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RESISTANCE OF HARD-CHINE, 'STEPLESS
PLANING CRAFT WITH SYSTEMATIC VARIA-
TION OF HULL FORM, LONGITUDINAL
CENTER OF GRAVITY, AND LOADING

E. Nadine Hubble

Naval Ship Research and Development Center
Bethesda, Maryland

April 1974

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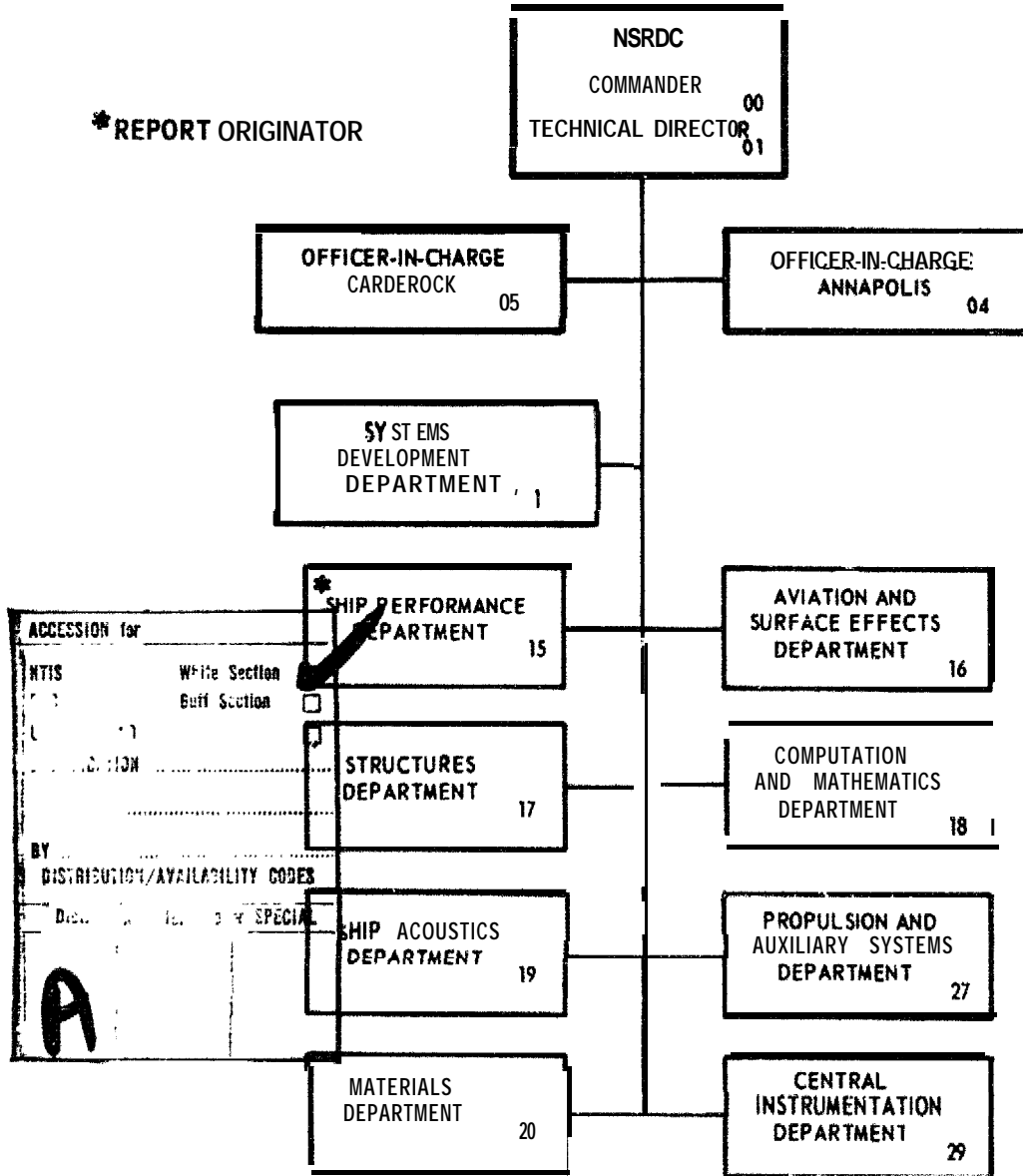
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NOTATION

| Standard Notation | Computer Printout | |
|----------------------|---------------------------------------|---|
| A_p | | Projected planing-bottom area* in square feet |
| B_p | | Breadth over chines" in feet |
| B_{pA} | | Mean breadth over chines* in feet |
| B_{pT} | | Breadth over chines at transom* in feet |
| B_{pX} | BPX | Maximum breadth over chines* in feet |
| BL | | Baseline of hull as drawn |
| C_A | DCF | Correlation allowance coefficient |
| CG | | Center of gravity |
| $F_{n\bar{V}}$ | FN\bar{V} | Volume Froude number $v/\sqrt{g\bar{V}^{1/3}}$ |
| g | | Acceleration due to gravity in feet per square second |
| L_c | LC | Projected wetted chine length, excluding spray, in feet |
| L_k | LK | Projected wetted keel length in feet |
| L_p | LP | Projected length of chine from transom to bow profile in feet |
| LCG | LCG | Longitudinal center of gravity in feet (see Figure 5) |
| | LIFT | Lift; sum of vertical components of hydrodynamic forces in pounds |
| L_p/B_{pX} | LP/BPX | Length-beam ratio |
| $L_p/\bar{V}^{1/3}$ | LP/ $\bar{V}^{(1/3)}$ | Slenderness ratio |
| R | RESISTANCE | Resistance; sum of horizontal components of hydrodynamic forces in pounds |
| S | | Wetted area of hull in feet; includes area of sides wetted at low speeds and wetted bottom of spray strips but not area wetted by spray and the transom |
| $S/\bar{V}^{2/3}$ | S/$\bar{V}^{(2/3)}$ | Wetted area coefficient |
| v | | Speed in feet per second |

* External spray strips are not included.

| Standard Notation | Computer Printout | |
|-------------------|-------------------|---|
| VCC | | Vertical center of gravity in feet |
| W | WEIGHT | Weight of boat in pounds |
| \bar{x}_p | | Distance of centroid of A, forward of transom expressed as 3 ratio of L_p |
| β_T | DEADRISE | Deadrise angle at transom in degrees |
| β_{50} | | Deadrise angle at 50 percent of L_p |
| τ | TRIM | Angle of attack of after portion of planing bottom; angle between trim reference line (see Figure 5) and water surface in degrees |
| ν | | Kinematic viscosity of water in square feet per second |
| ρ | | Mass density of water in slugs per cubic foot |
| Δ | | Displacement at rest ($\rho g \nabla$) in pounds |
| ∇ | | Volume of water displaced at rest in cubic feet |

ABSTRACT

Smooth-water resistance and trimming characteristics are presented for 22 planing craft hulls representing systematic variations of chine planform, length-beam ratio, and deadrise angle. Resistance-weight ratios and trim angles have been derived from model experimental data at comparable speed and loading conditions as a function of the location of the longitudinal center of gravity in order to facilitate optimization in small craft design.

ADMINISTRATIVE INFORMATION

This project was authorized and funded by the Norfolk Division of the Naval Ship Engineering Center under Project Order 4-0001 and by the General Hydromechanics Research Program of the Naval Ship Research and Development Center (NSRDC). Preparation of this report was done under Work Unit 1560-007.

INTRODUCTION

The resistance and trimming characteristics of two systematic series of hard-chine, step-less, planing hull forms have been investigated at the Center over the past 15 years. The first of these was Series 62 which consists of 5 hulls. The most recent series consisting of 16 hulls is Series 65.

The results of stilt-water resistance experiments conducted at the Center with models of the Series 62 and 65 hulls have already been reported.^{1,2} The experimental data, however, provide no means for direct comparison between hull forms since different loading criteria and testing techniques were utilized for each series. The objective of this report is to present the resistance and trimming characteristics of Series 62 and Series 65 on a comparable basis. The data are presented in tabular and graphical form for reference by the small boat designer and as a repository from which the effects of various changes in hull geometry and loading may be deduced.

¹Clement, I.P. and D.L. Blount, "Resistance Tests of a Systematic Series of Planing Hull Forms," Transactions of the Society of Naval Architects and Marine Engineers, Vol. 71 (1963).

²Holling, H.D. and F.N. Hubble, "Model Resistance Data of Series 65 Hull Forms, Applicable to Hydrofoils and Planing Craft," NSRDC Report 4121 (in preparation).

SERIES 62

The Series 62 parent form was designed at the Center and proved to have low resistance characteristics when compared to conventional stepless planing hulls which had previously been investigated. The length-beam ratios L_p/B_{pX} of the five hulls vary from 2 to 7. All have a constant deadrise of 12.5 degrees in the stern and identical body plans except for minor afterbody variations in the 2.0 and 3.06 length-beam ratio hulls. The transom width of the parent is 64 percent of the maximum chine width.

DL MODEL 62-A

A modification to the Series 62 form with $L_p/B_{pX} = 3.06$ has also been investigated. A finer bow and a broader transom- 98 percent of the maximum chine width-were achieved by terminating the original lines of Series 62 Model 4666 at 50 percent of its length and doubling the station spacing. This extension of the Series 62 investigation was performed by Davidson Laboratory, Stevens Institute of Technology, under ONR Contract N00014-67-A-0202-0014. The resistance data for this hull have not previously been published.

SERIES 65

Series 65 was originated as part of a hydrofoil craft research program, and the hull forms are also applicable as planing craft. This series consists of two basic hull forms; one is suitable for airplane-type foil systems, and the other for canard-type foil systems. These will be referred to in this report as Series 65-A and Series 65-B, respectively. The lines of the AG(EH) hydrofoil craft was selected as the parent form for Series GS-A, This configuration has a transom width about 35 percent of the maximum chine width. The parent for Series 65-B was derived by terminating the AG(EH) lines at 50 percent of its length and increasing the station spacing by a factor of $\sqrt{2}$. The transom width of Series 65-B is about 99 percent of the maximum chine width. Both Series 65-A and 65-B incorporate three variations in deadrise angle-16.3, 22.5, and 30.4 degrees at maximum chine beam location. The deadrise of these hulls is not constant in the stern. There are two or three length-beam ratio variations for each deadrise configuration in each series.

Models of the 22 hull forms compared in this report were constructed of various materials-wood, fiberglass, or polyurethane foam. All models were fitted with spray strips at the chine to promote water separation from the hull. Except for DL Model 62-A and Series 62 Model 4665 with approximate lengths of 3 and 4 feet, respectively, the length of the models ranged from 6 to 9 feet. Detailed model particulars are presented in Table I and in Figures 1-4.

MODEL EXPERIMENTS

The resistance data for all hull forms were not obtained by the same experimental procedure nor at the same towing tank. The Series 62 resistance experiments were conducted at the Carderock facility of the Center with the models free to trim and towed in an arbitrary shaft line. Davidson Laboratory used the free-to-trim method at their towing tank to obtain the resistance of DL Model 62-A, but the hull was towed horizontally through the center of gravity. The Series 65-A and 65-B experiments were performed at the Langley Field facility of the Center utilizing a captive model technique with the models allowed freedom only to heave. These three types of experimental techniques are discussed by Hubble.³

CRITERIA FOR COMPARISON

Since the initial resistance data represent not only a variety of experimental techniques but also various speeds and loading conditions, it was necessary to establish a basis for comparison of the hull forms. The Series 62 and 65 data were therefore converted to the format of a free-to-trim hull towed horizontally through the center of gravity. This seemed preferable for general usage to the "towed-in-shaftline" form since it eliminates the consideration of shaft angle and results in the hydrodynamic lift being equal to the boat weight. The procedure for conversion of the data utilizing the equations of equilibrium has been well documented.³

The resistance and trimming characteristics of any planing hull form is essentially a function of speed v , load (or displacement volume ∇), and longitudinal center of gravity LCG. The resistance, of course, is also proportional to the absolute size of the hull which can be related to one primary dimension such as length L_p . Consequently, it is desirable to

³Hubble, E.N., "Correlation of Resistance Test Results from Fixed and Free-to-Trim Methods for a Dynamic Lift Craft (Model 4667)," NSRDC Report 3544 (Apr 1972).

establish nondimensional coefficients based on these parameters by which various hull forms may be compared. The following coefficients have been selected as the most useful for preliminary design purposes:

$$\text{Volume Froude number } F_{nV} = V / \sqrt{g \nabla^{1/3}}$$

$$\text{Slenderness ratio } L_p / \nabla^{1/3}$$

$$\text{LCG}/L_p$$

Data for each hull were interpolated* at selected values of these coefficients.

PRESENTATION OF DATA

Comparative data for Series 62, DL Model 62-A, Series 65-A, and Series 65-B are tabulated in Appendix A and presented in graphical form in Appendix B as a function of LCG/L_p for constant F_{nV} and $L_p / V^{1/3}$ values. Selected values of F_{nV} are 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, and 4.0. Series 62 data are tabulated at F_{nV} values of 4.5, 5.0, 5.5, and 6.0 but are not plotted since comparable data were not obtained with the Series 65 forms and these speeds are above normal operating conditions. Values of $L_p / V^{1/3}$ range from 4.0 to 10.0 in increments of 0.5. Data for all models, however, were not available for this entire span of $L_p / V^{1/3}$ because the loading conditions of the original experiments were based on different criteria. The LCG span is approximately 30 to 50 percent of L_p , measured from the transom (see Figure 5). It was not deemed necessary to interpolate the data for all hulls at the same LCG/L_p values. Resistance-weight ratio and trim are plotted as a function of LCG/L_p so that the optimum LCG position can be readily ascertained. Series 62 and DL Model 62-A data are presented at their respective experimental LCG conditions--five for each hull. Data for each Series 65 form are given at six LCG conditions selected to span the optimum location. The LCG of Series 65-A and 65-B were displaced by 2 percent of L_p to make the graphs easier to read.

The trim angles τ presented in the appendixes are the angle of attack of the after portion of the planing surfaces. Since the afterbody deadrise angles are not constant, the keel profile at the stern was selected as the trim angle reference (see Figure 5). For Series 62, DL Model 62-A, and Series 65-B, the hulls are at zero trim when the baseline is parallel to the waterline. This is not true for Series 65-A, however, due to the rise of the stern portion above the baseline.

*Third-degree Lagrange interpolation was used in all cases. Extrapolation was allowed only within a 2-percent band outside the original data.

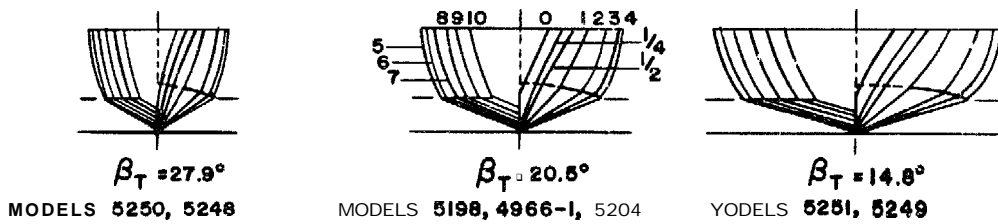
Model resistance has been expanded to ship scale by using the Schoenherr friction line. The effective length used for Reynolds number was the mean of the wetted keel and wetted chine lengths. The data in Appendix A are presented as resistance-weight R/W (or resistance-lift) ratios for boats of 1000, 10000, 100000, and 1000000-pound weights in sea-water at 59 F. Correlation allowances C_A of 0.0 and 0.0004 were used. The purpose of this array of eight R/W values for each condition is to facilitate interpolation for any desired boat weight and C_A . Wetted lengths and wetted areas are also provided in nondimensional form in case a more accurate projection is required. The resistance-weight ratios plotted in Appendix I3 are for a 100000-pound boat with a C_A of 0.

SUMMARY

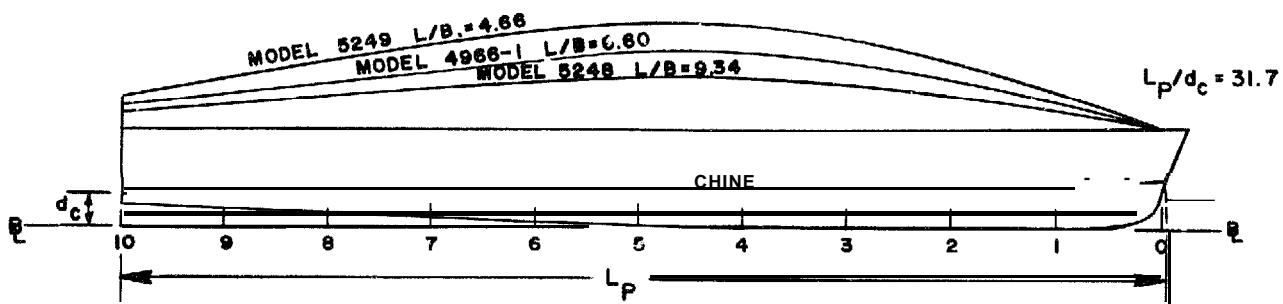
The purpose of this report is to provide a systematic compilation of the Series 62 and Series 65 resistance data in the form of a working document for the designer of planing craft. No attempt is made to analyze these data for the influence on performance of such parameters as hull geometry, hull loading, or distribution of hull loading. It is intended that such analyses will be the subject of future publication(s) with this report as the foundation.

TABLE 1 ~ HULL CHARACTERISTICS

| | Mdel | L_p ft | A_p ft ² | δ_{PA} ft | B_{PT} ft | B_{PX} ft | L_p B_{PA} | $\frac{L_p}{B_{PX}}$ | B_{PX} B_{PA} | B_{PT} B_{PX} | \bar{x}_p \bar{x} | β_{PT} deg | β_T deg |
|-------------|--------|-------------|--------------------------|---------------------|----------------|----------------|-------------------|----------------------|----------------------|----------------------|--------------------------|---------------------|------------------|
| Series 65-A | 5251 | 6.105 | 8.19 | 1.341 | 0.648 | 1.852 | 4.55 | 3.30 | 1.38 | 0.35 | 0.496 | 16.0 | 14.8 |
| | 5249 | 8.635 | 11.58 | 1.341 | 0.648 | 1.852 | 6.44 | 4.66 | 1.38 | 0.35 | 0.496 | 16.0 | 14.8 |
| | 5198 | 7.302 | 8.28 | 1.134 | 0.548 | 1.566 | 6.44 | 4.66 | 1.38 | 0.35 | 0.496 | 22.1 | 20.5 |
| | 4966-1 | 8.635 | 8.19 | 0.949 | 0.458 | 1.309 | 9.10 | 6.60 | 1.38 | 0.35 | 0.496 | 22.1 | 20.5 |
| | 5204 | 8.635 | 5.79 | 0.671 | 0.324 | 0.925 | 12.87 | 9.34 | 1.38 | 0.35 | 0.496 | 22.1 | 20.5 |
| | 5250 | 8.635 | 8.19 | 0.949 | 0.458 | 1.309 | 9.10 | 6.60 | 1.38 | 0.35 | 0.496 | 29.9 | 27.9 |
| | 5248 | 8.635 | 5.79 | 0.671 | 0.324 | 0.925 | 12.87 | 9.34 | 1.38 | 0.35 | 0.496 | 29.9 | 27.9 |
| Series 65-B | 5237 | 6.142 | 11.85 | 1.929 | 2.600 | 2.613 | 3.18 | 2.35 | 1.36 | 0.99 | 0.397 | 21.2 | 16.3 |
| | 5240 | 6.142 | 8.38 | 1.364 | 1.838 | 1.852 | 4.50 | 3.32 | 1.36 | 0.99 | 0.397 | 21.2 | 16.3 |
| | 5239 | 8.687 | 11.85 | 1.364 | 1.838 | 1.852 | 6.36 | 4.69 | 1.36 | 0.99 | 0.397 | 21.2 | 16.3 |
| | 5186 | 6.14; | 8.38 | 1.364 | 1.838 | 1.852 | 4.50 | 3.32 | 1.36 | 0.99 | 0.397 | 28.7 | 22.5 |
| | 5184 | 6.142 | 5.92 | 0.965 | 1.300 | 1.309 | 6.36 | 4.69 | 1.36 | 0.99 | 0.397 | 28.7 | 22.5 |
| | 5167 | 8.687 | 8.38 | 0.965 | 1.300 | 1.309 | 9.00 | 6.64 | 1.36 | 0.99 | 0.397 | 28.7 | 22.5 |
| | 5236 | 6.142 | 5.92 | 0.965 | 1.300 | 1.309 | 6.36 | 4.69 | 1.36 | 0.99 | 0.397 | 37.4 | 30.4 |
| | 5208 | 8.687 | 8.38 | 0.965 | 1.300 | 1.309 | 9.00 | 6.64 | 1.36 | 0.99 | 0.397 | 37.4 | 30.4 |
| | 5238 | 8.687 | 5.92 | 0.682 | 0.919 | 0.925 | 12.73 | 9.38 | 1.36 | 0.99 | 0.397 | 37.4 | 30.4 |
| Series 62 | 4665 | 3.912 | 6.47 | 1.654 | 1.565 | 1.956 | 2.36 | 2.00 | 1.18 | 0.80 | 0.475 | 13.0 | 12.5 |
| | 4666 | 5.987 | 9.72 | 1.623 | 1.386 | 1.956 | 3.69 | 3.06 | 1.21 | 0.71 | 0.482 | 13.0 | 12.5 |
| | 4667-1 | 8.000 | 12.80 | 1.600 | 1.250 | 1.956 | 5.00 | 4.09 | 1.22 | 0.64 | 0.488 | 13.0 | 12.5 |
| | 4668 | 8.000 | 9.52 | 1.190 | 0.934 | 1.455 | 6.72 | 5.50 | 1.22 | 0.64 | 0.488 | 13.0 | 12.5 |
| | 4669 | 8.000 | 7.48 | 0.935 | 0.734 | 1.143 | 8.56 | 7.00 | 1.22 | 0.64 | 0.488 | 13.0 | 12.5 |
| DL 62-A | 2.994 | 2.38 | 0.795 | 0.958 | 0.978 | 3.77 | 3.06 | 1.23 | 0.98 | 0.424 | 20.0 | 13.0 | |



MODEL 5204: $L_P/B_{PX} = 9.34$, $L_P/d_c = 46.0$



Note: $L/B = L_P/B_{PX}$

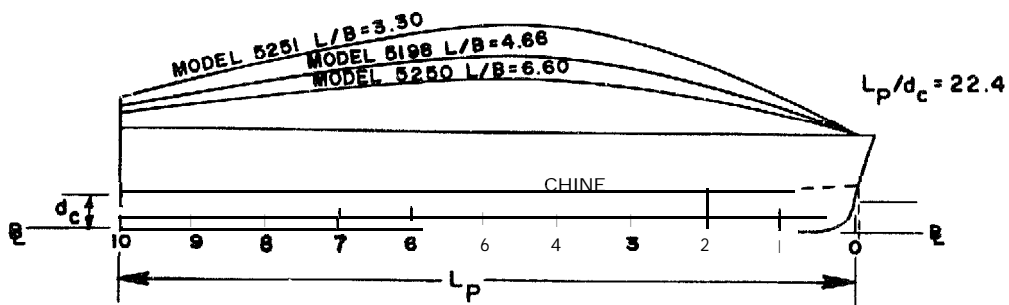


Figure 1 - Lines and Body Plans of Series 65-A Hulls

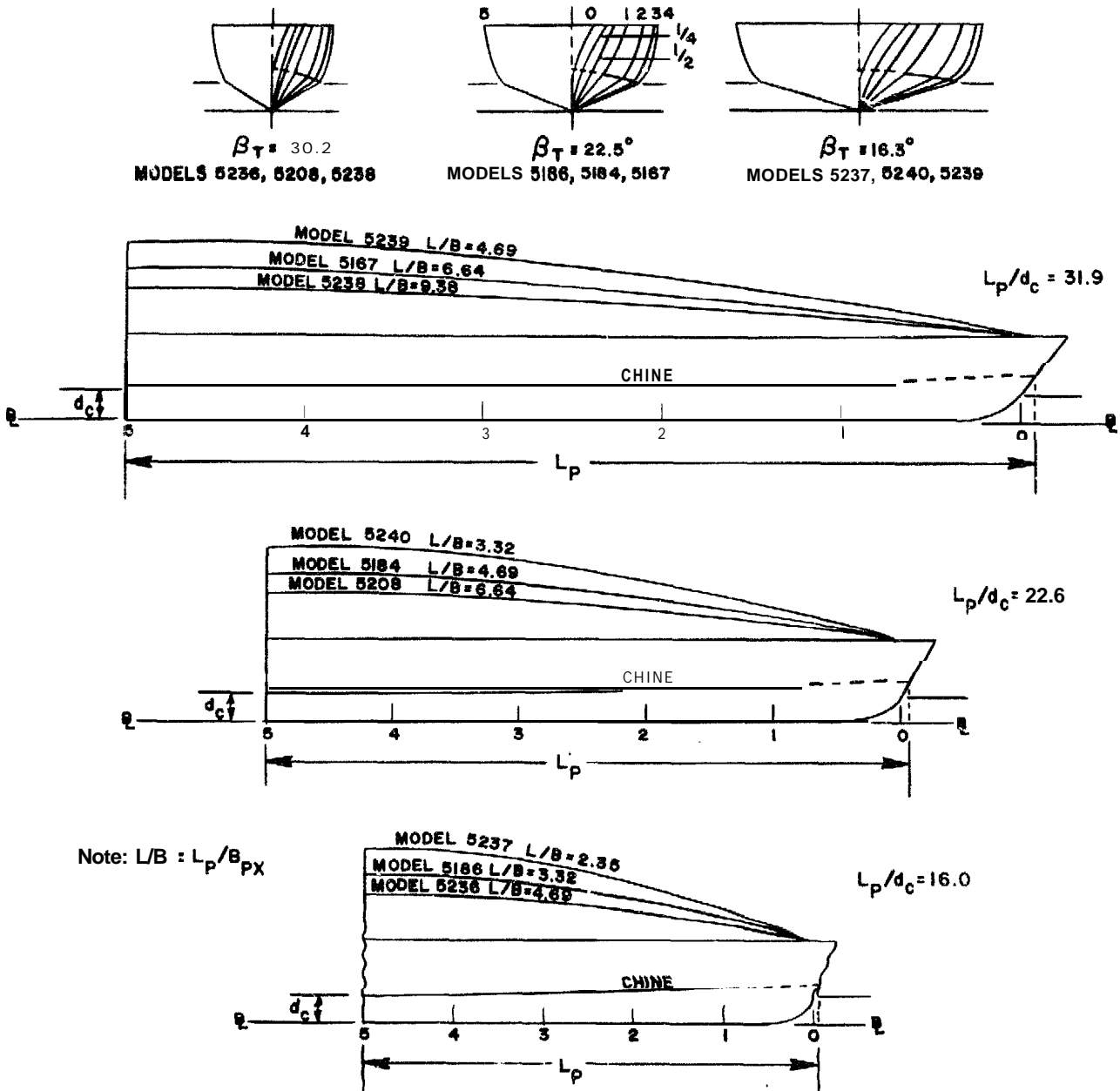


Figure 2 - Lines and Body Plans of Series 65-B Hulls

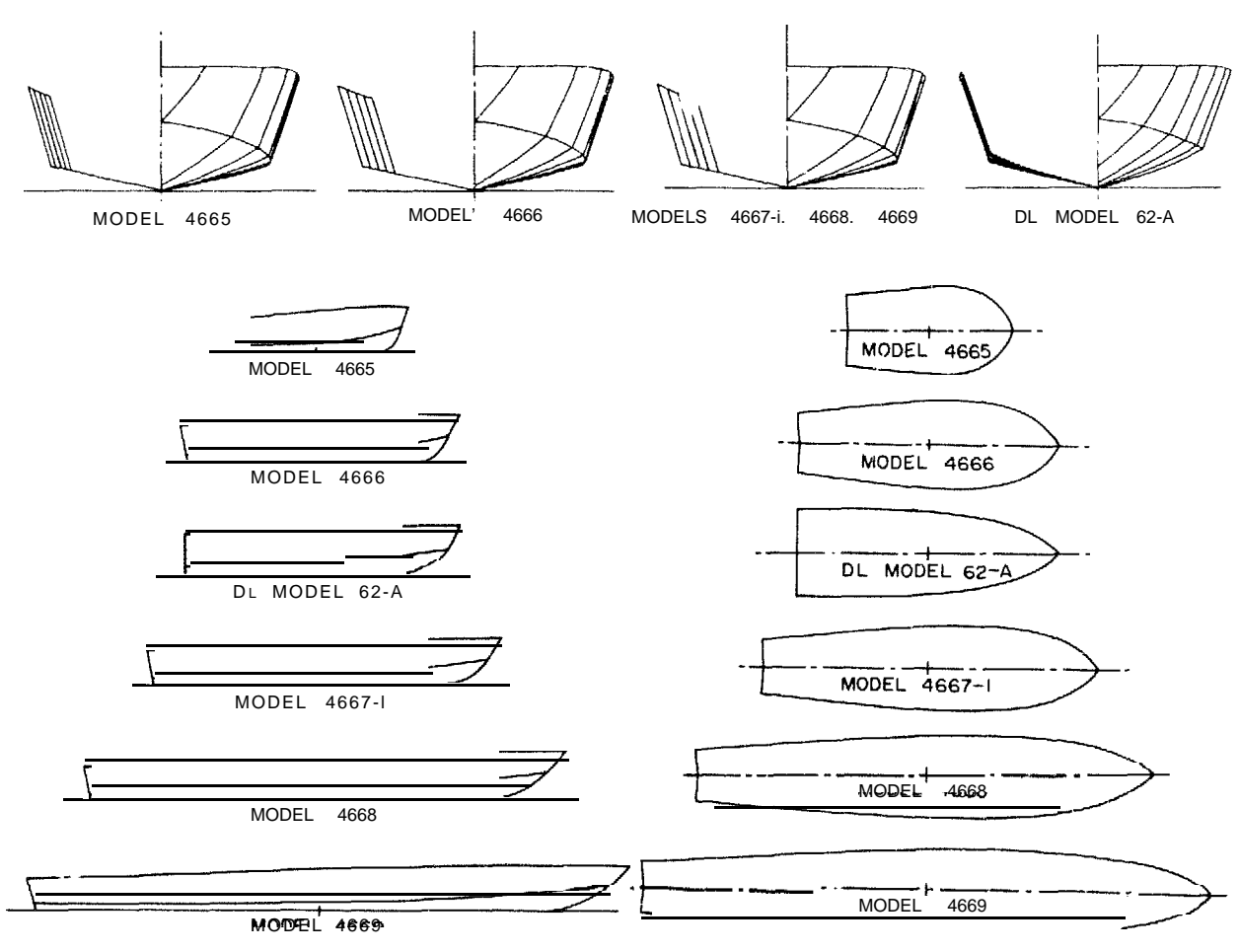


Figure 3 -- Lines and Body Plans of Series 62 Mulls and DL Model 62-A

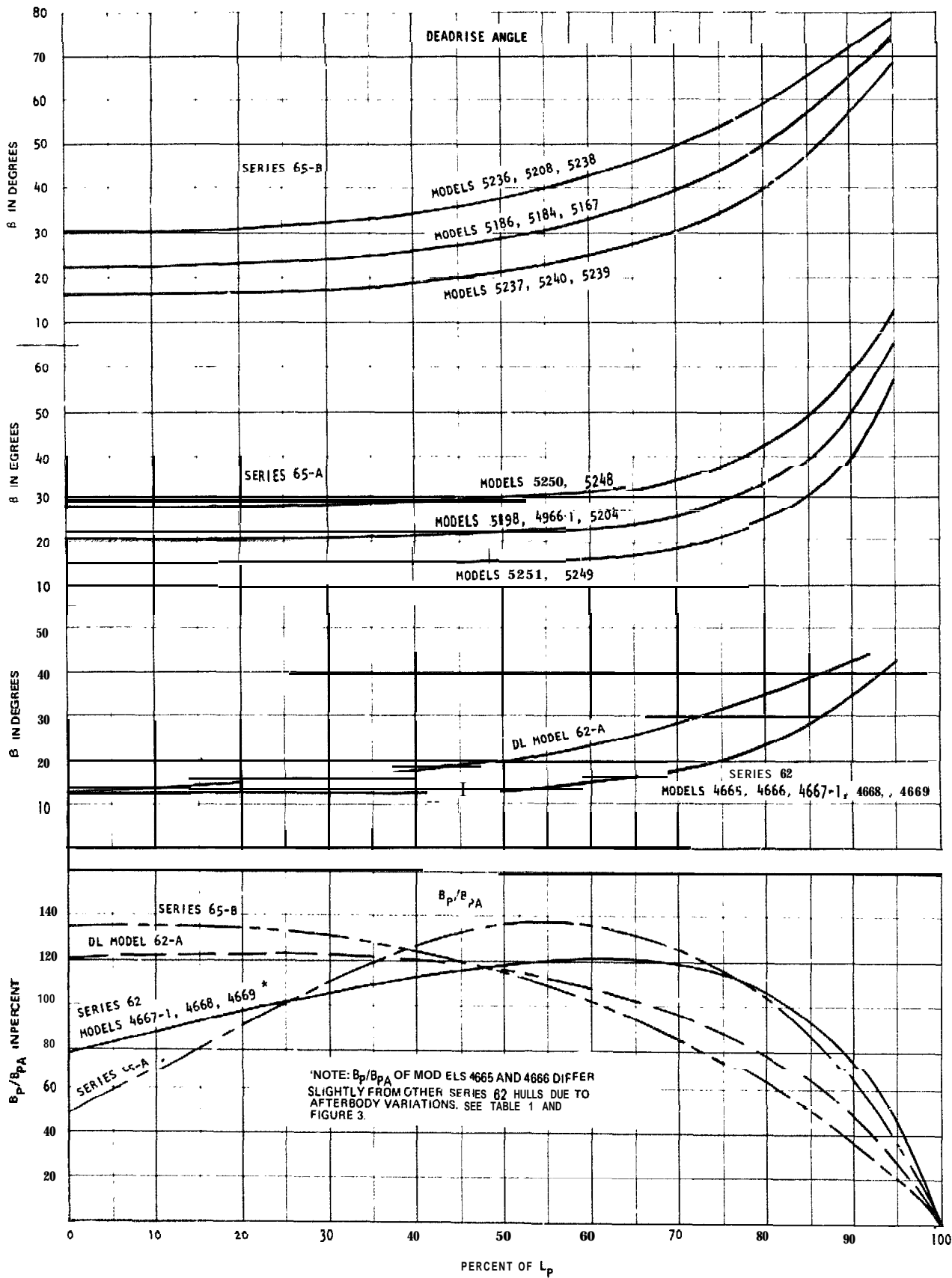
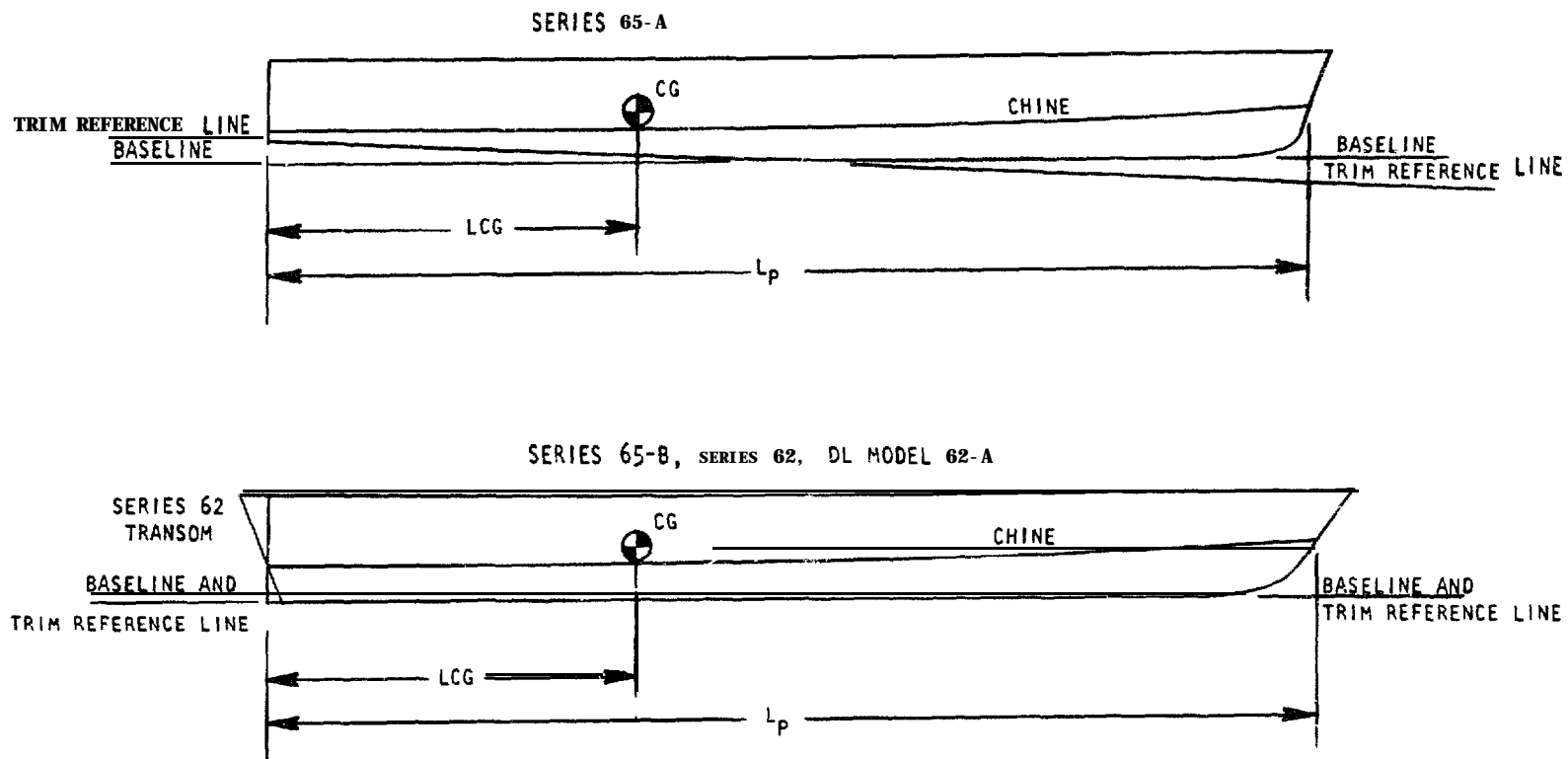


Figure 4 -- Form Characteristic Curves

| Models | Angle Between Trim Reference Line And Baseline |
|--------------------|--|
| 5251, 5198, 5250 | 3.53 Deg |
| 5249, 4966-1, 5248 | 2.50 Deg |
| 5204 | 1.77 Deg |
| All Others | 0 Deg |



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Figure 5 – LCG and Trim Reference
 (Sketches are intended only to indicate reference lines. Profiles of Series 65-B and Series 62 are **not** identical.)

MISSING ON MICROFILM -- DUMMY PAGE 12

APPENDIX A
TABLES OF RESISTANCE DATA

Resistance predictions are for boats operating in seawater at a temperature of 59 F.

$$p = 1.9905 \text{ lb} \times \text{sec}^2/\text{ft}^4$$

$$\nu = 1.2817 \times 10^{-5} \text{ ft}^2/\text{sec}$$

$$g = 32.174 \text{ ft}/\text{sec}^2$$

Predictions are for boats towed horizontally through the center of gravity. Therefore, resistance/lift = resistance/weight.

Trim is angle of attack of after portion of planing bottom; see Figure 5.

Absolute speeds associated with $F_n \nabla$ for various boat weights are tabulated below.

| Ship Speed in Knots | | | | |
|---------------------|-------------|--------------|---------------|----------------|
| $F_n \nabla$ | W=Δ=1000 lb | W=Δ=10000 lb | W=Δ=100000 lb | W=Δ=1000000 lb |
| 1.0 | 5.31 | 7.80 | 11.45 | 16.80 |
| 1.25 | 6.64 | 9.75 | 14.31 | 21.00 |
| 1.5 | 7.97 | 11.70 | 17.17 | 25.20 |
| 1.75 | 9.30 | 13.64 | 20.03 | 29.40 |
| 2.0 | 10.63 | 15.60 | 22.89 | 33.60 |
| 2.5 | 13.28 | 19.50 | 28.62 | 42.00 |
| 3.0 | 15.94 | 23.40 | 34.34 | 50.41 |
| 3.5 | 18.60 | 27.30 | 40.06 | 58.81 |
| 4.0 | 21.25 | 31.19 | 45.79 | 67.21 |
| 4.5 | 23.91 | 35.09 | 51.51 | 75.61 |
| 5.0 | 26.57 | 38.99 | 57.23 | 84.01 |
| 5.5 | 29.22 | 42.89 | 62.96 | 92.41 |
| 6.0 | 31.88 | 46.79 | 68.68 | 100.81 |

RESISTANCE DATA SERIES 65-4 MODEL 5251

LP/BPK = 3.30 DEARRISE ANGLE = 14.8 DEG FHQ = 1.80

WFLIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000 100 1000 10000 a 40000 1000000

LP/V(1/3) = 5.9 LP (FT) = 13.7 29.6 6X.8 137.5 13.7 29.6 63.4 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 4.28 | .856 | .788 | 6.47 | .0810 | .0794 | .0781 | .0771 | .0823 | .0807 | .0794 | .0784 |
| .400 | 1.77 | .970 | .799 | 7.86 | .0869 | .0849 | .0833 | .0821 | .0884 | .0865 | .0849 | .0837 |
| .440 | -0.03 | .990 | .682 | 7.67 | .0837 | .0817 | .0802 | .0790 | .0852 | .0832 | .0817 | .0805 |
| .480 | -2.03 | 1.000 | .515 | 8.36 | .0868 | .0847 | .0830 | .0816 | .0875 | .0853 | .0837 | .0825 |
| .520 | -3.64 | 1.070 | .672 | 7.09 | .0633 | .0615 | .0601 | .0590 | .0647 | .0629 | .0615 | .0604 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 2.47 | .905 | .602 | 8.01 | .0590 | .0569 | .0554 | .0541 | .0606 | .0585 | .0570 | .0557 |
| .400 | .80 | .979 | .667 | 8.72 | .0474 | .0452 | .0435 | .0421 | .0491 | .0469 | .0452 | .0439 |
| .440 | -0.53 | .995 | .477 | 7.64 | .0447 | .0427 | .0412 | .0400 | .0462 | .0443 | .0427 | .0415 |
| .480 | -2.03 | .993 | .491 | 8.67 | .0461 | .0439 | .0422 | .0408 | .0479 | .0456 | .0439 | .0425 |
| .520 | -3.63 | 1.000 | .474 | 1.29 | .0554 | .0537 | .0521 | .0510 | .0575 | .0554 | .0537 | .0524 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.97 | .763 | .554 | 7.35 | .0773 | .0754 | .0739 | .0728 | .0788 | .0769 | .0754 | .0743 |
| .360 | 1.27 | .934 | .573 | 9.37 | .0424 | .0401 | .0382 | .0360 | .0443 | .0419 | .0401 | .0387 |
| .400 | .12 | .975 | .490 | 9.02 | .0370 | .0348 | .0330 | .0316 | .0389 | .0362 | .0348 | .0334 |
| .440 | -1.05 | .996 | .418 | 8.86 | .0357 | .0335 | .0317 | .0307 | .0375 | .0352 | .0335 | .0321 |
| .480 | -2.24 | .991 | .461 | 9.57 | .0384 | .0360 | .0341 | .0326 | .0407 | .0379 | .0360 | .0345 |
| .520 | -3.53 | 1.000 | .500 | 9.26 | .0476 | .0453 | .0435 | .0421 | .0495 | .0471 | .0453 | .0439 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 1.86 | .849 | .470 | 9.14 | .0424 | .0400 | .0382 | .0368 | .0442 | .0419 | .0401 | .0386 |
| .360 | .74 | .925 | .462 | 10.21 | .0351 | .0325 | .0305 | .0289 | .0371 | .0345 | .0325 | .0310 |
| .400 | -0.35 | .975 | .365 | 9.53 | .0316 | .0292 | .0273 | .0258 | .0335 | .0311 | .0292 | .0277 |
| .440 | -1.34 | .988 | .363 | 9.81 | .0304 | .0284 | .0264 | .0249 | .0328 | .0303 | .0284 | .0269 |
| .480 | -2.31 | .988 | .398 | 10.30 | .0330 | .0304 | .0284 | .0269 | .0351 | .0325 | .0305 | .0289 |
| .520 | -3.30 | .999 | .407 | 10.14 | .0397 | .0367 | .0348 | .0332 | .0413 | .0388 | .0368 | .0352 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | .29 | .823 | .353 | 10.97 | .0318 | .0291 | .0270 | .0253 | .0367 | .0339 | .0317 | .0300 |
| .360 | -0.66 | .978 | .297 | 10.14 | .0289 | .0264 | .0244 | .0228 | .0310 | .0284 | .0264 | .0249 |
| .400 | -1.51 | .987 | .305 | 10.46 | .0274 | .0247 | .0227 | .0211 | .0295 | .0268 | .0248 | .0232 |
| .440 | -2.76 | .986 | .294 | 10.77 | .0285 | .0258 | .0237 | .0220 | .0306 | .0279 | .0258 | .0241 |
| .520 | -3.20 | .993 | .217 | 10.71 | .0333 | .0306 | .0285 | .0268 | .0355 | .0327 | .0306 | .0289 |

LP/V(1/3) = 8.0 LP (FT) = 20.1 43.1 92.8 200.0 20.1 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | .97 | .830 | .341 | 11.49 | .0348 | .0319 | .0297 | .0279 | .0371 | .0347 | .0319 | .0302 |
| .400 | -0.87 | .973 | .284 | 11.87 | .0265 | .0239 | .0217 | .0200 | .0287 | .0260 | .0239 | .0222 |
| .440 | -1.64 | .983 | .249 | 11.17 | .0244 | .0216 | .0194 | .0177 | .0266 | .0238 | .0217 | .0200 |
| .480 | -2.37 | .985 | .203 | 11.32 | .0247 | .0219 | .0197 | .0179 | .0270 | .0241 | .0219 | .0202 |
| .520 | -3.10 | .999 | .087 | 11.74 | .0244 | .0215 | .0233 | .0215 | .0307 | .0275 | .0255 | .0238 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.4 98.6 212.5 21.2 45.4 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | .53 | .842 | .281 | 11.87 | .0327 | .0297 | .0274 | .0256 | .0351 | .0321 | .0294 | .0279 |
| .360 | -0.28 | .923 | .243 | 11.58 | .0283 | .0254 | .0232 | .0214 | .0306 | .0277 | .0255 | .0237 |
| .400 | -1.00 | .964 | .192 | 11.80 | .0245 | .0217 | .0195 | .0177 | .0269 | .0240 | .0218 | .0200 |
| .440 | -1.69 | .979 | .131 | 11.89 | .0221 | .0192 | .0169 | .0151 | .0245 | .0215 | .0192 | .0174 |
| .480 | -2.35 | .985 | .020 | 11.89 | .0220 | .0190 | .0166 | .0148 | .0243 | .0213 | .0190 | .0172 |
| .520 | -3.01 | .988 | .020 | 11.74 | .0249 | .0218 | .0195 | .0176 | .0272 | .0242 | .0219 | .0200 |

RESISTANCE DATA SERIES 65-A MODEL 5251

LP/RY = 1.18

DEPARTURE ANGLE = 14.8 DEG

FWD = 1.25

WEIGHT = LIFT (LR, SCAMATEP) = 1700 10000 100000 1000000 1500 10000 170000 1000000

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 64.8 137.5 13.7 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 4.00 | 3.97 | .871 | .794 | 6.58 | .1066 | .1041 | .1021 | .1006 | .1076 | .1061 | .1042 | .1027 | |
| 4.40 | 1.80 | .971 | .844 | 7.75 | .0876 | .0848 | .0825 | .0807 | .0901 | .0872 | .0849 | .0832 | |
| 4.80 | -0.02 | .989 | .814 | 7.76 | .0866 | .0837 | .0814 | .0796 | .0890 | .0861 | .0838 | .0821 | |
| 5.20 | -2.07 | 1.070 | .601 | 8.77 | .1010 | .0978 | .0953 | .0933 | .1026 | .1004 | .0979 | .0959 | |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.4 69.6 150.0 15.0 32.4 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 4.00 | 2.47 | .909 | .676 | 8.23 | .0895 | .0860 | .0840 | .0821 | .0921 | .0880 | .0866 | .0847 | |
| 4.40 | 0.07 | .978 | .762 | 8.97 | .0756 | .0721 | .0694 | .0675 | .0772 | .0740 | .0727 | .0703 | |
| 4.80 | -0.57 | .995 | .526 | 7.42 | .0752 | .0724 | .0702 | .0684 | .0775 | .0747 | .0726 | .0708 | |
| 5.20 | -2.03 | .994 | .404 | 6.45 | .0847 | .0805 | .0776 | .0753 | .0872 | .0835 | .0806 | .0783 | |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 182.5 16.2 35.0 75.4 182.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.60 | 3.97 | .767 | .704 | 7.77 | .1038 | .1011 | .0989 | .0972 | .1061 | .1034 | .1012 | .0995 | |
| 4.00 | 1.52 | .924 | .640 | 6.57 | .0894 | .0867 | .0836 | .0814 | .0924 | .0893 | .0865 | .0843 | |
| 4.40 | 0.16 | .977 | .567 | 9.01 | .0606 | .0572 | .0546 | .0525 | .0634 | .0600 | .0574 | .0554 | |
| 4.80 | -1.07 | .987 | .475 | 8.96 | .0629 | .0595 | .0560 | .0547 | .0647 | .0613 | .0585 | .0575 | |
| 5.20 | -2.44 | .992 | .318 | 10.36 | .0733 | .0693 | .0662 | .0637 | .0745 | .0725 | .0694 | .0679 | |

LP/W(1/3) = 7.0 LP (FT) = 17.4 37.7 81.2 175.0 17.4 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.60 | 2.28 | .825 | .564 | 6.24 | .0723 | .0699 | .0662 | .0641 | .0752 | .0718 | .0691 | .0669 | |
| 4.00 | 0.78 | .932 | .544 | 10.70 | .0544 | .0515 | .0474 | .0450 | .0578 | .0539 | .0508 | .0483 | |
| 4.40 | -0.41 | .979 | .376 | 9.41 | .0517 | .0481 | .0453 | .0431 | .0547 | .0511 | .0483 | .0461 | |
| 4.80 | -1.45 | .989 | .272 | 9.94 | .0543 | .0504 | .0474 | .0451 | .0573 | .0535 | .0505 | .0482 | |
| 5.20 | -2.44 | .989 | .272 | 10.65 | .0619 | .0579 | .0557 | .0532 | .0663 | .0622 | .0591 | .0566 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.20 | 3.32 | .711 | .529 | 7.85 | .0816 | .0806 | .0783 | .0765 | .0868 | .0831 | .0809 | .0789 | |
| 3.60 | 1.27 | .858 | .474 | 11.87 | .0543 | .0500 | .0467 | .0447 | .0540 | .0507 | .0484 | .0467 | |
| 4.00 | -0.21 | .944 | .358 | 11.21 | .0481 | .0439 | .0407 | .0381 | .0516 | .0474 | .0447 | .0416 | |
| 4.40 | -0.97 | .982 | .223 | 9.01 | .0447 | .0429 | .0400 | .0376 | .0497 | .0460 | .0431 | .0407 | |
| 4.80 | -1.44 | .988 | .199 | 6.87 | .0497 | .0446 | .0417 | .0394 | .0514 | .0474 | .0447 | .0424 | |
| 5.20 | -2.57 | .986 | .204 | 10.16 | .0549 | .0519 | .0489 | .0466 | .0581 | .0547 | .0512 | .0488 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.20 | 1.71 | .788 | .416 | 11.18 | .0657 | .0615 | .0582 | .0556 | .0692 | .0657 | .0617 | .0591 | |
| 3.60 | -0.87 | .851 | .768 | 12.58 | .0405 | .0369 | .0341 | .0318 | .0434 | .0407 | .0381 | .0352 | |
| 4.00 | -0.21 | .943 | .735 | 11.11 | .0349 | .0301 | .0268 | .0242 | .0377 | .0345 | .0318 | .0297 | |
| 4.40 | -1.04 | .978 | .677 | 10.18 | .0375 | .0337 | .0307 | .0284 | .0407 | .0374 | .0348 | .0325 | |
| 4.80 | -1.87 | .985 | .187 | 6.87 | .0434 | .0399 | .0369 | .0346 | .0467 | .0437 | .0408 | .0377 | |
| 5.20 | -2.57 | .984 | .189 | 10.14 | .0444 | .0406 | .0376 | .0353 | .0477 | .0447 | .0418 | .0384 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.20 | 0.54 | .833 | .280 | 11.87 | .0494 | .0435 | .0397 | .0367 | .0525 | .0475 | .0438 | .0407 | |
| 3.60 | -0.74 | .867 | .749 | 12.74 | .0453 | .0407 | .0370 | .0342 | .0491 | .0445 | .0409 | .0385 | |
| 4.00 | -0.57 | .942 | .177 | 11.17 | .0407 | .0360 | .0327 | .0301 | .0437 | .0395 | .0367 | .0336 | |
| 4.40 | -1.24 | .973 | .151 | 10.67 | .0416 | .0366 | .0334 | .0300 | .0439 | .0399 | .0374 | .0341 | |
| 4.80 | -1.87 | .982 | .175 | 10.48 | .0444 | .0395 | .0362 | .0301 | .0474 | .0439 | .0414 | .0384 | |
| 5.20 | -2.47 | .984 | .114 | 10.60 | .0434 | .0394 | .0363 | .0338 | .0467 | .0427 | .0394 | .0371 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRIM) | LP | LP | W(2/3) | | | | | | | | | |
| 3.20 | 0.87 | .775 | .757 | 12.74 | .0377 | .0355 | .0319 | .0290 | .0461 | .0434 | .0404 | .0379 | |
| 3.60 | -0.81 | .876 | .190 | 12.15 | .0399 | .0364 | .0327 | .0291 | .0447 | .0407 | .0374 | .0348 | |
| 4.00 | -0.71 | .949 | .171 | 11.88 | .0353 | .0316 | .0282 | .0255 | .0406 | .0367 | .0331 | .0301 | |
| 4.40 | -1.74 | .964 | .147 | 11.45 | .0369 | .0327 | .0294 | .0267 | .0444 | .0403 | .0370 | .0341 | |
| 4.80 | -1.87 | .980 | .124 | 11.71 | .0361 | .0319 | .0286 | .0260 | .0407 | .0364 | .0327 | .0296 | |
| 5.20 | -2.47 | .988 | .071 | 11.77 | .0374 | .0332 | .0299 | .0273 | .0440 | .0398 | .0364 | .0332 | |

