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**STATIC AND ROTATIONAL AERODYNAMIC
DATA FROM 0° TO 90° ANGLE OF ATTACK
FOR A SERIES OF BASIC AND ALTERED
FOREBODY SHAPES**

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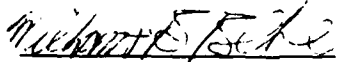
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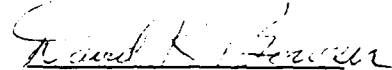
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This technical report has been reviewed and is approved for publication.



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FOREWORD

This report was prepared for the United States Air Force by Bihrl Applied Research, Inc., Jericho, New York, in fulfillment of Contract F33615-86-C-3624, a Phase II SBIR effort, entitled "Development of a Design Guide and Criterion for Defining Departure/Spin Resistant Forebody Configurations." The work reported herein was performed during the period from August 1987 through September 1988, under the sponsorship of the USAF Aeronautical Systems Division, Wright-Patterson Air Force Base, Ohio 45433-6503. Mr. Dieter Multhopp and Mr. William Blake, WRDC/FIGC, monitored the study as the Air Force Project Engineers.



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TABLE OF CONTENTS

Section	Page
1 INTRODUCTION	1
2 MODELS	2
2.1 Basic Forebodies	2
2.2 Airplane	2
2.3 Blunted Forebodies	3
2.4 Inclined Forebodies	3
2.5 Forebody Chines	3
2.6 Forebody Strakes	3
3 EXPERIMENTAL INFORMATION	5
3.1 Test Equipment	5
3.2 Test Procedures	6
3.3 Test Conditions	6
4 DATA PRESENTATION	7
REFERENCES	9

LIST OF ILLUSTRATIONS

Figure		Page
1	Forebodies tested during the Phase II study	14
2	Configuration used for assessing interaction of forebodies with other airplane components	15
3	Blunted forebodies tested during Phase II study	16
4	Plan view and cross-sectional cuts of chined forebodies	18
5	V-Strake tested on $H/W=0.8$, $FR=4.5$ forebody	20
6	Sketch of rotary balance apparatus	21

LIST OF TABLES

TABLE		PAGE
I	Configurations tested and data index	10
II	Body dimensional characteristics	12
III	Blunted body dimensional characteristics	13

NOMENCLATURE

b	wing span
$\bar{c}$	mean aerodynamic chord
$\bar{q}$	dynamic pressure
S	wing area
V	free-stream velocity
Ω	angular velocity about spin axis
$\Omega b/2V$	spin coefficient, positive for clockwise spin
C_A	axial-force coefficient, axial force/ $\bar{q}S$
C_N	normal-force coefficient, normal force/ $\bar{q}S$
C_Y	side-force coefficient, side force/ $\bar{q}S$
C_l	body-axis rolling-moment coefficient, Rolling moment/ $\bar{q}Sb$
C_m	pitching-moment coefficient, Pitching moment/ $\bar{q}S\bar{c}$
C_n	body-axis yawing-moment coefficient, Yawing moment/ $\bar{q}Sb$
FR	forebody fineness ratio, forebody length divided by the height of its base
H/W	ratio of forebody base height to width

SECTION 1

INTRODUCTION

The high angle-of-attack aerodynamic characteristics of an aircraft are very configuration dependent, with the forebody being a major contributor. Consequently, a systematic experimental forebody study was conducted to assist in the development of a criterion and design guide to predict the aerodynamic characteristics and resulting aircraft responses as a function of forebody geometry. Limited tests were also conducted to determine the effect of forebody modifications, such as blunting, inclining the forebody, or the addition of chines or strakes. An analysis of these experimental data, as well as the design guide, is presented in Reference 1.

This report presents all of the experimental data that were measured for the study reported in Reference 1. The six-component data presented were obtained with the rotary balance located in the NASA Langley Research Center's 20-Foot Spin Tunnel for the configurations described herein.

SECTION 2

MODELS

Models were constructed that systematically varied forebody fineness ratio and cross-sectional shape without varying aft fuselage geometry. In addition, modifications of the basic forebody geometries were made for selected configurations: some forebody tips were blunted, some forebodies were inclined, and others had chines and strakes added. Some tests were also repeated for a selected set for forebodies, with a wing and vertical tail added to the afterbodies in order to illustrate possible interaction of the forebody vortices with other aircraft components. A listing of the configurations tested is presented in Table I.

2.1 Basic Forebodies

The twenty-four forebody models tested are shown in Figure 1, and their dimensions tabulated in Table II (which also includes total body dimensions). Six forebody fineness ratios were tested, namely 1, 2, 3, 4, 4.5 and 5. The fineness ratio (FR) is defined as the length between the tip and base of the forebody, divided by the height of the forebody at its base. Three cross-sectional shapes (H/W ratios of 0.6, 0.8, and 1.0), having the same base cross-sectional area were tested at each FR. In each case, the forebodies were mounted on afterbodies having constant cross-sections equal to those of the base of the forebodies. The H/W=0.8 forebodies were also rolled 90 degrees and tested on a vertical ellipse afterbody, thus permitting H/W=1.25 forebodies to be tested. These forebodies when mounted on the vertical ellipse afterbody, because of the definition of fineness ratio, yielded slightly diminished FR values. However, the resulting fineness ratios (from 0.8 to 4) still provided adequate coverage of probable aircraft values.

2.2 Airplane

To illustrate the possible influence of forebody characteristics on other airplane components, tests were conducted with a vertical tail and wing added to H/W=0.6 and 1.0 bodies having FR 2 and 5 forebodies. The model dimensions are presented in Figure 2 and are representative of a typical 1/10-scale fighter aircraft model.

2.3 Blunted Forebodies

To determine the influence of nose bluntness, additional elliptical cross-sectioned forebody models were tested. These forebodies were the same shape as the original forebodies up to a point 3" from the tip. From this point to the tip, a polynomial curve fit of the form $r(x)=a_1x^{1/2}+a_2x+a_3x^2$ was used. For example, forebodies with a fineness ratio 5 had their tips rounded to produce equivalent 4.5 and 4 FR forebodies. A sketch of these forebodies is presented in Figure 3. Using the same procedure, the 4 FR forebody shapes were modified to generate equivalent 3 FR blunt forebodies. Table III presents the dimensional characteristics for the blunted forebodies and total body configurations.

2.4 Inclined Forebodies

By modifying the forebody's upper surface to meet pilot visibility requirements, designers produce an effective droop in the forebody that typically lies between 6° and 10°. To simulate this effect, a wedge was placed between the body and forebody, producing a 7.5° inclined forebody. Investigation of the influence of inclination was conducted with the circular ($H/W=1.0$) and the elliptical ($H/W=0.6$) cross-sectional shapes at fineness ratios of 3 and 5.

2.5 Forebody Chines

Two chined forebodies, having a sharp-edged discontinuity or cusp extending laterally along the length of the forebody, were investigated. The chines of these forebodies, however, were not extended onto the afterbody. Cross-sections of the selected 45° and 135° chine configurations are depicted in Figure 4. The influence of chines was investigated only for a fineness ratio 4, $H/W=1.0$ forebody.

2.6 Forebody Strakes

Other considerations may dictate the use of a forebody whose geometry has undesirable aerodynamic characteristics at high angles of attack. Therefore, a device to alter the aerodynamics of such a forebody is extremely useful. For instance, various strakes have been used on forebodies, primarily to alter their static directional contribution at and

beyond wing stall. Consequently, a strake configuration (see Figure 5) was tested on a forebody model to illustrate its influence in altering the aerodynamics, both statically and rotationally.

SECTION 3

EXPERIMENTAL INFORMATION

3.1 Test Equipment

A rotary balance measures the forces and moments acting on a model while it is subjected to rotational flow conditions. Historical background for this testing technique is discussed in Reference 2. A sketch of the rotary balance apparatus installed in the NASA Langley Spin Tunnel is shown in Figure 6. The system's rotary arm, which rotates about a vertical axis at the tunnel center, is supported by a horizontal boom and is driven by a motor external to the test section.

A NASA six-component strain gauge balance, affixed to the bottom of the rotary balance apparatus and mounted inside the model, is used to measure the six forces and moments acting along and about the model body axis. Controls located outside of the tunnel test section are used to activate motors on the rig, which position the model to the desired attitude. The angle-of-attack range of the rig is 0° to 90° , and the sideslip-angle range is $\pm 30^\circ$. Spin radius and lateral displacement motors are used to position the moment center of the balance on, or at a specific distance from, the spin axis. (This is done for each combination of angle of attack and sideslip angle.) Electrical currents from the balance and to the motors on the rig are conducted through slip rings. Figure 6 identifies various components of the rig and shows how the rig is positioned in angle of attack and sideslip.

The system is capable of rotating up to 90 rpm in either direction. A range of $\Omega b/2V$ values can be obtained by adjusting rotational speed and/or tunnel air flow velocity. (Static aerodynamic forces and moments are obtained when $\Omega=0$.)

The data acquisition, reduction, and presentation system is composed of a 12-channel scanner/voltmeter, a computer with internal printer, a plotter, and a CRT display. This equipment permits data to be presented via on-line digital print-outs and/or graphical plots.

3.2 Test Procedures

Rotary aerodynamic data are obtained in two steps. First, the inertial forces and moments (tares) acting on the model at different attitudes and rotational speeds must be determined. Ideally, these inertial terms would be obtained by rotating the model in a vacuum, thus eliminating all aerodynamic forces and moments. As a practical approach, this is approximated closely by enclosing the model in a sealed spherical structure, which rotates with the model without touching it, such that the air immediately surrounding the model is rotated with it. As the rig is rotated at the desired attitude and rate, the inertial forces and moments generated by the model are measured and stored on magnetic disc for later use.

The enclosure is then removed and the force and moment data recorded with the wind tunnel operating. The tares, measured earlier, are then subtracted from these data, leaving only the aerodynamic forces and moments, which are converted to coefficient form.

3.3 Test Conditions

The experimental investigation was conducted at a velocity of 25 ft/sec, which corresponds to a Reynolds number of 5.3×10^4 and 2.09×10^5 based on the referenced body diameter and wing chord, respectively. All of the models were tested through an angle-of-attack range of 0° to 90° , in 5° increments. Measurements were obtained for each configuration at $\Omega b/2V$ values of 0, 0.05, 0.1, 0.2, 0.3 and 0.4, in both clockwise (pilot's right) and counter-clockwise directions. Additional static data, for a limited angle-of-attack range of 0° to 50° , were also obtained with an aft-mounted sting arrangement to investigate the possibility of sting interference, as well as to evaluate levels of static stability at sideslip angles of -2.5° , -5° and $\pm 10^\circ$. The electrical center of the balance was located in the afterbody where the 1/4-chord of a wing would be located, such that the absolute magnitude of the forebody moments measured are representative of an airplane configuration.

SECTION 4

DATA PRESENTATION

Table I identifies the configurations tested and the corresponding Appendix page numbers of the tabulated data. All of the data is presented in the body-axis system in order of increasing $\Omega b/2V$ for each tested angle of attack. The data has been non-dimensionalized with respect to a typical wing, using the following dimensions:

Span =	2.8 feet
Mean aerodynamic chord =	1.317 feet
Wing area =	3.09 ft ²

These values were used so that the relative magnitudes of the coefficient data would be meaningful to aircraft designers. The coefficient data can, of course, be easily converted to a form more useful to missile designers by multiplying them by the ratio of the wing area (and length) to the appropriate body area (and length).

The code on the top left-hand corner of each page of tabulated data identifies the configuration tested. The nomenclature for this code is as follows:

Notation	Description
A#	Afterbody with numerical value representing one of four ellipticity ratios (H/W). A1: H/W=0.6 A2: H/W=0.8 A3: H/W=1.0 A4: H/W=1.25
B#	Forebody with numerical value equal to forebody fineness ratio.
B#/#	Blunted forebody with numerical values defining original forebody fineness ratio/new blunted forebody fineness ratio.

C#	Chine forebody with numerical value representing one of two included chine angles. C1: 45 degree chine C2: 135 degree chine
D	Inclined forebody produced by adding a wedge between the forebody and afterbody, producing a 7.5 degree inclined forebody.
p	Sideslip angle with numerical value equal to angle of sideslip.
S	Specifies that the NASA SPT-1A six-component strain-gauge balance was used for these tests.
V	Vertical tail.
W	Wing

REFERENCES

1. Bihrlé, W. Jr., Barnhart, B., and Dickes, E.: "Influence of Forebody Geometry on Aerodynamic Characteristics and a Design Guide for Defining Departure/Spin Resistant Forebody Configurations," WRDC-TR-89-3079.
2. Bihrlé, W. Jr. and Barnhart, B.: "Spin Prediction Techniques," *Journal of Aircraft*, Vol. 20, No. 2, February 1983, pp. 97-101.

TABLE I. CONFIGURATIONS TESTED AND DATA INDEX
ALL CONFIGURATIONS TESTED FROM 0 TO 90 DEGREES ANGLE OF ATTACK IN 5 DEGREE INCREMENTS AT ROTATION RATES OF $\Omega b/2V = 0, \pm 0.5, \pm 1, \pm 2, \pm 3, \pm 4$

APPENDIX PAGE NO.	BASIC	CONFIGURATION	H/W	FR	REMARKS
		HORIZ ELLIPSE CROSS-SECTION			EFFECT OF CROSS-SECTIONAL SHAPE & FINENESS RATIO (BASIC DATA BASE)
1-5	BASIC		0.6	1.0	
6-10				2.0	
11-15				3.0	
16-20				4.0	
21-25				4.5	
26-30				5.0	
31-35		HORIZ ELLIPSE CROSS-SECTION	0.8	1.0	
36-40				2.0	
41-45				3.0	
46-50				4.0	
51-55				4.5	
56-60				5.0	
61-65		CIRCULAR CROSS-SECTION	1.0	1.0	
66-70				2.0	
71-75				3.0	
76-80				4.0	
81-85				4.5	
86-90				5.0	
91-95		VERT ELLIPSE CROSS-SECTION	1.25	0.8	
96-100				1.6	
101-105				2.4	
106-110				3.2	
111-115				3.6	
116-120				4.0	
121-125	BLUNTED	HORIZ ELLIPSE CROSS-SECTION	0.6	4/3	EFFECT OF NOSE BLUNTNESS (ORIG. FR / BLUNTED FR)
126-130				5/4.5	
131-135				5/4	
136-140		HORIZ ELLIPSE CROSS-SECTION	0.8	4/3	
141-145				5/4.5	
146-150				5/4	
151-155		VERT. ELLIPSE CROSS-SECTION	1.25	3.2/2.4	
156-160				4.0/3.6	
161-165				4.0/3.2	
166-170	INCLINED	HORIZ ELLIPSE CROSS-SECTION	0.6	3.0	EFFECT OF FOREBODY NOSE INCLINATION
171-175				5.0	
176-180		CIRCULAR CROSS-SECTION	1.0	3.0	
181-185				5.0	
186-190	CHINED			4.0	EFFECT OF FOREBODY CHINES
191-195					
196-200	BASIC	HORIZ ELLIPSE	0.6	2.0	EFFECT OF FOREBODY IN PRESENCE OF COMPONENTS
201-205		BODY+WING+VERT			
206-210		BODY+WING		5.0	
211-215		BODY+WING+VERT			
216-220		CIRCULAR	1.0	2.0	
221-225		BODY+WING			
226-230		BODY+WING+VERT		5.0	
231-235		BODY+WING			
236-240	CHINED	BODY+WING+VERT		4.0	
241-245		BODY+WING			
246-250	BASIC	HORIZ ELLIPSE CROSS-SECTION	0.8	4.5	EFFECT OF FOREBODY V-W STRAKES

TABLE I.- CONCLUDED.

ALL CONFIGURATIONS TESTED FROM 0 TO 50 DEGREES AT A ROTATION RATE OF $\Omega b/2V=0$.

APPENDIX PAGE NO.	BASIC	CONFIGURATION	H/W	FR	REMARKS
251-252	BASIC	HORIZ. ELLIPSE CROSS-SECTION	0.6	1.0	EFFECT OF FOREBODY AT SIDESLIP (BASIC DATA BASE)
253-254				2.0	
255-256		HORIZ. ELLIPSE CROSS-SECTION	0.8	3.0	
257-258				4.0	
259-260				4.5	
261-262		CIRCULAR CROSS-SECTION	1.0	5.0	
263-264				1.0	
265-266				2.0	
267-268		VERT. ELLIPSE CROSS-SECTION	1.25	3.0	
269-270				4.0	
271-272				4.5	
273-274		HORIZ. ELLIPSE CROSS-SECTION	0.6	5.0	
275-276				1.0	
277-278				2.0	
279-280	BLUNTED	HORIZ. ELLIPSE CROSS-SECTION	0.8	3.0	EFFECT OF NOSE BLUNTNESS (ORIG. FR / BLUNTED FR)
281-282				4.0	
283-284				4.5	
285-286		HORIZ. ELLIPSE CROSS-SECTION	1.25	5.0	
287-288				0.8	
289-290				1.6	
291-292		HORIZ. ELLIPSE CROSS-SECTION	0.6	2.4	
293-294				3.2	
295-296				3.6	
297-298		HORIZ. ELLIPSE CROSS-SECTION	0.8	4.0	
299-300				4/3	
301-302				5/4.5	
303-304		HORIZ. ELLIPSE CROSS-SECTION	1.25	5/4	
305-306				4/3	
307-308				5/4.5	
309-310	INCLINED	HORIZ. ELLIPSE CROSS-SECTION	0.6	5/4	EFFECT OF FOREBODY NOSE INCLINATION
311-312				3.2/2.4	
313-314				4.0/3.6	
315-316		HORIZ. ELLIPSE CROSS-SECTION	1.25	4.0/3.2	
317-318				3.0	
319-320				5.0	
321-322		HORIZ. ELLIPSE CROSS-SECTION	1.0	3.0	
323-324				5.0	
325-326				4.0	
327-328		HORIZ. ELLIPSE CROSS-SECTION	0.6	2.0	EFFECT OF FOREBODY CHINES
329-330				5.0	
331-332				5.0	
333-334	CHINED	HORIZ. ELLIPSE CROSS-SECTION	1.0	4.0	
335-336				5.0	
337-338				4.5	
	BASIC	HORIZ. ELLIPSE CROSS-SECTION	0.6	2.0	EFFECT OF FOREBODY IN PRESENCE OF COMPONENTS
				5.0	
				5.0	
	BASIC	HORIZ. ELLIPSE CROSS-SECTION	1.0	2.0	EFFECT OF FOREBODY V ₉₀ STRAKES
				5.0	
				5.0	

TABLE II.- BODY DIMENSIONAL CHARACTERISTICS

FOREBODY					TOTAL BODY					
H/W	H	W	FR	LENGTH Inches	PLANFORM AREA Inches ²	SIDE AREA Inches ²	FR	LENGTH Inches	PLANFORM AREA Inches ²	SIDE AREA Inches ²
0.6	3.10	5.16	1.0	3.10	11.18	6.71	16.82	52.10	264.22	158.51
			2.0	6.20	21.60	12.96	17.82	55.20	274.64	164.76
			3.0	9.30	32.18	19.31	18.82	58.30	285.22	171.11
			4.0	12.39	42.80	25.68	19.82	61.39	295.84	177.48
			4.5	13.94	48.12	28.87	20.32	62.94	301.16	180.67
0.8	3.58	4.47	5.0	15.49	53.44	32.06	21.82	64.49	306.48	183.86
			1.0	3.58	11.18	8.95	14.69	52.58	230.31	184.27
			2.0	7.16	21.60	17.28	15.69	56.16	240.73	192.60
			3.0	10.73	32.18	25.74	16.69	59.73	251.31	201.06
			4.0	14.31	42.80	34.24	17.69	63.31	261.93	209.56
1.0	4.00	4.00	4.5	16.10	48.12	38.49	18.19	65.10	267.25	213.81
			5.0	17.90	53.49	42.75	18.69	66.90	272.57	218.07
			1.0	4.00	11.37	11.37	13.27	53.07	207.37	207.37
			2.0	8.00	21.95	21.95	14.28	57.14	217.95	217.95
			3.0	12.00	32.59	32.59	15.29	61.16	228.59	228.59
1.25	4.47	3.58	4.0	16.00	43.04	43.04	16.27	65.09	239.04	239.04
			4.5	18.00	48.32	48.32	16.77	67.08	244.32	244.32
			5.0	20.00	54.31	54.31	17.33	69.33	250.31	250.31
			0.8	3.58	8.95	11.18	11.76	52.58	184.27	230.31
			1.6	7.16	17.28	21.60	12.56	56.16	192.60	240.73
			2.4	10.73	25.74	32.18	13.36	59.73	201.06	251.31
			3.2	14.31	34.24	42.80	14.16	63.31	209.56	261.93
			3.6	16.10	38.49	48.12	14.56	65.10	213.81	267.25
			4.0	17.90	42.75	53.44	14.97	66.90	218.07	272.57

TABLE III.- BLUNTED BODY DIMENSIONAL CHARACTERISTICS

FOREBODY				TOTAL BODY						
H/W	H	W	FR	LENGTH Inches	PLANFORM AREA Inches ²	SIDE AREA Inches ²	FR	LENGTH Inches	PLANFORM AREA Inches ²	SIDE AREA Inches ²
0.6	3.10	5.16	4 $\blacktriangleright$ 3	9.30	38.33	23.00	18.82	58.30	291.37	174.82
			5 $\blacktriangleright$ 4.5	13.94	52.33	31.40	20.32	62.94	305.37	183.22
			5 $\blacktriangleright$ 4	12.39	49.81	29.89	19.82	61.39	302.84	181.70
0.8	3.58	4.47	4 $\blacktriangleright$ 3	10.73	38.44	30.75	16.69	59.73	257.57	206.06
			5 $\blacktriangleright$ 4.5	16.10	52.38	41.90	18.19	65.10	271.51	217.21
			5 $\blacktriangleright$ 4	14.31	49.89	39.91	17.69	63.31	269.03	215.22
1.25	4.47	3.58	3.2 $\blacktriangleright$ 2.4	10.73	30.75	38.44	13.36	59.73	206.06	257.57
			4.0 $\blacktriangleright$ 3.6	16.10	41.90	52.38	14.56	65.10	217.21	271.51
			4.0 $\blacktriangleright$ 3.3	14.31	39.91	49.89	14.16	63.31	215.22	269.03

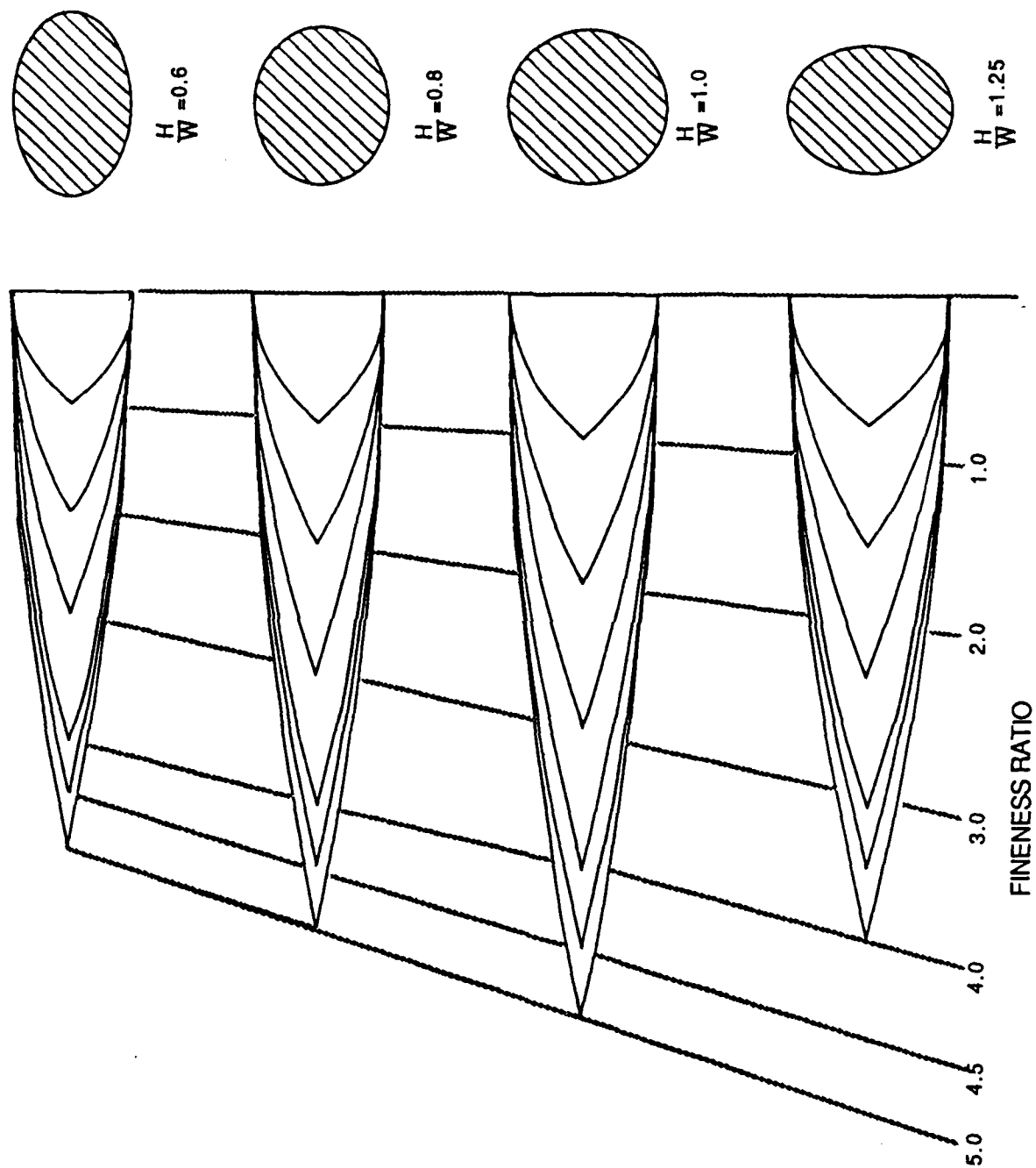


Figure 1. - Forebodies tested during the Phase II study

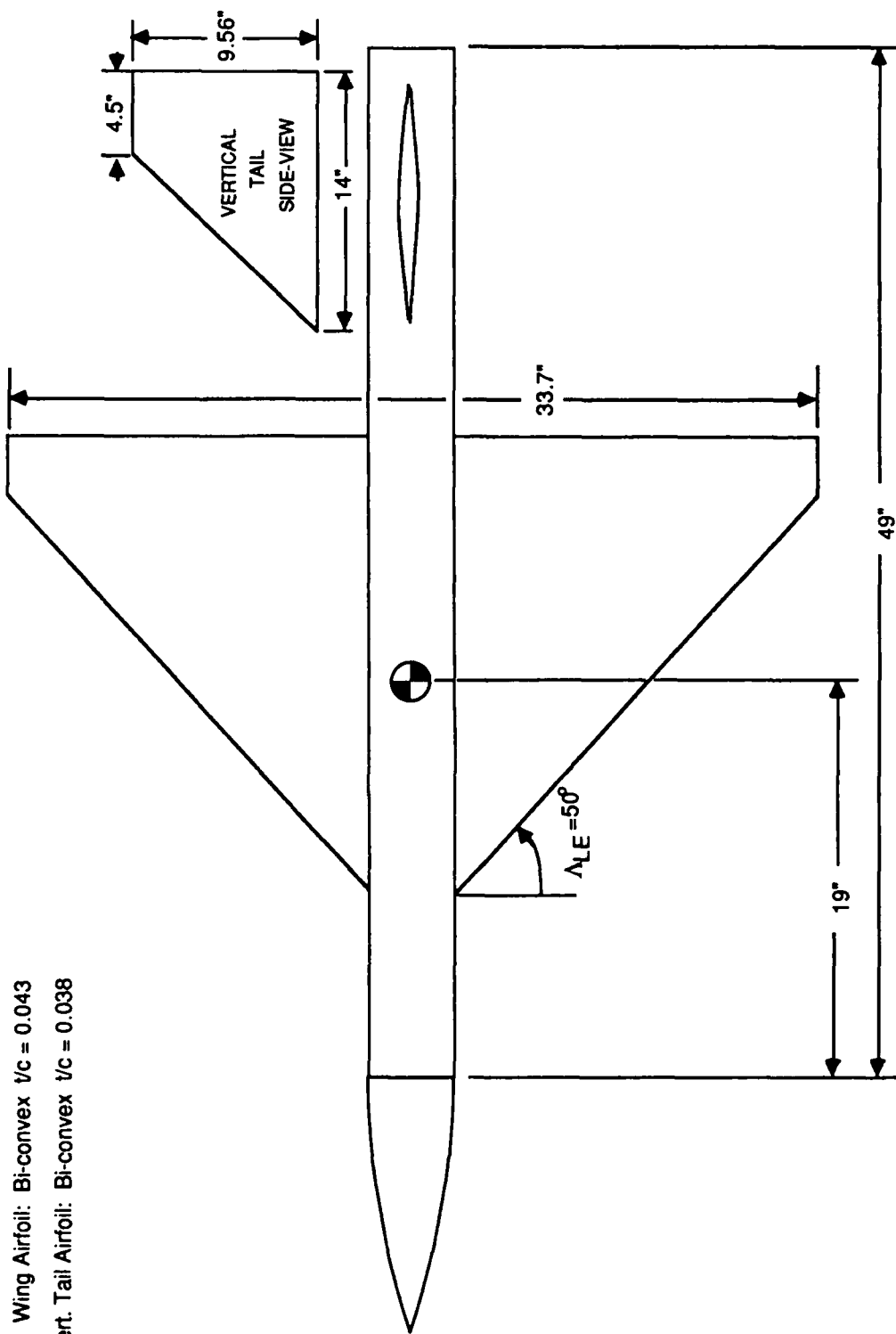
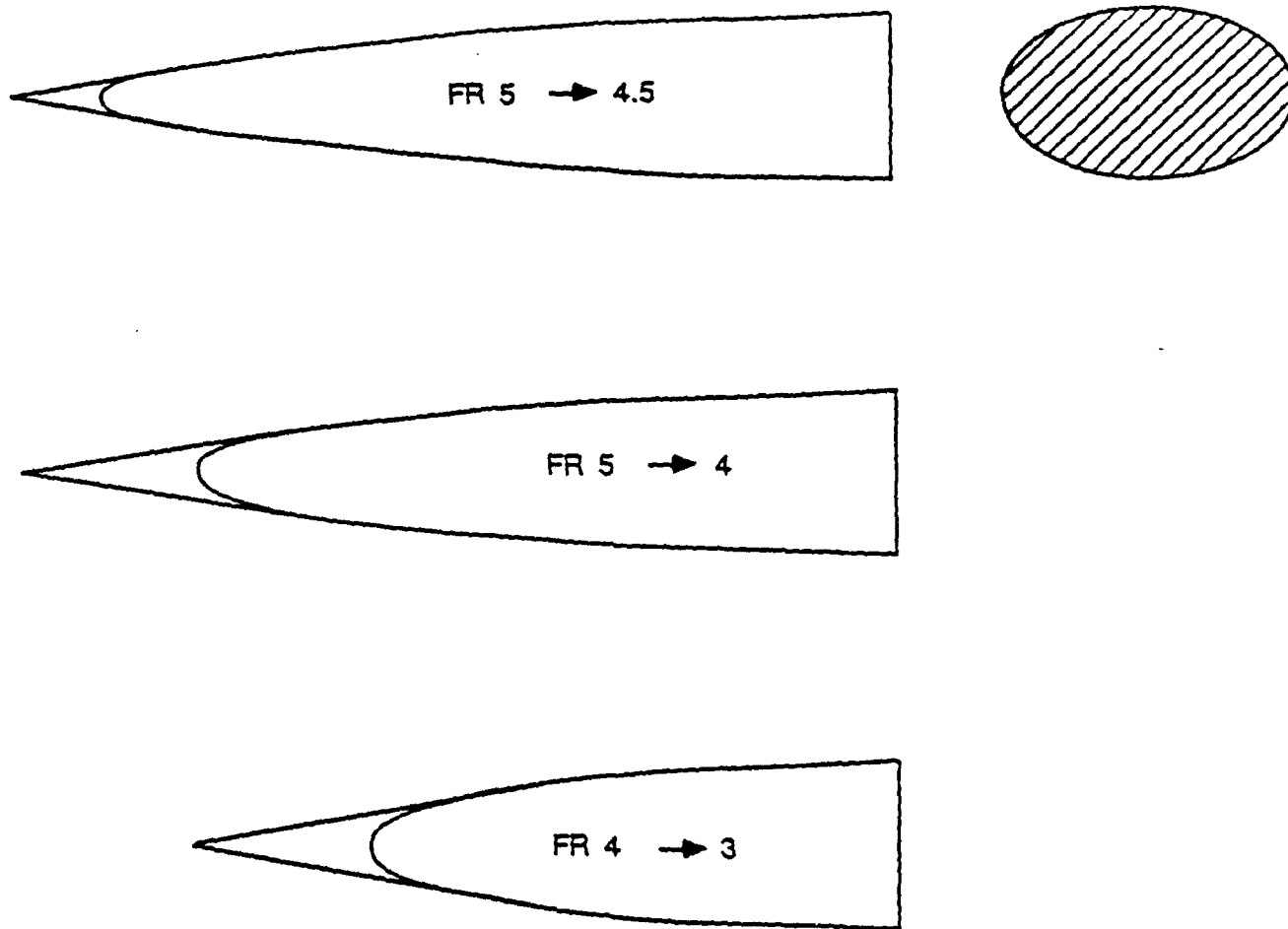
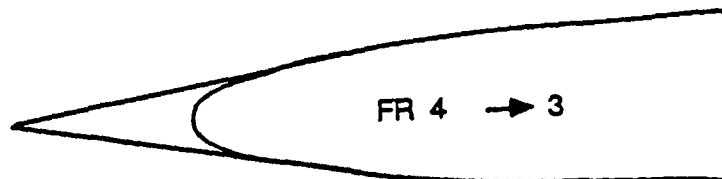
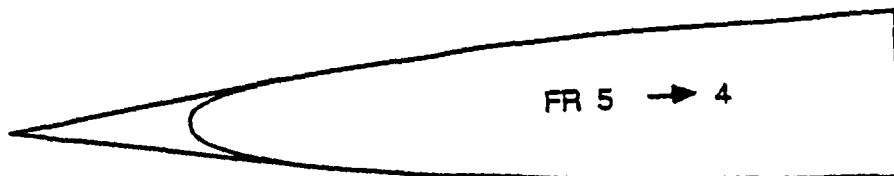
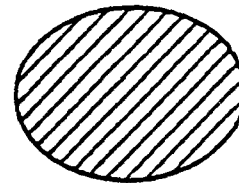
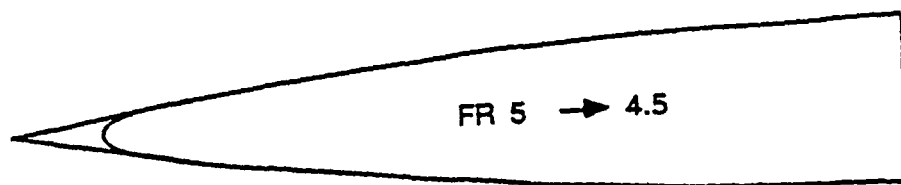


Figure 2.- Configuration used for assessing interaction of forebodies with other airplane components



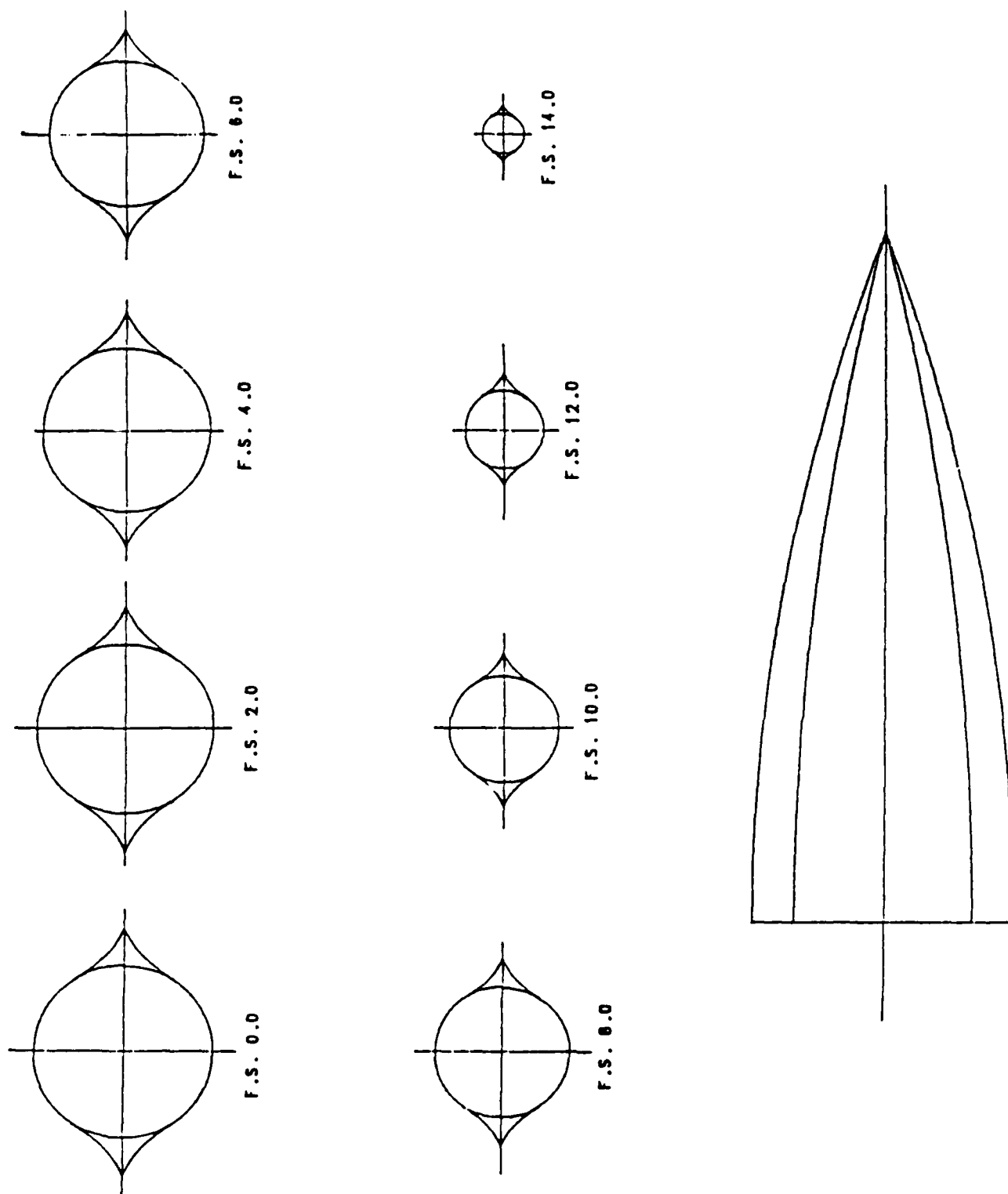
a) $H/W = 0.6$

Figure 3.- Blunted forebodies tested during Phase II study



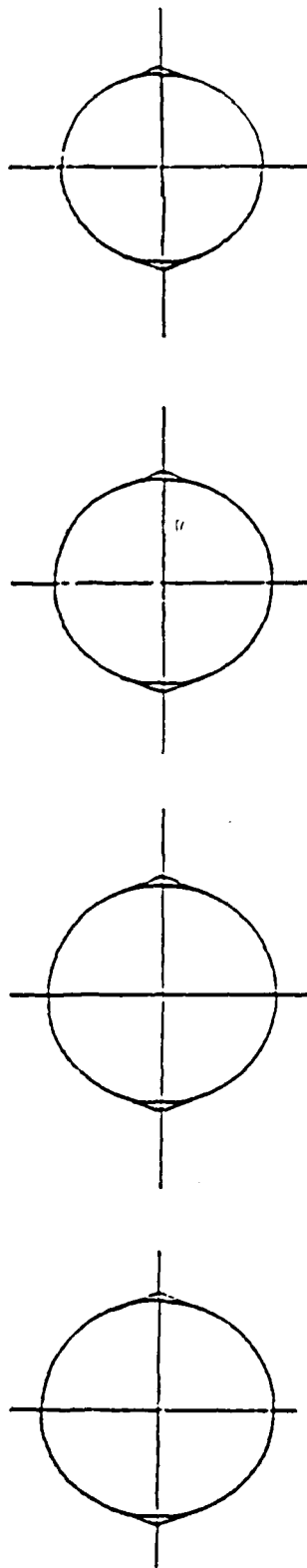
b) $H/W = 0.8$

Figure 3.- Concluded



a) 45° chine

Figure 4. - Plan view and cross-sectional cuts of chined forebodies

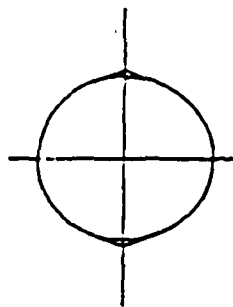


F.S. 0.0

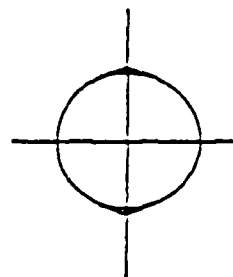
F.S. 2.0

F.S. 4.0

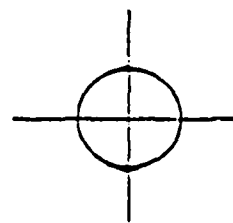
F.S. 6.0



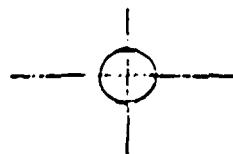
F.S. 8.0



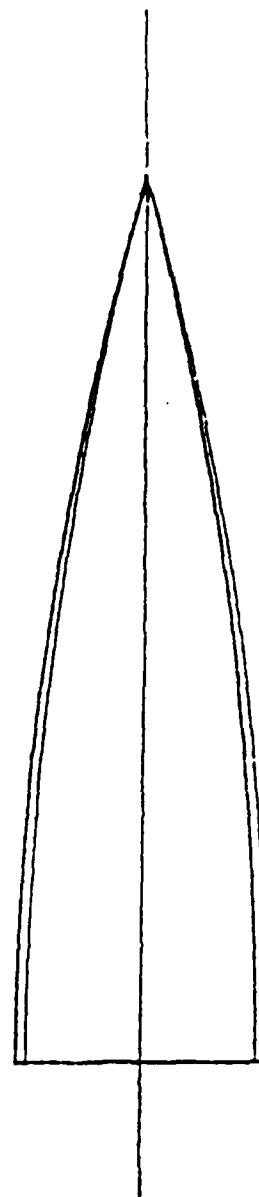
F.S. 10.0



F.S. 12.0



F.S. 14.0



b) 135° chine

Figure 4, - Concluded

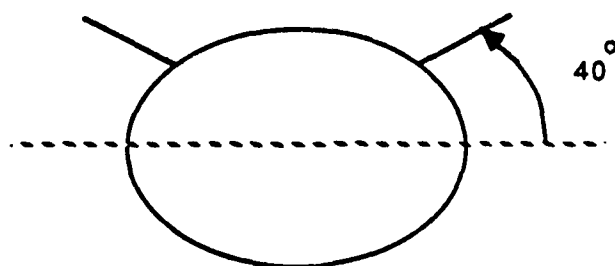
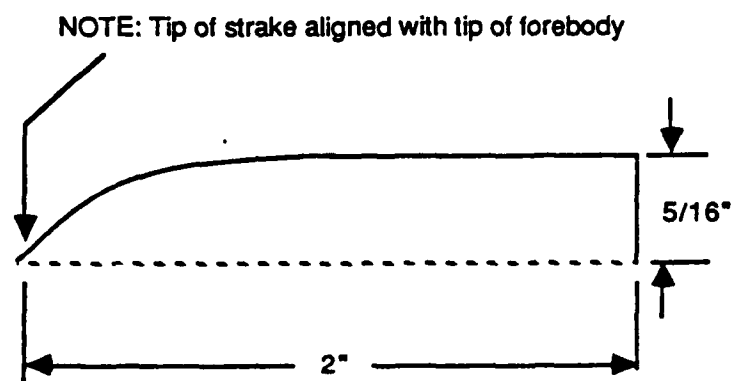
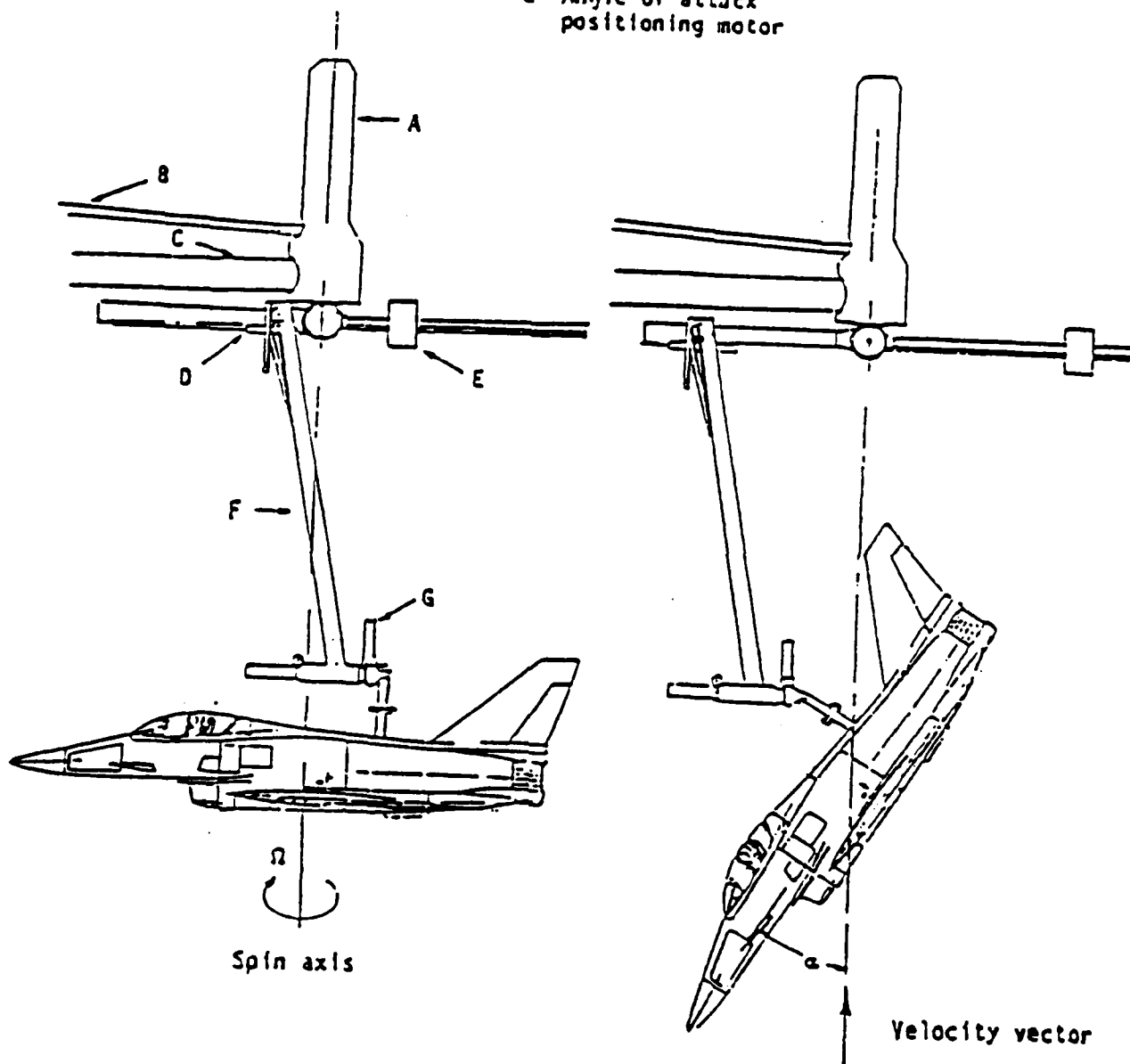


Figure 5. - V-Strake tested on $H/W = 0.8$, $FR = 4.5$ forebody

- A Slip ring housing
- B Drive shaft
- C Support boom
- D Spin radius offset potentiometer
- E Counterweight
- F Strut
- G Angle of attack positioning motor



a) Side view of model

Figure 6.- Sketch of rotary balance apparatus

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.011	.031	.015	.025	.0013	.000	-.40
	-.30	-.010	-.018	.004	.018	.0013	-.000	-.30
	-.20	-.010	-.035	.000	.015	.0013	-.000	-.20
	-.10	-.010	-.038	-.000	.013	.0013	-.000	-.10
	-.05	-.010	-.038	-.000	.012	.0013	-.000	-.05
	0.00	-.010	-.038	-.001	.012	.0012	-.000	0.00
	0.00	-.008	-.041	-.001	.009	.0013	-.000	0.00
	.05	-.008	-.036	.000	.011	.0013	-.001	.05
	.10	-.008	-.037	.000	.012	.0012	-.001	.10
	.20	-.009	-.034	.001	.015	.0012	-.000	.20
	.30	-.010	-.017	.004	.021	.0012	-.000	.30
	.40	-.011	.032	.015	.029	.0012	-.000	.40

5	-.40	-.012	.041	.017	.011	.0007	.002	-.40
	-.30	-.007	-.005	.009	.010	.0011	.001	-.30
	-.20	-.008	-.019	.006	.010	.0012	.001	-.20
	-.10	-.008	-.022	.007	.011	.0014	-.000	-.10
	-.05	-.009	-.020	.007	.011	.0014	-.000	-.05
	0.00	-.007	-.025	.006	.011	.0014	-.001	0.00
	0.00	-.006	-.026	.007	.012	.0015	-.001	0.00
	.05	-.007	-.022	.008	.013	.0014	-.001	.05
	.10	-.007	-.022	.007	.014	.0013	-.001	.10
	.20	-.007	-.019	.007	.017	.0011	-.002	.20
	.30	-.008	-.003	.010	.019	.0010	-.002	.30
	.40	-.013	.046	.017	.022	.0007	-.002	.40

10	-.40	-.019	.077	.010	.008	.0017	.001	-.40
	-.30	-.010	.024	.009	.005	.0013	.000	-.30
	-.20	-.007	.006	.009	.004	.0012	.000	-.20
	-.10	-.008	.002	.010	.006	.0012	-.000	-.10
	-.05	-.008	.004	.011	.007	.0012	-.000	-.05
	0.00	-.007	-.000	.010	.010	.0011	-.0	0.00
	0.00	-.008	-.001	.009	.011	.0009	-.000	0.00
	.05	-.008	.004	.011	.012	.0010	-.000	.05
	.10	-.008	.003	.010	.013	.0010	-.000	.10
	.20	-.008	.006	.009	.017	.0009	-.001	.20
	.30	-.009	.023	.009	.022	.0009	-.000	.30
	.40	-.018	.073	.012	.028	.0009	.000	.40

15	-.40	-.025	.121	.003	.012	.0019	-.004	-.40
	-.30	-.012	.068	-.001	.012	.0018	-.004	-.30
	-.20	-.008	.046	.002	.011	.0015	-.003	-.20
	-.10	-.007	.037	.007	.010	.0016	-.002	-.10
	-.05	-.008	.039	.007	.010	.0016	-.001	-.05
	0.00	-.007	.037	.006	.010	.0014	-.000	0.00
	0.00	-.007	.038	.005	.010	.0013	-.000	0.00
	.05	-.008	.043	.006	.008	.0012	.000	.05
	.10	-.007	.045	.004	.009	.0010	.001	.10
	.20	-.007	.051	.003	.012	.0008	.003	.20
	.30	-.012	.073	.000	.018	.0007	.004	.30
	.40	.026	.132	.004	.024	.0004	.005	.40

PHASE II FOR BODY STUDY ROTARY BALANCE DATA

SB1A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.044	.166	-.008	.025	.0009	-.007	-.40
	-.30	-.032	.122	-.008	.015	.0007	-.007	-.30
	-.20	-.030	.105	-.001	.005	.0005	-.006	-.20
	-.10	-.032	.102	.004	.000	.0003	-.004	-.10
	-.05	-.033	.103	.006	-.001	.0003	-.004	-.05
	0.00	-.034	.104	.006	.003	.0002	-.003	0.00
	0.00	-.034	.104	.007	.003	.0002	-.003	0.00
	.05	-.033	.104	.007	.003	.0000	-.002	.05
	.10	-.032	.103	.006	.005	-.0001	-.002	.10
	.20	-.030	.108	.003	.010	-.0004	.001	.20
	.30	-.032	.125	-.004	.017	-.0006	.003	.30
	.40	-.043	.173	-.005	.027	-.0009	.006	.40
25	-.40	-.049	.227	-.009	.008	.0010	-.012	-.40
	-.30	-.036	.180	-.006	.003	.0009	-.009	-.30
	-.20	-.033	.161	.001	-.000	.0007	-.007	-.20
	-.10	-.035	.154	.006	.001	.0005	-.005	-.10
	-.05	-.036	.154	.008	.001	.0003	-.004	-.05
	0.00	-.036	.154	.010	.003	.0002	-.003	0.00
	0.00	-.037	.154	.010	.004	.0002	-.003	0.00
	.05	-.037	.154	.009	.004	-.0000	-.002	.05
	.10	-.036	.155	.008	.005	-.0001	-.001	.10
	.20	-.032	.159	.006	.014	-.0005	.002	.20
	.30	-.033	.178	-.003	.026	-.0010	.007	.30
	.40	-.044	.230	-.011	.037	-.0012	.015	.40
30	-.40	-.052	.295	-.012	.007	.0013	-.023	-.40
	-.30	-.038	.237	.005	-.008	.0013	-.012	-.30
	-.20	-.036	.219	.008	-.008	.0010	-.009	-.20
	-.10	-.038	.214	.010	-.002	.0006	-.007	-.10
	-.05	-.039	.215	.011	.003	.0004	-.006	-.05
	0.00	-.039	.212	.011	.015	.0001	-.005	0.00
	0.00	-.039	.211	.012	.017	.0001	-.005	0.00
	.05	-.038	.211	.013	.016	-.0002	-.003	.05
	.10	-.036	.211	.012	.021	-.0004	-.002	.10
	.20	-.033	.218	.010	.032	-.0008	.005	.20
	.30	-.034	.252	-.005	.036	-.0010	.016	.30
	.40	-.049	.322	-.035	.038	-.0008	.031	.40
35	-.40	-.061	.376	-.037	.003	.0014	-.030	-.40
	-.30	-.046	.301	.003	-.015	.0015	-.010	-.30
	-.20	-.041	.280	.004	-.002	.0012	-.008	-.20
	-.10	-.042	.277	.002	.016	.0008	-.007	-.10
	-.05	-.042	.275	.003	.022	.0005	-.006	-.05
	0.00	-.043	.275	.005	.036	.0001	-.004	0.00
	0.00	-.044	.273	.007	.032	.0001	-.005	0.00
	.05	-.043	.276	.006	.040	-.0001	-.001	.05
	.10	-.041	.279	.006	.043	-.0004	.004	.10
	.20	-.036	.297	-.006	.040	-.0007	.017	.20
	.30	-.039	.337	-.035	.035	-.0010	.031	.30
	.40	-.058	.409	-.078	.034	-.0011	.040	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.060	.452	-.067	.007	.0020	-.034	-.40
	-.30	-.045	.391	-.034	-.014	.0019	-.027	-.30
	-.20	-.048	.344	.005	-.029	.0015	-.010	-.20
	-.10	-.051	.340	.005	.004	.0008	-.007	-.10
	-.05	-.052	.340	.003	.020	.0003	-.003	-.05
	0.00	-.050	.343	.002	.039	.0001	.003	0.00
	0.00	-.050	.342	.002	.042	.0001	.002	0.00
	.05	-.047	.348	-.006	.037	-.0001	.011	.05
	.10	-.043	.363	-.023	.032	-.0003	.021	.10
	.20	-.039	.400	-.053	.028	-.0005	.037	.20
	.30	-.044	.429	-.068	.040	-.0009	.036	.30
	.40	-.060	.523	-.140	.030	-.0007	.045	.40
45	-.40	-.068	.584	-.126	.022	.0024	-.028	-.40
	-.30	-.053	.469	-.051	-.018	.0023	-.028	-.30
	-.20	-.050	.419	-.020	-.027	.0019	-.019	-.20
	-.10	-.054	.387	.007	-.002	.0009	-.006	-.10
	-.05	-.054	.387	.005	.014	.0005	-.001	-.05
	0.00	-.053	.399	-.008	.032	.0002	.009	0.00
	0.00	-.053	.400	-.006	.030	.0002	.009	0.00
	.05	-.051	.419	-.031	.026	.0001	.022	.05
	.10	-.048	.442	-.054	.026	.0000	.031	.10
	.20	-.048	.461	-.055	.042	-.0007	.027	.20
	.30	-.048	.514	-.099	.033	-.0005	.028	.30
	.40	-.067	.608	-.141	.024	-.0003	.032	.40
50	-.40	-.072	.597	-.075	.029	.0018	-.005	-.40
	-.30	-.059	.524	-.032	-.009	.0020	-.015	-.30
	-.20	-.057	.491	-.021	-.035	.0021	-.018	-.20
	-.10	-.062	.452	.010	-.025	.0013	-.008	-.10
	-.05	-.063	.440	.017	.003	.0007	-.002	-.05
	0.00	-.062	.451	.005	.035	.0001	.006	0.00
	0.00	-.062	.448	.002	.032	.0003	.005	0.00
	.05	-.060	.476	-.017	.043	-.0000	.014	.05
	.10	-.058	.490	-.026	.048	-.0004	.016	.10
	.20	-.054	.512	-.040	.044	-.0007	.015	.20
	.30	-.055	.560	-.071	.034	-.0007	.012	.30
	.40	-.071	.634	-.109	.019	-.0003	.011	.40
55	-.40	-.086	.597	-.045	.037	.0012	.003	-.40
	-.30	-.068	.546	-.005	.007	.0017	-.005	-.30
	-.20	-.063	.521	.014	-.021	.0019	-.010	-.20
	-.10	-.063	.488	.027	-.027	.0014	-.007	-.10
	-.05	-.063	.478	.027	-.005	.0009	-.003	-.05
	0.00	-.065	.485	.026	.035	-.0000	.005	0.00
	0.00	-.065	.488	.025	.032	.0001	.004	0.00
	.05	-.065	.500	.018	.038	-.0002	.008	.05
	.10	-.064	.515	.011	.037	-.0006	.010	.10
	.20	-.062	.543	-.006	.026	-.0007	.008	.20
	.30	-.065	.574	-.037	.020	-.0008	.003	.30
	.40	-.081	.620	-.064	.012	-.0005	-.004	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.077	.617	-.043	.076	.0009	.022	-.40
	-.30	-.070	.573	-.002	.045	.0012	.012	-.30
	-.20	-.072	.546	.029	.015	.0014	.005	-.20
	-.10	-.076	.528	.041	.002	.0010	.002	-.10
	-.05	-.078	.522	.042	.004	.0006	.001	-.05
	0.00	-.078	.521	.040	.015	.0003	.002	0.00
	0.00	-.077	.521	.039	.021	.0002	.004	0.00
	.05	-.077	.530	.040	.020	-.0002	.003	.05
	.10	-.076	.537	.040	.016	-.0005	.002	.10
	.20	-.071	.554	.021	.003	-.0006	-.004	.20
	.30	-.068	.582	-.014	-.005	-.0005	-.010	.30
	.40	-.076	.619	-.058	-.015	-.0001	-.022	.40
65	-.40	-.093	.646	-.055	.090	.0005	.041	-.40
	-.30	-.078	.602	-.011	.080	.0006	.035	-.30
	-.20	-.073	.577	.024	.049	.0007	.023	-.20
	-.10	-.073	.558	.043	.022	.0005	.011	-.10
	-.05	-.074	.551	.047	.009	.0004	.004	-.05
	0.00	-.075	.548	.052	.005	.0003	.001	0.00
	0.00	-.076	.548	.050	-.000	.0004	-.002	0.00
	.05	-.076	.549	.049	-.010	.0001	-.006	.05
	.10	-.075	.550	.045	-.020	.0000	-.012	.10
	.20	-.074	.570	.030	-.031	-.0001	-.022	.20
	.30	-.076	.597	-.014	-.043	.0002	-.032	.30
	.40	-.089	.641	-.064	-.041	.0008	-.039	.40
70	-.40	-.045	.646	-.086	.045	-.0003	.027	-.40
	-.30	-.075	.632	-.006	.068	.0002	.035	-.30
	-.20	-.085	.600	.024	.038	.0004	.026	-.20
	-.10	-.091	.582	.037	.013	.0005	.011	-.10
	-.05	-.093	.575	.040	.002	.0005	.004	-.05
	0.00	-.092	.571	.038	-.005	.0005	-.003	0.00
	0.00	-.091	.574	.041	-.003	.0004	-.002	0.00
	.05	-.091	.572	.040	-.009	.0004	-.008	.05
	.10	-.090	.572	.037	-.015	.0004	-.014	.10
	.20	-.084	.590	.025	-.031	.0005	-.029	.20
	.30	-.074	.623	-.011	-.034	.0010	-.037	.30
	.40	-.048	.655	-.097	.008	.0020	-.031	.40
75	-.40	-.053	.636	-.128	.034	-.0003	.033	-.40
	-.30	-.054	.625	-.070	.019	.0001	.022	-.30
	-.20	-.060	.588	-.024	.003	.0003	.013	-.20
	-.10	-.070	.567	.003	-.001	.0004	.007	-.10
	-.05	-.069	.554	.000	-.003	.0005	.002	-.05
	0.00	-.073	.557	.000	-.000	.0006	-.001	0.00
	0.00	-.070	.545	-.002	-.001	.0006	-.002	0.00
	.05	-.068	.547	-.007	-.002	.0007	-.005	.05
	.10	-.067	.557	-.010	-.001	.0007	-.009	.10
	.20	-.061	.586	-.026	.000	.0011	-.017	.20
	.30	-.053	.627	-.069	.002	.0016	-.026	.30
	.40	-.048	.636	-.139	.012	.0025	-.035	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A1

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\alpha b/2V$
80	-.40	-.038	.632	-.153	.035	-.0003	.035	-.40
	-.30	-.047	.597	-.091	.016	.0001	.024	-.30
	-.20	-.052	.569	-.067	-.002	.0004	.014	-.20
	-.10	-.053	.522	-.060	-.007	.0006	.006	-.10
	-.05	-.054	.518	-.062	-.008	.0007	.002	-.05
	0.00	-.056	.529	-.063	-.002	.0008	-.001	0.00
	0.00	-.054	.503	-.064	-.004	.0008	-.002	0.00
	.05	-.053	.516	-.063	-.003	.0009	-.005	.05
	.10	-.053	.527	-.060	-.001	.0010	-.009	.10
	.20	-.052	.558	-.066	.005	.0013	-.017	.20
	.30	-.048	.592	-.096	.008	.0018	-.027	.30
	.40	-.038	.638	-.166	.024	.0031	-.039	.40
85	-.40	-.025	.692	-.174	.007	-.0006	.038	-.40
	-.30	-.037	.595	-.132	.010	-.0001	.027	-.30
	-.20	-.044	.562	-.106	.004	.0003	.018	-.20
	-.10	-.045	.533	-.104	-.000	.0006	.008	-.10
	-.05	-.044	.514	-.106	-.001	.0008	.003	-.05
	0.00	-.045	.504	-.111	.002	.0010	-.001	0.00
	0.00	-.044	.514	-.114	.001	.0010	-.001	0.00
	.05	-.041	.515	-.109	-.001	.0011	-.006	.05
	.10	-.041	.533	-.107	-.000	.0013	-.011	.10
	.20	-.043	.571	-.110	.004	.0016	-.020	.20
	.30	-.035	.596	-.146	.011	.0024	-.031	.30
	.40	-.025	.686	-.195	.032	.0035	-.042	.40
90	-.40	-.016	.676	-.207	.000	-.0007	.040	-.40
	-.30	-.031	.617	-.172	-.003	-.0002	.030	-.30
	-.20	-.037	.559	-.149	-.004	.0003	.020	-.20
	-.10	-.037	.510	-.147	-.006	.0007	.008	-.10
	-.05	-.038	.506	-.148	-.004	.0009	.003	-.05
	0.00	-.043	.507	-.149	.003	.0012	-.001	0.00
	0.00	-.041	.500	-.152	.004	.0012	-.001	0.00
	.05	-.038	.510	-.152	.006	.0015	-.006	.05
	.10	-.038	.509	-.147	.010	.0016	-.011	.10
	.20	-.037	.560	-.157	.015	.0023	-.023	.20
	.30	-.030	.609	-.189	.025	.0029	-.033	.30
	.40	-.019	.710	-.205	.031	.0038	-.044	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.008	.067	.007	.014	.0006	.008	-.40
	-.30	.009	.021	-.003	.004	.0006	.004	-.30
	-.20	.009	.008	-.005	-.003	.0005	.002	-.20
	-.10	.008	.009	-.004	-.006	.0005	.000	-.10
	-.05	.009	.011	-.004	-.007	.0005	-.000	-.05
	0.00	.009	.004	-.005	-.005	.0004	-.000	0.00
	0.00	.009	.004	-.005	-.005	.0004	.000	0.00
	.05	.009	.010	-.003	-.006	.0005	-.000	.05
	.10	.009	.007	-.003	-.006	.0005	.000	.10
	.20	.009	.005	-.003	-.003	.0005	.002	.20
	.30	.009	.017	-.001	.002	.0005	.004	.30
	.40	.008	.063	.010	.008	.0005	.007	.40

5	-.40	.004	.075	.012	-.006	.0005	.004	-.40
	-.30	.006	.030	.004	-.004	.0005	.002	-.30
	-.20	.008	.019	.004	-.001	.0004	.001	-.20
	-.10	.007	.020	.006	.003	.0003	.001	-.10
	-.05	.007	.022	.007	.003	.0003	.000	-.05
	0.00	.008	.015	.006	.002	.0003	-.000	0.00
	0.00	.008	.016	.006	.004	.0003	-.000	0.00
	.05	.007	.019	.007	.004	.0003	-.000	.05
	.10	.007	.018	.007	.004	.0003	-.001	.10
	.20	.008	.018	.006	.005	.0003	-.001	.20
	.30	.006	.033	.007	.006	.0003	-.001	.30
	.40	.003	.082	.015	.007	.0002	-.000	.40

10	-.40	-.001	.109	.018	-.009	.0005	.003	-.40
	-.30	.007	.058	.008	-.007	.0004	.002	-.30
	-.20	.009	.042	.008	-.004	.0005	.001	-.20
	-.10	.009	.040	.010	-.000	.0005	.001	-.10
	-.05	.008	.041	.011	.001	.0005	.000	-.05
	0.00	.009	.034	.010	.003	.0004	.000	0.00
	0.00	.009	.035	.010	.003	.0004	.000	0.00
	.05	.008	.041	.011	.003	.0004	.000	.05
	.10	.008	.040	.011	.005	.0004	.000	.10
	.20	.009	.043	.009	.006	.0002	.001	.20
	.30	.008	.059	.008	.007	-.0000	.002	.30
	.40	.000	.110	.016	.009	-.0003	.003	.40

15	-.40	-.003	.148	.014	-.001	.0006	-.000	-.40
	-.30	.008	.102	.006	-.002	.0006	-.001	-.30
	-.20	.008	.085	.008	-.001	.0006	-.001	-.20
	-.10	.006	.085	.011	-.001	.0005	-.001	-.10
	-.05	.006	.086	.012	-.001	.0005	-.000	-.05
	0.00	.007	.081	.011	.002	.0005	.000	0.00
	0.00	.007	.080	.011	.001	.0005	.000	0.00
	.05	.005	.084	.012	.002	.0003	.001	.05
	.10	.007	.084	.011	.003	.0002	.001	.10
	.20	.008	.087	.008	.005	.0001	.002	.20
	.30	.006	.106	.005	.008	-.0002	.003	.30
	.40	-.005	.156	.012	.011	-.0004	.005	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.006	.218	.008	-.005	.0009	-.008	-.40
	-.30	.006	.165	.006	-.005	.0009	-.006	-.30
	-.20	.007	.147	.008	-.003	.0008	-.003	-.20
	-.10	.004	.145	.012	-.001	.0007	-.002	-.10
	-.05	.002	.146	.014	-.000	.0006	-.001	-.05
	0.00	.004	.141	.014	.001	.0005	-.000	0.00
	0.00	.004	.144	.013	.001	.0004	-.000	0.00
	.05	.003	.145	.014	-.001	.0003	.001	.05
	.10	.004	.145	.013	.001	.0001	.002	.10
	.20	.006	.150	.009	.004	-.0003	.004	.20
	.30	.004	.165	.003	.007	-.0006	.006	.30
	.40	-.009	.220	.006	.012	-.0010	.010	.40
25	-.40	-.018	.290	.008	-.005	.0011	-.015	-.40
	-.30	.000	.221	.010	-.008	.0011	-.009	-.30
	-.20	.005	.198	.013	-.008	.0010	-.005	-.20
	-.10	.003	.192	.017	-.006	.0008	-.002	-.10
	-.05	.002	.189	.017	-.004	.0006	-.001	-.05
	0.00	.005	.184	.017	.001	.0005	-.001	0.00
	0.00	.005	.185	.018	.001	.0004	-.000	0.00
	.05	.001	.190	.018	.002	.0002	.001	.05
	.10	.003	.192	.016	.003	.0001	.003	.10
	.20	.005	.196	.013	.006	-.0005	.005	.20
	.30	.001	.222	.009	.008	-.0008	.009	.30
	.40	-.017	.284	.009	.011	-.0013	.014	.40
30	-.40	-.017	.372	-.006	-.007	.0010	-.029	-.40
	-.30	-.001	.283	.014	-.018	.0011	-.014	-.30
	-.20	.002	.255	.022	-.021	.0011	-.006	-.20
	-.10	.001	.250	.024	-.014	.0009	-.002	-.10
	-.05	-.001	.251	.024	-.009	.0007	-.001	-.05
	0.00	.003	.245	.022	-.000	.0005	-.001	0.00
	0.00	.003	.243	.023	.003	.0005	-.001	0.00
	.05	.001	.245	.024	.004	.0001	.001	.05
	.10	.002	.243	.023	.008	-.0002	.002	.10
	.20	.003	.256	.023	.019	-.0008	.004	.20
	.30	-.002	.292	.020	.026	-.0015	.011	.30
	.40	-.021	.372	-.001	.019	-.0016	.026	.40
35	-.40	-.027	.486	-.056	.003	.0016	-.042	-.40
	-.30	-.005	.379	.005	-.021	.0015	-.028	-.30
	-.20	-.001	.327	.025	-.036	.0015	-.010	-.20
	-.10	-.004	.310	.030	-.025	.0011	-.003	-.10
	-.05	-.005	.307	.030	-.013	.0008	-.001	-.05
	0.00	-.002	.299	.025	.006	.0005	-.002	0.00
	0.00	-.002	.304	.027	.001	.0005	-.000	0.00
	.05	-.005	.309	.032	.013	.0001	.001	.05
	.10	-.004	.309	.032	.023	-.0003	.002	.10
	.20	-.002	.326	.029	.035	-.0010	.008	.20
	.30	-.003	.375	.007	.026	-.0014	.025	.30
	.40	-.025	.481	-.048	.005	-.0014	.041	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.029	.606	-.075	.006	.0016	-.037	-.40
	-.30	-.009	.489	-.031	-.016	.0018	-.036	-.30
	-.20	-.003	.439	-.012	-.022	.0016	-.036	-.20
	-.10	-.010	.391	.032	-.032	.0013	-.011	-.10
	-.05	-.012	.381	.039	-.022	.0009	-.004	-.05
	0.00	-.010	.371	.035	.007	.0005	-.002	0.00
	0.00	-.010	.371	.039	.004	.0005	-.001	0.00
	.05	-.012	.377	.041	.023	-.0001	.002	.05
	.10	-.008	.385	.028	.032	-.0004	.011	.10
	.20	-.003	.435	-.003	.030	-.0007	.033	.20
	.30	-.009	.483	-.027	.020	-.0011	.034	.30
	.40	-.031	.621	-.097	-.018	-.0007	.044	.40
45	-.40	-.040	.658	-.011	-.014	.0012	.001	-.40
	-.30	-.013	.622	-.037	-.019	.0019	-.021	-.30
	-.20	-.011	.532	-.005	-.042	.0019	-.027	-.20
	-.10	-.011	.488	.003	-.034	.0016	-.027	-.10
	-.05	-.015	.462	.031	-.021	.0010	-.015	-.05
	0.00	-.016	.443	.050	.011	.0004	.002	0.00
	0.00	-.015	.436	.048	.014	.0004	.002	0.00
	.05	-.015	.469	.027	.032	.0001	.018	.05
	.10	-.012	.495	.007	.042	-.0002	.028	.10
	.20	-.010	.544	-.012	.038	-.0006	.028	.20
	.30	-.012	.630	-.049	.004	-.0006	.027	.30
	.40	-.036	.684	-.034	-.011	-.0010	.010	.40
50	-.40	-.042	.688	-.020	.016	.0007	.009	-.40
	-.30	-.022	.644	-.006	-.013	.0016	-.004	-.30
	-.20	-.016	.604	-.011	-.034	.0019	-.019	-.20
	-.10	-.017	.537	.025	-.052	.0019	-.020	-.10
	-.05	-.019	.505	.044	-.035	.0013	-.012	-.05
	0.00	-.017	.484	.060	.021	.0003	.002	0.00
	0.00	-.016	.476	.057	.025	.0003	.003	0.00
	.05	-.018	.507	.041	.054	-.0002	.015	.05
	.10	-.016	.532	.026	.058	-.0004	.020	.10
	.20	-.016	.606	-.007	.028	-.0004	.019	.20
	.30	-.021	.641	-.014	.003	-.0007	.007	.30
	.40	-.044	.695	-.032	-.032	-.0007	-.003	.40
55	-.40	-.045	.690	-.020	.048	.0002	.019	-.40
	-.30	-.028	.643	.018	.013	.0012	.001	-.30
	-.20	-.026	.606	.046	-.019	.0018	-.012	-.20
	-.10	-.028	.552	.072	-.037	.0016	-.015	-.10
	-.05	-.028	.532	.078	-.029	.0012	-.009	-.05
	0.00	-.025	.529	.078	.019	.0001	.003	0.00
	0.00	-.022	.513	.073	.019	.0002	.003	0.00
	.05	-.027	.530	.077	.041	-.0004	.014	.05
	.10	-.026	.552	.065	.039	-.0007	.016	.10
	.20	-.024	.615	.035	.014	-.0007	.010	.20
	.30	-.028	.641	.015	-.018	-.0007	-.002	.30
	.40	-.047	.681	-.018	-.042	-.0005	-.015	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.046	.678	-.011	.066	-.0000	.035	-.40
	-.30	-.034	.638	.036	.032	.0009	.015	-.30
	-.20	-.033	.616	.063	.003	.0014	.000	-.20
	-.10	-.036	.587	.089	-.023	.0014	-.008	-.10
	-.05	-.037	.576	.089	-.025	.0011	-.008	-.05
	0.00	-.035	.565	.095	.012	.0001	.003	0.00
	0.00	-.034	.565	.095	.011	.0001	.003	0.00
	.05	-.038	.576	.096	.030	-.0003	.010	.05
	.10	-.036	.593	.089	.025	-.0007	.009	.10
	.20	-.034	.616	.064	-.007	-.0007	-.003	.20
	.30	-.035	.645	.030	-.040	-.0006	-.019	.30
	.40	-.049	.676	-.016	-.079	-.0003	-.041	.40
65	-.40	-.040	.742	-.039	.040	-.0007	.033	-.40
	-.30	-.041	.682	.033	.068	.0003	.044	-.30
	-.20	-.038	.648	.079	.031	.0009	.021	-.20
	-.10	-.041	.627	.097	.011	.0009	.009	-.10
	-.05	-.041	.612	.099	.008	.0007	.004	-.05
	0.00	-.039	.612	.098	.004	.0002	.001	0.00
	0.00	-.038	.599	.097	.004	.0002	.002	0.00
	.05	-.040	.610	.100	-.005	.0000	-.003	.05
	.10	-.039	.621	.097	-.013	-.0002	-.009	.10
	.20	-.038	.640	.077	-.031	-.0005	-.020	.20
	.30	-.041	.680	.023	-.071	-.0001	-.041	.30
	.40	-.040	.746	-.051	-.048	.0008	-.033	.40
70	-.40	-.019	.720	-.086	.024	-.0000	.037	-.40
	-.30	-.026	.693	.000	.027	.0002	.029	-.30
	-.20	-.042	.656	.060	.046	.0004	.037	-.20
	-.10	-.045	.635	.075	.022	.0005	.018	-.10
	-.05	-.047	.633	.081	.009	.0005	.009	-.05
	0.00	-.041	.626	.075	.001	.0005	.000	0.00
	0.00	-.042	.625	.081	-.006	.0005	-.003	0.00
	.05	-.046	.619	.078	-.014	.0004	-.010	.05
	.10	-.046	.628	.074	-.026	.0003	-.019	.10
	.20	-.042	.648	.055	-.052	.0004	-.039	.20
	.30	-.021	.686	-.018	-.023	.0010	-.026	.30
	.40	-.019	.713	-.093	-.023	.0014	-.037	.40
75	-.40	-.017	.682	-.139	.013	.0001	.039	-.40
	-.30	-.013	.672	-.054	.008	.0005	.026	-.30
	-.20	-.018	.633	.002	.001	.0005	.016	-.20
	-.10	-.029	.617	.039	.005	.0006	.011	-.10
	-.05	-.028	.609	.040	.002	.0006	.005	-.05
	0.00	-.028	.604	.037	.001	.0006	.000	0.00
	0.00	-.029	.596	.036	-.003	.0006	-.001	0.00
	.05	-.027	.598	.029	-.005	.0007	-.005	.05
	.10	-.023	.602	.023	-.003	.0008	-.009	.10
	.20	-.015	.624	-.006	-.007	.0009	-.017	.20
	.30	-.010	.653	-.060	-.015	.0014	-.028	.30
	.40	-.015	.691	-.143	-.017	.0024	-.041	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.004	.746	-.144	.012	.0003	.042	-.40
	-.30	-.006	.659	-.076	.005	.0005	.028	-.30
	-.20	-.007	.631	-.050	-.006	.0008	.017	-.20
	-.10	-.010	.594	-.040	-.011	.0009	.007	-.10
	-.05	-.010	.574	-.037	-.010	.0010	.003	-.05
	0.00	-.010	.570	-.034	-.007	.0010	-.001	0.00
	0.00	-.009	.570	-.039	-.009	.0011	-.002	0.00
	.05	-.009	.574	-.035	-.009	.0011	-.005	.05
	.10	-.009	.578	-.034	-.009	.0011	-.010	.10
	.20	-.006	.620	-.051	-.009	.0013	-.019	.20
	.30	-.003	.641	-.084	-.014	.0019	-.031	.30
	.40	-.001	.762	-.175	.003	.0031	-.044	.40
85	-.40	-.001	.781	-.160	-.011	-.0001	.043	-.40
	-.30	.002	.679	-.133	-.006	.0004	.032	-.30
	-.20	-.002	.634	-.089	-.000	.0007	.022	-.20
	-.10	.000	.593	-.083	-.001	.0010	.011	-.10
	-.05	.002	.580	-.084	-.002	.0012	.005	-.05
	0.00	.001	.573	-.089	-.000	.0013	.000	0.00
	0.00	.001	.567	-.087	.001	.0011	.000	0.00
	.05	.001	.573	-.085	-.003	.0013	-.005	.05
	.10	.001	.586	-.085	-.005	.0015	-.011	.10
	.20	-.002	.629	-.094	-.006	.0018	-.022	.20
	.30	.003	.683	-.142	-.002	.0026	-.034	.30
	.40	.001	.774	-.169	.005	.0032	-.044	.40
90	-.40	.014	.769	-.175	-.010	.0002	.045	-.40
	-.30	.012	.731	-.181	-.018	.0007	.039	-.30
	-.20	.006	.632	-.136	-.016	.0009	.024	-.20
	-.10	.007	.587	-.133	-.017	.0012	.011	-.10
	-.05	.007	.571	-.128	-.015	.0014	.005	-.05
	0.00	.005	.573	-.132	-.010	.0016	.000	0.00
	0.00	.009	.559	-.126	-.006	.0015	.000	0.00
	.05	.007	.564	-.130	-.006	.0017	-.005	.05
	.10	.008	.576	-.132	-.002	.0019	-.010	.10
	.20	.008	.622	-.141	.004	.0024	-.024	.20
	.30	.015	.705	-.178	.011	.0032	-.037	.30
	.40	.018	.770	-.171	.018	.0038	-.045	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A1

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$

0	-.40	-.023	.031	-.012	.022	.0006	-.001	-.40
	-.30	-.024	-.010	-.014	.015	.0005	-.002	-.30
	-.20	-.024	-.019	-.008	.010	.0004	-.002	-.20
	-.10	-.025	-.016	-.002	.007	.0003	-.002	-.10
	-.05	-.025	-.013	-.000	.006	.0003	-.002	-.05
	0.00	-.025	-.015	.000	.007	.0003	-.002	0.00
	0.00	-.024	-.015	.000	.007	.0002	-.002	0.00
	.05	-.024	-.015	.001	.004	.0003	-.003	.05
	.10	-.024	-.017	-.001	.005	.0003	-.002	.10
	.20	-.024	-.019	-.008	.009	.0002	-.002	.20
	.30	-.024	-.006	-.013	.014	.0003	-.002	.30
	.40	-.023	.040	-.011	.021	.0004	-.001	.40

5	-.40	-.026	.035	.009	.016	.0004	.000	-.40
	-.30	-.023	-.003	.003	.009	.0003	-.000	-.30
	-.20	-.023	-.011	.005	.007	.0003	-.001	-.20
	-.10	-.023	-.007	.009	.006	.0004	-.002	-.10
	-.05	-.023	-.005	.011	.006	.0003	-.002	-.05
	0.00	-.023	-.010	.010	.009	.0004	-.002	0.00
	0.00	-.023	-.009	.010	.008	.0004	-.003	0.00
	.05	-.023	-.007	.011	.010	.0004	-.003	.05
	.10	-.023	-.009	.010	.012	.0003	-.003	.10
	.20	-.022	-.011	.006	.016	.0002	-.003	.20
	.30	-.023	-.001	.004	.019	.0002	-.004	.30
	.40	-.026	.041	.009	.025	-.0000	-.004	.40

10	-.40	-.027	.066	.009	.022	.0004	-.003	-.40
	-.30	-.022	.024	.006	.013	.0004	-.003	-.30
	-.20	-.022	.012	.010	.007	.0004	-.003	-.20
	-.10	-.024	.014	.016	.004	.0003	-.003	-.10
	-.05	-.025	.016	.018	.005	.0003	-.003	-.05
	0.00	-.024	.014	.018	.010	.0003	-.003	0.00
	0.00	-.024	.016	.018	.010	.0003	-.003	0.00
	.05	-.024	.017	.019	.008	.0003	-.003	.05
	.10	-.024	.014	.017	.010	.0002	-.003	.10
	.20	-.022	.013	.011	.017	.0001	-.003	.20
	.30	-.021	.024	.005	.023	-.0001	-.001	.30
	.40	-.027	.066	.008	.032	-.0005	-.000	.40

15	-.40	-.030	.111	.016	.027	.0006	-.006	-.40
	-.30	-.023	.069	.011	.015	.0005	-.005	-.30
	-.20	-.023	.058	.017	.008	.0005	-.004	-.20
	-.10	-.026	.061	.022	.005	.0003	-.004	-.10
	-.05	-.027	.063	.025	.005	.0003	-.004	-.05
	0.00	-.027	.059	.024	.009	.0002	-.003	0.00
	0.00	-.027	.061	.024	.010	.0002	-.003	0.00
	.05	-.026	.059	.024	.010	.0001	-.003	.05
	.10	-.025	.059	.023	.012	.0000	-.002	.10
	.20	-.023	.058	.017	.019	-.0003	-.002	.20
	.30	-.022	.071	.011	.027	-.0006	.000	.30
	.40	-.031	.117	.014	.036	-.0010	.003	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.036	.174	.022	.017	.0011	-.013	-.40
	-.30	-.026	.129	.020	.009	.0009	-.009	-.30
	-.20	-.027	.118	.025	.006	.0007	-.006	-.20
	-.10	-.030	.120	.031	.006	.0005	-.005	-.10
	-.05	-.032	.121	.034	.008	.0003	-.004	-.05
	0.00	-.031	.115	.034	.011	.0002	-.004	0.00
	0.00	-.031	.117	.033	.011	.0002	-.004	0.00
	.05	-.031	.116	.033	.010	-.0000	-.003	.05
	.10	-.029	.116	.032	.012	-.0002	-.002	.10
	.20	-.025	.116	.028	.019	-.0005	.000	.20
	.30	-.025	.128	.020	.026	-.0009	.004	.30
	.40	-.036	.178	.022	.037	-.0012	.009	.40
25	-.40	-.041	.257	.034	.023	.0009	-.026	-.40
	-.30	-.029	.191	.039	.006	.0010	-.015	-.30
	-.20	-.029	.169	.042	-.003	.0010	-.009	-.20
	-.10	-.032	.165	.044	.001	.0006	-.007	-.10
	-.05	-.033	.165	.046	.004	.0004	-.006	-.05
	0.00	-.034	.164	.047	.012	.0002	-.004	0.00
	0.00	-.034	.164	.046	.018	.0001	-.005	0.00
	.05	-.034	.165	.047	.015	-.0001	-.004	.05
	.10	-.033	.166	.046	.020	-.0004	-.002	.10
	.20	-.028	.170	.045	.030	-.0009	.003	.20
	.30	-.027	.191	.038	.035	-.0013	.011	.30
	.40	-.038	.259	.025	.034	-.0013	.025	.40
30	-.40	-.044	.380	-.015	.030	.0015	-.049	-.40
	-.30	-.031	.278	.045	-.002	.0014	-.032	-.30
	-.20	-.033	.240	.061	-.023	.0013	-.014	-.20
	-.10	-.038	.231	.061	-.017	.0009	-.006	-.10
	-.05	-.040	.230	.061	-.006	.0006	-.005	-.05
	0.00	-.040	.229	.061	.015	.0001	-.005	0.00
	0.00	-.040	.228	.061	.014	.0001	-.005	0.00
	.05	-.038	.229	.060	.026	-.0003	-.004	.05
	.10	-.036	.231	.061	.038	-.0006	-.002	.10
	.20	-.029	.243	.060	.044	-.0011	.001	.20
	.30	-.029	.284	.036	.033	-.0012	.009	.30
	.40	-.044	.395	-.022	.015	-.0010	.045	.40
35	-.40	-.054	.504	-.015	.041	.0012	-.053	-.40
	-.30	-.035	.422	-.009	.016	.0016	-.053	-.30
	-.20	-.032	.340	.049	-.019	.0015	-.040	-.20
	-.10	-.038	.308	.071	-.042	.0013	-.013	-.10
	-.05	-.042	.300	.073	-.030	.0009	-.006	-.05
	0.00	-.043	.292	.076	.013	.0002	-.005	0.00
	0.00	-.042	.295	.073	.016	.0002	-.005	0.00
	.05	-.043	.298	.073	.042	-.0003	-.002	.05
	.10	-.038	.306	.067	.050	-.0006	.009	.10
	.20	-.033	.344	.051	.043	-.0010	.032	.20
	.30	-.035	.425	-.010	.016	-.0010	.046	.30
	.40	-.052	.516	-.026	.000	-.0009	.052	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.062	.574	.060	.046	.0006	-.034	-.40
	-.30	-.041	.515	.044	-.007	.0014	-.036	-.30
	-.20	-.038	.470	.021	-.017	.0018	-.047	-.20
	-.10	-.039	.423	.032	-.027	.0013	-.046	-.10
	-.05	-.044	.383	.066	-.033	.0010	-.023	-.05
	0.00	-.050	.362	.091	.020	.0003	-.006	0.00
	0.00	-.050	.358	.088	.021	.0003	-.007	0.00
	.05	-.045	.387	.068	.042	-.0002	.016	.05
	.10	-.040	.420	.040	.041	-.0003	.038	.10
	.20	-.038	.465	.034	.039	-.0008	.038	.20
	.30	-.041	.515	.049	.033	-.0008	.032	.30
	.40	-.060	.601	.035	-.019	-.0004	.040	.40
45	-.40	-.054	.629	.081	.039	.0006	-.004	-.40
	-.30	-.044	.585	.072	-.009	.0015	-.008	-.30
	-.20	-.045	.563	.051	-.049	.0019	-.014	-.20
	-.10	-.052	.534	.030	-.036	.0016	-.048	-.10
	-.05	-.054	.490	.046	-.038	.0011	-.038	-.05
	0.00	-.057	.433	.099	.013	.0003	.001	0.00
	0.00	-.057	.441	.094	.016	.0003	.003	0.00
	.05	-.052	.489	.051	.051	-.0001	.034	.05
	.10	-.051	.532	.034	.046	-.0002	.042	.10
	.20	-.047	.550	.065	.062	-.0008	.017	.20
	.30	-.047	.596	.076	.040	-.0009	.004	.30
	.40	-.060	.641	.085	.010	-.0004	.001	.40
50	-.40	-.071	.675	.072	.074	-.0002	.006	-.40
	-.30	-.053	.639	.077	.031	.0007	-.008	-.30
	-.20	-.053	.602	.084	-.013	.0014	-.020	-.20
	-.10	-.058	.587	.071	-.039	.0016	-.027	-.10
	-.05	-.059	.556	.070	-.050	.0015	-.031	-.05
	0.00	-.062	.488	.115	.030	.0000	.002	0.00
	0.00	-.062	.490	.109	.022	.0001	-.001	0.00
	.05	-.060	.572	.070	.053	-.0000	.030	.05
	.10	-.060	.587	.077	.050	-.0003	.022	.10
	.20	-.054	.610	.085	.033	-.0007	.011	.20
	.30	-.053	.645	.085	.001	-.0004	.001	.30
	.40	-.067	.685	.070	-.030	.0000	-.012	.40
55	-.40	-.072	.689	.062	.096	-.0003	.022	-.40
	-.30	-.056	.659	.089	.049	.0004	.001	-.30
	-.20	-.055	.627	.096	.007	.0010	-.013	-.20
	-.10	-.062	.597	.105	-.033	.0014	-.026	-.10
	-.05	-.064	.559	.124	-.057	.0013	-.027	-.05
	0.00	-.064	.517	.145	.025	-.0000	.002	0.00
	0.00	-.065	.511	.143	.030	-.0001	.004	0.00
	.05	-.063	.568	.115	.062	-.0005	.024	.05
	.10	-.060	.606	.100	.042	-.0004	.018	.10
	.20	-.056	.632	.097	.011	-.0004	.005	.20
	.30	-.055	.654	.078	-.019	.0000	-.010	.30
	.40	-.072	.690	.055	-.032	.0002	-.027	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.077	.665	.044	.090	-.0004	.040	-.40
	-.30	-.063	.662	.094	.067	.0003	.021	-.30
	-.20	-.060	.636	.121	.022	.0008	.000	-.20
	-.10	-.064	.599	.135	-.013	.0012	-.017	-.10
	-.05	-.067	.570	.147	-.035	.0011	-.022	-.05
	0.00	-.068	.549	.155	.024	-.0000	.005	0.00
	0.00	-.068	.544	.151	.026	.0000	.004	0.00
	.05	-.067	.578	.143	.041	-.0003	.017	.05
	.10	-.065	.600	.133	.023	-.0003	.011	.10
	.20	-.061	.631	.119	-.008	-.0003	-.007	.20
	.30	-.060	.665	.085	-.034	.0001	-.029	.30
	.40	-.071	.664	.034	-.037	.0002	-.043	.40
65	-.40	-.049	.656	-.001	.059	-.0001	.036	-.40
	-.30	-.060	.660	.084	.077	.0002	.041	-.30
	-.20	-.064	.626	.121	.041	.0006	.021	-.20
	-.10	-.072	.603	.142	.008	.0007	.002	-.10
	-.05	-.076	.584	.149	-.011	.0007	-.008	-.05
	0.00	-.078	.576	.153	.010	.0003	-.001	0.00
	0.00	-.078	.567	.152	.013	.0002	.001	0.00
	.05	-.073	.586	.149	.013	-.0002	.001	.05
	.10	-.071	.594	.139	-.005	-.0002	-.010	.10
	.20	-.065	.621	.119	-.029	-.0000	-.031	.20
	.30	-.062	.648	.082	-.040	.0002	-.043	.30
	.40	-.053	.649	-.003	-.013	.0006	-.043	.40
70	-.40	-.053	.650	-.043	.051	.0002	.040	-.40
	-.30	-.049	.632	.038	.039	.0004	.028	-.30
	-.20	-.064	.623	.109	.051	.0004	.034	-.20
	-.10	-.068	.601	.126	.024	.0004	.016	-.10
	-.05	-.071	.596	.134	.012	.0003	.006	-.05
	0.00	-.070	.593	.132	.006	.0003	-.001	0.00
	0.00	-.071	.598	.130	-.000	.0004	-.006	0.00
	.05	-.073	.606	.132	-.012	.0002	-.014	.05
	.10	-.070	.606	.126	-.021	.0002	-.024	.10
	.20	-.066	.621	.106	-.034	.0002	-.040	.20
	.30	-.050	.630	.041	-.009	.0005	-.034	.30
	.40	-.051	.630	-.049	-.003	.0011	-.046	.40
75	-.40	-.025	.736	-.091	.044	.0002	.049	-.40
	-.30	-.037	.628	.009	.035	.0004	.031	-.30
	-.20	-.053	.608	.057	.013	.0005	.016	-.20
	-.10	-.073	.604	.101	.015	.0003	.014	-.10
	-.05	-.074	.597	.099	.004	.0004	.004	-.05
	0.00	-.076	.596	.095	.001	.0005	-.004	0.00
	0.00	-.076	.604	.097	.002	.0004	-.003	0.00
	.05	-.073	.598	.098	-.011	.0004	-.012	.05
	.10	-.073	.605	.098	-.017	.0005	-.021	.10
	.20	-.053	.601	.052	-.003	.0006	-.023	.20
	.30	-.037	.634	-.001	-.003	.0010	-.036	.30
	.40	-.028	.745	-.112	.012	.0020	-.053	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.035	.746	-.100	.026	-.0001	.050	-.40
	-.30	-.032	.631	-.039	.025	.0002	.035	-.30
	-.20	-.041	.613	.000	.013	.0005	.020	-.20
	-.10	-.050	.576	.017	.004	.0007	.007	-.10
	-.05	-.052	.552	.021	.004	.0007	.002	-.05
	0.00	-.054	.568	.013	.007	.0007	-.002	0.00
	0.00	-.054	.560	.016	.009	.0006	-.002	0.00
	.05	-.054	.566	.018	.005	.0007	-.007	.05
	.10	-.051	.586	.017	.005	.0007	-.012	.10
	.20	-.042	.622	-.006	-.000	.0010	-.025	.20
	.30	-.031	.628	-.041	-.003	.0015	-.039	.30
	.40	-.025	.745	-.128	.019	.0024	-.053	.40
85	-.40	-.010	.753	-.100	.021	-.0000	.049	-.40
	-.30	-.022	.717	-.088	.015	.0003	.040	-.30
	-.20	-.035	.614	-.043	.014	.0005	.024	-.20
	-.10	-.041	.576	-.034	.007	.0007	.010	-.10
	-.05	-.042	.564	-.037	.005	.0008	.004	-.05
	0.00	-.043	.551	-.044	.008	.0009	-.002	0.00
	0.00	-.042	.552	-.048	.007	.0009	-.002	0.00
	.05	-.042	.564	-.036	.005	.0010	-.008	.05
	.10	-.041	.582	-.040	.004	.0011	-.015	.10
	.20	-.035	.605	-.051	.002	.0014	-.028	.20
	.30	-.024	.711	-.088	.010	.0021	-.043	.30
	.40	-.012	.746	-.113	.022	.0027	-.052	.40
90	-.40	-.015	.763	-.109	.002	-.0001	.050	-.40
	-.30	-.022	.693	-.099	.003	.0002	.039	-.30
	-.20	-.028	.625	-.092	.001	.0005	.027	-.20
	-.10	-.030	.563	-.088	.003	.0008	.011	-.10
	-.05	-.031	.549	-.085	.005	.0010	.004	-.05
	0.00	-.036	.552	-.089	.008	.0012	-.002	0.00
	0.00	-.035	.559	-.089	.008	.0010	-.001	0.00
	.05	-.033	.549	-.088	.009	.0012	-.007	.05
	.10	-.031	.566	-.091	.011	.0014	-.013	.10
	.20	-.028	.625	-.102	.017	.0018	-.028	.20
	.30	-.019	.726	-.126	.022	.0025	-.044	.30
	.40	-.011	.761	-.123	.026	.0030	-.052	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.009	.075	.025	.020	.0006	.000	-.40
	-.30	.008	.023	.000	.015	.0007	-.000	-.30
	-.20	.008	.009	-.007	.011	.0008	-.000	-.20
	-.10	.008	.010	-.007	.009	.0008	.000	-.10
	-.05	.008	.012	-.007	.008	.0007	.000	-.05
	0.00	.008	.005	-.009	.009	.0007	.000	0.00
	0.00	.009	.005	-.009	.008	.0007	.000	0.00
	.05	.009	.009	-.007	.008	.0007	-.000	.05
	.10	.009	.007	-.007	.008	.0006	-.000	.10
	.20	.008	.007	-.006	.008	.0006	-.000	.20
	.30	.008	.023	.003	.008	.0007	-.001	.30
	.40	.005	.079	.028	.010	.0006	-.001	.40

5	-.40	.004	.091	.036	.001	.0007	.001	-.40
	-.30	.008	.036	.013	.001	.0007	.001	-.30
	-.20	.009	.020	.005	.004	.0007	.000	-.20
	-.10	.009	.020	.005	.007	.0007	.000	-.10
	-.05	.008	.021	.005	.008	.0007	.000	-.05
	0.00	.009	.015	.003	.009	.0006	.000	0.00
	0.00	.009	.015	.003	.009	.0006	.000	0.00
	.05	.009	.019	.006	.008	.0005	-.000	.05
	.10	.009	.017	.005	.009	.0006	-.001	.10
	.20	.009	.019	.007	.011	.0006	-.002	.20
	.30	.007	.037	.015	.013	.0004	-.002	.30
	.40	.001	.097	.038	.017	.0003	-.003	.40

10	-.40	.001	.124	.031	-.005	.0006	-.002	-.40
	-.30	.010	.068	.012	-.002	.0007	-.001	-.30
	-.20	.012	.049	.010	.001	.0008	-.000	-.20
	-.10	.010	.048	.014	.004	.0007	.000	-.10
	-.05	.009	.049	.016	.006	.0007	-.000	-.05
	0.00	.010	.044	.014	.008	.0006	.000	0.00
	0.00	.010	.044	.014	.008	.0006	.000	0.00
	.05	.009	.050	.016	.006	.0006	.000	.05
	.10	.010	.049	.015	.008	.0006	.000	.10
	.20	.011	.052	.013	.011	.0003	.000	.20
	.30	.009	.070	.012	.013	.0001	.000	.30
	.40	-.000	.129	.030	.016	-.0002	.000	.40

15	-.40	-.004	.179	.043	-.002	.0009	-.006	-.40
	-.30	.009	.120	.023	-.003	.0009	-.004	-.30
	-.20	.011	.102	.021	-.000	.0010	-.002	-.20
	-.10	.010	.101	.024	.005	.0009	-.001	-.10
	-.05	.009	.100	.025	.008	.0008	-.001	-.05
	0.00	.010	.093	.023	.010	.0007	-.000	0.00
	0.00	.011	.092	.023	.010	.0007	-.000	0.00
	.05	.009	.097	.025	.011	.0006	.000	.05
	.10	.010	.096	.024	.012	.0005	.000	.10
	.20	.011	.099	.022	.015	.0001	.001	.20
	.30	.009	.119	.022	.019	-.0003	.001	.30
	.40	-.005	.180	.040	.023	-.0009	.003	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.012	.283	.051	-.007	.0010	-.017	-.40
	-.30	.007	.201	.044	-.016	.0012	-.010	-.30
	-.20	.010	.163	.043	-.017	.0012	-.005	-.20
	-.10	.009	.159	.043	-.014	.0010	-.002	-.10
	-.05	.007	.160	.044	-.012	.0009	-.001	-.05
	0.00	.008	.151	.042	-.005	.0007	-.001	0.00
	0.00	.008	.153	.042	-.006	.0007	-.001	0.00
	.05	.007	.157	.045	-.003	.0005	-.000	.05
	.10	.009	.156	.044	.003	.0002	.001	.10
	.20	.010	.165	.044	.019	-.0004	.006	.20
	.30	.007	.199	.044	.033	-.0009	.016	.30
	.40	-.011	.281	.052	.043	-.0013	.031	.40
25	-.40	-.017	.371	.030	.007	.0008	-.035	-.40
	-.30	.006	.276	.046	-.008	.0012	-.026	-.30
	-.20	.007	.227	.058	-.028	.0013	-.012	-.20
	-.10	.004	.220	.062	-.029	.0013	-.002	-.10
	-.05	.002	.218	.063	-.021	.0010	-.001	-.05
	0.00	.005	.212	.062	-.006	.0007	-.001	0.00
	0.00	.004	.209	.061	-.008	.0008	-.001	0.00
	.05	.003	.214	.064	.005	.0004	.000	.05
	.10	.005	.213	.064	.017	-.0000	.001	.10
	.20	.007	.225	.064	.029	-.0007	.011	.20
	.30	.006	.275	.048	.029	-.0009	.032	.30
	.40	-.017	.383	.016	.023	-.0009	.055	.40
30	-.40	-.022	.519	.033	.034	.0003	-.054	-.40
	-.30	.004	.418	.025	.003	.0012	-.047	-.30
	-.20	.008	.333	.064	-.027	.0015	-.036	-.20
	-.10	.004	.295	.080	-.048	.0015	-.012	-.10
	-.05	.001	.286	.082	-.039	.0012	-.003	-.05
	0.00	.003	.271	.080	-.001	.0006	-.001	0.00
	0.00	.003	.269	.078	-.001	.0006	-.001	0.00
	.05	.000	.281	.084	.023	.0000	.001	.05
	.10	.004	.288	.083	.039	-.0004	.009	.10
	.20	.008	.325	.074	.033	-.0009	.034	.20
	.30	.004	.435	.011	-.003	-.0007	.059	.30
	.40	-.022	.560	-.002	-.009	-.0008	.079	.40
35	-.40	-.030	.619	.079	.047	.0000	-.053	-.40
	-.30	-.002	.501	.095	-.032	.0012	-.027	-.30
	-.20	.004	.465	.041	-.011	.0017	-.055	-.20
	-.10	.005	.395	.074	-.045	.0016	-.041	-.10
	-.05	.000	.364	.088	-.052	.0014	-.016	-.05
	0.00	.000	.339	.099	.010	.0005	-.003	0.00
	0.00	.000	.337	.098	.003	.0005	-.002	0.00
	.05	.001	.360	.091	.044	-.0001	.016	.05
	.10	.006	.391	.078	.045	-.0003	.038	.10
	.20	.005	.463	.041	.006	-.0003	.059	.20
	.30	-.003	.526	.067	.005	-.0006	.055	.30
	.40	-.028	.652	.060	-.028	-.0007	.073	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.035	.681	.149	.009	-.0001	-.010	-.40
	-.30	-.011	.617	.121	-.052	.0014	-.008	-.30
	-.20	.001	.552	.095	-.092	.0022	-.013	-.20
	-.10	-.003	.499	.077	-.055	.0018	-.049	-.10
	-.05	-.001	.466	.081	-.056	.0015	-.041	-.05
	0.00	-.004	.413	.119	.006	.0005	.004	0.00
	0.00	-.003	.411	.116	.011	.0005	.002	0.00
	.05	-.002	.472	.079	.051	.0002	.044	.05
	.10	-.001	.511	.075	.042	-.0002	.053	.10
	.20	.004	.578	.092	.086	-.0012	.014	.20
	.30	-.009	.633	.123	.061	-.0016	.017	.30
	.40	-.036	.690	.160	.043	-.0022	.021	.40
45	-.40	-.042	.748	.151	.066	-.0006	-.001	-.40
	-.30	-.012	.692	.148	.012	.0004	-.020	-.30
	-.20	-.005	.654	.121	-.031	.0014	-.028	-.20
	-.10	-.008	.612	.094	-.091	.0021	-.024	-.10
	-.05	-.009	.584	.070	-.055	.0016	-.055	-.05
	0.00	-.005	.503	.106	.024	.0005	.013	0.00
	0.00	-.007	.490	.122	.020	.0005	.014	0.00
	.05	-.007	.596	.078	.051	.0003	.053	.05
	.10	-.006	.628	.094	.077	-.0005	.026	.10
	.20	-.006	.657	.137	.037	-.0009	.030	.20
	.30	-.012	.692	.153	.001	-.0010	.024	.30
	.40	-.042	.754	.145	-.042	-.0010	.008	.40
50	-.40	-.042	.781	.153	.070	-.0008	.014	-.40
	-.30	-.018	.729	.155	.032	.0000	-.007	-.30
	-.20	-.013	.711	.152	-.011	.0008	-.024	-.20
	-.10	-.018	.657	.132	-.056	.0015	-.034	-.10
	-.05	-.019	.638	.114	-.064	.0014	-.036	-.05
	0.00	-.015	.563	.129	.030	.0004	.019	0.00
	0.00	-.014	.569	.119	.030	.0004	.016	0.00
	.05	-.018	.646	.121	.056	-.0002	.034	.05
	.10	-.017	.665	.141	.038	-.0004	.035	.10
	.20	-.013	.697	.158	.014	-.0006	.026	.20
	.30	-.019	.742	.153	-.022	-.0006	.012	.30
	.40	-.043	.788	.139	-.040	-.0008	-.008	.40
55	-.40	-.047	.817	.131	.085	-.0007	.035	-.40
	-.30	-.022	.777	.163	.052	-.0000	.012	-.30
	-.20	-.016	.752	.174	.015	.0004	-.008	-.20
	-.10	-.021	.718	.173	-.040	.0011	-.032	-.10
	-.05	-.024	.670	.155	-.058	.0013	-.036	-.05
	0.00	-.019	.589	.178	.014	.0001	.011	0.00
	0.00	-.020	.592	.166	.029	.0000	.017	0.00
	.05	-.021	.702	.162	.033	-.0002	.036	.05
	.10	-.018	.723	.172	.017	-.0002	.029	.10
	.20	-.016	.757	.178	-.018	-.0003	.011	.20
	.30	-.022	.766	.153	-.039	-.0005	-.009	.30
	.40	-.051	.820	.133	-.035	-.0008	-.022	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.046	.842	.116	.079	-.0004	.048	-.40
	-.30	-.025	.775	.159	.044	.0001	.023	-.30
	-.20	-.019	.768	.194	.010	.0005	.004	-.20
	-.10	-.025	.729	.194	-.024	.0008	-.019	-.10
	-.05	-.029	.677	.187	-.047	.0010	-.031	-.05
	0.00	-.026	.623	.198	.023	-.0001	.017	0.00
	0.00	-.026	.628	.196	.020	-.0002	.014	0.00
	.05	-.027	.694	.186	.024	-.0003	.028	.05
	.10	-.024	.729	.194	-.001	-.0001	.014	.10
	.20	-.021	.735	.190	-.025	-.0003	-.009	.20
	.30	-.024	.777	.159	-.035	-.0005	-.022	.30
	.40	-.044	.767	.075	-.036	-.0005	-.036	.40
65	-.40	-.028	.717	.006	.066	.0002	.049	-.40
	-.30	-.017	.706	.112	.045	.0004	.034	-.30
	-.20	-.023	.744	.184	.018	.0004	.017	-.20
	-.10	-.029	.710	.189	-.005	.0006	-.000	-.10
	-.05	-.034	.682	.191	-.019	.0007	-.010	-.05
	0.00	-.026	.650	.188	.020	-.0001	.014	0.00
	0.00	-.029	.647	.194	.024	-.0002	.015	0.00
	.05	-.033	.694	.193	.008	-.0001	.007	.05
	.10	-.028	.729	.194	-.004	-.0001	-.002	.10
	.20	-.024	.734	.181	-.025	-.0002	-.022	.20
	.30	-.019	.718	.113	-.032	-.0003	-.032	.30
	.40	-.029	.722	.005	-.033	-.0001	-.044	.40
70	-.40	-.032	.769	-.049	.040	.0006	.054	-.40
	-.30	-.019	.712	.073	.032	.0006	.035	-.30
	-.20	-.023	.729	.157	.026	.0004	.028	-.20
	-.10	-.024	.694	.171	.009	.0005	.011	-.10
	-.05	-.026	.681	.175	.001	.0004	.003	-.05
	0.00	-.024	.678	.177	.005	.0002	.003	0.00
	0.00	-.026	.680	.180	.003	.0002	.003	0.00
	.05	-.026	.690	.176	-.004	.0000	-.004	.05
	.10	-.025	.705	.175	-.014	.0000	-.013	.10
	.20	-.022	.710	.143	-.024	.0000	-.029	.20
	.30	-.019	.705	.063	-.023	.0002	-.036	.30
	.40	-.035	.777	-.047	-.019	.0010	-.052	.40
75	-.40	-.027	.800	-.082	.037	.0008	.056	-.40
	-.30	-.009	.680	.009	.032	.0007	.040	-.30
	-.20	-.007	.669	.078	.012	.0008	.022	-.20
	-.10	-.026	.669	.138	.011	.0005	.016	-.10
	-.05	-.028	.670	.146	.001	.0005	.006	-.05
	0.00	-.026	.666	.150	-.001	.0004	-.002	0.00
	0.00	-.025	.671	.149	-.001	.0004	-.002	0.00
	.05	-.027	.666	.144	-.008	.0003	-.009	.05
	.10	-.024	.662	.131	-.012	.0004	-.017	.10
	.20	-.008	.671	.074	-.011	.0004	-.024	.20
	.30	-.012	.704	.009	-.023	.0008	-.041	.30
	.40	-.032	.853	-.098	-.014	.0017	-.056	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.018	.834	-.109	.020	.0009	.055	-.40
	-.30	.001	.784	-.038	.016	.0010	.045	-.30
	-.20	-.002	.682	.033	.010	.0010	.026	-.20
	-.10	-.011	.646	.061	-.001	.0010	.010	-.10
	-.05	-.015	.630	.068	-.002	.0010	.004	-.05
	0.00	-.010	.627	.061	-.003	.0009	-.002	0.00
	0.00	-.010	.627	.062	-.001	.0009	.000	0.00
	.05	-.014	.631	.066	-.006	.0008	-.005	.05
	.10	-.011	.641	.057	-.007	.0009	-.011	.10
	.20	-.003	.683	.024	-.015	.0011	-.028	.20
	.30	.001	.756	-.038	-.014	.0018	-.043	.30
	.40	-.020	.833	-.104	-.002	.0023	-.055	.40
85	-.40	-.007	.852	-.079	.020	.0007	.057	-.40
	-.30	.004	.814	-.052	.011	.0010	.046	-.30
	-.20	.002	.693	-.016	.006	.0010	.030	-.20
	-.10	-.003	.649	.002	-.002	.0011	.014	-.10
	-.05	-.004	.638	.005	-.004	.0012	.006	-.05
	0.00	-.002	.638	.002	-.003	.0012	-.001	0.00
	0.00	-.003	.623	.007	-.004	.0012	-.000	0.00
	.05	-.004	.633	.003	-.005	.0013	-.007	.05
	.10	-.004	.649	.004	-.007	.0013	-.015	.10
	.20	.005	.695	-.036	-.006	.0017	-.030	.20
	.30	.003	.818	-.052	-.007	.0021	-.046	.30
	.40	-.006	.855	-.083	-.001	.0024	-.056	.40
90	-.40	.007	.868	-.071	.010	.0007	.057	-.40
	-.30	.011	.812	-.064	.001	.0009	.046	-.30
	-.20	.008	.713	-.056	-.006	.0010	.030	-.20
	-.10	.007	.649	-.054	-.007	.0012	.014	-.10
	-.05	.007	.637	-.051	-.006	.0013	.006	-.05
	0.00	.005	.630	-.051	-.003	.0014	-.000	0.00
	0.00	.005	.628	-.049	-.004	.0014	-.000	0.00
	.05	.008	.629	-.052	-.004	.0015	-.007	.05
	.10	.009	.649	-.058	-.002	.0017	-.014	.10
	.20	.008	.700	-.068	.004	.0021	-.031	.20
	.30	.013	.811	-.089	.011	.0026	-.047	.30
	.40	.005	.885	-.098	.012	.0030	-.058	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.010	.043	.030	.016	.0013	-.002	-.40
	-.30	-.008	-.014	.006	.015	.0013	-.001	-.30
	-.20	-.008	-.030	.000	.016	.0013	-.001	-.20
	-.10	-.008	-.031	.002	.017	.0013	-.000	-.10
	-.05	-.008	-.030	.002	.017	.0013	-.000	-.05
	0.00	-.009	-.034	-.000	.017	.0013	-.000	0.00
	0.00	-.009	-.031	.000	.017	.0012	-.000	0.00
	.05	-.009	-.029	.002	.015	.0012	-.001	.05
	.10	-.009	-.031	.002	.014	.0012	-.001	.10
	.20	-.009	-.030	.001	.015	.0012	-.001	.20
	.30	-.009	-.011	.008	.016	.0012	-.001	.30
	.40	-.010	.050	.032	.018	.0012	-.002	.40

5	-.40	-.014	.054	.043	.015	.0011	.001	-.40
	-.30	-.008	-.001	.020	.011	.0012	.001	-.30
	-.20	-.007	-.018	.013	.010	.0013	.000	-.20
	-.10	-.007	-.018	.014	.012	.0013	-.000	-.10
	-.05	-.007	-.016	.015	.013	.0013	-.001	-.05
	0.00	-.006	-.021	.012	.015	.0012	-.001	0.00
	0.00	-.006	-.022	.012	.016	.0012	-.001	0.00
	.05	-.007	-.017	.015	.014	.0014	-.001	.05
	.10	-.007	-.020	.014	.016	.0013	-.001	.10
	.20	-.007	-.018	.014	.020	.0012	-.002	.20
	.30	-.009	-.001	.020	.025	.0010	-.002	.30
	.40	-.015	.056	.043	.032	.0008	-.002	.40

10	-.40	-.016	.089	.045	.012	.0016	-.003	-.40
	-.30	-.006	.032	.024	.012	.0015	-.002	-.30
	-.20	-.004	.014	.022	.012	.0015	-.001	-.20
	-.10	-.006	.011	.024	.014	.0014	-.001	-.10
	-.05	-.006	.013	.026	.014	.0013	-.001	-.05
	0.00	-.006	.007	.024	.014	.0014	-.001	0.00
	0.00	-.005	.004	.024	.014	.0014	-.001	0.00
	.05	-.006	.010	.026	.016	.0012	-.001	.05
	.10	-.006	.009	.025	.017	.0011	-.001	.10
	.20	-.004	.013	.023	.018	.0009	-.000	.20
	.30	-.006	.034	.025	.018	.0009	.000	.30
	.40	-.017	.095	.045	.018	.0006	.001	.40

