRADIENT	-.01922	-.00185	.00068	-.00004	-.00002	-.00012	1.00000

DZ = 10.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00301	-.00431	.00905	-.00067	-.00004	.00072	6.00000
2.000	-.04226	-.00714	.00931	-.00007	-.00002	.00026	8.00000
4.000	-.07382	-.01127	.01232	-.00005	-.00009	.00020	10.00000
GRADIENT	-.01770	-.00174	.00082	.00015	.00003	-.00013	1.00000

DZ = 15.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00405	-.00374	.00768	-.00061	.00003	.00074	6.00000
2.000	-.03440	-.00616	.00925	-.00071	-.00014	.00017	8.00000
4.000	-.07083	-.01012	.01106	-.00008	-.00007	.00019	10.00000
GRADIENT	-.01669	-.00159	.00085	.00013	.00001	-.00014	1.00000

DZ = 30.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00488	-.00254	.00531	-.00105	-.00005	.00055	6.00000
2.000	-.03401	-.00431	.00608	-.00074	-.00003	.00019	8.00000
4.000	-.05205	-.00625	.00895	-.00034	-.00004	.00010	10.00000
GRADIENT	-.01179	-.00093	.00091	.00018	.00000	-.00011	1.00000

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00580	-.00155	.00403	-.00164	-.00018	.00045	6.00000
2.000	-.02701	-.00282	.00483	-.00151	-.00019	.00026	8.00000
4.000	-.03988	-.00390	.00718	-.00093	-.00015	.00029	10.00000
GRADIENT	-.03852	-.00059	.00079	.00018	.00001	-.00004	1.00000

ARC 14-1201(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NH0231   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON =	.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000							
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00771	-.00113	.00376	-.00155	-.00015	.00060	6.00000
2.000	-.02544	-.00237	.00473	-.00123	-.00012	.00019	8.00000
4.000	-.03749	-.00310	.00571	.00116	-.00011	.00039	10.00000
GRADIENT	-.00745	-.00049	.00074	.00010	.00001	-.00005	1.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NH024)   (17 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO	BETA =	.000	STAB =	-1.000
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO	RUDDER =	.000	ELEVON =	.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO	IORB =	6.000	DX =	.000
SCALE =	.0125			DY =	.000	MACH =	.600

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500							
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00455	-.00580	.01270	-.00023	-.03002	.00066	6.00000
2.000	-.04391	-.00914	.01304	.00038	.00006	.00044	8.00000
4.000	-.08318	-.01436	.01580	.00002	.00010	.00026	10.00000
GRADIENT	-.01966	-.00214	.00077	.00005	.00003	-.00010	1.00000

RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500							
ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00370	-.00549	.01069	-.00015	.00001	.00063	6.00000
2.000	-.04355	-.00857	.01054	.00042	.00013	.00041	8.00000
4.000	-.07948	-.01316	.01355	.00043	.00017	.00017	10.00000
GRADIENT	-.01894	-.00192	.00072	.00015	.00004	-.00012	1.00000

ARC 14-120(CA23B)   747/1 AT1 O2S1 (ORBITER DATA)   (4NM024)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 10.000   RN/L =   3.33   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00409	-.00511	.00970	-.00085	-.00004	.00073	6.00000
2.000	-.04223	-.00824	.01015	.00016	.00008	.00037	8.00000
4.000	-.07895	-.01273	.01267	.00012	.00008	.00011	10.00000
GRADIENT	-.01872	-.00190	.00074	.00018	.00003	-.00016	1.00000

DZ = 15.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00741	-.00450	.00793	-.00057	-.00001	.00052	6.00000
2.000	-.04183	-.00756	.00853	-.00066	.00005	.00019	8.00000
4.000	-.07190	-.01141	.01141	.00024	.00014	-.00008	10.00000
GRADIENT	-.01612	-.00173	.00087	.00020	.00004	-.00015	1.00000

DZ = 30.000   RN/L =   3.34   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00391	-.00281	.00563	-.00088	-.00008	.00034	6.00000
2.000	-.03158	-.00592	.00654	-.00092	-.00015	.00000	8.00000
4.000	-.05311	-.00709	.00919	.00018	.00000	-.00008	10.00000
GRADIENT	-.01230	-.00107	.00089	.00027	.00002	-.00010	1.00000

DZ = 45.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00627	-.00167	.00412	-.00167	-.00019	.00037	6.00000
2.000	-.02550	-.00314	.00506	-.00119	-.00021	.00013	8.00000
4.000	-.04161	-.00461	.00695	-.00054	-.00003	.00006	10.00000
GRADIENT	-.00884	-.00074	.00071	.00028	.00004	-.00008	1.00000

DZ = 50.000   RN/L =   3.32   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00442	-.00135	.00382	-.00150	-.00022	.00021	6.00000
2.000	-.02308	-.00280	.00476	-.00098	-.00017	.00010	8.00000
4.000	-.03220	-.00417	.00635	-.00112	-.00010	.00013	10.00000
GRADIENT	-.00870	-.00070	.00063	.00010	.00003	-.00002	1.00000

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

(4NHO25)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	-1.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00409	-.00649	.01166	.00112	.00027	.00066	8.00000
2.000	-.03293	-.00925	.01319	.00041	.00021	.00063	10.00000
4.000	-.09379	-.02540	.01907	.00069	.00011	.00010	12.00000
GRADIENT	-.02242	-.00473	.00185	-.00011	-.00004	-.00014	1.00000

DZ = 7.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00389	-.00586	.01026	.00038	.00008	.00029	8.00000
2.000	-.03787	-.00904	.01152	.00003	.00011	.00036	10.00000
4.000	-.09575	-.02277	.01760	.00081	-.00008	.00024	12.00000
GRADIENT	-.02047	-.00423	.00183	.00011	-.00004	-.00001	1.00000

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00316	-.00549	.00922	.00034	-.00006	.00005	8.00000
2.000	-.04327	-.00903	.01002	-.00041	-.00003	.00025	10.00000
4.000	-.07980	-.02072	.01649	.00111	-.00022	.00037	12.00000
GRADIENT	-.01916	-.00381	.00182	.00036	-.00004	.00008	1.00000

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00537	-.00486	.00804	.00028	-.00001	-.00009	8.00000
2.000	-.03619	-.00804	.00969	.00030	-.00009	-.00020	10.00000
4.000	-.07486	-.01956	.01541	.00035	-.00031	.00027	12.00000
GRADIENT	-.01737	-.00368	.00184	.00002	-.00007	.00009	1.00000

DZ = 30.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00463	-.00305	.00561	-.00046	-.00008	-.00006	8.00000
2.000	-.03011	-.00529	.00737	-.00021	-.00003	.00015	10.00000
4.000	-.05592	-.01372	.01236	.00024	-.00030	.00046	12.00000
GRADIENT	-.01282	-.00267	.00169	.00018	-.00005	.00013	1.00000

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (4NH025)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = -1.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00564	-.00198	.00386	-.00070	-.00009	.00002	8.00000
2.000	-.02192	-.00349	.00562	-.00052	-.00005	.00003	10.00000
4.000	-.04026	.01004	.01005	-.00013	-.00032	.00055	12.00000
GRADIENT	-.00865	-.00202	.00155	.00014	-.00006	.00013	1.00000

RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00508	-.00158	.00328	-.00119	-.00010	.00027	8.00000
2.000	-.01849	-.00272	.00530	-.00067	-.00007	.00017	10.00000
4.000	-.03715	-.00927	.00953	.00021	-.00026	.00042	12.00000
GRADIENT	-.00802	-.00192	.00156	.00035	-.00004	.00004	1.00000

ARC 14-120(CA23B)   747/1 ATI O3S1 (ORBITER DATA)   (4NH027)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01151	-.00350	.01424	.00033	.00036	.00018	8.00000
2.000	-.04437	-.00693	.01458	.00332	.00123	.00022	10.00000
4.000	-.03157	-.02118	.02260	.00238	-.00009	.00049	12.00000
GRADIENT	-.02001	-.00442	.00209	.00051	-.00011	.00008	1.00000

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN.   YMRP = .0000 IN. YO
BREF = 936.6800 IN.   ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA   = .000   STAB   = 5.000
RUDDER = .000   ELEVON = .000
IORB   = 8.000   DX   = .000
DY   = .000   MACH   = .600

DZ = 7.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01254	-.00359	.01161	.00150	.00034	-.00005	8.00000
2.000	-.04592	-.00699	.01222	.00234	.00084	.00045	10.00000
4.000	-.08851	-.02041	.01871	.00282	.00010	.00034	12.00000
GRADIENT	-.01899	-.00421	.00177	.00033	-.00011	.00007	1.00000

DZ = 10.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01240	-.00346	.00938	.00228	.00042	-.00003	8.00000
2.000	-.04638	-.00684	.01024	.00129	.00062	.00072	10.00000
4.000	-.08702	-.01993	.01558	.00292	.00062	.00024	12.00000
GRADIENT	-.01866	-.00412	.00155	.00016	-.00010	.00007	1.00000

DZ = 15.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01634	-.00422	.00780	.00254	-.00002	-.00029	8.00000
2.000	-.04700	-.00739	.00925	.00226	.00007	.00026	10.00000
4.000	-.08152	-.01880	.01443	.00445	.00041	.00017	12.00000
GRADIENT	-.01630	-.00365	.00166	.00048	-.00010	.00011	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01080	-.00218	.00443	.00252	.00009	-.00050	8.00000
2.000	-.03596	-.00447	.00598	.00196	.00006	.00024	10.00000
4.000	-.06027	-.01355	.01147	.00362	-.00026	.00012	12.00000
GRADIENT	-.01237	-.00284	.00176	.00027	-.00009	.00018	1.00000