RESISTANCE DATA SERIES 65-A MODEL 8251

LP/WT = 7.30 DEGREEWISE ANGLE = 14.3 DEG FWT = 1.75

W/FIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 13.7 29.6 65.8 137.5 13.7 29.6 65.8 137.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=1.0079 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.41 | .962 | .736 | 7.02 | .1212 | .1163 | .1126 | .1095 | .1255 | .1206 | .1169 | .1138 | .1108 |
| .520 | -1.53 | .998 | .909 | 8.08 | .1335 | .1291 | .1239 | .1206 | .1344 | .1331 | .1299 | .1255 | |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.7 69.6 150.0 15.0 32.7 69.6 150.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 2.98 | .861 | .849 | 8.96 | .1189 | .1124 | .1083 | .1053 | .1212 | .1154 | .1126 | .1096 | .1066 |
| .520 | -1.53 | .988 | .852 | 7.07 | .1170 | .1114 | .1077 | .1045 | .1214 | .1166 | .1125 | .1093 | .1063 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.8 75.4 162.5 16.2 35.8 75.4 162.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=1.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 3.49 | .766 | .812 | 8.68 | .1208 | .1161 | .1125 | .1096 | .1249 | .1202 | .1164 | .1137 | .1107 |
| .520 | -1.43 | .988 | .783 | 8.88 | .1068 | .1024 | .9853 | .9413 | .1127 | .1081 | .1043 | .1013 | .9822 |

LP/W(1/3) = 7.0 LP (FT) = 17.4 37.7 81.2 175.0 17.4 37.7 81.2 175.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=1.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.74 | .937 | .841 | 8.90 | .0947 | .0906 | .0750 | .0720 | .0922 | .0861 | .0813 | .0775 | .0737 |
| .520 | -1.10 | .988 | .866 | 11.00 | .0997 | .0924 | .0865 | .0819 | .1065 | .0991 | .0933 | .0886 | .0839 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.88 | .870 | .813 | 10.14 | .0650 | .0747 | .0729 | .0680 | .0912 | .0844 | .0791 | .0740 | .0690 |
| .520 | -1.46 | .987 | .830 | 10.19 | .0949 | .0891 | .846 | .0793 | .1022 | .0953 | .0909 | .0856 | .0803 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.33 | .887 | .843 | 10.30 | .0814 | .0744 | .0690 | .0646 | .0877 | .0807 | .0753 | .0709 | .0665 |
| .520 | -1.62 | .985 | .840 | 8.85 | .0923 | .0812 | .0714 | .0674 | .0979 | .0917 | .0849 | .0781 | .0713 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.09 | .795 | .846 | 11.11 | .0709 | .0725 | .0666 | .0619 | .0868 | .0791 | .0734 | .0687 | .0640 |
| .520 | -1.73 | .987 | .863 | 8.81 | .0877 | .0812 | .0765 | .0727 | .0974 | .0916 | .0849 | .0781 | .0713 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.82 | .697 | .833 | 10.80 | .0777 | .0699 | .0643 | .0599 | .0874 | .0781 | .0707 | .0663 | .0619 |
| .520 | -1.31 | .988 | .807 | 9.59 | .0722 | .0649 | .0592 | .0547 | .0887 | .0795 | .0748 | .0682 | .0612 |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.40 | .785 | .823 | 10.80 | .0744 | .0673 | .0615 | .0564 | .0814 | .0741 | .0642 | .0615 | .0573 |
| .520 | -1.67 | .987 | .807 | 11.25 | .0726 | .0650 | .0598 | .0543 | .0895 | .0791 | .0749 | .0689 | .0611 |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(1/3) | | | | | | | | | |
| .400 | 1.10 | .754 | .825 | 10.56 | .0691 | .0621 | .0564 | .0519 | .0768 | .0685 | .0620 | .0583 | .0546 |
| .520 | -1.45 | .986 | .804 | 11.57 | .0745 | .0649 | .0574 | .0521 | .0823 | .0717 | .0651 | .0594 | .0540 |

RESISTANCE DATA SERIES 65-8 MODEL 5251

LP/DPX = 3.0° DEPARTURE ANGLE = 14.8 DEG FWD = 2.0°

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000 10000 100000 100000

LP/W(L/3) = 5.4 LP (FT) = 13.7 20.4 43.8 137.4 13.7 20.4 43.8 137.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 3.12 | .475 | .772 | 6.01 | .1446 | .1401 | .1362 | .1329 | .1504 | .1451 | .1410 | .1377 | |
| .420 | .20 | .442 | .777 | 7.64 | .1457 | .1401 | .1350 | .1309 | .1524 | .1462 | .1411 | .1370 | |

LP/W(L/3) = 6.0 LP (FT) = 15.0 22.3 49.4 150.0 15.0 22.3 49.4 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 1.87 | .494 | .648 | 7.44 | .1426 | .1362 | .1311 | .1270 | .1461 | .1411 | .1371 | .1339 | |
| .420 | -.72 | .447 | .779 | 8.69 | .1339 | .1269 | .1215 | .1172 | .1402 | .1334 | .1280 | .1237 | |

LP/W(L/3) = 6.5 LP (FT) = 16.2 25.0 75.4 162.5 16.2 25.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 2.47 | .493 | .561 | 7.06 | .1449 | .1375 | .1324 | .1282 | .1453 | .1391 | .1347 | .1304 | |
| .420 | -.97 | .426 | .644 | 8.07 | .1117 | .1048 | .0990 | .0932 | .1184 | .1112 | .1052 | .1004 | |
| .420 | -.53 | .442 | .729 | 9.19 | .1277 | .1200 | .1139 | .1091 | .1349 | .1273 | .1213 | .1164 | |

LP/W(L/3) = 7.0 LP (FT) = 17.5 27.7 61.2 175.0 17.5 27.7 61.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 2.77 | .478 | .512 | 6.98 | .1445 | .1384 | .1335 | .1297 | .1445 | .1384 | .1335 | .1297 | |
| .420 | 1.76 | .455 | .557 | 8.79 | .0986 | .0909 | .0850 | .0802 | .1055 | .0979 | .0921 | .0873 | |
| .420 | -.20 | .463 | .608 | 9.82 | .1037 | .0958 | .0890 | .0833 | .1085 | .1003 | .0940 | .0885 | |
| .420 | -.99 | .407 | .687 | 11.71 | .1174 | .1096 | .1017 | .0958 | .1237 | .1159 | .1081 | .1024 | |

LP/W(L/3) = 7.5 LP (FT) = 18.7 30.4 87.0 187.5 18.7 30.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 3.30 | .457 | .496 | 6.49 | .1403 | .1321 | .1275 | .1233 | .1374 | .1295 | .1248 | .1204 | |
| .420 | 1.60 | .495 | .491 | 6.72 | .0949 | .0887 | .0830 | .0785 | .1025 | .0943 | .0897 | .0852 | |
| .420 | .66 | .483 | .570 | 9.88 | .0953 | .0870 | .0805 | .0752 | .1032 | .0947 | .0894 | .0832 | |
| .420 | -.53 | .474 | .643 | 12.00 | .0907 | .0825 | .0767 | .0725 | .1004 | .0911 | .0857 | .0802 | |
| .420 | -1.29 | .447 | .749 | 12.64 | .1137 | .1023 | .0938 | .0871 | .1230 | .1123 | .1033 | .0972 | |

LP/W(L/3) = 8.0 LP (FT) = 20.0 32.1 92.8 200.0 20.0 32.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 2.88 | .425 | .429 | 6.17 | .1340 | .1270 | .1215 | .1171 | .1304 | .1234 | .1189 | .1145 | |
| .420 | 1.06 | .415 | .471 | 9.41 | .0960 | .0880 | .0817 | .0766 | .1035 | .0955 | .0907 | .0841 | |
| .420 | .05 | .415 | .553 | 11.94 | .0874 | .0775 | .0697 | .0635 | .0969 | .0870 | .0803 | .0730 | |
| .420 | -.84 | .407 | .469 | 12.72 | .0823 | .0718 | .0634 | .0568 | .0924 | .0825 | .0756 | .0679 | |
| .420 | -1.48 | .404 | .474 | 11.79 | .1184 | .1073 | .0974 | .0900 | .1190 | .1077 | .1004 | .0935 | |

LP/W(L/3) = 8.5 LP (FT) = 21.2 35.8 94.6 212.5 21.2 35.8 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 3.01 | .419 | .399 | 7.59 | .1357 | .1280 | .1218 | .1176 | .1281 | .1204 | .1159 | .1115 | |
| .420 | 1.37 | .455 | .407 | 9.39 | .0937 | .0857 | .0793 | .0742 | .1012 | .0932 | .0880 | .0817 | |
| .420 | .55 | .418 | .439 | 11.22 | .0874 | .0789 | .0725 | .0666 | .0984 | .0899 | .0835 | .0756 | |
| .420 | -.14 | .403 | .443 | 12.39 | .0832 | .0732 | .0654 | .0584 | .0915 | .0815 | .0721 | .0651 | |
| .420 | -1.74 | .407 | .411 | 12.34 | .0910 | .0814 | .0731 | .0664 | .1017 | .0913 | .0831 | .0755 | |
| .420 | -1.50 | .400 | .492 | 10.96 | .1084 | .0990 | .0916 | .0857 | .1171 | .1077 | .1003 | .0944 | |

LP/W(L/3) = 9.0 LP (FT) = 22.5 38.5 104.4 225.0 22.5 38.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 2.19 | .454 | .354 | 8.96 | .1309 | .1230 | .1169 | .1120 | .1200 | .1120 | .1070 | .1020 | |
| .420 | 1.04 | .454 | .369 | 10.51 | .0910 | .0821 | .0754 | .0693 | .0994 | .0905 | .0834 | .0777 | |
| .420 | .15 | .447 | .343 | 12.71 | .0811 | .0704 | .0620 | .0552 | .0913 | .0806 | .0721 | .0654 | |
| .420 | -.53 | .427 | .297 | 13.77 | .0773 | .0654 | .0573 | .0500 | .0890 | .0774 | .0687 | .0610 | |
| .420 | -1.15 | .401 | .177 | 12.11 | .0901 | .0794 | .0717 | .0652 | .0944 | .0825 | .0731 | .0674 | |
| .420 | -1.84 | .407 | .109 | 10.86 | .1046 | .0932 | .0858 | .0820 | .1132 | .1039 | .0965 | .0906 | |

LP/W(L/3) = 9.5 LP (FT) = 23.7 41.2 110.2 237.4 23.7 41.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 1.76 | .454 | .329 | 10.07 | .1293 | .1206 | .1137 | .1082 | .1174 | .1094 | .1041 | .0993 | |
| .420 | .65 | .459 | .295 | 11.83 | .0807 | .0705 | .0626 | .0563 | .0901 | .0800 | .0721 | .0657 | |
| .420 | -.14 | .457 | .285 | 13.26 | .0742 | .0629 | .0540 | .0460 | .0844 | .0735 | .0646 | .0575 | |
| .420 | -.71 | .423 | .127 | 13.96 | .0761 | .0646 | .0556 | .0484 | .0827 | .0717 | .0623 | .0541 | |
| .420 | -1.21 | .404 | .053 | 12.33 | .0851 | .0744 | .0650 | .0584 | .0950 | .0847 | .0754 | .0682 | |
| .420 | -1.67 | .403 | .021 | 11.69 | .0974 | .0873 | .0794 | .0730 | .1068 | .0967 | .0887 | .0823 | |

LP/W(L/3) = 10.0 LP (FT) = 25.0 43.8 116.0 249.9 25.0 43.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 1.47 | .463 | .300 | 10.92 | .1284 | .1190 | .1124 | .1070 | .1152 | .1071 | .1017 | .0964 | |
| .420 | .77 | .493 | .145 | 12.49 | .0775 | .0659 | .0563 | .0495 | .0874 | .0759 | .0673 | .0615 | |
| .420 | -.14 | .472 | .046 | 13.23 | .0865 | .0750 | .0640 | .0568 | .0911 | .0795 | .0705 | .0643 | |
| .420 | -.74 | .414 | 0.000 | 13.29 | .0888 | .0772 | .0661 | .0580 | .0944 | .0827 | .0737 | .0674 | |
| .420 | -1.26 | .404 | 0.000 | 13.14 | .0940 | .0825 | .0714 | .0642 | .0985 | .0867 | .0776 | .0717 | |
| .420 | -1.70 | .400 | 0.000 | 13.43 | .0944 | .0837 | .0724 | .0651 | .0982 | .0864 | .0772 | .0713 | |

RESISTANCE DATA SERIES 65-A MODEL 5291

LP/PMX = 3.30 DEADRISE ANGLE = 14.8 DEG FNV = 2.50

WEIGHT = LIFT (LB, SPANATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 13.0 32.1 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 3.94 | .694 | .673 | 5.31 | .1400 | .1414 | .1362 | .1318 | .1555 | .1404 | .1429 | .1384 | |
| .440 | 2.94 | .778 | .653 | 5.91 | .1442 | .1364 | .1302 | .1253 | .1488 | .1437 | .1376 | .1327 | |
| .520 | 1.76 | .881 | .652 | 6.94 | .1566 | .1476 | .1405 | .1347 | .1653 | .1583 | .1492 | .1434 | |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .400 | 3.97 | .649 | .627 | 5.54 | .1404 | .1330 | .1272 | .1226 | .1473 | .1399 | .1341 | .1295 | |
| .440 | 2.85 | .729 | .565 | 6.20 | .1369 | .1287 | .1229 | .1171 | .1447 | .1365 | .1308 | .1248 | |
| .480 | 1.94 | .816 | .564 | 7.20 | .1397 | .1303 | .1229 | .1178 | .1487 | .1397 | .1319 | .1268 | |
| .520 | .97 | .905 | .610 | 8.34 | .1504 | .1397 | .1313 | .1245 | .1608 | .1501 | .1417 | .1350 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 4.42 | .590 | .640 | 5.49 | .1372 | .1300 | .1243 | .1197 | .1441 | .1368 | .1312 | .1266 | |
| .400 | 3.02 | .674 | .471 | 6.24 | .1343 | .1270 | .1204 | .1111 | .1391 | .1307 | .1242 | .1189 | |
| .440 | 2.00 | .765 | .479 | 7.40 | .1296 | .1198 | .1122 | .1061 | .1368 | .1291 | .1244 | .1193 | |
| .480 | 1.16 | .845 | .534 | 8.50 | .1341 | .1231 | .1165 | .1076 | .1447 | .1337 | .1291 | .1182 | |
| .520 | .67 | .891 | .563 | 9.85 | .1410 | .1295 | .1204 | .1131 | .1523 | .1408 | .1317 | .1211 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.8 187.5 18.7 40.4 87.8 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 3.47 | .606 | .635 | 5.91 | .1259 | .1180 | .1117 | .1067 | .1333 | .1253 | .1191 | .1141 | |
| 1.00 | 2.22 | .707 | .415 | 7.08 | .1169 | .1074 | .1000 | .0941 | .1254 | .1163 | .1099 | .1038 | |
| .440 | 1.88 | .796 | .441 | 8.42 | .1210 | .1101 | .1016 | .0947 | .1315 | .1207 | .1121 | .1053 | |
| .480 | .51 | .874 | .532 | 9.76 | .1297 | .1167 | .1078 | .0992 | .1412 | .1289 | .1192 | .1114 | |
| .520 | -.26 | .953 | .565 | 11.24 | .1434 | .1295 | .1189 | .1097 | .1575 | .1436 | .1326 | .1237 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 218.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 3.19 | .520 | .507 | 6.06 | .1390 | .1320 | .1259 | .1210 | .1471 | .139 | .1332 | .1283 | |
| .360 | 2.60 | .644 | .361 | 6.47 | .1132 | .1046 | .0978 | .0924 | .1213 | .1127 | .1059 | .1004 | |
| .400 | 1.52 | .740 | .425 | 1.96 | .1143 | .1040 | .0958 | .0893 | .1242 | .1139 | .1050 | .0993 | |
| .440 | .70 | .826 | .491 | 9.71 | .1188 | .1056 | .0969 | .0892 | .1311 | .1187 | .1098 | .1013 | |
| .480 | -.04 | .912 | .535 | 11.67 | .1244 | .1100 | .0985 | .0894 | .1390 | .1245 | .1131 | .1044 | |
| .520 | -.62 | .963 | .573 | 13.00 | .1366 | .1207 | .1081 | .0980 | .1578 | .1369 | .1244 | .1143 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.9 21.2 51.0 98.6 212.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 3.24 | .571 | .339 | 5.96 | .1195 | .1114 | .1051 | .1001 | .1269 | .1189 | .1126 | .1075 | |
| .400 | 1.97 | .764 | .440 | 9.24 | .1173 | .1056 | .0963 | .0889 | .1289 | .1171 | .1079 | .1004 | |
| .440 | .23 | .859 | .486 | 11.35 | .1152 | .1009 | .0896 | .0805 | .1296 | .1151 | .1040 | .0949 | |
| .480 | -.53 | .919 | .519 | 13.69 | .1238 | .1063 | .0931 | .0825 | .1401 | .1234 | .1102 | .0996 | |
| .520 | -.94 | .961 | .584 | 15.96 | .1392 | .1222 | .1088 | .0980 | .1567 | .1397 | .1262 | .1154 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 2.47 | .519 | .304 | 6.30 | .1177 | .1096 | .1014 | .0956 | .1264 | .1172 | .1100 | .1042 | |
| .360 | 1.34 | .786 | .372 | 1.92 | .1184 | .1070 | .0979 | .0907 | .1296 | .1181 | .1091 | .1018 | |
| .400 | .68 | .872 | .425 | 10.95 | .1162 | .1025 | .0917 | .0830 | .1306 | .1161 | .1053 | .0966 | |
| .440 | -.14 | .975 | .454 | 12.22 | .1146 | .0985 | .0857 | .0784 | .1313 | .1158 | .1022 | .0919 | |
| .480 | -.74 | .973 | .434 | 14.31 | .1272 | .1098 | .0959 | .0848 | .1481 | .1276 | .1138 | .1027 | |
| .520 | -1.22 | .960 | .368 | 14.35 | .1507 | .1338 | .1191 | .1079 | .1666 | .1510 | .1378 | .1250 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 11.2 110.2 237.4 23.7 51.2 110.2 231.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 1.77 | .697 | .308 | 6.99 | .1198 | .1079 | .0987 | .0914 | .1308 | .1192 | .1099 | .1026 | |
| .360 | 1.82 | .718 | .355 | 10.33 | .1218 | .1083 | .0977 | .0892 | .1350 | .1215 | .1109 | .1024 | |
| .400 | .27 | .800 | .392 | 12.97 | .1175 | .1019 | .0899 | .0796 | .1332 | .1176 | .1052 | .0953 | |
| .440 | -.43 | .895 | .392 | 14.26 | .1207 | .1032 | .0894 | .0783 | .1385 | .1211 | .1072 | .0961 | |
| .480 | -.85 | .938 | .386 | 15.54 | .1397 | .1216 | .1076 | .0963 | .1475 | .1240 | .1088 | .1044 | |
| .520 | -1.40 | .990 | .210 | 14.63 | .1636 | .1453 | .1309 | .1193 | .1818 | .1636 | .1442 | .1376 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.0 116.8 249.9 29.0 53.0 116.8 219.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 1.32 | .671 | .298 | 11.20 | .1202 | .1057 | .0943 | .0851 | .1343 | .1194 | .1044 | .0992 | |
| .360 | .74 | .719 | .322 | 12.35 | .1225 | .1069 | .0945 | .0846 | .1379 | .1223 | .1100 | .1001 | |
| .400 | -.00 | .812 | .326 | 13.61 | .1233 | .1064 | .0931 | .0824 | .1403 | .1234 | .1101 | .0994 | |
| .440 | -.62 | .886 | .282 | 14.45 | .1336 | .1157 | .1016 | .0903 | .1516 | .1344 | .1197 | .1083 | |
| .480 | -1.00 | .926 | .176 | 14.66 | .1442 | .1259 | .1214 | .1098 | .1725 | .1542 | .1397 | .1281 | |
| .520 | -1.90 | .955 | .084 | 15.09 | .1759 | .1568 | .1417 | .1296 | .1947 | .1700 | .1505 | .1408 | |

RESISTANCE DATA SERIES 65-A HOOF 5251

LP/SPX = 3.30 DEADRTSE ANGLE = 14.8 DEG F = 1.03

WEIGHT = LIFT (LB, SEAMATEP) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15 32.3 69.6 150.0

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .440 | 3.83 | .666 | .643 | 4.71 | .1572 | .1484 | .1415 | .1360 | .1656 | .1569 | .1500 | .1444 |
| .480 | 3.16 | .728 | .695 | 5.18 | .1543 | .1456 | .1380 | .1320 | .1627 | .1540 | .1473 | .1413 |
| .520 | 2.54 | .790 | .728 | 5.78 | .1663 | .1558 | .1476 | .1410 | .1767 | .1662 | .1580 | .1514 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 3.84 | .626 | .611 | 4.94 | .1585 | .1494 | .1422 | .1364 | .1678 | .1583 | .1510 | .1453 |
| .440 | 3.14 | .645 | .635 | 5.47 | .1657 | .1558 | .1476 | .1409 | .1769 | .1672 | .1596 | .1531 |
| .480 | 2.49 | .749 | .685 | 6.29 | .1633 | .1520 | .1431 | .1360 | .1746 | .1634 | .1544 | .1473 |
| .520 | 1.89 | .812 | .642 | 6.90 | .1631 | .1507 | .1410 | .1331 | .1755 | .1631 | .1534 | .1456 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 3.78 | .578 | .549 | 4.95 | .1447 | .1355 | .1282 | .1220 | .1536 | .1444 | .1371 | .1313 |
| .400 | 2.94 | .644 | .635 | 5.80 | .1464 | .1350 | .1273 | .1200 | .1570 | .1463 | .1379 | .1312 |
| .440 | 2.29 | .711 | .617 | 6.68 | .1515 | .1394 | .1300 | .1220 | .1625 | .1514 | .1421 | .1345 |
| .480 | 1.67 | .776 | .568 | 7.40 | .1484 | .1342 | .1257 | .1180 | .1637 | .1495 | .1400 | .1316 |
| .520 | 1.09 | .848 | .528 | 8.10 | .1735 | .1591 | .1476 | .1385 | .181 | .1674 | .1522 | .1430 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.87 | .521 | .444 | 4.65 | .1341 | .1255 | .1186 | .1131 | .1427 | .1330 | .1270 | .1214 |
| .360 | 2.97 | .594 | .576 | 5.98 | .1360 | .1252 | .1166 | .1097 | .1444 | .1350 | .1273 | .1205 |
| .400 | 2.20 | .658 | .552 | 6.74 | .1437 | .1315 | .1240 | .1182 | .1509 | .1437 | .1361 | .1284 |
| .440 | 1.54 | .733 | .495 | 7.41 | .1547 | .1414 | .1304 | .1224 | .1640 | .1547 | .1447 | .1357 |
| .480 | .97 | .793 | .454 | 8.13 | .1572 | .1426 | .1311 | .1219 | .1614 | .1522 | .1457 | .1365 |
| .520 | .51 | .853 | .493 | 9.14 | .1744 | .1582 | .1455 | .1352 | .1904 | .1747 | .1619 | .1517 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.38 | .575 | .461 | 5.70 | .1242 | .1177 | .1093 | .1027 | .1335 | .1279 | .1196 | .1129 |
| .360 | 2.47 | .617 | .476 | 6.79 | .1333 | .1210 | .1112 | .1034 | .1455 | .1372 | .1274 | .1196 |
| .400 | 1.71 | .690 | .444 | 7.52 | .1453 | .1317 | .1210 | .1124 | .1593 | .1493 | .1395 | .1299 |
| .440 | 1.08 | .756 | .421 | 8.46 | .1584 | .1439 | .1321 | .1226 | .1728 | .1609 | .1471 | .1376 |
| .480 | .55 | .826 | .444 | 9.70 | .1673 | .1500 | .1364 | .1256 | .1845 | .1674 | .1530 | .1430 |
| .520 | .07 | .891 | .494 | 11.18 | .1775 | .1577 | .1423 | .1300 | .1971 | .1779 | .1625 | .1501 |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.4 94.6 212.5 21.7 45.4 94.6 212.5

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.89 | .552 | .392 | 6.53 | .1256 | .1135 | .1039 | .0967 | .1373 | .1292 | .1197 | .1081 |
| .360 | 2.00 | .635 | .397 | 7.52 | .1361 | .1224 | .1116 | .1029 | .1496 | .1389 | .1251 | .1165 |
| .400 | 1.29 | .704 | .347 | 8.45 | .1506 | .1354 | .1234 | .1134 | .1654 | .1506 | .1376 | .1290 |
| .440 | .71 | .780 | .406 | 9.79 | .1620 | .1444 | .1311 | .1201 | .1796 | .1624 | .1467 | .1377 |
| .480 | .21 | .851 | .439 | 11.40 | .1715 | .1517 | .1361 | .1255 | .1909 | .1727 | .1566 | .1446 |
| .520 | -.25 | .919 | .441 | 12.86 | .1843 | .1623 | .1449 | .1309 | .2074 | .1855 | .1681 | .1541 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.47 | .568 | .324 | 7.14 | .1383 | .1271 | .1166 | .0987 | .1471 | .1399 | .1195 | .1111 |
| .360 | 1.50 | .655 | .349 | 8.42 | .1476 | .1274 | .1154 | .1050 | .1574 | .1426 | .1306 | .1209 |
| .400 | .97 | .722 | .374 | 9.49 | .1558 | .1388 | .1253 | .1146 | .1739 | .1568 | .1426 | .1318 |
| .440 | .40 | .801 | .399 | 11.30 | .1676 | .1483 | .1324 | .1199 | .1879 | .1683 | .1527 | .1402 |
| .480 | -.07 | .865 | .427 | 12.75 | .1815 | .1597 | .1423 | .1284 | .2044 | .1826 | .1653 | .1513 |
| .520 | -.57 | .918 | .465 | 14.00 | .1995 | .1759 | .1571 | .1420 | .2247 | .2011 | .1823 | .1672 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.01 | .594 | .296 | 8.00 | .1421 | .1274 | .1158 | .1066 | .1564 | .1414 | .1302 | .1210 |
| .360 | 1.27 | .671 | .345 | 9.57 | .1504 | .1333 | .1199 | .1091 | .1676 | .1504 | .1371 | .1263 |
| .400 | .68 | .747 | .374 | 11.07 | .1631 | .1438 | .1286 | .1163 | .1829 | .1636 | .1484 | .1362 |
| .440 | .15 | .817 | .392 | 12.48 | .1810 | .1596 | .1426 | .1290 | .2074 | .1820 | .1650 | .1514 |
| .480 | -.32 | .872 | .415 | 13.65 | .2015 | .1748 | .1568 | .1452 | .2261 | .2029 | .1846 | .1698 |
| .520 | -.71 | .910 | .448 | 14.43 | .2190 | .1948 | .1756 | .1602 | .2460 | .2200 | .2016 | .1861 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP (INFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 1.44 | .618 | .301 | 9.22 | .1542 | .1376 | .1245 | .1140 | .1708 | .1542 | .1411 | .1305 |
| .360 | 1.04 | .680 | .353 | 10.85 | .1570 | .1380 | .1229 | .1108 | .1746 | .1575 | .1424 | .1303 |
| .400 | .46 | .753 | .374 | 12.14 | .1747 | .1570 | .1405 | .1271 | .1905 | .1749 | .1623 | .1490 |
| .440 | -.09 | .821 | .346 | 13.27 | .2051 | .1826 | .1647 | .1503 | .2200 | .2064 | .1886 | .1742 |
| .480 | -.52 | .873 | .394 | 14.23 | .2307 | .2068 | .1878 | .1725 | .2467 | .2324 | .2134 | .1981 |
| .520 | -.94 | .913 | .413 | 15.27 | .2462 | .2207 | .2005 | .1842 | .2737 | .2482 | .2280 | .2117 |

RESISTANCE DATA SERIES 65-A MODEL 5251

LP/PPX = 3.30

DEADRISE ANGLE = 14.8 DEG

FNP = 3.50

WEIGHT = LIFT (LH, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.35 | .581 | .420 | 4.56 | .1277 | .1161 | .1069 | .0996 | .1309 | .1272 | .1181 | .1108 | |
| .360 | 1.71 | .557 | .401 | 5.24 | .1376 | .1243 | .1139 | .1055 | .1504 | .1372 | .1267 | .1183 | |
| .400 | 1.08 | .544 | .376 | 6.09 | .1502 | .1354 | .1237 | .1143 | .1647 | .1498 | .1381 | .1287 | |
| .440 | .66 | .555 | .367 | 6.56 | .1667 | .1496 | .1372 | .1268 | .1828 | .1663 | .1534 | .1430 | |
| .480 | .14 | .701 | .388 | 7.40 | .1894 | .1711 | .1567 | .1452 | .2075 | .1893 | .1748 | .1635 | |
| .520 | -.44 | .790 | .464 | 1.49 | .2235 | .2030 | .1868 | .1738 | .2442 | .2238 | .2076 | .1946 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 117.5 18.7 40.4 87.0 117.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.06 | .515 | .493 | 4.74 | .1411 | .1293 | .1201 | .1127 | .1527 | .1409 | .1317 | .1243 | |
| .360 | 2.41 | .580 | .493 | 5.59 | .1559 | .1423 | .1335 | .1224 | .1596 | .1560 | .1452 | .1365 | |
| .400 | 1.87 | .639 | .460 | 6.33 | .1700 | .1546 | .1424 | .1327 | .1855 | .1781 | .1580 | .1482 | |
| .440 | 1.39 | .691 | .426 | 7.04 | .1834 | .1664 | .1529 | .1421 | .2006 | .1836 | .1781 | .1593 | |
| .480 | .97 | .739 | .402 | 7.76 | .1966 | .1779 | .1632 | .1513 | .2156 | .1970 | .1822 | .1703 | |
| .520 | .58 | .786 | .396 | 8.55 | .2103 | .1899 | .1737 | .1607 | .2312 | .2108 | .1946 | .1817 | |

LP/V(1/3) = 8.0 LP (FT) = 20.1 43.1 92.8 200.0 20.1 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.09 | .527 | .496 | 5.10 | .1477 | .1348 | .1247 | .1165 | .1607 | .1478 | .1376 | .1295 | |
| .360 | 2.47 | .595 | .498 | 6.14 | .1668 | .1527 | .1403 | .1309 | .1819 | .1671 | .1554 | .1460 | |
| .400 | 1.94 | .656 | .463 | 6.89 | .1845 | .1681 | .1551 | .1446 | .2014 | .1850 | .1720 | .1615 | |
| .440 | 1.48 | .709 | .425 | 7.59 | .2006 | .1826 | .1683 | .1568 | .2192 | .2011 | .1869 | .1754 | |
| .480 | 1.07 | .758 | .398 | 8.34 | .2154 | .1957 | .1800 | .1675 | .2358 | .2161 | .2004 | .1879 | |
| .520 | .68 | .812 | .401 | 9.45 | .2347 | .1926 | .1750 | .1609 | .2379 | .2157 | .1982 | .1840 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.82 | .539 | .467 | 6.16 | .1571 | .1422 | .1305 | .1211 | .1722 | .1573 | .1456 | .1362 | |
| .360 | 2.22 | .606 | .448 | 6.90 | .1784 | .1619 | .1489 | .1384 | .1957 | .1788 | .1658 | .1553 | |
| .400 | 1.71 | .663 | .411 | 7.54 | .1981 | .1802 | .1660 | .1546 | .2165 | .1987 | .1845 | .1731 | |
| .440 | 1.26 | .716 | .378 | 8.24 | .2160 | .1965 | .1811 | .1687 | .2361 | .2167 | .2012 | .1888 | |
| .480 | .85 | .768 | .367 | 8.20 | .2258 | .2042 | .1871 | .1733 | .2458 | .2267 | .2096 | .1958 | |
| .520 | .46 | .826 | .349 | 10.65 | .2222 | .1976 | .1780 | .1623 | .2483 | .2237 | .2041 | .1884 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.47 | .547 | .405 | 7.00 | .1672 | .1504 | .1371 | .1264 | .1844 | .1675 | .1542 | .1435 | |
| .360 | 1.87 | .611 | .375 | 7.61 | .1906 | .1724 | .1580 | .1465 | .2093 | .1911 | .1767 | .1651 | |
| .400 | 1.37 | .667 | .344 | 8.24 | .2100 | .1921 | .1766 | .1641 | .2318 | .2123 | .1968 | .1843 | |
| .440 | .97 | .715 | .328 | 8.94 | .2287 | .2076 | .1908 | .1774 | .2506 | .2295 | .2127 | .1993 | |
| .480 | .12 | .844 | .389 | 11.17 | .2374 | .2124 | .1903 | .1726 | .2699 | .2422 | .2123 | .2024 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 7.17 | .555 | .335 | 7.82 | .1792 | .1694 | .1454 | .1334 | .1984 | .1795 | .1546 | .1526 | |
| .360 | 1.54 | .616 | .311 | 8.41 | .2034 | .1933 | .1673 | .1546 | .2240 | .2039 | .1879 | .1751 | |
| .400 | 1.04 | .673 | .296 | 9.11 | .2253 | .2037 | .1866 | .1722 | .2476 | .2260 | .2099 | .1952 | |
| .440 | .59 | .739 | .312 | 10.43 | .2367 | .2124 | .1932 | .1777 | .2623 | .2380 | .2187 | .2032 | |
| .480 | .19 | .801 | .341 | 11.87 | .2496 | .2224 | .2008 | .1834 | .2786 | .2514 | .2299 | .2125 | |
| .520 | -.18 | .855 | .377 | 11.25 | .2679 | .2380 | .2143 | .1951 | .3003 | .2705 | .2467 | .2276 | |

LP/V(1/3) = -10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.87 | .563 | .281 | 8.76 | .1919 | .1707 | .1540 | .1406 | .2133 | .1922 | .1755 | .1620 | |
| .360 | 1.29 | .625 | .271 | 9.43 | .2167 | .1942 | .1764 | .1621 | .2397 | .2173 | .1995 | .1852 | |
| .400 | .88 | .687 | .272 | 10.28 | .2372 | .2130 | .1939 | .1785 | .2624 | .2382 | .2191 | .2037 | |
| .440 | .35 | .752 | .288 | 11.39 | .2540 | .2277 | .2068 | .1900 | .2800 | .2556 | .2347 | .2179 | |
| .480 | -.02 | .809 | .314 | 17.51 | .2736 | .2452 | .2226 | .2044 | .3043 | .2758 | .2532 | .2350 | |
| .520 | -.37 | .857 | .348 | 13.62 | .2973 | .2668 | .2425 | .2230 | .3306 | .3001 | .2759 | .2563 | |

RESISTANCE DATA SERIES 65-4 MODEL 5251

LP/V = 3.30 DEADWISE ANGLE = 14.8 DEG FNW = 4.00

 WRIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

 LP/V(1/3) = R.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.5 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | .44 | .467 | .195 | 5.99 | .1377 | .1170 | .1013 | .0887 | .1562 | .1362 | .1204 | .1078 |
| .360 | -.03 | .508 | .216 | 7.02 | .1501 | .1271 | .1090 | .0944 | .1726 | .1496 | .1314 | .1169 |
| .400 | -.46 | .550 | .263 | 8.06 | .1909 | .1652 | .1448 | .1285 | .2167 | .1909 | .1706 | .1543 |
| .440 | -.84 | .593 | .337 | 9.05 | .2607 | .2326 | .2103 | .1924 | .2896 | .2615 | .2392 | .2213 |
| .480 | -1.18 | .636 | .429 | 9.96 | .3544 | .3243 | .3004 | .2812 | .3863 | .3562 | .3323 | .3131 |
| .520 | -1.46 | .676 | .533 | 10.77 | .4627 | .4311 | .4059 | .3856 | .4972 | .4655 | .4403 | .4200 |

 LP/V(1/3) = 9.0 LP (FT) = 22.5 49.5 104.4 225.0 22.5 49.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.51 | .539 | .273 | 6.41 | .1865 | .1662 | .1502 | .1373 | .2070 | .1867 | .1707 | .1578 |
| .360 | 1.16 | .574 | .273 | 7.04 | .1824 | .1699 | .1724 | .1584 | .2344 | .2124 | .1949 | .1809 |
| .400 | .85 | .609 | .274 | 7.78 | .2257 | .2011 | .1820 | .1667 | .2501 | .2280 | .2169 | .1915 |
| .440 | .48 | .652 | .279 | 8.89 | .2257 | .1984 | .1767 | .1594 | .2541 | .2268 | .2052 | .1878 |
| .480 | .13 | .697 | .297 | 10.05 | .2770 | .2075 | .1833 | .1639 | .2701 | .2396 | .2155 | .1961 |
| .520 | -.19 | .740 | .330 | 11.27 | .2673 | .2338 | .2072 | .1858 | .3032 | .2697 | .2431 | .2217 |

 LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.83 | .546 | .290 | 7.2 | .1977 | .1759 | .1587 | .1448 | .2202 | .1984 | .1811 | .1672 |
| .360 | 1.43 | .594 | .291 | 7.68 | .2320 | .2085 | .1998 | .1748 | .2566 | .2330 | .2144 | .1993 |
| .400 | 1.11 | .634 | .295 | 8.32 | .2611 | .2358 | .2158 | .1996 | .2877 | .2624 | .2424 | .2263 |
| .440 | .79 | .678 | .302 | 9.23 | .2792 | .2514 | .2294 | .2117 | .3087 | .2810 | .2599 | .2412 |
| .480 | .46 | .728 | .316 | 10.47 | .2919 | .2609 | .2362 | .2164 | .3254 | .2941 | .2697 | .2498 |
| .520 | .14 | .775 | .338 | 11.72 | .3112 | .2769 | .2497 | .2277 | .3487 | .3144 | .2872 | .2652 |

 LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 115.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.83 | .543 | .271 | 7.63 | .2127 | .1890 | .1701 | .1550 | .2373 | .2136 | .1947 | .1796 |
| .360 | 1.41 | .592 | .279 | 8.29 | .2503 | .2250 | .2050 | .1869 | .2789 | .2515 | .2315 | .2154 |
| .400 | 1.06 | .636 | .288 | 9.02 | .2839 | .2571 | .2358 | .2187 | .3125 | .2856 | .2643 | .2472 |
| .440 | .72 | .690 | .304 | 9.98 | .3146 | .2850 | .2615 | .2426 | .3465 | .3169 | .2934 | .2745 |
| .480 | .39 | .746 | .325 | 11.22 | .3434 | .3106 | .2846 | .2636 | .3792 | .3465 | .3205 | .2995 |
| .520 | .07 | .797 | .348 | 12.43 | .3706 | .3348 | .3063 | .2834 | .4103 | .3745 | .3461 | .3231 |

RESISTANCE DATA SERIES 65-A MODEL 5249

LP/RPX = 4.66 DEARISE ANGLE = 14.8 DEG FNF = 1.00

| HEIGHT : LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000 | | | | | | | | | | | | | |
|--|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 161.5 16.2 35.0 75.4 162.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.40 | .807 | .712 | 7.57 | .0599 | .0580 | .0565 | .0554 | .0614 | .0595 | .0581 | .0569 | |
| .360 | 2.48 | .986 | .740 | 8.07 | .0444 | .0424 | .0408 | .0396 | .0460 | .0440 | .0425 | .0412 | |
| .400 | .94 | .992 | .827 | 8.27 | .0356 | .0336 | .0321 | .0309 | .0373 | .0353 | .0337 | .0325 | |
| .440 | -1.50 | .997 | .774 | 8.14 | .0342 | .0322 | .0307 | .0295 | .0358 | .0339 | .0322 | .0311 | |
| .480 | -1.88 | 1.000 | .687 | 7.79 | .0355 | .0336 | .0321 | .0309 | .0370 | .0351 | .0337 | .0325 | |
| .520 | -2.93 | 1.000 | .761 | 7.46 | .0339 | .0321 | .0307 | .0296 | .0354 | .0336 | .0322 | .0311 | |
| LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.33 | .825 | .666 | 8.22 | .0539 | .0519 | .0503 | .0490 | .0555 | .0536 | .0519 | .0507 | |
| .360 | 1.64 | .951 | .662 | 8.73 | .0401 | .0380 | .0364 | .0350 | .0419 | .0399 | .0381 | .0368 | |
| .400 | .87 | .984 | .659 | 8.65 | .0348 | .0327 | .0310 | .0297 | .0365 | .0344 | .0328 | .0315 | |
| .440 | -1.76 | .986 | .739 | 8.77 | .0318 | .0297 | .0281 | .0268 | .0335 | .0315 | .0298 | .0285 | |
| .480 | -1.90 | .993 | .779 | 8.75 | .0308 | .0287 | .0271 | .0258 | .0325 | .0304 | .0288 | .0275 | |
| LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.49 | .845 | .607 | 8.88 | .0490 | .0469 | .0452 | .0438 | .0508 | .0486 | .0470 | .0456 | |
| .360 | 1.08 | .951 | .516 | 9.94 | .0389 | .0367 | .0350 | .0336 | .0406 | .0385 | .0368 | .0354 | |
| .400 | .00 | .991 | .515 | 9.90 | .0334 | .0312 | .0295 | .0282 | .0351 | .0330 | .0313 | .0299 | |
| .440 | -1.01 | .995 | .616 | 9.08 | .0298 | .0277 | .0260 | .0246 | .0316 | .0295 | .0278 | .0264 | |
| .480 | -1.90 | .995 | .719 | 9.48 | .0278 | .0256 | .0239 | .0225 | .0297 | .0275 | .0258 | .0244 | |
| .520 | -2.87 | 1.000 | .790 | 9.89 | .0268 | .0245 | .0226 | .0212 | .0287 | .0264 | .0246 | .0232 | |
| LP/V(1/3) = 8.0 LP (FT) = 26.0 43.1 92.8 200.0 26.0 43.1 92.8 200.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.86 | .853 | .499 | 9.03 | .0492 | .0429 | .0412 | .0398 | .0470 | .0447 | .0430 | .0416 | |
| .360 | .21 | .958 | .431 | 9.03 | .0367 | .0305 | .0288 | .0274 | .0345 | .0323 | .0306 | .0292 | |
| .400 | -1.27 | .990 | .403 | 9.81 | .0311 | .0289 | .0272 | .0259 | .0329 | .0307 | .0290 | .0277 | |
| .440 | -1.13 | .991 | .452 | 9.27 | .0273 | .0251 | .0233 | .0219 | .0289 | .0267 | .0250 | .0236 | |
| .480 | -1.92 | .991 | .608 | 9.95 | .0248 | .0224 | .0206 | .0191 | .0267 | .0244 | .0226 | .0211 | |
| .520 | -2.70 | 1.000 | .904 | 11.21 | .0232 | .0206 | .0186 | .0170 | .0254 | .0229 | .0209 | .0193 | |
| LP/V(1/3) = 8.5 LP (FT) = 21.2 45.0 98.6 212.5 21.2 45.0 98.6 212.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.48 | .864 | .409 | 9.07 | .0409 | .0366 | .0369 | .0355 | .0427 | .0405 | .0387 | .0374 | |
| .360 | .36 | .962 | .367 | 9.12 | .0344 | .0325 | .0308 | .0294 | .0366 | .0344 | .0326 | .0313 | |
| .400 | -1.47 | .984 | .337 | 9.29 | .0286 | .0263 | .0245 | .0231 | .0304 | .0282 | .0264 | .0250 | |
| .440 | -1.17 | .989 | .381 | 9.75 | .0247 | .0220 | .0201 | .0187 | .0263 | .0239 | .0221 | .0206 | |
| .480 | -1.84 | .990 | .522 | 10.67 | .0221 | .0196 | .0176 | .0161 | .0242 | .0217 | .0197 | .0182 | |
| .520 | -2.57 | 1.010 | .831 | 12.20 | .0227 | .0199 | .0177 | .0160 | .0251 | .0224 | .0202 | .0185 | |
| LP/V(1/3) = 9.0 LP (FT) = 27.5 44.9 104.4 225.0 27.5 44.9 104.4 225.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.03 | .876 | .354 | 9.47 | .0375 | .0352 | .0334 | .0319 | .0394 | .0371 | .0353 | .0338 | |
| .360 | .61 | .952 | .378 | 9.79 | .0321 | .0297 | .0279 | .0264 | .0340 | .0317 | .0298 | .0284 | |
| .400 | -1.61 | .979 | .308 | 9.88 | .0270 | .0246 | .0227 | .0212 | .0289 | .0266 | .0247 | .0232 | |
| .440 | -1.27 | .990 | .316 | 10.19 | .0234 | .0210 | .0191 | .0175 | .0255 | .0230 | .0211 | .0196 | |
| .480 | -1.10 | .995 | .359 | 10.84 | .0213 | .0187 | .0166 | .0150 | .0234 | .0208 | .0188 | .0172 | |
| .520 | -2.50 | .997 | .473 | 12.35 | .0211 | .0182 | .0159 | .0141 | .0235 | .0207 | .0184 | .0166 | |
| LP/V(1/3) = 9.5 LP (FT) = 23.7 41.2 110.2 237.4 23.7 41.2 110.2 237.4 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.67 | .879 | .325 | 10.25 | .0446 | .0321 | .0302 | .0286 | .0367 | .0342 | .0322 | .0307 | |
| .360 | -1.17 | .943 | .304 | 10.50 | .0299 | .0274 | .0254 | .0239 | .0320 | .0295 | .0275 | .0260 | |
| .400 | -1.75 | .976 | .275 | 10.44 | .0262 | .0237 | .0217 | .0201 | .0282 | .0257 | .0238 | .0222 | |
| .440 | -1.27 | .997 | .246 | 10.55 | .0234 | .0209 | .0189 | .0174 | .0255 | .0230 | .0210 | .0195 | |
| .480 | -1.76 | 1.000 | .214 | 10.93 | .0214 | .0188 | .0167 | .0151 | .0236 | .0210 | .0189 | .0173 | |
| .520 | -2.70 | .999 | .177 | 11.87 | .0201 | .0172 | .0150 | .0132 | .0225 | .0197 | .0173 | .0156 | |
| LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.42 | .874 | .301 | 11.15 | .0421 | .0294 | .0273 | .0256 | .0343 | .0316 | .0295 | .0279 | |
| .360 | -1.29 | .937 | .273 | 11.18 | .0244 | .0217 | .0196 | .0180 | .0279 | .0252 | .0231 | .0216 | |
| .400 | -1.87 | .974 | .212 | 10.95 | .0247 | .0211 | .0190 | .0174 | .0279 | .0252 | .0231 | .0215 | |
| .440 | -1.27 | .995 | .181 | 10.94 | .0236 | .0210 | .0189 | .0173 | .0279 | .0252 | .0231 | .0215 | |
| .480 | -1.71 | 1.000 | .116 | 11.17 | .0219 | .0194 | .0170 | .0154 | .0241 | .0214 | .0193 | .0176 | |
| .520 | -2.21 | 1.000 | .120 | 11.69 | .0201 | .0172 | .0149 | .0131 | .0224 | .0195 | .0173 | .0155 | |

RESISTANCE DATA SERIES 65-A MODEL 5249

LP/RPX . 4.66 DEADRISE ANGLE . 14.8 DEG FN9 . 1.25

WEIGHT x LIFT (LB, SEAWATER) x 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) . 6.5 LP (FT) x 16.2 35.0 71.4 162.5 16.2 35.0 71.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 4.19 | .815 | 7.42 | 7.49 | .0924 | .0896 | .0874 | .0857 | .0947 | .0919 | .0898 | .0881 | |
| .400 | 2.39 | .949 | 7.82 | 8.04 | .0947 | .0918 | .0896 | .0877 | .0972 | .0943 | .0921 | .0903 | |
| .440 | .94 | .942 | .877 | 8.28 | .0642 | .0613 | .0590 | .0571 | .0666 | .0639 | .0615 | .0597 | |
| .480 | -1.42 | .994 | .950 | 8.12 | .0650 | .0621 | .0597 | .0579 | .0677 | .0647 | .0624 | .0605 | |
| .520 | -1.73 | 1.000 | .926 | 8.09 | .0725 | .0696 | .0674 | .0656 | .0750 | .0721 | .0699 | .0681 | |

LP/W(1/3) = 7.0 LP (FT) x 17.5 37.7 75.4 175.0 17.5 37.7 75.4 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 5.00 | .711 | .697 | 7.84 | .0901 | .0891 | .0829 | .0911 | .1005 | .0976 | .0953 | .0935 | |
| .360 | 3.00 | .853 | .710 | 8.43 | .0756 | .0726 | .0702 | .0683 | .0783 | .0752 | .0729 | .0709 | |
| .400 | 1.51 | .958 | .766 | 6.69 | .0625 | .0594 | .0569 | .0549 | .0653 | .0621 | .0596 | .0577 | |
| .440 | -.22 | .991 | .776 | 6.90 | .0566 | .0534 | .0509 | .0489 | .0594 | .0562 | .0537 | .0517 | |
| .480 | -.47 | .997 | .769 | 9.03 | .0579 | .0547 | .0522 | .0502 | .0607 | .0575 | .0550 | .0530 | |
| .520 | -1.91 | 1.000 | .685 | 6.76 | .0625 | .0593 | .0569 | .0549 | .0652 | .0621 | .0596 | .0577 | |

LP/W(1/3) = 7.5 LP (FT) x 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 3.70 | .741 | .672 | 8.63 | .0835 | .0804 | .0779 | .0759 | .0862 | .0831 | .0806 | .0786 | |
| .360 | 2.15 | .875 | .672 | 9.24 | .0666 | .0633 | .0607 | .0586 | .0695 | .0662 | .0636 | .0615 | |
| .400 | .85 | .965 | .629 | 9.29 | .0556 | .0523 | .0497 | .0476 | .0585 | .0552 | .0526 | .0505 | |
| .440 | -.24 | .994 | .566 | 9.41 | .0519 | .0485 | .0459 | .0438 | .0548 | .0514 | .0488 | .0467 | |
| .480 | -1.21 | .996 | .546 | 9.57 | .0525 | .0490 | .0463 | .0442 | .0555 | .0520 | .0493 | .0472 | |
| .520 | -2.18 | .997 | .512 | 9.62 | .0547 | .0512 | .0485 | .0464 | .0577 | .0543 | .0516 | .0496 | |

LP/W(1/3) = 8.0 LP (FT) x 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 2.91 | .761 | .626 | 9.27 | .0763 | .0730 | .0703 | .0682 | .0792 | .0759 | .0732 | .0711 | |
| .360 | 1.59 | .891 | .557 | 9.55 | .0604 | .0570 | .0544 | .0522 | .0634 | .0600 | .0573 | .0552 | |
| .400 | .50 | .974 | .516 | 9.51 | .0525 | .0491 | .0465 | .0444 | .0555 | .0521 | .0495 | .0473 | |
| .440 | -.57 | .993 | .457 | 9.55 | .0473 | .0439 | .0412 | .0391 | .0503 | .0469 | .0442 | .0421 | |
| .480 | -1.44 | .991 | .501 | 9.07 | .0459 | .0424 | .0396 | .0374 | .0488 | .0454 | .0427 | .0405 | |
| .520 | -2.22 | .995 | .668 | 10.52 | .0470 | .0433 | .0404 | .0381 | .0503 | .0466 | .0437 | .0414 | |

LP/W(1/3) = 6.5 LP (FT) x 21.2 45.6 96.6 212.5 21.2 45.6 96.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 2.31 | .776 | .528 | 9.41 | .0681 | .0647 | .0620 | .0599 | .0710 | .0676 | .0649 | .0628 | |
| .360 | 1.03 | .912 | .507 | 9.57 | .0574 | .0542 | .0515 | .0494 | .0606 | .0572 | .0545 | .0523 | |
| .400 | .04 | .979 | .410 | 9.54 | .0496 | .0462 | .0436 | .0414 | .0526 | .0492 | .0465 | .0444 | |
| .440 | -1.70 | .988 | .403 | 9.76 | .0425 | .0390 | .0362 | .0341 | .0455 | .0420 | .0393 | .0371 | |
| .480 | -1.56 | .984 | .480 | 19.36 | .0394 | .0358 | .0329 | .0306 | .0427 | .0390 | .0361 | .0339 | |
| .520 | -2.27 | .993 | .675 | 11.49 | .0420 | .0380 | .0349 | .0325 | .0456 | .0416 | .0385 | .0361 | |

LP/W(1/3) = 9.0 LP (FT) x 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 1.75 | .793 | .412 | 9.28 | .0613 | .0579 | .0552 | .0531 | .0642 | .0608 | .0581 | .0560 | |
| .360 | .62 | .924 | .378 | 9.57 | .0547 | .0513 | .0486 | .0465 | .0577 | .0543 | .0516 | .0494 | |
| .400 | -.25 | .971 | .337 | 9.70 | .0459 | .0424 | .0397 | .0376 | .0489 | .0455 | .0427 | .0406 | |
| .440 | -1.00 | .987 | .332 | 10.12 | .0391 | .0355 | .0327 | .0304 | .0423 | .0387 | .0358 | .0336 | |
| .480 | -1.57 | .991 | .371 | 10.61 | .0365 | .0327 | .0297 | .0273 | .0399 | .0360 | .0330 | .0306 | |
| .520 | -2.22 | .995 | .464 | 12.16 | .0379 | .0337 | .0303 | .0277 | .0417 | .0375 | .0341 | .0315 | |