15	-.40	-.023	.155	.068	-.000	.0018	-.008	-.40
	-.30	-.008	.088	.043	.004	.0018	-.004	-.30
	-.20	-.005	.062	.036	.009	.0017	-.002	-.20
	-.10	-.005	.057	.038	.013	.0014	-.001	-.10
	-.05	-.006	.056	.038	.014	.0014	-.001	-.05
	0.00	-.005	.052	.037	.014	.0011	-.001	0.00
	0.00	-.006	.055	.038	.013	.0011	-.001	0.00
	.05	-.007	.057	.040	.016	.0011	-.001	.05
	.10	-.006	.056	.038	.018	.0010	-.000	.10
	.20	-.005	.063	.040	.022	.0006	.001	.20
	.30	-.009	.092	.044	.026	.0004	.003	.30
	.40	-.025	.163	.068	.031	-.0000	.006	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.028	.253	.081	.010	.0018	-.027	-.40
	-.30	-.010	.159	.070	-.001	.0020	-.014	-.30
	-.20	-.007	.126	.063	-.001	.0020	-.006	-.20
	-.10	-.009	.120	.060	.008	.0017	-.003	-.10
	-.05	-.010	.119	.060	.014	.0016	-.003	-.05
	0.00	-.007	.110	.057	.019	.0013	-.002	0.00
	0.00	-.007	.116	.058	.019	.0010	-.002	0.00
	.05	-.009	.120	.060	.028	.0008	-.001	.05
	.10	-.008	.119	.061	.032	.0008	.000	.10
	.20	-.005	.127	.064	.035	.0005	.007	.20
	.30	-.008	.165	.065	.033	.0000	.018	.30
	.40	-.028	.256	.072	.022	-.0002	.030	.40
25	-.40	-.037	.382	.074	.024	.0017	-.052	-.40
	-.30	-.012	.266	.068	.002	.0022	-.037	-.30
	-.20	-.008	.193	.088	-.021	.0022	-.013	-.20
	-.10	-.010	.175	.083	-.003	.0018	-.004	-.10
	-.05	-.011	.175	.079	.019	.0014	-.004	-.05
	0.00	-.008	.175	.078	.034	.0011	-.004	0.00
	0.00	-.007	.173	.078	.033	.0012	-.004	0.00
	.05	-.009	.178	.080	.048	.0007	-.000	.05
	.10	-.007	.185	.082	.050	.0004	.008	.10
	.20	-.005	.209	.082	.041	.0001	.026	.20
	.30	-.012	.292	.051	.017	.0001	.046	.30
	.40	-.040	.397	.065	.006	.0001	.056	.40
30	-.40	-.046	.475	.101	.026	.0019	-.050	-.40
	-.30	-.016	.401	.045	.030	.0023	-.059	-.30
	-.20	-.008	.296	.092	-.016	.0025	-.039	-.20
	-.10	-.014	.245	.106	-.025	.0022	-.006	-.10
	-.05	-.014	.245	.099	.020	.0016	-.005	-.05
	0.00	-.009	.245	.093	.056	.0009	.001	0.00
	0.00	-.007	.244	.092	.054	.0008	.002	0.00
	.05	-.007	.267	.087	.061	.0008	.022	.05
	.10	-.007	.277	.087	.055	.0006	.035	.10
	.20	-.009	.335	.054	.019	.0006	.057	.20
	.30	-.015	.427	.029	-.016	.0008	.074	.30
	.40	-.044	.511	.061	-.016	.0003	.071	.40
35	-.40	-.063	.570	.201	-.042	.0018	-.009	-.40
	-.30	-.022	.483	.145	-.056	.0025	-.015	-.30
	-.20	-.011	.440	.074	.002	.0025	-.059	-.20
	-.10	-.008	.335	.110	-.043	.0024	-.026	-.10
	-.05	-.011	.313	.113	.025	.0015	-.002	-.05
	0.00	-.002	.340	.085	.062	.0013	.028	0.00
	0.00	-.000	.342	.085	.060	.0013	.031	0.00
	.05	-.008	.369	.085	.064	.0008	.050	.05
	.10	-.009	.411	.070	.026	.0011	.068	.10
	.20	-.010	.443	.113	.040	.0004	.049	.20
	.30	-.022	.493	.145	.057	-.0004	.029	.30
	.40	-.064	.578	.197	.051	-.0008	.022	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.060	.680	.218	.060	.0011	-.021	-.40
	-.30	-.025	.600	.172	-.008	.0022	-.026	-.30
	-.20	-.018	.531	.128	-.075	.0029	-.017	-.20
	-.10	-.017	.471	.090	-.044	.0024	-.055	-.10
	-.05	-.018	.402	.115	.013	.0017	.008	-.05
	0.00	-.014	.466	.082	.072	.0012	.060	0.00
	0.00	-.015	.467	.081	.070	.0010	.061	0.00
	.05	-.015	.512	.095	.078	.0005	.051	.05
	.10	-.013	.528	.103	.114	-.0003	.025	.10
	.20	-.017	.552	.144	.080	-.0004	.032	.20
	.30	-.025	.605	.179	.043	-.0006	.029	.30
	.40	-.061	.675	.219	-.017	-.0002	.024	.40
45	-.40	-.063	.707	.201	.058	.0010	-.003	-.40
	-.30	-.029	.685	.209	.062	.0010	-.017	-.30
	-.20	-.022	.643	.178	-.002	.0020	-.035	-.20
	-.10	-.024	.587	.112	-.056	.0025	-.038	-.10
	-.05	-.025	.492	.120	.036	.0015	.018	-.05
	0.00	-.022	.587	.116	.113	.0006	.042	0.00
	0.00	-.022	.581	.113	.105	.0008	.043	0.00
	.05	-.025	.597	.134	.087	.0003	.046	.05
	.10	-.024	.637	.151	.049	.0005	.046	.10
	.20	-.025	.649	.194	.017	-.0001	.040	.20
	.30	-.034	.659	.196	-.011	-.0001	.025	.30
	.40	-.069	.712	.190	-.030	-.0001	.008	.40
50	-.40	-.068	.723	.206	.063	.0012	.018	-.40
	-.30	-.037	.699	.207	.038	.0015	-.005	-.30
	-.20	-.029	.701	.200	.025	.0015	-.018	-.20
	-.10	-.034	.653	.169	-.033	.0020	-.036	-.10
	-.05	-.034	.565	.146	.057	.0011	.028	-.05
	0.00	-.030	.658	.177	.054	.0006	.053	0.00
	0.00	-.029	.654	.173	.059	.0005	.050	0.00
	.05	-.034	.669	.194	.042	.0002	.047	.05
	.10	-.031	.672	.200	.046	-.0003	.044	.10
	.20	-.029	.674	.203	.017	-.0005	.029	.20
	.30	-.035	.703	.205	-.014	-.0003	.008	.30
	.40	-.064	.726	.199	-.044	-.0001	-.018	.40
55	-.40	-.067	.768	.176	.077	.0011	.037	-.40
	-.30	-.038	.730	.209	.048	.0011	.012	-.30
	-.20	-.029	.718	.221	.026	.0011	-.008	-.20
	-.10	-.034	.687	.204	-.011	.0014	-.030	-.10
	-.05	-.036	.594	.180	.072	.0004	.042	-.05
	0.00	-.032	.679	.197	.042	.0005	.044	0.00
	0.00	-.030	.683	.201	.045	.0005	.044	0.00
	.05	-.033	.692	.214	.042	.0000	.041	.05
	.10	-.031	.694	.222	.038	-.0003	.035	.10
	.20	-.031	.706	.231	.004	-.0004	.009	.20
	.30	-.040	.727	.220	-.028	-.0002	-.011	.30
	.40	-.069	.735	.152	-.056	.0005	-.036	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.057	.779	.141	.069	.0011	.047	-.40
	-.30	-.038	.718	.188	.053	.0010	.028	-.30
	-.20	-.036	.713	.232	.020	.0011	.006	-.20
	-.10	-.040	.703	.222	-.018	.0015	-.022	-.10
	-.05	-.043	.639	.203	.070	.0004	.048	-.05
	0.00	-.041	.690	.225	.039	.0005	.035	0.00
	0.00	-.039	.678	.225	.046	.0004	.038	0.00
	.05	-.042	.705	.240	.031	.0003	.026	.05
	.10	-.039	.715	.241	.023	.0001	.019	.10
	.20	-.035	.735	.242	-.006	.0001	-.002	.20
	.30	-.036	.742	.195	-.033	.0004	-.023	.30
	.40	-.057	.790	.123	-.050	.0009	-.047	.40
65	-.40	-.043	.680	.024	.058	.0018	.052	-.40
	-.30	-.032	.695	.140	.051	.0013	.037	-.30
	-.20	-.035	.710	.212	.028	.0012	.021	-.20
	-.10	-.041	.682	.222	.002	.0012	-.000	-.10
	-.05	-.044	.655	.211	.035	.0007	.026	-.05
	0.00	-.031	.675	.227	.029	.0005	.022	0.00
	0.00	-.036	.658	.214	.033	.0006	.020	0.00
	.05	-.041	.682	.226	.019	.0004	.014	.05
	.10	-.039	.685	.228	.007	.0003	.003	.10
	.20	-.035	.703	.209	-.015	.0004	-.015	.20
	.30	-.034	.696	.135	-.041	.0008	-.037	.30
	.40	-.047	.676	.007	-.043	.0014	-.053	.40
70	-.40	-.046	.795	-.046	.044	.0017	.060	-.40
	-.30	-.033	.668	.088	.039	.0015	.040	-.30
	-.20	-.034	.678	.173	.026	.0011	.028	-.20
	-.10	-.036	.701	.207	.008	.0011	.009	-.10
	-.05	-.037	.667	.201	.011	.0010	.012	-.05
	0.00	-.033	.697	.208	.016	.0006	.012	0.00
	0.00	-.031	.682	.208	.014	.0007	.011	0.00
	.05	-.036	.672	.202	.004	.0007	.004	.05
	.10	-.035	.671	.195	-.001	.0007	-.005	.10
	.20	-.031	.655	.148	-.016	.0007	-.022	.20
	.30	-.033	.692	.084	-.030	.0010	-.041	.30
	.40	-.048	.766	-.023	-.026	.0020	-.058	.40
75	-.40	-.056	.818	-.071	.038	.0020	.064	-.40
	-.30	-.027	.663	.022	.039	.0016	.045	-.30
	-.20	-.013	.622	.086	.015	.0016	.025	-.20
	-.10	-.027	.627	.144	.007	.0012	.014	-.10
	-.05	-.028	.612	.146	.001	.0011	.006	-.05
	0.00	-.026	.609	.144	-.002	.0011	-.002	0.00
	0.00	-.029	.622	.146	-.001	.0011	-.000	0.00
	.05	-.027	.604	.140	-.002	.0012	-.005	.05
	.10	-.024	.610	.128	-.003	.0011	-.009	.10
	.20	-.015	.624	.084	-.017	.0012	-.027	.20
	.30	-.026	.647	.013	-.025	.0017	-.044	.30
	.40	-.059	.780	-.064	-.012	.0024	-.058	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.044	.837	-.061	.029	.0021	.062	-.40
	-.30	-.017	.757	-.019	.024	.0019	.048	-.30
	-.20	-.016	.657	.050	.014	.0016	.028	-.20
	-.10	-.022	.628	.082	.002	.0015	.011	-.10
	-.05	-.025	.615	.092	.000	.0013	.005	-.05
	0.00	-.025	.594	.086	-.003	.0014	-.001	0.00
	0.00	-.024	.612	.080	-.004	.0014	-.001	0.00
	.05	-.023	.603	.082	-.004	.0014	-.005	.05
	.10	-.022	.618	.077	-.008	.0014	-.013	.10
	.20	-.019	.650	.044	-.018	.0016	-.031	.20
	.30	-.020	.734	-.021	-.020	.0023	-.047	.30
	.40	-.049	.822	-.069	-.008	.0030	-.060	.40
85	-.40	-.022	.869	-.047	.015	.0018	.061	-.40
	-.30	-.003	.811	-.052	.006	.0019	.049	-.30
	-.20	-.008	.682	-.003	.006	.0016	.031	-.20
	-.10	-.011	.634	.020	-.000	.0016	.014	-.10
	-.05	-.012	.614	.020	-.003	.0016	.006	-.05
	0.00	-.013	.613	.020	-.003	.0017	-.002	0.00
	0.00	-.013	.605	.020	-.003	.0017	-.002	0.00
	.05	-.015	.614	.021	-.003	.0017	-.008	.05
	.10	-.014	.631	.018	-.007	.0018	-.016	.10
	.20	-.010	.686	-.014	-.010	.0021	-.034	.20
	.30	-.004	.820	-.047	-.010	.0027	-.051	.30
	.40	-.016	.875	-.066	-.007	.0029	-.062	.40
90	-.40	-.002	.874	-.029	.003	.0016	.062	-.40
	-.30	-.005	.767	-.037	-.000	.0016	.046	-.30
	-.20	-.008	.684	-.031	-.005	.0017	.032	-.20
	-.10	-.009	.621	-.037	-.005	.0018	.014	-.10
	-.05	-.010	.598	-.034	-.004	.0019	.005	-.05
	0.00	-.010	.593	-.038	-.003	.0020	-.001	0.00
	0.00	-.010	.585	-.030	-.004	.0019	-.001	0.00
	.05	-.009	.598	-.033	-.003	.0021	-.007	.05
	.10	-.009	.613	-.035	-.002	.0022	-.015	.10
	.20	-.007	.681	-.042	.001	.0025	-.033	.20
	.30	-.002	.774	-.062	.003	.0031	-.049	.30
	.40	-.004	.845	-.043	-.010	.0032	-.062	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.009	.067	.030	.011	.0005	.001	-.40
	-.30	.009	.013	.002	.009	.0005	.000	-.30
	-.20	.009	-.002	-.005	.009	.0005	.001	-.20
	-.10	.009	-.000	-.004	.009	.0004	.001	-.10
	-.05	.009	.001	-.003	.009	.0004	.001	-.05
	0.00	.009	-.005	-.005	.008	.0004	.001	0.00
	0.00	.010	-.005	-.006	.008	.0004	.001	0.00
	.05	.011	-.001	-.003	.008	.0004	.001	.05
	.10	.010	-.004	-.003	.007	.0004	.001	.10
	.20	.010	-.005	-.004	.007	.0004	.001	.20
	.30	.010	.012	.004	.006	.0004	.001	.30
	.40	.009	.070	.033	.004	.0003	.001	.40

5	-.40	.004	.088	.053	.002	.0003	.003	-.40
	-.30	.010	.027	.021	.002	.0004	.002	-.30
	-.20	.011	.007	.010	.003	.0005	.001	-.20
	-.10	.010	.005	.008	.005	.0005	.001	-.10
	-.05	.011	.007	.009	.005	.0005	.001	-.05
	0.00	.011	.000	.007	.008	.0004	.001	0.00
	0.00	.011	.000	.007	.008	.0004	.001	0.00
	.05	.011	.006	.010	.006	.0005	.000	.05
	.10	.011	.005	.010	.008	.0004	.000	.10
	.20	.011	.007	.012	.011	.0004	-.000	.20
	.30	.009	.029	.023	.016	.0002	-.000	.30
	.40	.002	.092	.056	.023	.0000	-.000	.40

10	-.40	.015	.092	-.036	-.002	.0007	.001	-.40
	-.30	.015	.067	-.021	-.002	.0007	.000	-.30
	-.20	.009	.071	.006	-.000	.0008	.001	-.20
	-.10	.004	.084	.027	.003	.0007	.001	-.10
	-.05	.003	.090	.033	.003	.0007	.001	-.05
	0.00	.004	.081	.032	.006	.0006	.001	0.00
	0.00	.004	.082	.032	.006	.0005	.001	0.00
	.05	.003	.086	.033	.007	.0005	.001	.05
	.10	.005	.083	.027	.007	.0004	.001	.10
	.20	.009	.072	.009	.008	.0002	.002	.20
	.30	.014	.069	-.019	.008	-.0000	.002	.30
	.40	.013	.100	-.034	.010	-.0002	.002	.40

15	-.40	-.004	.190	.082	-.015	.0004	-.008	-.40
	-.30	.010	.118	.048	-.009	.0007	-.004	-.30
	-.20	.013	.093	.037	-.003	.0008	-.002	-.20
	-.10	.012	.089	.037	.004	.0007	-.000	-.10
	-.05	.012	.089	.038	.006	.0007	.000	-.05
	0.00	.014	.080	.036	.007	.0005	.000	0.00
	0.00	.014	.081	.035	.010	.0005	.000	0.00
	.05	.012	.085	.037	.006	.0004	.001	.05
	.10	.012	.086	.038	.007	.0002	.001	.10
	.20	.013	.092	.040	.010	-.0003	.002	.20
	.30	.009	.118	.050	.014	-.0007	.003	.30
	.40	-.005	.190	.082	.019	-.0014	.006	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.012	.295	.098	-.001	.0003	-.030	-.40
	-.30	.009	.200	.078	-.012	.0008	-.017	-.30
	-.20	.012	.158	.066	-.012	.0009	-.007	-.20
	-.10	.010	.155	.064	-.005	.0008	-.001	-.10
	-.05	.009	.155	.063	.002	.0007	-.000	-.05
	0.00	.012	.141	.058	.011	.0004	.000	0.00
	0.00	.012	.144	.059	.012	.0004	-.000	0.00
	.05	.010	.150	.064	.014	.0001	.001	.05
	.10	.011	.151	.064	.020	-.0002	.002	.10
	.20	.012	.159	.068	.027	-.0008	.007	.20
	.30	.008	.202	.079	.027	-.0012	.017	.30
	.40	-.014	.301	.095	.018	-.0015	.032	.40
25	-.40	-.017	.407	.095	.023	-.0005	-.053	-.40
	-.30	.006	.303	.071	-.002	.0007	-.039	-.30
	-.20	.012	.232	.089	-.024	.0010	-.018	-.20
	-.10	.007	.214	.086	-.021	.0010	-.002	-.10
	-.05	.004	.212	.087	-.005	.0007	-.000	-.05
	0.00	.007	.205	.083	.021	.0003	-.001	0.00
	0.00	.007	.203	.083	.020	.0003	-.001	0.00
	.05	.005	.211	.086	.036	-.0001	.001	.05
	.10	.008	.216	.087	.045	-.0005	.005	.10
	.20	.013	.236	.091	.038	-.0011	.022	.20
	.30	.007	.311	.063	.007	-.0012	.043	.30
	.40	-.019	.425	.086	-.013	-.0015	.056	.40
30	-.40	-.040	.552	.122	.035	-.0008	-.063	-.40
	-.30	-.004	.445	.083	.012	.0004	-.057	-.30
	-.20	.008	.358	.082	-.014	.0011	-.049	-.20
	-.10	.008	.291	.110	-.042	.0013	-.012	-.10
	-.05	.006	.278	.109	-.018	.0009	-.002	-.05
	0.00	.010	.273	.100	.042	.0000	.001	0.00
	0.00	.010	.269	.100	.038	.0001	.001	0.00
	.05	.011	.288	.099	.053	-.0003	.016	.05
	.10	.013	.307	.099	.052	-.0006	.032	.10
	.20	.008	.376	.065	.009	-.0007	.057	.20
	.30	-.002	.463	.061	-.027	-.0007	.072	.30
	.40	-.040	.553	.134	-.006	-.0021	.055	.40
35	-.40	-.042	.613	.225	-.030	-.0005	-.010	-.40
	-.30	-.002	.528	.172	-.043	.0006	-.017	-.30
	-.20	.008	.475	.120	-.028	.0011	-.042	-.20
	-.10	.010	.394	.109	-.043	.0013	-.042	-.10
	-.05	.005	.347	.125	-.024	.0009	-.011	-.05
	0.00	.015	.362	.104	.052	.0001	.022	0.00
	0.00	.017	.356	.093	.040	.0003	.024	0.00
	.05	.012	.395	.098	.065	-.0003	.049	.05
	.10	.009	.432	.089	.037	-.0003	.065	.10
	.20	.008	.485	.120	.021	-.0008	.054	.20
	.30	-.002	.535	.171	.064	-.0024	.019	.30
	.40	-.045	.620	.227	.044	-.0032	.010	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.044	.728	.244	.040	-.0015	-.013	-.40
	-.30	-.007	.635	.199	-.004	.0000	-.029	-.30
	-.20	.000	.593	.154	-.078	.0016	-.018	-.20
	-.10	.002	.539	.112	-.047	.0016	-.056	-.10
	-.05	.001	.445	.133	-.033	.0011	-.028	-.05
	0.00	.006	.468	.112	.073	.0000	.045	0.00
	0.00	.008	.451	.113	.072	.0000	.042	0.00
	.05	.004	.552	.104	.055	.0002	.067	.05
	.10	.010	.581	.112	.100	-.0009	.026	.10
	.20	.001	.600	.172	.080	-.0018	.031	.20
	.30	-.007	.642	.209	.021	-.0023	.030	.30
	.40	-.044	.726	.250	-.032	-.0030	.016	.40
45	-.40	-.053	.759	.225	.071	-.0017	.008	-.40
	-.30	-.015	.709	.221	.020	-.0002	-.017	-.30
	-.20	-.003	.672	.208	.001	.0004	-.035	-.20
	-.10	-.004	.628	.145	-.069	.0017	-.029	-.10
	-.05	-.004	.543	.133	-.025	.0011	-.038	-.05
	0.00	.002	.571	.129	.086	-.0001	.051	0.00
	0.00	.003	.587	.119	.085	.0001	.057	0.00
	.05	-.002	.641	.150	.091	-.0005	.048	.05
	.10	-.002	.669	.182	.050	-.0007	.052	.10
	.20	-.005	.684	.216	.026	-.0015	.035	.20
	.30	-.018	.717	.212	-.026	-.0019	.021	.30
	.40	-.057	.770	.224	-.059	-.0025	-.001	.40
50	-.40	-.057	.738	.237	.082	-.0017	.031	-.40
	-.30	-.021	.732	.237	.041	-.0005	.003	-.30
	-.20	-.009	.728	.222	-.004	.0005	-.025	-.20
	-.10	-.010	.695	.202	-.021	.0009	-.038	-.10
	-.05	-.011	.598	.171	-.032	.0010	-.021	-.05
	0.00	-.005	.666	.171	.075	-.0002	.052	0.00
	0.00	-.005	.656	.178	.075	-.0002	.051	0.00
	.05	-.011	.700	.206	.046	-.0003	.052	.05
	.10	-.009	.708	.217	.051	-.0009	.046	.10
	.20	-.010	.727	.227	.007	-.0013	.028	.20
	.30	-.020	.735	.235	-.019	-.0021	.005	.30
	.40	-.054	.740	.232	-.054	-.0027	-.030	.40
55	-.40	-.060	.762	.184	.088	-.0010	.052	-.40
	-.30	-.025	.759	.257	.048	-.0003	.020	-.30
	-.20	-.010	.757	.268	.013	.0002	-.005	-.20
	-.10	-.010	.740	.235	-.005	.0004	-.027	-.10
	-.05	-.013	.619	.215	-.006	.0005	-.008	-.05
	0.00	-.005	.729	.227	.054	-.0002	.049	0.00
	0.00	-.006	.742	.226	.045	-.0001	.050	0.00
	.05	-.008	.739	.249	.045	-.0008	.042	.05
	.10	-.007	.742	.258	.032	-.0011	.032	.10
	.20	-.011	.733	.270	-.015	-.0015	-.003	.20
	.30	-.027	.735	.234	-.054	-.0016	-.031	.30
	.40	-.069	.754	.179	-.083	-.0020	-.060	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A1

BETA= 0

ALPHA	$\alpha b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\alpha b/2V$
60	-.40	-.054	.783	.136	.089	-.0007	.061	-.40
	-.30	-.026	.757	.224	.064	-.0004	.036	-.30
	-.20	-.017	.767	.272	.020	-.0000	.005	-.20
	-.10	-.020	.747	.262	-.013	.0004	-.021	-.10
	-.05	-.024	.647	.232	.037	.0000	.023	-.05
	0.00	-.016	.729	.258	.065	-.0006	.048	0.00
	0.00	-.015	.735	.257	.061	-.0006	.046	0.00
	.05	-.019	.743	.265	.036	-.0007	.032	.05
	.10	-.018	.759	.281	.016	-.0009	.017	.10
	.20	-.018	.752	.270	-.026	-.0011	-.016	.20
	.30	-.026	.760	.225	-.055	-.0015	-.044	.30
	.40	-.054	.794	.131	-.074	-.0017	-.069	.40
65	-.40	-.037	.734	.022	.059	.0002	.060	-.40
	-.30	-.027	.746	.179	.061	-.0000	.048	-.30
	-.20	-.019	.746	.239	.026	.0001	.020	-.20
	-.10	-.025	.739	.259	-.001	.0002	-.004	-.10
	-.05	-.028	.691	.236	.039	-.0001	.030	-.05
	0.00	-.014	.720	.257	.034	-.0004	.028	0.00
	0.00	-.015	.724	.253	.034	-.0004	.028	0.00
	.05	-.025	.732	.266	.015	-.0005	.016	.05
	.10	-.023	.739	.262	-.000	-.0006	.002	.10
	.20	-.022	.751	.247	-.025	-.0008	-.023	.20
	.30	-.033	.755	.178	-.056	-.0009	-.054	.30
	.40	-.048	.745	.042	-.041	-.0007	-.057	.40
70	-.40	-.052	.856	-.008	.055	.0007	.065	-.40
	-.30	-.024	.708	.103	.045	.0005	.044	-.30
	-.20	-.019	.741	.205	.035	.0001	.034	-.20
	-.10	-.018	.705	.221	.010	.0002	.012	-.10
	-.05	-.020	.697	.222	.007	-.0004	.009	-.05
	0.00	-.014	.724	.242	.016	-.0001	.013	0.00
	0.00	-.014	.746	.241	.013	-.0001	.012	0.00
	.05	-.019	.725	.228	.007	-.0002	.005	.05
	.10	-.019	.709	.218	-.003	-.0004	-.007	.10
	.20	-.021	.716	.191	-.028	-.0005	-.034	.20
	.30	-.023	.712	.099	-.026	-.0003	-.043	.30
	.40	-.050	.799	.011	-.019	.0001	-.059	.40
75	-.40	-.052	.872	-.028	.045	.0007	.066	-.40
	-.30	-.014	.703	.040	.037	.0007	.047	-.30
	-.20	-.002	.683	.112	.022	.0008	.028	-.20
	-.10	-.011	.720	.190	.018	.0004	.020	-.10
	-.05	-.012	.732	.199	.010	.0003	.011	-.05
	0.00	-.010	.713	.197	.003	.0001	.001	0.00
	0.00	-.010	.706	.187	.004	.0002	.003	0.00
	.05	-.011	.686	.176	-.003	.0001	-.006	.05
	.10	-.011	.682	.169	-.012	.0001	-.017	.10
	.20	-.005	.692	.108	-.017	.0000	-.028	.20
	.30	-.018	.717	.036	-.025	.0005	-.047	.30
	.40	-.058	.681	-.043	-.023	.0010	-.063	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_H	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.049	.911	-.059	.034	.0012	.067	-.40
	-.30	-.008	.826	-.010	.029	.0011	.052	-.30
	-.20	.002	.704	.062	.021	.0009	.033	-.20
	-.10	-.003	.676	.106	.007	.0008	.014	-.10
	-.05	-.005	.664	.112	.004	.0007	.007	-.05
	0.00	-.003	.665	.110	.003	.0005	.000	0.00
	0.00	-.001	.650	.108	.001	.0005	-.000	0.00
	.05	-.006	.667	.111	-.006	.0006	-.008	.05
	.10	-.003	.689	.098	-.007	.0006	-.015	.10
	.20	-.000	.712	.059	-.016	.0007	-.033	.20
	.30	-.007	.817	-.022	-.015	.0012	-.051	.30
	.40	-.046	.880	-.056	-.009	.0013	-.063	.40
85	-.40	-.023	.898	-.039	.016	.0010	.064	-.40
	-.30	.002	.821	-.017	.013	.0010	.050	-.30
	-.20	.007	.720	.012	.010	.0010	.035	-.20
	-.10	.002	.679	.043	.007	.0011	.016	-.10
	-.05	.001	.660	.044	.003	.0011	.007	-.05
	0.00	.005	.647	.043	.001	.0010	.000	0.00
	0.00	.005	.652	.045	.001	.0009	.000	0.00
	.05	.003	.661	.042	-.004	.0010	-.008	.05
	.10	.003	.681	.034	-.007	.0010	-.017	.10
	.20	.007	.726	.001	-.009	.0014	-.035	.20
	.30	-.001	.831	-.029	-.009	.0016	-.050	.30
	.40	-.029	.909	-.046	-.010	.0018	-.064	.40
90	-.40	-.016	.922	-.004	.018	.0010	.065	-.40
	-.30	.004	.848	-.033	.002	.0011	.053	-.30
	-.20	.007	.745	-.014	-.002	.0011	.035	-.20
	-.10	.007	.671	-.020	-.003	.0012	.016	-.10
	-.05	.007	.657	-.017	-.003	.0012	.007	-.05
	0.00	.007	.651	-.015	.000	.0013	.000	0.00
	0.00	.007	.656	-.019	.001	.0014	.001	0.00
	.05	.006	.661	-.021	-.001	.0014	-.008	.05
	.10	.006	.677	-.023	-.001	.0015	-.016	.10
	.20	.007	.743	-.028	.004	.0018	-.035	.20
	.30	.007	.851	-.036	.000	.0022	-.052	.30
	.40	-.007	.893	-.034	.005	.0023	-.062	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.016	.074	.005	.005	-.0005	-.006	-.40
	-.30	-.015	.029	-.002	.011	-.0005	-.004	-.30
	-.20	-.015	.015	-.002	.014	-.0006	-.002	-.20
	-.10	-.015	.015	.000	.015	-.0007	-.001	-.10
	-.05	-.015	.017	.001	.017	-.0007	-.000	-.05
	0.00	-.014	.009	.001	.015	-.0008	-.000	0.00
	0.00	-.014	.009	.001	.016	-.0007	-.000	0.00
	.05	-.015	.013	.002	.016	-.0007	-.000	.05
	.10	-.015	.011	.001	.017	-.0006	-.001	.10
	.20	-.015	.012	.000	.014	-.0006	-.002	.20
	.30	-.015	.027	.001	.007	-.0006	-.004	.30
	.40	-.017	.075	.008	-.003	-.0005	-.007	.40

5	-.40	.085	.072	.010	-.008	.0059	-.004	-.40
	-.30	.019	.030	.008	.002	.0015	-.002	-.30
	-.20	-.030	.019	.010	.010	-.0018	-.001	-.20
	-.10	-.061	.022	.012	.016	-.0036	-.000	-.10
	-.05	-.069	.025	.013	.019	-.0041	-.000	-.05
	0.00	-.015	.014	.008	.017	-.0008	-.001	0.00
	0.00	-.015	.014	.008	.016	-.0008	-.001	0.00
	.05	-.015	.019	.009	.029	-.0008	-.035	.05
	.10	-.015	.018	.009	.029	-.0008	-.031	.10
	.20	-.016	.016	.010	.021	-.0008	-.013	.20
	.30	-.017	.031	.014	.008	-.0008	.016	.30
	.40	-.022	.079	.023	-.014	-.0008	.057	.40

10	-.40	-.021	.089	-.008	-.003	-.0005	-.008	-.40
	-.30	-.016	.055	-.003	.007	-.0006	-.005	-.30
	-.20	-.017	.050	.004	.014	-.0006	-.003	-.20
	-.10	-.019	.057	.009	.019	-.0006	-.002	-.10
	-.05	-.020	.061	.011	.021	-.0007	-.002	-.05
	0.00	-.018	.054	.011	.021	-.0007	-.002	0.00
	0.00	-.017	.053	.010	.021	-.0007	-.002	0.00
	.05	-.019	.059	.010	.023	-.0007	-.003	.05
	.10	-.019	.056	.009	.025	-.0007	-.004	.10
	.20	-.017	.054	.002	.024	-.0006	-.005	.20
	.30	-.016	.063	-.009	.020	-.0005	-.008	.30
	.40	-.021	.102	-.015	.012	-.0004	-.011	.40

15	-.40	-.022	.122	.007	.004	-.0006	-.011	-.40
	-.30	-.014	.081	.002	.014	-.0006	-.008	-.30
	-.20	-.015	.068	.005	.021	-.0005	-.006	-.20
	-.10	-.017	.069	.007	.024	-.0006	-.004	-.10
	-.05	-.018	.072	.007	.026	-.0005	-.003	-.05
	0.00	-.016	.066	.007	.022	-.0006	-.002	0.00
	0.00	-.016	.065	.007	.022	-.0006	-.002	0.00
	.05	-.018	.072	.007	.022	-.0006	-.002	.05
	.10	-.017	.070	.007	.021	-.0007	-.002	.10
	.20	-.015	.071	.003	.019	-.0006	-.001	.20
	.30	-.016	.088	-.002	.014	-.0006	-.002	.30
	.40	-.025	.132	.001	.008	-.0007	-.004	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A2

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
20	-.40	-.029	.167	.014	-.003	.0000	-.010	-.40
	-.30	-.017	.118	.007	.010	-.0004	-.006	-.30
	-.20	-.014	.103	.005	.020	-.0005	-.004	-.20
	-.10	-.016	.102	.005	.027	-.0006	-.002	-.10
	-.05	-.017	.103	.005	.030	-.0007	-.002	-.05
	0.00	-.016	.098	.005	.027	-.0007	-.001	0.00
	0.00	-.016	.097	.004	.026	-.0007	-.002	0.00
	.05	-.016	.101	.004	.030	-.0007	-.002	.05
	.10	-.016	.101	.002	.031	-.0006	-.002	.10
	.20	-.015	.105	.001	.025	-.0006	-.002	.20
	.30	-.018	.126	.001	.017	-.0005	-.003	.30
	.40	-.033	.179	.009	.004	-.0004	-.004	.40
25	-.40	-.033	.212	.011	-.003	-.0007	-.010	-.40
	-.30	-.018	.159	.005	.010	-.0006	-.007	-.30
	-.20	-.015	.144	.002	.022	-.0004	-.004	-.20
	-.10	-.017	.141	.004	.031	-.0003	-.002	-.10
	-.05	-.018	.144	.004	.035	-.0005	-.001	-.05
	0.00	-.017	.140	.004	.032	-.0006	-.000	0.00
	0.00	-.016	.139	.003	.033	-.0007	-.000	0.00
	.05	-.020	.146	.004	.033	-.0006	.000	.05
	.10	-.018	.146	.003	.034	-.0005	.000	.10
	.20	-.016	.148	.001	.032	-.0008	.001	.20
	.30	-.018	.167	.000	.026	-.0008	.000	.30
	.40	-.034	.215	.006	.015	-.0010	-.002	.40
30	-.40	-.035	.251	.007	.001	-.0003	-.002	-.40
	-.30	-.019	.208	.003	.016	-.0002	-.002	-.30
	-.20	-.017	.190	.003	.028	-.0004	-.001	-.20
	-.10	-.019	.188	.005	.036	-.0003	-.000	-.10
	-.05	-.020	.189	.005	.039	-.0005	.000	-.05
	0.00	-.018	.184	.005	.036	-.0006	.000	0.00
	0.00	-.018	.182	.005	.037	-.0006	.001	0.00
	.05	-.020	.188	.004	.040	-.0005	.002	.05
	.10	-.019	.187	.003	.038	-.0005	.002	.10
	.20	-.018	.190	-.000	.033	-.0006	.003	.20
	.30	-.022	.212	-.001	.024	-.0007	.001	.30
	.40	-.039	.260	.002	.008	-.0011	-.003	.40
35	-.40	-.039	.292	-.003	.004	-.0005	.012	-.40
	-.30	-.025	.247	.001	.021	-.0003	.014	-.30
	-.20	-.024	.234	.000	.031	-.0003	.015	-.20
	-.10	-.027	.233	.003	.039	-.0003	.012	-.10
	-.05	-.028	.235	.002	.041	-.0002	.009	-.05
	0.00	-.024	.232	.001	.038	-.0005	.008	0.00
	0.00	-.023	.231	.001	.036	-.0005	.008	0.00
	.05	-.028	.240	-.003	.035	-.0003	.007	.05
	.10	-.026	.244	-.007	.034	-.0005	.006	.10
	.20	-.022	.247	-.012	.025	-.0007	.002	.20
	.30	-.023	.260	-.010	.019	-.0009	-.002	.30
	.40	-.037	.296	-.009	.001	-.0013	-.009	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.041	.335	-.005	.009	-.0004	.012	-.40
	-.30	-.026	.291	-.002	.027	-.0002	.015	-.30
	-.20	-.023	.277	-.003	.031	-.0002	.020	-.20
	-.10	-.025	.280	-.009	.034	-.0003	.018	-.10
	-.05	-.026	.285	-.016	.036	-.0002	.017	-.05
	0.00	-.023	.278	-.015	.038	-.0003	.016	0.00
	0.00	-.023	.278	-.016	.036	-.0004	.016	0.00
	.05	-.025	.281	-.019	.040	-.0005	.016	.05
	.10	-.024	.282	-.020	.039	-.0005	.012	.10
	.20	-.020	.293	-.025	.033	-.0006	.005	.20
	.30	-.023	.308	-.021	.019	-.0008	-.002	.30
	.40	-.043	.350	-.019	-.005	-.0010	-.008	.40
45	-.40	-.046	.388	-.016	.007	.0001	.013	-.40
	-.30	-.029	.346	-.009	.022	.0001	.011	-.30
	-.20	-.026	.346	-.031	.026	.0000	.010	-.20
	-.10	-.028	.330	-.023	.043	-.0002	.016	-.10
	-.05	-.029	.336	-.030	.042	-.0002	.019	-.05
	0.00	-.026	.329	-.026	.041	-.0002	.018	0.00
	0.00	-.025	.327	-.027	.038	-.0002	.018	0.00
	.05	-.030	.333	-.031	.041	-.0005	.018	.05
	.10	-.029	.328	-.024	.040	-.0005	.015	.10
	.20	-.026	.326	-.013	.040	-.0009	.014	.20
	.30	-.029	.341	-.015	.027	-.0008	.000	.30
	.40	-.046	.389	-.026	.016	-.0009	-.005	.40
50	-.40	-.049	.453	-.027	-.005	.0003	.013	-.40
	-.30	-.028	.422	-.029	-.016	.0003	.002	-.30
	-.20	-.024	.409	-.041	.003	.0001	.003	-.20
	-.10	-.027	.405	-.038	.065	.0001	.012	-.10
	-.05	-.030	.392	-.029	.083	-.0001	.014	-.05
	0.00	-.027	.376	-.022	.084	-.0001	.013	0.00
	0.00	-.027	.382	-.025	.086	-.0001	.014	0.00
	.05	-.030	.367	-.014	.086	-.0005	.011	.05
	.10	-.029	.355	-.007	.086	-.0006	.007	.10
	.20	-.027	.357	-.002	.069	-.0010	.001	.20
	.30	-.033	.386	-.006	.041	-.0009	-.003	.30
	.40	-.056	.436	-.022	.005	-.0008	-.010	.40
55	-.40	-.056	.464	-.029	.048	-.0000	.035	-.40
	-.30	-.036	.437	-.015	-.002	-.0000	.006	-.30
	-.20	-.031	.432	-.022	-.009	-.0000	.000	-.20
	-.10	-.032	.427	-.018	.046	-.0001	.011	-.10
	-.05	-.033	.421	-.016	.070	-.0002	.014	-.05
	0.00	-.031	.412	-.012	.077	-.0002	.016	0.00
	0.00	-.031	.408	-.015	.077	-.0002	.015	0.00
	.05	-.033	.398	-.003	.077	-.0005	.014	.05
	.10	-.032	.385	.007	.070	-.0008	.011	.10
	.20	-.031	.408	-.003	.049	-.0010	.004	.20
	.30	-.036	.438	-.014	.021	-.0009	-.006	.30
	.40	-.059	.473	-.042	-.022	-.0007	-.022	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.054	.498	-.042	.085	-.0002	.058	-.40
	-.30	-.041	.465	-.012	.052	-.0002	.030	-.30
	-.20	-.039	.439	-.002	.018	-.0002	.010	-.20
	-.10	-.041	.431	.007	.032	-.0003	.010	-.10
	-.05	-.042	.427	.008	.044	-.0004	.010	-.05
	0.00	-.042	.419	.013	.049	-.0005	.011	0.00
	0.00	-.043	.418	.014	.050	-.0005	.011	0.00
	.05	-.045	.415	.016	.049	-.0007	.010	.05
	.10	-.043	.416	.017	.043	-.0009	.006	.10
	.20	-.039	.436	.007	.025	-.0011	-.003	.20
	.30	-.042	.462	-.018	.002	-.0009	-.015	.30
	.40	-.054	.493	-.055	-.038	-.0006	-.035	.40
65	-.40	-.051	.513	-.071	.066	-.0002	.059	-.40
	-.30	-.040	.485	-.029	.071	-.0002	.046	-.30
	-.20	-.039	.453	.003	.056	-.0004	.029	-.20
	-.10	-.042	.440	.020	.034	-.0005	.012	-.10
	-.05	-.044	.432	.021	.035	-.0006	.008	-.05
	0.00	-.040	.425	.025	.032	-.0007	.006	0.00
	0.00	-.042	.427	.021	.033	-.0007	.007	0.00
	.05	-.042	.425	.022	.030	-.0008	.001	.05
	.10	-.042	.430	.021	.025	-.0010	-.003	.10
	.20	-.040	.455	.000	.001	-.0010	-.016	.20
	.30	-.043	.483	-.029	-.030	-.0007	-.033	.30
	.40	-.058	.525	-.069	-.086	-.0002	-.061	.40
70	-.40	-.051	.545	-.075	.052	-.0001	.060	-.40
	-.30	-.042	.508	-.033	.058	-.0004	.047	-.30
	-.20	-.043	.484	-.003	.051	-.0004	.033	-.20
	-.10	-.046	.465	.012	.035	-.0006	.015	-.10
	-.05	-.048	.462	.017	.030	-.0007	.008	-.05
	0.00	-.046	.454	.019	.014	-.0007	-.002	0.00
	0.00	-.048	.444	.020	.013	-.0007	-.001	0.00
	.05	-.049	.450	.017	.011	-.0008	-.007	.05
	.10	-.048	.462	.012	-.003	-.0008	-.017	.10
	.20	-.045	.483	-.004	-.023	-.0007	-.031	.20
	.30	-.045	.510	-.033	-.048	-.0005	-.047	.30
	.40	-.057	.540	-.072	-.079	-.0000	-.065	.40
75	-.40	-.048	.575	-.099	-.008	-.0001	.046	-.40
	-.30	-.044	.519	-.046	.046	-.0002	.045	-.30
	-.20	-.043	.495	-.013	.041	-.0004	.031	-.20
	-.10	-.044	.468	.002	.032	-.0006	.015	-.10
	-.05	-.045	.470	.005	.026	-.0006	.007	-.05
	0.00	-.043	.468	.010	.019	-.0007	.001	0.00
	0.00	-.046	.462	.007	.013	-.0007	-.001	0.00
	.05	-.048	.464	.006	.013	-.0007	-.007	.05
	.10	-.047	.470	.004	.005	-.0008	-.016	.10
	.20	-.046	.490	-.012	-.016	-.0006	-.032	.20
	.30	-.045	.518	-.043	-.041	-.0003	-.048	.30
	.40	-.028	.547	-.131	-.051	.0008	-.062	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.014	.603	-.157	-.015	-.0001	.053	-.40
	-.30	-.021	.492	-.078	.010	-.0006	.036	-.30
	-.20	-.039	.490	-.030	.031	-.0005	.031	-.20
	-.10	-.040	.476	-.020	.024	-.0005	.015	-.10
	-.05	-.041	.468	-.018	.022	-.0005	.008	-.05
	0.00	-.037	.464	-.020	.014	-.0006	.001	0.00
	0.00	-.039	.472	-.018	.019	-.0006	.002	0.00
	.05	-.042	.474	-.017	.016	-.0005	-.007	.05
	.10	-.041	.480	-.019	.011	-.0005	-.015	.10
	.20	-.040	.494	-.030	-.003	-.0005	-.031	.20
	.30	-.021	.508	-.084	.006	.0001	-.035	.30
	.40	-.009	.592	-.166	.005	.0009	-.056	.40
85	-.40	-.003	.616	-.152	-.019	-.0001	.056	-.40
	-.30	-.013	.554	-.113	-.004	-.0002	.041	-.30
	-.20	-.017	.478	-.090	.005	-.0002	.026	-.20
	-.10	-.026	.465	-.064	.014	-.0003	.011	-.10
	-.05	-.025	.451	-.065	.017	-.0003	.004	-.05
	0.00	-.024	.443	-.069	.019	-.0002	-.000	0.00
	0.00	-.018	.434	-.073	.016	-.0002	-.001	0.00
	.05	-.021	.446	-.073	.020	-.0001	-.007	.05
	.10	-.022	.459	-.071	.020	-.0000	-.014	.10
	.20	-.014	.482	-.102	.023	.0002	-.027	.20
	.30	-.011	.534	-.125	.019	.0005	-.043	.30
	.40	-.006	.618	-.156	.020	.0009	-.058	.40
90	-.40	.010	.592	-.151	-.025	-.0002	.054	-.40
	-.30	-.005	.566	-.135	-.012	-.0001	.046	-.30
	-.20	-.009	.467	-.126	-.002	-.0002	.030	-.20
	-.10	-.012	.429	-.116	.011	-.0001	.014	-.10
	-.05	-.012	.424	-.118	.016	-.0000	.006	-.05
	0.00	-.015	.419	-.117	.021	-.0000	.001	0.00
	0.00	-.006	.416	-.118	.019	.0000	-.000	0.00
	.05	-.008	.425	-.121	.027	.0001	-.006	.05
	.10	-.008	.431	-.121	.029	.0002	-.014	.10
	.20	-.005	.459	-.132	.032	.0004	-.030	.20
	.30	-.005	.573	-.135	.031	.0007	-.047	.30
	.40	.016	.598	-.160	.031	.0013	-.055	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.050	.052	.004	.017	-.0005	.004	-.40
	-.30	.050	.006	-.007	.010	-.0005	.002	-.30
	-.20	.049	-.009	-.008	.006	-.0005	.001	-.20
	-.10	.049	-.008	-.006	.003	-.0005	-.000	-.10
	-.05	.049	-.005	-.006	.002	-.0005	-.000	-.05
	0.00	.050	-.010	-.007	.002	-.0005	-.000	0.00
	0.00	.050	-.010	-.007	.002	-.0005	-.001	0.00
	.05	.049	-.007	-.005	-.002	-.0005	-.001	.05
	.10	.049	-.008	-.006	-.000	-.0005	-.001	.10
	.20	.049	-.008	-.007	.004	-.0005	-.000	.20
	.30	.049	.007	-.005	.010	-.0004	.001	.30
	.40	.049	.057	.006	.019	-.0005	.002	.40

5	-.40	.045	.056	.022	.015	-.0003	.006	-.40
	-.30	.051	.008	.008	.007	-.0005	.004	-.30
	-.20	.052	-.006	.003	.000	-.0006	.002	-.20
	-.10	.052	-.007	.002	-.002	-.0005	.000	-.10
	-.05	.052	-.005	.003	-.002	-.0005	-.000	-.05
	0.00	.052	-.010	.001	.002	-.0006	-.000	0.00
	0.00	.052	-.012	.001	.002	-.0006	-.001	0.00
	.05	.051	-.007	.003	.002	-.0006	-.001	.05
	.10	.051	-.009	.002	.004	-.0006	-.001	.10
	.20	.052	-.006	.004	.009	-.0006	-.001	.20
	.30	.050	.011	.009	.015	-.0005	-.001	.30
	.40	.044	.063	.023	.022	-.0004	-.000	.40

10	-.40	.043	.078	.012	.005	-.0005	.004	-.40
	-.30	.051	.031	.003	.001	-.0004	.002	-.30
	-.20	.053	.017	.006	-.001	-.0004	.001	-.20
	-.10	.053	.017	.007	-.001	-.0006	.001	-.10
	-.05	.053	.019	.008	-.000	-.0005	.000	-.05
	0.00	.054	.015	.007	.001	-.0006	-.000	0.00
	0.00	.054	.012	.007	.002	-.0006	-.000	0.00
	.05	.052	.019	.009	.001	-.0005	-.000	.05
	.10	.053	.017	.008	.003	-.0006	-.000	.10
	.20	.054	.018	.006	.006	-.0006	.000	.20
	.30	.052	.033	.002	.011	-.0005	.001	.30
	.40	.044	.081	.010	.018	-.0005	.001	.40

15	-.40	.038	.120	.006	.017	.0003	.001	-.40
	-.30	.051	.070	-.000	.008	-.0000	-.001	-.30
	-.20	.054	.051	.004	.002	-.0004	-.001	-.20
	-.10	.053	.050	.008	-.001	-.0006	-.001	-.10
	-.05	.052	.051	.009	-.002	-.0006	-.001	-.05
	0.00	.054	.047	.008	.001	-.0006	-.001	0.00
	0.00	.054	.046	.007	.002	-.0006	-.001	0.00
	.05	.052	.048	.009	.000	-.0006	-.000	.05
	.10	.053	.047	.008	.001	-.0007	.000	.10
	.20	.054	.052	.005	.005	-.0007	.001	.20
	.30	.051	.071	-.000	.009	-.0005	.003	.30
	.40	.038	.127	.005	.017	-.0001	.004	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	.032	.160	.006	.015	.0003	.000	-.40
	-.30	.048	.114	.003	.008	-.0001	-.001	-.30
	-.20	.052	.096	.006	.005	-.0005	-.002	-.20
	-.10	.050	.094	.011	.003	-.0006	-.002	-.10
	-.05	.049	.096	.013	.003	-.0008	-.003	-.05
	0.00	.051	.090	.012	.004	-.0006	-.003	0.00
	0.00	.050	.091	.013	.003	-.0006	-.003	0.00
	.05	.050	.095	.013	.003	-.0008	-.002	.05
	.10	.050	.093	.012	.004	-.0008	-.002	.10
	.20	.051	.096	.008	.005	-.0006	-.000	.20
	.30	.048	.113	.001	.007	-.0004	.001	.30
	.40	.032	.165	.003	.013	-.0002	.003	.40
25	-.40	.032	.206	.005	.022	.0004	.005	-.40
	-.30	.048	.153	.004	.010	.0001	.002	-.30
	-.20	.050	.136	.008	.002	-.0002	-.001	-.20
	-.10	.047	.132	.015	-.005	-.0005	-.003	-.10
	-.05	.045	.134	.017	-.007	-.0006	-.003	-.05
	0.00	.047	.128	.017	-.007	-.0006	-.004	0.00
	0.00	.047	.129	.017	-.008	-.0006	-.003	0.00
	.05	.046	.128	.017	-.010	-.0007	-.003	.05
	.10	.047	.128	.015	-.009	-.0007	-.002	.10
	.20	.049	.132	.011	-.002	-.0007	.000	.20
	.30	.046	.152	.005	.011	-.0005	.003	.30
	.40	.030	.209	.004	.027	-.0003	.008	.40
30	-.40	.026	.252	.008	.011	.0002	.002	-.40
	-.30	.043	.195	.012	-.002	-.0000	.003	-.30
	-.20	.046	.179	.014	-.004	-.0002	-.001	-.20
	-.10	.043	.178	.022	-.007	-.0004	-.003	-.10
	-.05	.042	.181	.024	-.007	-.0005	-.004	-.05
	0.00	.043	.178	.025	-.002	-.0007	-.004	0.00
	0.00	.044	.179	.023	-.005	-.0007	-.003	0.00
	.05	.041	.183	.024	-.005	-.0006	-.003	.05
	.10	.042	.178	.022	-.004	-.0007	-.002	.10
	.20	.046	.183	.019	.006	-.0008	-.001	.20
	.30	.044	.200	.014	.025	-.0007	.003	.30
	.40	.031	.258	-.005	.039	-.0004	.016	.40
35	-.40	.022	.339	-.022	.006	.0009	-.017	-.40
	-.30	.042	.275	.013	-.016	.0003	-.010	-.30
	-.20	.045	.246	.023	-.026	-.0001	-.005	-.20
	-.10	.042	.241	.030	-.018	-.0005	-.004	-.10
	-.05	.040	.240	.032	-.009	-.0006	-.004	-.05
	0.00	.042	.235	.033	.007	-.0007	-.004	0.00
	0.00	.041	.229	.031	.003	-.0008	-.003	0.00
	.05	.041	.239	.031	.009	-.0008	-.001	.05
	.10	.043	.240	.030	.017	-.0008	.000	.10
	.20	.046	.250	.025	.029	-.0008	.007	.20
	.30	.043	.286	.003	.033	-.0004	.021	.30
	.40	.019	.373	-.034	.038	.0004	.033	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	.019	.436	-.017	-.013	.0007	.002	-.40
	-.30	.039	.365	-.012	-.021	.0003	-.021	-.30
	-.20	.044	.327	-.004	-.025	-.0000	-.027	-.20
	-.10	.039	.290	.030	-.024	-.0003	-.010	-.10
	-.05	.037	.287	.036	-.007	-.0005	-.003	-.05
	0.00	.040	.291	.028	.017	-.0006	.009	0.00
	0.00	.039	.293	.028	.009	-.0006	.007	0.00
	.05	.038	.305	.016	.020	-.0005	.018	.05
	.10	.041	.318	.004	.027	-.0004	.025	.10
	.20	.044	.337	-.003	.036	-.0005	.027	.20
	.30	.041	.384	-.017	.044	-.0002	.024	.30
	.40	.020	.441	-.009	.066	.0000	.011	.40
45	-.40	.014	.498	.001	-.002	.0007	.005	-.40
	-.30	.034	.449	.005	-.053	.0004	.001	-.30
	-.20	.041	.414	-.001	-.062	.0001	-.011	-.20
	-.10	.037	.357	.026	-.032	-.0002	-.016	-.10
	-.05	.035	.341	.040	.004	-.0004	.001	-.05
	0.00	.041	.355	.022	.037	-.0004	.016	0.00
	0.00	.041	.354	.021	.038	-.0005	.015	0.00
	.05	.040	.377	.008	.047	-.0004	.022	.05
	.10	.042	.394	.005	.059	-.0004	.018	.10
	.20	.040	.425	.009	.079	-.0005	.006	.20
	.30	.036	.455	.009	.086	-.0002	.000	.30
	.40	.014	.491	-.005	.055	.0005	-.003	.40
50	-.40	.010	.543	-.018	.034	.0007	.013	-.40
	-.30	.028	.499	.001	-.003	.0003	-.002	-.30
	-.20	.031	.462	.013	-.041	-.0000	-.006	-.20
	-.10	.027	.412	.036	-.049	-.0002	-.010	-.10
	-.05	.024	.382	.057	.007	-.0006	.001	-.05
	0.00	.028	.408	.035	.057	-.0005	.013	0.00
	0.00	.028	.400	.037	.053	-.0005	.011	0.00
	.05	.027	.444	.015	.068	-.0006	.012	.05
	.10	.029	.454	.019	.061	-.0006	.012	.10
	.20	.032	.475	.020	.034	-.0004	.010	.20
	.30	.029	.488	.013	.022	-.0000	.004	.30
	.40	.012	.550	-.014	-.013	.0008	-.009	.40
55	-.40	.006	.547	-.016	.075	.0006	.022	-.40
	-.30	.024	.522	.010	.022	.0002	.005	-.30
	-.20	.027	.486	.023	-.012	-.0002	-.007	-.20
	-.10	.023	.449	.050	-.047	-.0004	-.015	-.10
	-.05	.022	.412	.070	-.001	-.0007	.001	-.05
	0.00	.028	.447	.043	.055	-.0007	.017	0.00
	0.00	.029	.448	.044	.058	-.0007	.017	0.00
	.05	.023	.467	.037	.053	-.0008	.019	.05
	.10	.025	.481	.034	.040	-.0006	.016	.10
	.20	.028	.504	.026	.016	-.0005	.008	.20
	.30	.025	.533	.009	-.007	.0001	-.006	.30
	.40	.009	.540	-.015	-.027	.0006	-.024	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	.006	.515	-.029	.109	.0008	.058	-.40
	-.30	.021	.514	.020	.034	.0003	.018	-.30
	-.20	.023	.501	.041	.001	-.0003	.001	-.20
	-.10	.018	.467	.063	-.027	-.0006	-.012	-.10
	-.05	.016	.450	.076	.004	-.0008	.001	-.05
	0.00	.021	.469	.064	.042	-.0008	.018	0.00
	0.00	.022	.468	.065	.042	-.0008	.019	0.00
	.05	.018	.473	.065	.034	-.0009	.017	.05
	.10	.020	.481	.058	.027	-.0008	.013	.10
	.20	.022	.513	.043	.004	-.0005	-.000	.20
	.30	.019	.531	.012	-.027	-.0000	-.023	.30
	.40	.003	.531	-.037	-.047	.0007	-.053	.40
65	-.40	-.001	.507	-.054	.156	.0003	.071	-.40
	-.30	.015	.507	.009	.072	.0000	.047	-.30
	-.20	.018	.503	.047	.032	-.0002	.022	-.20
	-.10	.015	.486	.067	.000	-.0005	.004	-.10
	-.05	.013	.471	.080	-.007	-.0006	-.001	-.05
	0.00	.017	.484	.069	.032	-.0006	.014	0.00
	0.00	.017	.477	.073	.029	-.0007	.012	0.00
	.05	.014	.490	.066	.022	-.0007	.008	.05
	.10	.015	.501	.064	.010	-.0007	-.000	.10
	.20	.018	.512	.043	-.018	-.0007	-.023	.20
	.30	.016	.537	-.002	-.043	-.0001	-.044	.30
	.40	.001	.543	-.065	-.068	.0005	-.075	.40
70	-.40	.012	.561	-.066	.114	.0005	.069	-.40
	-.30	.016	.538	.000	.082	.0001	.057	-.30
	-.20	.014	.510	.041	.053	-.0002	.040	-.20
	-.10	.009	.500	.064	.016	-.0005	.015	-.10
	-.05	.007	.495	.068	.009	-.0006	.007	-.05
	0.00	.013	.494	.069	.005	-.0007	.001	0.00
	0.00	.013	.494	.069	.003	-.0007	-.000	0.00
	.05	.008	.503	.067	-.006	-.0007	-.007	.05
	.10	.009	.510	.059	-.012	-.0007	-.015	.10
	.20	.011	.520	.041	-.034	-.0007	-.037	.20
	.30	.012	.543	-.006	-.051	-.0002	-.057	.30
	.40	.026	.553	-.098	.006	.0008	-.049	.40
75	-.40	.042	.615	-.135	.064	.0004	.057	-.40
	-.30	.018	.542	-.010	.063	-.0001	.055	-.30
	-.20	.012	.521	.035	.044	-.0003	.039	-.20
	-.10	.008	.510	.052	.018	-.0005	.018	-.10
	-.05	.005	.506	.056	.008	-.0006	.009	-.05
	0.00	.007	.505	.057	.002	-.0006	-.001	0.00
	0.00	.008	.507	.057	.002	-.0006	-.002	0.00
	.05	.007	.509	.054	-.008	-.0006	-.010	.05
	.10	.008	.515	.050	-.014	-.0006	-.019	.10
	.20	.012	.535	.027	-.030	-.0005	-.039	.20
	.30	.016	.550	-.012	-.036	-.0001	-.055	.30
	.40	.046	.643	-.166	.025	.0014	-.062	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	.048	.649	-.137	.022	.0002	.062	-.40
	-.30	.040	.532	-.064	.018	-.0001	.043	-.30
	-.20	.015	.530	.011	.028	-.0003	.037	-.20
	-.10	.013	.521	.020	.008	-.0004	.016	-.10
	-.05	.012	.517	.021	.006	-.0003	.008	-.05
	0.00	.010	.516	.026	.004	-.0004	-.001	0.00
	0.00	.011	.506	.023	.004	-.0005	-.001	0.00
	.05	.008	.517	.024	-.002	-.0004	-.009	.05
	.10	.010	.526	.017	-.008	-.0003	-.020	.10
	.20	.017	.524	-.001	-.010	-.0003	-.034	.20
	.30	.043	.564	-.082	.008	.0005	-.041	.30
	.40	.054	.661	-.146	.022	.0012	-.063	.40
85	-.40	.060	.633	-.103	.004	-.0001	.059	-.40
	-.30	.045	.606	-.086	.003	.0000	.048	-.30
	-.20	.034	.511	-.070	.001	-.0001	.033	-.20
	-.10	.016	.496	-.030	-.001	-.0001	.014	-.10
	-.05	.016	.484	-.032	-.000	-.0001	.007	-.05
	0.00	.015	.472	-.033	.001	-.0001	-.001	0.00
	0.00	.019	.480	-.034	.001	-.0001	-.001	0.00
	.05	.019	.485	-.036	-.001	.0000	-.008	.05
	.10	.021	.492	-.039	.001	-.0000	-.015	.10
	.20	.034	.512	-.072	.010	.0003	-.031	.20
	.30	.045	.621	-.099	.016	.0006	-.047	.30
	.40	.059	.651	-.134	.028	.0009	-.060	.40
90	-.40	.066	.669	-.114	-.001	.0000	.062	-.40
	-.30	.045	.625	-.098	-.009	-.0000	.052	-.30
	-.20	.033	.513	-.093	-.008	-.0002	.033	-.20
	-.10	.026	.478	-.086	-.007	-.0001	.015	-.10
	-.05	.024	.473	-.087	-.005	.0000	.007	-.05
	0.00	.024	.467	-.085	.000	-.0000	-.001	0.00
	0.00	.030	.480	-.090	.001	.0002	-.001	0.00
	.05	.030	.476	-.089	.004	.0001	-.008	.05
	.10	.030	.483	-.090	.009	.0002	-.017	.10
	.20	.036	.518	-.100	.020	.0005	-.034	.20
	.30	.047	.612	-.111	.029	.0008	-.051	.30
	.40	.067	.655	-.130	.037	.0012	-.062	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.028	.057	.018	.018	-.0003	.006	-.40
	-.30	.030	.002	-.002	.009	-.0001	.003	-.30
	-.20	.031	-.015	-.007	.003	-.0000	.001	-.20
	-.10	.030	-.014	-.006	.001	-.0000	-.000	-.10
	-.05	.030	-.013	-.005	.000	-.0000	-.000	-.05
	0.00	.028	-.021	-.007	.005	-.0000	-.001	0.00
	0.00	.030	-.018	-.007	.002	-.0000	-.000	0.00
	.05	.029	-.014	-.005	.001	-.0000	-.000	.05
	.10	.030	-.016	-.005	.003	-.0000	-.000	.10
	.20	.030	-.017	-.005	.005	-.0000	.001	.20
	.30	.030	-.001	.000	.008	-.0001	.002	.30
	.40	.028	.054	.020	.012	-.0002	.004	.40

5	-.40	.025	.062	.028	.001	-.0002	.008	-.40
	-.30	.031	.008	.009	-.002	-.0001	.004	-.30
	-.20	.033	-.008	.003	-.002	-.0001	.002	-.20
	-.10	.033	-.007	.002	-.000	.0000	.000	-.10
	-.05	.033	-.006	.003	.001	-.0000	-.000	-.05
	0.00	.034	-.010	.001	.003	-.0001	-.001	0.00
	0.00	.034	-.010	.001	.003	-.0001	-.001	0.00
	.05	.033	-.008	.003	.001	.0000	-.001	.05
	.10	.033	-.009	.003	.002	.0001	-.001	.10
	.20	.033	-.007	.004	.007	-.0001	-.001	.20
	.30	.031	.011	.010	.011	-.0002	.000	.30
	.40	.025	.068	.028	.019	-.0004	.002	.40

10	-.40	.023	.080	.040	.001	.0001	.005	-.40
	-.30	.034	.025	.016	.000	.0000	.003	-.30
	-.20	.035	.007	.010	-.001	.0000	.001	-.20
	-.10	.035	.006	.009	-.000	-.0000	.001	-.10
	-.05	.035	.008	.008	.000	-.0001	.000	-.05
	0.00	.037	.005	.007	.002	-.0001	-.000	0.00
	0.00	.036	.005	.006	.001	-.0001	-.000	0.00
	.05	.035	.010	.008	.002	-.0001	.000	.05
	.10	.035	.009	.009	.003	-.0001	.000	.10
	.20	.036	.012	.010	.005	-.0000	.001	.20
	.30	.033	.031	.013	.008	-.0001	.002	.30
	.40	.022	.089	.033	.012	.0000	.005	.40

15	-.40	.017	.132	.040	.008	.0007	.003	-.40
	-.30	.032	.071	.016	.005	.0002	.001	-.30
	-.20	.032	.049	.012	.002	-.0000	.001	-.20
	-.10	.032	.044	.012	.002	-.0001	-.000	-.10
	-.05	.031	.046	.012	.001	-.0002	-.001	-.05
	0.00	.032	.042	.010	.002	-.0002	-.001	0.00
	0.00	.032	.042	.010	.002	-.0002	-.001	0.00
	.05	.031	.048	.012	.001	-.0003	-.000	.05
	.10	.031	.047	.012	.002	-.0004	-.000	.10
	.20	.032	.051	.015	.004	-.0004	.001	.20
	.30	.032	.073	.018	.006	-.0002	.003	.30
	.40	.018	.133	.039	.010	.0001	.005	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	.014	.176	.035	.014	.0005	.001	-.40
	-.30	.027	.117	.021	.006	.0003	.001	-.30
	-.20	.030	.096	.017	.003	-.0000	-.001	-.20
	-.10	.029	.094	.019	.001	-.0001	-.002	-.10
	-.05	.027	.095	.019	.001	-.0002	-.002	-.05
	0.00	.029	.090	.018	.005	-.0003	-.003	0.00
	0.00	.029	.091	.017	.006	-.0003	-.002	0.00
	.05	.028	.093	.018	.004	-.0002	-.002	.05
	.10	.029	.091	.018	.004	-.0003	-.002	.10
	.20	.030	.094	.017	.004	-.0003	.000	.20
	.30	.026	.118	.018	.006	-.0002	.004	.30
	.40	.013	.183	.033	.011	-.0001	.009	.40
25	-.40	.007	.238	.051	-.001	.0001	-.008	-.40
	-.30	.024	.164	.037	-.006	.0002	-.002	-.30
	-.20	.029	.136	.029	-.004	.0001	-.001	-.20
	-.10	.028	.130	.028	-.001	-.0000	-.003	-.10
	-.05	.027	.128	.027	-.000	-.0001	-.003	-.05
	0.00	.029	.121	.026	.000	-.0004	-.003	0.00
	0.00	.030	.124	.026	.001	-.0004	-.003	0.00
	.05	.027	.127	.026	-.001	-.0001	-.002	.05
	.10	.029	.125	.026	.002	-.0003	-.002	.10
	.20	.030	.132	.028	.008	-.0005	.000	.20
	.30	.024	.162	.035	.012	-.0004	.006	.30
	.40	.006	.244	.042	.009	-.0001	.017	.40
30	-.40	.000	.342	.024	.018	.0008	-.030	-.40
	-.30	.025	.242	.036	-.010	.0004	-.021	-.30
	-.20	.029	.195	.041	-.022	.0003	-.009	-.20
	-.10	.027	.183	.038	-.015	-.0000	-.005	-.10
	-.05	.026	.178	.037	-.007	-.0002	-.004	-.05
	0.00	.027	.173	.038	.001	-.0004	-.003	0.00
	0.00	.027	.174	.037	.003	-.0004	-.003	0.00
	.05	.025	.179	.038	.007	-.0003	-.003	.05
	.10	.026	.178	.039	.016	-.0004	-.002	.10
	.20	.028	.186	.043	.024	-.0005	.005	.20
	.30	.024	.227	.039	.010	-.0001	.019	.30
	.40	.003	.306	.056	.021	.0000	-.007	.40
35	-.40	-.018	.438	.046	.030	.0008	-.030	-.40
	-.30	.021	.341	.026	-.012	.0006	-.027	-.30
	-.20	.031	.284	.022	-.022	.0002	-.033	-.20
	-.10	.034	.249	.025	-.018	.0000	-.024	-.10
	-.05	.031	.236	.034	-.014	-.0001	-.015	-.05
	0.00	.032	.221	.044	.008	-.0004	-.004	0.00
	0.00	.033	.223	.043	.007	-.0003	-.006	0.00
	.05	.029	.221	.047	.021	-.0003	-.001	.05
	.10	.030	.226	.048	.033	-.0005	.007	.10
	.20	.029	.256	.046	.026	-.0004	.021	.20
	.30	.019	.320	.042	.041	-.0002	-.017	.30
	.40	-.017	.397	.080	.030	.0000	-.021	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.009	.477	.094	-.011	.0006	.003	-.40
	-.30	.016	.414	.063	-.028	.0005	-.006	-.30
	-.20	.025	.373	.039	-.056	.0003	-.019	-.20
	-.10	.024	.331	.023	-.036	.0002	-.030	-.10
	-.05	.022	.320	.030	-.017	-.0000	-.024	-.05
	0.00	.022	.286	.051	.026	-.0004	-.000	0.00
	0.00	.024	.293	.049	.026	-.0004	-.001	0.00
	.05	.022	.303	.049	.046	-.0003	.019	.05
	.10	.026	.308	.039	.058	-.0002	.027	.10
	.20	.027	.344	.039	.059	-.0003	.002	.20
	.30	.022	.409	.047	.034	-.0001	-.009	.30
	.40	-.006	.478	.074	-.008	.0004	-.004	.40
45	-.40	-.020	.551	.117	.048	.0004	-.006	-.40
	-.30	.013	.491	.079	-.008	.0003	-.019	-.30
	-.20	.024	.433	.057	-.058	.0002	-.019	-.20
	-.10	.024	.401	.036	-.071	.0002	-.020	-.10
	-.05	.022	.355	.049	-.026	-.0002	-.013	-.05
	0.00	.025	.360	.047	.073	-.0002	.019	0.00
	0.00	.027	.357	.045	.069	-.0002	.017	0.00
	.05	.026	.412	.028	.098	-.0002	.019	.05
	.10	.028	.447	.031	.109	-.0002	.010	.10
	.20	.027	.445	.062	.066	-.0003	.022	.20
	.30	.013	.495	.083	-.009	.0001	.014	.30
	.40	-.019	.576	.102	-.033	.0006	-.002	.40
50	-.40	-.027	.558	.098	.078	.0006	.018	-.40
	-.30	.008	.523	.087	.027	.0003	-.005	-.30
	-.20	.020	.485	.076	-.006	.0000	-.020	-.20
	-.10	.021	.430	.053	-.050	-.0001	-.022	-.10
	-.05	.020	.389	.059	-.024	-.0002	-.008	-.05
	0.00	.026	.428	.046	.086	-.0001	.026	0.00
	0.00	.027	.430	.044	.087	.0001	.028	0.00
	.05	.023	.448	.065	.071	-.0002	.034	.05
	.10	.022	.461	.077	.053	-.0004	.031	.10
	.20	.020	.473	.082	.023	-.0003	.023	.20
	.30	.006	.535	.085	-.043	.0002	-.000	.30
	.40	-.032	.595	.089	-.073	.0008	-.030	.40
55	-.40	-.026	.592	.089	.065	.0006	.030	-.40
	-.30	.004	.546	.100	.029	.0002	.009	-.30
	-.20	.013	.525	.083	.005	.0001	-.008	-.20
	-.10	.013	.486	.067	-.020	-.0001	-.021	-.10
	-.05	.012	.427	.074	-.004	-.0002	-.004	-.05
	0.00	.016	.475	.070	.060	.0000	.034	0.00
	0.00	.015	.469	.072	.060	-.0000	.033	0.00
	.05	.013	.487	.077	.039	-.0002	.027	.05
	.10	.014	.500	.085	.038	-.0004	.024	.10
	.20	.015	.546	.092	.003	-.0003	.004	.20
	.30	.007	.555	.091	-.025	.0001	-.017	.30
	.40	-.024	.567	.054	-.060	.0009	-.044	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.028	.604	.039	.109	.0009	.046	-.40
	-.30	.005	.564	.073	.062	.0004	.025	-.30
	-.20	.016	.528	.088	.012	.0001	.003	-.20
	-.10	.017	.487	.088	-.016	-.0001	-.016	-.10
	-.05	.014	.443	.089	.002	-.0003	-.002	-.05
	0.00	.019	.482	.081	.058	-.0003	.032	0.00
	0.00	.020	.477	.087	.058	-.0004	.031	0.00
	.05	.018	.505	.094	.051	-.0004	.027	.05
	.10	.019	.518	.100	.033	-.0004	.015	.10
	.20	.016	.548	.101	.008	-.0004	-.003	.20
	.30	.003	.563	.073	-.026	.0002	-.029	.30
	.40	-.031	.564	.004	-.066	.0010	-.069	.40
65	-.40	-.027	.563	-.019	.115	.0008	.065	-.40
	-.30	.003	.553	.042	.082	.0003	.050	-.30
	-.20	.014	.532	.084	.043	.0001	.029	-.20
	-.10	.012	.508	.094	.032	-.0001	.017	-.10
	-.05	.012	.503	.092	.026	-.0002	.012	-.05
	0.00	.014	.504	.095	.021	-.0004	.007	0.00
	0.00	.014	.510	.095	.042	-.0004	.021	0.00
	.05	.011	.521	.104	.031	-.0005	.013	.05
	.10	.012	.532	.101	.015	-.0004	.001	.10
	.20	.012	.539	.084	-.016	-.0003	-.026	.20
	.30	.001	.565	.043	-.046	.0003	-.054	.30
	.40	-.025	.551	-.031	-.057	.0012	-.076	.40
70	-.40	.002	.609	-.081	.051	.0012	.067	-.40
	-.30	.002	.558	.040	.071	.0002	.056	-.30
	-.20	.006	.547	.070	.049	.0000	.038	-.20
	-.10	.003	.529	.090	.024	-.0002	.015	-.10
	-.05	.003	.528	.088	.017	-.0003	.007	-.05
	0.00	.009	.522	.093	.013	-.0004	.001	0.00
	0.00	.007	.514	.093	.008	-.0004	-.002	0.00
	.05	.003	.524	.089	-.004	-.0004	-.014	.05
	.10	.003	.522	.092	-.003	-.0005	-.016	.10
	.20	.005	.546	.071	-.025	-.0002	-.039	.20
	.30	.001	.549	.032	-.036	.0003	-.057	.30
	.40	.002	.565	-.078	-.015	.0014	-.066	.40
75	-.40	-.000	.650	-.090	.062	.0006	.067	-.40
	-.30	.019	.514	-.026	.032	.0003	.045	-.30
	-.20	.014	.517	.048	.050	.0000	.045	-.20
	-.10	.012	.519	.071	.026	.0000	.021	-.10
	-.05	.009	.509	.071	.014	.0000	.008	-.05
	0.00	.008	.507	.067	.009	-.0001	-.002	0.00
	0.00	.009	.522	.065	.001	-.0003	-.007	0.00
	.05	.008	.512	.070	-.000	-.0002	-.014	.05
	.10	.010	.506	.064	-.007	-.0001	-.023	.10
	.20	.014	.528	.040	-.015	.0000	-.039	.20
	.30	.016	.507	-.028	-.010	.0004	-.046	.30
	.40	.002	.633	-.117	.001	.0014	-.071	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A2

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
80	-.40	.008	.647	-.104	.014	.0006	.068	-.40
	-.30	.030	.601	-.066	.022	.0005	.053	-.30
	-.20	.018	.512	.024	.033	.0000	.041	-.20
	-.10	.015	.500	.038	.020	.0000	.020	-.10
	-.05	.015	.512	.038	.015	.0000	.009	-.05
	0.00	.013	.507	.046	.010	-.0001	-.002	0.00
	0.00	.014	.502	.037	.010	-.0001	-.000	0.00
	.05	.015	.517	.036	.007	.0000	-.011	.05
	.10	.015	.504	.034	.000	-.0000	-.023	.10
	.20	.017	.508	.010	-.008	.0002	-.041	.20
	.30	.028	.601	-.083	-.000	.0009	-.054	.30
	.40	.007	.653	-.117	.001	.0012	-.071	.40
85	-.40	.023	.647	-.071	.011	.0005	.067	-.40
	-.30	.034	.600	-.056	.013	.0004	.055	-.30
	-.20	.037	.517	-.058	.009	.0005	.037	-.20
	-.10	.028	.478	-.028	.008	.0004	.016	-.10
	-.05	.025	.467	-.021	.008	.0004	.008	-.05
	0.00	.024	.466	-.016	.011	.0003	-.000	0.00
	0.00	.022	.477	-.016	.009	.0003	-.002	0.00
	.05	.025	.469	-.021	.010	.0004	-.008	.05
	.10	.026	.478	-.024	.009	.0004	-.018	.10
	.20	.038	.500	-.066	.010	.0008	-.037	.20
	.30	.036	.603	-.078	.006	.0011	-.057	.30
	.40	.027	.665	-.102	.011	.0016	-.068	.40
90	-.40	.043	.640	-.070	.007	.0007	.067	-.40
	-.30	.041	.586	-.068	-.003	.0005	.056	-.30
	-.20	.035	.534	-.073	-.006	.0004	.039	-.20
	-.10	.031	.461	-.072	-.004	.0004	.017	-.10
	-.05	.031	.446	-.075	-.002	.0004	.007	-.05
	0.00	.030	.448	-.072	.002	.0006	-.001	0.00
	0.00	.032	.452	-.078	.003	.0006	-.001	0.00
	.05	.034	.454	-.076	.004	.0006	-.009	.05
	.10	.033	.461	-.075	.008	.0007	-.018	.10
	.20	.036	.533	-.079	.017	.0010	-.040	.20
	.30	.041	.583	-.091	.027	.0013	-.055	.30
	.40	.038	.653	-.093	.028	.0017	-.066	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.027	.066	.029	.014	.0002	.006	-.40
	-.30	.029	.001	.000	.008	.0003	.003	-.30
	-.20	.029	-.021	-.008	.006	.0004	.001	-.20
	-.10	.029	-.022	-.008	.005	.0004	-.000	-.10
	-.05	.029	-.020	-.007	.004	.0004	-.000	-.05
	0.00	.029	-.025	-.010	.004	.0004	-.000	0.00
	0.00	.029	-.026	-.010	.004	.0004	-.000	0.00
	.05	.028	-.023	-.008	-.000	.0004	-.001	.05
	.10	.028	-.024	-.008	.001	.0004	-.001	.10
	.20	.028	-.020	-.006	.004	.0004	.000	.20
	.30	.029	.005	.005	.009	.0003	.002	.30
	.40	.027	.079	.038	.016	.0001	.006	.40

5	-.40	.023	.078	.036	.006	.0001	.008	-.40
	-.30	.030	.012	.009	.001	.0003	.004	-.30
	-.20	.031	-.009	.002	-.001	.0003	.002	-.20
	-.10	.031	-.009	.002	-.001	.0003	.000	-.10
	-.05	.031	-.007	.003	.001	.0004	-.000	-.05
	0.00	.032	-.010	.001	.003	.0002	-.000	0.00
	0.00	.031	-.011	.001	.002	.0002	-.001	0.00
	.05	.030	-.006	.003	.002	.0003	-.001	.05
	.10	.031	-.008	.003	.005	.0003	-.001	.10
	.20	.031	-.007	.005	.009	.0003	-.000	.20
	.30	.030	.014	.016	.014	.0002	.001	.30
	.40	.024	.079	.048	.020	-.0001	.003	.40

10	-.40	.016	.103	.052	.015	.0006	.005	-.40
	-.30	.030	.034	.019	.006	.0005	.002	-.30
	-.20	.033	.010	.011	.001	.0003	.001	-.20
	-.10	.034	.008	.009	.000	.0002	.000	-.10
	-.05	.033	.010	.010	.000	.0003	-.000	-.05
	0.00	.034	.003	.007	.003	.0003	-.000	0.00
	0.00	.034	.003	.006	.002	.0003	.000	0.00
	.05	.034	.009	.010	.003	.0003	-.000	.05
	.10	.034	.007	.009	.004	.0001	.000	.10
	.20	.034	.011	.012	.007	.0002	.001	.20
	.30	.030	.034	.017	.009	.0003	.002	.30
	.40	.017	.103	.050	.014	.0004	.004	.40

15	-.40	.009	.151	.072	.007	.0006	.005	-.40
	-.30	.028	.077	.034	.003	.0004	.002	-.30
	-.20	.033	.049	.021	.002	.0003	.001	-.20
	-.10	.034	.044	.019	.002	.0001	-.000	-.10
	-.05	.033	.045	.019	.002	.0002	-.001	-.05
	0.00	.036	.037	.016	.004	.0002	-.001	0.00
	0.00	.036	.040	.017	.003	.0002	-.001	0.00
	.05	.034	.043	.019	.001	.0002	-.001	.05
	.10	.034	.042	.019	.004	.0000	-.001	.10
	.20	.033	.049	.023	.008	.0000	-.000	.20
	.30	.028	.080	.034	.015	.0000	.002	.30
	.40	.008	.159	.072	.023	.0002	.005	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	.004	.213	.081	.006	.0009	-.007	-.40
	-.30	.027	.129	.051	-.004	.0006	-.001	-.30
	-.20	.032	.096	.036	-.004	.0004	-.000	-.20
	-.10	.032	.091	.033	.000	.0001	-.002	-.10
	-.05	.031	.092	.033	.003	.0001	-.002	-.05
	0.00	.035	.082	.030	.009	.0001	-.003	0.00
	0.00	.034	.081	.030	.006	.0001	-.003	0.00
	.05	.029	.094	.041	.010	.0000	-.002	.05
	.10	.030	.093	.041	.015	-.0002	-.002	.10
	.20	.032	.099	.043	.022	-.0002	.001	.20
	.30	.029	.128	.046	.027	.0001	.007	.30
	.40	.006	.214	.066	.026	.0004	.017	.40
25	-.40	.002	.306	.066	.022	.0009	-.027	-.40
	-.30	.028	.200	.055	-.006	.0006	-.019	-.30
	-.20	.028	.147	.052	-.017	.0004	-.004	-.20
	-.10	.024	.137	.049	.002	.0002	-.002	-.10
	-.05	.022	.139	.047	.014	.0001	-.003	-.05
	0.00	.026	.134	.043	.028	-.0000	-.002	0.00
	0.00	.026	.135	.045	.027	.0000	-.002	0.00
	.05	.024	.139	.047	.035	-.0000	-.000	.05
	.10	.028	.142	.046	.039	-.0002	.004	.10
	.20	.032	.162	.047	.035	-.0001	.016	.20
	.30	.024	.216	.044	.019	.0003	.029	.30
	.40	-.003	.321	.072	.012	.0007	.034	.40
30	-.40	-.018	.385	.133	.015	.0002	-.025	-.40
	-.30	.018	.313	.057	.015	.0004	-.040	-.30
	-.20	.029	.231	.050	-.021	.0004	-.032	-.20
	-.10	.026	.185	.061	.000	.0002	-.002	-.10
	-.05	.028	.199	.047	.035	.0002	.012	-.05
	0.00	.034	.213	.030	.053	.0003	.030	0.00
	0.00	.032	.215	.030	.051	.0002	.030	0.00
	.05	.029	.224	.037	.052	.0001	.034	.05
	.10	.028	.233	.039	.047	.0001	.038	.10
	.20	.028	.273	.039	.018	.0002	.047	.20
	.30	.019	.307	.089	.035	.0001	.036	.30
	.40	-.017	.400	.143	.051	.0002	.034	.40
35	-.40	-.020	.450	.185	-.000	.0002	-.018	-.40
	-.30	.014	.367	.126	-.043	.0003	-.006	-.30
	-.20	.026	.325	.062	-.024	.0003	-.034	-.20
	-.10	.025	.256	.051	.023	.0004	.020	-.10
	-.05	.026	.295	.031	.061	.0004	.049	-.05
	0.00	.030	.310	.035	.070	.0003	.053	0.00
	0.00	.030	.311	.033	.053	.0004	.057	0.00
	.05	.028	.318	.056	.063	.0001	.047	.05
	.10	.029	.322	.070	.068	-.0000	.040	.10
	.20	.026	.338	.100	.084	-.0004	.022	.20
	.30	.016	.380	.134	.074	-.0003	.020	.30
	.40	-.022	.453	.189	.069	-.0002	.021	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.026	.533	.177	.029	.0004	-.025	-.40
	-.30	.011	.456	.143	-.009	.0003	-.033	-.30
	-.20	.021	.404	.100	-.063	.0003	-.013	-.20
	-.10	.025	.365	.042	.092	.0004	.050	-.10
	-.05	.023	.396	.052	.135	.0000	.042	-.05
	0.00	.026	.403	.063	.140	-.0002	.041	0.00
	0.00	.026	.401	.062	.133	-.0001	.042	0.00
	.05	.024	.410	.079	.123	-.0002	.042	.05
	.10	.026	.411	.092	.103	-.0003	.043	.10
	.20	.024	.424	.123	.073	-.0005	.041	.20
	.30	.010	.469	.147	.048	-.0002	.039	.30
	.40	-.031	.541	.182	.043	.0001	.022	.40
45	-.40	-.041	.566	.193	.066	.0004	.015	-.40
	-.30	.002	.538	.159	.017	.0001	-.025	-.30
	-.20	.020	.478	.112	-.036	.0001	-.031	-.20
	-.10	.021	.440	.083	.186	-.0004	.078	-.10
	-.05	.021	.450	.097	.164	-.0005	.077	-.05
	0.00	.025	.460	.098	.160	-.0005	.076	0.00
	0.00	.025	.451	.099	.146	-.0004	.076	0.00
	.05	.020	.470	.106	.114	-.0005	.076	.05
	.10	.021	.484	.108	.097	-.0005	.070	.10
	.20	.017	.515	.125	.064	-.0006	.051	.20
	.30	.003	.527	.153	.018	-.0003	.022	.30
	.40	-.040	.562	.185	-.010	-.0001	-.012	.40
50	-.40	-.039	.504	.161	.169	.0003	.043	-.40
	-.30	-.000	.545	.182	.058	-.0000	.015	-.30
	-.20	.014	.497	.115	.038	.0000	.006	-.20
	-.10	.012	.513	.103	.161	-.0005	.082	-.10
	-.05	.013	.510	.112	.140	-.0006	.076	-.05
	0.00	.017	.521	.128	.110	-.0007	.066	0.00
	0.00	.017	.518	.126	.112	-.0007	.069	0.00
	.05	.015	.525	.136	.096	-.0007	.057	.05
	.10	.016	.518	.145	.074	-.0008	.046	.10
	.20	.013	.524	.161	.044	-.0009	.021	.20
	.30	-.001	.527	.174	-.004	-.0005	-.006	.30
	.40	-.040	.548	.150	-.063	.0000	-.051	.40
55	-.40	-.052	.579	.091	.249	.0010	.070	-.40
	-.30	-.005	.527	.146	.131	.0003	.038	-.30
	-.20	.015	.526	.107	.174	-.0001	.070	-.20
	-.10	.019	.507	.146	.090	-.0004	.051	-.10
	-.05	.020	.499	.150	.082	-.0006	.049	-.05
	0.00	.022	.499	.163	.081	-.0008	.050	0.00
	0.00	.021	.509	.157	.091	-.0008	.047	0.00
	.05	.019	.510	.163	.072	-.0009	.042	.05
	.10	.019	.507	.170	.041	-.0010	.025	.10
	.20	.013	.510	.164	-.021	-.0007	-.014	.20
	.30	-.006	.523	.145	-.051	-.0002	-.040	.30
	.40	-.056	.580	.104	-.059	.0006	-.077	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A2

BETA= 0

ALPHA	$\Delta b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Delta b/2V$
60	-.40	-.027	.571	.052	.248	.0008	.070	-.40
	-.30	-.003	.580	.124	.196	-.0000	.051	-.30
	-.20	.006	.561	.146	.093	-.0002	.050	-.20
	-.10	.003	.530	.161	.035	-.0003	.033	-.10
	-.05	.002	.529	.167	.016	-.0005	.018	-.05
	0.00	.006	.525	.172	.000	-.0005	.005	0.00
	0.00	.005	.518	.171	-.006	-.0006	.002	0.00
	.05	.002	.521	.171	-.022	-.0006	-.010	.05
	.10	.004	.521	.169	-.031	-.0006	-.019	.10
	.20	.007	.530	.158	-.044	-.0006	-.037	.20
	.30	.001	.558	.130	-.050	-.0001	-.062	.30
	.40	-.026	.611	.066	-.047	.0004	-.097	.40
65	-.40	-.003	.573	-.012	.129	.0012	.066	-.40
	-.30	.003	.634	.092	.168	-.0000	.066	-.30
	-.20	.001	.582	.134	.108	-.0004	.051	-.20
	-.10	-.003	.557	.154	.042	-.0004	.034	-.10
	-.05	-.006	.556	.162	.023	-.0004	.020	-.05
	0.00	.004	.554	.165	.006	-.0006	.006	0.00
	0.00	.004	.553	.161	.010	-.0006	.007	0.00
	.05	-.008	.551	.166	-.010	-.0006	-.006	.05
	.10	-.005	.561	.161	-.019	-.0006	-.017	.10
	.20	.001	.587	.140	-.047	-.0004	-.048	.20
	.30	-.002	.597	.100	-.069	.0001	-.078	.30
	.40	-.009	.598	-.004	-.023	.0008	-.077	.40
70	-.40	-.032	.667	-.053	.102	.0012	.075	-.40
	-.30	-.006	.548	.061	.066	.0003	.066	-.30
	-.20	.012	.545	.104	.057	.0001	.049	-.20
	-.10	.018	.531	.126	.030	-.0002	.030	-.10
	-.05	.019	.551	.137	.018	-.0003	.017	-.05
	0.00	.023	.552	.131	.008	-.0004	.004	0.00
	0.00	.022	.552	.152	.002	-.0005	.001	0.00
	.05	.016	.570	.144	-.009	-.0004	-.012	.05
	.10	.015	.578	.140	-.020	-.0005	-.025	.10
	.20	.012	.605	.109	-.044	-.0002	-.055	.20
	.30	-.001	.606	.052	-.035	.0004	-.063	.30
	.40	-.025	.656	-.071	-.012	.0015	-.078	.40
75	-.40	-.032	.663	-.048	.068	.0009	.081	-.40
	-.30	.011	.603	-.026	.039	.0008	.059	-.30
	-.20	.021	.502	.072	.033	.0003	.040	-.20
	-.10	.019	.509	.097	.012	.0001	.018	-.10
	-.05	.019	.522	.100	.009	-.0000	.011	-.05
	0.00	.021	.545	.103	.009	-.0003	.003	0.00
	0.00	.020	.537	.106	.010	-.0003	.005	0.00
	.05	.021	.569	.109	-.003	-.0001	-.011	.05
	.10	.023	.599	.102	-.010	-.0001	-.025	.10
	.20	.024	.570	.062	-.011	.0000	-.038	.20
	.30	.007	.591	-.031	-.011	.0006	-.059	.30
	.40	-.035	.685	-.072	-.003	.0011	-.078	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.011	.693	-.051	.043	.0013	.079	-.40
	-.30	.019	.640	-.028	.027	.0010	.062	-.30
	-.20	.025	.514	.022	.016	.0004	.037	-.20
	-.10	.015	.527	.057	.008	.0000	.018	-.10
	-.05	.014	.531	.062	.005	-.0001	.008	-.05
	0.00	.013	.535	.066	.005	-.0001	.001	0.00
	0.00	.013	.552	.074	.006	-.0001	.002	0.00
	.05	.015	.554	.063	-.002	-.0000	-.010	.05
	.10	.017	.539	.054	.001	.0001	-.017	.10
	.20	.021	.522	.021	-.006	.0002	-.040	.20
	.30	.016	.650	-.026	-.005	.0000	-.063	.30
	.40	-.011	.697	-.064	.006	.0012	-.078	.40
85	-.40	.005	.680	-.031	.028	.0008	.078	-.40
	-.30	.023	.640	-.013	.019	.0006	.063	-.30
	-.20	.032	.572	-.012	.007	.0004	.042	-.20
	-.10	.024	.501	.006	.003	.0003	.017	-.10
	-.05	.021	.493	.012	.003	.0003	.008	-.05
	0.00	.019	.494	.013	.004	.0002	-.001	0.00
	0.00	.020	.493	.014	.005	.0002	.000	0.00
	.05	.020	.492	.011	.004	.0002	-.009	.05
	.10	.022	.498	.004	.002	.0003	-.020	.10
	.20	.031	.575	-.023	.003	.0006	-.044	.20
	.30	.028	.636	-.035	.005	.0006	-.063	.30
	.40	.010	.699	-.039	.005	.0008	-.078	.40
90	-.40	.023	.715	-.018	.008	.0005	.080	-.40
	-.30	.035	.623	-.030	.000	.0004	.060	-.30
	-.20	.035	.576	-.032	-.003	.0004	.042	-.20
	-.10	.032	.498	-.038	.000	.0003	.019	-.10
	-.05	.033	.487	-.042	.002	.0004	.008	-.05
	0.00	.034	.484	-.043	.004	.0004	-.002	0.00
	0.00	.033	.483	-.040	.004	.0003	-.002	0.00
	.05	.034	.483	-.040	.003	.0005	-.011	.05
	.10	.034	.490	-.041	.006	.0005	-.021	.10
	.20	.035	.564	-.044	.014	.0006	-.044	.20
	.30	.034	.622	-.051	.018	.0007	-.061	.30
	.40	.016	.704	-.039	.010	.0007	-.078	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.007	.099	.026	.009	-.0006	.016	-.40
	-.30	-.005	.040	-.001	-.004	-.0005	.007	-.30
	-.20	-.005	.025	-.006	-.012	-.0004	.002	-.20
	-.10	-.005	.027	-.002	-.015	-.0004	-.001	-.10
	-.05	-.005	.028	-.000	-.015	-.0004	-.001	-.05
	0.00	-.005	.020	-.003	-.014	-.0004	-.001	0.00
	0.00	-.005	.019	-.003	-.015	-.0004	-.001	0.00
	.05	-.005	.026	-.000	-.017	-.0004	-.002	.05
	.10	-.005	.024	-.001	-.015	-.0004	-.001	.10
	.20	-.005	.022	-.004	-.012	-.0004	.002	.20
	.30	-.005	.038	.002	-.006	-.0005	.007	.30
	.40	-.007	.095	.031	.002	-.0006	.014	.40

5	-.40	-.014	.113	.053	-.004	-.0008	.018	-.40
	-.30	-.006	.049	.019	-.014	-.0006	.009	-.30
	-.20	-.005	.029	.008	-.018	-.0006	.004	-.20
	-.10	-.005	.029	.008	-.018	-.0005	.000	-.10
	-.05	-.005	.031	.009	-.016	-.0006	-.001	-.05
	0.00	-.005	.023	.006	-.016	-.0005	-.001	0.00
	0.00	-.005	.023	.006	-.015	-.0005	-.001	0.00
	.05	-.005	.028	.009	-.019	-.0006	-.001	.05
	.10	-.005	.027	.009	-.016	-.0005	-.001	.10
	.20	-.005	.029	.011	-.010	-.0007	.001	.20
	.30	-.008	.049	.023	-.000	-.0007	.006	.30
	.40	-.017	.119	.060	.015	-.0010	.013	.40

10	-.40	-.015	.135	.069	.004	-.0009	.016	-.40
	-.30	-.004	.070	.029	-.009	-.0007	.008	-.30
	-.20	-.002	.051	.019	-.018	-.0006	.003	-.20
	-.10	-.003	.050	.017	-.021	-.0006	.001	-.10
	-.05	-.003	.052	.017	-.020	-.0006	.000	-.05
	0.00	-.002	.043	.014	-.018	-.0006	.000	0.00
	0.00	-.002	.043	.014	-.019	-.0005	.000	0.00
	.05	-.003	.050	.018	-.021	-.0007	.000	.05
	.10	-.003	.050	.017	-.018	-.0006	.001	.10
	.20	-.003	.053	.019	-.013	-.0007	.004	.20
	.30	-.005	.075	.029	-.004	-.0009	.008	.30
	.40	-.016	.143	.070	.008	-.0011	.015	.40

15	-.40	-.018	.176	.082	-.004	-.0010	.012	-.40
	-.30	-.004	.109	.042	-.016	-.0008	.007	-.30
	-.20	-.002	.087	.030	-.022	-.0006	.003	-.20
	-.10	-.005	.084	.028	-.024	-.0006	.001	-.10
	-.05	-.006	.087	.028	-.022	-.0006	.001	-.05
	0.00	-.003	.079	.025	-.022	-.0005	.000	0.00
	0.00	-.003	.078	.025	-.021	-.0005	.000	0.00
	.05	-.004	.084	.028	-.026	-.0006	.001	.05
	.10	-.004	.084	.027	-.022	-.0007	.001	.10
	.20	-.002	.090	.033	-.016	-.0009	.003	.20
	.30	-.007	.114	.046	-.008	-.0011	.008	.30
	.40	-.024	.189	.090	.009	-.0015	.016	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.031	.268	.104	-.009	-.0017	-.007	-.40
	-.30	-.006	.173	.065	-.030	-.0010	-.003	-.30
	-.20	-.001	.136	.049	-.038	-.0007	-.001	-.20
	-.10	-.003	.127	.042	-.035	-.0006	-.002	-.10
	-.05	-.004	.125	.041	-.029	-.0006	-.002	-.05
	0.00	-.003	.117	.039	-.025	-.0006	-.001	0.00
	0.00	-.002	.117	.039	-.026	-.0007	-.002	0.00
	.05	-.005	.127	.044	-.026	-.0007	-.001	.05
	.10	-.004	.126	.045	-.018	-.0008	-.001	.10
	.20	-.003	.134	.054	-.004	-.0013	.001	.20
	.30	-.010	.165	.075	.011	-.0015	.010	.30
	.40	-.033	.254	.117	.019	-.0020	.025	.40
25	-.40	-.037	.348	.117	.016	-.0019	-.019	-.40
	-.30	-.009	.253	.066	-.014	-.0012	-.024	-.30
	-.20	-.000	.200	.054	-.044	-.0008	-.021	-.20
	-.10	-.002	.181	.051	-.051	-.0006	-.013	-.10
	-.05	-.004	.176	.053	-.046	-.0007	-.006	-.05
	0.00	-.003	.163	.052	-.038	-.0008	-.002	0.00
	0.00	-.003	.165	.052	-.038	-.0008	-.003	0.00
	.05	-.007	.168	.058	-.025	-.0008	-.001	.05
	.10	-.006	.162	.059	-.004	-.0010	-.000	.10
	.20	-.003	.176	.069	.022	-.0014	.009	.20
	.30	-.010	.234	.078	.014	-.0015	.031	.30
	.40	-.041	.339	.126	.014	-.0019	.037	.40
30	-.40	-.052	.413	.189	-.013	-.0023	.009	-.40
	-.30	-.015	.349	.098	.006	-.0016	-.034	-.30
	-.20	-.004	.303	.052	-.017	-.0010	-.043	-.20
	-.10	-.005	.256	.056	-.059	-.0008	-.035	-.10
	-.05	-.004	.241	.053	-.051	-.0008	-.027	-.05
	0.00	-.004	.214	.062	-.035	-.0008	-.012	0.00
	0.00	-.004	.215	.060	-.037	-.0009	-.012	0.00
	.05	-.006	.212	.067	.002	-.0011	.002	.05
	.10	-.003	.232	.060	.029	-.0011	.021	.10
	.20	-.004	.286	.062	.016	-.0012	.041	.20
	.30	-.018	.343	.109	.005	-.0016	.039	.30
	.40	-.058	.436	.177	.004	-.0022	.042	.40
35	-.40	-.066	.487	.228	.021	-.0030	-.004	-.40
	-.30	-.019	.409	.166	-.023	-.0020	-.013	-.30
	-.20	-.007	.371	.101	-.081	-.0010	-.008	-.20
	-.10	-.002	.337	.071	-.068	-.0009	-.037	-.10
	-.05	-.003	.309	.054	-.060	-.0007	-.043	-.05
	0.00	-.002	.264	.067	-.018	-.0011	-.012	0.00
	0.00	-.003	.266	.066	-.012	-.0010	-.007	0.00
	.05	-.005	.294	.057	.027	-.0008	.033	.05
	.10	-.004	.339	.058	.022	-.0008	.050	.10
	.20	-.008	.355	.121	.047	-.0018	.023	.20
	.30	-.020	.408	.171	.034	-.0023	.023	.30
	.40	-.064	.492	.228	.011	-.0030	.030	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.061	.557	.196	.054	-.0030	-.004	-.40
	-.30	-.018	.510	.146	.006	-.0021	-.038	-.30
	-.20	-.012	.430	.157	-.035	-.0018	-.039	-.20
	-.10	-.010	.422	.097	-.101	-.0008	-.026	-.10
	-.05	-.012	.382	.078	-.080	-.0008	-.036	-.05
	0.00	-.007	.356	.062	.022	-.0008	.036	0.00
	0.00	-.007	.361	.058	.020	-.0007	.035	0.00
	.05	-.009	.406	.081	.058	-.0009	.042	.05
	.10	-.008	.410	.113	.069	-.0013	.035	.10
	.20	-.008	.440	.155	.031	-.0020	.036	.20
	.30	-.019	.503	.153	-.001	-.0022	.045	.30
	.40	-.063	.552	.202	-.008	-.0030	.023	.40
45	-.40	-.054	.551	.214	.046	-.0028	.031	-.40
	-.30	-.025	.524	.199	-.003	-.0023	-.007	-.30
	-.20	-.015	.539	.138	-.025	-.0016	-.055	-.20
	-.10	-.018	.485	.136	-.066	-.0013	-.048	-.10
	-.05	-.019	.426	.085	-.009	-.0008	.001	-.05
	0.00	-.013	.481	.107	.083	-.0010	.054	0.00
	0.00	-.014	.481	.108	.087	-.0011	.053	0.00
	.05	-.016	.508	.123	.072	-.0013	.057	.05
	.10	-.016	.520	.131	.052	-.0014	.061	.10
	.20	-.015	.515	.155	.021	-.0019	.047	.20
	.30	-.026	.519	.194	.000	-.0027	.014	.30
	.40	-.058	.554	.221	-.033	-.0034	-.020	.40
50	-.40	-.058	.549	.177	.098	-.0021	.066	-.40
	-.30	-.026	.535	.201	.058	-.0020	.033	-.30
	-.20	-.022	.562	.208	-.035	-.0019	-.019	-.20
	-.10	-.020	.496	.120	.005	-.0011	.008	-.10
	-.05	-.024	.492	.135	.089	-.0012	.071	-.05
	0.00	-.020	.521	.148	.073	-.0013	.065	0.00
	0.00	-.020	.529	.142	.077	-.0013	.065	0.00
	.05	-.024	.537	.159	.065	-.0016	.059	.05
	.10	-.023	.549	.168	.047	-.0017	.044	.10
	.20	-.022	.526	.196	-.003	-.0023	.010	.20
	.30	-.029	.528	.197	-.057	-.0026	-.030	.30
	.40	-.065	.529	.173	-.116	-.0029	-.081	.40
55	-.40	-.064	.561	.125	.115	-.0016	.094	-.40
	-.30	-.029	.518	.168	.121	-.0018	.084	-.30
	-.20	-.020	.607	.236	.016	-.0022	.010	-.20
	-.10	-.025	.550	.169	.033	-.0013	.059	-.10
	-.05	-.027	.550	.182	.019	-.0014	.047	-.05
	0.00	-.020	.548	.190	.007	-.0017	.032	0.00
	0.00	-.023	.547	.190	.017	-.0017	.034	0.00
	.05	-.025	.547	.202	-.008	-.0019	.020	.05
	.10	-.023	.543	.204	-.029	-.0020	.001	.10
	.20	-.023	.527	.196	-.085	-.0023	-.043	.20
	.30	-.037	.524	.168	-.132	-.0026	-.088	.30
	.40	-.079	.555	.131	-.116	-.0029	-.103	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.076	.614	.115	.114	-.0014	.101	-.40
	-.30	-.035	.561	.146	.081	-.0014	.077	-.30
	-.20	-.021	.595	.213	.027	-.0017	.047	-.20
	-.10	-.020	.573	.221	-.012	-.0017	.018	-.10
	-.05	-.021	.567	.220	-.023	-.0018	.007	-.05
	0.00	-.017	.564	.220	-.035	-.0018	-.007	0.00
	0.00	-.018	.557	.214	-.042	-.0018	-.012	0.00
	.05	-.022	.548	.214	-.068	-.0019	-.029	.05
	.10	-.021	.544	.205	-.088	-.0019	-.048	.10
	.20	-.022	.533	.174	-.107	-.0022	-.073	.20
	.30	-.036	.559	.135	-.105	-.0023	-.085	.30
	.40	-.078	.611	.083	-.090	-.0023	-.099	.40
65	-.40	-.068	.651	.078	.098	-.0009	.107	-.40
	-.30	-.036	.611	.154	.071	-.0014	.077	-.30
	-.20	-.024	.597	.187	.037	-.0016	.047	-.20
	-.10	-.025	.591	.195	-.012	-.0016	.010	-.10
	-.05	-.025	.580	.198	-.027	-.0018	-.004	-.05
	0.00	-.011	.570	.205	-.049	-.0018	-.021	0.00
	0.00	-.014	.566	.197	-.044	-.0018	-.021	0.00
	.05	-.030	.567	.197	-.056	-.0019	-.030	.05
	.10	-.029	.571	.188	.068	-.0020	-.044	.10
	.20	-.028	.581	.158	-.076	-.0020	-.061	.20
	.30	-.035	.616	.118	-.083	-.0020	-.080	.30
	.40	-.068	.670	.081	-.073	-.0021	-.099	.40
70	-.40	-.071	.658	-.019	.061	-.0005	.086	-.40
	-.30	-.036	.629	.095	.060	-.0011	.078	-.30
	-.20	-.014	.598	.167	.034	-.0014	.051	-.20
	-.10	-.006	.584	.170	-.003	-.0016	.020	-.10
	-.05	-.010	.581	.167	-.016	-.0015	.004	-.05
	0.00	-.006	.583	.173	-.029	-.0017	-.011	0.00
	0.00	-.009	.587	.167	-.031	-.0017	-.011	0.00
	.05	-.011	.582	.161	-.039	-.0016	-.021	.05
	.10	-.007	.582	.157	-.044	-.0017	-.032	.10
	.20	-.014	.589	.141	-.059	-.0020	-.055	.20
	.30	-.039	.630	.085	-.061	-.0017	-.075	.30
	.40	-.076	.689	-.026	-.025	-.0010	-.078	.40
75	-.40	-.065	.695	-.013	.034	-.0004	.086	-.40
	-.30	-.020	.630	-.009	.019	-.0003	.064	-.30
	-.20	-.008	.593	.107	.019	-.0011	.049	-.20
	-.10	-.012	.551	.118	-.004	-.0012	.018	-.10
	-.05	-.013	.550	.116	-.015	-.0013	.004	-.05
	0.00	-.009	.547	.121	-.018	-.0013	-.006	0.00
	0.00	-.010	.526	.118	-.019	-.0013	-.007	0.00
	.05	-.014	.539	.110	-.032	-.0014	-.018	.05
	.10	-.013	.558	.117	-.040	-.0015	-.031	.10
	.20	-.014	.624	.098	-.054	-.0015	-.057	.20
	.30	-.021	.644	.002	-.037	-.0009	-.063	.30
	.40	-.067	.714	-.010	-.025	-.0010	-.079	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.054	.697	-.024	.024	-.0004	.084	-.40
	-.30	-.015	.642	.003	.017	-.0005	.064	-.30
	-.20	-.003	.532	.039	.001	-.0007	.039	-.20
	-.10	-.004	.548	.068	-.009	-.0008	.020	-.10
	-.05	-.005	.546	.072	-.016	-.0008	.006	-.05
	0.00	-.000	.558	.068	-.019	-.0009	-.005	0.00
	0.00	-.004	.537	.085	-.018	-.0011	-.005	0.00
	.05	-.006	.531	.070	-.026	-.0010	-.016	.05
	.10	-.006	.534	.063	-.030	-.0011	-.028	.10
	.20	-.004	.549	.031	-.028	-.0009	-.044	.20
	.30	-.014	.648	-.007	-.029	-.0007	-.066	.30
	.40	-.059	.705	-.029	-.030	-.0007	-.078	.40
85	-.40	-.038	.714	-.008	.012	.0002	.080	-.40
	-.30	-.006	.647	.007	.000	-.0000	.062	-.30
	-.20	.007	.614	.007	-.009	-.0001	.045	-.20
	-.10	-.002	.522	.025	-.011	-.0004	.018	-.10
	-.05	-.004	.512	.028	-.013	-.0004	.007	-.05
	0.00	-.001	.516	.028	-.015	-.0004	-.003	0.00
	0.00	.001	.504	.034	-.016	-.0005	-.003	0.00
	.05	-.003	.511	.026	-.022	-.0005	-.013	.05
	.10	.000	.520	.016	-.022	-.0004	-.023	.10
	.20	.004	.597	.004	-.020	-.0003	-.048	.20
	.30	-.005	.658	-.012	-.017	-.0001	-.066	.30
	.40	.042	.727	-.026	-.023	-.0001	-.082	.40
90	-.40	-.027	.695	.011	.003	.0001	.079	-.40
	-.30	-.000	.631	-.005	-.012	-.0000	.061	-.30
	-.20	.011	.555	-.014	-.023	-.0002	.041	-.20
	-.10	.008	.494	-.017	-.022	-.0003	.018	-.10
	-.05	.009	.498	-.020	-.022	-.0003	.007	-.05
	0.00	.011	.498	-.022	-.019	-.0002	-.003	0.00
	0.00	.011	.493	-.018	-.018	-.0002	-.003	0.00
	.05	.011	.496	-.020	-.018	-.0002	-.012	.05
	.10	.010	.506	-.021	-.015	-.0002	-.023	.10
	.20	.009	.564	-.014	-.011	-.0002	-.045	.20
	.30	-.000	.645	-.019	-.012	-.0001	-.064	.30
	.40	-.029	.712	-.008	-.016	-.0002	-.082	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.015	.082	.006	-.002	-.0006	.021	-.40
	-.30	-.015	.025	-.014	-.012	-.0005	.010	-.30
	-.20	-.016	.009	-.012	-.018	-.0006	.002	-.20
	-.10	-.016	.013	-.003	-.020	-.0006	-.001	-.10
	-.05	-.016	.023	.000	-.019	-.0006	-.002	-.05
	0.00	-.014	.010	-.002	-.020	-.0005	-.002	0.00
	0.00	-.014	.018	-.002	-.021	-.0005	-.002	0.00
	.05	-.015	.013	.001	-.024	-.0006	-.003	.05
	.10	-.014	.013	-.002	-.022	-.0006	-.002	.10
	.20	-.014	.010	-.009	-.018	-.0004	.002	.20
	.30	-.014	.025	-.010	-.011	-.0005	.009	.30
	.40	-.014	.084	.012	.001	-.0006	.021	.40

5	-.40	-.020	.094	.047	.003	-.0012	.026	-.40
	-.30	-.014	.041	.013	-.011	-.0009	.013	-.30
	-.20	-.012	.014	.006	-.019	-.0008	.005	-.20
	-.10	-.013	.016	.008	-.023	-.0007	-.000	-.10
	-.05	-.014	.017	.010	-.021	-.0006	-.002	-.05
	0.00	-.012	.009	.007	-.022	-.0007	-.002	0.00
	0.00	-.013	.009	.006	-.021	-.0006	-.002	0.00
	.05	-.014	.016	.010	-.021	-.0006	-.002	.05
	.10	-.014	.014	.009	-.017	-.0006	-.001	.10
	.20	-.013	.011	.008	-.011	-.0008	.003	.20
	.30	-.013	.028	.014	-.002	-.0009	.009	.30
	.40	-.020	.091	.050	.010	-.0014	.019	.40

10	-.40	-.024	.116	.076	-.004	-.0012	.023	-.40
	-.30	-.013	.048	.030	-.018	-.0009	.013	-.30
	-.20	-.009	.028	.018	-.025	-.0006	.006	-.20
	-.10	-.010	.029	.016	-.027	-.0006	.002	-.10
	-.05	-.010	.032	.018	-.024	-.0006	.000	-.05
	0.00	-.009	.024	.014	-.025	-.0005	-.000	0.00
	0.00	-.009	.025	.014	-.026	-.0005	-.000	0.00
	.05	-.010	.030	.017	-.028	-.0005	-.000	.05
	.10	-.010	.029	.016	-.025	-.0007	.001	.10
	.20	-.010	.034	.019	-.021	-.0009	.005	.20
	.30	-.013	.058	.030	-.012	-.0013	.012	.30
	.40	-.027	.131	.077	.004	-.0018	.021	.40