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00026	-.00129	.00511	.00162	-.00010	-.00072	8.00000
2.000	-.02078	-.00254	.00587	.00212	.00006	-.00018	10.00000
4.000	-.04148	-.00962	.01044	.00255	.00021	.00037	12.00000
GRADIENT	-.01044	-.00208	.00133	.00023	.00008	.00027	1.00000

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (4NH027) (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	ALPHAO	DCBL
.000	-.00294	-.00122	.00403	.00187	.00007	8.00000	-.00076
2.000	-.01945	-.00228	.00490	.00229	.00007	10.00000	-.00014
4.000	-.03623	-.00832	.01019	.00222	.00033	12.00000	.00052
GRADIENT	-.00832	-.00178	.00154	.00009	.00007	1.00000	.00032

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (4NH034) (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	ALPHAO	DCBL
.000	-.01786	-.00546	.01903	.00332	-.00007	6.00000	.00056
2.000	-.05470	-.00908	.01713	.00371	.00018	8.00000	.00016
4.000	-.10183	-.01492	.01916	.00367	.00044	10.00000	.00018
GRADIENT	-.02099	-.00236	.00003	.00009	.00013	1.00000	-.00010

DZ = 7.500   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	ALPHAO	DCBL
.000	-.01641	-.00498	.01416	.00332	-.00017	6.00000	.00018
2.000	-.05569	-.00832	.01250	.00314	-.00008	8.00000	.00002
4.000	-.09465	-.01389	.01484	.00294	.00025	10.00000	.00012
GRADIENT	-.01953	-.00223	.00017	-.00009	.00010	1.00000	-.00002

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ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (4NH034)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
1ORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000
RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01663	-.00514	.01181	.00282	-.00019	-.00002	6.00000
2.000	-.05337	-.00797	.01022	.00308	.00006	-.00002	8.00000
4.000	-.09114	-.01320	.01322	.00278	.00015	.00002	10.00000
GRADIENT	-.01863	-.00201	.00035	-.00001	.00008	.00001	1.00000

DZ = 15.000
RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01736	-.00449	.00851	.00243	-.00042	-.00011	6.00000
2.000	-.05103	-.00746	.00710	.00309	.00016	-.00018	8.00000
4.000	-.08662	-.01206	.01048	.00274	.00016	.00009	10.00000
GRADIENT	-.01731	-.00189	.00049	.00008	.00014	.00005	1.00000

DZ = 30.000
RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01202	-.00293	.00625	.00237	-.00038	-.00055	6.00000
2.000	-.03756	-.00503	.00652	.00307	.00047	-.00047	8.00000
4.000	-.06403	-.00813	.00875	.00228	.00025	.00011	10.00000
GRADIENT	-.01300	-.00130	.00063	.00002	.00003	.00011	1.00000

DZ = 45.000
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00847	-.00262	.00520	.00176	-.00033	-.00047	6.00000
2.000	-.02439	-.00376	.00655	.00196	.00028	-.00073	8.00000
4.000	-.04397	-.00545	.00784	.00195	.00026	.00003	10.00000
GRADIENT	-.00887	-.00071	.00066	.00005	.00002	.00012	1.00000

DZ = 50.000
RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00897	-.00227	.00489	.00178	-.00011	-.00015	6.00000
2.000	-.01220	-.00361	.00581	.00173	.00018	-.00071	8.00000
4.000	-.03858	-.00474	.00781	.00234	.00013	.00021	10.00000
GRADIENT	-.00740	-.00052	.00073	.00014	.00000	.00001	1.00000

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	935.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	4.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L =   3.29   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02033	-.00358	.01564	.00214	.00037	.00043	4.00000
2.000	-.06597	-.00737	.01506	.00184	.00028	.00059	6.00000
4.000	-.09756	-.01132	.01203	.00136	.00024	.00029	8.00000
GRADIENT	-.01931	-.00194	-.00090	-.00019	-.00003	-.00004	1.00000

DZ = 7.500   RN/L =   3.29   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01822	-.00313	.01038	.00156	.00048	.00039	4.00000
2.000	-.06073	-.00700	.01018	.00141	.00028	.00041	6.00000
4.000	-.09303	-.01043	.00709	.00087	.00022	.00020	8.00000
GRADIENT	-.01870	-.00183	-.00082	-.00017	-.00007	-.00005	1.00000

DZ = 10.000   RN/L =   3.29   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01384	-.00299	.00824	.00111	.00052	.00046	4.00000
2.000	-.05231	-.00647	.00847	.00120	.00032	.00022	6.00000
4.000	-.08542	-.00979	.00600	.00112	.00036	.00003	8.00000
GRADIENT	-.01790	-.00170	-.00056	.00030	-.00004	-.00011	1.00000

DZ = 15.000   RN/L =   3.29   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01238	-.00241	.00569	.00077	.00039	.00020	4.00000
2.000	-.04890	-.00548	.00626	.00056	-.00015	.00006	6.00000
4.000	-.08142	-.00859	.00371	.00096	.00030	-.00007	8.00000
GRADIENT	-.01726	-.00155	-.00050	.00005	-.00002	-.00003	1.00000

DZ = 30.000   RN/L =   3.29   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00989	-.00117	.00271	-.00011	.00025	.00026	4.00000
2.000	-.03666	-.00329	.00408	.00024	.00002	-.00017	6.00000
4.000	-.06077	-.00534	.00328	.00027	.00010	-.00017	8.00000
GRADIENT	-.01272	-.00104	-.00014	.00009	-.00004	-.00011	1.00000

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ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (4NH035)   17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = .000	ELEVON = .000		
IORB = 4.000	DX = .000		
DY = .000	MACH = .600		

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00098	-.00026	.00223	-.00039	.00005	.00020	4.00000
2.000	-.02753	-.00184	.00334	-.00049	-.00001	-.00011	6.00000
4.000	-.03984	-.00328	.00383	-.00062	-.00016	-.00051	8.00000
GRADIENT	-.01021	-.00075	.00040	-.00006	-.00005	-.00018	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00466	.00001	.00214	-.00051	-.00006	.00013	4.00000
2.000	-.02542	-.00141	.00314	-.00086	-.00011	-.00011	6.00000
4.000	-.03415	-.00270	.00379	-.00091	-.00026	-.00062	8.00000
GRADIENT	-.00970	-.00068	.00041	-.00010	-.00005	-.00019	1.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (4NH036)   (23 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000		
RUDDER = 10.000	ELEVON = .000		
IORB = 6.000	DX = .000		
DY = .000	MACH = .600		

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04879	-.00713	.01623	.00304	-.00008	.00006	8.00000
4.000	-.09803	-.01311	.01746	.00372	.00053	.00021	10.00000
GRADIENT	-.02462	-.00299	.00061	.00034	.00030	.00007	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04323	-.00672	.01155	.00377	.00026	-.00016	8.00000
4.000	-.08968	-.01204	.01288	.00349	.00045	-.00010	10.00000
GRADIENT	-.02322	-.00266	.00067	-.00014	.00010	-.00003	1.00000

ARC 14-120(CA23B)   747/1 AT1 O3S1 (ORBITER DATA)   (4NHO36)   (23 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000 STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = 10.000 ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000 DX = .000
SCALE = .0125		DY = .000 MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04496	-.00639	.00870	.00384	.00041	-.00010	8.00000
4.000	-.08657	.01124	.01085	.00295	.00038	.00005	10.00000
GRADIENT	-.02080	-.00243	.00108	-.00044	-.00002	.00008	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04311	-.00549	.00644	.00360	.00025	-.00008	8.00000
4.000	-.07959	-.00985	.00895	.00297	.00032	-.00004	10.00000
GRADIENT	-.01824	-.00218	.00126	-.00032	.00003	.00002	1.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02866	-.00374	.00510	.00271	.00007	-.00047	8.00000
4.000	-.05692	-.00583	.00686	.00270	.00011	-.00026	10.00000
GRADIENT	-.01413	-.00104	.00088	-.00001	.00002	.00011	1.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01920	-.00185	.00435	.00225	.00000	-.00056	8.00000
4.000	-.03935	-.00314	.00586	.00279	.00010	-.00018	10.00000
GRADIENT	-.01007	-.00065	.00076	.00027	.00005	.00019	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01903	-.00153	.00399	.00207	.00014	-.00050	8.00000
4.000	-.03099	-.00194	.00533	.00258	-.00009	-.00019	10.00000
GRADIENT	-.00648	-.00021	.00072	.00025	-.00011	.00016	1.00000

ARC 14-120(CA23B)   747/1 AT1 O351 (ORBITER DATA)   (4NH037)   (23 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	-1.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L =   3.32   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01248	-.00441	.01853	.00401	.00058	.00048	6.00000
2.000	-.05894	-.00880	.01711	.00299	.00017	.00017	8.00000
4.000	-.10367	-.01488	.01863	.00327	.00071	.00041	10.00000
GRADIENT	-.02280	-.00262	.00003	-.00019	.00003	-.00002	1.00000

DZ = 7.500   RN/L =   3.32   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01332	-.00456	.01268	.00311	.00017	.00018	6.00000
2.000	-.05422	-.00833	.01209	.00353	.00041	-.00011	8.00000
4.000	-.09400	-.01364	.01445	.00258	.00044	-.00003	10.00000
GRADIENT	-.02017	-.00227	.00044	-.00013	.00007	-.00005	1.00000

DZ = 10.000   RN/L =   3.31   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01025	-.00431	.01074	.00287	.00004	.00016	6.00000
2.000	-.05664	-.00818	.00957	.00230	.00022	.00001	8.00000
4.000	-.09193	-.01299	.01239	.00231	.00042	.00002	10.00000
GRADIENT	-.02042	-.00217	.00041	-.00014	.00010	-.00004	1.00000