LP/W(1/3) = 9.5 LP (FT) x 23.7 51.2 119.2 237.4 23.7 51.2 119.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 1.31 | .816 | .331 | 9.76 | .0562 | .0529 | .0502 | .0481 | .0591 | .0554 | .0531 | .0510 | |
| .360 | -.29 | .922 | .318 | 9.98 | .0504 | .0468 | .0440 | .0418 | .0535 | .0499 | .0471 | .0449 | |
| .400 | -1.47 | .966 | .288 | 10.19 | .0430 | .0393 | .0365 | .0342 | .0462 | .0425 | .0397 | .0374 | |
| .440 | -1.07 | .987 | .268 | 10.59 | .0380 | .0342 | .0313 | .0289 | .0413 | .0376 | .0346 | .0322 | |
| .480 | -1.61 | .997 | .259 | 11.40 | .0352 | .0312 | .0280 | .0255 | .0387 | .0347 | .0315 | .0290 | |
| .520 | -2.18 | .999 | .261 | 12.59 | .0343 | .0303 | .0268 | .0240 | .0387 | .0342 | .0307 | .0279 | |

LP/W(1/3) = 10.0 LP (FT) x 25.0 54.8 116.0 249.9 25.0 54.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | .92 | .829 | .287 | 9.84 | .0517 | .0482 | .0454 | .0432 | .0549 | .0514 | .0485 | .0463 | |
| .360 | -.07 | .917 | .280 | 10.59 | .0462 | .0425 | .0395 | .0372 | .0496 | .0458 | .0428 | .0405 | |
| .400 | -1.07 | .954 | .254 | 10.62 | .0409 | .0371 | .0341 | .0317 | .0443 | .0405 | .0374 | .0350 | |
| .440 | -1.14 | .980 | .219 | 11.18 | .0372 | .0333 | .0302 | .0277 | .0407 | .0368 | .0336 | .0312 | |
| .480 | -1.40 | 1.000 | .174 | 11.76 | .0347 | .0305 | .0272 | .0246 | .0384 | .0342 | .0309 | .0282 | |
| .520 | -2.11 | 1.000 | .108 | 12.81 | .0331 | .0284 | .0244 | .0219 | .0371 | .0324 | .0288 | .0259 | |

LP/SPX = 4.66 DEARRISE ANGLE = 14.1 DEG FNV = 1.50

WRIGHT = LIFT (LB, SEAWATER) = 1000 10000 100004 1000000 1000 10000 100000 *****

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 5.37 | .756 | .700 | 7.05 | .1259 | .1223 | .1194 | .1171 | .1291 | .1254 | .1226 | .1203 | |
| .400 | 3.50 | .851 | .749 | 7.42 | .1046 | .1008 | .0979 | .0955 | .1079 | .1042 | .1012 | .0988 | |
| .440 | 2.00 | .961 | .805 | 7.89 | .0910 | .0879 | .0848 | .0824 | .0954 | .0914 | .0884 | .0860 | |
| .480 | .50 | .992 | .919 | 8.31 | .0838 | .0798 | .0766 | .0740 | .0876 | .0835 | .0803 | .0778 | |
| .520 | -1.77 | 1.000 | 1.000 | 8.51 | .0899 | .0859 | .0826 | .0800 | .0937 | .0896 | .0864 | .0838 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.96 | .760 | .700 | 7.77 | .1045 | .1006 | .0975 | .0950 | .1180 | .1141 | .1109 | .1085 | |
| .400 | 2.14 | .848 | .735 | 8.37 | .0891 | .0850 | .0817 | .0791 | .0929 | .0887 | .0854 | .0828 | |
| .440 | 1.19 | .964 | .818 | 8.86 | .0788 | .0745 | .0711 | .0683 | .0828 | .0784 | .0750 | .0723 | |
| .480 | .02 | .993 | .872 | 9.18 | .0762 | .0718 | .0683 | .0655 | .0803 | .0759 | .0724 | .0696 | |
| .520 | -1.00 | .998 | .836 | 9.23 | .0826 | .0781 | .0746 | .0718 | .0868 | .0823 | .0787 | .0759 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 5.00 | .674 | .638 | 7.93 | .1146 | .1105 | .1073 | .1049 | .1181 | .1141 | .1109 | .1083 | |
| .360 | 3.01 | .745 | .643 | 8.61 | .0894 | .0854 | .0821 | .0793 | .0936 | .0893 | .0859 | .0832 | |
| .400 | 1.76 | .893 | .733 | 9.75 | .0775 | .0730 | .0694 | .0666 | .0817 | .0772 | .0736 | .0707 | |
| .440 | .50 | .912 | .747 | 9.75 | .0691 | .0643 | .0606 | .0577 | .0734 | .0687 | .0650 | .0621 | |
| .480 | -0.47 | .997 | .640 | 9.98 | .0712 | .0663 | .0625 | .0594 | .0756 | .0707 | .0669 | .0639 | |
| .520 | -1.36 | .996 | .516 | 9.88 | .0774 | .0724 | .0686 | .0655 | .0818 | .0769 | .0730 | .0699 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 210.1

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.17 | .647 | .625 | 8.68 | .0964 | .0924 | .0889 | .0862 | .1007 | .0967 | .0928 | .0901 | |
| .360 | 2.29 | .803 | .662 | 9.53 | .0780 | .0733 | .0696 | .0667 | .0823 | .0776 | .0739 | .0709 | |
| .400 | 1.12 | .919 | .699 | 10.25 | .0689 | .0639 | .0590 | .0569 | .0735 | .0686 | .0646 | .0615 | |
| .440 | .14 | .984 | .677 | 10.59 | .0655 | .0604 | .0564 | .0532 | .0703 | .0652 | .0612 | .0579 | |
| .480 | -0.73 | .994 | .693 | 10.57 | .0656 | .0605 | .0565 | .0532 | .0704 | .0653 | .0612 | .0579 | |
| .520 | -1.49 | .992 | .564 | 10.50 | .0695 | .0644 | .0604 | .0572 | .0743 | .0691 | .0651 | .0619 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 91.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.95 | .709 | .600 | 9.42 | .0941 | .0796 | .0757 | .0727 | .0883 | .0836 | .0799 | .0769 | |
| .360 | 1.64 | .834 | .615 | 10.43 | .0711 | .0660 | .0620 | .0587 | .0759 | .0707 | .0666 | .0634 | |
| .400 | .64 | .943 | .614 | 11.16 | .0597 | .0543 | .0501 | .0467 | .0647 | .0593 | .0551 | .0517 | |
| .440 | -0.20 | .981 | .599 | 11.11 | .0637 | .0584 | .0542 | .0508 | .0687 | .0634 | .0592 | .0558 | |
| .480 | -1.00 | .988 | .588 | 10.92 | .0599 | .0546 | .0505 | .0472 | .0648 | .0595 | .0554 | .0521 | |
| .520 | -1.61 | .989 | .598 | 10.96 | .0620 | .0567 | .0525 | .0492 | .0669 | .0616 | .0575 | .0542 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.31 | .724 | .549 | 9.112 | .0757 | .0700 | .0670 | .0639 | .0801 | .0752 | .0714 | .0683 | |
| .360 | 1.16 | .854 | .549 | 10.49 | .0704 | .0653 | .0613 | .0580 | .0751 | .0700 | .0660 | .0629 | |
| .400 | .27 | .945 | .519 | 10.64 | .0676 | .0625 | .0585 | .0552 | .0724 | .0673 | .0632 | .0600 | |
| .440 | -0.47 | .976 | .452 | 10.51 | .0606 | .0555 | .0514 | .0482 | .0653 | .0602 | .0562 | .0530 | |
| .480 | -1.11 | .998 | .429 | 10.63 | .0570 | .0519 | .0478 | .0446 | .0618 | .0566 | .0526 | .0493 | |
| .520 | -1.70 | .993 | .466 | 11.14 | .0584 | .0533 | .0492 | .0460 | .0634 | .0580 | .0538 | .0504 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 111.2 217.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.82 | .746 | .480 | 9.87 | .0715 | .0664 | .0627 | .0596 | .0759 | .0719 | .0677 | .0641 | |
| .360 | .78 | .871 | .472 | 10.81 | .0692 | .0643 | .0605 | .0574 | .0737 | .0688 | .0650 | .0619 | |
| .400 | -0.03 | .940 | .346 | 9.96 | .0634 | .0590 | .0552 | .0521 | .0687 | .0638 | .0596 | .0566 | |
| .440 | -0.68 | .974 | .304 | 10.09 | .0583 | .0533 | .0494 | .0463 | .0628 | .0578 | .0540 | .0508 | |
| .480 | -1.23 | .991 | .274 | 10.55 | .0554 | .0504 | .0463 | .0430 | .0603 | .0551 | .0510 | .0478 | |
| .520 | -1.74 | .999 | .314 | 11.42 | .0561 | .0505 | .0461 | .0426 | .0617 | .0565 | .0512 | .0477 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------|------------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.39 | .767 | .413 | 9.62 | .0691 | .0644 | .0608 | .0576 | .0734 | .0687 | .0649 | .0620 | |
| .360 | .50 | .871 | .380 | 9.69 | .0654 | .0621 | .0584 | .0554 | .0712 | .0665 | .0629 | .0598 | |
| .400 | -0.26 | .929 | .277 | 9.79 | .0606 | .0559 | .0520 | .0490 | .0650 | .0602 | .0564 | .0534 | |
| .440 | -0.87 | .975 | .202 | 10.17 | .0566 | .0515 | .0476 | .0444 | .0611 | .0561 | .0522 | .0490 | |
| .480 | -1.33 | .986 | .177 | 10.81 | .0544 | .0491 | .0449 | .0415 | .0593 | .0539 | .0497 | .0464 | |
| .520 | -1.76 | 1.000 | .200 | 11.80 | .0541 | .0487 | .0437 | .0401 | .0584 | .0536 | .0490 | .0454 | |

RESISTANCE DATA SERIES 65-4 MODFL 5249

TP/BYX = 4.66 DEADRISE ANGLE = 14.8 DEG FNO = 1.75

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 75.4 162.5 16.2 35.0 75.4 167.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.50 | .835 | .741 | 7.30 | .1126 | .1077 | .1038 | .1008 | .1170 | .1121 | .1081 | .1052 | |
| .440 | 2.17 | .943 | .787 | 7.55 | .1019 | .0970 | .0931 | .0899 | .1066 | .1016 | .0977 | .0946 | |
| .480 | -.85 | .986 | .676 | 8.08 | .0953 | .0900 | .0859 | .0826 | .1002 | .0950 | .0909 | .0876 | |
| .520 | -1.55 | .998 | .974 | 8.31 | .1005 | .0952 | .0910 | .0877 | .1056 | .1003 | .0961 | .0927 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 47.7 112.2 175.0 17.5 37.7 81.2 175.6

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 4.57 | .707 | .676 | 7.52 | .1224 | .1177 | .1137 | .1105 | .1274 | .1223 | .1183 | .1151 | |
| .400 | 2.66 | .843 | .720 | 8.01 | .1019 | .0966 | .0924 | .0891 | .1063 | .1015 | .0974 | .0940 | |
| .440 | 1.50 | .935 | .774 | 8.48 | .0919 | .0865 | .0822 | .0788 | .0971 | .0916 | .0873 | .0839 | |
| .480 | -.50 | .983 | .852 | 9.14 | .0800 | .0746 | .0703 | .0674 | .0935 | .0878 | .0833 | .0798 | |
| .520 | -1.75 | .997 | .981 | 9.37 | .0941 | .0882 | .0836 | .0798 | .0999 | .0940 | .0897 | .0856 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.50 | .730 | .665 | 8.34 | .1083 | .1027 | .0986 | .0949 | .1134 | .1074 | .1035 | .1000 | |
| .400 | 2.00 | .855 | .702 | 8.76 | .0904 | .0847 | .0802 | .0766 | .0958 | .0901 | .0856 | .0820 | |
| .440 | -.94 | .949 | .758 | 9.12 | .0840 | .0780 | .0733 | .0695 | .0897 | .0837 | .0790 | .0753 | |
| .480 | -1.02 | .993 | .842 | 9.55 | .0730 | .0670 | .0623 | .0584 | .0809 | .0749 | .0701 | .0653 | |
| .520 | -1.00 | .996 | .906 | 9.56 | .0907 | .0847 | .0800 | .0762 | .0965 | .0905 | .0858 | .0820 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.6 200.0 20.1 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.50 | .677 | .651 | 8.39 | .1171 | .1115 | .1070 | .1035 | .1223 | .1166 | .1121 | .1086 | |
| .360 | 2.65 | .756 | .651 | 8.72 | .0942 | .0881 | .0833 | .0795 | .0998 | .0937 | .0890 | .0852 | |
| .400 | 1.47 | .876 | .696 | 9.08 | .0834 | .0774 | .0724 | .0684 | .0894 | .0835 | .0785 | .0745 | |
| .440 | -.54 | .968 | .732 | 9.46 | .0740 | .0674 | .0622 | .0581 | .0801 | .0740 | .0695 | .0654 | |
| .480 | -1.34 | .991 | .756 | 9.96 | .0633 | .0561 | .0501 | .0452 | .0684 | .0622 | .0575 | .0533 | |
| .520 | -1.00 | .996 | .743 | 9.12 | .0836 | .0775 | .0727 | .0688 | .0906 | .0845 | .0797 | .0744 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.0 94.6 212.5 21.2 45.0 96.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.50 | .657 | .641 | 9.15 | .1019 | .0954 | .0910 | .0872 | .1075 | .1014 | .0966 | .0928 | |
| .360 | 2.00 | .774 | .641 | 9.32 | .0842 | .0785 | .0733 | .0690 | .0915 | .0844 | .0796 | .0754 | |
| .400 | -.07 | .902 | .641 | 11.01 | .0724 | .0655 | .0604 | .0566 | .0802 | .0722 | .0673 | .0623 | |
| .440 | 1.14 | .965 | .657 | 11.10 | .0793 | .0723 | .0664 | .0624 | .0861 | .0771 | .0726 | .0692 | |
| .480 | -1.56 | .945 | .504 | 10.87 | .0759 | .0689 | .0635 | .0592 | .0825 | .0756 | .0702 | .0654 | |
| .520 | -1.23 | .991 | .544 | 10.70 | .0773 | .0705 | .0651 | .0608 | .0839 | .0770 | .0717 | .0674 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 44.5 104.4 225.0 22.5 44.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.62 | .648 | .636 | 9.93 | .0875 | .0810 | .0759 | .0718 | .0936 | .0871 | .0820 | .0779 | |
| .360 | 1.40 | .814 | .636 | 10.89 | .0746 | .0672 | .0622 | .0582 | .0807 | .0733 | .0683 | .0645 | |
| .400 | -.50 | .919 | .637 | 11.27 | .0607 | .0536 | .0481 | .0436 | .0675 | .0605 | .0549 | .0505 | |
| .440 | 1.15 | .959 | .516 | 11.13 | .0772 | .0701 | .0645 | .0601 | .0800 | .0729 | .0673 | .0630 | |
| .480 | -1.77 | .982 | .480 | 11.05 | .0757 | .0686 | .0630 | .0585 | .0824 | .0753 | .0697 | .0653 | |
| .520 | -1.37 | .993 | .371 | 11.10 | .0779 | .0707 | .0651 | .0606 | .0847 | .0775 | .0719 | .0674 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.7 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .710 | .568 | 10.53 | .0744 | .0676 | .0622 | .0579 | .0794 | .0721 | .0672 | .0624 | |
| .360 | 1.00 | .831 | .599 | 10.69 | .0781 | .0713 | .0660 | .0617 | .0846 | .0773 | .0725 | .0682 | |
| .400 | -.26 | .910 | .518 | 10.64 | .0746 | .0679 | .0626 | .0582 | .0851 | .0778 | .0731 | .0688 | |
| .440 | 1.78 | .956 | .345 | 10.65 | .0770 | .0702 | .0648 | .0604 | .0835 | .0767 | .0713 | .0669 | |
| .480 | -.92 | .982 | .249 | 10.81 | .0772 | .0701 | .0646 | .0601 | .0834 | .0767 | .0712 | .0667 | |
| .520 | -1.41 | .997 | .227 | 11.16 | .0795 | .0722 | .0665 | .0619 | .0863 | .0790 | .0733 | .0687 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 57.8 110.0 249.0 25.0 53.4 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.59 | .729 | .541 | 10.40 | .0774 | .0711 | .0658 | .0616 | .0842 | .0775 | .0722 | .0680 | |
| .360 | -.71 | .837 | .523 | 10.83 | .0784 | .0720 | .0670 | .0630 | .0845 | .0782 | .0732 | .0692 | |
| .400 | 1.03 | .908 | .367 | 9.92 | .0774 | .0715 | .0665 | .0625 | .0829 | .0775 | .0725 | .0685 | |
| .440 | -.54 | .955 | .202 | 10.13 | .0772 | .0706 | .0654 | .0612 | .0834 | .0784 | .0736 | .0694 | |
| .480 | 1.09 | .984 | .123 | 10.54 | .0777 | .0707 | .0652 | .0609 | .0841 | .0792 | .0741 | .0703 | |
| .520 | -1.45 | 1.000 | .126 | 11.18 | .0794 | .0720 | .0662 | .0616 | .0862 | .0811 | .0761 | .0725 | |

RESISTANCE DATA SFRIFS 65-A MODEL 600

LP/HPX = 4.66 DEADRISE ANGLE = 14.0 DEG FNV = 2.00

WEIGHT * LIFT (LB, SFANATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 167.5 16.2 35.0 75.4 162.5

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 5.00 | .736 | .704 | 1.13 | .1424 | .1363 | .1314 | .1275 | .1461 | .1420 | .1371 | .1332 |
| .440 | 2.79 | .915 | .875 | 7.92 | .1124 | .1064 | .1015 | .0975 | .1198 | .1125 | .1075 | .1035 |
| .480 | 1.01 | .976 | .960 | 7.72 | .1054 | .0995 | .0945 | .0904 | .1120 | .1047 | .1006 | .0966 |
| .520 | -.52 | .998 | .930 | 8.05 | .1157 | .1091 | .1039 | .0998 | .1155 | .1104 | .1062 | .1022 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 3.50 | .763 | .704 | 7.96 | .1222 | .1154 | .1100 | .1054 | .1285 | .1217 | .1164 | .1121 |
| .440 | 1.72 | .907 | .875 | 8.25 | .1148 | .1080 | .1026 | .0982 | .1114 | .1046 | .0992 | .0948 |
| .480 | .50 | .982 | .917 | 8.78 | .1029 | .0957 | .0901 | .0856 | .1099 | .1024 | .0971 | .0926 |
| .520 | -.69 | .997 | .975 | 9.25 | .1093 | .1016 | .0957 | .0910 | .1164 | .1090 | .1031 | .0984 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 4.31 | .667 | .638 | 7.44 | .1272 | .1204 | .1151 | .1109 | .1334 | .1267 | .1214 | .1171 |
| .440 | 2.39 | .896 | .861 | 8.61 | .1056 | .0984 | .0928 | .0882 | .1125 | .1053 | .0997 | .0951 |
| .480 | 1.18 | .974 | .927 | 9.77 | .0982 | .0908 | .0849 | .0802 | .1054 | .0980 | .0921 | .0875 |
| .520 | -.81 | .995 | .971 | 9.76 | .1041 | .0964 | .0903 | .0854 | .1119 | .1042 | .0981 | .0932 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 5.45 | .589 | .554 | 7.12 | .1339 | .1277 | .1228 | .1180 | .1394 | .1336 | .1285 | .1246 |
| .440 | 3.14 | .704 | .674 | 8.77 | .1108 | .1034 | .0976 | .0929 | .1178 | .1104 | .1046 | .0999 |
| .480 | 1.73 | .830 | .784 | 9.77 | .0985 | .0907 | .0845 | .0796 | .1060 | .0982 | .0921 | .0871 |
| .520 | -.90 | .993 | .957 | 9.71 | .1002 | .0925 | .0865 | .0816 | .1079 | .1003 | .0942 | .0894 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 96.6 212.5 21.2 45.8 96.6 212.5

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 4.00 | .614 | .584 | 8.20 | .1182 | .1111 | .1055 | .1010 | .1244 | .1177 | .1121 | .1076 |
| .440 | 2.25 | .745 | .711 | 10.02 | .1015 | .0931 | .0866 | .0817 | .1095 | .1011 | .0946 | .0893 |
| .480 | 1.14 | .863 | .817 | 10.44 | .0956 | .0872 | .0805 | .0752 | .1040 | .0955 | .0889 | .0835 |
| .520 | -.37 | .977 | .931 | 10.48 | .0929 | .0846 | .0779 | .0726 | .1013 | .0929 | .0863 | .0810 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 3.04 | .643 | .614 | 9.51 | .1022 | .0942 | .0878 | .0828 | .1100 | .1016 | .0954 | .0904 |
| .440 | 1.52 | .782 | .731 | 10.72 | .0899 | .0812 | .0743 | .0688 | .1085 | .1007 | .0929 | .0873 |
| .480 | .56 | .887 | .834 | 11.07 | .0894 | .0809 | .0739 | .0683 | .1086 | .0998 | .0926 | .0872 |
| .520 | -1.17 | .991 | .939 | 11.62 | .0974 | .0878 | .0802 | .0741 | .1047 | .0971 | .0894 | .0833 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 2.18 | .682 | .656 | 10.31 | .0879 | .0794 | .0737 | .0683 | .1022 | .0936 | .0879 | .0825 |
| .440 | .97 | .820 | .770 | 11.29 | .0824 | .0734 | .0662 | .0605 | .1014 | .0924 | .0853 | .0805 |
| .480 | .37 | .888 | .838 | 11.71 | .0860 | .0767 | .0693 | .0633 | .1044 | .0950 | .0876 | .0827 |
| .520 | -.25 | .940 | .885 | 12.09 | .0908 | .0809 | .0731 | .0669 | .1005 | .0906 | .0824 | .0765 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 54.8 116.0 249.9 25.0 54.8 116.0 249.9

| LOG LP (NEG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 1.52 | .726 | .671 | 10.91 | .0764 | .0675 | .0616 | .0550 | .0951 | .0863 | .0793 | .0737 |
| .440 | .67 | .827 | .785 | 11.61 | .0807 | .0715 | .0642 | .0583 | .0900 | .0808 | .0735 | .0675 |
| .480 | .12 | .888 | .831 | 12.05 | .0864 | .0770 | .0694 | .0632 | .0964 | .0867 | .0790 | .0728 |
| .520 | -1.29 | .998 | .947 | 12.81 | .0941 | .0839 | .0757 | .0692 | .1041 | .0947 | .0866 | .0791 |

RESISTANCE OAT4 SERIES 65-A MODFL 5249

LP/PPX = 4.66 DEADWISE ANGLE = 14.8 DEG FNV = 2.50

WEIGHT = L I F T (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 5.11 | .686 | .611 | 5.32 | .1457 | .1387 | .1332 | .1288 | .1524 | .1434 | .1399 | .1355 |
| .400 | 4.80 | .646 | .627 | 5.49 | .1430 | .1358 | .1302 | .1256 | .1499 | .1427 | .1370 | .1326 |
| .440 | 3.19 | .755 | .684 | 6.02 | .1351 | .1263 | .1193 | .1138 | .1438 | .1350 | .1280 | .1224 |
| .480 | 1.30 | .924 | .764 | 6.31 | .1229 | .1227 | .1146 | .1081 | .1433 | .1330 | .1249 | .1185 |
| .520 | -1.40 | .995 | .894 | 9.03 | .1467 | .1359 | .1273 | .1203 | .1500 | .1472 | .1386 | .1316 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 5.00 | .595 | .566 | 5.66 | .1422 | .1348 | .1289 | .1243 | .1493 | .1419 | .1360 | .1313 |
| .400 | 3.50 | .682 | .627 | 6.89 | .1309 | .1224 | .1156 | .1102 | .1393 | .1307 | .1239 | .1185 |
| .440 | 7.36 | .741 | .669 | 7.92 | .1279 | .1179 | .1101 | .1038 | .1378 | .1278 | .1200 | .1137 |
| .480 | 1.50 | .965 | .759 | 9.65 | .1333 | .1220 | .1134 | .1064 | .1443 | .1333 | .1247 | .1177 |
| .520 | -1.65 | .992 | .867 | 10.13 | .1449 | .1324 | .1233 | .1156 | .1576 | .1455 | .1359 | .1283 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 4.64 | .607 | .557 | 6.57 | .1307 | .1222 | .1155 | .1102 | .1388 | .1304 | .1237 | .1184 |
| .400 | 2.68 | .710 | .616 | 7.93 | .1235 | .1134 | .1060 | .0996 | .1337 | .1237 | .1159 | .1095 |
| .440 | 1.38 | .847 | .672 | 9.12 | .1233 | .1121 | .1037 | .0962 | .1347 | .1235 | .1147 | .1076 |
| .480 | 1.18 | .968 | .751 | 10.23 | .1290 | .1164 | .1071 | .0993 | .1418 | .1296 | .1199 | .1121 |
| .520 | -1.74 | .987 | .858 | 11.19 | .1405 | .1274 | .1170 | .1086 | .1546 | .1414 | .1310 | .1226 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.63 | .536 | .473 | 5.76 | .1274 | .1203 | .1144 | .1096 | .1351 | .1275 | .1215 | .1168 |
| .360 | 3.14 | .638 | .547 | 7.44 | .1222 | .1127 | .1052 | .0992 | .1315 | .1220 | .1145 | .1085 |
| .400 | 2.00 | .737 | .619 | 9.16 | .1196 | .1083 | .0993 | .0921 | .1311 | .1197 | .1107 | .1035 |
| .440 | 1.11 | .875 | .666 | 10.58 | .1195 | .1064 | .0967 | .0886 | .1327 | .1199 | .1099 | .1018 |
| .480 | 0.07 | .951 | .774 | 11.50 | .1263 | .1124 | .1017 | .0930 | .1403 | .1264 | .1160 | .1074 |
| .520 | -1.86 | .944 | .873 | 17.14 | .1405 | .1264 | .1153 | .1063 | .1547 | .1416 | .1304 | .1214 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.72 | .562 | .469 | 6.43 | .1211 | .1128 | .1062 | .1010 | .1292 | .1208 | .1143 | .1090 |
| .360 | 2.39 | .656 | .562 | 8.90 | .1182 | .1071 | .0983 | .0913 | .1294 | .1182 | .1095 | .1024 |
| .400 | 1.71 | .747 | .614 | 10.67 | .1182 | .1052 | .0950 | .0867 | .1315 | .1197 | .1087 | .1001 |
| .440 | 0.39 | .844 | .675 | 11.79 | .1214 | .1078 | .0967 | .0878 | .1366 | .1226 | .1115 | .1025 |
| .480 | -1.39 | .950 | .798 | 12.70 | .1287 | .1150 | .1023 | .0928 | .1446 | .1295 | .1181 | .1087 |
| .520 | -1.07 | .946 | .859 | 13.37 | .1423 | .1270 | .1148 | .1050 | .1590 | .1437 | .1315 | .1217 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.94 | .548 | .491 | 7.86 | .1144 | .1049 | .0970 | .0907 | .1246 | .1147 | .1068 | .1005 |
| .360 | 1.71 | .609 | .568 | 10.49 | .1147 | .1018 | .0916 | .0835 | .1278 | .1149 | .1044 | .0966 |
| .400 | 0.77 | .674 | .600 | 11.86 | .1173 | .1031 | .0919 | .0828 | .1321 | .1179 | .1067 | .0977 |
| .440 | 0.03 | .704 | .643 | 13.01 | .1216 | .1064 | .0943 | .0846 | .1379 | .1227 | .1106 | .1009 |
| .480 | -1.57 | .856 | .768 | 13.92 | .1289 | .1128 | .1001 | .0898 | .1462 | .1302 | .1185 | .1072 |
| .520 | -1.11 | .949 | .775 | 14.58 | .1497 | .1240 | .1108 | .1001 | .1589 | .1422 | .1295 | .1183 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 57.8 116.0 249.9 25.0 57.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.27 | .619 | .504 | 9.52 | .1115 | .0996 | .0902 | .0827 | .1236 | .1115 | .1021 | .0946 |
| .360 | 1.18 | .744 | .567 | 11.66 | .1151 | .1011 | .0899 | .0810 | .1297 | .1156 | .1045 | .0955 |
| .400 | 0.42 | .837 | .600 | 12.98 | .1210 | .1056 | .0934 | .0836 | .1372 | .1214 | .1097 | .0999 |
| .440 | -1.21 | .919 | .675 | 14.18 | .1274 | .1109 | .0977 | .0872 | .1451 | .1286 | .1155 | .1049 |
| .480 | -1.73 | .961 | .677 | 15.04 | .1361 | .1189 | .1051 | .0940 | .1551 | .1377 | .1239 | .1124 |
| .520 | -1.21 | .924 | .624 | 15.62 | .1483 | .1307 | .1159 | .1044 | .1678 | .1498 | .1354 | .1239 |

RESISTANCE DATA SERIES 65-A MODEL 5249

LP/BPX = 4.66

DEADRISE ANGLE = 14.8 DEG

FHW = 3.00

WEIGHT = LIFT (LB, SEAMATFR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5

LP (FT) = 15.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.81 | .512 | .472 | 4.66 | .1074 | .0986 | .0917 | .0862 | .1158 | .1070 | .1001 | .0946 | |
| .360 | 2.78 | .508 | .515 | 5.54 | .1156 | .1054 | .0974 | .0909 | .1256 | .1156 | .1073 | .1009 | |
| .400 | 1.67 | .678 | .563 | 6.50 | .1164 | .1061 | .0981 | .0901 | .1401 | .1284 | .1192 | .1118 | |
| .440 | .04 | .828 | .664 | 7.80 | .1500 | .1365 | .1258 | .1172 | .1640 | .1505 | .1399 | .1313 | |
| .480 | -1.99 | .687 | .898 | 10.83 | .2485 | .2309 | .2169 | .2057 | .2671 | .2495 | .2355 | .2243 | |

LP/V(1/3) = 6.0

LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 5.00 | .486 | .442 | 4.65 | .1379 | .1292 | .1223 | .1168 | .1463 | .1375 | .1306 | .1251 | |
| .360 | 3.67 | .542 | .522 | 5.87 | .1214 | .1111 | .1027 | .0960 | .1323 | .1217 | .1133 | .1065 | |
| .400 | 2.74 | .653 | .576 | 6.87 | .1129 | .1027 | .1111 | .1034 | .1453 | .1331 | .1235 | .1157 | |
| .440 | 2.00 | .724 | .621 | 7.73 | .1474 | .1339 | .1233 | .1147 | .1613 | .1479 | .1381 | .1286 | |
| .480 | 1.15 | .847 | .666 | 8.71 | .1504 | .1436 | .1318 | .1224 | .1740 | .1592 | .1475 | .1381 | |

LP/V(1/3) = 4.5

LP (FT) = 21.2 45.1 98.6 212.5 21.2 45.6 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.74 | .493 | .432 | 5.05 | .1461 | .1367 | .1293 | .1234 | .1552 | .1458 | .1384 | .1325 | |
| .360 | 3.50 | .549 | .512 | 6.50 | .1426 | .1309 | .1217 | .1143 | .1542 | .1426 | .1334 | .1260 | |
| .400 | 2.64 | .669 | .575 | 7.71 | .1447 | .1312 | .1206 | .1120 | .1586 | .1451 | .1344 | .1259 | |
| .440 | 1.87 | .757 | .630 | 8.80 | .1505 | .1353 | .1232 | .1135 | .1665 | .1513 | .1392 | .1295 | |
| .480 | 1.16 | .860 | .670 | 10.82 | .1593 | .1425 | .1292 | .1186 | .1773 | .1605 | .1472 | .1365 | |
| .520 | .50 | .950 | .721 | 11.12 | .1704 | .1521 | .1376 | .1259 | .1904 | .1722 | .1576 | .1459 | |

LP/V(1/3) = 3.0

LP (FT) = 22.5 41.5 104.4 229.6 22.5 48.5 104.4 229.6

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.81 | .517 | .432 | 6.01 | .1408 | .1298 | .1211 | .1142 | .1516 | .1406 | .1319 | .1250 | |
| .360 | 2.77 | .610 | .512 | 7.65 | .1372 | .1237 | .1131 | .1045 | .1510 | .1375 | .1268 | .1182 | |
| .400 | 2.00 | .692 | .576 | 9.04 | .1392 | .1226 | .1103 | .1006 | .1544 | .1389 | .1266 | .1167 | |
| .440 | 1.18 | .805 | .625 | 10.52 | .1484 | .1307 | .1167 | .1055 | .1673 | .1496 | .1356 | .1244 | |
| .480 | .50 | .894 | .673 | 11.74 | .1607 | .1414 | .1261 | .1137 | .1818 | .1625 | .1472 | .1348 | |
| .520 | -1.18 | .962 | .756 | 13.80 | .1674 | .1464 | .1297 | .1162 | .1908 | .1698 | .1531 | .1396 | |

LP/V(1/3) = 1.5

LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.05 | .545 | .445 | 7.39 | .1289 | .1188 | .1052 | .0968 | .1421 | .1289 | .1185 | .1101 | |
| .360 | 2.00 | .644 | .527 | 9.35 | .1298 | .1137 | .1009 | .0906 | .1467 | .1305 | .1177 | .1074 | |
| .400 | 1.24 | .742 | .575 | 10.77 | .1421 | .1239 | .1095 | .0979 | .1614 | .1433 | .1289 | .1172 | |
| .440 | .50 | .838 | .624 | 12.11 | .1581 | .1381 | .1227 | .1094 | .1798 | .1599 | .1440 | .1312 | |
| .480 | -0.13 | .922 | .697 | 13.34 | .1648 | .1432 | .1261 | .1122 | .1888 | .1672 | .1508 | .1382 | |
| .520 | -0.74 | .970 | .754 | 14.41 | .1802 | .1572 | .1389 | .1241 | .2062 | .1832 | .1648 | .1501 | |

LP/V(1/3) = 0.0

LP (FT) = 25.0 53.8 116.8 219.9 25.0 53.8 116.8 219.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.40 | .567 | .453 | 8.82 | .1269 | .1114 | .0991 | .0892 | .1428 | .1272 | .1150 | .1051 | |
| .360 | 1.58 | .665 | .519 | 10.61 | .1391 | .1217 | .1066 | .0951 | .1582 | .1408 | .1257 | .1142 | |
| .400 | .75 | .770 | .574 | 12.12 | .1593 | .1392 | .1232 | .1103 | .1811 | .1610 | .1450 | .1321 | |
| .440 | .08 | .859 | .644 | 13.58 | .1703 | .1482 | .1307 | .1165 | .1947 | .1726 | .1551 | .1409 | |
| .480 | -0.48 | .928 | .694 | 14.85 | .1796 | .1559 | .1370 | .1217 | .2063 | .1826 | .1637 | .1484 | |
| .520 | -1.00 | .977 | .712 | 15.84 | .1962 | .1711 | .1511 | .1349 | .2247 | .1996 | .1796 | .1634 | |

RESISTANCE DATA SERIES 65-A MODFL 5249

LP/APP = 4.66

DEADRISE ANGLE = 14.0 DEG

FND = 3.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.37 | .639 | .418 | 7.03 | .1487 | .1320 | .1188 | .1082 | .1659 | .1492 | .1360 | .1254 |
| .360 | 1.69 | .623 | .477 | 8.50 | .1592 | .1395 | .1240 | .1115 | .1800 | .1604 | .1448 | .1323 |
| .400 | 1.07 | .707 | .530 | 9.92 | .1701 | .1478 | .1300 | .1157 | .1944 | .1721 | .1543 | .1400 |
| .440 | .50 | .781 | .581 | 11.19 | .1832 | .1585 | .1388 | .1229 | .2106 | .1859 | .1662 | .1503 |
| .480 | .08 | .773 | .576 | 11.06 | .1829 | .1584 | .1389 | .1232 | .2099 | .1855 | .1660 | .1503 |
| .520 | .08 | .835 | .620 | 12.06 | .1872 | .1609 | .1400 | .1231 | .2167 | .1905 | .1695 | .1526 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.72 | .583 | .402 | 7.74 | .1570 | .1399 | .1263 | .1154 | .1747 | .1576 | .1441 | .1332 |
| .360 | 2.00 | .625 | .471 | 8.97 | .1649 | .1444 | .1281 | .1150 | .1869 | .1664 | .1501 | .1370 |
| .400 | 1.79 | .711 | .531 | 10.71 | .1777 | .1538 | .1349 | .1196 | .2039 | .1801 | .1611 | .1458 |
| .440 | .85 | .791 | .587 | 12.32 | .1933 | .1664 | .1451 | .1278 | .2235 | .1966 | .1752 | .1580 |
| .480 | .43 | .858 | .632 | 13.50 | .2067 | .1775 | .1543 | .1355 | .2400 | .2108 | .1875 | .1688 |
| .520 | .05 | .911 | .663 | 14.48 | .2129 | .1822 | .1577 | .1379 | .2484 | .2175 | .1931 | .1733 |

RESISTANCE DATA SERIES 65-A MODEL 5249

LP/PPX = 4.66 DEADRISE ANGLE = 14.6 DEG FNV = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1003000 1000 10000 100000 1000000

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.4 53.8 116.0 249.9

| LCG | TRIM | LK | LC | s | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | |
| 0.00 | 0.00 | .540 | .397 | 8.08 | .2035 | .1793 | .1601 | .1446 | .2294 | .2051 | .1859 | .1704 |
| .360 | .84 | .618 | .449 | 9.50 | .2136 | .1859 | .1638 | .1460 | .2439 | .2182 | .1942 | .1764 |
| .400 | .26 | .697 | .503 | 10.73 | .2273 | .1967 | .1723 | .1526 | .2616 | .2310 | .2066 | .1869 |
| .440 | es | .745 | .560 | 11.77 | .2491 | .2161 | .1898 | .1686 | .2868 | .2538 | .2275 | .2062 |
| .480 | .82 | .792 | .623 | 12.61 | .2824 | .2480 | .2203 | .1979 | .3231 | .2884 | .2606 | .2382 |
| .520 | -1.35 | .826 | .695 | 13.23 | .3331 | .2971 | .2684 | .2452 | .3754 | .3395 | .3107 | .2875 |

RESISTANCE DATA SERIES 69-1 MODEL 5194

LP/PPK = 4.65 DECOMPSIF ANGLE = 70.5 DFC FND = 1.00

WEIGHT = LIFT (L₁, C₁AWATFR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(L/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 2.35 | .740 | .474 | 4.74 | .0308 | .0382 | .0365 | .0397 | .0452 | .0384 | .0374 | .0382 | .0466 |
| .400 | 2.41 | .742 | .500 | 5.24 | .0304 | .0382 | .0365 | .0397 | .0452 | .0384 | .0374 | .0382 | .0466 |
| .400 | 1.14 | .964 | .596 | 6.39 | .0445 | .0388 | .0366 | .0376 | .0427 | .0441 | .0399 | .0389 | .0402 |
| .440 | -1.57 | 1.030 | .612 | 6.62 | .0489 | .0372 | .0359 | .0348 | .0402 | .0385 | .0372 | .0362 | .0362 |
| .400 | -2.29 | 1.000 | .587 | 5.90 | .0479 | .0423 | .0411 | .0402 | .0449 | .0434 | .0423 | .0414 | .0414 |

LP/W(L/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 2.47 | .773 | .511 | 7.40 | .0462 | .0443 | .0429 | .0417 | .0476 | .0459 | .0444 | .0432 | .0432 |
| .400 | 2.24 | .992 | .517 | 6.81 | .0387 | .0329 | .0316 | .0306 | .0360 | .0343 | .0330 | .0319 | .0319 |
| .440 | -1.09 | 1.030 | .544 | 6.75 | .0332 | .0262 | .0250 | .0237 | .0286 | .0269 | .0256 | .0245 | .0245 |
| .400 | -2.45 | 1.000 | .563 | 6.63 | .0347 | .0340 | .0327 | .0317 | .0370 | .0353 | .0341 | .0331 | .0331 |
| .520 | -3.94 | 1.000 | .557 | 6.94 | .0405 | .0388 | .0375 | .0364 | .0419 | .0402 | .0388 | .0376 | .0376 |

LP/W(L/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 2.89 | .859 | .472 | 6.90 | .0434 | .0417 | .0403 | .0392 | .0444 | .0430 | .0417 | .0406 | .0406 |
| .360 | 1.01 | .979 | .431 | 6.97 | .0338 | .0279 | .0264 | .0254 | .0310 | .0293 | .0280 | .0269 | .0269 |
| .400 | -1.26 | .993 | .457 | 7.11 | .0290 | .0226 | .0214 | .0202 | .0254 | .0237 | .0224 | .0213 | .0213 |
| .440 | -1.44 | .996 | .474 | 7.08 | .0274 | .0257 | .0243 | .0232 | .0286 | .0269 | .0257 | .0246 | .0246 |
| .400 | -2.51 | 1.000 | .483 | 6.92 | .0305 | .0288 | .0275 | .0264 | .0319 | .0302 | .0289 | .0278 | .0278 |
| .400 | -3.00 | 1.000 | .477 | 6.67 | .0346 | .0330 | .0317 | .0307 | .0360 | .0343 | .0330 | .0320 | .0320 |

LP/W(L/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.27 | .933 | .377 | 7.03 | .0388 | .0326 | .0313 | .0302 | .0354 | .0341 | .0327 | .0316 | .0316 |
| .360 | 1.49 | .971 | .379 | 7.22 | .0311 | .0243 | .0230 | .0218 | .0276 | .0259 | .0246 | .0235 | .0235 |
| .400 | -1.57 | .989 | .396 | 7.31 | .0261 | .0247 | .0229 | .0218 | .0276 | .0259 | .0246 | .0235 | .0235 |
| .440 | -1.60 | .994 | .399 | 7.22 | .0244 | .0231 | .0217 | .0206 | .0263 | .0246 | .0233 | .0222 | .0222 |
| .400 | -2.56 | .997 | .337 | 6.38 | .0264 | .0248 | .0236 | .0226 | .0277 | .0261 | .0248 | .0239 | .0239 |
| .520 | -3.62 | 1.000 | .345 | 4.93 | .0310 | .0300 | .0292 | .0285 | .0338 | .0328 | .0318 | .0308 | .0308 |

LP/W(L/3) = 8.0 LP (FT) = 20.0 43.1 92.4 200.0 20.0 43.1 92.4 200.0

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.57 | .989 | .331 | 7.20 | .0334 | .0246 | .0232 | .0221 | .0274 | .0261 | .0247 | .0236 | .0236 |
| .360 | 1.0 | .947 | .339 | 7.50 | .0284 | .0266 | .0251 | .0240 | .0299 | .0281 | .0266 | .0255 | .0255 |
| .400 | -1.09 | .999 | .347 | 7.54 | .0249 | .0222 | .0207 | .0196 | .0255 | .0237 | .0222 | .0211 | .0211 |
| .440 | -1.72 | .992 | .319 | 7.15 | .0217 | .0201 | .0184 | .0177 | .0233 | .0216 | .0202 | .0191 | .0191 |
| .400 | -2.55 | .994 | .219 | 5.72 | .0227 | .0209 | .0198 | .0189 | .0245 | .0228 | .0214 | .0203 | .0203 |
| .520 | -3.57 | 1.000 | 0.000 | 1.98 | .0276 | .0271 | .0267 | .0263 | .0280 | .0275 | .0271 | .0267 | .0267 |

LP/W(L/3) = 8.5 LP (FT) = 21.7 45.4 98.6 212.5 21.7 45.4 98.6 212.5

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.79 | .983 | .295 | 7.62 | .0340 | .0222 | .0208 | .0196 | .0255 | .0237 | .0222 | .0211 | .0211 |
| .360 | -1.20 | .966 | .288 | 7.70 | .0280 | .0261 | .0246 | .0235 | .0296 | .0277 | .0262 | .0250 | .0250 |
| .400 | -1.01 | .987 | .276 | 7.57 | .0233 | .0214 | .0200 | .0188 | .0248 | .0229 | .0215 | .0203 | .0203 |
| .440 | -1.74 | .990 | .238 | 6.84 | .0205 | .0188 | .0179 | .0169 | .0219 | .0202 | .0189 | .0178 | .0178 |
| .400 | -2.86 | .991 | .144 | 5.28 | .0254 | .0191 | .0181 | .0173 | .0214 | .0201 | .0191 | .0181 | .0181 |
| .520 | -3.24 | 1.000 | 0.000 | 1.92 | .0248 | .0243 | .0239 | .0236 | .0252 | .0247 | .0243 | .0240 | .0240 |

LP/W(L/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.40 | .971 | .255 | 7.64 | .0323 | .0204 | .0198 | .0187 | .0246 | .0229 | .0215 | .0203 | .0203 |
| .360 | -1.38 | .964 | .237 | 7.82 | .0259 | .0240 | .0225 | .0213 | .0275 | .0256 | .0241 | .0229 | .0229 |
| .400 | -1.09 | .985 | .228 | 7.61 | .0212 | .0193 | .0179 | .0168 | .0226 | .0208 | .0194 | .0183 | .0183 |
| .440 | -1.74 | .989 | .164 | 6.67 | .0194 | .0169 | .0156 | .0146 | .0197 | .0181 | .0169 | .0159 | .0159 |
| .400 | -2.84 | .999 | .088 | 4.78 | .0192 | .0176 | .0161 | .0154 | .0211 | .0194 | .0178 | .0167 | .0167 |
| .520 | -3.18 | .994 | 0.000 | 1.91 | .0222 | .0216 | .0212 | .0209 | .0225 | .0219 | .0216 | .0213 | .0213 |

LP/W(L/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.25 | .981 | .209 | 7.81 | .0294 | .0276 | .0261 | .0250 | .0311 | .0292 | .0277 | .0265 | .0265 |
| .360 | -1.57 | .966 | .176 | 7.91 | .0224 | .0208 | .0193 | .0181 | .0244 | .0226 | .0209 | .0197 | .0197 |
| .400 | -1.15 | .984 | .147 | 7.10 | .0187 | .0169 | .0154 | .0143 | .0199 | .0182 | .0168 | .0156 | .0156 |
| .440 | -1.77 | .987 | .104 | 5.91 | .0162 | .0148 | .0138 | .0127 | .0184 | .0167 | .0154 | .0143 | .0143 |
| .400 | -2.20 | .987 | .056 | 4.94 | .0167 | .0152 | .0143 | .0136 | .0171 | .0154 | .0142 | .0134 | .0134 |
| .400 | -2.96 | .990 | 0.000 | 2.24 | .0199 | .0197 | .0194 | .0185 | .0203 | .0197 | .0193 | .0189 | .0189 |

LP/W(L/3) = 10.0 LP (FT) = 25.0 54.8 116.8 249.4 25.0 54.8 116.8 249.4

| LCG LP (FT) | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| .760 | 1.07 | .984 | .161 | 7.89 | .0259 | .0240 | .0224 | .0212 | .0275 | .0256 | .0240 | .0228 | .0228 |
| .360 | -1.81 | .963 | .123 | 7.79 | .0193 | .0174 | .0159 | .0148 | .0209 | .0190 | .0174 | .0163 | .0163 |
| .400 | -1.19 | .980 | .088 | 6.78 | .0156 | .0140 | .0127 | .0117 | .0174 | .0157 | .0144 | .0133 | .0133 |
| .440 | -1.71 | .984 | .043 | 5.43 | .0140 | .0127 | .0116 | .0108 | .0154 | .0137 | .0127 | .0117 | .0117 |
| .400 | -2.24 | .986 | .027 | 4.06 | .0144 | .0134 | .0126 | .0120 | .0152 | .0142 | .0134 | .0124 | .0124 |
| .520 | -2.84 | .987 | .014 | 2.60 | .0179 | .0172 | .0167 | .0163 | .0184 | .0178 | .0173 | .0169 | .0169 |

RESISTANCE DATA SERIES 65-A MODEL 519A

LP/PPV = 4.66 DEVIATION ANGLE = 20.4 DEG FWH = 1.25

WEIGHT = LIFT (LB, SEAMATER) = 100 1000 10000 100000 100 1000 10000 100000

LP/W(1/3) = 4.0 LP (FT) = 15.0 72.3 49.6 150.0 15.0 32.3 49.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.97 | .970 | .749 | 7.26 | .0937 | .0910 | .0889 | .0873 | .0900 | .0933 | .0912 | .0895 | |
| .440 | .97 | .995 | .856 | 8.46 | .0750 | .0726 | .0707 | .0692 | .0720 | .0746 | .0727 | .0712 | |
| .480 | -5.53 | 1.000 | .525 | 8.19 | .0787 | .0754 | .0736 | .0722 | .0746 | .0763 | .0745 | .0731 | |
| .520 | -2.35 | 1.000 | .544 | 5.33 | .0825 | .0805 | .0789 | .0777 | .0802 | .0822 | .0806 | .0794 | |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 1.77 | .966 | .623 | 7.27 | .0716 | .0690 | .0669 | .0652 | .0679 | .0712 | .0691 | .0675 | |
| .440 | .37 | .997 | .637 | 6.76 | .0667 | .0638 | .0619 | .0603 | .0634 | .0659 | .0640 | .0624 | |
| .480 | -1.17 | 1.000 | .464 | 6.33 | .0554 | .0533 | .0516 | .0501 | .0532 | .0552 | .0535 | .0520 | |
| .520 | -2.51 | 1.000 | .370 | 6.26 | .0709 | .0689 | .0673 | .0661 | .0685 | .0705 | .0689 | .0677 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 2.65 | .869 | .613 | 7.77 | .0772 | .0744 | .0721 | .0704 | .0736 | .0768 | .0746 | .0728 | |
| .400 | 1.12 | .966 | .480 | 7.12 | .0664 | .0634 | .0617 | .0601 | .0632 | .0660 | .0640 | .0623 | |
| .440 | -.36 | .997 | .460 | 7.07 | .0545 | .0519 | .0499 | .0483 | .0514 | .0541 | .0521 | .0505 | |
| .480 | -1.51 | .999 | .406 | 6.33 | .0551 | .0528 | .0509 | .0495 | .0521 | .0548 | .0529 | .0515 | |
| .520 | -2.66 | 1.000 | .334 | 5.92 | .0625 | .0604 | .0588 | .0575 | .0602 | .0621 | .0605 | .0592 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.62 | .772 | .512 | 7.45 | .0807 | .0779 | .0758 | .0740 | .0770 | .0803 | .0781 | .0764 | |
| .360 | 1.73 | .905 | .422 | 7.20 | .0675 | .0648 | .0627 | .0611 | .0642 | .0671 | .0650 | .0633 | |
| .400 | .42 | .977 | .374 | 7.12 | .0564 | .0536 | .0517 | .0501 | .0532 | .0559 | .0539 | .0523 | |
| .440 | -.79 | .992 | .371 | 7.01 | .0477 | .0451 | .0431 | .0415 | .0446 | .0473 | .0453 | .0437 | |
| .480 | -1.75 | .995 | .310 | 6.10 | .0485 | .0462 | .0444 | .0430 | .0456 | .0481 | .0461 | .0444 | |
| .520 | -2.77 | .997 | .205 | 6.84 | .0550 | .0531 | .0517 | .0506 | .0532 | .0556 | .0537 | .0521 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 7.47 | .814 | .366 | 7.03 | .0544 | .0517 | .0497 | .0480 | .0510 | .0542 | .0521 | .0504 | |
| .360 | 1.00 | .920 | .315 | 6.86 | .0494 | .0466 | .0444 | .0428 | .0458 | .0484 | .0463 | .0446 | |
| .400 | -.09 | .976 | .319 | 7.20 | .0497 | .0466 | .0446 | .0429 | .0459 | .0483 | .0462 | .0445 | |
| .440 | -1.05 | .990 | .293 | 6.85 | .0439 | .0411 | .0394 | .0379 | .0409 | .0435 | .0414 | .0398 | |
| .480 | -1.88 | .992 | .228 | 6.81 | .0437 | .0411 | .0394 | .0379 | .0409 | .0435 | .0414 | .0398 | |
| .520 | -2.78 | .994 | .107 | 4.12 | .0445 | .0418 | .0397 | .0384 | .0414 | .0440 | .0419 | .0402 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.77 | .863 | .279 | 6.06 | .0504 | .0473 | .0453 | .0436 | .0466 | .0494 | .0473 | .0456 | |
| .360 | .59 | .924 | .271 | 6.84 | .0451 | .0421 | .0406 | .0390 | .0420 | .0447 | .0426 | .0409 | |
| .400 | -.43 | .977 | .265 | 7.29 | .0454 | .0427 | .0406 | .0390 | .0420 | .0447 | .0426 | .0409 | |
| .440 | -1.23 | .984 | .226 | 6.74 | .0411 | .0386 | .0367 | .0352 | .0382 | .0407 | .0386 | .0370 | |
| .480 | -2.03 | .990 | .151 | 5.48 | .0404 | .0381 | .0366 | .0353 | .0383 | .0408 | .0387 | .0370 | |
| .520 | -2.74 | .991 | .057 | 3.75 | .0434 | .0410 | .0388 | .0370 | .0400 | .0426 | .0404 | .0387 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 44.5 104.4 225.0 22.5 44.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.77 | .845 | .244 | 6.18 | .0561 | .0527 | .0508 | .0493 | .0523 | .0557 | .0534 | .0517 | |
| .360 | .23 | .920 | .234 | 7.09 | .0486 | .0460 | .0440 | .0424 | .0454 | .0482 | .0461 | .0444 | |
| .400 | -.66 | .979 | .210 | 7.38 | .0428 | .0396 | .0375 | .0359 | .0389 | .0419 | .0398 | .0382 | |
| .440 | -1.34 | .994 | .168 | 6.59 | .0385 | .0361 | .0342 | .0327 | .0357 | .0381 | .0360 | .0344 | |
| .480 | -2.03 | .994 | .106 | 5.26 | .0372 | .0352 | .0337 | .0325 | .0355 | .0379 | .0358 | .0341 | |
| .520 | -2.67 | .998 | .029 | 4.41 | .0395 | .0371 | .0350 | .0332 | .0362 | .0387 | .0366 | .0349 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | .97 | .876 | .225 | 6.41 | .0527 | .0493 | .0475 | .0457 | .0487 | .0521 | .0498 | .0481 | |
| .360 | -.04 | .934 | .197 | 7.48 | .0445 | .0414 | .0396 | .0380 | .0410 | .0441 | .0420 | .0403 | |
| .400 | -1.27 | .979 | .158 | 7.37 | .0388 | .0361 | .0340 | .0327 | .0357 | .0381 | .0360 | .0343 | |
| .440 | -1.41 | .987 | .117 | 6.45 | .0355 | .0332 | .0313 | .0298 | .0328 | .0352 | .0331 | .0314 | |
| .480 | -2.03 | .997 | .160 | 5.12 | .0344 | .0324 | .0311 | .0299 | .0329 | .0352 | .0331 | .0314 | |
| .520 | -2.61 | .996 | .019 | 3.64 | .0364 | .0340 | .0318 | .0301 | .0331 | .0355 | .0334 | .0317 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 57.8 116.0 249.9 25.0 57.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|----------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | .66 | .847 | .190 | 6.76 | .0481 | .0456 | .0437 | .0421 | .0451 | .0487 | .0464 | .0447 | |
| .360 | -.24 | .940 | .157 | 7.76 | .0395 | .0366 | .0344 | .0327 | .0357 | .0381 | .0360 | .0343 | |
| .400 | -.97 | .979 | .107 | 7.38 | .0349 | .0326 | .0305 | .0289 | .0319 | .0341 | .0320 | .0303 | |
| .440 | -1.47 | .986 | .077 | 6.27 | .0319 | .0296 | .0278 | .0263 | .0293 | .0317 | .0296 | .0279 | |
| .480 | -2.07 | .994 | .037 | 4.04 | .0315 | .0291 | .0272 | .0257 | .0287 | .0311 | .0290 | .0273 | |
| .520 | -2.66 | .994 | .016 | 3.71 | .0376 | .0351 | .0328 | .0303 | .0333 | .0358 | .0337 | .0320 | |