15	-.40	-.032	.171	.093	.001	-.0018	.021	-.40
	-.30	-.013	.099	.049	-.017	-.0011	.011	-.30
	-.20	-.009	.072	.034	-.025	-.0008	.004	-.20
	-.10	-.011	.069	.033	-.030	-.0008	-.000	-.10
	-.05	-.012	.071	.034	-.028	-.0007	-.001	-.05
	0.00	-.011	.065	.031	-.027	-.0007	-.002	0.00
	0.00	-.010	.064	.030	-.026	-.0007	-.002	0.00
	.05	-.012	.071	.034	-.031	-.0008	-.002	.05
	.10	-.011	.071	.032	-.027	-.0008	-.001	.10
	.20	-.011	.072	.036	-.018	-.0010	.003	.20
	.30	-.016	.096	.048	-.006	-.0014	.012	.30
	.40	-.035	.170	.092	.019	-.0020	.025	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.035	.246	.123	.013	-.0024	.001	-.40
	-.30	-.011	.154	.077	-.022	-.0014	-.001	-.30
	-.20	-.007	.117	.056	-.038	-.0009	-.000	-.20
	-.10	-.010	.111	.051	-.039	-.0007	-.002	-.10
	-.05	-.012	.113	.051	-.034	-.0008	-.003	-.05
	0.00	-.010	.103	.045	-.030	-.0008	-.004	0.00
	0.00	-.010	.102	.046	-.029	-.0008	-.004	0.00
	.05	-.012	.109	.050	-.028	-.0009	-.004	.05
	.10	-.011	.108	.051	-.018	-.0009	-.003	.10
	.20	-.009	.111	.061	-.002	-.0015	.002	.20
	.30	-.014	.145	.085	.018	-.0022	.015	.30
	.40	-.038	.246	.131	.027	-.0026	.039	.40
25	-.40	-.052	.329	.172	.011	-.0030	.001	-.40
	-.30	-.019	.240	.093	-.011	-.0018	-.019	-.30
	-.20	-.008	.187	.068	-.042	-.0011	-.023	-.20
	-.10	-.007	.165	.062	-.058	-.0007	-.014	-.10
	-.05	-.010	.159	.062	-.053	-.0007	-.008	-.05
	0.00	-.009	.149	.062	-.042	-.0009	-.004	0.00
	0.00	-.009	.148	.061	-.041	-.0009	-.004	0.00
	.05	-.013	.148	.066	-.021	-.0009	-.005	.05
	.10	-.011	.150	.070	.005	-.0012	-.002	.10
	.20	-.008	.177	.079	.023	-.0016	.019	.20
	.30	-.020	.246	.092	.012	-.0020	.042	.30
	.40	-.053	.335	.189	.049	-.0034	.036	.40
30	-.40	-.054	.391	.214	.016	-.0033	.012	-.40
	-.30	-.022	.312	.155	-.047	-.0020	.000	-.30
	-.20	-.012	.272	.106	-.055	-.0013	-.025	-.20
	-.10	-.017	.249	.072	-.065	-.0007	-.040	-.10
	-.05	-.016	.236	.067	-.063	-.0006	-.031	-.05
	0.00	-.014	.204	.075	-.031	-.0009	-.010	0.00
	0.00	-.014	.201	.077	-.026	-.0010	-.011	0.00
	.05	-.015	.216	.075	.012	-.0009	.013	.05
	.10	-.014	.239	.067	.029	-.0009	.033	.10
	.20	-.011	.277	.097	.022	-.0015	.034	.20
	.30	-.022	.330	.145	.010	-.0023	.040	.30
	.40	-.059	.403	.232	.028	-.0036	.034	.40
35	-.40	-.068	.501	.208	.072	-.0036	.002	-.40
	-.30	-.024	.399	.183	-.008	-.0024	-.018	-.30
	-.20	-.014	.355	.155	-.059	-.0017	-.031	-.20
	-.10	-.012	.337	.099	-.117	-.0005	-.020	-.10
	-.05	-.013	.306	.078	-.082	-.0006	-.037	-.05
	0.00	-.011	.275	.073	.011	-.0005	.020	0.00
	0.00	-.010	.280	.068	.013	-.0006	.019	0.00
	.05	-.010	.327	.076	.036	-.0006	.041	.05
	.10	-.010	.339	.106	.059	-.0011	.027	.10
	.20	-.013	.358	.157	.044	-.0020	.032	.20
	.30	-.026	.394	.199	.019	-.0028	.038	.30
	.40	-.072	.498	.227	.005	-.0038	.038	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.074	.502	.231	.074	-.0035	.028	-.40
	-.30	-.025	.492	.165	.038	-.0023	-.021	-.30
	-.20	-.012	.454	.162	-.045	-.0015	-.044	-.20
	-.10	-.014	.416	.149	-.084	-.0011	-.049	-.10
	-.05	-.015	.368	.095	-.064	-.0005	-.016	-.05
	0.00	-.008	.404	.095	.069	-.0006	.047	0.00
	0.00	-.009	.396	.093	.067	-.0006	.046	0.00
	.05	-.013	.405	.141	.055	-.0010	.054	.05
	.10	-.013	.422	.158	.044	-.0014	.053	.10
	.20	-.016	.457	.164	.003	-.0018	.051	.20
	.30	-.030	.474	.183	-.011	-.0027	.033	.30
	.40	-.081	.521	.240	-.003	-.0041	.013	.40
45	-.40	-.081	.513	.244	.087	-.0033	.044	-.40
	-.30	-.033	.481	.219	.011	-.0024	.004	-.30
	-.20	-.017	.513	.187	-.038	-.0016	-.035	-.20
	-.10	-.016	.501	.160	-.081	-.0010	-.062	-.10
	-.05	-.014	.461	.118	.075	-.0007	.058	-.05
	0.00	-.010	.485	.138	.071	-.0009	.080	0.00
	0.00	-.011	.486	.140	.071	-.0008	.082	0.00
	.05	-.015	.483	.151	.047	-.0011	.079	.05
	.10	-.015	.488	.161	.031	-.0013	.063	.10
	.20	-.017	.475	.186	.015	-.0022	.034	.20
	.30	-.032	.485	.220	-.004	-.0032	.011	.30
	.40	-.083	.525	.257	-.009	-.0043	-.003	.40
50	-.40	-.082	.537	.210	.115	-.0028	.076	-.40
	-.30	-.034	.487	.217	.048	-.0023	.028	-.30
	-.20	-.021	.493	.220	-.008	-.0017	-.007	-.20
	-.10	-.017	.505	.167	.001	-.0010	.012	-.10
	-.05	-.019	.535	.171	.088	-.0010	.077	-.05
	0.00	-.015	.508	.173	.072	-.0012	.065	0.00
	0.00	-.015	.509	.171	.070	-.0013	.065	0.00
	.05	-.022	.468	.184	.047	-.0015	.056	.05
	.10	-.022	.461	.197	.028	-.0018	.042	.10
	.20	-.025	.476	.217	-.016	-.0024	.009	.20
	.30	-.038	.485	.224	-.030	-.0031	-.010	.30
	.40	-.089	.549	.221	-.047	-.0039	-.041	.40
55	-.40	-.078	.529	.147	.124	-.0020	.098	-.40
	-.30	-.035	.490	.199	.037	-.0020	.029	-.30
	-.20	-.021	.489	.207	.042	-.0016	.031	-.20
	-.10	-.021	.530	.193	.043	-.0012	.056	-.10
	-.05	-.024	.496	.192	.028	-.0013	.044	-.05
	0.00	-.017	.465	.191	.033	-.0014	.050	0.00
	0.00	-.018	.472	.192	.045	-.0014	.056	0.00
	.05	-.022	.467	.199	.031	-.0016	.049	.05
	.10	-.022	.472	.209	.019	-.0019	.037	.10
	.20	-.025	.487	.215	-.039	-.0024	-.009	.20
	.30	-.040	.523	.209	-.028	-.0028	-.017	.30
	.40	-.092	.548	.165	-.050	-.0034	-.064	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.071	.580	.117	.127	-.0017	.116	-.40
	-.30	-.037	.542	.160	.090	-.0014	.087	-.30
	-.20	-.025	.522	.186	.056	-.0013	.059	-.20
	-.10	-.031	.534	.216	-.028	-.0013	.001	-.10
	-.05	-.034	.530	.216	-.055	-.0014	-.019	-.05
	0.00	-.026	.523	.214	-.068	-.0013	-.029	0.00
	0.00	-.026	.526	.208	-.068	-.0013	-.031	0.00
	.05	-.037	.511	.208	-.071	-.0015	-.031	.05
	.10	-.034	.514	.202	-.065	-.0016	-.030	.10
	.20	-.028	.522	.207	-.033	-.0021	-.013	.20
	.30	-.037	.525	.163	-.083	-.0026	-.075	.30
	.40	-.071	.583	.112	-.043	-.0030	-.081	.40
65	-.40	-.071	.626	.016	.083	-.0006	.100	-.40
	-.30	-.038	.591	.120	.071	-.0010	.084	-.30
	-.20	-.021	.539	.183	.040	-.0012	.056	-.20
	-.10	.019	.544	.214	-.014	-.0014	.008	-.10
	-.05	-.021	.534	.208	-.038	-.0013	-.012	-.05
	0.00	-.008	.526	.198	-.056	-.0014	-.027	0.00
	0.00	-.012	.530	.205	-.054	-.0015	-.028	0.00
	.05	-.020	.533	.195	-.044	-.0014	-.016	.05
	.10	-.019	.534	.199	-.020	-.0016	.002	.10
	.20	-.023	.556	.194	-.062	-.0020	-.045	.20
	.30	-.044	.577	.133	-.068	-.0021	-.072	.30
	.40	-.081	.628	.028	-.019	-.0020	-.075	.40
70	-.40	-.094	.671	.002	.089	-.0003	.101	-.40
	-.30	-.039	.571	.056	.047	-.0005	.072	-.30
	-.20	-.011	.592	.165	.032	-.0010	.055	-.20
	-.10	-.010	.541	.179	.003	-.0011	.028	-.10
	-.05	-.012	.534	.183	-.011	-.0012	.013	-.05
	0.00	-.007	.535	.182	-.025	-.0013	-.005	0.00
	0.00	-.004	.556	.188	-.030	-.0014	-.006	0.00
	.05	-.013	.553	.185	-.033	-.0014	-.008	.05
	.10	-.009	.557	.186	-.041	-.0016	-.021	.10
	.20	-.017	.564	.151	-.060	-.0017	-.053	.20
	.30	-.039	.569	.048	-.038	-.0013	-.061	.30
	.40	-.096	.682	.010	-.009	-.0014	-.075	.40
75	-.40	-.071	.710	.013	.068	-.0001	.100	-.40
	-.30	-.023	.621	.024	.032	-.0000	.069	-.30
	-.20	-.012	.616	.143	.024	-.0008	.056	-.20
	-.10	-.012	.530	.160	-.006	-.0010	.027	-.10
	-.05	-.012	.546	.141	-.015	-.0009	.014	-.05
	0.00	-.008	.551	.145	-.026	-.0011	-.001	0.00
	0.00	-.008	.562	.152	-.024	-.0011	.000	0.00
	.05	-.011	.546	.144	-.035	-.0011	-.013	.05
	.10	-.011	.554	.139	-.041	-.0020	-.026	.10
	.20	-.016	.537	.111	-.046	-.0014	-.049	.20
	.30	-.029	.637	.028	-.037	-.0009	-.066	.30
	.40	-.077	.719	.012	-.015	-.0011	-.081	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_{η}	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.069	.724	-.015	.049	-.0000	.095	-.40
	-.30	-.020	.636	.018	.019	-.0000	.069	-.30
	-.20	-.003	.625	.072	.002	-.0003	.051	-.20
	-.10	-.003	.621	.129	-.012	-.0006	.027	-.10
	-.05	-.003	.551	.093	-.022	-.0004	.011	-.05
	0.00	-.002	.536	.098	-.023	-.0007	-.002	0.00
	0.00	-.003	.540	.094	-.026	-.0006	-.002	0.00
	.05	-.007	.542	.093	-.033	-.0006	-.014	.05
	.10	-.006	.536	.081	-.035	-.0006	-.027	.10
	.20	-.005	.614	.044	-.038	-.0006	-.052	.20
	.30	-.021	.653	.011	-.028	-.0008	-.069	.30
	.40	-.074	.704	-.008	-.012	-.0010	-.083	.40
85	-.40	-.035	.769	.016	.033	.0002	.096	-.40
	-.30	-.003	.697	.042	.008	-.0003	.072	-.30
	-.20	.006	.645	.034	-.008	-.0003	.051	-.20
	-.10	-.002	.582	.049	-.016	-.0006	.024	-.10
	-.05	-.007	.554	.057	-.019	-.0007	.010	-.05
	0.00	-.002	.552	.054	-.021	-.0007	-.002	0.00
	0.00	-.004	.550	.060	-.022	-.0007	-.002	0.00
	.05	-.008	.543	.056	-.027	-.0008	-.013	.05
	.10	-.006	.549	.047	-.029	-.0007	-.026	.10
	.20	.001	.624	.042	-.023	-.0007	-.053	.20
	.30	-.004	.682	.027	-.016	-.0007	-.071	.30
	.40	-.044	.771	-.000	-.018	-.0005	-.090	.40
90	-.40	-.020	.788	.040	.016	.0002	.097	-.40
	-.30	.001	.703	.022	-.009	-.0000	.073	-.30
	-.20	.011	.644	.014	-.022	-.0002	.050	-.20
	-.10	.004	.559	.014	-.023	-.0004	.022	-.10
	-.05	.004	.543	.009	-.025	-.0004	.009	-.05
	0.00	.006	.543	.017	-.024	-.0005	-.003	0.00
	0.00	.005	.520	.016	-.025	-.0004	-.002	0.00
	.05	.006	.542	.011	-.025	-.0005	-.013	.05
	.10	.005	.552	.010	-.024	-.0005	-.026	.10
	.20	.007	.622	.006	-.016	-.0004	-.051	.20
	.30	-.003	.701	.014	-.011	-.0004	-.072	.30
	.40	-.031	.798	.037	-.017	-.0005	-.092	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.013	.072	.011	-.011	-.0005	-.005	-.40
	-.30	.012	.024	.000	-.001	-.0005	-.003	-.30
	-.20	.012	.009	-.003	.006	-.0005	-.002	-.20
	-.10	.012	.009	-.002	.009	-.0005	-.001	-.10
	-.05	.011	.010	-.002	.010	-.0005	-.000	-.05
	0.00	.012	.004	-.004	.007	-.0005	-.001	0.00
	0.00	.012	.005	-.004	.007	-.0005	-.001	0.00
	.05	.012	.011	-.002	.008	-.0005	-.001	.05
	.10	.012	.009	-.002	.007	-.0005	-.001	.10
	.20	.012	.009	-.002	.004	-.0005	-.002	.20
	.30	.012	.023	.001	-.002	-.0005	-.003	.30
	.40	.012	.071	.012	-.013	-.0005	-.005	.40

5	-.40	.010	.072	.015	-.017	-.0005	-.002	-.40
	-.30	.014	.028	.005	-.006	-.0005	-.000	-.30
	-.20	.015	.016	.002	.001	-.0005	.000	-.20
	-.10	.015	.016	.002	.006	-.0005	.001	-.10
	-.05	.015	.018	.003	.008	-.0004	.001	-.05
	0.00	.015	.013	.001	.006	-.0004	.000	0.00
	0.00	.016	.013	.001	.006	-.0004	.000	0.00
	.05	.015	.016	.002	.007	-.0004	-.000	.05
	.10	.016	.014	.002	.007	-.0005	-.001	.10
	.20	.016	.015	.002	.006	-.0005	-.002	.20
	.30	.015	.030	.005	.001	-.0005	-.005	.30
	.40	.010	.077	.015	-.006	-.0006	-.008	.40

10	-.40	.008	.087	.012	-.019	-.0005	.000	-.40
	-.30	.014	.040	.004	-.010	-.0003	.002	-.30
	-.20	.017	.026	.002	-.002	-.0003	.002	-.20
	-.10	.016	.025	.004	.004	-.0003	.002	-.10
	-.05	.016	.026	.005	.006	-.0003	.002	-.05
	0.00	.017	.021	.004	.005	-.0003	.001	0.00
	0.00	.017	.022	.003	.005	-.0003	.001	0.00
	.05	.016	.028	.005	.007	-.0003	.001	.05
	.10	.017	.026	.005	.008	-.0004	.000	.10
	.20	.018	.026	.004	.008	-.0003	-.002	.20
	.30	.016	.039	.005	.005	-.0004	-.005	.30
	.40	.011	.084	.013	-.001	-.0004	-.008	.40

15	-.40	-.002	.141	.041	.009	-.0009	-.006	-.40
	-.30	.019	.067	.014	.016	-.0007	-.005	-.30
	-.20	.029	.031	.003	.019	-.0003	-.004	-.20
	-.10	.032	.017	-.002	.017	-.0003	-.001	-.10
	-.05	.032	.014	-.003	.016	-.0002	-.001	-.05
	0.00	.033	.008	-.004	.010	-.0001	-.000	0.00
	0.00	.033	.008	-.004	.011	-.0001	-.001	0.00
	.05	.033	.012	-.003	.009	-.0001	-.000	.05
	.10	.033	.015	-.002	.007	-.0002	-.000	.10
	.20	.029	.032	.004	-.000	-.0002	.000	.20
	.30	.020	.070	.014	-.010	-.0005	-.001	.30
	.40	-.002	.149	.040	-.023	-.0009	-.004	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	.004	.152	-.003	.011	-.0009	.006	-.40
	-.30	.017	.109	-.012	.024	-.0006	-.000	-.30
	-.20	.020	.090	-.008	.026	-.0004	-.002	-.20
	-.10	.019	.086	-.003	.021	-.0002	-.001	-.10
	-.05	.018	.086	-.002	.018	-.0001	-.000	-.05
	0.00	.020	.079	-.001	.009	-.0001	.000	0.00
	0.00	.020	.079	-.002	.010	-.0001	.000	0.00
	.05	.019	.083	-.001	.008	-.0002	-.000	.05
	.10	.020	.083	-.003	.005	-.0002	-.001	.10
	.20	.021	.090	-.007	-.005	-.0004	-.002	.20
	.30	.018	.110	-.011	-.023	-.0006	-.005	.30
	.40	.003	.154	-.002	-.035	-.0009	-.015	.40
25	-.40	.001	.181	-.004	.017	-.0009	.019	-.40
	-.30	.017	.139	-.012	.025	-.0007	.015	-.30
	-.20	.020	.123	-.011	.033	-.0002	.006	-.20
	-.10	.019	.117	-.005	.033	-.0001	.001	-.10
	-.05	.017	.115	-.002	.026	-.0001	-.000	-.05
	0.00	.019	.108	-.002	.012	-.0000	.000	0.00
	0.00	.019	.112	-.002	.011	-.0001	.001	0.00
	.05	.016	.115	-.002	.005	-.0001	.001	.05
	.10	.018	.117	-.005	-.003	-.0001	-.001	.10
	.20	.020	.122	-.009	-.013	-.0004	-.000	.20
	.30	.016	.141	-.011	-.021	-.0007	-.018	.30
	.40	.001	.185	-.005	-.035	-.0011	-.028	.40
30	-.40	-.004	.229	-.009	.039	-.0011	.016	-.40
	-.30	.014	.181	-.015	.045	-.0007	.017	-.30
	-.20	.018	.163	-.012	.045	-.0003	.015	-.20
	-.10	.016	.151	-.006	.044	-.0002	.007	-.10
	-.05	.014	.147	-.002	.040	-.0001	.003	-.05
	0.00	.019	.141	-.001	.025	-.0000	.001	0.00
	0.00	.018	.144	-.001	.025	-.0001	.001	0.00
	.05	.016	.150	-.005	.013	-.0002	-.000	.05
	.10	.018	.151	-.008	.002	-.0002	-.004	.10
	.20	.019	.164	-.012	-.010	-.0006	-.017	.20
	.30	.015	.184	-.015	-.027	-.0010	-.028	.30
	.40	-.006	.234	-.011	-.061	-.0014	-.035	.40
35	-.40	-.006	.264	-.028	.071	-.0011	.017	-.40
	-.30	.014	.225	-.027	.074	-.0007	.017	-.30
	-.20	.018	.207	-.024	.069	-.0003	.016	-.20
	-.10	.012	.187	-.007	.056	-.0002	.015	-.10
	-.05	.011	.184	-.004	.050	-.0002	.012	-.05
	0.00	.015	.182	-.009	.040	-.0001	.007	0.00
	0.00	.016	.183	-.010	.039	-.0001	.007	0.00
	.05	.014	.194	-.016	.027	-.0003	.001	.05
	.10	.016	.198	-.021	.007	-.0003	-.005	.10
	.20	.019	.208	-.024	-.019	-.0004	-.023	.20
	.30	.013	.228	-.030	-.056	-.0008	-.027	.30
	.40	-.009	.272	-.038	-.092	-.0011	-.036	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.016	.323	-.066	.106	-.0010	.024	-.40
	-.30	.011	.273	-.051	.105	-.0007	.016	-.30
	-.20	.018	.251	-.039	.099	-.0003	.014	-.20
	-.10	.015	.226	-.022	.081	-.0001	.014	-.10
	-.05	.012	.216	-.009	.063	-.0001	.015	-.05
	0.00	.017	.221	-.019	.041	-.0001	.010	0.00
	0.00	.018	.223	-.021	.044	-.0001	.012	0.00
	.05	.016	.235	-.030	.025	-.0002	.001	.05
	.10	.017	.240	-.033	-.004	-.0002	-.012	.10
	.20	.016	.254	-.041	-.055	-.0004	-.019	.20
	.30	.008	.285	-.065	-.087	-.0007	-.027	.30
	.40	-.015	.338	-.086	-.126	-.0011	-.040	.40
45	-.40	-.017	.354	-.078	.106	-.0008	.055	-.40
	-.30	.007	.315	-.069	.115	-.0005	.036	-.30
	-.20	.014	.294	-.053	.123	-.0002	.018	-.20
	-.10	.014	.268	-.030	.110	-.0001	.010	-.10
	-.05	.009	.250	-.012	.091	-.0001	.009	-.05
	0.00	.014	.258	-.024	.055	-.0001	.010	0.00
	0.00	.014	.254	-.022	.053	-.0002	.008	0.00
	.05	.014	.269	-.034	.022	-.0002	.000	.05
	.10	.014	.280	-.043	-.025	-.0002	-.010	.10
	.20	.013	.300	-.057	-.086	-.0004	-.019	.20
	.30	.005	.318	-.065	-.115	-.0009	-.038	.30
	.40	-.021	.357	-.075	-.135	-.0014	-.066	.40
50	-.40	-.022	.366	-.068	.112	-.0008	.067	-.40
	-.30	.002	.340	-.061	.116	-.0003	.055	-.30
	-.20	.009	.314	-.043	.114	-.0002	.034	-.20
	-.10	.009	.290	-.027	.109	-.0001	.018	-.10
	-.05	.008	.281	-.015	.097	-.0001	.012	-.05
	0.00	.010	.284	-.021	.071	-.0000	.007	0.00
	0.00	.011	.285	-.025	.075	-.0001	.007	0.00
	.05	.010	.301	-.035	.022	-.0002	.000	.05
	.10	.010	.306	-.040	-.032	-.0004	-.011	.10
	.20	.009	.317	-.044	-.082	-.0005	-.036	.20
	.30	.003	.346	-.062	-.108	-.0007	-.062	.30
	.40	-.020	.365	-.074	-.140	-.0012	-.083	.40
55	-.40	-.027	.397	-.073	.084	-.0005	.064	-.40
	-.30	-.003	.369	-.055	.100	-.0002	.054	-.30
	-.20	.006	.351	-.038	.095	-.0000	.040	-.20
	-.10	.007	.330	-.027	.099	-.0000	.032	-.10
	-.05	.005	.314	-.013	.095	-.0000	.025	-.05
	0.00	.008	.325	-.025	.082	-.0001	.017	0.00
	0.00	.007	.328	-.022	.088	-.0002	.015	0.00
	.05	.003	.338	-.026	.039	-.0003	.002	.05
	.10	.004	.348	-.031	-.039	-.0002	-.022	.10
	.20	.005	.353	-.038	-.078	-.0005	-.048	.20
	.30	-.002	.361	-.056	-.096	-.0007	-.065	.30
	.40	-.023	.390	-.076	-.103	-.0010	-.078	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.026	.427	-.078	.076	-.0004	.067	-.40
	-.30	-.006	.398	-.056	.087	-.0001	.055	-.30
	-.20	.002	.382	-.038	.088	-.0000	.043	-.20
	-.10	.002	.364	-.023	.083	.0001	.031	-.10
	-.05	-.000	.352	-.016	.081	-.0001	.025	-.05
	0.00	.004	.353	-.016	.066	-.0002	.018	0.00
	0.00	.005	.355	-.014	.066	-.0002	.019	0.00
	.05	.001	.364	-.023	.059	-.0003	.010	.05
	.10	.002	.370	-.028	-.042	-.0002	-.032	.10
	.20	.002	.382	-.038	-.058	-.0005	-.047	.20
	.30	-.006	.390	-.058	-.074	-.0008	-.063	.30
	.40	-.029	.417	-.080	-.092	-.0009	-.081	.40
65	-.40	-.028	.441	-.086	.066	-.0005	.068	-.40
	-.30	-.007	.417	-.055	.079	-.0002	.055	-.30
	-.20	-.000	.392	-.033	.078	-.0001	.042	-.20
	-.10	-.001	.384	-.017	.070	.0001	.028	-.10
	-.05	-.001	.374	-.011	.066	.0000	.021	-.05
	0.00	.002	.368	-.010	.055	-.0002	.014	0.00
	0.00	.003	.373	-.011	.058	-.0003	.015	0.00
	.05	-.001	.381	-.015	-.006	-.0003	-.014	.05
	.10	.001	.384	-.020	-.027	-.0003	-.029	.10
	.20	.000	.400	-.035	-.045	-.0005	-.044	.20
	.30	-.007	.419	-.059	-.068	-.0007	-.063	.30
	.40	-.027	.440	-.088	-.087	-.0010	-.081	.40
70	-.40	-.032	.459	-.087	.040	-.0002	.067	-.40
	-.30	-.012	.442	-.057	.065	-.0001	.055	-.30
	-.20	-.003	.416	-.035	.063	-.0001	.038	-.20
	-.10	-.001	.395	-.019	.059	-.0001	.023	-.10
	-.05	-.002	.388	-.011	.048	-.0001	.013	-.05
	0.00	.004	.386	-.010	.028	-.0001	.003	0.00
	0.00	.003	.383	-.011	.029	-.0002	.003	0.00
	.05	-.003	.392	-.015	.003	-.0002	-.012	.05
	.10	-.002	.397	-.017	-.013	-.0003	-.024	.10
	.20	-.004	.410	-.033	-.031	-.0004	-.043	.20
	.30	-.012	.432	-.061	-.049	-.0007	-.060	.30
	.40	-.032	.451	-.094	-.061	-.0009	-.076	.40
75	-.40	-.027	.456	-.103	.021	-.0002	.066	-.40
	-.30	-.012	.439	-.065	.046	-.0001	.051	-.30
	-.20	-.006	.421	-.034	.049	-.0001	.034	-.20
	-.10	-.004	.408	-.022	.042	.0000	.019	-.10
	-.05	-.003	.404	-.018	.035	-.0000	.009	-.05
	0.00	-.000	.398	-.019	.018	-.0000	-.000	0.00
	0.00	.001	.404	-.020	.022	-.0001	-.000	0.00
	.05	-.003	.405	-.019	.009	-.0002	-.009	.05
	.10	-.004	.408	-.023	-.004	-.0003	-.020	.10
	.20	-.005	.420	-.036	-.021	-.0003	-.038	.20
	.30	-.011	.438	-.064	-.040	-.0005	-.059	.30
	.40	-.026	.458	-.110	-.043	-.0008	-.074	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.010	.496	-.140	-.023	.0001	.064	-.40
	-.30	-.011	.441	-.073	.030	.0002	.050	-.30
	-.20	-.002	.419	-.042	.034	.0000	.033	-.20
	-.10	.003	.412	-.037	.029	.0000	.016	-.10
	-.05	.004	.411	-.037	.026	.0000	.007	-.05
	0.00	.007	.413	-.040	.019	.0000	-.000	0.00
	0.00	.008	.415	-.044	.020	-.0000	-.000	0.00
	.05	.005	.409	-.038	.014	-.0002	-.009	.05
	.10	.004	.412	-.037	.008	-.0002	-.018	.10
	.20	-.002	.419	-.046	-.009	-.0002	-.037	.20
	.30	-.008	.440	-.071	-.019	-.0004	-.055	.30
	.40	-.006	.505	-.146	-.003	-.0005	-.072	.40
85	-.40	.007	.528	-.137	-.022	.0002	.064	-.40
	-.30	.003	.448	-.093	.006	.0002	.046	-.30
	-.20	.004	.413	-.066	.019	.0001	.034	-.20
	-.10	.007	.401	-.059	.021	.0001	.015	-.10
	-.05	.008	.396	-.060	.021	.0000	.007	-.05
	0.00	.010	.390	-.057	.021	.0001	-.001	0.00
	0.00	.010	.393	-.060	.017	.0001	-.002	0.00
	.05	.009	.393	-.059	.021	-.0001	-.008	.05
	.10	.008	.397	-.059	.018	-.0001	-.018	.10
	.20	.009	.408	-.070	.007	-.0001	-.038	.20
	.30	.006	.464	-.104	.002	-.0001	-.052	.30
	.40	.008	.506	-.135	.007	-.0001	-.074	.40
90	-.40	.028	.505	-.126	-.034	.0004	.060	-.40
	-.30	.018	.450	-.097	-.008	.0002	.049	-.30
	-.20	.025	.394	-.108	-.006	.0002	.034	-.20
	-.10	.026	.380	-.114	.008	.0001	.015	-.10
	-.05	.027	.378	-.117	.014	.0001	.006	-.05
	0.00	.030	.376	-.113	.017	.0001	-.002	0.00
	0.00	.033	.376	-.118	.017	.0000	-.003	0.00
	.05	.026	.378	-.117	.023	-.0000	-.010	.05
	.10	.027	.378	-.116	.027	-.0001	-.019	.10
	.20	.027	.392	-.114	.031	-.0002	-.038	.20
	.30	.022	.434	-.103	.022	-.0002	-.056	.30
	.40	.030	.486	-.126	.033	-.0001	.066	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.004	.057	.012	.019	.0004	.008	-.40
	-.30	.003	.015	-.001	.006	.0003	.004	-.30
	-.20	.003	.003	-.004	-.002	.0003	.002	-.20
	-.10	.003	.004	-.002	-.007	.0003	.000	-.10
	-.05	.003	.007	-.002	-.009	.0003	-.000	-.05
	0.00	.002	-.001	-.003	-.010	.0003	-.000	0.00
	0.00	.002	.000	-.003	-.009	.0003	-.000	0.00
	.05	.003	.005	-.001	-.009	.0003	-.000	.05
	.10	.003	.002	-.002	-.009	.0004	-.000	.10
	.20	.003	.001	-.002	-.005	.0003	.001	.20
	.30	.003	.013	.001	.001	.0003	.004	.30
	.40	.003	.059	.014	.011	.0002	.007	.40

5	-.40	.000	.071	.029	.009	-.0001	.011	-.40
	-.30	.004	.019	.012	-.001	.0001	.006	-.30
	-.20	.005	.002	.005	-.007	.0002	.003	-.20
	-.10	.005	.002	.004	-.010	.0003	.000	-.10
	-.05	.005	.004	.005	-.010	.0003	-.001	-.05
	0.00	.006	-.001	.003	-.008	.0003	-.001	0.00
	0.00	.005	-.001	.003	-.008	.0003	-.001	0.00
	.05	.005	.004	.005	-.010	.0003	-.001	.05
	.10	.005	.002	.005	-.007	.0003	-.001	.10
	.20	.005	.003	.007	.001	.0002	-.001	.20
	.30	.004	.020	.014	.012	.0000	.001	.30
	.40	.000	.073	.031	.027	-.0000	.004	.40

10	-.40	.001	.077	.020	.015	.0003	.011	-.40
	-.30	.007	.032	.009	.001	.0003	.006	-.30
	-.20	.008	.021	.007	-.007	.0001	.002	-.20
	-.10	.008	.023	.009	-.010	.0002	-.001	-.10
	-.05	.008	.024	.010	-.010	.0003	-.002	-.05
	0.00	.008	.018	.008	-.006	.0003	-.002	0.00
	0.00	.008	.018	.008	-.007	.0003	-.002	0.00
	.05	.007	.022	.010	-.006	.0003	-.003	.05
	.10	.008	.019	.010	-.004	.0002	-.003	.10
	.20	.008	.019	.010	.003	.0001	-.002	.20
	.30	.007	.030	.012	.012	.0002	.000	.30
	.40	-.000	.078	.023	.025	-.0000	.004	.40

15	-.40	-.002	.110	.010	.032	.0002	.007	-.40
	-.30	.008	.053	.002	.014	.0003	.003	-.30
	-.20	.011	.048	.005	.000	.0004	.000	-.20
	-.10	.009	.046	.008	-.008	.0003	-.000	-.10
	-.05	.009	.048	.010	-.011	.0004	-.000	-.05
	0.00	.010	.041	.009	-.012	.0004	.000	0.00
	0.00	.010	.042	.009	-.012	.0004	.000	0.00
	.05	.009	.046	.011	-.016	.0005	.001	.05
	.10	.009	.046	.009	-.016	.0004	.001	.10
	.20	.010	.049	.007	-.014	.0004	.003	.20
	.30	.007	.069	.003	-.009	.0004	.006	.30
	.40	-.004	.121	.011	-.001	.0002	.008	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.011	.148	.024	.042	-.0001	.023	-.40
	-.30	.007	.101	.007	.024	.0001	.010	-.30
	-.20	.011	.083	.006	.005	.0005	.004	-.20
	-.10	.011	.079	.009	-.007	.0004	.001	-.10
	-.05	.010	.080	.011	-.013	.0005	-.000	-.05
	0.00	.011	.074	.009	-.014	.0003	-.000	0.00
	0.00	.012	.073	.010	-.015	.0003	-.000	0.00
	.05	.010	.076	.010	-.023	.0003	-.000	.05
	.10	.011	.076	.009	-.025	.0004	-.000	.10
	.20	.011	.082	.008	-.025	.0004	-.001	.20
	.30	.007	.102	.009	-.017	.0002	-.003	.30
	.40	-.012	.153	.025	-.001	-.0001	-.007	.40
25	-.40	-.010	.182	.018	.062	-.0001	.034	-.40
	-.30	.006	.134	.007	.032	.0002	.024	-.30
	-.20	.012	.118	.004	.020	.0004	.010	-.20
	-.10	.009	.112	.009	.006	.0004	.000	-.10
	-.05	.007	.111	.012	-.004	.0004	-.001	-.05
	0.00	.009	.103	.012	-.015	.0004	-.000	0.00
	0.00	.009	.103	.012	-.014	.0004	-.001	0.00
	.05	.008	.110	.011	-.030	.0004	.000	.05
	.10	.010	.111	.009	-.035	.0005	-.001	.10
	.20	.010	.119	.006	-.034	.0003	-.008	.20
	.30	.005	.137	.007	-.024	-.0001	-.016	.30
	.40	-.014	.187	.018	-.020	-.0004	-.018	.40
30	-.40	-.010	.220	.009	.091	-.0001	.042	-.40
	-.30	.006	.180	.002	.060	.0002	.033	-.30
	-.20	.008	.165	.000	.033	.0003	.024	-.20
	-.10	.005	.158	.007	.016	.0004	.009	-.10
	-.05	.002	.151	.014	.003	.0004	.002	-.05
	0.00	.005	.144	.016	-.014	.0004	-.001	0.00
	0.00	.006	.144	.017	-.015	.0004	-.001	0.00
	.05	.004	.152	.013	-.037	.0005	-.005	.05
	.10	.006	.155	.007	-.044	.0004	-.001	.10
	.20	.007	.165	.002	-.052	.0002	-.020	.20
	.30	.005	.183	.001	-.056	-.0001	-.023	.30
	.40	-.014	.229	.002	-.050	-.0005	-.023	.40
35	-.40	-.017	.295	-.038	.129	-.0002	.040	-.40
	-.30	.005	.229	-.012	.093	.0001	.033	-.30
	-.20	.011	.210	-.002	.059	.0003	.029	-.20
	-.10	.006	.206	-.002	.027	.0004	.022	-.10
	-.05	.003	.196	.008	.014	.0005	.011	-.05
	0.00	.003	.175	.021	-.012	.0005	-.001	0.00
	0.00	.003	.178	.021	-.008	.0005	-.000	0.00
	.05	.001	.196	.011	-.039	.0003	-.012	.05
	.10	.004	.206	-.000	-.053	.0003	-.021	.10
	.20	.009	.214	-.003	-.077	.0002	-.024	.20
	.30	.003	.240	-.020	-.089	-.0001	-.022	.30
	.40	-.019	.303	-.044	-.092	-.0004	-.024	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.025	.338	-.047	.135	.0000	.063	-.40
	-.30	-.001	.297	-.040	.120	.0003	.037	-.30
	-.20	.006	.266	-.018	.092	.0003	.024	-.20
	-.10	.005	.248	-.001	.054	.0005	.021	-.10
	-.05	.002	.247	.000	.031	.0005	.020	-.05
	0.00	.001	.222	.022	-.001	.0005	.002	0.00
	0.00	.003	.224	.019	.006	.0005	.005	0.00
	.05	-.000	.241	.008	-.048	.0003	-.016	.05
	.10	.003	.249	-.000	-.080	.0003	-.020	.10
	.20	.004	.271	-.018	-.108	.0002	-.020	.20
	.30	-.002	.299	-.041	-.112	-.0001	-.029	.30
	.40	-.025	.347	-.050	-.097	-.0007	-.048	.40
45	-.40	-.039	.375	-.027	.137	.0001	.100	-.40
	-.30	-.008	.345	-.026	.112	.0003	.073	-.30
	-.20	.003	.322	-.022	.098	.0004	.042	-.20
	-.10	.001	.298	-.001	.078	.0004	.019	-.10
	-.05	-.000	.281	.011	.053	.0003	.013	-.05
	0.00	.002	.263	.024	.016	.0005	.006	0.00
	0.00	.001	.262	.027	.007	.0005	.004	0.00
	.05	-.004	.274	.018	-.061	.0003	-.010	.05
	.10	-.002	.294	.002	-.096	.0003	-.017	.10
	.20	-.000	.315	-.016	-.108	-.0000	-.034	.20
	.30	-.009	.343	-.028	-.096	-.0005	-.063	.30
	.40	-.037	.377	-.031	-.088	-.0011	-.084	.40
50	-.40	-.042	.389	-.031	.162	-.0001	.107	-.40
	-.30	-.013	.377	-.019	.116	.0003	.085	-.30
	-.20	-.005	.368	-.011	.091	.0005	.063	-.20
	-.10	-.004	.345	-.002	.073	.0005	.036	-.10
	-.05	-.005	.329	.011	.056	.0004	.020	-.05
	0.00	-.003	.300	.029	.022	.0005	.007	0.00
	0.00	-.003	.298	.030	.017	.0005	.006	0.00
	.05	-.006	.312	.019	-.063	.0003	-.013	.05
	.10	-.004	.333	.004	-.090	.0002	-.029	.10
	.20	-.005	.350	-.011	-.096	-.0000	-.054	.20
	.30	-.013	.367	-.022	-.110	-.0005	-.074	.30
	.40	-.042	.387	-.033	-.126	-.0009	-.091	.40
55	-.40	-.037	.386	-.034	.161	.0001	.111	-.40
	-.30	-.015	.380	-.011	.149	.0004	.093	-.30
	-.20	-.009	.380	.010	.117	.0005	.070	-.20
	-.10	-.011	.380	.021	.087	.0006	.049	-.10
	-.05	-.013	.369	.024	.063	.0006	.033	-.05
	0.00	-.011	.345	.031	.025	.0005	.011	0.00
	0.00	-.010	.349	.033	.031	.0004	.014	0.00
	.05	-.013	.354	.026	-.077	.0003	-.025	.05
	.10	-.012	.365	.020	-.101	.0001	-.041	.10
	.20	-.010	.371	.009	-.121	-.0001	-.062	.20
	.30	-.019	.379	-.013	-.137	-.0006	-.086	.30
	.40	-.043	.399	-.035	-.121	-.0009	-.098	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.046	.437	-.037	.121	.0003	.104	-.40
	-.30	-.023	.405	-.008	.100	.0006	.081	-.30
	-.20	-.013	.403	.013	.091	.0006	.068	-.20
	-.10	-.014	.398	.028	.072	.0006	.049	-.10
	-.05	-.014	.397	.028	.054	.0007	.036	-.05
	0.00	-.012	.378	.033	-.002	.0005	.004	0.00
	0.00	-.012	.378	.033	-.002	.0005	.004	0.00
	.05	-.016	.390	.029	-.073	.0003	-.030	.05
	.10	-.014	.391	.024	-.088	.0002	-.044	.10
	.20	-.014	.397	.015	-.107	-.0001	-.065	.20
	.30	-.021	.408	-.013	-.099	-.0003	-.076	.30
	.40	-.043	.433	-.042	-.094	-.0005	-.093	.40
65	-.40	-.046	.455	-.051	.119	.0004	.105	-.40
	-.30	-.022	.437	-.018	.095	.0005	.084	-.30
	-.20	-.011	.428	.012	.070	.0006	.063	-.20
	-.10	-.011	.423	.028	.049	.0007	.045	-.10
	-.05	-.013	.420	.035	.040	.0008	.035	-.05
	0.00	-.009	.413	.033	-.062	.0004	-.029	0.00
	0.00	-.009	.410	.038	.035	.0006	.026	0.00
	.05	-.013	.417	.031	-.073	.0004	-.037	.05
	.10	-.014	.418	.031	-.079	.0003	-.046	.10
	.20	-.014	.420	.012	-.086	.0001	-.061	.20
	.30	-.022	.434	-.020	-.088	-.0002	-.077	.30
	.40	-.045	.455	-.056	-.082	-.0004	-.096	.40
70	-.40	-.038	.469	-.046	.081	.0006	.096	-.40
	-.30	-.022	.455	-.013	.073	.0007	.079	-.30
	-.20	-.018	.437	.009	.058	.0007	.061	-.20
	-.10	-.018	.433	.027	.035	.0008	.038	-.10
	-.05	-.019	.430	.035	.009	.0007	.017	-.05
	0.00	-.013	.417	.034	-.017	.0006	-.003	0.00
	0.00	-.012	.427	.034	-.015	.0006	-.002	0.00
	.05	-.016	.427	.033	-.051	.0005	-.024	.05
	.10	-.015	.426	.025	-.060	.0004	-.035	.10
	.20	-.016	.430	.012	-.076	.0002	-.059	.20
	.30	-.022	.450	-.009	-.074	.0000	-.074	.30
	.40	-.039	.476	-.052	-.045	-.0003	-.088	.40
75	-.40	-.024	.506	-.101	.031	.0009	.086	-.40
	-.30	-.021	.452	-.020	.051	.0008	.069	-.30
	-.20	-.014	.443	.007	.034	.0008	.049	-.20
	-.10	-.013	.438	.022	.009	.0008	.024	-.10
	-.05	-.014	.433	.024	-.008	.0007	.008	-.05
	0.00	-.010	.430	.027	-.010	.0007	.001	0.00
	0.00	-.010	.437	.024	-.011	.0007	.001	0.00
	.05	-.015	.433	.026	-.024	.0007	-.009	.05
	.10	-.014	.435	.021	-.033	.0006	-.023	.10
	.20	-.014	.445	.006	-.047	.0003	-.046	.20
	.30	-.019	.449	-.026	-.049	.0002	-.067	.30
	.40	-.017	.516	-.111	.008	.0001	-.080	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.013	.548	-.108	.021	.0011	.088	-.40
	-.30	-.012	.491	-.064	.025	.0010	.067	-.30
	-.20	-.009	.438	-.012	.014	.0008	.043	-.20
	-.10	-.006	.432	.000	-.000	.0007	.023	-.10
	-.05	-.005	.431	.002	-.007	.0007	.011	-.05
	0.00	.000	.435	-.001	-.013	.0007	.000	0.00
	0.00	-.002	.422	.005	-.012	.0007	.001	0.00
	.05	-.002	.420	.001	-.022	.0006	-.011	.05
	.10	-.002	.428	-.001	-.028	.0006	-.023	.10
	.20	-.007	.435	-.008	-.030	.0005	-.042	.20
	.30	-.010	.463	-.058	-.020	.0003	-.059	.30
	.40	-.013	.551	-.113	.016	.0002	-.080	.40
85	-.40	-.000	.538	-.087	.004	.0011	.079	-.40
	-.30	.004	.482	-.069	.006	.0010	.063	-.30
	-.20	.010	.410	-.045	-.005	.0008	.043	-.20
	-.10	.006	.405	-.033	-.011	.0007	.021	-.10
	-.05	.006	.403	-.032	-.014	.0007	.010	-.05
	0.00	.007	.400	-.034	-.013	.0007	.001	0.00
	0.00	.006	.402	-.034	-.014	.0007	-.000	0.00
	.05	.006	.399	-.034	-.018	.0007	-.010	.05
	.10	.006	.401	-.032	-.016	.0006	-.020	.10
	.20	.007	.425	-.041	-.015	.0005	-.044	.20
	.30	.002	.479	-.069	-.007	.0003	-.060	.30
	.40	-.003	.531	-.089	.023	.0003	-.073	.40
90	-.40	.014	.532	-.080	-.012	.0010	.076	-.40
	-.30	.019	.469	-.073	-.018	.0009	.061	-.30
	-.20	.021	.416	-.085	-.027	.0008	.045	-.20
	-.10	.021	.402	-.093	-.020	.0008	.022	-.10
	-.05	.020	.401	-.089	-.017	.0008	.011	-.05
	0.00	.021	.396	-.089	-.013	.0007	.002	0.00
	0.00	.022	.402	-.091	-.008	.0007	.001	0.00
	.05	.021	.404	-.094	-.006	.0007	-.010	.05
	.10	.023	.406	-.097	-.002	.0006	-.021	.10
	.20	.018	.427	-.084	.007	.0006	-.045	.20
	.30	.022	.473	-.081	.016	.0004	-.059	.30
	.40	.014	.524	-.086	.023	.0003	-.071	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.000	.065	.009	-.015	.0003	-.005	-.40
	-.30	.001	.019	-.005	-.006	.0003	-.002	-.30
	-.20	.001	.009	-.006	.001	.0004	-.000	-.20
	-.10	.001	.012	-.003	.005	.0005	.001	-.10
	-.05	.001	.014	-.002	.006	.0005	.001	-.05
	0.00	.001	.007	-.005	.001	.0004	.001	0.00
	0.00	.002	.007	-.004	.003	.0004	.001	0.00
	.05	.002	.012	-.002	.002	.0005	.001	.05
	.10	.002	.009	-.003	.001	.0004	.001	.10
	.20	.001	.007	-.005	-.001	.0004	-.000	.20
	.30	.001	.021	-.004	-.006	.0003	-.002	.30
	.40	-.001	.071	.011	-.016	.0004	-.005	.40

5	-.40	-.001	.077	.026	-.023	-.0000	-.001	-.40
	-.30	.003	.025	.008	-.014	.0002	.001	-.30
	-.20	.003	.010	.002	-.007	.0003	.002	-.20
	-.10	.003	.010	.003	-.002	.0003	.002	-.10
	-.05	.002	.012	.003	.000	.0003	.002	-.05
	0.00	.004	.006	.001	.001	.0003	.002	0.00
	0.00	.004	.007	.002	.001	.0003	.002	0.00
	.05	.003	.012	.004	.004	.0004	.002	.05
	.10	.003	.010	.004	.004	.0003	.001	.10
	.20	.003	.011	.004	.001	.0003	-.001	.20
	.30	.003	.026	.010	-.005	.0001	-.004	.30
	.40	-.002	.078	.028	-.016	.0000	-.009	.40

10	-.40	-.006	.093	.034	-.016	-.0003	-.001	-.40
	-.30	.004	.039	.014	-.011	.0000	.001	-.30
	-.20	.007	.022	.008	-.006	.0002	.003	-.20
	-.10	.007	.020	.007	-.003	.0003	.003	-.10
	-.05	.006	.022	.008	-.002	.0003	.003	-.05
	0.00	.008	.014	.006	-.001	.0003	.003	0.00
	0.00	.008	.014	.006	-.000	.0003	.003	0.00
	.05	.007	.020	.009	.001	.0003	.003	.05
	.10	.007	.018	.009	.001	.0003	.002	.10
	.20	.007	.021	.011	.001	.0001	-.000	.20
	.30	.004	.039	.017	-.003	.0001	-.003	.30
	.40	-.006	.096	.036	-.013	-.0003	-.008	.40

15	-.40	-.011	.126	.023	.006	-.0003	-.000	-.40
	-.30	.002	.074	.010	.009	-.0002	-.002	-.30
	-.20	.006	.057	.011	.008	.0002	-.001	-.20
	-.10	.006	.055	.014	.007	.0002	.001	-.10
	-.05	.005	.057	.015	.006	.0004	.001	-.05
	0.00	.006	.050	.013	.005	.0003	.001	0.00
	0.00	.007	.050	.012	.004	.0003	.001	0.00
	.05	.005	.057	.015	.004	.0003	.001	.05
	.10	.006	.056	.014	.001	.0003	.001	.10
	.20	.007	.058	.012	-.006	.0002	-.000	.20
	.30	.003	.075	.010	-.017	-.0000	-.003	.30
	.40	-.011	.127	.025	-.033	-.0002	-.008	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.017	.168	.045	.026	.0000	.019	-.40
	-.30	.002	.116	.023	.024	.0002	.014	-.30
	-.20	.008	.095	.016	.027	.0003	.005	-.20
	-.10	.007	.088	.018	.018	.0003	.002	-.10
	-.05	.006	.088	.021	.011	.0003	.002	-.05
	0.00	.008	.081	.020	.003	.0002	.002	0.00
	0.00	.008	.082	.019	.004	.0002	.002	0.00
	.05	.006	.088	.022	-.003	.0002	.002	.05
	.10	.007	.087	.020	-.009	.0002	.000	.10
	.20	.007	.095	.019	-.022	.0002	-.005	.20
	.30	.001	.117	.023	-.035	.0001	-.016	.30
	.40	-.019	.171	.045	-.059	-.0002	-.027	.40
25	-.40	-.015	.199	.033	.049	-.0001	.029	-.40
	-.30	.001	.153	.023	.047	.0002	.024	-.30
	-.20	.006	.137	.019	.038	.0002	.017	-.20
	-.10	.003	.131	.024	.031	.0003	.006	-.10
	-.05	.000	.129	.028	.021	.0003	.003	-.05
	0.00	.002	.121	.029	.002	.0003	.002	0.00
	0.00	.002	.122	.029	.003	.0003	.002	0.00
	.05	-.000	.127	.029	-.009	.0002	.001	.05
	.10	.002	.130	.025	-.020	.0003	-.004	.10
	.20	.004	.136	.021	-.036	.0001	-.017	.20
	.30	-.000	.155	.022	-.059	-.0001	-.028	.30
	.40	-.016	.204	.028	-.084	-.0003	-.039	.40
30	-.40	-.025	.275	.001	.092	-.0006	.036	-.40
	-.30	.002	.208	.012	.078	-.0000	.033	-.30
	-.20	.007	.182	.022	.067	.0033	.031	-.20
	-.10	.007	.173	.024	.047	.0005	.021	-.10
	-.05	.005	.166	.031	.031	.0006	.011	-.05
	0.00	.007	.151	.036	.003	.0004	.002	0.00
	0.00	.006	.151	.036	.003	.0004	.002	0.00
	.05	.004	.164	.030	-.020	.0006	-.007	.05
	.10	.006	.172	.022	-.034	.0004	-.019	.10
	.20	.007	.181	.022	-.060	.0001	-.031	.20
	.30	.002	.211	.006	-.084	-.0004	-.035	.30
	.40	-.027	.273	-.001	-.118	-.0010	-.045	.40
35	-.40	-.032	.333	-.018	.095	-.0001	.048	-.40
	-.30	-.004	.275	-.015	.098	.0001	.034	-.30
	-.20	.007	.238	.006	.105	.0004	.027	-.20
	-.10	.005	.220	.024	.083	.0006	.029	-.10
	-.05	.002	.212	.027	.056	.0007	.023	-.05
	0.00	.004	.191	.043	.015	.0006	.001	0.00
	0.00	.004	.193	.041	.015	.0005	.001	0.00
	.05	.002	.215	.026	-.020	.0004	-.019	.05
	.10	.004	.223	.023	-.044	.0004	-.026	.10
	.20	.005	.249	.002	-.083	.0002	-.030	.20
	.30	-.005	.280	-.017	-.118	-.0002	-.044	.30
	.40	-.032	.335	-.017	-.157	-.0008	-.071	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.035	.355	.003	.086	.0001	.089	-.40
	-.30	-.006	.323	-.001	.101	.0005	.069	-.30
	-.20	.002	.302	-.000	.114	.0007	.043	-.20
	-.10	.002	.286	.017	.120	.0008	.026	-.10
	-.05	.000	.266	.032	.092	.0008	.023	-.05
	0.00	.001	.240	.044	.017	.0006	.002	0.00
	0.00	.001	.242	.046	.015	.0006	.001	0.00
	.05	-.000	.266	.029	-.046	.0005	-.019	.05
	.10	.002	.286	.014	-.077	.0005	-.022	.10
	.20	.002	.303	.003	-.098	.0002	-.039	.20
	.30	-.006	.324	.001	-.116	-.0003	-.073	.30
	.40	-.036	.360	.004	-.150	-.0009	-.111	.40
45	-.40	-.044	.398	-.002	.117	.0002	.106	-.40
	-.30	-.012	.363	.012	.112	.0005	.087	-.30
	-.20	-.001	.346	.018	.107	.0008	.071	-.20
	-.10	.001	.337	.021	.109	.0008	.049	-.10
	-.05	.000	.315	.030	.105	.0008	.028	-.05
	0.00	.001	.283	.050	.026	.0007	.005	0.00
	0.00	.002	.283	.044	.052	.0007	.011	0.00
	.05	.000	.323	.026	-.054	.0006	-.019	.05
	.10	.001	.343	.022	-.074	.0005	-.037	.10
	.20	-.002	.346	.025	-.085	.0001	-.070	.20
	.30	-.011	.363	.012	-.122	-.0005	-.098	.30
	.40	-.044	.402	-.002	-.189	-.0011	-.134	.40
50	-.40	-.052	.376	-.001	.170	.0003	.131	-.40
	-.30	-.016	.398	.012	.146	.0007	.101	-.30
	-.20	-.004	.382	.029	.125	.0009	.079	-.20
	-.10	-.003	.371	.032	.110	.0011	.061	-.10
	-.05	-.004	.355	.038	.099	.0010	.049	-.05
	0.00	-.002	.324	.050	.046	.0008	.013	0.00
	0.00	-.002	.326	.048	.045	.0008	.011	0.00
	.05	-.005	.375	.036	-.041	.0006	-.030	.05
	.10	-.005	.380	.042	-.060	.0004	-.049	.10
	.20	-.005	.387	.035	-.098	.0000	-.078	.20
	.30	-.017	.404	.009	-.154	-.0005	-.110	.30
	.40	-.052	.385	-.004	-.239	-.0014	-.154	.40
55	-.40	-.043	.430	.011	.065	.0004	.093	-.40
	-.30	-.021	.388	.029	.120	.0007	.096	-.30
	-.20	-.014	.397	.054	.165	.0009	.100	-.20
	-.10	-.015	.389	.055	.150	.0008	.077	-.10
	-.05	-.017	.384	.062	.134	.0007	.064	-.05
	0.00	-.013	.401	.068	.107	.0006	.048	0.00
	0.00	-.013	.398	.067	.113	.0006	.048	0.00
	.05	-.016	.413	.076	.045	.0004	.012	.05
	.10	-.015	.409	.074	-.035	.0004	-.031	.10
	.20	-.016	.395	.058	-.133	-.0002	-.094	.20
	.30	-.022	.394	.033	-.156	-.0005	-.117	.30
	.40	-.048	.446	.022	-.155	-.0010	-.124	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.054	.482	.030	.052	.0004	.091	-.40
	-.30	-.024	.457	.057	.071	.0007	.076	-.30
	-.20	-.015	.424	.065	.092	.0009	.069	-.20
	-.10	-.013	.436	.099	.100	.0005	.059	-.10
	-.05	-.015	.429	.099	.096	.0006	.051	-.05
	0.00	-.011	.420	.097	.086	.0005	.046	0.00
	0.00	-.011	.425	.095	.088	.0005	.045	0.00
	.05	-.014	.418	.090	.073	.0005	.035	.05
	.10	-.014	.422	.085	.058	.0004	.023	.10
	.20	-.015	.434	.070	-.076	.0001	-.074	.20
	.30	-.026	.457	.055	-.099	-.0003	-.090	.30
	.40	-.056	.501	.025	-.141	-.0009	-.115	.40
65	-.40	-.047	.530	.034	.070	.0004	.103	-.40
	-.30	-.026	.501	.073	.069	.0006	.077	-.30
	-.20	-.019	.476	.081	.054	.0009	.052	-.20
	-.10	-.022	.471	.099	.047	.0009	.040	-.10
	-.05	-.024	.473	.122	.049	.0006	.036	-.05
	0.00	-.022	.463	.117	.029	.0006	.026	0.00
	0.00	-.022	.457	.111	.030	.0006	.023	0.00
	.05	-.027	.464	.109	.021	.0006	.017	.05
	.10	-.025	.463	.102	-.034	.0005	-.040	.10
	.20	-.021	.478	.083	-.057	.0002	-.063	.20
	.30	-.023	.504	.062	-.064	-.0002	-.073	.30
	.40	-.041	.536	.025	-.083	-.0008	-.104	.40
70	-.40	-.047	.557	-.001	.041	.0006	.105	-.40
	-.30	-.025	.541	.045	.049	.0008	.077	-.30
	-.20	-.015	.509	.076	.046	.0009	.050	-.20
	-.10	-.011	.492	.090	.033	.0009	.024	-.10
	-.05	-.012	.488	.094	.025	.0009	.011	-.05
	0.00	-.007	.475	.096	.008	.0008	.001	0.00
	0.00	-.007	.481	.094	.017	.0008	.005	0.00
	.05	-.010	.483	.095	-.003	.0008	-.012	.05
	.10	-.011	.482	.091	-.011	.0006	-.023	.10
	.20	-.014	.494	.074	-.032	.0003	-.050	.20
	.30	-.027	.530	.040	-.055	.0000	-.080	.30
	.40	-.053	.560	-.002	-.072	-.0004	-.113	.40
75	-.40	-.035	.563	-.070	.001	.0009	.087	-.40
	-.30	-.023	.534	.011	.040	.0011	.080	-.30
	-.20	-.007	.526	.051	.040	.0010	.053	-.20
	-.10	-.009	.500	.073	.034	.0009	.028	-.10
	-.05	-.009	.498	.080	.024	.0009	.013	-.05
	0.00	-.004	.490	.079	.014	.0009	.002	0.00
	0.00	.000	.500	.071	.010	.0009	-.001	0.00
	.05	-.006	.494	.079	.009	.0007	-.009	.05
	.10	-.006	.495	.075	-.000	.0007	-.023	.10
	.20	-.010	.507	.056	-.022	.0004	-.053	.20
	.30	-.023	.541	.008	-.046	.0002	-.081	.30
	.40	-.038	.562	-.073	-.042	-.0000	-.098	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.026	.578	-.072	-.009	.0011	.090	-.40
	-.30	-.010	.525	-.033	.019	.0012	.070	-.30
	-.20	-.001	.524	.028	.033	.0011	.054	-.20
	-.10	.000	.495	.045	.026	.0011	.028	-.10
	-.05	.001	.484	.043	.022	.0010	.013	-.05
	0.00	.003	.474	.047	.015	.0009	.000	0.00
	0.00	.003	.481	.046	.014	.0009	-.000	0.00
	.05	.002	.482	.048	.012	.0008	-.012	.05
	.10	.003	.490	.040	.006	.0007	-.026	.10
	.20	-.004	.517	.026	-.011	.0005	-.054	.20
	.30	-.011	.514	-.034	-.027	.0005	-.076	.30
	.40	-.031	.588	-.074	-.033	.0003	-.095	.40
85	-.40	-.018	.586	-.050	-.010	.0014	.085	-.40
	-.30	.001	.520	-.033	.010	.0013	.068	-.30
	-.20	.011	.469	-.014	.010	.0012	.050	-.20
	-.10	.012	.449	-.014	.015	.0012	.027	-.10
	-.05	.012	.457	-.014	.016	.0010	.013	-.05
	0.00	.012	.465	-.009	.018	.0010	-.001	0.00
	0.00	.012	.467	-.009	.013	.0010	-.000	0.00
	.05	.012	.465	-.014	.019	.0010	-.012	.05
	.10	.013	.457	-.016	.018	.0009	-.025	.10
	.20	.014	.457	-.021	.007	.0008	-.052	.20
	.30	-.000	.512	-.031	-.010	.0006	-.072	.30
	.40	-.016	.579	-.046	-.027	.0006	-.091	.40
90	-.40	-.003	.586	-.035	-.017	.0014	.086	-.40
	-.30	.012	.518	-.035	-.008	.0013	.063	-.30
	-.20	.015	.473	-.049	-.006	.0012	.052	-.20
	-.10	.017	.448	-.063	.007	.0011	.025	-.10
	-.05	.017	.439	-.063	.014	.0010	.012	-.05
	0.00	.016	.434	-.063	.018	.0010	-.002	0.00
	0.00	.016	.443	-.061	.017	.0010	.000	0.00
	.05	.015	.441	-.064	.023	.0009	-.011	.05
	.10	.015	.449	-.064	.025	.0008	-.025	.10
	.20	.013	.471	-.055	.024	.0008	-.051	.20
	.30	.012	.511	-.038	.008	.0006	-.068	.30
	.40	.002	.577	-.040	-.009	.0007	-.089	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.002	.074	.021	-.017	.0004	-.015	-.40
	-.30	.002	.023	-.001	-.002	.0004	-.007	-.30
	-.20	.002	.010	-.006	.008	.0003	-.002	-.20
	-.10	.001	.012	-.003	.014	.0003	.002	-.10
	-.05	.001	.014	-.002	.015	.0004	.002	-.05
	0.00	.000	.005	-.005	.015	.0004	.003	0.00
	0.00	.001	.006	-.005	.015	.0005	.003	0.00
	.05	.001	.011	-.002	.015	.0006	.002	.05
	.10	.001	.009	-.003	.013	.0004	.002	.10
	.20	.001	.007	-.005	.006	.0004	-.002	.20
	.30	.001	.021	.000	-.007	.0004	-.007	.30
	.40	.002	.075	.023	-.028	.0005	-.016	.40

5	-.40	-.003	.085	.033	-.032	.0001	-.012	-.40
	-.30	.003	.030	.010	-.012	.0002	-.004	-.30
	-.20	.004	.014	.003	.003	.0003	.001	-.20
	-.10	.004	.015	.005	.013	.0003	.003	-.10
	-.05	.003	.017	.006	.016	.0004	.004	-.05
	0.00	.004	.012	.003	.014	.0004	.003	0.00
	0.00	.004	.012	.003	.014	.0004	.003	0.00
	.05	.004	.017	.006	.017	.0004	.003	.05
	.10	.004	.015	.005	.016	.0004	.002	.10
	.20	.004	.014	.005	.011	.0003	-.002	.20
	.30	.003	.031	.012	.000	.0002	-.009	.30
	.40	-.002	.088	.036	-.016	.0000	-.018	.40

10	-.40	-.004	.099	.038	-.025	-.0002	-.011	-.40
	-.30	.005	.045	.013	-.008	-.0000	-.004	-.30
	-.20	.007	.030	.010	.003	.0002	.001	-.20
	-.10	.007	.031	.012	.010	.0004	.004	-.10
	-.05	.007	.033	.014	.012	.0004	.004	-.05
	0.00	.008	.025	.011	.013	.0004	.004	0.00
	0.00	.007	.025	.011	.012	.0004	.004	0.00
	.05	.007	.032	.015	.015	.0004	.004	.05
	.10	.007	.030	.014	.014	.0004	.003	.10
	.20	.008	.030	.013	.007	.0002	-.002	.20
	.30	.007	.045	.015	-.008	.0000	-.009	.30
	.40	-.002	.101	.039	-.032	-.0001	-.020	.40

15	-.40	-.015	.136	.050	-.002	-.0000	-.005	-.40
	-.30	.005	.079	.024	.014	.0001	-.004	-.30
	-.20	.009	.059	.019	.022	.0002	-.001	-.20
	-.10	.010	.056	.020	.024	.0004	.002	-.10
	-.05	.009	.058	.022	.024	.0004	.003	-.05
	0.00	.010	.052	.019	.018	.0004	.003	0.00
	0.00	.010	.051	.019	.017	.0004	.003	0.00
	.05	.010	.056	.022	.016	.0004	.003	.05
	.10	.010	.055	.021	.011	.0003	.002	.10
	.20	.009	.059	.020	-.004	.0002	-.002	.20
	.30	.005	.082	.025	-.025	.0002	-.010	.30
	.40	-.016	.142	.055	-.055	-.0000	-.023	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.018	.187	.070	.030	.0003	.024	-.40
	-.30	.003	.130	.041	.042	.0003	.019	-.30
	-.20	.010	.104	.029	.046	.0003	.012	-.20
	-.10	.009	.095	.030	.041	.0003	.005	-.10
	-.05	.008	.095	.032	.033	.0004	.004	-.05
	0.00	.010	.087	.031	.019	.0005	.003	0.00
	0.00	.010	.087	.031	.020	.0004	.003	0.00
	.05	.007	.096	.034	.010	.0003	.002	.05
	.10	.008	.097	.031	-.002	.0003	-.000	.10
	.20	.008	.105	.031	-.026	.0003	-.012	.20
	.30	.003	.127	.039	-.056	.0002	-.029	.30
	.40	-.016	.186	.065	-.087	-.0002	-.050	.40
25	-.40	-.018	.230	.039	.065	-.0001	.044	-.40
	-.30	.003	.167	.038	.057	.0002	.041	-.30
	-.20	.008	.143	.034	.056	.0004	.032	-.20
	-.10	.009	.134	.037	.048	.0006	.016	-.10
	-.05	.006	.128	.042	.037	.0006	.008	-.05
	0.00	.009	.121	.040	.019	.0004	.002	0.00
	0.00	.007	.120	.041	.013	.0004	.002	0.00
	.05	.007	.129	.038	-.006	.0006	-.001	.05
	.10	.008	.134	.034	-.026	.0005	-.009	.10
	.20	.008	.143	.034	-.053	.0002	-.028	.20
	.30	.004	.171	.032	-.077	-.0002	-.042	.30
	.40	-.020	.236	.041	-.111	-.0004	-.055	.40
30	-.40	-.027	.286	.010	.108	-.0002	.063	-.40
	-.30	.002	.225	.014	.081	.0001	.055	-.30
	-.20	.011	.196	.029	.078	.0006	.043	-.20
	-.10	.005	.180	.040	.072	.0007	.035	-.10
	-.05	.002	.167	.051	.063	.0005	.028	-.05
	0.00	.006	.168	.045	.040	.0006	.013	0.00
	0.00	.006	.170	.043	.039	.0005	.014	0.00
	.05	.002	.186	.038	-.007	.0004	-.004	.05
	.10	.007	.188	.037	-.039	.0004	-.023	.10
	.20	.010	.204	.024	-.076	.0001	-.036	.20
	.30	.003	.225	.015	-.104	-.0002	-.050	.30
	.40	-.026	.289	.010	-.152	-.0008	-.074	.40
35	-.40	-.028	.317	.020	.149	.0004	.117	-.40
	-.30	-.002	.288	.011	.134	.0004	.085	-.30
	-.20	.005	.259	.022	.119	.0006	.056	-.20
	-.10	.002	.224	.050	.084	.0005	.044	-.10
	-.05	-.002	.220	.057	.087	.0005	.034	-.05
	0.00	.004	.239	.043	.075	.0005	.029	0.00
	0.00	.003	.240	.043	.075	.0005	.030	0.00
	.05	-.001	.258	.043	.036	.0004	.014	.05
	.10	.001	.261	.038	-.042	.0004	-.023	.10
	.20	.002	.269	.028	-.098	.0001	-.042	.20
	.30	-.002	.281	.017	-.137	-.0004	-.073	.30
	.40	-.026	.314	.015	-.181	-.0009	-.121	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.044	.355	.021	.199	.0005	.168	-.40
	-.30	-.010	.321	.042	.170	.0006	.141	-.30
	-.20	.001	.312	.046	.146	.0007	.110	-.20
	-.10	.001	.279	.064	.109	.0005	.073	-.10
	-.05	.002	.313	.067	.094	.0005	.057	-.05
	0.00	.005	.305	.065	.086	.0004	.045	0.00
	0.00	.006	.307	.072	.088	.0005	.047	0.00
	.05	.001	.307	.072	.088	.0003	.034	.05
	.10	.001	.304	.068	.044	.0003	.011	.10
	.20	.002	.302	.052	-.092	-.0002	-.075	.20
	.30	-.009	.310	.026	-.161	-.0006	-.131	.30
	.40	-.042	.340	.004	-.223	-.0014	-.179	.40
45	-.40	-.043	.391	.004	.228	.0007	.174	-.40
	-.30	-.012	.353	.032	.210	.0009	.152	-.30
	-.20	-.001	.365	.066	.177	.0008	.129	-.20
	-.10	-.003	.379	.121	.139	.0005	.104	-.10
	-.05	-.005	.379	.118	.123	.0004	.090	-.05
	0.00	.001	.374	.106	.103	.0004	.075	0.00
	0.00	.001	.372	.106	.105	.0004	.076	0.00
	.05	-.001	.373	.093	.086	.0004	.065	.05
	.10	-.000	.361	.075	.067	.0002	.050	.10
	.20	-.001	.348	.044	-.114	-.0001	-.093	.20
	.30	-.011	.352	.007	-.217	-.0005	-.154	.30
	.40	-.045	.376	-.012	-.266	-.0012	-.184	.40
50	-.40	-.049	.406	.028	.173	.0004	.154	-.40
	-.30	-.019	.395	.044	.201	.0009	.152	-.30
	-.20	-.004	.394	.076	.184	.0010	.125	-.20
	-.10	-.006	.436	.143	.162	.0006	.104	-.10
	-.05	-.008	.419	.132	.147	.0005	.092	-.05
	0.00	-.003	.407	.121	.123	.0005	.081	0.00
	0.00	-.003	.404	.117	.124	.0005	.081	0.00
	.05	-.009	.399	.106	.105	.0005	.069	.05
	.10	-.008	.393	.091	.087	.0003	.056	.10
	.20	-.007	.386	.054	-.158	-.0000	-.111	.20
	.30	-.017	.354	.021	-.208	-.0006	-.155	.30
	.40	-.046	.395	.015	-.214	-.0012	-.170	.40
55	-.40	-.048	.486	.109	.124	.0002	.135	-.40
	-.30	-.022	.412	.071	.145	.0007	.126	-.30
	-.20	-.010	.463	.179	.149	.0006	.116	-.20
	-.10	-.013	.443	.161	.131	.0007	.095	-.10
	-.05	-.015	.437	.152	.117	.0006	.083	-.05
	0.00	-.011	.425	.139	.095	.0005	.070	0.00
	0.00	-.012	.424	.142	.099	.0004	.071	0.00
	.05	-.016	.417	.128	.080	.0006	.059	.05
	.10	-.015	.404	.108	.059	.0004	.043	.10
	.20	-.014	.387	.078	.007	.0000	.006	.20
	.30	-.020	.399	.053	-.143	-.0004	-.125	.30
	.40	-.044	.424	.019	-.097	-.0009	-.103	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.053	.487	.062	.087	.0005	.121	-.40
	-.30	-.022	.475	.111	.118	.0006	.119	-.30
	-.20	-.010	.459	.146	.137	.0009	.113	-.20
	-.10	-.011	.449	.153	.098	.0008	.078	-.10
	-.05	-.014	.438	.148	.083	.0008	.063	-.05
	0.00	-.010	.435	.143	.062	.0006	.051	0.00
	0.00	-.010	.436	.142	.060	.0007	.049	0.00
	.05	-.013	.426	.129	.042	.0006	.034	.05
	.10	-.011	.418	.116	.012	.0005	.009	.10
	.20	-.013	.413	.077	-.066	.0000	-.054	.20
	.30	-.022	.427	.043	-.066	-.0004	-.077	.30
	.40	-.052	.496	.045	-.133	-.0008	-.134	.40
65	-.40	-.040	.541	.038	.076	.0007	.126	-.40
	-.30	-.020	.492	.090	.096	.0008	.107	-.30
	-.20	-.014	.470	.087	.102	.0009	.095	-.20
	-.10	-.019	.471	.148	.114	.0009	.090	-.10
	-.05	-.020	.467	.140	.109	.0009	.081	-.05
	0.00	-.012	.441	.127	.073	.0006	.058	0.00
	0.00	-.013	.441	.133	.080	.0005	.061	0.00
	.05	-.025	.443	.120	-.014	.0004	-.014	.05
	.10	-.021	.449	.102	-.042	.0004	-.041	.10
	.20	-.016	.465	.088	-.081	.0002	-.089	.20
	.30	-.019	.490	.074	-.085	-.0002	-.098	.30
	.40	-.037	.540	.033	-.104	-.0005	-.135	.40
70	-.40	-.051	.588	.028	.047	.0010	.117	-.40
	-.30	-.020	.551	.078	.063	.0010	.092	-.30
	-.20	-.007	.509	.105	.067	.0010	.071	-.20
	-.10	-.005	.502	.119	.058	.0010	.051	-.10
	-.05	-.010	.496	.129	.061	.0009	.048	-.05
	0.00	-.006	.503	.128	.029	.0007	.021	0.00
	0.00	-.004	.494	.125	.025	.0008	.017	0.00
	.05	-.012	.499	.114	.007	.0006	-.007	.05
	.10	-.006	.499	.116	-.034	.0005	-.046	.10
	.20	-.008	.507	.094	-.051	.0004	-.069	.20
	.30	-.020	.533	.067	-.065	.0001	-.097	.30
	.40	-.048	.589	.021	-.086	-.0001	-.131	.40
75	-.40	-.038	.598	-.014	.028	.0011	.103	-.40
	-.30	-.019	.568	.052	.051	.0012	.087	-.30
	-.20	-.005	.515	.092	.047	.0010	.063	-.20
	-.10	-.004	.497	.108	.037	.0009	.037	-.10
	-.05	-.004	.503	.107	.031	.0009	.024	-.05
	0.00	.001	.517	.110	.016	.0009	.007	0.00
	0.00	.001	.505	.112	.021	.0009	.014	0.00
	.05	-.005	.501	.106	.003	.0009	-.010	.05
	.10	-.007	.507	.106	-.008	.0009	-.027	.10
	.20	-.006	.535	.081	-.032	.0006	-.060	.20
	.30	-.016	.550	.053	-.053	.0003	-.096	.30
	.40	-.034	.599	-.016	-.052	.0001	-.108	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.032	.602	-.026	.018	.0012	.101	-.40
	-.30	-.001	.546	-.004	.025	.0012	.078	-.30
	-.20	.004	.533	.069	.039	.0011	.062	-.20
	-.10	.005	.485	.082	.027	.0010	.032	-.10
	-.05	.007	.488	.078	.022	.0009	.017	-.05
	0.00	.013	.492	.082	.012	.0011	.002	0.00
	0.00	.011	.504	.087	.013	.0011	.002	0.00
	.05	.006	.492	.085	.009	.0009	-.011	.05
	.10	.005	.503	.091	.000	.0009	-.028	.10
	.20	.002	.538	.079	-.021	.0006	-.062	.20
	.30	.002	.539	-.003	-.021	.0006	-.080	.30
	.40	-.029	.604	-.026	-.034	.0003	-.107	.40
85	-.40	-.016	.638	-.005	.018	.0013	.104	-.40
	-.30	.003	.550	.018	.021	.0013	.076	-.30
	-.20	.015	.490	.029	.014	.0012	.058	-.20
	-.10	.013	.492	.040	.011	.0012	.030	-.10
	-.05	.012	.503	.048	.014	.0011	.017	-.05
	0.00	.016	.501	.048	.013	.0011	.002	0.00
	0.00	.015	.487	.039	.013	.0011	.001	0.00
	.05	.011	.499	.038	.011	.0010	-.014	.05
	.10	.016	.469	.011	.008	.0009	-.030	.10
	.20	.016	.487	.024	-.002	.0008	-.056	.20
	.30	.007	.552	.015	-.021	.0007	-.079	.30
	.40	-.011	.632	-.001	-.028	.0006	-.108	.40
90	-.40	-.003	.619	.025	.009	.0014	.102	-.40
	-.30	.016	.536	.017	.009	.0013	.074	-.30
	-.20	.022	.487	-.012	-.002	.0012	.056	-.20
	-.10	.017	.470	-.024	.004	.0012	.030	-.10
	-.05	.017	.469	-.026	.008	.0011	.014	-.05
	0.00	.020	.471	-.026	.010	.0011	.002	0.00
	0.00	.020	.448	-.023	.010	.0011	.001	0.00
	.05	.019	.469	-.024	.015	.0010	-.013	.05
	.10	.019	.471	-.023	.016	.0010	-.028	.10
	.20	.021	.491	-.012	.016	.0008	-.055	.20
	.30	.017	.545	.015	-.005	.0008	-.074	.30
	.40	.002	.605	.020	-.024	.0008	-.104	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.015	.051	.037	.018	.0004	-.006	-.40
	-.30	-.013	-.004	.010	.018	.0004	-.003	-.30
	-.20	-.014	-.018	.003	.019	.0004	-.001	-.20
	-.10	-.014	-.017	.004	.020	.0003	.000	-.10
	-.05	-.014	-.014	.005	.020	.0003	.000	-.05
	0.00	-.014	-.019	.003	.020	.0004	.001	0.00
	0.00	-.014	-.019	.003	.019	.0004	.000	0.00
	.05	-.014	-.015	.005	.020	.0003	.000	.05
	.10	-.013	-.017	.004	.020	.0003	-.000	.10
	.20	-.014	-.017	.003	.017	.0004	-.002	.20
	.30	-.014	.001	.010	.015	.0004	-.005	.30
	.40	-.015	.059	.037	.009	.0004	-.009	.40

5	-.40	-.019	.065	.053	.005	.0001	-.004	-.40
	-.30	-.012	.008	.024	.007	.0003	-.002	-.30
	-.20	-.011	-.010	.014	.011	.0003	.000	-.20
	-.10	-.011	-.011	.014	.014	.0003	.000	-.10
	-.05	-.011	-.008	.014	.016	.0004	.000	-.05
	0.00	-.010	-.014	.012	.019	.0003	.000	0.00
	0.00	-.010	-.012	.012	.020	.0003	.000	0.00
	.05	-.011	-.006	.015	.019	.0003	-.000	.05
	.10	-.011	-.008	.014	.020	.0002	-.001	.10
	.20	-.011	-.008	.014	.020	.0003	-.004	.20
	.30	-.013	.007	.022	.019	.0003	-.007	.30
	.40	-.020	.063	.049	.017	.0003	-.012	.40

10	-.40	-.022	.078	.054	.014	.0002	-.003	-.40
	-.30	-.010	.025	.027	.012	.0003	-.001	-.30
	-.20	-.008	.009	.021	.014	.0003	-.000	-.20
	-.10	-.008	.009	.023	.016	.0003	-.000	-.10
	-.05	-.008	.011	.024	.017	.0003	-.000	-.05
	0.00	-.007	.006	.022	.018	.0002	-.001	0.00
	0.00	-.007	.004	.021	.011	.0002	-.001	0.00
	.05	-.008	.009	.024	.016	.0003	-.001	.05
	.10	-.008	.007	.023	.017	.0003	-.002	.10
	.20	-.009	.008	.023	.015	.0002	-.004	.20
	.30	-.012	.026	.027	.011	.0002	-.007	.30
	.40	-.023	.082	.055	.005	.0002	-.014	.40

15	-.40	-.033	.119	.075	.049	.0002	.010	-.40
	-.30	-.012	.062	.040	.040	.0004	.004	-.30
	-.20	-.007	.040	.031	.032	.0002	.001	-.20
	-.10	-.006	.035	.033	.023	.0004	-.001	-.10
	-.05	-.007	.036	.034	.019	.0005	-.001	-.05
	0.00	-.005	.028	.032	.016	.0003	-.001	0.00
	0.00	-.004	.027	.032	.018	.0003	-.001	0.00
	.05	-.006	.034	.035	.012	.0004	-.001	.05
	.10	-.006	.033	.034	.005	.0003	-.002	.10
	.20	-.007	.037	.033	-.009	.0002	-.004	.20
	.30	-.012	.057	.039	-.021	.0002	-.012	.30
	.40	-.032	.113	.071	-.036	.0002	-.026	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.056	.185	.067	.066	.0002	.034	-.40
	-.30	-.003	.126	.041	.064	.0002	.026	-.30
	-.20	.028	.107	.031	.059	.0002	.016	-.20
	-.10	.043	.102	.034	.048	.0004	.006	-.10
	-.05	.045	.102	.038	.038	.0003	.002	-.05
	0.00	.046	.096	.038	.022	.0001	-.001	0.00
	0.00	.047	.097	.038	.022	.0001	-.002	0.00
	.05	.044	.100	.041	.001	.0002	-.003	.05
	.10	.042	.100	.038	-.016	.0002	-.004	.10
	.20	.027	.109	.036	-.034	.0000	-.017	.20
	.30	-.003	.131	.043	-.049	-.0001	-.033	.30
	.40	-.057	.192	.067	-.067	-.0005	-.049	.40
25	-.40	-.041	.215	.056	.097	.0007	.048	-.40
	-.30	-.013	.154	.041	.085	.0005	.041	-.30
	-.20	-.006	.126	.050	.072	.0003	.038	-.20
	-.10	-.006	.121	.050	.064	.0004	.026	-.10
	-.05	-.006	.119	.050	.056	.0003	.017	-.05
	0.00	-.003	.105	.055	.043	.0003	.006	0.00
	0.00	-.003	.107	.054	.042	.0003	.006	0.00
	.05	-.009	.105	.060	.008	.0001	-.003	.05
	.10	-.007	.111	.052	-.024	.0001	-.012	.10
	.20	-.008	.120	.049	-.049	-.0000	-.032	.20
	.30	-.014	.143	.042	-.069	-.0001	-.046	.30
	.40	-.040	.204	.048	-.096	-.0001	-.061	.40
30	-.40	-.053	.267	.064	.104	.0004	.049	-.40
	-.30	-.016	.217	.030	.107	.0006	.051	-.30
	-.20	-.003	.190	.038	.097	.0004	.041	-.20
	-.10	-.001	.184	.053	.091	.0005	.031	-.10
	-.05	-.002	.178	.059	.078	.0005	.032	-.05
	0.00	.001	.174	.060	.069	.0003	.034	0.00
	0.00	-.000	.171	.059	.064	.0004	.031	0.00
	.05	-.004	.164	.063	.051	.0004	.020	.05
	.10	-.005	.150	.070	.013	.0003	-.001	.10
	.20	-.005	.165	.054	-.063	-.0001	-.037	.20
	.30	-.018	.200	.034	-.097	-.0002	-.051	.30
	.40	-.057	.266	.041	-.127	-.0004	-.069	.40
35	-.40	-.062	.358	.169	.000	.0028	-.009	-.40
	-.30	-.028	.237	.061	.132	.0023	.079	-.30
	-.20	-.018	.227	.061	.127	.0016	.062	-.20
	-.10	-.018	.227	.076	.120	.0012	.045	-.10
	-.05	-.020	.229	.084	.113	.0010	.038	-.05
	0.00	-.016	.227	.089	.106	.0010	.031	0.00
	0.00	-.015	.228	.091	.111	.0010	.032	0.00
	.05	-.020	.236	.089	.102	.0009	.022	.05
	.10	-.018	.237	.092	.094	.0010	.016	.10
	.20	-.019	.211	.094	.034	.0013	.005	.20
	.30	-.026	.220	.082	-.026	.0017	-.044	.30
	.40	-.061	.333	.175	.043	.0028	-.007	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.073	.413	.253	.029	.0032	.018	-.40
	-.30	-.031	.292	.107	.042	.0023	.037	-.30
	-.20	-.016	.291	.081	.092	.0020	.123	-.20
	-.10	-.016	.294	.094	.079	.0015	.104	-.10
	-.05	-.017	.301	.102	.072	.0013	.091	-.05
	0.00	-.013	.308	.115	.064	.0012	.084	0.00
	0.00	-.014	.303	.111	.067	.0012	.082	0.00
	.05	-.017	.311	.121	.059	.0013	.072	.05
	.10	-.016	.318	.131	.054	.0014	.062	.10
	.20	-.019	.329	.159	.052	.0016	.037	.20
	.30	-.033	.368	.187	.030	.0023	.016	.30
	.40	-.076	.441	.223	-.029	.0031	-.012	.40
45	-.40	-.073	.436	.209	.079	.0036	.066	-.40
	-.30	-.034	.415	.228	.004	.0024	.008	-.30
	-.20	-.021	.349	.095	.117	.0021	.135	-.20
	-.10	-.021	.354	.114	.100	.0016	.118	-.10
	-.05	-.022	.360	.122	.085	.0014	.105	-.05
	0.00	-.020	.366	.136	.068	.0015	.096	0.00
	0.00	-.019	.368	.135	.071	.0014	.094	0.00
	.05	-.022	.374	.142	.055	.0014	.082	.05
	.10	-.022	.381	.154	.043	.0014	.065	.10
	.20	-.024	.399	.183	.009	.0017	.032	.20
	.30	-.036	.400	.212	-.013	.0023	-.012	.30
	.40	-.074	.425	.205	-.066	.0029	-.053	.40
50	-.40	-.086	.436	.132	.163	.0037	.116	-.40
	-.30	-.042	.443	.168	.086	.0026	.035	-.30
	-.20	-.025	.389	.117	.105	.0019	.068	-.20
	-.10	-.024	.397	.121	.140	.0017	.088	-.10
	-.05	-.024	.401	.135	.120	.0015	.071	-.05
	0.00	-.020	.401	.151	.093	.0012	.055	0.00
	0.00	-.020	.398	.151	.093	.0013	.056	0.00
	.05	-.025	.400	.163	.059	.0014	.043	.05
	.10	-.024	.397	.172	.033	.0014	.034	.10
	.20	-.027	.402	.185	-.014	.0018	.007	.20
	.30	-.042	.422	.171	-.072	.0021	-.041	.30
	.40	-.086	.430	.120	-.148	.0022	-.124	.40
55	-.40	-.080	.447	.102	.182	.0040	.143	-.40
	-.30	-.043	.432	.137	.150	.0027	.091	-.30
	-.20	-.031	.423	.123	.122	.0019	.081	-.20
	-.10	-.032	.421	.135	.106	.0015	.064	-.10
	-.05	-.032	.420	.146	.084	.0012	.053	-.05
	0.00	-.026	.421	.157	.061	.0011	.039	0.00
	0.00	-.026	.415	.156	.058	.0011	.040	0.00
	.05	-.031	.420	.166	.027	.0011	.028	.05
	.10	-.030	.426	.172	-.007	.0012	.013	.10
	.20	-.029	.430	.166	-.062	.0014	-.030	.20
	.30	-.039	.429	.128	-.141	.0017	-.100	.30
	.40	-.074	.418	.079	-.162	.0022	-.147	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A3

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
60	-.40	-.087	.490	.094	.119	.0037	.124	-.40
	-.30	-.045	.461	.140	.092	.0024	.063	-.30
	-.20	-.027	.456	.164	.061	.0016	.028	-.20
	-.10	-.022	.441	.154	.061	.0011	.011	-.10
	-.05	-.022	.442	.152	.057	.0008	-.002	-.05
	0.00	-.019	.436	.161	.033	.0008	-.011	0.00
	0.00	-.019	.440	.154	.035	.0008	-.015	0.00
	.05	-.024	.435	.165	-.006	.0008	-.025	.05
	.10	-.024	.430	.162	-.038	.0008	-.038	.10
	.20	-.029	.428	.147	-.100	.0011	-.077	.20
	.30	-.044	.437	.114	-.118	.0015	-.109	.30
	.40	-.079	.476	.058	-.107	.0022	-.121	.40
65	-.40	-.073	.532	.100	.112	.0034	.129	-.40
	-.30	-.045	.498	.143	.101	.0023	.084	-.30
	-.20	-.033	.460	.157	.075	.0015	.045	-.20
	-.10	-.032	.454	.168	.034	.0010	-.002	-.10
	-.05	-.034	.451	.171	.016	.0007	-.022	-.05
	0.00	-.026	.444	.166	.002	.0006	-.037	0.00
	0.00	-.024	.445	.165	.001	.0006	-.035	0.00
	.05	-.033	.443	.167	-.011	.0006	-.036	.05
	.10	-.031	.442	.160	-.046	.0007	-.056	.10
	.20	-.033	.452	.151	-.070	.0010	-.067	.20
	.30	-.040	.474	.115	-.098	.0015	-.097	.30
	.40	-.062	.508	.050	-.078	.0022	-.112	.40
70	-.40	-.077	.561	.028	.084	.0027	.110	-.40
	-.30	-.047	.516	.117	.104	.0020	.095	-.30
	-.20	-.023	.490	.155	.066	.0014	.054	-.20
	-.10	-.015	.472	.163	.032	.0009	.022	-.10
	-.05	-.022	.462	.165	.021	.0007	.007	-.05
	0.00	-.020	.464	.167	.012	.0007	-.011	0.00
	0.00	-.019	.462	.166	.007	.0007	-.011	0.00
	.05	-.026	.457	.164	-.006	.0006	-.023	.05
	.10	-.019	.457	.158	-.027	.0006	-.039	.10
	.20	-.025	.458	.140	-.052	.0007	-.068	.20
	.30	-.038	.464	.071	-.057	.0011	-.088	.30
	.40	-.071	.545	.028	-.048	.0015	-.109	.40
75	-.40	-.070	.575	.028	.085	.0022	.111	-.40
	-.30	-.032	.517	.056	.063	.0016	.088	-.30
	-.20	-.013	.494	.123	.049	.0011	.064	-.20
	-.10	-.016	.479	.149	.017	.0008	.029	-.10
	-.05	-.016	.471	.151	.001	.0007	.012	-.05
	0.00	-.009	.484	.142	-.007	.0007	-.003	0.00
	0.00	-.009	.472	.140	-.013	.0007	-.002	0.00
	.05	-.017	.464	.150	-.018	.0005	-.017	.05
	.10	-.020	.461	.154	-.035	.0006	-.033	.10
	.20	-.021	.466	.128	-.061	.0007	-.064	.20
	.30	-.032	.489	.040	-.054	.0009	-.080	.30
	.40	-.075	.552	.031	-.050	.0013	-.105	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.069	.581	.017	.074	.0018	.109	-.40
	-.30	-.024	.514	.036	.043	.0013	.080	-.30
	-.20	-.009	.516	.091	.025	.0011	.064	-.20
	-.10	-.005	.510	.121	.009	.0009	.034	-.10
	-.05	-.004	.501	.130	-.001	.0007	.015	-.05
	0.00	-.003	.493	.144	-.010	.0007	-.004	0.00
	0.00	-.002	.496	.133	-.004	.0008	-.002	0.00
	.05	-.006	.508	.138	-.018	.0007	-.019	.05
	.10	-.007	.506	.137	-.033	.0007	-.038	.10
	.20	-.016	.515	.118	-.056	.0006	-.067	.20
	.30	-.023	.494	.042	-.051	.0005	-.076	.30
	.40	-.062	.551	.015	-.034	.0008	-.100	.40
85	-.40	-.046	.595	.045	.058	.0014	.111	-.40
	-.30	-.011	.526	.047	.024	.0011	.080	-.30
	-.20	.002	.483	.047	.005	.0009	.060	-.20
	-.10	.006	.469	.057	-.001	.0009	.031	-.10
	-.05	.007	.449	.044	-.005	.0007	.014	-.05
	0.00	.007	.446	.054	-.006	.0007	-.002	0.00
	0.00	.008	.455	.053	-.008	.0007	-.003	0.00
	.05	.008	.456	.048	-.008	.0007	-.017	.05
	.10	.008	.462	.048	-.009	.0006	-.034	.10
	.20	.002	.488	.038	-.016	.0004	-.063	.20
	.30	-.015	.516	.046	-.040	.0006	-.076	.30
	.40	-.046	.547	.043	-.044	.0007	-.096	.40
90	-.40	-.018	.601	.060	.039	.0011	.111	-.40
	-.30	-.001	.523	.055	.013	.0009	.079	-.30
	-.20	.006	.469	.035	-.006	.0008	.057	-.20
	-.10	.006	.440	.009	-.009	.0007	.028	-.10
	-.05	.006	.441	.004	-.009	.0007	.013	-.05
	0.00	.008	.444	-.000	-.004	.0007	-.003	0.00
	0.00	.007	.448	.003	-.004	.0006	-.003	0.00
	.05	.006	.438	.005	-.000	.0004	-.016	.05
	.10	.007	.436	.010	.004	.0004	-.031	.10
	.20	.005	.454	.024	.003	.0002	-.058	.20
	.30	.001	.520	.047	-.014	.0002	-.080	.30
	.40	-.020	.564	.058	-.041	.0003	-.097	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.005	.076	.034	-.022	.0006	-.006	-.40
	-.30	-.004	.022	.004	-.010	.0005	-.003	-.30
	-.20	-.003	.008	-.003	-.003	.0006	-.001	-.20
	-.10	-.003	.011	-.000	.001	.0007	.000	-.10
	-.05	-.003	.014	.001	.002	.0006	.001	-.05
	0.00	-.004	.008	-.002	.001	.0006	.000	0.00
	0.00	-.004	.008	-.002	.001	.0006	.000	0.00
	.05	-.005	.014	.002	-.001	.0007	.000	.05
	.10	-.004	.010	.001	-.001	.0006	-.000	.10
	.20	-.004	.008	-.002	-.004	.0005	-.001	.20
	.30	-.004	.021	.005	-.011	.0006	-.003	.30
	.40	-.003	.076	.035	-.022	.0006	-.006	.40

5	-.40	-.007	.084	.050	-.029	.0002	-.002	-.40
	-.30	-.003	.028	.017	-.017	.0002	.000	-.30
	-.20	-.002	.013	.008	-.008	.0003	.001	-.20
	-.10	-.002	.016	.009	-.001	.0003	.002	-.10
	-.05	-.003	.019	.011	.002	.0004	.002	-.05
	0.00	-.002	.010	.007	.000	.0003	.001	0.00
	0.00	-.002	.010	.007	.000	.0004	.001	0.00
	.05	-.003	.016	.011	.001	.0004	.001	.05
	.10	-.002	.013	.010	.000	.0003	-.000	.10
	.20	-.002	.012	.010	-.002	.0003	-.002	.20
	.30	-.004	.031	.020	-.007	.0003	-.005	.30
	.40	-.009	.091	.055	-.016	.0002	-.009	.40

10	-.40	-.013	.112	.069	-.014	.0001	.001	-.40
	-.30	-.001	.049	.029	-.006	.0003	.000	-.30
	-.20	.001	.029	.018	-.002	.0003	.001	-.20
	-.10	-.000	.028	.019	.001	.0004	.002	-.10
	-.05	-.001	.030	.020	.001	.0004	.002	-.05
	0.00	.002	.022	.017	-.002	.0004	.001	0.00
	0.00	.002	.023	.017	-.003	.0004	.001	0.00
	.05	-.001	.030	.022	.001	.0004	.002	.05
	.10	-.000	.027	.020	.001	.0004	.001	.10
	.20	.001	.028	.021	-.003	.0004	-.001	.20
	.30	-.003	.049	.030	-.011	.0002	-.005	.30
	.40	-.015	.112	.071	-.026	.0001	-.011	.40

15	-.40	-.023	.153	.087	.023	.0002	.017	-.40
	-.30	-.003	.086	.041	.023	.0003	.008	-.30
	-.20	.002	.061	.029	.020	.0004	.002	-.20
	-.10	.002	.055	.030	.012	.0005	.001	-.10
	-.05	.001	.056	.031	.008	.0005	.001	-.05
	0.00	.003	.049	.028	.002	.0005	.001	0.00
	0.00	.003	.049	.028	.002	.0005	.001	0.00
	.05	-.000	.054	.032	-.002	.0004	.000	.05
	.10	.001	.053	.031	-.007	.0004	-.001	.10
	.20	.001	.059	.031	-.020	.0002	-.003	.20
	.30	-.005	.086	.044	-.037	.0003	-.009	.30
	.40	-.025	.154	.089	-.057	.0001	-.022	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.030	.198	.096	.044	.0001	.043	-.40
	-.30	-.006	.129	.060	.044	.0003	.036	-.30
	-.20	.003	.105	.043	.047	.0005	.022	-.20
	-.10	.002	.098	.043	.039	.0006	.009	-.10
	-.05	-.001	.095	.047	.028	.0007	.004	-.05
	0.00	.002	.087	.044	.007	.0006	.001	0.00
	0.00	.003	.089	.045	.006	.0006	.001	0.00
	.05	-.001	.097	.047	-.010	.0006	.000	.05
	.10	.001	.097	.043	-.024	.0006	-.004	.10
	.20	.001	.107	.045	-.046	.0004	-.018	.20
	.30	-.006	.134	.056	-.062	.0003	-.032	.30
	.40	-.031	.204	.091	-.090	-.0001	-.046	.40
25	-.40	-.044	.245	.111	.075	.0003	.051	-.40
	-.30	-.009	.175	.067	.064	.0006	.050	-.30
	-.20	.002	.146	.053	.056	.0007	.040	-.20
	-.10	.002	.138	.052	.052	.0007	.023	-.10
	-.05	.001	.131	.058	.041	.0007	.012	-.05
	0.00	.001	.121	.057	.007	.0006	.002	0.00
	0.00	.001	.123	.057	.014	.0006	.003	0.00
	.05	.002	.134	.055	-.023	.0007	-.005	.05
	.10	.002	.138	.050	-.039	.0006	-.016	.10
	.20	.002	.148	.048	-.058	.0004	-.034	.20
	.30	-.007	.180	.048	-.076	.0001	-.041	.30
	.40	-.043	.248	.079	-.090	-.0001	-.046	.40
30	-.40	-.050	.361	.207	-.018	.0001	-.006	-.40
	-.30	-.011	.257	.109	.094	.0002	.054	-.30
	-.20	.000	.189	.071	.069	.0006	.051	-.20
	-.10	-.000	.185	.066	.064	.0008	.033	-.10
	-.05	-.001	.181	.071	.049	.0008	.023	-.05
	0.00	-.000	.171	.069	.019	.0007	.008	0.00
	0.00	-.000	.167	.068	.021	.0007	.008	0.00
	.05	-.002	.185	.064	-.016	.0007	-.009	.05
	.10	.000	.191	.060	-.036	.0006	-.022	.10
	.20	.003	.208	.048	-.035	.0004	-.021	.20
	.30	-.009	.238	.039	.019	.0001	.014	.30
	.40	-.050	.336	.156	-.014	.0002	-.002	.40
35	-.40	-.056	.419	.235	.027	.0004	.006	-.40
	-.30	-.014	.334	.200	.010	.0003	.007	-.30
	-.20	-.001	.291	.134	.097	.0005	.047	-.20
	-.10	-.001	.241	.085	.043	.0007	.018	-.10
	-.05	-.002	.231	.081	.034	.0007	.013	-.05
	0.00	.005	.218	.073	.027	.0008	.012	0.00
	0.00	.005	.220	.075	.035	.0007	.015	0.00
	.05	-.002	.224	.079	.031	.0007	.014	.05
	.10	-.000	.230	.078	.041	.0007	.019	.10
	.20	-.001	.257	.060	.051	.0005	.025	.20
	.30	-.012	.295	.120	.002	.0005	.014	.30
	.40	-.058	.423	.264	-.049	.0002	-.013	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.051	.432	.215	.057	.0008	.055	-.40
	-.30	-.015	.383	.196	.014	.0006	-.007	-.30
	-.20	-.006	.357	.172	-.027	.0006	-.024	-.20
	-.10	-.008	.334	.150	-.037	.0007	-.024	-.10
	-.05	-.009	.326	.125	-.016	.0007	-.012	-.05
	0.00	-.005	.299	.094	.051	.0008	.024	0.00
	0.00	-.005	.290	.095	.040	.0009	.019	0.00
	.05	-.009	.297	.104	.074	.0010	.052	.05
	.10	-.007	.313	.119	.061	.0010	.054	.10
	.20	-.007	.344	.158	.022	.0008	.038	.20
	.30	-.018	.394	.226	-.017	.0005	-.013	.30
	.40	-.053	.442	.224	-.104	-.0002	-.077	.40
45	-.40	-.071	.467	.179	.168	.0009	.128	-.40
	-.30	-.022	.417	.182	.055	.0010	.038	-.30
	-.20	-.007	.401	.182	-.013	.0008	-.010	-.20
	-.10	-.007	.394	.171	-.046	.0009	-.046	-.10
	-.05	-.007	.390	.162	-.048	.0008	-.048	-.05
	0.00	-.001	.358	.129	.056	.0009	.042	0.00
	0.00	-.001	.359	.133	.074	.0008	.054	0.00
	.05	-.006	.375	.156	.087	.0011	.064	.05
	.10	-.005	.389	.184	.068	.0011	.044	.10
	.20	-.010	.419	.211	.001	.0008	-.002	.20
	.30	-.024	.413	.203	-.089	.0003	-.060	.30
	.40	-.073	.468	.161	-.173	-.0005	-.120	.40
50	-.40	-.061	.462	.161	.175	.0009	.160	-.40
	-.30	-.025	.459	.182	.137	.0010	.100	-.30
	-.20	-.012	.434	.183	.042	.0010	.019	-.20
	-.10	-.014	.439	.187	-.027	.0010	-.032	-.10
	-.05	-.017	.437	.182	-.060	.0010	-.051	-.05
	0.00	-.010	.424	.169	.091	.0008	.065	0.00
	0.00	-.010	.422	.168	.097	.0008	.068	0.00
	.05	-.018	.440	.194	.061	.0012	.050	.05
	.10	-.015	.449	.209	.022	.0011	.022	.10
	.20	-.014	.425	.202	-.060	.0007	-.037	.20
	.30	-.022	.452	.177	-.142	.0001	-.103	.30
	.40	-.059	.457	.142	-.199	-.0007	-.163	.40
55	-.40	-.068	.481	.146	.085	.0010	.116	-.40
	-.30	-.033	.443	.163	.147	.0011	.135	-.30
	-.20	-.018	.465	.204	.112	.0011	.089	-.20
	-.10	-.017	.480	.216	.064	.0011	.034	-.10
	-.05	-.019	.463	.206	.001	.0010	-.018	-.05
	0.00	-.014	.462	.207	.032	.0011	.032	0.00
	0.00	-.015	.461	.206	.029	.0010	.032	0.00
	.05	-.020	.461	.216	-.010	.0009	-.001	.05
	.10	-.018	.480	.221	-.047	.0008	-.034	.10
	.20	-.019	.471	.209	-.115	.0005	-.098	.20
	.30	-.033	.442	.160	-.155	-.0000	-.140	.30
	.40	-.068	.491	.152	-.139	-.0003	-.143	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.056	.503	.099	.078	.0010	.128	-.40
	-.30	-.032	.477	.175	.096	.0010	.099	-.30
	-.20	-.023	.471	.196	.052	.0011	.048	-.20
	-.10	-.027	.474	.219	.016	.0012	.011	-.10
	-.05	-.029	.488	.236	-.004	.0013	-.008	-.05
	0.00	-.019	.486	.236	-.022	.0012	-.022	0.00
	0.00	-.019	.484	.232	-.025	.0012	-.023	0.00
	.05	-.027	.489	.238	-.051	.0011	-.047	.05
	.10	-.023	.472	.221	-.067	.0010	-.065	.10
	.20	-.022	.487	.223	-.084	.0008	-.088	.20
	.30	-.029	.466	.169	-.089	.0002	-.100	.30
	.40	-.055	.518	.088	-.102	-.0002	-.131	.40
65	-.40	-.059	.566	.067	.072	.0011	.131	-.40
	-.30	-.032	.499	.139	.078	.0012	.100	-.30
	-.20	-.021	.488	.176	.074	.0013	.073	-.20
	-.10	-.024	.489	.207	.038	.0012	.029	-.10
	-.05	-.026	.499	.221	.021	.0012	.010	-.05
	0.00	-.015	.486	.211	.025	.0012	.016	0.00
	0.00	-.018	.483	.222	.015	.0012	.006	0.00
	.05	-.027	.485	.214	.002	.0012	-.010	.05
	.10	-.025	.483	.207	-.021	.0010	-.033	.10
	.20	-.024	.482	.182	-.052	.0007	-.068	.20
	.30	-.031	.511	.133	-.072	.0005	-.097	.30
	.40	-.058	.579	.077	-.078	.0000	-.130	.40
70	-.40	-.063	.618	.060	.052	.0014	.122	-.40
	-.30	-.031	.553	.107	.072	.0014	.104	-.30
	-.20	-.014	.506	.147	.059	.0014	.070	-.20
	-.10	-.017	.497	.177	.040	.0014	.037	-.10
	-.05	-.019	.489	.181	.033	.0012	.024	-.05
	0.00	-.013	.497	.187	.018	.0013	.010	0.00
	0.00	-.014	.484	.190	.018	.0013	.012	0.00
	.05	-.021	.489	.178	.006	.0012	-.006	.05
	.10	-.019	.507	.176	-.009	.0012	-.024	.10
	.20	-.017	.521	.161	-.037	.0010	-.062	.20
	.30	-.032	.550	.126	-.059	.0007	-.101	.30
	.40	-.059	.618	.054	-.073	.0004	-.130	.40
75	-.40	-.062	.630	.049	.047	.0012	.120	-.40
	-.30	-.027	.570	.083	.051	.0013	.095	-.30
	-.20	-.009	.536	.133	.058	.0015	.076	-.20
	-.10	-.007	.522	.152	.038	.0014	.039	-.10
	-.05	-.010	.511	.160	.025	.0013	.019	-.05
	0.00	-.007	.520	.169	.011	.0013	.004	0.00
	0.00	-.007	.525	.165	.011	.0013	.004	0.00
	.05	-.010	.515	.172	.001	.0013	-.012	.05
	.10	-.008	.530	.172	-.012	.0012	-.032	.10
	.20	-.010	.551	.157	-.034	.0010	-.068	.20
	.30	-.024	.569	.072	-.051	.0008	-.100	.30
	.40	-.060	.627	.044	-.067	.0004	-.129	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.054	.628	.052	.048	.0015	.124	-.40
	-.30	-.018	.576	.064	.047	.0015	.091	-.30
	-.20	-.004	.539	.117	.039	.0016	.070	-.20
	-.10	-.002	.536	.143	.031	.0015	.039	-.10
	-.05	-.000	.526	.140	.020	.0015	.019	-.05
	0.00	.001	.529	.161	.011	.0013	.003	0.00
	0.00	.002	.513	.144	.009	.0014	.001	0.00
	.05	-.001	.534	.161	.002	.0014	-.015	.05
	.10	-.002	.544	.168	-.008	.0013	-.035	.10
	.20	-.002	.549	.113	-.025	.0012	-.068	.20
	.30	-.017	.574	.061	-.039	.0011	-.095	.30
	.40	-.056	.649	.046	-.058	.0008	-.125	.40
85	-.40	-.038	.648	.062	.056	.0018	.126	-.40
	-.30	-.008	.588	.085	.035	.0015	.089	-.30
	-.20	.008	.518	.086	.023	.0015	.066	-.20
	-.10	.006	.497	.065	.012	.0014	.034	-.10
	-.05	.003	.492	.069	.010	.0014	.015	-.05
	0.00	.010	.497	.066	.006	.0014	-.001	0.00
	0.00	.009	.481	.065	.008	.0014	-.000	0.00
	.05	.003	.496	.066	.005	.0015	-.017	.05
	.10	.006	.505	.069	.003	.0014	-.034	.10
	.20	.006	.529	.091	-.010	.0012	-.066	.20
	.30	-.001	.578	.074	-.029	.0011	-.091	.30
	.40	-.036	.664	.064	-.051	.0009	-.127	.40
90	-.40	-.021	.671	.107	.043	.0018	.125	-.40
	-.30	.006	.580	.087	.025	.0016	.089	-.30
	-.20	.013	.523	.052	.008	.0016	.063	-.20
	-.10	.008	.499	.032	.007	.0015	.034	-.10
	-.05	.006	.505	.033	.009	.0015	.015	-.05
	0.00	.008	.505	.030	.009	.0014	-.000	0.00
	0.00	.008	.487	.024	.008	.0014	-.000	0.00
	.05	.004	.502	.036	.008	.0015	-.016	.05
	.10	.006	.505	.037	.010	.0013	-.034	.10
	.20	.011	.519	.050	.007	.0012	-.066	.20
	.30	.007	.572	.088	-.015	.0012	-.091	.30
	.40	-.010	.648	.094	-.043	.0011	-.126	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB0.8A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.023	.096	-.012	.002	-.0005	-.005	-.40
	-.30	-.022	.050	-.015	.006	-.0005	-.004	-.30
	-.20	-.022	.037	-.012	.010	-.0005	-.002	-.20
	-.10	-.021	.039	-.009	.011	-.0005	-.002	-.10
	-.05	-.021	.040	-.008	.013	-.0005	-.001	-.05
	0.00	-.022	.035	-.008	.012	-.0005	-.002	0.00
	0.00	-.024	.036	-.008	.011	-.0005	-.002	0.00
	.05	-.022	.038	-.007	.012	-.0004	-.002	.05
	.10	-.022	.037	-.008	.013	-.0005	-.002	.10
	.20	-.022	.037	-.011	.009	-.0004	-.002	.20
	.30	-.022	.051	-.014	.003	-.0005	-.003	.30
	.40	-.023	.099	-.011	-.007	-.0005	-.005	.40

5	-.40	-.029	.100	.015	-.010	-.0006	-.001	-.40
	-.30	-.023	.049	.003	-.001	-.0005	-.000	-.30
	-.20	-.021	.033	-.003	.006	-.0005	-.000	-.20
	-.10	-.021	.032	-.005	.011	-.0005	-.001	-.10
	-.05	-.021	.033	-.005	.014	-.0005	-.001	-.05
	0.00	-.020	.028	-.006	.009	-.0006	-.002	0.00
	0.00	-.020	.028	-.006	.011	-.0005	-.001	0.00
	.05	-.020	.035	-.005	.011	-.0005	-.002	.05
	.10	-.021	.032	-.004	.013	-.0005	-.002	.10
	.20	-.021	.033	-.002	.012	-.0006	-.004	.20
	.30	-.022	.049	.004	.010	-.0006	-.006	.30
	.40	-.027	.098	.016	.005	-.0005	-.009	.40

10	-.40	-.033	.110	.033	-.006	-.0007	.001	-.40
	-.30	-.023	.056	.012	-.001	-.0006	.001	-.30
	-.20	-.020	.036	.003	.003	-.0007	.001	-.20
	-.10	-.019	.032	-.001	.007	-.0007	.000	-.10
	-.05	-.019	.032	-.002	.010	-.0007	-.000	-.05
	0.00	-.019	.025	-.003	.011	-.0007	-.001	0.00
	0.00	-.019	.025	-.003	.012	-.0007	-.001	0.00
	.05	-.020	.031	-.002	.010	-.0007	-.002	.05
	.10	-.019	.031	-.001	.011	-.0007	-.002	.10
	.20	-.020	.035	.004	.012	-.0007	-.005	.20
	.30	-.023	.058	.012	.010	-.0007	-.008	.30
	.40	-.034	.113	.033	.004	-.0006	-.011	.40