DZ = 15.000   RN/L =   3.31   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00819	-.00384	.00794	.00239	.00002	-.00003	6.00000
2.000	-.05537	-.00729	.00637	.00300	.00026	-.00018	8.00000
4.000	-.08634	-.01187	.00967	.00186	.00013	.00010	10.00000
GRADIENT	-.02004	-.00201	.00043	-.00013	.00003	.00003	1.00000

DZ = 30.000   RN/L =   3.32   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00732	-.00253	.00480	.00175	-.00009	-.00032	6.00000
2.000	-.04208	-.00488	.00470	.00231	.00021	-.00034	8.00000
4.000	-.06407	-.00738	.00799	.00204	.00014	.00013	10.00000
GRADIENT	-.01419	-.00121	.00080	.00007	.00006	.00011	1.00000

ARC 1W-120(CA23B) 747/1 AT1 0351 (ORBITER DATA)   (4NH037)   (23 OCT 75)

REFERENCE DATA

SPEF	=	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP = .0000 IN. YO
BREF	=	936.6500 IN.	ZMRP = 375.0000 IN. ZO
SCALE	=	.0125	

PARAMETRIC DATA

BETA	=	.000	STAB =	-1.000
RUDDER	=	.000	ELEVON =	.000
IORB	=	6.000	DX =	.000
DY	=	.000	MACH =	.600

DZ = 45.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01336	-.00198	.00251	.00180	.00002	-.00036	6.00000
2.000	-.02421	-.00337	.00599	.00194	.00007	-.00068	8.00000
4.000	-.04167	-.00469	.00697	.00203	.00002	-.00006	10.00000
GRADIENT	-.00708	-.00068	.00111	.00036	-.00001	.00008	1.00000

DZ = 50.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCO	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00026	-.00160	.00313	.00160	.00014	-.00027	6.00000
2.000	-.02044	-.00284	.00545	.00153	.00002	-.00052	8.00000
4.000	-.03793	-.00378	.00641	.00158	.00009	-.00009	10.00000
GRADIENT	-.00942	-.00055	.00082	-.00000	-.00007	.00009	1.00000

ARC 1W-120(CA23B) 747/1 AT1 0351 (ORBITER DATA)   (4NH038)   (23 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP = .0000 IN. YO
BREF	=	936.6500 IN.	ZMRP = 375.0000 IN. ZO
SCALE	=	.0125	

PARAMETRIC DATA

BETA	=	.000	STAB =	5.000
RUDDER	=	.000	ELEVON =	5.000
IORB	=	6.000	DX =	.000
DY	=	.000	MACH =	.600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00191	-.00591	.01854	.00218	-.00009	.00019	6.00000
2.000	-.04490	-.01010	.01811	.00268	.00001	.00045	8.00000
4.000	-.09743	-.01677	.02049	.00352	-.00005	.00010	10.00000
GRADIENT	-.02483	-.00272	.00049	.00034	.00001	-.00002	1.00000

REFERENCE DATA

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)

(4NH038)   (23 OCT 75)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 7.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00514	-.00517	.01237	.00170	-.00005	.00004	6.00000
2.000	-.03850	-.00917	.01224	.00238	.00026	.00015	8.00000
4.000	-.09369	-.01503	.01475	.00204	.00007	.00023	10.00000
GRADIENT	-.02221	-.00246	.0060	.00031	.00003	-.00007	1.00000

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00526	-.00456	.00919	.00173	.00009	.00006	6.00000
2.000	-.03481	-.00822	.00988	.00231	.00029	.00007	8.00000
4.000	-.08228	-.01438	.01234	.00284	.00013	.00014	10.00000
GRADIENT	-.02188	-.00246	.00079	.00028	.00001	-.00002	1.00000

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00215	-.00413	.00616	.00208	.00013	.00019	6.00000
2.000	-.03194	-.00752	.00777	.00234	.00032	.00002	8.00000
4.000	-.07395	-.01269	.01053	.00298	.00026	.00018	10.00000
GRADIENT	-.01793	-.00214	.00109	.00022	.00003	.00000	1.00000

DZ = 30.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00582	-.00276	.00471	.00175	.00006	.00032	6.00000
2.000	-.02052	-.00504	.00569	.00179	.00014	.00001	8.00000
4.000	-.05927	-.00883	.00782	.00274	.00017	.00016	10.00000
GRADIENT	-.01627	-.00152	.00078	.00025	.00003	.00004	1.00000

DZ = 45.000   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00301	-.00175	.00343	.00154	-.00001	-.00024	6.00000
2.000	-.02008	-.00352	.00439	.00212	-.00026	-.00004	8.00000
4.000	-.04759	-.00648	.00636	.00225	-.00003	-.00014	10.00000
GRADIENT	-.01267	-.00118	.00073	.00018	-.00001	.00002	1.00000

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (4NH038)   (23 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	BETA =	.000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	RUDDER =	.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	IORB =	6.000	DX = .000
SCALE =	.0125				DY =	.000	MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	.00170	-.00164	.00321	.00112	-.00026	-.00044	6.00000
2.000	-.01478	-.00325	.00423	.00170	.00008	-.00012	8.00000
4.000	-.04308	-.00553	.00595	.00265	.00005	-.00015	10.00000
GRADIENT	-.01119	-.00097	.00069	.00038	.00008	.00007	1.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NH039)   (23 OCT 75)

REFERENCE DATA

					PARAMETRIC DATA		
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	BETA =	.000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	RUDDER =	10.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	IORB =	6.000	DX = .000
SCALE =	.0125				DY =	.000	MACH = .600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05438	-.01020	.01298	.00329	.00041	.00089	8.00000
4.000	-.10292	-.01741	.01666	.00155	.00009	.00084	10.00000
GRADIENT	-.02422	-.00360	.00184	-.00087	-.00016	-.00003	1.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04489	-.00895	.01019	.00290	.00043	.00069	8.00000
4.000	-.05559	-.01553	.01396	.00270	.00021	.00042	10.00000
GRADIENT	-.02255	-.00329	.00189	-.00010	-.00011	-.00013	1.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04423	-.00817	.00948	.00237	.00030	.00056	8.00000
4.000	-.09414	-.01527	.01243	.00208	.00020	.00061	10.00000
GRADIENT	-.02546	-.00355	.00148	-.00015	-.00005	.00003	1.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (4NH039)   (23 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = 10.000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE =	.0125		DY = .000	MACH = .600

DZ = 15.000   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03908	-.00747	.00823	.00173	.00023	.00056	8.00000
4.000	-.08631	-.01371	.01154	.00203	.00021	.00052	10.00000
GRADIENT	-.02362	-.00312	.00166	.00015	-.00001	-.00002	1.00000

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02994	-.00503	.00638	.00137	.00009	.00022	8.00000
4.000	-.05831	-.00851	.00986	.00180	.00007	.00022	10.00000
GRADIENT	-.01418	-.00174	.00174	.00021	-.00001	-.00000	1.00000

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01664	-.00362	.00575	.00203	.00009	.00000	8.00000
4.000	-.04666	-.00619	.00769	.00248	.00008	.00015	10.00000
GRADIENT	-.01501	-.00128	.00097	.00023	-.00001	-.00008	1.00000

DZ = 50.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01470	-.00341	.00535	.00210	.00011	.00006	8.00000
4.000	-.04220	-.00532	.00594	.00205	.00001	.00009	10.00000
GRADIENT	-.01375	-.00096	.00079	-.00003	-.00005	-.00007	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

                        ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NH040)   (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IOPB = 4.000	DX = .000
SCALE = .0125			DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.02039	-.00545	.01175	.00226	.00038	.00103	4.00000
2.000	-.06091	-.00930	.01167	.00210	.00030	.00107	6.00000
4.000	-.10117	-.01364	.01166	.00231	.00037	.00097	8.00000
GRADIENT	-.02020	-.00205	-.00002	.00001	-.00000	-.00001	1.00000

DZ = 7.500   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01524	-.00487	.00862	.00238	.00026	.00063	4.00000
2.000	-.05715	-.00931	.00842	.00168	.00022	.00085	6.00000
4.000	-.09699	-.01268	.00876	.00154	.00027	.00087	8.00000
GRADIENT	-.02041	-.00195	.00003	-.00021	-.00000	.00006	1.00000

DZ = 10.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01397	-.00462	.00741	.00291	.00037	.00055	4.00000
2.000	-.05200	-.00778	.00793	.00190	.00027	.00072	6.00000
4.000	-.09185	-.01194	.00812	.00154	.00027	.00070	8.00000
GRADIENT	-.01947	-.00183	.00018	-.00034	-.00003	.00004	1.00000

DZ = 15.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01824	-.00414	.00522	.00154	.00017	.00028	4.00000
2.000	-.04705	-.00684	.00673	.00109	.00008	.00364	6.00000
4.000	-.08350	-.01053	.00734	.00058	.00010	.00076	8.00000
GRADIENT	-.01554	-.00160	.00053	-.00024	-.00002	.00012	1.00000

DZ = 30.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.01359	-.00269	.00330	.00121	.00005	-.00010	4.00000
2.000	-.03325	-.00439	.00533	.00138	.00008	.00013	6.00000
4.000	-.06509	-.00799	.00455	.00044	.00008	.00046	8.00000
GRADIENT	-.01290	-.00110	.00056	.00019	-.00001	.00014	1.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NH040) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 4.000	DX = .000
SCALE = .0125			DY =	MACH = .600