RESISTANCE DATA SERIES 64-A MODEL 519A
 LP/WX = 4.64 DEORISF ANGLE = 20.5 DEG FNV = 1.40

WIGHT = LTFT (LW, REAWTFR) = 1000 10004 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.0 LP (FT) = 14.5 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 1.97 | .999 | .695 | 6.42 | .1170 | .1097 | .1071 | .1050 | .1159 | .1125 | .1100 | .1079 | |
| .440 | 2.14 | .940 | .697 | 6.49 | .1011 | .0976 | .0949 | .0926 | .1041 | .1006 | .0980 | .0958 | |
| .480 | 2.46 | .946 | .544 | 6.77 | .0944 | .0913 | .0886 | .0860 | .0971 | .0943 | .0915 | .0896 | |
| .520 | -1.14 | 1.000 | .635 | 4.60 | .1010 | .0941 | .0956 | .0940 | .1035 | .1006 | .0984 | .0966 | |

LP/W(1/3) = 6.4 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 2.70 | .926 | .676 | 7.22 | .0939 | .0902 | .0873 | .0850 | .0971 | .0935 | .0906 | .0883 | |
| .440 | 1.20 | .987 | .619 | 7.14 | .0857 | .0821 | .0792 | .0770 | .0889 | .0853 | .0824 | .0802 | |
| .480 | -1.16 | 1.000 | .510 | 6.57 | .0839 | .0805 | .0779 | .0758 | .0869 | .0835 | .0808 | .0787 | |
| .520 | -1.35 | 1.000 | .350 | 5.44 | .0918 | .0889 | .0867 | .0849 | .0943 | .0914 | .0891 | .0874 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.32 | .872 | .619 | 7.56 | .0860 | .0821 | .0891 | .0867 | .0994 | .0955 | .0925 | .0901 | |
| .440 | 1.75 | .939 | .544 | 7.75 | .0832 | .0793 | .0762 | .0734 | .0867 | .0829 | .0797 | .0773 | |
| .480 | -.51 | .991 | .512 | 7.51 | .0743 | .0725 | .0695 | .0671 | .0797 | .0759 | .0729 | .0705 | |
| .520 | -1.41 | .998 | .246 | 5.41 | .0844 | .0816 | .0794 | .0776 | .0869 | .0840 | .0818 | .0800 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 4.23 | .740 | .512 | 6.91 | .0951 | .0917 | .0889 | .0867 | .0964 | .0948 | .0926 | .0908 | |
| .440 | 2.47 | .847 | .560 | 8.01 | .0876 | .0836 | .0804 | .0778 | .0912 | .0872 | .0840 | .0814 | |
| .480 | 1.10 | .949 | .470 | 7.81 | .0765 | .0726 | .0695 | .0670 | .0800 | .0761 | .0730 | .0705 | |
| .520 | -1.79 | .994 | .326 | 6.65 | .0845 | .0811 | .0784 | .0763 | .0875 | .0841 | .0814 | .0793 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.21 | .767 | .500 | 7.03 | .0894 | .0854 | .0823 | .0798 | .0939 | .0899 | .0864 | .0833 | |
| .440 | 1.67 | .846 | .429 | 7.79 | .0797 | .0756 | .0727 | .0702 | .0832 | .0793 | .0762 | .0737 | |
| .480 | -.57 | .941 | .360 | 7.57 | .0695 | .0656 | .0626 | .0602 | .0729 | .0690 | .0660 | .0636 | |
| .520 | -1.93 | .992 | .241 | 6.25 | .0835 | .0804 | .0779 | .0759 | .0865 | .0832 | .0807 | .0787 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 2.47 | .749 | .395 | 7.64 | .0832 | .0793 | .0762 | .0737 | .0867 | .0827 | .0796 | .0772 | |
| .440 | 1.10 | .843 | .314 | 7.11 | .0730 | .0694 | .0665 | .0642 | .0782 | .0742 | .0710 | .0684 | |
| .480 | -.17 | .950 | .274 | 7.24 | .0644 | .0611 | .0582 | .0559 | .0680 | .0643 | .0614 | .0591 | |
| .520 | -1.76 | .989 | .173 | 5.84 | .0807 | .0777 | .0754 | .0735 | .0833 | .0803 | .0780 | .0761 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 1.74 | .799 | .282 | 6.77 | .0749 | .0714 | .0687 | .0665 | .0788 | .0745 | .0717 | .0696 | |
| .440 | -.11 | .952 | .217 | 7.07 | .0629 | .0592 | .0564 | .0542 | .0659 | .0623 | .0595 | .0573 | |
| .480 | -1.47 | .983 | .175 | 6.43 | .0598 | .0565 | .0539 | .0518 | .0629 | .0593 | .0569 | .0548 | |
| .520 | -2.03 | .989 | .057 | 4.22 | .0816 | .0794 | .0777 | .0763 | .0839 | .0813 | .0796 | .0782 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 1.37 | .797 | .217 | 5.78 | .0696 | .0666 | .0642 | .0624 | .0722 | .0692 | .0668 | .0650 | |
| .440 | -.54 | .879 | .139 | 6.03 | .0653 | .0622 | .0598 | .0579 | .0680 | .0649 | .0625 | .0606 | |
| .480 | -1.00 | .945 | .129 | 6.37 | .0504 | .0477 | .0457 | .0446 | .0533 | .0501 | .0479 | .0465 | |
| .520 | -2.07 | .987 | .076 | 4.22 | .0899 | .0872 | .0852 | .0835 | .0872 | .0846 | .0824 | .0808 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (TRG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 1.15 | .744 | .188 | 4.88 | .0661 | .0636 | .0616 | .0601 | .0683 | .0654 | .0630 | .0613 | |
| .440 | -.37 | .840 | .173 | 5.88 | .0535 | .0509 | .0481 | .0463 | .0561 | .0531 | .0508 | .0490 | |
| .480 | -1.07 | .927 | .092 | 6.18 | .0415 | .0387 | .0369 | .0354 | .0444 | .0411 | .0387 | .0371 | |
| .520 | -2.03 | .986 | .008 | 3.97 | .0820 | .0800 | .0785 | .0772 | .0830 | .0811 | .0791 | .0775 | |

RESISTANCE DATA SERIAL: 65-A MODEL 519A

LP/HPX = 4.66 DEARISE ANGLE = 29.5 DEG FNR = 1.75

WIGHT = LIFT (LB, SEAMATER) = 1800 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.7 69.6 150.0 15.0 32.7 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.42 | .036 | .664 | 6.01 | .1238 | .1198 | .1163 | .1138 | .1274 | .1237 | .1200 | .1174 | |
| .440 | 2.47 | .075 | .705 | 5.49 | .1115 | .1070 | .1035 | .1000 | .1155 | .1111 | .1076 | .1048 | |
| .480 | .64 | .096 | .580 | 5.06 | .1027 | .0986 | .0944 | .0904 | .1043 | .1023 | .0991 | .0959 | |
| .520 | -1.72 | 1.099 | .605 | 5.35 | .1152 | .1116 | .1084 | .1065 | .1184 | .1149 | .1120 | .1098 | |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.02 | .022 | .658 | 7.05 | .1040 | .1033 | .0996 | .0966 | .1124 | .1076 | .1039 | .1009 | |
| .440 | 1.47 | .071 | .656 | 7.14 | .0977 | .0930 | .0892 | .0862 | .1021 | .0973 | .0936 | .0906 | |
| .480 | .12 | .098 | .537 | 6.55 | .0946 | .0910 | .0875 | .0847 | .0994 | .0950 | .0915 | .0887 | |
| .520 | -1.29 | 1.000 | .569 | 6.45 | .1049 | .1006 | .0972 | .0945 | .1089 | .1045 | .1011 | .0984 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.97 | .776 | .578 | 6.92 | .1138 | .1090 | .1053 | .1024 | .1180 | .1133 | .1096 | .1066 | |
| .440 | 2.01 | .913 | .626 | 7.78 | .0931 | .0880 | .0839 | .0807 | .0979 | .0927 | .0887 | .0854 | |
| .480 | .01 | .977 | .521 | 7.02 | .0900 | .0860 | .0808 | .0775 | .0948 | .0906 | .0855 | .0823 | |
| .520 | -1.32 | .997 | .497 | 7.23 | .0979 | .0939 | .0892 | .0862 | .0923 | .0875 | .0837 | .0806 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.48 | .818 | .582 | 7.04 | .0941 | .0888 | .0846 | .0813 | .0990 | .0936 | .0895 | .0862 | |
| .440 | 1.31 | .925 | .570 | 8.45 | .0876 | .0829 | .0776 | .0742 | .0929 | .0872 | .0821 | .0793 | |
| .480 | .29 | .975 | .497 | 8.16 | .0825 | .0771 | .0729 | .0695 | .0875 | .0821 | .0778 | .0745 | |
| .520 | -1.53 | .992 | .409 | 7.40 | .0816 | .0766 | .0726 | .0695 | .0862 | .0811 | .0772 | .0741 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.54 | .714 | .522 | 7.89 | .0953 | .0901 | .0860 | .0827 | .1000 | .0948 | .0907 | .0874 | |
| .440 | 1.84 | .844 | .538 | 8.67 | .0885 | .0828 | .0793 | .0767 | .0978 | .0911 | .0856 | .0809 | |
| .480 | .89 | .927 | .475 | 8.62 | .0821 | .0765 | .0720 | .0684 | .0874 | .0817 | .0773 | .0737 | |
| .520 | -1.10 | .971 | .378 | 8.05 | .0771 | .0718 | .0676 | .0642 | .0820 | .0767 | .0725 | .0691 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.47 | .754 | .514 | 8.76 | .0895 | .0837 | .0791 | .0755 | .0949 | .0891 | .0845 | .0808 | |
| .440 | 1.11 | .855 | .440 | 8.64 | .0834 | .0776 | .0732 | .0696 | .0886 | .0829 | .0784 | .0749 | |
| .480 | .79 | .926 | .351 | 8.25 | .0773 | .0718 | .0675 | .0641 | .0824 | .0769 | .0726 | .0692 | |
| .520 | -1.38 | .971 | .271 | 7.66 | .0745 | .0694 | .0654 | .0622 | .0792 | .0741 | .0701 | .0669 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.93 | .766 | .430 | 8.70 | .0834 | .0776 | .0731 | .0694 | .0887 | .0829 | .0784 | .0748 | |
| .440 | .77 | .851 | .316 | 7.89 | .0795 | .0743 | .0701 | .0658 | .0844 | .0791 | .0749 | .0716 | |
| .480 | .08 | .929 | .247 | 7.68 | .0755 | .0705 | .0665 | .0633 | .0803 | .0752 | .0712 | .0680 | |
| .520 | -1.53 | .971 | .231 | 7.31 | .0747 | .0698 | .0660 | .0629 | .0792 | .0743 | .0705 | .0674 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.46 | .776 | .298 | 7.59 | .0781 | .0730 | .0690 | .0659 | .0828 | .0777 | .0737 | .0705 | |
| .440 | .60 | .860 | .212 | 7.01 | .0778 | .0731 | .0694 | .0664 | .0821 | .0774 | .0737 | .0707 | |
| .480 | -1.14 | .953 | .183 | 7.10 | .0772 | .0724 | .0687 | .0657 | .0816 | .0768 | .0731 | .0701 | |
| .520 | -1.74 | .976 | .144 | 6.77 | .0771 | .0726 | .0690 | .0662 | .0812 | .0767 | .0732 | .0703 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.9 116.0 249.0 25.0 53.9 116.0 249.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DFG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.17 | .771 | .191 | 6.15 | .0757 | .0715 | .0682 | .0656 | .0814 | .0773 | .0730 | .0694 | |
| .440 | .38 | .863 | .151 | 6.28 | .0799 | .0747 | .0714 | .0687 | .0829 | .0785 | .0752 | .0726 | |
| .480 | -.29 | .920 | .117 | 6.08 | .0807 | .0762 | .0726 | .0697 | .0800 | .0764 | .0728 | .0700 | |
| .520 | -1.86 | .976 | .112 | 6.40 | .0807 | .0765 | .0732 | .0705 | .0847 | .0804 | .0771 | .0744 | |

RESISTANCE DATA SERIES 65-4 MOFL 5195

LP/APX = 4.66 DRAPISE ANGLE = 29.5 DEG FNY = 2.00

HEIGHT = LIFT (LP, SEANATER) = 1000 10000 100000 1000000 10⁷ 10000 100000 10⁶0000

| LP/W(L/3) = 6.0 | | | LP (FT) = 15.0 32.3 69.6 150.0 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|-------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .400 | 3.19 | .923 | .684 | 6.75 | .1329 | .1275 | .1232 | .1198 | .1379 | .1725 | .1282 | .1248 | | |
| .440 | .74 | 1.000 | .552 | 5.82 | .1174 | .1123 | .1083 | .1052 | .1220 | .1170 | .1130 | .1098 | | |
| .520 | -1.49 | 1.000 | .639 | 4.00 | .1403 | .1362 | .1330 | .1304 | .1442 | .1401 | .1368 | .1342 | | |

| LP/W(L/3) = 6.5 | | | LP (FT) = 16.2 35.0 75.4 162.5 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|-------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .400 | 3.97 | .817 | .607 | 6.54 | .1300 | .1243 | .1196 | .1162 | .1387 | .1295 | .1250 | .1214 | | |
| .440 | 1.84 | .951 | .661 | 7.12 | .1135 | .1075 | .1027 | .0988 | .1192 | .1131 | .1084 | .1046 | | |
| .520 | -.21 | .997 | .537 | 6.56 | .1095 | .1034 | .0994 | .0959 | .1147 | .1091 | .1047 | .1011 | | |
| .520 | -1.43 | 1.000 | .719 | 6.53 | .1278 | .1224 | .1181 | .1146 | .1370 | .1276 | .1233 | .1198 | | |

| LP/W(L/3) = 7.0 | | | LP (FT) = 17.5 37.7 81.2 175.0 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|-------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .400 | 2.47 | .869 | .609 | 7.49 | .1094 | .1030 | .0980 | .0940 | .1154 | .1090 | .1040 | .1000 | | |
| .440 | -.97 | .966 | .631 | 7.90 | .1023 | .0956 | .0903 | .0861 | .1076 | .1020 | .0967 | .0925 | | |
| .520 | -1.37 | 1.000 | .487 | 6.66 | .1215 | .1158 | .1114 | .1078 | .1268 | .1212 | .1167 | .1131 | | |

| LP/W(L/3) = 7.5 | | | LP (FT) = 18.7 40.6 87.0 187.5 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|-------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .360 | 3.23 | .769 | .529 | 7.14 | .1073 | .1011 | .0952 | .0923 | .1130 | .1064 | .1020 | .0981 | | |
| .400 | 1.52 | .901 | .672 | 8.57 | .0983 | .0912 | .0856 | .0816 | .1027 | .0960 | .0924 | .0887 | | |
| .440 | -.43 | .964 | .563 | 8.61 | .0999 | .0908 | .0851 | .0804 | .1020 | .0957 | .0920 | .0885 | | |
| .520 | -1.36 | 1.000 | .307 | 6.51 | .1140 | .1044 | .0940 | .0895 | .1142 | .1036 | .0932 | .0887 | | |

| LP/W(L/3) = 8.0 | | | LP (FT) = 20.0 43.1 92.8 200.0 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .320 | 4.26 | .662 | .400 | 7.30 | .1117 | .1054 | .1004 | .0964 | .1175 | .1112 | .1062 | .1022 | | |
| .360 | 2.84 | .819 | .549 | 8.55 | .0951 | .0889 | .0832 | .0787 | .1029 | .0957 | .0901 | .0859 | | |
| .400 | -.97 | .909 | .565 | 9.33 | .0953 | .0876 | .0815 | .0766 | .1027 | .0950 | .0899 | .0841 | | |
| .440 | -.84 | .962 | .477 | 8.00 | .0928 | .0854 | .0797 | .0751 | .0998 | .0925 | .0867 | .0821 | | |
| .520 | -1.45 | .998 | .351 | 7.78 | .0971 | .0906 | .0854 | .0813 | .1014 | .0948 | .0891 | .0845 | | |
| .520 | -1.45 | .998 | .287 | 6.50 | .1192 | .1046 | .0903 | .0868 | .1154 | .1094 | .1035 | .0989 | | |

| LP/W(L/3) = 8.5 | | | LP (FT) = 21.2 45.4 94.6 212.5 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|------|---|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .320 | 2.81 | .720 | .490 | 8.10 | .0956 | .0886 | .0831 | .0788 | .1021 | .0952 | .0897 | .0853 | | |
| .360 | 1.37 | .840 | .523 | 9.43 | .0941 | .0863 | .0801 | .0752 | .1016 | .0938 | .0876 | .0827 | | |
| .400 | -.57 | .906 | .476 | 9.44 | .0927 | .0849 | .0787 | .0738 | .1012 | .0924 | .0863 | .0814 | | |
| .440 | -.24 | .961 | .378 | 8.64 | .0916 | .0844 | .0787 | .0741 | .0995 | .0913 | .0856 | .0811 | | |
| .520 | -1.54 | .992 | .278 | 7.48 | .0975 | .0912 | .0863 | .0824 | .1014 | .0939 | .0882 | .0838 | | |
| .520 | -1.54 | .992 | .192 | 6.17 | .1045 | .1032 | .0991 | .0958 | .1134 | .1042 | .0940 | .0907 | | |

| LP/W(L/3) = 9.0 | | | LP (FT) = 22.5 48.5 104.4 225.0 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|------|--|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .320 | 1.94 | .758 | .485 | 9.28 | .0921 | .0846 | .0788 | .0736 | .0997 | .0920 | .0859 | .0810 | | |
| .360 | 1.05 | .833 | .456 | 9.55 | .0915 | .0856 | .0794 | .0744 | .1012 | .0932 | .0870 | .0820 | | |
| .400 | -.28 | .906 | .371 | 9.16 | .0921 | .0845 | .0785 | .0737 | .0995 | .0914 | .0850 | .0810 | | |
| .440 | -.45 | .964 | .273 | 8.28 | .0927 | .0848 | .0788 | .0749 | .0993 | .0920 | .0864 | .0826 | | |
| .520 | -1.24 | .993 | .194 | 6.92 | .0988 | .0930 | .0884 | .0847 | .1043 | .0968 | .0919 | .0872 | | |
| .520 | -1.61 | .989 | .135 | 5.50 | .1075 | .1020 | .0991 | .0962 | .1119 | .1072 | .1035 | .1006 | | |

| LP/W(L/3) = 9.5 | | | LP (FT) = 23.7 51.2 110.2 237.4 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------------|-------|------|--|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .320 | 1.46 | .767 | .414 | 9.34 | .0909 | .0831 | .0770 | .0721 | .0984 | .0906 | .0844 | .0795 | | |
| .360 | -.81 | .828 | .356 | 9.09 | .0935 | .0859 | .0799 | .0751 | .1007 | .0932 | .0871 | .0824 | | |
| .400 | -.05 | .911 | .271 | 8.41 | .0941 | .0869 | .0813 | .0767 | .1010 | .0934 | .0887 | .0843 | | |
| .440 | -.61 | .966 | .193 | 7.71 | .0953 | .0898 | .0847 | .0806 | .1024 | .0950 | .0909 | .0866 | | |
| .520 | -1.15 | .982 | .124 | 6.22 | .1009 | .0956 | .0915 | .0882 | .1089 | .1006 | .0954 | .0911 | | |
| .520 | -1.68 | .987 | .074 | 4.68 | .1071 | .1031 | .0994 | .0974 | .1144 | .1064 | .1037 | .1012 | | |

| LP/W(L/3) = 10.0 | | | LP (FT) = 25.0 53.4 116.0 249.9 | | | | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------------------|-------|------|--|--------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| LCG | TRIM | LK | LC | S | | | | | | | | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | | |
| .320 | 1.19 | .763 | .312 | 8.60 | .0905 | .0833 | .0776 | .0730 | .0974 | .0902 | .0844 | .0799 | | |
| .360 | -.65 | .844 | .263 | 8.30 | .0954 | .0844 | .0829 | .0746 | .1021 | .0951 | .0906 | .0862 | | |
| .400 | -.14 | .917 | .193 | 8.11 | .0980 | .0922 | .0864 | .0827 | .1054 | .0986 | .0933 | .0891 | | |
| .440 | -.71 | .966 | .135 | 7.06 | .1015 | .0956 | .0909 | .0872 | .1072 | .1013 | .0966 | .0924 | | |
| .520 | -1.24 | .982 | .074 | 5.47 | .1039 | .0993 | .0957 | .0927 | .1093 | .1037 | .0989 | .0947 | | |
| .520 | -1.74 | .988 | .014 | 3.84 | .1074 | .1041 | .1015 | .9994 | .1104 | .1072 | .1046 | .1025 | | |

RESISTANCE DATA SERIES 65-A MODEL 5198

LP/MPX = 1.66 DEADRISE ANGLE = 20.5 DEG FNV = 2.50

WEIGHT - LIFT (LG, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 35.0 75.4 162.5 16.2 35.0 75.4 162.3

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 4.41 | .775 | .570 | 5.50 | .1578 | .1506 | .1449 | .1404 | .1647 | .1575 | .1518 | .1472 |
| .400 | 2.47 | .915 | .640 | 6.91 | .1528 | .1440 | .1371 | .1315 | .1614 | .1526 | .1457 | .1401 |
| .520 | -.53 | 1.000 | .507 | 6.47 | .1735 | .1653 | .1587 | .1535 | .1816 | .1734 | .1668 | .1616 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 174.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 4.22 | .751 | .532 | 5.75 | .1454 | .1379 | .1320 | .1272 | .1526 | .1451 | .1391 | .1344 |
| .400 | 2.47 | .851 | .591 | 7.27 | .1422 | .1329 | .1256 | .1198 | .1513 | .1420 | .1347 | .1288 |
| .400 | .56 | .995 | .566 | 7.65 | .1414 | .1318 | .1242 | .1181 | .1510 | .1414 | .1338 | .1277 |
| .520 | -1.07 | 1.000 | .607 | 7.56 | .1657 | .1563 | .1489 | .1429 | .1751 | .1657 | .1583 | .1523 |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 167.5 16.7 40.4 87.0 167.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .400 | 2.65 | .746 | .541 | 7.22 | .1374 | .1282 | .1209 | .1151 | .1464 | .1372 | .1299 | .1241 |
| .440 | .97 | .933 | .590 | 1.72 | .1290 | .1182 | .1097 | .1026 | .1399 | .1291 | .1205 | .1137 |
| .480 | -1.16 | .982 | .499 | 4.25 | .1377 | .1274 | .1193 | .1127 | .1460 | .1377 | .1296 | .1231 |
| .520 | -.59 | .992 | .437 | 1.09 | .1451 | .1350 | .1270 | .1206 | .1552 | .1451 | .1371 | .1307 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 3.11 | .708 | .495 | 6.85 | .1337 | .1249 | .1179 | .1124 | .1423 | .1335 | .1265 | .1209 |
| .400 | 1.50 | .845 | .551 | 8.88 | .1246 | .1136 | .1048 | .0978 | .1357 | .1247 | .1159 | .1089 |
| .440 | .41 | .938 | .545 | 9.63 | .1251 | .1132 | .1039 | .0963 | .1371 | .1253 | .1159 | .1084 |
| .480 | -0.57 | .984 | .444 | 9.09 | .1396 | .1284 | .1196 | .1124 | .1510 | .1398 | .1309 | .1238 |
| .520 | -1.73 | .990 | .452 | 0.72 | .1453 | .1345 | .1260 | .1192 | .1562 | .1454 | .1369 | .1301 |

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.34 | .614 | .436 | 6.78 | .1507 | .1385 | .1288 | .1210 | .1629 | .1507 | .1410 | .1332 |
| .400 | 2.85 | .796 | .513 | 8.50 | .1621 | .1495 | .1396 | .1317 | .1744 | .1623 | .1524 | .1444 |
| .440 | .86 | .943 | .530 | 9.66 | .1664 | .1517 | .1401 | .1307 | .1817 | .1670 | .1554 | .1460 |
| .480 | .04 | .960 | .501 | 10.23 | .1731 | .1566 | .1436 | .1331 | .1905 | .1740 | .1610 | .1505 |
| .520 | -1.15 | .989 | .470 | 10.34 | .1842 | .1669 | .1532 | .1421 | .2026 | .1857 | .1716 | .1605 |
| | | | | | .1861 | .1687 | .1548 | .1436 | .2047 | .1873 | .1734 | .1622 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.25 | .636 | .426 | 7.02 | .1557 | .1432 | .1333 | .1253 | .1681 | .1558 | .1459 | .1379 |
| .360 | 1.98 | .733 | .471 | 8.42 | .1592 | .1445 | .1329 | .1236 | .1743 | .1597 | .1481 | .1380 |
| .400 | .97 | .826 | .499 | 9.89 | .1652 | .1484 | .1350 | .1243 | .1830 | .1662 | .1528 | .1421 |
| .440 | .20 | .914 | .492 | 18.67 | .1783 | .1600 | .1455 | .1338 | .1979 | .1796 | .1650 | .1533 |
| .480 | -.53 | .984 | .482 | 11.38 | .1990 | .1800 | .1650 | .1528 | .2195 | .2005 | .1854 | .1733 |
| .520 | -1.12 | 1.000 | .477 | 10.94 | .2250 | .2068 | .1923 | .1806 | .2447 | .2264 | .2120 | .2003 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 231.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|--------|--------------------------------|-------|-------|-------|
| .320 | 2.47 | .662 | .427 | 8.12 | .1522 | .1379 | .1267 | .1176 | .1664 | .1525 | .1413 | .1322 |
| .360 | 1.31 | .756 | .459 | 9.63 | .1578 | .1413 | .1282 | .1176 | .1751 | .1586 | .1455 | .1350 |
| .400 | .43 | .857 | .481 | 11.24 | .1730 | .1541 | .1391 | .1270 | .1932 | .1743 | .1593 | .1472 |
| .440 | -.31 | .944 | .477 | 12.19 | .1940 | .1745 | .1584 | 0.1455 | .2167 | .1965 | .1804 | .1674 |
| .480 | -.93 | .981 | .404 | 11.07 | .2173 | .1988 | .1841 | .1723 | .2372 | .2187 | .2041 | .1922 |
| .520 | -1.59 | .988 | .295 | 5.66 | .2463 | .2315 | .2199 | .2105 | .2619 | .2472 | .2355 | .2261 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 1.83 | .684 | .420 | 9.22 | .1515 | .1355 | .1229 | .1127 | .1681 | .1521 | .1395 | .1293 |
| .360 | .82 | .781 | .449 | 10.76 | .1632 | .1480 | .1356 | .1239 | .1876 | .1694 | .1549 | .1433 |
| .400 | -.02 | .892 | .481 | 12.89 | .1911 | 0.181 | .1529 | .1392 | .2143 | .1930 | .1760 | .1624 |
| .440 | -.62 | .961 | .433 | 12.76 | .2133 | .1922 | .1755 | .1620 | .2363 | .2152 | .1984 | .1850 |
| .480 | -1.20 | .976 | .255 | 9.11 | .2334 | .2179 | .2037 | .1959 | .2497 | .2343 | .2221 | .2122 |
| .520 | -1.00 | .977 | .063 | 4.89 | .2609 | .2523 | .2455 | .2401 | .2697 | .2611 | .2543 | .2489 |

RESISTANCE DATA SERIES 65-A MODEL 5199

LP/MPX = 4.66 DEADRISE ANGLE = 23.5 DEG FNV = 3.00

WEIGHT = LIFT (L.B. SPANATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 39.0 79.4 162.5 16.2 39.0 79.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 4.00 | .731 | .929 | 4.81 | .1630 | .1541 | .1472 | .1415 | .1717 | .1620 | .1550 | .1502 | |
| .400 | 2.98 | .824 | .988 | 5.62 | .1678 | .1577 | .1497 | .1433 | .1779 | .1678 | .1598 | .1534 | |
| .520 | 1.44 | .946 | .621 | 6.99 | .1814 | .1700 | .1608 | .1534 | .1935 | .1819 | .1727 | .1653 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 179.0 17.5 37.7 81.2 179.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.21 | .767 | .570 | 5.77 | .1711 | .1607 | .1524 | .1458 | .1814 | .1710 | .1620 | .1562 | |
| .400 | 2.29 | .857 | .592 | 6.73 | .1738 | .1611 | .1518 | .1442 | .1851 | .1732 | .1629 | .1563 | |
| .520 | 1.18 | .955 | .626 | 7.74 | .1772 | .1638 | .1532 | .1447 | .1911 | .1777 | .1671 | .1586 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.67 | .709 | .497 | 5.87 | .1651 | .1545 | .1461 | .1393 | .1756 | .1650 | .1566 | .1499 | |
| .400 | 2.47 | .808 | .544 | 6.98 | .1710 | .1587 | .1490 | .1412 | .1836 | .1713 | .1615 | .1537 | |
| .400 | 1.50 | .909 | .593 | 8.10 | .1756 | .1615 | .1495 | .1417 | .1941 | .1762 | .1651 | .1562 | |
| .520 | 2.07 | .854 | .616 | 7.75 | .1723 | .1588 | .1482 | .1397 | .1862 | .1728 | .1621 | .1536 | |

LP/V(1/3) = 8.0 LP (FT) = 20.9 43.1 92.8 200.0 20.9 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.97 | .654 | .468 | 6.23 | .1594 | .1485 | .1397 | .1325 | .1718 | .1597 | .1499 | .1437 | |
| .400 | 2.65 | .753 | .505 | 7.07 | .1671 | .1546 | .1447 | .1368 | .1798 | .1671 | .1574 | .1495 | |
| .440 | 1.62 | .854 | .554 | 8.37 | .1725 | .1581 | .1466 | .1375 | .1876 | .1731 | .1617 | .1529 | |
| .400 | .80 | .915 | .559 | 9.22 | .1800 | .1643 | .1518 | .1418 | .1966 | .1809 | .1684 | .1584 | |
| .520 | .04 | .998 | .509 | 9.46 | .1915 | .1754 | .1626 | .1524 | .2085 | .1924 | .1797 | .1694 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.75 | .636 | .438 | 6.66 | .1234 | .1140 | .1079 | .1025 | .1317 | .1231 | .1163 | .1108 | |
| .360 | 2.09 | .761 | .500 | 8.57 | .1239 | .1132 | .1047 | .0979 | .1346 | .1239 | .1154 | .1086 | |
| .400 | .86 | .875 | .534 | 10.20 | .1187 | .1061 | .0961 | .0881 | .1316 | .1189 | .1090 | .1009 | |
| .440 | -1.07 | .949 | .524 | 11.56 | .1205 | .1160 | .1098 | .0976 | .1420 | .1292 | .1190 | .1108 | |
| .400 | -1.60 | .980 | .460 | 9.46 | .1307 | .1276 | .1181 | .1104 | .1570 | .1459 | .1374 | .1277 | |
| .520 | -1.95 | .992 | .340 | 8.45 | .1505 | .1400 | .1317 | .1250 | .1611 | .1486 | .1422 | .1356 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.74 | .579 | .452 | 7.98 | .1226 | .1124 | .1044 | .0980 | .1325 | .1224 | .1144 | .1080 | |
| .360 | 1.35 | .794 | .497 | 9.98 | .1194 | .1071 | .0973 | .0895 | .1319 | .1196 | .1098 | .1020 | |
| .400 | .34 | .893 | .523 | 11.33 | .1235 | .1098 | .0989 | .0902 | .1377 | .1240 | .1131 | .1044 | |
| .440 | -1.41 | .961 | .490 | 11.29 | .1342 | .1206 | .1098 | .1012 | .1443 | .1347 | .1219 | .1153 | |
| .400 | -1.73 | .980 | .396 | 10.10 | .1425 | .1302 | .1205 | .1126 | .1552 | .1428 | .1331 | .1253 | |
| .520 | -1.10 | .996 | .242 | 8.01 | .1545 | .1445 | .1366 | .1303 | .1645 | .1545 | .1466 | .1403 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.98 | .710 | .454 | 9.37 | .1222 | .1105 | .1013 | .0939 | .1339 | .1222 | .1130 | .1056 | |
| .360 | .84 | .809 | .475 | 10.76 | .1269 | .1137 | .1033 | .0950 | .1403 | .1272 | .1164 | .1084 | |
| .400 | -1.01 | .909 | .499 | 12.21 | .1311 | .1164 | .1040 | .0954 | .1463 | .1317 | .1200 | .1107 | |
| .440 | -1.60 | .968 | .441 | 11.78 | .1397 | .1256 | .1144 | .1054 | .1545 | .1403 | .1281 | .1201 | |
| .400 | -1.86 | .984 | .347 | 10.30 | .1479 | .1354 | .1255 | .1175 | .1608 | .1481 | .1374 | .1304 | |
| .520 | -1.20 | 1.000 | .213 | 8.10 | .1601 | .1501 | .1422 | .1358 | .1702 | .1602 | .1523 | .1459 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.42 | .725 | .448 | 10.11 | .1289 | .1166 | .1069 | .0986 | .1415 | .1293 | .1192 | .1112 | |
| .360 | .55 | .818 | .456 | 11.44 | .1334 | .1198 | .1086 | .0998 | .1477 | .1339 | .1224 | .1141 | |
| .400 | -1.20 | .919 | .438 | 12.55 | .1349 | .1198 | .1079 | .0983 | .1504 | .1354 | .1235 | .1148 | |
| .440 | -1.71 | .971 | .367 | 11.61 | .1429 | .1298 | .1179 | .1091 | .1574 | .1435 | .1324 | .1236 | |
| .400 | -1.81 | .949 | .289 | 9.44 | .1524 | .1407 | .1312 | .1235 | .1652 | .1531 | .1436 | .1359 | |
| .520 | -1.16 | 1.000 | .192 | 7.75 | .1659 | .1563 | .1488 | .1428 | .1755 | .1660 | .1585 | .1524 | |

RESISTANCE DATA SERIES 65-A MODEL 5198

LP/HPX = 4.66

DEADRISE ANGLE = 20.5 DEG

FNO = 3.51

WFTGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 1.79 | .597 | .375 | 5.72 | .1327 | .1187 | .1076 | .0987 | .1467 | .1327 | .1216 | .1127 |
| .360 | 1.71 | .565 | .389 | 5.42 | .1313 | .1180 | .1074 | .0989 | .1446 | .1312 | .1207 | .1122 |
| .400 | -3.17 | .617 | 1.000 | 6.61 | .4126 | .3983 | .3870 | .3778 | .4288 | .4145 | .4032 | .3940 |

LP/V(1/3) = 1.5 LP (FT) = 21.2 45.4 94.6 212.5 21.2 45.4 94.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.56 | .606 | .396 | 6.12 | .1595 | .1358 | .1241 | .1147 | .1655 | .1507 | .1391 | .1297 |
| .360 | 1.62 | .683 | .427 | 7.09 | .1668 | .1501 | .1369 | .1287 | .1842 | .1675 | .1542 | .1436 |
| .400 | .87 | .749 | .441 | 7.90 | .1812 | .1629 | .1483 | .1368 | .2006 | .1822 | .1677 | .1559 |
| .440 | .21 | .815 | .429 | 8.65 | .1892 | .1693 | .1535 | .1408 | .2104 | .1904 | .1746 | .1619 |
| .480 | -.91 | .895 | .479 | 9.62 | .2277 | .2055 | .1883 | .1744 | .2508 | .2201 | .2118 | .1979 |
| .520 | -2.94 | .793 | 1.000 | 0.21 | .4819 | .4626 | .4472 | .4348 | .5045 | .4852 | .4698 | .4573 |

LP/V(1/3) = 0.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.93 | .627 | .414 | 6.92 | .1679 | .1516 | .1386 | .1282 | .1848 | .1685 | .1556 | .1452 |
| .360 | 1.49 | .701 | .443 | 7.00 | .1832 | .1649 | .1504 | .1388 | .2026 | .1843 | .1698 | .1581 |
| .400 | 1.25 | .755 | .461 | 8.76 | .2000 | .1800 | .1641 | .1513 | .2214 | .2014 | .1869 | .1728 |
| .440 | .56 | .841 | .463 | 9.74 | .2129 | .1919 | .1735 | .1595 | .2368 | .2149 | .1974 | .1833 |
| .480 | -.17 | .926 | .472 | 10.86 | .2299 | .2059 | .1866 | .1711 | .2565 | .2324 | .2132 | .1977 |
| .520 | -.98 | .993 | .539 | 11.93 | .2687 | .2427 | .2220 | .2053 | .2979 | .2719 | .2512 | .2345 |

LP/V(1/3) = 0.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.47 | .653 | .420 | 7.06 | .1792 | .1607 | .1460 | .1342 | .1987 | .1802 | .1655 | .1537 |
| .360 | 1.67 | .711 | .437 | 8.80 | .1908 | .1707 | .1547 | .1418 | .2124 | .1922 | .1763 | .1634 |
| .400 | .97 | .770 | .449 | 9.03 | .2056 | .1838 | .1665 | .1525 | .2292 | .2074 | .1901 | .1761 |
| .440 | .16 | .878 | .452 | 11.09 | .2299 | .2053 | .1857 | .1699 | .2570 | .2324 | .2128 | .1970 |
| .480 | -.53 | .963 | .470 | 12.28 | .2595 | .2327 | .2113 | .1941 | .2896 | .2628 | .2414 | .2242 |
| .520 | -.33 | .947 | .456 | 12.01 | .2503 | .2226 | .2027 | .1857 | .2704 | .2511 | .2321 | .2151 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.08 | .657 | .411 | 8.60 | .1899 | .1607 | .1446 | .1317 | .2074 | .1822 | .1662 | .1537 |
| .360 | 1.26 | .714 | .421 | 9.63 | .1998 | .1690 | .1516 | .1378 | .2144 | .1926 | .1752 | .1612 |
| .400 | .43 | .815 | .431 | 11.00 | .2212 | .1965 | .1769 | .1610 | .2484 | .2237 | .2040 | .1882 |
| .440 | -.40 | .880 | .440 | 12.71 | .2659 | .2392 | .2171 | .1997 | .2980 | .2703 | .2482 | .2304 |
| .480 | -.91 | .953 | .475 | 13.12 | .2886 | .2602 | .2376 | .2104 | .3207 | .2927 | .2607 | .2515 |
| .520 | -1.43 | .977 | .507 | 13.19 | .3114 | .2831 | .2605 | .2422 | .3437 | .3152 | .2928 | .2745 |

RESISTANCE DATA SERIES 65-A MODEL 5190

LP/PPX = 4.66 DEADRISE ANGLE = 29.5 DEG FNV = 4.80

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 46.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|--------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| 0.00 | -0.20 | .593 | .284 | 6.62 | .1767 | .1561 | .1397 | .1266 | .1979 | .1772 | .1609 | .1478 | |
| .360 | -1.15 | .574 | .361 | 7.62 | .2125 | .1894 | .1711 | .1564 | .2369 | .2138 | .1955 | .1807 | |
| .400 | -2.11 | .627 | .584 | 8.61 | .2609 | .2357 | .2158 | .1997 | .2883 | .2633 | .2434 | .2273 | |
| .440 | -3.15 | .514 | 1.00 | 9.59 | .3264 | .3002 | .2794 | .2625 | .3567 | 0.3306 | .3097 | .2928 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|--------|--------------------------------|--------|--------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.59 | .598 | .368 | 7.47 | .1952 | .1729 | .1552 | .1409 | .2190 | .1967 | .1789 | .1647 | |
| .360 | .97 | .660 | .381 | 8.15 | .2174 | .1933 | .1741 | .1586 | .2435 | .2193 | .2001 | .1847 | |
| .400 | .31 | .740 | .374 | 9.17 | .2483 | .2216 | .2004 | .1833 | .2775 | .2508 | 0.2300 | .2125 | |
| .440 | -0.39 | .819 | .398 | 10.30 | .2857 | .2558 | .2322 | .2132 | .3183 | .2887 | .2652 | .2462 | |
| .480 | -1.07 | .871 | .483 | 11.56 | .3235 | .2910 | .2652 | .2442 | .3605 | 0.3300 | .3021 | .2812 | |
| .520 | -1.70 | .884 | .646 | 17.04 | .3597 | .3245 | .2964 | 0.2700 | .4008 | .3655 | .3374 | .3147 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.6 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|--------|--------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.30 | .644 | .407 | 8.59 | .2254 | .2002 | .1802 | .1641 | .2528 | .2277 | .2077 | 0.1900 | |
| .360 | 1.70 | .694 | .423 | 9.33 | .2430 | .2160 | .1945 | .1772 | .2728 | .2458 | .2244 | .2070 | |
| .400 | 1.17 | .741 | .432 | 10.02 | .2632 | .2345 | .2117 | .1932 | .2952 | .2666 | .2437 | .2253 | |
| .440 | .55 | .820 | .427 | 10.99 | .3008 | .2698 | .2450 | .2250 | .3360 | .3049 | 0.2802 | .2602 | |
| .480 | -0.10 | .916 | .434 | 12.30 | .3514 | .3172 | .2899 | .2678 | .4008 | .3565 | .3292 | .3072 | |
| .520 | -0.73 | 0.982 | .493 | 13.116 | .3990 | .3611 | .3309 | .3065 | 0.4433 | .4055 | .3753 | .3508 | |

RESISTANCE DATA SERIES 65-A MONFL 4966-1

LP/BOX = 6.6° DEADRISE ANGLE = 20.5 DEG FNV = 1.00

HEIGHT = LIFT (LP, SEAWATER) = 100° 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 177.5 19.7 40.4 87.0 177.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.35 | .861 | .597 | 7.64 | .0426 | .0409 | .0395 | .0384 | .0440 | .0423 | .0409 | .0399 | |
| .360 | 1.82 | .966 | .660 | 7.62 | .0392 | .0374 | .0360 | .0349 | .0407 | .0389 | .0375 | .0364 | |
| .400 | .63 | .987 | .725 | 7.74 | .0323 | .0305 | .0291 | .0279 | .0339 | .0321 | .0306 | .0295 | |
| .440 | -1.48 | .993 | .688 | 7.73 | .0277 | .0260 | .0247 | .0236 | .0292 | .0275 | .0261 | .0250 | |
| .480 | -1.55 | .996 | .755 | 7.69 | .0264 | .0247 | .0234 | .0224 | .0278 | .0261 | .0248 | .0238 | |
| .520 | -2.59 | 1.000 | 1.000 | 7.63 | .0290 | .0273 | .0260 | .0249 | .0306 | .0288 | .0275 | .0264 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.59 | .871 | .558 | 7.68 | .0392 | .0374 | .0360 | .0349 | .0407 | .0389 | .0375 | .0364 | |
| .360 | 1.31 | .953 | .591 | 7.23 | .0330 | .0311 | .0295 | .0283 | .0347 | .0327 | .0312 | .0300 | |
| .400 | .28 | .988 | .612 | 7.46 | .0280 | .0260 | .0244 | .0232 | .0297 | .0277 | .0261 | .0249 | |
| .440 | -1.71 | .993 | .642 | 7.84 | .0255 | .0236 | .0222 | .0210 | .0271 | .0252 | .0238 | .0226 | |
| .480 | -1.64 | .993 | .731 | 7.57 | .0251 | .0233 | .0220 | .0209 | .0266 | .0248 | .0235 | .0224 | |
| .520 | -2.59 | 1.000 | .904 | 7.81 | .0264 | .0246 | .0232 | .0221 | .0279 | .0261 | .0248 | .0237 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .871 | .504 | 7.99 | .0366 | .0347 | .0332 | .0320 | .0382 | .0363 | .0347 | .0336 | |
| .360 | .92 | .955 | .503 | 7.44 | .0302 | .0282 | .0267 | .0254 | .0318 | .0299 | .0284 | .0271 | |
| .400 | -.02 | .989 | .512 | 7.42 | .0263 | .0243 | .0228 | .0216 | .0279 | .0260 | .0245 | .0232 | |
| .440 | -1.07 | .991 | .545 | 7.16 | .0247 | .0228 | .0213 | .0201 | .0263 | .0244 | .0229 | .0217 | |
| .480 | -1.60 | .990 | .607 | 7.911 | .0241 | .0222 | .0208 | .0196 | .0257 | .0238 | .0224 | .0212 | |
| .520 | -2.50 | 1.000 | .720 | 8.05 | .0241 | .0223 | .0208 | .0197 | .0257 | .0239 | .0224 | .0213 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 275.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.62 | .872 | .447 | 8.37 | .0331 | .0311 | .0295 | .0282 | .0347 | .0327 | .0312 | .0299 | |
| .360 | .80 | .967 | .452 | 8.86 | .0279 | .0258 | .0241 | .0228 | .0294 | .0275 | .0259 | .0246 | |
| .400 | -.25 | .990 | .451 | 8.98 | .0256 | .0234 | .0218 | .0205 | .0273 | .0252 | .0236 | .0223 | |
| .440 | -1.00 | .989 | .438 | 8.98 | .0241 | .0220 | .0204 | .0190 | .0259 | .0238 | .0222 | .0208 | |
| .480 | -1.67 | .987 | .412 | 8.98 | .0228 | .0206 | .0190 | .0177 | .0246 | .0224 | .0208 | .0195 | |
| .520 | -2.31 | .995 | .364 | 9.02 | .0207 | .0186 | .0169 | .0155 | .0225 | .0204 | .0187 | .0173 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.27 | .882 | .411 | 8.87 | .0307 | .0285 | .0269 | .0256 | .0324 | .0303 | .0287 | .0274 | |
| .360 | .35 | .970 | .416 | 9.51 | .0270 | .0248 | .0231 | .0217 | .0289 | .0267 | .0250 | .0236 | |
| .400 | -.41 | .987 | .390 | 9.81 | .0253 | .0230 | .0212 | .0198 | .0273 | .0250 | .0232 | .0217 | |
| .440 | -1.00 | .988 | .330 | 9.99 | .0238 | .0214 | .0196 | .0181 | .0258 | .0234 | .0216 | .0201 | |
| .480 | -1.66 | .987 | .240 | 10.16 | .0213 | .0189 | .0170 | .0155 | .0234 | .0209 | .0190 | .0175 | |
| .520 | -2.31 | .993 | .091 | 10.34 | .0176 | .0150 | .0130 | .0115 | .0197 | .0171 | .0151 | .0135 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.4 25.0 53.8 116.0 249.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.97 | .888 | .387 | 9.39 | .0298 | .0276 | .0259 | .0245 | .0317 | .0295 | .0277 | .0264 | |
| .360 | .14 | .958 | .377 | 9.90 | .0267 | .0244 | .0225 | .0211 | .0287 | .0263 | .0245 | .0231 | |
| .400 | -.51 | .988 | .340 | 10.18 | .0252 | .0228 | .0209 | .0195 | .0272 | .0248 | .0230 | .0215 | |
| .440 | -1.08 | .988 | .280 | 10.33 | .0235 | .0211 | .0192 | .0177 | .0256 | .0232 | .0213 | .0197 | |
| .480 | -1.62 | .990 | .192 | 10.64 | .0212 | .0186 | .0166 | .0150 | .0233 | .0208 | .0188 | .0172 | |
| .520 | -2.23 | .993 | .052 | 11.37 | .0171 | .0143 | .0121 | .0104 | .0194 | .0166 | .0145 | .0127 | |

RESISTANCE DATA SERIES A5-A MODEL 4965-1

LP/PM = 6.67 REARWISE ANGLE = 21.5 DEG FNO = 1.25

WEIGHT = LIFT (LP, SPANATED) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.61 | .774 | .625 | 6.79 | .0750 | .0725 | .0705 | .0690 | .0771 | .0746 | .0727 | .0711 | |
| .360 | 2.84 | .908 | .690 | 7.54 | .0678 | .0612 | .0591 | .0574 | .0662 | .0678 | .0614 | .0597 | |
| .400 | 1.40 | .980 | .787 | 7.99 | .0541 | .0553 | .0531 | .0514 | .0676 | .0578 | .0556 | .0539 | |
| .440 | .27 | .990 | .819 | 7.95 | .0498 | .0470 | .0449 | .0431 | .0527 | .0485 | .0477 | .0456 | |
| .480 | -1.00 | .995 | .707 | 7.21 | .0448 | .0423 | .0403 | .0387 | .0471 | .0445 | .0425 | .0410 | |
| .520 | -2.12 | 1.000 | .867 | 7.26 | .0470 | .0445 | .0425 | .0410 | .0493 | .0468 | .0448 | .0432 | |

LP/W(1/3) = 6.0 LP (FT) = 20.7 43.1 92.8 200.0 20.7 43.1 92.8 200.0

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 7.65 | .793 | .697 | 7.79 | .0658 | .0671 | .0611 | .0594 | .0641 | .0655 | .0634 | .0617 | |
| .360 | 2.17 | .914 | .662 | 8.08 | .0602 | .0574 | .0551 | .0533 | .0627 | .0599 | .0576 | .0559 | |
| .400 | .93 | .973 | .679 | 8.61 | .0502 | .0472 | .0448 | .0430 | .0529 | .0499 | .0475 | .0457 | |
| .440 | -.15 | .992 | .657 | 8.27 | .0474 | .0405 | .0382 | .0364 | .0463 | .0431 | .0408 | .0390 | |
| .480 | -1.14 | .994 | .624 | 7.45 | .0418 | .0391 | .0371 | .0355 | .0441 | .0415 | .0394 | .0378 | |
| .520 | -2.14 | .999 | .618 | 7.11 | .0444 | .0419 | .0400 | .0384 | .0466 | .0447 | .0422 | .0406 | |

LP/W(1/3) = 5.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.09 | .811 | .569 | 7.88 | .0612 | .0584 | .0562 | .0544 | .0577 | .0568 | .0546 | .0529 | |
| .360 | 1.63 | .909 | .551 | 8.39 | .0563 | .0531 | .0507 | .0489 | .0546 | .0527 | .0504 | .0487 | |
| .400 | .50 | .981 | .497 | 8.40 | .0466 | .0435 | .0413 | .0394 | .0492 | .0462 | .0439 | .0421 | |
| .440 | -.42 | .993 | .454 | 7.98 | .0411 | .0383 | .0368 | .0347 | .0445 | .0418 | .0395 | .0378 | |
| .480 | -1.31 | .991 | .467 | 7.61 | .0345 | .0328 | .0317 | .0302 | .0409 | .0387 | .0361 | .0344 | |
| .520 | -2.18 | .995 | .545 | 7.56 | .0395 | .0369 | .0348 | .0332 | .0419 | .0399 | .0372 | .0355 | |

LP/W(1/3) = 4.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.42 | .917 | .498 | 8.24 | .0555 | .0537 | .0514 | .0495 | .0522 | .0513 | .0491 | .0474 | |
| .360 | 1.18 | .921 | .469 | 8.51 | .0491 | .0451 | .0427 | .0408 | .0493 | .0478 | .0454 | .0435 | |
| .400 | .15 | .986 | .401 | 8.57 | .0419 | .0389 | .0365 | .0346 | .0444 | .0416 | .0392 | .0373 | |
| .440 | -.62 | .992 | .364 | 8.29 | .0385 | .0355 | .0333 | .0315 | .0412 | .0382 | .0359 | .0341 | |
| .480 | -1.36 | .988 | .351 | 8.17 | .0366 | .0337 | .0314 | .0296 | .0392 | .0362 | .0348 | .0327 | |
| .520 | -2.13 | .991 | .373 | 8.47 | .0355 | .0326 | .0303 | .0284 | .0387 | .0357 | .0339 | .0311 | |