15	-.40	-.037	.129	.028	-.005	-.0004	.009	-.40
	-.30	-.023	.073	.008	.007	-.0006	.005	-.30
	-.20	-.019	.055	-.001	.012	-.0006	.002	-.20
	-.10	-.018	.050	-.004	.015	-.0007	.000	-.10
	-.05	-.019	.050	-.005	.015	-.0007	-.000	-.05
	0.00	-.019	.045	-.005	.010	-.0007	-.001	0.00
	0.00	-.018	.044	-.006	.009	-.0007	-.000	0.00
	.05	-.020	.052	-.004	.010	-.0007	-.001	.05
	.10	-.019	.051	-.004	.010	-.0007	-.002	.10
	.20	-.020	.055	.001	.016	-.0007	-.005	.20
	.30	-.024	.074	.009	.011	-.0005	-.011	.30
	.40	-.037	.125	.031	.016	-.0004	-.018	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB0.8A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.046	.166	.028	.004	-.0007	.030	-.40
	-.30	-.027	.097	.008	.013	-.0006	.022	-.30
	-.20	-.020	.076	-.005	.015	-.0006	.015	-.20
	-.10	-.020	.068	-.007	.016	-.0007	.007	-.10
	-.05	-.020	.067	-.007	.017	-.0008	.003	-.05
	0.00	-.017	.061	-.007	.014	-.0007	-.001	0.00
	0.00	-.017	.060	-.007	.014	-.0007	-.001	0.00
	.05	-.020	.066	-.008	.010	-.0008	-.003	.05
	.10	-.019	.067	-.008	.005	-.0008	-.006	.10
	.20	-.020	.076	-.002	-.002	-.0006	-.014	.20
	.30	-.026	.096	.011	-.002	-.0006	-.028	.30
	.40	-.045	.151	.035	-.038	-.0005	-.035	.40
25	-.40	-.053	.194	.014	.006	-.0007	.047	-.40
	-.30	-.028	.119	.002	.022	-.0003	.037	-.30
	-.20	-.020	.102	-.012	.021	-.0004	.028	-.20
	-.10	-.020	.095	-.015	.019	-.0005	.016	-.10
	-.05	-.022	.092	-.012	.021	-.0006	.007	-.05
	0.00	-.021	.086	-.011	.012	-.0007	-.002	0.00
	0.00	-.021	.085	-.011	.012	-.0007	-.002	0.00
	.05	-.022	.093	-.014	.003	-.0007	-.007	.05
	.10	-.021	.096	-.015	.002	-.0007	-.018	.10
	.20	-.022	.100	-.010	-.001	-.0006	-.033	.20
	.30	-.029	.117	.002	-.009	-.0004	-.045	.30
	.40	-.048	.164	.022	-.063	-.0002	-.052	.40
30	-.40	-.062	.234	-.009	.014	-.0011	.063	-.40
	-.30	-.029	.148	-.009	.030	-.0004	.049	-.30
	-.20	-.020	.131	-.019	.035	-.0003	.037	-.20
	-.10	-.019	.123	-.020	.030	-.0005	.021	-.10
	-.05	-.021	.118	-.016	.028	-.0005	.009	-.05
	0.00	-.019	.110	-.015	.013	-.0007	-.002	0.00
	0.00	-.021	.111	-.015	.013	-.0007	-.002	0.00
	.05	-.022	.119	-.018	-.005	-.0007	-.008	.05
	.10	-.021	.124	-.022	-.004	-.0006	-.022	.10
	.20	-.021	.130	-.020	-.010	-.0004	-.039	.20
	.30	-.028	.149	-.010	-.020	-.0002	-.055	.30
	.40	-.051	.196	.004	-.090	-.0000	-.064	.40
35	-.40	-.066	.270	-.043	.064	-.0006	.048	-.40
	-.30	-.030	.184	-.030	.072	-.0001	.036	-.30
	-.20	-.019	.157	-.032	.079	-.0002	.026	-.20
	-.10	-.016	.146	-.028	.075	-.0004	.016	-.10
	-.05	-.020	.134	-.017	.061	-.0006	.010	-.05
	0.00	-.018	.135	-.022	.051	-.0006	.005	0.00
	0.00	-.019	.135	-.022	.050	-.0007	.005	0.00
	.05	-.021	.144	-.025	.015	-.0007	-.003	.05
	.10	-.020	.149	-.028	-.016	-.0006	-.018	.10
	.20	-.021	.166	-.036	-.035	-.0005	-.032	.20
	.30	-.032	.197	-.045	-.054	-.0003	-.047	.30
	.40	-.061	.264	-.053	-.133	-.0002	-.050	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB0.8A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.071	.308	-.068	.084	-.0007	.066	-.40
	-.30	-.036	.221	-.053	.086	-.0001	.047	-.30
	-.20	-.024	.190	-.041	.095	-.0003	.033	-.20
	-.10	-.022	.180	-.034	.092	-.0005	.022	-.10
	-.05	-.025	.170	-.024	.086	-.0006	.014	-.05
	0.00	-.020	.176	-.031	.076	-.0007	.009	0.00
	0.00	-.021	.174	-.032	.071	-.0007	.008	0.00
	.05	-.026	.182	-.031	.052	-.0006	.002	.05
	.10	-.025	.189	-.034	-.046	-.0006	-.015	.10
	.20	-.025	.205	-.049	-.059	-.0005	-.032	.20
	.30	-.034	.237	-.064	-.078	-.0004	-.048	.30
	.40	-.062	.282	-.058	-.162	-.0005	-.058	.40
45	-.40	-.078	.318	-.059	.094	-.0009	.086	-.40
	-.30	-.038	.242	-.051	.098	-.0002	.071	-.30
	-.20	-.023	.208	-.041	.096	-.0003	.052	-.20
	-.10	-.019	.198	-.032	.087	-.0005	.037	-.10
	-.05	-.019	.203	-.033	.083	-.0006	.029	-.05
	0.00	-.016	.218	-.039	.080	-.0005	.021	0.00
	0.00	-.018	.220	-.038	.080	-.0005	.022	0.00
	.05	-.020	.218	-.037	.080	-.0004	.009	.05
	.10	-.021	.220	-.039	-.044	-.0004	-.025	.10
	.20	-.024	.233	-.049	-.057	-.0004	-.046	.20
	.30	-.038	.254	-.048	-.098	-.0004	-.064	.30
	.40	-.072	.279	-.044	-.194	-.0004	-.080	.40
50	-.40	-.086	.330	-.069	.110	-.0011	.087	-.40
	-.30	-.047	.254	-.046	.130	-.0003	.072	-.30
	-.20	-.030	.228	-.038	.124	-.0003	.058	-.20
	-.10	-.025	.218	-.030	.107	-.0004	.042	-.10
	-.05	-.024	.215	-.030	.095	-.0005	.034	-.05
	0.00	-.022	.238	-.029	.075	-.0004	.027	0.00
	0.00	-.022	.240	-.027	.075	-.0004	.027	0.00
	.05	-.025	.239	-.026	.047	-.0003	.007	.05
	.10	-.026	.234	-.029	-.051	-.0003	-.033	.10
	.20	-.031	.243	-.037	-.072	-.0003	-.056	.20
	.30	-.047	.253	-.042	-.121	-.0002	-.075	.30
	.40	-.083	.305	-.054	-.201	-.0011	-.089	.40
55	-.40	-.087	.333	-.075	.078	-.0007	.081	-.40
	-.30	-.049	.271	-.052	.121	-.0005	.069	-.30
	-.20	-.030	.241	-.039	.131	-.0004	.056	-.20
	-.10	-.024	.236	-.029	.100	-.0005	.035	-.10
	-.05	-.023	.229	-.030	.094	-.0005	.027	-.05
	0.00	-.022	.244	-.027	.077	-.0004	.022	0.00
	0.00	-.022	.243	-.028	.078	-.0004	.022	0.00
	.05	-.027	.243	-.025	-.007	-.0003	-.015	.05
	.10	-.028	.242	-.027	-.054	-.0003	-.042	.10
	.20	-.032	.250	-.035	-.081	-.0002	-.056	.20
	.30	-.047	.268	-.047	-.116	-.0001	-.075	.30
	.40	-.083	.325	-.059	-.187	-.0012	-.093	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB0.8A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.089	.374	-.079	.037	-.0007	.075	-.40
	-.30	-.051	.301	-.053	.082	-.0005	.062	-.30
	-.20	-.034	.266	-.037	.097	-.0005	.049	-.20
	-.10	-.030	.254	-.029	.071	-.0005	.026	-.10
	-.05	-.029	.252	-.027	.067	-.0005	.021	-.05
	0.00	-.027	.254	-.029	.070	-.0004	.021	0.00
	0.00	-.030	.255	-.029	.066	-.0004	.020	0.00
	.05	-.034	.260	-.026	-.042	-.0003	-.034	.05
	.10	-.034	.261	-.027	-.041	-.0002	-.035	.10
	.20	-.038	.269	-.036	-.054	-.0002	-.049	.20
	.30	-.050	.289	-.049	-.100	-.0002	-.069	.30
	.40	-.081	.350	-.068	-.155	-.0018	-.084	.40
65	-.40	-.091	.373	-.085	.024	-.0002	.074	-.40
	-.30	-.052	.312	-.057	.051	-.0003	.055	-.30
	-.20	-.032	.281	-.041	.072	-.0005	.042	-.20
	-.10	-.024	.267	-.030	.069	-.0006	.024	-.10
	-.05	-.022	.262	-.028	.071	-.0006	.019	-.05
	0.00	-.019	.255	-.031	.061	-.0005	.016	0.00
	0.00	-.020	.254	-.031	.060	-.0005	.015	0.00
	.05	-.025	.265	-.028	-.022	-.0004	-.027	.05
	.10	-.026	.269	-.030	-.028	-.0003	-.032	.10
	.20	-.033	.283	-.042	-.034	-.0003	-.044	.20
	.30	-.051	.309	-.058	-.048	-.0003	-.062	.30
	.40	-.086	.359	-.077	-.093	-.0012	-.082	.40
70	-.40	-.085	.380	-.092	.024	-.0002	.078	-.40
	-.30	-.050	.320	-.062	.047	-.0001	.055	-.30
	-.20	-.033	.286	-.044	.062	-.0005	.039	-.20
	-.10	-.025	.276	-.036	.064	-.0006	.025	-.10
	-.05	-.023	.274	-.034	.059	-.0005	.017	-.05
	0.00	-.022	.266	-.032	.034	-.0005	.004	0.00
	0.00	-.023	.267	-.035	.045	-.0005	.010	0.00
	.05	-.025	.271	-.035	-.012	-.0005	-.023	.05
	.10	-.027	.273	-.037	-.015	-.0004	-.029	.10
	.20	-.034	.285	-.046	-.026	-.0004	-.043	.20
	.30	-.051	.308	-.061	-.032	-.0005	-.063	.30
	.40	-.085	.354	-.082	-.075	-.0007	-.082	.40
75	-.40	-.098	.362	-.108	-.009	.0002	.069	-.40
	-.30	-.056	.316	-.075	.032	-.0001	.052	-.30
	-.20	-.028	.293	-.055	.050	-.0004	.036	-.20
	-.10	-.011	.278	-.042	.054	-.0006	.022	-.10
	-.05	-.007	.275	-.042	.045	-.0007	.011	-.05
	0.00	-.004	.274	-.040	.025	-.0006	-.001	0.00
	0.00	-.012	.269	-.041	.018	-.0006	-.005	0.00
	.05	-.012	.274	-.043	.010	-.0006	-.013	.05
	.10	-.015	.276	-.045	-.001	-.0005	-.023	.10
	.20	-.032	.282	-.053	-.018	-.0005	-.042	.20
	.30	-.055	.310	-.078	-.023	-.0006	-.062	.30
	.40	-.088	.347	-.113	-.041	-.0008	-.082	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB0.8A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.066	.352	-.130	-.024	.0007	.064	-.40
	-.30	-.051	.314	-.082	.024	.0000	.050	-.30
	-.20	-.027	.290	-.056	.035	-.0005	.032	-.20
	-.10	-.012	.282	-.051	.035	-.0006	.016	-.10
	-.05	-.008	.278	-.052	.029	-.0007	.004	-.05
	0.00	-.005	.276	-.052	.022	-.0006	-.002	0.00
	0.00	-.003	.276	-.050	.024	-.0006	-.003	0.00
	.05	-.006	.276	-.052	.021	-.0007	-.011	.05
	.10	-.011	.279	-.054	.020	-.0006	-.019	.10
	.20	-.025	.284	-.061	-.001	-.0007	-.037	.20
	.30	-.047	.309	-.085	-.006	-.0008	-.059	.30
	.40	-.063	.344	-.123	.009	-.0011	-.074	.40
85	-.40	-.045	.343	-.120	-.031	.0005	.064	-.40
	-.30	-.038	.307	-.096	-.001	.0000	.044	-.30
	-.20	-.031	.283	-.064	.022	-.0004	.032	-.20
	-.10	-.018	.278	-.066	.022	-.0004	.015	-.10
	-.05	-.015	.279	-.068	.025	-.0005	.005	-.05
	0.00	-.013	.277	-.069	.021	-.0006	-.004	0.00
	0.00	-.010	.278	-.073	.021	-.0006	-.004	0.00
	.05	-.011	.278	-.069	.024	-.0007	-.012	.05
	.10	-.014	.279	-.068	.022	-.0006	-.022	.10
	.20	-.027	.284	-.069	.010	-.0008	-.038	.20
	.30	-.034	.306	-.100	.011	-.0011	-.056	.30
	.40	-.047	.346	-.119	.032	-.0014	-.072	.40
90	-.40	-.033	.348	-.129	-.039	.0005	.061	-.40
	-.30	-.027	.300	-.108	-.013	.0001	.044	-.30
	-.20	-.016	.277	-.094	.002	-.0001	.033	-.20
	-.10	-.011	.276	-.089	.010	-.0003	.017	-.10
	-.05	-.010	.277	-.090	.016	-.0003	.006	-.05
	0.00	-.008	.273	-.090	.020	-.0005	-.005	0.00
	0.00	-.005	.278	-.092	.020	-.0006	-.005	0.00
	.05	-.006	.277	-.092	.027	-.0006	-.015	.05
	.10	-.008	.274	-.091	.031	-.0006	-.025	.10
	.20	-.012	.270	-.096	.030	-.0009	-.043	.20
	.30	-.023	.299	-.111	.028	-.0011	-.051	.30
	.40	-.033	.339	-.126	.046	-.0014	-.067	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.002	.084	-.001	.009	-.0005	-.012	-.40
	-.30	.002	.036	-.008	.015	-.0005	-.008	-.30
	-.20	.002	.023	-.007	.020	-.0005	-.004	-.20
	-.10	.002	.025	-.003	.023	-.0005	-.003	-.10
	-.05	.002	.027	-.002	.024	-.0005	-.002	-.05
	0.00	.002	.020	-.003	.021	-.0005	-.002	0.00
	0.00	.002	.021	-.004	.020	-.0005	-.002	0.00
	.05	.002	.024	-.002	.018	-.0005	-.002	.05
	.10	.002	.023	-.003	.019	-.0005	-.003	.10
	.20	.001	.022	-.006	.015	-.0005	-.004	.20
	.30	.002	.037	-.007	.011	-.0005	-.007	.30
	.40	.001	.088	.001	.002	-.0006	-.012	.40

5	-.40	-.004	.089	.003	-.005	-.0004	-.008	-.40
	-.30	.002	.043	-.003	.006	-.0004	-.004	-.30
	-.20	.003	.030	-.002	.013	-.0005	-.002	-.20
	-.10	.003	.031	.001	.018	-.0005	-.001	-.10
	-.05	.003	.032	.002	.021	-.0005	-.002	-.05
	0.00	.003	.026	.001	.020	-.0005	-.002	0.00
	0.00	.003	.028	.001	.020	-.0005	-.002	0.00
	.05	.002	.033	.003	.020	-.0005	-.002	.05
	.10	.002	.031	.002	.021	-.0005	-.003	.10
	.20	.003	.029	.000	.020	-.0005	-.006	.20
	.30	.002	.041	-.001	.016	-.0006	-.010	.30
	.40	-.003	.088	.005	.008	-.0005	-.015	.40

10	-.40	-.008	.094	.018	-.003	-.0005	-.005	-.40
	-.30	.001	.046	.006	.005	-.0006	-.002	-.30
	-.20	.003	.032	.005	.010	-.0006	-.001	-.20
	-.10	.003	.033	.007	.015	-.0005	-.001	-.10
	-.05	.002	.034	.008	.018	-.0005	-.001	-.05
	0.00	.002	.028	.007	.018	-.0006	-.002	0.00
	0.00	.002	.029	.007	.018	-.0006	-.002	0.00
	.05	.002	.034	.009	.019	-.0006	-.002	.05
	.10	.002	.032	.008	.021	-.0006	-.003	.10
	.20	.002	.032	.008	.018	-.0007	-.007	.20
	.30	.001	.046	.007	.012	-.0007	-.011	.30
	.40	-.008	.093	.019	.003	-.0005	-.018	.40

15	-.40	-.010	.109	.030	-.001	-.0003	.004	-.40
	-.30	.003	.058	.013	.011	-.0005	.002	-.30
	-.20	.006	.043	.007	.019	-.0006	.001	-.20
	-.10	.005	.041	.008	.023	-.0006	-.000	-.10
	-.05	.005	.042	.009	.023	-.0006	-.001	-.05
	0.00	.006	.036	.008	.018	-.0006	-.001	0.00
	0.00	.006	.037	.009	.018	-.0007	-.001	0.00
	.05	.005	.039	.010	.017	-.0007	-.002	.05
	.10	.006	.038	.009	.015	-.0007	-.003	.10
	.20	.006	.042	.010	.009	-.0006	-.008	.20
	.30	.002	.061	.014	.001	-.0003	-.016	.30
	.40	-.012	.112	.034	-.019	-.0001	-.027	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.016	.139	.024	.003	-.0004	.024	-.40
	-.30	.002	.085	.012	.016	-.0004	.019	-.30
	-.20	.006	.070	.005	.023	-.0007	.013	-.20
	-.10	.004	.065	.010	.027	-.0007	.006	-.10
	-.05	.002	.065	.011	.028	-.0008	.002	-.05
	0.00	.004	.060	.011	.021	-.0007	-.002	0.00
	0.00	.005	.059	.011	.021	-.0008	-.002	0.00
	.05	.002	.066	.012	.014	-.0008	-.004	.05
	.10	.003	.066	.011	.006	-.0007	-.006	.10
	.20	.004	.069	.010	.001	-.0006	-.019	.20
	.30	.001	.082	.016	-.004	-.0005	-.032	.30
	.40	-.015	.127	.030	-.037	-.0005	-.043	.40
25	-.40	-.015	.168	.003	.018	-.0007	.042	-.40
	-.30	.001	.107	.005	.026	-.0005	.033	-.30
	-.20	.003	.101	.004	.026	-.0007	.026	-.20
	-.10	-.000	.101	.006	.027	-.0007	.016	-.10
	-.05	-.001	.097	.011	.029	-.0009	.006	-.05
	0.00	.000	.088	.013	.020	-.0009	-.002	0.00
	0.00	.001	.087	.012	.020	-.0009	-.003	0.00
	.05	-.001	.095	.011	.006	-.0009	-.009	.05
	.10	.001	.097	.007	.005	-.0008	-.020	.10
	.20	.003	.098	.005	-.002	-.0007	-.035	.20
	.30	.001	.108	.005	-.015	-.0004	-.049	.30
	.40	-.013	.144	.013	-.076	-.0002	-.061	.40
30	-.40	-.022	.207	-.013	.060	-.0007	.045	-.40
	-.30	.002	.136	-.002	.055	-.0004	.042	-.30
	-.20	.005	.126	-.001	.057	-.0007	.029	-.20
	-.10	.003	.127	.005	.059	-.0007	.017	-.10
	-.05	.001	.124	.006	.053	-.0008	.011	-.05
	0.00	.001	.113	.013	.024	-.0008	-.002	0.00
	0.00	.001	.113	.013	.024	-.0008	-.002	0.00
	.05	.000	.126	.008	-.007	-.0008	-.015	.05
	.10	.002	.127	.007	-.020	-.0008	-.024	.10
	.20	.005	.128	-.001	-.031	-.0006	-.038	.20
	.30	.004	.143	-.006	-.049	-.0005	-.059	.30
	.40	-.012	.190	-.021	-.124	-.0001	-.068	.40
35	-.40	-.028	.248	-.044	.096	-.0006	.057	-.40
	-.30	.003	.178	-.028	.072	-.0003	.054	-.30
	-.20	.009	.158	-.015	.079	-.0004	.036	-.20
	-.10	.007	.149	.004	.083	-.0007	.018	-.10
	-.05	.006	.145	.005	.080	-.0007	.013	-.05
	0.00	.007	.134	.012	.052	-.0007	.004	0.00
	0.00	.006	.133	.011	.053	-.0007	.004	0.00
	.05	.005	.148	.005	-.028	-.0007	-.015	.05
	.10	.007	.153	-.000	-.048	-.0007	-.020	.10
	.20	.010	.169	-.018	-.055	-.0006	-.039	.20
	.30	.003	.193	-.031	-.081	-.0004	-.058	.30
	.40	-.025	.243	-.050	-.175	-.0002	-.067	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.034	.266	-.045	.123	-.0009	.088	-.40
	-.30	-.003	.205	-.024	.122	-.0004	.067	-.30
	-.20	.005	.185	-.010	.105	-.0005	.047	-.20
	-.10	.003	.187	.008	.083	-.0007	.031	-.10
	-.05	.001	.185	.008	.075	-.0007	.020	-.05
	0.00	.002	.177	.007	.077	-.0006	.009	0.00
	0.00	.001	.178	.009	.077	-.0006	.009	0.00
	.05	.000	.197	.004	-.046	-.0007	-.017	.05
	.10	.001	.201	.002	-.050	-.0006	-.033	.10
	.20	.004	.208	-.018	-.071	-.0005	-.053	.20
	.30	-.001	.213	-.026	-.099	-.0003	-.070	.30
	.40	-.024	.236	-.037	-.197	-.0001	-.087	.40
45	-.40	-.030	.299	-.063	.133	-.0012	.105	-.40
	-.30	-.005	.235	-.027	.142	-.0006	.084	-.30
	-.20	.002	.228	-.009	.129	-.0006	.066	-.20
	-.10	-.001	.225	.011	.102	-.0007	.045	-.10
	-.05	-.002	.224	.012	.085	-.0007	.033	-.05
	0.00	-.000	.219	.008	.075	-.0008	.020	0.00
	0.00	-.002	.219	.007	.077	-.0008	.018	0.00
	.05	-.002	.228	.013	-.044	-.0006	-.031	.05
	.10	-.001	.227	.012	-.044	-.0007	-.043	.10
	.20	.002	.225	-.001	-.055	-.0006	-.065	.20
	.30	-.004	.230	-.018	-.138	-.0003	-.085	.30
	.40	-.026	.260	-.045	-.249	-.0004	-.106	.40
50	-.40	-.027	.308	-.070	.151	-.0010	.115	-.40
	-.30	-.007	.258	-.027	.155	-.0006	.093	-.30
	-.20	-.005	.244	-.003	.142	-.0007	.070	-.20
	-.10	-.010	.255	.012	.119	-.0007	.047	-.10
	-.05	-.012	.258	.016	.103	-.0007	.038	-.05
	0.00	-.010	.259	.018	.076	-.0006	.028	0.00
	0.00	-.012	.259	.017	.074	-.0006	.028	0.00
	.05	-.016	.262	.022	-.032	-.0006	-.041	.05
	.10	-.014	.257	.017	-.031	-.0006	-.051	.10
	.20	-.007	.254	-.000	-.089	-.0005	-.071	.20
	.30	-.005	.258	-.020	-.160	-.0004	-.092	.30
	.40	-.019	.274	-.049	-.259	-.0005	-.117	.40
55	-.40	-.029	.331	-.076	.128	-.0006	.112	-.40
	-.30	-.009	.289	-.030	.165	-.0006	.102	-.30
	-.20	-.004	.264	-.003	.154	-.0005	.079	-.20
	-.10	-.007	.274	.022	.127	-.0007	.053	-.10
	-.05	-.009	.273	.025	.108	-.0007	.041	-.05
	0.00	-.007	.275	.027	.094	-.0006	.032	0.00
	0.00	-.010	.275	.028	.093	-.0006	.032	0.00
	.05	-.014	.276	.026	-.049	-.0007	-.040	.05
	.10	-.013	.271	.021	-.071	-.0007	-.053	.10
	.20	-.008	.272	.002	-.107	-.0005	-.077	.20
	.30	-.008	.278	-.021	-.174	-.0004	-.103	.30
	.40	-.024	.297	-.055	-.257	-.0005	-.126	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.025	.357	-.065	.079	-.0004	.102	-.40
	-.30	-.011	.302	-.025	.121	-.0004	.091	-.30
	-.20	-.011	.285	.004	.131	-.0005	.074	-.20
	-.10	-.016	.291	.028	.131	-.0007	.059	-.10
	-.05	-.018	.293	.032	.110	-.0007	.044	-.05
	0.00	-.017	.295	.034	.096	-.0007	.036	0.00
	0.00	-.019	.290	.033	.094	-.0008	.035	0.00
	.05	-.024	.292	.031	-.062	-.0008	-.045	.05
	.10	-.022	.291	.026	-.085	-.0007	-.060	.10
	.20	-.015	.288	.005	-.092	-.0006	-.074	.20
	.30	-.010	.297	-.020	-.143	-.0004	-.097	.30
	.40	-.020	.327	-.051	-.174	-.0009	-.110	.40
65	-.40	-.024	.379	-.061	.057	-.0005	.094	-.40
	-.30	-.011	.324	-.023	.085	-.0005	.077	-.30
	-.20	-.013	.299	.004	.100	-.0007	.063	-.20
	-.10	-.018	.298	.023	.087	-.0007	.043	-.10
	-.05	-.019	.302	.032	.084	-.0007	.037	-.05
	0.00	-.019	.301	.033	.077	-.0008	.033	0.00
	0.00	-.019	.302	.035	.081	-.0007	.034	0.00
	.05	-.023	.298	.028	-.055	-.0009	-.045	.05
	.10	-.022	.302	.023	-.046	-.0008	-.045	.10
	.20	-.016	.303	.006	-.068	-.0007	-.067	.20
	.30	-.011	.315	-.017	-.088	-.0004	-.087	.30
	.40	-.016	.347	-.044	-.124	-.0004	-.101	.40
70	-.40	-.015	.373	-.076	.027	-.0001	.089	-.40
	-.30	-.007	.331	-.028	.061	-.0002	.071	-.30
	-.20	-.006	.313	.001	.080	-.0006	.055	-.20
	-.10	-.008	.305	.017	.072	-.0007	.035	-.10
	-.05	-.010	.309	.027	.063	-.0009	.025	-.05
	0.00	-.009	.301	.028	.053	-.0007	.019	0.00
	0.00	-.013	.304	.026	.049	-.0007	.020	0.00
	.05	-.014	.309	.023	.054	-.0008	.016	.05
	.10	-.013	.309	.016	-.027	-.0007	-.039	.10
	.20	-.010	.314	.002	-.042	-.0007	-.057	.20
	.30	-.007	.334	-.024	-.053	-.0007	-.079	.30
	.40	-.011	.353	-.069	-.089	-.0009	-.095	.40
75	-.40	-.002	.382	-.079	-.003	-.0000	.076	-.40
	-.30	-.007	.331	-.033	.044	-.0003	.064	-.30
	-.20	-.007	.321	-.002	.054	-.0006	.045	-.20
	-.10	-.008	.312	.011	.052	-.0007	.029	-.10
	-.05	-.010	.307	.013	.050	-.0007	.021	-.05
	0.00	-.006	.311	.019	.037	-.0007	.010	0.00
	0.00	-.007	.314	.020	.046	-.0008	.015	0.00
	.05	-.011	.312	.015	-.010	-.0008	-.026	.05
	.10	-.010	.314	.011	-.014	-.0007	-.034	.10
	.20	-.010	.321	-.001	-.020	-.0007	-.049	.20
	.30	-.007	.334	-.031	-.035	-.0009	-.073	.30
	.40	.001	.368	-.072	-.028	-.0011	-.083	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB1.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	.010	.375	-.088	-.012	.0001	.075	-.40
	-.30	.002	.339	-.050	.017	-.0002	.053	-.30
	-.20	-.006	.317	-.010	.044	-.0005	.042	-.20
	-.10	-.007	.314	.001	.043	-.0006	.027	-.10
	-.05	-.007	.317	.003	.041	-.0006	.017	-.05
	0.00	-.006	.315	.003	.025	-.0007	.000	0.00
	0.00	-.005	.318	.004	.029	-.0007	.001	0.00
	.05	-.005	.312	.001	.010	-.0007	-.017	.05
	.10	-.005	.312	-.002	.002	-.0007	-.030	.10
	.20	-.006	.319	-.012	-.014	-.0008	-.048	.20
	.30	.004	.332	-.049	-.006	-.0011	-.067	.30
	.40	.009	.381	-.085	.009	-.0013	-.083	.40
85	-.40	.024	.386	-.084	-.023	.0001	.073	-.40
	-.30	.015	.338	-.060	.004	-.0003	.050	-.30
	-.20	.003	.318	-.027	.023	-.0005	.038	-.20
	-.10	.003	.316	-.021	.030	-.0006	.023	-.10
	-.05	.002	.314	-.020	.030	-.0006	.010	-.05
	0.00	.000	.316	-.019	.026	-.0006	.000	0.00
	0.00	.002	.315	-.022	.024	-.0006	-.003	0.00
	.05	-.001	.315	-.020	.023	-.0006	-.014	.05
	.10	-.000	.314	-.022	.022	-.0007	-.026	.10
	.20	.005	.309	-.034	.006	-.0008	-.046	.20
	.30	.016	.338	-.058	.011	-.0011	-.059	.30
	.40	.025	.384	-.081	.022	-.0013	-.078	.40
90	-.40	.031	.397	-.079	-.027	.0002	.069	-.40
	-.30	.021	.340	-.062	-.008	-.0002	.049	-.30
	-.20	.014	.312	-.052	.004	-.0004	.039	-.20
	-.10	.007	.308	-.048	.016	-.0004	.023	-.10
	-.05	.005	.309	-.046	.022	-.0006	.009	-.05
	0.00	.005	.306	-.044	.028	-.0005	-.002	0.00
	0.00	.008	.310	-.048	.026	-.0004	-.001	0.00
	.05	.008	.307	-.046	.033	-.0006	-.014	.05
	.10	.011	.308	-.050	.034	-.0006	-.027	.10
	.20	.016	.308	-.054	.031	-.0008	-.046	.20
	.30	.022	.338	-.064	.023	-.0009	-.055	.30
	.40	.028	.385	-.076	.035	-.0011	-.075	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.013	.087	.022	-.005	-.0007	-.007	-.40
	-.30	-.013	.032	.002	.005	-.0008	-.003	-.30
	-.20	-.013	.017	-.003	.013	-.0008	-.001	-.20
	-.10	-.014	.016	-.002	.017	-.0008	.001	-.10
	-.05	-.014	.018	-.001	.020	-.0008	.001	-.05
	0.00	-.012	.012	-.003	.015	-.0008	.001	0.00
	0.00	-.012	.012	-.003	.015	-.0008	.001	0.00
	.05	-.013	.018	-.001	.014	-.0008	.001	.05
	.10	-.013	.016	-.002	.014	-.0008	.000	.10
	.20	-.013	.015	-.002	.010	-.0008	-.001	.20
	.30	-.014	.031	.004	.004	-.0009	-.004	.30
	.40	-.015	.086	.024	-.006	-.0008	-.008	.40

5	-.40	-.017	.085	.016	-.015	-.0007	-.003	-.40
	-.30	-.016	.039	.002	-.003	-.0008	-.000	-.30
	-.20	-.015	.026	.000	.006	-.0008	.001	-.20
	-.10	-.015	.029	.002	.012	-.0008	.001	-.10
	-.05	-.015	.032	.003	.016	-.0009	.001	-.05
	0.00	-.015	.024	.002	.015	-.0008	.001	0.00
	0.00	-.015	.023	.002	.017	-.0008	.001	0.00
	.05	-.016	.031	.004	.017	-.0009	.000	.05
	.10	-.015	.029	.003	.018	-.0008	-.000	.10
	.20	-.015	.026	.002	.014	-.0009	-.003	.20
	.30	-.015	.038	.004	.005	-.0008	-.007	.30
	.40	-.016	.086	.018	-.009	-.0006	-.012	.40

10	-.40	-.024	.100	.045	-.012	-.0008	-.000	-.40
	-.30	-.015	.046	.018	-.001	-.0008	.002	-.30
	-.20	-.012	.029	.010	.007	-.0009	.003	-.20
	-.10	-.012	.028	.008	.014	-.0009	.002	-.10
	-.05	-.012	.029	.008	.018	-.0009	.002	-.05
	0.00	-.011	.023	.006	.013	-.0008	.001	0.00
	0.00	-.011	.021	.006	.013	-.0008	.001	0.00
	.05	-.012	.029	.008	.014	-.0008	.001	.05
	.10	-.012	.028	.009	.015	-.0008	-.000	.10
	.20	-.012	.028	.012	.012	-.0008	-.003	.20
	.30	-.015	.047	.021	.004	-.0007	-.008	.30
	.40	-.024	.102	.048	-.011	-.0006	-.015	.40

15	-.40	-.030	.125	.048	.006	-.0007	.009	-.40
	-.30	-.015	.065	.022	.020	-.0007	.004	-.30
	-.20	-.011	.048	.011	.024	-.0008	.001	-.20
	-.10	-.012	.045	.010	.023	-.0008	.000	-.10
	-.05	-.012	.046	.010	.020	-.0009	.001	-.05
	0.00	-.011	.038	.010	.012	-.0008	.001	0.00
	0.00	-.010	.037	.009	.013	-.0008	.001	0.00
	.05	-.012	.045	.011	.009	-.0009	.001	.05
	.10	-.012	.044	.011	.004	-.0008	.000	.10
	.20	-.011	.050	.013	-.003	-.0007	-.006	.20
	.30	-.015	.071	.022	-.014	-.0006	-.015	.30
	.40	-.030	.127	.050	-.046	-.0006	-.025	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.036	.174	.036	.025	-.0013	.031	-.40
	-.30	-.015	.089	.025	.038	-.0005	.022	-.30
	-.20	-.011	.075	.013	.046	-.0008	.014	-.20
	-.10	-.013	.074	.012	.047	-.0009	.003	-.10
	-.05	-.014	.075	.015	.040	-.0008	-.000	-.05
	0.00	-.012	.067	.014	.020	-.0008	-.002	0.00
	0.00	-.011	.065	.014	.021	-.0008	-.001	0.00
	.05	-.014	.076	.015	.005	-.0009	-.003	.05
	.10	-.013	.076	.013	-.006	-.0008	-.007	.10
	.20	-.013	.079	.016	-.013	-.0008	-.022	.20
	.30	-.017	.093	.024	-.030	-.0005	-.035	.30
	.40	-.035	.148	.044	-.117	-.0004	-.042	.40
25	-.40	-.044	.219	.019	.046	-.0017	.049	-.40
	-.30	-.016	.119	.019	.062	-.0007	.038	-.30
	-.20	-.011	.100	.013	.064	-.0008	.028	-.20
	-.10	-.013	.103	.013	.060	-.0008	.018	-.10
	-.05	-.014	.101	.014	.058	-.0008	.007	-.05
	0.00	-.013	.091	.017	.018	-.0009	-.000	0.00
	0.00	-.013	.090	.017	.017	-.0009	-.000	0.00
	.05	-.015	.103	.016	-.012	-.0009	-.008	.05
	.10	-.014	.104	.016	-.020	-.0008	-.019	.10
	.20	-.013	.104	.016	-.029	-.0007	-.034	.20
	.30	-.016	.118	.020	-.060	-.0006	-.050	.30
	.40	-.035	.178	.028	-.180	-.0005	-.055	.40
30	-.40	-.048	.261	-.011	.091	-.0020	.066	-.40
	-.30	-.017	.158	.001	.099	-.0007	.051	-.30
	-.20	-.012	.136	.006	.087	-.0006	.038	-.20
	-.10	-.016	.137	.016	.077	-.0008	.025	-.10
	-.05	-.017	.138	.016	.074	-.0008	.019	-.05
	0.00	-.016	.123	.020	.019	-.0010	.001	0.00
	0.00	-.017	.125	.020	.021	-.0010	.001	0.00
	.05	-.019	.141	.018	-.031	-.0009	-.016	.05
	.10	-.017	.141	.016	-.045	-.0008	-.021	.10
	.20	-.015	.145	.008	-.057	-.0008	-.040	.20
	.30	-.018	.159	.001	-.114	-.0007	-.055	.30
	.40	-.040	.208	.002	-.254	-.0006	-.068	.40
35	-.40	-.067	.304	-.024	.131	-.0024	.096	-.40
	-.30	-.025	.197	-.002	.131	-.0010	.073	-.30
	-.20	-.015	.160	.008	.104	-.0006	.053	-.20
	-.10	-.014	.161	.019	.081	-.0009	.033	-.10
	-.05	-.015	.164	.020	.083	-.0009	.023	-.05
	0.00	-.013	.146	.023	.036	-.0010	.004	0.00
	0.00	-.014	.147	.021	.046	-.0010	.007	0.00
	.05	-.016	.169	.017	-.051	-.0009	-.018	.05
	.10	-.015	.169	.014	-.052	-.0009	-.030	.10
	.20	-.016	.171	.008	-.078	-.0008	-.052	.20
	.30	-.024	.189	.002	-.175	-.0006	-.069	.30
	.40	-.052	.237	-.004	-.328	-.0007	-.085	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.068	.343	-.039	.157	-.0029	.123	-.40
	-.30	-.032	.229	-.012	.150	-.0012	.098	-.30
	-.20	-.016	.189	.009	.123	-.0008	.071	-.20
	-.10	-.017	.189	.024	.091	-.0008	.047	-.10
	-.05	-.018	.191	.025	.074	-.0009	.035	-.05
	0.00	-.017	.177	.023	.054	-.0009	.012	0.00
	0.00	-.015	.180	.022	.050	-.0010	.012	0.00
	.05	-.021	.194	.026	-.046	-.0008	-.030	.05
	.10	-.020	.190	.025	-.047	-.0008	-.042	.10
	.20	-.019	.188	.016	-.090	-.0008	-.065	.20
	.30	-.026	.199	.007	-.212	-.0007	-.085	.30
	.40	-.053	.231	-.004	-.374	-.0011	-.109	.40
45	-.40	-.073	.377	-.060	.177	-.0031	.139	-.40
	-.30	-.034	.284	-.023	.183	-.0018	.118	-.30
	-.20	-.019	.232	.008	.150	-.0008	.089	-.20
	-.10	-.019	.225	.026	.113	-.0008	.056	-.10
	-.05	-.020	.227	.028	.089	-.0008	.040	-.05
	0.00	-.020	.223	.028	.070	-.0009	.031	0.00
	0.00	-.021	.221	.029	.065	-.0010	.030	0.00
	.05	-.022	.224	.034	-.024	-.0007	-.039	.05
	.10	-.022	.223	.030	-.040	-.0007	-.053	.10
	.20	-.021	.222	.017	-.115	-.0007	-.084	.20
	.30	-.030	.225	.002	-.267	-.0008	-.106	.30
	.40	-.064	.271	-.019	-.408	-.0019	-.131	.40
50	-.40	-.078	.403	-.066	.193	-.0031	.152	-.40
	-.30	-.040	.309	-.024	.183	-.0018	.127	-.30
	-.20	-.022	.256	.013	.166	-.0009	.103	-.20
	-.10	-.010	.252	.034	.133	-.0008	.071	-.10
	-.05	-.020	.255	.034	.108	-.0008	.052	-.05
	0.00	-.019	.253	.043	.076	-.0009	.037	0.00
	0.00	-.020	.250	.042	.080	-.0009	.037	0.00
	.05	-.024	.254	.044	-.021	-.0008	-.044	.05
	.10	-.024	.250	.037	-.060	-.0008	-.063	.10
	.20	-.025	.251	.019	-.162	-.0007	-.094	.20
	.30	-.036	.256	-.000	-.303	-.0007	-.115	.30
	.40	-.068	.306	-.026	-.414	-.0022	-.139	.40
55	-.40	-.071	.420	-.075	.158	-.0028	.145	-.40
	-.30	-.042	.331	-.022	.175	-.0017	.132	-.30
	-.20	-.028	.278	.015	.163	-.0010	.106	-.20
	-.10	-.028	.276	.045	.141	-.0009	.080	-.10
	-.05	-.029	.284	.050	.124	-.0008	.065	-.05
	0.00	-.028	.284	.052	.085	-.0009	.042	0.00
	0.00	-.030	.284	.056	.085	-.0010	.043	0.00
	.05	-.033	.278	.052	-.052	-.0010	-.046	.05
	.10	-.032	.275	.043	-.093	-.0010	-.071	.10
	.20	-.032	.270	.023	-.172	-.0008	-.100	.20
	.30	-.038	.283	-.001	-.293	-.0007	-.119	.30
	.40	-.066	.320	-.034	-.390	-.0025	-.142	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.076	.449	-.041	.058	-.0020	.108	-.40
	-.30	-.046	.344	-.027	.157	-.0014	.129	-.30
	-.20	-.028	.297	.018	.147	-.0010	.101	-.20
	-.10	-.027	.292	.050	.127	-.0009	.076	-.10
	-.05	-.027	.298	.058	.116	-.0010	.066	-.05
	0.00	-.027	.299	.068	.101	-.0011	.055	0.00
	0.00	-.029	.301	.067	.097	-.0011	.055	0.00
	.05	-.033	.298	.057	-.072	-.0010	-.058	.05
	.10	-.033	.294	.047	-.093	-.0009	-.074	.10
	.20	-.034	.291	.025	-.146	-.0007	-.096	.20
	.30	-.042	.302	-.008	-.258	-.0006	-.118	.30
	.40	-.066	.368	-.014	-.246	-.0016	-.101	.40
65	-.40	-.071	.458	-.059	.050	-.0020	.106	-.40
	-.30	-.039	.359	-.000	.066	-.0010	.084	-.30
	-.20	-.028	.314	.018	.099	-.0010	.077	-.20
	-.10	-.026	.305	.045	.101	-.0009	.062	-.10
	-.05	-.027	.316	.066	.088	-.0011	.050	-.05
	0.00	-.025	.308	.062	.064	-.0009	.036	0.00
	0.00	-.029	.310	.060	.068	-.0009	.038	0.00
	.05	-.028	.305	.052	.050	-.0008	.025	.05
	.10	-.028	.303	.045	-.055	-.0008	-.057	.10
	.20	-.031	.311	.028	-.109	-.0007	-.083	.20
	.30	-.041	.337	.007	-.123	-.0007	-.081	.30
	.40	-.066	.374	-.025	-.224	-.0019	-.103	.40
70	-.40	-.065	.449	-.072	.017	-.0014	.091	-.40
	-.30	-.042	.374	-.008	.066	-.0010	.082	-.30
	-.20	-.025	.339	.024	.063	-.0010	.058	-.20
	-.10	-.018	.319	.043	.050	-.0008	.032	-.10
	-.05	-.015	.318	.051	.033	-.0009	.015	-.05
	0.00	-.011	.314	.058	.022	-.0009	.003	0.00
	0.00	-.019	.319	.053	.019	-.0008	.003	0.00
	.05	-.022	.317	.048	.007	-.0009	-.012	.05
	.10	-.020	.317	.042	-.011	-.0008	-.029	.10
	.20	-.028	.328	.026	-.048	-.0007	-.049	.20
	.30	-.041	.356	.002	-.094	-.0011	-.078	.30
	.40	-.058	.387	-.055	-.132	-.0010	-.083	.40
75	-.40	-.050	.446	-.069	.001	-.0009	.089	-.40
	-.30	-.039	.380	-.014	.045	-.0008	.075	-.30
	-.20	-.024	.343	.031	.055	-.0009	.054	-.20
	-.10	-.024	.333	.043	.044	-.0008	.029	-.10
	-.05	-.024	.331	.044	.031	-.0009	.010	-.05
	0.00	-.022	.330	.045	.019	-.0008	.001	0.00
	0.00	-.020	.331	.047	.015	-.0008	-.002	0.00
	.05	-.023	.329	.041	.008	-.0009	-.012	.05
	.10	-.025	.327	.036	-.001	-.0009	-.024	.10
	.20	-.025	.341	.025	-.021	-.0008	-.042	.20
	.30	-.034	.351	-.022	-.069	-.0008	-.072	.30
	.40	-.051	.405	-.048	-.097	-.0009	-.083	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.052	.433	-.083	.007	-.0006	.088	-.40
	-.30	-.024	.355	-.036	.025	-.0003	.065	-.30
	-.20	-.021	.345	.010	.047	-.0007	.052	-.20
	-.10	-.014	.333	.024	.028	-.0007	.025	-.10
	-.05	-.012	.332	.025	.021	-.0008	.010	-.05
	0.00	-.012	.328	.028	.016	-.0007	-.001	0.00
	0.00	-.010	.329	.021	.017	-.0007	.001	0.00
	.05	-.013	.328	.023	.015	-.0008	-.012	.05
	.10	-.015	.329	.020	.005	-.0008	-.025	.10
	.20	-.022	.341	.012	-.014	-.0011	-.044	.20
	.30	-.028	.356	-.033	-.008	-.0009	-.066	.30
	.40	-.051	.412	-.070	-.047	-.0010	-.086	.40
85	-.40	-.023	.426	-.047	-.004	-.0009	.090	-.40
	-.30	-.016	.358	-.035	.011	-.0006	.061	-.30
	-.20	-.018	.340	.000	.027	-.0007	.049	-.20
	-.10	-.017	.337	.002	.022	-.0006	.027	-.10
	-.05	-.017	.340	.001	.022	-.0006	.012	-.05
	0.00	-.015	.334	-.004	.019	-.0007	-.001	0.00
	0.00	-.014	.333	-.001	.020	-.0006	.000	0.00
	.05	-.013	.334	-.005	.019	-.0007	-.013	.05
	.10	-.015	.332	-.004	.015	-.0008	-.025	.10
	.20	-.017	.327	-.014	.003	-.0008	-.047	.20
	.30	-.019	.358	-.033	.005	-.0011	-.061	.30
	.40	-.031	.426	-.042	-.017	-.0013	-.083	.40
90	-.40	-.005	.414	-.040	-.009	-.0001	.083	-.40
	-.30	-.005	.359	-.035	-.000	-.0003	.061	-.30
	-.20	-.009	.326	-.035	.005	-.0004	.047	-.20
	-.10	-.013	.327	-.031	.011	-.0005	.030	-.10
	-.05	-.015	.330	-.030	.016	-.0005	.014	-.05
	0.00	-.015	.336	-.027	.021	-.0006	-.001	0.00
	0.00	-.013	.332	-.029	.018	-.0006	-.001	0.00
	.05	-.013	.332	-.031	.027	-.0007	-.013	.05
	.10	-.011	.330	-.035	.029	-.0008	-.027	.10
	.20	-.009	.325	-.036	.026	-.0007	-.046	.20
	.30	-.005	.365	-.041	.014	-.0009	-.058	.30
	.40	-.005	.419	-.041	.016	-.0012	-.079	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.010	.093	.029	-.003	-.0006	-.020	-.40
	-.30	-.009	.037	.002	.009	-.0006	-.011	-.30
	-.20	-.010	.021	-.004	.018	-.0007	-.006	-.20
	-.10	-.010	.021	-.002	.023	-.0008	-.002	-.10
	-.05	-.010	.023	-.001	.026	-.0009	-.001	-.05
	0.00	-.010	.016	-.004	.024	-.0009	-.002	0.00
	0.00	-.011	.017	-.004	.022	-.0008	-.002	0.00
	.05	-.011	.020	-.001	.022	-.0007	-.002	.05
	.10	-.010	.018	-.002	.022	-.0008	-.002	.10
	.20	-.010	.019	-.003	.016	-.0007	-.006	.20
	.30	-.012	.038	.004	.004	-.0006	-.012	.30
	.40	-.012	.100	.032	-.012	-.0005	-.020	.40

5	-.40	-.018	.104	.045	-.017	-.0008	-.010	-.40
	-.30	-.013	.046	.015	-.003	-.0008	-.005	-.30
	-.20	-.012	.028	.004	.007	-.0009	-.003	-.20
	-.10	-.012	.027	.004	.014	-.0009	-.001	-.10
	-.05	-.012	.028	.004	.018	-.0008	-.001	-.05
	0.00	-.011	.021	.001	.015	-.0008	-.002	0.00
	0.00	-.012	.021	.001	.016	-.0008	-.002	0.00
	.05	-.011	.028	.004	.017	-.0008	-.002	.05
	.10	-.011	.027	.004	.018	-.0008	-.003	.10
	.20	-.011	.025	.006	.014	-.0008	-.007	.20
	.30	-.013	.041	.016	.006	-.0007	-.012	.30
	.40	-.020	.100	.047	-.010	-.0006	-.019	.40

10	-.40	-.021	.108	.049	-.016	-.0007	-.008	-.40
	-.30	-.012	.054	.017	-.001	-.0007	-.004	-.30
	-.20	-.011	.039	.010	.009	-.0008	-.001	-.20
	-.10	-.012	.041	.010	.015	-.0009	-.000	-.10
	-.05	-.012	.043	.011	.019	-.0008	-.001	-.05
	0.00	-.011	.035	.008	.015	-.0009	-.001	0.00
	0.00	-.011	.035	.008	.016	-.0008	-.001	0.00
	.05	-.011	.039	.011	.015	-.0008	-.002	.05
	.10	-.011	.037	.010	.015	-.0008	-.003	.10
	.20	-.010	.038	.012	.010	-.0008	-.007	.20
	.30	-.013	.053	.020	-.001	-.0006	-.014	.30
	.40	-.024	.113	.053	-.022	-.0007	-.024	.40

15	-.40	-.033	.134	.079	.007	-.0005	.010	-.40
	-.30	-.014	.075	.035	.016	-.0007	.007	-.30
	-.20	-.009	.053	.017	.025	-.0009	.003	-.20
	-.10	-.009	.050	.013	.024	-.0010	.000	-.10
	-.05	-.009	.051	.015	.021	-.0009	-.001	-.05
	0.00	-.008	.042	.013	.012	-.0008	-.001	0.00
	0.00	-.008	.043	.013	.012	-.0009	-.001	0.00
	.05	-.010	.050	.015	.007	-.0009	-.002	.05
	.10	-.010	.051	.015	.002	-.0009	-.003	.10
	.20	-.009	.055	.021	-.008	-.0008	-.012	.20
	.30	-.014	.073	.038	-.023	-.0006	-.025	.30
	.40	-.032	.133	.080	-.046	-.0004	-.041	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.039	.153	.056	.030	-.0006	.040	-.40
	-.30	-.016	.095	.031	.042	-.0005	.032	-.30
	-.20	-.012	.084	.018	.047	-.0009	.022	-.20
	-.10	-.012	.088	.016	.050	-.0009	.010	-.10
	-.05	-.014	.087	.020	.045	-.0009	.003	-.05
	0.00	-.013	.075	.019	.016	-.0009	-.002	0.00
	0.00	-.012	.077	.019	.017	-.0009	-.001	0.00
	.05	-.013	.085	.019	-.009	-.0009	-.006	.05
	.10	-.012	.087	.019	-.015	-.0009	-.014	.10
	.20	-.012	.087	.023	-.023	-.0008	-.031	.20
	.30	-.017	.101	.035	-.040	-.0007	-.048	.30
	.40	-.040	.150	.065	-.090	-.0003	-.065	.40
25	-.40	-.042	.208	.044	.080	-.0011	.063	-.40
	-.30	-.015	.119	.031	.075	-.0005	.053	-.30
	-.20	-.010	.106	.021	.069	-.0007	.042	-.20
	-.10	-.011	.109	.021	.068	-.0010	.025	-.10
	-.05	-.013	.112	.019	.063	-.0010	.018	-.05
	0.00	-.011	.100	.021	.029	-.0008	.001	0.00
	0.00	-.011	.098	.021	.033	-.0008	.000	0.00
	.05	-.014	.115	.023	-.024	-.0009	-.018	.05
	.10	-.013	.114	.023	-.033	-.0008	-.026	.10
	.20	-.011	.113	.025	-.045	-.0007	-.045	.20
	.30	-.014	.128	.032	-.075	-.0005	-.066	.30
	.40	-.038	.180	.053	-.184	-.0004	-.086	.40
30	-.40	-.053	.259	.012	.134	-.0015	.089	-.40
	-.30	-.022	.155	.017	.122	-.0007	.070	-.30
	-.20	-.012	.142	.018	.100	-.0009	.057	-.20
	-.10	-.013	.143	.024	.075	-.0010	.040	-.10
	-.05	-.013	.142	.025	.070	-.0011	.029	-.05
	0.00	-.010	.142	.025	.074	-.0010	.020	0.00
	0.00	-.010	.141	.024	.073	-.0010	.020	0.00
	.05	-.014	.150	.022	-.033	-.0011	-.019	.05
	.10	-.012	.147	.019	-.033	-.0009	-.035	.10
	.20	-.013	.148	.017	-.071	-.0009	-.060	.20
	.30	-.024	.165	.017	-.126	-.0007	-.085	.30
	.40	-.053	.222	.030	-.267	-.0004	-.106	.40
35	-.40	-.063	.303	-.004	.157	-.0017	.132	-.40
	-.30	-.028	.191	.011	.149	-.0009	.096	-.30
	-.20	-.015	.170	.023	.130	-.0008	.076	-.20
	-.10	-.016	.172	.033	.106	-.0011	.057	-.10
	-.05	-.017	.182	.035	.091	-.0012	.047	-.05
	0.00	-.014	.177	.040	.074	-.0010	.036	0.00
	0.00	-.014	.176	.039	.074	-.0010	.036	0.00
	.05	-.019	.177	.037	.066	-.0010	.016	.05
	.10	-.018	.174	.032	-.042	-.0010	-.041	.10
	.20	-.018	.172	.023	-.104	-.0009	-.079	.20
	.30	-.028	.188	.015	-.171	-.0009	-.108	.30
	.40	-.061	.227	.026	-.323	-.0016	-.133	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.064	.315	-.012	.182	-.0018	.149	-.40
	-.30	-.029	.230	.006	.149	-.0011	.123	-.30
	-.20	-.016	.199	.025	.137	-.0008	.094	-.20
	-.10	-.017	.216	.050	.111	-.0011	.070	-.10
	-.05	-.019	.217	.058	.102	-.0011	.060	-.05
	0.00	-.017	.207	.047	.090	-.0009	.052	0.00
	0.00	-.018	.207	.046	.088	-.0010	.051	0.00
	.05	-.019	.207	.042	.078	-.0010	.042	.05
	.10	-.018	.204	.035	.027	-.0009	.004	.10
	.20	-.019	.203	.025	-.121	-.0009	-.098	.20
	.30	-.029	.217	.009	-.212	-.0010	-.126	.30
	.40	-.066	.258	.004	-.344	-.0012	-.155	.40
45	-.40	-.070	.341	-.018	.190	-.0017	.153	-.40
	-.30	-.036	.270	.007	.176	-.0012	.128	-.30
	-.20	-.021	.236	.024	.140	-.0009	.097	-.20
	-.10	-.025	.263	.081	.096	-.0011	.061	-.10
	-.05	-.026	.256	.069	.076	-.0011	.045	-.05
	0.00	-.023	.250	.058	.062	-.0010	.034	0.00
	0.00	-.024	.250	.060	.061	-.0010	.032	0.00
	.05	-.027	.248	.052	.060	-.0009	.029	.05
	.10	-.026	.244	.045	.068	-.0008	.031	.10
	.20	-.025	.238	.030	-.131	-.0007	-.107	.20
	.30	-.036	.241	.019	-.215	-.0007	-.130	.30
	.40	-.068	.277	.004	-.351	-.0014	-.162	.40
50	-.40	-.077	.373	-.024	.163	-.0018	.147	-.40
	-.30	-.040	.306	.008	.155	-.0013	.129	-.30
	-.20	-.023	.273	.036	.121	-.0009	.094	-.20
	-.10	-.026	.287	.083	.087	-.0012	.055	-.10
	-.05	-.028	.286	.077	.068	-.0012	.040	-.05
	0.00	-.024	.279	.071	.052	-.0010	.030	0.00
	0.00	-.026	.282	.071	.047	-.0009	.030	0.00
	.05	-.031	.283	.065	.042	-.0009	.023	.05
	.10	-.029	.281	.056	.033	-.0007	.015	.10
	.20	-.028	.274	.035	-.102	-.0007	-.100	.20
	.30	-.038	.281	.017	-.193	-.0009	-.132	.30
	.40	-.073	.303	.006	-.323	-.0013	-.164	.40
55	-.40	-.085	.402	-.000	.113	-.0015	.134	-.40
	-.30	-.044	.318	.011	.134	-.0011	.116	-.30
	-.20	-.028	.321	.100	.094	-.0011	.076	-.20
	-.10	-.028	.314	.094	.075	-.0013	.051	-.10
	-.05	-.028	.312	.088	.062	-.0011	.039	-.05
	0.00	-.024	.308	.081	.052	-.0009	.033	0.00
	0.00	-.026	.310	.081	.047	-.0009	.031	0.00
	.05	-.027	.307	.076	.031	-.0009	.020	.05
	.10	-.027	.307	.068	.042	-.0007	.023	.10
	.20	-.029	.308	.052	.015	-.0004	-.005	.20
	.30	-.047	.305	.027	-.189	-.0008	-.133	.30
	.40	-.087	.340	.020	-.268	-.0007	-.142	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.101	.438	.009	.060	-.0012	.104	-.40
	-.30	-.048	.342	.016	.122	-.0011	.115	-.30
	-.20	-.025	.317	.063	.103	-.0012	.080	-.20
	-.10	-.022	.319	.090	.087	-.0013	.057	-.10
	-.05	-.022	.316	.088	.087	-.0012	.053	-.05
	0.00	-.017	.306	.080	.056	-.0011	.034	0.00
	0.00	-.017	.307	.079	.054	-.0010	.033	0.00
	.05	-.021	.308	.071	.041	-.0010	.020	.05
	.10	-.022	.308	.066	.036	-.0007	.015	.10
	.20	-.030	.316	.054	-.061	-.0005	-.062	.20
	.30	-.050	.324	.023	-.149	-.0007	-.123	.30
	.40	-.096	.390	.029	-.195	-.0014	-.118	.40
65	-.40	-.091	.425	-.031	.042	-.0009	.083	-.40
	-.30	-.047	.362	.039	.061	-.0010	.080	-.30
	-.20	-.026	.341	.059	.093	-.0011	.078	-.20
	-.10	-.021	.326	.076	.104	-.0011	.070	-.10
	-.05	-.022	.333	.094	.069	-.0010	.041	-.05
	0.00	-.018	.317	.081	.042	-.0009	.023	0.00
	0.00	-.020	.328	.082	.042	-.0009	.023	0.00
	.05	-.027	.326	.073	.027	-.0008	.009	.05
	.10	-.028	.319	.056	-.018	-.0008	-.031	.10
	.20	-.032	.334	.052	-.050	-.0005	-.063	.20
	.30	-.047	.366	.041	-.072	-.0007	-.091	.30
	.40	-.085	.400	-.003	-.131	-.0013	-.107	.40
70	-.40	-.084	.435	-.021	.021	-.0005	.092	-.40
	-.30	-.047	.374	.032	.043	-.0008	.071	-.30
	-.20	-.024	.337	.046	.067	-.0010	.062	-.20
	-.10	-.022	.332	.068	.059	-.0011	.036	-.10
	-.05	-.022	.329	.069	.034	-.0011	.010	-.05
	0.00	-.016	.325	.069	.017	-.0010	-.004	0.00
	0.00	-.020	.326	.069	.018	-.0010	-.003	0.00
	.05	-.022	.320	.058	.012	-.0008	-.011	.05
	.10	-.023	.328	.060	.000	-.0006	-.022	.10
	.20	-.028	.333	.039	-.035	-.0005	-.060	.20
	.30	-.048	.361	.026	-.066	-.0007	-.091	.30
	.40	-.087	.421	-.013	-.102	-.0010	-.102	.40
75	-.40	-.081	.436	-.027	.019	-.0004	.096	-.40
	-.30	-.045	.373	.004	.033	-.0007	.070	-.30
	-.20	-.025	.350	.039	.052	-.0010	.053	-.20
	-.10	-.018	.336	.050	.041	-.0011	.027	-.10
	-.05	-.016	.330	.047	.033	-.0011	.014	-.05
	0.00	-.008	.332	.051	.022	-.0010	.001	0.00
	0.00	-.009	.329	.052	.023	-.0010	.000	0.00
	.05	-.016	.335	.052	.016	-.0009	-.011	.05
	.10	-.018	.340	.053	.005	-.0008	-.025	.10
	.20	-.028	.341	.036	-.019	-.0007	-.051	.20
	.30	-.042	.365	-.004	-.043	-.0007	-.085	.30
	.40	-.079	.433	-.025	-.080	-.0010	-.103	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.066	.438	-.034	.014	-.0004	.096	-.40
	-.30	-.034	.374	-.002	.022	-.0007	.066	-.30
	-.20	-.021	.347	.025	.041	-.0011	.051	-.20
	-.10	-.015	.339	.033	.035	-.0011	.030	-.10
	-.05	-.014	.341	.033	.030	-.0011	.014	-.05
	0.00	-.013	.339	.031	.022	-.0009	.001	0.00
	0.00	-.013	.339	.038	.023	-.0010	.002	0.00
	.05	-.015	.338	.031	.018	-.0007	-.013	.05
	.10	-.017	.340	.031	.010	-.0007	-.027	.10
	.20	-.024	.346	.025	-.007	-.0007	-.050	.20
	.30	-.033	.373	-.003	-.014	-.0008	-.073	.30
	.40	-.067	.442	-.031	-.039	-.0012	-.104	.40
85	-.40	-.047	.438	-.011	.018	-.0004	.099	-.40
	-.30	-.027	.383	-.008	.018	-.0007	.065	-.30
	-.20	-.017	.343	.006	.024	-.0009	.047	-.20
	-.10	-.015	.341	.008	.025	-.0011	.029	-.10
	-.05	-.015	.342	.006	.023	-.0011	.013	-.05
	0.00	-.012	.339	.008	.019	-.0009	-.001	0.00
	0.00	-.012	.342	.009	.017	-.0009	-.002	0.00
	.05	-.016	.342	.004	.018	-.0008	-.015	.05
	.10	-.016	.341	.007	.015	-.0008	-.030	.10
	.20	-.019	.339	.003	.001	-.0008	-.050	.20
	.30	-.030	.380	-.006	-.009	-.0007	-.070	.30
	.40	-.053	.444	-.010	-.014	-.0012	-.102	.40
90	-.40	.119	.441	-.017	.019	-.0006	.095	-.40
	-.30	.070	.384	-.015	.010	-.0007	.065	-.30
	-.20	.029	.336	-.015	.005	-.0008	.047	-.20
	-.10	.002	.337	-.020	.011	-.0008	.029	-.10
	-.05	-.005	.336	-.021	.015	-.0009	.014	-.05
	0.00	-.007	.339	-.020	.020	-.0008	-.001	0.00
	0.00	-.007	.341	-.018	.020	-.0008	-.001	0.00
	.05	-.005	.339	-.021	.026	-.0008	-.016	.05
	.10	.002	.339	-.022	.027	-.0008	-.031	.10
	.20	.028	.342	-.021	.017	-.0008	-.051	.20
	.30	.072	.382	-.016	.002	-.0009	-.068	.30
	.40	.118	.437	-.015	-.010	-.0012	-.098	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.008	.105	.033	-.002	-.0006	-.012	-.40
	-.30	-.008	.043	.003	.005	-.0005	-.007	-.30
	-.20	-.009	.025	-.005	.012	-.0006	-.004	-.20
	-.10	-.009	.026	-.003	.014	-.0006	-.002	-.10
	-.05	-.009	.028	-.002	.016	-.0006	-.001	-.05
	0.00	-.008	.018	-.005	.022	-.0007	-.001	0.00
	0.00	-.007	.017	-.006	.022	-.0007	-.001	0.00
	.05	-.008	.025	-.001	.015	-.0005	-.002	.05
	.10	-.009	.024	-.002	.015	-.0005	-.002	.10
	.20	-.009	.022	-.004	.009	-.0005	-.004	.20
	.30	-.010	.040	.004	.000	-.0005	-.007	.30
	.40	-.012	.102	.034	-.016	-.0004	-.013	.40

5	-.40	-.011	.108	.038	-.020	-.0006	-.007	-.40
	-.30	-.007	.050	.009	-.003	-.0006	-.004	-.30
	-.20	-.006	.033	.002	.008	-.0006	-.002	-.20
	-.10	-.007	.034	.003	.014	-.0005	-.001	-.10
	-.05	-.007	.036	.005	.018	-.0006	-.001	-.05
	0.00	-.007	.030	.001	.014	-.0006	-.002	0.00
	0.00	-.007	.031	.001	.014	-.0006	-.002	0.00
	.05	-.007	.035	.005	.014	-.0006	-.002	.05
	.10	-.007	.033	.004	.016	-.0006	-.003	.10
	.20	-.007	.033	.004	.014	-.0007	-.006	.20
	.30	-.009	.051	.012	.007	-.0006	-.010	.30
	.40	-.013	.112	.042	-.004	-.0003	-.017	.40

10	-.40	-.019	.117	.057	-.004	-.0003	-.003	-.40
	-.30	-.007	.058	.019	.003	-.0004	-.002	-.30
	-.20	-.004	.042	.009	.009	-.0007	-.001	-.20
	-.10	-.005	.044	.010	.013	-.0006	-.000	-.10
	-.05	-.006	.046	.011	.015	-.0007	-.000	-.05
	0.00	-.005	.038	.008	.011	-.0006	-.001	0.00
	0.00	-.005	.036	.007	.011	-.0006	-.001	0.00
	.05	-.007	.044	.012	.013	-.0007	-.001	.05
	.10	-.006	.043	.011	.014	-.0007	-.003	.10
	.20	-.005	.041	.012	.008	-.0007	-.007	.20
	.30	-.007	.056	.020	-.004	-.0005	-.013	.30
	.40	-.018	.116	.057	-.026	-.0004	-.023	.40

15	-.40	-.027	.136	.064	.017	-.0004	.018	-.40
	-.30	-.009	.081	.028	.026	-.0004	.012	-.30
	-.20	-.005	.065	.015	.032	-.0007	.006	-.20
	-.10	-.006	.063	.015	.028	-.0006	.001	-.10
	-.05	-.007	.064	.017	.023	-.0007	-.000	-.05
	0.00	-.006	.055	.015	.008	-.0007	-.001	0.00
	0.00	-.006	.054	.015	.009	-.0007	-.001	0.00
	.05	-.007	.061	.018	-.000	-.0007	-.001	.05
	.10	-.006	.062	.017	-.005	-.0007	-.004	.10
	.20	-.006	.067	.019	-.013	-.0006	-.013	.20
	.30	-.011	.084	.031	-.026	-.0004	-.027	.30
	.40	-.029	.142	.070	-.052	-.0002	-.043	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.035	.177	.058	.049	-.0010	.049	-.40
	-.30	-.011	.101	.033	.050	-.0005	.037	-.30
	-.20	-.006	.087	.021	.050	-.0007	.025	-.20
	-.10	-.007	.091	.019	.051	-.0008	.010	-.10
	-.05	-.008	.092	.019	.039	-.0008	.002	-.05
	0.00	-.006	.077	.020	-.002	-.0008	-.002	0.00
	0.00	-.007	.076	.020	-.003	-.0008	-.001	0.00
	.05	-.008	.086	.022	-.022	-.0006	-.008	.05
	.10	-.008	.089	.021	-.025	-.0007	-.017	.10
	.20	-.007	.089	.023	-.031	-.0006	-.033	.20
	.30	-.011	.105	.036	-.050	-.0005	-.051	.30
	.40	-.032	.158	.068	-.125	-.0003	-.069	.40
25	-.40	-.046	.219	.027	.089	-.0013	.072	-.40
	-.30	-.013	.124	.023	.078	-.0004	.056	-.30
	-.20	-.006	.113	.020	.064	-.0007	.044	-.20
	-.10	-.009	.119	.025	.064	-.0007	.026	-.10
	-.05	-.010	.122	.027	.061	-.0008	.017	-.05
	0.00	-.009	.108	.024	-.010	-.0008	-.005	0.00
	0.00	-.009	.108	.024	-.012	-.0008	-.006	0.00
	.05	-.011	.121	.027	-.034	-.0007	-.022	.05
	.10	-.010	.121	.026	-.034	-.0008	-.030	.10
	.20	-.007	.119	.023	-.049	-.0006	-.051	.20
	.30	-.014	.133	.026	-.079	-.0004	-.075	.30
	.40	-.043	.191	.042	-.214	-.0001	-.091	.40
30	-.40	-.041	.260	-.002	.143	-.0013	.099	-.40
	-.30	-.010	.154	.007	.115	-.0004	.076	-.30
	-.20	-.008	.144	.015	.092	-.0005	.056	-.20
	-.10	-.011	.149	.029	.062	-.0007	.042	-.10
	-.05	-.013	.153	.032	.060	-.0008	.027	-.05
	0.00	-.010	.135	.028	-.002	-.0006	-.007	0.00
	0.00	-.008	.135	.028	-.002	-.0006	-.006	0.00
	.05	-.012	.155	.028	-.032	-.0006	-.031	.05
	.10	-.009	.152	.026	-.040	-.0006	-.043	.10
	.20	-.006	.147	.017	-.079	-.0004	-.065	.20
	.30	-.009	.158	.011	-.133	-.0002	-.090	.30
	.40	-.035	.206	.013	-.289	-.0001	-.114	.40
35	-.40	-.058	.296	-.005	.131	-.0016	.158	-.40
	-.30	-.019	.180	.017	.101	-.0006	.132	-.30
	-.20	-.011	.170	.024	.112	-.0009	.085	-.20
	-.10	-.014	.180	.041	.094	-.0011	.063	-.10
	-.05	-.016	.185	.045	.084	-.0012	.050	-.05
	0.00	-.013	.178	.039	.059	-.0010	.024	0.00
	0.00	-.011	.179	.039	.051	-.0010	.022	0.00
	.05	-.017	.183	.049	-.044	-.0010	-.039	.05
	.10	-.016	.178	.042	-.066	-.0010	-.057	.10
	.20	-.016	.173	.028	-.104	-.0008	-.086	.20
	.30	-.021	.184	.025	-.142	-.0006	-.121	.30
	.40	-.055	.235	.025	-.312	-.0006	-.147	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.066	.330	-.016	.174	-.0018	.153	-.40
	-.30	-.027	.218	.013	.156	-.0008	.126	-.30
	-.20	-.016	.207	.028	.126	-.0010	.098	-.20
	-.10	-.017	.216	.053	.096	-.0012	.071	-.10
	-.05	-.020	.221	.058	.088	-.0012	.061	-.05
	0.00	-.018	.222	.067	.083	-.0010	.053	0.00
	0.00	-.019	.222	.065	.079	-.0010	.052	0.00
	.05	-.022	.221	.059	-.042	-.0011	-.044	.05
	.10	-.020	.215	.050	-.076	-.0010	-.068	.10
	.20	-.018	.214	.036	-.114	-.0007	-.097	.20
	.30	-.028	.223	.020	-.160	-.0002	-.133	.30
	.40	-.061	.274	.010	-.342	-.0002	-.155	.40
45	-.40	-.074	.334	-.017	.190	-.0019	.166	-.40
	-.30	-.031	.254	.022	.155	-.0009	.131	-.30
	-.20	-.019	.245	.036	.132	-.0012	.101	-.20
	-.10	-.022	.253	.061	.102	-.0013	.070	-.10
	-.05	-.025	.267	.089	.086	-.0012	.057	-.05
	0.00	-.023	.260	.079	.074	-.0012	.048	0.00
	0.00	-.024	.260	.079	.070	-.0012	.048	0.00
	.05	-.027	.258	.068	.074	-.0012	.045	.05
	.10	-.026	.255	.060	-.091	-.0010	-.071	.10
	.20	-.025	.255	.045	-.114	-.0007	-.097	.20
	.30	-.035	.270	.029	-.161	-.0002	-.133	.30
	.40	-.071	.279	.010	-.359	-.0008	-.165	.40
50	-.40	-.070	.364	.004	.178	-.0019	.168	-.40
	-.30	-.031	.276	.030	.165	-.0012	.142	-.30
	-.20	-.024	.279	.052	.128	-.0014	.105	-.20
	-.10	-.030	.298	.095	.090	-.0015	.070	-.10
	-.05	-.032	.301	.097	.071	-.0014	.055	-.05
	0.00	-.028	.292	.086	.053	-.0013	.041	0.00
	0.00	-.028	.294	.087	.049	-.0012	.040	0.00
	.05	-.034	.291	.078	.034	-.0010	.028	.05
	.10	-.032	.289	.069	-.020	-.0009	-.020	.10
	.20	-.028	.282	.050	-.101	-.0007	-.095	.20
	.30	-.034	.275	.026	-.161	-.0005	-.138	.30
	.40	-.063	.296	.011	-.320	-.0013	-.156	.40
55	-.40	-.071	.411	.068	.079	-.0012	.119	-.40
	-.30	-.035	.308	.043	.149	-.0010	.138	-.30
	-.20	-.027	.302	.063	.138	-.0015	.112	-.20
	-.10	-.032	.319	.105	.106	-.0015	.079	-.10
	-.05	-.035	.313	.095	.094	-.0015	.066	-.05
	0.00	-.034	.306	.087	.076	-.0013	.054	0.00
	0.00	-.034	.307	.086	.069	-.0013	.053	0.00
	.05	-.038	.303	.078	.028	-.0011	.022	.05
	.10	-.036	.301	.070	-.004	-.0010	-.002	.10
	.20	-.034	.294	.052	-.091	-.0008	-.091	.20
	.30	-.042	.301	.034	-.137	-.0006	-.134	.30
	.40	-.071	.373	.084	-.203	-.0006	-.120	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.085	.445	.051	.087	-.0015	.122	-.40
	-.30	-.039	.339	.054	.096	-.0011	.107	-.30
	-.20	-.024	.336	.098	.141	-.0016	.114	-.20
	-.10	-.023	.334	.106	.068	-.0016	.054	-.10
	-.05	-.023	.331	.104	.103	-.0015	.074	-.05
	0.00	-.020	.317	.092	.098	-.0013	.070	0.00
	0.00	-.024	.321	.091	.093	-.0013	.070	0.00
	.05	-.028	.309	.077	-.024	-.0011	-.029	.05
	.10	-.026	.316	.078	-.037	-.0010	-.040	.10
	.20	-.029	.305	.047	-.067	-.0009	-.064	.20
	.30	-.042	.350	.062	-.095	-.0005	-.112	.30
	.40	-.083	.404	.057	-.193	-.0016	-.121	.40
65	-.40	-.070	.462	.052	.084	-.0016	.124	-.40
	-.30	-.039	.377	.078	.071	-.0013	.094	-.30
	-.20	-.033	.360	.098	.087	-.0017	.080	-.20
	-.10	-.035	.348	.098	.083	-.0017	.060	-.10
	-.05	-.036	.346	.095	.072	-.0015	.051	-.05
	0.00	-.022	.339	.095	.064	-.0013	.045	0.00
	0.00	-.026	.337	.093	.061	-.0013	.046	0.00
	.05	-.036	.336	.081	.013	-.0011	-.001	.05
	.10	-.034	.333	.075	-.030	-.0011	-.040	.10
	.20	-.034	.347	.075	-.066	-.0008	-.074	.20
	.30	-.039	.379	.070	-.074	-.0009	-.103	.30
	.40	-.069	.426	.051	-.166	-.0024	-.127	.40
70	-.40	-.068	.447	.015	.028	-.0009	.110	-.40
	-.30	-.044	.399	.063	.060	-.0014	.094	-.30
	-.20	-.026	.360	.075	.065	-.0016	.069	-.20
	-.10	-.032	.352	.085	.045	-.0015	.032	-.10
	-.05	-.033	.348	.083	.025	-.0015	.010	-.05
	0.00	-.026	.353	.093	.010	-.0013	-.002	0.00
	0.00	-.022	.352	.090	.010	-.0013	-.002	0.00
	.05	-.027	.351	.086	.003	-.0013	-.012	.05
	.10	-.029	.359	.086	-.015	-.0012	-.030	.10
	.20	-.032	.366	.076	-.038	-.0009	-.059	.20
	.30	-.045	.394	.055	-.072	-.0009	-.095	.30
	.40	-.075	.446	.023	-.083	-.0007	-.113	.40
75	-.40	-.074	.450	.002	.028	-.0007	.114	-.40
	-.30	-.040	.401	.038	.038	-.0011	.080	-.30
	-.20	-.021	.366	.055	.057	-.0014	.064	-.20
	-.10	-.016	.353	.064	.043	-.0014	.036	-.10
	-.05	-.016	.350	.064	.033	-.0013	.020	-.05
	0.00	-.012	.347	.068	.019	-.0012	.005	0.00
	0.00	-.011	.348	.069	.019	-.0012	.006	0.00
	.05	-.017	.348	.062	.011	-.0011	-.009	.05
	.10	-.018	.353	.061	-.002	-.0010	-.024	.10
	.20	-.026	.370	.060	-.025	-.0008	-.053	.20
	.30	-.039	.387	.016	-.048	-.0008	-.090	.30
	.40	-.079	.467	.007	-.054	-.0007	-.114	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.066	.457	-.023	.033	-.0006	.116	-.40
	-.30	-.027	.393	-.001	.028	-.0010	.077	-.30
	-.20	-.014	.366	.039	.042	-.0013	.062	-.20
	-.10	-.010	.355	.044	.034	-.0013	.037	-.10
	-.05	-.009	.356	.041	.027	-.0013	.020	-.05
	0.00	-.007	.351	.041	.020	-.0011	.005	0.00
	0.00	-.009	.354	.045	.022	-.0011	.006	0.00
	.05	-.010	.355	.041	.017	-.0010	-.010	.05
	.10	-.012	.357	.044	.005	-.0009	-.026	.10
	.20	-.019	.371	.044	-.017	-.0008	-.053	.20
	.30	-.028	.390	-.004	-.028	-.0007	-.077	.30
	.40	-.069	.475	-.019	-.053	-.0009	-.116	.40
85	-.40	-.041	.462	-.002	.031	-.0009	.116	-.40
	-.30	-.018	.404	.008	.025	-.0011	.078	-.30
	-.20	-.010	.364	.020	.027	-.0012	.058	-.20
	-.10	-.010	.360	.018	.025	-.0012	.036	-.10
	-.05	-.011	.358	.016	.023	-.0012	.019	-.05
	0.00	-.008	.360	.018	.017	-.0011	.004	0.00
	0.00	-.007	.355	.019	.021	-.0010	.006	0.00
	.05	-.008	.358	.015	.018	-.0009	-.011	.05
	.10	-.009	.360	.021	.013	-.0008	-.028	.10
	.20	-.013	.361	.018	-.004	-.0008	-.053	.20
	.30	-.023	.403	.010	-.018	-.0008	-.075	.30
	.40	-.046	.474	.006	-.031	-.0010	-.111	.40
90	-.40	.131	.465	.018	.025	-.0009	.112	-.40
	-.30	.081	.407	.009	.015	-.0010	.077	-.30
	-.20	.037	.361	-.002	.008	-.0010	.058	-.20
	-.10	.006	.357	-.011	.009	-.0010	.035	-.10
	-.05	-.002	.356	-.012	.014	-.0010	.018	-.05
	0.00	-.004	.354	-.012	.018	-.0008	.003	0.00
	0.00	-.003	.354	-.011	.018	-.0008	.003	0.00
	.05	-.001	.355	-.013	.026	-.0007	-.012	.05
	.10	.007	.356	-.011	.025	-.0006	-.028	.10
	.20	.035	.360	-.004	.014	-.0006	-.051	.20
	.30	.080	.413	.011	-.008	-.0006	-.072	.30
	.40	.128	.478	.024	-.028	-.0012	-.106	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.018	.086	.040	-.005	-.0006	-.012	-.40
	-.30	-.016	.028	.006	.006	-.0007	-.006	-.30
	-.20	-.017	.011	-.002	.013	-.0008	-.002	-.20
	-.10	-.017	.013	-.000	.017	-.0008	.001	-.10
	-.05	-.017	.015	.001	.020	-.0008	.002	-.05
	0.00	-.016	.005	-.002	.017	-.0007	.001	0.00
	0.00	-.016	.005	-.002	.017	-.0007	.001	0.00
	.05	-.016	.010	.001	.016	-.0008	.001	.05
	.10	-.017	.008	-.000	.016	-.0008	.001	.10
	.20	-.017	.009	-.001	.011	-.0008	-.002	.20
	.30	-.017	.029	.008	.001	-.0007	-.006	.30
	.40	-.019	.093	.044	-.013	-.0006	-.013	.40

5	-.40	-.020	.100	.050	-.020	-.0006	-.009	-.40
	-.30	-.015	.040	.014	-.004	-.0007	-.003	-.30
	-.20	-.014	.022	.005	.009	-.0007	.000	-.20
	-.10	-.014	.022	.006	.017	-.0007	.002	-.10
	-.05	-.014	.024	.008	.021	-.0007	.002	-.05
	0.00	-.014	.017	.004	.017	-.0008	.001	0.00
	0.00	-.013	.018	.004	.016	-.0008	.001	0.00
	.05	-.014	.024	.008	.019	-.0008	.001	.05
	.10	-.014	.022	.007	.020	-.0008	-.000	.10
	.20	-.014	.021	.007	.016	-.0007	-.004	.20
	.30	-.014	.037	.015	.007	-.0007	-.010	.30
	.40	-.019	.096	.051	-.008	-.0007	-.018	.40

10	-.40	-.008	.073	-.057	.002	-.0000	-.004	-.40
	-.30	-.011	.054	-.038	.008	-.0003	-.001	-.30
	-.20	-.017	.065	-.006	.013	-.0007	.001	-.20
	-.10	-.023	.084	.020	.017	-.0008	.002	-.10
	-.05	-.025	.092	.028	.019	-.0008	.002	-.05
	0.00	-.024	.086	.027	.015	-.0008	.002	0.00
	0.00	-.023	.087	.027	.015	-.0008	.002	0.00
	.05	-.024	.088	.028	.015	-.0008	.001	.05
	.10	-.022	.082	.020	.015	-.0009	.000	.10
	.20	-.017	.066	-.004	.009	-.0007	-.005	.20
	.30	-.011	.058	-.036	-.004	-.0004	-.013	.30
	.40	-.010	.081	-.053	-.024	-.0001	-.025	.40

15	-.40	-.035	.130	.089	.028	-.0002	.023	-.40
	-.30	-.017	.072	.041	.036	-.0005	.016	-.30
	-.20	-.012	.054	.021	.042	-.0008	.008	-.20
	-.10	-.012	.051	.018	.041	-.0008	.002	-.10
	-.05	-.013	.051	.020	.032	-.0009	.001	-.05
	0.00	-.010	.043	.019	.012	-.0009	.002	0.00
	0.00	-.009	.041	.018	.011	-.0009	.002	0.00
	.05	-.013	.053	.022	-.002	-.0008	.003	.05
	.10	-.012	.053	.020	-.011	-.0009	.001	.10
	.20	-.012	.056	.026	-.021	-.0006	-.011	.20
	.30	-.016	.074	.043	-.034	-.0005	-.028	.30
	.40	-.035	.131	.091	-.059	-.0002	-.050	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.038	.150	.071	.066	-.0004	.061	-.40
	-.30	-.016	.092	.039	.064	-.0005	.046	-.30
	-.20	-.012	.079	.026	.068	-.0008	.033	-.20
	-.10	-.013	.084	.027	.063	-.0009	.021	-.10
	-.05	-.014	.088	.027	.061	-.0009	.010	-.05
	0.00	-.013	.075	.027	.016	-.0009	.001	0.00
	0.00	-.013	.075	.027	.015	-.0009	.001	0.00
	.05	-.014	.087	.029	-.025	-.0009	-.006	.05
	.10	-.013	.085	.028	-.028	-.0009	-.018	.10
	.20	-.012	.084	.031	-.040	-.0007	-.035	.20
	.30	-.017	.097	.043	-.060	-.0004	-.057	.30
	.40	-.040	.147	.082	-.126	-.0004	-.083	.40
25	-.40	-.043	.192	.043	.111	-.0005	.087	-.40
	-.30	-.019	.113	.032	.094	-.0002	.071	-.30
	-.20	-.013	.106	.029	.091	-.0007	.053	-.20
	-.10	-.016	.113	.034	.074	-.0009	.039	-.10
	-.05	-.019	.119	.034	.069	-.0010	.030	-.05
	0.00	-.014	.108	.032	.049	-.0009	.011	0.00
	0.00	-.014	.107	.032	.049	-.0009	.011	0.00
	.05	-.019	.120	.036	-.032	-.0011	-.021	.05
	.10	-.016	.115	.035	-.040	-.0009	-.031	.10
	.20	-.013	.109	.032	-.072	-.0007	-.052	.20
	.30	-.017	.117	.035	-.105	-.0003	-.081	.30
	.40	-.042	.163	.055	-.236	-.0008	-.108	.40
30	-.40	-.067	.267	.023	.132	-.0012	.143	-.40
	-.30	-.025	.146	.024	.121	-.0004	.099	-.30
	-.20	-.013	.130	.025	.111	-.0007	.073	-.20
	-.10	-.013	.138	.039	.090	-.0010	.054	-.10
	-.05	-.014	.139	.041	.082	-.0011	.045	-.05
	0.00	-.013	.140	.040	.070	-.0010	.032	0.00
	0.00	-.014	.144	.042	.070	-.0011	.032	0.00
	.05	-.016	.144	.045	-.038	-.0011	-.022	.05
	.10	-.015	.138	.039	-.052	-.0011	-.045	.10
	.20	-.016	.138	.030	-.091	-.0009	-.073	.20
	.30	-.025	.152	.032	-.133	-.0008	-.105	.30
	.40	-.067	.191	.069	-.322	-.0031	-.134	.40
35	-.40	-.056	.307	.011	.176	-.0013	.136	-.40
	-.30	-.021	.181	.024	.135	-.0005	.114	-.30
	-.20	-.017	.168	.032	.114	-.0008	.090	-.20
	-.10	-.020	.184	.050	.086	-.0011	.066	-.10
	-.05	-.023	.190	.065	.077	-.0011	.056	-.05
	0.00	-.021	.183	.061	.074	-.0011	.050	0.00
	0.00	-.021	.184	.061	.073	-.0011	.050	0.00
	.05	-.024	.183	.054	.059	-.0011	.027	.05
	.10	-.022	.180	.048	-.054	-.0011	-.059	.10
	.20	-.021	.174	.037	-.096	-.0011	-.094	.20
	.30	-.028	.187	.032	-.149	-.0009	-.127	.30
	.40	-.062	.231	.045	-.351	-.0027	-.149	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.067	.339	.009	.186	-.0014	.136	-.40
	-.30	-.027	.222	.031	.149	-.0005	.115	-.30
	-.20	-.019	.208	.037	.127	-.0008	.090	-.20
	-.10	-.022	.219	.063	.094	-.0013	.064	-.10
	-.05	-.026	.228	.087	.077	-.0013	.053	-.05
	0.00	-.021	.215	.069	.068	-.0012	.045	0.00
	0.00	-.021	.215	.068	.065	-.0013	.045	0.00
	.05	-.026	.216	.063	.069	-.0011	.040	.05
	.10	-.024	.215	.058	-.039	-.0010	-.047	.10
	.20	-.022	.218	.047	-.102	-.0011	-.096	.20
	.30	-.029	.226	.039	-.149	-.0010	-.130	.30
	.40	-.066	.263	.046	-.392	-.0022	-.153	.40
45	-.40	-.087	.365	.006	.204	-.0015	.150	-.40
	-.30	-.037	.255	.044	.161	-.0006	.122	-.30
	-.20	-.021	.237	.050	.136	-.0009	.094	-.20
	-.10	-.021	.262	.107	.096	-.0014	.061	-.10
	-.05	-.022	.250	.087	.080	-.0013	.049	-.05
	0.00	-.019	.238	.075	.070	-.0011	.043	0.00
	0.00	-.020	.240	.074	.065	-.0011	.042	0.00
	.05	-.023	.243	.070	.048	-.0011	.027	.05
	.10	-.023	.242	.064	.035	-.0011	.018	.10
	.20	-.026	.242	.054	-.095	-.0012	-.094	.20
	.30	-.042	.259	.052	-.164	-.0014	-.133	.30
	.40	-.089	.286	.055	-.413	-.0032	-.168	.40
50	-.40	-.075	.393	.014	.196	-.0017	.148	-.40
	-.30	-.035	.276	.050	.172	-.0007	.129	-.30
	-.20	-.027	.280	.073	.120	-.0011	.088	-.20
	-.10	-.029	.294	.105	.074	-.0013	.056	-.10
	-.05	-.033	.287	.098	.060	-.0020	.044	-.05
	0.00	-.029	.286	.100	.081	-.0012	.056	0.00
	0.00	-.032	.286	.099	.077	-.0012	.055	0.00
	.05	-.035	.290	.092	.069	-.0010	.031	.05
	.10	-.033	.289	.089	-.027	-.0010	-.032	.10
	.20	-.030	.281	.074	-.078	-.0013	-.086	.20
	.30	-.038	.273	.054	-.167	-.0018	-.141	.30
	.40	-.071	.309	.065	-.396	-.0037	-.168	.40
55	-.40	-.086	.443	.085	.123	-.0014	.127	-.40
	-.30	-.042	.323	.074	.145	-.0008	.125	-.30
	-.20	-.028	.294	.071	.105	-.0012	.084	-.20
	-.10	-.029	.317	.112	.079	-.0015	.053	-.10
	-.05	-.032	.320	.122	.067	-.0015	.043	-.05
	0.00	-.029	.314	.118	.063	-.0013	.044	0.00
	0.00	-.031	.310	.118	.036	-.0013	.022	0.00
	.05	-.034	.318	.114	.036	-.0010	.017	.05
	.10	-.034	.319	.110	-.028	-.0009	-.041	.10
	.20	-.034	.322	.102	-.092	-.0008	-.100	.20
	.30	-.048	.319	.075	-.140	-.0014	-.134	.30
	.40	-.086	.362	.087	-.277	-.0032	-.130	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.091	.458	.060	.106	-.0014	.127	-.40
	-.30	-.047	.357	.077	.124	-.0010	.105	-.30
	-.20	-.031	.339	.113	.095	-.0014	.076	-.20
	-.10	-.029	.318	.103	.045	-.0015	.017	-.10
	-.05	-.030	.323	.110	.027	-.0015	-.000	-.05
	0.00	-.023	.321	.117	-.000	-.0015	-.022	0.00
	0.00	-.023	.319	.115	.001	-.0015	-.019	0.00
	.05	-.029	.332	.123	-.016	-.0013	-.036	.05
	.10	-.029	.334	.130	-.040	-.0012	-.056	.10
	.20	-.032	.334	.106	-.065	-.0009	-.078	.20
	.30	-.049	.364	.105	-.124	-.0020	-.130	.30
	.40	-.087	.395	.076	-.243	-.0025	-.135	.40
65	-.40	-.074	.473	.058	.100	-.0012	.125	-.40
	-.30	-.046	.397	.096	.096	-.0011	.102	-.30
	-.20	-.035	.354	.106	.098	-.0014	.076	-.20
	-.10	-.038	.347	.114	.070	-.0015	.043	-.10
	-.05	-.039	.346	.115	.052	-.0015	.024	-.05
	0.00	-.025	.343	.118	.034	-.0013	.009	0.00
	0.00	-.027	.342	.120	.026	-.0013	.006	0.00
	.05	-.043	.348	.116	.016	-.0012	-.008	.05
	.10	-.043	.351	.117	-.004	-.0011	-.028	.10
	.20	-.043	.367	.122	-.050	-.0012	-.072	.20
	.30	-.049	.388	.094	-.099	-.0016	-.119	.30
	.40	-.080	.436	.087	-.200	-.0033	-.137	.40
70	-.40	-.101	.470	.017	.058	-.0006	.114	-.40
	-.30	-.051	.387	.053	.083	-.0009	.100	-.30
	-.20	-.022	.350	.079	.074	-.0014	.072	-.20
	-.10	-.022	.350	.099	.058	-.0016	.040	-.10
	-.05	-.021	.349	.102	.045	-.0015	.024	-.05
	0.00	-.014	.344	.103	.032	-.0013	.008	0.00
	0.00	-.017	.350	.108	.032	-.0013	.009	0.00
	.05	-.023	.348	.099	.011	-.0011	-.013	.05
	.10	-.019	.347	.092	-.014	-.0010	-.036	.10
	.20	-.026	.359	.076	-.040	-.0009	-.065	.20
	.30	-.055	.402	.070	-.056	-.0015	-.098	.30
	.40	-.098	.464	.026	-.125	-.0019	-.128	.40
75	-.40	-.096	.471	.022	.049	-.0005	.116	-.40
	-.30	-.048	.406	.045	.054	-.0010	.089	-.30
	-.20	-.023	.370	.073	.063	-.0014	.065	-.20
	-.10	-.015	.354	.077	.052	-.0015	.035	-.10
	-.05	-.013	.353	.078	.041	-.0015	.018	-.05
	0.00	-.010	.356	.084	.024	-.0013	.001	0.00
	0.00	-.008	.352	.083	.024	-.0013	-.000	0.00
	.05	-.013	.353	.077	.014	-.0012	-.015	.05
	.10	-.016	.354	.077	-.000	-.0010	-.033	.10
	.20	-.028	.366	.067	-.031	-.0009	-.065	.20
	.30	-.052	.405	.045	-.048	-.0010	-.096	.30
	.40	-.103	.488	.031	-.083	-.0016	-.132	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.085	.461	-.010	.058	-.0008	.119	-.40
	-.30	-.036	.404	.013	.044	-.0010	.083	-.30
	-.20	-.018	.373	.055	.050	-.0014	.062	-.20
	-.10	-.010	.359	.057	.039	-.0014	.035	-.10
	-.05	-.007	.360	.055	.032	-.0014	.018	-.05
	0.00	-.001	.360	.058	.023	-.0012	.001	0.00
	0.00	-.006	.361	.058	.023	-.0012	.002	0.00
	.05	-.010	.361	.056	.020	-.0011	-.013	.05
	.10	-.011	.361	.057	.009	-.0010	-.030	.10
	.20	-.021	.378	.056	-.018	-.0010	-.060	.20
	.30	-.037	.407	.010	-.032	-.0010	-.086	.30
	.40	-.084	.482	-.005	-.069	-.0018	-.131	.40
85	-.40	-.069	.475	.003	.075	-.0013	.123	-.40
	-.30	-.029	.415	.021	.042	-.0013	.084	-.30
	-.20	-.011	.369	.031	.033	-.0013	.059	-.20
	-.10	-.007	.364	.031	.031	-.0013	.036	-.10
	-.05	-.007	.369	.029	.030	-.0012	.019	-.05
	0.00	-.002	.366	.027	.022	-.0012	.001	0.00
	0.00	-.003	.368	.030	.025	-.0012	.002	0.00
	.05	-.009	.368	.029	.023	-.0011	-.014	.05
	.10	-.011	.367	.032	.018	-.0010	-.031	.10
	.20	-.015	.366	.027	.000	-.0010	-.057	.20
	.30	-.035	.420	.027	-.023	-.0011	-.083	.30
	.40	-.079	.480	.012	-.053	-.0028	-.128	.40
90	-.40	-.057	.481	.015	.046	-.0014	.120	-.40
	-.30	-.025	.417	.015	.026	-.0013	.085	-.30
	-.20	-.006	.374	.007	.017	-.0012	.060	-.20
	-.10	-.004	.364	-.001	.018	-.0011	.037	-.10
	-.05	-.003	.366	-.001	.023	-.0011	.019	-.05
	0.00	-.000	.368	.002	.027	-.0011	.003	0.00
	0.00	-.001	.368	.001	.027	-.0011	.003	0.00
	.05	-.003	.363	-.000	.033	-.0011	-.013	.05
	.10	-.004	.366	.000	.033	-.0010	-.030	.10
	.20	-.008	.370	.006	.018	-.0010	-.057	.20
	.30	-.024	.422	.021	-.014	-.0010	-.082	.30
	.40	-.059	.483	.028	-.048	-.0021	-.125	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A1

BETA= 0

ALPHA	Ωb/2V	C _A	C _N	C _m	C _Y	C _l	C _n	Ωb/2V

0	-.40	.001	.07	.022	.012	.0005	.0061	-.40
	-.30	.000	.02	.002	.006	.0005	.0032	-.30
	-.20	-.001	.00	-.003	.003	.0004	.0016	-.20
	-.10	-.001	.01	-.001	.002	.0004	.0006	-.10
	-.05	-.001	.01	-.000	.001	.0004	.0004	-.05
	0.00	-.000	-.00	-.002	.000	.0003	.0005	0.00
	0.00	-.001	-.00	-.002	.000	.0004	.0005	0.00
	.05	-.000	.00	-.001	-.001	.0004	.0003	.05
	.10	-.001	.00	-.001	-.000	.0004	.0005	.10
	.20	-.000	.00	-.002	.000	.0004	.0014	.20
	.30	-.000	.02	.004	.001	.0004	.0026	.30
	.40	-.001	.07	.025	.004	.0004	.0046	.40

5	-.40	-.004	.08	.035	.010	.0004	.0082	-.40
	-.30	.002	.03	.015	.002	.0004	.0046	-.30
	-.20	.002	.01	.009	-.001	.0004	.0022	-.20
	-.10	.003	.01	.010	-.002	.0004	.0008	-.10
	-.05	.003	.01	.011	-.003	.0004	.0003	-.05
	0.00	.003	.01	.009	.000	.0003	.0002	0.00
	0.00	.003	.01	.009	.000	.0003	.0002	0.00
	.05	.003	.01	.012	.000	.0003	-.0001	.05
	.10	.003	.01	.011	.002	.0004	-.0001	.10
	.20	.003	.01	.012	.007	.0003	.0004	.20
	.30	.001	.03	.017	.014	.0003	.0016	.30
	.40	-.005	.08	.038	.024	.0001	.0036	.40

10	-.40	-.008	.10	.031	.001	.0003	.0053	-.40
	-.30	.003	.05	.014	-.002	.0005	.0028	-.30
	-.20	.004	.04	.015	-.004	.0006	.0014	-.20
	-.10	.005	.04	.019	-.003	.0005	.0007	-.10
	-.05	.005	.04	.021	-.003	.0006	.0004	-.05
	0.00	.005	.03	.019	-.001	.0004	.0004	0.00
	0.00	.005	.03	.019	-.002	.0004	.0005	0.00
	.05	.005	.03	.021	-.001	.0005	.0005	.05
	.10	.005	.03	.020	.001	.0004	.0008	.10
	.20	.005	.03	.017	.005	.0001	.0020	.20
	.30	.003	.06	.016	.010	-.0003	.0040	.30
	.40	-.008	.12	.032	.016	-.0005	.0066	.40

15	-.40	-.012	.16	.040	.005	.0006	.0004	-.40
	-.30	.001	.11	.022	-.000	.0007	.0002	-.30
	-.20	.004	.08	.020	-.003	.0008	-.0006	-.20
	-.10	.004	.08	.024	-.002	.0007	-.0005	-.10
	-.05	.004	.08	.027	-.003	.0007	-.0005	-.05
	0.00	.005	.07	.026	-.001	.0005	.0001	0.00
	0.00	.005	.07	.026	-.001	.0005	-.0000	0.00
	.05	.002	.08	.028	-.001	.0005	.0006	.05
	.10	.003	.08	.026	.001	.0003	.0010	.10
	.20	.004	.08	.022	.006	-.0000	.0029	.20
	.30	.001	.11	.022	.013	-.0005	.0050	.30
	.40	-.011	.16	.038	.021	-.0011	.0091	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.021	.24	.050	.002	.0009	-.0102	-.40
	-.30	-.002	.17	.035	-.005	.0011	-.0062	-.30
	-.20	.003	.15	.032	-.008	.0011	-.0033	-.20
	-.10	.000	.14	.034	-.006	.0009	-.0017	-.10
	-.05	-.001	.14	.034	-.004	.0008	-.0013	-.05
	0.00	.002	.13	.034	.001	.0006	-.0010	0.00
	0.00	.002	.13	.033	.000	.0005	-.0006	0.00
	.05	-.001	.14	.035	.001	.0004	.0003	.05
	.10	.001	.14	.034	.004	.0001	.0013	.10
	.20	.003	.14	.034	.010	-.0005	.0042	.20
	.30	-.003	.18	.036	.016	-.0010	.0093	.30
	.40	-.024	.25	.052	.025	-.0016	.0162	.40
25	-.40	-.023	.32	.033	.005	.0007	-.0208	-.40
	-.30	-.004	.24	.038	-.010	.0011	-.0113	-.30
	-.20	-.002	.20	.042	-.015	.0012	-.0051	-.20
	-.10	-.003	.20	.045	-.009	.0010	-.0024	-.10
	-.05	-.004	.20	.047	-.005	.0008	-.0017	-.05
	0.00	-.003	.19	.046	.003	.0005	-.0008	0.00
	0.00	-.004	.19	.046	.001	.0005	-.0003	0.00
	.05	-.006	.20	.049	.006	.0003	.0006	.05
	.10	-.005	.20	.047	.011	-.0000	.0018	.10
	.20	-.002	.20	.044	.020	-.0008	.0063	.20
	.30	-.003	.24	.040	.025	-.0015	.0148	.30
	.40	-.021	.31	.032	.025	-.0020	.0292	.40
30	-.40	-.026	.43	-.007	.018	.0011	-.0398	-.40
	-.30	-.006	.32	.043	-.013	.0014	-.0257	-.30
	-.20	-.002	.27	.057	-.031	.0015	-.0089	-.20
	-.10	-.006	.26	.060	-.020	.0012	-.0024	-.10
	-.05	-.007	.26	.060	-.006	.0009	-.0021	-.05
	0.00	-.004	.25	.055	.012	.0004	-.0021	0.00
	0.00	-.004	.24	.059	.014	.0004	-.0019	0.00
	.05	-.007	.26	.060	.023	.0001	.0001	.05
	.10	-.006	.25	.059	.031	-.0004	.0029	.10
	.20	-.001	.28	.059	.038	-.0011	.0148	.20
	.30	-.007	.33	.042	.026	-.0017	.0326	.30
	.40	-.028	.45	-.009	.011	-.0020	.0504	.40
35	-.40	-.042	.56	.020	.003	.0012	-.0362	-.40
	-.30	-.013	.46	.007	-.005	.0018	-.0423	-.30
	-.20	-.003	.37	.053	-.029	.0016	-.0316	-.20
	-.10	-.008	.33	.076	-.033	.0014	-.0065	-.10
	-.05	-.010	.32	.075	-.006	.0009	-.0034	-.05
	0.00	-.005	.32	.071	.035	.0002	.0006	0.00
	0.00	-.005	.32	.066	.027	.0002	.0002	0.00
	.05	-.007	.34	.069	.041	-.0002	.0127	.05
	.10	-.003	.35	.056	.039	-.0004	.0286	.10
	.20	-.005	.39	.047	.038	-.0010	.0396	.20
	.30	-.012	.47	-.003	.013	-.0012	.0503	.30
	.40	-.040	.58	.000	.012	-.0018	.0542	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.048	.63	.081	-.009	.0007	-.0129	-.40
	-.30	-.017	.55	.059	-.058	.0019	-.0064	-.30
	-.20	-.009	.50	.043	-.033	.0019	-.0378	-.20
	-.10	-.010	.42	.072	-.033	.0015	-.0238	-.10
	-.05	-.015	.39	.095	-.003	.0010	-.0037	-.05
	0.00	-.005	.41	.064	.026	.0005	.0244	0.00
	0.00	-.006	.41	.067	.031	.0005	.0217	0.00
	.05	-.008	.44	.054	.046	.0001	.0390	.05
	.10	-.008	.46	.061	.057	-.0005	.0396	.10
	.20	-.007	.52	.032	.034	-.0007	.0450	.20
	.30	-.016	.56	.057	.055	-.0018	.0216	.30
	.40	-.049	.66	.066	.001	-.0019	.0327	.40
45	-.40	-.049	.71	.080	.023	.0002	-.0045	-.40
	-.30	-.023	.63	.076	-.023	.0015	-.0075	-.30
	-.20	-.016	.60	.053	-.071	.0024	-.0046	-.20
	-.10	-.018	.52	.077	-.048	.0018	-.0290	-.10
	-.05	-.020	.47	.105	.008	.0009	.0013	-.05
	0.00	-.014	.50	.081	.061	.0002	.0289	0.00
	0.00	-.015	.50	.084	.062	.0001	.0268	0.00
	.05	-.018	.56	.057	.060	.0001	.0438	.05
	.10	-.016	.59	.054	.065	-.0003	.0337	.10
	.20	-.016	.61	.064	.064	-.0012	.0170	.20
	.30	-.021	.66	.075	.034	-.0017	.0141	.30
	.40	-.048	.72	.082	-.003	-.0018	.0133	.40
50	-.40	-.064	.77	.073	.065	-.0005	.0066	-.40
	-.30	-.031	.70	.086	.013	.0008	-.0109	-.30
	-.20	-.019	.64	.086	-.029	.0017	-.0185	-.20
	-.10	-.019	.62	.082	-.066	.0020	-.0242	-.10
	-.05	-.020	.53	.126	.014	.0008	.0036	-.05
	0.00	-.016	.57	.096	.075	.0000	.0332	0.00
	0.00	-.016	.57	.088	.079	-.0001	.0331	0.00
	.05	-.021	.63	.074	.071	-.0002	.0303	.05
	.10	-.021	.63	.083	.058	-.0005	.0280	.10
	.20	-.021	.67	.091	.026	-.0008	.0227	.20
	.30	-.031	.71	.093	-.004	-.0011	.0135	.30
	.40	-.063	.78	.087	-.027	-.0014	.0031	.40
55	-.40	-.064	.73	.062	.090	-.0001	.0308	-.40
	-.30	-.038	.74	.104	.040	.0007	.0044	-.30
	-.20	-.031	.69	.112	-.002	.0013	-.0121	-.20
	-.10	-.034	.65	.117	-.037	.0015	-.0249	-.10
	-.05	-.035	.63	.125	-.027	.0012	-.0181	-.05
	0.00	-.030	.62	.114	.064	-.0002	.0331	0.00
	0.00	-.030	.63	.118	.065	-.0003	.0349	0.00
	.05	-.032	.65	.115	.050	-.0004	.0313	.05
	.10	-.031	.67	.117	.033	-.0006	.0276	.10
	.20	-.031	.70	.114	-.003	-.0007	.0131	.20
	.30	-.039	.73	.095	-.038	-.0009	-.0048	.30
	.40	-.069	.77	.064	-.053	-.0012	-.0244	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.066	.74	.057	.100	.0000	.0535	-.40
	-.30	-.043	.73	.114	.062	.0007	.0274	-.30
	-.20	-.037	.70	.140	.021	.0011	.0046	-.20
	-.10	-.040	.67	.157	-.023	.0013	-.0181	-.10
	-.05	-.042	.65	.162	-.037	.0012	-.0238	-.05
	0.00	-.036	.63	.159	.049	-.0003	.0299	0.00
	0.00	-.038	.64	.159	.046	-.0003	.0302	0.00
	.05	-.041	.66	.156	.029	-.0004	.0236	.05
	.10	-.040	.67	.155	.016	-.0005	.0170	.10
	.20	-.038	.70	.140	-.018	-.0006	-.0019	.20
	.30	-.042	.73	.105	-.049	-.0007	-.0244	.30
	.40	-.064	.73	.049	-.067	-.0007	-.0466	.40
65	-.40	-.043	.78	.016	.057	.0003	.0470	-.40
	-.30	-.044	.70	.104	.085	.0007	.0576	-.30
	-.20	-.040	.69	.147	.044	.0008	.0316	-.20
	-.10	-.046	.67	.165	.011	.0008	.0107	-.10
	-.05	-.048	.66	.171	-.002	.0007	.0014	-.05
	0.00	-.042	.65	.180	.021	-.0001	.0133	0.00
	0.00	-.043	.66	.173	.018	-.0000	.0124	0.00
	.05	-.048	.66	.171	.009	-.0002	.0062	.05
	.10	-.046	.67	.166	-.011	-.0003	-.0079	.10
	.20	-.044	.70	.150	-.037	-.0005	-.0270	.20
	.30	-.048	.70	.096	-.068	-.0005	-.0489	.30
	.40	-.046	.75	-.003	-.038	.0003	-.0419	.40
70	-.40	-.040	.76	-.057	.048	.0006	.0515	-.40
	-.30	-.035	.73	.079	.034	.0005	.0340	-.30
	-.20	-.045	.70	.144	.046	.0005	.0414	-.20
	-.10	-.046	.68	.161	.018	.0006	.0193	-.10
	-.05	-.047	.68	.163	.010	.0005	.0111	-.05
	0.00	-.042	.68	.165	-.002	.0004	-.0004	0.00
	0.00	-.042	.66	.163	-.003	.0003	-.0001	0.00
	.05	-.048	.67	.162	-.015	.0001	-.0098	.05
	.10	-.047	.67	.158	-.022	-.0000	-.0181	.10
	.20	-.047	.69	.140	-.052	-.0001	-.0432	.20
	.30	-.034	.74	.069	-.026	.0003	-.0347	.30
	.40	-.040	.77	-.062	-.022	.0011	-.0487	.40
75	-.40	-.040	.82	-.126	.032	.0008	.0560	-.40
	-.30	-.018	.68	-.020	.027	.0008	.0386	-.30
	-.20	-.015	.67	.059	.010	.0003	.0213	-.20
	-.10	-.034	.66	.124	.008	.0005	.0144	-.10
	-.05	-.037	.66	.137	.004	.0004	.0079	-.05
	0.00	-.036	.66	.143	-.002	.0004	.0004	0.00
	0.00	-.034	.66	.138	-.003	.0004	-.0004	0.00
	.05	-.036	.66	.133	-.010	.0004	-.0086	.05
	.10	-.032	.66	.120	-.015	.0004	-.0159	.10
	.20	-.019	.68	.065	-.017	.0005	-.0244	.20
	.30	-.022	.70	-.010	-.023	.0009	-.0363	.30
	.40	-.047	.83	-.127	-.012	.0018	-.0533	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.034	.83	-.127	.022	.0008	.0539	-.40
	-.30	-.012	.70	-.045	.021	.0007	.0404	-.30
	-.20	-.010	.67	.012	.008	.0010	.0235	-.20
	-.10	-.018	.64	.041	-.002	.0009	.0094	-.10
	-.05	-.020	.63	.044	-.005	.0009	.0038	-.05
	0.00	-.019	.63	.050	.002	.0008	.0011	0.00
	0.00	-.020	.64	.055	-.002	.0008	-.0002	0.00
	.05	-.021	.64	.043	-.004	.0009	-.0047	.05
	.10	-.018	.65	.034	-.004	.0009	-.0102	.10
	.20	-.012	.67	.004	-.010	.0010	-.0252	.20
	.30	-.009	.71	-.063	-.011	.0017	-.0386	.30
	.40	-.031	.84	-.149	.003	.0025	-.0514	.40
85	-.40	-.020	.85	-.111	.009	.0005	.0546	-.40
	-.30	-.002	.81	-.089	.002	.0010	.0459	-.30
	-.20	-.000	.68	-.041	.004	.0010	.0281	-.20
	-.10	-.003	.63	-.023	-.002	.0012	.0131	-.10
	-.05	-.003	.63	-.020	-.003	.0013	.0060	-.05
	0.00	-.000	.62	-.027	-.004	.0013	-.0001	0.00
	0.00	-.004	.62	-.022	-.003	.0012	-.0002	0.00
	.05	-.004	.62	-.022	-.005	.0014	-.0061	.05
	.10	-.003	.65	-.027	-.007	.0014	-.0137	.10
	.20	-.000	.68	-.054	-.008	.0017	-.0273	.20
	.30	-.005	.77	-.092	-.002	.0022	-.0431	.30
	.40	-.026	.82	-.114	-.003	.0024	-.0513	.40
90	-.40	-.008	.82	-.097	.003	.0008	.0525	-.40
	-.30	.003	.76	-.101	-.009	.0008	.0429	-.30
	-.20	-.000	.69	-.080	-.010	.0011	.0284	-.20
	-.10	-.000	.63	-.073	-.007	.0012	.0130	-.10
	-.05	-.000	.61	-.070	-.007	.0013	.0059	-.05
	0.00	-.001	.62	-.074	-.002	.0015	.0006	0.00
	0.00	-.002	.60	-.067	-.000	.0014	.0004	0.00
	.05	-.001	.61	-.073	-.002	.0015	-.0054	.05
	.10	.000	.63	-.078	-.000	.0017	-.0126	.10
	.20	.001	.69	-.090	.006	.0021	-.0294	.20
	.30	.007	.78	-.113	.009	.0028	-.0433	.30
	.40	.002	.85	-.127	.015	.0033	-.0539	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.007	.07	.023	.019	.0007	.0045	-.40
	-.30	.008	.02	-.002	.010	.0007	.0024	-.30
	-.20	.007	.00	-.006	.004	.0007	.0011	-.20
	-.10	.007	.00	-.005	.002	.0007	.0004	-.10
	-.05	.007	.00	-.003	.000	.0007	.0004	-.05
	0.00	.006	-.00	-.006	.002	.0007	.0007	0.00
	0.00	.006	-.00	-.006	.002	.0007	.0008	0.00
	.05	.007	.00	-.003	.000	.0007	.0003	.05
	.10	.007	.00	-.003	.001	.0007	.0004	.10
	.20	.007	-.00	-.005	.002	.0007	.0014	.20
	.30	.007	.02	.002	.005	.0006	.0021	.30
	.40	.006	.07	.027	.010	.0006	.0040	.40

5	-.40	.003	.09	.047	-.005	.0008	.0046	-.40
	-.30	.007	.03	.017	-.003	.0008	.0028	-.30
	-.20	.008	.01	.008	-.002	.0008	.0017	-.20
	-.10	.008	.01	.008	.001	.0008	.0011	-.10
	-.05	.008	.01	.009	.001	.0007	.0009	-.05
	0.00	.009	.00	.006	.002	.0007	.0006	0.00
	0.00	.009	.00	.006	.002	.0007	.0007	0.00
	.05	.009	.01	.009	.001	.0007	.0001	.05
	.10	.009	.01	.009	.002	.0008	-.0002	.10
	.20	.009	.01	.010	.004	.0007	-.0001	.20
	.30	.006	.03	.020	.006	.0007	-.0001	.30
	.40	.001	.10	.050	.010	.0006	.0006	.40

10	-.40	-.000	.12	.049	.003	.0009	.0033	-.40
	-.30	.008	.06	.022	-.002	.0009	.0019	-.30
	-.20	.011	.04	.017	-.005	.0009	.0010	-.20
	-.10	.009	.04	.019	-.003	.0009	.0008	-.10
	-.05	.009	.04	.022	-.003	.0008	.0006	-.05
	0.00	.009	.03	.019	.001	.0007	.0009	0.00
	0.00	.009	.03	.018	.001	.0007	.0009	0.00
	.05	.009	.04	.022	-.000	.0008	.0009	.05
	.10	.010	.04	.020	.001	.0007	.0010	.10
	.20	.011	.04	.019	.005	.0006	.0021	.20
	.30	.009	.06	.021	.010	.0003	.0033	.30
	.40	-.000	.12	.049	.019	.0000	.0050	.40