DZ = 45.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00796	-.00159	.00261	.00108	.00006	-.00008	4.00000
2.000	-.02967	-.00287	.00416	.00104	.00001	.00016	6.00000
4.000	-.04340	-.00458	.00528	.00132	.00011	.00027	8.00000
GRADIENT	-.00886	-.00075	.00067	.00006	.00001	.00009	1.00000

DZ = 50.000   RN/L = 3.32   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
.000	-.00684	-.00131	.00238	.00077	.00002	-.00005	4.00000
2.000	-.02764	-.00237	.00369	.00069	.00005	.00024	6.00000
4.000	-.03577	-.00375	.00527	.00154	.00009	.00026	8.00000
GRADIENT	-.00723	-.00061	.00072	.00019	.00002	.00008	1.00000

ARC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NHX10) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 8.000	DX = .000
SCALE = .0125			DY =	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05575	-.01037	.01199	.00150	-.00035	.00063	10.00000
4.000	-.09646	-.02320	.01598	.00199	-.00048	.00024	12.00000
GRADIENT	-.02035	-.00642	.00200	.00024	-.00007	-.00019	1.00000

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05298	-.00942	.01037	.00140	-.00027	.00090	10.00000
4.000	-.09099	-.02050	.01401	.00191	-.00062	.00047	12.00000
GRADIENT	-.01900	-.00559	.00182	.00025	-.00017	-.00022	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NHX10)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05056	-.03875	.00920	.00146	-.00016	.00119	10.00000
4.000	-.08665	-.01867	.01262	.00197	-.00071	.00073	12.00000
GRADIENT	-.01800	-.00496	.00171	.00025	-.00028	-.00023	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04969	-.00791	.00785	.00075	-.00035	.00087	10.00000
4.000	-.08298	-.01697	.01092	.00135	-.00082	.00037	12.00000
GRADIENT	-.01665	-.00453	.00153	.00030	-.00024	-.00025	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03451	-.00435	.00581	.00091	-.00052	.00069	10.00000
4.000	-.06216	-.01078	.00807	.00073	-.00096	.00037	12.00000
GRADIENT	-.01382	-.00322	.00113	-.00009	-.00022	-.00016	1.00000

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02022	-.00194	.00467	.00172	-.00048	.00064	10.00000
4.000	-.04393	-.00561	.00601	.00159	-.00085	-.00006	12.00000
GRADIENT	-.01185	-.00183	.00067	-.00006	-.00018	-.00035	1.00000

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02212	-.00202	.00389	.00187	-.00047	.00045	10.00000
4.000	-.03854	-.00415	.00542	.00202	-.00086	.00004	12.00000
GRADIENT	-.00821	-.00106	.00076	.00008	-.00020	-.00025	1.00000

ARC 14-120(CA23B)　747/1 AT1 O2S1 (ORBITER DATA)　　(4NHX13)　(17 OCT 75)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN. XO
LREF	=	474.8100	IN.	YMRP	=	.0000	IN. YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0125					

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500　　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05901	-.00887	.01275	.00122	.00024	.00114	8.00000
4.000	-.10852	-.01668	.01608	.00027	.00009	.00146	10.00000
GRADIENT	-.02476	-.00391	.00167	-.00047	-.00008	.00016	1.00000

DZ = 7.500　　RN/L = 3.34　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05802	-.00852	.01020	.00037	.00019	.00098	8.00000
4.000	-.10152	-.01536	.01324	.00005	.00007	.00136	10.00000
GRADIENT	-.02175	-.00342	.00152	-.00021	-.00006	.00019	1.00000

DZ = 10.000　　RN/L = 3.33　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05668	-.00839	.00963	-.00029	.00008	.00087	8.00000
4.000	-.09935	-.01493	.01250	.00005	.00003	.00122	10.00000
GRADIENT	-.02133	-.00327	.00144	.00017	-.00002	.00017	1.00000

DZ = 15.000　　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05432	-.00707	.00807	-.00055	.00001	.00080	8.00000
4.000	-.09492	-.01339	.01094	-.00015	-.00006	.00107	10.00000
GRADIENT	-.02030	-.00316	.00144	.00020	-.00003	.00014	1.00000

DZ = 30.000　　RN/L = 3.35　GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04048	-.00498	.00681	-.00053	-.00009	.00045	8.00000
4.000	-.07350	-.00934	.00895	.00080	-.00003	.00076	10.00000
GRADIENT	-.01656	-.00218	.00107	.00067	-.00003	.00016	1.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NHX131)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 45.000   RN/L =   3.35   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03005	-.00373	.00603	-.00007	-.00303	.00044	8.00000
4.000	-.05745	-.00628	.00734	.00037	-.00017	.00062	10.00000
GRADIENT	-.01370	-.00127	.01065	.00022	-.00007	.00009	1.00000

DZ = 50.000   RN/L =   3.35   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02713	-.00280	.00543	.00001	.00003	.00060	8.00000
4.000	-.05048	-.00491	.00667	.00054	-.00014	.00075	10.00000
GRADIENT	-.01168	-.00105	.00062	.00026	-.00009	.00007	1.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NHX141)   (17 OCT 75)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = 10.000
SCALE = .0125		DY = .000	MACH = .600

DZ =   3.500   RN/L =   3.34   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05091	-.00899	.00940	.00030	.00039	.00139	8.00000
4.000	-.11599	-.01682	.0105	-.00053	.00022	.00154	10.00000
GRADIENT	-.02754	-.00391	.00083	-.00042	-.00008	.00007	1.00000

DZ =   7.500   RN/L =   3.34   GRADIENT INTERVAL =   -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05585	-.00842	.00759	-.00000	.00027	.00108	8.00000
4.000	-.10527	-.01539	.00848	-.00040	.00015	.00141	10.00000
GRADIENT	-.02471	-.00349	.00045	-.00020	-.00006	.00016	1.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (4NHX14)   (17 OCT 75)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = 10.000
SCALE = .0125		DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05635	-.00821	.00638	-.00121	.00012	.00093	8.00000
4.000	-.10389	-.01481	.00761	-.00099	.00010	.00136	10.00000
GRADIENT	-.02377	-.00330	.00061	.00011	-.00001	.00021	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05353	-.00703	.00528	-.00120	.00013	.00103	8.00000
4.000	-.09590	-.01287	.00655	-.00067	.00007	.00123	10.00000
GRADIENT	-.02118	-.00292	.00064	.00026	-.00003	.00010	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03860	-.00494	.00452	-.00123	.00001	.00059	8.00000
4.000	-.07191	-.00888	.00574	-.00072	-.00010	.00078	10.00000
GRADIENT	-.01666	-.00197	.00061	.00025	-.00006	.00010	1.00000

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02952	-.00391	.00415	-.00025	.00018	.00061	8.00000
4.000	-.05116	-.00656	.00505	-.00055	-.00019	.00065	10.00000
GRADIENT	-.01082	-.00082	.00045	-.00013	-.00019	.00002	1.00000

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02251	-.00320	.00458	-.00152	-.00011	.00059	8.00000
4.000	-.04945	-.00522	.00495	.00054	-.00019	.00071	10.00000
GRADIENT	-.01347	-.00101	.00019	.00049	-.00004	.00006	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI 025I (ORBITER DATA)   (4NHX15)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 8.000	DX = 10.000
DY = .000	MACH = .600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06896	-.01387	.00831	-.00080	.00015	.00137	10.00000
4.000	-.11503	-.02678	.01207	.00149	-.00003	.00122	12.00000
GRADIENT	-.02304	-.00646	.00188	.00115	-.00009	-.00007	1.00000

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06158	-.01118	.00772	.00003	.00007	.00138	10.00000
4.000	-.10429	-.02369	.01082	.00131	-.00024	.00100	12.00000
GRADIENT	-.02136	-.00625	.00155	.00064	-.00015	-.00019	1.00000

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05639	-.00946	.00721	.00064	-.00004	.00139	10.00000
4.000	-.09661	-.02157	.00998	.00132	-.00035	.00078	12.00000
GRADIENT	-.02011	-.00506	.00139	.00034	-.00019	-.00030	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05254	-.00828	.00609	.00025	-.00013	.00115	10.00000
4.000	-.08731	-.01873	.00353	.00067	-.00067	.00091	12.00000
GRADIENT	-.01739	-.00522	.00122	.00021	-.00027	-.00012	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03332	-.00418	.00472	.00079	-.00024	.00096	10.00000
4.000	-.06374	-.01162	.00643	.00105	-.00075	.00076	12.00000
GRADIENT	-.01521	-.00372	.00086	.00013	-.00025	-.00010	1.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (4NHX15)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000		STAB = 5.000	
RUDDER = .000		ELEVON = 5.000	
IORB = 8.000		DX = 10.000	
DY = .000		MACH = .600	

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02608	-.00303	.00389	.00061	-.00043	.00049	10.00000
4.000	-.04649	-.00679	.00515	.00190	-.00065	.00034	12.00000
GRADIENT	-.01020	-.00188	.00063	.00064	-.00011	-.00008	1.00000

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02004	-.00208	.00380	.00098	-.00041	.00063	10.00000
4.000	-.03890	-.00513	.00486	.00159	-.00081	.00044	12.00000
GRADIENT	-.00943	-.00153	.00053	.00031	-.00020	-.00009	1.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA)   (4NHX16)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	
PREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	
SCALE = .0125		

PARAMETRIC DATA

BETA = .000		STAB = 5.000	
RUDDER = .000		ELEVON = 5.000	
IORB = 6.000		DX = 20.000	
DY = .000		MACH = .600	

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06113	-.00634	.00471	.00114	.00032	.00115	8.00000
4.000	-.11479	-.01393	.00516	.00087	.00020	.00141	10.00000
GRADIENT	-.02683	-.00379	.00023	-.00013	-.00006	.00013	1.00000

RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05638	-.00622	.00229	.00129	.00038	.00093	8.00000
4.000	-.10634	-.01320	.00261	.00119	.00026	.00117	10.00000
GRADIENT	-.02498	-.00349	.00016	-.00005	-.00006	.00012	1.00000

ARC 14-120(CA23B)   747/1 ATI O2S1 (ORBITER DATA)   (4NHX16)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IOMB =	6.000	DX =	20.000
DY =	.000	MACH =	.600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05640	-.00624	.00158	.00052	.00022	.00085	8.00000
4.000	-.10500	-.01282	.00197	.00091	.00114	.00114	10.00000
GRADIENT	-.02430	-.00329	.00020	.00020	-.00004	.00014	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05120	-.00599	.00137	.00033	.00016	.00075	8.00000
4.000	-.09558	-.01199	.00191	.00102	.00004	.00093	10.00000
GRADIENT	-.02224	-.00300	.00027	.00034	-.00006	.00009	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03825	-.00459	.00190	.00039	.00003	.00028	8.00000
4.000	-.07393	-.00841	.00249	.00070	-.00003	.00078	10.00000
GRADIENT	-.01784	-.00191	.00029	.00015	-.00003	.00025	1.00000

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02714	-.00346	.00259	.00053	.00003	.00041	8.00000
4.000	-.05439	-.00564	.00302	.00123	-.00015	.00038	10.00000
GRADIENT	-.01351	-.00109	.00022	.00035	-.00009	-.00002	1.00000

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02525	-.00300	.00266	.00078	.00003	.00043	8.00000
4.000	-.05094	-.00494	.00298	.00145	-.00016	.00037	10.00000
GRADIENT	-.01312	-.00097	.00016	.00033	-.00013	-.00003	1.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (4NHX17)   (17 OCT 75

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.5800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.07194	-.01240	.00609	-.00009	.00004	.00072	10.00000
4.000	-.11485	-.02458	.00788	.00325	-.00012	.00103	12.00000
GRADIENT	-.02145	-.00609	.00090	.00167	-.00008	.00015	1.00000

DZ = 7.500   RN/L = 3.34   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06455	-.00980	.00492	.00109	-.00000	.00092	10.00000
4.000	-.10796	-.02295	.00649	.00238	-.00033	.00079	12.00000
GRADIENT	-.02171	-.00657	.00079	.00064	-.00016	-.00006	1.00000

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05907	-.00811	.00395	.00186	.00000	.00109	10.00000
4.000	-.10245	-.02173	.00552	.00170	-.00048	.00060	12.00000
GRADIENT	-.02169	-.00681	.00078	-.00008	-.00024	-.00024	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05730	-.00772	.00293	.00212	-.00009	.00072	10.00000
4.000	-.09769	-.02025	.00436	.00168	-.00059	.00048	12.00000
GRADIENT	-.02020	-.00627	.00072	-.00022	-.00025	-.00012	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04240	-.00486	.00233	.00215	-.00015	.00070	10.00000
4.000	-.07051	-.01311	.00381	.00276	-.00080	.00026	12.00000
GRADIENT	-.01406	-.00413	.00074	.00030	-.00033	-.00022	1.00000

APC 14-120(CA23B) 747/1 ATI 02S1 (ORBITER DATA)   (4NHX17)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	5.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

	ALPHAO	DCL	DCD	DCY	DCLM	DCYN	DCBL
ALPHAC 2.000	10.00000	-.02781	-.00341	.00145	.00257	-.00049	.00054
4.000	12.00000	-.05007	-.00754	.00261	.00347	-.00082	-.00009
GRADIENT	1.00000	-.01113	-.00207	.00058	.00045	-.00017	-.00032

RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

	ALPHAO	DCL	DCD	DCY	DCLM	DCYN	DCBL
ALPHAC 2.000	10.00000	-.02792	-.00301	.00184	.00242	-.00034	.00043
4.000	12.00000	-.04699	-.00657	.00311	.00323	-.00078	-.00008
GRADIENT	1.00000	-.00954	-.00173	.00064	.00040	-.00022	-.00026

ARC 14-120(CA23B) 747/1 ATI 03S1 (ORBITER DATA)   (4NHX27)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

	ALPHAO	DCL	DCD	DCY	DCLM	DCYN	DCBL
ALPHAC 2.000	10.00000	-.04486	-.00721	.00335	.01470	.00121	.00023
4.000	12.00000	-.09167	-.02110	.00239	.02238	-.00008	.00047
GRADIENT	1.00000	-.02340	-.00694	-.00048	.00384	-.00065	.00012

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

	ALPHAO	DCL	DCD	DCY	DCLM	DCYN	DCBL
ALPHAC 2.000	10.00000	-.04611	-.00713	.00237	.01227	.00083	.00045
4.000	12.00000	-.08875	-.02045	.00283	.01866	-.00009	.00033
GRADIENT	1.00000	-.02122	-.00666	.00023	.00319	-.00046	.00006

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

(4NHX27)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04655	-.00692	.01027	.00132	.00061	.00072	10.00000
4.000	-.08741	-.02011	.01570	.00294	.00002	.00023	12.00000
GRADIENT	-.02043	-.00659	.00272	.00081	-.00030	-.00025	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04708	-.00743	.00924	.00227	.00007	.00027	10.00000
4.000	-.08172	-.01886	.01440	.00441	-.00041	.00017	12.00000
GRADIENT	-.01732	-.00571	.00258	.00107	-.00024	-.00005	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03599	-.00454	.00603	.00198	.00006	.00024	10.00000
4.000	-.06044	-.01362	.01148	.00361	-.00026	.00011	12.00000
GRADIENT	-.01222	-.00454	.00272	.00082	-.00016	-.00006	1.00000

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02090	-.00261	.00590	.00214	.00006	.00018	10.00000
4.000	-.04167	-.00970	.01047	.00255	.00021	.00037	12.00000
GRADIENT	-.01039	-.00355	.00228	.00020	.00007	.00027	1.00000

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01949	-.00236	.00495	.00231	.00007	-.00014	10.00000
4.000	-.03551	-.00843	.01024	.00222	.00033	.00052	12.00000
GRADIENT	-.00851	-.00303	.00264	-.00004	.00013	.00033	1.00000

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)   (4NHX28)   (17 OCT 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LPEF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IOPB =	6.000	DX =	10.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05591	-.00731	.00917	.00275	.00062	.00045	8.00000
4.000	-.10299	-.01249	.00935	.00283	.00103	.00051	10.00000
GRADIENT	-.02354	-.00259	.00009	.00004	.00021	.00003	1.00000

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05119	-.00679	.00524	.00261	.00059	.00018	8.00000
4.000	-.09406	-.01194	.00584	.00240	.00084	.00033	10.00000
GRADIENT	-.02144	-.00257	.00030	-.00011	.00012	.00008	1.00000

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04934	-.00672	.00360	.00194	.00037	.00011	8.00000
4.000	-.09185	-.01149	.00454	.00192	.00065	.00038	10.00000
GRADIENT	-.02126	-.00238	.00047	-.00001	.00014	.00014	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04749	-.00613	.00181	.00193	.00039	-.00006	8.00000
4.000	-.08837	-.01039	.00246	.00153	.00055	.00022	10.00000
GRADIENT	-.02044	-.00213	.00052	-.00020	.00008	.00014	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02913	-.00447	.00161	.00150	.00024	-.00020	8.00000
4.000	-.06512	-.00658	.00364	.00170	.00030	.00005	10.00000
GRADIENT	-.01300	-.00105	.00101	.00010	.00003	.00012	1.00000

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (4NHX28)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	6.000	DX = 10.000
DY =	.000	MACH = .600

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	CCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02768	-.00311	.00276	.00082	.00008	-.00037	8.00000
4.000	-.04800	-.06420	.00236	.00153	.00025	.00026	10.00000
GRADIENT	-.01016	-.00054	.00030	.00036	.00009	.00032	1.00000

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01967	-.00272	.00351	.00081	.00013	-.00052	8.00000
4.000	-.03884	-.00341	.00374	.00152	.00018	.00009	10.00000
GRADIENT	-.00958	-.00034	.00012	.00036	.00003	.00031	1.00000

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (4NHX29)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

BETA =	.000	STAB = 5.000
RUDDER =	.000	ELEVON = .000
IORB =	8.000	DX = 10.000
DY =	.000	MACH = .600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06068	-.01152	.01200	.00231	.00094	.00043	10.00000
4.000	-.11040	-.02446	.01766	.00358	.00066	-.00044	12.00000
GRADIENT	-.02486	-.00647	.00283	.00069	-.00014	-.00044	1.00000

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05537	-.00889	.00902	.00218	.00073	.00057	10.00000
4.000	-.10244	-.02287	.01457	.00323	.00031	-.00022	12.00000
GRADIENT	-.02353	-.00699	.00278	.00053	-.00021	-.00039	1.00000

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

(4NHX29)   (17 OCT 75   )