LP/W(1/3) = 3.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .874 | .422 | 8.45 | .0497 | .0466 | .0443 | .0424 | .0452 | .0443 | .0421 | .0404 | |
| .360 | .79 | .919 | .398 | 8.11 | .0415 | .0383 | .0358 | .0338 | .0444 | .0412 | .0387 | .0366 | |
| .400 | -.07 | .988 | .362 | 8.10 | .0344 | .0312 | .0287 | .0267 | .0413 | .0381 | .0356 | .0336 | |
| .440 | -.76 | .989 | .315 | 8.95 | .0369 | .0338 | .0313 | .0293 | .0397 | .0366 | .0341 | .0321 | |
| .480 | -1.38 | .987 | .268 | 8.98 | .0355 | .0323 | .0298 | .0278 | .0383 | .0351 | .0326 | .0306 | |
| .520 | -2.16 | .989 | .286 | 9.40 | .0333 | .0299 | .0273 | .0251 | .0362 | .0329 | .0307 | .0281 | |

LP/W(1/3) = 2.0 LP (FT) = 25.1 53.8 116.0 249.9 25.1 53.8 116.0 249.9

| LCG | TDIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (INFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.50 | .811 | .378 | 8.97 | .0467 | .0433 | .0405 | .0386 | .0420 | .0408 | .0387 | .0368 | |
| .360 | .50 | .914 | .357 | 9.59 | .0395 | .0361 | .0335 | .0314 | .0425 | .0391 | .0366 | .0344 | |
| .400 | -.24 | .976 | .321 | 9.46 | .0371 | .0338 | .0312 | .0291 | .0400 | .0367 | .0341 | .0321 | |
| .440 | -.85 | .987 | .274 | 9.78 | .0354 | .0323 | .0298 | .0277 | .0385 | .0353 | .0327 | .0306 | |
| .480 | -1.41 | .990 | .217 | 9.52 | .0343 | .0310 | .0282 | .0261 | .0377 | .0349 | .0321 | .0291 | |
| .520 | -2.11 | .992 | .177 | 10.00 | .0327 | .0287 | .0258 | .0234 | .0355 | .0318 | .0290 | .0267 | |

RESISTANCE DATA SERIES 65-A MODEL 4066-1

LP/RYX = 6.64 DEPARTURE ANGLE = 21.5 DEG FND = 1.57

WEIGHT = LIFT (LW, SEAWATER) = 1000 10000 100000 1000000 100 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 14.7 40.4 87.0 187.5 14.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 5.31 | .724 | .565 | 5.74 | .1093 | .1161 | .1076 | .1016 | .1121 | .1109 | .1154 | .1044 |
| .360 | 2.50 | .842 | .672 | 7.09 | .0823 | .0784 | .0797 | .0735 | .0857 | .0815 | .0789 | .0765 |
| .400 | 2.00 | .954 | .716 | 7.70 | .0761 | .0723 | .0694 | .0670 | .0795 | .0758 | .0728 | .0705 |
| .440 | 1.87 | .986 | .827 | 7.87 | .0679 | .0641 | .0612 | .0588 | .0715 | .0677 | .0647 | .0623 |
| .480 | -1.30 | .997 | .870 | 7.83 | .0679 | .0600 | .0571 | .0547 | .0673 | .0635 | .0606 | .0582 |
| .520 | -1.39 | .997 | .819 | 7.60 | .0657 | .0621 | .0593 | .0570 | .0691 | .0655 | .0627 | .0604 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0014 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.33 | .730 | .577 | 6.88 | .0888 | .0853 | .0826 | .0804 | .0919 | .0884 | .0857 | .0835 |
| .360 | 2.65 | .854 | .646 | 7.81 | .0744 | .0710 | .0680 | .0655 | .0783 | .0745 | .0715 | .0691 |
| .400 | 1.40 | .950 | .716 | 8.42 | .0675 | .0634 | .0602 | .0577 | .0713 | .0672 | .0640 | .0615 |
| .440 | 1.74 | .988 | .738 | 8.58 | .0597 | .0556 | .0524 | .0498 | .0636 | .0595 | .0562 | .0537 |
| .480 | -0.64 | .993 | .504 | 7.88 | .0577 | .0534 | .0504 | .0480 | .0618 | .0576 | .0543 | .0515 |
| .520 | -1.57 | .994 | .471 | 7.11 | .0635 | .0573 | .0546 | .0524 | .0641 | .0595 | .0578 | .0556 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.50 | .753 | .577 | 7.56 | .0787 | .0749 | .0719 | .0696 | .0821 | .0783 | .0753 | .0730 |
| .360 | 2.00 | .872 | .601 | 8.76 | .0698 | .0657 | .0625 | .0600 | .0734 | .0695 | .0663 | .0637 |
| .400 | 0.96 | .954 | .608 | 8.88 | .0638 | .0596 | .0563 | .0537 | .0677 | .0635 | .0602 | .0576 |
| .440 | -0.87 | .990 | .557 | 8.48 | .0581 | .0540 | .0508 | .0482 | .0619 | .0578 | .0544 | .0520 |
| .480 | -0.88 | .992 | .468 | 7.06 | .0546 | .0507 | .0477 | .0452 | .0589 | .0547 | .0512 | .0488 |
| .520 | -1.77 | .990 | .427 | 7.47 | .0559 | .0522 | .0493 | .0478 | .0603 | .0566 | .0537 | .0504 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.84 | .780 | .545 | 8.27 | .0731 | .0688 | .0658 | .0632 | .0768 | .0727 | .0688 | .0677 |
| .360 | 1.62 | .873 | .524 | 8.80 | .0635 | .0591 | .0557 | .0530 | .0674 | .0631 | .0597 | .0570 |
| .400 | 0.50 | .977 | .500 | 8.80 | .0570 | .0536 | .0502 | .0474 | .0619 | .0578 | .0542 | .0515 |
| .440 | -0.28 | .992 | .462 | 8.64 | .0537 | .0494 | .0463 | .0436 | .0575 | .0534 | .0501 | .0475 |
| .480 | -1.31 | .990 | .420 | 8.21 | .0516 | .0476 | .0444 | .0418 | .0553 | .0513 | .0481 | .0455 |
| .520 | -1.72 | .997 | .387 | 8.18 | .0523 | .0483 | .0451 | .0426 | .0560 | .0520 | .0488 | .0463 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.33 | .771 | .479 | 8.81 | .0658 | .0614 | .0581 | .0553 | .0698 | .0655 | .0627 | .0593 |
| .360 | 1.21 | .893 | .456 | 9.74 | .0561 | .0516 | .0480 | .0452 | .0603 | .0558 | .0522 | .0494 |
| .400 | 0.25 | .977 | .438 | 9.34 | .0510 | .0474 | .0448 | .0415 | .0561 | .0518 | .0480 | .0452 |
| .440 | -0.48 | .999 | .408 | 8.95 | .0480 | .0457 | .0423 | .0396 | .0547 | .0507 | .0463 | .0436 |
| .480 | -1.09 | .988 | .366 | 8.74 | .0496 | .0454 | .0420 | .0394 | .0535 | .0493 | .0460 | .0433 |
| .520 | -1.71 | .987 | .309 | 8.84 | .0504 | .0461 | .0426 | .0399 | .0544 | .0500 | .0466 | .0439 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 115.0 249.0 25.0 53.8 115.0 249.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.00 | .757 | .418 | 8.97 | .0671 | .0627 | .0592 | .0564 | .0671 | .0627 | .0592 | .0564 |
| .360 | 0.88 | .885 | .397 | 9.82 | .0541 | .0495 | .0458 | .0429 | .0585 | .0535 | .0501 | .0472 |
| .400 | 0.05 | .958 | .364 | 9.54 | .0498 | .0452 | .0416 | .0387 | .0541 | .0495 | .0458 | .0433 |
| .440 | -0.61 | .985 | .327 | 9.18 | .0481 | .0437 | .0402 | .0374 | .0522 | .0478 | .0447 | .0415 |
| .480 | -1.15 | .989 | .250 | 9.03 | .0477 | .0433 | .0399 | .0371 | .0518 | .0474 | .0449 | .0411 |
| .520 | -1.74 | .991 | .277 | 9.27 | .0483 | .0438 | .0402 | .0374 | .0525 | .0470 | .0444 | .0415 |

RESISTANCE DATA SERIES 65-4 MODEL 4966-1

LP/90X ± 6.69 DEADRISE ANGLE = 2' 1.5 DEG FNO = 1.15

WEIGHT ± LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/9(1/3) ± 7.5 LP (FT) = 14.7 40.4 97.0 187.5 19.7 41.4 97.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=1 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 3.95 | .790 | .651 | 6.63 | .0892 | .0944 | .0913 | .0885 | .1032 | .0988 | .0954 | .0926 |
| .400 | 2.41 | .920 | .685 | 7.36 | .0885 | .0899 | .0901 | .0771 | .0931 | .0884 | .0846 | .0816 |
| .440 | 1.19 | .977 | .763 | 7.61 | .0815 | .0769 | .0729 | .0699 | .0853 | .0814 | .0776 | .0745 |
| .480 | .11 | .991 | .844 | 7.73 | .0782 | .0734 | .0696 | .0665 | .0820 | .0781 | .0743 | .0712 |
| .520 | -1.00 | .995 | .935 | 7.82 | .0824 | .0775 | .0737 | .0706 | .0872 | .0823 | .0784 | .0754 |

LP/9(1/3) = 6.0 LP (FT) = 20.0 45.1 92.8 200.0 29.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.01 | .646 | .546 | 6.37 | .1124 | .1041 | .1047 | .1020 | .1143 | .1120 | .1086 | .1059 |
| .360 | 3.04 | .818 | .611 | 7.36 | .0875 | .0827 | .0789 | .0759 | .0920 | .0872 | .0834 | .0804 |
| .400 | 1.64 | .923 | .683 | 8.11 | .0801 | .0750 | .0709 | .0676 | .0837 | .0799 | .0758 | .0726 |
| .440 | .68 | .978 | .780 | 8.46 | .0739 | .0686 | .0644 | .0611 | .0771 | .0733 | .0696 | .0662 |
| .480 | -.25 | .993 | .699 | 0.16 | .0714 | .0667 | .0626 | .0594 | .0754 | .0717 | .0676 | .0644 |
| .520 | -1.14 | .992 | .530 | 7.60 | .0754 | .0705 | .0666 | .0635 | .0800 | .0751 | .0713 | .0682 |

LP/9(1/3) = 8.5 LP (FT) = 41.7 45.4 98.6 212.5 21.7 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.74 | .715 | .608 | 7.00 | .0935 | .0888 | .0852 | .0822 | .0978 | .0931 | .0894 | .0865 |
| .360 | 2.77 | .834 | .599 | 8.06 | .0776 | .0724 | .0683 | .0650 | .0826 | .0774 | .0733 | .0700 |
| .400 | 1.10 | .931 | .693 | 8.81 | .0735 | .0680 | .0636 | .0601 | .0789 | .0734 | .0690 | .0655 |
| .440 | .28 | .945 | .721 | 9.04 | .0722 | .0665 | .0621 | .0585 | .0777 | .0721 | .0675 | .0641 |
| .480 | -.55 | .992 | .629 | 8.64 | .0700 | .0645 | .0602 | .0567 | .0753 | .0699 | .0655 | .0620 |
| .520 | -1.31 | .999 | .502 | 8.13 | .0713 | .0666 | .0625 | .0592 | .0768 | .0716 | .0675 | .0642 |

LP/9(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.87 | .745 | .540 | 9.14 | .0812 | .0759 | .0717 | .0683 | .0862 | .0800 | .0767 | .0733 |
| .360 | 1.77 | .844 | .582 | 9.22 | .0711 | .0653 | .0606 | .0569 | .0764 | .0709 | .0662 | .0625 |
| .400 | .79 | .949 | .643 | 9.6" | .0700 | .0640 | .0593 | .0555 | .0759 | .0699 | .0652 | .0614 |
| .440 | -.07 | .949 | .656 | 9.57 | .0677 | .0618 | .0571 | .0534 | .0736 | .0675 | .0630 | .0592 |
| .480 | -.75 | .991 | .616 | 9.25 | .0661 | .0603 | .0554 | .0521 | .0717 | .0660 | .0614 | .0578 |
| .520 | -1.47 | .997 | .527 | 8.92 | .0679 | .0623 | .0579 | .0543 | .0734 | .0678 | .0633 | .0598 |

LP/9(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.29 | .757 | .513 | 9.43 | .0734 | .0673 | .0625 | .0586 | .0792 | .0730 | .0682 | .0644 |
| .360 | 1.36 | .864 | .546 | 10.09 | .0672 | .0604 | .0558 | .0517 | .0734 | .0670 | .0619 | .0579 |
| .400 | .50 | .963 | .579 | 10.14 | .0651 | .0588 | .0539 | .0499 | .0714 | .0651 | .0601 | .0561 |
| .440 | -.26 | .946 | .592 | 9.91 | .0625 | .0563 | .0515 | .0476 | .0685 | .0624 | .0576 | .0537 |
| .480 | -.88 | .989 | .560 | 9.69 | .0624 | .0564 | .0516 | .0478 | .0683 | .0623 | .0575 | .0537 |
| .520 | -1.46 | .986 | .478 | 9.47 | .0651 | .0591 | .0543 | .0505 | .0710 | .0649 | .0602 | .0564 |

LP/9(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 7.07 | .752 | .477 | 9.74 | .0721 | .0659 | .0609 | .0570 | .0781 | .0718 | .0669 | .0629 |
| .360 | 1.03 | .879 | .511 | 10.37 | .0664 | .0599 | .0548 | .0507 | .0727 | .0662 | .0611 | .0570 |
| .400 | .23 | .957 | .493 | 10.71 | .0625 | .0561 | .0510 | .0470 | .0688 | .0624 | .0573 | .0533 |
| .440 | -.44 | .940 | .448 | 9.94 | .0602 | .0540 | .0491 | .0452 | .0663 | .0601 | .0552 | .0513 |
| .480 | -1.09 | .987 | .385 | 9.68 | .0603 | .0542 | .0494 | .0455 | .0662 | .0601 | .0553 | .0514 |
| .520 | -1.55 | .989 | .297 | 9.61 | .0628 | .0567 | .0519 | .0480 | .0687 | .0626 | .0577 | .0539 |

RESISTANCE DATA SERIES 35-A MODEL 4966-1

LP/VPX = 6.60 DEARRISE ANGLE = 20.5 DFC FND = 2.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 10.7 40.4 67.0 187.5 10.7 40.4 67.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 4.12 | .744 | .625 | 6.39 | .1172 | .1118 | .1075 | .1041 | .1223 | .1169 | .1126 | .1092 | |
| .400 | | .700 | .674 | 7.11 | .1007 | .0941 | .0895 | .0858 | .1057 | .0994 | .0952 | .0914 | |
| .440 | 1.32 | .968 | .739 | 7.46 | .0929 | .0868 | .0820 | .0782 | .0980 | .0929 | .0880 | .0841 | |
| .480 | .30 | .989 | .830 | 7.52 | .0904 | .0844 | .0796 | .0758 | .0964 | .0913 | .0865 | .0826 | |
| .520 | -1.74 | .994 | .931 | 7.54 | .0964 | .0905 | .0857 | .0819 | .1025 | .0965 | .0918 | .0880 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.51 | .769 | .545 | 6.85 | .1044 | .0987 | .0941 | .0905 | .1099 | .1042 | .0996 | .0960 | |
| .400 | 2.00 | .891 | .639 | 7.70 | .0944 | .0888 | .0829 | .0789 | .1006 | .0942 | .0892 | .0851 | |
| .440 | .85 | .967 | .775 | 8.18 | .0874 | .0808 | .0757 | .0715 | .0939 | .0874 | .0822 | .0780 | |
| .480 | -.30 | .992 | .809 | 8.09 | .0867 | .0803 | .0752 | .0711 | .0931 | .0867 | .0817 | .0776 | |
| .520 | -1.00 | .992 | .779 | 7.90 | .0919 | .0856 | .0807 | .0767 | .0982 | .0920 | .0870 | .0830 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.34 | .669 | .527 | 6.60 | .1124 | .1068 | .1023 | .0988 | .1177 | .1120 | .1076 | .1041 | |
| .360 | 2.52 | .801 | .577 | 7.66 | .0977 | .0917 | .0873 | .0833 | .1008 | .0945 | .0904 | .0864 | |
| .400 | 1.36 | .908 | .658 | 8.56 | .0884 | .0826 | .0781 | .0741 | .0923 | .0854 | .0810 | .0766 | |
| .440 | .50 | .974 | .732 | 9.02 | .0840 | .0780 | .0739 | .0697 | .0912 | .0841 | .0794 | .0739 | |
| .480 | -.31 | .992 | .796 | 8.91 | .0844 | .0784 | .0742 | .0695 | .0915 | .0845 | .0790 | .0746 | |
| .520 | -1.00 | .993 | .752 | 8.77 | .0877 | .0819 | .0775 | .0730 | .0946 | .0874 | .0823 | .0780 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.8 104.4 225.0 22.5 48.8 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.25 | .706 | .516 | 7.43 | .10954 | .0992 | .0943 | .0904 | .1014 | .0951 | .0902 | .0863 | |
| .360 | 1.87 | .820 | .575 | 8.21 | .0931 | .0859 | .0802 | .0767 | .0901 | .0829 | .0773 | .0727 | |
| .400 | .93 | .938 | .661 | 9.54 | .0822 | .0746 | .0687 | .0639 | .0808 | .0723 | .0673 | .0615 | |
| .440 | .19 | .982 | .709 | 9.76 | .0819 | .0743 | .0682 | .0633 | .0819 | .0721 | .0670 | .0611 | |
| .480 | -.51 | .991 | .705 | 9.70 | .0814 | .0739 | .0678 | .0630 | .0812 | .0716 | .0665 | .0609 | |
| .520 | -1.16 | .988 | .618 | 9.84 | .0839 | .0764 | .0704 | .0656 | .0815 | .0719 | .0667 | .0612 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.42 | .777 | .512 | 8.06 | .0933 | .0857 | .0801 | .0754 | .0905 | .0821 | .0772 | .0726 | |
| .360 | 1.40 | .849 | .581 | 9.09 | .0801 | .0720 | .0657 | .0606 | .0801 | .0700 | .0647 | .0586 | |
| .400 | .62 | .945 | .635 | 10.37 | .0700 | .0618 | .0554 | .0502 | .0700 | .0601 | .0547 | .0489 | |
| .440 | -.06 | .980 | .647 | 10.47 | .0701 | .0619 | .0555 | .0503 | .0701 | .0601 | .0547 | .0489 | |
| .480 | -.67 | .988 | .608 | 10.37 | .0775 | .0694 | .0629 | .0578 | .0775 | .0677 | .0612 | .0561 | |
| .520 | -1.24 | .987 | .614 | 10.28 | .0800 | .0719 | .0654 | .0602 | .0802 | .0701 | .0636 | .0584 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.6 116.0 249.9 25.0 53.6 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .778 | .536 | 9.79 | .0822 | .0742 | .0679 | .0628 | .0800 | .0700 | .0647 | .0586 | |
| .360 | 1.00 | .867 | .566 | 10.88 | .0791 | .0707 | .0641 | .0588 | .0775 | .0672 | .0618 | .0562 | |
| .400 | .77 | .945 | .604 | 10.85 | .0700 | .0618 | .0554 | .0502 | .0700 | .0601 | .0547 | .0489 | |
| .440 | -.28 | .974 | .547 | 11.76 | .0746 | .0662 | .0595 | .0542 | .0746 | .0644 | .0591 | .0534 | |
| .480 | -.84 | .985 | .477 | 10.61 | .0749 | .0665 | .0599 | .0546 | .0749 | .0647 | .0594 | .0537 | |
| .520 | -1.35 | .989 | .378 | 10.50 | .0781 | .0696 | .0630 | .0577 | .0781 | .0679 | .0624 | .0567 | |

RESISTANCE DATA SERIES 65-A MODEL 4966-1

LP/SPX = 6.69

DEAMRISF ANGLE = 21.5 DFG

FND = 2.51

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .450 | 4.45 | .737 | .590 | 6.28 | .1446 | .1366 | .1303 | .1252 | .1525 | .1444 | .1381 | .1330 |
| .440 | 2.00 | .914 | .710 | 7.50 | .1270 | .1134 | .1066 | .1008 | .1324 | .1232 | .1160 | .1111 |
| .430 | 1.60 | .996 | .769 | 7.43 | .1207 | .1117 | .1046 | .0990 | .1299 | .1210 | .1139 | .1082 |
| .420 | -0.54 | 1.000 | .836 | 7.53 | .1342 | .1253 | .1183 | .1126 | .1476 | .1387 | .1327 | .1220 |

LP/V(1/3) = 8.0 LP (FT) = 20.1 47.1 92.0 210.0 20.0 47.1 92.0 210.0

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .460 | 5.00 | .652 | .517 | 6.93 | .1346 | .1269 | .1200 | .1160 | .1420 | .1341 | .1283 | .1234 |
| .450 | 2.67 | .916 | .610 | 7.27 | .1240 | .1150 | .1078 | .1021 | .1321 | .1240 | .1169 | .1112 |
| .440 | 1.23 | .934 | .674 | 7.02 | .1152 | .1056 | .0980 | .0919 | .1251 | .1155 | .1079 | .1018 |
| .430 | -0.16 | .980 | .751 | 8.01 | .1161 | .1066 | .0990 | .0930 | .1261 | .1165 | .1090 | .1031 |
| .420 | -1.00 | .990 | .865 | 8.02 | .1206 | .1102 | .1017 | .0957 | .1306 | .1202 | .1127 | .1057 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .460 | 3.75 | .691 | .520 | 6.73 | .1267 | .1182 | .1114 | .1060 | .1351 | .1266 | .1198 | .1144 |
| .450 | 1.80 | .953 | .590 | 8.10 | .1125 | .1026 | .0948 | .0886 | .1227 | .1129 | .1049 | .0987 |
| .440 | 0.74 | .950 | .667 | 8.00 | .1113 | .1006 | .0923 | .0856 | .1220 | .1118 | .1032 | .0968 |
| .430 | -0.12 | .991 | .749 | 8.09 | .1142 | .1038 | .0955 | .0889 | .1253 | .1149 | .1066 | .1000 |
| .420 | -1.00 | .990 | .862 | 8.03 | .1233 | .1130 | .1048 | .0981 | .1345 | .1241 | .1159 | .1093 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 40.5 104.4 225.3 22.5 40.5 104.4 225.3

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .460 | 4.81 | .694 | .553 | 6.96 | .1253 | .1182 | .1120 | .1071 | .1335 | .1257 | .1196 | .1146 |
| .450 | 2.76 | .930 | .624 | 7.61 | .1115 | .1022 | .0947 | .0887 | .1211 | .1117 | .1042 | .0982 |
| .440 | 1.17 | .944 | .695 | 8.03 | .1083 | .0975 | .0909 | .0820 | .1196 | .1088 | .1020 | .0933 |
| .430 | -0.50 | .964 | .651 | 8.56 | .1093 | .0977 | .0908 | .0816 | .1210 | .1097 | .1027 | .0935 |
| .420 | -1.29 | .997 | .724 | 9.74 | .1124 | .1000 | .0920 | .0840 | .1246 | .1122 | .1042 | .0964 |
| .410 | -1.00 | .989 | .752 | 8.84 | .1190 | .1065 | .0994 | .0921 | .1322 | .1200 | .1117 | .1044 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .460 | 3.92 | .622 | .451 | 6.76 | .1062 | .0976 | .0909 | .0854 | .1147 | .1061 | .0993 | .0939 |
| .450 | 1.71 | .792 | .540 | 8.74 | .1077 | .0971 | .0887 | .0820 | .1106 | .1001 | .096 | .0929 |
| .440 | 0.72 | .921 | .606 | 9.00 | .1008 | .0911 | .0838 | .0784 | .1211 | .1104 | .1020 | .0927 |
| .430 | -0.20 | .952 | .622 | 10.30 | .1097 | .0976 | .0900 | .0807 | .1225 | .1105 | .1009 | .0912 |
| .420 | -0.42 | .942 | .615 | 10.57 | .1122 | .0990 | .0900 | .0821 | .1256 | .1130 | .1017 | .0953 |
| .410 | -1.00 | .980 | .582 | 10.72 | .1175 | .1049 | .0950 | .0860 | .1300 | .1167 | .1044 | .0963 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 57.0 116.0 249.9 25.0 57.0 116.0 249.9

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .460 | 2.86 | .659 | .452 | 7.71 | .1017 | .0921 | .0845 | .0794 | .1113 | .1017 | .0941 | .0889 |
| .450 | 1.10 | .833 | .540 | 9.71 | .1072 | .0956 | .0864 | .0791 | .1193 | .1077 | .0986 | .0912 |
| .440 | 0.54 | .917 | .580 | 10.82 | .1006 | .0902 | .0853 | .0784 | .1219 | .1104 | .0996 | .0916 |
| .430 | -0.06 | .957 | .604 | 11.22 | .1002 | .0902 | .0859 | .0775 | .1233 | .1102 | .0990 | .0915 |
| .420 | -0.58 | .970 | .592 | 11.61 | .1115 | .0980 | .0873 | .0797 | .1260 | .1125 | .1018 | .0932 |
| .410 | -1.00 | .980 | .580 | 11.83 | .1152 | .1015 | .0905 | .0817 | .1300 | .1161 | .1057 | .0965 |

RESISTANCE DATA SERIES 65-A MODEL 4966-1

LP/RY = 6.60 DEARRISE ANGLE = 20.5 DEG FNØ = 3.00

WIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 5.26 | .591 | .438 | 4.03 | .1540 | .1466 | .1407 | .1360 | .1613 | .1535 | .1480 | .1433 |
| .400 | 4.03 | .680 | .537 | 5.70 | .1427 | .1325 | .1245 | .1181 | .1529 | .1428 | .1348 | .1283 |
| .440 | 2.39 | .822 | .620 | 7.20 | .1455 | .1332 | .1234 | .1155 | .1585 | .1461 | .1363 | .1285 |
| .480 | .85 | .957 | .694 | 7.97 | .1483 | .1350 | .1245 | .1160 | .1627 | .1494 | .1388 | .1303 |
| .520 | -1.00 | .990 | .880 | 8.84 | .1768 | .1625 | .1510 | .1418 | .1927 | .1784 | .1669 | .1577 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.0 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 4.86 | .603 | .454 | 4.73 | .1460 | .1374 | .1306 | .1252 | .1545 | .1470 | .1392 | .1337 |
| .400 | 3.50 | .702 | .524 | 6.14 | .1467 | .1361 | .1277 | .1210 | .1576 | .1470 | .1386 | .1316 |
| .440 | 2.00 | .836 | .605 | 7.72 | .1546 | .1415 | .1312 | .1228 | .1685 | .1554 | .1451 | .1367 |
| .480 | .93 | .969 | .658 | 8.85 | .1552 | .1406 | .1290 | .1196 | .1711 | .1565 | .1449 | .1355 |
| .520 | -.26 | 1.000 | .829 | 9.33 | .1684 | .1534 | .1414 | .1318 | .1852 | .1702 | .1582 | .1486 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 5.23 | .538 | .394 | 4.37 | .1438 | .1350 | .1294 | .1244 | .1516 | .1436 | .1373 | .1322 |
| .360 | 4.06 | .625 | .470 | 5.57 | .1413 | .1315 | .1236 | .1174 | .1514 | .1415 | .1337 | .1274 |
| .400 | 2.59 | .738 | .537 | 7.19 | .1471 | .1347 | .1249 | .1170 | .1600 | .1476 | .1379 | .1300 |
| .440 | 1.32 | .886 | .594 | 8.82 | .1495 | .1348 | .1232 | .1138 | .1654 | .1507 | .1390 | .1296 |
| .480 | .78 | .994 | .674 | 9.65 | .1529 | .1369 | .1242 | .1139 | .1707 | .1547 | .1419 | .1317 |
| .520 | -.48 | 1.000 | .818 | 10.10 | .1660 | .1499 | .1371 | .1268 | .1842 | .1681 | .1553 | .1449 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 111.2 237.4 23.7 51.2 111.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.38 | .558 | .417 | 5.24 | .1314 | .1220 | .1146 | .1086 | .1408 | .1314 | .1240 | .1180 |
| .360 | 2.62 | .666 | .488 | 7.05 | .1345 | .1223 | .1126 | .1048 | .1472 | .1349 | .1253 | .1175 |
| .400 | 1.43 | .813 | .542 | 8.80 | .1382 | .1235 | .1117 | .1023 | .1541 | .1393 | .1276 | .1181 |
| .440 | .50 | .911 | .602 | 10.00 | .1407 | .1244 | .1114 | .1009 | .1587 | .1424 | .1294 | .1189 |
| .480 | -.23 | .970 | .726 | 10.52 | .1487 | .1319 | .1185 | .1076 | .1676 | .1508 | .1374 | .1266 |
| .520 | -1.00 | .987 | .819 | 10.92 | .1660 | .1487 | .1349 | .1238 | .1856 | .1684 | .1546 | .1435 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.50 | .588 | .416 | 6.19 | .1249 | .1140 | .1054 | .0984 | .1361 | .1252 | .1165 | .1096 |
| .360 | 2.00 | .704 | .489 | 8.30 | .1274 | .1136 | .1024 | .0933 | .1427 | .1285 | .1173 | .1083 |
| .400 | .91 | .849 | .535 | 9.88 | .1371 | .1208 | .1078 | .0974 | .1549 | .1386 | .1256 | .1152 |
| .440 | .14 | .929 | .625 | 10.86 | .1452 | .1277 | .1137 | .1025 | .1648 | .1472 | .1333 | .1220 |
| .480 | -.49 | .966 | .730 | 11.51 | .1534 | .1352 | .1207 | .1089 | .1741 | .1559 | .1414 | .1296 |
| .520 | -1.06 | .986 | .805 | 11.96 | .1661 | .1474 | .1325 | .1204 | .1877 | .1689 | .1540 | .1419 |

RESISTANCE DATA SERIES 65-A MODEL 4966-1

LP/HPX = 6.60 DEADRISE ANGLE = 20.5 DEG FNV = 3.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.0 LP (FT) = 22.5 4a.5 104.4 225.0 22.5 40.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | -.01 | .593 | .414 | 5.73 | .1110 | .0974 | .0866 | .0779 | .1251 | .1114 | .1006 | .0920 |

 LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 116.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 4.68 | .528 | .368 | 4.32 | .1627 | .1523 | .1441 | .1375 | .1733 | .1629 | .1547 | .1481 |
| .360 | 3.64 | .620 | .428 | 4.43 | .1743 | .1616 | .1516 | .1435 | .1876 | .1749 | .1649 | .1568 |
| .400 | 2.65 | .700 | .478 | 6.56 | .1779 | .1629 | .1511 | .1415 | .1939 | .1790 | .1671 | .1576 |
| .440 | 1.74 | .802 | .528 | 7.98 | .1831 | .1654 | .1514 | .1400 | .2029 | .185h | .1709 | .1595 |
| .480 | .94 | .929 | .584 | 9.62 | .1948 | .1740 | .1574 | .1440 | .2183 | .1975 | .1810 | .1676 |
| .520 | .40 | 1.000 | .644 | 11.57 | .2065 | .1840 | .1661 | .1516 | .2323 | .2099 | .1900 | .1775 |

 LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 4.13 | .554 | .377 | 5.05 | .1655 | .1535 | .1441 | .1365 | .1778 | .1659 | .1564 | .1488 |
| .360 | 3.05 | .638 | .430 | 6.76 | .1705 | .1561 | .1447 | .1356 | .1858 | .1714 | .1600 | .1508 |
| .400 | 2.00 | .729 | .482 | 7.67 | .1769 | .1597 | .1461 | .1351 | .1957 | .1785 | .1649 | .1530 |
| .440 | 1.19 | .854 | .539 | 9.50 | .1906 | .1699 | .1534 | .1401 | .2138 | .1932 | .1767 | .1634 |
| .480 | .50 | .956 | .606 | 11.03 | .2069 | .1835 | .1648 | .1496 | .2339 | .2165 | .1918 | .1766 |
| .520 | -.09 | 1.000 | .725 | 11.86 | .2193 | .1946 | .1749 | .1589 | .2483 | .2236 | *LO39 | .1879 |

RESISTANCE DATA SERIES 65-A MODEL 4966-1

LP/SPX = 6.60 DEADRISE ANGLE = 20.5 DEG FNR = 4.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V (1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.00 | .552 | .357 | 5.75 | .1547 | .1369 | .1231 | .1120 | .1727 | .1557 | .1415 | .1304 |
| .360 | 1.06 | .676 | .411 | 7.33 | .1743 | .1530 | .1361 | .1224 | .1978 | .1765 | .1595 | .1458 |
| .400 | 3.94 | .825 | 1.000 | .65 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/BPX = 9.34 DEADRISE ANGLE = 20.5 DEG FNO = 1.00

WEIGHT * LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.6 43.1 92.8 200.8

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.72 | .926 | .592 | 11.00 | .0210 | .0185 | .0165 | .0149 | .0233 | .0207 | .0187 | .0172 | |
| .360 | 1.37 | .933 | .556 | 11.42 | .0178 | .0152 | .0131 | .0115 | .0201 | .0175 | .0154 | .0138 | |
| .400 | .56 | .975 | .605 | 11.80 | .0147 | .0121 | .0101 | .0085 | .0170 | .0144 | .0124 | .0108 | |
| .440 | -.09 | .988 | .651 | 12.14 | .0126 | .0101 | .0082 | .0066 | .0144 | .0123 | .0104 | .0088 | |
| .480 | -.66 | .992 | .696 | 12.44 | .0116 | .0093 | .0074 | .0059 | .0138 | .0114 | .0095 | .0081 | |
| .520 | -1.25 | .996 | .744 | 12.70 | .0129 | .0107 | .0089 | .0076 | .0127 | .0109 | .0095 | .0081 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.09 | .916 | .641 | 10.71 | .0215 | .0190 | .0170 | .0155 | .0194 | .0170 | .0151 | .0135 | |
| .360 | 1.02 | .986 | .685 | 10.71 | .0173 | .0148 | .0129 | .0114 | .0177 | .0153 | .0134 | .0119 | |
| .400 | .18 | .995 | .733 | 10.73 | .0156 | .0131 | .0113 | .0097 | .0168 | .0144 | .0125 | .0111 | |
| .440 | -.53 | .994 | .777 | 10.64 | .0146 | .0123 | .0104 | .0089 | .0160 | .0137 | .0119 | .0105 | |
| .480 | -1.21 | .996 | .820 | 10.34 | .0139 | .0117 | .0098 | .0080 | .0160 | .0137 | .0119 | .0105 | |
| .520 | -1.94 | 1.000 | 1.000 | 9.69 | .0131 | .0110 | .0093 | .0080 | .0150 | .0129 | .0113 | .0099 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.72 | .926 | .592 | 11.00 | .0210 | .0185 | .0165 | .0149 | .0233 | .0207 | .0187 | .0172 | |
| .360 | .78 | .984 | .636 | 11.04 | .0177 | .0152 | .0132 | .0116 | .0199 | .0174 | .0154 | .0139 | |
| .400 | .03 | .992 | .689 | 10.99 | .0155 | .0130 | .0111 | .0096 | .0177 | .0152 | .0133 | .0117 | |
| .440 | -.61 | .991 | .749 | 10.84 | .0141 | .0116 | .0098 | .0082 | .0162 | .0138 | .0119 | .0104 | |
| .480 | -1.24 | .994 | .821 | 10.57 | .0131 | .0108 | .0090 | .0075 | .0152 | .0129 | .0111 | .0096 | |
| .520 | -1.96 | 1.000 | .919 | 10.00 | .0127 | .0105 | .0088 | .0074 | .0147 | .0125 | .0108 | .0094 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.37 | .933 | .556 | 11.42 | .0213 | .0187 | .0166 | .0150 | .0235 | .0209 | .0189 | .0173 | |
| .360 | .56 | .975 | .605 | 11.80 | .0178 | .0152 | .0131 | .0115 | .0201 | .0175 | .0154 | .0138 | |
| .400 | -.09 | .988 | .651 | 12.14 | .0147 | .0121 | .0101 | .0085 | .0170 | .0144 | .0124 | .0108 | |
| .440 | -.66 | .992 | .696 | 12.44 | .0126 | .0101 | .0082 | .0066 | .0144 | .0123 | .0104 | .0088 | |
| .480 | -1.25 | .996 | .744 | 12.70 | .0116 | .0093 | .0074 | .0059 | .0138 | .0114 | .0095 | .0081 | |
| .520 | -1.94 | 1.000 | .803 | 10.06 | .0129 | .0107 | .0089 | .0076 | .0127 | .0109 | .0095 | .0081 | |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/BPX = 9.34 DEADRISE ANGLE = 20.5 DEG FNV = 1.25

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 k3.1 92.8 2a0.0 20.0 43.1 92.6 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 2.13 | .956 | .781 | 10.55 | .0440 | .0404 | .0375 | .0352 | .0437 | .0408 | .0385 | .0365 |
| .400 | 1.33 | .981 | .781 | 10.55 | .0368 | .0332 | .0304 | .0216 | .0401 | .0365 | .0337 | .0314 |
| .440 | .00 | .952 | 10.32 | .0299 | .0265 | .0237 | .0201 | .0332 | .0297 | .0270 | .0248 | |
| .480 | -.70 | 1.000 | 1.000 | 10.16 | .0283 | .0249 | .0222 | .0201 | .0315 | .0281 | .0254 | .0233 |
| .520 | -1.40 | 1.000 | 1.000 | 10.19 | .0329 | .0294 | .0268 | .0247 | .0360 | .0326 | .0300 | .0278 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 41.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.73 | .862 | .666 | 10.96 | .0388 | .0350 | .0320 | .0296 | .0422 | .0384 | .0354 | .0331 |
| .360 | 1.57 | .959 | .712 | 11.30 | .0343 | .0304 | .0274 | .0250 | .0378 | .0340 | .0310 | .0286 |
| .400 | .60 | .994 | .855 | 11.64 | .0298 | .0259 | .0229 | .0205 | .0334 | .0296 | .0265 | .0241 |
| .440 | -.27 | .997 | 1.000 | 11.77 | .0255 | .0216 | .0186 | .0162 | .0291 | .0253 | .0223 | .0198 |
| .480 | -1.04 | .997 | 1.000 | 11.46 | .0234 | .0197 | .0167 | .0144 | .0270 | .0233 | .0203 | .0180 |
| .520 | -1.93 | 1.099 | .966 | 10.35 | .0247 | .0213 | .0186 | .0165 | .0279 | .0245 | .0219 | .0197 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.33 | .864 | .633 | 11.35 | .0369 | .0331 | .0300 | .0276 | .0405 | .0366 | .0335 | .0311 |
| .360 | 1.23 | .973 | .688 | 11.81 | .0338 | .0299 | .0267 | .0243 | .0375 | .0336 | .0304 | .0279 |
| .400 | .37 | .993 | .801 | 11.95 | .0280 | .0241 | .0210 | .0185 | .0318 | .0278 | .0247 | .0222 |
| .440 | -.27 | .994 | .891 | 11.91 | .0240 | .0202 | .0170 | .0146 | .0278 | .0239 | .0208 | .0184 |
| .480 | -1.05 | .993 | .979 | 11.65 | .0211 | .0174 | .0144 | .0120 | .0248 | .0210 | .0180 | .0157 |
| .520 | -1.88 | 1.000 | 1.000 | 11.01 | .0223 | .0187 | .0159 | .0136 | .0257 | .0222 | .0194 | .0171 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 1.99 | .845 | .601 | 11.76 | .0353 | .0313 | .0282 | .0257 | .0390 | .0350 | .0318 | .0293 |
| .360 | .89 | .971 | .644 | 12.01 | .0301 | .0261 | .0230 | .0204 | .0339 | .0299 | .0267 | .0242 |
| .400 | .16 | .988 | .688 | 11.91 | .0254 | .0215 | .0184 | .0159 | .0291 | .0252 | .0221 | .0196 |
| .440 | -.45 | .991 | .758 | 11.79 | .0223 | .0185 | .0154 | .0130 | .0260 | .0222 | .0191 | .0167 |
| .480 | -1.57 | .993 | .836 | 11.69 | .0205 | .0168 | .0138 | .0114 | .0243 | .0205 | .0175 | .0151 |
| .520 | -1.84 | 1.000 | .959 | 11.69 | .0215 | .0177 | .0148 | .0124 | .0251 | .0214 | .0184 | .0161 |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/DPX = 9.34 DEADRISE ANGLE = 20.5 DEG FNV = 1.50

 WFLIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = A.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 3.03 | .929 | .804 | 10.26 | .0657 | .0541 | .0570 | .0539 | .0702 | .0654 | .0615 | .0586 |
| .400 | 2.03 | .978 | .804 | 11.26 | .0589 | .0541 | .0570 | .0472 | .0636 | .0587 | .0548 | .0518 |
| .440 | .87 | .992 | .874 | 10.17 | .0533 | .0485 | .0448 | .0418 | .0579 | .0531 | .0493 | .0463 |
| .480 | -0.15 | 1.000 | .984 | 9.69 | .0479 | .0434 | .0398 | .0370 | .0522 | .0477 | .0442 | .0413 |
| .520 | -1.09 | 1.000 | 1.000 | 8.80 | .0407 | .0367 | .0336 | .0310 | .0447 | .0407 | .0375 | .0350 |

LP/V(1/3) = A.5 LP (FT) = 29.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.06 | .793 | .640 | 9.91 | .0714 | .0665 | .0627 | .0597 | .0759 | .0710 | .0672 | .0641 |
| .360 | 2.73 | .904 | .712 | 10.36 | .0619 | .0569 | .0530 | .0499 | .0666 | .0616 | .0577 | .0546 |
| .400 | 1.51 | .975 | .743 | 10.41 | .0555 | .0486 | .0447 | .0416 | .0582 | .0532 | .0494 | .0463 |
| .440 | .52 | .995 | .874 | 10.47 | .0469 | .0421 | .0380 | .0352 | .0516 | .0468 | .0430 | .0400 |
| .480 | -0.27 | 1.000 | 1.000 | 10.44 | .0438 | .0390 | .0353 | .0322 | .0485 | .0437 | .0400 | .0369 |
| .520 | -1.05 | 1.030 | 1.000 | 10.26 | .0447 | .0400 | .0364 | .0335 | .0493 | .0447 | .0410 | .0381 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 144.4 225.0 22.5 48.5 144.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 5.34 | .807 | .633 | 10.41 | .0636 | .0585 | .0545 | .0514 | .0682 | .0632 | .0592 | .0561 |
| .360 | 2.10 | .916 | .680 | 10.70 | .0565 | .0515 | .0476 | .0444 | .0614 | .0564 | .0524 | .0492 |
| .400 | 1.13 | .933 | .750 | 10.88 | .0498 | .0447 | .0407 | .0375 | .0547 | .0496 | .0456 | .0424 |
| .440 | .25 | .997 | .913 | 11.35 | .0401 | .0356 | .0315 | .0282 | .0459 | .0407 | .0366 | .0333 |
| .480 | -0.52 | .997 | 1.000 | 11.13 | .0361 | .0310 | .0270 | .0238 | .0412 | .0361 | .0321 | .0288 |
| .520 | -1.29 | .998 | 1.000 | 10.45 | .0388 | .0341 | .0304 | .0274 | .0435 | .0388 | .0351 | .0321 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 21.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.84 | .807 | .617 | 10.83 | .0598 | .0546 | .0505 | .0472 | .0646 | .0594 | .0553 | .0521 |
| .360 | 1.68 | .930 | .665 | 11.18 | .0519 | .0467 | .0426 | .0393 | .0570 | .0517 | .0476 | .0443 |
| .400 | .78 | .984 | .798 | 11.69 | .0436 | .0383 | .0340 | .0307 | .0480 | .0425 | .0382 | .0349 |
| .440 | .13 | .993 | .963 | 12.12 | .0352 | .0308 | .0265 | .0231 | .0417 | .0363 | .0320 | .0285 |
| .480 | -0.64 | .994 | 1.000 | 12.08 | .0333 | .0280 | .0237 | .0203 | .0388 | .0334 | .0292 | .0258 |
| .520 | -1.31 | 1.000 | 1.000 | 11.36 | .0364 | .0313 | .0274 | .0242 | .0415 | .0364 | .0325 | .0293 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.40 | .818 | .600 | 11.28 | .0522 | .0468 | .0426 | .0392 | .0572 | .0519 | .0477 | .0443 |
| .360 | 1.23 | .952 | .671 | 11.99 | .0435 | .0380 | .0336 | .0301 | .0489 | .0434 | .0390 | .0355 |
| .400 | .47 | .991 | .798 | 12.41 | .0367 | .0311 | .0267 | .0232 | .0423 | .0367 | .0323 | .0287 |
| .440 | -0.16 | .998 | .937 | 12.59 | .0328 | .0272 | .0227 | .0192 | .0385 | .0329 | .0284 | .0248 |
| .480 | -0.72 | .995 | .971 | 12.55 | .0318 | .0262 | .0213 | .0183 | .0375 | .0319 | .0275 | .0240 |
| .520 | -1.37 | 1.000 | .994 | 12.21 | .0345 | .0291 | .0248 | .0214 | .0399 | .0346 | .0303 | .0269 |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/SPX = 9.34 DEADRISE ANGLE = 20.5 OFG FNW = 1.75

WFLIGHT = L I F T (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.1

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 5.26 | .731 | 0.00 | 9.29 | .0399 | .0937 | .0899 | .0850 | .0956 | .0994 | .0945 | .0907 | |
| .360 | 3.70 | .864 | .695 | 9.50 | .0845 | .0784 | .0736 | .0698 | .0904 | .0842 | .0794 | .0756 | |
| .400 | 2.39 | .965 | .786 | 10.03 | .0660 | .0667 | .0617 | .0578 | .0791 | .0728 | .0679 | .0639 | |
| .440 | 1.23 | .991 | .867 | 10.53 | .0642 | .0577 | .0526 | .0484 | .0707 | .0642 | .0590 | .0549 | |
| .480 | .11 | 1.080 | .963 | 10.49 | .0621 | .0557 | .0506 | .0466 | .0686 | .0621 | .0571 | .0530 | |
| .520 | -1.64 | 1.000 | 1.000 | 9.94 | .0664 | .0603 | .0556 | .0517 | .0724 | .0664 | .0616 | .0578 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 91.6 212.5 21.2 45.8 96.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.48 | .745 | .607 | 9.82 | .0777 | .0713 | .0662 | .0622 | .0959 | .0996 | .0947 | .0880 | |
| .360 | 3.06 | .866 | .682 | 10.66 | .0777 | .0713 | .0662 | .0622 | .0959 | .0996 | .0947 | .0880 | |
| .400 | 1.87 | .956 | .731 | 10.13 | .0659 | .0695 | .0645 | .0605 | .0770 | .0657 | .0607 | .0567 | |
| .440 | .76 | .997 | .834 | 10.65 | .0699 | .0625 | .0577 | .0538 | .0649 | .0588 | .0539 | .0500 | |
| .480 | -1.00 | .924 | .974 | 15.17 | .0597 | .0525 | .0476 | .0437 | .0649 | .0587 | .0539 | .0500 | |
| .520 | -1.71 | 1.000 | 1.000 | 10.63 | .0625 | .0562 | .0511 | .0471 | .0640 | .0577 | .0527 | .0488 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 49.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.71 | .757 | .602 | 10.02 | .0812 | .0747 | .0696 | .0655 | .0873 | .0888 | .0837 | .0717 | |
| .360 | 2.46 | .875 | .663 | 10.62 | .0696 | .0630 | .0577 | .0535 | .0761 | .0695 | .0642 | .0600 | |
| .400 | 1.38 | .959 | .707 | 10.79 | .0609 | .0542 | .0490 | .0448 | .0675 | .0608 | .0556 | .0514 | |
| .440 | .49 | .994 | .862 | 10.60 | .0547 | .0482 | .0431 | .0390 | .0612 | .0544 | .0497 | .0456 | |
| .480 | -1.27 | .997 | 1.000 | 10.82 | .0520 | .0457 | .0408 | .0368 | .0584 | .0522 | .0472 | .0432 | |
| .520 | -1.81 | .999 | 1.000 | 10.36 | .0533 | .0472 | .0424 | .0385 | .0597 | .0536 | .0487 | .0448 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 27.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.16 | .768 | .594 | 10.49 | .0735 | .0669 | .0616 | .0573 | .0800 | .0733 | .0680 | .0630 | |
| .360 | 1.98 | .892 | .640 | 11.01 | .0619 | .0571 | .0516 | .0473 | .0706 | .0638 | .0584 | .0541 | |
| .400 | 1.04 | .974 | .735 | 11.28 | .0574 | .0506 | .0451 | .0408 | .0643 | .0575 | .0520 | .0477 | |
| .440 | .27 | .992 | .900 | 11.51 | .0529 | .0460 | .0405 | .0362 | .0599 | .0530 | .0476 | .0432 | |
| .480 | -1.39 | .994 | 1.000 | 11.48 | .0517 | .0446 | .0392 | .0349 | .0589 | .0516 | .0463 | .0420 | |
| .520 | -1.84 | .995 | 1.000 | 11.13 | .0533 | .0469 | .0417 | .0375 | .0601 | .0536 | .0485 | .0443 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.71 | .779 | .578 | 10.89 | .0667 | .0599 | .0544 | .0501 | .0734 | .0665 | .0611 | .0567 | |
| .360 | 1.55 | .910 | .640 | 11.55 | .0553 | .0482 | .0428 | .0381 | .0624 | .0553 | .0497 | .0452 | |
| .400 | .71 | .978 | .788 | 12.16 | .0529 | .0436 | .0378 | .0332 | .0583 | .0510 | .0452 | .0406 | |
| .440 | .06 | .987 | .932 | 12.52 | .0501 | .0427 | .0369 | .0322 | .0579 | .0504 | .0446 | .0399 | |
| .480 | -1.49 | .994 | 1.000 | 12.82 | .0512 | .0440 | .0382 | .0335 | .0589 | .0516 | .0458 | .0412 | |
| .520 | -1.85 | .998 | 1.000 | 12.12 | .0549 | .0470 | .0414 | .0369 | .0614 | .0544 | .0488 | .0444 | |

RESISTANCE DATA SERIES 65-A MODFL 5204

LP/BPX = 9.34 DEADRISE ANGLE = 20.5 DEG ENV = 2.00

WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.7 43.1 92.8 200.0 20.0 47.1 92.9 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 5.73 | .705 | .596 | 9.29 | .0923 | .0847 | .0797 | .0933 | .1275 | .1124 | .1060 | .1009 |
| .360 | 3.65 | .835 | .672 | 9.63 | .0839 | .0761 | .0700 | .0738 | .0999 | .0921 | .0861 | .0811 |
| .400 | 2.73 | .934 | .746 | 11.37 | .0734 | .0652 | .0581 | .0536 | .0916 | .0839 | .0777 | .0728 |
| .440 | 1.23 | .990 | .862 | 11.06 | .0729 | .0643 | .0575 | .0520 | .0817 | .0735 | .0671 | .0619 |
| .480 | .27 | 1.000 | .949 | 11.70 | .0722 | .0632 | .0565 | .0510 | .0818 | .0732 | .0664 | .0609 |
| .520 | -.46 | 1.000 | 1.000 | 11.70 | .0722 | .0632 | .0565 | .0510 | .0775 | .0705 | .0644 | .0586 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.70 | .714 | .584 | 9.22 | .0990 | .0913 | .0852 | .0803 | .1064 | .0987 | .0926 | .0877 |
| .360 | 3.24 | .841 | .660 | 9.62 | .0877 | .0799 | .0737 | .0688 | .0954 | .0876 | .0814 | .0764 |
| .400 | 2.03 | .940 | .717 | 9.67 | .0745 | .0718 | .0657 | .0608 | .0872 | .0795 | .0734 | .0685 |
| .440 | .96 | .989 | .806 | 10.37 | .0728 | .0647 | .0583 | .0531 | .0811 | .0730 | .0666 | .0614 |
| .480 | .08 | .994 | .949 | 11.93 | .0703 | .0611 | .0538 | .0480 | .0702 | .0706 | .0633 | .0575 |
| .520 | -.64 | 1.000 | 1.000 | 12.73 | .0722 | .0625 | .0548 | .0486 | .0723 | .0726 | .0650 | .0581 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.91 | .728 | .580 | 9.49 | .0925 | .0847 | .0786 | .0736 | .1072 | .0923 | .0861 | .0812 |
| .360 | 2.73 | .840 | .646 | 10.29 | .0796 | .0713 | .0648 | .0595 | .0879 | .0796 | .0730 | .0678 |
| .400 | 1.52 | .956 | .695 | 10.52 | .0718 | .0635 | .0570 | .0517 | .0802 | .0719 | .0654 | .0604 |
| .440 | .64 | .993 | .832 | 11.84 | .0666 | .0575 | .0503 | .0445 | .0761 | .0679 | .0614 | .0560 |
| .480 | -.09 | .997 | .973 | 13.07 | .0640 | .0541 | .0463 | .0399 | .0745 | .0646 | .0587 | .0540 |
| .520 | -.82 | .997 | 1.010 | 13.27 | .0652 | .0552 | .0473 | .0409 | .0758 | .0658 | .0600 | .0516 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.35 | .741 | .575 | 10.11 | .0852 | .0769 | .0704 | .0652 | .0932 | .0850 | .0785 | .0733 |
| .360 | 2.11 | .870 | .626 | 10.86 | .0722 | .0652 | .0584 | .0529 | .0825 | .0739 | .0671 | .0616 |
| .400 | 1.23 | .963 | .691 | 11.26 | .0692 | .0604 | .0535 | .0479 | .0782 | .0694 | .0625 | .0569 |
| .440 | .39 | .990 | .873 | 12.53 | .0631 | .0536 | .0461 | .0400 | .0731 | .0636 | .0561 | .0500 |
| .480 | -.27 | .994 | 1.000 | 13.18 | .0612 | .0513 | .0435 | .0372 | .0717 | .0619 | .0540 | .0477 |
| .520 | -.87 | .995 | 1.000 | 13.07 | .0634 | .0537 | .0460 | .0397 | .0738 | .0641 | .0564 | .0502 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.6 57.9 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.73 | .760 | .570 | 10.78 | .0769 | .0682 | .0614 | .0559 | .0855 | .0768 | .0700 | .0645 |
| .360 | 1.68 | .889 | .620 | 11.47 | .0675 | .0585 | .0514 | .0457 | .0767 | .0677 | .0606 | .0548 |
| .400 | .83 | .962 | .757 | 12.27 | .0624 | .0531 | .0456 | .0396 | .0722 | .0629 | .0554 | .0495 |
| .440 | .18 | .984 | .916 | 12.03 | .0607 | .0511 | .0434 | .0372 | .0711 | .0614 | .0547 | .0476 |
| .480 | -.37 | .993 | 1.000 | 13.15 | .0617 | .0520 | .0443 | .0381 | .0722 | .0625 | .0548 | .0486 |
| .520 | -.91 | .997 | 1.000 | 12.88 | .0653 | .0558 | .0480 | .0422 | .0756 | .0661 | .0586 | .0525 |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/DPX = 9.34