15	-.40	-.017	.22	.078	.002	.0014	-.0021	-.40
	-.30	.002	.14	.045	-.003	.0013	-.0010	-.30
	-.20	.008	.10	.034	-.004	.0012	-.0005	-.20
	-.10	.009	.09	.033	-.002	.0010	.0000	-.10
	-.05	.008	.09	.034	-.001	.0009	.0002	-.05
	0.00	.011	.08	.030	.001	.0007	.0003	0.00
	0.00	.011	.08	.030	.001	.0007	.0003	0.00
	.05	.009	.08	.034	.001	.0007	.0008	.05
	.10	.009	.08	.033	.003	.0005	.0013	.10
	.20	.008	.10	.036	.007	.0002	.0025	.20
	.30	.001	.14	.046	.011	-.0001	.0044	.30
	.40	-.018	.22	.081	.020	-.0006	.0084	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.013	.27	.085	-.003	.0016	-.0197	-.40
	-.30	.007	.19	.064	-.011	.0016	-.0111	-.30
	-.20	.010	.15	.055	-.012	.0015	-.0042	-.20
	-.10	.008	.15	.052	-.007	.0012	-.0008	-.10
	-.05	.007	.15	.054	-.004	.0009	-.0004	-.05
	0.00	.010	.14	.052	.002	.0007	-.0002	0.00
	0.00	.010	.14	.052	.002	.0008	.0001	0.00
	.05	.007	.15	.056	.002	.0006	.0008	.05
	.10	.008	.15	.056	.008	.0003	.0018	.10
	.20	.010	.16	.059	.016	-.0002	.0054	.20
	.30	.006	.19	.067	.021	-.0007	.0130	.30
	.40	-.014	.28	.088	.021	-.0008	.0252	.40
25	-.40	-.022	.39	.078	.016	.0014	-.0382	-.40
	-.30	.004	.27	.076	-.008	.0016	-.0277	-.30
	-.20	.009	.22	.078	-.025	.0017	-.0104	-.20
	-.10	.007	.20	.076	-.023	.0014	-.0013	-.10
	-.05	.004	.20	.075	-.014	.0011	-.0002	-.05
	0.00	.008	.19	.073	.003	.0007	-.0001	0.00
	0.00	.007	.19	.072	.002	.0008	-.0003	0.00
	.05	.004	.20	.076	.010	.0005	.0011	.05
	.10	.007	.20	.078	.022	.0000	.0020	.10
	.20	.010	.22	.081	.032	-.0006	.0113	.20
	.30	.005	.27	.080	.022	-.0009	.0291	.30
	.40	-.020	.40	.066	.000	-.0009	.0474	.40
30	-.40	-.033	.51	.073	.043	.0014	-.0506	-.40
	-.30	-.001	.40	.054	.009	.0020	-.0453	-.30
	-.20	.008	.31	.095	-.027	.0019	-.0305	-.20
	-.10	.004	.28	.100	-.042	.0016	-.0070	-.10
	-.05	.002	.27	.097	-.028	.0013	-.0012	-.05
	0.00	.004	.26	.092	.007	.0007	-.0010	0.00
	0.00	.004	.26	.093	.005	.0007	-.0000	0.00
	.05	.004	.27	.097	.028	.0003	.0019	.05
	.10	.006	.27	.099	.043	-.0003	.0091	.10
	.20	.008	.31	.094	.031	-.0007	.0329	.20
	.30	.000	.42	.028	-.018	-.0002	.0589	.30
	.40	-.035	.54	.050	-.033	-.0002	.0676	.40
35	-.40	-.045	.60	.165	.020	.0007	-.0334	-.40
	-.30	-.005	.49	.134	-.034	.0018	-.0161	-.30
	-.20	.004	.43	.073	-.009	.0019	-.0496	-.20
	-.10	.006	.37	.108	-.044	.0019	-.0290	-.10
	-.05	.002	.34	.115	-.043	.0016	-.0088	-.05
	0.00	.003	.32	.117	.015	.0006	-.0001	0.00
	0.00	.003	.32	.114	.006	.0008	-.0009	0.00
	.05	.003	.34	.116	.042	.0001	.0113	.05
	.10	.007	.37	.105	.042	-.0001	.0317	.10
	.20	.003	.45	.067	-.003	-.0002	.0568	.20
	.30	-.006	.52	.103	-.010	-.0004	.0506	.30
	.40	-.042	.61	.182	.028	-.0017	.0282	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.046	.69	.205	.032	.0008	-.0097	-.40
	-.30	-.012	.60	.161	-.025	.0019	-.0069	-.30
	-.20	.002	.54	.122	-.082	.0026	-.0047	-.20
	-.10	-.000	.47	.106	-.051	.0020	-.0462	-.10
	-.05	.001	.44	.111	-.049	.0016	-.0344	-.05
	0.00	.001	.39	.134	.014	.0006	.0009	0.00
	0.00	.002	.39	.135	.011	.0006	-.0000	0.00
	.05	.002	.44	.114	.050	.0002	.0368	.05
	.10	.002	.47	.111	.049	-.0002	.0472	.10
	.20	.005	.56	.120	.068	-.0008	.0093	.20
	.30	-.010	.60	.165	.040	-.0012	.0148	.30
	.40	-.047	.70	.217	-.007	-.0013	.0198	.40
45	-.40	-.048	.74	.197	.067	.0004	.0052	-.40
	-.30	-.014	.68	.189	.026	.0011	-.0141	-.30
	-.20	-.005	.65	.156	-.016	.0018	-.0234	-.20
	-.10	-.006	.60	.122	-.073	.0022	-.0301	-.10
	-.05	-.007	.55	.110	-.049	.0017	-.0462	-.05
	0.00	-.005	.48	.149	.024	.0005	.0087	0.00
	0.00	-.003	.48	.141	.025	.0005	.0129	0.00
	.05	-.004	.57	.111	.047	.0004	.0556	.05
	.10	-.002	.61	.124	.070	-.0002	.0301	.10
	.20	-.005	.66	.171	.017	-.0005	.0284	.20
	.30	-.016	.69	.201	-.021	-.0007	.0189	.30
	.40	-.052	.76	.194	-.059	-.0006	.0022	.40
50	-.40	-.049	.79	.211	.070	.0004	.0220	-.40
	-.30	-.019	.73	.201	.041	.0008	-.0003	-.30
	-.20	-.012	.70	.193	.009	.0013	-.0179	-.20
	-.10	-.015	.64	.168	-.047	.0019	-.0301	-.10
	-.05	-.015	.62	.135	-.050	.0017	-.0360	-.05
	0.00	-.013	.54	.166	.024	.0005	.0166	0.00
	0.00	-.013	.52	.175	.035	.0003	.0126	0.00
	.05	-.016	.63	.151	.050	.0002	.0377	.05
	.10	-.014	.66	.173	.035	-.0001	.0337	.10
	.20	-.013	.69	.200	-.002	-.0004	.0223	.20
	.30	-.018	.74	.188	-.041	-.0003	.0044	.30
	.40	-.047	.78	.206	-.061	-.0005	-.0211	.40
55	-.40	-.048	.80	.186	.085	.0004	.0424	-.40
	-.30	-.021	.77	.219	.060	.0008	.0194	-.30
	-.20	-.014	.74	.217	.023	.0012	-.0053	-.20
	-.10	-.018	.69	.208	-.019	.0016	-.0270	-.10
	-.05	-.022	.65	.191	-.046	.0017	-.0319	-.05
	0.00	-.016	.58	.218	.035	.0002	.0168	0.00
	0.00	-.016	.58	.221	.031	.0002	.0158	0.00
	.05	-.019	.67	.201	.043	-.0001	.0376	.05
	.10	-.016	.70	.210	.010	.0001	.0253	.10
	.20	-.014	.74	.216	-.020	-.0002	.0051	.20
	.30	-.022	.77	.222	-.054	-.0003	-.0191	.30
	.40	-.052	.82	.195	-.069	-.0005	-.0420	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.055	.76	.117	.068	.0010	.0540	-.40
	-.30	-.028	.77	.213	.051	.0010	.0325	-.30
	-.20	-.014	.74	.233	.022	.0011	.0081	-.20
	-.10	-.016	.69	.232	-.017	.0013	-.0165	-.10
	-.05	-.019	.64	.233	-.036	.0013	-.0252	-.05
	0.00	-.014	.61	.231	.038	.0001	.0208	0.00
	0.00	-.010	.61	.225	.038	.0000	.0227	0.00
	.05	-.013	.65	.225	.030	-.0002	.0280	.05
	.10	-.011	.69	.231	.014	-.0004	.0178	.10
	.20	-.013	.73	.232	-.025	-.0003	-.0100	.20
	.30	-.028	.77	.205	-.053	-.0002	-.0317	.30
	.40	-.059	.76	.114	-.073	.0001	-.0556	.40
65	-.40	-.039	.72	.035	.063	.0002	.0581	-.40
	-.30	-.026	.73	.172	.060	.0004	.0478	-.30
	-.20	-.019	.73	.223	.029	.0006	.0253	-.20
	-.10	-.024	.69	.236	-.001	.0007	.0003	-.10
	-.05	-.027	.66	.232	-.017	.0008	-.0090	-.05
	0.00	-.017	.64	.241	.027	-.0001	.0151	0.00
	0.00	-.019	.65	.241	.032	-.0002	.0192	0.00
	.05	-.027	.67	.235	.016	-.0003	.0122	.05
	.10	-.025	.71	.242	-.000	-.0004	-.0003	.10
	.20	-.022	.74	.233	-.027	-.0007	-.0233	.20
	.30	-.024	.74	.166	-.050	-.0008	-.0432	.30
	.40	-.036	.74	.015	-.049	-.0004	-.0566	.40
70	-.40	-.037	.82	-.001	.050	.0006	.0628	-.40
	-.30	-.016	.71	.110	.040	.0006	.0432	-.30
	-.20	-.018	.70	.197	.034	.0007	.0370	-.20
	-.10	-.021	.68	.216	.010	.0006	.0149	-.10
	-.05	-.024	.67	.222	.001	.0006	.0060	-.05
	0.00	-.017	.67	.219	-.000	.0003	.0015	0.00
	0.00	-.018	.67	.223	.005	.0002	.0051	0.00
	.05	-.021	.67	.217	-.003	.0001	-.0032	.05
	.10	-.019	.69	.219	-.009	-.0002	-.0105	.10
	.20	-.019	.71	.195	-.031	-.0004	-.0345	.20
	.30	-.017	.70	.102	-.030	-.0001	-.0413	.30
	.40	-.042	.81	-.010	-.028	.0004	-.0588	.40
75	-.40	-.049	.85	-.035	.041	.0010	.0644	-.40
	-.30	-.010	.70	.034	.036	.0010	.0483	-.30
	-.20	-.002	.68	.115	.017	.0011	.0275	-.20
	-.10	-.012	.67	.182	.013	.0007	.0189	-.10
	-.05	-.012	.67	.192	.007	.0007	.0101	-.05
	0.00	-.012	.67	.198	.003	.0005	.0019	0.00
	0.00	-.013	.67	.196	.002	.0005	.0004	0.00
	.05	-.016	.67	.192	-.007	.0004	-.0087	.05
	.10	-.014	.67	.182	-.016	.0003	-.0192	.10
	.20	.003	.68	.101	-.016	.0005	-.0269	.20
	.30	-.009	.69	.028	-.030	.0007	-.0458	.30
	.40	-.041	.85	-.065	-.018	.0013	-.0612	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.030	.89	-.061	.031	.0013	.0663	-.40
	-.30	.003	.82	-.024	.022	.0015	.0528	-.30
	-.20	.006	.70	.063	.015	.0012	.0317	-.20
	-.10	-.003	.66	.101	.001	.0011	.0122	-.10
	-.05	-.009	.65	.117	.001	.0010	.0072	-.05
	0.00	-.006	.64	.125	-.000	.0007	.0007	0.00
	0.00	-.006	.64	.117	-.001	.0008	.0009	0.00
	.05	-.004	.65	.117	-.004	.0008	-.0055	.05
	.10	.001	.66	.094	-.006	.0009	-.0118	.10
	.20	.005	.69	.061	-.018	.0010	-.0305	.20
	.30	.003	.79	-.025	-.018	.0016	-.0481	.30
	.40	-.035	.84	-.067	-.010	.0017	-.0586	.40
85	-.40	-.019	.88	-.030	.021	.0015	.0654	-.40
	-.30	.006	.84	-.016	.011	.0014	.0521	-.30
	-.20	.011	.71	.009	.008	.0013	.0347	-.20
	-.10	.004	.66	.035	.003	.0013	.0170	-.10
	-.05	.003	.64	.041	-.000	.0013	.0082	-.05
	0.00	.007	.64	.041	-.001	.0013	.0010	0.00
	0.00	.005	.64	.037	.001	.0012	.0014	0.00
	.05	-.000	.65	.040	-.004	.0012	-.0067	.05
	.10	.002	.67	.033	-.007	.0012	-.0158	.10
	.20	.010	.71	-.001	-.009	.0016	-.0330	.20
	.30	.011	.85	-.038	-.006	.0021	-.0502	.30
	.40	-.012	.88	-.042	-.009	.0021	-.0616	.40
90	-.40	-.001	.90	-.023	.013	.0014	.0656	-.40
	-.30	.013	.80	-.031	.001	.0014	.0513	-.30
	-.20	.016	.74	-.025	-.003	.0014	.0365	-.20
	-.10	.014	.66	-.021	-.002	.0015	.0166	-.10
	-.05	.014	.64	-.019	-.001	.0016	.0083	-.05
	0.00	.014	.63	-.014	-.000	.0016	.0014	0.00
	0.00	.016	.63	-.026	.001	.0016	.0014	0.00
	.05	.017	.63	-.022	.000	.0017	-.0056	.05
	.10	.017	.65	-.027	.000	.0018	-.0143	.10
	.20	.017	.73	-.038	.003	.0021	-.0328	.20
	.30	.016	.81	-.056	.005	.0025	-.0488	.30
	.40	-.004	.91	-.033	-.003	.0025	-.0628	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.002	.07	.024	.018	.0009	.0080	-.40
	-.30	.002	.02	-.002	.006	.0009	.0041	-.30
	-.20	.002	.00	-.007	.001	.0009	.0018	-.20
	-.10	.002	.00	-.005	-.002	.0010	.0006	-.10
	-.05	.002	.00	-.004	-.003	.0010	.0004	-.05
	0.00	.002	-.00	-.006	-.003	.0010	.0007	0.00
	0.00	.002	-.00	-.006	-.002	.0010	.0009	0.00
	.05	.002	.00	-.003	-.006	.0010	.0003	.05
	.10	.002	.00	-.004	-.006	.0010	.0005	.10
	.20	.002	.00	-.005	-.002	.0009	.0020	.20
	.30	.002	.02	.002	.005	.0009	.0043	.30
	.40	.001	.08	.028	.016	.0008	.0081	.40

5	-.40	-.003	.09	.038	.004	.0009	.0086	-.40
	-.30	.002	.03	.013	-.003	.0010	.0049	-.30
	-.20	.004	.01	.007	-.005	.0010	.0027	-.20
	-.10	.004	.02	.008	-.005	.0010	.0014	-.10
	-.05	.004	.02	.009	-.005	.0010	.0006	-.05
	0.00	.004	.01	.006	-.002	.0010	.0004	0.00
	0.00	.005	.01	.006	-.004	.0010	.0004	0.00
	.05	.004	.01	.010	-.001	.0010	.0002	.05
	.10	.004	.01	.009	-.000	.0010	.0000	.10
	.20	.004	.01	.008	.003	.0008	.0009	.20
	.30	.003	.03	.015	.008	.0008	.0021	.30
	.40	-.002	.09	.041	.014	.0007	.0043	.40

10	-.40	-.007	.12	.052	.003	.0012	.0065	-.40
	-.30	.004	.06	.023	-.003	.0011	.0034	-.30
	-.20	.006	.04	.017	-.006	.0011	.0021	-.20
	-.10	.005	.04	.018	-.005	.0011	.0010	-.10
	-.05	.005	.04	.020	-.005	.0010	.0007	-.05
	0.00	.006	.03	.016	-.004	.0010	.0007	0.00
	0.00	.007	.03	.017	-.004	.0010	.0009	0.00
	.05	.006	.04	.020	-.006	.0010	.0005	.05
	.10	.006	.04	.018	-.004	.0009	.0010	.10
	.20	.006	.04	.019	.001	.0007	.0025	.20
	.30	.003	.06	.024	.009	.0005	.0052	.30
	.40	-.008	.13	.053	.023	.0003	.0088	.40

15	-.40	-.010	.18	.064	.002	.0014	.0008	-.40
	-.30	.003	.11	.036	-.006	.0014	.0005	-.30
	-.20	.006	.09	.028	-.009	.0014	.0001	-.20
	-.10	.005	.09	.030	-.007	.0012	-.0002	-.10
	-.05	.004	.09	.031	-.007	.0011	-.0001	-.05
	0.00	.007	.08	.028	-.004	.0010	.0002	0.00
	0.00	.007	.08	.028	-.003	.0010	.0001	0.00
	.05	.006	.09	.030	-.003	.0010	.0008	.05
	.10	.006	.08	.029	-.001	.0008	.0011	.10
	.20	.006	.09	.030	.006	.0004	.0031	.20
	.30	.003	.12	.036	.014	.0000	.0064	.30
	.40	-.012	.19	.066	.026	-.0006	.0116	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.018	.28	.078	.000	.0016	-.0165	-.40
	-.30	.002	.19	.058	-.013	.0017	-.0093	-.30
	-.20	.005	.16	.050	-.015	.0017	-.0038	-.20
	-.10	.004	.15	.048	-.013	.0014	-.0013	-.10
	-.05	.003	.15	.049	-.009	.0012	-.0010	-.05
	0.00	.006	.14	.045	-.001	.0010	-.0005	0.00
	0.00	.004	.14	.045	-.003	.0010	-.0002	0.00
	.05	.002	.15	.050	.002	.0008	.0007	.05
	.10	.004	.15	.049	.008	.0005	.0017	.10
	.20	.005	.16	.052	.019	-.0001	.0064	.20
	.30	.002	.19	.057	.026	-.0006	.0156	.30
	.40	-.018	.28	.075	.032	-.0009	.0289	.40
25	-.40	-.025	.38	.059	.001	.0018	-.0373	-.40
	-.30	.001	.27	.071	-.015	.0018	-.0233	-.30
	-.20	.005	.22	.070	-.026	.0020	-.0088	-.20
	-.10	.002	.20	.068	-.021	.0016	-.0016	-.10
	-.05	-.000	.20	.068	-.014	.0013	-.0002	-.05
	0.00	.003	.19	.063	.001	.0009	-.0006	0.00
	0.00	.003	.19	.065	-.001	.0010	-.0004	0.00
	.05	-.001	.20	.067	.008	.0007	.0003	.05
	.10	.001	.20	.067	.021	.0003	.0023	.10
	.20	.005	.22	.068	.029	-.0004	.0142	.20
	.30	.000	.28	.063	.024	-.0006	.0326	.30
	.40	-.026	.39	.051	.014	-.0009	.0500	.40
30	-.40	-.040	.50	.062	.019	.0018	-.0437	-.40
	-.30	-.006	.40	.048	.002	.0021	-.0430	-.30
	-.20	.003	.31	.086	-.029	.0021	-.0253	-.20
	-.10	-.001	.28	.091	-.040	.0018	-.0049	-.10
	-.05	-.003	.28	.089	-.026	.0015	-.0010	-.05
	0.00	-.001	.26	.082	.002	.0008	-.0004	0.00
	0.00	-.001	.27	.084	-.002	.0009	-.0002	0.00
	.05	-.003	.27	.089	.021	.0004	.0014	.05
	.10	-.000	.28	.092	.034	-.0001	.0075	.10
	.20	.002	.32	.077	.032	-.0006	.0345	.20
	.30	-.007	.42	.022	.000	-.0005	.0574	.30
	.40	-.040	.55	.013	-.019	-.0007	.0729	.40
35	-.40	-.042	.58	.142	-.005	.0018	-.0217	-.40
	-.30	-.009	.49	.084	-.005	.0023	-.0376	-.30
	-.20	-.001	.40	.090	-.027	.0023	-.0377	-.20
	-.10	-.003	.35	.107	-.042	.0019	-.0131	-.10
	-.05	-.007	.34	.110	-.018	.0014	-.0036	-.05
	0.00	-.003	.33	.103	.028	.0006	.0024	0.00
	0.00	-.003	.33	.103	.032	.0006	.0022	0.00
	.05	-.003	.35	.101	.037	.0002	.0148	.05
	.10	-.000	.37	.095	.036	-.0001	.0315	.10
	.20	-.002	.45	.069	.023	-.0005	.0524	.20
	.30	-.008	.51	.077	.027	-.0007	.0471	.30
	.40	-.042	.60	.122	.046	-.0016	.0442	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A1

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
40	-.40	-.047	.68	.178	-.003	.0017	-.0062	-.40
	-.30	-.018	.59	.135	-.045	.0024	-.0045	-.30
	-.20	-.008	.55	.100	-.027	.0024	-.0354	-.20
	-.10	-.010	.46	.108	-.036	.0020	-.0349	-.10
	-.05	-.014	.42	.129	-.018	.0014	-.0110	-.05
	0.00	-.009	.42	.124	.029	.0006	.0135	0.00
	0.00	-.008	.42	.126	.025	.0006	.0141	0.00
	.05	-.010	.46	.110	.052	.0002	.0375	.05
	.10	-.010	.48	.114	.058	-.0004	.0424	.10
	.20	-.006	.57	.107	.066	-.0008	.0295	.20
	.30	-.017	.61	.123	.060	-.0013	.0196	.30
	.40	-.047	.68	.164	.022	-.0017	.0235	.40
45	-.40	-.060	.75	.183	.039	.0011	-.0052	-.40
	-.30	-.023	.69	.162	.014	.0017	-.0174	-.30
	-.20	-.013	.64	.129	-.041	.0025	-.0140	-.20
	-.10	-.012	.58	.110	-.046	.0022	-.0401	-.10
	-.05	-.015	.50	.144	-.034	.0017	-.0209	-.05
	0.00	-.013	.49	.148	.034	.0004	.0139	0.00
	0.00	-.012	.48	.142	.035	.0005	.0135	0.00
	.05	-.013	.56	.115	.056	.0002	.0435	.05
	.10	-.011	.61	.116	.056	-.0002	.0356	.10
	.20	-.013	.64	.135	.041	-.0006	.0222	.20
	.30	-.025	.70	.164	-.015	-.0007	.0258	.30
	.40	-.064	.78	.195	-.056	-.0009	.0112	.40
50	-.40	-.065	.79	.185	.071	.0008	.0144	-.40
	-.30	-.031	.75	.184	.030	.0014	-.0063	-.30
	-.20	-.019	.69	.160	-.002	.0018	-.0187	-.20
	-.10	-.021	.65	.137	-.051	.0023	-.0232	-.10
	-.05	-.021	.57	.162	-.048	.0018	-.0221	-.05
	0.00	-.018	.53	.182	.030	.0003	.0096	0.00
	0.00	-.019	.53	.183	.031	.0003	.0083	0.00
	.05	-.021	.62	.139	.051	.0002	.0340	.05
	.10	-.020	.65	.149	.047	-.0003	.0266	.10
	.20	-.020	.71	.167	-.001	-.0002	.0232	.20
	.30	-.029	.75	.181	-.025	-.0004	.0132	.30
	.40	-.062	.81	.191	-.045	-.0007	-.0085	.40
55	-.40	-.066	.79	.155	.082	.0006	.0393	-.40
	-.30	-.035	.74	.178	.053	.0011	.0141	-.30
	-.20	-.023	.71	.184	.019	.0015	-.0073	-.20
	-.10	-.026	.65	.179	-.028	.0019	-.0261	-.10
	-.05	-.029	.62	.179	-.040	.0018	-.0237	-.05
	0.00	-.023	.57	.211	.026	.0002	.0087	0.00
	0.00	-.023	.59	.212	.026	.0002	.0104	0.00
	.05	-.027	.64	.191	.047	-.0003	.0289	.05
	.10	-.025	.66	.183	.029	-.0003	.0252	.10
	.20	-.024	.72	.185	-.010	-.0002	.0089	.20
	.30	-.034	.76	.182	-.043	-.0004	-.0107	.30
	.40	-.069	.83	.182	-.068	-.0006	-.0340	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.078	.73	.115	.091	.0010	.0595	-.40
	-.30	-.044	.74	.176	.065	.0012	.0344	-.30
	-.20	-.028	.72	.204	.025	.0015	.0075	-.20
	-.10	-.028	.68	.216	-.017	.0017	-.0158	-.10
	-.05	-.030	.64	.216	-.034	.0015	-.0219	-.05
	0.00	-.025	.62	.216	.039	.0001	.0210	0.00
	0.00	-.027	.63	.224	.034	.0001	.0193	0.00
	.05	-.030	.64	.222	.028	-.0004	.0198	.05
	.10	-.028	.67	.210	.014	-.0003	.0141	.10
	.20	-.029	.74	.207	-.021	-.0002	-.0060	.20
	.30	-.043	.76	.179	-.050	-.0003	-.0320	.30
	.40	-.076	.75	.101	-.063	-.0000	-.0534	.40
65	-.40	-.041	.73	.023	.061	.0013	.0548	-.40
	-.30	-.044	.71	.172	.075	.0013	.0530	-.30
	-.20	-.035	.71	.214	.040	.0013	.0300	-.20
	-.10	-.040	.68	.226	.001	.0014	.0032	-.10
	-.05	-.043	.67	.228	-.013	.0013	-.0067	-.05
	0.00	-.029	.65	.218	.026	.0003	.0143	0.00
	0.00	-.031	.65	.222	.024	.0002	.0142	0.00
	.05	-.040	.66	.225	.014	-.0001	.0078	.05
	.10	-.037	.68	.215	-.003	-.0001	-.0046	.10
	.20	-.036	.71	.211	-.033	-.0002	-.0286	.20
	.30	-.043	.70	.159	-.061	-.0001	-.0517	.30
	.40	-.047	.73	.014	-.044	.0008	-.0531	.40
70	-.40	-.050	.82	-.019	.049	.0016	.0598	-.40
	-.30	-.029	.71	.103	.040	.0014	.0401	-.30
	-.20	-.036	.70	.196	.049	.0012	.0450	-.20
	-.10	-.034	.69	.210	.018	.0010	.0200	-.10
	-.05	-.036	.68	.213	.009	.0009	.0107	-.05
	0.00	-.029	.68	.217	.001	.0006	.0001	0.00
	0.00	-.030	.68	.220	.005	.0005	.0026	0.00
	.05	-.037	.68	.214	-.006	.0003	-.0065	.05
	.10	-.036	.69	.210	-.015	.0002	-.0167	.10
	.20	-.038	.70	.191	-.039	.0001	-.0413	.20
	.30	-.026	.71	.087	-.025	.0008	-.0396	.30
	.40	-.045	.82	-.024	-.021	.0017	-.0587	.40
75	-.40	-.056	.85	-.047	.035	.0017	.0600	-.40
	-.30	-.021	.70	.029	.035	.0016	.0448	-.30
	-.20	-.007	.68	.094	.017	.0015	.0264	-.20
	-.10	-.028	.68	.179	.020	.0010	.0206	-.10
	-.05	-.029	.67	.184	.011	.0009	.0103	-.05
	0.00	-.027	.68	.189	.000	.0008	-.0006	0.00
	0.00	-.026	.67	.188	-.002	.0007	-.0025	0.00
	.05	-.028	.67	.181	-.008	.0007	-.0097	.05
	.10	-.028	.67	.176	-.017	.0006	-.0201	.10
	.20	-.011	.68	.096	-.015	.0009	-.0258	.20
	.30	-.024	.70	.012	-.029	.0014	-.0446	.30
	.40	-.063	.86	-.069	-.024	.0022	-.0603	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.048	.86	-.065	.028	.0017	.0605	-.40
	-.30	-.011	.79	-.027	.023	.0016	.0488	-.30
	-.20	-.006	.69	.050	.016	.0014	.0305	-.20
	-.10	-.013	.66	.087	.002	.0013	.0117	-.10
	-.05	-.017	.65	.103	.000	.0012	.0049	-.05
	0.00	-.015	.64	.106	.003	.0011	.0013	0.00
	0.00	-.012	.64	.097	.004	.0011	.0016	0.00
	.05	-.015	.65	.095	-.001	.0011	-.0038	.05
	.10	-.012	.67	.083	-.004	.0012	-.0109	.10
	.20	-.006	.70	.041	-.015	.0014	-.0300	.20
	.30	-.009	.82	-.039	-.018	.0020	-.0497	.30
	.40	-.043	.86	-.082	-.008	.0024	-.0585	.40
85	-.40	-.031	.86	-.057	.018	.0018	.0606	-.40
	-.30	-.005	.84	-.029	.010	.0017	.0503	-.30
	-.20	.005	.71	-.008	.007	.0016	.0332	-.20
	-.10	-.000	.67	.022	.004	.0015	.0160	-.10
	-.05	-.000	.64	.023	.001	.0015	.0075	-.05
	0.00	.005	.63	.018	-.000	.0016	.0005	0.00
	0.00	.004	.63	.018	.001	.0015	.0007	0.00
	.05	.001	.64	.021	-.005	.0015	-.0069	.05
	.10	.001	.65	.020	-.007	.0015	-.0152	.10
	.20	.002	.71	-.013	-.011	.0019	-.0326	.20
	.30	-.006	.83	-.050	-.009	.0025	-.0485	.30
	.40	-.035	.88	-.069	-.005	.0028	-.0595	.40
90	-.40	-.020	.87	-.040	.014	.0015	.0609	-.40
	-.30	.001	.79	-.048	-.005	.0015	.0494	-.30
	-.20	.006	.73	-.040	-.012	.0015	.0330	-.20
	-.10	.006	.66	-.037	-.013	.0016	.0143	-.10
	-.05	.007	.64	-.034	-.013	.0017	.0062	-.05
	0.00	.006	.63	-.034	-.010	.0018	-.0004	0.00
	0.00	.005	.63	-.031	-.011	.0018	-.0002	0.00
	.05	.005	.64	-.035	-.011	.0018	-.0074	.05
	.10	.006	.66	-.040	-.009	.0019	-.0152	.10
	.20	.007	.72	-.052	-.001	.0023	-.0322	.20
	.30	.004	.80	-.055	.005	.0026	-.0466	.30
	.40	-.013	.89	-.050	.007	.0029	-.0594	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	.029	.07	.029	.013	-.0000	.0049	-.40
	-.30	.029	.00	.002	.008	.0002	.0025	-.30
	-.20	.030	-.02	-.006	.004	.0002	.0012	-.20
	-.10	.030	-.02	-.006	.002	.0003	.0002	-.10
	-.05	.030	-.01	-.005	.003	.0003	.0001	-.05
	0.00	.029	-.02	-.007	.004	.0003	.0001	0.00
	0.00	.030	-.02	-.007	.004	.0003	.0002	0.00
	.05	.030	-.01	-.004	.001	.0002	-.0002	.05
	.10	.029	-.02	-.005	.003	.0002	.0000	.10
	.20	.029	-.01	-.005	.006	.0002	.0010	.20
	.30	.029	.01	.004	.010	.0003	.0020	.30
	.40	.028	.07	.031	.016	.0002	.0038	.40

5	-.40	.027	.07	.044	.014	.0001	.0074	-.40
	-.30	.032	.01	.015	.005	.0002	.0043	-.30
	-.20	.034	-.01	.005	.001	.0003	.0025	-.20
	-.10	.033	-.01	.003	.000	.0002	.0008	-.10
	-.05	.033	-.01	.004	.001	.0003	.0003	-.05
	0.00	.034	-.01	.001	.005	.0002	.0001	0.00
	0.00	.034	-.01	.001	.005	.0002	.0002	0.00
	.05	.033	-.01	.003	.006	.0003	-.0001	.05
	.10	.034	-.01	.003	.008	.0002	-.0002	.10
	.20	.034	-.01	.006	.011	.0003	-.0007	.20
	.30	.032	.01	.016	.015	.0002	.0000	.30
	.40	.027	.07	.045	.022	-.0001	.0008	.40

10	-.40	.020	.09	.052	.007	.0004	.0031	-.40
	-.30	.033	.03	.020	.004	.0004	.0019	-.30
	-.20	.036	.01	.012	.002	.0003	.0019	-.20
	-.10	.036	.01	.009	.002	.0002	.0011	-.10
	-.05	.035	.01	.009	.003	.0003	.0008	-.05
	0.00	.037	.00	.006	.004	.0003	.0007	0.00
	0.00	.036	.00	.006	.004	.0003	.0007	0.00
	.05	.035	.01	.010	.001	.0002	.0004	.05
	.10	.035	.01	.010	.002	.0001	.0007	.10
	.20	.036	.01	.013	.007	.0002	.0010	.20
	.30	.034	.03	.021	.011	.0003	.0022	.30
	.40	.022	.10	.053	.019	.0003	.0037	.40

15	-.40	.014	.14	.053	.018	.0008	.0029	-.40
	-.30	.032	.07	.023	.009	.0006	.0017	-.30
	-.20	.037	.05	.015	.003	.0004	.0007	-.20
	-.10	.037	.05	.015	.001	.0002	.0000	-.10
	-.05	.036	.05	.016	.001	.0002	-.0002	-.05
	0.00	.037	.04	.014	.005	.0002	-.0004	0.00
	0.00	.036	.04	.014	.004	.0002	-.0005	0.00
	.05	.036	.05	.016	.003	.0002	-.0002	.05
	.10	.037	.04	.015	.006	.0001	-.0003	.10
	.20	.036	.05	.018	.008	.0001	.0005	.20
	.30	.031	.07	.024	.010	.0001	.0021	.30
	.40	.012	.14	.053	.013	.0002	.0044	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	.006	.18	.065	.017	.0010	.0002	-.40
	-.30	.029	.12	.035	.010	.0007	.0007	-.30
	-.20	.037	.09	.024	.007	.0005	-.0004	-.20
	-.10	.036	.08	.023	.005	.0003	-.0013	-.10
	-.05	.035	.08	.023	.006	.0002	-.0017	-.05
	0.00	.036	.08	.021	.005	.0002	-.0022	0.00
	0.00	.036	.08	.022	.005	.0002	-.0022	0.00
	.05	.035	.08	.024	.004	.0001	-.0019	.05
	.10	.036	.08	.024	.005	-.0000	-.0018	.10
	.20	.037	.09	.028	.007	-.0001	-.0002	.20
	.30	.030	.12	.038	.011	.0001	.0023	.30
	.40	.006	.19	.070	.019	.0002	.0050	.40
25	-.40	.002	.23	.061	.012	.0010	.0001	-.40
	-.30	.026	.16	.038	.010	.0008	.0018	-.30
	-.20	.029	.14	.030	.011	.0005	-.0004	-.20
	-.10	.029	.13	.032	.011	.0003	-.0025	-.10
	-.05	.027	.13	.034	.012	.0002	-.0027	-.05
	0.00	.029	.13	.033	.014	.0001	-.0028	0.00
	0.00	.029	.13	.033	.014	.0001	-.0027	0.00
	.05	.026	.13	.036	.015	.0000	-.0020	.05
	.10	.027	.13	.036	.015	-.0001	-.0016	.10
	.20	.023	.14	.038	.017	-.0002	-.0001	.20
	.30	.027	.16	.042	.016	.0000	.0031	.30
	.40	.005	.24	.063	.017	.0003	.0074	.40
30	-.40	-.004	.29	.070	.004	.0008	-.0115	-.40
	-.30	.023	.21	.057	-.003	.0007	.0022	-.30
	-.20	.029	.18	.039	.013	.0006	.0044	-.20
	-.10	.028	.18	.040	.023	.0004	.0020	-.10
	-.05	.027	.18	.041	.029	.0002	.0024	-.05
	0.00	.030	.18	.038	.035	.0001	.0035	0.00
	0.00	.030	.17	.039	.032	.0001	.0029	0.00
	.05	.027	.18	.044	.031	-.0000	.0040	.05
	.10	.028	.18	.046	.033	-.0002	.0043	.10
	.20	.029	.18	.051	.031	-.0003	.0045	.20
	.30	.024	.22	.052	.026	-.0002	.0099	.30
	.40	-.007	.31	.060	.024	.0000	.0179	.40
35	-.40	-.018	.39	.062	.015	.0013	-.0116	-.40
	-.30	.015	.28	.059	-.004	.0010	-.0178	-.30
	-.20	.028	.23	.053	.000	.0007	.0038	-.20
	-.10	.031	.23	.041	.025	.0005	.0141	-.10
	-.05	.031	.23	.037	.030	.0003	.0177	-.05
	0.00	.037	.23	.034	.036	.0002	.0214	0.00
	0.00	.037	.24	.029	.037	.0002	.0234	0.00
	.05	.032	.24	.039	.034	.0001	.0214	.05
	.10	.032	.24	.040	.035	.0000	.0221	.10
	.20	.030	.25	.049	.033	-.0001	.0200	.20
	.30	.017	.30	.051	.032	-.0000	.0200	.30
	.40	-.018	.40	.066	.026	.0004	.0079	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.023	.46	.096	-.005	.0015	.0103	-.40
	-.30	.012	.38	.066	-.045	.0012	.0071	-.30
	-.20	.025	.32	.052	-.028	.0007	-.0203	-.20
	-.10	.024	.28	.061	-.007	.0004	-.0065	-.10
	-.05	.024	.28	.058	.014	.0002	.0050	-.05
	0.00	.029	.29	.048	.034	.0000	.0174	0.00
	0.00	.028	.28	.048	.037	-.0000	.0174	0.00
	.05	.026	.29	.050	.037	-.0001	.0195	.05
	.10	.027	.30	.050	.042	-.0001	.0216	.10
	.20	.026	.31	.054	.040	-.0002	.0198	.20
	.30	.013	.38	.061	.069	.0001	-.0090	.30
	.40	-.023	.47	.094	.044	.0006	-.0131	.40
45	-.40	-.021	.53	.104	.079	.0012	-.0050	-.40
	-.30	.011	.47	.070	-.004	.0012	-.0120	-.30
	-.20	.020	.42	.058	-.054	.0007	-.0110	-.20
	-.10	.015	.37	.064	-.056	.0004	-.0157	-.10
	-.05	.013	.34	.070	-.034	.0002	-.0131	-.05
	0.00	.015	.33	.073	.005	-.0001	-.0018	0.00
	0.00	.015	.33	.072	.025	-.0001	.0038	0.00
	.05	.013	.34	.072	.040	-.0003	.0096	.05
	.10	.017	.35	.067	.055	-.0004	.0148	.10
	.20	.019	.41	.056	.078	-.0003	.0013	.20
	.30	.013	.46	.067	.027	.0002	.0035	.30
	.40	-.021	.52	.097	.002	.0006	-.0068	.40
50	-.40	-.035	.57	.090	.103	.0011	.0142	-.40
	-.30	.003	.52	.087	.031	.0010	-.0038	-.30
	-.20	.016	.48	.080	-.003	.0005	-.0169	-.20
	-.10	.016	.44	.064	-.047	.0005	-.0233	-.10
	-.05	.014	.39	.070	-.049	.0003	-.0193	-.05
	0.00	.016	.37	.085	.008	-.0001	-.0011	0.00
	0.00	.017	.37	.088	.015	-.0001	.0009	0.00
	.05	.013	.39	.080	.048	-.0003	.0122	.05
	.10	.017	.43	.062	.068	-.0003	.0153	.10
	.20	.014	.47	.077	.025	-.0003	.0115	.20
	.30	.001	.50	.085	-.019	.0000	-.0021	.30
	.40	-.034	.54	.067	-.023	.0005	-.0252	.40
55	-.40	-.043	.56	.066	.119	.0017	.0340	-.40
	-.30	-.002	.53	.085	.039	.0011	.0133	-.30
	-.20	.015	.52	.086	.017	.0005	-.0052	-.20
	-.10	.017	.48	.084	-.016	.0003	-.0200	-.10
	-.05	.016	.45	.082	-.039	.0001	-.0237	-.05
	0.00	.018	.41	.100	.026	-.0002	.0048	0.00
	0.00	.017	.40	.103	.020	-.0002	.0028	0.00
	.05	.016	.45	.083	.055	-.0002	.0225	.05
	.10	.017	.47	.082	.040	-.0002	.0204	.10
	.20	.014	.50	.082	.001	-.0001	.0038	.20
	.30	-.001	.52	.070	-.026	.0002	-.0167	.30
	.40	-.040	.54	.042	-.037	.0008	-.0477	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.031	.56	.036	.194	.0013	.0574	-.40
	-.30	-.001	.54	.086	.060	.0009	.0313	-.30
	-.20	.005	.52	.107	.013	.0005	.0031	-.20
	-.10	.001	.49	.104	-.012	.0001	-.0138	-.10
	-.05	-.002	.47	.102	-.026	-.0000	-.0205	-.05
	0.00	-.000	.44	.112	.017	-.0003	.0034	0.00
	0.00	-.002	.46	.106	.039	-.0004	.0147	0.00
	.05	-.001	.47	.103	.041	-.0003	.0212	.05
	.10	.002	.48	.104	.028	-.0003	.0134	.10
	.20	.003	.50	.097	-.004	-.0003	-.0085	.20
	.30	-.001	.51	.076	-.034	.0001	-.0341	.30
	.40	-.027	.52	.019	-.071	.0008	-.0752	.40
65	-.40	-.038	.55	-.003	.180	.0013	.0781	-.40
	-.30	-.008	.52	.069	.084	.0006	.0564	-.30
	-.20	.003	.51	.103	.040	.0003	.0284	-.20
	-.10	.000	.50	.118	.010	.0000	.0053	-.10
	-.05	-.003	.49	.117	-.007	-.0001	-.0063	-.05
	0.00	.006	.47	.117	.015	-.0004	.0029	0.00
	0.00	.007	.47	.120	.026	-.0004	.0079	0.00
	.05	-.001	.49	.116	.023	-.0004	.0056	.05
	.10	.001	.50	.113	.011	-.0006	-.0048	.10
	.20	.001	.50	.099	-.030	-.0006	-.0345	.20
	.30	-.007	.52	.055	-.066	-.0001	-.0647	.30
	.40	-.036	.55	-.007	-.082	.0008	-.0910	.40
70	-.40	-.033	.64	-.096	.112	.0016	.0665	-.40
	-.30	-.011	.54	.047	.085	.0007	.0646	-.30
	-.20	.011	.52	.086	.051	.0004	.0420	-.20
	-.10	.015	.49	.109	.030	-.0000	.0207	-.10
	-.05	.016	.48	.110	.012	-.0002	.0050	-.05
	0.00	.021	.48	.113	.010	-.0003	-.0010	0.00
	0.00	.019	.48	.116	.009	-.0004	-.0019	0.00
	.05	.012	.48	.110	.005	-.0005	-.0055	.05
	.10	.011	.48	.104	-.008	-.0005	-.0188	.10
	.20	.007	.47	.080	-.035	-.0004	-.0455	.20
	.30	-.013	.52	.032	-.054	.0002	-.0693	.30
	.40	-.028	.63	-.107	-.006	.0019	-.0728	.40
75	-.40	-.026	.66	-.083	.099	.0009	.0687	-.40
	-.30	.011	.56	-.033	.038	.0008	.0513	-.30
	-.20	.010	.51	.072	.047	.0003	.0435	-.20
	-.10	.005	.50	.102	.028	.0000	.0228	-.10
	-.05	.006	.50	.100	.016	-.0001	.0101	-.05
	0.00	.010	.49	.099	.021	-.0002	.0023	0.00
	0.00	.009	.49	.099	.016	-.0002	-.0009	0.00
	.05	.007	.50	.098	-.001	-.0002	-.0106	.05
	.10	.006	.51	.095	-.010	-.0003	-.0220	.10
	.20	.007	.51	.071	-.025	-.0001	-.0426	.20
	.30	.011	.54	-.035	-.006	.0008	-.0503	.30
	.40	-.027	.65	-.090	-.003	.0017	-.0735	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4/3A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.015	.66	-.097	.086	.0009	.0669	-.40
	-.30	.018	.60	-.037	.033	.0007	.0554	-.30
	-.20	.014	.51	.044	.035	.0002	.0445	-.20
	-.10	.014	.52	.062	.021	.0002	.0228	-.10
	-.05	.013	.50	.067	.013	.0001	.0104	-.05
	0.00	.011	.52	.064	.004	-.0000	-.0036	0.00
	0.00	.010	.51	.065	.009	-.0001	-.0009	0.00
	.05	.011	.51	.067	.004	.0001	-.0103	.05
	.10	.013	.52	.060	-.004	.0001	-.0217	.10
	.20	.014	.51	.039	-.012	.0002	-.0413	.20
	.30	.025	.60	-.056	-.004	.0009	-.0561	.30
	.40	-.009	.66	-.097	-.001	.0013	-.0705	.40
85	-.40	.023	.67	-.053	.048	.0006	.0682	-.40
	-.30	.030	.62	-.035	.034	.0005	.0559	-.30
	-.20	.031	.51	-.034	.014	.0006	.0401	-.20
	-.10	.016	.49	.004	.010	.0005	.0177	-.10
	-.05	.011	.48	.014	.009	.0003	.0086	-.05
	0.00	.009	.48	.019	.010	.0003	.0007	0.00
	0.00	.008	.48	.023	.010	.0002	.0006	0.00
	.05	.013	.48	.014	.009	.0003	-.0075	.05
	.10	.016	.49	.007	.009	.0004	-.0162	.10
	.20	.031	.52	-.039	.009	.0008	-.0380	.20
	.30	.030	.63	-.052	.007	.0009	-.0597	.30
	.40	.019	.67	-.066	.003	.0011	-.0705	.40
90	-.40	.024	.66	-.054	.047	.0004	.0679	-.40
	-.30	.034	.60	-.051	.031	.0005	.0541	-.30
	-.20	.035	.55	-.056	.012	.0006	.0405	-.20
	-.10	.032	.47	-.051	.004	.0006	.0201	-.10
	-.05	.031	.46	-.051	.007	.0006	.0097	-.05
	0.00	.032	.46	-.050	.008	.0006	.0005	0.00
	0.00	.033	.46	-.053	.007	.0006	.0000	0.00
	.05	.034	.46	-.050	.012	.0006	-.0077	.05
	.10	.035	.47	-.053	.015	.0008	-.0175	.10
	.20	.036	.53	-.056	.020	.0009	-.0387	.20
	.30	.040	.60	-.070	.023	.0011	-.0558	.30
	.40	.029	.69	-.068	.010	.0012	-.0705	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.013	.08	.021	-.005	-.0004	.0192	-.40
	-.30	-.013	.02	-.001	-.015	-.0004	.0104	-.30
	-.20	-.014	.01	-.002	-.020	-.0006	.0048	-.20
	-.10	-.014	.01	.005	-.024	-.0006	.0017	-.10
	-.05	-.015	.01	.007	-.023	-.0006	.0011	-.05
	0.00	-.012	.00	.004	-.022	-.0005	.0011	0.00
	0.00	-.012	.00	.004	-.022	-.0005	.0011	0.00
	.05	-.013	.01	.008	-.025	-.0006	.0008	.05
	.10	-.013	.01	.006	-.023	-.0006	.0016	.10
	.20	-.013	.00	.000	-.020	-.0006	.0047	.20
	.30	-.013	.02	.002	-.018	-.0005	.0098	.30
	.40	-.014	.07	.025	-.014	-.0006	.0174	.40

5	-.40	-.017	.09	.051	-.020	-.0009	.0210	-.40
	-.30	-.013	.03	.020	-.025	-.0005	.0124	-.30
	-.20	-.013	.01	.013	-.027	-.0005	.0064	-.20
	-.10	-.013	.01	.015	-.026	-.0005	.0027	-.10
	-.05	-.013	.01	.017	-.025	-.0005	.0018	-.05
	0.00	-.014	.01	.014	-.024	-.0006	.0015	0.00
	0.00	-.013	.01	.013	-.024	-.0006	.0014	0.00
	.05	-.013	.01	.018	-.026	-.0006	.0008	.05
	.10	-.013	.01	.016	-.023	-.0006	.0013	.10
	.20	-.012	.01	.016	-.018	-.0007	.0040	.20
	.30	-.013	.03	.023	-.012	-.0006	.0086	.30
	.40	-.018	.09	.055	-.002	-.0007	.0158	.40

10	-.40	-.023	.11	.070	-.014	-.0006	.0190	-.40
	-.30	-.011	.05	.031	-.023	-.0006	.0109	-.30
	-.20	-.009	.03	.023	-.027	-.0006	.0059	-.20
	-.10	-.010	.03	.024	-.030	-.0005	.0034	-.10
	-.05	-.010	.03	.026	-.029	-.0006	.0026	-.05
	0.00	-.008	.03	.023	-.027	-.0005	.0026	0.00
	0.00	-.008	.03	.022	-.027	-.0005	.0026	0.00
	.05	-.010	.03	.026	-.030	-.0006	.0024	.05
	.10	-.010	.03	.025	-.028	-.0006	.0033	.10
	.20	-.009	.03	.024	-.022	-.0006	.0067	.20
	.30	-.011	.05	.030	-.014	-.0006	.0116	.30
	.40	-.022	.12	.068	-.004	-.0008	.0188	.40

15	-.40	-.026	.15	.085	-.017	-.0005	.0178	-.40
	-.30	-.011	.08	.046	-.024	-.0005	.0108	-.30
	-.20	-.008	.07	.037	-.029	-.0004	.0063	-.20
	-.10	-.009	.07	.038	-.030	-.0005	.0034	-.10
	-.05	-.011	.07	.039	-.029	-.0005	.0027	-.05
	0.00	-.009	.06	.034	-.028	-.0005	.0024	0.00
	0.00	-.006	.06	.034	-.027	-.0005	.0024	0.00
	.05	-.008	.06	.037	-.030	-.0006	.0024	.05
	.10	-.007	.06	.036	-.027	-.0007	.0030	.10
	.20	-.007	.07	.038	-.025	-.0007	.0062	.20
	.30	-.012	.09	.048	-.022	-.0008	.0113	.30
	.40	-.031	.16	.091	-.013	-.0008	.0189	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.022	.22	.086	.004	-.0028	.0094	-.40
	-.30	-.012	.15	.059	-.022	-.0018	.0064	-.30
	-.20	-.014	.13	.051	-.034	-.0013	.0033	-.20
	-.10	-.018	.13	.054	-.036	-.0010	.0002	-.10
	-.05	-.021	.13	.056	-.033	-.0010	-.0004	-.05
	0.00	-.019	.12	.054	-.030	-.0010	.0002	0.00
	0.00	-.017	.12	.053	-.029	-.0010	-.0000	0.00
	.05	-.022	.13	.057	-.031	-.0011	.0009	.05
	.10	-.020	.13	.055	-.027	-.0013	.0022	.10
	.20	-.016	.13	.053	-.016	-.0018	.0073	.20
	.30	-.014	.15	.060	-.003	-.0025	.0163	.30
	.40	-.025	.22	.090	.025	-.0035	.0303	.40
25	-.40	-.037	.33	.117	.017	-.0033	-.0061	-.40
	-.30	-.016	.23	.077	-.011	-.0021	-.0147	-.30
	-.20	-.010	.18	.068	-.040	-.0015	-.0124	-.20
	-.10	-.014	.17	.069	-.051	-.0010	-.0058	-.10
	-.05	-.017	.17	.069	-.045	-.0009	-.0036	-.05
	0.00	-.014	.16	.066	-.034	-.0011	-.0027	0.00
	0.00	-.014	.16	.068	-.031	-.0011	-.0022	0.00
	.05	-.017	.16	.071	-.025	-.0013	-.0013	.05
	.10	-.015	.16	.073	-.011	-.0016	-.0002	.10
	.20	-.013	.17	.081	.010	-.0022	.0102	.20
	.30	-.017	.21	.096	.010	-.0028	.0284	.30
	.40	-.041	.33	.119	.013	-.0036	.0470	.40
30	-.40	-.045	.40	.177	-.008	-.0039	.0183	-.40
	-.30	-.019	.32	.114	-.021	-.0025	-.0149	-.30
	-.20	-.014	.27	.078	-.036	-.0016	-.0314	-.20
	-.10	-.016	.24	.074	-.054	-.0010	-.0297	-.10
	-.05	-.018	.23	.077	-.051	-.0009	-.0196	-.05
	0.00	-.017	.21	.082	-.033	-.0011	-.0076	0.00
	0.00	-.015	.21	.082	-.034	-.0011	-.0079	0.00
	.05	-.023	.21	.089	-.009	-.0012	-.0010	.05
	.10	-.020	.22	.090	.013	-.0016	.0082	.10
	.20	-.014	.25	.086	.013	-.0020	.0347	.20
	.30	-.019	.33	.099	.005	-.0027	.0414	.30
	.40	-.046	.44	.144	.007	-.0039	.0526	.40
35	-.40	-.057	.48	.215	.024	-.0044	.0060	-.40
	-.30	-.024	.40	.172	-.046	-.0028	-.0004	-.30
	-.20	-.015	.35	.124	-.070	-.0017	-.0076	-.20
	-.10	-.012	.32	.082	-.060	-.0010	-.0400	-.10
	-.05	-.015	.29	.081	-.058	-.0009	-.0359	-.05
	0.00	-.013	.26	.091	-.031	-.0011	-.0158	0.00
	0.00	-.012	.26	.090	-.030	-.0011	-.0129	0.00
	.05	-.015	.27	.090	.007	-.0011	.0193	.05
	.10	-.012	.30	.082	.020	-.0012	.0394	.10
	.20	-.013	.35	.122	.043	-.0024	.0193	.20
	.30	-.023	.40	.170	.041	-.0035	.0167	.30
	.40	-.061	.49	.236	.021	-.0053	.0254	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.047	.54	.202	.067	-.0046	.0049	-.40
	-.30	-.018	.48	.188	-.006	-.0032	-.0182	-.30
	-.20	-.019	.43	.169	-.042	-.0020	-.0279	-.20
	-.10	-.022	.42	.106	-.119	-.0007	-.0134	-.10
	-.05	-.023	.39	.095	-.097	-.0007	-.0272	-.05
	0.00	-.025	.32	.112	-.030	-.0011	-.0102	0.00
	0.00	-.025	.32	.111	-.018	-.0012	-.0055	0.00
	.05	-.025	.36	.101	.030	-.0011	.0320	.05
	.10	-.020	.41	.106	.060	-.0014	.0197	.10
	.20	-.016	.44	.160	.044	-.0025	.0292	.20
	.30	-.017	.49	.167	.001	-.0034	.0323	.30
	.40	-.048	.56	.202	.009	-.0050	.0266	.40
45	-.40	-.057	.59	.264	.080	-.0050	.0335	-.40
	-.30	-.025	.52	.227	-.002	-.0034	-.0097	-.30
	-.20	-.019	.53	.172	-.027	-.0020	-.0443	-.20
	-.10	-.020	.50	.150	-.056	-.0013	-.0440	-.10
	-.05	-.023	.46	.111	-.100	-.0008	-.0336	-.05
	0.00	-.021	.37	.126	-.016	-.0012	-.0001	0.00
	0.00	-.022	.38	.125	.007	-.0013	.0058	0.00
	.05	-.019	.46	.113	.067	-.0012	.0300	.05
	.10	-.018	.48	.150	.041	-.0016	.0428	.10
	.20	-.020	.50	.188	.017	-.0025	.0463	.20
	.30	-.025	.54	.216	-.001	-.0038	.0207	.30
	.40	-.063	.60	.253	-.021	-.0054	-.0115	.40
50	-.40	-.063	.63	.267	.145	-.0045	.0671	-.40
	-.30	-.030	.60	.262	.038	-.0032	.0213	-.30
	-.20	-.024	.57	.227	-.032	-.0022	-.0133	-.20
	-.10	-.025	.54	.192	-.073	-.0016	-.0433	-.10
	-.05	-.026	.50	.159	-.083	-.0013	-.0452	-.05
	0.00	-.019	.44	.147	.026	-.0013	.0268	0.00
	0.00	-.021	.44	.141	.018	-.0012	.0222	0.00
	.05	-.026	.51	.166	.038	-.0015	.0457	.05
	.10	-.024	.55	.187	.016	-.0018	.0390	.10
	.20	-.025	.53	.224	.016	-.0029	.0269	.20
	.30	-.031	.57	.245	-.032	-.0039	-.0097	.30
	.40	-.069	.63	.270	-.071	-.0054	-.0482	.40
55	-.40	-.052	.61	.188	.170	-.0038	.0923	-.40
	-.30	-.025	.59	.253	.088	-.0031	.0576	-.30
	-.20	-.025	.60	.268	.010	-.0025	.0048	-.20
	-.10	-.030	.58	.235	-.052	-.0018	-.0245	-.10
	-.05	-.034	.52	.180	-.061	-.0013	-.0322	-.05
	0.00	-.026	.51	.174	.034	-.0014	.0373	0.00
	0.00	-.027	.50	.170	.035	-.0014	.0358	0.00
	.05	-.031	.56	.209	.030	-.0019	.0342	.05
	.10	-.029	.57	.230	.019	-.0022	.0278	.10
	.20	-.027	.58	.256	-.024	-.0030	.0015	.20
	.30	-.032	.60	.273	-.092	-.0041	-.0472	.30
	.40	-.064	.62	.201	-.075	-.0050	-.0775	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.049	.65	.146	.147	-.0032	.1028	-.40
	-.30	-.025	.59	.211	.090	-.0027	.0687	-.30
	-.20	-.020	.58	.235	.037	-.0022	.0320	-.20
	-.10	-.029	.56	.240	.013	-.0018	.0109	-.10
	-.05	-.030	.56	.224	-.032	-.0017	-.0203	-.05
	0.00	-.024	.53	.199	.012	-.0016	.0284	0.00
	0.00	-.028	.54	.207	-.047	-.0017	-.0097	0.00
	.05	-.035	.56	.250	-.030	-.0021	-.0087	.05
	.10	-.033	.58	.264	-.037	-.0025	-.0011	.10
	.20	-.027	.59	.264	-.083	-.0030	-.0411	.20
	.30	-.027	.60	.212	-.087	-.0036	-.0652	.30
	.40	-.054	.64	.140	-.049	-.0043	-.0850	.40
65	-.40	-.030	.64	.080	.097	-.0022	.0964	-.40
	-.30	-.023	.63	.188	.080	-.0021	.0749	-.30
	-.20	-.026	.61	.230	.041	-.0020	.0445	-.20
	-.10	-.040	.59	.237	.005	-.0018	.0168	-.10
	-.05	-.044	.58	.225	-.019	-.0017	.0003	-.05
	0.00	-.034	.58	.217	-.026	-.0017	.0019	0.00
	0.00	-.038	.58	.225	-.006	-.0018	.0092	0.00
	.05	-.045	.58	.232	-.026	-.0021	-.0041	.05
	.10	-.041	.59	.241	-.036	-.0023	-.0131	.10
	.20	-.031	.60	.225	-.065	-.0027	-.0444	.20
	.30	-.026	.63	.183	-.071	-.0030	-.0682	.30
	.40	-.037	.65	.097	-.048	-.0031	-.0822	.40
70	-.40	-.035	.69	.028	.087	-.0014	.0964	-.40
	-.30	-.026	.64	.150	.068	-.0016	.0794	-.30
	-.20	-.019	.62	.190	.036	-.0016	.0522	-.20
	-.10	-.023	.61	.208	-.001	-.0016	.0208	-.10
	-.05	-.031	.60	.213	-.013	-.0016	.0086	-.05
	0.00	-.029	.60	.217	-.024	-.0017	-.0019	0.00
	0.00	-.025	.59	.214	-.018	-.0017	.0017	0.00
	.05	-.025	.59	.205	-.036	-.0018	-.0116	.05
	.10	-.023	.60	.210	-.050	-.0019	-.0269	.10
	.20	-.023	.62	.200	-.062	-.0024	-.0507	.20
	.30	-.029	.64	.151	-.056	-.0026	-.0653	.30
	.40	-.044	.72	.027	-.027	-.0023	-.0809	.40
75	-.40	-.041	.72	.013	.072	-.0008	.0965	-.40
	-.30	-.012	.65	.045	.037	-.0006	.0716	-.30
	-.20	-.008	.60	.147	.020	-.0011	.0517	-.20
	-.10	-.017	.58	.166	-.005	-.0012	.0247	-.10
	-.05	-.019	.59	.169	-.016	-.0012	.0113	-.05
	0.00	-.018	.60	.185	-.019	-.0015	.0002	0.00
	0.00	-.023	.59	.184	-.021	-.0015	-.0006	0.00
	.05	-.026	.58	.170	-.030	-.0015	-.0125	.05
	.10	-.024	.58	.165	-.043	-.0016	-.0291	.10
	.20	-.013	.62	.143	-.050	-.0018	-.0510	.20
	.30	-.011	.65	.030	-.036	-.0014	-.0669	.30
	.40	-.046	.72	.030	-.028	-.0018	-.0829	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4.5A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.027	.72	.020	.045	-.0005	.0931	-.40
	-.30	-.004	.67	.047	.023	-.0005	.0706	-.30
	-.20	-.006	.57	.088	.004	-.0007	.0482	-.20
	-.10	-.015	.59	.126	-.010	-.0010	.0244	-.10
	-.05	-.017	.59	.130	-.018	-.0010	.0108	-.05
	0.00	-.016	.57	.135	-.021	-.0012	-.0011	0.00
	0.00	-.018	.58	.137	-.021	-.0012	-.0006	0.00
	.05	-.017	.59	.129	-.027	-.0013	-.0110	.05
	.10	-.015	.58	.126	-.033	-.0014	-.0259	.10
	.20	-.012	.56	.092	-.039	-.0013	-.0495	.20
	.30	-.005	.69	.034	-.032	-.0010	-.0695	.30
	.40	-.034	.74	.017	-.023	-.0011	-.0825	.40
85	-.40	-.019	.75	.023	.037	.0001	.0931	-.40
	-.30	.004	.66	.045	.008	-.0003	.0681	-.30
	-.20	.006	.61	.040	-.011	-.0003	.0480	-.20
	-.10	-.011	.54	.069	-.017	-.0005	.0225	-.10
	-.05	-.015	.54	.076	-.020	-.0007	.0102	-.05
	0.00	-.011	.53	.077	-.021	-.0008	-.0013	0.00
	0.00	-.012	.53	.074	-.024	-.0008	-.0028	0.00
	.05	-.014	.54	.074	-.030	-.0007	-.0133	.05
	.10	-.009	.54	.058	-.030	-.0007	-.0242	.10
	.20	.003	.61	.033	-.024	-.0006	-.0501	.20
	.30	.001	.67	.030	-.017	-.0007	-.0681	.30
	.40	-.026	.73	.005	-.015	-.0008	-.0847	.40
90	-.40	-.008	.75	.032	.015	.0003	.0899	-.40
	-.30	.012	.68	.015	-.011	.0002	.0687	-.30
	-.20	.016	.59	.010	-.026	-.0001	.0461	-.20
	-.10	.009	.53	.004	-.029	-.0001	.0211	-.10
	-.05	.009	.52	.005	-.029	-.0002	.0086	-.05
	0.00	.013	.52	.006	-.025	-.0002	-.0027	0.00
	0.00	.012	.50	.009	-.026	-.0002	-.0024	0.00
	.05	.013	.51	.004	-.028	-.0002	-.0120	.05
	.10	.013	.53	.003	-.025	-.0003	-.0241	.10
	.20	.017	.59	.004	-.017	-.0002	-.0488	.20
	.30	.010	.67	.012	-.011	-.0002	-.0691	.30
	.40	-.013	.76	.032	-.010	-.0002	-.0863	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.018	.07	.035	-.011	-.0006	.0071	-.40
	-.30	-.016	.02	.006	-.012	-.0004	.0044	-.30
	-.20	-.016	.00	.001	-.012	-.0004	.0032	-.20
	-.10	-.016	.00	.004	-.011	-.0004	.0027	-.10
	-.05	-.016	.01	.006	-.009	-.0004	.0028	-.05
	0.00	-.016	-.00	.002	-.010	-.0004	.0026	0.00
	0.00	-.016	-.00	.002	-.010	-.0004	.0027	0.00
	.05	-.016	.00	.006	-.014	-.0004	.0020	.05
	.10	-.016	.00	.005	-.013	-.0004	.0022	.10
	.20	-.016	-.00	.003	-.013	-.0004	.0028	.20
	.30	-.016	.02	.009	-.010	-.0005	.0042	.30
	.40	-.018	.07	.039	-.007	-.0006	.0068	.40

5	-.40	-.019	.08	.044	-.009	-.0006	.0114	-.40
	-.30	-.015	.03	.017	-.014	-.0005	.0075	-.30
	-.20	-.015	.01	.012	-.016	-.0005	.0049	-.20
	-.10	-.016	.02	.015	-.016	-.0005	.0033	-.10
	-.05	-.017	.02	.018	-.015	-.0005	.0029	-.05
	0.00	-.016	.01	.014	-.012	-.0005	.0029	0.00
	0.00	-.016	.01	.014	-.012	-.0005	.0030	0.00
	.05	-.016	.02	.018	-.013	-.0005	.0023	.05
	.10	-.016	.01	.016	-.011	-.0005	.0022	.10
	.20	-.015	.01	.015	-.008	-.0005	.0026	.20
	.30	-.016	.03	.020	-.005	-.0005	.0035	.30
	.40	-.021	.08	.048	.000	-.0006	.0057	.40

10	-.40	-.025	.11	.059	-.012	-.0005	.0091	-.40
	-.30	-.014	.05	.028	-.016	-.0005	.0062	-.30
	-.20	-.012	.03	.023	-.019	-.0004	.0047	-.20
	-.10	-.013	.03	.025	-.019	-.0005	.0040	-.10
	-.05	-.013	.04	.026	-.017	-.0004	.0039	-.05
	0.00	-.011	.03	.023	-.016	-.0004	.0040	0.00
	0.00	-.011	.03	.022	-.015	-.0004	.0040	0.00
	.05	-.013	.03	.025	-.020	-.0004	.0034	.05
	.10	-.013	.03	.023	-.017	-.0006	.0038	.10
	.20	-.012	.03	.022	-.014	-.0005	.0051	.20
	.30	-.015	.05	.026	-.009	-.0005	.0067	.30
	.40	-.027	.12	.060	-.001	-.0006	.0090	.40

15	-.40	-.039	.17	.131	-.001	-.0007	.0090	-.40
	-.30	-.015	.09	.071	-.012	-.0005	.0063	-.30
	-.20	-.008	.06	.044	-.017	-.0004	.0044	-.20
	-.10	-.007	.05	.033	-.020	-.0004	.0035	-.10
	-.05	-.007	.05	.032	-.020	-.0004	.0033	-.05
	0.00	-.005	.04	.028	-.017	-.0004	.0035	0.00
	0.00	-.005	.04	.028	-.016	-.0004	.0030	0.00
	.05	-.005	.05	.031	-.020	-.0005	.0032	.05
	.10	-.006	.05	.033	-.019	-.0006	.0032	.10
	.20	-.009	.06	.044	-.017	-.0007	.0046	.20
	.30	-.018	.10	.069	-.016	-.0009	.0069	.30
	.40	-.044	.18	.129	-.010	-.0013	.0098	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.035	.21	.102	-.008	-.0009	.0050	-.40
	-.30	-.015	.14	.064	-.018	-.0004	.0052	-.30
	-.20	-.011	.11	.050	-.023	-.0004	.0040	-.20
	-.10	-.013	.11	.049	-.023	-.0004	.0026	-.10
	-.05	-.015	.11	.050	-.022	-.0004	.0022	-.05
	0.00	-.013	.10	.048	-.021	-.0005	.0022	0.00
	0.00	-.012	.10	.048	-.020	-.0005	.0024	0.00
	.05	-.016	.11	.050	-.026	-.0006	.0031	.05
	.10	-.015	.11	.049	-.024	-.0007	.0037	.10
	.20	-.013	.12	.048	-.023	-.0009	.0054	.20
	.30	-.016	.14	.059	-.018	-.0011	.0080	.30
	.40	-.037	.21	.099	-.008	-.0015	.0131	.40
25	-.40	-.040	.27	.112	.001	-.0008	-.0073	-.40
	-.30	-.018	.18	.084	-.022	-.0005	.0008	-.30
	-.20	-.014	.16	.068	-.024	-.0004	.0037	-.20
	-.10	-.016	.15	.064	-.021	-.0005	.0016	-.10
	-.05	-.018	.15	.064	-.019	-.0006	.0009	-.05
	0.00	-.014	.15	.062	-.017	-.0007	.0014	0.00
	0.00	-.013	.14	.060	-.015	-.0007	.0013	0.00
	.05	-.016	.15	.064	-.021	-.0007	.0015	.05
	.10	-.015	.15	.062	-.021	-.0008	.0015	.10
	.20	-.014	.16	.068	-.017	-.0010	.0023	.20
	.30	-.020	.19	.087	-.007	-.0014	.0066	.30
	.40	-.045	.27	.124	-.001	-.0017	.0197	.40
30	-.40	-.049	.37	.102	.024	-.0008	-.0131	-.40
	-.30	-.018	.26	.084	-.015	-.0006	-.0180	-.30
	-.20	-.014	.21	.082	-.031	-.0005	-.0040	-.20
	-.10	-.020	.20	.081	-.013	-.0005	.0000	-.10
	-.05	-.022	.21	.080	-.001	-.0007	.0012	-.05
	0.00	-.019	.20	.079	.005	-.0008	.0001	0.00
	0.00	-.019	.20	.078	.012	-.0008	.0006	0.00
	.05	-.023	.20	.084	.003	-.0009	.0010	.05
	.10	-.021	.20	.087	.006	-.0011	.0014	.10
	.20	-.015	.21	.094	.016	-.0014	.0091	.20
	.30	-.020	.26	.098	.005	-.0014	.0251	.30
	.40	-.049	.38	.103	-.024	-.0013	.0311	.40
35	-.40	-.059	.43	.182	-.015	-.0014	.0155	-.40
	-.30	-.022	.35	.123	-.035	-.0008	.0040	-.30
	-.20	-.014	.30	.088	-.033	-.0006	-.0255	-.20
	-.10	-.014	.26	.088	-.038	-.0005	-.0171	-.10
	-.05	-.017	.25	.091	-.019	-.0007	-.0068	-.05
	0.00	-.016	.24	.095	-.002	-.0008	.0024	0.00
	0.00	-.014	.24	.092	-.004	-.0008	-.0004	0.00
	.05	-.017	.24	.095	.005	-.0009	.0073	.05
	.10	-.015	.25	.095	.009	-.0011	.0128	.10
	.20	-.015	.29	.095	.015	-.0012	.0307	.20
	.30	-.023	.35	.119	.015	-.0014	.0138	.30
	.40	-.065	.44	.188	.007	-.0019	.0101	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.059	.51	.219	.031	-.0016	.0026	-.40
	-.30	-.020	.45	.152	-.022	-.0008	-.0026	-.30
	-.20	-.016	.40	.109	-.078	-.0003	.0019	-.20
	-.10	-.019	.35	.099	-.062	-.0004	-.0252	-.10
	-.05	-.023	.32	.104	-.049	-.0006	-.0184	-.05
	0.00	-.020	.30	.108	-.017	-.0009	-.0057	0.00
	0.00	-.020	.30	.105	-.015	-.0009	-.0039	0.00
	.05	-.024	.30	.113	.006	-.0010	.0097	.05
	.10	-.020	.32	.108	.025	-.0011	.0226	.10
	.20	-.015	.39	.109	.050	-.0013	.0088	.20
	.30	-.019	.44	.150	.020	-.0018	.0045	.30
	.40	-.059	.52	.223	-.015	-.0023	.0140	.40
45	-.40	-.057	.59	.227	.062	-.0018	.0116	-.40
	-.30	-.024	.52	.175	.007	-.0012	-.0134	-.30
	-.20	-.020	.47	.135	-.036	-.0007	-.0229	-.20
	-.10	-.025	.43	.108	-.090	-.0003	-.0156	-.10
	-.05	-.030	.37	.123	-.055	-.0006	-.0122	-.05
	0.00	-.028	.35	.132	.004	-.0010	.0073	0.00
	0.00	-.028	.35	.126	-.011	-.0010	.0013	0.00
	.05	-.031	.37	.123	.025	-.0012	.0148	.05
	.10	-.026	.41	.112	.054	-.0011	.0159	.10
	.20	-.021	.47	.143	.031	-.0014	.0244	.20
	.30	-.028	.51	.176	-.019	-.0018	.0171	.30
	.40	-.063	.59	.230	-.048	-.0023	.0003	.40
50	-.40	-.063	.60	.242	.081	-.0014	.0468	-.40
	-.30	-.033	.55	.217	.026	-.0012	.0125	-.30
	-.20	-.026	.52	.171	-.027	-.0009	-.0169	-.20
	-.10	-.028	.47	.131	-.057	-.0006	-.0247	-.10
	-.05	-.032	.40	.139	-.040	-.0008	-.0088	-.05
	0.00	-.026	.41	.130	.031	-.0010	.0222	0.00
	0.00	-.026	.41	.129	.034	-.0010	.0204	0.00
	.05	-.030	.45	.128	.040	-.0011	.0308	.05
	.10	-.027	.47	.140	.024	-.0012	.0289	.10
	.20	-.025	.50	.162	-.008	-.0014	.0170	.20
	.30	-.032	.53	.191	-.034	-.0018	-.0077	.30
	.40	-.064	.59	.213	-.069	-.0021	-.0379	.40
55	-.40	-.062	.59	.176	.099	-.0014	.0667	-.40
	-.30	-.033	.59	.223	.045	-.0014	.0323	-.30
	-.20	-.027	.55	.199	-.008	-.0011	.0029	-.20
	-.10	-.032	.50	.153	-.039	-.0008	-.0196	-.10
	-.05	-.036	.43	.157	-.019	-.0010	-.0003	-.05
	0.00	-.030	.45	.149	.033	-.0010	.0301	0.00
	0.00	-.031	.45	.152	.037	-.0011	.0327	0.00
	.05	-.034	.50	.154	.025	-.0012	.0333	.05
	.10	-.031	.52	.166	.013	-.0014	.0239	.10
	.20	-.031	.54	.186	-.020	-.0018	.0024	.20
	.30	-.037	.57	.192	-.049	-.0020	-.0239	.30
	.40	-.069	.59	.179	-.070	-.0023	-.0538	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4A2

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.061	.60	.139	.115	-.0008	.0911	-.40
	-.30	-.036	.57	.180	.053	-.0008	.0508	-.30
	-.20	-.031	.55	.191	.001	-.0009	.0127	-.20
	-.10	-.037	.50	.170	-.034	-.0010	-.0105	-.10
	-.05	-.039	.47	.165	.017	-.0011	.0247	-.05
	0.00	-.028	.49	.166	.033	-.0012	.0336	0.00
	0.00	-.028	.48	.169	.030	-.0012	.0338	0.00
	.05	-.037	.51	.176	.018	-.0014	.0266	.05
	.10	-.034	.52	.184	.004	-.0016	.0162	.10
	.20	-.031	.56	.198	-.028	-.0018	-.0083	.20
	.30	-.037	.57	.178	-.072	-.0019	-.0461	.30
	.40	-.062	.59	.125	-.082	-.0019	-.0808	.40
65	-.40	-.079	.60	.049	.079	.0001	.1043	-.40
	-.30	-.040	.59	.135	.058	-.0005	.0711	-.30
	-.20	-.023	.54	.173	.021	-.0008	.0354	-.20
	-.10	-.023	.50	.177	-.015	-.0010	.0079	-.10
	-.05	-.024	.49	.171	.016	-.0011	.0279	-.05
	0.00	-.012	.51	.178	.014	-.0013	.0259	0.00
	0.00	-.021	.51	.184	.022	-.0013	.0306	0.00
	.05	-.027	.51	.180	-.000	-.0014	.0166	.05
	.10	-.020	.53	.184	-.017	-.0016	.0021	.10
	.20	-.027	.56	.187	-.054	-.0018	-.0315	.20
	.30	-.046	.59	.139	-.075	-.0017	-.0653	.30
	.40	-.089	.61	.060	-.056	-.0013	-.0816	.40
70	-.40	-.061	.66	-.004	.056	.0002	.0920	-.40
	-.30	-.040	.58	.110	.056	-.0005	.0749	-.30
	-.20	-.022	.54	.158	.027	-.0008	.0463	-.20
	-.10	-.025	.52	.170	.004	-.0010	.0239	-.10
	-.05	-.029	.51	.175	-.008	-.0011	.0125	-.05
	0.00	-.021	.52	.175	-.004	-.0013	.0121	0.00
	0.00	-.024	.51	.178	-.013	-.0013	.0044	0.00
	.05	-.025	.53	.176	-.024	-.0015	-.0044	.05
	.10	-.017	.54	.177	-.042	-.0015	-.0216	.10
	.20	-.021	.57	.156	-.054	-.0017	-.0424	.20
	.30	-.041	.58	.105	-.057	-.0015	-.0639	.30
	.40	-.064	.67	.002	-.033	-.0009	-.0762	.40
75	-.40	-.056	.71	-.011	.039	.0003	.0927	-.40
	-.30	-.017	.63	.009	.016	.0002	.0655	-.30
	-.20	-.015	.54	.129	.017	-.0007	.0484	-.20
	-.10	-.019	.54	.151	-.001	-.0009	.0240	-.10
	-.05	-.021	.53	.154	-.009	-.0010	.0129	-.05
	0.00	-.020	.54	.163	-.014	-.0012	.0014	0.00
	0.00	-.020	.53	.154	-.016	-.0011	.0008	0.00
	.05	-.022	.54	.156	-.025	-.0013	-.0072	.05
	.10	-.021	.56	.157	-.034	-.0014	-.0200	.10
	.20	-.019	.56	.133	-.049	-.0014	-.0456	.20
	.30	-.021	.64	.013	-.037	-.0006	-.0624	.30
	.40	-.063	.69	-.002	-.030	-.0006	-.0778	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5/4R2

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.044	.71	-.024	.023	.0005	.0905	-.40
	-.30	-.010	.65	.000	.014	.0003	.0693	-.30
	-.20	-.014	.55	.092	.010	-.0005	.0507	-.20
	-.10	-.015	.56	.113	-.004	-.0007	.0254	-.10
	-.05	-.016	.55	.119	-.011	-.0008	.0130	-.05
	0.00	-.013	.54	.124	-.015	-.0009	.0016	0.00
	0.00	-.011	.56	.111	-.014	-.0008	.0002	0.00
	.05	-.014	.54	.116	-.023	-.0010	-.0095	.05
	.10	-.013	.55	.112	-.030	-.0011	-.0236	.10
	.20	-.011	.53	.075	-.035	-.0009	-.0441	.20
	.30	-.014	.64	.017	-.039	-.0005	-.0616	.30
	.40	-.042	.71	-.034	-.030	-.0003	-.0793	.40
85	-.40	-.031	.72	-.006	.017	.0004	.0865	-.40
	-.30	-.004	.65	.021	-.000	.0000	.0660	-.30
	-.20	.004	.60	.031	-.013	-.0001	.0461	-.20
	-.10	-.009	.52	.058	-.014	-.0004	.0214	-.10
	-.05	-.013	.52	.072	-.016	-.0006	.0105	-.05
	0.00	-.009	.52	.074	-.017	-.0006	.0005	0.00
	0.00	-.009	.52	.071	-.020	-.0007	-.0005	0.00
	.05	-.014	.51	.068	-.024	-.0007	-.0098	.05
	.10	-.009	.52	.051	-.024	-.0006	-.0207	.10
	.20	-.001	.60	.025	-.022	-.0005	-.0453	.20
	.30	-.007	.66	.018	-.023	-.0004	-.0637	.30
	.40	-.033	.74	-.016	-.022	-.0001	-.0818	.40
90	-.40	-.013	.70	.017	-.001	.0003	.0845	-.40
	-.30	.003	.62	.005	-.017	.0001	.0650	-.30
	-.20	.007	.58	.008	-.025	-.0000	.0466	-.20
	-.10	.001	.50	.004	-.023	-.0002	.0212	-.10
	-.05	.002	.49	-.000	-.024	-.0002	.0098	-.05
	0.00	.004	.49	.002	-.019	-.0002	-.0004	0.00
	0.00	.005	.50	.000	-.019	-.0001	-.0010	0.00
	.05	.003	.49	.003	-.020	-.0002	-.0101	.05
	.10	.004	.50	-.003	-.019	-.0003	-.0220	.10
	.20	.009	.56	-.007	-.011	-.0001	-.0437	.20
	.30	.005	.64	-.001	-.013	-.0001	-.0614	.30
	.40	-.009	.72	.005	-.018	-.0001	-.0807	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2/2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.010	.09	.028	.001	-.0008	-.0121	-.40
	-.30	-.009	.04	.004	.009	-.0009	-.0070	-.30
	-.20	-.010	.02	-.002	.013	-.0010	-.0040	-.20
	-.10	-.010	.02	-.000	.015	-.0011	-.0019	-.10
	-.05	-.010	.02	.000	.017	-.0011	-.0015	-.05
	0.00	-.008	.02	-.002	.016	-.0010	-.0018	0.00
	0.00	-.008	.02	-.003	.015	-.0010	-.0017	0.00
	.05	-.010	.02	.001	.015	-.0011	-.0017	.05
	.10	-.010	.02	-.000	.016	-.0011	-.0020	.10
	.20	-.010	.02	-.001	.012	-.0011	-.0039	.20
	.30	-.009	.03	.005	.004	-.0009	-.0075	.30
	.40	-.010	.09	.030	-.011	-.0006	-.0130	.40

5	-.40	-.011	.09	.025	-.011	-.0008	-.0074	-.40
	-.30	-.007	.04	.005	.001	-.0010	-.0040	-.30
	-.20	-.008	.03	.002	.010	-.0009	-.0019	-.20
	-.10	-.009	.03	.004	.016	-.0010	-.0013	-.10
	-.05	-.009	.03	.006	.019	-.0010	-.0012	-.05
	0.00	-.009	.03	.004	.015	-.0010	-.0020	0.00
	0.00	-.008	.03	.004	.017	-.0009	-.0019	0.00
	.05	-.009	.03	.006	.015	-.0010	-.0023	.05
	.10	-.009	.03	.005	.017	-.0010	-.0032	.10
	.20	-.008	.03	.004	.015	-.0009	-.0057	.20
	.30	-.008	.04	.007	.011	-.0009	-.0100	.30
	.40	-.012	.10	.028	.004	-.0007	-.0159	.40

10	-.40	-.018	.11	.045	-.005	-.0009	-.0047	-.40
	-.30	-.008	.05	.016	.003	-.0008	-.0022	-.30
	.20	-.006	.04	.009	.009	-.0010	-.0007	-.20
	-.10	-.006	.04	.010	.013	-.0010	-.0007	-.10
	-.05	-.007	.04	.011	.016	-.0010	-.0008	-.05
	0.00	-.007	.03	.009	.015	-.0010	-.0015	0.00
	0.00	-.007	.03	.009	.015	-.0011	-.0014	0.00
	.05	-.007	.04	.012	.016	-.0010	-.0018	.05
	.10	-.007	.04	.011	.017	-.0010	-.0028	.10
	.20	-.006	.04	.012	.014	-.0010	-.0065	.20
	.30	-.008	.05	.018	.004	-.0008	-.0122	.30
	.40	-.019	.11	.047	-.014	-.0008	-.0202	.40

15	-.40	-.022	.12	.054	.006	-.0008	.0074	-.40
	-.30	-.007	.07	.022	.016	-.0009	.0050	-.30
	-.20	-.005	.06	.013	.023	-.0010	.0024	-.20
	-.10	-.007	.06	.014	.023	-.0010	.0002	-.10
	-.05	-.008	.06	.015	.022	-.0010	-.0005	-.05
	0.00	-.004	.05	.013	.013	-.0011	-.0010	0.00
	0.00	-.005	.05	.013	.014	-.0011	-.0010	0.00
	.05	-.008	.05	.016	.008	-.0010	-.0016	.05
	.10	-.006	.05	.014	.005	-.0010	-.0029	.10
	.20	-.005	.05	.015	-.001	-.0009	-.0098	.20
	.30	-.009	.07	.025	-.010	-.0008	-.0200	.30
	.40	-.024	.12	.057	-.026	-.0006	-.0324	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2/2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.031	.16	.064	.025	-.0008	.0342	-.40
	-.30	-.007	.09	.034	.030	-.0008	.0265	-.30
	-.20	-.004	.08	.017	.037	-.0010	.0182	-.20
	-.10	-.004	.08	.015	.038	-.0010	.0080	-.10
	-.05	-.005	.07	.017	.032	-.0010	.0020	-.05
	0.00	-.004	.07	.016	.015	-.0012	-.0023	0.00
	0.00	-.004	.07	.015	.016	-.0012	-.0024	0.00
	.05	-.005	.07	.018	.001	-.0012	-.0051	.05
	.10	-.004	.08	.016	-.006	-.0010	-.0121	.10
	.20	-.004	.08	.021	-.013	-.0009	-.0268	.20
	.30	-.008	.09	.035	-.027	-.0006	-.0423	.30
	.40	-.031	.15	.070	-.073	-.0002	-.0558	.40
25	-.40	-.030	.20	.035	.052	-.0013	.0542	-.40
	-.30	-.010	.12	.025	.053	-.0008	.0426	-.30
	-.20	-.005	.11	.018	.058	-.0010	.0303	-.20
	-.10	-.007	.11	.017	.058	-.0010	.0186	-.10
	-.05	-.009	.11	.017	.054	-.0010	.0093	-.05
	0.00	-.006	.10	.020	.017	-.0009	-.0025	0.00
	0.00	-.006	.10	.019	.013	-.0009	-.0027	0.00
	.05	-.008	.11	.018	-.014	-.0010	-.0133	.05
	.10	-.007	.11	.018	-.020	-.0010	-.0232	.10
	.20	-.005	.11	.020	-.028	-.0008	-.0405	.20
	.30	-.010	.12	.026	-.047	-.0005	-.0571	.30
	.40	-.029	.17	.049	-.133	-.0001	-.0660	.40
30	-.40	-.039	.23	.015	.105	-.0011	.0604	-.40
	-.30	-.010	.15	.009	.082	-.0006	.0498	-.30
	-.20	-.004	.14	.008	.061	-.0009	.0414	-.20
	-.10	-.007	.14	.018	.067	-.0011	.0222	-.10
	-.05	-.008	.14	.018	.067	-.0011	.0162	-.05
	0.00	-.007	.12	.023	.024	-.0009	-.0005	0.00
	0.00	-.007	.12	.022	.028	-.0008	.0002	0.00
	.05	-.010	.14	.020	-.028	-.0011	-.0196	.05
	.10	-.008	.14	.016	-.041	-.0011	-.0238	.10
	.20	-.004	.15	.009	-.049	-.0008	-.0421	.20
	.30	-.009	.16	.007	-.081	-.0005	-.0602	.30
	.40	-.032	.21	.014	-.198	.0000	-.0755	.40
35	-.40	-.045	.27	-.000	.124	-.0015	.0827	-.40
	-.30	-.015	.19	.007	.115	-.0007	.0621	-.30
	-.20	-.008	.17	.011	.095	-.0008	.0445	-.20
	-.10	-.009	.17	.021	.074	-.0010	.0281	-.10
	-.05	-.010	.17	.023	.078	-.0009	.0192	-.05
	0.00	-.009	.16	.024	.038	-.0008	.0027	0.00
	0.00	-.009	.15	.026	.037	-.0008	.0036	0.00
	.05	-.010	.17	.019	-.046	-.0010	-.0188	.05
	.10	-.009	.18	.013	-.043	-.0009	-.0312	.10
	.20	-.008	.18	.005	-.068	-.0007	-.0519	.20
	.30	-.015	.19	.005	-.124	-.0004	-.0737	.30
	.40	-.043	.24	.011	-.259	.0001	-.0924	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2/2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.049	.30	-.008	.128	-.0017	.1209	-.40
	-.30	-.019	.22	.009	.126	-.0010	.0879	-.30
	-.20	-.009	.20	.016	.109	-.0009	.0639	-.20
	-.10	-.011	.20	.026	.083	-.0010	.0410	-.10
	-.05	-.012	.20	.028	.074	-.0009	.0311	-.05
	0.00	-.009	.19	.028	.061	-.0008	.0108	0.00
	0.00	-.010	.19	.025	.061	-.0008	.0110	0.00
	.05	-.014	.20	.028	-.039	-.0009	-.0299	.05
	.10	-.012	.20	.028	-.036	-.0008	-.0420	.10
	.20	-.010	.20	.021	-.072	-.0005	-.0677	.20
	.30	-.017	.21	.012	-.161	-.0005	-.0953	.30
	.40	-.044	.25	.006	-.298	-.0011	-.1202	.40
45	-.40	-.053	.33	-.021	.195	-.0018	.370	-.40
	-.30	-.022	.25	.005	.162	-.0011	.1075	-.30
	-.20	-.013	.23	.023	.128	-.0009	.0768	-.20
	-.10	-.015	.23	.033	.097	-.0009	.0484	-.10
	-.05	-.016	.24	.033	.085	-.0010	.0364	-.05
	0.00	-.014	.23	.031	.063	-.0009	.0215	0.00
	0.00	-.017	.23	.031	.063	-.0009	.0235	0.00
	.05	-.021	.24	.039	-.025	-.0009	-.0390	.05
	.10	-.018	.24	.035	-.038	-.0008	-.0523	.10
	.20	-.014	.24	.023	-.097	-.0006	-.0792	.20
	.30	-.021	.24	.010	-.198	-.0007	-.1117	.30
	.40	-.051	.27	-.005	-.323	-.0012	-.1397	.40
50	-.40	-.063	.36	-.026	.195	-.0018	.1463	-.40
	-.30	-.027	.29	.005	.184	-.0012	.1235	-.30
	-.20	-.016	.26	.025	.157	-.0009	.0936	-.20
	-.10	-.020	.27	.043	.111	-.0010	.0574	-.10
	-.05	-.023	.27	.047	.093	-.0010	.0431	-.05
	0.00	-.020	.26	.043	.078	-.0009	.0288	0.00
	0.00	-.022	.26	.042	.077	-.0009	.0301	0.00
	.05	-.026	.27	.048	-.046	-.0009	-.0431	.05
	.10	-.024	.27	.043	-.067	-.0007	-.0562	.10
	.20	-.020	.27	.031	-.126	-.0006	-.0961	.20
	.30	-.027	.27	.014	-.227	-.0005	-.1261	.30
	.40	-.058	.30	-.004	-.336	-.0012	-.1545	.40
55	-.40	-.062	.37	-.021	.097	-.0018	.1117	-.40
	-.30	-.031	.32	.006	.177	-.0013	.1294	-.30
	-.20	-.021	.28	.032	.161	-.0010	.1017	-.20
	-.10	-.024	.29	.054	.128	-.0011	.0681	-.10
	-.05	-.026	.29	.055	.105	-.0010	.0509	-.05
	0.00	-.025	.29	.056	.088	-.0010	.0386	0.00
	0.00	-.029	.29	.056	.084	-.0009	.0380	0.00
	.05	-.033	.29	.056	-.054	-.0009	-.0468	.05
	.10	-.031	.29	.051	-.076	-.0008	-.0636	.10
	.20	-.026	.29	.038	-.133	-.0005	-.1049	.20
	.30	-.028	.30	.013	-.217	-.0004	-.1322	.30
	.40	-.053	.33	.017	-.270	-.0004	-.1412	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2/2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.075	.41	-.009	.068	-.0015	.1045	-.40
	-.30	-.035	.34	.003	.096	-.0015	.0915	-.30
	-.20	-.019	.30	.034	.149	-.0011	.0994	-.20
	-.10	-.017	.30	.056	.122	-.0011	.0707	-.10
	-.05	-.018	.30	.064	.109	-.0010	.0577	-.05
	0.00	-.016	.30	.066	.091	-.0010	.0441	0.00
	0.00	-.020	.30	.066	.088	-.0010	.0441	0.00
	.05	-.023	.30	.061	-.055	-.0009	-.0529	.05
	.10	-.023	.30	.056	-.082	-.0007	-.0725	.10
	.20	-.024	.30	.038	-.109	-.0005	-.0979	.20
	.30	-.035	.32	.024	-.175	-.0002	-.1241	.30
	.40	-.072	.37	.013	-.196	-.0003	-.1165	.40
65	-.40	-.054	.41	.005	.082	-.0010	.1112	-.40
	-.30	-.031	.35	.036	.073	-.0010	.0832	-.30
	-.20	-.028	.33	.044	.070	-.0012	.0562	-.20
	-.10	-.033	.32	.055	.068	-.0012	.0401	-.10
	-.05	-.035	.32	.057	.063	-.0011	.0332	-.05
	0.00	-.031	.31	.062	.065	-.0009	.0319	0.00
	0.00	-.035	.31	.062	.057	-.0009	.0300	0.00
	.05	-.043	.32	.059	-.022	-.0007	-.0357	.05
	.10	-.040	.32	.057	-.030	-.0006	-.0450	.10
	.20	-.033	.33	.055	-.059	-.0004	-.0723	.20
	.30	-.033	.35	.034	-.066	-.0005	-.0920	.30
	.40	-.051	.38	.013	-.156	-.0014	-.1153	.40
70	-.40	-.059	.43	-.024	.023	-.0007	.0906	-.40
	-.30	-.038	.36	.020	.072	-.0009	.0852	-.30
	-.20	-.024	.34	.042	.063	-.0011	.0558	-.20
	-.10	-.021	.33	.048	.048	-.0010	.0290	-.10
	-.05	-.021	.32	.052	.045	-.0010	.0208	-.05
	0.00	-.015	.32	.058	.045	-.0008	.0187	0.00
	0.00	-.018	.32	.058	.040	-.0008	.0165	0.00
	.05	-.023	.32	.055	.001	-.0007	-.0256	.05
	.10	-.023	.33	.053	-.014	-.0005	-.0370	.10
	.20	-.028	.34	.044	-.036	-.0005	-.0611	.20
	.30	-.041	.36	.021	-.061	-.0006	-.0933	.30
	.40	-.056	.40	-.016	-.088	-.0009	-.0992	.40
75	-.40	-.056	.42	-.043	.018	-.0006	.0894	-.40
	-.30	-.034	.37	-.001	.055	-.0008	.0765	-.30
	-.20	-.018	.34	.029	.063	-.0010	.0554	-.20
	-.10	-.015	.33	.041	.053	-.0010	.0322	-.10
	-.05	-.014	.32	.040	.047	-.0009	.0211	-.05
	0.00	-.011	.32	.046	.037	-.0009	.0130	0.00
	0.00	-.016	.33	.049	.036	-.0009	.0115	0.00
	.05	-.020	.33	.043	.000	-.0007	-.0247	.05
	.10	-.020	.33	.042	-.014	-.0007	-.0397	.10
	.20	-.020	.34	.027	-.033	-.0006	-.0620	.20
	.30	-.034	.36	-.001	-.041	-.0008	-.0844	.30
	.40	-.054	.42	-.039	-.047	-.0010	-.0962	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB3.2/2.4A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.047	.42	-.050	.019	-.0006	.0908	-.40
	-.30	-.024	.37	-.015	.030	-.0007	.0650	-.30
	-.20	-.018	.34	.021	.048	-.0010	.0492	-.20
	-.10	-.015	.33	.028	.042	-.0009	.0306	-.10
	-.05	-.013	.33	.026	.033	-.0008	.0141	-.05
	0.00	-.010	.33	.034	.021	-.0008	-.0026	0.00
	0.00	-.012	.33	.032	.026	-.0008	.0001	0.00
	.05	-.014	.33	.028	.012	-.0006	-.0185	.05
	.10	-.015	.33	.027	.004	-.0006	-.0325	.10
	.20	-.023	.34	.025	-.017	-.0007	-.0561	.20
	.30	-.023	.36	-.015	-.015	-.0009	-.0743	.30
	.40	-.052	.42	-.044	-.026	-.0013	-.0987	.40
85	-.40	-.027	.42	-.030	.013	-.0003	.0907	-.40
	-.30	-.016	.37	-.019	.020	-.0005	.0606	-.30
	-.20	-.013	.34	.004	.034	-.0008	.0480	-.20
	-.10	-.011	.33	.007	.027	-.0008	.0258	-.10
	.05	-.011	.33	.006	.026	-.0008	.0109	-.05
	0.00	-.010	.33	.005	.020	-.0007	-.0032	0.00
	0.00	-.012	.33	.002	.021	-.0008	-.0021	0.00
	.05	-.015	.34	.005	.021	-.0006	-.0171	.05
	.10	-.015	.34	.007	.018	-.0006	-.0313	.10
	.20	-.018	.33	.005	-.001	-.0007	-.0542	.20
	.30	-.017	.36	-.020	-.002	-.0008	-.0686	.30
	.40	-.028	.43	-.026	-.003	-.0012	-.0958	.40
90	-.40	-.016	.42	-.029	.010	-.0005	.0858	-.40
	-.30	-.002	.38	-.024	.012	-.0007	.0588	-.30
	-.20	-.002	.32	-.026	.011	-.0007	.0454	-.20
	-.10	-.006	.33	-.022	.020	-.0008	.0268	-.10
	-.05	-.006	.33	-.020	.022	-.0008	.0102	-.05
	0.00	-.006	.33	-.020	.021	-.0008	-.0042	0.00
	0.00	-.005	.33	-.021	.021	-.0008	-.0037	0.00
	.05	-.007	.33	-.021	.024	-.0008	-.0183	.05
	.10	-.006	.33	-.021	.024	-.0009	-.0335	.10
	.20	-.003	.33	-.030	.022	-.0008	-.0509	.20
	.30	-.004	.37	-.026	.013	-.0008	-.0640	.30
	.40	-.017	.41	-.029	.011	-.0011	-.0924	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.010	.10	.021	-.006	-.0005	-.0141	-.40
	-.30	-.009	.04	-.005	.007	-.0004	-.0066	-.30
	-.20	-.009	.03	-.008	.013	-.0003	-.0019	-.20
	-.10	-.009	.03	-.003	.018	-.0002	.0012	-.10
	-.05	-.009	.03	-.001	.020	-.0002	.0020	-.05
	0.00	-.010	.02	-.005	.018	-.0003	.0017	0.00
	0.00	-.009	.02	-.004	.019	-.0003	.0014	0.00
	.05	-.009	.03	-.001	.018	-.0003	.0017	.05
	.10	-.009	.03	-.003	.018	-.0003	.0011	.10
	.20	-.009	.02	-.007	.012	-.0003	-.0017	.20
	.30	-.009	.04	-.003	-.000	-.0003	-.0070	.30
	.40	-.010	.10	.024	-.018	-.0003	-.0149	.40

5	-.40	-.016	.11	.059	-.021	-.0005	-.0152	-.40
	-.30	-.009	.05	.016	-.002	-.0005	-.0061	-.30
	-.20	-.007	.03	.003	.014	-.0004	-.0004	-.20
	-.10	-.007	.03	.001	.023	-.0003	.0024	-.10
	-.05	-.008	.03	.002	.028	-.0004	.0030	-.05
	0.00	-.007	.02	-.002	.024	-.0004	.0020	0.00
	0.00	-.007	.02	-.002	.023	-.0004	.0021	0.00
	.05	-.007	.03	.003	.024	-.0004	.0014	.05
	.10	-.007	.03	.002	.025	-.0004	.0002	.10
	.20	-.008	.03	.006	.020	-.0005	-.0047	.20
	.30	-.009	.05	.019	.010	-.0003	-.0127	.30
	.40	-.016	.12	.063	-.008	-.0002	-.0243	.40

10	-.40	-.020	.12	.074	-.012	-.0002	-.0110	-.40
	-.30	-.009	.06	.026	.005	-.0004	-.0044	-.30
	-.20	-.006	.04	.012	.016	-.0004	.0003	-.20
	-.10	-.006	.04	.008	.024	-.0004	.0027	-.10
	-.05	-.007	.04	.009	.027	-.0005	.0032	-.05
	0.00	-.006	.03	.006	.022	-.0004	.0027	0.00
	0.00	-.005	.03	.006	.022	-.0004	.0029	0.00
	.05	-.007	.04	.010	.021	-.0010	.0021	.05
	.10	-.006	.04	.010	.020	-.0004	.0005	.10
	.20	-.006	.04	.015	.013	-.0004	-.0055	.20
	.30	-.009	.06	.029	-.003	-.0001	-.0154	.30
	.40	-.020	.12	.077	-.029	.0001	-.0300	.40

15	-.40	-.027	.14	.085	.018	.0000	.0109	-.40
	-.30	-.010	.08	.034	.031	-.0002	.0086	-.30
	-.20	-.006	.07	.015	.042	-.0005	.0050	-.20
	-.10	-.006	.06	.012	.042	-.0005	.0022	-.10
	-.05	-.007	.06	.014	.035	-.0005	.0021	-.05
	0.00	-.005	.06	.011	.016	-.0006	.0036	0.00
	0.00	-.005	.06	.011	.017	-.0006	.0035	0.00
	.05	-.006	.06	.015	.005	-.0006	.0042	.05
	.10	-.006	.06	.013	-.003	-.0005	.0024	.10
	.20	-.005	.07	.018	-.014	-.0004	-.0094	.20
	.30	-.010	.09	.038	-.030	-.0001	-.0258	.30
	.40	-.029	.15	.089	-.053	.0002	-.0491	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.6A4

BETA= 0

ALPHA	$\Delta b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Delta b/2V$
20	-.40	-.034	.16	.080	.042	-.0001	.0449	-.40
	-.30	-.012	.11	.037	.056	-.0002	.0337	-.30
	-.20	-.007	.09	.021	.061	-.0004	.0259	-.20
	-.10	-.008	.10	.019	.061	-.0006	.0153	-.10
	-.05	-.009	.10	.019	.056	-.0006	.0054	-.05
	0.00	-.008	.08	.018	.014	-.0007	.0015	0.00
	0.00	-.008	.08	.018	.016	-.0007	.0016	0.00
	.05	-.009	.10	.021	-.014	-.0005	-.0019	.05
	.10	-.008	.10	.021	-.020	-.0004	-.0119	.10
	.20	-.007	.10	.026	-.030	-.0003	-.0291	.20
	.30	-.012	.11	.041	-.049	-.0002	-.0508	.30
	.40	-.034	.16	.088	-.032	.0001	-.0797	.40
25	-.40	-.053	.22	.093	.078	-.0001	.0688	-.40
	-.30	-.016	.13	.048	.077	-.0000	.0582	-.30
	-.20	-.005	.11	.027	.078	-.0004	.0450	-.20
	-.10	-.004	.11	.022	.077	-.0006	.0312	-.10
	-.05	-.006	.11	.019	.074	-.0007	.0227	-.05
	0.00	-.002	.10	.018	.024	-.0005	.0017	0.00
	0.00	-.002	.10	.019	.019	-.0006	.0006	0.00
	.05	-.006	.11	.022	-.026	-.0005	-.0183	.05
	.10	-.004	.11	.024	-.033	-.0006	-.0260	.10
	.20	-.005	.12	.032	-.052	-.0004	-.0456	.20
	.30	-.017	.14	.055	-.081	-.0000	-.0716	.30
	.40	-.053	.21	.099	-.170	.0003	-.1040	.40
30	-.40	-.060	.27	.043	.119	-.0005	.1057	-.40
	-.30	-.020	.17	.029	.111	-.0001	.0801	-.30
	-.20	-.012	.15	.024	.101	-.0004	.0588	-.20
	-.10	-.012	.15	.031	.085	-.0007	.0414	-.10
	-.05	-.014	.15	.033	.076	-.0003	.0300	-.05
	0.00	-.013	.14	.028	.027	-.0006	.0030	0.00
	0.00	-.013	.14	.030	.029	-.0006	.0029	0.00
	.05	-.015	.16	.031	-.035	-.0007	-.0230	.05
	.10	-.013	.16	.030	-.043	-.0007	-.0359	.10
	.20	-.013	.16	.029	-.080	-.0004	-.0624	.20
	.30	-.019	.18	.034	-.127	.0001	-.0939	.30
	.40	-.054	.23	.062	-.275	.0003	-.1301	.40
35	-.40	-.069	.33	.029	.157	-.0013	.1427	-.40
	-.30	-.023	.19	.036	.121	-.0002	.1180	-.30
	-.20	-.011	.18	.031	.112	-.0006	.0833	-.20
	-.10	-.011	.18	.036	.102	-.0009	.0603	-.10
	-.05	-.012	.18	.037	.086	-.0009	.0464	-.05
	0.00	-.010	.18	.035	.059	-.0007	.0194	0.00
	0.00	-.009	.17	.033	.051	-.0007	.0157	0.00
	.05	-.014	.18	.043	-.029	-.0007	-.0338	.05
	.10	-.013	.18	.039	-.041	-.0006	-.0493	.10
	.20	-.014	.19	.037	-.095	-.0004	-.0860	.20
	.30	-.024	.21	.045	-.153	-.0001	-.1275	.30
	.40	-.067	.26	.064	-.369	-.0007	-.1587	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.6A4

BETA= 0

ALPHA	Ob/2V	C _A	C _N	C _m	C _y	C _l	C _n	Ob/2V
40	-.40	-.071	.35	.005	.218	-.0013	.1586	-.40
	-.30	-.026	.23	.028	.173	-.0004	.1298	-.30
	-.20	-.017	.21	.034	.127	-.0006	.0916	-.20
	-.10	-.018	.22	.046	.107	-.0008	.0703	-.10
	-.05	-.020	.22	.048	.098	-.0008	.0578	-.05
	0.00	-.016	.22	.051	.068	-.0007	.0362	0.00
	0.00	-.016	.22	.052	.069	-.0007	.0358	0.00
	.05	-.021	.23	.055	-.025	-.0008	-.0382	.05
	.10	-.020	.22	.048	-.050	-.0006	-.0572	.10
	.20	-.019	.23	.044	-.114	-.0003	-.1006	.20
	.30	-.028	.23	.039	-.188	-.0000	-.1466	.30
	.40	-.069	.27	.045	-.412	-.0009	-.1758	.40
45	-.40	-.086	.38	.008	.237	-.0016	.1713	-.40
	-.30	-.035	.26	.030	.189	-.0005	.1444	-.30
	-.20	-.018	.24	.039	.139	-.0007	.0988	-.20
	-.10	-.017	.24	.052	.121	-.0009	.0748	-.10
	-.05	-.018	.25	.057	.112	-.0009	.0646	-.05
	0.00	-.017	.25	.071	.091	-.0008	.0472	0.00
	0.00	-.018	.26	.073	.091	-.0008	.0494	0.00
	.05	-.021	.25	.063	-.038	-.0007	-.0398	.05
	.10	-.021	.25	.058	-.074	-.0005	-.0684	.10
	.20	-.023	.26	.054	-.133	-.0003	-.1139	.20
	.30	-.041	.26	.042	-.202	-.0001	-.1572	.30
	.40	-.087	.29	.046	-.414	-.0027	-.1840	.40
50	-.40	-.089	.42	.026	.224	-.0016	.1702	-.40
	-.30	-.041	.30	.039	.212	-.0008	.1598	-.30
	-.20	-.024	.28	.050	.152	-.0009	.1120	-.20
	-.10	-.025	.30	.083	.117	-.0011	.0817	-.10
	-.05	-.025	.29	.076	.097	-.0010	.0640	-.05
	0.00	-.022	.30	.092	.084	-.0009	.0519	0.00
	0.00	-.023	.30	.089	.082	-.0008	.0519	0.00
	.05	-.030	.30	.083	-.041	-.0009	-.0485	.05
	.10	-.027	.30	.071	-.021	-.0007	-.0421	.10
	.20	-.028	.30	.065	-.134	-.0006	-.1225	.20
	.30	-.042	.30	.048	-.216	-.0007	-.1683	.30
	.40	-.083	.34	.056	-.414	-.0024	-.1894	.40
55	-.40	-.101	.45	.080	.093	-.0014	.1151	-.40
	-.30	-.043	.33	.055	.183	-.0008	.1491	-.30
	-.20	-.023	.34	.099	.161	-.0012	.1224	-.20
	-.10	-.020	.33	.109	.115	-.0012	.0805	-.10
	-.05	-.021	.32	.103	.094	-.0012	.0631	-.05
	0.00	-.016	.32	.103	.059	-.0008	.0391	0.00
	0.00	-.019	.32	.102	.051	-.0008	.0379	0.00
	.05	-.023	.30	.089	.003	-.0006	-.0203	.05
	.10	-.023	.30	.079	.002	-.0006	-.0280	.10
	.20	-.028	.30	.065	-.069	-.0004	-.0808	.20
	.30	-.049	.32	.055	-.187	-.0007	-.1578	.30
	.40	-.099	.40	.116	-.273	-.0010	-.1460	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.100	.46	.065	.082	-.0008	.1204	-.40
	-.30	-.052	.38	.101	.118	-.0009	.1164	-.30
	-.20	-.028	.36	.113	.135	-.0013	.1050	-.20
	-.10	-.025	.35	.119	.110	-.0014	.0766	-.10
	-.05	-.024	.34	.112	.093	-.0014	.0610	-.05
	0.00	-.019	.31	.104	.071	-.0009	.0426	0.00
	0.00	-.023	.33	.106	.066	-.0009	.0438	0.00
	.05	-.027	.31	.089	-.005	-.0006	-.0301	.05
	.10	-.027	.31	.082	-.003	-.0005	-.0328	.10
	.20	-.033	.32	.080	-.070	-.0005	-.0861	.20
	.30	-.049	.35	.084	-.131	-.0002	-.1378	.30
	.40	-.095	.40	.074	-.218	-.0016	-.1366	.40
65	-.40	-.067	.46	.039	.071	-.0008	.1152	-.40
	-.30	-.043	.39	.100	.076	-.0008	.0952	-.30
	-.20	-.035	.37	.100	.104	-.0012	.0867	-.20
	-.10	-.036	.37	.120	.085	-.0013	.0604	-.10
	-.05	-.037	.36	.109	.069	-.0012	.0441	-.05
	0.00	-.021	.35	.111	.056	-.0009	.0289	0.00
	0.00	-.025	.35	.110	.054	-.0009	.0319	0.00
	.05	-.039	.35	.105	-.017	-.0007	-.0368	.05
	.10	-.038	.35	.102	-.021	-.0006	-.0443	.10
	.20	-.039	.37	.105	-.077	-.0003	-.0932	.20
	.30	-.046	.40	.098	-.069	-.0003	-.1034	.30
	.40	-.069	.44	.052	-.162	-.0014	-.1365	.40
70	-.40	-.098	.46	.015	.044	-.0005	.1105	-.40
	-.30	-.051	.39	.059	.073	-.0008	.0973	-.30
	-.20	-.019	.36	.072	.070	-.0011	.0661	-.20
	-.10	-.018	.35	.090	.064	-.0011	.0400	-.10
	-.05	-.018	.35	.100	.057	-.0010	.0291	-.05
	0.00	-.013	.35	.100	.041	-.0009	.0170	0.00
	0.00	-.013	.35	.097	.044	-.0009	.0171	0.00
	.05	-.019	.35	.090	.026	-.0007	.0006	.05
	.10	-.020	.35	.086	-.001	-.0005	-.0269	.10
	.20	-.024	.37	.075	-.035	-.0004	-.0630	.20
	.30	-.053	.40	.051	-.065	-.0008	-.1047	.30
	.40	-.097	.46	.020	-.111	-.0010	-.1247	.40
75	-.40	-.085	.46	.028	.051	-.0004	.1153	-.40
	-.30	-.043	.40	.035	.053	-.0007	.0900	-.30
	-.20	-.027	.38	.074	.064	-.0011	.0666	-.20
	-.10	-.022	.37	.079	.048	-.0012	.0350	-.10
	-.05	-.022	.36	.079	.040	-.0010	.0204	-.05
	0.00	-.016	.35	.081	.032	-.0009	.0088	0.00
	0.00	-.019	.37	.081	.030	-.0009	.0094	0.00
	.05	-.023	.36	.077	.021	-.0006	-.0069	.05
	.10	-.024	.37	.079	.002	-.0005	-.0288	.10
	.20	-.027	.38	.070	-.030	-.0004	-.0642	.20
	.30	-.045	.40	.039	-.047	-.0003	-.0943	.30
	.40	-.093	.49	.038	-.075	-.0013	-.1268	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.6A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.076	.47	.002	.031	-.0007	.1195	-.40
	-.30	-.033	.40	.018	.035	-.0010	.0842	-.30
	-.20	-.021	.38	.056	.054	-.0014	.0670	-.20
	-.10	-.016	.37	.065	.045	-.0014	.0399	-.10
	-.05	-.014	.37	.062	.040	-.0013	.0240	-.05
	0.00	-.009	.37	.066	.026	-.0011	.0043	0.00
	0.00	-.015	.36	.063	.028	-.0011	.0062	0.00
	.05	-.020	.37	.065	.025	-.0009	-.0097	.05
	.10	-.020	.37	.065	.010	-.0008	-.0313	.10
	.20	-.026	.37	.060	-.020	-.0008	-.0645	.20
	.30	-.031	.40	.014	-.028	-.0007	-.0864	.30
	.40	-.071	.48	.009	-.066	-.0010	-.1302	.40
85	-.40	-.020	.48	.009	.053	-.0008	.1216	-.40
	-.30	-.024	.41	.020	.035	-.0010	.0828	-.30
	-.20	-.014	.37	.033	.036	-.0013	.0598	-.20
	-.10	-.014	.37	.042	.035	-.0013	.0405	-.10
	-.05	-.013	.37	.034	.031	-.0012	.0225	-.05
	0.00	-.007	.37	.036	.025	-.0011	.0032	0.00
	0.00	-.008	.37	.037	.025	-.0011	.0031	0.00
	.05	-.012	.37	.036	.022	-.0010	-.0150	.05
	.10	-.014	.37	.042	.012	-.0009	-.0363	.10
	.20	-.015	.36	.026	-.008	-.0008	-.0618	.20
	.30	-.029	.41	.025	-.021	-.0007	-.0813	.30
	.40	-.060	.48	.025	-.053	-.0014	-.1255	.40
90	-.40	-.053	.47	.010	.030	-.0011	.1228	-.40
	-.30	-.018	.41	.008	.022	-.0011	.0792	-.30
	-.20	-.001	.37	.000	.017	-.0011	.0545	-.20
	-.10	-.001	.37	.005	.021	-.0011	.0351	-.10
	-.05	.000	.37	.007	.024	-.0011	.0195	-.05
	0.00	.001	.37	.002	.021	-.0011	.0017	0.00
	0.00	.001	.31	.004	.024	-.0010	.0024	0.00
	.05	-.002	.31	.006	.027	-.0008	-.0161	.05
	.10	-.002	.32	.000	.026	-.0008	-.0335	.10
	.20	-.005	.32	.000	.018	-.0008	-.0565	.20
	.30	-.021	.37	.011	-.007	-.0007	-.0795	.30
	.40	-.055	.47	.020	-.034	-.0010	-.1178	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.014	.11	.022	.000	-.0003	-.0075	-.40
	-.30	-.013	.05	-.005	.004	-.0002	-.0029	-.30
	-.20	-.013	.03	-.009	.007	-.0001	.0000	-.20
	-.10	-.013	.03	-.004	.009	-.0001	.0015	-.10
	-.05	-.013	.03	-.003	.010	-.0001	.0021	-.05
	0.00	-.013	.02	-.005	.008	-.0001	.0017	0.00
	0.00	-.014	.02	-.005	.008	-.0000	.0016	0.00
	.05	-.013	.03	-.002	.009	-.0001	.0018	.05
	.10	-.013	.03	-.004	.010	-.0001	.0016	.10
	.20	-.013	.03	-.008	.006	-.0001	-.0000	.20
	.30	-.013	.04	-.004	-.002	-.0002	-.0029	.30
	.40	-.014	.10	.022	-.013	-.0003	-.0078	.40

5	-.40	-.018	.11	.041	-.017	-.0001	-.0030	-.40
	-.30	-.012	.05	.009	-.006	-.0002	.0002	-.30
	-.20	-.011	.03	.001	.002	-.0002	.0019	-.20
	-.10	-.014	.04	.001	.007	-.0002	.0024	-.10
	-.05	-.013	.04	.003	.010	-.0002	.0024	-.05
	0.00	-.012	.03	-.000	.008	-.0002	.0017	0.00
	0.00	-.012	.03	-.000	.008	-.0002	.0017	0.00
	.05	-.013	.04	.004	.012	-.0002	.0016	.05
	.10	-.013	.03	.002	.013	-.0002	.0008	.10
	.20	-.012	.03	.002	.009	-.0003	-.0023	.20
	.30	-.012	.05	.010	-.000	-.0003	-.0070	.30
	.40	-.017	.11	.043	-.016	-.0001	-.0138	.40

10	-.40	-.026	.12	.068	-.011	.0003	-.0003	-.40
	-.30	-.013	.06	.023	-.001	.0000	.0019	-.30
	-.20	-.009	.04	.009	.006	-.0002	.0033	-.20
	-.10	-.009	.04	.008	.010	-.0003	.0034	-.10
	-.05	-.010	.05	.008	.012	-.0004	.0035	-.05
	0.00	-.009	.04	.006	.008	-.0002	.0028	0.00
	0.00	-.008	.04	.006	.005	-.0002	.0024	0.00
	.05	-.009	.04	.008	.009	-.0003	.0021	.05
	.10	-.009	.04	.008	.009	-.0002	.0011	.10
	.20	-.009	.04	.012	.004	.0002	-.0028	.20
	.30	-.013	.06	.026	-.008	.0001	-.0090	.30
	.40	-.027	.13	.071	-.028	.0003	-.0177	.40