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	RUDDER = .000	ELEVON = .000
BREF = 936.5800 IN.	ZMRP = 375.0000 IN.	ZO	IORB = 8.000	DX = 10.000
SCALE = .0125			DY = .000	MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05129	-.00718	.00681	.00211	.00062	.00064	10.00000
4.000	-.09616	-.02165	.01232	.00296	.00010	-.00005	12.00000
GRADIENT	-.02244	-.00724	.00275	.00043	-.00026	-.00034	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04775	-.00645	.00494	.00172	.00034	.00050	10.00000
4.000	-.09121	-.02068	.01025	.00246	-.00024	.00002	12.00000
GRADIENT	-.02173	-.00711	.00266	.00037	-.00029	-.00024	1.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03396	-.00411	.00412	.00146	.00012	.00026	10.00000
4.000	-.06420	-.01407	.00844	.00286	-.00027	.00018	12.00000
GRADIENT	-.01512	-.00498	.00216	.00070	-.00019	-.00004	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02266	-.00230	.00409	.00159	.00012	-.00005	10.00000
4.000	-.04496	-.00949	.00819	.00210	.00023	.00052	12.00000
GRADIENT	-.01115	-.00360	.00225	.00026	.00005	.00029	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01786	-.00186	.00394	.00153	.00026	.00033	10.00000
4.000	-.04044	-.00843	.00861	.00181	.00058	.00058	12.00000
GRADIENT	-.01129	-.00429	.00253	.00014	.00016	.00013	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 ATI O3S1 (ORBITER DATA)   (4NHX301) (17 OC 5)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP =	.0000 IN. YO
BREF =	936.6800 IN.	ZMRP =	375.0000 IN. ZO
SCALE =	.0125		

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	8.000	DX =	20.000
DY =	.000	MACH =	.600

DZ = 3.500   RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.06107	-.01003	.00649	.00209	.00124	.00056	10.00000
4.000	-.11544	-.02468	.00954	.00230	.00079	.00052	12.00000
GRADIENT	-.02719	-.00733	.00153	.00011	-.00022	-.00002	1.00000

DZ = 7.500   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05525	-.00806	.00385	.00198	.00098	.00055	10.00000
4.000	-.10763	-.02347	.00811	.00218	.00053	.00011	12.00000
GRADIENT	-.02619	-.00771	.00213	.00010	-.00023	-.00022	1.00000

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04990	-.00662	.00222	.00197	.00080	.00048	10.00000
4.000	-.10169	-.02254	.00709	.00209	.00033	.00020	12.00000
GRADIENT	-.02589	-.00796	.00244	.00006	-.00023	-.00034	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05118	-.00659	.00070	.00155	.00065	.00061	10.00000
4.000	-.09612	-.02157	.00518	.00207	.00023	.00033	12.00000
GRADIENT	-.02247	-.00749	.00274	.00026	-.00021	-.00047	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03860	-.00392	.00161	.00127	.00030	.00030	10.00000
4.000	-.06760	-.01511	.00606	.00241	.00002	.00022	12.00000
GRADIENT	-.01450	-.00559	.00223	.00057	-.00016	-.00004	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI 03SI (ORBITER DATA)   (4NHX30)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02111	-.00246	.00289	.00105	.00007	.00014	10.00000
4.000	-.05526	-.01212	.00722	.00170	.00032	.00036	12.00000
GRADIENT	-.01708	-.00483	.00216	.00032	.00013	.00011	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01937	-.00211	.00321	.00135	.00023	.00010	10.00000
4.000	-.04096	-.00947	.00745	.00168	.00044	.00049	12.00000
GRADIENT	-.01080	-.00368	.00212	.00016	.00010	.00019	1.00000

ARC 14-120(CA23B)   747/1 ATI 03SI (ORBITER DATA)   (4NHX31)   (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	20.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05396	-.00606	.00042	.00165	.00071	.00058	8.00000
4.000	-.09749	-.01129	-.00024	.00153	.00093	.00053	10.00000
GRADIENT	-.02176	-.00262	-.00033	-.00006	.00011	-.00002	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04975	-.00550	-.00109	.00162	.00060	.00043	8.00000
4.000	-.09256	-.01055	-.00092	.00149	.00085	.00044	10.00000
GRADIENT	-.02140	-.00252	.00009	-.00007	.00012	.00000	1.00000

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B) 747/1 AT1 03S1 (ORBITER DATA)

(4NHX31) (17 OCT 5)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO		BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO		RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO		IORB = 6.000	DX = 20.000
SCALE = .0125			DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04600	-.00538	-.00197	.00160	.00052	.00026	8.00000
4.000	-.08892	-.01004	-.00143	.00143	.00079	.00041	10.00000
GRADIENT	-.02146	-.00233	.00027	-.00008	.00014	.00007	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04572	-.00493	-.00250	.00151	.00054	.00033	8.00000
4.000	-.08462	-.00946	-.00169	.00150	.00078	.00024	10.00000
GRADIENT	-.01945	-.00226	.00040	-.00001	.00012	-.00005	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03508	-.00335	-.00038	.00148	.00029	-.00013	8.00000
4.000	-.06537	-.00663	.00076	.00058	.00024	.00044	10.00000
GRADIENT	-.01514	-.00164	.00057	-.00045	-.00003	.00028	1.00000

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02315	-.00271	.00164	.00054	.00019	-.00019	8.00000
4.000	-.04623	-.00434	.00635	.00125	.00026	.00005	10.00000
GRADIENT	-.01154	-.00082	.00036	.00036	.00004	.00012	1.00000

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01931	-.00248	.00220	.00017	.00016	-.00032	8.00000
4.000	-.04289	-.00386	.00255	.00092	.00017	.00005	10.00000
GRADIENT	-.01179	-.00069	.00018	.00037	.00000	.00018	1.00000

DATE 23 MAR 76   TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 AT1 O3S1   (ORBITER DATA)   (4NHX34)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN.	XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN.	YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN.	ZO
SCALE	=	.0125				

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	6.000	DX	=	.000
DY	=	.000	MACH	=	.600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05438	-.00882	.01703	.00366	.00019	.00015	8.00000
4.000	-.10108	-.01458	.01886	.00360	.00043	.00021	10.00000
GRADIENT	-.02335	-.00288	.00092	-.00003	.00012	.00003	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05159	-.00815	.01242	.00310	-.00007	.00003	8.00000
4.000	-.09388	-.01351	.01451	.00289	.00025	.00014	10.00000
GRADIENT	-.02114	-.00268	.00105	-.00010	.00016	.00006	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 10.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05308	-.00780	.01014	.00303	-.00005	-.00001	8.00000
4.000	-.09065	-.01294	.01295	.00275	.00016	.00004	10.00000
GRADIENT	-.01878	-.00257	.00141	-.00014	.00010	.00003	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 15.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05076	-.00726	.00703	.00303	-.00016	-.00018	8.00000
4.000	-.08602	-.01174	.01020	.00273	.00016	.00011	10.00000
GRADIENT	-.01763	-.00224	.00159	-.00015	.00016	.00014	1.00000

RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 30.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03742	-.00490	.00641	.00302	-.00000	-.00046	8.00000
4.000	-.06345	-.00777	.00847	.00226	-.00024	-.00008	10.00000
GRADIENT	-.01302	-.00144	.00103	-.00038	-.00012	.00019	1.00000

(4NHX34) (17 OCT 75)

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 45.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02424	-.00359	.00639	.00190	-.00026	-.00072	8.00000
4.000	-.04352	-.00512	.00754	-.00025	-.00025	-.00004	10.00000
GRADIENT	-.00964	-.00076	.00058	.00002	.00001	.00038	1.00000

DZ = 50.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01907	-.00341	.00662	.00166	-.00018	-.00071	8.00000
4.000	-.03799	-.00437	.00749	.00228	-.00013	-.00019	10.00000
GRADIENT	-.00946	-.00048	.00044	.00031	-.00003	.00026	1.00000

(4NHY10) (17 OCT 75)

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = 5.000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = .000	MACH = .600

DZ = 3.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05596	-.01008	.01194	.00158	-.00025	.00085	10.00000
4.000	-.09685	-.02327	.01589	.00229	-.00042	.00065	12.00000
GRADIENT	-.02045	-.00659	.00198	.00036	-.00008	-.00010	1.00000

DZ = 7.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05299	-.00939	.01037	.00142	-.00026	.00093	10.00000
4.000	-.09096	-.02058	.01401	.00196	-.00061	.00053	12.00000
GRADIENT	-.01898	-.00559	.00182	.00027	-.00018	-.00020	1.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA)   (4NHY10)   (17 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO
SCALE = .0125		

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
1ORB = 8.000	DX = .000
DY = .000	MACH = .600

DZ = 10.000   RN/L = 3.33   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05042	-.00875	.00924	.00143	-.00020	.00109	10.00000
4.000	-.08651	-.01869	.01266	.00189	-.00073	.00061	12.00000
GRADIENT	-.01805	-.00497	.00171	.00023	-.00027	-.00024	1.00000

DZ = 15.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04964	-.00790	.00788	.00073	-.00036	.00082	10.00000
4.000	-.08292	-.01698	.01097	.00128	-.00084	.00025	12.00000
GRADIENT	-.01664	-.00454	.00155	.00028	-.00024	-.00028	1.00000

DZ = 30.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03469	-.00437	.00585	.00089	-.00053	.00065	10.00000
4.000	-.06209	-.01076	.00912	.00065	-.00097	.00030	12.00000
GRADIENT	-.01370	-.00320	.00114	-.00012	-.00022	-.00018	1.00000

DZ = 45.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02027	-.00196	.00471	.00171	-.00049	.00061	10.00000
4.000	-.04376	-.00557	.00607	.00160	-.00085	-.00011	12.00000
GRADIENT	-.01174	-.00181	.00068	-.00006	-.00018	-.00036	1.00000

DZ = 50.000   RN/L = 3.35   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02202	-.00201	.00395	.00184	-.00047	.00044	10.00000
4.000	-.03846	-.00414	.00547	.00200	-.00026	-.00008	12.00000
GRADIENT	-.00822	-.00105	.00076	.00008	-.00020	-.00026	1.00000

ARC 14-120(CA23B) 747/1 ATI 0251 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = 5.000
IORB = 6.000	DX = .000
DY = .000	MACH = .600