DEADRISE ANGLE = 20.5 DEG

FNV = 2.50

HEIGHT = LTFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 47.1 92.8 2011.0 20.0 43.1 92.8 200.7

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 5.73 | .724 | .612 | 9.07 | .1453 | .1339 | .1250 | .1174 | .1566 | .1452 | .1362 | .1286 |
| .400 | 3.64 | .873 | .700 | 9.79 | .1174 | .1055 | .0961 | .0885 | .1206 | .1177 | .1073 | .1007 |
| .440 | 2.24 | .991 | .748 | 10.14 | .1065 | .0945 | .0850 | .0777 | .1107 | .1071 | .0976 | .0900 |
| .480 | 1.04 | 1.000 | .883 | 10.70 | .1054 | .0928 | .0829 | .0748 | .1100 | .1063 | .0963 | .0883 |
| .520 | -.07 | 1.000 | 1.000 | 11.26 | .1069 | .0960 | .0857 | .0774 | .1230 | .1101 | .0999 | .0915 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 91.6 212.5 21.2 45.3 99.4 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 4.23 | .758 | .609 | 4.71 | .1179 | .1059 | .0964 | .0889 | .1309 | .1180 | .1085 | .1009 |
| .400 | 2.73 | .892 | .692 | 9.06 | .1073 | .0951 | .0856 | .0787 | .1104 | .1075 | .0980 | .0904 |
| .440 | 1.52 | .994 | .749 | 9.81 | .1009 | .0894 | .0803 | .0720 | .1172 | .1017 | .0925 | .0852 |
| .480 | .64 | 1.000 | .845 | 10.18 | .1012 | .0895 | .0801 | .0725 | .1139 | .1022 | .0929 | .0853 |
| .520 | -.27 | 1.000 | 1.000 | 11.49 | .1081 | .0991 | .0897 | .0763 | .1225 | .1094 | .0991 | .0907 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 49.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.65 | .658 | .538 | 9.35 | .1151 | .1034 | .0942 | .0867 | .1268 | .1151 | .1058 | .0984 |
| .360 | 2.40 | .805 | .619 | 10.01 | .0991 | .0869 | .0773 | .0696 | .1116 | .0994 | .0899 | .0821 |
| .400 | 1.72 | .930 | .666 | 10.14 | .0937 | .0817 | .0722 | .0645 | .1063 | .0943 | .0848 | .0772 |
| .440 | .a2 | .985 | .783 | 10.62 | .0926 | .0803 | .0706 | .0627 | .1059 | .0936 | .0838 | .0760 |
| .480 | .05 | .995 | .943 | 11.37 | .0943 | .0814 | .0711 | .0628 | .1085 | .0956 | .0853 | .0770 |
| .520 | -.60 | 1.000 | 1.000 | 11.83 | .0987 | .0855 | .0749 | .0664 | .1135 | .1002 | .0897 | .0812 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.87 | .694 | .537 | 9.68 | .1081 | .0961 | .0866 | .0790 | .1201 | .1082 | .0987 | .0911 |
| .360 | 2.33 | .828 | .600 | 10.51 | .0967 | .0841 | .0741 | .0661 | .1098 | .0972 | .0873 | .0792 |
| .400 | 1.37 | .943 | .665 | 10.86 | .0942 | .0815 | .0715 | .0634 | .1079 | .0951 | .0850 | .0769 |
| .440 | .55 | .981 | .824 | 11.64 | .0918 | .0785 | .0679 | .0593 | .1064 | .0931 | .0825 | .0739 |
| .480 | -.09 | .992 | .969 | 12.31 | .0919 | .0781 | .0671 | .0583 | .1073 | .0935 | .0825 | .0737 |
| .520 | -.69 | .995 | 1.000 | 12.52 | .0957 | .0818 | .0707 | .0619 | .1113 | .0974 | .0863 | .0774 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 51.9 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.16 | .707 | .532 | 10.22 | .1016 | .0891 | .0793 | .0713 | .1144 | .1019 | .0920 | .0841 |
| .360 | 1.83 | .854 | .608 | 11.11 | .0933 | .0802 | .0698 | .0614 | .1077 | .0941 | .0837 | .0753 |
| .400 | .99 | .940 | .701 | 11.94 | .0891 | .0754 | .0645 | .0557 | .1040 | .0903 | .0794 | .0706 |
| .440 | .33 | .974 | .874 | 12.80 | .0864 | .0725 | .0606 | .0514 | .1024 | .0882 | .0766 | .0674 |
| .480 | -.21 | .990 | 1.000 | 13.21 | .0874 | .0727 | .0611 | .0517 | .1039 | .0897 | .0776 | .0682 |
| .520 | -.72 | .998 | 1.000 | 13.26 | .0922 | .0777 | .0661 | .0568 | .1088 | .0942 | .0827 | .0733 |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/BPX = 9.34

DEADRISE ANGLE = 20.5 DEG

FNV = 3.00

HEIGHT = LIFT (LG, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.0 98.6 212.5 21.2 45.0 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .320 | 2.26 | .700 | .524 | 7.60 | .0759 | .0653 | .0567 | .1032 | .0897 | .0791 | .0705 | |
| .360 | .80 | .784 | .607 | 7.49 | .0935 | .0807 | .0706 | .1070 | .0942 | .0846 | .0759 | |
| .400 | -.74 | .757 | .914 | 9.45 | .1096 | .0941 | .0817 | .1266 | .1111 | .0981 | .0868 | |

LP/V(1/3) = 9.6 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .360 | 3.93 | .794 | .557 | 9.72 | .1217 | .1050 | .0917 | .1392 | .1224 | .1092 | .0985 | |
| .400 | 2.00 | .846 | .636 | 10.17 | .1180 | .1012 | .0878 | .1363 | .1195 | .1061 | .0953 | |
| .440 | .93 | .975 | .753 | 10.31 | .1210 | .1044 | .0912 | .1396 | .1230 | .1097 | .0991 | |
| .480 | .03 | .943 | .947 | 10.96 | .1286 | .1114 | .0976 | .1444 | .1311 | .1173 | .1062 | |
| .520 | -.71 | 1.090 | 1.000 | 11.57 | .1381 | .1201 | .1058 | .1589 | .1409 | .1266 | .1150 | |

LP/V(1/3) = 9.5 LP (FT) = 23.1 51.2 110.2 237.4 23.1 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .320 | 5.73 | .570 | .469 | 7.59 | .1432 | .1298 | .1191 | .1569 | .1434 | .1328 | .1242 | |
| .360 | 3.46 | .710 | .548 | 10.31 | .1247 | .1072 | .0932 | .1433 | .1257 | .1118 | .1006 | |
| .400 | 1.77 | .896 | .623 | 10.61 | .1240 | .1066 | .0928 | .1431 | .1257 | .1119 | .1008 | |
| .440 | .78 | .977 | .774 | 11.18 | .1246 | .1068 | .0927 | .1447 | .1270 | .1128 | .1013 | |
| .480 | .01 | 1.000 | .860 | 11.94 | .1275 | .1088 | .0940 | .1490 | .1304 | .1155 | .1035 | |
| .520 | -.66 | 1.000 | 1.000 | 12.40 | .1357 | .1166 | .1014 | .1580 | .1389 | .1237 | .1114 | |

LP/V(1/3) = 10.0 LP (FT) = 25.1 53.8 116.0 249.9 25.1 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .320 | 4.52 | .598 | .473 | 9.48 | .1277 | .1112 | .0981 | .1448 | .1283 | .1152 | .1047 | |
| .360 | 2.30 | .774 | .547 | 10.51 | .1206 | .1031 | .0891 | .1395 | .1220 | .1081 | .0968 | |
| .400 | 1.23 | .982 | .624 | 10.93 | .1208 | .1031 | .0890 | .1405 | .1228 | .1087 | .0973 | |
| .440 | .38 | .961 | .847 | 11.79 | .1179 | .0987 | .0834 | .1401 | .1208 | .1055 | .0931 | |
| .480 | -.27 | .988 | 1.000 | 13.02 | .1217 | .1018 | .0858 | .1451 | .1252 | .1092 | .0963 | |
| .520 | -.78 | 1.000 | 1.000 | 13.87 | .1312 | .1113 | .0955 | .1547 | .1348 | .1190 | .1061 | |

RESISTANCE DATA SERIES 65-A MODEL 5204

LP/90X = 9.34

DEADRISE ANGLE = 20.5 DEG

FNW = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 10.0 LP (FT) = 25.0 s3.a lib.0 244.9 25.0 51.6 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (NEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 3.73 | .535 | .439 | 4.24 | .1704 | .1604 | .1524 | .1460 | .1809 | .1709 | .1629 | .1565 |
| .360 | 4.47 | .628 | .498 | 7.22 | .1496 | .1332 | .1202 | .1097 | .1672 | .1508 | .1378 | .1273 |
| .400 | 3.27 | .730 | .557 | 10.25 | .1534 | .1308 | .1127 | .0981 | .1786 | .1559 | .1378 | .1233 |
| .440 | 1.9 " | 0.9ae | .619 | 11.88 | .1616 | .1362 | .1160 | .0996 | .1907 | .1653 | .1451 | .1261 |
| .480 | .89 | 1.000 | .831 | 12.63 | .1779 | .1520 | .1312 | .1145 | .2088 | .1829 | .1622 | .1454 |
| .520 | -0.8 | 1.000 | 1.000 | 13.47 | .1906 | .1727 | .1501 | .1326 | 0.2242 | .2046 | .1831 | .1656 |

RESISTANCE DATA SERIES 65-A MODFL 5250

LP/PPM x 6.60 DEADWISE ANGLE x 27.7 DEG FNO x 1.00

WEIGHT x LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .360 | 2.66 | .963 | .889 | 6.06 | .0357 | .0242 | .0330 | .0211 | .0369 | .0254 | .0343 | .0233 |
| .400 | .72 | .988 | .889 | 5.93 | .0280 | .0266 | .0254 | .0245 | .0292 | .0274 | .0266 | .0257 |
| .440 | -0.05 | .988 | .811 | 5.84 | .0284 | .0270 | .0259 | .0250 | .0295 | .0281 | .0270 | .0262 |
| .480 | -2.60 | 1.000 | 1.000 | 5.00 | .0292 | .0279 | .0268 | .0260 | .0304 | .0290 | .0270 | .0271 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 3.67 | .970 | .535 | 5.91 | .0384 | .0269 | .0257 | .0248 | .0396 | .0281 | .0269 | .0260 |
| .360 | 1.66 | .970 | .574 | 6.20 | .0299 | .0284 | .0272 | .0262 | .0312 | .0297 | .0285 | .0275 |
| .400 | .11 | .987 | .617 | 6.22 | .0247 | .0228 | .0214 | .0207 | .0255 | .0240 | .0229 | .0223 |
| .440 | -1.37 | .986 | .671 | 6.05 | .0218 | .0203 | .0192 | .0183 | .0220 | .0205 | .0194 | .0185 |
| .480 | -2.87 | 1.000 | .851 | 5.97 | .0221 | .0207 | .0196 | .0188 | .0233 | .0219 | .0208 | .0200 |
| .520 | -3.96 | 1.000 | 1.000 | 6.79 | .0219 | .0205 | .0194 | .0186 | .0230 | .0216 | .0206 | .0198 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 2.47 | .993 | .472 | 6.15 | .0311 | .0296 | .0284 | .0274 | .0321 | .0304 | .0296 | .0287 |
| .360 | .07 | .973 | .486 | 6.41 | .0282 | .0266 | .0253 | .0244 | .0295 | .0279 | .0266 | .0257 |
| .400 | -0.79 | .986 | .497 | 6.32 | .0211 | .0196 | .0183 | .0174 | .0223 | .0208 | .0196 | .0186 |
| .440 | -1.62 | .983 | .501 | 6.18 | .0179 | .0163 | .0152 | .0143 | .0191 | .0176 | .0164 | .0155 |
| .480 | -2.87 | .986 | .584 | 6.09 | .0179 | .0165 | .0153 | .0144 | .0181 | .0167 | .0156 | .0146 |
| .520 | -3.86 | .989 | .771 | 6.20 | .0179 | .0162 | .0150 | .0141 | .0181 | .0164 | .0153 | .0144 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.84 | .997 | .415 | 6.41 | .0297 | .0281 | .0269 | .0259 | .0310 | .0294 | .0282 | .0274 |
| .360 | .56 | .970 | .414 | 6.67 | .0252 | .0236 | .0224 | .0214 | .0266 | .0250 | .0237 | .0227 |
| .400 | -0.53 | .984 | .411 | 6.53 | .0205 | .0189 | .0177 | .0167 | .0218 | .0202 | .0190 | .0180 |
| .440 | -1.70 | .980 | .489 | 6.45 | .0181 | .0165 | .0153 | .0143 | .0194 | .0178 | .0166 | .0156 |
| .480 | -2.87 | .984 | .437 | 6.57 | .0161 | .0145 | .0132 | .0122 | .0174 | .0158 | .0146 | .0135 |
| .520 | -3.75 | 1.000 | .461 | 6.69 | .0133 | .0117 | .0104 | .0093 | .0147 | .0130 | .0118 | .0107 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.36 | .990 | .376 | 6.70 | .0241 | .0264 | .0252 | .0241 | .0294 | .0278 | .0265 | .0255 |
| .360 | .73 | .962 | .372 | 6.92 | .0184 | .0221 | .0208 | .0199 | .0257 | .0243 | .0232 | .0224 |
| .400 | -0.80 | .984 | .366 | 6.96 | .0209 | .0192 | .0179 | .0169 | .0227 | .0210 | .0199 | .0183 |
| .440 | -1.86 | .980 | .350 | 6.99 | .0192 | .0175 | .0162 | .0151 | .0206 | .0189 | .0176 | .0165 |
| .480 | -2.83 | .991 | .317 | 7.04 | .0159 | .0141 | .0128 | .0117 | .0177 | .0159 | .0142 | .0131 |
| .520 | -3.61 | 1.000 | .269 | 7.08 | .0133 | .0116 | .0102 | .0092 | .0147 | .0130 | .0117 | .0107 |

LP/V(1/3) = 9.0 LP (FT) = 22.6 48.5 104.4 225.0 22.6 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | .97 | .991 | .343 | 6.94 | .0243 | .0267 | .0253 | .0243 | .0297 | .0281 | .0267 | .0257 |
| .360 | -0.02 | .955 | .336 | 7.26 | .0227 | .0209 | .0196 | .0185 | .0242 | .0224 | .0210 | .0199 |
| .400 | -0.97 | .986 | .320 | 7.52 | .0280 | .0182 | .0168 | .0156 | .0215 | .0197 | .0183 | .0174 |
| .440 | -1.91 | .988 | .281 | 7.62 | .0199 | .0180 | .0166 | .0155 | .0214 | .0196 | .0181 | .0170 |
| .480 | -2.75 | .987 | .212 | 7.37 | .0174 | .0156 | .0142 | .0131 | .0189 | .0171 | .0157 | .0146 |
| .520 | -3.53 | .997 | .109 | 6.61 | .0187 | .0090 | .0078 | .0067 | .0120 | .0104 | .0091 | .0081 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | .76 | .973 | .311 | 7.14 | .0245 | .0268 | .0254 | .0243 | .0299 | .0282 | .0268 | .0258 |
| .360 | -0.21 | .951 | .299 | 7.66 | .0206 | .0188 | .0174 | .0162 | .0222 | .0203 | .0189 | .0178 |
| .400 | -1.09 | .983 | .269 | 8.13 | .0189 | .0169 | .0154 | .0142 | .0205 | .0185 | .0170 | .0158 |
| .440 | -1.97 | .984 | .215 | 8.26 | .0201 | .0181 | .0166 | .0153 | .0218 | .0199 | .0182 | .0170 |
| .480 | -2.84 | .985 | .138 | 7.76 | .0190 | .0170 | .0156 | .0144 | .0205 | .0186 | .0171 | .0159 |
| .520 | -3.36 | .992 | .041 | 6.68 | .0134 | .0118 | .0105 | .0095 | .0149 | .0131 | .0118 | .0108 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | .53 | .966 | .279 | 7.42 | .0270 | .0252 | .0238 | .0227 | .0285 | .0267 | .0253 | .0242 |
| .360 | -0.36 | .948 | .259 | 8.09 | .0181 | .0162 | .0147 | .0135 | .0198 | .0179 | .0163 | .0151 |
| .400 | -1.15 | .978 | .216 | 8.73 | .0177 | .0156 | .0140 | .0127 | .0195 | .0174 | .0158 | .0145 |
| .440 | -1.93 | .984 | .156 | 8.90 | .0198 | .0176 | .0159 | .0146 | .0216 | .0194 | .0177 | .0164 |
| .480 | -2.61 | .984 | .086 | 8.71 | .0197 | .0177 | .0161 | .0148 | .0214 | .0193 | .0177 | .0165 |
| .520 | -3.25 | .989 | .008 | 6.86 | .0146 | .0125 | .0114 | .0104 | .0169 | .0157 | .0139 | .0126 |

RESISTANCE DATA SERIES E5-A MODEL 5250

LP/APX = 6.60 DEGREE ANGLE = 27.7 DEG FNV = 1.25

WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/1) : 6.5 LP (FT) = 11.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 3.97 | .495 | .672 | 5.89 | .0746 | .0722 | .7705 | .0692 | .0763 | .0741 | .7724 | .0710 | |
| 400 | 1.99 | .970 | .740 | 6.11 | .0598 | .0576 | .0559 | .0545 | .0610 | .0588 | .0574 | .0564 | |
| 440 | .26 | .993 | .822 | 6.04 | .0550 | .0529 | .0512 | .0498 | .0540 | .0517 | .0511 | .0517 | |
| 480 | -1.70 | .999 | .057 | 5.78 | .0542 | .0522 | .0506 | .0493 | .0560 | .0540 | .0524 | .0511 | |
| 520 | -2.94 | 1.000 | 1.000 | 5.55 | .0546 | .0524 | .0511 | .0499 | .0561 | .0544 | .0529 | .0517 | |

LP/W(1/3) : 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 2.93 | .927 | .637 | 6.33 | .0617 | .0594 | .0576 | .0562 | .0637 | .0614 | .0596 | .0581 | |
| 400 | 1.11 | .978 | .701 | 6.22 | .0477 | .0453 | .0445 | .0431 | .0547 | .0524 | .0505 | .0491 | |
| 440 | -.24 | .988 | .758 | 6.36 | .0457 | .0434 | .0437 | .0423 | .0497 | .0474 | .0457 | .0443 | |
| 480 | -1.76 | .997 | .873 | 6.22 | .0466 | .0445 | .0448 | .0434 | .0466 | .0444 | .0427 | .0413 | |
| 520 | -3.17 | 1.000 | 1.000 | 5.91 | .0469 | .0449 | .0433 | .0420 | .0469 | .0446 | .0427 | .0413 | |

LP/W(1/3) : 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 3.97 | .793 | .525 | 5.94 | .0676 | .0654 | .0637 | .0623 | .0695 | .0673 | .0655 | .0642 | |
| 400 | 1.94 | .926 | .540 | 6.20 | .0526 | .0501 | .0492 | .0477 | .0544 | .0522 | .0503 | .0489 | |
| 440 | -.24 | .982 | .614 | 6.41 | .0457 | .0433 | .0434 | .0419 | .0474 | .0454 | .0435 | .0420 | |
| 480 | -1.74 | .988 | .641 | 6.47 | .0407 | .0383 | .0384 | .0369 | .0427 | .0404 | .0385 | .0371 | |
| 520 | -3.25 | 1.000 | .599 | 6.25 | .0371 | .0348 | .0330 | .0316 | .0372 | .0349 | .0331 | .0316 | |

LP/W(1/3) : 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 2.91 | .912 | .511 | 6.46 | .0545 | .0521 | .0524 | .0524 | .0605 | .0581 | .0563 | .0548 | |
| 400 | 1.24 | .942 | .457 | 6.77 | .0470 | .0445 | .0426 | .0411 | .0491 | .0466 | .0447 | .0432 | |
| 440 | .06 | .980 | .458 | 6.66 | .0413 | .0390 | .0371 | .0356 | .0434 | .0410 | .0392 | .0377 | |
| 480 | -1.84 | .988 | .440 | 6.51 | .0371 | .0348 | .0329 | .0315 | .0391 | .0368 | .0350 | .0335 | |
| 520 | -3.24 | .997 | .455 | 6.55 | .0341 | .0317 | .0299 | .0284 | .0361 | .0338 | .0320 | .0305 | |

LP/W(1/3) : 8.5 LP (FT) = 21.2 45.4 94.6 212.5 21.2 45.4 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 2.07 | .947 | .415 | 6.51 | .0522 | .0498 | .0479 | .0464 | .0543 | .0519 | .0500 | .0485 | |
| 400 | .76 | .943 | .345 | 6.89 | .0426 | .0400 | .0381 | .0366 | .0445 | .0421 | .0402 | .0386 | |
| 440 | -1.28 | .977 | .342 | 6.60 | .0347 | .0323 | .0304 | .0289 | .0367 | .0343 | .0325 | .0310 | |
| 480 | -1.32 | .984 | .314 | 6.62 | .0355 | .0331 | .0312 | .0297 | .0376 | .0352 | .0333 | .0318 | |
| 520 | -3.25 | .994 | .267 | 6.86 | .0329 | .0304 | .0284 | .0269 | .0348 | .0325 | .0305 | .0290 | |

LP/W(1/3) : 9.0 LP (FT) = 22.5 44.5 104.4 225.0 22.5 44.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 1.52 | .951 | .374 | 6.55 | .0460 | .0435 | .0416 | .0401 | .0480 | .0456 | .0437 | .0422 | |
| 400 | .40 | .935 | .388 | 6.82 | .0397 | .0373 | .0354 | .0339 | .0418 | .0394 | .0375 | .0360 | |
| 440 | -1.53 | .980 | .299 | 6.99 | .0344 | .0320 | .0301 | .0286 | .0365 | .0341 | .0322 | .0307 | |
| 480 | -1.49 | .985 | .264 | 7.29 | .0334 | .0310 | .0291 | .0275 | .0354 | .0330 | .0311 | .0297 | |
| 520 | -3.40 | .987 | .199 | 7.44 | .0318 | .0294 | .0275 | .0259 | .0338 | .0314 | .0295 | .0281 | |

LP/W(1/3) : 9.5 LP (FT) = 23.7 51.2 119.2 237.4 23.7 51.2 119.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | 1.14 | .964 | .297 | 6.76 | .0424 | .0400 | .0385 | .0369 | .0448 | .0425 | .0406 | .0390 | |
| 400 | .17 | .979 | .240 | 7.17 | .0354 | .0329 | .0312 | .0296 | .0375 | .0351 | .0332 | .0317 | |
| 440 | -1.71 | .974 | .254 | 7.60 | .0316 | .0291 | .0274 | .0258 | .0337 | .0313 | .0294 | .0279 | |
| 480 | -1.62 | .987 | .224 | 8.05 | .0277 | .0252 | .0235 | .0219 | .0298 | .0274 | .0255 | .0240 | |
| 520 | -3.47 | .985 | .157 | 8.03 | .0287 | .0262 | .0245 | .0229 | .0308 | .0284 | .0265 | .0250 | |

LP/W(1/3) : 10.0 LP (FT) = 25.0 53.8 116.3 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR CDF=0 | | | | RESISTANCE/LIFT FOR CDF=0.0004 | | | | |
|-----|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LO | LO | V(2/3) | | | | | | | | | |
| 320 | .88 | .974 | .264 | 6.89 | .0417 | .0392 | .0376 | .0352 | .0431 | .0407 | .0388 | .0374 | |
| 400 | -.24 | .977 | .252 | 7.33 | .0347 | .0322 | .0305 | .0287 | .0366 | .0342 | .0323 | .0308 | |
| 440 | -1.87 | .974 | .227 | 8.18 | .0315 | .0290 | .0273 | .0254 | .0333 | .0309 | .0290 | .0275 | |
| 480 | -1.73 | .984 | .181 | 8.70 | .0271 | .0246 | .0229 | .0210 | .0289 | .0265 | .0246 | .0231 | |
| 520 | -3.11 | .987 | .087 | 7.52 | .0291 | .0266 | .0249 | .0234 | .0313 | .0289 | .0270 | .0255 | |

RESISTANCE DATA SERIES 65-A MONFL 5250

LP/PM = 6.60 DEADWISE ANGLE = 27.7 DEG FNV = 1.50

WEIGHTY LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 2.89 | .956 | .735 | 6.01 | .0887 | .0950 | .0927 | .0900 | .0908 | .0977 | .0954 | .0935 | .0915 |
| .400 | .97 | .947 | .855 | 6.07 | .0766 | .0736 | .0713 | .0694 | .0704 | .0764 | .0740 | .0721 | .0701 |
| .480 | -1.53 | .997 | .923 | 6.09 | .0761 | .0732 | .0710 | .0692 | .0708 | .0759 | .0736 | .0718 | .0700 |
| .520 | -1.77 | 1.000 | .987 | 6.03 | .0759 | .0731 | .0709 | .0691 | .0705 | .0757 | .0735 | .0717 | .0700 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 3.97 | .935 | .646 | 5.97 | .0942 | .0912 | .0888 | .0869 | .0909 | .0928 | .0915 | .0896 | .0876 |
| .400 | 1.94 | .957 | .737 | 6.07 | .0790 | .0748 | .0722 | .0702 | .0719 | .0777 | .0752 | .0732 | .0712 |
| .480 | -.52 | .944 | .802 | 6.01 | .0713 | .0681 | .0656 | .0636 | .0674 | .0710 | .0685 | .0665 | .0645 |
| .520 | -1.01 | .990 | .894 | 6.01 | .0678 | .0647 | .0623 | .0604 | .0620 | .0676 | .0652 | .0632 | .0612 |

LP/W(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 2.91 | .956 | .637 | 6.74 | .0827 | .0793 | .0767 | .0746 | .0807 | .0824 | .0807 | .0786 | .0765 |
| .400 | 1.29 | .958 | .691 | 7.05 | .0649 | .0625 | .0608 | .0606 | .0621 | .0687 | .0659 | .0639 | .0619 |
| .480 | -.04 | .985 | .768 | 7.07 | .0638 | .0604 | .0579 | .0555 | .0607 | .0635 | .0608 | .0587 | .0567 |
| .520 | -2.07 | .999 | .898 | 6.88 | .0587 | .0554 | .0528 | .0508 | .0618 | .0585 | .0569 | .0546 | .0523 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 3.97 | .748 | .535 | 6.12 | .0930 | .0898 | .0873 | .0853 | .0909 | .0927 | .0901 | .0881 | .0861 |
| .400 | 2.08 | .876 | .576 | 7.03 | .0746 | .0711 | .0684 | .0662 | .0728 | .0747 | .0716 | .0694 | .0674 |
| .480 | -.72 | .967 | .502 | 6.07 | .0635 | .0601 | .0574 | .0553 | .0606 | .0632 | .0605 | .0584 | .0564 |
| .520 | -1.86 | .991 | .546 | 6.05 | .0596 | .0563 | .0537 | .0517 | .0575 | .0593 | .0567 | .0546 | .0526 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.0 98.6 212.5 21.2 45.0 98.6 212.5

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 2.92 | .756 | .545 | 6.05 | .0827 | .0793 | .0766 | .0745 | .0808 | .0824 | .0797 | .0776 | .0755 |
| .400 | 1.40 | .897 | .592 | 6.75 | .0670 | .0636 | .0608 | .0588 | .0621 | .0668 | .0640 | .0618 | .0597 |
| .480 | -.28 | .962 | .523 | 6.39 | .0597 | .0560 | .0535 | .0515 | .0562 | .0589 | .0560 | .0540 | .0520 |
| .520 | -2.02 | .990 | .589 | 6.47 | .0510 | .0477 | .0452 | .0432 | .0474 | .0506 | .0481 | .0461 | .0441 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 2.19 | .797 | .549 | 6.65 | .0714 | .0681 | .0654 | .0633 | .0704 | .0711 | .0684 | .0663 | .0643 |
| .400 | -.07 | .892 | .595 | 6.68 | .0580 | .0547 | .0521 | .0500 | .0561 | .0577 | .0551 | .0530 | .0510 |
| .480 | -.05 | .958 | .521 | 6.44 | .0544 | .0512 | .0486 | .0466 | .0513 | .0541 | .0515 | .0495 | .0475 |
| .520 | -2.19 | .987 | .514 | 7.52 | .0457 | .0424 | .0393 | .0369 | .0466 | .0497 | .0470 | .0449 | .0429 |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 1.44 | .833 | .307 | 6.54 | .0608 | .0575 | .0549 | .0528 | .0598 | .0605 | .0579 | .0558 | .0538 |
| .400 | -.56 | .792 | .261 | 6.66 | .0425 | .0491 | .0465 | .0444 | .0495 | .0521 | .0495 | .0474 | .0453 |
| .480 | -1.30 | .959 | .277 | 6.81 | .0310 | .0476 | .0449 | .0428 | .0479 | .0507 | .0480 | .0459 | .0438 |
| .520 | -2.72 | .985 | .148 | 7.96 | .0244 | .0408 | .0372 | .0356 | .0408 | .0430 | .0408 | .0383 | .0358 |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LOG LP (FEET) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|---------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LB | LB | V(2/3) | | | | | | | | | |
| .320 | 1.21 | .883 | .268 | 6.64 | .0534 | .0502 | .0476 | .0455 | .0504 | .0512 | .0486 | .0465 | .0445 |
| .400 | -.29 | .893 | .238 | 6.98 | .0392 | .0457 | .0430 | .0408 | .0459 | .0489 | .0461 | .0440 | .0420 |
| .480 | -1.57 | .962 | .213 | 7.40 | .0284 | .0448 | .0419 | .0396 | .0447 | .0477 | .0452 | .0431 | .0410 |
| .520 | -2.74 | .984 | .054 | 8.58 | .0217 | .0380 | .0356 | .0336 | .0387 | .0410 | .0385 | .0364 | .0343 |

RESISTANCE DATA SERIES 64-A MODEL 525"

LP/BPX = 6.60 DEADRISE ANGLE = 27.7 DFG FNR = 1.75

WEIGHT - LTFT (LB, SEAWATR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 25.8 75.4 162.5 15.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 3.26 | .933 | .705 | 5.86 | .1044 | .1005 | .0974 | .0950 | .1080 | .1041 | .1010 | .0986 | |
| .400 | 1.59 | .904 | .813 | 7.01 | .0971 | .0983 | .0852 | .0820 | .0957 | .0919 | .0888 | .0864 | |
| .480 | -1.04 | .994 | .888 | 8.75 | .0879 | .0842 | .0817 | .0789 | .0914 | .0877 | .0848 | .0825 | |
| .520 | -1.40 | 1.000 | .963 | 8.03 | .0903 | .0865 | .0834 | .0810 | .0940 | .0902 | .0871 | .0847 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 51.2 175.0 17.5 37.7 51.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 4.25 | .700 | .618 | 5.72 | .1111 | .1072 | .1042 | .1018 | .1145 | .1107 | .1077 | .1053 | |
| .400 | 2.27 | .934 | .709 | 6.43 | .0917 | .0875 | .0842 | .0815 | .0956 | .0914 | .0881 | .0855 | |
| .440 | 1.81 | .900 | .770 | 6.34 | .0874 | .0793 | .0761 | .0735 | .0873 | .0832 | .0800 | .0774 | |
| .480 | -1.57 | .944 | .852 | 6.24 | .0816 | .0776 | .0744 | .0719 | .0854 | .0814 | .0783 | .0757 | |
| .520 | -1.80 | .995 | 1.000 | 6.51 | .0814 | .0773 | .0741 | .0715 | .0854 | .0813 | .0781 | .0755 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 147.5 18.7 40.4 87.0 147.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .360 | 3.23 | .874 | .614 | 5.54 | .0980 | .0937 | .0902 | .0875 | .1029 | .0977 | .0943 | .0915 | |
| .400 | 1.56 | .939 | .676 | 6.02 | .0931 | .0786 | .0751 | .0723 | .0874 | .0829 | .0793 | .0765 | |
| .440 | 1.34 | .941 | .750 | 6.00 | .0765 | .0720 | .0685 | .0657 | .0804 | .0761 | .0728 | .0700 | |
| .480 | -1.76 | .948 | .851 | 7.03 | .0729 | .0645 | .0650 | .0627 | .0772 | .0728 | .0693 | .0665 | |
| .520 | -2.37 | .997 | .944 | 7.14 | .0745 | .0700 | .0665 | .0637 | .0788 | .0744 | .0709 | .0681 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 47.1 92.4 200.0 24.0 43.1 92.4 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 4.30 | .733 | .517 | 6.22 | .1094 | .1056 | .1023 | .0997 | .1135 | .1094 | .1061 | .1035 | |
| .360 | 2.47 | .811 | .596 | 6.89 | .0894 | .0853 | .0817 | .0789 | .0940 | .0895 | .0859 | .0831 | |
| .400 | 1.97 | .849 | .568 | 7.08 | .0772 | .0727 | .0690 | .0662 | .0816 | .0770 | .0734 | .0705 | |
| .440 | -1.04 | .978 | .524 | 6.84 | .0734 | .0687 | .0653 | .0626 | .0771 | .0724 | .0684 | .0666 | |
| .480 | -1.07 | .919 | .604 | 6.72 | .0694 | .0655 | .0621 | .0594 | .0739 | .0696 | .0662 | .0635 | |
| .520 | -2.03 | .993 | .731 | 7.16 | .0641 | .0646 | .0611 | .0582 | .0735 | .0690 | .0654 | .0626 | |

LP/W(1/3) = 8.3 LP (FT) = 21.2 45.4 99.6 212.5 21.2 45.4 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 3.31 | .731 | .547 | 6.47 | .0985 | .0941 | .0906 | .0878 | .1026 | .0981 | .0947 | .0919 | |
| .360 | 1.14 | .857 | .500 | 7.01 | .0825 | .0780 | .0744 | .0716 | .0869 | .0823 | .0787 | .0759 | |
| .400 | 1.50 | .941 | .380 | 6.63 | .0739 | .0695 | .0661 | .0634 | .0780 | .0736 | .0702 | .0674 | |
| .440 | -1.35 | .977 | .246 | 5.96 | .0718 | .0674 | .0647 | .0622 | .0765 | .0721 | .0684 | .0659 | |
| .480 | -1.29 | .989 | .346 | 6.37 | .0678 | .0637 | .0604 | .0578 | .0717 | .0675 | .0643 | .0616 | |
| .520 | -2.20 | .990 | .447 | 7.12 | .0661 | .0615 | .0578 | .0549 | .0704 | .0658 | .0622 | .0593 | |

LP/W(1/3) = 8.8 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 2.80 | .751 | .471 | 6.04 | .0897 | .0851 | .0814 | .0788 | .0939 | .0893 | .0854 | .0829 | |
| .360 | 1.26 | .861 | .386 | 6.93 | .0739 | .0692 | .0656 | .0627 | .0780 | .0734 | .0699 | .0670 | |
| .400 | 1.26 | .937 | .242 | 6.37 | .0642 | .0650 | .0617 | .0590 | .0731 | .0689 | .0656 | .0629 | |
| .440 | -1.53 | .979 | .211 | 5.91 | .0646 | .0645 | .0615 | .0590 | .0723 | .0683 | .0652 | .0627 | |
| .480 | -1.44 | .989 | .296 | 6.64 | .0642 | .0594 | .0563 | .0535 | .0683 | .0639 | .0604 | .0576 | |
| .520 | -2.26 | .987 | .226 | 7.46 | .0626 | .0576 | .0537 | .0504 | .0671 | .0622 | .0587 | .0552 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 2.81 | .767 | .369 | 6.77 | .0787 | .0742 | .0707 | .0678 | .0828 | .0783 | .0744 | .0720 | |
| .360 | 1.80 | .858 | .307 | 6.80 | .0659 | .0620 | .0570 | .0551 | .0701 | .0656 | .0620 | .0592 | |
| .400 | 1.01 | .936 | .231 | 6.42 | .0656 | .0613 | .057 | .0543 | .0694 | .0652 | .0619 | .0593 | |
| .440 | -1.78 | .919 | .174 | 6.54 | .0649 | .0605 | .0571 | .0544 | .0689 | .0645 | .0611 | .0584 | |
| .480 | -1.57 | .987 | .134 | 7.36 | .0619 | .0581 | .0522 | .0491 | .0655 | .0606 | .0567 | .0537 | |
| .520 | -2.32 | .985 | .115 | 8.06 | .0592 | .0536 | .0495 | .0462 | .0641 | .0587 | .0545 | .0511 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.0 116.8 249.9 25.4 53.4 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .320 | 1.55 | .772 | .240 | 6.68 | .0682 | .0638 | .0603 | .0575 | .0723 | .0679 | .0644 | .0616 | |
| .360 | 1.57 | .858 | .249 | 6.78 | .0614 | .0569 | .0534 | .0506 | .0655 | .0611 | .0575 | .0547 | |
| .400 | -1.21 | .946 | .200 | 6.77 | .0634 | .0590 | .0555 | .0527 | .0676 | .0631 | .0594 | .0566 | |
| .440 | -1.04 | .975 | .150 | 7.32 | .0624 | .0576 | .0538 | .0504 | .0669 | .0621 | .0584 | .0553 | |
| .480 | -1.66 | .984 | .103 | 8.23 | .0587 | .0532 | .0489 | .0455 | .0637 | .0582 | .0540 | .0505 | |
| .520 | -2.76 | .984 | .068 | 8.78 | .0566 | .0503 | .0461 | .0425 | .0620 | .0561 | .0515 | .0479 | |

RESISTANCE DATA SERIES 65-A MODEL 5250

LP/BPX = 6.60

DEADRISE ANGLE = 27.7 set

FNV = 2.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.82 | .886 | .691 | 5.83 | .1212 | .1163 | .1124 | .1093 | .1259 | .1209 | .1170 | .1139 | |
| .440 | 1.75 | .978 | .773 | 5.87 | .1060 | .1011 | .0972 | .0941 | .1106 | .1056 | .1019 | .0988 | |
| .480 | -.05 | .989 | .866 | 5.69 | .0982 | .0935 | .0898 | .0868 | .1027 | .0980 | .0943 | .0914 | |
| .520 | -1.47 | 1.000 | .909 | 5.72 | .1075 | .1028 | .0991 | .0962 | .1121 | .1074 | .1037 | .1008 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 2.47 | .920 | .691 | 6.37 | .1041 | .0995 | .0953 | .0919 | .1099 | .1046 | .1004 | .0970 | |
| .440 | -.97 | .976 | .738 | 6.27 | .0942 | .0898 | .0849 | .0817 | .0992 | .0940 | .0900 | .0867 | |
| .480 | -.31 | .988 | .811 | 6.12 | .0823 | .0873 | .0833 | .0802 | .0972 | .0922 | .0882 | .0851 | |
| .520 | -1.58 | .999 | .951 | 6.44 | .0956 | .0905 | .0864 | .0831 | .1008 | .0956 | .0916 | .0883 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.59 | .793 | .587 | 6.31 | .1122 | .1068 | .1026 | .0992 | .1172 | .1119 | .1076 | .1043 | |
| .400 | 1.72 | .922 | .647 | 6.76 | .0953 | .0897 | .0853 | .0818 | .1007 | .0951 | .0907 | .0872 | |
| .440 | -.51 | .978 | .717 | 6.87 | .0848 | .0832 | .0788 | .0752 | .0943 | .0887 | .0842 | .0807 | |
| .480 | -.53 | .986 | .789 | 6.86 | .0836 | .0781 | .0738 | .0703 | .0891 | .0836 | .0792 | .0757 | |
| .520 | -1.78 | .994 | .782 | 7.10 | .0888 | .0832 | .0787 | .0751 | .0945 | .0889 | .0844 | .0808 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 2.47 | .821 | .565 | 6.64 | .0977 | .0922 | .0878 | .0843 | .1030 | .0975 | .0931 | .0896 | |
| .400 | 1.17 | .925 | .624 | 7.19 | .0892 | .0833 | .0787 | .0749 | .0949 | .0891 | .0844 | .0807 | |
| .440 | -.13 | .971 | .546 | 6.79 | .0847 | .0787 | .0743 | .0708 | .0897 | .0842 | .0798 | .0762 | |
| .480 | -.86 | .988 | .517 | 6.70 | .0822 | .0768 | .0725 | .0690 | .0876 | .0821 | .0778 | .0744 | |
| .520 | -1.89 | .993 | .845 | 7.47 | .0844 | .0785 | .0739 | .0701 | .0904 | .0845 | .0798 | .0761 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.1 99.6 212.5 21.2 45.1 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.55 | .709 | .489 | 6.20 | .1071 | .1017 | .0975 | .0941 | .1121 | .1067 | .1025 | .0991 | |
| .360 | -.87 | .832 | .860 | 7.12 | .0912 | .0853 | .0810 | .0770 | .0969 | .0910 | .0864 | .0827 | |
| .400 | -.74 | .921 | .499 | 7.13 | .0843 | .0784 | .0738 | .0701 | .0900 | .0841 | .0795 | .0758 | |
| .440 | -.19 | .959 | .701 | 6.09 | .0842 | .0791 | .0751 | .0718 | .0891 | .0840 | .0799 | .0767 | |
| .480 | -1.09 | .989 | .783 | 6.36 | .0826 | .0774 | .0732 | .0699 | .0877 | .0825 | .0783 | .0750 | |
| .520 | -2.03 | .990 | .675 | 7.57 | .0818 | .0757 | .0710 | .0672 | .0878 | .0818 | .0770 | .0732 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 224.0 22.5 48.5 104.4 224.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.79 | .729 | .495 | 6.90 | .0943 | .0886 | .0840 | .0803 | .1039 | .0981 | .0935 | .0899 | |
| .360 | 1.37 | .840 | .508 | 7.57 | .0842 | .0780 | .0732 | .0693 | .0902 | .0841 | .0797 | .0753 | |
| .400 | -.39 | .920 | .357 | 6.77 | .0809 | .0752 | .0707 | .0672 | .0862 | .0806 | .0761 | .0726 | |
| .440 | -.43 | .974 | .194 | 5.86 | .0815 | .0766 | .0726 | .0695 | .0862 | .0812 | .0773 | .0742 | |
| .480 | -1.24 | .989 | .211 | 6.46 | .0809 | .0749 | .0706 | .0672 | .0855 | .0810 | .0769 | .0723 | |
| .520 | -2.01 | .998 | .376 | 7.49 | .0808 | .0742 | .0693 | .0654 | .0863 | .0801 | .0753 | .0714 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 217.4 23.7 51.2 110.2 217.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.14 | .748 | .460 | 7.35 | .0889 | .0828 | .0779 | .0741 | .0948 | .0886 | .0835 | .0800 | |
| .360 | -.87 | .841 | .415 | 7.57 | .0782 | .0720 | .0671 | .0632 | .0842 | .0780 | .0731 | .0692 | |
| .400 | -.12 | .922 | .261 | 6.57 | .0776 | .0721 | .0678 | .0643 | .0829 | .0774 | .0730 | .0696 | |
| .440 | -.53 | .972 | .148 | 6.02 | .0787 | .0736 | .0696 | .0664 | .0835 | .0784 | .0744 | .0712 | |
| .480 | -1.35 | .987 | .090 | 6.86 | .0780 | .0722 | .0676 | .0639 | .0875 | .0826 | .0780 | .0744 | |
| .520 | -2.03 | .986 | .121 | 7.72 | .0784 | .0719 | .0667 | .0626 | .0846 | .0787 | .0729 | .0688 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.65 | .758 | .385 | 7.41 | .0905 | .0845 | .0796 | .0757 | .0966 | .0904 | .0855 | .0816 | |
| .360 | -.68 | .844 | .312 | 7.27 | .0746 | .0684 | .0636 | .0599 | .0801 | .0741 | .0694 | .0656 | |
| .400 | -.04 | .923 | .200 | 6.64 | .0753 | .0697 | .0654 | .0629 | .0806 | .0751 | .0707 | .0672 | |
| .440 | -.76 | .970 | .122 | 6.67 | .0763 | .0707 | .0663 | .0627 | .0817 | .0760 | .0716 | .0681 | |
| .480 | -1.44 | .983 | .028 | 7.53 | .0759 | .0695 | .0644 | .0604 | .0819 | .0755 | .0704 | .0664 | |
| .520 | -2.12 | .984 | .022 | 8.33 | .0762 | .0690 | .0634 | .0590 | .0828 | .0757 | .0701 | .0656 | |

RESISTANCE DATA SERIES 65-L MODEL 5250

LP/DPX = 6.60 DEADWISE ANGLE = 27.7 DEG FNV = 2.50

WEIGHT = LIF: (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .440 | 3.93 | .865 | .683 | 5.62 | .1511 | .1437 | .1378 | .1332 | .1584 | .1510 | .1451 | .1404 |
| .480 | -1.38 | .993 | .864 | 6.04 | .1293 | .1219 | .1160 | .1117 | .1369 | .1295 | .1236 | .1189 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .400 | 4.46 | .765 | .574 | 5.56 | .1543 | .1471 | .1414 | .1369 | .1612 | .1540 | .1484 | .1438 |
| .440 | 2.11 | .926 | .693 | 6.47 | .1302 | .1221 | .1158 | .1107 | .1342 | .1270 | .1219 | .1180 |
| .480 | -1.23 | .947 | .792 | 6.24 | .1156 | .1073 | .1017 | .1024 | .1200 | .1125 | .1074 | .1036 |
| .520 | -1.89 | 1.000 | .943 | 6.67 | .1400 | .1330 | .1267 | .1216 | .1493 | .1413 | .1350 | .1299 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .400 | 2.89 | .819 | .600 | 6.32 | .1303 | .1224 | .1161 | .1110 | .1342 | .1263 | .1210 | .1169 |
| .440 | .97 | .960 | .647 | 6.93 | .1221 | .1137 | .1070 | .1016 | .1244 | .1165 | .1112 | .1071 |
| .480 | -1.51 | .946 | .728 | 6.85 | .1156 | .1073 | .1008 | .0955 | .1247 | .1169 | .1113 | .1071 |
| .520 | -2.03 | .946 | .867 | 6.76 | .1317 | .1237 | .1173 | .1122 | .1472 | .1391 | .1338 | .1296 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 41.1 92.8 200.0 20.0 41.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .360 | 3.97 | .715 | .511 | 5.95 | .1362 | .1286 | .1226 | .1174 | .1436 | .1360 | .1300 | .1252 |
| .400 | 1.78 | .869 | .594 | 7.83 | .1216 | .1129 | .1061 | .1006 | .1304 | .1217 | .1149 | .1094 |
| .440 | -1.43 | .957 | .641 | 7.44 | .1141 | .1051 | .0979 | .0922 | .1234 | .1144 | .1072 | .1015 |
| .480 | -1.74 | .945 | .691 | 7.37 | .1106 | .1017 | .0947 | .0891 | .1198 | .1109 | .1039 | .0983 |
| .520 | -2.03 | .992 | .861 | 7.27 | .1242 | .1157 | .1089 | .1035 | .1333 | .1244 | .1170 | .1125 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 96.6 212.5 21.2 45.8 96.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .360 | 3.97 | .774 | .517 | 6.85 | .1223 | .1134 | .1070 | .1016 | .1309 | .1221 | .1156 | .1101 |
| .400 | .97 | .896 | .545 | 7.65 | .1127 | .1034 | .0960 | .0901 | .1222 | .1129 | .1056 | .0997 |
| .440 | -1.02 | .957 | .573 | 7.44 | .1089 | .0996 | .0922 | .0863 | .1185 | .1092 | .1014 | .0959 |
| .480 | -1.07 | .946 | .605 | 7.64 | .1091 | .1000 | .0927 | .0869 | .1187 | .1095 | .1022 | .0964 |
| .520 | -2.03 | .988 | .719 | 7.68 | .1163 | .1072 | .1001 | .0943 | .1259 | .1165 | .1097 | .1039 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 3.70 | .659 | .441 | 6.11 | .1260 | .1182 | .1121 | .1071 | .1336 | .1258 | .1197 | .1147 |
| .360 | 1.71 | .749 | .525 | 7.00 | .1121 | .1030 | .0957 | .0899 | .1216 | .1124 | .1051 | .0992 |
| .400 | .51 | .891 | .526 | 7.84 | .1092 | .0994 | .0922 | .0863 | .1190 | .1096 | .1020 | .0960 |
| .440 | -1.34 | .867 | .444 | 7.81 | .1095 | .1001 | .0927 | .0867 | .1193 | .1099 | .1024 | .0964 |
| .480 | -1.17 | .947 | .586 | 7.70 | .1109 | .1015 | .0941 | .0881 | .1205 | .1111 | .1037 | .0977 |
| .520 | -2.03 | .987 | .757 | 7.61 | .1154 | .1064 | .0990 | .0931 | .1253 | .1159 | .1085 | .1026 |

LP/W(1/3) = 9.5 LP (FT) = 21.7 51.2 110.2 237.4 21.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 2.64 | .627 | .476 | 7.22 | .1125 | .1035 | .0964 | .0907 | .1215 | .1125 | .1054 | .0997 |
| .360 | 1.12 | .814 | .491 | 7.40 | .1082 | .0986 | .0909 | .0848 | .1180 | .1084 | .1004 | .0947 |
| .400 | .14 | .912 | .441 | 7.82 | .1049 | .0944 | .0818 | .0858 | .1147 | .1042 | .0917 | .0956 |
| .440 | -1.21 | .964 | .364 | 7.74 | .1105 | .1011 | .0936 | .0877 | .1202 | .1104 | .1033 | .0973 |
| .480 | -1.24 | .945 | .454 | 7.66 | .1124 | .1028 | .0952 | .0892 | .1220 | .1124 | .1046 | .0987 |
| .520 | -1.91 | .946 | .664 | 7.61 | .1161 | .1063 | .0987 | .0925 | .1256 | .1158 | .1082 | .1020 |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .320 | 1.84 | .725 | .417 | 7.86 | .1069 | .0972 | .0896 | .0834 | .1167 | .1070 | .0994 | .0933 |
| .360 | .74 | .826 | .422 | 7.97 | .1075 | .0978 | .0901 | .0839 | .1174 | .1077 | .1001 | .0939 |
| .400 | -1.03 | .916 | .330 | 7.77 | .1089 | .0994 | .0920 | .0860 | .1186 | .1091 | .1017 | .0957 |
| .440 | -1.71 | .965 | .296 | 7.67 | .1107 | .1012 | .0937 | .0877 | .1203 | .1104 | .1033 | .0973 |
| .480 | -1.37 | .983 | .381 | 7.74 | .1129 | .1030 | .0951 | .0889 | .1224 | .1124 | .1048 | .0986 |
| .520 | -1.03 | .944 | 0.711 | 7.82 | .1164 | .1062 | .0981 | .0916 | .1242 | .1139 | .1079 | .1014 |