15	-.40	-.033	.15	.091	.021	.0001	.0177	-.40
	-.30	-.014	.09	.037	.026	-.0002	.0115	-.30
	-.20	-.007	.06	.014	.028	-.0003	.0057	-.20
	-.10	-.008	.06	.010	.021	-.0003	.0020	-.10
	-.05	-.009	.06	.012	.015	-.0004	.0022	-.05
	0.00	-.007	.05	.009	.001	-.0002	.0035	0.00
	0.00	-.007	.05	.009	-.001	-.0002	.0038	0.00
	.05	-.009	.06	.013	-.006	-.0003	.0040	.05
	.10	-.009	.06	.012	-.013	-.0002	.0030	.10
	.20	-.008	.07	.020	-.021	-.0002	-.0059	.20
	.30	-.014	.09	.041	-.033	-.0000	-.0180	.30
	.40	-.034	.15	.096	-.050	.0002	-.0342	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.039	.17	.088	.035	.0001	.0485	-.40
	-.30	-.015	.11	.040	.044	-.0001	.0333	-.30
	-.20	-.009	.09	.022	.047	-.0004	.0246	-.20
	-.10	-.009	.09	.016	.047	-.0005	.0117	-.10
	-.05	-.010	.09	.016	.037	-.0005	.0037	-.05
	0.00	-.007	.08	.014	-.007	-.0003	.0018	0.00
	0.00	-.007	.08	.015	-.007	-.0003	.0019	0.00
	.05	-.010	.09	.018	-.026	-.0003	-.0026	.05
	.10	-.008	.09	.017	-.031	-.0002	-.0115	.10
	.20	-.009	.09	.026	-.040	-.0002	-.0249	.20
	.30	-.016	.12	.045	-.055	.0000	-.0403	.30
	.40	-.041	.17	.097	-.081	.0002	-.0641	.40
25	-.40	-.051	.20	.075	.075	.0002	.0701	-.40
	-.30	-.019	.14	.039	.062	-.0001	.0565	-.30
	-.20	-.008	.12	.022	.059	-.0003	.0404	-.20
	-.10	-.011	.12	.022	.055	-.0004	.0251	-.10
	-.05	-.012	.12	.020	.049	-.0005	.0134	-.05
	0.00	-.008	.11	.018	-.021	-.0004	-.0027	0.00
	0.00	-.007	.11	.018	-.020	-.0004	-.0017	0.00
	.05	-.011	.12	.022	-.037	-.0003	-.0175	.05
	.10	-.011	.12	.022	-.042	-.0004	-.0234	.10
	.20	-.008	.12	.026	-.056	-.0001	-.0380	.20
	.30	-.018	.14	.044	-.077	.0002	-.0601	.30
	.40	-.051	.20	.081	-.134	.0005	-.0858	.40
30	-.40	-.066	.26	.061	.121	-.0004	.0912	-.40
	-.30	-.023	.17	.035	.100	-.0002	.0702	-.30
	-.20	-.011	.15	.023	.081	-.0004	.0513	-.20
	-.10	-.009	.14	.027	.065	-.0005	.0331	-.10
	-.05	-.010	.15	.027	.065	-.0005	.0243	-.05
	0.00	-.007	.13	.023	-.024	-.0004	-.0083	0.00
	0.00	-.008	.13	.022	-.020	-.0004	-.0069	0.00
	.05	-.011	.15	.025	-.054	-.0004	-.0211	.05
	.10	-.011	.15	.024	-.053	-.0004	-.0309	.10
	.20	-.013	.16	.026	-.079	-.0001	-.0528	.20
	.30	-.023	.18	.038	-.115	.0001	-.0794	.30
	.40	-.063	.25	.066	-.212	.0003	-.1066	.40
35	-.40	-.078	.32	.049	.098	-.0007	.1538	-.40
	-.30	-.026	.20	.041	.086	-.0001	.1124	-.30
	-.20	-.011	.18	.029	.095	-.0003	.0720	-.20
	-.10	-.008	.18	.033	.071	-.0006	.0462	-.10
	-.05	-.009	.18	.033	.067	-.0006	.0329	-.05
	0.00	-.006	.16	.029	-.002	-.0004	.0000	0.00
	0.00	-.006	.16	.030	-.007	-.0004	-.0008	0.00
	.05	-.010	.18	.029	-.047	-.0004	-.0303	.05
	.10	-.009	.18	.034	-.055	-.0003	-.0451	.10
	.20	-.014	.19	.036	-.098	-.0001	-.0762	.20
	.30	-.028	.21	.049	-.142	-.0001	-.1078	.30
	.40	-.077	.27	.088	-.321	-.0010	-.1336	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.087	.35	.020	.198	-.0010	.1504	-.40
	-.30	-.033	.23	.037	.149	-.0002	.1184	-.30
	-.20	-.015	.21	.035	.113	-.0005	.0874	-.20
	-.10	-.012	.22	.044	.082	-.0008	.0575	-.10
	-.05	-.013	.22	.045	.069	-.0008	.0436	-.05
	0.00	-.010	.20	.037	.004	-.0004	.0024	0.00
	0.00	-.009	.20	.038	.002	-.0004	.0012	0.00
	.05	-.016	.22	.043	-.047	-.0003	-.0400	.05
	.10	-.016	.22	.043	-.062	-.0003	-.0534	.10
	.20	-.018	.23	.040	-.114	-.0000	-.0882	.20
	.30	-.034	.25	.040	-.172	.0002	-.1294	.30
	.40	-.081	.30	.049	-.382	-.0004	-.1594	.40
45	-.40	-.090	.38	.007	.233	-.0012	.1757	-.40
	-.30	-.037	.26	.031	.187	-.0003	.1397	-.30
	-.20	-.019	.25	.038	.142	-.0008	.1014	-.20
	-.10	-.018	.26	.053	.099	-.0008	.0653	-.10
	-.05	-.018	.26	.055	.078	-.0008	.0495	-.05
	0.00	-.016	.24	.045	.026	-.0005	.0141	0.00
	0.00	-.018	.24	.047	.026	-.0004	.0145	0.00
	.05	-.022	.26	.058	-.051	-.0004	-.0422	.05
	.10	-.021	.26	.056	-.081	-.0003	-.0604	.10
	.20	-.024	.27	.049	-.137	-.0000	-.1039	.20
	.30	-.040	.27	.040	-.210	.0000	-.1539	.30
	.40	-.088	.31	.039	-.419	-.0006	-.1775	.40
50	-.40	-.110	.40	.003	.238	-.0014	.1851	-.40
	-.30	-.046	.29	.032	.198	-.0004	.1551	-.30
	-.20	-.021	.28	.044	.159	-.0006	.1182	-.20
	-.10	-.015	.28	.062	.113	-.0008	.0774	-.10
	-.05	-.014	.29	.069	.093	-.0008	.0599	-.05
	0.00	-.010	.27	.054	.038	-.0005	.0212	0.00
	0.00	-.011	.27	.058	.032	-.0005	.0168	0.00
	.05	-.019	.29	.073	-.060	-.0004	-.0480	.05
	.10	-.019	.29	.066	-.092	-.0003	-.0720	.10
	.20	-.026	.29	.051	-.150	.0000	-.1197	.20
	.30	-.050	.30	.037	-.206	.0002	-.1604	.30
	.40	-.104	.34	.031	-.396	-.0013	-.1824	.40
55	-.40	-.094	.43	.060	.140	-.0010	.1466	-.40
	-.30	-.046	.32	.038	.188	-.0006	.1566	-.30
	-.20	-.029	.31	.057	.151	-.0008	.1196	-.20
	-.10	-.029	.31	.074	.110	-.0009	.0824	-.10
	-.05	-.030	.32	.082	.086	-.0009	.0637	-.05
	0.00	-.025	.32	.082	.046	-.0006	.0307	0.00
	0.00	-.027	.31	.078	.042	-.0006	.0301	0.00
	.05	-.033	.32	.085	-.054	-.0004	-.0520	.05
	.10	-.033	.32	.076	-.089	-.0003	-.0774	.10
	.20	-.035	.31	.062	-.147	-.0000	-.1235	.20
	.30	-.051	.33	.047	-.197	.0000	-.1649	.30
	.40	-.094	.36	.063	-.270	-.0007	-.1423	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.2A4

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
60	-.40	-.122	.46	.030	.116	-.0009	.1366	-.40
	-.30	-.056	.37	.067	.122	-.0006	.1243	-.30
	-.20	-.027	.33	.060	.142	-.0010	.1165	-.20
	-.10	-.017	.33	.079	.108	-.0010	.0826	-.10
	-.05	-.016	.33	.086	.089	-.0009	.0664	-.05
	0.00	-.014	.34	.102	.074	-.0007	.0534	0.00
	0.00	-.018	.34	.102	.066	-.0007	.0531	0.00
	.05	-.024	.33	.091	-.059	-.0004	-.0575	.05
	.10	-.025	.33	.080	-.083	-.0002	-.0767	.10
	.20	-.035	.34	.065	-.123	-.0000	-.1121	.20
	.30	-.060	.36	.054	-.104	.0002	-.1149	.30
	.40	-.118	.41	.044	-.222	-.0012	-.1416	.40
65	-.40	-.091	.45	.042	.081	-.0008	.1289	-.40
	-.30	-.053	.38	.076	.081	-.0007	.1052	-.30
	-.20	-.037	.36	.080	.082	-.0010	.0811	-.20
	-.10	-.036	.35	.081	.073	-.0011	.0607	-.10
	-.05	-.036	.34	.082	.055	-.0010	.0436	-.05
	0.00	-.022	.34	.087	.044	-.0005	.0305	0.00
	0.00	-.025	.34	.089	.041	-.0005	.0319	0.00
	.05	-.039	.34	.083	-.026	-.0003	-.0359	.05
	.10	-.039	.35	.080	-.045	-.0002	-.0526	.10
	.20	-.042	.36	.081	-.065	.0001	-.0745	.20
	.30	-.056	.39	.074	-.082	.0001	-.1039	.30
	.40	-.092	.43	.052	-.176	-.0010	-.1379	.40
70	-.40	-.119	.46	-.004	.036	-.0001	.1105	-.40
	-.30	-.064	.39	.035	.074	-.0005	.1032	-.30
	-.20	-.024	.36	.060	.069	-.0009	.0726	-.20
	-.10	-.018	.35	.076	.052	-.0010	.0433	-.10
	-.05	-.015	.35	.075	.040	-.0010	.0287	-.05
	0.00	-.010	.35	.080	.030	-.0006	.0198	0.00
	0.00	-.010	.35	.082	.027	-.0005	.0187	0.00
	.05	-.021	.35	.076	-.008	-.0003	-.0211	.05
	.10	-.017	.35	.073	-.020	-.0002	-.0329	.10
	.20	-.030	.36	.062	-.051	-.0001	-.0670	.20
	.30	-.066	.40	.037	-.073	-.0003	-.1035	.30
	.40	-.119	.46	-.002	-.087	-.0008	-.1156	.40
75	-.40	-.102	.47	.003	.033	.0000	.1127	-.40
	-.30	-.057	.40	.027	.066	-.0007	.0909	-.30
	-.20	-.029	.37	.055	.061	-.0010	.0722	-.20
	-.10	-.018	.36	.062	.048	-.0010	.0456	-.10
	-.05	-.017	.36	.061	.040	-.0010	.0325	-.05
	0.00	-.013	.36	.070	.015	-.0006	.0076	0.00
	0.00	-.018	.36	.069	.006	-.0007	.0010	0.00
	.05	-.022	.36	.063	-.007	-.0003	-.0233	.05
	.10	-.024	.36	.064	-.019	-.0002	-.0367	.10
	.20	-.030	.38	.053	-.046	-.0002	-.0657	.20
	.30	-.062	.40	.028	-.070	-.0013	-.0948	.30
	.40	-.106	.48	.007	-.069	-.0008	-.1186	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.0/3.2A4

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.091	.47	-.020	.032	-.0002	.1134	-.40
	-.30	-.043	.40	.004	.027	-.0005	.0803	-.30
	-.20	-.027	.38	.043	.043	-.0009	.0652	-.20
	-.10	-.016	.37	.046	.036	-.0009	.0442	-.10
	-.05	-.014	.36	.044	.029	-.0008	.0281	-.05
	0.00	-.013	.36	.049	.012	-.0006	.0057	0.00
	0.00	-.016	.36	.050	.015	-.0006	.0053	0.00
	.05	-.020	.37	.047	.000	-.0003	-.0179	.05
	.10	-.023	.37	.048	-.011	-.0003	-.0357	.10
	.20	-.034	.38	.045	-.029	-.0003	-.0595	.20
	.30	-.043	.40	-.006	-.031	-.0001	-.0778	.30
	.40	-.088	.48	-.018	-.049	-.0006	-.1152	.40
85	-.40	-.067	.48	-.005	.030	-.0003	.1147	-.40
	-.30	-.037	.41	.003	.020	-.0005	.0795	-.30
	-.20	-.023	.38	.022	.031	-.0008	.0649	-.20
	-.10	-.019	.37	.023	.019	-.0008	.0387	-.10
	-.05	-.017	.37	.020	.019	-.0008	.0231	-.05
	0.00	-.012	.37	.024	.014	-.0005	.0067	0.00
	0.00	-.013	.37	.023	.017	-.0005	.0068	0.00
	.05	-.015	.37	.019	.009	-.0004	-.0142	.05
	.10	-.017	.37	.022	.003	-.0003	-.0323	.10
	.20	-.027	.37	.021	-.018	-.0004	-.0597	.20
	.30	-.040	.41	.005	-.022	-.0001	-.0738	.30
	.40	-.093	.48	-.002	-.044	-.0005	-.1142	.40
90	-.40	-.069	.47	-.015	.017	-.0005	.1137	-.40
	-.30	-.030	.41	-.012	.008	-.0006	.0801	-.30
	-.20	-.009	.37	-.016	.001	-.0006	.0601	-.20
	-.10	-.006	.37	-.009	.006	-.0006	.0395	-.10
	-.05	-.004	.37	-.009	.008	-.0007	.0208	-.05
	0.00	-.005	.37	-.008	.010	-.0005	.0039	0.00
	0.00	-.006	.37	-.009	.010	-.0004	.0038	0.00
	.05	-.006	.37	-.010	.017	-.0003	-.0132	.05
	.10	-.008	.37	-.009	.016	-.0002	-.0300	.10
	.20	-.011	.37	-.017	.007	-.0002	-.0524	.20
	.30	-.030	.42	-.010	-.017	-.0001	-.0711	.30
	.40	-.069	.47	-.012	-.039	-.0002	-.1081	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.022	.09	.050	-.016	-.0018	-.0155	-.40
	-.30	-.020	.02	.021	-.000	-.0018	-.0093	-.30
	-.20	-.020	.00	.009	.008	-.0017	-.0051	-.20
	-.10	-.019	-.00	.006	.013	-.0017	-.0029	-.10
	-.05	-.019	-.00	.006	.016	-.0017	-.0023	-.05
	0.00	-.020	.00	.005	.012	-.0017	-.0023	0.00
	0.00	-.019	.00	.005	.013	-.0017	-.0022	0.00
	.05	-.019	.00	.007	.013	-.0017	-.0026	.05
	.10	-.019	.00	.007	.013	-.0017	-.0033	.10
	.20	-.019	.00	.013	.007	-.0018	-.0063	.20
	.30	-.020	.02	.026	-.003	-.0020	-.0115	.30
	.40	-.023	.08	.056	-.019	-.0022	-.0195	.40

5	-.40	-.025	.11	.046	-.024	-.0026	-.0136	-.40
	-.30	-.018	.04	.024	-.009	-.0022	-.0080	-.30
	-.20	-.016	.02	.015	.003	-.0020	-.0045	-.20
	-.10	-.016	.02	.014	.011	-.0016	-.0027	-.10
	-.05	-.016	.02	.014	.014	-.0016	-.0024	-.05
	0.00	-.017	.01	.012	.013	-.0016	-.0024	0.00
	0.00	-.016	.01	.012	.014	-.0016	-.0024	0.00
	.05	-.016	.01	.016	.012	-.0016	-.0032	.05
	.10	-.016	.01	.016	.013	-.0016	-.0041	.10
	.20	-.016	.02	.019	.010	-.0020	-.0072	.20
	.30	-.018	.04	.028	.002	-.0023	-.0125	.30
	.40	-.026	.11	.050	-.010	-.0028	-.0198	.40

10	-.40	-.030	.15	.077	-.019	-.0023	-.0183	-.40
	-.30	-.013	.07	.036	-.004	-.0020	-.0122	-.30
	-.20	-.005	.04	.017	.007	-.0018	-.0076	-.20
	-.10	-.003	.03	.008	.014	-.0016	-.0048	-.10
	-.05	-.003	.03	.007	.018	-.0016	-.0043	-.05
	0.00	-.003	.03	.008	.014	-.0016	-.0039	0.00
	0.00	-.003	.03	.008	.015	-.0016	-.0039	0.00
	.05	-.003	.03	.008	.015	-.0016	-.0036	.05
	.10	-.003	.03	.009	.016	-.0017	-.0042	.10
	.20	-.004	.04	.018	.014	-.0020	-.0071	.20
	.30	-.012	.08	.035	.006	-.0023	-.0114	.30
	.40	-.031	.16	.075	-.009	-.0028	-.0168	.40

15	-.40	-.015	.15	.072	-.018	.0002	-.0230	-.40
	-.30	-.004	.10	.035	-.001	-.0007	-.0152	-.30
	-.20	-.002	.08	.019	.011	-.0014	-.0093	-.20
	-.10	-.004	.08	.012	.015	-.0019	-.0045	-.10
	-.05	-.006	.08	.011	.016	-.0020	-.0034	-.05
	0.00	-.010	.08	.017	.012	-.0016	-.0022	0.00
	0.00	-.010	.08	.017	.013	-.0015	-.0023	0.00
	.05	-.006	.09	.012	.014	-.0021	-.0014	.05
	.10	-.005	.09	.013	.013	-.0021	-.0017	.10
	.20	-.002	.09	.020	.006	-.0019	-.0033	.20
	.30	-.003	.10	.033	-.006	-.0015	-.0070	.30
	.40	-.014	.15	.068	-.023	-.0009	-.0117	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.044	.21	.064	-.029	.0022	-.0247	-.40
	-.30	-.019	.15	.034	-.004	.0005	-.0162	-.30
	-.20	-.008	.14	.022	.010	-.0007	-.0098	-.20
	-.10	-.007	.13	.016	.018	-.0016	-.0051	-.10
	-.05	-.008	.14	.015	.022	-.0018	-.0037	-.05
	0.00	-.007	.13	.021	.017	-.0016	-.0015	0.00
	0.00	-.006	.13	.021	.017	-.0016	-.0019	0.00
	.05	-.007	.13	.014	.017	-.0022	-.0009	.05
	.10	-.007	.14	.014	.016	-.0022	-.0006	.10
	.20	-.009	.14	.019	.010	-.0017	-.0007	.20
	.30	-.019	.16	.031	-.002	-.0010	-.0021	.30
	.40	-.045	.22	.063	-.017	.0003	-.0047	.40
25	-.40	-.027	.36	.036	-.041	.0025	-.0312	-.40
	-.30	-.017	.25	.033	-.016	.0009	-.0187	-.30
	-.20	-.023	.19	.031	.007	-.0003	-.0118	-.20
	-.10	-.029	.17	.029	.021	-.0013	-.0067	-.10
	-.05	-.031	.17	.029	.026	-.0016	-.0045	-.05
	0.00	-.022	.17	.025	.024	-.0015	-.0019	0.00
	0.00	-.023	.17	.025	.023	-.0015	-.0015	0.00
	.05	-.032	.17	.029	.032	-.0020	-.0004	.05
	.10	-.029	.17	.027	.031	-.0020	.0005	.10
	.20	-.024	.20	.027	.023	-.0018	.0025	.20
	.30	-.018	.25	.036	.002	-.0012	.0063	.30
	.40	-.029	.34	.053	-.028	.0001	.0110	.40
30	-.40	-.061	.44	-.025	-.032	.0030	-.0502	-.40
	-.30	-.025	.33	.011	-.033	.0012	-.0219	-.30
	-.20	-.010	.27	.035	-.014	-.0001	-.0093	-.20
	-.10	-.008	.25	.044	.014	-.0011	-.0060	-.10
	-.05	-.009	.25	.041	.027	-.0014	-.0046	-.05
	0.00	-.021	.27	.032	.032	-.0013	-.0022	0.00
	0.00	-.021	.27	.031	.029	-.0013	-.0019	0.00
	.05	-.009	.25	.040	.044	-.0020	.0002	.05
	.10	-.009	.25	.041	.045	-.0022	.0028	.10
	.20	-.015	.25	.048	.032	-.0024	.0143	.20
	.30	-.031	.30	.054	.004	-.0016	.0270	.30
	.40	-.067	.42	.021	-.031	.0001	.0325	.40
35	-.40	-.083	.58	-.026	-.020	.0028	-.0540	-.40
	-.30	-.039	.47	-.021	-.029	.0013	-.0436	-.30
	-.20	-.019	.38	.022	-.033	.0000	-.0197	-.20
	-.10	-.010	.35	.031	-.002	-.0011	-.0046	-.10
	-.05	-.012	.33	.042	.023	-.0013	-.0010	-.05
	0.00	-.027	.33	.053	.038	-.0013	.0031	0.00
	0.00	-.026	.32	.051	.040	-.0012	.0044	0.00
	.05	-.016	.31	.051	.045	-.0021	.0143	.05
	.10	-.017	.31	.056	.040	-.0025	.0267	.10
	.20	-.021	.34	.058	.031	-.0027	.0337	.20
	.30	-.041	.42	.028	.004	-.0016	.0391	.30
	.40	-.086	.58	-.018	-.015	.0004	.0323	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.073	.62	.048	-.026	-.0006	-.0327	-.40
	-.30	-.030	.53	.027	-.016	.0004	-.0430	-.30
	-.20	-.013	.49	-.004	-.031	.0008	-.0383	-.20
	-.10	-.011	.43	.022	-.021	.0008	-.0076	-.10
	-.05	-.009	.41	.016	.016	.0005	.0058	-.05
	0.00	-.008	.39	.039	.049	.0002	.0194	0.00
	0.00	-.008	.39	.035	.047	.0001	.0221	0.00
	.05	-.013	.36	.064	.047	-.0005	.0388	.05
	.10	-.012	.36	.067	.061	-.0013	.0383	.10
	.20	-.014	.43	.036	.033	-.0020	.0407	.20
	.30	-.032	.55	.000	.042	-.0021	.0110	.30
	.40	-.080	.63	.047	.002	-.0030	-.0001	.40
45	-.40	-.079	.69	.067	-.022	.0022	-.0111	-.40
	-.30	-.046	.62	.043	-.050	.0014	-.0042	-.30
	-.20	-.034	.58	.029	-.028	.0007	-.0320	-.20
	-.10	-.033	.54	.023	-.030	-.0006	-.0264	-.10
	-.05	-.035	.52	.021	.003	-.0011	-.0007	-.05
	0.00	-.024	.47	.034	.051	-.0003	.0288	0.00
	0.00	-.025	.47	.037	.043	-.0003	.0284	0.00
	.05	-.022	.44	.070	.062	-.0007	.0392	.05
	.10	-.020	.47	.050	.059	-.0012	.0382	.10
	.20	-.023	.56	.024	.079	-.0017	.0032	.20
	.30	-.041	.62	.039	.017	-.0025	-.0054	.30
	.40	-.083	.69	.052	-.051	-.0029	-.0101	.40
50	-.40	-.105	.69	.042	.001	.0019	-.0137	-.40
	-.30	-.062	.66	.058	-.002	.0009	-.0147	-.30
	-.20	-.044	.63	.061	-.029	.0002	-.0169	-.20
	-.10	-.039	.62	.067	-.037	-.0004	-.0276	-.10
	-.05	-.039	.62	.061	-.016	-.0009	-.0091	-.05
	0.00	-.034	.56	.055	.052	-.0012	.0259	0.00
	0.00	-.036	.56	.058	.048	-.0013	.0249	0.00
	.05	-.040	.54	.099	.063	-.0027	.0292	.05
	.10	-.039	.60	.072	.071	-.0029	.0203	.10
	.20	-.044	.63	.065	.029	-.0025	.0136	.20
	.30	-.065	.66	.060	-.014	-.0011	.0036	.30
	.40	-.113	.69	.051	-.062	.0007	-.0085	.40
55	-.40	-.104	.77	.075	.014	.0011	.0041	-.40
	-.30	-.065	.70	.086	.012	.0005	-.0051	-.30
	-.20	-.050	.66	.086	-.005	-.0002	-.0132	-.20
	-.10	-.048	.63	.093	-.031	-.0007	-.0226	-.10
	-.05	-.048	.62	.089	-.037	-.0010	-.0138	-.05
	0.00	-.048	.58	.101	.072	-.0011	.0220	0.00
	0.00	-.049	.58	.104	.064	-.0012	.0181	0.00
	.05	-.052	.57	.124	.055	-.0030	.0229	.05
	.10	-.051	.62	.093	.043	-.0028	.0204	.10
	.20	-.052	.65	.085	.008	-.0023	.0100	.20
	.30	-.065	.70	.077	-.026	-.0007	-.0030	.30
	.40	-.104	.75	.067	-.071	.0012	-.0234	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.063	.83	.056	.014	.0019	.0246	-.40
	-.30	-.051	.75	.091	.023	.0004	.0092	-.30
	-.20	-.053	.67	.102	.009	-.0006	-.0064	-.20
	-.10	-.060	.62	.121	-.019	-.0012	-.0186	-.10
	-.05	-.063	.61	.130	-.022	-.0013	-.0143	-.05
	0.00	-.054	.60	.147	.057	-.0014	.0199	0.00
	0.00	-.054	.60	.151	.050	-.0015	.0183	0.00
	.05	-.064	.57	.153	.054	-.0032	.0228	.05
	.10	-.063	.60	.136	.017	-.0033	.0171	.10
	.20	-.054	.66	.110	-.004	-.0022	.0014	.20
	.30	-.050	.71	.082	-.043	-.0003	-.0116	.30
	.40	-.062	.79	.047	-.091	.0018	-.0391	.40
65	-.40	-.114	.80	.034	.034	.0014	.0387	-.40
	-.30	-.079	.77	.091	.039	.0001	.0272	-.30
	-.20	-.061	.68	.112	.019	-.0008	.0110	-.20
	-.10	-.057	.63	.138	-.014	-.0012	-.0092	-.10
	-.05	-.057	.62	.142	-.017	-.0015	-.0102	-.05
	0.00	-.069	.60	.151	.040	-.0016	.0144	0.00
	0.00	-.073	.60	.149	.037	-.0016	.0137	0.00
	.05	-.062	.60	.154	.040	-.0030	.0162	.05
	.10	-.062	.62	.146	.025	-.0031	.0090	.10
	.20	-.065	.68	.124	-.017	-.0024	-.0130	.20
	.30	-.081	.74	.088	-.051	.0001	-.0303	.30
	.40	-.112	.77	.026	-.089	.0027	-.0511	.40
70	-.40	-.072	.66	-.001	.014	.0016	.0388	-.40
	-.30	-.072	.68	.087	.057	-.0002	.0472	-.30
	-.20	-.068	.68	.115	.038	-.0011	.0306	-.20
	-.10	-.071	.66	.131	.014	-.0017	.0109	-.10
	-.05	-.073	.64	.132	.003	-.0019	.0025	-.05
	0.00	-.071	.62	.140	.021	-.0016	.0056	0.00
	0.00	-.072	.63	.149	.017	-.0016	.0052	0.00
	.05	-.071	.63	.137	.017	-.0026	.0018	.05
	.10	-.071	.64	.136	.001	-.0024	-.0093	.10
	.20	-.070	.66	.119	-.031	-.0013	-.0297	.20
	.30	-.077	.68	.094	-.061	.0005	-.0461	.30
	.40	-.082	.68	.009	-.063	.0031	-.0513	.40
75	-.40	-.067	.72	-.092	-.004	.0019	.0431	-.40
	-.30	-.055	.68	.023	.015	.0001	.0324	-.30
	-.20	-.060	.66	.094	.044	-.0014	.0389	-.20
	-.10	-.057	.63	.118	.032	-.0021	.0219	-.10
	-.05	-.057	.62	.125	.021	-.0023	.0108	-.05
	0.00	-.060	.62	.129	.010	-.0016	.0015	0.00
	0.00	-.062	.63	.124	.013	-.0016	.0046	0.00
	.05	-.062	.62	.129	.004	-.0022	-.0090	.05
	.10	-.062	.63	.123	-.010	-.0019	-.0203	.10
	.20	-.066	.67	.103	-.036	-.0008	-.0386	.20
	.30	-.056	.68	.023	-.037	.0010	-.0384	.30
	.40	-.070	.75	-.090	-.058	.0041	-.0555	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.051	.68	-.122	-.008	.0007	.0487	-.40
	-.30	-.035	.64	-.024	.013	-.0005	.0351	-.30
	-.20	-.036	.64	.026	.012	-.0015	.0228	-.20
	-.10	-.053	.65	.078	.023	-.0022	.0192	-.10
	-.05	-.058	.65	.093	.016	-.0024	.0093	-.05
	0.00	-.061	.64	.096	.007	-.0016	.0013	0.00
	0.00	-.060	.65	.096	.008	-.0016	.0012	0.00
	.05	-.058	.65	.090	-.003	-.0022	-.0081	.05
	.10	-.059	.65	.092	-.007	-.0018	-.0143	.10
	.20	-.042	.65	.040	-.007	-.0009	-.0226	.20
	.30	-.036	.63	-.033	-.021	.0010	-.0385	.30
	.40	-.051	.72	-.134	-.027	.0039	-.0557	.40
85	-.40	-.008	.82	-.125	-.025	-.0026	.0495	-.40
	-.30	-.012	.71	-.090	-.008	-.0021	.0370	-.30
	-.20	-.023	.66	-.030	.010	-.0017	.0247	-.20
	-.10	-.029	.61	-.016	.013	-.0014	.0116	-.10
	-.05	-.030	.60	-.016	.014	-.0013	.0061	-.05
	0.00	-.024	.61	-.019	.012	-.0012	.0010	0.00
	0.00	-.024	.60	-.015	.016	-.0011	.0021	0.00
	.05	-.034	.60	-.016	.012	-.0011	-.0046	.05
	.10	-.034	.62	-.010	.009	-.0011	-.0114	.10
	.20	-.027	.66	-.024	-.005	-.0008	-.0261	.20
	.30	-.012	.72	-.088	-.016	-.0000	-.0420	.30
	.40	-.010	.83	-.103	-.029	.0003	-.0555	.40
90	-.40	-.015	.82	-.113	-.025	-.0020	.0506	-.40
	-.30	-.016	.76	-.112	-.015	-.0017	.0406	-.30
	-.20	-.021	.66	-.077	-.003	-.0015	.0273	-.20
	-.10	-.022	.59	-.067	.003	-.0012	.0118	-.10
	-.05	-.021	.59	-.069	.005	-.0010	.0052	-.05
	0.00	-.011	.59	-.073	.009	-.0008	.0001	0.00
	0.00	-.012	.59	-.069	.009	-.0008	-.0000	0.00
	.05	-.020	.59	-.066	.008	-.0008	-.0048	.05
	.10	-.019	.60	-.070	.008	-.0006	-.0110	.10
	.20	-.021	.66	-.079	.005	-.0000	-.0282	.20
	.30	-.018	.74	-.110	.003	.0006	-.0443	.30
	.40	-.016	.82	-.113	-.006	.0012	-.0542	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.008	.10	.045	.028	-.0020	.0251	-.40
	-.30	-.007	.04	.011	.011	-.0017	.0132	-.30
	-.20	-.007	.01	.000	-.000	-.0016	.0055	-.20
	-.10	-.007	.01	-.000	-.007	-.0014	.0011	-.10
	-.05	-.007	.02	.000	-.007	-.0014	.0001	-.05
	0.00	-.007	.01	-.009	-.006	-.0014	-.0004	0.00
	0.00	-.006	.01	-.009	-.006	-.0014	-.0004	0.00
	.05	-.006	.01	.001	-.008	-.0014	-.0004	.05
	.10	-.006	.01	.001	-.006	-.0014	.0005	.10
	.20	-.006	.01	.002	-.002	-.0017	.0040	.20
	.30	-.007	.04	.016	.005	-.0020	.0104	.30
	.40	-.009	.11	.052	.016	-.0022	.0200	.40

5	-.40	-.016	.14	.051	.029	-.0032	.0265	-.40
	-.30	-.010	.06	.018	.010	-.0023	.0145	-.30
	-.20	-.008	.03	.007	-.002	-.0017	.0064	-.20
	-.10	-.008	.02	.007	-.009	-.0015	.0015	-.10
	-.05	-.008	.02	.008	-.008	-.0013	.0003	-.05
	0.00	-.007	.02	.000	-.005	-.0013	-.0004	0.00
	0.00	-.007	.02	-.000	-.006	-.0012	-.0004	0.00
	.05	-.010	.02	.008	-.008	-.0012	-.0007	.05
	.10	-.007	.02	.008	-.004	-.0014	.0001	.10
	.20	-.007	.03	.010	.004	-.0017	.0032	.20
	.30	-.009	.06	.022	.017	-.0022	.0096	.30
	.40	-.017	.14	.057	.036	-.0033	.0193	.40

10	-.40	-.014	.18	.047	.026	-.0032	.0214	-.40
	-.30	-.015	.09	.016	.008	-.0023	.0124	-.30
	-.20	-.020	.05	.013	-.003	-.0018	.0061	-.20
	-.10	-.027	.04	.015	-.007	-.0014	.0019	-.10
	-.05	-.028	.04	.017	-.006	-.0014	.0012	-.05
	0.00	-.024	.05	.009	-.008	-.0012	.0011	0.00
	0.00	-.023	.05	.009	-.008	-.0013	.0023	0.00
	.05	-.029	.04	.017	-.011	-.0013	.0013	.05
	.10	-.027	.04	.015	-.007	-.0014	.0024	.10
	.20	-.019	.05	.013	-.000	-.0019	.0065	.20
	.30	-.011	.09	.015	.011	-.0026	.0137	.30
	.40	-.009	.19	.045	.028	-.0036	.0238	.40

15	-.40	-.058	.17	.094	.065	-.0015	.0615	-.40
	-.30	-.029	.11	.041	.007	-.0015	.0313	-.30
	-.20	-.016	.10	.020	-.035	-.0015	.0105	-.20
	-.10	-.013	.10	.013	-.058	-.0016	-.0018	-.10
	-.05	-.013	.10	.012	-.062	-.0017	-.0046	-.05
	0.00	-.013	.08	.018	-.062	-.0011	-.0055	0.00
	0.00	-.013	.08	.018	-.062	-.0010	-.0055	0.00
	.05	-.013	.10	.014	-.061	-.0018	-.0028	.05
	.10	-.013	.10	.014	-.054	-.0019	.0010	.10
	.20	-.017	.10	.021	-.033	-.0021	.0157	.20
	.30	-.029	.12	.040	.006	-.0025	.0390	.30
	.40	-.058	.18	.092	.066	-.0028	.0716	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.028	.28	.094	.052	.0004	.0429	-.40
	-.30	-.013	.19	.053	-.006	-.0003	.0217	-.30
	-.20	-.014	.15	.035	-.042	-.0009	.0065	-.20
	-.10	-.019	.14	.028	-.059	-.0015	-.0032	-.10
	-.05	-.021	.14	.029	-.060	-.0016	-.0054	-.05
	0.00	-.026	.14	.028	-.061	-.0010	-.0058	0.00
	0.00	-.027	.14	.029	-.060	-.0010	-.0057	0.00
	.05	-.019	.14	.029	-.062	-.0020	-.0034	.05
	.10	-.018	.14	.029	-.053	-.0020	.0006	.10
	.20	-.014	.15	.036	-.025	-.0022	.0155	.20
	.30	-.015	.19	.059	.019	-.0021	.0407	.30
	.40	-.034	.28	.110	.080	-.0018	.0767	.40
25	-.40	-.099	.41	.092	.068	.0005	.0269	-.40
	-.30	-.042	.28	.057	.007	.0000	.0030	-.30
	-.20	-.019	.21	.056	-.049	-.0004	-.0021	-.20
	-.10	-.011	.18	.054	-.074	-.0008	-.0044	-.10
	-.05	-.010	.18	.052	-.072	-.0012	-.0059	-.05
	0.00	-.004	.19	.043	-.066	-.0009	-.0062	0.00
	0.00	-.004	.19	.042	-.065	-.0009	-.0069	0.00
	.05	-.013	.18	.053	-.055	-.0018	-.0031	.05
	.10	-.013	.19	.055	-.038	-.0020	.0008	.10
	.20	-.021	.20	.066	-.003	-.0025	.0174	.20
	.30	-.042	.26	.081	.033	-.0023	.0510	.30
	.40	-.093	.41	.079	.063	-.0016	.0992	.40
30	-.40	-.082	.45	.157	.008	.0014	.0134	-.40
	-.30	-.036	.37	.074	.025	.0005	-.0299	-.30
	-.20	-.017	.30	.069	-.010	-.0001	-.0296	-.20
	-.10	-.011	.28	.070	-.044	-.0006	-.0152	-.10
	-.05	-.013	.27	.069	-.041	-.0010	-.0069	-.05
	0.00	-.008	.24	.067	-.027	-.0009	-.0000	0.00
	0.00	-.008	.24	.070	-.020	-.0009	-.0006	0.00
	.05	-.015	.26	.073	.007	-.0020	.0013	.05
	.10	-.015	.26	.078	.034	-.0025	.0044	.10
	.20	-.018	.29	.088	.034	-.0027	.0277	.20
	.30	-.038	.38	.067	.010	-.0019	.0513	.30
	.40	-.087	.46	.165	.076	-.0019	.0215	.40
35	-.40	-.084	.63	.172	.025	.0013	.0216	-.40
	-.30	-.044	.50	.107	-.028	.0013	.0142	-.30
	-.20	-.032	.41	.087	-.009	.0002	-.0341	-.20
	-.10	-.031	.37	.078	-.040	-.0004	-.0399	-.10
	-.05	-.033	.35	.079	-.046	-.0008	-.0239	-.05
	0.00	-.020	.34	.094	-.018	-.0009	-.0043	0.00
	0.00	-.020	.34	.093	-.022	-.0009	-.0046	0.00
	.05	-.036	.32	.095	.030	-.0023	.0071	.05
	.10	-.032	.35	.090	.042	-.0027	.0279	.10
	.20	-.032	.42	.081	.022	-.0026	.0447	.20
	.30	-.042	.51	.112	.083	-.0031	-.0001	.30
	.40	-.086	.64	.181	.067	-.0025	.0177	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.125	.72	.204	.084	.0004	.0022	-.40
	-.30	-.062	.61	.147	.015	.0008	-.0054	-.30
	-.20	-.038	.55	.093	-.050	.0012	.0011	-.20
	-.10	-.029	.49	.091	-.030	-.0001	-.0457	-.10
	-.05	-.027	.45	.091	-.049	-.0005	-.0416	-.05
	0.00	-.025	.41	.108	-.009	-.0010	-.0109	0.00
	0.00	-.025	.42	.104	-.007	-.0010	-.0102	0.00
	.05	-.027	.43	.108	.046	-.0024	.0290	.05
	.10	-.028	.46	.118	.060	-.0030	.0408	.10
	.20	-.040	.54	.109	.075	-.0035	.0133	.20
	.30	-.067	.62	.153	.014	-.0029	.0267	.30
	.40	-.135	.73	.209	-.010	-.0025	.0353	.40
45	-.40	-.117	.81	.236	.204	-.0007	.0517	-.40
	-.30	-.062	.71	.194	.071	.0003	.0093	-.30
	-.20	-.044	.62	.163	-.031	.0005	-.0225	-.20
	-.10	-.038	.58	.124	-.126	.0007	-.0289	-.10
	-.05	-.036	.56	.101	-.117	-.0000	-.0419	-.05
	0.00	-.032	.49	.124	-.037	-.0010	.0000	0.00
	0.00	-.033	.49	.127	-.041	-.0009	-.0029	0.00
	.05	-.035	.55	.108	.026	-.0029	.0354	.05
	.10	-.037	.58	.130	.042	-.0036	.0307	.10
	.20	-.045	.62	.168	-.005	-.0037	.0413	.20
	.30	-.065	.71	.209	-.031	-.0033	.0447	.30
	.40	-.122	.80	.250	-.019	-.0025	.0500	.40
50	-.40	-.127	.86	.279	.188	.0002	.0650	-.40
	-.30	-.076	.84	.240	.148	-.0002	.0234	-.30
	-.20	-.055	.79	.206	.028	.0005	-.0132	-.20
	-.10	-.051	.68	.190	-.095	.0005	-.0449	-.10
	-.05	-.049	.67	.154	-.115	-.0002	-.0432	-.05
	0.00	-.043	.61	.151	-.019	-.0013	.0172	0.00
	0.00	-.045	.62	.141	-.010	-.0013	.0170	0.00
	.05	-.053	.67	.164	.012	-.0033	.0392	.05
	.10	-.054	.68	.193	.014	-.0042	.0457	.10
	.20	-.056	.79	.211	-.061	-.0037	.0315	.20
	.30	-.074	.82	.241	-.069	-.0030	.0237	.30
	.40	-.121	.85	.264	.020	-.0027	.0293	.40
55	-.40	-.145	.84	.232	.171	.0003	.0813	-.40
	-.30	-.087	.80	.268	.076	.0005	.0322	-.30
	-.20	-.058	.79	.263	.022	.0002	-.0024	-.20
	-.10	-.046	.79	.230	-.019	-.0001	-.0278	-.10
	-.05	-.047	.70	.223	-.091	-.0002	-.0446	-.05
	0.00	-.048	.66	.190	-.022	-.0017	.0194	0.00
	0.00	-.049	.68	.192	-.024	-.0017	.0177	0.00
	.05	-.047	.73	.221	-.005	-.0038	.0404	.05
	.10	-.049	.79	.236	-.051	-.0037	.0263	.10
	.20	-.058	.78	.260	-.041	-.0041	.0179	.20
	.30	-.087	.79	.269	-.017	-.0038	.0120	.30
	.40	-.142	.84	.234	.020	-.0023	.0029	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.155	.84	.199	.188	-.0004	.1000	-.40
	-.30	-.098	.81	.267	.085	-.0001	.0481	-.30
	-.20	-.066	.78	.287	.008	.0001	.0123	-.20
	-.10	-.054	.79	.279	-.024	-.0005	-.0164	-.10
	-.05	-.051	.75	.230	-.058	-.0007	-.0319	-.05
	0.00	-.048	.70	.236	.003	-.0027	.0379	0.00
	0.00	-.050	.70	.238	.005	-.0027	.0364	0.00
	.05	-.053	.78	.255	-.058	-.0034	.0218	.05
	.10	-.056	.77	.279	-.041	-.0042	.0174	.10
	.20	-.070	.77	.288	-.043	-.0040	.0024	.20
	.30	-.099	.80	.270	-.029	-.0029	-.0121	.30
	.40	-.159	.86	.206	.013	-.0007	-.0212	.40
65	-.40	-.130	.83	.138	.182	-.0010	.1075	-.40
	-.30	-.086	.76	.225	.084	-.0009	.0573	-.30
	-.20	-.070	.75	.272	.007	-.0003	.0165	-.20
	-.10	-.062	.72	.257	-.032	-.0008	-.0082	-.10
	-.05	-.067	.72	.242	-.065	-.0009	-.0248	-.05
	0.00	-.062	.73	.245	-.006	-.0032	.0360	0.00
	0.00	-.063	.76	.250	-.007	-.0032	.0358	0.00
	.05	-.065	.77	.271	-.049	-.0037	.0177	.05
	.10	-.065	.77	.279	-.056	-.0038	.0065	.10
	.20	-.074	.80	.294	-.049	-.0038	-.0109	.20
	.30	-.093	.82	.261	-.033	-.0022	-.0295	.30
	.40	-.144	.88	.184	.011	.0000	-.0427	.40
70	-.40	-.094	.69	.021	.141	-.0001	.0902	-.40
	-.30	-.079	.76	.194	.079	-.0012	.0641	-.30
	-.20	-.065	.77	.256	.006	-.0009	.0237	-.20
	-.10	-.063	.74	.256	-.044	-.0010	-.0048	-.10
	-.05	-.064	.71	.238	-.057	-.0014	-.0122	-.05
	0.00	-.054	.71	.240	-.034	-.0026	.0176	0.00
	0.00	-.056	.70	.234	-.031	-.0026	.0187	0.00
	.05	-.064	.73	.250	-.041	-.0035	.0121	.05
	.10	-.063	.72	.247	-.048	-.0033	-.0004	.10
	.20	-.068	.76	.251	-.049	-.0027	-.0208	.20
	.30	-.081	.75	.198	-.030	-.0008	-.0390	.30
	.40	-.098	.70	.043	.042	.0014	-.0328	.40
75	-.40	-.119	.92	-.017	.121	-.0010	.0921	-.40
	-.30	-.075	.74	.092	.057	-.0013	.0567	-.30
	-.20	-.062	.75	.200	.005	-.0015	.0319	-.20
	-.10	-.057	.70	.223	-.041	-.0013	.0035	-.10
	-.05	-.061	.68	.221	-.046	-.0017	.0004	-.05
	0.00	-.057	.71	.227	-.043	-.0018	.0022	0.00
	0.00	-.050	.71	.225	-.034	-.0022	.0083	0.00
	.05	-.058	.69	.222	-.040	-.0028	.0026	.05
	.10	-.056	.70	.222	-.044	-.0026	-.0059	.10
	.20	-.062	.72	.183	-.047	-.0016	-.0292	.20
	.30	-.078	.74	.083	-.017	-.0005	-.0367	.30
	.40	-.125	.90	-.007	.042	.0008	-.0411	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.117	.79	-.072	.093	-.0030	.0844	-.40
	-.30	-.061	.69	.008	.043	-.0022	.0585	-.30
	-.20	-.050	.71	.132	.001	-.0019	.0373	-.20
	-.10	-.045	.72	.178	-.032	-.0014	.0135	-.10
	-.05	-.044	.71	.183	-.041	-.0012	.0029	-.05
	0.00	-.045	.71	.193	-.044	-.0011	-.0058	0.00
	0.00	-.044	.70	.189	-.046	-.0011	-.0062	0.00
	.05	-.048	.71	.184	-.044	-.0013	-.0072	.05
	.10	-.048	.71	.173	-.049	-.0012	-.0167	.10
	.20	-.049	.69	.115	-.042	-.0012	-.0301	.20
	.30	-.055	.70	-.010	-.011	-.0005	-.0436	.30
	.40	-.113	.81	-.063	.046	-.0010	-.0493	.40
85	-.40	-.084	.87	-.022	.077	-.0026	.0745	-.40
	-.30	-.044	.84	-.012	.033	-.0018	.0597	-.30
	-.20	-.033	.70	.052	.004	-.0013	.0340	-.20
	-.10	-.034	.66	.093	-.024	-.0009	.0128	-.10
	-.05	-.034	.64	.091	-.032	-.0008	.0043	-.05
	0.00	-.035	.64	.094	-.034	-.0008	-.0032	0.00
	0.00	-.034	.64	.088	-.034	-.0007	-.0042	0.00
	.05	-.030	.64	.096	-.038	-.0006	-.0115	.05
	.10	-.029	.65	.093	-.034	-.0006	-.0165	.10
	.20	-.032	.70	.046	-.029	-.0002	-.0358	.20
	.30	-.046	.79	-.023	.003	.0001	-.0499	.30
	.40	-.087	.89	-.065	.044	-.0007	-.0570	.40
90	-.40	-.057	.89	-.027	.050	-.0013	.0692	-.40
	-.30	-.036	.83	-.032	.006	-.0011	.0555	-.30
	-.20	-.033	.71	.009	-.013	-.0011	.0351	-.20
	-.10	-.033	.64	.023	-.029	-.0008	.0125	-.10
	-.05	-.033	.63	.027	-.033	-.0006	.0034	-.05
	0.00	-.030	.63	.021	-.037	-.0005	-.0043	0.00
	0.00	-.030	.64	.021	-.039	-.0004	-.0051	0.00
	.05	-.034	.63	.023	-.036	-.0004	-.0108	.05
	.10	-.034	.64	.022	-.034	-.0002	-.0194	.10
	.20	-.035	.71	.004	-.019	.0004	-.0390	.20
	.30	-.032	.81	-.027	.008	.0009	-.0531	.30
	.40	-.048	.90	-.032	.044	.0012	-.0614	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.001	.10	.025	.015	-.0012	.0045	-.40
	-.30	-.003	.05	.007	.010	-.0012	.0032	-.30
	-.20	-.005	.03	.002	.006	-.0012	.0024	-.20
	-.10	-.005	.03	.003	.004	-.0012	.0021	-.10
	-.05	-.006	.03	.004	.004	-.0012	.0020	-.05
	0.00	-.004	.03	.003	.007	-.0013	.0016	0.00
	0.00	-.003	.03	.004	.006	-.0012	.0014	0.00
	.05	-.003	.03	.004	.006	-.0012	.0020	.05
	.10	-.003	.03	.004	.007	-.0012	.0019	.10
	.20	-.004	.03	.003	.005	-.0011	.0014	.20
	.30	-.004	.05	.008	.006	-.0011	.0007	.30
	.40	-.005	.10	.027	.009	-.0011	.0003	.40

5	-.40	-.010	.12	.029	.011	-.0016	.0065	-.40
	-.30	-.003	.05	.012	.006	-.0015	.0049	-.30
	-.20	-.000	.03	.006	.004	-.0013	.0036	-.20
	-.10	-.000	.03	.006	.003	-.0012	.0026	-.10
	-.05	-.000	.03	.007	.005	-.0012	.0022	-.05
	0.00	-.001	.03	.005	.007	-.0012	.0014	0.00
	0.00	-.000	.03	.005	.006	-.0012	.0015	0.00
	.05	.000	.03	.007	.009	-.0012	.0015	.05
	.10	.000	.03	.007	.011	-.0012	.0010	.10
	.20	.000	.03	.008	.013	-.0012	-.0004	.20
	.30	-.002	.06	.014	.016	-.0012	-.0017	.30
	.40	-.010	.12	.032	.019	-.0014	-.0031	.40

10	-.40	-.020	.16	.035	.013	-.0016	.0065	-.40
	-.30	-.002	.08	.015	.006	-.0016	.0042	-.30
	-.20	.003	.04	.011	.005	-.0015	.0029	-.20
	-.10	.005	.03	.011	.005	-.0012	.0017	-.10
	-.05	.006	.03	.012	.008	-.0012	.0012	-.05
	0.00	.005	.02	.005	.008	-.0013	.0006	0.00
	0.00	.005	.02	.005	.009	-.0013	.0005	0.00
	.05	.005	.03	.014	.011	-.0012	.0008	.05
	.10	.005	.03	.013	.013	-.0012	.0002	.10
	.20	.003	.04	.013	.013	-.0013	-.0010	.20
	.30	-.002	.08	.015	.014	-.0013	-.0024	.30
	.40	-.020	.17	.034	.016	-.0014	-.0042	.40

15	-.40	.022	.13	.017	.021	-.0018	.0070	-.40
	-.30	.005	.08	.005	.016	-.0016	.0034	-.30
	-.20	-.013	.07	.009	.011	-.0016	.0028	-.20
	-.10	-.026	.07	.014	.009	-.0014	.0027	-.10
	-.05	-.029	.07	.016	.009	-.0013	.0026	-.05
	0.00	-.020	.07	.011	.005	-.0013	.0022	0.00
	0.00	-.021	.07	.010	.006	-.0012	.0024	0.00
	.05	-.030	.07	.016	.001	-.0012	.0031	.05
	.10	-.027	.07	.014	.002	-.0012	.0026	.10
	.20	-.012	.07	.011	.002	-.0012	.0011	.20
	.30	.008	.08	.007	.003	-.0014	-.0009	.30
	.40	.029	.14	.019	.006	-.0014	-.0045	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.055	.18	.060	.032	-.0018	.0286	-.40
	-.30	-.024	.12	.028	.023	-.0017	.0153	-.30
	-.20	-.010	.09	.015	.018	-.0016	.0072	-.20
	-.10	-.003	.09	.010	.014	-.0014	.0021	-.10
	-.05	-.003	.09	.010	.011	-.0014	.0019	-.05
	0.00	.000	.08	.006	.005	-.0014	.0021	0.00
	0.00	.001	.08	.006	.006	-.0014	.0021	0.00
	.05	-.003	.08	.010	.001	-.0012	.0032	.05
	.10	-.004	.09	.010	-.002	-.0012	.0027	.10
	.20	-.010	.09	.016	-.006	-.0014	-.0013	.20
	.30	-.025	.12	.028	-.009	-.0013	-.0065	.30
	.40	-.055	.19	.057	-.010	-.0014	-.0150	.40
25	-.40	.008	.18	.029	.032	-.0017	.0474	-.40
	-.30	.010	.15	.010	.022	-.0017	.0326	-.30
	-.20	-.001	.14	.011	.030	-.0016	.0154	-.20
	-.10	-.010	.14	.012	.027	-.0014	.0053	-.10
	-.05	-.014	.14	.016	.022	-.0014	.0022	-.05
	0.00	-.013	.12	.020	.010	-.0014	.0010	0.00
	0.00	-.012	.12	.020	.011	-.0015	.0009	0.00
	.05	-.013	.14	.018	-.002	-.0013	.0014	.05
	.10	-.010	.14	.014	-.012	-.0013	-.0005	.10
	.20	-.002	.14	.014	-.020	-.0014	-.0090	.20
	.30	.010	.15	.005	-.015	-.0012	-.0178	.30
	.40	.006	.20	-.001	-.023	-.0013	-.0260	.40
30	-.40	-.072	.26	.041	.051	-.0017	.0667	-.40
	-.30	-.021	.21	.024	.035	-.0016	.0524	-.30
	-.20	.003	.18	.009	.023	-.0016	.0363	-.20
	-.10	.009	.17	.005	.039	-.0015	.0210	-.10
	-.05	.012	.16	.009	.032	-.0014	.0109	-.05
	0.00	-.009	.14	.016	.020	-.0015	.0003	0.00
	0.00	-.008	.14	.016	.022	-.0015	.0010	0.00
	.05	.013	.16	.016	-.017	-.0013	-.0023	.05
	.10	.011	.17	.009	-.030	-.0014	-.0124	.10
	.20	.002	.18	.012	-.036	-.0012	-.0207	.20
	.30	-.025	.22	.002	-.027	-.0013	-.0325	.30
	.40	-.080	.28	.029	-.020	-.0011	-.0536	.40
35	-.40	-.063	.31	-.006	.082	-.0016	.0642	-.40
	-.30	-.021	.26	.001	.044	-.0016	.0633	-.30
	-.20	-.007	.24	.005	.040	-.0016	.0500	-.20
	-.10	-.005	.23	.008	.069	-.0015	.0264	-.10
	-.05	-.007	.23	.004	.048	-.0014	.0238	-.05
	0.00	-.003	.20	.026	.024	-.0015	.0082	0.00
	0.00	-.004	.20	.022	.028	-.0015	.0103	0.00
	.05	-.011	.22	.012	-.019	-.0015	-.0132	.05
	.10	-.003	.23	.008	-.048	-.0013	-.0218	.10
	.20	-.008	.26	-.011	-.064	-.0012	-.0231	.20
	.30	-.019	.28	-.020	-.052	-.0013	-.0435	.30
	.40	-.055	.34	-.029	-.080	-.0009	-.0478	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.055	.37	-.023	.121	-.0019	.0771	-.40
	-.30	-.017	.32	-.023	.102	-.0019	.0563	-.30
	-.20	-.003	.27	.003	.081	-.0017	.0488	-.20
	-.10	.002	.26	.012	.072	-.0015	.0398	-.10
	-.05	.002	.26	.013	.069	-.0014	.0244	-.05
	0.00	-.001	.23	.025	.019	-.0015	.0086	0.00
	0.00	-.001	.24	.021	.024	-.0016	.0138	0.00
	.05	.001	.26	.016	-.052	-.0014	-.0177	.05
	.10	.001	.27	.006	-.082	-.0013	-.0193	.10
	.20	-.001	.29	-.007	-.095	-.0013	-.0313	.20
	.30	-.014	.33	-.029	-.087	-.0011	-.0475	.30
	.40	-.054	.39	-.047	-.099	-.0009	-.0570	.40
45	-.40	-.065	.40	.004	.137	-.0018	.1098	-.40
	-.30	-.028	.36	.005	.094	-.0018	.0820	-.30
	-.20	-.012	.34	.002	.097	-.0017	.0616	-.20
	-.10	-.009	.32	.013	.080	-.0016	.0417	-.10
	-.05	-.011	.31	.020	.074	-.0015	.0354	-.05
	0.00	-.003	.27	.027	.030	-.0015	.0071	0.00
	0.00	-.002	.28	.026	.012	-.0015	.0033	0.00
	.05	-.011	.31	.018	-.074	-.0014	-.0154	.05
	.10	-.009	.33	.010	-.091	-.0012	-.0299	.10
	.20	-.011	.34	.007	-.080	-.0013	-.0583	.20
	.30	-.025	.36	.004	-.074	-.0009	-.0749	.30
	.40	-.064	.40	.001	-.099	-.0008	-.0930	.40
50	-.40	-.066	.41	.008	.176	-.0023	.1229	-.40
	-.30	-.032	.39	.017	.119	-.0020	.0906	-.30
	-.20	-.020	.39	.021	.096	-.0018	.0711	-.20
	-.10	-.021	.38	.020	.092	-.0017	.0530	-.10
	-.05	-.021	.38	.018	.080	-.0016	.0403	-.05
	0.00	-.028	.33	.045	.046	-.0016	.0149	0.00
	0.00	-.028	.33	.040	.037	-.0016	.0126	0.00
	.05	-.020	.36	.021	-.064	-.0015	-.0292	.05
	.10	-.020	.38	.019	-.076	-.0014	-.0409	.10
	.20	-.022	.39	.025	-.102	-.0011	-.0569	.20
	.30	-.032	.39	.011	-.099	-.0008	-.0782	.30
	.40	-.066	.42	-.004	-.139	-.0006	-.1094	.40
55	-.40	-.061	.37	-.026	.202	-.0025	.1401	-.40
	-.30	-.032	.41	.011	.152	-.0022	.1057	-.30
	-.20	-.025	.41	.035	.089	-.0020	.0740	-.20
	-.10	-.027	.43	.052	.063	-.0019	.0541	-.10
	-.05	-.028	.43	.050	.072	-.0018	.0448	-.05
	0.00	-.023	.36	.047	.033	-.0015	.0127	0.00
	0.00	-.024	.36	.048	.032	-.0016	.0115	0.00
	.05	-.028	.41	.048	-.063	-.0015	-.0332	.05
	.10	-.027	.42	.049	-.059	-.0014	-.0458	.10
	.20	-.026	.41	.038	-.064	-.0010	-.0636	.20
	.30	-.033	.40	.007	-.125	-.0005	-.0970	.30
	.40	-.063	.37	-.027	-.155	.0001	-.1352	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A3

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
60	-.40	-.049	.48	.003	.113	-.0027	.1137	-.40
	-.30	-.030	.41	.020	.151	-.0027	.1124	-.30
	-.20	-.027	.41	.051	.128	-.0024	.0940	-.20
	-.10	-.032	.43	.071	.090	-.0020	.0614	-.10
	-.05	-.034	.40	.067	.069	-.0019	.0483	-.05
	0.00	-.032	.39	.050	.019	-.0016	.0099	0.00
	0.00	-.033	.39	.051	.003	-.0016	.0025	0.00
	.05	-.033	.40	.070	-.050	-.0016	-.0448	.05
	.10	-.032	.43	.074	-.064	-.0011	-.0561	.10
	.20	-.029	.41	.052	-.087	-.0007	-.0897	.20
	.30	-.029	.42	.016	-.118	.0001	-.1036	.30
	.40	-.050	.46	-.015	-.092	.0006	-.1114	.40
65	-.40	-.079	.55	.001	.113	-.0027	.1211	-.40
	-.30	-.047	.49	.046	.103	-.0031	.0944	-.30
	-.20	-.031	.43	.056	.100	-.0029	.0817	-.20
	-.10	-.029	.41	.074	.083	-.0027	.0617	-.10
	-.05	-.030	.41	.080	.078	-.0023	.0536	-.05
	0.00	-.030	.42	.065	-.018	-.0016	-.0197	0.00
	0.00	-.037	.43	.065	-.026	-.0014	-.0287	0.00
	.05	-.036	.41	.080	-.045	-.0010	-.0491	.05
	.10	-.036	.41	.074	-.062	-.0006	-.0593	.10
	.20	-.035	.43	.058	-.077	-.0001	-.0758	.20
	.30	-.047	.47	.041	-.083	.0005	-.0899	.30
	.40	-.077	.53	.007	-.086	.0008	-.1078	.40
70	-.40	-.095	.52	.023	.105	-.0025	.1108	-.40
	-.30	-.055	.48	.051	.086	-.0027	.0872	-.30
	-.20	-.032	.48	.074	.067	-.0031	.0665	-.20
	-.10	-.025	.46	.086	.058	-.0030	.0518	-.10
	-.05	-.023	.47	.092	.045	-.0029	.0395	-.05
	0.00	-.036	.45	.099	-.013	-.0007	-.0223	0.00
	0.00	-.041	.45	.101	-.003	-.0012	-.0112	0.00
	.05	-.028	.47	.086	-.025	-.0006	-.0344	.05
	.10	-.029	.46	.085	-.036	-.0004	-.0459	.10
	.20	-.035	.47	.071	-.047	-.0000	-.0626	.20
	.30	-.055	.49	.059	-.060	-.0000	-.0804	.30
	.40	-.096	.51	.021	-.056	.0002	-.1018	.40
75	-.40	-.086	.60	-.045	.074	-.0026	.1101	-.40
	-.30	-.042	.53	.015	.069	-.0026	.0860	-.30
	-.20	-.015	.49	.058	.049	-.0022	.0535	-.20
	-.10	-.008	.46	.076	.030	-.0019	.0270	-.10
	-.05	-.005	.45	.081	.024	-.0018	.0153	-.05
	0.00	-.001	.46	.086	.010	-.0016	.0025	0.00
	0.00	.002	.46	.090	.012	-.0017	.0042	0.00
	.05	.000	.45	.080	.007	-.0015	-.0083	.05
	.10	-.002	.45	.072	-.006	-.0012	-.0230	.10
	.20	-.016	.48	.062	-.028	-.0009	-.0491	.20
	.30	-.044	.53	.023	-.044	-.0005	-.0736	.30
	.40	-.087	.60	-.058	-.045	-.0002	-.1018	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB3A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.066	.50	-.087	.046	-.0021	.0931	-.40
	-.30	-.046	.52	.011	.060	-.0024	.0829	-.30
	-.20	-.027	.51	.054	.041	-.0022	.0571	-.20
	-.10	-.018	.50	.066	.022	-.0019	.0292	-.10
	-.05	-.017	.50	.067	.012	-.0018	.0150	-.05
	0.00	-.019	.49	.069	.006	-.0016	.0003	0.00
	0.00	-.018	.48	.071	.004	-.0015	.0010	0.00
	.05	-.018	.49	.069	.001	-.0015	-.0118	.05
	.10	-.020	.49	.069	-.002	-.0014	-.0241	.10
	.20	-.030	.50	.057	-.017	-.0010	-.0499	.20
	.30	-.048	.51	.012	-.030	-.0007	-.0744	.30
	.40	-.065	.50	-.094	-.000	-.0008	-.0845	.40
85	-.40	-.020	.59	-.056	.028	-.0020	.0872	-.40
	-.30	-.018	.51	-.029	.032	-.0021	.0712	-.30
	-.20	-.017	.50	.027	.023	-.0021	.0576	-.20
	-.10	-.020	.47	.032	.010	-.0019	.0298	-.10
	-.05	-.019	.47	.028	.007	-.0017	.0150	-.05
	0.00	-.013	.46	.032	.008	-.0015	.0024	0.00
	0.00	-.010	.46	.022	.007	-.0015	.0014	0.00
	.05	-.021	.46	.027	.004	-.0014	-.0111	.05
	.10	-.021	.47	.026	.004	-.0012	-.0260	.10
	.20	-.019	.50	.025	-.004	-.0010	-.0531	.20
	.30	-.017	.50	-.036	-.003	-.0008	-.0663	.30
	.40	-.019	.58	-.060	.010	-.0009	-.0798	.40
90	-.40	-.009	.56	-.023	.005	-.0019	.0817	-.40
	-.30	-.005	.49	-.024	.007	-.0020	.0683	-.30
	-.20	-.009	.43	-.026	.003	-.0019	.0521	-.20
	-.10	-.012	.43	-.027	.003	-.0017	.0281	-.10
	-.05	-.013	.43	-.024	.005	-.0016	.0140	-.05
	0.00	-.006	.43	-.024	.004	-.0015	.0020	0.00
	0.00	-.005	.44	-.023	.004	-.0014	.0006	0.00
	.05	-.012	.45	-.022	.009	-.0013	-.0118	.05
	.10	-.010	.42	-.026	.011	-.0011	-.0243	.10
	.20	-.011	.45	-.023	.016	-.0010	-.0506	.20
	.30	-.005	.48	-.026	.017	-.0010	-.0605	.30
	.40	-.014	.56	-.020	.020	-.0008	-.0757	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.002	.12	.038	.023	-.0016	.0097	-.40
	-.30	.003	.05	.005	.011	-.0014	.0048	-.30
	-.20	.003	.03	-.003	.004	-.0012	.0021	-.20
	-.10	.004	.03	-.002	.000	-.0011	.0008	-.10
	-.05	.004	.03	-.000	.001	-.0011	.0005	-.05
	0.00	.004	.03	-.010	.002	-.0011	.0003	0.00
	0.00	.004	.03	-.011	.001	-.0011	.0002	0.00
	.05	.004	.03	-.002	.000	-.0012	.0001	.05
	.10	.004	.03	-.003	.002	-.0012	.0004	.10
	.20	.004	.03	-.003	.003	-.0012	.0011	.20
	.30	.003	.05	.008	.006	-.0012	.0024	.30
	.40	.002	.13	.043	.014	-.0014	.0054	.40

5	-.40	-.002	.14	.042	.020	-.0016	.0127	-.40
	-.30	.003	.07	.011	.009	-.0015	.0073	-.30
	-.20	.004	.04	.004	.003	-.0013	.0038	-.20
	-.10	.004	.03	.006	.001	-.0012	.0014	-.10
	-.05	.004	.04	.008	.003	-.0012	.0009	-.05
	0.00	.003	.03	.001	.004	-.0011	.0002	0.00
	0.00	.004	.03	.000	.004	-.0011	.0003	0.00
	.05	.004	.03	.008	.006	-.0011	.0002	.05
	.10	.004	.03	.006	.009	-.0011	.0000	.10
	.20	.004	.04	.005	.012	-.0011	-.0004	.20
	.30	.003	.06	.013	.017	-.0012	.0001	.30
	.40	-.003	.14	.045	.025	-.0014	.0016	.40

10	-.40	.022	.19	.096	.030	-.0017	.0149	-.40
	-.30	.012	.09	.035	.016	-.0016	.0077	-.30
	-.20	-.000	.04	.011	.007	-.0014	.0031	-.20
	-.10	-.011	.03	.003	.004	-.0012	.0001	-.10
	-.05	-.013	.03	.002	.005	-.0012	-.0007	-.05
	0.00	-.016	.03	.006	.005	-.0011	-.0009	0.00
	0.00	-.016	.03	.006	.004	-.0012	-.0010	0.00
	.05	-.010	.03	.003	.003	-.0011	-.0014	.05
	.10	-.007	.03	.004	.005	-.0011	-.0011	.10
	.20	.001	.04	.013	.008	-.0011	-.0007	.20
	.30	.011	.09	.038	.016	-.0011	.0005	.30
	.40	.017	.20	.099	.026	-.0011	.0025	.40

15	-.40	-.053	.15	.092	.051	-.0017	.0230	-.40
	-.30	-.023	.09	.035	.033	-.0016	.0095	-.30
	-.20	-.010	.07	.019	.016	-.0015	.0043	-.20
	-.10	-.006	.07	.013	.007	-.0013	.0014	-.10
	-.05	-.006	.07	.014	.005	-.0012	.0009	-.05
	0.00	-.005	.07	.009	-.000	-.0011	.0008	0.00
	0.00	-.005	.07	.009	-.001	-.0011	.0007	0.00
	.05	-.005	.07	.013	-.002	-.0011	.0012	.05
	.10	-.006	.07	.013	-.001	-.0011	.0008	.10
	.20	-.011	.07	.020	-.001	-.0011	-.0003	.20
	.30	-.025	.10	.040	-.001	-.0011	-.0015	.30
	.40	-.056	.16	.098	.009	-.0009	-.0102	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.074	.23	.093	.063	-.0018	.0501	-.40
	-.30	-.024	.15	.041	.041	-.0017	.0340	-.30
	-.20	.001	.11	.022	.036	-.0015	.0135	-.20
	-.10	.011	.09	.017	.023	-.0014	.0021	-.10
	-.05	.012	.09	.019	.016	-.0012	.0001	-.05
	0.00	.004	.09	.026	.003	-.0011	.0000	0.00
	0.00	.004	.09	.027	.002	-.0011	.0001	0.00
	.05	.011	.09	.019	-.011	-.0012	.0012	.05
	.10	.009	.10	.017	-.019	-.0011	-.0003	.10
	.20	-.000	.11	.023	-.027	-.0009	-.0081	.20
	.30	-.025	.15	.043	-.016	-.0007	-.0222	.30
	.40	-.072	.25	.089	-.015	-.0004	-.0278	.40
25	-.40	-.034	.27	.093	.082	-.0018	.0722	-.40
	-.30	-.005	.18	.049	.051	-.0016	.0546	-.30
	-.20	.002	.15	.028	.044	-.0015	.0336	-.20
	-.10	.002	.13	.025	.040	-.0013	.0129	-.10
	-.05	-.001	.13	.027	.029	-.0013	.0042	-.05
	0.00	.002	.12	.028	.009	-.0011	-.0001	0.00
	0.00	.003	.12	.028	.010	-.0011	-.0002	0.00
	.05	-.002	.13	.030	-.029	-.0011	-.0030	.05
	.10	.001	.14	.027	-.044	-.0010	-.0104	.10
	.20	.000	.15	.034	-.042	-.0008	-.0252	.20
	.30	-.005	.19	.041	-.030	-.0003	-.0359	.30
	.40	-.037	.28	.080	-.018	.0003	-.0469	.40
30	-.40	-.035	.30	.075	.106	-.0015	.0718	-.40
	-.30	-.006	.23	.040	.068	-.0017	.0589	-.30
	-.20	-.003	.20	.031	.052	-.0016	.0455	-.20
	-.10	-.011	.19	.031	.054	-.0015	.0273	-.10
	-.05	-.013	.19	.031	.038	-.0014	.0172	-.05
	0.00	-.009	.17	.043	.007	-.0011	.0008	0.00
	0.00	-.009	.17	.042	.015	-.0011	.0016	0.00
	.05	-.016	.19	.035	-.027	-.0012	-.0111	.05
	.10	-.014	.19	.034	-.044	-.0011	-.0232	.10
	.20	-.005	.21	.031	-.052	-.0005	-.0331	.20
	.30	-.004	.24	.037	-.056	.0001	-.0424	.30
	.40	-.030	.32	.067	-.070	.0010	-.0458	.40
35	-.40	-.065	.35	.079	.068	-.0016	.0537	-.40
	-.30	-.022	.28	.031	.077	-.0017	.0576	-.30
	-.20	-.011	.25	.031	.076	-.0018	.0409	-.20
	-.10	-.011	.24	.048	.065	-.0016	.0281	-.10
	-.05	-.013	.24	.055	.047	-.0014	.0232	-.05
	0.00	-.014	.21	.053	.019	-.0013	.0084	0.00
	0.00	-.014	.21	.053	.020	-.0013	.0087	0.00
	.05	-.016	.23	.062	-.029	-.0011	-.0142	.05
	.10	-.012	.24	.053	-.060	-.0009	-.0226	.10
	.20	-.012	.26	.031	-.081	-.0004	-.0319	.20
	.30	-.023	.30	.014	-.078	.0004	-.0456	.30
	.40	-.069	.38	.076	-.021	.0008	-.0183	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.115	.49	.183	.056	-.0012	.0261	-.40
	-.30	-.044	.33	.102	.041	-.0019	.0227	-.30
	-.20	-.015	.30	.040	.082	-.0020	.0480	-.20
	-.10	-.007	.29	.049	.066	-.0017	.0367	-.10
	-.05	-.008	.27	.058	.055	-.0015	.0256	-.05
	0.00	-.011	.24	.065	.036	-.0015	.0158	0.00
	0.00	-.011	.25	.064	.041	-.0015	.0173	0.00
	.05	-.008	.26	.074	-.004	-.0012	-.0018	.05
	.10	-.009	.27	.068	-.037	-.0010	-.0135	.10
	.20	-.016	.30	.050	-.067	-.0004	-.0406	.20
	.30	-.042	.33	.069	-.037	-.0000	-.0316	.30
	.40	-.118	.51	.172	.004	-.0004	.0093	.40
45	-.40	-.101	.52	.259	.087	-.0006	.0720	-.40
	-.30	-.046	.45	.202	.022	-.0007	.0124	-.30
	-.20	-.018	.33	.086	.048	-.0019	.0340	-.20
	-.10	-.014	.33	.079	.038	-.0022	.0547	-.10
	-.05	-.015	.33	.082	.028	-.0019	.0445	-.05
	0.00	-.010	.33	.088	.023	-.0018	.0376	0.00
	0.00	-.011	.33	.089	.029	-.0019	.0384	0.00
	.05	-.016	.34	.095	.012	-.0016	.0309	.05
	.10	-.017	.34	.104	.000	-.0014	.0228	.10
	.20	-.020	.35	.111	-.017	-.0008	-.0013	.20
	.30	-.040	.45	.190	.011	-.0012	.0016	.30
	.40	-.091	.52	.227	-.048	-.0007	-.0523	.40
50	-.40	-.094	.47	.185	.174	-.0021	.1192	-.40
	-.30	-.054	.46	.216	.080	-.0003	.0482	-.30
	-.20	-.034	.43	.175	.005	-.0007	-.0044	-.20
	-.10	-.027	.41	.112	.099	-.0033	.0747	-.10
	-.05	-.029	.42	.125	.083	-.0031	.0633	-.05
	0.00	-.025	.41	.131	.065	-.0030	.0542	0.00
	0.00	-.028	.41	.135	.073	-.0030	.0561	0.00
	.05	-.035	.44	.156	.061	-.0029	.0499	.05
	.10	-.034	.44	.170	.051	-.0029	.0403	.10
	.20	-.038	.44	.203	.015	-.0023	.0144	.20
	.30	-.052	.46	.209	-.048	-.0017	-.0320	.30
	.40	-.091	.47	.144	-.128	.0018	-.1169	.40
55	-.40	-.108	.49	.136	.201	-.0043	.1635	-.40
	-.30	-.060	.49	.198	.127	-.0017	.0870	-.30
	-.20	-.044	.49	.232	.017	.0006	.0052	-.20
	-.10	-.031	.44	.144	.126	-.0048	.1002	-.10
	-.05	-.033	.44	.159	.105	-.0047	.0852	-.05
	0.00	-.027	.44	.171	.082	-.0044	.0702	0.00
	0.00	-.028	.43	.170	.082	-.0044	.0706	0.00
	.05	-.030	.45	.184	.057	-.0040	.0504	.05
	.10	-.031	.46	.192	.036	-.0036	.0289	.10
	.20	-.039	.47	.208	-.031	-.0024	-.0136	.20
	.30	-.062	.49	.182	-.107	.0005	-.0893	.30
	.40	-.121	.50	.122	-.125	.0043	-.1588	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A3

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
60	-.40	-.092	.49	.088	.191	-.0059	.1798	-.40
	-.30	-.055	.50	.171	.164	-.0048	.1386	-.30
	-.20	-.040	.50	.212	.093	-.0020	.0682	-.20
	-.10	-.039	.47	.174	.101	-.0052	.0886	-.10
	-.05	-.041	.47	.187	.076	-.0048	.0695	-.05
	0.00	-.050	.47	.200	.057	-.0045	.0549	0.00
	0.00	-.052	.47	.199	.059	-.0046	.0548	0.00
	.05	-.045	.48	.205	.018	-.0034	.0235	.05
	.10	-.044	.48	.207	-.013	-.0025	-.0029	.10
	.20	-.043	.48	.202	-.071	-.0002	-.0608	.20
	.30	-.056	.49	.160	-.136	.0032	-.1369	.30
	.40	-.092	.50	.105	-.092	.0034	-.1348	.40
65	-.40	-.080	.56	.073	.128	-.0043	.1453	-.40
	-.30	-.056	.53	.188	.098	-.0030	.0947	-.30
	-.20	-.044	.51	.204	.056	-.0024	.0534	-.20
	-.10	-.047	.50	.216	.031	-.0024	.0305	-.10
	-.05	-.050	.51	.238	.008	-.0019	.0110	-.05
	0.00	-.037	.52	.240	-.008	-.0014	-.0055	0.00
	0.00	-.038	.51	.231	-.005	-.0016	-.0047	0.00
	.05	-.051	.51	.242	-.031	-.0003	-.0304	.05
	.10	-.048	.50	.226	-.065	.0007	-.0614	.10
	.20	-.048	.50	.198	-.105	.0022	-.1030	.20
	.30	-.056	.52	.164	-.084	.0024	-.1080	.30
	.40	-.083	.57	.080	-.064	.0029	-.1297	.40
70	-.40	-.136	.61	.081	.134	-.0045	.1601	-.40
	-.30	-.074	.53	.114	.096	-.0039	.1103	-.30
	-.20	-.043	.50	.171	.067	-.0034	.0734	-.20
	-.10	-.035	.49	.192	.058	-.0035	.0560	-.10
	-.05	-.035	.49	.199	.043	-.0031	.0392	-.05
	0.00	-.027	.49	.210	.032	-.0027	.0245	0.00
	0.00	-.036	.51	.214	.029	-.0026	.0241	0.00
	.05	-.044	.50	.210	.010	-.0021	.0050	.05
	.10	-.044	.50	.208	-.016	-.0012	-.0220	.10
	.20	-.045	.50	.175	-.064	.0006	-.0748	.20
	.30	-.072	.53	.119	-.067	.0019	-.1021	.30
	.40	-.127	.61	.075	-.059	.0033	-.1396	.40
75	-.40	-.086	.60	.002	.103	-.0033	.1334	-.40
	-.30	-.055	.56	.090	.099	-.0042	.1198	-.30
	-.20	-.032	.52	.144	.060	-.0033	.0747	-.20
	-.10	-.031	.51	.175	.022	-.0023	.0326	-.10
	-.05	-.030	.51	.174	.010	-.0020	.0172	-.05
	0.00	-.025	.51	.172	.002	-.0015	.0012	0.00
	0.00	-.023	.51	.178	-.002	-.0015	-.0007	0.00
	.05	-.027	.50	.173	-.022	-.0009	-.0217	.05
	.10	-.028	.51	.168	-.034	-.0003	-.0415	.10
	.20	-.038	.51	.149	-.055	.0010	-.0758	.20
	.30	-.060	.56	.103	-.064	.0022	-.1101	.30
	.40	-.093	.60	.003	-.024	.0019	-.1169	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SDB5A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.115	.62	.012	.085	-.0032	.1271	-.40
	-.30	-.069	.59	.114	.092	-.0043	.1206	-.30
	-.20	-.029	.56	.135	.052	-.0034	.0791	-.20
	-.10	-.019	.53	.151	.024	-.0024	.0391	-.10
	-.05	-.016	.52	.151	.009	-.0018	.0171	-.05
	0.00	-.015	.49	.140	.004	-.0013	-.0002	0.00
	0.00	-.015	.51	.139	.007	-.0014	.0013	0.00
	.05	-.020	.53	.151	-.012	-.0009	-.0205	.05
	.10	-.022	.53	.150	-.021	-.0004	-.0395	.10
	.20	-.036	.55	.147	-.041	.0008	-.0772	.20
	.30	-.064	.58	.083	-.046	.0017	-.1043	.30
	.40	-.112	.62	.024	-.028	.0016	-.1189	.40
85	-.40	-.084	.70	.021	.079	-.0036	.1265	-.40
	-.30	-.039	.58	.063	.053	-.0033	.0950	-.30
	-.20	-.030	.55	.144	.043	-.0035	.0823	-.20
	-.10	-.026	.50	.145	.016	-.0024	.0407	-.10
	-.05	-.025	.50	.139	.006	-.0019	.0189	-.05
	0.00	-.020	.50	.146	.002	-.0013	.0006	0.00
	0.00	-.022	.51	.142	.002	-.0013	.0002	0.00
	.05	-.024	.50	.140	-.007	-.0009	-.0202	.05
	.10	-.024	.50	.143	-.013	-.0004	-.0409	.10
	.20	-.031	.56	.144	-.031	.0006	-.0812	.20
	.30	-.042	.60	.063	-.030	.0007	-.0903	.30
	.40	-.090	.69	.022	-.025	.0012	-.1145	.40
90	-.40	-.065	.63	.095	.053	-.0038	.1227	-.40
	-.30	-.032	.56	.074	.031	-.0030	.0894	-.30
	-.20	-.018	.49	.054	.011	-.0027	.0659	-.20
	-.10	-.020	.50	.057	.006	-.0022	.0371	-.10
	-.05	-.020	.50	.060	.005	-.0018	.0183	-.05
	0.00	-.014	.51	.091	.004	-.0013	.0013	0.00
	0.00	-.012	.50	.071	-.001	-.0013	.0018	0.00
	.05	-.022	.50	.054	.003	-.0010	-.0177	.05
	.10	-.021	.48	.047	.005	-.0007	-.0359	.10
	.20	-.020	.49	.047	.001	-.0001	-.0651	.20
	.30	-.031	.55	.077	-.007	.0002	-.0847	.30
	.40	-.064	.63	.095	-.019	.0010	-.1172	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC1B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.003	.13	.093	.013	-.0013	.0128	-.40
	-.30	-.002	.05	.031	.005	-.0014	.0060	-.30
	-.20	-.002	.02	.006	.002	-.0013	.0018	-.20
	-.10	-.002	.02	.001	.001	-.0013	-.0002	-.10
	-.05	-.002	.02	.001	.002	-.0013	-.0005	-.05
	0.00	-.000	.02	-.000	-.001	-.0014	-.0009	0.00
	0.00	.001	.02	-.000	-.002	-.0012	-.0009	0.00
	.05	.002	.02	.001	-.003	-.0012	-.0015	.05
	.10	.002	.02	.002	-.001	-.0012	-.0008	.10
	.20	.002	.02	.008	.002	-.0013	.0009	.20
	.30	.000	.05	.033	.006	-.0013	.0044	.30
	.40	-.002	.13	.097	.017	-.0014	.0104	.40

5	-.40	-.014	.14	.101	.015	-.0009	.0164	-.40
	-.30	-.003	.06	.042	.003	-.0011	.0082	-.30
	-.20	.001	.03	.020	-.002	-.0012	.0029	-.20
	-.10	.002	.03	.016	-.004	-.0013	-.0003	-.10
	-.05	.002	.03	.016	-.001	-.0014	-.0008	-.05
	0.00	.003	.01	.009	-.004	-.0014	-.0011	0.00
	0.00	.003	.01	.009	-.002	-.0015	-.0009	0.00
	.05	.004	.03	.016	.003	-.0014	-.0009	.05
	.10	.004	.03	.016	.006	-.0015	-.0007	.10
	.20	.003	.03	.022	.009	-.0014	.0002	.20
	.30	-.002	.06	.044	.015	-.0014	.0026	.30
	.40	-.015	.14	.106	.025	-.0013	.0072	.40

10	-.40	-.033	.20	.143	.007	-.0004	.0180	-.40
	-.30	-.004	.09	.069	-.003	-.0009	.0097	-.30
	-.20	.008	.05	.041	-.005	-.0011	.0043	-.20
	-.10	.013	.04	.035	-.005	-.0013	.0008	-.10
	-.05	.014	.04	.035	-.001	-.0014	-.0001	-.05
	0.00	.013	.04	.033	-.005	-.0015	-.0013	0.00
	0.00	.013	.04	.033	-.004	-.0015	-.0012	0.00
	.05	.015	.03	.035	-.001	-.0015	-.0021	.05
	.10	.014	.04	.037	.005	-.0015	-.0018	.10
	.20	.010	.05	.047	.014	-.0016	-.0007	.20
	.30	-.004	.10	.077	.030	-.0014	.0033	.30
	.40	-.034	.21	.151	.050	-.0013	.0098	.40

15	-.40	.021	.18	.149	.004	.0001	.0141	-.40
	-.30	.013	.11	.083	-.010	-.0006	.0068	-.30
	-.20	-.003	.09	.065	-.013	-.0010	.0017	-.20
	-.10	-.017	.09	.062	-.010	-.0012	-.0011	-.10
	-.05	-.021	.09	.063	-.006	-.0014	-.0015	-.05
	0.00	-.008	.07	.059	-.001	-.0015	-.0012	0.00
	0.00	-.008	.07	.060	-.000	-.0015	-.0013	0.00
	.05	.020	.09	.065	.004	-.0015	-.0006	.05
	.10	-.016	.09	.065	.010	-.0015	.0004	.10
	.20	-.002	.09	.070	.022	-.0016	.0026	.20
	.30	.013	.12	.091	.036	-.0016	.0081	.30
	.40	.019	.19	.151	.054	-.0014	.0159	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC1B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.068	.30	.186	.012	.0006	-.0014	-.40
	-.30	-.021	.19	.114	-.009	-.0003	-.0092	-.30
	-.20	-.002	.13	.088	-.011	-.0007	-.0093	-.20
	-.10	.002	.12	.083	-.002	-.0011	-.0074	-.10
	-.05	.002	.11	.086	.003	-.0013	-.0054	-.05
	0.00	.011	.12	.092	.004	-.0014	-.0016	0.00
	0.00	.011	.12	.093	.005	-.0015	-.0011	0.00
	.05	.001	.11	.089	-.000	-.0015	.0005	.05
	.10	.001	.12	.089	.003	-.0016	.0044	.10
	.20	-.002	.14	.096	.017	-.0018	.0128	.20
	.30	-.018	.20	.123	.036	-.0018	.0251	.30
	.40	-.064	.31	.197	.060	-.0015	.0319	.40
25	-.40	-.088	.34	.204	.011	.0010	.0057	-.40
	-.30	-.030	.24	.140	-.003	.0002	-.0117	-.30
	-.20	-.005	.20	.111	.002	-.0005	-.0217	-.20
	-.10	.003	.18	.116	.003	-.0010	-.0130	-.10
	-.05	.002	.17	.121	-.002	-.0013	-.0057	-.05
	0.00	.004	.16	.119	.001	-.0015	-.0007	0.00
	0.00	.004	.16	.119	.004	-.0015	-.0002	0.00
	.05	.000	.17	.130	.003	-.0016	.0027	.05
	.10	.001	.17	.128	.009	-.0018	.0087	.10
	.20	-.006	.20	.121	.004	-.0021	.0271	.20
	.30	-.031	.26	.145	.026	-.0020	.0378	.30
	.40	-.090	.36	.205	.054	-.0017	.0415	.40
30	-.40	-.067	.41	.257	.011	.0013	.0071	-.40
	-.30	-.019	.32	.192	-.016	.0005	-.0045	-.30
	-.20	-.004	.27	.160	-.030	-.0002	-.0141	-.20
	-.10	-.005	.24	.151	-.024	-.0008	-.0103	-.10
	-.05	-.008	.23	.152	-.014	-.0012	-.0054	-.05
	0.00	-.003	.22	.156	-.003	-.0015	-.0003	0.00
	0.00	-.003	.22	.156	.001	-.0015	.0000	0.00
	.05	-.007	.22	.158	.011	-.0019	.0046	.05
	.10	-.005	.24	.158	.022	-.0021	.0123	.10
	.20	-.005	.28	.173	.011	-.0023	.0319	.20
	.30	-.022	.34	.204	.019	-.0021	.0436	.30
	.40	-.073	.44	.272	.056	-.0019	.0366	.40
35	-.40	-.061	.47	.252	.042	.0017	.0124	-.40
	-.30	-.016	.38	.231	-.006	.0006	-.0075	-.30
	-.20	-.002	.35	.200	-.028	-.0002	-.0071	-.20
	-.10	-.007	.33	.190	-.037	-.0006	-.0149	-.10
	-.05	-.012	.31	.188	-.035	-.0009	-.0091	-.05
	0.00	-.006	.27	.201	-.006	-.0015	-.0020	0.00
	0.00	-.007	.27	.203	-.002	-.0014	-.0001	0.00
	.05	-.014	.31	.201	.020	-.0020	.0103	.05
	.10	-.011	.33	.203	.017	-.0022	.0239	.10
	.20	-.007	.37	.226	.027	-.0024	.0225	.20
	.30	-.017	.41	.234	.033	-.0022	.0374	.30
	.40	-.061	.49	.236	.023	-.0019	.0304	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC1B4R3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.091	.54	.234	.054	.0018	.0440	-.40
	-.30	-.032	.44	.240	.036	.0006	.0101	-.30
	-.20	-.011	.42	.243	.003	-.0001	-.0159	-.20
	-.10	-.010	.41	.229	-.020	-.0006	-.0276	-.10
	-.05	-.013	.38	.216	-.025	-.0009	-.0185	-.05
	0.00	-.007	.34	.238	-.008	-.0015	-.0016	0.00
	0.00	-.006	.34	.240	-.007	-.0015	-.0015	0.00
	.05	-.016	.38	.228	.015	-.0021	.0158	.05
	.10	-.012	.41	.239	.015	-.0022	.0306	.10
	.20	-.013	.45	.265	.001	-.0024	.0263	.20
	.30	-.030	.48	.236	-.016	-.0022	.0143	.30
	.40	-.087	.54	.230	.007	-.0020	-.0143	.40
45	-.40	-.081	.49	.179	.091	.0018	.0820	-.40
	-.30	-.023	.46	.208	.074	.0007	.0369	-.30
	-.20	-.010	.46	.246	.050	-.0001	.0039	-.20
	-.10	-.014	.47	.266	.007	-.0006	-.0248	-.10
	-.05	-.016	.46	.256	-.006	-.0009	-.0294	-.05
	0.00	-.025	.39	.268	-.008	-.0015	.0010	0.00
	0.00	-.027	.39	.270	-.004	-.0015	.0028	0.00
	.05	-.016	.46	.262	-.004	-.0020	.0278	.05
	.10	-.014	.47	.272	-.008	-.0021	.0271	.10
	.20	-.012	.47	.266	-.034	-.0021	.0053	.20
	.30	-.026	.48	.217	-.047	-.0023	-.0177	.30
	.40	-.084	.51	.173	.005	-.0021	-.0427	.40
50	-.40	-.102	.51	.139	.107	.0018	.0973	-.40
	-.30	-.034	.48	.209	.074	.0007	.0592	-.30
	-.20	-.013	.49	.262	.055	-.0002	.0264	-.20
	-.10	-.009	.49	.279	.022	-.0008	-.0049	-.10
	-.05	-.010	.49	.279	-.001	-.0010	-.0176	-.05
	0.00	-.016	.45	.293	-.007	-.0015	.0045	0.00
	0.00	-.019	.45	.286	.002	-.0015	.0078	0.00
	.05	-.012	.49	.283	-.017	-.0019	.0180	.05
	.10	-.010	.49	.284	-.030	-.0020	.0071	.10
	.20	-.015	.50	.277	-.053	-.0022	-.0197	.20
	.30	-.034	.49	.220	-.032	-.0025	-.0406	.30
	.40	-.105	.51	.148	-.005	-.0026	-.0665	.40
55	-.40	-.066	.52	.082	.134	.0019	.1193	-.40
	-.30	-.024	.49	.174	.089	.0006	.0762	-.30
	-.20	-.020	.51	.250	.067	-.0004	.0494	-.20
	-.10	-.026	.52	.292	.031	-.0010	.0141	-.10
	-.05	-.031	.50	.292	.015	-.0013	.0040	-.05
	0.00	-.025	.49	.299	-.008	-.0014	.0022	0.00
	0.00	-.029	.49	.303	.003	-.0015	.0042	0.00
	.05	-.035	.51	.300	-.017	-.0017	-.0009	.05
	.10	-.028	.52	.297	-.036	-.0017	-.0140	.10
	.20	-.023	.51	.264	-.061	-.0022	-.0407	.20
	.30	-.022	.49	.193	-.052	-.0025	-.0597	.30
	.40	-.065	.53	.086	-.035	-.0025	-.0855	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC1B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.083	.57	.061	.126	.0018	.1281	-.40
	-.30	-.030	.50	.133	.090	.0005	.0856	-.30
	-.20	-.025	.51	.237	.069	-.0004	.0577	-.20
	-.10	-.029	.53	.292	.034	-.0010	.0251	-.10
	-.05	-.031	.51	.295	.018	-.0014	.0134	-.05
	0.00	-.011	.53	.293	-.006	-.0015	.0005	0.00
	0.00	-.013	.53	.305	-.006	-.0015	.0018	0.00
	.05	-.029	.51	.301	-.019	-.0017	-.0115	.05
	.10	-.026	.52	.295	-.032	-.0019	-.0246	.10
	.20	-.021	.51	.234	-.044	-.0024	-.0437	.20
	.30	-.031	.50	.137	-.051	-.0026	-.0709	.30
	.40	-.085	.59	.063	-.039	-.0030	-.0968	.40
65	-.40	-.073	.58	.079	.144	.0018	.1342	-.40
	-.30	-.023	.52	.110	.089	.0004	.0927	-.30
	-.20	-.010	.50	.179	.053	-.0005	.0544	-.20
	-.10	-.021	.52	.259	.026	-.0010	.0304	-.10
	-.05	-.028	.53	.269	.009	-.0013	.0132	-.05
	0.00	-.023	.52	.294	-.006	-.0015	.0003	0.00
	0.00	-.021	.52	.298	-.009	-.0015	-.0008	0.00
	.05	-.026	.54	.278	-.024	-.0017	-.0153	.05
	.10	-.023	.53	.265	-.037	-.0019	-.0309	.10
	.20	-.014	.51	.190	-.043	-.0023	-.0505	.20
	.30	-.021	.53	.122	-.044	-.0026	-.0783	.30
	.40	-.070	.58	.071	-.020	-.0029	-.1004	.40
70	-.40	-.087	.59	.046	.130	.0018	.1353	-.40
	-.30	-.027	.54	.085	.082	.0005	.0949	-.30
	-.20	.003	.51	.136	.052	-.0004	.0601	-.20
	-.10	-.008	.51	.209	.020	-.0009	.0255	-.10
	-.05	-.012	.51	.228	.009	-.0012	.0131	-.05
	0.00	-.000	.51	.242	-.002	-.0015	-.0004	0.00
	0.00	-.002	.51	.240	-.002	-.0015	.0002	0.00
	.05	-.010	.51	.226	-.016	-.0016	-.0141	.05
	.10	-.006	.51	.206	-.026	-.0018	-.0275	.10
	.20	.001	.51	.149	-.044	-.0023	-.0573	.20
	.30	-.026	.53	.084	-.041	-.0027	-.0814	.30
	.40	-.089	.60	.049	-.032	-.0031	-.1083	.40
75	-.40	-.108	.64	.029	.116	.0016	.1355	-.40
	-.30	-.033	.57	.049	.075	.0004	.0975	-.30
	-.20	.007	.53	.106	.044	-.0005	.0631	-.20
	-.10	.012	.51	.162	.020	-.0010	.0288	-.10
	-.05	.015	.51	.174	.008	-.0013	.0129	-.05
	0.00	.009	.53	.184	-.005	-.0015	-.0016	0.00
	0.00	.008	.53	.192	-.006	-.0015	-.0023	0.00
	.05	.016	.51	.174	-.013	-.0016	-.0155	.05
	.10	.015	.50	.164	-.022	-.0018	-.0311	.10
	.20	.005	.53	.125	-.034	-.0023	-.0611	.20
	.30	-.031	.58	.061	-.040	-.0028	-.0867	.30
	.40	-.111	.66	.037	-.036	-.0032	-.1123	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC1B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.084	.64	.009	.106	.0015	.1350	-.40
	-.30	-.020	.57	.046	.067	.0003	.0966	-.30
	-.20	.007	.53	.103	.041	-.0006	.0656	-.20
	-.10	.014	.52	.136	.016	-.0011	.0314	-.10
	-.05	.014	.52	.144	.007	-.0014	.0143	-.05
	0.00	.012	.53	.155	.002	-.0015	-.0001	0.00
	0.00	.011	.53	.152	-.000	-.0016	.0002	0.00
	.05	.011	.52	.145	-.009	-.0016	-.0163	.05
	.10	.011	.52	.135	-.016	-.0019	-.0325	.10
	.20	.007	.54	.098	-.026	-.0024	-.0646	.20
	.30	-.017	.58	.055	-.038	-.0029	-.0904	.30
	.40	-.078	.64	.008	-.039	-.0034	-.1186	.40
85	-.40	-.064	.64	.018	.100	.0010	.1355	-.40
	-.30	-.008	.58	.064	.065	.0000	.0986	-.30
	-.20	.015	.55	.087	.033	-.0007	.0692	-.20
	-.10	.020	.53	.097	.009	-.0012	.0339	-.10
	-.05	.018	.53	.106	.004	-.0014	.0154	-.05
	0.00	.013	.52	.105	-.006	-.0016	-.0017	0.00
	0.00	.013	.52	.109	-.005	-.0016	-.0015	0.00
	.05	.021	.53	.107	-.005	-.0017	-.0169	.05
	.10	.023	.53	.098	-.009	-.0019	-.0353	.10
	.20	.016	.55	.084	-.016	-.0024	-.0690	.20
	.30	-.010	.58	.073	-.033	-.0029	-.0926	.30
	.40	-.067	.64	.029	-.044	-.0035	-.1221	.40
90	-.40	-.043	.65	.065	.079	.0006	.1299	-.40
	-.30	-.003	.58	.067	.051	-.0002	.0997	-.30
	-.20	.022	.52	.056	.018	-.0007	.0695	-.20
	-.10	.024	.52	.065	.005	-.0011	.0360	-.10
	-.05	.024	.52	.073	.001	-.0013	.0173	-.05
	0.00	.027	.52	.070	.000	-.0016	.0010	0.00
	0.00	.026	.52	.076	-.003	-.0016	-.0005	0.00
	.05	.021	.52	.073	-.006	-.0017	-.0188	.05
	.10	.022	.51	.064	-.007	-.0019	-.0359	.10
	.20	.018	.54	.067	-.013	-.0023	-.0700	.20
	.30	.002	.59	.075	-.027	-.0029	-.0971	.30
	.40	-.034	.66	.076	-.031	-.0033	-.1224	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC2B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.007	.09	.048	-.019	-.0012	-.0090	-.40
	-.30	-.006	.04	.018	-.008	-.0013	-.0050	-.30
	-.20	-.005	.02	.008	-.001	-.0013	-.0023	-.20
	-.10	-.004	.02	.007	.003	-.0014	-.0007	-.10
	-.05	-.004	.02	.008	.006	-.0014	-.0003	-.05
	0.00	-.006	.02	.007	.004	-.0013	-.0003	0.00
	0.00	-.005	.02	.007	.004	-.0013	-.0004	0.00
	.05	-.004	.03	.008	.004	-.0013	-.0005	.05
	.10	-.005	.03	.008	.004	-.0013	-.0009	.10
	.20	-.004	.02	.009	-.001	-.0013	-.0030	.20
	.30	-.006	.04	.020	-.010	-.0014	-.0067	.30
	.40	-.007	.09	.050	-.023	-.0014	-.0126	.40

5	-.40	-.019	.29	.075	-.027	-.0009	-.0043	-.40
	-.30	-.006	.15	.039	-.014	-.0012	-.0018	-.30
	-.20	.000	.07	.023	-.005	-.0012	-.0004	-.20
	-.10	.003	.03	.018	.001	-.0012	-.0001	-.10
	-.05	.004	.03	.018	.004	-.0013	-.0000	-.05
	0.00	.003	.02	.009	.002	-.0013	-.0003	0.00
	0.00	.004	.02	.009	.001	-.0012	-.0003	0.00
	.05	.004	.03	.018	.005	-.0013	-.0005	.05
	.10	.003	.03	.018	.008	-.0012	-.0013	.10
	.20	.001	.07	.024	.005	-.0012	-.0037	.20
	.30	-.006	.15	.040	-.002	-.0012	-.0076	.30
	.40	-.020	.30	.079	-.015	-.0011	-.0134	.40

10	-.40	-.005	.16	.063	-.026	-.0010	-.0036	-.40
	-.30	.006	.07	.027	-.014	-.0012	-.0016	-.30
	-.20	.008	.04	.017	-.007	-.0012	-.0003	-.20
	-.10	.008	.03	.015	-.002	-.0012	.0001	-.10
	-.05	.008	.03	.015	.001	-.0012	-.0001	-.05
	0.00	.009	.02	.015	-.002	-.0014	.0000	0.00
	0.00	.009	.02	.015	-.004	-.0014	-.0002	0.00
	.05	.009	.03	.016	.004	-.0014	-.0002	.05
	.10	.009	.03	.017	.006	-.0013	-.0009	.10
	.20	.009	.04	.020	.003	-.0013	-.0035	.20
	.30	.005	.07	.031	-.005	-.0011	-.0076	.30
	.40	-.006	.16	.067	-.017	-.0010	-.0133	.40

15	-.40	.001	.15	.077	-.020	-.0009	-.0050	-.40
	-.30	.006	.08	.037	-.005	-.0011	-.0030	-.30
	-.20	.002	.06	.025	.007	-.0012	-.0012	-.20
	-.10	-.004	.06	.022	.011	-.0013	-.0006	-.10
	-.05	-.005	.06	.022	.012	-.0014	-.0012	-.05
	0.00	.000	.07	.026	.003	-.0014	-.0011	0.00
	0.00	.001	.07	.026	.002	-.0015	-.0008	0.00
	.05	-.006	.06	.021	.003	-.0014	-.0009	.05
	.10	-.005	.06	.021	-.000	-.0014	-.0019	.10
	.20	.001	.06	.026	-.007	-.0014	-.0049	.20
	.30	.006	.09	.038	-.014	-.0012	-.0091	.30
	.40	.001	.15	.075	-.022	-.0010	-.0155	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.042	.22	.066	-.058	-.0008	-.0079	-.40
	-.30	-.008	.13	.041	-.026	-.0010	-.0005	-.30
	-.20	.005	.10	.035	.003	-.0012	.0023	-.20
	-.10	.006	.09	.034	.015	-.0012	.0037	-.10
	-.05	.007	.09	.038	.018	-.0013	.0030	-.05
	0.00	.009	.09	.035	.006	-.0014	.0014	0.00
	0.00	.007	.09	.034	.006	-.0014	.0014	0.00
	.05	.007	.09	.036	-.005	-.0014	-.0011	.05
	.10	.006	.09	.034	-.013	-.0014	-.0040	.10
	.20	.004	.10	.038	-.007	-.0013	-.0069	.20
	.30	-.011	.13	.046	.025	-.0011	-.0093	.30
	.40	-.043	.23	.075	.030	-.0009	-.0076	.40
25	-.40	.006	.29	.104	-.064	-.0009	-.0303	-.40
	-.30	.011	.21	.052	-.056	-.0010	-.0312	-.30
	-.20	.001	.15	.031	-.034	-.0012	-.0102	-.20
	-.10	-.011	.13	.039	-.010	-.0014	-.0024	-.10
	-.05	-.016	.13	.047	-.009	-.0014	-.0028	-.05
	0.00	-.004	.11	.046	.001	-.0014	.0015	0.00
	0.00	-.005	.11	.048	.000	-.0014	.0014	0.00
	.05	-.015	.13	.048	.012	-.0013	.0039	.05
	.10	-.011	.13	.041	.026	-.0013	.0100	.10
	.20	.001	.14	.042	.039	-.0012	.0150	.20
	.30	.014	.21	.051	.034	-.0009	.0229	.30
	.40	.007	.29	.112	.012	-.0006	.0145	.40
30	-.40	-.077	.34	.138	-.059	-.0009	-.0285	-.40
	-.30	-.031	.26	.106	-.034	-.0012	-.0345	-.30
	-.20	-.005	.22	.075	-.043	-.0012	-.0373	-.20
	-.10	.006	.20	.063	-.041	-.0013	-.0288	-.10
	-.05	.005	.18	.066	-.027	-.0013	-.0191	-.05
	0.00	-.009	.18	.078	-.001	-.0014	-.0023	0.00
	0.00	-.009	.18	.077	-.005	-.0014	-.0043	0.00
	.05	.011	.18	.066	.028	-.0013	.0161	.05
	.10	.010	.19	.061	.041	-.0013	.0177	.10
	.20	-.003	.21	.068	.054	-.0013	.0196	.20
	.30	-.033	.27	.102	.037	-.0011	.0120	.30
	.40	-.086	.36	.137	.048	-.0009	-.0070	.40
35	-.40	-.037	.41	.102	-.027	-.0009	-.0252	-.40
	-.30	-.007	.32	.095	-.047	-.0012	-.0375	-.30
	-.20	.001	.28	.092	-.043	-.0014	-.0459	-.20
	-.10	.000	.27	.097	-.056	-.0014	-.0418	-.10
	-.05	-.003	.27	.085	-.033	-.0013	-.0318	-.05
	0.00	-.016	.23	.084	-.008	-.0014	-.0058	0.00
	0.00	-.017	.23	.085	-.014	-.0014	-.0071	0.00
	.05	-.007	.26	.091	.059	-.0013	.0201	.05
	.10	-.004	.26	.099	.065	-.0012	.0314	.10
	.20	-.001	.28	.093	.044	-.0013	.0363	.20
	.30	-.004	.34	.081	.049	-.0012	.0254	.30
	.40	-.030	.43	.087	.016	-.0011	-.0045	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.064	.45	.110	-.010	-.0007	-.0134	-.40
	-.30	-.024	.37	.105	-.023	-.0011	-.0329	-.30
	-.20	-.006	.33	.093	-.016	-.0013	-.0451	-.20
	-.10	-.002	.33	.128	-.041	-.0014	-.0543	-.10
	-.05	-.001	.33	.116	-.043	-.0014	-.0465	-.05
	0.00	-.010	.29	.101	.006	-.0013	-.0032	0.00
	0.00	-.012	.29	.101	-.006	-.0013	-.0070	0.00
	.05	.001	.32	.118	.044	-.0012	.0466	.05
	.10	.000	.32	.121	.039	-.0012	.0531	.10
	.20	-.003	.34	.095	.010	-.0013	.0391	.20
	.30	-.022	.39	.102	.023	-.0012	.0304	.30
	.40	-.067	.46	.102	-.002	-.0013	-.0052	.40
45	-.40	-.071	.52	.171	-.047	-.0006	-.0042	-.40
	-.30	-.027	.43	.133	-.041	-.0010	-.0094	-.30
	-.20	-.009	.37	.144	-.045	-.0012	-.0392	-.20
	-.10	-.002	.39	.143	-.042	-.0014	-.0419	-.10
	-.05	-.004	.37	.153	-.035	-.0014	-.0560	-.05
	0.00	-.012	.34	.124	.006	-.0013	.0012	0.00
	0.00	-.011	.34	.119	-.004	-.0013	-.0049	0.00
	.05	-.004	.38	.144	.039	-.0012	.0549	.05
	.10	-.003	.40	.140	.037	-.0013	.0462	.10
	.20	-.010	.36	.138	.025	-.0013	.0264	.20
	.30	-.025	.42	.140	.020	-.0014	.0150	.30
	.40	-.071	.46	.153	.009	-.0013	-.0153	.40
50	-.40	-.061	.52	.225	-.041	-.0006	.0102	-.40
	-.30	-.024	.45	.170	-.035	-.0009	-.0139	-.30
	-.20	-.012	.42	.150	-.026	-.0012	-.0179	-.20
	-.10	-.011	.41	.158	-.003	-.0013	-.0116	-.10
	-.05	-.013	.42	.159	-.033	-.0015	-.0345	-.05
	0.00	.002	.40	.147	.013	-.0014	.0087	0.00
	0.00	.000	.41	.140	.009	-.0014	.0046	0.00
	.05	-.010	.42	.158	.037	-.0012	.0325	.05
	.10	-.009	.41	.158	-.003	-.0013	.0056	.10
	.20	-.012	.39	.142	.006	-.0014	-.0018	.20
	.30	-.025	.44	.159	.004	-.0013	-.0002	.30
	.40	-.063	.47	.141	-.023	-.0014	-.0239	.40
55	-.40	-.079	.57	.187	.030	-.0006	.0645	-.40
	-.30	-.034	.51	.176	-.033	-.0009	-.0053	-.30
	-.20	-.018	.46	.162	.034	-.0009	.0353	-.20
	-.10	-.014	.44	.171	.026	-.0012	.0225	-.10
	-.05	-.015	.44	.182	.035	-.0012	.0055	-.05
	0.00	-.021	.45	.158	.014	-.0014	.0138	0.00
	0.00	-.022	.45	.157	.009	-.0014	.0093	0.00
	.05	-.019	.45	.190	-.028	-.0013	-.0091	.05
	.10	-.017	.44	.175	-.022	-.0014	-.0170	.10
	.20	-.019	.46	.149	-.087	-.0015	-.0679	.20
	.30	-.035	.51	.163	-.008	-.0013	-.0125	.30
	.40	-.075	.48	.070	-.024	-.0017	-.0393	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.070	.56	.127	.023	-.0006	.0685	-.40
	-.30	-.031	.45	.104	.011	-.0007	.0363	-.30
	-.20	-.015	.46	.149	.043	-.0009	.0554	-.20
	-.10	-.012	.47	.191	.065	-.0011	.0471	-.10
	-.05	-.011	.46	.183	.028	-.0012	.0158	-.05
	0.00	-.013	.45	.180	.006	-.0013	.0028	0.00
	0.00	-.013	.45	.174	.006	-.0014	.0058	0.00
	.05	-.008	.46	.184	-.014	-.0014	-.0046	.05
	.10	-.010	.48	.198	-.060	-.0014	-.0422	.10
	.20	-.016	.46	.149	-.065	-.0015	-.0689	.20
	.30	-.031	.51	.137	-.097	-.0015	-.0971	.30
	.40	-.077	.50	.068	-.045	-.0017	-.0686	.40
65	-.40	-.059	.51	.015	.040	-.0004	.0865	-.40
	-.30	-.027	.50	.077	.059	-.0006	.0696	-.30
	-.20	-.013	.49	.142	.050	-.0009	.0585	-.20
	-.10	-.010	.50	.174	.031	-.0011	.0324	-.10
	-.05	-.011	.50	.184	.025	-.0011	.0212	-.05
	0.00	-.016	.49	.180	.009	-.0013	.0050	0.00
	0.00	-.019	.49	.187	.007	-.0013	.0046	0.00
	.05	-.013	.50	.185	-.015	-.0014	-.0130	.05
	.10	-.012	.49	.175	-.028	-.0014	-.0300	.10
	.20	-.015	.49	.146	-.065	-.0015	-.0681	.20
	.30	-.029	.46	.090	-.093	-.0016	-.1048	.30
	.40	-.062	.52	.031	-.073	-.0017	-.1073	.40
70	-.40	-.046	.66	.019	.034	-.0005	.0965	-.40
	-.30	-.022	.57	.074	.057	-.0007	.0812	-.30
	-.20	-.012	.53	.124	.052	-.0008	.0620	-.20
	-.10	-.011	.50	.157	.035	-.0011	.0381	-.10
	-.05	-.010	.48	.160	.022	-.0011	.0217	-.05
	0.00	-.005	.51	.167	.001	-.0013	.0013	0.00
	0.00	-.011	.50	.178	-.001	-.0012	.0031	0.00
	.05	-.010	.46	.173	-.012	-.0013	-.0126	.05
	.10	-.008	.48	.152	-.030	-.0012	-.0314	.10
	.20	-.011	.51	.131	-.065	-.0009	-.0703	.20
	.30	-.022	.54	.068	-.077	-.0004	-.0969	.30
	.40	-.048	.63	.018	-.092	.0002	-.1219	.40
75	-.40	-.062	.57	-.010	.029	-.0005	.1028	-.40
	-.30	-.017	.51	.011	.040	-.0006	.0845	-.30
	-.20	-.001	.50	.076	.045	-.0008	.0659	-.20
	-.10	.002	.51	.118	.033	-.0011	.0403	-.10
	-.05	.002	.51	.134	.020	-.0011	.0219	-.05
	0.00	-.004	.51	.150	.001	-.0013	.0020	0.00
	0.00	-.004	.52	.152	.006	-.0013	.0054	0.00
	.05	-.002	.51	.145	-.011	-.0014	-.0159	.05
	.10	-.002	.50	.123	-.027	-.0014	-.0351	.10
	.20	-.007	.51	.097	-.049	-.0015	-.0664	.20
	.30	-.016	.52	.020	-.066	-.0016	-.0945	.30
	.40	-.059	.57	.001	-.091	-.0017	-.1242	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4A3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.011	.65	.003	.026	-.0006	.1064	-.40
	-.30	.004	.54	.021	.036	-.0008	.0841	-.30
	-.20	.005	.49	.047	.036	-.0009	.0687	-.20
	-.10	-.004	.48	.082	.028	-.0011	.0420	-.10
	-.05	-.006	.48	.099	.017	-.0012	.0213	-.05
	0.00	.002	.49	.107	-.001	-.0013	.0014	0.00
	0.00	.000	.49	.114	.002	-.0013	.0015	0.00
	.05	-.007	.48	.108	-.008	-.0014	-.0184	.05
	.10	-.004	.49	.093	-.022	-.0014	-.0381	.10
	.20	.003	.49	.054	-.040	-.0015	-.0680	.20
	.30	.010	.54	.019	-.061	-.0016	-.0917	.30
	.40	-.005	.65	.010	-.078	-.0018	-.1228	.40
85	-.40	-.026	.54	.042	.016	-.0006	.1002	-.40
	-.30	-.006	.51	.039	.030	-.0010	.0862	-.30
	-.20	.008	.49	.033	.021	-.0011	.0674	-.20
	-.10	.009	.47	.023	.023	-.0013	.0432	-.10
	-.05	.009	.47	.026	.016	-.0012	.0210	-.05
	0.00	.007	.47	.044	.004	-.0013	.0011	0.00
	0.00	.007	.47	.033	.008	-.0013	.0025	0.00
	.05	.003	.47	.024	-.002	-.0014	-.0159	.05
	.10	.003	.49	.027	-.012	-.0014	-.0372	.10
	.20	.006	.48	.031	-.029	-.0015	-.0697	.20
	.30	-.005	.51	.044	-.052	-.0016	-.0912	.30
	.40	-.023	.54	.046	-.066	-.0018	-.1171	.40
90	-.40	-.018	.63	.049	-.006	-.0008	.0910	-.40
	-.30	.004	.56	.038	.018	-.0011	.0850	-.30
	-.20	.012	.50	.012	.009	-.0011	.0683	-.20
	-.10	.013	.49	-.005	.014	-.0012	.0419	-.10
	-.05	.014	.49	-.003	.010	-.0012	.0216	-.05
	0.00	.016	.48	-.002	.008	-.0013	.0016	0.00
	0.00	.018	.48	-.002	.010	-.0011	.0004	0.00
	.05	.019	.48	-.004	.001	-.0012	-.0191	.05
	.10	.017	.49	-.003	-.005	-.0014	-.0404	.10
	.20	.014	.51	.015	-.009	-.0015	-.0678	.20
	.30	.002	.57	.051	-.029	-.0015	-.0875	.30
	.40	-.024	.62	.045	-.030	-.0016	-.1036	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.021	.13	.027	-.024	.1683	.0246	-.40
	-.30	-.017	.03	.009	-.041	.1240	.0152	-.30
	-.20	-.016	-.00	.003	-.048	.0819	.0081	-.20
	-.10	-.012	-.01	.000	-.050	.0362	.0034	-.10
	-.05	-.011	-.00	-.002	-.051	.0148	.0022	-.05
	0.00	-.011	-.01	-.003	-.052	-.0012	.0022	0.00
	0.00	-.011	-.01	-.003	-.054	-.0013	.0023	0.00
	.05	-.011	-.01	-.000	-.048	-.0157	.0024	.05
	.10	-.012	-.01	.001	-.046	-.0371	.0033	.10
	.20	-.016	.00	.002	-.042	-.0814	.0073	.20
	.30	-.017	.05	.009	-.035	-.1224	.0141	.30
	.40	-.019	.16	.024	-.026	-.1654	.0241	.40

5	-.40	-.026	.48	.020	-.037	.1616	.0179	-.40
	-.30	-.016	.36	.010	-.046	.1163	.0115	-.30
	-.20	-.012	.33	.001	-.051	.0754	.0073	-.20
	-.10	-.012	.31	-.004	-.048	.0395	.0046	-.10
	-.05	-.013	.32	-.005	-.044	.0197	.0034	-.05
	0.00	-.011	.30	-.002	-.040	.0014	.0023	0.00
	0.00	-.011	.31	-.001	-.039	.0013	.0023	0.00
	.05	-.011	.31	-.004	-.042	-.0169	.0017	.05
	.10	-.011	.32	-.002	-.037	-.0386	.0018	.10
	.20	-.012	.33	.004	-.030	-.0745	.0058	.20
	.30	-.015	.39	.010	-.020	-.1155	.0131	.30
	.40	-.026	.52	.016	-.003	-.1615	.0228	.40

10	-.40	-.045	.84	.041	-.034	.1522	.0158	-.40
	-.30	-.028	.69	.021	-.043	.1058	.0098	-.30
	-.20	-.024	.63	.014	-.048	.0681	.0050	-.20
	-.10	-.024	.61	.010	-.048	.0319	.0027	-.10
	-.05	-.025	.62	.007	-.046	.0137	.0022	-.05
	0.00	-.022	.64	.008	-.045	.0008	.0022	0.00
	0.00	-.022	.64	.009	-.046	.0023	.0022	0.00
	.05	-.028	.63	.008	-.040	-.0107	.0027	.05
	.10	-.027	.62	.012	-.036	-.0282	.0041	.10
	.20	-.025	.64	.013	-.026	-.0650	.0075	.20
	.30	-.027	.72	.020	-.013	-.1034	.0134	.30
	.40	-.039	.85	.041	-.001	-.1450	.0239	.40