DZ = 3.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05878	-.00890	.01274	.00123	.00019	.00102	8.00000
4.000	-.10819	-.01668	.01614	.00023	.00001	.00118	10.00000
GRADIENT	-.02471	-.00389	.00173	-.00050	-.00009	.00008	1.00000

DZ = 7.500 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05758	-.00850	.01019	.00035	.00013	.00087	8.00000
4.000	-.10112	-.01532	.01325	-.00010	.00000	.00115	10.00000
GRADIENT	-.02177	-.00341	.00153	-.00022	-.00007	.00014	1.00000

DZ = 10.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05623	-.00836	.00962	-.00026	.00003	.00074	8.00000
4.000	-.09876	-.01485	.01252	.00000	-.00005	.00100	10.00000
GRADIENT	-.02126	-.00325	.00145	.00013	-.00004	.00013	1.00000

DZ = 15.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05394	-.00707	.00806	-.00054	-.00002	.00070	8.00000
4.000	-.09436	-.01332	.01090	-.00019	-.00011	.00092	10.00000
GRADIENT	-.02021	-.00313	.00143	.00017	-.00004	.00011	1.00000

DZ = 30.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04032	-.00497	.00677	-.00052	-.00010	.00039	8.00000
4.000	-.07330	-.00927	.00893	.00076	-.00006	.00068	10.00000
GRADIENT	-.01649	-.00215	.00108	.00064	.00002	.00015	1.00000

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ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA) (4NHY13) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	RUDDER = .000	ELEVON = 5.000
BREF =	936.6800 IN.	ZMRP =	375.0000 IN.	ZO	1ORB = 6.000	DX = .000
SCALE =	.0125				DY = .000	MACH = .600

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02973	-.00368	.00599	-.00004	-.00003	.00040	8.00000
4.000	-.05703	-.00620	.00732	.00039	-.00018	.00056	10.00000
GRADIENT	-.01365	-.00126	.00066	.00022	-.00008	.00008	1.00000

RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02705	-.00277	.00541	.00010	.00003	.00057	8.00000
4.000	-.05018	-.00484	.00667	.00058	-.00016	.00069	10.00000
GRADIENT	-.01157	-.00104	.00063	.00024	-.00009	.00006	1.00000

ARC 14-120(CA23B) 747/1 AT1 02S1 (ORBITER DATA) (4NHY18) (17 OCT 75)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000 IN.	XO	BETA = .000	STAB = 5.000
LREF =	474.8100 IN.	YMRP =	.0000 IN.	YO	RUDDER = .000	ELEVON = 5.000
BREF =	935.6800 IN.	ZMRP =	375.0000 IN.	ZO	1ORB = 6.000	DX = .000
SCALE =	.0125				DY = 10.000	MACH = .600

RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05330	-.00980	.01241	.00152	-.00116	-.00180	8.00000
4.000	-.10297	-.01675	.01670	-.00074	-.00165	-.00430	10.00000
GRADIENT	-.02484	-.00348	.00215	-.00113	-.00024	-.00125	1.00000

RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04861	-.00818	.01018	-.00016	-.00102	-.00144	8.00000
4.000	-.09333	-.01465	.01303	-.00109	-.00135	-.00307	10.00000
GRADIENT	-.02236	-.00324	.00143	-.00047	-.00017	-.00081	1.00000

ARC 14-120(CA23B) 747/1 AT1 O2S1 (ORBITER DATA) (4NHY1B) (17 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.		XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.		YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.		ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125				

PARAMETRIC DATA

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	6.000	DX	=	.000
DY	=	10.000	MACH	=	.600

DZ = 10.000 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04836	-.00780	.00931	.00028	-.00080	-.00148	8.00000
4.000	-.08934	-.01360	.01216	-.00111	-.00136	-.00269	10.00000
GRADIENT	-.02049	-.00290	.01143	-.00069	-.00028	-.00061	1.00000

DZ = 15.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04619	-.00709	.00829	-.00011	-.00067	-.00140	8.00000
4.000	-.08357	-.01209	.01098	-.00107	-.00105	-.00195	10.00000
GRADIENT	-.01869	-.00250	.00134	-.00048	-.00019	-.00028	1.00000

DZ = 30.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03742	-.00470	.00605	-.00024	-.00034	-.00071	8.00000
4.000	-.06673	-.00781	.00801	-.00045	-.00068	-.00097	10.00000
GRADIENT	-.01465	-.00155	.00098	-.00010	-.00017	-.00013	1.00000

DZ = 45.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02352	-.00264	.00522	.00039	-.00017	-.00037	8.00000
4.000	-.04797	-.00456	.00657	.00044	-.00031	-.00055	10.00000
GRADIENT	-.01222	-.00096	.00067	.00002	-.00017	-.00009	1.00000

DZ = 50.000 RN/L = 3.35 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02311	-.00239	.00470	.00084	-.00010	-.00016	8.00000
4.000	-.04420	-.00387	.00603	.00052	-.00052	-.00042	10.00000
GRADIENT	-.01055	-.00074	.00066	-.00016	-.00021	-.00013	1.00000

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ARC 14-120(CA23B)　747/1 ATI O2S1　(ORBITER DATA)　　　　(4NHY19)　(17 OCT 75)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.　XMRP = 1109.0000 IN. XO　　　　BETA = .000　STAB = 5.000
LREF = 474.8100 IN.　　　 YMRP = .0000 IN. YO　　　　　 RUDDER = .000　ELEVON = 5.000
BREF = 936.6800 IN.　　　 ZMRP = 375.0000 IN. ZO　　　　IORB = 8.000　DX = .000
SCALE = .0125　　　　　　　　　　　　　　　　　　　　　　DY = 10.000　MACH = .600

DZ = 3.500　　GRADIENT INTERVAL = -5.00/ 5.00　　RN/L = 3.34

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05218	-.01392	.01293	.00060	-.00173	-.00235	10.00000
4.000	-.09010	-.02199	.01747	-.00223	-.00141	-.00558	12.00000
GRADIENT	-.01896	-.00404	.00227	-.00142	.00016	-.00162	1.00000

DZ = 7.500　　GRADIENT INTERVAL = -5.00/ 5.00　　RN/L = 3.34

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04884	-.01090	.01136	.00063	-.00138	-.00176	10.00000
4.000	-.08693	-.02074	.01524	-.00161	-.00136	-.00431	12.00000
GRADIENT	-.01905	-.00492	.00194	-.00112	.00001	-.00127	1.00000

DZ = 10.000　　GRADIENT INTERVAL = -5.00/ 5.00　　RN/L = 3.33

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04493	-.00680	.01028	.00062	-.00116	-.00147	10.00000
4.000	-.08455	-.02014	.01367	-.00110	-.00135	-.00343	12.00000
GRADIENT	-.01981	-.00567	.00170	-.00086	-.00010	-.00098	1.00000

DZ = 15.000　　GRADIENT INTERVAL = -5.00/ 5.00　　RN/L = 3.35

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04849	-.00757	.00849	-.00006	-.00084	-.00070	10.00000
4.000	-.08195	-.01761	.01199	-.00070	-.00118	-.00233	12.00000
GRADIENT	-.01673	-.00502	.00175	-.00032	-.00017	-.00081	1.00000

DZ = 30.000　　GRADIENT INTERVAL = -5.00/ 5.00　　RN/L = 3.35

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03771	-.00473	.00649	.00039	-.00250	-.00011	10.00000
4.000	-.05056	-.01062	.00891	-.00035	-.00010	-.00100	12.00000
GRADIENT	-.01143	-.00294	.00121	-.00067	-.00025	-.00045	1.00000

ARC 14-120(CA23B)   747/1 ATI 02S1 (ORBITER DATA)   (4NHY19)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	5.000
IORB	=	8.000	DX	=	.000
DY	=	10.000	MACH	=	.600

DZ = 45.000   RN/L =   3.35   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02317	-.00259	.00543	.00115	-.00058	-.00014	10.00000
4.000	-.04111	-.00528	.00709	.00182	-.00074	-.00079	12.00000
GRADIENT	-.00897	-.00135	.00083	.00033	-.00008	-.00033	1.00000

DZ = 50.000   RN/L =   3.35   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01980	-.00185	.00512	.00125	-.00050	.00015	10.00000
4.000	-.03653	-.00416	.00641	.00138	-.00093	.00067	12.00000
GRADIENT	-.00842	-.00116	.00065	.00006	-.00022	-.00041	1.00000

ARC 14-120(CA23B)   747/1 ATI 03S1 (ORBITER DATA)   (4NHY27)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	1109.0000 IN. XO
LREF	=	474.8100 IN.	YMRP	=	.0000 IN. YO
BREF	=	936.6800 IN.	ZMRP	=	375.0000 IN. ZO
SCALE	=	.0125			

BETA	=	.000	STAB	=	5.000
RUDDER	=	.000	ELEVON	=	.000
IORB	=	8.000	DX	=	.000
DY	=	.000	MACH	=	.600

DZ = 3.500   RN/L =   3.31   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04445	-.00702	.01474	.00343	.00125	.00027	10.00000
4.000	-.09119	-.02099	.02245	.00236	-.00009	.00053	12.00000
GRADIENT	-.02337	-.00699	.00385	-.00053	-.00067	.00013	1.00000

DZ = 7.500   RN/L =   3.30   GRADIENT INTERVAL = -5.00/   5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04596	-.00708	.01230	.00239	.00085	.00047	10.00000
4.000	-.08850	-.02040	.01871	.00283	-.00009	.00037	12.00000
GRADIENT	-.02127	-.00666	.00320	.00022	-.00047	-.00005	1.00000