RESISTANCE DATA SERIES 65-A MODEL 5250

LP/APX = 6.60 DEADRISE ANGLE = 21.7 DEG FNV = 3.00

WEIGHT = LIFT (LR, SEANATFR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.5 81.2 175.0 17.5 37.5 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.29 | .879 | .652 | 5.71 | .1762 | .1662 | .1583 | .1520 | .1865 | .1765 | .1686 | .1623 | |
| .440 | 1.48 | .937 | .737 | 6.61 | .1726 | .1613 | .1524 | .1453 | .1845 | .1732 | .1643 | .1572 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.5 87.3 187.5 18.7 40.5 87.3 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 2.19 | .821 | .593 | 5.81 | .1694 | .1582 | .1502 | .1437 | .1788 | .1687 | .1606 | .1542 | |
| .440 | 1.61 | .929 | .657 | 6.73 | .1645 | .1530 | .1439 | .1366 | .1766 | .1651 | .1560 | .1487 | |
| .520 | -2.07 | 1.090 | .896 | 7.94 | .2076 | .1946 | .1843 | .1759 | .2219 | .2089 | .1986 | .1902 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.13 | .743 | .517 | 5.56 | .1691 | .1503 | .1425 | .1363 | .1771 | .1603 | .1525 | .1463 | |
| .440 | 1.44 | .846 | .610 | 7.01 | .1557 | .1430 | .1336 | .1259 | .1676 | .1556 | .1462 | .1386 | |
| .480 | 0.20 | .961 | .645 | 7.40 | .1510 | .1386 | .1288 | .1208 | .1644 | .1519 | .1421 | .1341 | |
| .520 | -7.77 | .990 | .881 | 7.75 | .2019 | .1893 | .1793 | .1712 | .2169 | .2033 | .1932 | .1851 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.67 | .674 | .461 | 5.16 | .1544 | .1456 | .1383 | .1325 | .1641 | .1549 | .1476 | .1418 | |
| .400 | 1.97 | .802 | .529 | 6.05 | .1524 | .1406 | .1313 | .1237 | .1647 | .1529 | .1436 | .1361 | |
| .440 | -0.54 | .914 | .580 | 7.22 | .1462 | .1332 | .1229 | .1146 | .1600 | .1471 | .1368 | .1285 | |
| .480 | -0.53 | .970 | .594 | 8.13 | .1404 | .1250 | .1244 | .1159 | .1628 | .1495 | .1389 | .1303 | |
| .520 | -1.82 | .998 | .745 | 7.91 | .1779 | .1650 | .1548 | .1465 | .1921 | .1792 | .1690 | .1607 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 2.47 | .727 | .465 | 6.58 | .1488 | .1384 | .1293 | .1220 | .1617 | .1502 | .1412 | .1339 | |
| .400 | 0.97 | .849 | .514 | 7.59 | .1481 | .1352 | .1250 | .1168 | .1617 | .1483 | .1387 | .1305 | |
| .440 | -0.05 | .942 | .567 | 8.45 | .1466 | .1326 | .1214 | .1124 | .1610 | .1478 | .1376 | .1295 | |
| .480 | -0.89 | .992 | .580 | 8.87 | .1517 | .1374 | .1260 | .1169 | .1674 | .1530 | .1416 | .1325 | |
| .520 | -1.77 | .998 | .788 | 8.44 | .1666 | .1527 | .1417 | .1328 | .1814 | .1679 | .1569 | .1480 | |

LP/V(1/3) = 4.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.53 | .526 | .404 | 7.68 | .1455 | .1356 | .1276 | .1212 | .1559 | .1458 | .1378 | .1314 | |
| .360 | 1.67 | .757 | .446 | 7.21 | .1469 | .1346 | .1247 | .1166 | .1599 | .1475 | .1377 | .1298 | |
| .400 | 0.34 | .880 | .503 | 8.32 | .1492 | .1353 | .1242 | .1153 | .1641 | .1502 | .1392 | .1303 | |
| .440 | -0.45 | .959 | .541 | 9.17 | .1504 | .1358 | .1238 | .1142 | .1673 | .1523 | .1403 | .1307 | |
| .480 | -1.11 | .982 | .450 | 9.10 | .1545 | .1394 | .1274 | .1178 | .1709 | .1558 | .1438 | .1341 | |
| .520 | -1.75 | .986 | .767 | 8.78 | .1624 | .1477 | .1360 | .1265 | .1782 | .1635 | .1514 | .1424 | |

LP/V(1/3) = 10.0 LP (FT) = 25.1 53.4 116.0 249.9 25.1 53.4 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.47 | .658 | .407 | 6.82 | .1413 | .1294 | .1200 | .1125 | .1536 | .1417 | .1323 | .1247 | |
| .360 | 0.97 | .788 | .444 | 7.70 | .1502 | .1371 | .1267 | .1183 | .1640 | .1509 | .1405 | .1322 | |
| .400 | -0.13 | .902 | .475 | 8.95 | .1535 | .1387 | .1269 | .1175 | .1696 | .1541 | .1430 | .1335 | |
| .440 | -0.70 | .959 | .424 | 9.42 | .1556 | .1409 | .1276 | .1177 | .1726 | .1570 | .1446 | .1346 | |
| .480 | -1.27 | .977 | .269 | 9.28 | .1572 | .1416 | .1291 | .1191 | .1739 | .1583 | .1458 | .1358 | |
| .520 | -1.80 | .984 | .443 | 8.97 | .1619 | .1464 | .1341 | .1243 | .1780 | .1626 | .1503 | .1404 | |

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RESISTANCE DATA SERIES 65-A MODEL 5250

LP/DPX = 6.60

DEADRISE ANGLE = 27.7 DEG

FNP = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100800 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.96 | .620 | .460 | 3.57 | .1617 | .1530 | .1461 | .1406 | .1704 | .1617 | .1549 | .1494 | |
| .400 | 2.47 | .713 | .502 | 4.33 | .1609 | .1507 | .1425 | .1360 | .1716 | .1613 | .1531 | .1466 | |
| .440 | 1.01 | .821 | .569 | 5.82 | .1646 | .1512 | .1405 | .1319 | .1789 | .1654 | .1548 | .1462 | |
| .480 | -0.40 | .941 | .658 | 7.99 | .1725 | .1546 | .1404 | .1269 | .1921 | .1742 | .1599 | .1484 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.77 | .687 | .477 | 4.11 | .1924 | .1827 | .1750 | .1688 | .2025 | .1930 | .1850 | .1789 | |
| .440 | 2.46 | .795 | .534 | 5.19 | .1923 | .1803 | .1709 | .1632 | .2050 | .1930 | .1836 | .1759 | |
| .480 | 1.34 | .899 | .597 | 6.91 | .1925 | .1770 | .1646 | .1547 | .2094 | .1939 | .1815 | .1716 | |
| .520 | .03 | .984 | .670 | 7.93 | .2057 | .1882 | .1743 | .1631 | .2251 | .2077 | .1938 | .1826 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.0 98.6 212.5 21.2 45.0 96.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 4.12 | .621 | .413 | 4.18 | .1836 | .1736 | .1657 | .1593 | .1938 | .1838 | .1759 | .1696 | |
| .400 | 2.66 | .729 | .473 | 5.18 | .1843 | .1723 | .1628 | .1551 | .1970 | .1850 | .1755 | .1678 | |
| .440 | 1.47 | .834 | .540 | 6.92 | .1864 | .1708 | .1584 | .1484 | .2037 | .1877 | .1753 | .1653 | |
| .480 | 1.52 | .899 | .554 | 7.10 | .1874 | .1714 | .1587 | .1485 | .2048 | .1888 | .1761 | .1659 | |
| .520 | -0.53 | .977 | .593 | 7.88 | .2059 | .1886 | .1748 | .1637 | .2252 | .2079 | .1941 | .1838 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 40.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.17 | .657 | .416 | 4.93 | .1784 | .1668 | .1576 | .1502 | .1904 | .1789 | .1697 | .1623 | |
| .400 | 1.85 | .760 | .473 | 6.45 | .1849 | .1702 | .1585 | .1491 | .2007 | .1880 | .1743 | .1649 | |
| .440 | .74 | .859 | .504 | 7.65 | .1925 | .1754 | .1618 | .1509 | .2112 | .1941 | .1806 | .1696 | |
| .480 | -0.15 | .943 | .505 | 8.19 | .1996 | .1815 | .1671 | .1555 | .2196 | .2014 | .1872 | .1756 | |
| .520 | -1.12 | .979 | .629 | 9.55 | .2124 | .1939 | .1792 | .1673 | .2333 | .2148 | .2001 | .1883 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.97 | .580 | .363 | 4.51 | .1735 | .1627 | .1542 | .1473 | .1845 | .1737 | .1652 | .1584 | |
| .360 | 2.47 | .683 | .415 | 5.98 | .1821 | .1683 | .1573 | .1485 | .1947 | .1829 | .1720 | .1632 | |
| .400 | 1.17 | .788 | .454 | 7.30 | .1951 | .1787 | .1656 | .1551 | .2130 | .1966 | .1835 | .1730 | |
| .440 | .17 | .897 | .445 | 8.23 | .2024 | .1842 | .1697 | .1580 | .2226 | .2043 | .1888 | .1781 | |
| .480 | -0.56 | .966 | .470 | 8.65 | .2090 | .1897 | .1743 | .1619 | .2307 | .2113 | .1959 | .1835 | |
| .520 | -0.86 | .976 | .524 | 9.07 | .2114 | .1917 | .1761 | .1634 | .2336 | .2139 | .1983 | .1857 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.14 | .613 | .368 | 5.60 | .1767 | .1636 | .1532 | .1448 | .1904 | .1773 | .1669 | .1586 | |
| .360 | 1.73 | .713 | .406 | 6.94 | .1931 | .1773 | .1648 | .1547 | .2101 | .1943 | .1818 | .1720 | |
| .400 | .59 | .826 | .404 | 7.96 | .2056 | .1878 | .1737 | .1623 | .2251 | .2073 | .1932 | .1818 | |
| .440 | -0.27 | .928 | .395 | 8.81 | .2117 | .1927 | .1769 | .1644 | .2332 | .2139 | .1984 | .1860 | |
| .480 | -0.10 | .921 | .364 | 9.55 | .2116 | .1926 | .1776 | .1655 | .2325 | .2136 | .1985 | .1864 | |
| .520 | .05 | .907 | .356 | 9.37 | .2108 | .1922 | .1774 | .1655 | .2313 | .2127 | .1979 | .1860 | |

RESISTANCE DATA SERIES 65-L MODFL 5250

LP/BPX = 6.60 DEADRISE ANGLE = 27.7 DEG FND = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1300000 1000 10000 100000 1000000

LP/W(1/3) = 6.0 LP (FT) = 20.0 43.1 92.8 200.0 20.9 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | .16 | .586 | .323 | 4.05 | .1361 | .1233 | .1131 | .1040 | .1401 | .1362 | .1260 | .1179 | |
| .360 | -1.13 | .581 | .477 | 4.33 | .1585 | .1452 | .1347 | .1263 | .1723 | .1591 | .1486 | .1401 | |

LP/W(1/3) = 6.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .400 | 3.70 | .677 | .400 | 5.07 | .2205 | .2087 | .1975 | .1875 | .2426 | .2297 | .2195 | .2113 | |
| .440 | 2.76 | .750 | .484 | 5.87 | .2353 | .2204 | .2086 | .1991 | .2515 | .2366 | .2248 | .2153 | |
| .480 | 1.91 | .847 | .500 | 6.11 | .2452 | .2276 | .2135 | .2022 | .2648 | .2472 | .2332 | .2218 | |
| .520 | 1.11 | .931 | .520 | 7.10 | .2541 | .2377 | .2215 | .2084 | .2700 | .2507 | .2345 | .2214 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 1.9 | .618 | .380 | 4.21 | .2236 | .2108 | .2007 | .1926 | .2370 | .2243 | .2142 | .2060 | |
| .400 | 2.87 | .705 | .439 | 5.16 | .2280 | .2128 | .2007 | .1910 | .2445 | .2293 | .2192 | .2105 | |
| .440 | 1.99 | .790 | .466 | 6.29 | .2426 | .2244 | .2100 | .1987 | .2527 | .2345 | .2201 | .2104 | |
| .480 | 1.21 | .870 | .490 | 7.36 | .2597 | .2388 | .2222 | .2087 | .2632 | .2424 | .2257 | .2162 | |
| .520 | .89 | .982 | .503 | 7.76 | .2660 | .2441 | .2267 | .2126 | .2908 | .2689 | .2515 | .2374 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.1 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.97 | .560 | .335 | 4.11 | .2045 | .1919 | .1820 | .1740 | .2176 | .2051 | .1951 | .1871 | |
| .360 | 2.77 | .649 | .387 | 5.16 | .2117 | .1960 | .1838 | .1740 | .2274 | .2126 | .2003 | .1905 | |
| .400 | 1.84 | .731 | .419 | 6.28 | .2320 | .2130 | .1993 | .1876 | .2521 | .2339 | .2194 | .2076 | |
| .440 | .97 | .815 | .447 | 7.41 | .2551 | .2340 | .2172 | .2036 | .2784 | .2577 | .2439 | .2273 | |
| .480 | .18 | .908 | .471 | 8.34 | .2667 | .2433 | .2246 | .2096 | .2973 | .2720 | .2513 | .2362 | |
| .520 | -0.66 | .988 | .517 | 9.20 | .2781 | .2598 | .2396 | .2232 | .3145 | .2882 | .2690 | .2526 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.20 | .644 | .335 | 5.75 | .2013 | .1870 | .1756 | .1665 | .2165 | .2022 | .1908 | .1817 | |
| .360 | 2.17 | .654 | .373 | 6.82 | .2233 | .2052 | .1927 | .1817 | .2419 | .2249 | .2113 | .2003 | |
| .400 | 1.25 | .746 | .404 | 8.97 | .2501 | .2301 | .2181 | .2088 | .2724 | .2534 | .2364 | .2235 | |
| .440 | .37 | .849 | .483 | 8.14 | .2700 | .2470 | .2287 | .2139 | .2961 | .2731 | .2547 | .2399 | |
| .480 | -0.53 | .947 | .420 | 9.26 | .2881 | .2624 | .2419 | .2231 | .3177 | .2920 | .2715 | .2549 | |
| .520 | -1.16 | .989 | .482 | 9.91 | .3036 | .2764 | .2540 | .2373 | .3357 | .3081 | .2865 | .2690 | |

RESISTANCE DATA SERIES 65-A MODEL 5245

LP/REY = 9.34

DEADRISE ANGLE = 27.7 DEG

RNV = 1.03

WFLIGHT = LIFT (L³, SEAWATER) = 1000 10000 100000 1000000 10000000 100000000

LP/V(1/3) = 9.5 LP (FT) = 21.7 45.8 99.6 212.5 21.7 45.8 99.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.45 | .992 | .559 | 7.52 | .0257 | .0239 | .0225 | .0214 | .0272 | .0254 | .0240 | .0229 | |
| .360 | 1.58 | .992 | .595 | 7.77 | .0212 | .0194 | .0180 | .0168 | .0227 | .0209 | .0195 | .0184 | |
| .400 | -0.13 | .992 | .684 | 7.86 | .0176 | .0160 | .0144 | .0133 | .0192 | .0174 | .0160 | .0149 | |
| .440 | -1.00 | .996 | .794 | 8.03 | .0154 | .0136 | .0121 | .0110 | .0170 | .0152 | .0137 | .0126 | |
| .480 | -2.06 | .998 | .961 | 8.25 | .0149 | .0131 | .0117 | .0105 | .0166 | .0148 | .0133 | .0122 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 46.5 104.4 225.0 22.5 46.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .919 | .522 | 7.80 | .0245 | .0227 | .0210 | .0202 | .0261 | .0243 | .0229 | .0217 | |
| .360 | 1.70 | .979 | .537 | 8.07 | .0210 | .0192 | .0177 | .0165 | .0225 | .0207 | .0193 | .0181 | |
| .400 | -0.35 | .992 | .592 | 8.04 | .0163 | .0144 | .0130 | .0118 | .0176 | .0160 | .0146 | .0134 | |
| .440 | -1.21 | .991 | .666 | 8.02 | .0137 | .0112 | .0098 | .0086 | .0146 | .0128 | .0114 | .0102 | |
| .480 | -2.13 | .993 | .746 | 8.15 | .0133 | .0115 | .0100 | .0089 | .0149 | .0131 | .0116 | .0105 | |

LP/V(1/3) = 9.5 LP (FT) = 23.9 51.2 110.2 237.4 23.9 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.51 | .919 | .475 | 8.06 | .0227 | .0209 | .0193 | .0182 | .0243 | .0224 | .0209 | .0198 | |
| .360 | 0.47 | .992 | .487 | 8.38 | .0192 | .0173 | .0158 | .0146 | .0209 | .0190 | .0174 | .0162 | |
| .400 | -0.57 | .991 | .526 | 8.28 | .0145 | .0126 | .0111 | .0099 | .0161 | .0142 | .0127 | .0115 | |
| .440 | -1.35 | .998 | .560 | 8.18 | .0114 | .0095 | .0080 | .0069 | .0130 | .0111 | .0097 | .0085 | |
| .480 | -7.13 | .990 | .594 | 8.21 | .0109 | .0090 | .0075 | .0064 | .0125 | .0107 | .0092 | .0080 | |
| .520 | -2.03 | 1.000 | .587 | 8.51 | .0142 | .0123 | .0108 | .0096 | .0159 | .0140 | .0125 | .0113 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.17 | .922 | .435 | 8.33 | .0210 | .0190 | .0175 | .0163 | .0226 | .0207 | .0192 | .0180 | |
| .360 | 0.15 | .992 | .451 | 8.65 | .0176 | .0156 | .0141 | .0128 | .0194 | .0174 | .0158 | .0146 | |
| .400 | -0.66 | .989 | .471 | 8.57 | .0145 | .0126 | .0110 | .0098 | .0161 | .0143 | .0127 | .0115 | |
| .440 | -1.77 | .987 | .484 | 8.49 | .0119 | .0099 | .0084 | .0072 | .0136 | .0116 | .0101 | .0089 | |
| .480 | -2.01 | .989 | .488 | 8.50 | .0094 | .0075 | .0060 | .0050 | .0111 | .0092 | .0077 | .0065 | |
| .520 | -7.86 | 1.000 | .473 | 8.77 | .0079 | .0059 | .0043 | .0022 | .0088 | .0068 | .0052 | .0040 | |

RESISTANCE DATA SERIES 65-A MOOFL 5245

LP/9PX = 9.34 DEPARTSE ANGLE = 27.7 DEG FNV = 1.25

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 0.5 LP (FT) = 11.2 45.5 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.07 | .867 | .607 | 7.33 | .0493 | .0467 | .0446 | .0430 | .0515 | .0499 | .0469 | .0453 | |
| .360 | 1.77 | .969 | .659 | 7.44 | .0412 | .0386 | .0366 | .0350 | .0435 | .0409 | .0389 | .0373 | |
| .400 | .50 | .987 | .718 | 8.13 | .0343 | .0315 | .0293 | .0276 | .0368 | .0340 | .0319 | .0301 | |
| .440 | -0.82 | .994 | .823 | 8.38 | .0303 | .0275 | .0252 | .0235 | .0329 | .0301 | .0279 | .0261 | |
| .480 | -1.55 | .997 | .926 | 8.46 | .0291 | .0263 | .0241 | .0223 | .0318 | .0289 | .0267 | .0249 | |
| .520 | -2.66 | .999 | 1.000 | 8.51 | .0311 | .0283 | .0260 | .0243 | .0337 | .0309 | .0287 | .0269 | |

LP/V(1/3) = 0.0 LP (FT) = 23.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.80 | .976 | .569 | 7.75 | .0455 | .0428 | .0407 | .0390 | .0479 | .0452 | .0431 | .0414 | |
| .360 | 1.76 | .999 | .601 | 5.22 | .0383 | .0355 | .0333 | .0315 | .0409 | .0381 | .0358 | .0341 | |
| .400 | .11 | .991 | .650 | 8.53 | .0319 | .0289 | .0266 | .0248 | .0344 | .0315 | .0292 | .0274 | |
| .440 | -0.87 | .993 | .746 | 8.54 | .0272 | .0243 | .0221 | .0203 | .0299 | .0270 | .0247 | .0229 | |
| .480 | -1.72 | .992 | .830 | 8.55 | .0254 | .0225 | .0203 | .0185 | .0281 | .0252 | .0230 | .0212 | |
| .520 | -2.66 | 1.000 | .897 | 8.67 | .0276 | .0248 | .0225 | .0207 | .0303 | .0275 | .0252 | .0234 | |

LP/V(1/3) = 0.5 LP (FT) = 23.7 51.2 110.2 237.4 27.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.00 | .880 | .515 | 8.13 | .0418 | .0390 | .0368 | .0350 | .0444 | .0415 | .0393 | .0375 | |
| .360 | .86 | .964 | .523 | 8.56 | .0351 | .0322 | .0299 | .0280 | .0370 | .0349 | .0326 | .0307 | |
| .400 | -0.15 | .992 | .555 | 8.69 | .0291 | .0262 | .0239 | .0221 | .0314 | .0289 | .0266 | .0247 | |
| .440 | -1.00 | .991 | .604 | 8.48 | .0259 | .0222 | .0199 | .0181 | .0277 | .0248 | .0226 | .0208 | |
| .480 | -1.80 | .988 | .680 | 8.51 | .0234 | .0206 | .0183 | .0165 | .0261 | .0232 | .0210 | .0192 | |
| .520 | -2.66 | 1.000 | .780 | 8.88 | .0252 | .0224 | .0201 | .0181 | .0279 | .0250 | .0227 | .0208 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 259.9 25.8 53.9 116.0 259.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.63 | .994 | .450 | 8.21 | .0378 | .0350 | .0327 | .0309 | .0404 | .0375 | .0353 | .0335 | |
| .360 | .50 | .976 | .448 | 8.67 | .0310 | .0280 | .0257 | .0238 | .0337 | .0307 | .0284 | .0265 | |
| .400 | -0.36 | .990 | .438 | 0.52 | .0273 | .0244 | .0221 | .0202 | .0300 | .0270 | .0247 | .0229 | |
| .440 | -1.17 | .989 | .459 | 8.41 | .0248 | .0219 | .0196 | .0178 | .0274 | .0245 | .0223 | .0205 | |
| .480 | -1.82 | .987 | .527 | 8.55 | .0227 | .0198 | .0175 | .0157 | .0254 | .0225 | .0202 | .0184 | |
| .520 | -2.62 | 1.000 | .645 | 4.25 | .0205 | .0174 | .0150 | .0131 | .0234 | .0203 | .0179 | .0160 | |

RESISTANCE DATA SFRIFS 65-A MODEL 5240

LP/HPX = 9.34 DEADRISE ANGLE = 5 7 . 7 DFG FNW = 1.50

WEIGHT = L I F T (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.5 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.73 | .796 | .622 | 7.51 | .0735 | .0698 | .0669 | .0646 | .0769 | .0732 | .0703 | .0679 | |
| .360 | 2.35 | .932 | .701 | 7.23 | .0639 | .0604 | .0577 | .0556 | .0671 | .0637 | .0610 | .0588 | |
| .400 | 1.03 | .986 | .771 | 7.99 | .0529 | .0491 | .0461 | .0437 | .0564 | .0527 | .0497 | .0473 | |
| .440 | -1.13 | .992 | .844 | 8.64 | .0462 | .0422 | .0390 | .0365 | .0501 | .0461 | .0429 | .0404 | |
| .480 | -1.00 | .996 | .921 | 8.69 | .0444 | .0407 | .0376 | .0350 | .0487 | .0447 | .0415 | .0390 | |
| .520 | -2.05 | .998 | .983 | 8.57 | .0458 | .0418 | .0387 | .0363 | .0496 | .0457 | .0426 | .0401 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 3.03 | .824 | .609 | 7.83 | .0677 | .0639 | .0609 | .0585 | .0712 | .0674 | .0644 | .0620 | |
| .360 | 2.00 | .915 | .652 | 8.06 | .0623 | .0585 | .0554 | .0530 | .0669 | .0621 | .0591 | .0567 | |
| .400 | .66 | .991 | .720 | 8.66 | .0504 | .0462 | .0430 | .0404 | .0544 | .0502 | .0470 | .0447 | |
| .440 | -1.34 | .995 | .811 | 9.11 | .0445 | .0403 | .0370 | .0344 | .0486 | .0444 | .0411 | .0385 | |
| .480 | -1.20 | .994 | .914 | 9.12 | .0420 | .0379 | .0346 | .0320 | .0461 | .0420 | .0387 | .0361 | |
| .520 | -2.10 | .994 | .967 | 9.02 | .0418 | .0377 | .0345 | .0319 | .0458 | .0418 | .0385 | .0359 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.53 | .832 | .557 | 8.24 | .0620 | .0580 | .0549 | .0524 | .0657 | .0618 | .0586 | .0561 | |
| .360 | 1.41 | .926 | .575 | 8.72 | .0544 | .0502 | .0470 | .0444 | .0583 | .0542 | .0509 | .0483 | |
| .400 | .29 | .988 | .608 | 0.03 | .0451 | .0409 | .0376 | .0344 | .0492 | .0449 | .0416 | .0389 | |
| .440 | -1.58 | .994 | .659 | 8.94 | .0407 | .0366 | .0333 | .0307 | .0447 | .0406 | .0373 | .0347 | |
| .480 | -1.37 | .994 | .747 | 0.91 | .0388 | .0347 | .0315 | .0289 | .0428 | .0387 | .0355 | .0329 | |
| .520 | -2.18 | .992 | .900 | 9.16 | .0391 | .0349 | .0316 | .0290 | .0432 | .0390 | .0358 | .0331 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.4 25.0 53.8 116.0 249.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 2.13 | .838 | .484 | 8.21 | .0574 | .0535 | .0504 | .0479 | .0611 | .0572 | .0541 | .0516 | |
| .360 | 1.03 | .944 | .478 | 8.74 | .0471 | .0430 | .0397 | .0371 | .0511 | .0469 | .0437 | .0410 | |
| .400 | -0.01 | .988 | .445 | 1.71 | .0410 | .0368 | .0336 | .0310 | .0449 | .0408 | .0375 | .0349 | |
| .440 | -1.76 | .991 | .439 | 8.47 | .0390 | .0349 | .0318 | .0293 | .0428 | .0388 | .0356 | .0331 | |
| .480 | -1.46 | .966 | .519 | 1.54 | .0341 | .0301 | .0270 | .0244 | .0420 | .0380 | .0348 | .0323 | |
| .520 | -2.20 | .991 | .751 | 9.25 | .0377 | .0335 | .0302 | .0275 | .0419 | .0377 | .0343 | .0317 | |

RESISTANCE DATA SERIES 65-A MODEL 5244

LP/HPX = 9.34

DEADRISE ANGLE = 27.7 DEG

FNV = 1.75

WEIGHT LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.12 | .757 | .602 | 7.16 | .0901 | .0854 | .0817 | .0788 | .0945 | .0898 | .0861 | .0831 |
| .360 | 2.64 | .900 | .684 | 7.58 | .0792 | .0744 | .0707 | .0676 | .0839 | .0791 | .0753 | .0723 |
| .400 | 1.42 | .977 | .757 | 8.01 | .0687 | .0637 | .0598 | .0566 | .0776 | .0726 | .0687 | .0655 |
| .440 | .18 | .990 | .836 | 8.52 | .0590 | .0538 | .0496 | .0463 | .0642 | .0590 | .0548 | .0516 |
| .480 | -.80 | .996 | .917 | 8.62 | .0582 | .0530 | .0488 | .0455 | .0635 | .0583 | .0541 | .0508 |
| .520 | -1.74 | .998 | .977 | 8.49 | .0607 | .0551 | .0500 | .0478 | .0655 | .0603 | .0563 | .0530 |

LP/V(1/3) = 9.0 LP (FT) = 22.4 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.28 | .793 | .597 | 7.66 | .0796 | .0747 | .0700 | .0677 | .0847 | .0794 | .0755 | .0724 |
| .360 | ? | .899 | .648 | 8.07 | .0744 | .0693 | .0653 | .0621 | .0793 | .0743 | .0702 | .0670 |
| .400 | | .970 | .721 | 8.70 | .0631 | .0577 | .0534 | .0500 | .0685 | .0631 | .0588 | .0554 |
| .440 | | .993 | .8 | 9.19 | .0562 | .0506 | .0462 | .0426 | .0615 | .0562 | .0518 | .0482 |
| .480 | | .995 | .93 | 9.23 | .0548 | .0492 | .0448 | .0413 | .0604 | .0549 | .0505 | .0470 |
| .520 | -.8 | .994 | .976 | 9.07 | .0554 | .0500 | .0457 | .0423 | .0608 | .0556 | .0513 | .0478 |

LP/V(1/3) = 9.5 LP (FT) = 23.1 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.79 | .802 | .566 | 8.07 | .0754 | .0703 | .0662 | .0630 | .0804 | .0752 | .0712 | .0679 |
| .360 | 1.73 | .898 | .601 | 8.65 | .0692 | .0639 | .0595 | .0561 | .0745 | .0691 | .0648 | .0614 |
| .400 | .50 | .983 | .669 | 9.35 | .0573 | .0516 | .0471 | .0435 | .0631 | .0573 | .0528 | .0492 |
| .440 | -.33 | .995 | .719 | 9.40 | .0535 | .0478 | .0433 | .0397 | .0593 | .0536 | .0491 | .0454 |
| .480 | -1.12 | .992 | .794 | 9.35 | .0522 | .0466 | .0421 | .0386 | .0580 | .0523 | .0479 | .0443 |
| .520 | -1.89 | .990 | .910 | 9.37 | .0528 | .0472 | .0428 | .0392 | .0585 | .0529 | .0485 | .0450 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.40 | .807 | .522 | 8.27 | .0721 | .0668 | .0627 | .0594 | .0772 | .0719 | .0678 | .0645 |
| .360 | 1.70 | .916 | .536 | 8.91 | .0619 | .0564 | .0520 | .0485 | .0674 | .0618 | .0575 | .0539 |
| .400 | .26 | .983 | .541 | 9.28 | .0535 | .0478 | .0433 | .0396 | .0592 | .0535 | .0489 | .0454 |
| .440 | -.53 | .990 | .533 | 9.07 | .0514 | .0457 | .0414 | .0379 | .0570 | .0514 | .0470 | .0434 |
| .480 | -1.23 | .990 | .590 | 9.02 | .0513 | .0457 | .0414 | .0379 | .0568 | .0513 | .0469 | .0434 |
| .520 | -1.92 | .989 | .750 | 9.35 | .0519 | .0463 | .0418 | .0383 | .0576 | .0520 | .0476 | .0440 |

RESISTANCE DATA SERIES 65-4 MODFL 5248

LP/VPX = 9.34 DEADWISE ANGLE = 27.7 DEG FND = 2.00

 WFLIGHT * LIFT (LB, SEAWATER) . 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.9 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.44 | .729 | .577 | 6.71 | .1048 | .0992 | .0948 | .0913 | .1102 | .1046 | .1002 | .0966 |
| .360 | 2.82 | .876 | .659 | 7.69 | .0914 | .0852 | .0808 | .0767 | .0976 | .0919 | .0864 | .0825 |
| .400 | 1.65 | .965 | .725 | 8.23 | .0825 | .0759 | .0708 | .0666 | .0800 | .0725 | .0674 | .0632 |
| .440 | -.50 | .996 | .795 | 8.32 | .0718 | .0653 | .0601 | .0560 | .0705 | .0620 | .0569 | .0528 |
| .480 | -.63 | .999 | 0.8 | 8.42 | .0711 | .0646 | .0594 | .0552 | .0778 | .0713 | .0661 | .0620 |
| .520 | -1.58 | 0.997 | .966 | 8.36 | .0747 | .0683 | .0632 | .0591 | .0814 | .0749 | .0698 | .0658 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|--------|-------|--------|--------------------------------|-------|-------|-------|
| .320 | 3.50 | .763 | .579 | 7.30 | .0912 | .0851 | .0804 | .0766 | .0979 | .0910 | .0862 | .0824 |
| .360 | 2.30 | .881 | .626 | 8.01 | .0859 | .0795 | .0744 | .0704 | .0923 | .0859 | .0809 | .0768 |
| .400 | 1.18 | .958 | .704 | 8.66 | .0762 | .0694 | .0640 | .0597 | .0831 | .0763 | .0709 | .0666 |
| .440 | -.08 | .991 | 0.84 | 9.10 | .0687 | .0616 | .0561 | .0518 | .0760 | .0689 | .0637 | .0589 |
| .480 | -.82 | .995 | .963 | 9.18 | .0688 | 0.0617 | .0561 | 0.0518 | .0761 | .0691 | .0635 | .0590 |
| .520 | -1.66 | .994 | .932 | 9.63 | .0714 | .0646 | .0591 | .0547 | .0787 | .0718 | .0663 | .0619 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.95 | .777 | .552 | 7.73 | .0864 | .0801 | .0752 | .0712 | .0926 | .0863 | .0813 | .0773 |
| .360 | 1.88 | .881 | .605 | 8.44 | .0807 | .0736 | .0683 | .0640 | .0871 | .0804 | .0751 | .0708 |
| .400 | .75 | .967 | .698 | 9.38 | .0696 | .0623 | .0565 | .0519 | .0771 | .0699 | .0640 | .0594 |
| .440 | -.10 | .993 | .772 | 9.73 | .0652 | .0579 | .0519 | .0471 | .0730 | .0656 | .0596 | .0549 |
| .480 | -1.00 | .993 | .841 | 9.75 | .0659 | .0576 | .0517 | .0469 | .0725 | .0654 | .0595 | .0547 |
| .520 | ### | .990 | .916 | 9.63 | .0665 | .0592 | .0535 | .0488 | .0742 | .0669 | .0612 | .0565 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.4 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.56 | .782 | .534 | 8.15 | .0847 | .0781 | .0729 | .0687 | .0912 | .0846 | .0794 | .0753 |
| .360 | 1.44 | .897 | .608 | 9.09 | .0736 | .0664 | .0607 | .0562 | .0808 | .0737 | .0680 | .0635 |
| .400 | .50 | .973 | .646 | 9.83 | .0659 | .0592 | .0521 | .0473 | .0736 | .0669 | .0600 | .0552 |
| .440 | -.40 | .991 | .688 | 9.92 | .0634 | .0558 | .0498 | .0449 | .0714 | .0633 | .0577 | .0529 |
| .480 | -1.10 | .991 | .747 | 9.87 | .0636 | .0561 | .0501 | .0453 | .0715 | .0640 | .0580 | .0532 |
| .520 | -1.77 | .989 | .826 | 9.88 | .0649 | .0573 | .0514 | .0467 | .0727 | .0652 | .0593 | .0546 |

RESISTANCE DATA SERIES 65-A MODEL 5240

LP/RPX = 9.34 DEADRISE ANGLE = 27.7 DEG FNP = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.1 98.6 212.5 21.2 45.1 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 3.50 | .810 | .623 | 7.34 | .1196 | .1106 | .1035 | .0978 | .1247 | .1197 | .1126 | .1069 |
| .400 | 2.00 | .947 | .705 | 7.92 | .1128 | .1034 | .0959 | .0899 | .1227 | .1133 | .1058 | .0998 |
| .440 | .90 | .995 | .777 | 8.14 | .1056 | .0961 | .0885 | .0824 | .1158 | .1062 | .0987 | .0926 |
| .480 | -0.21 | 1.000 | .860 | 8.22 | .1029 | .0934 | .0859 | .0798 | .1132 | .1037 | .0961 | .0900 |
| .520 | -1.22 | 1.000 | .936 | 8.31 | .1075 | .0980 | .0904 | .0843 | .1179 | .1084 | .1008 | .0947 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 4.43 | .681 | .524 | 6.85 | .1236 | .1150 | .1082 | .1028 | .1321 | .1235 | .1168 | .1113 |
| .360 | 2.62 | .834 | .602 | 7.77 | .1104 | .1011 | .0937 | .0877 | .1201 | .1107 | .1033 | .0974 |
| .400 | 1.49 | .936 | .684 | 8.36 | .1034 | .0936 | .0857 | .0794 | .1139 | .1048 | .0962 | .0909 |
| .440 | .31 | .986 | .765 | 8.77 | .0972 | .0870 | .0790 | .0725 | .1082 | .0980 | .0899 | .0834 |
| .480 | -0.64 | .995 | .830 | 8.89 | .0972 | .0870 | .0789 | .0723 | .1083 | .0981 | .0900 | .0834 |
| .520 | -1.49 | .993 | .897 | 8.96 | .1027 | .0925 | .0844 | .0778 | .1139 | .1037 | .0955 | .0890 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 3.50 | .715 | .537 | 7.25 | .1132 | .1042 | .0972 | .0915 | .1222 | .1133 | .1062 | .1005 |
| .360 | 2.10 | .844 | .606 | 8.17 | .1050 | .0952 | .0874 | .0812 | .1152 | .1054 | .0977 | .0914 |
| .400 | .90 | .944 | .673 | 8.07 | .0977 | .0867 | .0783 | .0715 | .1086 | .0980 | .0896 | .0834 |
| .440 | .05 | .988 | .761 | 9.62 | .0947 | .0830 | .0742 | .0672 | .1061 | .0957 | .0863 | .0792 |
| .480 | -0.76 | .993 | .842 | 9.84 | .0953 | .0841 | .0752 | .0681 | .1076 | .0964 | .0875 | .0804 |
| .520 | -1.51 | .991 | .916 | 9.91 | .0991 | .0879 | .0790 | .0719 | .1114 | .1003 | .0914 | .0842 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.6 116.0 249.9 25.0 53.6 116.3 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .320 | 2.85 | .740 | .582 | 7.76 | .1093 | .0999 | .0924 | .0864 | .1190 | .1096 | .1021 | .0961 |
| .360 | 1.64 | .851 | .666 | 8.80 | .1000 | .0900 | .0818 | .0751 | .1114 | .1010 | .0928 | .0861 |
| .400 | .67 | .954 | .758 | 9.81 | .0954 | .0841 | .0751 | .0679 | .1077 | .0964 | .0874 | .0801 |
| .440 | -0.14 | .986 | .840 | 10.54 | .0953 | .0836 | .0742 | .0667 | .1082 | .0965 | .0871 | .0796 |
| .480 | -0.85 | .990 | .907 | 10.54 | .0970 | .0852 | .0757 | .0681 | .1102 | .0983 | .0889 | .0813 |
| .520 | -1.52 | .989 | .907 | 10.60 | .0990 | .0871 | .0777 | .0701 | .1122 | .1004 | .0910 | .0834 |

RESISTANCE DATA SERIES 65-A MODEL 5241

LP/ROY = 9.34 DEADRISE ANGLE = 27.7 DEG FNO = 3.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 21.2 45.6 91.6 212.5 21.2 45.6 91.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 4.22 | .632 | .495 | 5.87 | .1249 | .1135 | .1052 | .0986 | .1346 | .1241 | .1158 | .1092 | |
| .360 | 2.90 | .794 | .593 | 6.81 | .1178 | .1061 | .0969 | .0895 | .1300 | .1184 | .1092 | .1017 | |
| .400 | .14 | .864 | .669 | 6.96 | .1127 | .1010 | .0918 | .0844 | .1252 | .1136 | .1044 | .0969 | |
| .440 | -1.18 | .858 | .746 | 7.06 | .1233 | .1117 | .1025 | .0950 | .1360 | .1244 | .1152 | .1077 | |
| .480 | -2.50 | .870 | .867 | 7.35 | .1414 | .1294 | .1199 | .1122 | .1546 | .1426 | .1331 | .1254 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 275.0 22.5 48.5 104.4 275.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|--------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .360 | 3.12 | .720 | .535 | 6.97 | .1419 | .1290 | .1194 | .1114 | .1535 | .1415 | .1320 | .1243 | |
| .400 | 2.00 | .874 | .636 | 8.13 | .1399 | .1263 | .1156 | .1070 | .1544 | .1400 | .1302 | .1216 | |
| .440 | .50 | .980 | .808 | 8.55 | .1324 | .1186 | .1075 | .0986 | .1478 | .1339 | .1229 | .1140 | |
| .480 | -0.62 | .995 | .821 | 8.84 | .1369 | .1228 | .1115 | .1024 | .1529 | .1387 | .1275 | .1184 | |
| .520 | -1.61 | 0.88 | .931 | 9.04 | .1499 | 0.1347 | .1233 | .1142 | .1652 | .1510 | .1396 | .1304 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 5.00 | .610 | .53 | 6.25 | .1515 | .1406 | .1319 | .1249 | .1629 | .1519 | .1432 | .1362 | |
| .360 | 2.69 | .772 | .64 | 7.78 | .1369 | .1237 | .1133 | .1050 | .1508 | .1377 | .1273 | .1189 | |
| .400 | 1.26 | .911 | .618 | 8.74 | .1309 | .1165 | .1052 | .0960 | .1465 | .1322 | .1209 | .1117 | |
| .440 | .12 | .980 | .706 | 9.30 | .1277 | .1128 | .1009 | .0913 | .1444 | .1295 | .1176 | .1080 | |
| .480 | -0.77 | .989 | .825 | 9.68 | .1323 | .1171 | .1049 | .0950 | .1497 | .1345 | .1223 | .1124 | |
| .520 | -1.67 | .937 | .928 | 9.88 | .1405 | .1251 | .1128 | .1029 | .1583 | .1429 | .1306 | .1206 | |

LP/V(1/3) = 10.0 LP (FT) = 25.9 53.6 116.0 249.0 25.9 53.6 116.0 249.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|--------|--------------------------------|--------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .320 | 1.77 | .646 | .468 | 6.99 | .1428 | .1306 | .1210 | .1133 | .1552 | .1431 | .1326 | .1259 | |
| .360 | 2.00 | .807 | .546 | 8.41 | .1352 | .1213 | .1102 | .1012 | .1503 | .1364 | .1253 | .1164 | |
| .400 | .80 | .932 | .599 | 9.36 | .1270 | .1114 | .0998 | .0901 | .1439 | .1287 | .1166 | .1069 | |
| .440 | -0.12 | .978 | .712 | 10.03 | .1291 | .1132 | .1005 | 0.0903 | .1472 | .1313 | .1186 | .1084 | |
| .480 | -0.82 | .935 | .823 | 10.44 | .1351 | .1188 | .1054 | .0953 | .1539 | .1375 | .1246 | .1140 | |
| .520 | -1.49 | .937 | .900 | 10.66 | .1414 | .1240 | .1117 | .1010 | .1606 | 0.1441 | .1309 | .1202 | |

RESISTANCE DATA SERIES 65-A MODFL 5248

LP/BPX = 9.34

DEADRISE ANGLE = 27.7 DEG

FND = 3.50

 WFLIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 5.32 | .661 | .495 | 5.60 | .1916 | .1788 | .1686 | .1605 | .2053 | .1925 | .1823 | .1742 |
| .400 | 3.99 | .858 | .520 | 6.70 | .1901 | .1750 | .1631 | .1534 | .2065 | .1914 | .1795 | .1698 |
| .440 | 2.67 | 1.000 | .614 | 8.48 | .1970 | .1786 | .1639 | .1520 | .2174 | .1984 | .1847 | .1728 |
| .480 | 1.22 | 1.000 | .716 | 9.81 | .1955 | .1748 | .1542 | .1448 | .2197 | .1989 | .1824 | .1690 |
| .520 | -.13 | 1.000 | .826 | 10.39 | .1976 | .1796 | .1625 | .1486 | .2264 | .2059 | .1879 | .1741 |

 LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 114.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .360 | 4.24 | .659 | .468 | 6.20 | .1833 | .1692 | .1590 | .1490 | .1984 | .1844 | .1732 | .1642 |
| .400 | 2.88 | .779 | .540 | 8.02 | .1920 | .1743 | .1603 | .1489 | .2115 | .1940 | .1799 | .1686 |
| .440 | 1.59 | .929 | .618 | 9.57 | .1960 | .1756 | .1594 | .1462 | .2194 | .1991 | .1828 | .1697 |
| .480 | .31 | 1.000 | .709 | 10.56 | .1900 | .1691 | .1506 | .1364 | .2159 | .1940 | .1765 | .1623 |
| .520 | -.55 | 1.000 | .827 | 11.02 | .2029 | .1804 | .1624 | .1478 | .2299 | .2074 | .1894 | .1748 |

RESISTANCE DATA SERIES 65-B MODFL 5237

LP/APX = 2.35 DEADRISE ANGLE = 1b.3 DEG FNV = 1.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 110.0 10.0 21.5 46.4 100.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 6.00 | .970 | .819 | 5.89 | .1135 | .1119 | .1107 | .1097 | .1147 | .1131 | .1119 | .1109 |
| .380 | 3.00 | .992 | .917 | 5.99 | .0947 | .0931 | .0920 | .0909 | .0959 | .0943 | .0931 | .0921 |
| .420 | .66 | .995 | .343 | 6.36 | .0902 | .0884 | .0870 | .0859 | .0915 | .0897 | .0883 | .0872 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 92.2 112.5 11.2 24.2 52.2 112.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.11 | .910 | .588 | 6.43 | .1259 | .1241 | .1227 | .1217 | .1271 | .1254 | .1240 | .1230 |
| .400 | 4.50 | .972 | .696 | 6.9 | .1089 | .1091 | .1097 | .1085 | .1023 | .1005 | .0990 | .0979 |
| .380 | 2.56 | .991 | .615 | 6.87 | .0899 | .0881 | .0866 | .0855 | .0913 | .0894 | .0880 | .0869 |
| .420 | -0.04 | .989 | .381 | 6.06 | .0712 | .0696 | .0682 | .0672 | .0725 | .0708 | .0695 | .0684 |
| .460 | 1.65 | .983 | .503 | 7.27 | .0886 | .0876 | .0871 | .0859 | .0821 | .0801 | .0785 | .0773 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 54.0 125.0 12.5 26.9 58.0 125.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.09 | .912 | .520 | 7.65 | .1160 | .1139 | .1124 | .1111 | .1175 | .1155 | .1139 | .1126 |
| .340 | 3.72 | .971 | .412 | 7.69 | .0945 | .0924 | .0908 | .0895 | .0961 | .0940 | .0924 | .0911 |
| .380 | 1.89 | .979 | .335 | 7.45 | .0755 | .0735 | .0720 | .0707 | .0771 | .0750 | .0734 | .0722 |
| .420 | -0.06 | .981 | .321 | 7.13 | .0646 | .0626 | .0611 | .0599 | .0660 | .0640 | .0625 | .0613 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.6 137.5 13.7 29.6 63.8 137.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .918 | .227 | 8.27 | .0969 | .0946 | .0928 | .0914 | .0985 | .0963 | .0945 | .0931 |
| .340 | 3.00 | .970 | .155 | 8.36 | .0759 | .0735 | .0717 | .0703 | .0775 | .0752 | .0734 | .0720 |
| .380 | 1.50 | .978 | .084 | 7.42 | .0654 | .0633 | .0617 | .0605 | .0669 | .0644 | .0632 | .0619 |
| .420 | -0.28 | .982 | .086 | 7.91 | .0499 | .0476 | .0459 | .0446 | .0515 | .0492 | .0475 | .0462 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.9 32.3 69.6 150.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.72 | .910 | .037 | 8.87 | .0785 | .0760 | .0740 | .0725 | .0802 | .0777 | .0758 | .0743 |
| .340 | 2.37 | .960 | 0.000 | 8.55 | .0635 | .0612 | .0594 | .0579 | .0654 | .0629 | .0611 | .0596 |
| .380 | .94 | .975 | 0.000 | 7.46 | .0509 | .0488 | .0471 | .0458 | .0524 | .0502 | .0486 | .0473 |

LP/V(1/3) = 6.5 LP (FT) = 1b.2 35.0 75.4 162.5 16.2 34.0 75.4 162.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.12 | .900 | 0.000 | 9.51 | .0665 | .0630 | .0617 | .0601 | .0684 | .0657 | .0636 | .0620 |
| .340 | 1.87 | .967 | 0.000 | 8.61 | .0525 | .0502 | .0483 | .0469 | .0544 | .0519 | .0501 | .0486 |
| .380 | .65 | .973 | 0.000 | 7.75 | .0390 | .0368 | .0351 | .0338 | .0405 | .0384 | .0367 | .0353 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 975.0 17.5 37.7 81.2 175.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.00 | .940 | 0.000 | 9.63 | .0565 | .0539 | .0518 | .0502 | .0585 | .0558 | .0537 | .0521 |
| .340 | 1.50 | .955 | 0.000 | 8.96 | .0436 | .0412 | .0393 | .0378 | .0454 | .0430 | .0411 | .0395 |
| .380 | .44 | .972 | 0.000 | 8.31 | .0331 | .0308 | .0290 | .0276 | .0347 | .0324 | .0307 | .0293 |

LP/V(1/3) = 7.5 LP (FT) = 1b.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.20 | .942 | .007 | 9.94 | .0481 | .0455 | .0434 | .0418 | .0501 | .0475 | .0454 | .0437 |
| .340 | 1.27 | .955 | .006 | 9.84 | .0391 | .0364 | .0344 | .0328 | .0410 | .0384 | .0363 | .0347 |
| .380 | .40 | .972 | .003 | 9.09 | .0338 | .0314 | .0295 | .0280 | .0356 | .0332 | .0313 | .0298 |

RESISTANCE DATA SERIES 65-9 MODEL 5237

LP/DPX * 2.15 DEADRISE ANGL. 15.5 DEG FNV 1.25

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | b.39 | .966 | .783 | 5.63 | .1791 | .1678 | .1660 | .1647 | .1718 | .1696 | .1678 | .1664 | |
| .420 | 4.85 | .983 | 1.000 | 6.29 | .1463 | .1539 | .1520 | .1505 | .1583 | .1559 | .1540 | .1525 | |
| .380 | 1.50 | .993 | .379 | 6.94 | .1920 | .1491 | .1468 | .1450 | .1542 | .1513 | .1490 | .1472 | |
| .460 | -.22 | 1.000 | .396 | 6.77 | .1500 | .1472 | .1450 | .1432 | .1521 | .1493 | .1471 | .1454 | |

LP/W(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.85 | .821 | .545 | 5.97 | .1674 | .1649 | .1630 | .1615 | .1693 | .1668 | .1649 | .1634 | |
| .340 | 6.75 | .919 | .624 | 6.45 | .1537 | .1511 | .1491 | .1475 | .1555 | .1531 | .1511 | .1495 | |
| .380 | 4.50 | .970 | .767 | 7.12 | .1339 | .1311 | .1290 | .1272 | .1361 | .1334 | .1312 | .1295 | |
| .420 | 2.72 | .981 | .688 | 7.04 | .1231 | .1212 | .1190 | .1173 | .1261 | .1234 | .1212 | .1195 | |
| .460 | .72 | .987 | .204 | 7.38 | .1174 | .1143 | .1119 | .1099 | .1198 | .1166 | .1142 | .1122 | |

LP/W(1/3) = 5.0 LP (FT) = 12.5 26.9 51.0 125.0 12.5 26.9 50.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.50 | .775 | .467 | 6.73 | .1646 | .1619 | .1597 | .1580 | .1667 | .1640 | .1618 | .1601 | |
| .340 | 5.25 | .934 | .576 | 7.88 | .1359 | .1328 | .1304 | .1284 | .1383 | .1352 | .1328 | .1309 | |
| .380 | 3.51 | .974 | .608 | 6.03 | .1155 | .1124 | .1099 | .1080 | .1180 | .1149 | .1124 | .1105 | |
| .420 | 1.91 | .981 | .373 | 7.07 | .1026 | .0994 | .0969 | .0949 | .1051 | .1019 | .0994 | .0974 | |
| .460 | 0.00 | .981 | .424 | 7.17 | .0988 | .0959 | .0936 | .0919 | .1010 | .0981 | .0959 | .0941 | |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.23 | .809 | .479 | 1.32 | .1452 | .1418 | .1393 | .1372 | .1478 | .1444 | .1419 | .1398 | |
| .340 | 4.16 | .948 | .320 | 4.65 | .1164 | .1133 | .1106 | .1085 | .1195 | .1160 | .1133 | .1112 | |
| .380 | 2.77 | .975 | .205 | 8.35 | .0962 | .0927 | .0901 | .0880 | .0988 | .0954 | .0927 | .0906 | |
| .420 | 1.73 | .984 | .255 | 7.89 | .0879 | .0847 | .0822 | .0802 | .0903 | .0871 | .0847 | .0827 | |
| .460 | -.31 | .967 | .409 | 7.02 | .0810 | .0779 | .0754 | .0735 | .0834 | .0803 | .0779 | .0759 | |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.00 | .856 | .238 | 9.00 | .1207 | .1170 | .1142 | .1119 | .1235 | .1198 | .1170 | .1148 | |
| .340 | 1.43 | .967 | 0.000 | 6.63 | .0973 | .0936 | .0908 | .0886 | .1000 | .0963 | .0935 | .0913 | |
| .380 | 2.00 | .974 | .045 | 8.35 | .0826 | .0791 | .0765 | .0743 | .0852 | .0817 | .0791 | .0769 | |
| .420 | .68 | .974 | .148 | 8.14 | .0725 | .0692 | .0666 | .0646 | .0750 | .0717 | .0692 | .0672 | |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.9 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | b.13 | .871 | 0.000 | A.81 | .1070 | .1082 | .1054 | .1031 | .1047 | .1010 | .0981 | .0958 | |
| .340 | 2.88 | .948 | 0.000 | 1.77 | .0832 | .0795 | .0766 | .0744 | .0859 | .0822 | .0794 | .0771 | |
| .380 | 1.50 | .972 | 0.000 | 8.74 | .0646 | .0650 | .0622 | .0600 | .0713 | .0677 | .0649 | .0627 | |
| .420 | .31 | .972 | 0.000 | 6.47 | .0573 | .0544 | .0511 | .0489 | .0599 | .0564 | .0537 | .0516 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.60 | .875 | 0.000 | 5.95 | .0904 | .0867 | .0837 | .0814 | .0932 | .0898 | .0865 | .0842 | |
| .340 | 2.45 | .950 | 0.000 | 9.28 | .0714 | .0680 | .0650 | .0627 | .0747 | .0719 | .0690 | .0666 | |
| .380 | 1.29 | .959 | 0.000 | 9.40 | .0581 | .0542 | .0513 | .0489 | .0610 | .0572 | .0542 | .0518 | |
| .420 | 0.00 | .974 | 0.001 | 1.60 | .0458 | .0422 | .0395 | .0374 | .0485 | .0449 | .0422 | .0400 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.14 | .894 | .007 | 9.49 | .0781 | .0743 | .0713 | .0690 | .0811 | .0773 | .0743 | .0719 | |
| .340 | 2.05 | .952 | .008 | 10.03 | .0597 | .0557 | .0526 | .0501 | .0628 | .0585 | .0557 | .0533 | |
| .380 | 1.03 | .967 | .007 | 10.00 | .0485 | .0445 | .0414 | .0390 | .0516 | .0476 | .0445 | .0421 | |
| .420 | -.03 | .975 | .010 | 8.90 | .0418 | .0382 | .0355 | .0333 | .0444 | .0410 | .0383 | .0361 | |