15	-.40	-.051	1.15	.030	-.021	.1326	.0119	-.40
	-.30	-.030	1.01	.027	-.036	.0927	.0061	-.30
	-.20	-.025	.94	.028	-.045	.0564	.0028	-.20
	-.10	-.028	.93	.032	-.048	.0269	.0016	-.10
	-.05	-.029	.93	.032	-.045	.0122	.0013	-.05
	0.00	-.029	.93	.039	-.047	.0010	.0016	0.00
	0.00	-.030	.94	.038	-.047	.0015	.0015	0.00
	.05	-.029	.93	.036	-.043	-.0098	.0026	.05
	.10	-.028	.94	.036	-.038	-.0236	.0043	.10
	.20	-.026	.97	.030	-.027	-.0534	.0094	.20
	.30	-.031	1.03	.024	-.011	-.0876	.0164	.30
	.40	-.052	1.19	.024	.019	-.1252	.0253	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.061	1.48	.028	-.036	.1174	.0080	-.40
	-.30	-.029	1.28	.029	-.042	.0681	.0047	-.30
	-.20	-.022	1.20	.035	-.043	.0363	.0024	-.20
	-.10	-.024	1.18	.050	-.041	.0120	.0008	-.10
	-.05	-.026	1.19	.057	-.038	.0038	.0006	-.05
	0.00	-.025	1.19	.055	-.044	.0038	.0007	0.00
	0.00	-.025	1.16	.052	-.043	.0033	.0009	0.00
	.05	-.026	1.18	.061	-.045	.0003	.0016	.05
	.10	-.025	1.18	.055	-.039	-.0078	.0027	.10
	.20	-.024	1.23	.044	-.027	-.0297	.0081	.20
	.30	-.032	1.32	.032	-.005	-.0663	.0174	.30
	.40	-.063	1.49	.030	.030	-.1054	.0275	.40
25	-.40	-.069	1.67	.012	-.029	.0857	.0099	-.40
	-.30	-.034	1.50	.017	-.031	.0425	.0078	-.30
	-.20	-.024	1.41	.023	-.041	.0153	.0049	-.20
	-.10	-.023	1.37	.034	-.048	-.0042	.0031	-.10
	-.05	-.025	1.39	.044	-.048	-.0077	.0017	-.05
	0.00	-.026	1.38	.048	-.041	-.0034	.0005	0.00
	0.00	-.025	1.38	.048	-.041	-.0056	.0006	0.00
	.05	-.026	1.37	.053	-.036	-.0010	-.0000	.05
	.10	-.026	1.36	.051	-.032	-.0007	.0005	.10
	.20	-.025	1.37	.032	-.023	-.0067	.0047	.20
	.30	-.036	1.46	.021	-.002	-.0298	.0113	.30
	.40	-.070	1.67	.017	.037	-.0693	.0219	.40
30	-.40	-.084	1.84	-.032	-.005	.0388	.0142	-.40
	-.30	-.037	1.62	-.038	-.000	-.0006	.0109	-.30
	-.20	-.017	1.52	-.012	-.011	-.0102	.0100	-.20
	-.10	-.012	1.51	.015	-.025	-.0169	.0102	-.10
	-.05	-.012	1.52	.025	-.033	-.0190	.0073	-.05
	0.00	-.012	1.53	.041	-.043	-.0103	.0036	0.00
	0.00	-.013	1.52	.039	-.045	-.0055	.0022	0.00
	.05	-.009	1.50	.035	-.044	.0141	-.0029	.05
	.10	-.010	1.51	.032	-.042	.0188	-.0055	.10
	.20	-.017	1.53	.009	-.048	.0183	-.0038	.20
	.30	-.038	1.65	-.002	-.025	-.0043	.0057	.30
	.40	-.089	1.88	-.027	.019	-.0226	.0152	.40
35	-.40	-.102	1.98	-.090	.056	.0205	-.0011	-.40
	-.30	-.042	1.78	-.045	.020	.0164	.0009	-.30
	-.20	-.017	1.61	-.018	.003	.0121	-.0000	-.20
	-.10	-.007	1.54	.002	-.013	-.0049	.0061	-.10
	-.05	-.005	1.56	.005	-.018	-.0214	.0062	-.05
	0.00	-.007	1.56	.009	-.034	.0027	.0011	0.00
	0.00	-.008	1.58	.012	-.035	.0020	.0008	0.00
	.05	-.010	1.60	.021	-.058	.0241	-.0038	.05
	.10	-.010	1.59	.003	-.065	.0360	-.0063	.10
	.20	-.017	1.63	-.010	-.062	.0108	.0020	.20
	.30	-.045	1.79	-.036	-.046	-.0022	.0136	.30
	.40	-.105	2.05	-.084	-.015	-.0069	.0261	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.091	2.11	-.117	.063	.0258	-.0000	-.40
	-.30	-.037	1.88	-.071	.018	.0326	-.0005	-.30
	-.20	-.017	1.74	-.048	-.010	.0246	.0010	-.20
	-.10	-.011	1.61	-.024	-.023	.0098	.0075	-.10
	-.05	-.010	1.62	-.023	-.027	.0028	.0101	-.05
	0.00	-.006	1.59	-.022	-.041	-.0002	.0063	0.00
	0.00	-.007	1.60	-.019	-.041	.0008	.0049	0.00
	.05	-.008	1.63	-.011	-.066	.0107	-.0043	.05
	.10	-.008	1.63	-.020	-.078	.0122	-.0006	.10
	.20	-.017	1.71	-.042	-.056	-.0118	-.0000	.20
	.30	-.042	1.89	-.065	-.037	-.0179	.0123	.30
	.40	-.102	2.22	-.109	-.020	-.0142	.0292	.40
45	-.40	-.108	2.20	-.170	.067	.0321	.0087	-.40
	-.30	-.047	1.87	-.112	.030	.0350	.0037	-.30
	-.20	-.018	1.67	-.086	-.002	.0236	.0068	-.20
	-.10	-.011	1.64	-.058	-.018	.0136	.0042	-.10
	-.05	-.010	1.64	-.040	-.025	.0094	.0076	-.05
	0.00	-.014	1.65	-.054	-.040	.0038	.0048	0.00
	0.00	-.014	1.63	-.048	-.038	.0038	.0034	0.00
	.05	-.011	1.64	-.041	-.066	.0060	.0020	.05
	.10	-.014	1.65	-.039	-.066	-.0030	.0001	.10
	.20	-.019	1.69	-.071	-.059	-.0122	.0066	.20
	.30	-.046	1.86	-.102	-.050	-.0204	.0124	.30
	.40	-.109	2.22	-.159	-.025	-.0199	.0189	.40
50	-.40	-.099	2.18	-.220	.101	.0341	.0013	-.40
	-.30	-.043	1.93	-.160	.064	.0302	.0035	-.30
	-.20	-.020	1.73	-.119	.029	.0221	.0124	-.20
	-.10	-.015	1.67	-.089	.001	.0135	.0098	-.10
	-.05	-.016	1.68	-.072	-.010	.0085	.0059	-.05
	0.00	-.011	1.68	-.071	-.039	.0058	.0056	0.00
	0.00	-.012	1.69	-.079	-.039	.0049	.0053	0.00
	.05	-.011	1.69	-.068	-.059	.0023	.0031	.05
	.10	-.012	1.70	-.080	-.068	-.0030	.0015	.10
	.20	-.020	1.75	-.108	-.083	-.0116	.0009	.20
	.30	-.045	1.87	-.151	-.079	-.0171	-.0003	.30
	.40	-.109	2.16	-.210	-.054	-.0194	.0054	.40
55	-.40	-.115	2.13	-.291	.122	.0263	.0181	-.40
	-.30	-.061	1.96	-.205	.095	.0214	.0178	-.30
	-.20	-.038	1.81	-.149	.057	.0152	.0162	-.20
	-.10	-.034	1.77	-.101	.017	.0092	.0129	-.10
	-.05	-.033	1.74	-.089	-.003	.0062	.0088	-.05
	0.00	-.041	1.74	-.093	-.027	.0053	.0052	0.00
	0.00	-.043	1.74	-.090	-.029	.0065	.0007	0.00
	.05	-.041	1.73	-.084	-.060	.0037	.0004	.05
	.10	-.040	1.74	-.099	-.073	.0002	.0009	.10
	.20	-.041	1.82	-.144	-.110	-.0051	-.0011	.20
	.30	-.059	1.92	-.201	-.116	-.0114	-.0053	.30
	.40	-.104	2.11	-.283	-.115	-.0119	-.0038	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.044	2.09	-.402	.093	.0271	-.0039	-.40
	-.30	-.014	1.90	-.322	.050	.0222	-.0078	-.30
	-.20	-.037	1.87	-.185	.065	.0115	.0153	-.20
	-.10	-.041	1.79	-.131	.017	.0068	.0155	-.10
	-.05	-.043	1.77	-.117	-.002	.0045	.0143	-.05
	0.00	-.047	1.76	-.110	-.029	.0052	.0006	0.00
	0.00	-.050	1.78	-.112	-.021	.0030	.0072	0.00
	.05	-.043	1.77	-.116	-.055	.0033	-.0017	.05
	.10	-.042	1.78	-.123	-.074	.0028	-.0034	.10
	.20	-.038	1.86	-.179	-.121	-.0027	.0001	.20
	.30	-.013	1.89	-.328	-.066	-.0141	.0196	.30
	.40	-.054	2.16	-.399	-.064	-.0205	.0196	.40
65	-.40	-.051	2.14	-.427	.088	.0174	.0061	-.40
	-.30	-.020	1.90	-.369	.053	.0171	-.0081	-.30
	-.20	-.012	1.79	-.315	.029	.0135	-.0140	-.20
	-.10	-.016	1.76	-.271	.006	.0103	-.0116	-.10
	-.05	-.021	1.74	-.247	-.013	.0055	-.0038	-.05
	0.00	-.031	1.75	-.226	-.024	.0033	-.0001	0.00
	0.00	-.033	1.77	-.233	-.029	.0040	.0024	0.00
	.05	-.024	1.74	-.250	-.043	.0030	.0068	.05
	.10	-.017	1.73	-.272	-.045	.0008	.0096	.10
	.20	-.014	1.79	-.316	-.068	-.0049	.0245	.20
	.30	-.018	1.92	-.365	-.045	-.0077	.0124	.30
	.40	-.054	2.16	-.425	-.025	-.0086	.0036	.40
70	-.40	-.042	2.18	-.443	.087	.0092	.0113	-.40
	-.30	-.016	1.95	-.391	.033	.0101	.0040	-.30
	-.20	-.010	1.82	-.361	.021	.0078	-.0116	-.20
	-.10	-.015	1.79	-.323	.003	.0062	-.0125	-.10
	-.05	-.016	1.77	-.313	-.015	.0029	-.0068	-.05
	0.00	-.020	1.77	-.297	-.020	.0046	-.0055	0.00
	0.00	-.021	1.79	-.292	-.012	.0043	-.0080	0.00
	.05	-.021	1.76	-.312	-.035	.0052	.0061	.05
	.10	-.020	1.78	-.323	-.051	.0029	.0147	.10
	.20	-.011	1.85	-.364	-.056	-.0002	.0199	.20
	.30	-.014	1.97	-.398	-.029	-.0006	.0079	.30
	.40	-.033	2.17	-.444	-.001	.0031	-.0078	.40
75	-.40	-.022	2.25	-.460	.056	-.0007	.0093	-.40
	-.30	-.006	2.05	-.419	.018	.0013	.0055	-.30
	-.20	-.002	1.92	-.398	.014	.0015	-.0060	-.20
	-.10	-.011	1.84	-.365	.005	-.0006	-.0080	-.10
	-.05	-.013	1.83	-.357	-.006	-.0003	-.0043	-.05
	0.00	-.018	1.85	-.341	-.014	.0010	.0033	0.00
	0.00	-.018	1.82	-.324	-.019	-.0003	.0081	0.00
	.05	-.010	1.83	-.354	-.031	.0067	.0129	.05
	.10	-.008	1.84	-.364	-.047	.0068	.0215	.10
	.20	-.002	1.90	-.388	-.029	.0061	.0114	.20
	.30	-.008	2.03	-.412	-.005	.0048	.0006	.30
	.40	-.030	2.27	-.458	-.000	.0103	-.0110	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.038	2.26	-.508	.028	-.0085	.0177	-.40
	-.30	-.016	2.06	-.457	-.007	-.0055	.0078	-.30
	-.20	-.003	1.92	-.426	-.006	-.0068	-.0017	-.20
	-.10	-.000	1.83	-.390	.002	-.0055	-.0082	-.10
	-.05	.001	1.81	-.377	-.006	-.0031	-.0049	-.05
	0.00	-.005	1.80	-.371	-.014	.0020	.0034	0.00
	0.00	-.008	1.79	-.362	-.018	.0049	.0036	0.00
	.05	.002	1.80	-.376	-.032	.0094	.0138	.05
	.10	.002	1.80	-.386	-.038	.0111	.0196	.10
	.20	-.001	1.91	-.426	-.004	.0120	.0056	.20
	.30	-.017	2.07	-.452	.013	.0139	-.0032	.30
	.40	-.041	2.27	-.506	.021	.0197	-.0187	.40
85	-.40	-.019	2.27	-.509	.028	-.0149	.0168	-.40
	-.30	-.018	2.05	-.472	-.031	-.0103	.0086	-.30
	-.20	-.016	1.91	-.445	-.034	-.0106	.0041	-.20
	-.10	-.017	1.78	-.413	-.019	-.0074	-.0049	-.10
	-.05	-.017	1.78	-.412	-.026	-.0039	-.0012	-.05
	0.00	-.034	1.77	-.414	-.017	.0042	.0059	0.00
	0.00	-.033	1.77	-.414	-.016	.0011	.0037	0.00
	.05	-.017	1.77	-.410	-.016	.0085	.0106	.05
	.10	-.015	1.78	-.415	-.012	.0125	.0111	.10
	.20	-.014	1.90	-.442	.024	.0170	.0017	.20
	.30	-.016	2.05	-.463	.045	.0173	-.0036	.30
	.40	-.015	2.24	-.494	.059	.0233	-.0207	.40
90	-.40	.015	2.20	-.516	-.018	-.0206	.0144	-.40
	-.30	-.018	2.06	-.492	-.056	-.0134	.0081	-.30
	-.20	-.017	1.93	-.473	-.046	-.0180	.0044	-.20
	-.10	-.015	1.79	-.453	-.025	-.0057	.0032	-.10
	-.05	-.015	1.78	-.445	-.021	-.0003	.0045	-.05
	0.00	-.023	1.79	-.453	-.014	.0009	.0050	0.00
	0.00	-.020	1.78	-.439	-.017	.0024	.0023	0.00
	.05	-.017	1.79	-.447	-.008	.0080	.0037	.05
	.10	-.017	1.79	-.451	.001	.0126	.0067	.10
	.20	-.018	1.90	-.473	.042	.0233	.0065	.20
	.30	-.017	2.03	-.490	.066	.0212	-.0035	.30
	.40	.020	2.20	-.515	.073	.0336	-.0196	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.009	.11	.007	.015	.1718	.0096	-.40
	-.30	-.006	.02	-.003	-.011	.1273	.0049	-.30
	-.20	-.005	-.01	-.005	-.030	.0844	.0033	-.20
	-.10	-.005	-.01	-.006	-.038	.0375	.0013	-.10
	-.05	-.003	-.00	-.008	-.041	.0159	.0012	-.05
	0.00	-.001	-.01	-.009	-.045	-.0008	.0028	0.00
	0.00	-.001	-.01	-.009	-.045	-.0008	.0018	0.00
	.05	-.002	-.01	-.005	-.048	-.0165	.0028	.05
	.10	-.004	-.01	-.004	-.046	-.0381	.0049	.10
	.20	-.005	-.01	-.004	-.041	-.0836	.0122	.20
	.30	-.007	.03	-.001	-.032	-.1261	.0233	.30
	.40	-.011	.12	.007	-.016	-.1726	.0384	.40

5	-.40	-.019	.45	.016	-.024	.1614	.0336	-.40
	-.30	-.016	.35	.010	-.045	.1171	.0215	-.30
	-.20	-.006	.31	.005	-.056	.0749	.0133	-.20
	-.10	-.005	.31	.001	-.057	.0396	.0079	-.10
	-.05	-.006	.31	-.000	-.052	.0197	.0054	-.05
	0.00	-.005	.29	-.010	-.046	.0010	.0021	0.00
	0.00	-.006	.29	-.010	-.044	.0012	.0018	0.00
	.05	-.006	.31	.001	-.035	-.0168	-.0006	.05
	.10	-.005	.31	.003	-.025	-.0380	-.0015	.10
	.20	-.006	.32	.007	-.011	-.0744	.0011	.20
	.30	-.009	.36	.011	.010	-.1149	.0063	.30
	.40	-.017	.49	.014	.042	-.1609	.0137	.40

10	-.40	-.055	.84	.025	-.076	.1441	.0581	-.40
	-.30	-.035	.68	.017	-.075	.1004	.0392	-.30
	-.20	-.030	.62	.019	-.068	.0654	.0228	-.20
	-.10	-.030	.61	.019	-.056	.0308	.0105	-.10
	-.05	-.030	.61	.017	-.047	.0137	.0057	-.05
	0.00	-.031	.63	.008	-.043	.0023	.0021	0.00
	0.00	-.030	.62	.009	-.043	.0026	.0020	0.00
	.05	-.031	.62	.018	-.037	-.0112	-.0024	.05
	.10	-.030	.61	.021	-.025	-.0273	-.0041	.10
	.20	-.030	.64	.018	.010	-.0626	-.0100	.20
	.30	-.035	.72	.015	.055	-.0996	-.0125	.30
	.40	-.053	.86	.022	.109	-.1403	-.0113	.40

15	-.40	-.051	1.14	.057	-.111	.1227	.0857	-.40
	-.30	-.025	.99	.044	-.107	.0847	.0588	-.30
	-.20	-.016	.94	.037	-.093	.0525	.0356	-.20
	-.10	-.015	.93	.036	-.072	.0242	.0171	-.10
	-.05	-.016	.93	.035	-.058	.0125	.0092	-.05
	0.00	-.013	.92	.039	-.047	.0011	.0014	0.00
	0.00	-.013	.92	.038	-.045	.0035	.0018	0.00
	.05	-.014	.93	.037	-.023	-.0087	-.0064	.05
	.10	-.014	.94	.037	-.004	-.0208	-.0128	.10
	.20	-.016	.96	.039	.041	-.0484	-.0254	.20
	.30	-.024	1.00	.045	.095	-.0779	-.0359	.30
	.40	-.049	1.18	.061	.172	-.1163	-.0470	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.086	1.47	.034	-.188	.1026	.1251	-.40
	-.30	-.044	1.29	.039	-.160	.0600	.0889	-.30
	-.20	-.025	1.20	.046	-.121	.0283	.0545	-.20
	-.10	-.019	1.18	.060	-.082	.0084	.0257	-.10
	-.05	-.020	1.18	.068	-.061	.0028	.0135	-.05
	0.00	-.020	1.18	.063	-.046	.0017	.0027	0.00
	0.00	-.020	1.20	.065	-.045	.0016	.0022	0.00
	.05	-.022	1.18	.068	-.024	.0004	-.0097	.05
	.10	-.022	1.19	.062	.005	-.0059	-.0209	.10
	.20	-.026	1.21	.052	.077	-.0219	-.0469	.20
	.30	-.040	1.31	.043	.165	-.0506	-.0694	.30
	.40	-.077	1.47	.035	.265	-.0882	-.0862	.40
25	-.40	-.094	1.67	.043	-.257	.0646	.1708	-.40
	-.30	-.046	1.48	.042	-.209	.0297	.1221	-.30
	-.20	-.026	1.41	.038	-.159	.0085	.0752	-.20
	-.10	-.018	1.40	.045	-.110	-.0013	.0357	-.10
	-.05	-.017	1.39	.051	-.085	-.0035	.0200	-.05
	0.00	-.013	1.39	.048	-.060	-.0032	.0070	0.00
	0.00	-.012	1.38	.048	-.059	-.0034	.0058	0.00
	.05	-.014	1.36	.058	-.026	-.0006	-.0094	.05
	.10	-.016	1.36	.055	.009	.0001	-.0256	.10
	.20	-.024	1.37	.046	.099	-.0029	-.0624	.20
	.30	-.045	1.47	.040	.207	-.0178	-.0990	.30
	.40	-.094	1.64	.038	.318	-.0529	-.1213	.40
30	-.40	-.057	1.80	.021	-.283	.0170	.2126	-.40
	-.30	-.027	1.61	.016	-.225	-.0056	.1565	-.30
	-.20	-.021	1.50	.023	-.163	-.0144	.0988	-.20
	-.10	-.023	1.48	.038	-.111	-.0204	.0523	-.10
	-.05	-.023	1.51	.043	-.091	-.0174	.0309	-.05
	0.00	-.020	1.50	.033	-.066	-.0047	.0092	0.00
	0.00	-.021	1.50	.035	-.066	-.0040	.0104	0.00
	.05	-.023	1.50	.049	-.038	.0108	-.0118	.05
	.10	-.022	1.49	.049	-.003	.0234	-.0357	.10
	.20	-.019	1.50	.037	.087	.0192	-.0811	.20
	.30	-.021	1.60	.021	.212	.0047	-.1215	.30
	.40	-.051	1.88	.011	.392	-.0109	-.1714	.40
35	-.40	-.103	1.93	-.053	-.262	-.0004	.2181	-.40
	-.30	-.050	1.74	-.021	-.169	.0049	.1281	-.30
	-.20	-.026	1.59	-.000	-.104	.0049	.0696	-.20
	-.10	-.018	1.51	.016	-.085	-.0183	.0476	-.10
	-.05	-.015	1.52	.019	-.071	-.0238	.0358	-.05
	0.00	-.000	1.56	.027	-.055	.0002	.0087	0.00
	0.00	-.002	1.56	.025	-.057	-.0029	.0111	0.00
	.05	-.013	1.55	.027	-.033	.0270	-.0214	.05
	.10	-.014	1.54	.020	-.003	.0365	-.0451	.10
	.20	-.023	1.56	.004	.045	.0088	-.0583	.20
	.30	-.048	1.74	-.012	.147	.0004	-.0901	.30
	.40	-.103	2.02	-.045	.366	.0095	-.1791	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.121	2.05	-.100	-.153	.0112	.1552	-.40
	-.30	-.052	1.82	-.067	-.067	.0265	.0651	-.30
	-.20	-.021	1.67	-.040	-.038	.0207	.0263	-.20
	-.10	-.010	1.59	-.012	-.028	.0091	.0125	-.10
	-.05	-.007	1.59	-.009	-.030	.0022	.0125	-.05
	0.00	-.011	1.57	-.012	-.042	-.0042	.0085	0.00
	0.00	-.011	1.55	-.016	-.042	.0016	.0067	0.00
	.05	-.009	1.60	.001	-.070	.0123	-.0052	.05
	.10	-.012	1.62	-.012	-.063	.0060	-.0122	.10
	.20	-.022	1.64	-.035	-.037	-.0130	-.0068	.20
	.30	-.051	1.82	-.063	.045	-.0195	-.0250	.30
	.40	-.117	2.10	-.102	.205	-.0110	-.0883	.40
45	-.40	-.097	2.07	-.148	-.012	.0230	.0861	-.40
	-.30	-.046	1.82	-.102	-.004	.0295	.0364	-.30
	-.20	-.027	1.63	-.076	-.038	.0218	.0283	-.20
	-.10	-.022	1.58	-.056	-.040	.0130	.0162	-.10
	-.05	-.022	1.59	-.033	-.026	.0100	.0049	-.05
	0.00	-.014	1.58	-.053	-.040	.0032	.0032	0.00
	0.00	-.015	1.59	-.047	-.043	.0034	.0026	0.00
	.05	-.025	1.61	-.032	-.072	.0051	.0054	.05
	.10	-.026	1.63	-.032	-.070	-.0035	.0031	.10
	.20	-.027	1.63	-.063	-.034	-.0144	-.0012	.20
	.30	-.045	1.80	-.093	.004	-.0223	-.0043	.30
	.40	-.095	2.09	-.136	.122	-.0172	-.0460	.40
50	-.40	-.079	2.10	-.178	.014	.0255	.0848	-.40
	-.30	-.037	1.83	-.145	.020	.0240	.0459	-.30
	-.20	-.028	1.70	-.110	-.002	.0182	.0285	-.20
	-.10	-.028	1.62	-.086	-.024	.0099	.0205	-.10
	-.05	-.030	1.64	-.075	-.035	.0071	.0145	-.05
	0.00	-.022	1.66	-.067	-.053	.0043	.0050	0.00
	0.00	-.025	1.68	-.074	-.049	.0038	.0021	0.00
	.05	-.028	1.67	-.064	-.076	.0005	.0060	.05
	.10	-.026	1.65	-.077	-.069	-.0034	-.0019	.10
	.20	-.027	1.71	-.095	-.060	-.0111	-.0104	.20
	.30	-.042	1.85	-.132	-.013	-.0152	-.0253	.30
	.40	-.086	2.09	-.180	.081	-.0155	-.0526	.40
55	-.40	-.070	2.11	-.240	.055	.0175	.0989	-.40
	-.30	-.041	1.88	-.178	.046	.0161	.0610	-.30
	-.20	-.037	1.79	-.133	.026	.0100	.0387	-.20
	-.10	-.039	1.72	-.098	-.014	.0044	.0239	-.10
	-.05	-.042	1.70	-.087	-.031	.0030	.0179	-.05
	0.00	-.036	1.70	-.077	-.048	.0032	.0052	0.00
	0.00	-.037	1.70	-.084	-.043	.0042	.0059	0.00
	.05	-.045	1.72	-.082	-.074	.0032	-.0002	.05
	.10	-.043	1.71	-.096	-.078	.0010	-.0083	.10
	.20	-.039	1.80	-.119	-.076	-.0023	-.0275	.20
	.30	-.043	1.92	-.167	-.027	-.0070	-.0477	.30
	.40	-.070	2.12	-.235	.061	-.0062	-.0864	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.082	2.09	-.339	-.019	.0170	.1037	-.40
	-.30	-.028	1.86	-.302	-.018	.0138	.0531	-.30
	-.20	-.020	1.78	-.232	-.008	.0102	.0291	-.20
	-.10	-.034	1.79	-.141	-.018	.0024	.0287	-.10
	-.05	-.033	1.79	-.131	-.034	.0010	.0207	-.05
	0.00	-.048	1.77	-.127	-.045	.0005	.0142	0.00
	0.00	-.055	1.79	-.123	-.050	.0005	.0083	0.00
	.05	-.038	1.78	-.125	-.070	.0030	.0021	.05
	.10	-.037	1.79	-.139	-.075	.0041	-.0128	.10
	.20	-.046	1.84	-.160	-.062	.0027	-.0424	.20
	.30	-.031	1.86	-.292	.038	-.0067	-.0411	.30
	.40	-.084	2.09	-.320	.143	-.0065	-.0917	.40
65	-.40	-.046	2.09	-.384	-.071	.0042	.1324	-.40
	-.30	-.015	1.89	-.336	-.057	.0051	.0737	-.30
	-.20	-.003	1.81	-.317	-.055	.0038	.0385	-.20
	-.10	-.003	1.78	-.291	-.057	.0032	.0174	-.10
	-.05	-.005	1.78	-.283	-.065	.0020	.0157	-.05
	0.00	-.016	1.79	-.221	-.057	.0025	.0137	0.00
	0.00	-.014	1.79	-.236	-.058	.0021	.0105	0.00
	.05	-.003	1.76	-.281	-.057	.0040	.0083	.05
	.10	-.000	1.78	-.290	-.048	.0020	-.0004	.10
	.20	-.000	1.82	-.312	-.004	.0026	-.0266	.20
	.30	-.011	1.92	-.335	.083	.0031	-.0705	.30
	.40	-.047	2.12	-.380	.205	.0095	-.1279	.40
70	-.40	-.044	2.20	-.423	-.139	-.0152	.1536	-.40
	-.30	-.017	2.00	-.381	-.100	-.0067	.0970	-.30
	-.20	-.008	1.85	-.356	-.058	-.0046	.0493	-.20
	-.10	-.007	1.81	-.331	-.026	-.0007	.0131	-.10
	-.05	-.008	1.80	-.320	-.032	-.0000	.0113	-.05
	0.00	-.006	1.77	-.327	-.032	.0044	.0106	0.00
	0.00	-.011	1.77	-.322	-.029	.0003	.0067	0.00
	.05	-.007	1.79	-.317	-.029	.0068	.0051	.05
	.10	-.005	1.79	-.327	-.016	.0081	-.0059	.10
	.20	-.004	1.84	-.351	.053	.0120	-.0517	.20
	.30	-.016	2.00	-.379	.133	.0146	-.0989	.30
	.40	-.046	2.22	-.425	.252	.0236	-.1630	.40
75	-.40	-.048	2.30	-.429	-.195	-.0273	.1711	-.40
	-.30	-.027	2.06	-.402	-.144	-.0173	.1117	-.30
	-.20	-.020	1.88	-.386	-.081	-.0133	.0583	-.20
	-.10	-.022	1.79	-.364	-.026	-.0059	.0130	-.10
	-.05	-.022	1.79	-.361	-.018	-.0026	.0031	-.05
	0.00	-.031	1.81	-.357	-.020	.0051	.0060	0.00
	0.00	-.033	1.80	-.356	-.018	.0015	.0047	0.00
	.05	-.028	1.79	-.357	-.025	.0095	.0061	.05
	.10	-.026	1.80	-.358	-.006	.0120	-.0100	.10
	.20	-.019	1.89	-.385	.076	.0191	-.0617	.20
	.30	-.021	2.06	-.398	.168	.0243	-.1168	.30
	.40	-.038	2.33	-.434	.281	.0356	-.1805	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVR1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.034	2.26	-.454	-.205	-.0381	.1779	-.40
	-.30	-.024	2.05	-.431	-.163	-.0271	.1141	-.30
	-.20	-.016	1.93	-.418	-.103	-.0185	.0606	-.20
	-.10	-.013	1.84	-.393	-.043	-.0116	.0128	-.10
	-.05	-.013	1.83	-.385	-.033	-.0041	.0030	-.05
	0.00	-.016	1.84	-.387	-.026	.0008	.0037	0.00
	0.00	-.019	1.85	-.385	-.016	.0003	-.0019	0.00
	.05	-.015	1.82	-.384	-.014	.0118	-.0005	.05
	.10	-.014	1.83	-.391	.005	.0174	-.0129	.10
	.20	-.012	1.92	-.410	.096	.0258	-.0636	.20
	.30	-.021	2.06	-.425	.203	.0349	-.1190	.30
	.40	-.027	2.28	-.455	.316	.0466	-.1888	.40
85	-.40	-.013	2.25	-.460	-.271	-.0455	.1871	-.40
	-.30	-.022	2.09	-.451	-.190	-.0344	.1109	-.30
	-.20	-.023	1.94	-.440	-.114	-.0254	.0576	-.20
	-.10	-.021	1.81	-.412	-.050	-.0134	.0155	-.10
	-.05	-.020	1.79	-.405	-.034	-.0071	.0036	-.05
	0.00	-.034	1.79	-.415	-.017	.0036	-.0013	0.00
	0.00	-.034	1.75	-.403	-.023	.0028	.0010	0.00
	.05	-.017	1.75	-.399	-.011	.0133	.0004	.05
	.10	-.017	1.81	-.412	.019	.0207	-.0162	.10
	.20	-.018	1.93	-.428	.104	.0326	-.0588	.20
	.30	-.017	2.04	-.440	.227	.0408	-.1204	.30
	.40	-.006	2.30	-.464	.337	.0574	-.1923	.40
90	-.40	.020	2.25	-.451	-.324	-.0594	.1864	-.40
	-.30	-.028	2.02	-.460	-.213	-.0389	.1060	-.30
	-.20	-.023	1.88	-.457	-.116	-.0326	.0514	-.20
	-.10	-.019	1.75	-.442	-.058	-.0118	.0238	-.10
	-.05	-.018	1.73	-.432	-.034	-.0057	.0073	-.05
	0.00	-.033	1.74	-.434	-.023	.0035	.0030	0.00
	0.00	-.028	1.73	-.437	-.017	.0029	-.0040	0.00
	.05	-.023	1.74	-.434	.005	.0117	-.0048	.05
	.10	-.023	1.77	-.447	.038	.0197	-.0226	.10
	.20	-.022	1.88	-.462	.131	.0349	-.0552	.20
	.30	-.020	2.05	-.465	.238	.0451	-.1121	.30
	.40	.036	2.25	-.447	.335	.0661	-.1920	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.024	.19	.074	.009	.1649	.0118	-.40
	-.30	-.017	.06	.024	-.001	.1215	.0067	-.30
	-.20	-.012	.01	.003	-.006	.0812	.0032	-.20
	-.10	-.009	-.01	-.006	-.006	.0358	.0007	-.10
	-.05	-.007	-.00	-.008	-.005	.0146	.0001	-.05
	0.00	-.007	-.01	-.010	-.004	-.0006	-.0004	0.00
	0.00	-.005	-.01	-.009	-.004	-.0009	-.0005	0.00
	.05	-.006	-.01	-.005	-.006	-.0147	.0007	.05
	.10	-.009	-.01	-.004	-.004	-.0359	.0009	.10
	.20	-.011	.01	.002	-.000	-.0798	.0025	.20
	.30	-.012	.07	.024	.005	-.1198	.0056	.30
	.40	-.017	.20	.072	.015	-.1647	.0108	.40

5	-.40	-.049	.53	.089	.010	.1607	.0077	-.40
	-.30	-.036	.38	.039	-.006	.1155	.0043	-.30
	-.20	-.028	.32	.011	-.014	.0741	.0028	-.20
	-.10	-.027	.31	-.002	-.014	.0394	.0019	-.10
	-.05	-.028	.30	-.005	-.012	.0196	.0013	-.05
	0.00	-.028	.29	-.012	-.005	.0008	-.0001	0.00
	0.00	-.028	.29	-.012	-.005	.0014	.0001	0.00
	.05	-.027	.31	-.003	-.006	-.0161	-.0001	.05
	.10	-.027	.31	-.001	.002	-.0375	-.0002	.10
	.20	-.028	.34	.014	.010	-.0733	.0021	.20
	.30	-.034	.40	.040	.021	-.1144	.0068	.30
	.40	-.050	.54	.088	.037	-.1596	.0135	.40

10	-.40	-.055	.90	.090	.000	.1458	.0049	-.40
	-.30	-.031	.74	.042	-.008	.1050	.0024	-.30
	-.20	-.025	.64	.025	-.009	.0669	.0003	-.20
	-.10	-.025	.63	.019	-.007	.0316	-.0001	-.10
	-.05	-.026	.64	.016	-.004	.0141	-.0000	-.05
	0.00	-.027	.65	.016	-.009	.0026	-.0004	0.00
	0.00	-.027	.65	.015	-.007	.0027	-.0003	0.00
	.05	-.026	.63	.015	-.004	-.0110	.0007	.05
	.10	-.026	.63	.019	.002	-.0277	.0019	.10
	.20	-.026	.66	.024	.012	-.0638	.0044	.20
	.30	-.033	.75	.042	.029	-.1012	.0084	.30
	.40	-.056	.94	.094	.047	-.1442	.0160	.40

15	-.40	-.037	1.23	.085	-.004	.1347	-.0028	-.40
	-.30	-.028	1.04	.059	-.005	.0945	-.0033	-.30
	-.20	-.037	.97	.047	-.011	.0597	-.0032	-.20
	-.10	-.047	.95	.052	-.010	.0279	-.0017	-.10
	-.05	-.051	.95	.052	-.008	.0138	-.0009	-.05
	0.00	-.046	.95	.053	-.009	.0031	-.0002	0.00
	0.00	-.046	.96	.053	-.009	.0037	-.0003	0.00
	.05	-.052	.96	.055	-.005	-.0094	.0014	.05
	.10	-.049	.97	.053	.001	-.0236	.0031	.10
	.20	-.038	1.01	.052	.013	-.0551	.0078	.20
	.30	-.029	1.08	.059	.032	-.0926	.0139	.30
	.40	-.037	1.29	.086	.062	-.1343	.0220	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.072	1.55	.137	-.035	.1217	-.0145	-.40
	-.30	-.039	1.40	.101	-.031	.0859	-.0122	-.30
	-.20	-.028	1.32	.090	-.026	.0507	-.0090	-.20
	-.10	-.030	1.30	.088	-.015	.0215	-.0038	-.10
	-.05	-.032	1.31	.087	-.007	.0096	-.0019	-.05
	0.00	-.037	1.31	.079	-.008	.0008	.0000	0.00
	0.00	-.038	1.31	.078	-.008	.0036	-.0000	0.00
	.05	-.031	1.32	.088	.005	-.0075	.0017	.05
	.10	-.030	1.33	.090	.012	-.0205	.0048	.10
	.20	-.029	1.34	.096	.028	-.0475	.0145	.20
	.30	-.039	1.39	.108	.054	-.0724	.0238	.30
	.40	-.077	1.59	.149	.091	-.1136	.0348	.40
25	-.40	-.063	1.69	.166	-.049	.0733	-.0249	-.40
	-.30	-.033	1.51	.134	-.054	.0369	-.0218	-.30
	-.20	-.032	1.45	.126	-.055	.0076	-.0135	-.20
	-.10	-.042	1.50	.126	-.040	-.0093	-.0063	-.10
	-.05	-.047	1.57	.131	-.022	-.0156	-.0032	-.05
	0.00	-.056	1.57	.138	-.006	.0040	.0013	0.00
	0.00	-.057	1.56	.138	-.005	.0063	.0016	0.00
	.05	-.051	1.56	.136	.013	.0210	.0032	.05
	.10	-.046	1.51	.129	.033	.0165	.0071	.10
	.20	-.034	1.45	.132	.057	-.0031	.0193	.20
	.30	-.030	1.50	.131	.081	-.0282	.0354	.30
	.40	-.056	1.72	.167	.122	-.0650	.0479	.40
30	-.40	-.086	1.89	.213	-.051	.0348	-.0378	-.40
	-.30	-.043	1.73	.164	-.058	.0089	-.0314	-.30
	-.20	-.029	1.65	.113	-.040	-.0125	-.0204	-.20
	-.10	-.025	1.57	.076	-.014	-.0239	-.0126	-.10
	-.05	-.030	1.60	.124	-.024	-.0269	-.0041	-.05
	0.00	-.021	1.61	.156	-.002	.0018	.0015	0.00
	0.00	-.022	1.60	.157	-.000	.0020	.0023	0.00
	.05	-.030	1.61	.132	.029	.0358	.0055	.05
	.10	-.025	1.56	.080	.018	.0298	.0145	.10
	.20	-.028	1.66	.108	.046	.0196	.0304	.20
	.30	-.042	1.71	.152	.099	.0041	.0508	.30
	.40	-.091	1.94	.221	.129	-.0285	.0628	.40
35	-.40	-.146	2.13	.221	-.024	.0115	-.0460	-.40
	-.30	-.065	1.87	.160	-.039	-.0185	-.0476	-.30
	-.20	-.028	1.70	.114	-.038	-.0341	-.0463	-.20
	-.10	-.014	1.62	.083	-.026	-.0132	-.0300	-.10
	-.05	-.013	1.62	.100	-.014	-.0008	-.0141	-.05
	0.00	-.013	1.65	.133	.009	.0037	.0045	0.00
	0.00	-.013	1.65	.126	.013	.0187	.0066	0.00
	.05	-.018	1.62	.097	.016	.0076	.0184	.05
	.10	-.019	1.64	.084	.030	.0231	.0361	.10
	.20	-.032	1.73	.119	.056	.0428	.0586	.20
	.30	-.066	1.88	.168	.087	.0227	.0641	.30
	.40	-.145	2.16	.243	.110	-.0084	.0674	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.113	2.32	.271	.015	-.0001	-.0443	-.40
	-.30	-.054	2.04	.209	-.016	-.0180	-.0544	-.30
	-.20	-.037	1.88	.134	-.036	-.0420	-.0592	-.20
	-.10	-.031	1.70	.102	-.055	-.0321	-.0453	-.10
	-.05	-.030	1.68	.084	-.015	.0040	-.0271	-.05
	0.00	-.017	1.69	.089	.019	-.0007	.0130	0.00
	0.00	-.018	1.67	.077	.011	-.0023	.0081	0.00
	.05	-.030	1.71	.087	.031	.0176	.0482	.05
	.10	-.032	1.75	.105	.051	.0444	.0591	.10
	.20	-.038	1.90	.137	.054	.0476	.0688	.20
	.30	-.059	2.05	.221	.070	.0205	.0677	.30
	.40	-.118	2.35	.276	.093	.0037	.0672	.40
45	-.40	-.141	2.46	.246	.109	-.0063	-.0186	-.40
	-.30	-.066	2.21	.259	.012	-.0283	-.0472	-.30
	-.20	-.036	2.02	.199	-.033	-.0311	-.0669	-.20
	-.10	-.026	1.81	.139	-.051	-.0232	-.0629	-.10
	-.05	-.027	1.70	.088	-.050	-.0120	-.0342	-.05
	0.00	-.021	1.71	.071	.030	.0025	.0324	0.00
	0.00	-.023	1.71	.077	.030	.0019	.0352	0.00
	.05	-.029	1.77	.103	.042	.0284	.0638	.05
	.10	-.031	1.88	.150	.050	.0317	.0785	.10
	.20	-.038	2.04	.211	.043	.0346	.0751	.20
	.30	-.067	2.22	.270	.035	.0334	.0601	.30
	.40	-.141	2.48	.251	-.006	.0107	.0403	.40
50	-.40	-.118	2.19	.062	.174	.0426	.0308	-.40
	-.30	-.063	2.13	.204	.091	.0222	-.0169	-.30
	-.20	-.041	1.95	.177	-.005	.0182	-.0404	-.20
	-.10	-.034	1.86	.158	-.076	.0030	-.0632	-.10
	-.05	-.029	1.77	.077	-.046	-.0057	-.0369	-.05
	0.00	-.027	1.73	.038	.004	.0120	.0255	0.00
	0.00	-.027	1.71	.032	-.000	.0123	.0249	0.00
	.05	-.028	1.77	.124	.083	.0040	.0715	.05
	.10	-.031	1.84	.147	.043	-.0002	.0667	.10
	.20	-.040	1.94	.190	-.003	-.0117	.0503	.20
	.30	-.067	2.14	.200	-.054	-.0145	.0348	.30
	.40	-.126	2.18	.049	-.102	-.0329	-.0112	.40
55	-.40	-.140	2.23	-.067	.205	.0347	.0383	-.40
	-.30	-.058	2.00	.022	.120	.0270	.0113	-.30
	-.20	-.028	1.87	.088	.050	.0193	-.0038	-.20
	-.10	-.018	1.81	.104	-.026	.0088	-.0330	-.10
	-.05	-.017	1.78	.078	-.051	.0009	-.0356	-.05
	0.00	-.018	1.81	.061	.030	.0087	.0419	0.00
	0.00	-.018	1.80	.046	.040	.0084	.0399	0.00
	.05	-.021	1.78	.081	.025	.0035	.0470	.05
	.10	-.040	1.83	.103	-.006	-.0030	.0347	.10
	.20	-.033	1.88	.086	-.057	-.0130	.0171	.20
	.30	-.063	1.98	.019	-.089	-.0203	-.0016	.30
	.40	-.142	2.22	-.073	-.089	-.0261	-.0180	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.100	2.20	-.272	.166	.0275	.0216	-.40
	-.30	-.045	2.00	-.133	.110	.0194	.0111	-.30
	-.20	-.027	1.90	-.028	.050	.0154	.0020	-.20
	-.10	-.024	1.85	.025	-.006	.0087	-.0079	-.10
	-.05	-.026	1.85	.044	-.039	.0042	-.0175	-.05
	0.00	-.017	1.84	.031	.011	.0048	.0381	0.00
	0.00	-.019	1.84	.025	.024	.0070	.0363	0.00
	.05	-.021	1.84	.031	-.027	.0026	.0216	.05
	.10	-.022	1.86	.029	-.046	-.0029	.0198	.10
	.20	-.029	1.91	-.024	-.071	-.0077	.0080	.20
	.30	-.043	1.96	-.168	-.065	-.0135	.0089	.30
	.40	-.113	2.23	-.276	-.044	-.0218	.0042	.40
65	-.40	-.090	2.16	-.275	.131	.0176	.0324	-.40
	-.30	-.034	1.98	-.241	.085	.0146	.0090	-.30
	-.20	-.024	1.87	-.157	.049	.0123	-.0019	-.20
	-.10	-.025	1.84	-.105	.005	.0084	.0010	-.10
	-.05	-.028	1.85	-.066	-.017	.0055	.0038	-.05
	0.00	-.035	1.84	-.052	-.028	.0031	.0070	0.00
	0.00	-.037	1.84	-.054	-.027	.0046	.0068	0.00
	.05	-.032	1.85	-.086	-.044	.0013	.0097	.05
	.10	-.027	1.82	-.109	-.058	-.0010	.0085	.10
	.20	-.027	1.87	-.158	-.077	-.0055	.0109	.20
	.30	-.035	1.97	-.237	-.064	-.0066	.0075	.30
	.40	-.088	2.19	-.265	-.029	-.0101	-.0039	.40
70	-.40	-.099	2.25	-.260	.123	.0091	.0345	-.40
	-.30	-.040	2.03	-.239	.064	.0090	.0189	-.30
	-.20	-.016	1.90	-.233	.043	.0079	-.0069	-.20
	-.10	-.024	1.85	-.184	.006	.0051	-.0032	-.10
	-.05	-.027	1.84	-.164	-.021	.0036	.0043	-.05
	0.00	-.020	1.84	-.153	-.037	.0047	.0054	0.00
	0.00	-.023	1.85	-.149	-.038	.0038	.0108	0.00
	.05	-.026	1.84	-.166	-.046	.0035	.0081	.05
	.10	-.024	1.86	-.186	-.058	.0028	.0108	.10
	.20	-.020	1.89	-.226	-.063	.0002	.0135	.20
	.30	-.043	2.04	-.238	-.030	-.0025	-.0057	.30
	.40	-.108	2.29	-.264	-.009	-.0000	-.0091	.40
75	-.40	-.087	2.32	-.309	.111	.0038	.0326	-.40
	-.30	-.035	2.06	-.266	.038	.0042	.0192	-.30
	-.20	-.014	1.92	-.254	.019	.0008	.0025	-.20
	-.10	-.030	1.89	-.230	.004	.0011	-.0053	-.10
	-.05	-.034	1.87	-.217	-.017	.0011	.0007	-.05
	0.00	-.038	1.86	-.200	-.025	.0043	.0043	0.00
	0.00	-.034	1.85	-.210	-.024	.0027	.0048	0.00
	.05	-.032	1.85	-.218	-.033	.0057	.0076	.05
	.10	-.028	1.87	-.229	-.050	.0058	.0143	.10
	.20	-.021	1.94	-.253	-.036	.0050	.0039	.20
	.30	-.035	2.08	-.267	-.014	.0057	-.0099	.30
	.40	-.081	2.30	-.299	.013	.0086	-.0201	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.092	2.38	-.343	.059	-.0093	.0398	-.40
	-.30	-.036	2.13	-.303	.008	-.0032	.0183	-.30
	-.20	-.019	1.98	-.282	-.000	-.0048	.0054	-.20
	-.10	-.018	1.90	-.269	.004	-.0047	-.0071	-.10
	-.05	-.021	1.87	-.255	-.014	-.0026	-.0024	-.05
	0.00	-.018	1.87	-.243	-.018	.0051	.0001	0.00
	0.00	-.019	1.85	-.245	-.028	.0060	.0050	0.00
	.05	-.017	1.87	-.257	-.035	.0089	.0089	.05
	.10	-.017	1.89	-.266	-.045	.0107	.0118	.10
	.20	-.020	1.98	-.285	-.008	.0114	-.0003	.20
	.30	-.040	2.16	-.309	.015	.0112	-.0079	.30
	.40	-.105	2.41	-.345	.031	.0169	-.0243	.40
85	-.40	-.081	2.36	-.315	.035	-.0126	.0357	-.40
	-.30	-.042	2.14	-.297	-.014	-.0082	.0178	-.30
	-.20	-.019	1.96	-.303	-.027	-.0096	.0068	-.20
	-.10	-.013	1.84	-.290	-.018	-.0043	-.0047	-.10
	-.05	-.014	1.82	-.282	-.025	-.0004	-.0026	-.05
	0.00	-.022	1.84	-.277	-.024	.0024	-.0011	0.00
	0.00	-.022	1.85	-.284	-.024	.0016	.0032	0.00
	.05	-.020	1.83	-.286	-.025	.0083	.0071	.05
	.10	-.019	1.84	-.287	-.022	.0132	.0084	.10
	.20	-.023	1.98	-.302	.013	.0187	-.0014	.20
	.30	-.043	2.13	-.297	.042	.0159	-.0116	.30
	.40	-.073	2.33	-.323	.059	.0238	-.0284	.40
90	-.40	-.054	2.35	-.309	.000	-.0170	.0293	-.40
	-.30	-.042	2.13	-.308	-.049	-.0119	.0100	-.30
	-.20	-.034	2.01	-.314	-.050	-.0171	.0025	-.20
	-.10	-.032	1.87	-.306	-.031	-.0046	-.0019	-.10
	-.05	-.032	1.85	-.313	-.034	-.0004	.0002	-.05
	0.00	-.031	1.86	-.315	-.019	.0027	.0035	0.00
	0.00	-.030	1.84	-.313	-.028	.0038	.0020	0.00
	.05	-.026	1.84	-.307	-.013	.0077	.0039	.05
	.10	-.026	1.87	-.317	-.001	.0156	.0047	.10
	.20	-.035	1.99	-.309	.037	.0200	.0005	.20
	.30	-.045	2.13	-.311	.077	.0176	-.0056	.30
	.40	-.068	2.35	-.318	.083	.0278	-.0243	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.026	.13	.045	.050	.1703	.0005	-.40
	-.30	-.021	.03	.008	.018	.1257	-.0021	-.30
	-.20	-.018	-.01	-.005	-.001	.0834	-.0023	-.20
	-.10	-.014	-.01	-.010	-.007	.0376	-.0032	-.10
	-.05	-.012	-.00	-.013	-.009	.0162	-.0029	-.05
	0.00	-.012	-.01	-.013	-.009	-.0001	-.0025	0.00
	0.00	-.014	-.00	-.012	-.009	-.0004	-.0025	0.00
	.05	-.014	-.00	-.010	-.012	-.0150	-.0026	.05
	.10	-.016	-.01	-.008	-.011	-.0358	-.0004	.10
	.20	-.018	-.00	-.005	-.009	-.0802	.0060	.20
	.30	-.022	.04	.010	-.002	-.1207	.0163	.30
	.40	-.027	.15	.045	.013	-.1655	.0319	.40

5	-.40	-.036	.50	.032	-.008	.1607	.0250	-.40
	-.30	-.021	.37	.008	-.019	.1160	.0141	-.30
	-.20	-.016	.33	-.004	-.023	.0749	.0072	-.20
	-.10	-.014	.32	-.007	-.020	.0404	.0027	-.10
	-.05	-.015	.32	-.008	-.013	.0201	.0008	-.05
	0.00	-.015	.31	-.007	-.013	.0023	-.0018	0.00
	0.00	-.014	.30	-.006	-.012	.0022	-.0020	0.00
	.05	-.014	.31	-.005	-.002	-.0156	-.0055	.05
	.10	-.014	.32	-.005	.008	-.0369	-.0063	.10
	.20	-.016	.34	-.000	.021	-.0723	-.0042	.20
	.30	-.021	.39	.009	.040	-.1127	.0008	.30
	.40	-.037	.54	.032	.067	-.1573	.0089	.40

10	-.40	-.051	.91	.078	-.059	.1439	.0493	-.40
	-.30	-.022	.73	.039	-.055	.1032	.0322	-.30
	-.20	-.010	.64	.028	-.044	.0669	.0172	-.20
	-.10	-.007	.62	.026	-.029	.0318	.0059	-.10
	-.05	-.008	.63	.023	-.020	.0148	.0012	-.05
	0.00	-.009	.64	.016	-.014	.0045	-.0026	0.00
	0.00	-.009	.63	.015	-.015	.0027	-.0026	0.00
	.05	-.009	.63	.023	.001	-.0109	-.0071	.05
	.10	-.009	.62	.026	.012	-.0264	-.0094	.10
	.20	-.011	.66	.029	.041	-.0625	-.0145	.20
	.30	-.022	.75	.039	.076	-.0986	-.0172	.30
	.40	-.049	.92	.079	.119	-.1395	-.0162	.40

15	-.40	-.080	1.21	.083	-.114	.1267	.0718	-.40
	-.30	-.047	1.03	.061	-.090	.0874	.0472	-.30
	-.20	-.034	.97	.053	-.063	.0557	.0270	-.20
	-.10	-.033	.96	.059	-.036	.0265	.0109	-.10
	-.05	-.034	.96	.060	-.021	.0135	.0043	-.05
	0.00	-.033	.95	.057	-.014	.0024	-.0025	0.00
	0.00	-.033	.93	.055	-.015	.0034	-.0020	0.00
	.05	-.033	.94	.061	.007	-.0074	-.0099	.05
	.10	-.032	.96	.060	.027	-.0203	-.0199	.10
	.20	-.035	.99	.057	.071	-.0488	-.0270	.20
	.30	-.049	1.08	.065	.131	-.0833	-.0381	.30
	.40	-.082	1.26	.090	.202	-.1218	-.0466	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.071	1.53	.165	-.201	.0993	.1030	-.40
	-.30	-.040	1.37	.112	-.156	.0709	.0682	-.30
	-.20	-.031	1.30	.094	-.110	.0425	.0386	-.20
	-.10	-.032	1.30	.091	-.062	.0180	.0164	-.10
	-.05	-.034	1.30	.089	-.038	.0080	.0069	-.05
	0.00	-.029	1.29	.091	-.016	.0033	-.0018	0.00
	0.00	-.029	1.30	.091	-.015	.0009	-.0027	0.00
	.05	-.036	1.33	.091	.015	-.0058	-.0121	.05
	.10	-.035	1.34	.092	.047	-.0163	-.0206	.10
	.20	-.034	1.34	.101	.115	-.0376	-.0392	.20
	.30	-.039	1.39	.125	.199	-.0574	-.0590	.30
	.40	-.069	1.56	.176	.294	-.0930	-.0733	.40
25	-.40	-.104	1.68	.241	-.290	.0517	.1248	-.40
	-.30	-.049	1.50	.174	-.226	.0166	.0826	-.30
	-.20	-.030	1.45	.140	-.170	-.0064	.0526	-.20
	-.10	-.026	1.52	.126	-.099	-.0156	.0230	-.10
	-.05	-.029	1.56	.127	-.056	-.0216	.0121	-.05
	0.00	-.025	1.57	.136	-.015	.0036	-.0006	0.00
	0.00	-.026	1.57	.135	-.015	-.0009	.0001	0.00
	.05	-.027	1.55	.131	.035	.0242	-.0138	.05
	.10	-.023	1.50	.128	.083	.0242	-.0262	.10
	.20	-.028	1.48	.148	.183	.0101	-.0536	.20
	.30	-.048	1.53	.179	.274	-.0089	-.0732	.30
	.40	-.104	1.71	.246	.378	-.0407	-.0957	.40
30	-.40	-.094	1.81	.258	-.317	.0146	.1396	-.40
	-.30	-.041	1.64	.198	-.235	-.0069	.0803	-.30
	-.20	-.022	1.64	.133	-.177	-.0229	.0604	-.20
	-.10	-.014	1.60	.094	-.114	-.0320	.0408	-.10
	-.05	-.018	1.63	.141	-.092	-.0330	.0244	-.05
	0.00	-.016	1.59	.152	-.029	-.0039	.0059	0.00
	0.00	-.018	1.62	.155	-.018	.0029	.0022	0.00
	.05	-.023	1.67	.164	.070	.0424	-.0189	.05
	.10	-.021	1.64	.105	.104	.0409	-.0409	.10
	.20	-.023	1.67	.140	.196	.0326	-.0616	.20
	.30	-.033	1.68	.196	.310	.0209	-.0772	.30
	.40	-.079	1.88	.261	.442	-.0105	-.1187	.40
35	-.40	-.107	2.03	.291	-.364	-.0167	.1799	-.40
	-.30	-.045	1.81	.208	-.236	-.0356	.0837	-.30
	-.20	-.022	1.70	.141	-.134	-.0434	.0138	-.20
	-.10	-.014	1.63	.086	-.117	-.0220	.0233	-.10
	-.05	-.014	1.68	.102	-.059	-.0014	.0053	-.05
	0.00	-.008	1.69	.125	-.022	.0042	.0035	0.00
	0.00	-.008	1.67	.127	-.021	-.0016	.0081	0.00
	.05	-.013	1.66	.107	.038	.0075	.0023	.05
	.10	-.015	1.69	.097	.100	.0275	-.0154	.10
	.20	-.022	1.74	.154	.163	.0510	-.0116	.20
	.30	-.044	1.86	.217	.308	.0389	-.0690	.30
	.40	-.103	2.07	.297	.490	.0136	-.1558	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.096	2.20	.306	-.350	-.0281	.1855	-.40
	-.30	-.039	1.95	.250	-.272	-.0379	.1111	-.30
	-.20	-.023	1.84	.170	-.179	-.0497	.0323	-.20
	-.10	-.016	1.72	.115	-.099	-.0395	-.0191	-.10
	-.05	-.014	1.72	.091	-.089	.0000	-.0009	-.05
	0.00	-.007	1.70	.109	-.017	-.0068	.0155	0.00
	0.00	-.010	1.72	.108	.014	.0058	.0097	0.00
	.05	-.019	1.74	.095	.081	.0177	.0095	.05
	.10	-.020	1.74	.121	.105	.0497	.0175	.10
	.20	-.023	1.84	.186	.208	.0546	-.0343	.20
	.30	-.032	1.95	.257	.319	.0357	-.0923	.30
	.40	-.081	2.24	.313	.452	.0290	-.1551	.40
45	-.40	-.107	2.33	.268	-.089	-.0107	.1111	-.40
	-.30	-.049	2.11	.270	-.149	-.0298	.0668	-.30
	-.20	-.026	1.98	.229	-.181	-.0410	.0339	-.20
	-.10	-.019	1.84	.146	-.144	-.0278	-.0050	-.10
	-.05	-.018	1.74	.086	-.099	-.0191	-.0029	-.05
	0.00	-.013	1.71	.072	.037	.0030	.0073	0.00
	0.00	-.014	1.71	.070	.030	.0014	.0135	0.00
	.05	-.014	1.77	.102	.097	.0318	.0175	.05
	.10	-.016	1.84	.151	.142	.0371	.0128	.10
	.20	-.023	1.99	.234	.194	.0463	-.0212	.20
	.30	-.048	2.15	.264	.197	.0354	-.0483	.30
	.40	-.113	2.39	.256	.181	.0097	-.0677	.40
50	-.40	-.102	2.14	.050	.133	.0354	.0780	-.40
	-.30	-.044	2.04	.181	.078	.0239	.0036	-.30
	-.20	-.022	1.90	.170	-.006	.0180	-.0342	-.20
	-.10	-.015	1.80	.153	-.098	.0025	-.0460	-.10
	-.05	-.011	1.72	.088	-.093	-.0052	-.0262	-.05
	0.00	-.017	1.68	.038	.014	.0124	.0073	0.00
	0.00	-.017	1.68	.038	.024	.0131	.0051	0.00
	.05	-.017	1.72	.122	.080	.0077	.0593	.05
	.10	-.021	1.76	.143	.037	.0000	.0613	.10
	.20	-.025	1.89	.174	-.016	-.0132	.0515	.20
	.30	-.041	1.99	.132	-.052	-.0209	.0070	.30
	.40	-.098	2.17	.040	-.012	-.0307	-.0568	.40
55	-.40	-.105	2.16	-.057	.102	.0259	.1111	-.40
	-.30	-.036	1.95	.016	.091	.0207	.0389	-.30
	-.20	-.012	1.83	.056	.038	.0153	.0071	-.20
	-.10	-.010	1.77	.078	-.029	.0065	-.0181	-.10
	-.05	-.010	1.76	.069	-.075	-.0006	-.0266	-.05
	0.00	-.008	1.74	.038	.030	.0098	.0256	0.00
	0.00	-.010	1.78	.047	.036	.0120	.0356	0.00
	.05	-.007	1.78	.070	.021	.0063	.0418	.05
	.10	-.009	1.78	.084	-.020	-.0011	.0413	.10
	.20	-.014	1.84	.072	-.056	-.0106	.0074	.20
	.30	-.041	1.95	.024	-.026	-.0168	-.0392	.30
	.40	-.114	2.15	-.049	.034	-.0228	-.0928	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.138	2.18	-.278	.015	.0161	.1149	-.40
	-.30	-.028	1.92	-.171	.024	.0130	.0619	-.30
	-.20	.023	1.85	-.040	.036	.0108	.0162	-.20
	-.10	.049	1.80	.005	-.014	.0063	.0039	-.10
	-.05	.052	1.79	.016	-.043	.0027	-.0038	-.05
	0.00	.049	1.78	.030	.015	.0050	.0396	0.00
	0.00	.048	1.80	.022	.021	.0087	.0268	0.00
	.05	.046	1.80	.012	-.014	.0030	.0270	.05
	.10	.040	1.80	.004	-.032	-.0006	.0174	.10
	.20	.018	1.86	-.037	-.038	-.0053	-.0095	.20
	.30	-.030	1.96	-.127	.012	-.0072	-.0587	.30
	.40	-.128	2.22	-.269	.117	-.0090	-.1157	.40
65	-.40	-.079	2.23	-.287	-.053	.0030	.1459	-.40
	-.30	-.019	1.98	-.234	-.037	.0027	.0897	-.30
	-.20	.001	1.83	-.184	-.017	.0049	.0444	-.20
	-.10	-.001	1.79	-.110	-.022	.0034	.0224	-.10
	-.05	-.002	1.79	-.092	-.029	.0033	.0149	-.05
	0.00	-.001	1.82	-.097	-.029	.0044	.0056	0.00
	0.00	-.003	1.82	-.091	-.032	.0041	.0086	0.00
	.05	.007	1.79	-.096	-.036	.0040	.0079	.05
	.10	.007	1.80	-.109	-.029	.0036	-.0085	.10
	.20	.006	1.84	-.188	.014	.0054	-.0459	.20
	.30	-.023	1.99	-.226	.074	.0050	-.0856	.30
	.40	-.095	2.27	-.288	.190	.0048	-.1460	.40
70	-.40	-.067	2.31	-.268	-.108	-.0104	.1723	-.40
	-.30	-.021	2.03	-.241	-.079	-.0059	.1095	-.30
	-.20	-.007	1.88	-.225	-.034	-.0012	.0522	-.20
	-.10	-.010	1.80	-.187	-.024	.0004	.0195	-.10
	-.05	-.014	1.81	-.167	-.028	.0018	.0126	-.05
	0.00	-.009	1.81	-.167	-.033	.0053	.0072	0.00
	0.00	-.013	1.82	-.162	-.033	.0039	.0080	0.00
	.05	-.010	1.80	-.179	-.033	.0074	.0013	.05
	.10	-.007	1.81	-.193	-.020	.0084	-.0127	.10
	.20	-.005	1.88	-.220	.034	.0103	-.0532	.20
	.30	-.024	2.07	-.237	.116	.0144	-.1048	.30
	.40	-.075	2.34	-.271	.234	.0194	-.1729	.40
75	-.40	-.101	2.36	-.270	-.151	-.0227	.1853	-.40
	-.30	-.041	2.08	-.251	-.125	-.0161	.1224	-.30
	-.20	-.008	1.92	-.252	-.068	-.0108	.0631	-.20
	-.10	.002	1.85	-.239	-.024	-.0051	.0176	-.10
	-.05	.003	1.82	-.227	-.025	-.0002	.0091	-.05
	0.00	-.006	1.82	-.229	-.029	.0046	.0070	0.00
	0.00	-.008	1.83	-.222	-.029	.0039	.0080	0.00
	.05	.004	1.82	-.228	-.020	.0096	.0007	.05
	.10	.003	1.82	-.234	-.003	.0135	-.0148	.10
	.20	-.008	1.94	-.250	.074	.0201	-.0710	.20
	.30	-.040	2.10	-.246	.167	.0244	-.1256	.30
	.40	-.107	2.37	-.270	.275	.0325	-.1898	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA1

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.069	2.37	-.318	-.187	-.0344	.1906	-.40
	-.30	-.022	2.11	-.292	-.142	-.0224	.1194	-.30
	-.20	-.007	1.96	-.280	-.086	-.0171	.0628	-.20
	-.10	-.007	1.88	-.270	-.027	-.0097	.0158	-.10
	-.05	-.006	1.87	-.260	-.022	-.0035	.0053	-.05
	0.00	-.011	1.89	-.260	-.020	.0027	.0050	0.00
	0.00	-.014	1.86	-.253	-.008	.0038	-.0031	0.00
	.05	-.013	1.87	-.260	-.010	.0126	-.0026	.05
	.10	-.011	1.89	-.267	.012	.0181	-.0218	.10
	.20	-.008	1.98	-.276	.094	.0255	-.0704	.20
	.30	-.020	2.17	-.300	.186	.0334	-.1247	.30
	.40	-.058	2.42	-.332	.312	.0464	-.1960	.40
85	-.40	-.059	2.38	-.312	-.229	-.0435	.1929	-.40
	-.30	-.027	2.16	-.293	-.171	-.0315	.1156	-.30
	-.20	-.006	1.97	-.296	-.097	-.0243	.0563	-.20
	-.10	.001	1.85	-.281	-.038	-.0114	.0167	-.10
	-.05	.002	1.82	-.278	-.023	-.0040	.0044	-.05
	0.00	-.013	1.81	-.275	-.016	.0052	.0036	0.00
	0.00	-.008	1.81	-.276	-.006	.0019	-.0032	0.00
	.05	.009	1.82	-.274	.002	.0127	-.0049	.05
	.10	.008	1.83	-.283	.028	.0206	-.0198	.10
	.20	-.002	1.97	-.293	.115	.0307	-.0643	.20
	.30	-.024	2.15	-.293	.218	.0381	-.1227	.30
	.40	-.065	2.37	-.314	.324	.0554	-.2027	.40
90	-.40	-.040	2.37	-.262	-.255	-.0536	.1892	-.40
	-.30	-.032	2.13	-.285	-.193	-.0357	.1049	-.30
	-.20	-.019	1.96	-.316	-.117	-.0282	.0504	-.20
	-.10	-.013	1.82	-.317	-.059	-.0113	.0179	-.10
	-.05	-.011	1.80	-.312	-.039	-.0037	.0068	-.05
	0.00	-.017	1.79	-.302	-.022	.0059	.0058	0.00
	0.00	-.012	1.76	-.292	-.008	.0025	.0010	0.00
	.05	-.014	1.80	-.311	.011	.0131	-.0066	.05
	.10	-.014	1.82	-.313	.043	.0213	-.0221	.10
	.20	-.018	1.95	-.311	.132	.0358	-.0570	.20
	.30	-.026	2.15	-.293	.236	.0457	-.1153	.30
	.40	-.023	2.36	-.272	.348	.0640	-.2028	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.020	.17	.017	.018	.1440	.0059	-.40
	-.30	-.017	.08	.002	.004	.1059	.0033	-.30
	-.20	-.016	.05	-.001	-.004	.0704	.0015	-.20
	-.10	-.012	.05	-.002	-.006	.0302	.0002	-.10
	-.05	-.010	.05	-.002	-.006	.0120	.0000	-.05
	0.00	-.010	.04	-.001	-.009	-.0015	.0002	0.00
	0.00	-.011	.04	-.001	-.008	-.0016	.0003	0.00
	.05	-.010	.05	-.000	-.007	-.0140	.0002	.05
	.10	-.011	.05	-.001	-.005	-.0329	.0007	.10
	.20	-.012	.06	.001	.002	-.0716	.0027	.20
	.30	-.014	.10	.006	.013	-.1069	.0055	.30
	.40	-.016	.19	.020	.030	-.1442	.0092	.40

5	-.40	-.023	.50	.007	.018	.1382	.0055	-.40
	-.30	-.012	.39	-.002	-.003	.0984	.0036	-.30
	-.20	-.008	.34	-.008	-.014	.0627	.0027	-.20
	-.10	-.008	.34	-.013	-.016	.0331	.0018	-.10
	-.05	-.009	.34	-.014	-.014	.0161	.0012	-.05
	0.00	-.008	.33	-.010	-.013	-.0007	.0016	0.00
	0.00	-.009	.33	-.009	-.012	-.0008	.0016	0.00
	.05	-.008	.34	-.013	-.004	-.0162	.0002	.05
	.10	-.008	.35	-.011	.003	-.0341	-.0001	.10
	.20	-.007	.35	-.005	.010	-.0629	.0016	.20
	.30	-.010	.41	-.003	.020	-.0991	.0051	.30
	.40	-.020	.55	.004	.037	-.1386	.0096	.40

10	-.40	-.014	.76	-.009	-.005	.1237	.0063	-.40
	-.30	.001	.65	-.011	-.011	.0869	.0037	-.30
	-.20	.004	.61	-.004	-.013	.0557	.0016	-.20
	-.10	.003	.60	-.001	-.011	.0248	.0007	-.10
	-.05	.002	.61	-.001	-.008	.0090	.0005	-.05
	0.00	.002	.61	-.008	-.011	.0005	.0010	0.00
	0.00	.002	.63	-.008	-.012	.0007	.0009	0.00
	.05	.003	.61	-.000	-.010	-.0089	.0008	.05
	.10	.003	.61	-.000	-.005	-.0240	.0012	.10
	.20	.005	.61	-.005	.004	-.0529	.0024	.20
	.30	.003	.69	-.013	.022	-.0863	.0039	.30
	.40	-.011	.82	-.009	.042	-.1223	.0072	.40

15	-.40	-.034	1.09	-.016	-.002	.1073	.0096	-.40
	-.30	-.013	.97	-.007	-.008	.0769	.0042	-.30
	-.20	-.007	.92	.005	-.010	.0463	.0012	-.20
	-.10	-.008	.90	.015	-.011	.0211	.0006	-.10
	-.05	-.009	.90	.017	-.008	.0091	.0005	-.05
	0.00	-.008	.90	.009	-.013	.0011	.0015	0.00
	0.00	-.009	.88	.011	-.011	-.0008	.0015	0.00
	.05	-.008	.89	.019	-.005	-.0091	.0012	.05
	.10	-.007	.89	.016	-.003	-.0196	.0015	.10
	.20	-.006	.92	.006	.005	-.0436	.0024	.20
	.30	-.011	1.00	-.007	.019	-.0732	.0031	.30
	.40	-.032	1.17	-.016	.040	-.1060	.0036	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.035	1.43	-.005	.002	.0998	.0168	-.40
	-.30	-.013	1.26	-.004	-.007	.0640	.0085	-.30
	-.20	-.009	1.20	.005	-.012	.0365	.0052	-.20
	-.10	-.013	1.18	.015	-.014	.0157	.0027	-.10
	-.05	-.015	1.16	.017	-.011	.0065	.0012	-.05
	0.00	-.012	1.16	.020	-.014	-.0010	.0015	0.00
	0.00	-.012	1.14	.020	-.015	.0007	.0016	0.00
	.05	-.015	1.14	.021	-.008	-.0055	-.0005	.05
	.10	-.013	1.16	.020	-.005	-.0132	-.0010	.10
	.20	-.010	1.20	.011	.003	-.0324	-.0009	.20
	.30	-.014	1.31	-.001	.023	-.0624	-.0017	.30
	.40	-.039	1.48	-.001	.053	-.0954	-.0055	.40
25	-.40	-.035	1.57	.029	-.006	.0769	.0268	-.40
	-.30	-.003	1.39	.019	-.010	.0389	.0188	-.30
	-.20	.006	1.31	.014	-.014	.0175	.0125	-.20
	-.10	.006	1.29	.017	-.013	.0084	.0062	-.10
	-.05	.006	1.28	.015	-.009	.0042	.0030	-.05
	0.00	.003	1.27	.020	-.012	.0024	.0021	0.00
	0.00	.003	1.27	.021	-.014	.0002	.0023	0.00
	.05	.002	1.27	.016	-.004	.0006	-.0025	.05
	.10	.004	1.28	.017	.001	-.0046	-.0047	.10
	.20	.005	1.31	.018	.009	-.0132	-.0091	.20
	.30	-.001	1.37	.019	.020	-.0297	-.0125	.30
	.40	-.030	1.60	.036	.050	-.0711	-.0153	.40
30	-.40	-.053	1.63	-.002	.030	.0392	.0431	-.40
	-.30	-.014	1.46	.007	.015	.0080	.0358	-.30
	-.20	-.001	1.38	.011	.001	-.0068	.0272	-.20
	-.10	.002	1.37	.011	-.007	-.0124	.0183	-.10
	-.05	.002	1.38	.010	-.010	-.0106	.0109	-.05
	0.00	.003	1.37	.002	-.015	-.0006	.0035	0.00
	0.00	.002	1.38	.003	-.016	-.0030	.0043	0.00
	.05	.003	1.37	.013	-.011	.0086	-.0070	.05
	.10	.004	1.36	.014	-.010	.0097	-.0133	.10
	.20	-.001	1.38	.015	-.006	.0072	-.0222	.20
	.30	-.015	1.46	.005	.006	-.0079	-.0266	.30
	.40	-.057	1.66	-.012	.029	-.0359	-.0303	.40
35	-.40	-.034	1.73	-.008	.053	.0063	.0633	-.40
	-.30	.003	1.56	.003	.034	-.0108	.0510	-.30
	-.20	.015	1.48	-.014	.026	-.0233	.0426	-.20
	-.10	.019	1.40	-.027	.026	-.0247	.0290	-.10
	-.05	.019	1.38	-.030	.015	-.0119	.0146	-.05
	0.00	.019	1.41	-.042	-.010	.0019	.0017	0.00
	0.00	.017	1.40	-.044	-.018	-.0111	.0096	0.00
	.05	.019	1.40	-.031	-.029	.0049	-.0060	.05
	.10	.019	1.45	-.022	-.038	.0207	-.0230	.10
	.20	.014	1.53	-.007	-.030	.0256	-.0380	.20
	.30	.003	1.63	.000	-.028	.0152	-.0456	.30
	.40	-.034	1.82	-.015	-.019	-.0037	-.0523	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.041	1.86	-.116	.157	.0104	.0672	-.40
	-.30	-.005	1.69	-.042	.093	-.0256	.0652	-.30
	-.20	.009	1.52	-.049	.056	-.0161	.0385	-.20
	-.10	.012	1.41	-.048	.017	-.0054	.0184	-.10
	-.05	.011	1.38	-.051	-.000	-.0038	.0129	-.05
	0.00	.011	1.38	-.068	-.011	-.0023	.0051	0.00
	0.00	.011	1.36	-.069	-.010	-.0028	.0069	0.00
	.05	.009	1.36	-.053	-.014	.0021	-.0080	.05
	.10	.010	1.39	-.046	-.025	.0084	-.0173	.10
	.20	.007	1.53	-.041	-.050	.0210	-.0365	.20
	.30	-.007	1.66	-.042	-.061	.0258	-.0572	.30
	.40	-.043	1.87	-.123	-.102	-.0080	-.0601	.40
45	-.40	-.043	1.75	-.157	.166	.0315	.1165	-.40
	-.30	.001	1.57	-.122	.108	.0237	.0781	-.30
	-.20	.017	1.44	-.105	.061	.0166	.0519	-.20
	-.10	.023	1.39	-.083	.023	.0020	.0228	-.10
	-.05	.020	1.38	-.066	.004	-.0033	.0111	-.05
	0.00	.020	1.39	-.085	-.010	-.0003	.0062	0.00
	0.00	.023	1.37	-.089	-.008	-.0001	.0034	0.00
	.05	.021	1.37	-.069	-.020	.0009	-.0091	.05
	.10	.021	1.38	-.066	-.029	.0025	-.0159	.10
	.20	.017	1.46	-.100	-.066	-.0117	-.0402	.20
	.30	.001	1.58	-.121	-.083	-.0196	-.0714	.30
	.40	-.050	1.79	-.157	-.087	-.0245	-.1036	.40
50	-.40	-.045	1.79	-.210	.171	.0378	.1390	-.40
	-.30	.001	1.60	-.156	.122	.0270	.1057	-.30
	-.20	.018	1.49	-.132	.079	.0182	.0708	-.20
	-.10	.020	1.43	-.116	.048	.0105	.0448	-.10
	-.05	.018	1.43	-.114	.032	.0053	.0319	-.05
	0.00	.017	1.39	-.122	.002	.0032	.0131	0.00
	0.00	.015	1.39	-.120	.009	.0038	.0138	0.00
	.05	.016	1.41	-.103	-.025	.0015	-.0059	.05
	.10	.018	1.41	-.115	-.062	-.0045	-.0288	.10
	.20	.017	1.45	-.122	-.081	-.0132	-.0613	.20
	.30	.003	1.55	-.155	-.097	-.0217	-.0916	.30
	.40	-.040	1.79	-.215	-.090	-.0312	-.1327	.40
55	-.40	-.071	1.77	-.285	.139	.0307	.1172	-.40
	-.30	-.004	1.59	-.212	.096	.0216	.1013	-.30
	-.20	.030	1.50	-.170	.079	.0148	.0786	-.20
	-.10	.042	1.48	-.145	.068	.0083	.0583	-.10
	-.05	.045	1.46	-.138	.054	.0041	.0448	-.05
	0.00	.049	1.46	-.142	.041	.0025	.0330	0.00
	0.00	.045	1.45	-.146	.023	.0033	.0236	0.00
	.05	.043	1.45	-.137	-.070	-.0016	-.0296	.05
	.10	.041	1.46	-.147	-.077	-.0062	-.0461	.10
	.20	.028	1.48	-.163	-.080	-.0119	-.0679	.20
	.30	-.004	1.60	-.214	-.075	-.0191	-.0931	.30
	.40	-.072	1.80	-.285	-.057	-.0266	-.1157	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.049	1.89	-.283	.133	.0218	.1090	-.40
	-.30	-.014	1.70	-.226	.090	.0172	.0928	-.30
	-.20	-.001	1.61	-.190	.067	.0113	.0742	-.20
	-.10	.001	1.58	-.176	.057	.0059	.0549	-.10
	-.05	.000	1.57	-.174	.049	.0033	.0420	-.05
	0.00	-.000	1.59	-.174	.016	.0002	.0158	0.00
	0.00	-.000	1.59	-.177	.016	-.0009	.0176	0.00
	.05	-.000	1.58	-.173	-.039	-.0026	-.0227	.05
	.10	.000	1.57	-.174	-.061	-.0057	-.0426	.10
	.20	-.001	1.62	-.193	-.069	-.0117	-.0623	.20
	.30	-.013	1.70	-.229	-.074	-.0155	-.0829	.30
	.40	-.053	1.91	-.287	-.089	-.0233	-.1076	.40
65	-.40	-.041	1.98	-.316	.100	.0171	.0968	-.40
	-.30	-.008	1.80	-.279	.084	.0100	.0693	-.30
	-.20	.000	1.70	-.232	.055	.0080	.0605	-.20
	-.10	.003	1.65	-.216	.027	.0032	.0369	-.10
	-.05	.002	1.62	-.212	.004	.0016	.0179	-.05
	0.00	.003	1.63	-.211	-.013	.0006	.0099	0.00
	0.00	.003	1.65	-.213	-.006	.0001	.0070	0.00
	.05	.005	1.63	-.214	-.010	-.0013	-.0006	.05
	.10	.006	1.66	-.219	-.023	-.0027	-.0162	.10
	.20	.004	1.69	-.232	-.052	-.0074	-.0456	.20
	.30	-.007	1.80	-.283	-.074	-.0104	-.0621	.30
	.40	-.045	1.99	-.328	-.084	-.0126	-.0887	.40
70	-.40	-.013	1.97	-.358	.028	.0094	.0740	-.40
	-.30	.004	1.79	-.333	.024	.0059	.0447	-.30
	-.20	-.005	1.67	-.298	.030	.0023	.0269	-.20
	-.10	-.022	1.67	-.262	.010	.0019	.0274	-.10
	-.05	-.023	1.67	-.260	.006	.0005	.0182	-.05
	0.00	-.015	1.67	-.254	-.009	-.0019	.0127	0.00
	0.00	-.019	1.63	-.246	-.007	.0004	.0143	0.00
	.05	-.016	1.65	-.260	-.014	.0008	.0034	.05
	.10	-.013	1.65	-.262	-.022	-.0003	-.0061	.10
	.20	-.003	1.69	-.298	-.027	-.0011	-.0194	.20
	.30	.001	1.78	-.329	-.004	-.0054	-.0418	.30
	.40	-.031	1.99	-.361	-.002	-.0044	-.0676	.40
75	-.40	-.017	1.99	-.399	.027	.0008	.0786	-.40
	-.30	.008	1.82	-.356	.013	.0013	.0517	-.30
	-.20	.017	1.70	-.332	.018	-.0019	.0246	-.20
	-.10	.014	1.66	-.312	.009	-.0031	.0150	-.10
	-.05	.015	1.65	-.307	-.004	-.0029	.0140	-.05
	0.00	.008	1.65	-.302	-.011	-.0005	.0129	0.00
	0.00	.009	1.63	-.306	-.009	.0007	.0123	0.00
	.05	.012	1.64	-.306	-.014	.0025	.0076	.05
	.10	.015	1.66	-.313	-.020	.0034	.0017	.10
	.20	.017	1.72	-.332	-.008	.0024	-.0215	.20
	.30	.010	1.83	-.356	.007	.0013	-.0463	.30
	.40	-.017	2.00	-.396	.017	.0041	-.0749	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	.003	2.02	-.409	.017	-.0083	.0829	-.40
	-.30	.012	1.89	-.384	.006	-.0066	.0543	-.30
	-.20	.014	1.76	-.363	.007	-.0064	.0281	-.20
	-.10	.010	1.70	-.347	.009	-.0075	.0118	-.10
	-.05	.009	1.67	-.338	.001	-.0059	.0087	-.05
	0.00	.011	1.65	-.326	-.002	-.0022	.0063	0.00
	0.00	.009	1.65	-.319	-.011	-.0020	.0111	0.00
	.05	.011	1.67	-.334	-.014	.0035	.0053	.05
	.10	.012	1.69	-.340	-.016	.0065	-.0012	.10
	.20	.015	1.75	-.357	-.000	.0078	-.0255	.20
	.30	.012	1.86	-.376	.020	.0067	-.0497	.30
	.40	-.000	2.01	-.406	.029	.0097	-.0767	.40
85	-.40	.015	2.01	-.398	.002	-.0140	.0847	-.40
	-.30	.010	1.85	-.385	-.009	-.0104	.0510	-.30
	-.20	.007	1.73	-.380	-.001	-.0118	.0268	-.20
	-.10	.003	1.67	-.368	.008	-.0105	.0089	-.10
	-.05	.002	1.64	-.361	.005	-.0067	.0040	-.05
	0.00	-.007	1.65	-.342	-.002	.0006	.0069	0.00
	0.00	-.003	1.64	-.350	-.005	.0009	.0065	0.00
	.05	.006	1.63	-.355	-.004	.0070	.0033	.05
	.10	.006	1.63	-.359	-.004	.0106	-.0026	.10
	.20	.009	1.74	-.379	.010	.0147	-.0247	.20
	.30	.007	1.86	-.389	.036	.0122	-.0492	.30
	.40	.008	2.01	-.405	.035	.0174	-.0774	.40
90	-.40	-.001	1.97	-.423	-.019	-.0211	.0793	-.40
	-.30	-.005	1.84	-.408	-.030	-.0144	.0450	-.30
	-.20	.004	1.73	-.392	-.026	-.0168	.0197	-.20
	-.10	.011	1.62	-.374	-.014	-.0083	.0062	-.10
	-.05	.012	1.60	-.365	-.008	-.0038	.0032	-.05
	0.00	.002	1.60	-.368	.006	.0003	.0065	0.00
	0.00	.005	1.59	-.368	.002	.0021	.0057	0.00
	.05	.010	1.61	-.368	.006	.0068	.0038	.05
	.10	.008	1.61	-.369	.015	.0099	-.0021	.10
	.20	.003	1.70	-.388	.037	.0161	-.0163	.20
	.30	-.006	1.83	-.404	.066	.0164	-.0382	.30
	.40	.005	2.01	-.438	.057	.0268	-.0758	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.022	.15	-.009	.044	.1569	-.0204	-.40
	-.30	-.020	.06	-.013	.024	.1151	-.0120	-.30
	-.20	-.017	.03	-.011	.011	.0752	-.0052	-.20
	-.10	-.015	.03	-.009	.006	.0327	-.0016	-.10
	-.05	-.012	.04	-.009	.005	.0130	.0002	-.05
	0.00	-.012	.03	-.007	.004	-.0010	-.0002	0.00
	0.00	-.012	.03	-.007	.003	-.0010	-.0001	0.00
	.05	-.012	.04	-.008	.008	-.0150	.0004	.05
	.10	-.013	.04	-.009	.008	-.0349	.0020	.10
	.20	-.016	.05	-.010	.004	-.0761	.0065	.20
	.30	-.017	.08	-.009	.002	-.1146	.0127	.30
	.40	-.020	.18	-.005	-.003	-.1563	.0210	.40

5	-.40	-.031	.49	-.010	-.008	.1438	.0094	-.40
	-.30	-.016	.39	-.010	-.013	.1034	.0080	-.30
	-.20	-.010	.34	-.009	-.015	.0657	.0069	-.20
	-.10	-.009	.34	-.010	-.009	.0347	.0051	-.10
	-.05	-.008	.34	-.010	-.004	.0168	.0035	-.05
	0.00	-.008	.33	-.019	.001	-.0009	.0005	0.00
	0.00	-.008	.33	-.019	.001	.0000	.0006	0.00
	.05	-.007	.34	-.008	.013	-.0168	-.0023	.05
	.10	-.006	.35	-.008	.021	-.0354	-.0040	.10
	.20	-.008	.36	-.005	.032	-.0663	-.0051	.20
	.30	-.013	.41	-.007	.043	-.1037	-.0062	.30
	.40	-.027	.53	-.008	.063	-.1426	-.0080	.40

10	-.40	-.015	.86	.006	-.061	.1238	.0404	-.40
	-.30	-.004	.71	-.001	-.051	.0879	.0292	-.30
	-.20	-.003	.64	-.002	-.034	.0562	.0183	-.20
	-.10	-.005	.62	-.004	-.016	.0250	.0091	-.10
	-.05	-.007	.63	-.005	-.006	.0091	.0048	-.05
	0.00	-.007	.64	.005	.002	.0016	.0005	0.00
	0.00	-.006	.62	.005	.000	.0004	.0007	0.00
	.05	-.002	.63	-.004	.017	-.0086	-.0043	.05
	.10	-.001	.63	-.002	.028	-.0245	-.0087	.10
	.20	-.001	.65	-.001	.050	-.0554	-.0171	.20
	.30	-.003	.74	.000	.080	-.0873	-.0271	.30
	.40	-.018	.89	.009	.111	-.1225	-.0361	.40

15	-.40	-.040	1.12	-.003	-.112	.1012	.0756	-.40
	-.30	-.017	.98	.000	-.085	.0712	.0536	-.30
	-.20	-.008	.93	.007	-.059	.0424	.0342	-.20
	-.10	-.007	.92	.014	-.028	.0193	.0167	-.10
	-.05	-.007	.92	.016	-.012	.0080	.0086	-.05
	0.00	-.006	.91	.012	.003	-.0013	.0002	0.00
	0.00	-.007	.90	.010	.004	.0004	.0002	0.00
	.05	-.005	.91	.018	.019	-.0085	-.0083	.05
	.10	-.005	.92	.017	.037	-.0187	-.0166	.10
	.20	-.006	.95	.011	.076	-.0421	-.0341	.20
	.30	-.015	1.02	.004	.123	-.0693	-.0534	.30
	.40	-.040	1.17	.000	.183	-.0990	-.0744	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.059	1.45	.022	-.206	.0048	.1272	-.40
	-.30	-.026	1.29	.018	-.151	.0528	.0911	-.30
	-.20	-.014	1.22	.015	-.091	.0318	.0563	-.20
	-.10	-.011	1.18	.019	-.038	.0124	.0262	-.10
	-.05	-.012	1.18	.020	-.015	.0054	.0133	-.05
	0.00	-.011	1.16	.015	.006	.0011	.0009	0.00
	0.00	-.012	1.18	.015	.005	-.0026	.0017	0.00
	.05	-.013	1.19	.023	.025	-.0052	-.0123	.05
	.10	-.012	1.20	.023	.050	-.0125	-.0253	.10
	.20	-.013	1.22	.021	.106	-.0281	-.0557	.20
	.30	-.023	1.30	.021	.175	-.0489	-.0896	.30
	.40	-.054	1.47	.030	.247	-.0796	-.1223	.40
25	-.40	-.047	1.62	.019	-.262	.0547	.1703	-.40
	-.30	-.014	1.44	.023	-.188	.0272	.1234	-.30
	-.20	-.004	1.34	.023	-.112	.0119	.0757	-.20
	-.10	-.002	1.33	.027	-.046	.0052	.0347	-.10
	-.05	-.002	1.34	.030	-.018	.0027	.0170	-.05
	0.00	-.001	1.33	.022	.005	.0043	.0003	0.00
	0.00	-.001	1.34	.023	.004	.0023	.0016	0.00
	.05	-.003	1.34	.032	.031	-.0003	-.0150	.05
	.10	-.001	1.33	.030	.060	-.0021	-.0330	.10
	.20	-.001	1.36	.025	.133	-.0061	-.0774	.20
	.30	-.011	1.43	.019	.214	-.0225	-.1237	.30
	.40	-.042	1.65	.014	.298	-.0514	-.1694	.40
30	-.40	-.053	1.69	.029	-.243	.0275	.1884	-.40
	-.30	-.011	1.49	.028	-.179	-.0027	.1447	-.30
	-.20	.005	1.43	.017	-.106	-.0124	.0930	-.20
	-.10	.010	1.41	.010	-.044	-.0123	.0459	-.10
	-.05	.009	1.42	.005	-.020	-.0104	.0257	-.05
	0.00	.010	1.41	-.004	.002	.0003	.0029	0.00
	0.00	.011	1.43	-.005	.001	-.0012	.0036	0.00
	.05	.008	1.42	.006	.028	.0074	-.0189	.05
	.10	.008	1.40	.010	.053	.0108	-.0403	.10
	.20	.006	1.42	.020	.117	.0117	-.0893	.20
	.30	-.009	1.50	.030	.199	.0052	-.1436	.30
	.40	-.051	1.72	.028	.264	-.0245	-.1808	.40
35	-.40	-.029	1.81	-.006	-.233	-.0161	.2322	-.40
	-.30	-.003	1.59	.012	-.159	-.0268	.1690	-.30
	-.20	.004	1.50	.001	-.087	-.0332	.1176	-.20
	-.10	.004	1.45	-.013	-.032	-.0322	.0700	-.10
	-.05	.003	1.44	-.018	-.010	-.0178	.0371	-.05
	0.00	.003	1.42	-.024	-.007	-.0086	.0132	0.00
	0.00	.004	1.43	-.024	-.005	-.0068	.0119	0.00
	.05	.002	1.40	-.023	-.001	.0057	-.0145	.05
	.10	.004	1.44	-.014	.027	.0226	-.0519	.10
	.20	.005	1.51	.005	.097	.0297	-.1085	.20
	.30	.001	1.58	.013	.169	.0240	-.1596	.30
	.40	-.025	1.84	-.008	.251	.0123	-.2187	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.039	1.80	-.066	.012	.0056	.1561	-.40
	-.30	-.003	1.63	-.073	.035	.0030	.0988	-.30
	-.20	.004	1.51	-.040	-.043	-.0244	.1061	-.20
	-.10	.005	1.40	-.050	-.011	-.0085	.0421	-.10
	-.05	.003	1.39	-.051	-.013	-.0066	.0255	-.05
	0.00	.007	1.38	-.055	-.023	-.0044	.0106	0.00
	0.00	.007	1.40	-.057	-.016	-.0053	.0112	0.00
	.05	.003	1.38	-.057	.002	.0042	-.0135	.05
	.10	.003	1.41	-.049	.022	.0087	-.0385	.10
	.20	.004	1.52	-.034	.060	.0214	-.0963	.20
	.30	-.001	1.64	-.069	-.008	-.0046	-.0904	.30
	.40	-.037	1.85	-.067	.027	-.0084	-.1434	.40
45	-.40	-.033	1.76	-.126	.124	.0306	.1337	-.40
	-.30	-.005	1.58	-.103	.092	.0241	.0863	-.30
	-.20	.001	1.48	-.099	.074	.0180	.0486	-.20
	-.10	.001	1.44	-.083	.037	.0010	.0244	-.10
	-.05	-.004	1.43	-.068	.007	-.0049	.0187	-.05
	0.00	.003	1.43	-.067	-.010	-.0009	.0050	0.00
	0.00	.004	1.42	-.073	-.018	-.0048	.0083	0.00
	.05	-.002	1.44	-.066	-.004	.0005	-.0129	.05
	.10	-.001	1.45	-.067	-.000	.0042	-.0295	.10
	.20	.001	1.50	-.090	-.052	-.0101	-.0457	.20
	.30	-.005	1.59	-.106	-.053	-.0221	-.0872	.30
	.40	-.035	1.79	-.127	-.058	-.0258	-.1298	.40
50	-.40	-.024	1.82	-.154	.111	.0330	.1726	-.40
	-.30	.000	1.64	-.137	.114	.0276	.1124	-.30
	-.20	.002	1.52	-.128	.073	.0170	.0801	-.20
	-.10	-.002	1.47	-.123	.064	.0112	.0420	-.10
	-.05	-.005	1.47	-.122	.053	.0070	.0254	-.05
	0.00	-.002	1.44	-.119	.019	.0013	.0033	0.00
	0.00	-.003	1.44	-.120	.015	.0016	.0068	0.00
	.05	-.005	1.47	-.108	.008	.0022	-.0172	.05
	.10	-.002	1.47	-.122	-.031	-.0050	-.0359	.10
	.20	.002	1.51	-.121	-.044	-.0144	-.0783	.20
	.30	-.003	1.63	-.131	-.061	-.0223	-.1158	.30
	.40	-.025	1.80	-.149	-.046	-.0294	-.1814	.40
55	-.40	-.051	1.76	-.210	.033	.0255	.2157	-.40
	-.30	-.007	1.60	-.173	.044	.0201	.1525	-.30
	-.20	.009	1.50	-.150	.067	.0127	.1056	-.20
	-.10	.013	1.49	-.137	.061	.0060	.0724	-.10
	-.05	.013	1.50	-.134	.065	.0042	.0483	-.05
	0.00	.009	1.50	-.147	.029	.0037	.0136	0.00
	0.00	.010	1.48	-.138	.040	.0032	.0169	0.00
	.05	.013	1.51	-.133	-.065	-.0028	-.0360	.05
	.10	.013	1.51	-.138	-.061	-.0058	-.0634	.10
	.20	.008	1.51	-.145	-.050	-.0099	-.1057	.20
	.30	-.010	1.61	-.169	-.013	-.0175	-.1494	.30
	.40	-.059	1.78	-.209	.031	-.0226	-.2066	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.057	1.83	-.252	-.044	.0140	.2300	-.40
	-.30	-.016	1.68	-.209	-.006	.0133	.1590	-.30
	-.20	.001	1.59	-.188	.020	.0066	.1103	-.20
	-.10	.005	1.55	-.168	.037	.0031	.0688	-.10
	-.05	.005	1.56	-.166	.028	.0017	.0413	-.05
	0.00	-.001	1.58	-.179	-.003	.0013	.0013	0.00
	0.00	-.001	1.56	-.177	.002	.0011	.0153	0.00
	.05	.005	1.55	-.165	.003	-.0006	-.0311	.05
	.10	.004	1.55	-.168	-.017	-.0030	-.0637	.10
	.20	.001	1.58	-.181	.003	-.0072	-.1080	.20
	.30	-.015	1.68	-.207	.038	-.0108	-.1627	.30
	.40	-.059	1.86	-.260	.084	-.0129	-.2263	.40
65	-.40	-.049	1.95	-.249	-.082	.0034	.2358	-.40
	-.30	-.017	1.77	-.224	-.054	.0053	.1684	-.30
	-.20	-.006	1.66	-.217	-.018	.0023	.1092	-.20
	-.10	-.005	1.61	-.212	.000	.0008	.0553	-.10
	-.05	-.005	1.61	-.211	.000	.0005	.0236	-.05
	0.00	-.007	1.60	-.199	.005	.0006	-.0033	0.00
	0.00	-.010	1.61	-.204	-.001	-.0012	.0041	0.00
	.05	-.002	1.60	-.205	.015	.0020	-.0214	.05
	.10	-.002	1.60	-.203	.025	.0006	-.0485	.10
	.20	-.006	1.66	-.212	.034	-.0007	-.1056	.20
	.30	-.019	1.77	-.234	.082	-.0025	-.1668	.30
	.40	-.055	1.95	-.268	.139	-.0022	-.2345	.40
70	-.40	-.002	1.93	-.307	-.192	-.0097	.2157	-.40
	-.30	.010	1.77	-.289	-.136	-.0054	.1527	-.30
	-.20	.006	1.65	-.281	-.076	-.0028	.0952	-.20
	-.10	-.011	1.66	-.261	-.015	-.0021	.0443	-.10
	-.05	-.014	1.65	-.257	-.001	-.0021	.0213	-.05
	0.00	-.016	1.66	-.246	.004	.0017	.0055	0.00
	0.00	-.018	1.66	-.244	.018	-.0000	-.0026	0.00
	.05	-.022	1.64	-.250	.019	.0017	-.0198	.05
	.10	-.018	1.65	-.255	.035	.0033	-.0456	.10
	.20	.006	1.66	-.281	.089	.0049	-.0928	.20
	.30	.013	1.77	-.285	.155	.0079	-.1516	.30
	.40	.003	1.94	-.307	.228	.0120	-.2136	.40
75	-.40	-.015	2.00	-.367	-.224	-.0203	.2369	-.40
	-.30	.007	1.82	-.333	-.157	-.0162	.1644	-.30
	-.20	.015	1.69	-.313	-.087	-.0104	.0957	-.20
	-.10	.014	1.64	-.300	-.022	-.0069	.0373	-.10
	-.05	.014	1.62	-.294	-.005	-.0036	.0155	-.05
	0.00	.004	1.61	-.306	-.007	-.0000	.0090	0.00
	0.00	-.001	1.63	-.311	.008	.0008	.0028	0.00
	.05	.014	1.62	-.293	.019	.0040	-.0133	.05
	.10	.014	1.63	-.297	.031	.0081	-.0332	.10
	.20	.016	1.69	-.308	.099	.0132	-.0938	.20
	.30	.006	1.83	-.329	.180	.0157	-.1619	.30
	.40	-.021	2.04	-.365	.279	.0244	-.2335	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB2WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	.001	2.00	-.368	-.248	-.0332	.2483	-.40
	-.30	.013	1.82	-.343	-.177	-.0238	.1717	-.30
	-.20	.019	1.71	-.338	-.100	-.0168	.1004	-.20
	-.10	.016	1.64	-.326	-.029	-.0112	.0381	-.10
	-.05	.016	1.64	-.327	-.007	-.0063	.0156	-.05
	0.00	.011	1.63	-.329	.005	.0026	.0040	0.00
	0.00	.008	1.64	-.331	.016	-.0026	-.0014	0.00
	.05	.015	1.62	-.319	.016	.0061	-.0119	.05
	.10	.015	1.63	-.323	.032	.0118	-.0335	.10
	.20	.018	1.71	-.334	.106	.0174	-.0978	.20
	.30	.012	1.82	-.346	.199	.0247	-.1688	.30
	.40	-.005	2.00	-.367	.287	.0356	-.2451	.40
85	-.40	.028	1.99	-.361	-.294	-.0409	.2612	-.40
	-.30	.013	1.81	-.352	-.200	-.0320	.1745	-.30
	-.20	.007	1.69	-.358	-.115	-.0242	.1012	-.20
	-.10	.002	1.63	-.355	-.030	-.0160	.0362	-.10
	-.05	.002	1.60	-.348	-.004	-.0095	.0120	-.05
	0.00	.000	1.60	-.340	.007	-.0003	.0017	0.00
	0.00	.002	1.60	-.338	.013	-.0022	.0004	0.00
	.05	.004	1.59	-.342	.017	.0076	-.0121	.05
	.10	.004	1.60	-.346	.038	.0158	-.0344	.10
	.20	.008	1.70	-.356	.121	.0243	-.1011	.20
	.30	.014	1.83	-.362	.222	.0317	-.1740	.30
	.40	.025	1.98	-.365	.316	.0454	-.2582	.40
90	-.40	.035	1.95	-.361	-.355	-.0542	.2728	-.40
	-.30	.006	1.81	-.366	-.226	-.0380	.1688	-.30
	-.20	.013	1.70	-.376	-.127	-.0309	.0884	-.20
	-.10	.018	1.56	-.361	-.051	-.0159	.0369	-.10
	-.05	.020	1.56	-.365	-.018	-.0083	.0169	-.05
	0.00	.009	1.55	-.355	.007	.0017	.0084	0.00
	0.00	.014	1.52	-.345	.003	.0044	.0072	0.00
	.05	.019	1.56	-.366	.031	.0092	-.0081	.05
	.10	.016	1.58	-.365	.063	.0154	-.0317	.10
	.20	.012	1.67	-.368	.149	.0277	-.0905	.20
	.30	.007	1.79	-.367	.248	.0384	-.1684	.30
	.40	.040	1.97	-.372	.325	.0565	-.2611	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	-.40	-.034	.18	.007	.009	.1476	.0172	-.40
	-.30	-.035	.08	-.011	-.006	.1091	.0089	-.30
	-.20	-.034	.04	-.009	-.014	.0720	.0032	-.20
	-.10	-.033	.04	-.002	-.017	.0309	-.0002	-.10
	-.05	-.030	.05	.000	-.015	.0122	-.0008	-.05
	0.00	-.029	.03	-.004	-.017	-.0016	-.0010	0.00
	0.00	-.029	.03	-.004	-.016	-.0018	-.0008	0.00
	.05	-.029	.04	.002	-.022	-.0145	-.0008	.05
	.10	-.030	.04	-.001	-.018	-.0338	.0003	.10
	.20	-.033	.05	-.007	-.011	-.0736	.0041	.20
	.30	-.033	.10	-.006	.002	-.1105	.0102	.30
	.40	-.035	.21	.013	.023	-.1487	.0195	.40

5	-.40	-.046	.52	.012	.010	.1414	.0185	-.40
	-.30	-.034	.40	-.008	-.010	.1016	.0100	-.30
	-.20	-.029	.35	-.012	-.024	.0649	.0047	-.20
	-.10	-.030	.35	-.011	-.025	.0342	.0012	-.10
	-.05	-.030	.35	-.010	-.024	.0166	.0000	-.05
	0.00	-.029	.33	-.020	-.018	-.0012	-.0004	0.00
	0.00	-.029	.33	-.020	-.018	-.0007	-.0004	0.00
	.05	-.029	.35	-.009	-.013	-.0168	-.0009	.05
	.10	-.028	.35	-.009	-.008	-.0350	-.0006	.10
	.20	-.028	.36	-.008	.002	-.0659	.0028	.20
	.30	-.032	.42	-.008	.013	-.1034	.0098	.30
	.40	-.044	.56	.008	.033	-.1431	.0195	.40

10	-.40	-.056	.88	.057	.005	.1271	.0248	-.40
	-.30	-.031	.71	.018	-.013	.0901	.0125	-.30
	-.20	-.023	.63	.009	-.021	.0569	.0043	-.20
	-.10	-.021	.63	.007	-.022	.0254	.0004	-.10
	-.05	-.023	.64	.006	-.019	.0095	-.0007	-.05
	0.00	-.022	.62	.003	-.022	.0014	-.0004	0.00
	0.00	-.022	.63	.002	-.020	.0013	-.0003	0.00
	.05	-.022	.64	.007	-.021	-.0091	-.0007	.05
	.10	-.021	.64	.007	-.017	-.0253	-.0001	.10
	.20	-.022	.66	.008	-.004	-.0572	.0024	.20
	.30	-.029	.74	.016	.017	-.0896	.0057	.30
	.40	-.053	.91	.055	.046	-.1245	.0111	.40

15	-.40	-.030	1.20	.046	.038	.1110	.0422	-.40
	-.30	-.014	1.02	.024	.010	.0785	.0217	-.30
	-.20	-.014	.95	.023	-.009	.0476	.0085	-.20
	-.10	-.020	.93	.030	-.017	.0220	.0016	-.10
	-.05	-.023	.92	.031	-.018	.0101	.0001	-.05
	0.00	-.024	.91	.023	-.021	.0010	.0001	0.00
	0.00	-.024	.91	.024	-.020	-.0012	.0000	0.00
	.05	-.024	.92	.035	-.019	-.0098	-.0004	.05
	.10	-.021	.93	.032	-.016	-.0213	-.0007	.10
	.20	-.014	.97	.025	-.007	-.0480	-.0025	.20
	.30	-.012	1.07	.023	.005	-.0793	-.0039	.30
	.40	-.026	1.27	.042	.029	-.1120	-.0068	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.067	1.52	.061	.060	.0946	.0655	-.40
	-.30	-.031	1.36	.042	.027	.0691	.0427	-.30
	-.20	-.018	1.26	.041	.009	.0432	.0216	-.20
	-.10	-.018	1.23	.048	-.005	.0208	.0083	-.10
	-.05	-.019	1.22	.049	-.011	.0104	.0034	-.05
	0.00	-.031	1.22	.047	-.021	.0002	.0004	0.00
	0.00	-.030	1.21	.047	-.021	.0012	.0002	0.00
	.05	-.023	1.24	.054	-.024	-.0088	-.0035	.05
	.10	-.020	1.24	.051	-.028	-.0208	-.0070	.10
	.20	-.019	1.28	.046	-.028	-.0436	-.0158	.20
	.30	-.026	1.38	.045	-.021	-.0655	-.0266	.30
	.40	-.060	1.55	.062	-.013	-.0911	-.0329	.40
25	-.40	-.120	1.70	.100	.111	.0772	.0783	-.40
	-.30	-.048	1.54	.070	.078	.0575	.0598	-.30
	-.20	-.015	1.45	.059	.041	.0405	.0376	-.20
	-.10	-.005	1.45	.062	.010	.0338	.0186	-.10
	-.05	-.004	1.44	.067	-.001	.0247	.0088	-.05
	0.00	-.008	1.40	.066	-.018	.0117	.0006	0.00
	0.00	-.007	1.41	.067	-.016	.0079	.0020	0.00
	.05	-.003	1.42	.080	-.031	-.0107	-.0066	.05
	.10	-.003	1.45	.073	-.039	-.0310	-.0140	.10
	.20	-.014	1.49	.062	-.057	-.0411	-.0268	.20
	.30	-.049	1.56	.067	-.067	-.0527	-.0417	.30
	.40	-.125	1.77	.087	-.050	-.0724	-.0492	.40
30	-.40	-.083	1.83	.143	-.014	.0195	.0456	-.40
	-.30	-.029	1.71	.069	.091	.0426	.0539	-.30
	-.20	-.012	1.61	.050	.105	.0307	.0469	-.20
	-.10	-.011	1.52	.039	.049	.0235	.0232	-.10
	-.05	-.012	1.47	.043	.019	.0176	.0116	-.05
	0.00	-.012	1.49	.048	.002	.0112	.0042	0.00
	0.00	-.013	1.49	.051	.006	.0076	.0061	0.00
	.05	-.016	1.51	.075	-.008	.0085	-.0052	.05
	.10	-.014	1.52	.078	-.033	-.0077	-.0132	.10
	.20	-.014	1.61	.055	-.083	-.0241	-.0274	.20
	.30	-.030	1.76	.069	-.113	-.0418	-.0474	.30
	.40	-.082	1.87	.154	.103	-.0175	-.0055	.40
35	-.40	-.104	2.05	.201	.057	.0327	.0509	-.40
	-.30	-.037	1.76	.105	-.016	-.0170	.0268	-.30
	-.20	.001	1.68	.028	.140	.0307	.0699	-.20
	-.10	.010	1.63	.016	.101	.0353	.0496	-.10
	-.05	.010	1.56	.015	.077	.0255	.0348	-.05
	0.00	.008	1.49	.031	.042	.0277	.0208	0.00
	0.00	.008	1.52	.030	.049	.0284	.0218	0.00
	.05	.005	1.52	.040	.037	.0286	.0129	.05
	.10	.003	1.51	.045	.029	.0265	.0065	.10
	.20	-.005	1.64	.082	-.026	.0083	-.0225	.20
	.30	-.036	1.76	.094	.031	.0171	-.0097	.30
	.40	-.101	2.04	.197	-.003	-.0291	-.0137	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
40	-.40	-.101	1.90	.156	.201	.0215	.1140	-.40
	-.30	-.031	1.75	.149	.060	.0193	.0291	-.30
	-.20	-.010	1.70	.039	.095	.0136	.0738	-.20
	-.10	.002	1.42	.013	.117	.0099	.1010	-.10
	-.05	.001	1.45	.028	.099	.0073	.0874	-.05
	0.00	.006	1.43	.025	.073	.0044	.0730	0.00
	0.00	.006	1.41	.021	.068	.0025	.0705	0.00
	.05	-.001	1.45	.032	.056	-.0012	.0615	.05
	.10	-.001	1.44	.051	.045	-.0074	.0481	.10
	.20	-.007	1.57	.092	.025	-.0136	.0227	.20
	.30	-.032	1.71	.151	-.018	-.0205	-.0133	.30
	.40	-.097	1.82	.128	-.069	-.0400	-.0938	.40
45	-.40	-.115	1.89	.072	.195	.0224	.1884	-.40
	-.30	-.030	1.63	.088	.100	.0322	.0929	-.30
	-.20	.000	1.68	.064	.024	.0130	.0221	-.20
	-.10	.007	1.48	.026	.113	.0079	.1155	-.10
	-.05	.007	1.48	.042	.089	.0042	.0950	-.05
	0.00	.012	1.46	.038	.045	.0019	.0684	0.00
	0.00	.011	1.46	.036	.046	.0010	.0678	0.00
	.05	.008	1.48	.067	.015	-.0014	.0477	.05
	.10	.008	1.48	.079	-.010	-.0077	.0232	.10
	.20	-.002	1.56	.105	-.040	-.0190	-.0156	.20
	.30	-.034	1.66	.078	-.063	-.0263	-.0765	.30
	.40	-.122	1.97	.044	-.122	-.0002	-.1659	.40
50	-.40	-.089	1.86	-.017	.243	.0325	.2163	-.40
	-.30	-.027	1.70	.043	.155	.0229	.1503	-.30
	-.20	-.001	1.52	.052	.057	.0163	.0686	-.20
	-.10	-.001	1.47	.016	.057	.0081	.0853	-.10
	-.05	-.001	1.48	.023	.031	.0032	.0614	-.05
	0.00	.005	1.49	.034	.002	.0006	.0422	0.00
	0.00	.003	1.51	.034	.004	.0016	.0400	0.00
	.05	-.001	1.48	.037	-.024	-.0011	.0150	.05
	.10	.002	1.48	.046	-.047	-.0060	-.0131	.10
	.20	-.002	1.55	.045	-.074	-.0130	-.0635	.20
	.30	-.028	1.71	.034	-.127	-.0182	-.1351	.30
	.40	-.095	1.86	-.012	-.102	-.0290	-.1710	.40
55	-.40	-.092	1.89	-.075	.196	.0321	.1897	-.40
	-.30	-.027	1.73	.012	.076	.0239	.1052	-.30
	-.20	-.001	1.59	.018	.033	.0152	.0727	-.20
	-.10	.000	1.56	.024	.006	.0080	.0401	-.10
	-.05	-.002	1.57	.029	-.017	.0047	.0194	-.05
	0.00	.003	1.58	.027	-.044	.0043	-.0017	0.00
	0.00	.001	1.58	.029	-.035	.0031	.0023	0.00
	.05	.001	1.57	.045	-.062	-.0003	-.0319	.05
	.10	.002	1.57	.037	-.083	-.0049	-.0578	.10
	.20	-.003	1.60	.012	-.106	-.0114	-.0986	.20
	.30	-.025	1.72	-.025	-.071	-.0190	-.1111	.30
	.40	-.091	1.92	-.092	-.045	-.0262	-.1255	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
60	-.40	-.088	1.95	-.153	.167	.0273	.1480	-.40
	-.30	-.023	1.74	-.098	.084	.0198	.1080	-.30
	-.20	-.004	1.65	-.045	.033	.0121	.0776	-.20
	-.10	-.001	1.60	-.024	.015	.0065	.0570	-.10
	-.05	-.000	1.61	-.017	-.002	.0032	.0368	-.05
	0.00	.005	1.59	.003	-.015	-.0004	.0233	0.00
	0.00	.003	1.60	-.003	-.050	.0002	-.0144	0.00
	.05	.004	1.61	-.020	-.045	-.0006	-.0230	.05
	.10	.004	1.61	-.021	-.054	-.0040	-.0348	.10
	.20	-.001	1.64	-.044	-.061	-.0088	-.0642	.20
	.30	-.022	1.72	-.104	-.047	-.0146	-.0848	.30
	.40	-.090	1.95	-.163	-.041	-.0212	-.1091	.40
65	-.40	-.076	2.02	-.227	.122	.0182	.1152	-.40
	-.30	-.021	1.79	-.165	.081	.0140	.0906	-.30
	-.20	.001	1.67	-.098	.034	.0089	.0683	-.20
	-.10	.006	1.65	-.068	-.002	.0056	.0411	-.10
	-.05	.005	1.65	-.063	-.016	.0032	.0236	-.05
	0.00	.012	1.64	-.059	-.023	.0029	.0062	0.00
	0.00	.012	1.65	-.066	-.028	.0038	.0071	0.00
	.05	.008	1.64	-.065	-.043	.0005	-.0111	.05
	.10	.007	1.64	-.072	-.058	-.0003	-.0277	.10
	.20	.001	1.68	-.104	-.063	-.0055	-.0538	.20
	.30	-.024	1.79	-.169	-.050	-.0101	-.0755	.30
	.40	-.086	2.03	-.227	-.015	-.0124	-.0904	.40
70	-.40	-.067	2.02	-.194	.118	.0115	.1225	-.40
	-.30	-.017	1.84	-.186	.070	.0076	.0759	-.30
	-.20	-.005	1.75	-.141	.043	.0044	.0566	-.20
	-.10	-.006	1.69	-.114	.000	.0011	.0332	-.10
	-.05	-.006	1.69	-.110	-.016	.0009	.0198	-.05
	0.00	.001	1.67	-.104	-.028	.0009	.0085	0.00
	0.00	-.005	1.69	-.107	-.022	-.0003	.0056	0.00
	.05	-.005	1.71	-.108	-.037	.0012	-.0068	.05
	.10	-.004	1.70	-.113	-.048	.0002	-.0181	.10
	.20	-.006	1.74	-.137	-.057	-.0009	-.0487	.20
	.30	-.019	1.85	-.183	-.027	-.0035	-.0685	.30
	.40	-.079	2.05	-.196	-.008	-.0044	-.1048	.40
75	-.40	-.094	2.04	-.215	.102	.0021	.1299	-.40
	-.30	-.017	1.87	-.207	.048	.0010	.0812	-.30
	-.20	.015	1.75	-.211	.027	.0001	.0447	-.20
	-.10	.003	1.71	-.169	.003	-.0010	.0281	-.10
	-.05	.003	1.70	-.163	-.017	-.0007	.0192	-.05
	0.00	.000	1.70	-.161	-.015	.0027	.0035	0.00
	0.00	.003	1.67	-.155	-.022	.0018	.0104	0.00
	.05	.009	1.69	-.170	-.034	.0037	-.0004	.05
	.10	.010	1.69	-.179	-.044	.0045	-.0121	.10
	.20	.011	1.75	-.205	-.033	.0031	-.0408	.20
	.30	-.018	1.89	-.209	-.011	.0027	-.0726	.30
	.40	-.099	2.07	-.218	-.006	.0054	-.1118	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.080	2.13	-.263	.073	-.0044	.1267	-.40
	-.30	-.017	1.92	-.229	.026	-.0043	.0793	-.30
	-.20	.006	1.77	-.219	.014	-.0046	.0437	-.20
	-.10	.007	1.69	-.207	.007	-.0051	.0197	-.10
	-.05	.008	1.69	-.203	-.005	-.0039	.0105	-.05
	0.00	.008	1.67	-.203	-.010	.0034	.0042	0.00
	0.00	.003	1.67	-.200	-.013	.0023	.0051	0.00
	.05	.003	1.67	-.198	-.032	.0062	.0014	.05
	.10	.005	1.70	-.208	-.035	.0092	-.0093	.10
	.20	.002	1.79	-.216	-.018	.0106	-.0395	.20
	.30	-.018	1.92	-.228	.007	.0075	-.0749	.30
	.40	-.082	2.16	-.262	.008	.0132	-.1169	.40
85	-.40	-.049	2.02	-.243	.063	-.0112	.1246	-.40
	-.30	-.017	1.91	-.227	.018	-.0094	.0780	-.30
	-.20	.000	1.80	-.229	.002	-.0113	.0390	-.20
	-.10	.001	1.72	-.222	-.003	-.0089	.0130	-.10
	-.05	-.001	1.69	-.214	-.010	-.0053	.0057	-.05
	0.00	-.003	1.67	-.218	-.007	.0026	.0064	0.00
	0.00	-.004	1.67	-.215	-.002	-.0004	.0022	0.00
	.05	-.002	1.70	-.214	-.015	.0080	.0013	.05
	.10	-.001	1.69	-.215	-.014	.0122	-.0075	.10
	.20	-.003	1.81	-.232	-.001	.0155	-.0375	.20
	.30	-.017	1.90	-.231	.017	.0133	-.0726	.30
	.40	-.053	2.00	-.246	.007	.0174	-.1178	.40
90	-.40	-.031	2.08	-.199	.022	-.0176	.1180	-.40
	-.30	-.015	1.93	-.218	-.008	-.0136	.0688	-.30
	-.20	-.008	1.80	-.243	-.021	-.0134	.0297	-.20
	-.10	-.007	1.68	-.244	-.017	-.0078	.0087	-.10
	-.05	-.006	1.65	-.245	-.011	-.0022	.0031	-.05
	0.00	-.009	1.65	-.242	.002	.0033	.0047	0.00
	0.00	-.011	1.64	-.244	-.000	.0029	.0053	0.00
	.05	-.004	1.65	-.240	.003	.0073	.0008	.05
	.10	-.006	1.68	-.239	.008	.0114	-.0064	.10
	.20	-.011	1.81	-.242	.022	.0181	-.0283	.20
	.30	-.023	1.91	-.232	.043	.0166	-.0615	.30
	.40	-.044	2.08	-.225	.018	.0256	-.1126	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.016	.15	.008	.040	.1551	-.0145	-.40
	-.30	-.013	.07	-.012	.019	.1140	-.0104	-.30
	-.20	-.010	.03	-.020	.007	.0750	-.0060	-.20
	-.10	-.007	.03	-.019	.004	.0328	-.0042	-.10
	-.05	-.007	.03	-.012	.001	.0132	-.0031	-.05
	0.00	-.007	.02	-.010	-.001	-.0000	-.0025	0.00
	0.00	-.031	.04	-.009	.007	-.0012	-.0013	0.00
	.05	-.031	.05	-.012	.004	-.0147	.0001	.05
	.10	-.032	.05	-.013	.003	-.0342	.0018	.10
	.20	-.011	.05	-.018	-.004	-.0737	.0060	.20
	.30	-.010	.07	-.010	-.006	-.1108	.0119	.30
	.40	-.014	.18	.010	-.003	-.1519	.0205	.40