ARC 14-120(CA23B) 747/1 AT1 O3S1 (ORBITER DATA)   (4NHY27)   (17 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN.	XO	
LREF = 474.8100 IN.	YMRP = .0000 IN.	YO	
BREF = 936.6800 IN.	ZMRP = 375.0000 IN.	ZO	
SCALE = .0125			

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
1ORB =	8.000	DX =	.000
DY =	.000	MACH =	.600

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04651	-.00691	.01029	.00132	.00062	.00073	10.00000
4.000	-.08733	-.02008	.01571	.00295	.00003	.00025	12.00000
GRADIENT	-.02041	-.00658	.00271	.00082	-.00029	-.00024	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04708	-.00745	.00928	.00228	.00007	.00027	10.00000
4.000	-.08157	-.01982	.01445	.00446	-.00041	.00018	12.00000
GRADIENT	-.01725	-.00559	.00259	.00109	-.00024	-.00004	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03604	-.00454	.00604	.00199	.00006	.00024	10.00000
4.000	-.06040	-.01361	.01151	.00363	-.00026	.00012	12.00000
GRADIENT	-.01218	-.00454	.00274	.00082	-.00016	-.00006	1.00000

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02089	-.00261	.0059:	.00215	.00007	-.00018	10.00000
4.000	-.04165	-.00972	.0105:	.00256	.00021	.00037	12.00000
GRADIENT	-.01038	-.00355	.00230	.00020	.00007	.00027	1.00000

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01952	-.00237	.00495	.00232	.00007	-.00014	10.00000
4.000	-.03641	-.00843	.01026	.00224	.00033	.00053	12.00000
GRADIENT	-.00945	-.00303	.00265	-.00004	.00013	.00033	1.00000

ARC 14-120(CA23B) 747/1 ATI 0351 (ORBITER DATA)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA = .000	STAB = 5.000
RUDDER = .000	ELEVON = .000
IORB = 6.000	DX = .000
DY = 10.000	MACH = .600

DZ = 3.500 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04669	-.00883	.01349	.00108	-.00120	-.00148	8.00000
4.000	-.09279	-.01462	.01577	.00131	-.00157	-.00368	10.00000
GRADIENT	-.02305	-.00289	.00114	.00011	-.00018	-.00110	1.00000

DZ = 7.500 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04353	-.00774	.00930	.00068	-.00083	-.00153	8.00000
4.000	-.08615	-.01317	.01109	.00006	-.00107	-.00275	10.00000
GRADIENT	-.02131	-.00272	.00089	-.00031	-.00012	-.00061	1.00000

DZ = 10.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04733	-.00735	.00823	.00096	-.00067	-.00129	8.00000
4.000	-.08796	-.01267	.01019	-.00027	-.00121	-.00250	10.00000
GRADIENT	-.02052	-.00266	.00098	-.00062	-.00027	-.00061	1.00000

DZ = 15.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04692	-.00686	.00699	.00090	-.00058	-.00125	8.00000
4.000	-.08166	-.01152	.0096C	-.00027	-.00115	-.00229	10.00000
GRADIENT	-.01742	-.00233	.00131	-.00058	-.00029	-.00052	1.00000

DZ = 30.000 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03575	-.00432	.00536	.00101	-.00017	-.00089	8.00000
4.000	-.06274	-.00707	.00797	.00038	-.00051	-.00122	10.00000
GRADIENT	-.01349	-.00137	.00131	-.00031	-.00017	-.00017	1.00000

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (4NHY32)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.02312	-.00307	.00536	.00019	-.00026	-.00069	8.00000
4.000	-.04632	-.00434	.00661	.00028	-.00037	-.00067	10.00000
GRADIENT	-.01160	-.00078	.00063	.00005	-.00005	.00001	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01875	-.00254	.00560	.00035	-.00020	-.00087	8.00000
4.000	-.03838	-.00368	.00659	.00044	-.00028	-.00056	10.00000
GRADIENT	-.00981	-.00057	.00050	.00004	-.00004	.00015	1.00000

ARC 14-120(CA23B)   747/1 AT1 03S1 (ORBITER DATA)   (4NHY33)   (17 OCT 75)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 8.000	DX = .000
SCALE = .0125		DY = 10.000	MACH = .600

RN/L = 3.31   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 3.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05096	-.01369	.01431	-.00056	-.00093	.00249	10.00000
4.000	-.09671	-.02532	.02102	-.00100	-.00146	-.00560	12.00000
GRADIENT	-.02288	-.00582	.00335	-.00022	-.00026	-.00155	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 7.500

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04894	-.01028	.01223	.00011	-.00077	-.00190	10.00000
4.000	-.03240	-.02358	.01888	-.00044	-.00140	-.00452	12.00000
GRADIENT	-.02173	-.00565	.00333	-.00028	-.00031	-.00131	1.00000

ARC 14-120(CA23B)   747/1 AT1 03S1   (ORBITER DATA)   (4ARY33)   (17 OCT

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	10.00000
RUDDER =	.000	ELEVON =	12.00000
IORB =	3.000	DX =	3.00000
DY =	10.000	MACH =	1.00000

DZ = 10.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04674	-.00793	.01050	.00039	-.00063	-.00154	10.00000
4.000	-.08918	-.02231	.01740	.00006	-.00133	-.00368	12.00000
GRADIENT	-.02122	-.00719	.00345	-.00022	-.00035	-.00107	1.00000

DZ = 15.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.04757	-.00742	.00908	.00084	-.00054	-.00134	10.00000
4.000	-.08444	-.02067	.01559	.00049	-.00132	-.00302	12.00000
GRADIENT	-.01844	-.00662	.00326	-.00018	-.00039	-.00084	1.00000

DZ = 30.000   RN/L = 3.29   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03432	-.00457	.00787	.00121	-.00023	-.00052	10.00000
4.000	-.05625	-.01370	.01324	.00116	-.00104	-.00093	12.00000
GRADIENT	-.01037	-.00456	.00269	-.00003	-.00040	-.00021	1.00000

DZ = 45.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01984	-.00240	.00694	.00109	-.00042	-.00034	10.00000
4.000	-.04163	-.01026	.01217	.00134	-.00027	-.00049	12.00000
GRADIENT	-.01090	-.00393	.00261	.00012	.00007	-.00007	1.00000

DZ = 50.000   RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.01861	-.00253	.00651	.00135	-.00024	-.00030	10.00000
4.000	-.03856	-.00975	.01158	.00137	.00006	-.00026	12.00000
GRADIENT	-.00938	-.00361	.00254	.00001	.00015	.00002	1.00000

ARC 14-120(CA23B) 747/1 AT1 035) (ORBITER DATA)

REFERENCE DATA		PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO	BETA = .000	STAB = 5.000
LREF = 474.8100 IN.	YMRP = .0000 IN. YO	RUDDER = .000	ELEVON = .000
BREF = 936.6800 IN.	ZMRP = 375.0000 IN. ZO	IORB = 6.000	DX = .00?
SCALE = .0125		DY = .000	MACH = .60

DZ = 3.500 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05437	-.00879	.01688	.00363	.00019	.00015	8.00000
4.000	-.10107	-.01458	.01886	.00360	.00043	.00020	10.00000
GRADIENT	-.02335	-.00289	.00099	-.00001	.00012	.00003	1.00000

DZ = 7.500 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05156	-.00814	.01236	.00309	-.00007	.00002	8.00000
4.000	-.09385	-.01351	.01450	.00288	.00024	.00013	10.00000
GRADIENT	-.02114	-.00268	.00107	-.00010	.00015	.00006	1.00000

DZ = 10.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05304	-.00779	.01009	.00301	-.00004	-.00002	8.00000
4.000	-.09063	-.01294	.01297	.00273	.00015	.00002	10.00000
GRADIENT	-.01879	-.00257	.00144	-.00014	.00010	.00002	1.00000

DZ = 15.000 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.05072	-.00725	.00720	.00301	-.00015	-.00018	8.00000
4.000	-.08597	-.01175	.01025	.00271	.00015	.00009	10.00000
GRADIENT	-.01762	-.00225	.00162	-.00015	.00015	.00014	1.00000

DZ = 30.000 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL	ALPHAO
2.000	-.03742	-.00480	.00539	.00301	-.00000	-.00047	8.00000
4.000	-.06343	-.00778	.00950	.00225	-.00025	-.00009	10.00000
GRADIENT	-.01301	-.00144	.00106	-.00038	-.00012	.00019	1.00000

DATE 23 MAR 76

TABULATED SOURCE DATA - CA23B

ARC 14-120(CA23B)   747/1 ATI O351 (ORBITER DATA)

(4NHY34)   (17 OCT 75)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 1109.0000 IN. XO
LREF =	474.8100 IN.	YMRP = .0000 IN. YO
BREF =	936.6800 IN.	ZMRP = 375.0000 IN. ZO
SCALE =	.0125	

PARAMETRIC DATA

BETA =	.000	STAB =	5.000
RUDDER =	.000	ELEVON =	.000
IORB =	6.000	DX =	.000
DY =	.000	MACH =	.600

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 45.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.02417	-.00360	.00643	.00190	-.00027	-.00073
4.000	-.04343	-.09513	.00762	.00194	-.00026	.00003
GRADIENT	-.00963	-.00077	.00059	.00002	.00001	.00038

ALPHAO		
8.00000	10.00000	1.00000

RN/L = 3.30   GRADIENT INTERVAL = -5.00/ 5.00

DZ = 50.000

ALPHAC	DCL	DCD	DCLM	DCY	DCYN	DCBL
2.000	-.01906	-.03342	.00667	.00167	-.00019	-.00071
4.000	-.03799	-.00439	.00756	.00229	-.00013	-.00019
GRADIENT	-.00947	-.00048	.00045	.00031	.00003	.00026

ALPHAO		
8.00000	10.00000	1.00000