5	-.40	-.046	.51	.050	-.013	.1416	.0165	-.40
	-.30	-.012	.37	.005	-.020	.1005	.0100	-.30
	-.20	-.008	.33	-.012	-.020	.0649	.0061	-.20
	-.10	-.008	.31	-.014	-.015	.0345	.0033	-.10
	-.05	-.009	.31	-.010	-.010	.0172	.0010	-.05
	0.00	-.008	.30	-.017	.001	.0005	-.0019	0.00
	0.00	-.008	.30	-.018	.004	-.0001	-.0019	0.00
	.05	-.008	.31	-.008	.003	-.0154	-.0035	.05
	.10	-.007	.33	-.011	.010	-.0346	-.0052	.10
	.20	-.007	.33	-.007	.023	-.0635	-.0061	.20
	.30	-.011	.39	.007	.039	-.0998	-.0073	.30
	.40	-.027	.54	.050	.065	-.1397	-.0076	.40

10	-.40	-.039	.83	.024	-.048	.1201	.0521	-.40
	-.30	-.010	.68	.001	-.049	.0857	.0343	-.30
	-.20	-.003	.62	-.002	-.038	.0558	.0192	-.20
	-.10	-.004	.60	.009	-.023	.0262	.0076	-.10
	-.05	-.005	.61	.004	-.014	.0107	.0034	-.05
	0.00	-.005	.60	.001	.003	.0021	-.0010	0.00
	0.00	-.005	.60	.001	.003	.0021	-.0010	0.00
	.05	-.005	.61	.005	.006	-.0077	-.0052	.05
	.10	-.004	.61	.011	.016	-.0217	-.0097	.10
	.20	-.003	.64	.001	.044	-.0526	-.0193	.20
	.30	-.011	.72	.004	.076	-.0829	-.0292	.30
	.40	-.034	.89	.032	.116	-.1166	-.0397	.40

15	-.40	-.058	1.18	.057	-.084	.0989	.1015	-.40
	-.30	-.045	.99	.025	-.070	.0710	.0661	-.30
	-.20	-.012	.92	.019	-.053	.0444	.0390	-.20
	-.10	-.010	.87	.023	-.031	.0204	.0179	-.10
	-.05	-.011	.88	.024	-.020	.0101	.0082	-.05
	0.00	-.009	.88	.017	.003	.0035	-.0002	0.00
	0.00	-.009	.86	.017	.001	.0009	-.0001	0.00
	.05	-.010	.86	.023	.010	-.0076	-.0102	.05
	.10	-.009	.90	.021	.026	-.0178	-.0194	.10
	.20	-.010	.94	.025	.061	-.0404	-.0402	.20
	.30	-.044	1.03	.031	.107	-.0696	-.0634	.30
	.40	-.058	1.25	.068	.158	-.0972	-.0899	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.065	1.48	.076	-.113	.0808	.1608	-.40
	-.30	-.030	1.29	.055	-.097	.0556	.1143	-.30
	-.20	-.023	1.21	.040	-.064	.0360	.0679	-.20
	-.10	-.014	1.18	.040	-.033	.0197	.0303	-.10
	-.05	-.016	1.17	.041	-.020	.0092	.0153	-.05
	0.00	-.001	1.16	.035	-.002	.0018	-.0002	0.00
	0.00	-.001	1.15	.035	-.001	.0022	.0003	0.00
	.05	.009	1.15	.038	.006	-.0062	-.0166	.05
	.10	.008	1.17	.037	.025	-.0154	-.0327	.10
	.20	-.010	1.21	.047	.067	-.0341	-.0675	.20
	.30	-.042	1.31	.067	.132	-.0503	-.1133	.30
	.40	-.108	1.53	.100	.181	-.0749	-.1498	.40
25	-.40	-.056	1.67	.066	-.105	.0664	.1846	-.40
	-.30	-.013	1.50	.043	-.081	.0471	.1401	-.30
	-.20	-.009	1.43	.041	-.053	.0350	.0897	-.20
	-.10	-.002	1.42	.047	-.018	.0318	.0392	-.10
	-.05	-.005	1.39	.049	-.006	.0237	.0187	-.05
	0.00	-.004	1.38	.062	.005	.0127	-.0004	0.00
	0.00	-.004	1.38	.061	.007	.0119	.0002	0.00
	.05	-.005	1.38	.059	.009	-.0071	-.0194	.05
	.10	-.003	1.42	.057	.014	-.0241	-.0392	.10
	.20	-.005	1.40	.042	.047	-.0286	-.0855	.20
	.30	-.012	1.52	.048	.076	-.0421	-.1376	.30
	.40	-.056	1.71	.077	.112	-.0647	-.1760	.40
30	-.40	-.060	1.75	.155	-.331	-.0052	.2090	-.40
	-.30	-.021	1.66	.048	-.076	.0325	.1377	-.30
	-.20	.009	1.57	.029	.001	.0243	.1026	-.20
	-.10	-.001	1.47	.027	.016	.0241	.0434	-.10
	-.05	-.001	1.45	.033	.016	.0190	.0197	-.05
	0.00	-.003	1.50	.041	.026	.0113	.0018	0.00
	0.00	-.004	1.49	.042	.027	.0159	.0009	0.00
	.05	-.006	1.50	.059	.024	.0096	-.0217	.05
	.10	-.006	1.52	.059	.012	-.0047	-.0422	.10
	.20	.008	1.55	.038	.011	-.0162	-.0941	.20
	.30	-.021	1.69	.054	.003	-.0344	-.1434	.30
	.40	-.058	1.79	.155	.353	-.0047	-.1985	.40
35	-.40	-.064	1.94	.225	-.227	.0162	.1946	-.40
	-.30	-.011	1.75	.118	-.231	-.0286	.1517	-.30
	-.20	.013	1.60	.018	.118	.0265	.0807	-.20
	-.10	.013	1.61	.019	.137	.0374	.0382	-.10
	-.05	.009	1.57	.019	.125	.0315	.0105	-.05
	0.00	.011	1.51	.019	.123	.0313	-.0155	0.00
	0.00	.010	1.49	.025	.105	.0299	-.0088	0.00
	.05	.008	1.51	.035	.104	.0317	-.0295	.05
	.10	.013	1.52	.042	.112	.0309	-.0461	.10
	.20	.011	1.65	.077	.048	.0068	-.0893	.20
	.30	-.011	1.74	.114	.181	.0150	-.1441	.30
	.40	-.068	1.91	.216	.248	-.0107	-.1901	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.068	1.86	.156	.100	.0203	.1481	-.40
	-.30	-.013	1.66	.158	-.055	.0181	.0801	-.30
	-.20	.009	1.69	.045	.034	.0037	.0947	-.20
	-.10	.031	1.40	.014	.115	.0138	.1008	-.10
	-.05	.026	1.42	.024	.115	.0140	.0735	-.05
	0.00	.026	1.40	.017	.101	.0092	.0532	0.00
	0.00	.025	1.39	.018	.096	.0085	.0566	0.00
	.05	.023	1.39	.032	.086	.0037	.0435	.05
	.10	.029	1.43	.046	.085	-.0028	.0277	.10
	.20	.016	1.57	.092	.133	.0041	-.0498	.20
	.30	-.013	1.68	.159	.099	-.0153	-.0794	.30
	.40	-.064	1.79	.127	-.016	-.0390	-.1398	.40
45	-.40	-.080	1.79	.079	.043	.0113	.2594	-.40
	-.30	-.006	1.54	.086	.058	.0285	.1110	-.30
	-.20	.019	1.47	.091	-.017	.0214	-.0031	-.20
	-.10	.031	1.34	.014	.101	.0095	.1143	-.10
	-.05	.026	1.35	.033	.094	.0063	.0952	-.05
	0.00	.031	1.33	.028	.056	.0028	.0703	0.00
	0.00	.031	1.35	.033	.059	.0035	.0684	0.00
	.05	.030	1.34	.049	.035	-.0003	.0482	.05
	.10	.035	1.36	.069	.009	-.0061	.0231	.10
	.20	.019	1.42	.106	-.024	-.0170	-.0164	.20
	.30	-.007	1.52	.077	-.035	-.0213	-.1142	.30
	.40	-.085	1.79	.060	.006	.0020	-.2721	.40
50	-.40	-.071	1.82	-.027	.135	.0293	.2501	-.40
	-.30	-.008	1.65	.031	.098	.0197	.1750	-.30
	-.20	.028	1.50	.042	.047	.0159	.0868	-.20
	-.10	.031	1.46	.008	.060	.0082	.1017	-.10
	-.05	.032	1.46	.021	.044	.0041	.0723	-.05
	0.00	.030	1.44	.029	.020	.0029	.0379	0.00
	0.00	.030	1.44	.032	.021	.0031	.0413	0.00
	.05	.028	1.43	.039	-.001	.0008	.0094	.05
	.10	.028	1.45	.039	-.017	-.0017	-.0275	.10
	.20	.025	1.48	.044	-.038	-.0091	-.0934	.20
	.30	-.010	1.63	.033	-.085	-.0165	-.1742	.30
	.40	-.072	1.80	-.007	-.034	-.0274	-.2283	.40
55	-.40	-.076	1.85	-.046	.049	.0250	.2597	-.40
	-.30	-.009	1.69	.020	.005	.0210	.1465	-.30
	-.20	.028	1.54	.015	.004	.0131	.0879	-.20
	-.10	.032	1.53	.015	.003	.0083	.0473	-.10
	-.05	.033	1.53	.015	-.006	.0054	.0242	-.05
	0.00	.039	1.57	.015	-.028	.0044	-.0058	0.00
	0.00	.037	1.54	.021	-.023	.0032	-.0057	0.00
	.05	.036	1.54	.029	-.045	.0008	-.0390	.05
	.10	.035	1.54	.024	-.050	-.0013	-.0745	.10
	.20	.027	1.53	.007	-.059	-.0079	-.1251	.20
	.30	-.012	1.65	-.012	-.003	-.0153	-.1648	.30
	.40	-.083	1.86	-.045	.043	-.0214	-.2282	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.056	1.88	-.087	-.040	.0174	.2504	-.40
	-.30	-.008	1.72	-.054	-.021	.0139	.1790	-.30
	-.20	.011	1.64	-.030	-.004	.0094	.1075	-.20
	-.10	.008	1.59	-.028	.006	.0049	.0755	-.10
	-.05	.005	1.60	-.025	.013	.0046	.0414	-.05
	0.00	.001	1.59	-.016	.019	.0026	.0151	0.00
	0.00	-.001	1.60	-.017	-.031	.0025	-.0219	0.00
	.05	-.000	1.59	-.019	-.024	.0009	-.0351	.05
	.10	.001	1.58	-.024	-.014	-.0001	-.0581	.10
	.20	.007	1.62	-.030	.007	-.0030	-.1172	.20
	.30	-.007	1.73	-.047	.036	-.0096	-.1761	.30
	.40	-.056	1.90	-.083	.104	-.0121	-.2416	.40
65	-.40	-.048	1.98	-.166	-.088	.0056	.2430	-.40
	-.30	-.002	1.75	-.111	-.052	.0054	.1867	-.30
	-.20	.018	1.64	-.091	-.038	.0042	.1166	-.20
	-.10	.028	1.63	-.078	-.020	.0025	.0569	-.10
	-.05	.032	1.63	-.075	-.018	.0014	.0304	-.05
	0.00	.036	1.62	-.071	-.008	.0035	-.0047	0.00
	0.00	.034	1.63	-.078	-.021	.0041	.0034	0.00
	.05	.036	1.62	-.070	-.011	.0025	-.0270	.05
	.10	.033	1.62	-.076	-.003	.0029	-.0579	.10
	.20	.019	1.66	-.089	.029	.0004	-.1217	.20
	.30	-.003	1.78	-.119	.073	-.0012	-.1839	.30
	.40	-.052	1.99	-.172	.164	.0009	-.2424	.40
70	-.40	-.073	2.05	-.157	-.133	-.0099	.2655	-.40
	-.30	-.008	1.84	-.157	-.101	-.0047	.1819	-.30
	-.20	.010	1.70	-.129	-.050	-.0022	.1230	-.20
	-.10	.024	1.66	-.126	-.025	-.0020	.0530	-.10
	-.05	.022	1.64	-.125	-.016	-.0001	.0225	-.05
	0.00	.026	1.67	-.117	-.014	.0022	-.0026	0.00
	0.00	.029	1.66	-.120	-.012	.0030	-.0023	0.00
	.05	.017	1.65	-.125	-.012	.0040	-.0246	.05
	.10	.019	1.64	-.126	-.003	.0061	-.0537	.10
	.20	.017	1.70	-.134	.044	.0051	-.1235	.20
	.30	.008	1.81	-.155	.122	.0075	-.1792	.30
	.40	-.070	2.06	-.162	.206	.0102	-.2593	.40
75	-.40	-.036	2.07	-.206	-.170	-.0196	.2804	-.40
	-.30	.005	1.86	-.198	-.128	-.0149	.1896	-.30
	-.20	.036	1.73	-.197	-.072	-.0096	.1131	-.20
	-.10	.028	1.68	-.180	-.016	-.0053	.0460	-.10
	-.05	.023	1.68	-.171	-.008	-.0015	.0193	-.05
	0.00	.034	1.68	-.171	-.007	.0004	-.0002	0.00
	0.00	.009	1.69	-.173	.002	-.0005	-.0011	0.00
	.05	.011	1.69	-.168	.002	.0048	-.0195	.05
	.10	.014	1.69	-.175	.014	.0098	-.0460	.10
	.20	.027	1.75	-.189	.072	.0122	-.1090	.20
	.30	-.002	1.89	-.189	.149	.0168	-.1879	.30
	.40	-.056	2.12	-.207	.216	.0236	-.2731	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB5WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.042	2.11	-.219	-.203	-.0304	.2896	-.40
	-.30	.009	1.91	-.210	-.161	-.0218	.1989	-.30
	-.20	.027	1.76	-.210	-.093	-.0161	.1137	-.20
	-.10	.028	1.69	-.214	-.028	-.0098	.0435	-.10
	-.05	.024	1.69	-.217	-.021	-.0038	.0198	-.05
	0.00	.015	1.69	-.213	-.010	.0008	-.0002	0.00
	0.00	.016	1.67	-.211	.001	-.0002	-.0030	0.00
	.05	.021	1.67	-.214	-.002	.0071	-.0186	.05
	.10	.024	1.69	-.217	.011	.0137	-.0430	.10
	.20	.022	1.76	-.207	.078	.0203	-.1108	.20
	.30	.010	1.91	-.206	.172	.0272	-.1948	.30
	.40	-.045	2.09	-.221	.266	.0380	-.2889	.40
85	-.40	-.014	2.12	-.215	-.235	-.0407	.2971	-.40
	-.30	.012	1.92	-.204	-.183	-.0295	.1990	-.30
	-.20	.024	1.79	-.229	-.111	-.0231	.1120	-.20
	-.10	.018	1.70	-.236	-.037	-.0124	.0410	-.10
	-.05	.024	1.67	-.231	-.021	-.0064	.0151	-.05
	0.00	.020	1.67	-.231	-.013	.0034	.0030	0.00
	0.00	.018	1.64	-.220	-.010	.0024	.0024	0.00
	.05	.023	1.66	-.228	.006	.0100	-.0134	.05
	.10	.019	1.68	-.224	.029	.0167	-.0406	.10
	.20	.023	1.78	-.225	.104	.0272	-.1098	.20
	.30	.009	1.93	-.207	.189	.0342	-.1980	.30
	.40	-.023	2.10	-.217	.268	.0460	-.2922	.40
90	-.40	.003	2.10	-.186	-.280	-.0510	.3062	-.40
	-.30	.012	1.93	-.211	-.209	-.0359	.1935	-.30
	-.20	.015	1.77	-.242	-.143	-.0243	.1012	-.20
	-.10	.020	1.68	-.250	-.071	-.0128	.0398	-.10
	-.05	.021	1.65	-.249	-.033	-.0061	.0145	-.05
	0.00	.014	1.64	-.249	.003	.0016	.0019	0.00
	0.00	.012	1.62	-.244	-.006	.0020	.0043	0.00
	.05	.021	1.64	-.247	.024	.0097	-.0116	.05
	.10	.020	1.66	-.241	.054	.0186	-.0385	.10
	.20	.018	1.78	-.234	.130	.0307	-.1024	.20
	.30	.017	1.92	-.214	.220	.0394	-.1896	.30
	.40	.009	2.11	-.197	.315	.0551	-.3005	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC2B4WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	.000	.15	.042	-.053	.1463	-.0133	-.40
	-.30	.001	.06	.002	-.030	.1084	-.0062	-.30
	-.20	.001	.01	-.006	-.017	.0709	-.0028	-.20
	-.10	.002	.00	-.009	-.010	.0313	-.0010	-.10
	-.05	.005	.01	-.009	-.006	.0125	.0005	-.05
	0.00	.004	.00	-.009	-.009	-.0006	-.0006	0.00
	0.00	.004	.01	-.009	-.010	-.0003	-.0004	0.00
	.05	.004	-.00	-.008	-.003	-.0145	.0002	.05
	.10	.003	.00	-.008	-.002	-.0341	-.0009	.10
	.20	.001	.03	-.004	-.008	-.0728	-.0019	.20
	.30	-.000	.08	.006	-.024	-.1084	-.0048	.30
	.40	-.001	.22	.044	-.046	-.1471	-.0096	.40

5	-.40	-.005	.48	.048	-.053	.1388	-.0118	-.40
	-.30	.002	.35	.019	-.036	.1016	-.0054	-.30
	-.20	.007	.30	-.004	-.025	.0643	-.0015	-.20
	-.10	.007	.28	-.017	-.015	.0346	.0011	-.10
	-.05	.007	.28	-.010	-.008	.0176	.0010	-.05
	0.00	.007	.27	-.010	-.011	.0004	-.0015	0.00
	0.00	.008	.26	-.010	-.011	-.0001	-.0012	0.00
	.05	.009	.29	-.007	-.001	-.0172	-.0015	.05
	.10	.009	.29	-.013	.000	-.0364	-.0020	.10
	.20	.009	.30	.005	-.001	-.0656	-.0032	.20
	.30	.004	.36	.023	-.012	-.1027	-.0051	.30
	.40	-.007	.51	.051	-.030	-.1400	-.0094	.40

10	-.40	-.035	.81	.063	-.065	.1270	-.0094	-.40
	-.30	-.003	.66	.022	-.041	.0908	-.0047	-.30
	-.20	.006	.59	.005	-.022	.0598	-.0017	-.20
	-.10	.006	.59	-.011	-.010	.0269	-.0001	-.10
	-.05	.005	.59	-.005	-.004	.0113	.0005	-.05
	0.00	.005	.58	-.003	-.005	.0018	-.0010	0.00
	0.00	.005	.59	-.004	-.006	.0010	-.0012	0.00
	.05	.004	.59	-.004	-.003	-.0097	-.0005	.05
	.10	.005	.58	-.011	-.002	-.0250	-.0010	.10
	.20	.006	.61	.007	-.003	-.0556	-.0022	.20
	.30	.003	.69	.024	-.010	-.0890	-.0064	.30
	.40	-.032	.84	.068	-.027	-.1242	-.0124	.40

15	-.40	-.033	1.11	.036	-.065	.1137	-.0046	-.40
	-.30	-.001	.95	.012	-.039	.0791	-.0021	-.30
	-.20	.005	.88	.004	-.018	.0470	.0001	-.20
	-.10	.008	.87	.018	-.009	.0226	.0019	-.10
	-.05	.011	.87	.014	-.007	.0112	.0019	-.05
	0.00	.012	.85	.023	-.003	.0008	-.0001	0.00
	0.00	.011	.86	.022	-.003	.0000	-.0009	0.00
	.05	.007	.87	.017	-.010	-.0095	-.0011	.05
	.10	.007	.88	.021	-.009	-.0205	-.0020	.10
	.20	.004	.91	.008	-.010	-.0455	-.0036	.20
	.30	-.001	.99	.015	-.011	-.0751	-.0068	.30
	.40	-.029	1.17	.039	-.018	-.1070	-.0135	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.062	1.40	.037	-.110	.0896	-.0150	-.40
	-.30	-.001	1.22	.018	-.058	.0566	-.0059	-.30
	-.20	.006	1.17	.030	-.017	.0341	.0030	-.20
	-.10	.004	1.13	.033	.000	.0183	.0057	-.10
	-.05	.003	1.13	.032	.004	.0103	.0049	-.05
	0.00	.005	1.12	.036	.001	.0014	-.0003	0.00
	0.00	.005	1.12	.036	.001	.0019	-.0009	0.00
	.05	.003	1.13	.032	-.007	-.0061	-.0032	.05
	.10	.004	1.14	.031	-.007	-.0151	-.0060	.10
	.20	.005	1.19	.029	-.004	-.0355	-.0055	.20
	.30	-.003	1.26	.023	.001	-.0561	-.0021	.30
	.40	-.065	1.45	.040	-.002	-.0858	-.0039	.40
25	-.40	-.046	1.51	.086	-.135	.0564	-.0149	-.40
	-.30	-.004	1.36	.045	-.070	.0259	-.0115	-.30
	-.20	.011	1.30	.006	-.045	.0010	.0045	-.20
	-.10	.008	1.33	.027	-.019	-.0017	.0036	-.10
	-.05	.007	1.33	.031	-.011	-.0009	.0015	-.05
	0.00	.010	1.31	.030	.001	-.0034	-.0025	0.00
	0.00	.010	1.32	.026	.001	.0014	-.0008	0.00
	.05	.006	1.34	.034	.006	-.0000	-.0016	.05
	.10	.006	1.34	.035	.016	-.0046	-.0027	.10
	.20	.008	1.37	.023	.012	-.0100	-.0021	.20
	.30	-.007	1.41	.026	.034	-.0218	.0035	.30
	.40	-.048	1.50	.098	.046	-.0477	-.0006	.40
30	-.40	-.090	1.76	.112	-.173	.0423	-.0016	-.40
	-.30	-.007	1.55	.073	-.115	.0043	-.0047	-.30
	-.20	.009	1.41	.043	-.081	-.0147	-.0066	-.20
	-.10	.025	1.38	.020	-.049	-.0335	-.0064	-.10
	-.05	.029	1.38	.034	-.033	-.0234	-.0029	-.05
	0.00	.022	1.46	.050	.007	-.0082	-.0031	0.00
	0.00	.022	1.43	.053	.011	-.0120	-.0034	0.00
	.05	.026	1.37	.032	.037	.0261	.0027	.05
	.10	.024	1.35	.021	.046	.0339	.0067	.10
	.20	.007	1.41	.040	.055	.0207	.0063	.20
	.30	-.009	1.57	.081	.052	-.0040	-.0023	.30
	.40	-.090	1.81	.127	.046	-.0355	-.0154	.40
35	-.40	-.027	1.81	.083	-.043	.0330	-.0002	-.40
	-.30	.010	1.57	.078	-.049	.0003	-.0224	-.30
	-.20	.030	1.46	.029	-.061	-.0007	-.0316	-.20
	-.10	.004	1.53	.057	-.082	-.0336	-.0247	-.10
	-.05	.001	1.48	.039	-.063	-.0358	-.0144	-.05
	0.00	.019	1.40	.038	.007	-.0066	-.0017	0.00
	0.00	.015	1.42	.038	.000	-.0093	-.0001	0.00
	.05	-.001	1.47	.032	.054	.0310	.0194	.05
	.10	.004	1.48	.043	.072	.0235	.0217	.10
	.20	.028	1.50	.029	.031	-.0006	.0192	.20
	.30	.014	1.60	.034	.035	-.0143	.0035	.30
	.40	-.017	1.83	.056	-.014	-.0207	-.0154	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.045	1.85	.054	-.050	.0168	.0239	-.40
	-.30	-.001	1.65	.047	-.034	.0092	-.0100	-.30
	-.20	.019	1.54	.025	-.035	.0040	-.0291	-.20
	-.10	.027	1.45	.044	-.066	.0036	-.0522	-.10
	-.05	.024	1.43	.032	-.067	-.0027	-.0508	-.05
	0.00	.021	1.43	.020	.008	-.0095	.0094	0.00
	0.00	.022	1.42	.019	.019	-.0073	.0138	0.00
	.05	.025	1.42	.018	.067	.0046	.0543	.05
	.10	.028	1.42	.032	.065	-.0022	.0536	.10
	.20	.017	1.53	.025	.010	-.0068	.0226	.20
	.30	-.004	1.61	.041	-.015	-.0162	.0104	.30
	.40	-.056	1.82	.044	-.081	-.0229	-.0267	.40
45	-.40	-.032	1.89	.077	-.077	.0260	.0338	-.40
	-.30	.012	1.69	.030	-.029	.0261	.0082	-.30
	-.20	.014	1.52	.030	-.051	.0169	-.0275	-.20
	-.10	.023	1.47	.044	-.057	.0085	-.0434	-.10
	-.05	.025	1.45	.025	-.077	.0011	-.0557	-.05
	0.00	.019	1.48	.011	.038	-.0001	.0303	0.00
	0.00	.018	1.44	.017	.028	-.0021	.0190	0.00
	.05	.023	1.41	.023	.058	.0016	.0549	.05
	.10	.021	1.48	.043	.040	-.0038	.0410	.10
	.20	.011	1.55	.030	.006	-.0106	.0077	.20
	.30	.014	1.63	.032	-.014	-.0245	-.0103	.30
	.40	-.028	1.81	-.003	-.057	-.0338	-.0504	.40
50	-.40	-.056	1.87	.035	-.056	.0342	.0611	-.40
	-.30	.010	1.64	.012	-.045	.0278	.0176	-.30
	-.20	.021	1.48	-.004	.013	.0184	.0319	-.20
	-.10	.029	1.47	.036	-.002	.0111	-.0121	-.10
	-.05	.023	1.47	.029	-.024	.0043	-.0333	-.05
	0.00	.020	1.47	-.010	.042	.0004	.0309	0.00
	0.00	.019	1.46	-.009	.034	.0004	.0295	0.00
	.05	.025	1.46	.028	.024	.0005	.0323	.05
	.10	.031	1.48	.033	-.011	-.0061	.0020	.10
	.20	.021	1.49	-.018	-.039	-.0143	-.0433	.20
	.30	.006	1.63	-.004	-.009	-.0229	-.0292	.30
	.40	-.066	1.85	-.037	-.053	-.0315	-.0596	.40
55	-.40	-.052	2.00	-.057	.019	.0315	.0996	-.40
	-.30	.002	1.74	-.058	-.025	.0232	.0319	-.30
	-.20	.012	1.54	-.033	.057	.0156	.0783	-.20
	-.10	.024	1.50	.008	.041	.0079	.0315	-.10
	-.05	.013	1.52	.029	-.008	.0046	-.0173	-.05
	0.00	.012	1.52	-.019	.006	.0006	.0101	0.00
	0.00	.011	1.53	-.019	.007	.0009	.0165	0.00
	.05	.010	1.52	.031	-.014	-.0023	.0034	.05
	.10	.020	1.50	.014	-.067	-.0049	-.0475	.10
	.20	.010	1.54	-.040	-.109	-.0131	-.0993	.20
	.30	.003	1.74	-.032	-.076	-.0186	-.0788	.30
	.40	-.048	1.89	-.152	-.068	-.0241	-.0771	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_R	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.034	1.92	-.196	.011	.0253	.0902	-.40
	-.30	.016	1.69	-.169	.039	.0195	.0728	-.30
	-.20	.019	1.59	-.088	.037	.0137	.0588	-.20
	-.10	.016	1.58	-.046	.031	.0068	.0323	-.10
	-.05	.016	1.58	-.038	.023	.0044	.0167	-.05
	0.00	.025	1.60	-.055	.001	.0006	.0009	0.00
	0.00	.023	1.59	-.050	-.000	.0035	-.0044	0.00
	.05	.017	1.58	-.040	-.014	-.0006	-.0196	.05
	.10	.018	1.57	-.053	-.033	-.0033	-.0385	.10
	.20	.022	1.59	-.090	-.065	-.0097	-.0768	.20
	.30	.006	1.71	-.163	-.094	-.0146	-.0931	.30
	.40	-.044	1.89	-.229	-.106	-.0214	-.0817	.40
65	-.40	-.019	1.92	-.259	.009	.0199	.0838	-.40
	-.30	.020	1.73	-.228	.035	.0131	.0664	-.30
	-.20	.017	1.64	-.151	.034	.0083	.0541	-.20
	-.10	.002	1.61	-.117	.022	.0044	.0313	-.10
	-.05	.001	1.63	-.098	.007	.0030	.0150	-.05
	0.00	.008	1.61	-.099	-.004	.0038	-.0049	0.00
	0.00	.005	1.62	-.092	-.003	.0016	-.0040	0.00
	.05	-.005	1.62	-.099	-.019	-.0004	-.0198	.05
	.10	-.003	1.62	-.119	-.029	-.0020	-.0346	.10
	.20	.013	1.64	-.141	-.062	-.0060	-.0545	.20
	.30	.020	1.75	-.215	-.087	-.0108	-.0730	.30
	.40	-.015	1.94	-.261	-.106	-.0119	-.1066	.40
70	-.40	-.048	1.98	-.281	-.011	.0108	.0974	-.40
	-.30	.005	1.76	-.243	.016	.0069	.0674	-.30
	-.20	.022	1.67	-.217	.050	.0049	.0467	-.20
	-.10	.024	1.62	-.168	.036	.0011	.0269	-.10
	-.05	.025	1.63	-.155	.023	.0004	.0107	-.05
	0.00	.036	1.65	-.149	-.001	.0021	-.0008	0.00
	0.00	.027	1.66	-.158	.000	-.0000	-.0031	0.00
	.05	.028	1.64	-.155	-.011	.0019	-.0177	.05
	.10	.026	1.63	-.168	-.033	.0006	-.0303	.10
	.20	.019	1.67	-.205	-.067	-.0013	-.0511	.20
	.30	.002	1.77	-.248	-.074	-.0048	-.0779	.30
	.40	-.057	1.98	-.283	-.102	-.0048	-.1138	.40
75	-.40	-.047	2.08	-.297	-.018	.0019	.1038	-.40
	-.30	-.000	1.83	-.261	.002	.0011	.0730	-.30
	-.20	.030	1.69	-.252	.022	.0006	.0423	-.20
	-.10	.028	1.62	-.229	.035	-.0017	.0213	-.10
	-.05	.015	1.61	-.212	.018	-.0003	.0075	-.05
	0.00	.010	1.60	-.217	-.004	-.0012	-.0036	0.00
	0.00	.008	1.64	-.210	-.002	.0023	-.0049	0.00
	.05	.011	1.61	-.214	-.018	.0033	-.0162	.05
	.10	.023	1.63	-.227	-.045	.0043	-.0260	.10
	.20	.025	1.70	-.244	-.049	.0030	-.0500	.20
	.30	.003	1.84	-.258	-.055	.0016	-.0855	.30
	.40	-.044	2.07	-.292	-.095	.0029	-.1211	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.033	2.01	-.344	-.019	-.0076	.1079	-.40
	-.30	.011	1.81	-.295	-.005	-.0039	.0770	-.30
	-.20	.019	1.72	-.260	.013	-.0062	.0442	-.20
	-.10	.012	1.67	-.252	.030	-.0047	.0176	-.10
	-.05	.006	1.65	-.239	.022	-.0032	.0053	-.05
	0.00	.016	1.63	-.242	-.008	.0019	-.0046	0.00
	0.00	.012	1.62	-.235	-.005	-.0014	-.0023	0.00
	.05	.009	1.64	-.236	-.024	.0069	-.0101	.05
	.10	.012	1.65	-.239	-.037	.0085	-.0251	.10
	.20	.017	1.73	-.252	-.037	.0093	-.0523	.20
	.30	.011	1.81	-.291	-.045	.0077	-.0844	.30
	.40	-.036	1.98	-.346	-.073	.0107	-.1220	.40
85	-.40	-.017	2.04	-.293	-.028	-.0129	.1092	-.40
	-.30	.009	1.85	-.277	-.011	-.0103	.0779	-.30
	-.20	.016	1.72	-.272	.007	-.0105	.0456	-.20
	-.10	.012	1.64	-.274	.020	-.0093	.0198	-.10
	-.05	.018	1.59	-.262	.019	-.0051	.0079	-.05
	0.00	.027	1.57	-.253	-.005	.0049	-.0005	0.00
	0.00	.024	1.61	-.265	-.009	-.0014	-.0003	0.00
	.05	.016	1.60	-.262	-.017	.0063	-.0095	.05
	.10	.011	1.59	-.259	-.030	.0102	-.0232	.10
	.20	.016	1.73	-.274	-.032	.0130	-.0516	.20
	.30	.008	1.86	-.279	-.046	.0127	-.0857	.30
	.40	-.022	2.01	-.292	-.090	.0184	-.1258	.40
90	-.40	-.007	2.00	.290	-.043	-.0209	.1057	-.40
	-.30	-.004	1.84	-.292	-.029	-.0158	.0743	-.30
	-.20	.005	1.71	-.292	-.010	-.0149	.0443	-.20
	-.10	.013	1.59	-.286	-.001	-.0064	.0178	-.10
	-.05	.010	1.57	-.282	-.003	-.0019	.0088	-.05
	0.00	.005	1.54	-.269	-.005	.0018	.0034	0.00
	0.00	.005	1.55	-.276	-.008	-.0009	.0028	0.00
	.05	.004	1.56	-.279	-.007	.0052	-.0093	.05
	.10	.009	1.58	-.283	-.012	.0095	-.0205	.10
	.20	.003	1.70	-.285	-.021	.0170	-.0474	.20
	.30	-.002	1.83	-.291	-.025	.0160	-.0807	.30
	.40	.001	1.98	-.291	-.042	.0227	-.1187	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC2B4WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.007	.14	.019	-.039	.1501	-.0342	-.40
	-.30	-.002	.05	.001	-.012	.1113	-.0197	-.30
	-.20	.000	.02	-.009	.002	.0747	-.0093	-.20
	-.10	.021	.01	-.005	.010	.0331	-.0016	-.10
	-.05	.026	.01	-.005	.014	.0139	.0008	-.05
	0.00	.026	-.00	-.007	.009	.0002	.0017	0.00
	0.00	.026	-.00	-.007	.012	.0001	.0017	0.00
	.05	.025	.01	-.003	.005	-.0146	.0018	.05
	.10	.021	.02	-.003	.003	-.0340	.0025	.10
	.20	.006	.03	-.006	-.007	-.0719	.0024	.20
	.30	.002	.06	.004	-.028	-.1061	.0036	.30
	.40	-.000	.18	.021	-.061	-.1449	.0024	.40

5	-.40	-.037	.49	.021	-.084	.1367	-.0083	-.40
	-.30	-.010	.37	.006	-.048	.0973	-.0021	-.30
	-.20	.003	.33	-.013	-.021	.0634	.0024	-.20
	-.10	.003	.31	-.016	-.002	.0341	.0033	-.10
	-.05	.002	.30	-.015	.006	.0178	.0027	-.05
	0.00	.002	.30	-.011	.013	.0005	.0001	0.00
	0.00	.002	.29	-.010	.012	.0010	.0003	0.00
	.05	.003	.32	-.013	.021	-.0164	-.0018	.05
	.10	.003	.33	-.014	.024	-.0343	-.0041	.10
	.20	.003	.33	-.008	.021	-.0623	-.0095	.20
	.30	-.000	.38	.009	.007	-.0969	-.0169	.30
	.40	-.033	.51	.025	-.019	-.1340	-.0274	.40

10	-.40	-.036	.83	-.004	-.139	.1194	.0199	-.40
	-.30	-.003	.67	-.009	-.083	.0851	.0181	-.30
	-.20	.001	.60	-.001	-.040	.0566	.0135	-.20
	-.10	.000	.58	.004	-.009	.0265	.0078	-.10
	-.05	-.001	.59	.015	.007	.0110	.0042	-.05
	0.00	.000	.58	.004	.009	.0012	.0004	0.00
	0.00	.000	.57	.004	.012	.0002	.0008	0.00
	.05	-.001	.59	.019	.017	-.0084	-.0039	.05
	.10	-.000	.59	.008	.026	-.0220	-.0085	.10
	.20	.001	.61	.001	.041	-.0515	-.0213	.20
	.30	-.002	.70	-.007	.046	-.0808	-.0382	.30
	.40	-.022	.87	-.002	.043	-.1133	-.0575	.40

15	-.40	-.017	1.08	.045	-.200	.0982	.0508	-.40
	-.30	-.019	.94	.025	-.122	.0700	.0411	-.30
	-.20	-.001	.88	.020	-.061	.0428	.0306	-.20
	-.10	-.004	.85	.017	-.014	.0204	.0169	-.10
	-.05	-.007	.86	.013	.002	.0104	.0094	-.05
	0.00	.000	.85	.013	.009	.0006	.0018	0.00
	0.00	.000	.86	.014	.009	.0013	.0011	0.00
	.05	-.006	.85	.015	.025	-.0085	-.0088	.05
	.10	-.003	.87	.020	.039	-.0181	-.0185	.10
	.20	.003	.90	.025	.058	-.0391	-.0380	.20
	.30	-.020	.96	.029	.071	-.0655	-.0595	.30
	.40	-.022	1.17	.053	.075	-.0936	-.0853	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
20	-.40	-.012	1.34	.037	-.308	.0746	.0828	-.40
	-.30	.002	1.19	.022	-.189	.0441	.0688	-.30
	-.20	-.001	1.13	.029	-.091	.0284	.0493	-.20
	-.10	.001	1.12	.034	-.024	.0158	.0278	-.10
	-.05	.000	1.11	.043	.001	.0093	.0156	-.05
	0.00	.004	1.08	.032	.010	.0047	.0015	0.00
	0.00	.003	1.10	.031	.013	.0016	.0009	0.00
	.05	-.003	1.12	.044	.027	-.0047	-.0138	.05
	.10	-.002	1.14	.035	.045	-.0128	-.0281	.10
	.20	.000	1.16	.032	.086	-.0259	-.0554	.20
	.30	.002	1.23	.030	.136	-.0431	-.0865	.30
	.40	.002	1.42	.044	.165	-.0698	-.1199	.40
25	-.40	-.030	1.50	.097	-.384	.0351	.1106	-.40
	-.30	-.005	1.36	.057	-.258	.0117	.0875	-.30
	-.20	.008	1.30	.024	-.150	-.0055	.0659	-.20
	-.10	.005	1.30	.038	-.052	-.0054	.0286	-.10
	-.05	.002	1.30	.037	-.018	-.0043	.0123	-.05
	0.00	.008	1.29	.042	.017	-.0032	-.0025	0.00
	0.00	.008	1.30	.044	.016	-.0021	-.0016	0.00
	.05	.001	1.31	.042	.053	.0001	-.0156	.05
	.10	.004	1.31	.046	.086	-.0013	-.0311	.10
	.20	.010	1.35	.031	.146	.0006	-.0695	.20
	.30	-.006	1.39	.060	.201	-.0052	-.0991	.30
	.40	-.016	1.52	.120	.257	-.0231	-.1452	.40
30	-.40	-.048	1.76	.122	-.426	.0291	.1395	-.40
	-.30	-.012	1.56	.092	-.297	-.0042	.0965	-.30
	-.20	.006	1.46	.065	-.202	-.0169	.0719	-.20
	-.10	.003	1.43	.031	-.117	-.0351	.0381	-.10
	-.05	.001	1.44	.043	-.067	-.0235	.0162	-.05
	0.00	.003	1.50	.066	.012	-.0078	-.0043	0.00
	0.00	.003	1.49	.069	.010	-.0073	-.0024	0.00
	.05	.003	1.42	.035	.077	.0244	-.0177	.05
	.10	.003	1.38	.029	.113	.0401	-.0324	.10
	.20	.005	1.41	.047	.172	.0318	-.0599	.20
	.30	-.013	1.59	.102	.222	.0061	-.1038	.30
	.40	-.052	1.80	.148	.299	-.0202	-.1648	.40
35	-.40	-.048	1.84	.111	-.309	.0107	.1571	-.40
	-.30	.003	1.60	.095	-.213	-.0147	.0778	-.30
	-.20	.023	1.43	.031	-.159	-.0030	.0299	-.20
	-.10	.020	1.52	.055	-.176	-.0409	.0402	-.10
	-.05	.019	1.51	.035	-.144	-.0389	.0353	-.05
	0.00	.019	1.41	.044	.016	-.0092	-.0080	0.00
	0.00	.019	1.45	.045	.018	-.0057	-.0065	0.00
	.05	.017	1.46	.030	.137	.0359	-.0272	.05
	.10	.021	1.46	.043	.168	.0317	-.0390	.10
	.20	.024	1.43	.031	.137	.0013	-.0444	.20
	.30	.010	1.50	.060	.235	-.0035	-.1257	.30
	.40	-.039	1.78	.110	.226	-.0001	-.1787	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WVR3

BETA= 0

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
40	-.40	-.056	1.84	.091	-.186	.0137	.0839	-.40
	-.30	.007	1.63	.060	-.131	.0057	.0441	-.30
	-.20	.012	1.51	.028	-.073	.0048	-.0084	-.20
	-.10	.018	1.45	.043	-.093	.0012	-.0325	-.10
	-.05	.021	1.41	.031	-.095	-.0055	-.0281	-.05
	0.00	.015	1.46	.039	.032	-.0079	.0017	0.00
	0.00	.015	1.45	.037	.031	-.0108	-.0025	0.00
	.05	.020	1.39	.025	.103	.0070	.0317	.05
	.10	.020	1.40	.036	.092	-.0008	.0372	.10
	.20	.011	1.47	.030	.048	-.0090	.0001	.20
	.30	.005	1.59	.055	.116	-.0111	-.0742	.30
	.40	-.062	1.78	.059	.114	-.0225	-.1478	.40
45	-.40	-.068	1.89	.092	-.161	.0246	.0771	-.40
	-.30	.003	1.66	.041	-.058	.0270	.0229	-.30
	-.20	.019	1.50	.035	-.060	.0188	-.0222	-.20
	-.10	.029	1.44	.049	-.047	.0097	-.0408	-.10
	-.05	.032	1.43	.044	-.068	.0023	-.0533	-.05
	0.00	.031	1.48	.013	.039	-.0043	.0154	0.00
	0.00	.032	1.48	.010	.034	-.0067	.0135	0.00
	.05	.032	1.40	.037	.064	.0019	.0576	.05
	.10	.030	1.46	.054	.041	-.0048	.0444	.10
	.20	.017	1.53	.039	.003	-.0102	.0075	.20
	.30	.001	1.62	.032	.000	-.0243	-.0225	.30
	.40	-.069	1.78	.011	.038	-.0307	-.1139	.40
50	-.40	-.063	1.93	.073	-.162	.0310	.1197	-.40
	-.30	.002	1.66	.034	-.096	.0257	.0520	-.30
	-.20	.017	1.50	-.003	-.031	.0151	.0516	-.20
	-.10	.025	1.46	.027	-.019	.0095	-.0023	-.10
	-.05	.023	1.46	.025	-.029	.0041	-.0315	-.05
	0.00	.020	1.48	-.002	.033	.0003	.0265	0.00
	0.00	.019	1.47	-.006	.037	.0005	.0241	0.00
	.05	.019	1.45	.027	.028	-.0000	.0290	.05
	.10	.020	1.47	.031	-.002	-.0042	-.0055	.10
	.20	.015	1.50	-.014	-.018	-.0109	-.0636	.20
	.30	.004	1.66	.017	.026	-.0207	-.0521	.30
	.40	-.056	1.88	.006	.023	-.0257	-.1098	.40
55	-.40	-.047	1.90	-.028	-.103	.0252	.1837	-.40
	-.30	-.003	1.64	-.080	-.100	.0213	.0944	-.30
	-.20	.014	1.56	-.031	.009	.0109	.1106	-.20
	-.10	.014	1.55	.007	.020	.0062	.0514	-.10
	-.05	.014	1.57	.028	-.006	.0036	-.0099	-.05
	0.00	.021	1.55	-.026	-.007	.0003	.0075	0.00
	0.00	.021	1.53	-.028	.002	.0005	.0113	0.00
	.05	.013	1.58	.036	-.007	-.0013	-.0025	.05
	.10	.015	1.56	.015	-.044	-.0034	-.0635	.10
	.20	.015	1.55	-.040	-.065	-.0074	-.1252	.20
	.30	-.004	1.70	-.023	-.036	-.0155	-.1561	.30
	.40	-.050	1.84	-.123	.054	-.0174	-.1669	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WVA3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.048	1.95	-.106	-.167	.0186	.2140	-.40
	-.30	-.003	1.71	-.117	-.080	.0140	.1540	-.30
	-.20	.014	1.61	-.079	-.017	.0097	.1043	-.20
	-.10	.016	1.59	-.052	.004	.0037	.0537	-.10
	-.05	.015	1.59	-.045	.009	.0018	.0258	-.05
	0.00	.021	1.58	-.048	-.006	.0027	.0022	0.00
	0.00	.020	1.59	-.053	-.002	.0005	-.0024	0.00
	.05	.019	1.59	-.049	-.007	-.0004	-.0258	.05
	.10	.017	1.59	-.055	-.014	-.0028	-.0551	.10
	.20	.014	1.60	-.073	-.018	-.0057	-.1148	.20
	.30	-.005	1.68	-.111	.007	-.0090	-.1748	.30
	.40	-.050	1.90	-.146	.075	-.0114	-.2022	.40
65	-.40	-.033	1.98	-.220	-.216	.0056	.2198	-.40
	-.30	.007	1.72	-.181	-.115	.0044	.1714	-.30
	-.20	.016	1.65	-.132	-.047	.0029	.1145	-.20
	-.10	.006	1.62	-.102	-.011	.0007	.0622	-.10
	-.05	.003	1.63	-.093	-.006	.0010	.0331	-.05
	0.00	.012	1.64	-.092	.004	.0002	-.0033	0.00
	0.00	.012	1.64	-.102	-.004	-.0030	.0007	0.00
	.05	.006	1.61	-.096	.004	.0014	-.0291	.05
	.10	.007	1.62	-.109	.012	.0003	-.0603	.10
	.20	.017	1.64	-.129	.021	-.0012	-.1158	.20
	.30	.002	1.71	-.171	.045	-.0028	-.1787	.30
	.40	-.038	1.97	-.216	.071	-.0036	-.2383	.40
70	-.40	-.035	1.99	-.235	-.251	-.0057	.2400	-.40
	-.30	.009	1.78	-.206	-.150	-.0046	.1750	-.30
	-.20	.019	1.65	-.196	-.061	-.0024	.1202	-.20
	-.10	.020	1.62	-.170	-.008	-.0026	.0584	-.10
	-.05	.020	1.63	-.158	.001	-.0006	.0269	-.05
	0.00	.016	1.64	-.159	-.006	.0023	.0020	0.00
	0.00	.004	1.63	-.154	-.006	-.0001	.0021	0.00
	.05	.008	1.63	-.155	-.004	.0024	-.0256	.05
	.10	.007	1.63	-.165	.005	.0037	-.0595	.10
	.20	.011	1.66	-.188	.033	.0037	-.1251	.20
	.30	.008	1.76	-.205	.079	.0063	-.1873	.30
	.40	-.034	1.99	-.230	.117	.0102	-.2584	.40
75	-.40	-.016	2.05	-.202	-.280	-.0178	.2551	-.40
	-.30	.009	1.84	-.208	-.171	-.0161	.1822	-.30
	-.20	.021	1.71	-.219	-.078	-.0090	.1098	-.20
	-.10	.019	1.63	-.227	-.004	-.0057	.0531	-.10
	-.05	.019	1.62	-.221	-.002	-.00	.0252	-.05
	0.00	.013	1.62	-.217	.000	-.0017	.0002	0.00
	0.00	.008	1.63	-.217	-.006	-.0016	.0010	0.00
	.05	.013	1.63	-.220	-.003	.0034	-.0253	.05
	.10	.016	1.63	-.228	.004	.0061	-.0585	.10
	.20	.020	1.69	-.213	.052	.0101	-.1225	.20
	.30	.010	1.84	-.204	.104	.0165	-.1984	.30
	.40	-.025	2.05	-.200	.144	.0236	-.2759	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SC2B4WVR3

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
80	-.40	-.046	2.10	-.286	-.307	-.0318	.2737	-.40
	-.30	.010	1.87	-.258	-.189	-.0238	.1919	-.30
	-.20	.022	1.73	-.251	-.092	-.0159	.1155	-.20
	-.10	.022	1.65	-.251	-.015	-.0102	.0493	-.10
	-.05	.022	1.65	-.250	-.001	-.0063	.0217	-.05
	0.00	.020	1.65	-.248	.003	.0013	-.0046	0.00
	0.00	.018	1.66	-.252	-.003	-.0002	-.0017	0.00
	.05	.021	1.65	-.246	.009	.0065	-.0264	.05
	.10	.021	1.66	-.246	.015	.0097	-.0568	.10
	.20	.021	1.74	-.246	.072	.0183	-.1287	.20
	.30	.008	1.89	-.247	.119	.0257	-.2077	.30
	.40	-.050	2.04	-.280	.151	.0373	-.2886	.40
85	-.40	.003	2.04	-.268	-.335	-.0438	.2851	-.40
	-.30	.009	1.88	-.262	-.208	-.0311	.1962	-.30
	-.20	.015	1.73	-.267	-.098	-.0239	.1171	-.20
	-.10	.019	1.63	-.270	-.023	-.0146	.0486	-.10
	-.05	.020	1.63	-.267	.000	-.0071	.0189	-.05
	0.00	.021	1.60	-.254	-.002	-.0011	-.0038	0.00
	0.00	.022	1.59	-.256	-.006	-.0004	-.0024	0.00
	.05	.018	1.60	-.261	.005	.0080	-.0277	.05
	.10	.018	1.63	-.264	.016	.0143	-.0553	.10
	.20	.015	1.72	-.259	.076	.0231	-.1298	.20
	.30	.008	1.82	-.254	.140	.0286	-.2147	.30
	.40	-.000	2.04	-.264	.196	.0456	-.3039	.40
90	-.40	.000	2.04	-.263	-.352	-.0544	.2914	-.40
	-.30	.004	1.86	-.265	-.217	-.0367	.1973	-.30
	-.20	.003	1.74	-.277	-.107	-.0264	.1148	-.20
	-.10	.006	1.61	-.280	-.039	-.0150	.0462	-.10
	-.05	.007	1.60	-.280	-.010	-.0083	.0207	-.05
	0.00	-.002	1.60	-.267	.009	-.0012	-.0015	0.00
	0.00	.003	1.59	-.276	.007	-.0005	-.0009	0.00
	.05	.009	1.59	-.274	.018	.0063	-.0239	.05
	.10	.009	1.61	-.278	.043	.0143	-.0559	.10
	.20	.004	1.73	-.274	.089	.0287	-.1257	.20
	.30	.008	1.87	-.269	.167	.0400	-.2092	.30
	.40	-.001	2.02	-.266	.227	.0579	-.3160	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2+2"Vee STRAKES

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$

0	-.40	-.013	.07	.036	-.017	.0015	-.0228	-.40
	-.30	-.009	.01	.010	-.001	.0016	-.0121	-.30
	-.20	-.011	-.02	-.006	.009	.0016	-.0055	-.20
	-.10	-.007	-.02	-.002	.017	.0016	-.0008	-.10
	-.05	-.008	-.02	-.001	.021	.0015	.0003	-.05
	0.00	-.013	-.03	-.004	.020	.0015	-.0000	0.00
	0.00	.002	-.03	-.004	.020	.0015	.0001	0.00
	.05	.011	-.02	-.001	.021	.0015	.0002	.05
	.10	.011	-.02	-.002	.019	.0015	-.0007	.10
	.20	-.005	-.03	.000	.010	.0015	-.0053	.20
	.30	-.004	-.00	.013	-.002	.0015	-.0128	.30
	.40	-.013	.07	.040	-.024	.0013	-.0244	.40

5	-.40	-.022	.08	.052	-.023	.0018	-.0198	-.40
	-.30	.004	.03	.011	-.005	.0017	-.0103	-.30
	-.20	.009	-.00	.016	.007	.0017	-.0041	-.20
	-.10	.009	.01	.010	.018	.0017	-.0003	-.10
	-.05	.008	.01	.020	.024	.0016	.0004	-.05
	0.00	.009	.01	.015	.022	.0016	-.0003	0.00
	0.00	.008	.01	.016	.021	.0016	-.0003	0.00
	.05	.008	.01	.020	.019	.0016	-.0008	.05
	.10	.009	.01	.011	.020	.0015	-.0010	.10
	.20	.008	-.00	.020	.013	.0016	-.0066	.20
	.30	.004	.03	.019	.005	.0016	-.0143	.30
	.40	-.024	.09	.057	-.012	.0002	-.0255	.40

10	-.40	-.022	.10	.065	-.011	.0003	-.0209	-.40
	-.30	.009	.04	.032	.001	.0009	-.0115	-.30
	-.20	.008	.02	.027	.010	.0018	-.0057	-.20
	-.10	.005	.03	.026	.017	.0016	-.0011	-.10
	-.05	.004	.03	.024	.021	.0015	-.0011	-.05
	0.00	.005	.02	.024	.020	.0015	-.0014	0.00
	0.00	.005	.02	.024	.020	.0015	-.0014	0.00
	.05	.004	.03	.024	.021	.0014	-.0007	.05
	.10	.005	.03	.026	.018	.0015	-.0008	.10
	.20	.007	.02	.028	.007	.0016	-.0051	.20
	.30	.009	.04	.032	-.008	.0003	-.0112	.30
	.40	-.023	.11	.072	-.033	.0001	-.0216	.40

15	-.40	-.021	.13	.083	.005	.0012	-.0178	-.40
	-.30	.007	.07	.045	.014	.0003	-.0108	-.30
	-.20	.003	.05	.039	.017	.0017	-.0042	-.20
	-.10	-.007	.05	.036	.022	.0016	-.0006	-.10
	-.05	-.010	.04	.036	.024	.0014	-.0009	-.05
	0.00	-.007	.03	.029	.021	.0015	-.0017	0.00
	0.00	-.007	.03	.030	.020	.0015	-.0014	0.00
	.05	-.008	.04	.038	.015	.0014	-.0013	.05
	.10	-.006	.05	.042	.012	.0014	-.0015	.10
	.20	.002	.06	.040	-.001	.0016	-.0055	.20
	.30	.004	.07	.049	-.029	.0002	-.0110	.30
	.40	-.026	.14	.093	-.058	.0010	-.0226	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2+2"Vee STRAKES

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
20	-.40	-.025	.19	.088	.015	.0012	.0033	-.40
	-.30	-.000	.14	.055	.027	.0002	.0024	-.30
	-.20	-.009	.09	.046	.030	.0018	.0002	-.20
	-.10	.001	.10	.048	.027	.0015	.0001	-.10
	-.05	-.002	.10	.049	.024	.0014	-.0004	-.05
	0.00	-.001	.09	.053	.020	.0013	-.0015	0.00
	0.00	-.000	.09	.053	.020	.0013	-.0015	0.00
	.05	-.002	.10	.051	.013	.0013	-.0021	.05
	.10	.000	.10	.050	.005	.0013	-.0052	.10
	.20	-.009	.09	.051	-.014	.0016	-.0098	.20
	.30	-.000	.14	.060	-.035	-.0002	-.0217	.30
	.40	-.026	.19	.098	-.058	.0009	-.0399	.40
25	-.40	-.030	.24	.111	.031	.0014	.0182	-.40
	-.30	-.008	.17	.068	.040	.0001	.0219	-.30
	-.20	.001	.15	.052	.046	.0017	.0191	-.20
	-.10	-.006	.14	.058	.038	.0014	.0145	-.10
	-.05	-.000	.13	.067	.033	.0012	-.0004	-.05
	0.00	.002	.12	.061	.025	.0011	-.0017	0.00
	0.00	.001	.12	.061	.024	.0011	-.0009	0.00
	.05	-.001	.13	.067	.008	.0012	-.0015	.05
	.10	-.005	.15	.057	-.005	.0012	-.0049	.10
	.20	-.000	.17	.057	-.025	-.0000	-.0196	.20
	.30	-.008	.18	.069	-.037	.0005	-.0345	.30
	.40	-.030	.26	.119	-.068	.0011	-.0547	.40
30	-.40	-.033	.28	.120	.057	.0016	.0288	-.40
	-.30	-.015	.21	.082	.063	.0003	.0382	-.30
	-.20	.013	.21	.060	.069	.0017	.0408	-.20
	-.10	-.000	.19	.072	.049	.0012	.0252	-.10
	-.05	-.011	.19	.076	.042	.0011	.0111	-.05
	0.00	-.010	.18	.062	.026	.0011	.0029	0.00
	0.00	-.010	.19	.066	.018	.0010	.0026	0.00
	.05	-.009	.20	.070	.008	.0010	-.0032	.05
	.10	-.001	.21	.055	-.008	.0012	-.0112	.10
	.20	.009	.22	.062	-.042	-.0002	-.0383	.20
	.30	-.017	.24	.080	-.052	.0006	-.0441	.30
	.40	-.036	.30	.116	-.084	-.0011	-.0578	.40
35	-.40	-.039	.34	.128	.113	-.0005	.0446	-.40
	-.30	-.010	.28	.098	.109	.0006	.0416	-.30
	-.20	-.007	.25	.077	.096	.0016	.0485	-.20
	-.10	-.003	.24	.080	.070	.0012	.0417	-.10
	-.05	-.011	.25	.083	.055	.0011	.0269	-.05
	0.00	-.008	.24	.081	.019	.0010	.0043	0.00
	0.00	-.010	.24	.081	.023	.0010	.0048	0.00
	.05	-.012	.26	.067	.019	.0011	.0019	.05
	.10	-.004	.27	.064	-.003	.0013	-.0122	.10
	.20	-.007	.28	.058	-.050	-.0001	-.0378	.20
	.30	-.009	.30	.061	-.065	.0007	-.0424	.30
	.40	-.042	.37	.082	-.112	-.0011	-.0572	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2+2"Vee STRAKES

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
40	-.40	-.042	.37	.092	.124	.0015	.0838	-.40
	-.30	-.019	.31	.112	.150	.0006	.0767	-.30
	-.20	-.004	.30	.097	.147	.0013	.0497	-.20
	-.10	-.005	.28	.091	.106	.0012	.0387	-.10
	-.05	-.014	.30	.089	.084	.0012	.0371	-.05
	0.00	-.013	.29	.085	.051	.0010	.0230	0.00
	0.00	-.014	.29	.086	.047	.0010	.0207	0.00
	.05	-.012	.32	.078	.041	.0012	.0180	.05
	.10	-.003	.35	.063	-.013	.0014	-.0118	.10
	.20	-.004	.38	.046	-.045	.0003	-.0255	.20
	.30	-.022	.39	.065	-.087	.0009	-.0438	.30
	.40	-.056	.38	.101	-.199	-.0009	-.1129	.40
45	-.40	-.049	.40	.123	.076	.0012	.0583	-.40
	-.30	-.003	.38	.101	.151	.0001	.1040	-.30
	-.20	-.002	.37	.123	.131	.0011	.0940	-.20
	-.10	-.007	.37	.112	.108	.0012	.0658	-.10
	-.05	.001	.38	.108	.110	.0011	.0473	-.05
	0.00	.008	.41	.091	.106	.0012	.0322	0.00
	0.00	.008	.40	.094	.098	.0011	.0305	0.00
	.05	.002	.42	.087	.057	.0012	.0163	.05
	.10	-.012	.41	.097	.032	.0012	.0033	.10
	.20	-.005	.45	.104	-.019	-.0004	-.0181	.20
	.30	-.009	.39	.096	-.148	.0007	-.0938	.30
	.40	-.058	.46	.133	-.162	-.0009	-.0980	.40
50	-.40	-.046	.49	.155	.038	.0013	.0471	-.40
	-.30	-.018	.41	.099	.140	.0001	.1031	-.30
	-.20	-.012	.40	.140	.119	.0013	.0877	-.20
	-.10	-.012	.45	.143	.124	.0010	.0776	-.10
	-.05	-.011	.43	.132	.115	.0009	.0702	-.05
	0.00	-.010	.42	.132	.078	.0009	.0449	0.00
	0.00	-.011	.43	.131	.076	.0009	.0454	0.00
	.05	-.012	.45	.140	.062	.0009	.0338	.05
	.10	-.017	.42	.142	.046	.0009	.0254	.10
	.20	-.016	.41	.119	-.031	-.0006	-.0262	.20
	.30	-.028	.40	.101	-.162	.0006	-.1095	.30
	.40	-.053	.52	.173	-.136	-.0010	-.0861	.40
55	-.40	-.049	.50	.139	.039	.0015	.0543	-.40
	-.30	-.013	.44	.115	.062	.0000	.0584	-.30
	-.20	-.011	.42	.128	.110	.0013	.0811	-.20
	-.10	-.008	.49	.168	.070	.0008	.0586	-.10
	-.05	-.022	.49	.156	.053	.0008	.0433	-.05
	0.00	-.020	.48	.155	.077	.0008	.0471	0.00
	0.00	-.021	.49	.146	.071	.0008	.0463	0.00
	.05	-.019	.49	.177	.055	.0004	.0337	.05
	.10	-.008	.48	.182	.032	.0005	.0194	.10
	.20	-.015	.43	.126	-.093	-.0006	-.0708	.20
	.30	-.024	.46	.150	-.124	.0002	-.0932	.30
	.40	-.062	.52	.158	-.121	-.0015	-.0843	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2+2"Vee STRAKES

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
60	-.40	-.045	.51	.082	.030	.0018	.0619	-.40
	-.30	-.027	.45	.130	.046	-.0000	.0454	-.30
	-.20	-.003	.46	.128	.085	.0012	.0675	-.20
	-.10	-.003	.47	.168	.054	.0007	.0439	-.10
	-.05	.003	.48	.166	.048	.0005	.0364	-.05
	0.00	.001	.47	.161	.054	.0006	.0336	0.00
	0.00	.001	.47	.161	.057	.0006	.0352	0.00
	.05	.002	.47	.164	.042	.0005	.0226	.05
	.10	-.005	.46	.162	.024	.0006	.0077	.10
	.20	-.009	.45	.135	-.074	-.0007	-.0697	.20
	.30	-.031	.50	.154	-.071	.0001	-.0640	.30
	.40	-.047	.53	.087	-.106	-.0009	-.0909	.40
65	-.40	-.039	.57	.009	.014	.0020	.0695	-.40
	-.30	-.009	.48	.108	.040	.0003	.0528	-.30
	-.20	-.009	.48	.118	.035	.0012	.0331	-.20
	-.10	-.011	.48	.145	.054	.0006	.0415	-.10
	-.05	-.009	.48	.165	.046	.0005	.0301	-.05
	0.00	.009	.47	.160	.036	.0004	.0207	0.00
	0.00	.007	.47	.158	.032	.0004	.0197	0.00
	.05	-.014	.48	.161	.023	.0004	.0094	.05
	.10	-.014	.48	.153	-.039	.0005	-.0458	.10
	.20	-.014	.47	.153	-.065	-.0008	-.0678	.20
	.30	-.013	.52	.112	-.061	.0001	-.0641	.30
	.40	-.040	.57	.015	-.088	.0018	-.1019	.40
70	-.40	-.043	.62	.012	-.000	.0008	.0749	-.40
	-.30	-.010	.50	.067	.032	.0018	.0574	-.30
	-.20	-.003	.47	.125	.037	.0011	.0371	-.20
	-.10	-.004	.49	.133	.038	.0007	.0270	-.10
	-.05	-.011	.48	.146	.042	.0006	.0247	-.05
	0.00	.004	.47	.150	.034	.0005	.0163	0.00
	0.00	-.005	.48	.155	.035	.0004	.0173	0.00
	.05	-.010	.49	.143	.016	.0005	-.0028	.05
	.10	-.007	.47	.138	-.024	.0005	-.0404	.10
	.20	-.007	.49	.129	-.037	.0008	-.0515	.20
	.30	-.013	.50	.062	-.063	-.0001	-.0683	.30
	.40	-.050	.65	.005	-.109	.0015	-.1026	.40
75	-.40	-.043	.64	.015	-.004	.0009	.0743	-.40
	-.30	-.010	.58	.010	.023	.0020	.0649	-.30
	-.20	-.002	.48	.096	.037	.0011	.0408	-.20
	-.10	-.001	.48	.111	.030	.0008	.0213	-.10
	-.05	-.003	.47	.126	.034	.0006	.0189	-.05
	0.00	-.003	.51	.116	.027	.0007	.0122	0.00
	0.00	-.005	.48	.129	.027	.0006	.0122	0.00
	.05	-.004	.47	.114	.011	.0006	-.0081	.05
	.10	-.006	.46	.111	-.014	.0007	-.0347	.10
	.20	-.005	.48	.099	-.024	.0010	-.0463	.20
	.30	-.010	.60	.013	-.045	.0005	-.0726	.30
	.40	-.045	.64	.017	-.088	.0009	-.0981	.40

PHASE II FOREBODY STUDY ROTARY BALANCE DATA

SB4.5A2+2"Vee STRAKES

BETA= 0

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
80	-.40	-.032	.65	-.010	.001	.0021	.0764	-.40
	-.30	.010	.60	.012	.020	.0016	.0641	-.30
	-.20	.018	.49	.048	.025	.0012	.0450	-.20
	-.10	.002	.47	.078	.024	.0010	.0237	-.10
	-.05	-.000	.48	.085	.026	.0009	.0148	-.05
	0.00	.005	.48	.081	.026	.0008	.0078	0.00
	0.00	.004	.48	.088	.027	.0008	.0080	0.00
	.05	.000	.48	.076	.021	.0009	-.0040	.05
	.10	.003	.48	.062	.001	.0010	-.0243	.10
	.20	.017	.47	.044	-.008	.0013	-.0452	.20
	.30	.011	.60	.012	-.035	.0018	-.0714	.30
	.40	-.034	.65	-.007	-.073	.0005	-.0963	.40
85	-.40	-.005	.64	.014	.003	.0018	.0825	-.40
	-.30	.012	.60	.024	.010	.0016	.0651	-.30
	-.20	.021	.56	.024	.020	.0014	.0501	-.20
	-.10	.015	.48	.033	.025	.0012	.0253	-.10
	-.05	.010	.48	.036	.024	.0011	.0130	-.05
	0.00	.011	.47	.036	.021	.0012	.0027	0.00
	0.00	.010	.46	.037	.017	.0012	.0030	0.00
	.05	.004	.48	.037	.017	.0010	-.0082	.05
	.10	.013	.48	.032	.012	.0011	-.0204	.10
	.20	.017	.57	.016	-.001	.0014	-.0487	.20
	.30	.013	.61	.007	-.019	.0018	-.0679	.30
	.40	-.003	.67	.008	-.049	.0020	-.0900	.40
90	-.40	-.000	.67	.023	-.003	.0013	.0821	-.40
	-.30	.018	.62	.002	.002	.0012	.0664	-.30
	-.20	.024	.52	.001	.008	.0012	.0473	-.20
	-.10	.023	.48	-.002	.017	.0014	.0246	-.10
	-.05	.016	.45	-.004	.020	.0014	.0129	-.05
	0.00	.020	.48	-.003	.019	.0013	.0018	0.00
	0.00	.019	.45	-.001	.022	.0013	.0028	0.00
	.05	.017	.45	-.005	.023	.0014	-.0079	.05
	.10	.023	.47	-.007	.023	.0015	-.0209	.10
	.20	.022	.53	-.001	.018	.0015	-.0455	.20
	.30	.015	.61	.011	-.000	.0015	-.0682	.30
	.40	-.003	.68	.018	-.029	.0016	-.0883	.40

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A1p+10

BETA= 10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.014	.00	.004	-.012	-.0001	-.0018	0.00
10	0.00	.012	.07	-.008	.006	-.0016	-.0079	0.00
20	0.00	.013	.19	-.029	.033	-.0023	-.0045	0.00
30	0.00	.014	.32	-.033	.007	-.0025	.0352	0.00
40	0.00	.012	.52	-.092	-.004	-.0025	.0423	0.00
50	0.00	-.006	.68	-.107	.003	-.0026	.0246	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.015	-.00	.004	.009	-.0002	.0020	0.00
10	0.00	.015	.06	-.006	-.009	.0015	.0083	0.00
20	0.00	.014	.19	-.028	-.033	.0026	.0053	0.00
30	0.00	.013	.32	-.030	-.011	.0034	-.0328	0.00
40	0.00	.006	.52	-.099	.005	.0045	-.0421	0.00
50	0.00	-.004	.68	-.119	-.027	.0052	-.0173	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.010	.00	.003	-.011	-.0002	-.0026	0.00
5	0.00	.009	.03	-.001	-.004	-.0009	-.0048	0.00
10	0.00	.009	.07	-.006	.009	-.0015	-.0087	0.00
15	0.00	.008	.14	-.018	.023	-.0020	-.0093	0.00
20	0.00	.010	.19	-.011	.027	-.0022	-.0007	0.00
25	0.00	.007	.25	.000	.015	-.0024	.0165	0.00
30	0.00	.001	.34	-.019	-.008	-.0024	.0395	0.00
35	0.00	.003	.44	-.044	-.021	-.0023	.0492	0.00
40	0.00	.001	.55	-.063	-.016	-.0022	.0428	0.00
45	0.00	-.004	.66	-.061	.007	-.0025	.0275	0.00
50	0.00	-.007	.72	-.040	.004	-.0026	.0304	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	.00	.001	.008	-.0005	.0022	0.00
5	0.00	.010	.04	-.004	.002	.0007	.0047	0.00
10	0.00	.009	.08	-.008	-.011	.0016	.0090	0.00
15	0.00	.008	.14	-.023	-.027	.0022	.0091	0.00
20	0.00	.007	.21	-.009	-.026	.0026	-.0025	0.00
25	0.00	.006	.26	.002	-.016	.0029	-.0206	0.00
30	0.00	.006	.36	-.020	.008	.0032	-.0459	0.00
35	0.00	.003	.45	-.040	.028	.0032	-.0587	0.00
40	0.00	.002	.57	-.056	.011	.0037	-.0444	0.00
45	0.00	-.005	.67	-.058	.000	.0041	-.0340	0.00
50	0.00	-.010	.74	-.046	-.006	.0044	-.0319	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.012	.00	.005	-.013	-.0002	-.0027	0.00
10	0.00	.013	.08	.001	.007	-.0016	-.0080	0.00
20	0.00	.013	.20	.019	.017	-.0022	.0071	0.00
30	0.00	.008	.36	.013	-.031	-.0024	.0515	0.00
40	0.00	.011	.59	-.019	.003	-.0026	.0270	0.00
50	0.00	-.006	.73	.046	.021	-.0033	.0309	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.012	.00	.004	.007	-.0002	.0030	0.00
10	0.00	.012	.07	.001	-.014	.0015	.0088	0.00
20	0.00	.014	.19	.016	-.027	.0024	-.0062	0.00
30	0.00	.009	.36	.012	.016	.0028	-.0522	0.00
40	0.00	.009	.59	-.006	.002	.0037	-.0396	0.00
50	0.00	-.009	.73	.043	-.043	.0045	-.0330	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A1p+10

BETA= 10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.008	.00	.001	.000	-.0000	-.0036	0.00
10	0.00	.008	.07	.005	-.000	-.0014	-.0074	0.00
20	0.00	.007	.19	.043	-.003	-.0019	.0164	0.00
30	0.00	.010	.35	.044	-.004	-.0021	.0500	0.00
40	0.00	.012	.57	.032	-.004	-.0027	.0254	0.00
50	0.00	-.003	.68	.135	-.010	-.0035	.0464	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A1p-10

BETA=-10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.009	-.01	.004	.003	-.0008	.0025	0.00
5	0.00	.010	.03	-.000	-.004	.0003	.0050	0.00
10	0.00	.013	.07	.004	-.021	.0012	.0077	0.00
15	0.00	.011	.15	.000	-.036	.0017	.0038	0.00
20	0.00	.015	.21	.047	-.018	.0021	-.0244	0.00
25	0.00	.014	.29	.053	.004	.0021	-.0473	0.00
30	0.00	.010	.40	.057	.013	.0025	-.0582	0.00
35	0.00	.012	.53	.040	-.020	.0034	-.0403	0.00
40	0.00	.010	.68	.019	-.048	.0039	-.0245	0.00
45	0.00	.001	.80	.064	-.056	.0043	-.0292	0.00
50	0.00	-.005	.82	.131	-.074	.0049	-.0442	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.013	-.00	.005	-.014	-.0001	-.0037	0.00
5	0.00	.013	.04	.007	-.007	-.0012	-.0055	0.00
10	0.00	.014	.08	.009	.007	-.0018	-.0065	0.00
15	0.00	.014	.15	.012	.020	-.0019	-.0029	0.00
20	0.00	.018	.20	.052	-.002	-.0026	.0254	0.00
25	0.00	.012	.28	.067	-.017	-.0026	.0461	0.00
30	0.00	.013	.38	.072	-.018	-.0028	.0545	0.00
35	0.00	.016	.52	.051	.023	-.0031	.0335	0.00
40	0.00	.012	.64	.095	-.010	-.0029	.0443	0.00
45	0.00	.010	.75	.151	-.025	-.0033	.0581	0.00
50	0.00	.001	.82	.204	.016	-.0044	.0646	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.012	.01	.008	.008	-.0003	.0036	0.00
5	0.00	.012	.03	.009	.001	.0007	.0053	0.00
10	0.00	.011	.08	.014	-.013	.0014	.0075	0.00
15	0.00	.011	.15	.015	-.028	.0017	.0035	0.00
20	0.00	.015	.20	.055	-.012	.0019	-.0204	0.00
25	0.00	.013	.28	.061	.010	.0022	-.0437	0.00
30	0.00	.011	.40	.065	.019	.0025	-.0535	0.00
35	0.00	.012	.51	.066	.004	.0028	-.0452	0.00
40	0.00	.010	.66	.038	-.064	.0040	-.0167	0.00
45	0.00	.003	.79	.079	-.089	.0044	-.0178	0.00
50	0.00	-.006	.81	.164	-.066	.0044	-.0419	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A1p+10

BETA= 10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.011	-.00	.002	-.011	.0000	-.0041	0.00
5	0.00	.011	.03	.006	-.004	-.0009	-.0059	0.00
10	0.00	.013	.07	.008	.013	-.0016	-.0083	0.00
15	0.00	.012	.15	.016	.025	-.0017	-.0023	0.00
20	0.00	.014	.22	.064	.001	-.0021	.0291	0.00
25	0.00	.068	.16	.034	-.017	-.0021	.0504	0.00
30	0.00	.011	.41	.080	-.026	-.0022	.0617	0.00
35	0.00	.011	.55	.083	.002	-.0025	.0471	0.00
40	0.00	.009	.69	.103	.033	-.0028	.0428	0.00
45	0.00	.008	.86	.135	.098	-.0040	.0352	0.00
50	0.00	.000	.93	.201	.087	-.0043	.0677	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.013	.01	.001	.009	.0000	.0031	0.00
5	0.00	.013	.04	.001	.002	.0011	.0054	0.00
10	0.00	.014	.09	.009	-.013	.0020	.0071	0.00
15	0.00	.013	.17	.016	-.026	.0023	.0010	0.00
20	0.00	.017	.23	.068	-.001	.0025	-.0313	0.00
25	0.00	.013	.31	.075	.021	.0026	-.0515	0.00
30	0.00	.015	.42	.082	.019	.0031	-.0530	0.00
35	0.00	.014	.56	.070	-.017	.0039	-.0347	0.00
40	0.00	.007	.71	.076	-.040	.0043	-.0275	0.00
45	0.00	.005	.83	.141	-.077	.0052	-.0263	0.00
50	0.00	-.003	.86	.196	-.060	.0052	-.0505	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.006	.00	.001	-.009	-.0001	-.0022	0.00
10	0.00	.007	.03	-.006	.002	-.0005	-.0065	0.00
20	0.00	.007	.11	-.006	.007	-.0007	.0040	0.00
30	0.00	.005	.20	-.012	-.013	-.0007	.0228	0.00
40	0.00	.002	.32	-.032	.011	-.0008	.0170	0.00
50	0.00	-.011	.39	-.032	.029	-.0016	.0150	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.007	.00	-.001	.017	.0002	.0049	0.00
10	0.00	.006	.05	-.010	.001	.0007	.0094	0.00
20	0.00	.009	.11	-.005	-.000	.0009	-.0060	0.00
30	0.00	.003	.21	-.011	.017	.0011	-.0252	0.00
40	0.00	.005	.32	-.030	-.001	.0031	-.0219	0.00
50	0.00	-.005	.38	-.025	-.002	.0034	-.0155	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.007	-.00	.000	-.017	.0000	-.0046	0.00
10	0.00	.008	.03	-.005	-.005	-.0003	-.0088	0.00
20	0.00	.007	.12	.002	-.003	-.0005	.0012	0.00
30	0.00	.003	.23	-.000	-.019	-.0006	.0284	0.00
40	0.00	.003	.36	-.025	.035	-.0007	.0063	0.00
50	0.00	-.012	.42	.038	.005	-.0010	.0302	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A2p-10

BETA=-10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.008	.00	-.001	.011	.0000	.0038	0.00
10	0.00	.008	.04	-.008	.004	.0007	.0079	0.00
20	0.00	.009	.12	.008	.010	.0009	-.0040	0.00
30	0.00	.003	.23	.004	.022	.0010	-.0297	0.00
40	0.00	.005	.36	-.024	-.028	.0016	-.0099	0.00
50	0.00	-.004	.40	.042	.005	.0014	-.0294	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	-.01	-.000	-.027	.0000	-.0057	0.00
10	0.00	.006	.04	-.004	-.017	-.0004	-.0089	0.00
20	0.00	.003	.12	.016	-.020	-.0005	.0064	0.00
30	0.00	.005	.25	.023	-.030	-.0008	.0276	0.00
40	0.00	.001	.40	.033	.021	-.0009	.0154	0.00
50	0.00	-.005	.43	.096	-.003	-.0014	.0408	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.008	-.01	-.003	-.007	.0001	.0027	0.00
10	0.00	.005	.03	-.007	-.014	.0007	.0079	0.00
20	0.00	.005	.12	.021	-.007	.0008	-.0123	0.00
30	0.00	.016	.26	.026	-.008	.0009	-.0271	0.00
40	0.00	.006	.41	.025	-.046	.0013	-.0166	0.00
50	0.00	-.003	.46	.109	-.025	.0011	-.0445	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	.00	-.001	-.004	.0000	-.0057	0.00
10	0.00	.015	.03	.000	.010	-.0006	-.0081	0.00
20	0.00	.019	.13	.036	.002	-.0008	.0166	0.00
30	0.00	.009	.30	.072	.037	-.0011	.0214	0.00
40	0.00	.008	.44	.119	.050	-.0016	.0522	0.00
50	0.00	-.004	.50	.155	.023	-.0020	.0559	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.006	.00	-.004	.027	.0002	.0060	0.00
10	0.00	.005	.04	-.001	.016	.0004	.0101	0.00
20	0.00	.005	.14	.042	.026	.0004	-.0138	0.00
30	0.00	.020	.29	.056	-.010	.0009	-.0120	0.00
40	0.00	.005	.41	.059	-.006	.0009	-.0165	0.00
50	0.00	-.001	.48	.087	.176	.0005	.0791	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
0	0.00	.013	-.01	-.000	-.011	.0001	-.0054	0.00
10	0.00	.007	.04	.018	.006	-.0004	-.0092	0.00
20	0.00	.008	.14	.056	-.008	-.0007	.0185	0.00
30	0.00	.003	.30	.083	.036	-.0012	.0178	0.00
40	0.00	.003	.43	.133	.031	-.0015	.0525	0.00
50	0.00	.382	.10	.078	.026	-.0017	.0553	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.026	.00	-.002	.019	.0001	.0068	0.00
10	0.00	.008	.05	.011	.006	.0005	.0090	0.00
20	0.00	.009	.15	.066	.016	.0005	-.0210	0.00
30	0.00	.002	.29	.062	-.027	.0009	-.0138	0.00
40	0.00	.006	.39	.124	-.017	.0006	-.0475	0.00
50	0.00	-.007	.49	.191	-.010	.0006	-.0554	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	.01	.002	-.012	-.0000	-.0061	0.00
10	0.00	.006	.04	.008	.000	-.0005	-.0087	0.00
20	0.00	.007	.15	.060	-.016	-.0008	.0207	0.00
30	0.00	.004	.29	.091	.037	-.0014	.0190	0.00
40	0.00	.005	.42	.164	.015	-.0019	.0614	0.00
50	0.00	-.014	.48	.205	.021	-.0023	.0572	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.005	.01	-.003	.015	.0008	.0059	0.00
10	0.00	.007	.05	.006	.005	.0005	.0088	0.00
20	0.00	.006	.16	.061	.013	.0004	-.0230	0.00
30	0.00	.010	.28	.088	-.028	.0008	-.0197	0.00
40	0.00	-.000	.45	.165	-.022	.0009	-.0611	0.00
50	0.00	-.001	.49	.159	.069	.0007	.0062	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.022	.00	-.001	-.039	-.0001	-.0066	0.00
10	0.00	.012	.07	-.011	-.044	.0002	-.0050	0.00
20	0.00	.009	.17	-.014	-.064	.0002	-.0041	0.00
30	0.00	.010	.27	-.022	-.067	-.0002	-.0147	0.00
40	0.00	.004	.41	-.035	-.029	-.0001	-.0148	0.00
50	0.00	.002	.51	-.057	-.037	-.0002	-.0474	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.018	.01	-.001	.035	-.0002	.0058	0.00
10	0.00	.019	.05	.004	.048	-.0001	.0036	0.00
20	0.00	.019	.15	.005	.088	.0001	-.0059	0.00
30	0.00	.017	.28	-.001	.056	.0001	.0020	0.00
40	0.00	.008	.40	-.005	.079	-.0001	-.0148	0.00
50	0.00	.005	.55	-.026	.071	-.0000	-.0428	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.012	-.01	.004	-.020	.0001	-.0032	0.00
10	0.00	.014	.02	.008	-.026	.0002	-.0031	0.00
20	0.00	.012	.07	.014	-.043	.0001	-.0025	0.00
30	0.00	.009	.14	.017	-.052	.0002	-.0036	0.00
40	0.00	.005	.22	.022	-.067	.0002	-.0065	0.00
50	0.00	-.001	.29	.026	-.084	.0001	-.0064	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.010	-.00	.005	.024	.0001	.0054	0.00
10	0.00	.010	.02	.012	.031	-.0000	.0032	0.00
20	0.00	.010	.09	.014	.037	.0002	.0045	0.00
30	0.00	.008	.15	.018	.036	.0002	.0050	0.00
40	0.00	.008	.22	.018	.066	.0003	.0081	0.00
50	0.00	.003	.30	.020	.090	.0003	.0105	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.011	-.01	.005	-.012	-.0000	-.0037	0.00
10	0.00	.013	.02	.011	-.022	.0000	-.0051	0.00
20	0.00	.012	.07	.025	-.046	-.0000	-.0046	0.00
30	0.00	.010	.15	.037	-.049	-.0000	-.0072	0.00
40	0.00	.007	.23	.030	-.100	-.0000	-.0158	0.00
50	0.00	.007	.36	.024	-.161	-.0001	-.0425	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3A3p-10

BETA=-10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.007	-.01	.003	.026	.0000	.0062	0.00
10	0.00	.007	.02	.014	.032	.0000	.0053	0.00
20	0.00	.008	.08	.021	.038	.0000	.0077	0.00
30	0.00	.009	.16	.034	.040	.0000	.0061	0.00
40	0.00	-.026	.25	.049	.068	.0000	.0117	0.00
50	0.00	.005	.35	.055	.032	-.0001	-.0160	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.009	-.00	-.001	.000	-.0000	-.0061	0.00
10	0.00	.011	.03	.010	-.000	.0000	-.0079	0.00
20	0.00	.010	.08	.026	-.001	-.0001	-.0111	0.00
30	0.00	.007	.16	.014	-.001	-.0003	-.0313	0.00
40	0.00	.007	.27	.041	-.002	-.0004	-.0583	0.00
50	0.00	.002	.37	.068	-.003	-.0005	-.0754	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4R3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.006	.00	.001	-.000	.0001	.0058	0.00
10	0.00	.006	.03	.012	-.001	.0002	.0064	0.00
20	0.00	.006	.07	.033	-.002	.0001	.0008	0.00
30	0.00	.005	.15	.040	-.003	.0003	.0058	0.00
40	0.00	.009	.28	.063	-.004	.0003	-.0252	0.00
50	0.00	.002	.42	.128	-.007	.0000	-.0518	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	-.01	.003	-.025	-.0003	-.0077	0.00
10	0.00	.007	.02	.015	-.033	-.0002	-.0100	0.00
20	0.00	.005	.09	.038	-.048	-.0002	-.0117	0.00
30	0.00	.010	.20	.058	-.035	.0000	.0095	0.00
40	0.00	.010	.37	.127	-.042	.0003	.0601	0.00
50	0.00	.002	.39	.152	-.084	.0003	.0426	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.005	.00	.004	.025	.0000	.0081	0.00
10	0.00	.006	.02	.019	.030	.0000	.0083	0.00
20	0.00	.008	.08	.042	.061	.0001	.0053	0.00
30	0.00	.011	.17	.024	.096	.0002	.0299	0.00
40	0.00	.013	.30	.037	.168	.0006	.0540	0.00
50	0.00	.003	.40	.107	.132	.0004	.0354	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.002	-.01	.003	-.026	-.0002	-.0090	0.00
10	0.00	.003	.02	.018	-.038	-.0002	-.0114	0.00
20	0.00	.003	.08	.043	-.058	-.0002	-.0154	0.00
30	0.00	.006	.21	.074	-.039	-.0000	.0168	0.00
40	0.00	.007	.36	.159	-.026	.0003	.0594	0.00
50	0.00	-.002	.46	.199	-.071	.0003	.0294	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	-.00	.003	.023	-.0003	.0081	0.00
10	0.00	.003	.03	.020	.030	-.0002	.0086	0.00
20	0.00	.001	.11	.049	.030	-.0001	.0092	0.00
30	0.00	.003	.21	.076	.013	-.0001	-.0171	0.00
40	0.00	.005	.36	.167	-.005	.0000	-.0648	0.00
50	0.00	-.002	.44	.183	.042	.0000	-.0399	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB0.8A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.006	.00	.000	-.023	.0003	-.0030	0.00
10	0.00	.005	-.00	.024	-.041	.0005	.0012	0.00
20	0.00	.005	.04	-.026	-.076	.0007	-.0038	0.00
30	0.00	.001	.09	-.035	-.104	.0008	-.0145	0.00
40	0.00	.000	.17	-.036	-.162	.0010	-.0081	0.00
50	0.00	-.003	.20	-.034	-.177	.0011	-.0325	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB0.8A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.008	-.00	-.000	.031	-.0001	.0033	0.00
10	0.00	.003	.01	.009	.047	-.0005	-.0044	0.00
20	0.00	.006	.04	-.007	.098	-.0024	-.0060	0.00
30	0.00	.012	.10	-.037	.110	-.0023	.0154	0.00
40	0.00	.006	.17	-.020	.144	-.0026	.0102	0.00
50	0.00	-.009	.21	-.021	.135	-.0026	.0277	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1.6A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
0	0.00	.001	-.00	.000	-.036	.0001	-.0056	0.00
10	0.00	.003	.00	.008	-.051	.0004	.0000	0.00
20	0.00	.002	.06	-.005	-.086	.0007	-.0084	0.00
30	0.00	.001	.10	-.023	-.135	.0008	-.0167	0.00
40	0.00	-.001	.16	-.016	-.175	.0010	-.0262	0.00
50	0.00	-.013	.23	-.006	-.161	.0011	-.0393	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB1.6A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.001	.00	-.000	.026	-.0000	.0040	0.00
10	0.00	.019	.00	.009	.044	-.0017	-.0022	0.00
20	0.00	.018	.05	-.003	.089	-.0023	.0029	0.00
30	0.00	.018	.10	-.028	.120	-.0014	.0198	0.00
40	0.00	.016	.15	-.017	.129	-.0028	.0260	0.00
50	0.00	-.001	.22	-.007	.135	-.0028	.0382	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2.4A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.006	-.01	-.002	-.027	-.0001	-.0038	0.00
10	0.00	.008	.00	.004	-.048	.0004	-.0003	0.00
20	0.00	.007	.07	-.008	-.091	.0006	-.0162	0.00
30	0.00	.003	.11	-.009	-.153	.0005	-.0282	0.00
40	0.00	.001	.16	.002	-.174	.0006	-.0475	0.00
50	0.00	-.007	.25	.014	-.197	.0006	-.0673	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2.4A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.029	-.00	.000	.034	-.0000	.0068	0.00
10	0.00	.008	-.00	.005	.056	-.0013	.0008	0.00
20	0.00	.012	.07	-.005	.101	-.0008	.0150	0.00
30	0.00	.004	.12	.003	.142	-.0009	.0267	0.00
40	0.00	.005	.17	.000	.131	-.0011	.0511	0.00
50	0.00	.001	.24	.017	.160	-.0013	.0603	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	-.01	-.001	-.031	.0002	-.0081	0.00
10	0.00	.008	-.00	.009	-.057	.0007	-.0037	0.00
20	0.00	.009	.04	-.004	-.118	.0007	-.0258	0.00
30	0.00	.004	.12	.005	-.191	.0005	-.0455	0.00
40	0.00	-.000	.20	.011	-.191	.0003	-.0753	0.00
50	0.00	-.013	.26	.048	-.154	.0008	-.0573	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.024	-.00	-.001	.033	.0000	.0079	0.00
10	0.00	.007	.01	.008	.057	-.0021	.0028	0.00
20	0.00	.008	.05	-.005	.106	-.0004	.0238	0.00
30	0.00	.011	.12	.006	.153	-.0008	.0331	0.00
40	0.00	.009	.20	.010	.129	-.0010	.0508	0.00
50	0.00	.001	.28	.073	.037	-.0034	-.0151	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.6A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.007	.01	.001	-.031	-.0000	-.0075	0.00
10	0.00	.011	.01	.009	-.061	.0005	-.0032	0.00
20	0.00	.025	.05	.002	-.105	.0002	-.0296	0.00
30	0.00	.004	.14	.012	-.165	.0008	-.0423	0.00
40	0.00	.005	.22	.023	-.162	.0014	-.0708	0.00
50	0.00	-.002	.26	.058	-.144	.0012	-.0643	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.6A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.008	-.00	-.000	.045	-.0001	.0091	0.00
10	0.00	.008	.01	.008	.074	-.0005	.0049	0.00
20	0.00	.010	.05	-.007	.096	-.0008	.0291	0.00
30	0.00	.013	.14	.008	.150	-.0012	.0349	0.00
40	0.00	.016	.20	.035	.146	-.0016	.0674	0.00
50	0.00	-.002	.28	.103	.042	-.0028	-.0077	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.024	.01	.002	-.027	-.0001	-.0069	0.00
10	0.00	.004	-.01	.020	-.062	.0006	-.0037	0.00
20	0.00	.009	.02	-.007	-.106	.0008	-.0334	0.00
30	0.00	.007	.11	.015	-.172	.0010	-.0515	0.00
40	0.00	-.003	.19	.043	-.140	.0013	-.0590	0.00
50	0.00	-.006	.26	.082	-.121	.0014	-.0522	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.008	-.00	-.001	.036	.0000	.0091	0.00
10	0.00	.007	.01	.012	.058	-.0003	.0060	0.00
20	0.00	.012	.07	-.006	.100	-.0006	.0356	0.00
30	0.00	.005	.12	.022	.147	-.0009	.0475	0.00
40	0.00	.009	.17	.039	.121	-.0011	.0619	0.00
50	0.00	.003	.28	.092	.104	-.0014	.0304	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A1p+10

BETA= 10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.010	.00	.001	-.000	-.0000	-.0027	0.00
10	0.00	.009	.07	-.001	.000	-.0014	-.0071	0.00
20	0.00	.012	.17	.017	-.002	-.0021	.0080	0.00
30	0.00	.010	.33	.014	-.003	-.0021	.0470	0.00
40	0.00	.013	.53	-.006	-.002	-.0026	.0270	0.00
50	0.00	-.003	.70	.043	-.005	-.0034	.0288	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.008	.01	.003	.023	.0000	.0041	0.00
5	0.00	.009	.04	-.001	.017	.0012	.0065	0.00
10	0.00	.009	.08	-.001	.002	.0020	.0095	0.00
15	0.00	.010	.15	-.011	-.014	.0024	.0077	0.00
20	0.00	.011	.21	.020	-.010	.0029	-.0097	0.00
25	0.00	.011	.28	.029	.010	.0031	-.0320	0.00
30	0.00	.012	.37	.010	.039	.0033	-.0535	0.00
35	0.00	.010	.49	-.001	.036	.0038	-.0499	0.00
40	0.00	.009	.62	-.011	.011	.0046	-.0328	0.00
45	0.00	.003	.75	-.005	-.020	.0051	-.0223	0.00
50	0.00	-.012	.74	.060	-.016	.0051	-.0318	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.010	-.00	.002	-.010	-.0000	-.0040	0.00
5	0.00	.010	.03	.005	-.004	-.0010	-.0060	0.00
10	0.00	.013	.07	.007	.012	-.0016	-.0084	0.00
15	0.00	.013	.14	.012	.025	-.0018	-.0035	0.00
20	0.00	.014	.21	.054	.006	-.0023	.0225	0.00
25	0.00	.016	.29	.056	-.014	-.0023	.0003	0.00
30	0.00	.014	.39	.059	-.031	-.0022	.0550	0.00
35	0.00	.011	.52	.048	-.004	-.0025	.0332	0.00
40	0.00	.009	.66	.042	.024	-.0025	.0188	0.00
45	0.00	-.000	.77	.127	.015	-.0029	.0349	0.00
50	0.00	-.002	.81	.159	.041	-.0038	.0362	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.012	.00	.000	.013	.0001	.0039	0.00
5	0.00	.012	.04	.002	.006	.0012	.0062	0.00
10	0.00	.013	.08	.006	-.010	.0021	.0081	0.00
15	0.00	.014	.16	.008	-.024	.0024	.0033	0.00
20	0.00	.016	.22	.055	-.004	.0028	-.0245	0.00
25	0.00	.015	.30	.061	.020	.0029	-.0466	0.00
30	0.00	.013	.40	.066	.035	.0032	-.0551	0.00
35	0.00	.012	.53	.060	.010	.0039	-.0379	0.00
40	0.00	.007	.70	.040	-.057	.0050	-.0108	0.00
45	0.00	.005	.81	.096	-.074	.0054	-.0120	0.00
50	0.00	-.001	.82	.159	-.052	.0053	-.0348	0.00
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***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	0.00	.007	.00	.004	-.015	.0000	-.0044	0.00
10	0.00	.008	.08	.008	.008	-.0016	-.0088	0.00
20	0.00	.008	.22	.052	.009	-.0025	.0207	0.00
30	0.00	.008	.40	.052	-.032	-.0025	.0574	0.00
40	0.00	.010	.66	.036	.021	-.0028	.0271	0.00
50	0.00	-.005	.82	.136	.049	-.0041	.0391	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.008	.00	.004	.013	.0001	.0045	0.00
10	0.00	.009	.08	.009	-.012	.0022	.0093	0.00
20	0.00	.010	.23	.048	-.021	.0032	-.0189	0.00
30	0.00	.006	.39	.054	.023	.0034	-.0579	0.00
40	0.00	.003	.67	.043	-.002	.0046	-.0232	0.00
50	0.00	-.011	.81	.137	-.044	.0056	-.0295	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	-.01	.008	-.020	-.0005	-.0042	0.00
10	0.00	.027	.02	.006	-.002	-.0011	-.0088	0.00
20	0.00	.025	.12	.024	.000	-.0012	.0112	0.00
30	0.00	.009	.26	.052	-.007	-.0014	.0280	0.00
40	0.00	.009	.39	.034	.035	-.0016	.0067	0.00
50	0.00	.003	.45	.103	.005	-.0020	.0305	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4/3A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.006	.01	-.001	.014	.0001	.0059	0.00
10	0.00	.010	.05	-.000	.004	.0006	.0102	0.00
20	0.00	.028	.12	.023	.007	.0007	-.0089	0.00
30	0.00	.008	.26	.046	.020	.0010	-.0294	0.00
40	0.00	.004	.42	.027	-.040	.0014	-.0017	0.00
50	0.00	-.006	.47	.106	-.001	.0011	-.0410	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	.00	-.000	-.012	.0001	-.0066	0.00
10	0.00	.010	.04	.005	-.000	-.0003	-.0095	0.00
20	0.00	.008	.15	.056	-.015	-.0007	.0161	0.00
30	0.00	.010	.27	.080	.021	-.0009	.0131	0.00
40	0.00	.007	.43	.137	.021	-.0014	.0367	0.00
50	0.00	-.016	.55	.191	.014	-.0021	.0505	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4.5A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.008	.00	-.002	.015	.0009	.0062	0.00
10	0.00	.008	.05	.004	.002	.0005	.0088	0.00
20	0.00	.008	.16	.056	.016	.0006	-.0184	0.00
30	0.00	.010	.27	.069	-.018	.0009	-.0124	0.00
40	0.00	.006	.44	.140	-.016	.0010	-.0397	0.00
50	0.00	-.001	.53	.188	.000	.0008	-.0504	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A2p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.017	-.07	-.022	-.012	.0000	-.0066	0.00
10	0.00	.007	.08	.011	-.005	-.0004	-.0094	0.00
20	0.00	.015	.13	.048	-.017	-.0008	.0125	0.00
30	0.00	.005	.26	.077	-.016	-.0009	.0257	0.00
40	0.00	.001	.41	.088	.020	-.0013	.0197	0.00
50	0.00	-.003	.50	.169	-.000	-.0019	.0401	0.00
	0.00	.002	-.00	-.001	-.009	.0000	-.0028	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5/4A2p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_I	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.007	.00	-.002	.021	.0006	.0066	0.00
10	0.00	.007	.06	.004	.003	.0006	.0099	0.00
20	0.00	.008	.14	.049	.012	.0006	-.0124	0.00
30	0.00	.008	.25	.068	.006	.0008	-.0163	0.00
40	0.00	.010	.40	.085	-.021	.0011	-.0231	0.00
50	0.00	-.003	.48	.159	.003	.0009	-.0414	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2/2.4A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.004	-.00	-.000	-.027	-.0001	-.0063	0.00
10	0.00	.005	.00	.021	-.051	.0004	-.0017	0.00
20	0.00	.004	.06	-.006	-.099	.0004	-.0182	0.00
30	0.00	.008	.11	.003	-.150	.0005	-.0283	0.00
40	0.00	.001	.19	.009	-.165	.0005	-.0422	0.00
50	0.00	-.005	.27	.026	-.180	.0005	-.0559	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB3.2/2.4A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.008	-.00	-.000	.031	.0000	.0069	0.00
10	0.00	.009	.00	.014	.055	-.0020	.0015	0.00
20	0.00	.007	.05	-.005	.098	-.0006	.0171	0.00
30	0.00	.013	.14	.002	.130	-.0012	.0252	0.00
40	0.00	.002	.20	.008	.128	-.0012	.0478	0.00
50	0.00	.002	.26	.034	.145	-.0014	.0529	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.6A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.016	-.02	-.000	-.036	.0001	-.0073	0.00
10	0.00	.006	-.01	.017	-.069	.0004	-.0037	0.00
20	0.00	.006	.05	-.002	-.109	.0008	-.0303	0.00
30	0.00	-.037	.22	.043	-.148	.0007	-.0404	0.00
40	0.00	.005	.18	.037	-.169	.0012	-.0714	0.00
50	0.00	.002	.25	.065	-.167	.0013	-.0806	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.6A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.018	-.00	-.000	.033	.0001	.0085	0.00
10	0.00	.009	.01	.012	.061	-.0005	.0052	0.00
20	0.00	.014	.06	-.006	.101	-.0006	.0329	0.00
30	0.00	.006	.13	.015	.149	-.0010	.0395	0.00
40	0.00	.008	.17	.037	.139	-.0015	.0657	0.00
50	0.00	.004	.27	.066	.143	-.0015	.0731	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.2A4p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	-.01	-.002	-.032	-.0000	-.0074	0.00
10	0.00	.009	.00	.017	-.061	.0004	-.0036	0.00
20	0.00	.008	.06	-.005	-.103	.0008	-.0240	0.00
30	0.00	.010	.14	.015	-.158	.0008	-.0333	0.00
40	0.00	.010	.20	.020	-.150	.0012	-.0622	0.00
50	0.00	.004	.26	.064	-.171	.0014	-.0750	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.0/3.2A4p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.013	-.00	.000	.035	-.0001	.0092	0.00
10	0.00	.009	-.00	.018	.061	-.0005	.0041	0.00
20	0.00	.010	.05	-.010	.102	-.0006	.0281	0.00
30	0.00	.020	.13	.011	.143	-.0011	.0330	0.00
40	0.00	.013	.17	.030	.124	-.0014	.0556	0.00
50	0.00	.393	-.16	-.045	.159	-.0016	.0733	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A1p+10

BETA= 10

ALPHA	$\alpha b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\alpha b/2V$
0	0.00	.004	-.02	-.004	-.007	.0004	-.0025	0.00
10	0.00	.016	.03	-.006	.007	-.0009	-.0081	0.00
20	0.00	.021	.15	.000	.012	-.0030	.0049	0.00
30	0.00	.004	.31	.014	.019	-.0036	.0272	0.00
40	0.00	-.006	.46	.044	.024	-.0041	.0363	0.00
50	0.00	-.023	.58	.060	.012	-.0044	.0272	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.003	-.01	-.004	.007	-.0001	.0031	0.00
10	0.00	.015	.05	-.006	-.003	.0011	.0087	0.00
20	0.00	.007	.15	.004	-.008	.0020	-.0094	0.00
30	0.00	-.002	.34	.014	-.008	.0036	-.0368	0.00
40	0.00	-.008	.48	.037	-.017	.0047	-.0435	0.00
50	0.00	-.023	.57	.063	-.004	.0049	-.0326	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.005	-.02	-.019	-.008	.0004	-.0057	0.00
10	0.00	.006	.06	-.001	.006	-.0008	-.0093	0.00
20	0.00	.007	.18	.021	.013	-.0031	.0094	0.00
30	0.00	-.013	.31	.085	.008	-.0039	.0365	0.00
40	0.00	-.006	.51	.106	.049	-.0052	.0329	0.00
50	0.00	-.025	.63	.184	-.008	-.0061	.0448	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.022	-.01	-.012	.013	-.0003	.0048	0.00
10	0.00	.006	.07	-.001	-.003	.0010	.0090	0.00
20	0.00	.003	.20	.028	-.010	.0018	-.0145	0.00
30	0.00	.001	.31	.067	.018	.0021	-.0495	0.00
40	0.00	-.011	.51	.087	-.039	.0033	-.0306	0.00
50	0.00	-.019	.60	.186	-.018	.0037	-.0486	0.00
*****	*****	*****	*****	*****	*****	*****	*****	*****

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.008	-.00	-.001	-.028	.0001	-.0066	0.00
10	0.00	.005	.02	.006	-.033	.0002	-.0060	0.00
20	0.00	.019	.09	-.020	-.028	.0000	-.0152	0.00
30	0.00	.004	.13	.006	-.061	-.0000	-.0167	0.00
40	0.00	-.000	.20	.023	-.075	.0001	-.0086	0.00
50	0.00	-.003	.30	.021	-.090	.0002	-.0214	0.00

***** PHASE 11 FOREBODY STUDY ROTARY BALANCE DATA *****

SDB3A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.006	-.00	.000	.023	-.0002	.0042	0.00
10	0.00	.018	.01	.011	.034	-.0002	.0018	0.00
20	0.00	.014	.08	.008	.044	-.0001	.0079	0.00
30	0.00	.002	.14	.008	.051	-.0002	.0171	0.00
40	0.00	.005	.19	.015	.089	-.0002	.0200	0.00
50	0.00	-.005	.34	.009	.119	-.0002	.0352	0.00

***** PHASE 11 FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.007	-.02	-.018	-.031	.0004	-.0097	0.00
10	0.00	-.004	.09	.024	-.042	.0003	-.0089	0.00
20	0.00	.005	.08	.008	-.048	.0004	-.0210	0.00
30	0.00	.006	.15	.035	-.062	.0005	-.0183	0.00
40	0.00	-.005	.26	.081	-.042	.0001	.0148	0.00
50	0.00	-.012	.39	.154	-.002	-.0016	.0429	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SDB5A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.027	-.01	-.012	.025	-.0003	.0083	0.00
10	0.00	.009	.02	.009	.031	-.0002	.0042	0.00
20	0.00	.009	.07	.024	.046	-.0002	.0121	0.00
30	0.00	.008	.15	.033	.030	-.0003	.0138	0.00
40	0.00	.003	.23	.058	.041	-.0002	.0107	0.00
50	0.00	-.003	.36	.089	.091	-.0008	.0418	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC1B4A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.026	-.01	-.001	-.021	.0002	-.0074	0.00
10	0.00	.007	.06	.029	-.010	-.0001	-.0045	0.00
20	0.00	.007	.13	.083	-.008	-.0005	.0086	0.00
30	0.00	.006	.27	.141	-.028	-.0007	.0173	0.00
40	0.00	-.007	.38	.252	-.044	-.0008	.0407	0.00
50	0.00	.000	.49	.266	-.061	-.0004	.0120	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC1B4A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.030	.00	.000	.017	-.0000	.0063	0.00
10	0.00	.007	.06	.033	.010	.0003	.0032	0.00
20	0.00	.007	.13	.090	.005	.0007	-.0124	0.00
30	0.00	.013	.25	.130	.002	.0026	-.0132	0.00
40	0.00	.020	.38	.232	.007	.0016	-.0443	0.00
50	0.00	-.003	.47	.270	.069	.0013	-.0108	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC2B4A3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.019	-.00	.002	-.022	-.0000	-.0059	0.00
10	0.00	.007	.03	.002	-.016	-.0000	-.0088	0.00
20	0.00	.008	.12	.027	-.014	-.0001	.0090	0.00
30	0.00	.007	.21	.073	.033	-.0001	.0207	0.00
40	0.00	.006	.32	.115	.021	-.0001	.0582	0.00
50	0.00	-.005	.44	.151	.021	-.0000	.0361	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SC2B4A3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_y	C_l	C_n	$\Omega b/2V$

0	0.00	.014	.00	.001	.015	-.0000	.0076	0.00
10	0.00	.008	.03	.001	.015	-.0000	.0098	0.00
20	0.00	.009	.11	.026	.012	-.0008	-.0082	0.00
30	0.00	.008	.22	.058	-.030	-.0009	-.0185	0.00
40	0.00	.002	.31	.133	-.046	-.0015	-.0588	0.00
50	0.00	-.000	.41	.141	.021	.0002	-.0099	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.009	-.03	-.004	-.092	-.0070	.0465	0.00
10	0.00	.002	.62	.012	-.102	-.0183	.0548	0.00
20	0.00	-.004	1.20	.034	-.064	.0025	.0409	0.00
30	0.00	-.008	1.54	-.030	.024	.0121	-.0255	0.00
40	0.00	.000	1.66	-.048	.048	-.0350	-.0276	0.00
50	0.00	-.001	1.72	-.111	.013	-.0264	-.0355	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.019	-.01	-.001	.085	.0132	-.0523	0.00
10	0.00	.012	.65	.009	.096	.0258	-.0598	0.00
20	0.00	.002	1.24	.037	.065	-.0010	-.0413	0.00
30	0.00	.011	1.51	-.027	-.027	.0062	.0242	0.00
40	0.00	.004	1.65	-.055	-.048	.0312	.0330	0.00
50	0.00	.004	1.74	-.118	-.011	.0271	.0352	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA1p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.017	-.04	-.007	-.097	-.0062	.0448	0.00
10	0.00	.001	.60	.025	-.101	-.0195	.0547	0.00
20	0.00	.001	1.22	.080	-.040	.0008	.0525	0.00
30	0.00	-.012	1.64	.119	.064	.0129	.0177	0.00
40	0.00	.003	1.80	.133	.137	.0256	.0072	0.00
50	0.00	.001	1.83	.145	.095	-.0232	.0231	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA1p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.017	-.02	-.002	.121	.0117	-.0502	0.00
10	0.00	-.001	.64	.031	.136	.0275	-.0613	0.00
20	0.00	-.006	1.30	.079	.079	.0047	-.0537	0.00
30	0.00	-.021	1.69	.118	-.024	-.0024	-.0148	0.00
40	0.00	-.002	1.73	.123	-.075	-.0188	-.0045	0.00
50	0.00	-.010	1.82	.122	-.061	.0216	-.0185	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
*****	*****	*****	*****	*****	*****	*****	*****	*****
0	0.00	.033	-.01	-.001	-.105	-.0103	.0486	0.00
10	0.00	.007	.60	-.004	-.123	-.0187	.0577	0.00
20	0.00	.016	1.12	.003	-.097	-.0037	.0410	0.00
30	0.00	.032	1.45	-.049	-.002	.0218	-.0448	0.00
40	0.00	.028	1.40	-.090	-.002	-.0079	-.0348	0.00
50	0.00	.042	1.47	-.125	-.018	-.0238	-.0057	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB2WVA3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.017	.01	.002	.116	.0135	-.0504	0.00
10	0.00	.008	.64	-.005	.133	.0216	-.0560	0.00
20	0.00	.011	1.16	.007	.118	.0056	-.0386	0.00
30	0.00	.030	1.42	-.048	.035	-.0200	.0410	0.00
40	0.00	.034	1.41	-.092	.028	.0125	.0343	0.00
50	0.00	.032	1.50	-.129	.069	.0184	-.0039	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA3p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.017	-.01	-.004	-.116	-.0110	.0446	0.00
10	0.00	.026	.60	.004	-.136	-.0184	.0515	0.00
20	0.00	.009	1.16	.036	-.118	-.0058	.0301	0.00
30	0.00	.016	1.57	.048	-.114	-.0274	-.0302	0.00
40	0.00	.029	1.42	-.013	-.126	-.0142	-.1338	0.00
50	0.00	.030	1.53	.002	-.069	-.0297	-.0562	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB5WVA3p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	.018	.01	-.002	.131	.0124	-.0451	0.00
10	0.00	.025	.63	.004	.149	.0204	-.0489	0.00
20	0.00	.008	1.21	.045	.130	.0079	-.0301	0.00
30	0.00	.030	1.45	.034	.006	-.0100	.0228	0.00
40	0.00	.022	1.45	.096	.004	.0167	-.0543	0.00
50	0.00	.038	1.52	.036	.081	.0232	-.0052	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2+2"Vee STRAKES p+10

BETA= 10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	-.000	-.01	.003	-.008	.0002	-.0050	0.00
10	0.00	.001	.05	.016	.000	-.0002	-.0102	0.00
20	0.00	.001	.15	.059	-.016	-.0003	.0146	0.00
30	0.00	-.000	.25	.083	-.019	-.0007	.0320	0.00
40	0.00	.005	.36	.034	.003	-.0009	.0142	0.00
50	0.00	-.019	.38	.110	-.142	-.0010	-.0582	0.00

***** PHASE II FOREBODY STUDY ROTARY BALANCE DATA *****

SB4.5A2+2"Vee STRAKES p-10

BETA=-10

ALPHA	$\Omega b/2V$	C_A	C_N	C_m	C_Y	C_l	C_n	$\Omega b/2V$
0	0.00	-.000	-.00	.004	.013	.0003	.0082	0.00
10	0.00	.000	.06	.023	.004	.0006	.0115	0.00
20	0.00	.000	.15	.062	.024	.0007	-.0110	0.00
30	0.00	-.000	.25	.079	.022	.0007	-.0274	0.00
40	0.00	-.002	.40	.109	-.014	.0011	-.0247	0.00
50	0.00	-.010	.46	.181	.008	.0008	-.0353	0.00