RESISTANCE DATA SERIES 65-9 MODEL 5237

LP/BPX . 2.35 DEADWISE ANGLE . 16.3 DEG FNO = 2.50

WEIGHT = LWHT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 (P (FT) = 10.0 21.5 46.4 100.0 19.0 71.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.47 | .910 | .574 | 5.46 | .1006 | .1875 | .1051 | .1032 | .1931 | .1900 | .1876 | .1657 |
| .380 | 7.23 | .929 | .656 | 5.47 | .1085 | .1854 | .1030 | .1011 | .1901 | .1879 | .1855 | .1836 |
| .420 | 1.50 | .977 | 1.000 | 6.53 | .1704 | .1869 | .1641 | .1620 | .1733 | .1694 | .1671 | .1643 |
| .460 | 1.50 | .990 | .856 | 6.74 | .1681 | .1844 | .1615 | .1592 | .1711 | .1674 | .1645 | .1623 |

LP/V(2/3) . 4.5 LP (FT) = 11.7 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 1.50 | .813 | .520 | 5.63 | .1791 | .1757 | .1731 | .1711 | .1817 | .1784 | .1757 | .1737 |
| .380 | 5.61 | .954 | .667 | 6.79 | .1565 | .1528 | .1499 | .1476 | .1596 | .1559 | .1526 | .1506 |
| .420 | 3.51 | .975 | .787 | 7.04 | .1434 | .1400 | .1371 | .1347 | .1470 | .1432 | .1408 | .1379 |
| .460 | 1.50 | .994 | .619 | 7.59 | .1426 | .1384 | .1351 | .1326 | .1460 | .1414 | .1386 | .1360 |

LP/V(1/3) 5 5.2 LP (FT) = 12.5 26.9 55.0 125.0 12.5 26.9 55.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 6.18 | .840 | .501 | 7.70 | .1575 | .1534 | .1503 | .1474 | .1567 | .1567 | .1535 | .1510 |
| .380 | 4.22 | .957 | .674 | 8.11 | .1333 | .1289 | .1255 | .1224 | .1369 | .1326 | .1292 | .1265 |
| .420 | 2.79 | .975 | .762 | 8.36 | .1223 | .1179 | .1144 | .1117 | .1261 | .1217 | .1182 | .1155 |
| .460 | 1.27 | .981 | .495 | 8.63 | .1234 | .1187 | .1150 | .1121 | .1273 | .1226 | .1189 | .1160 |

LP/V(1/3) = 5.5 LP (FT) = 13.1 29.6 61.6 137.5 13.7 29.5 63.4 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.84 | .700 | .359 | 7.16 | .1586 | .1544 | .1512 | .1487 | .1618 | .1576 | .1544 | .1519 |
| .340 | 4.84 | .842 | .534 | 8.94 | .1439 | .1391 | .1353 | .1321 | .1479 | .1431 | .1393 | .1343 |
| .380 | 7.42 | .961 | .377 | 9.13 | .1163 | .1113 | .1074 | .1043 | .1204 | .1154 | .1116 | .1044 |
| .420 | 2.17 | .975 | .492 | 9.00 | .1063 | .1014 | .0976 | .0946 | .1104 | .1055 | .1016 | .0966 |
| .460 | .77 | .981 | .542 | 11.70 | .1141 | .1094 | .1056 | .1029 | .1040 | .1034 | .1017 | .0968 |

LP/V(1/3) = 6.0 LP (FT) = 14.0 12.3 69.6 150.0 15.0 32.3 59.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.61 | .749 | .418 | 9.00 | .1459 | .1400 | .1362 | .1331 | .1491 | .1441 | .1402 | .1271 |
| .340 | 3.95 | .903 | .229 | 9.73 | .1204 | .1154 | .1107 | .1074 | .1244 | .1193 | .1151 | .1117 |
| .380 | 2.71 | .964 | .044 | 9.11 | .1037 | .0984 | .0943 | .0911 | .1074 | .1025 | .0984 | .0952 |
| .420 | 1.50 | .975 | .441 | 8.77 | .0924 | .0877 | .0841 | .0812 | .0964 | .0917 | .0880 | .0851 |
| .460 | .92 | .954 | .553 | 8.76 | .0882 | .0836 | .0800 | .0772 | .0921 | .0876 | .0840 | .0811 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 15.4 162.5 16.2 15.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.71 | .787 | .324 | 10.18 | .1254 | .1199 | .1156 | .1121 | .1301 | .1245 | .1201 | .1167 |
| .340 | 3.29 | .917 | 0.000 | 9.59 | .1064 | .1004 | .0964 | .0929 | .1107 | .1051 | .1007 | .0972 |
| .380 | 2.12 | .967 | .885 | 8.94 | .0907 | .0857 | .0814 | .0787 | .0947 | .0897 | .0856 | .0827 |
| .420 | 1.01 | .969 | .382 | 8.77 | .0801 | .0754 | .0718 | .0689 | .0840 | .0794 | .0751 | .0729 |
| .460 | 0.00 | .945 | .231 | 9.19 | .0749 | .0699 | .0650 | .0629 | .0740 | .0740 | .0701 | .0670 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.1 11.2 175.0 17.5 37.7 11.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.03 | .810 | .111 | 10.31 | .1140 | .1082 | .1036 | .1000 | .1187 | .1124 | .1083 | .1047 |
| .340 | 2.79 | .924 | 0.001 | 9.55 | .0924 | .0869 | .0826 | .0792 | .0967 | .0912 | .0869 | .0835 |
| .380 | 1.75 | .964 | .074 | 9.05 | .0799 | .0750 | .0711 | .0680 | .0840 | .0790 | .0752 | .0721 |
| .420 | .78 | .966 | .167 | 9.00 | .0707 | .0658 | .0620 | .0590 | .0747 | .0694 | .0661 | .0630 |
| .460 | -.25 | .946 | 0.000 | 9.73 | .0621 | .0566 | .0523 | .0489 | .0665 | .0609 | .0566 | .0532 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 167.5 18.7 41.4 87.0 167.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.55 | .871 | .071 | 10.42 | .1009 | .0951 | .0905 | .0869 | .1056 | .0998 | .0952 | .0916 |
| .340 | 2.44 | .932 | 0.000 | 9.83 | .0804 | .0753 | .0711 | .0677 | .0852 | .0798 | .0755 | .0721 |
| .380 | 1.50 | .963 | 0.000 | 9.34 | .0715 | .0665 | .0624 | .0592 | .0759 | .0707 | .0666 | .0634 |
| .420 | .60 | .966 | 0.000 | 9.38 | .0635 | .0583 | .0543 | .0511 | .0678 | .0626 | .0585 | .0553 |

LP/HPX = 2.35 DEARRISE ANGLE = 15.3 DEG FNV = 1.75

WEIGHT = LIFT (LP, SFANATER) = 100 1000 10000 100000 1000 10000 100000 1000000

LP/W(1/3) = 4.0 LP (FT) = 10.7 21.5 45.4 100.7 19.0 21.5 46.4 100.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.20 | .897 | .652 | 5.46 | .1929 | .1889 | .1956 | .1977 | .1962 | .1921 | .1889 | .1864 |
| .340 | 6.00 | .959 | .770 | 6.10 | .1850 | .1826 | .1771 | .1747 | .1837 | .1843 | .1800 | .1780 |
| .420 | 1.51 | .993 | 1.000 | 7.00 | .1917 | .1870 | .1831 | .1800 | .1962 | .1917 | .1874 | .1843 |

LP/W(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.94 | .710 | .467 | 4.99 | .1944 | .1895 | .1875 | .1851 | .1975 | .1936 | .1905 | .1882 |
| .340 | 6.12 | .872 | .530 | 5.55 | .1796 | .1657 | .1519 | .1500 | .1746 | .1697 | .1659 | .1629 |
| .420 | 4.03 | .984 | .710 | 6.87 | .1552 | .1403 | .1264 | .1247 | .1505 | .1455 | .1506 | .1475 |
| .460 | 1.59 | .983 | 1.000 | 7.99 | .1613 | .1559 | .1515 | .1482 | .1682 | .1607 | .1564 | .1530 |

LP/W(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.88 | .649 | .347 | 4.66 | .1885 | .1847 | .1828 | .1811 | .1913 | .1875 | .1841 | .1815 |
| .340 | 6.84 | .777 | .432 | 5.60 | .1795 | .1654 | .1515 | .1500 | .1745 | .1695 | .1656 | .1625 |
| .380 | 4.80 | .900 | .512 | 6.47 | .1698 | .1446 | .1402 | .1368 | .1544 | .1489 | .1447 | .1414 |
| .420 | 3.00 | .987 | .745 | 8.21 | .1358 | .1300 | .1255 | .1220 | .1408 | .1351 | .1306 | .1270 |
| .460 | 1.59 | .978 | 1.000 | 9.16 | .1460 | .1399 | .1351 | .1312 | .1516 | .1455 | .1407 | .1360 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.27 | .621 | .320 | 4.47 | .1710 | .1660 | .1621 | .1589 | .1750 | .1699 | .1660 | .1629 |
| .340 | 3.99 | .741 | .392 | 7.90 | .1495 | .1436 | .1391 | .1354 | .1546 | .1485 | .1439 | .1403 |
| .380 | 3.84 | .923 | .338 | 8.82 | .1341 | .1277 | .1226 | .1186 | .1395 | .1331 | .1280 | .1240 |
| .420 | 2.60 | .974 | .355 | 9.36 | .1275 | .1207 | .1154 | .1112 | .1332 | .1264 | .1211 | .1169 |
| .460 | 1.06 | .974 | .483 | 9.80 | .1305 | .1237 | .1184 | .1142 | .1364 | .1296 | .1247 | .1200 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.7 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 6.00 | .656 | .336 | 8.05 | .1477 | .1411 | .1364 | .1326 | .1521 | .1460 | .1413 | .1375 |
| .340 | 4.50 | .816 | .296 | 9.46 | .1380 | .1318 | .1263 | .1220 | .1445 | .1376 | .1321 | .1278 |
| .380 | 3.21 | .939 | 0.000 | 9.84 | .1266 | .1190 | .1131 | .1084 | .1327 | .1251 | .1191 | .1145 |
| .420 | 2.01 | .975 | .050 | 9.54 | .1179 | .1107 | .1051 | .1007 | .1237 | .1167 | .1110 | .1065 |
| .460 | 0.61 | .953 | .368 | 8.59 | .1107 | .1039 | .0985 | .0943 | .1165 | .1097 | .1044 | .1002 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 5.20 | .649 | .346 | 9.70 | .1382 | .1311 | .1255 | .1211 | .1442 | .1370 | .1314 | .1270 |
| .340 | 3.76 | .853 | .039 | 10.50 | .1296 | .1216 | .1153 | .1104 | .1360 | .1280 | .1218 | .1168 |
| .380 | 2.57 | .952 | 0.000 | 9.90 | .1153 | .1076 | .1016 | .0968 | .1214 | .1135 | .1076 | .1029 |
| .420 | 1.50 | .970 | .135 | 9.26 | .1037 | .0970 | .0917 | .0876 | .1094 | .1027 | .0974 | .0932 |
| .460 | 0.31 | .952 | .407 | 9.64 | .0960 | .0891 | .0838 | .0795 | .1020 | .0952 | .0898 | .0855 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 4.57 | .716 | .325 | 11.30 | .1339 | .1258 | .1194 | .1143 | .1409 | .1327 | .1263 | .1212 |
| .340 | 3.12 | .889 | 0.000 | 10.70 | .1149 | .1067 | .1003 | .0952 | .1215 | .1132 | .1060 | .1017 |
| .380 | 2.05 | .955 | 0.000 | 9.50 | .1022 | .0952 | .0897 | .0853 | .1080 | .1010 | .0955 | .0912 |
| .420 | 1.10 | .967 | .183 | 9.05 | .0972 | .0882 | .0816 | .0776 | .0988 | .0924 | .0873 | .0834 |
| .460 | 0.14 | .946 | .264 | 10.14 | .0869 | .0798 | .0742 | .0698 | .0931 | .0860 | .0804 | .0760 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 39.0 87.5 187.5 18.7 39.0 87.5 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.84 | .766 | .197 | 11.90 | .1179 | .1093 | .1025 | .0972 | .1252 | .1166 | .1098 | .1045 |
| .340 | 2.60 | .908 | 0.000 | 10.30 | .0998 | .0922 | .0862 | .0815 | .1062 | .0985 | .0926 | .0878 |
| .380 | 1.73 | .955 | 0.000 | 9.14 | .0949 | .0882 | .0830 | .0780 | .1005 | .0934 | .0885 | .0844 |
| .420 | 0.95 | .967 | 0.000 | 8.80 | .0899 | .0834 | .0784 | .0744 | .0983 | .0919 | .0868 | .0828 |
| .460 | 0.00 | .945 | .004 | 10.66 | .0784 | .0706 | .0646 | .0597 | .0849 | .0771 | .0711 | .0663 |

RESISTANCE DATA SERIES 65-B MODEL 5237

LP/DPK = 2.35 DEADRISE ANGLE = 16.3 DFG FNV = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 101.0 10.0 21.5 46.4 100.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .420 | 7.21 | .861 | .861 | 5.24 | .2049 | .1987 | .1946 | .1913 | .2004 | .2031 | .1990 | .1957 | |
| .460 | 4.50 | .974 | .816 | 6.24 | .1951 | .1893 | .1847 | .1811 | .2001 | .1943 | .1898 | .1861 | |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .380 | 7.07 | .756 | .441 | 5.07 | .1901 | .1842 | .1797 | .1761 | .1949 | .1890 | .1844 | .1808 | |
| .420 | 5.45 | .899 | .648 | 6.82 | .1762 | .1698 | .1648 | .1608 | .1816 | .1752 | .1702 | .1662 | |
| .460 | 3.00 | .976 | .895 | 7.62 | .1741 | .1673 | .1620 | .1578 | .1802 | .1734 | .1681 | .1639 | |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 59.0 125.0 12.5 26.9 58.0 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.75 | .594 | .301 | 5.14 | .1849 | .1796 | .1755 | .1723 | .1801 | .1874 | .1737 | .1764 | |
| .340 | 7.00 | .654 | .371 | 5.48 | .1775 | .1716 | .1670 | .1633 | .1823 | .1764 | .1718 | .1681 | |
| .380 | 5.54 | .807 | .439 | 7.12 | .1672 | .1605 | .1552 | .1510 | .1729 | .1662 | .1609 | .1567 | |
| .420 | 4.01 | .937 | .521 | 7.85 | .1573 | .1501 | .1444 | .1400 | .1636 | .1564 | .1507 | .1462 | |
| .460 | 2.17 | .976 | .956 | 8.78 | .1587 | .1511 | .1452 | .1404 | .1651 | .1581 | .1522 | .1474 | |

LP/V(1/3) = 5.5 LP (FT) = 11.7 29.6 63.8 131.5 11.7 29.6 63.8 131.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.82 | .515 | .307 | 5.96 | .1713 | .1653 | .1606 | .1570 | .1760 | .1701 | .1654 | .1617 | |
| .340 | 5.75 | .702 | .344 | 7.19 | .1610 | .1541 | .1488 | .1443 | .1644 | .1594 | .1544 | .1501 | |
| .380 | 4.36 | .855 | .401 | 8.22 | .1523 | .1445 | .1384 | .1336 | .1549 | .1485 | .1430 | .1382 | |
| .420 | 5.15 | .957 | .357 | 9.17 | .1439 | .1354 | .1288 | .1235 | .1452 | .1388 | .1331 | .1280 | |
| .460 | 2.04 | .975 | .577 | 9.87 | .1506 | .1419 | .1350 | .1296 | .1504 | .1437 | .1379 | .1324 | |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.17 | .594 | .282 | 7.14 | .1585 | .1514 | .1460 | .1416 | .1642 | .1571 | .1517 | .1473 | |
| .340 | 4.41 | .717 | .157 | 8.24 | .1505 | .1424 | .1361 | .1310 | .1572 | .1490 | .1427 | .1377 | |
| .380 | 3.66 | .879 | .044 | 9.50 | .1440 | .1347 | .1275 | .1218 | .1516 | .1423 | .1351 | .1294 | |
| .420 | 2.84 | .954 | 0.000 | 10.16 | .1414 | .1316 | .1239 | .1178 | .1496 | .1397 | .1320 | .1259 | |
| .460 | 1.50 | .971 | .019 | 10.28 | .1439 | .1341 | .1264 | .1203 | .1522 | .1423 | .1346 | .1285 | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.43 | .615 | .174 | 8.25 | .1511 | .1430 | .1366 | .1315 | .1577 | .1496 | .1432 | .1381 | |
| .340 | 4.27 | .759 | .014 | 9.59 | .1462 | .1367 | .1292 | .1233 | .1539 | .1443 | .1369 | .1310 | |
| .380 | 3.14 | .905 | 0.000 | 10.71 | .1416 | .1309 | .1226 | .1159 | .1504 | .1395 | .1311 | .1245 | |
| .420 | 2.11 | .950 | 0.000 | 10.56 | .1354 | .1246 | .1161 | .1095 | .1434 | .1320 | .1246 | .1179 | |
| .460 | 0.69 | .955 | .206 | 11.09 | .1254 | .1153 | .1074 | .1011 | .1342 | .1242 | .1163 | .1100 | |

LP/V(1/3) = 7.0 LP (FT) = 11.5 31.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.40 | .624 | .143 | 9.86 | .1457 | .1361 | .1287 | .1224 | .1536 | .1440 | .1366 | .1307 | |
| .340 | 3.65 | .803 | 0.000 | 11.03 | .1396 | .1284 | .1204 | .1138 | .1464 | .1376 | .1292 | .1226 | |
| .380 | 2.55 | .927 | 0.000 | 11.05 | .1294 | .1185 | .1100 | .1033 | .1383 | .1273 | .1189 | .1121 | |
| .420 | 1.50 | .964 | 0.000 | 10.39 | .1145 | .1045 | .1007 | .0945 | .1264 | .1166 | .1090 | .1028 | |
| .460 | 0.69 | .950 | .502 | 11.53 | .1135 | .1037 | .0960 | .0898 | .1224 | .1129 | .1052 | .0990 | |

LP/V(1/3) = 7.5 LP (FT) = 14.7 40.4 87.0 187.5 14.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.30 | .624 | .214 | 11.43 | .1322 | .1245 | .1171 | .1135 | .1444 | .1377 | .1293 | .1226 | |
| .340 | 3.13 | .847 | .041 | 11.86 | .1263 | .1152 | .1066 | .0997 | .1354 | .1247 | .1160 | .1091 | |
| .380 | 2.01 | .941 | 0.000 | 10.91 | .1143 | .1044 | .0968 | .0905 | .1237 | .1135 | .1055 | .0992 | |
| .420 | 0.96 | .966 | .078 | 10.32 | .1087 | .0994 | .0921 | .0862 | .1169 | .1075 | .1003 | .0945 | |
| .460 | -0.2 | .941 | .444 | 11.38 | .1097 | .1000 | .0924 | .0864 | .1148 | .1051 | .0975 | .0915 | |

RESISTANCE DATA SERIES 65-8 MONFL 5237

LP/PPX = 2.35 DEADRTSE ANGL = 16.3 DEG FNV = 2.40

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.5 21.5 46.4 100.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .420 | 7.21 | .738 | .409 | 4.77 | .2146 | .2074 | .2018 | .1973 | .2206 | .2134 | .2077 | .2033 | |
| .460 | 6.18 | .866 | .531 | 5.73 | .2164 | .2081 | .2016 | .1965 | .2225 | .2152 | .2088 | .2036 | |
| .500 | 5.61 | .898 | .586 | 5.94 | .2186 | .2101 | .2035 | .1982 | .2260 | .2175 | .2109 | .2056 | |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.51 | .535 | .269 | 3.70 | .1841 | .1782 | .1737 | .1700 | .1888 | .1829 | .1783 | .1747 | |
| .340 | 6.90 | .614 | .308 | 4.60 | .1908 | .1837 | .1781 | .1737 | .1965 | .1894 | .1839 | .1795 | |
| .380 | 6.39 | .686 | .346 | 5.23 | .1924 | .1849 | .1788 | .1739 | .1993 | .1915 | .1853 | .1806 | |
| .420 | 5.85 | .764 | .390 | 5.79 | .1931 | .1845 | .1779 | .1726 | .2003 | .1918 | .1851 | .1798 | |
| .460 | 5.14 | .857 | .465 | 6.40 | .1934 | .1842 | .1771 | .1714 | .2014 | .1922 | .1851 | .1794 | |
| .500 | 4.40 | .919 | .533 | 6.81 | .1954 | .1859 | .1784 | .1725 | .2039 | .1944 | .1869 | .1810 | |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.67 | .512 | .234 | 4.34 | .1754 | .1685 | .1631 | .1588 | .1809 | .1749 | .1686 | .1643 | |
| .340 | 6.05 | .620 | .289 | 5.21 | .1736 | .1657 | .1595 | .1546 | .1801 | .1722 | .1660 | .1611 | |
| .380 | 5.28 | .723 | .332 | 6.07 | .1725 | .1637 | .1568 | .1513 | .1801 | .1712 | .1644 | .1589 | |
| .420 | 4.50 | .830 | .379 | 6.86 | .1751 | .1654 | .1577 | .1516 | .1837 | .1739 | .1663 | .1602 | |
| .460 | 4.18 | .866 | .400 | 7.28 | .1789 | .1686 | .1606 | .1542 | .1879 | .1777 | .1697 | .1633 | |
| .500 | 3.28 | .947 | .497 | 8.41 | .1850 | .1835 | .1744 | .1672 | .2055 | .1940 | .1849 | .1777 | |

LP/V(1/3) = 5.5 LP (FT) = 17.7 29.6 63.8 137.5 17.7 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.80 | .562 | .237 | 5.40 | .1671 | .1588 | .1524 | .1473 | .1730 | .1656 | .1591 | .1541 | |
| .340 | 5.05 | .662 | .275 | 6.41 | .1670 | .1575 | .1501 | .1443 | .1750 | .1655 | .1582 | .1523 | |
| .380 | 4.37 | .759 | .288 | 1.31 | .1693 | .1583 | .1501 | .1436 | .1779 | .1674 | .1592 | .1527 | |
| .420 | 3.82 | .844 | .274 | 8.04 | .1715 | .1601 | .1512 | .1441 | .1816 | .1702 | .1613 | .1542 | |
| .460 | 3.16 | .930 | .300 | 8.89 | .1779 | .1656 | .1560 | .1482 | .1891 | .1767 | .1671 | .1593 | |
| .500 | 3.00 | .948 | .335 | 9.12 | .1804 | .1679 | .1580 | .1502 | .1918 | .1793 | .1694 | .1616 | |

LP/V(1/3) = 6.0 LP (FT) = 15.1 12.3 69.6 150.0 15.0 32.7 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.19 | .572 | .208 | 6.27 | .1635 | .1541 | .1467 | .1409 | .1734 | .1619 | .1546 | .1487 | |
| .340 | 4.44 | .681 | .220 | 7.32 | .1618 | .1511 | .1428 | .1361 | .1709 | .1593 | .1519 | .1453 | |
| .380 | 3.64 | .791 | .207 | 8.32 | .1624 | .1505 | .1412 | .1338 | .1728 | .1609 | .1516 | .1442 | |
| .420 | 3.27 | .888 | .233 | 9.32 | .1662 | .1532 | .1430 | .1349 | .1778 | .1648 | .1547 | .1466 | |
| .460 | 2.80 | .898 | .446 | 10.23 | .1640 | .1641 | .1531 | .1444 | .1755 | .1722 | .1623 | .1575 | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.75 | .582 | .148 | 6.81 | .1611 | .1509 | .1429 | .1366 | .1696 | .1594 | .1514 | .1451 | |
| .340 | 4.05 | .706 | .140 | 7.97 | .1609 | .1493 | .1403 | .1331 | .1709 | .1593 | .1502 | .1430 | |
| .380 | 3.49 | .814 | .146 | 9.07 | .1639 | .1511 | .1411 | .1331 | .1753 | .1624 | .1524 | .1444 | |
| .420 | 3.00 | .897 | .185 | 10.07 | .1694 | .1555 | .1446 | .1359 | .1819 | .1681 | .1572 | .1485 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 31.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.40 | .599 | .089 | 7.19 | .1657 | .1549 | .1465 | .1399 | .1746 | .1639 | .1555 | .1488 | |
| .340 | 3.77 | .719 | .065 | 8.69 | .1689 | .1571 | .1479 | .1406 | .1790 | .1672 | .1588 | .1507 | |
| .380 | 3.24 | .817 | .111 | 9.00 | .1738 | .1610 | .1511 | .1431 | .1850 | .1723 | .1623 | .1544 | |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|----------|------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.15 | .611 | .051 | 7.68 | .1724 | .1610 | .1521 | .1458 | .1820 | .1706 | .1617 | .1546 | |
| .340 | 3.56 | .724 | .088 | 8.29 | .1774 | .1657 | .1563 | .1488 | .1881 | .1761 | .1667 | .1592 | |
| .380 | 3.00 | .824 | 0.000 | 9.11 | .1831 | .1702 | .1601 | .1520 | .1945 | .1816 | .1715 | .1634 | |

RESISTANCE DATA SERIES 65-B MODEL 5237

LP/APX = 2.35 NEARISE ANGLE = 16.3 DEG FNO = 7.00

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 106.0

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 5.46 | .488 | .213 | 3.09 | .1403 | .1331 | .1275 | .1231 | .1459 | .1387 | .1331 | .1287 |
| 340 | 5.76 | .567 | .315 | 3.85 | .1513 | .1424 | .1361 | .1309 | .1583 | .1497 | .1431 | .1378 |
| 380 | 6.04 | .642 | .400 | 4.40 | .1639 | .1545 | .1472 | .1413 | .1718 | .1624 | .1551 | .1492 |
| 420 | 6.31 | .698 | .479 | 4.84 | .1770 | .1677 | .1605 | .1547 | .1849 | .1757 | .1685 | .1627 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 74.7 52.2 112.5 11.2 24.2 57.7 117.5

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 6.17 | .533 | .194 | 3.29 | .1733 | .1659 | .1602 | .1556 | .1793 | .1718 | .1661 | .1615 |
| 340 | 6.65 | .615 | .266 | 3.93 | .1756 | .1680 | .1613 | .1561 | .1835 | .1750 | .1694 | .1647 |
| 380 | 7.20 | .691 | .335 | 4.45 | .1827 | .1732 | .1658 | .1599 | .1909 | .1814 | .1740 | .1681 |
| 420 | 7.80 | .754 | .402 | 5.15 | .1918 | .1814 | .1732 | .1666 | .2011 | .1906 | .1824 | .1759 |
| 460 | 8.44 | .815 | .468 | 5.75 | .2030 | .1915 | .1826 | .1754 | .2133 | .2019 | .1929 | .1857 |
| 500 | 9.19 | .857 | .538 | 6.30 | .2142 | .2017 | .1919 | .1841 | .2257 | .2132 | .2034 | .1956 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 50.0 125.0 12.5 26.9 51.0 125.0

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 5.69 | .553 | .152 | 3.04 | .1817 | .1731 | .1665 | .1612 | .1886 | .1801 | .1733 | .1682 |
| 340 | 6.15 | .635 | .207 | 3.51 | .1845 | .1749 | .1674 | .1614 | .1926 | .1820 | .1755 | .1695 |
| 380 | 6.70 | .709 | .268 | 3.71 | .1899 | .1791 | .1707 | .1640 | .1992 | .1885 | .1801 | .1734 |
| 420 | 7.32 | .781 | .339 | 4.01 | .1989 | .1879 | .1784 | .1709 | .2067 | .1947 | .1852 | .1777 |
| 460 | 7.98 | .847 | .417 | 4.46 | .2027 | .1893 | .1788 | .1704 | .2150 | .2017 | .1911 | .1829 |
| 500 | 8.67 | .907 | .497 | 4.85 | .2121 | .1975 | .1859 | .1767 | .2260 | .2113 | .1998 | .1905 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 4.95 | .565 | .104 | 4.54 | .1785 | .1684 | .1606 | .1544 | .1868 | .1767 | .1688 | .1626 |
| 340 | 5.41 | .650 | .144 | 5.07 | .1805 | .1687 | .1595 | .1522 | .1905 | .1787 | .1695 | .1622 |
| 380 | 5.90 | .741 | .174 | 5.60 | .1849 | .1714 | .1608 | .1524 | .1917 | .1782 | .1677 | .1604 |
| 420 | 6.41 | .817 | .214 | 6.17 | .1918 | .1758 | .1650 | .1557 | .2053 | .1903 | .1786 | .1692 |
| 460 | 7.07 | .881 | .270 | 6.76 | .2012 | .1849 | .1721 | .1619 | .2163 | .2000 | .1872 | .1759 |
| 500 | 7.87 | .938 | .352 | 7.45 | .2043 | .1875 | .1744 | .1638 | .2198 | .2031 | .1899 | .1793 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 4.43 | .533 | .096 | 5.62 | .1735 | .1615 | .1521 | .1446 | .1837 | .1716 | .1622 | .1547 |
| 340 | 4.91 | .606 | .142 | 6.15 | .1771 | .1624 | .1516 | .1427 | .1894 | .1751 | .1639 | .1551 |
| 380 | 5.50 | .743 | .184 | 7.07 | .1836 | .1676 | .1551 | .1451 | .1978 | .1818 | .1693 | .1593 |
| 420 | 6.17 | .849 | .216 | 8.23 | .1917 | .1744 | .1607 | .1499 | .2074 | .1901 | .1764 | .1656 |
| 460 | 6.91 | .900 | .273 | 9.40 | .1993 | .1810 | .1666 | .1552 | .2162 | .1979 | .1835 | .1721 |
| 500 | 7.69 | .913 | .370 | 10.00 | .2064 | .1878 | .1728 | .1608 | .2248 | .2058 | .1908 | .1788 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 51.4 162.5 16.2 35.0 75.4 162.5

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 4.07 | .611 | .066 | 6.77 | .1795 | .1561 | .1449 | .1361 | .1827 | .1683 | .1571 | .1482 |
| 340 | 4.60 | .722 | .084 | 7.14 | .1771 | .1611 | .1480 | .1376 | .1924 | .1751 | .1636 | .1522 |
| 380 | 5.25 | .821 | .049 | 9.17 | .1862 | .1678 | .1533 | .1418 | .2011 | .1843 | .1698 | .1583 |
| 420 | 5.94 | .854 | .072 | 9.67 | .1943 | .1746 | .1592 | .1469 | .2127 | .1926 | .1771 | .1648 |
| 460 | 6.84 | .873 | .113 | 11.37 | .1983 | .1788 | .1629 | .1503 | .2176 | .1974 | .1816 | .1689 |
| 500 | 7.58 | .931 | .196 | 11.06 | .2082 | .1872 | .1706 | .1574 | .2281 | .2071 | .1905 | .1773 |

LP/V(1/3) = 7.1 LP (FT) = 11.5 37.7 41.2 115.0 17.5 37.7 41.2 175.0

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 3.82 | .641 | .040 | 8.49 | .1754 | .1578 | .1440 | .1330 | .1906 | .1730 | .1592 | .1483 |
| 340 | 4.41 | .744 | .028 | 10.10 | .1877 | .1673 | .1513 | .1386 | .2059 | .1855 | .1695 | .1568 |
| 380 | 5.12 | .812 | .024 | 11.78 | .1980 | .1758 | .1584 | .1446 | .2181 | .1959 | .1786 | .1647 |
| 420 | 5.94 | .845 | .036 | 11.72 | .2041 | .1811 | .1630 | .1486 | .2251 | .2022 | .1841 | .1697 |
| 460 | 6.80 | .856 | .055 | 12.10 | .2095 | .1860 | .1675 | .1528 | .2312 | .2077 | .1893 | .1745 |
| 500 | 7.63 | .906 | .113 | 12.90 | .2235 | .1990 | .1797 | .1643 | .2467 | .2222 | .2029 | .1875 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 67.0 187.5 18.7 40.4 47.0 117.5

| LCG | T/IM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----|--------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (T/FG) | LP | LP | V(2/3) | | | | | | | | |
| 300 | 3.57 | .677 | .019 | 11.08 | .1965 | .1740 | .1564 | .1424 | .2165 | .1940 | .1767 | .1623 |
| 340 | 4.24 | .759 | .006 | 11.73 | .2125 | .1877 | .1674 | .1515 | .2354 | .2101 | .1903 | .1744 |
| 380 | 5.04 | .811 | 0.000 | 13.67 | .2224 | .1956 | .1746 | .1578 | .2459 | .2202 | .1991 | .1823 |
| 420 | 5.84 | .871 | 0.000 | 13.71 | .2230 | .1961 | .1750 | .1581 | .2476 | .2208 | .1996 | .1828 |
| 460 | 7.01 | .841 | 0.000 | 13.91 | .2274 | .2000 | .1745 | .1614 | .2525 | .2257 | .2037 | .1865 |
| 500 | 7.77 | .906 | 0.000 | 14.70 | .2454 | .2169 | .1945 | .1766 | .2718 | .2433 | .2209 | .2030 |

RESISTANCE DATA SERIES 65-9 MODEL 5237

LP/BPX = 2.35

DEADRISE ANGLE = 15.3 DEG

FND = 3.50

 WFLIGHT = LIFT (LB. SEAWATER) = 1000 10000 100000 1000000 10000 100000 1000000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .300 | 3.76 | .612 | .069 | 4.51 | .1541 | .1440 | .1360 | .1781 | .1652 | .1550 | .1470 | |
| .340 | 3.39 | .696 | .104 | 5.32 | .1791 | .1643 | .1527 | .1921 | .1773 | .1657 | .1565 | |
| .380 | 3.14 | .748 | .142 | 6.02 | .1904 | .1743 | .1617 | .2049 | .1888 | .1762 | .1662 | |
| .420 | 2.96 | .779 | .175 | 6.54 | .1997 | .1828 | .1695 | .2152 | .1983 | .1850 | .1744 | |
| .460 | 2.43 | .801 | .205 | 6.68 | .2080 | .1903 | .1764 | .2243 | .2067 | .1928 | .1817 | |
| .500 | 2.69 | .822 | .242 | 7.05 | .2177 | .1993 | .1848 | .2350 | .2166 | .2021 | .1905 | |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .300 | 4.12 | .577 | 0.000 | 4.60 | .1993 | .1857 | .1750 | .2106 | .1969 | .1863 | .1778 | |
| .340 | 3.65 | .597 | 0.000 | 5.36 | .2261 | .2094 | .1957 | .2409 | .2239 | .2106 | .2000 | |
| .380 | 3.12 | .765 | 0.000 | 6.04 | .2374 | .2197 | .2048 | .2576 | .2394 | .2261 | .2097 | |
| .420 | 3.08 | .818 | 0.000 | 6.62 | .2437 | .2240 | .2084 | .2619 | .2422 | .2266 | .2142 | |
| .460 | 2.83 | .856 | .035 | 7.43 | .2504 | .2288 | .2117 | .2711 | .2494 | .2324 | .2187 | |
| .500 | 2.57 | .896 | .168 | 8.44 | | | | | | | | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.1 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .300 | 3.70 | .597 | 0.000 | 5.10 | .2118 | .1967 | .1849 | .2242 | .2092 | .1974 | .1880 | |
| .340 | 3.38 | .689 | 0.000 | 5.89 | .2259 | .2090 | .1958 | .2404 | .2234 | .2102 | .1997 | |
| .380 | 3.11 | .748 | 0.000 | 6.54 | .2369 | .2185 | .2041 | .2529 | .2345 | .2202 | .2087 | |
| .420 | 2.85 | .791 | 0.000 | 7.23 | .2372 | .2172 | .2016 | .2551 | .2352 | .2195 | .2071 | |
| .460 | 2.55 | .828 | .066 | 8.45 | .2317 | .2096 | .1922 | .2524 | .2303 | .2129 | .1991 | |
| .500 | 2.28 | .850 | .188 | 9.58 | .2345 | .2103 | .1912 | .2580 | .2338 | .2147 | .1994 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .300 | 3.60 | .603 | 0.000 | 5.75 | .2198 | .2034 | .1906 | .2339 | .2175 | .2046 | .1944 | |
| .340 | 3.24 | .682 | 0.000 | 6.65 | .2319 | .2134 | .1990 | .2401 | .2297 | .2152 | .2037 | |
| .380 | 3.02 | .729 | 0.000 | 7.27 | .2403 | .2205 | .2049 | .2581 | .2383 | .2227 | .2104 | |
| .420 | 2.77 | .790 | .075 | 8.38 | .2433 | .2211 | .2037 | .2638 | .2416 | .2242 | .2103 | |
| .460 | 2.43 | .827 | .067 | 9.58 | .2495 | .2249 | .2054 | .2730 | .2487 | .2289 | .2134 | |
| .500 | 2.17 | .865 | .174 | 10.74 | .2608 | .2338 | .2126 | .2871 | .2601 | .2388 | .2218 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .300 | 3.52 | .593 | .001 | 6.17 | .2283 | .2112 | .1978 | .2434 | .2263 | .2129 | .2022 | |
| .340 | 3.19 | .666 | .003 | 7.11 | .2400 | .2208 | .2057 | .2571 | .2382 | .2231 | .2111 | |
| .380 | 3.00 | .716 | .004 | 7.69 | .2479 | .2274 | .2113 | .2617 | .2462 | .2302 | .2173 | |
| .420 | 2.68 | .770 | .001 | 8.90 | .2658 | .2425 | .2242 | .2876 | .2643 | .2460 | .2313 | |
| .460 | 2.42 | .820 | .000 | 9.97 | .2833 | .2575 | .2373 | .3077 | .2820 | .2617 | .2455 | |
| .500 | 2.15 | .865 | .000 | 11.04 | .3022 | .2740 | .2518 | .3292 | .3010 | .2788 | .2610 | |

RESISTANCE DATA SERIES 65-B MODEL 5240

LP/BPX = 3.32 DEADRISE ANGLE = 16.3 DEG FNV = 1.00

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 5.0 LP (FT) = 12.5 26.9 50.0 125.0 12.5 26.9 53.0 125.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.14 | .999 | .726 | 6.55 | .0847 | .0030 | .0017 | .0006 | .0060 | .0043 | .0030 | .0019 |
| .340 | 3.23 | .982 | 1.000 | 7.00 | .0692 | .0075 | .0061 | .0050 | .0707 | .0685 | .0675 | .0664 |
| .380 | 1.17 | 1.000 | .951 | 6.70 | .0535 | .0510 | .0495 | .0494 | .0540 | .0531 | .0510 | .0500 |
| .420 | -.20 | 1.000 | 1.000 | 7.53 | .0492 | .0474 | .0460 | .0446 | .0507 | .0499 | .0475 | .0463 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 28.6 51.6 137.5 13.7 28.6 53.6 137.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.85 | .944 | .800 | 7.51 | .0939 | .0000 | .0905 | .0893 | .0954 | .0935 | .0920 | .0908 |
| .340 | 2.43 | .984 | .835 | 7.65 | .0596 | .0577 | .0562 | .0550 | .0611 | .0592 | .0577 | .0566 |
| .380 | 1.24 | .998 | .964 | 7.89 | .0551 | .0534 | .0518 | .0506 | .0569 | .0549 | .0534 | .0522 |
| .420 | -.19 | 1.000 | .933 | 7.47 | .0413 | .0393 | .0377 | .0365 | .0420 | .0400 | .0392 | .0380 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 60.6 150.0 15.0 32.3 60.6 150.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.81 | .951 | .463 | 1.10 | .0762 | .0741 | .0725 | .0712 | .0779 | .0758 | .0741 | .0720 |
| .340 | 2.16 | .977 | .490 | 0.89 | .0551 | .0530 | .0514 | .0502 | .0567 | .0547 | .0530 | .0510 |
| .380 | .82 | .989 | .544 | 0.28 | .0454 | .0429 | .0413 | .0400 | .0467 | .0446 | .0429 | .0416 |
| .420 | -.29 | 1.000 | .532 | 0.87 | .0304 | .0366 | .0348 | .0334 | .0406 | .0383 | .0366 | .0352 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 65.5 162.9 16.2 35.6 69.4 162.4

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .963 | .310 | 9.01 | .0607 | .0584 | .0565 | .0551 | .0625 | .0602 | .0583 | .0569 |
| .340 | 1.74 | .977 | .261 | 0.82 | .0458 | .0435 | .0417 | .0403 | .0476 | .0453 | .0435 | .0421 |
| .380 | .60 | .984 | .246 | 0.80 | .0300 | .0347 | .0320 | .0314 | .0380 | .0364 | .0346 | .0332 |
| .420 | -.34 | .977 | .277 | 9.59 | .0349 | .0324 | .0305 | .0290 | .0368 | .0343 | .0324 | .0304 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 31.1 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.50 | .952 | .107 | 9.70 | .0495 | .0469 | .0449 | .0433 | .0514 | .0484 | .0469 | .0453 |
| .340 | 1.50 | .975 | .114 | 9.50 | .0394 | .0369 | .0350 | .0334 | .0413 | .0388 | .0369 | .0353 |
| .380 | .50 | .986 | .036 | 9.73 | .0334 | .0309 | .0290 | .0274 | .0353 | .0325 | .0300 | .0293 |
| .420 | -.43 | 1.000 | 1.000 | 9.72 | .0327 | .0300 | .0290 | .0264 | .0346 | .0320 | .0299 | .0283 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.09 | .959 | .087 | 10.30 | .0422 | .0396 | .0374 | .0357 | .0443 | .0414 | .0396 | .0378 |
| .340 | 1.21 | .977 | .011 | 9.95 | .0354 | .0327 | .0307 | .0291 | .0374 | .0347 | .0327 | .0310 |
| .380 | .42 | .987 | 0.100 | 9.72 | .0324 | .0298 | .0277 | .0261 | .0343 | .0317 | .0297 | .0280 |
| .420 | -.46 | 1.000 | 0.800 | 9.84 | .0329 | .0302 | .0280 | .0264 | .0348 | .0321 | .0300 | .0284 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.4 200.0 20.0 43.1 92.4 200.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.79 | .958 | .017 | 10.61 | .0377 | .0349 | .0328 | .0310 | .0399 | .0370 | .0349 | .0332 |
| .340 | 1.05 | .979 | 0.000 | 10.31 | .0335 | .0308 | .0287 | .0270 | .0356 | .0328 | .0307 | .0290 |
| .380 | .37 | .987 | 0.000 | 10.05 | .0321 | .0294 | .0273 | .0257 | .0341 | .0314 | .0293 | .0277 |
| .420 | -.45 | .989 | 0.000 | 9.93 | .0337 | .0309 | .0288 | .0272 | .0357 | .0329 | .0308 | .0292 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.57 | .961 | 0.000 | 10.93 | .0354 | .0325 | .0303 | .0286 | .0376 | .0347 | .0325 | .0308 |
| .340 | .94 | .982 | 0.000 | 10.71 | .0327 | .0299 | .0277 | .0260 | .0349 | .0321 | .0299 | .0282 |
| .380 | .34 | .987 | 0.000 | 10.47 | .0321 | .0294 | .0273 | .0256 | .0342 | .0315 | .0293 | .0277 |
| .420 | -.44 | .968 | 0.003 | 10.07 | .0342 | .0319 | .0294 | .0274 | .0362 | .0335 | .0315 | .0298 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.41 | .965 | .010 | 11.34 | .0344 | .0315 | .0292 | .0274 | .0367 | .0338 | .0315 | .0297 |
| .340 | .87 | .985 | .023 | 11.23 | .0324 | .0296 | .0273 | .0256 | .0347 | .0318 | .0296 | .0278 |
| .380 | .32 | .985 | .032 | 10.90 | .0319 | .0291 | .0270 | .0252 | .0341 | .0313 | .0291 | .0274 |
| .420 | -.44 | .947 | .030 | 10.09 | .0335 | .0309 | .0289 | .0273 | .0355 | .0329 | .0309 | .0293 |

WEIGHT LIFT (LB. SEAWATER) 1001 10000 100000 1000000 1001 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.50 | .825 | .610 | 5.76 | .1476 | .1453 | .1435 | .1421 | .1494 | .1471 | .1453 | .1439 | .1439 |
| .340 | 5.77 | .957 | .745 | 6.49 | .1190 | .1165 | .1146 | .1139 | .1210 | .1189 | .1166 | .1150 | .1150 |
| .380 | 3.36 | .982 | 1.000 | 6.85 | .0994 | .0973 | .0953 | .0937 | .1019 | .0994 | .0974 | .0958 | .0958 |
| .420 | 1.50 | 1.000 | 1.000 | 7.21 | .0885 | .0861 | .0840 | .0824 | .0911 | .0884 | .0864 | .0846 | .0846 |
| .460 | 0.00 | 1.000 | 1.000 | 7.57 | .0802 | .0785 | .0763 | .0748 | .0835 | .0808 | .0787 | .0769 | .0769 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.21 | .840 | .574 | 6.64 | .1305 | .1279 | .1258 | .1242 | .1326 | .1300 | .1279 | .1263 | .1263 |
| .340 | 4.73 | .965 | .687 | 7.58 | .1052 | .1023 | .1001 | .0983 | .1076 | .1047 | .1024 | .1007 | .1007 |
| .380 | 2.74 | .946 | .954 | 7.88 | .0834 | .0805 | .0783 | .0765 | .0859 | .0830 | .0807 | .0789 | .0789 |
| .420 | 1.04 | 1.010 | .965 | 8.17 | .0779 | .0750 | .0726 | .0704 | .0805 | .0775 | .0752 | .0733 | .0733 |
| .460 | 0.14 | 1.000 | .142 | 7.87 | .0723 | .0691 | .0667 | .0647 | .0744 | .0716 | .0691 | .0672 | .0672 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 158.0 15.0 32.3 69.6 158.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.66 | .873 | .521 | 7.94 | .1146 | .1115 | .1091 | .1072 | .1171 | .1147 | .1116 | .1097 | .1097 |
| .340 | 3.77 | .964 | .566 | 8.24 | .0902 | .0870 | .0846 | .0827 | .0924 | .0894 | .0872 | .0852 | .0852 |
| .380 | 1.88 | .980 | .794 | 8.69 | .0745 | .0713 | .0688 | .0668 | .0772 | .0740 | .0715 | .0695 | .0695 |
| .420 | 0.65 | .993 | .754 | 8.83 | .0667 | .0635 | .0609 | .0589 | .0695 | .0662 | .0637 | .0617 | .0617 |
| .460 | 0.32 | 1.000 | .241 | 8.44 | .0615 | .0581 | .0555 | .0535 | .0641 | .0608 | .0582 | .0561 | .0561 |

LP/V(1/3) = 6.5 LP (FT) = 16.7 35.0 75.4 162.5 16.7 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.23 | .899 | .474 | 6.67 | .0996 | .0963 | .0937 | .0916 | .1023 | .0990 | .0964 | .0943 | .0943 |
| .340 | 2.75 | .973 | .414 | 9.32 | .0799 | .0764 | .0736 | .0715 | .0824 | .0791 | .0766 | .0744 | .0744 |
| .380 | 1.50 | .979 | .397 | 9.26 | .0646 | .0611 | .0584 | .0562 | .0675 | .0640 | .0613 | .0591 | .0591 |
| .420 | 0.40 | .998 | .311 | 9.22 | .0553 | .0517 | .0488 | .0466 | .0582 | .0546 | .0519 | .0497 | .0497 |
| .460 | 0.49 | 1.000 | .184 | 9.44 | .0524 | .0487 | .0459 | .0436 | .0554 | .0517 | .0488 | .0465 | .0465 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.47 | .914 | .281 | 7.71 | .0851 | .0819 | .0785 | .0762 | .0882 | .0844 | .0815 | .0792 | .0792 |
| .340 | 2.10 | .973 | .212 | 10.03 | .0627 | .0599 | .0568 | .0546 | .0679 | .0640 | .0610 | .0586 | .0586 |
| .380 | 1.17 | .978 | .114 | 9.70 | .0551 | .0513 | .0483 | .0459 | .0581 | .0543 | .0513 | .0490 | .0490 |
| .420 | 0.24 | .988 | .120 | 9.50 | .0462 | .0424 | .0394 | .0371 | .0492 | .0453 | .0424 | .0400 | .0400 |

LP/V(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.84 | .937 | .167 | 10.65 | .0724 | .0686 | .0654 | .0629 | .0761 | .0724 | .0686 | .0662 | .0662 |
| .340 | 1.79 | .979 | .099 | 10.45 | .0591 | .0552 | .0520 | .0495 | .0622 | .0584 | .0553 | .0524 | .0524 |
| .380 | 0.98 | .979 | .022 | 10.07 | .0497 | .0457 | .0426 | .0402 | .0528 | .0489 | .0458 | .0433 | .0433 |
| .420 | 0.12 | .995 | 0.007 | 9.71 | .0402 | .0363 | .0334 | .0308 | .0433 | .0393 | .0361 | .0339 | .0339 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.34 | .939 | .077 | 10.90 | .0622 | .0580 | .0547 | .0521 | .0656 | .0614 | .0581 | .0555 | .0555 |
| .340 | 1.50 | .969 | .041 | 10.57 | .0529 | .0484 | .0456 | .0430 | .0563 | .0521 | .0489 | .0464 | .0464 |
| .380 | 0.85 | .979 | 0.009 | 10.23 | .0459 | .0419 | .0387 | .0363 | .0491 | .0450 | .0419 | .0395 | .0395 |
| .420 | 0.09 | .983 | 0.000 | 9.87 | .0356 | .0317 | .0286 | .0261 | .0387 | .0347 | .0317 | .0292 | .0292 |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.4 98.6 212.5 21.7 45.4 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.99 | .941 | .019 | 10.82 | .0557 | .0515 | .0482 | .0456 | .0591 | .0549 | .0516 | .0490 | .0490 |
| .340 | 1.13 | .979 | .011 | 10.54 | .0462 | .0421 | .0389 | .0363 | .0525 | .0484 | .0453 | .0427 | .0427 |
| .380 | 0.77 | .982 | 0.000 | 10.22 | .0435 | .0396 | .0364 | .0340 | .0468 | .0429 | .0397 | .0372 | .0372 |
| .420 | 0.04 | .979 | 0.070 | 10.21 | .0339 | .0299 | .0267 | .0243 | .0371 | .0330 | .0299 | .0275 | .0275 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.75 | .945 | 0.000 | 10.64 | .0519 | .0478 | .0446 | .0421 | .0552 | .0511 | .0479 | .0454 | .0454 |
| .340 | 1.21 | .972 | .004 | 10.49 | .0460 | .0420 | .0388 | .0363 | .0502 | .0462 | .0431 | .0406 | .0406 |
| .380 | 0.77 | .985 | .019 | 10.43 | .0427 | .0387 | .0355 | .0330 | .0465 | .0425 | .0394 | .0369 | .0369 |
| .420 | 0.00 | .974 | .071 | 10.64 | .0341 | .0291 | .0259 | .0234 | .0365 | .0324 | .0292 | .0268 | .0268 |

RESISTANCE DATA SERIAL# 65-B MODEL 5240

LP/ARY = 3.37 DEARISE ANGLE = 16.3 DEG FNO = 1.50

HEIGHT = LIFT (LA, SEANAFR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 4.0 LP (FT) = 12.5 26.9 54.0 125.0 12.5 26.9 54.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1340 | 6.00 | .988 | .671 | 6.19 | .1422 | .1388 | .1362 | .1341 | .1450 | .1416 | .1390 | .1369 |
| 1380 | 4.21 | .969 | .618 | 6.51 | .1234 | .1204 | .1177 | .1146 | .1247 | .1231 | .1206 | .1185 |
| 1420 | 2.48 | .951 | .572 | 6.84 | .1185 | .1169 | .1140 | .1119 | .1194 | .1191 | .1171 | .1149 |
| 1460 | .86 | 1.000 | .490 | 7.59 | .1079 | .1040 | .1010 | .9986 | .1113 | .1075 | .1044 | .1020 |
| 1500 | -.37 | .993 | 1.000 | 7.61 | .1151 | .1112 | .1082 | .1059 | .1105 | .1146 | .1116 | .1092 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 61.8 137.5 13.7 29.6 61.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 6.77 | .788 | .499 | 6.10 | .1445 | .1411 | .1384 | .1364 | .1477 | .1439 | .1412 | .1391 |
| 1340 | 4.75 | .824 | .615 | 7.14 | .1202 | .1164 | .1134 | .1111 | .1234 | .1196 | .1167 | .1143 |
| 1380 | 3.27 | .874 | .827 | 7.56 | .1064 | .1025 | .9955 | .9971 | .1098 | .1050 | .1029 | .1005 |
| 1420 | 1.81 | .943 | 1.000 | 7.83 | .0944 | .0904 | .0873 | .0849 | .0970 | .0929 | .0899 | .0864 |
| 1460 | .52 | 1.000 | .780 | 8.00 | .0831 | .0800 | .0767 | .0740 | .0867 | .0826 | .0793 | .0768 |
| 1500 | -.28 | 1.000 | .231 | 8.03 | .1004 | .0953 | .0920 | .0890 | .1044 | .0999 | .0954 | .0936 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 5.45 | .889 | .546 | 7.77 | .1227 | .1187 | .1155 | .1130 | .1260 | .1228 | .1198 | .1163 |
| 1340 | 3.91 | .910 | .604 | 8.16 | .1043 | .1010 | .0977 | .0950 | .1090 | .1047 | .1014 | .0987 |
| 1380 | 2.50 | .977 | .811 | 8.76 | .0913 | .0880 | .0845 | .0817 | .0954 | .0914 | .0874 | .0846 |
| 1420 | 1.37 | .993 | .965 | 8.91 | .0846 | .0802 | .0767 | .0740 | .0884 | .0842 | .0800 | .0770 |
| 1460 | .35 | .998 | .645 | 8.83 | .0835 | .0790 | .0754 | .0724 | .0875 | .0830 | .0794 | .0766 |
| 1500 | -.39 | 1.000 | .005 | 8.69 | .0952 | .0907 | .0864 | .0834 | .0991 | .0942 | .0903 | .0873 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 6.56 | .821 | .451 | 6.59 | .1189 | .1164 | .1130 | .1102 | .1147 | .1102 | .1077 | .1049 |
| 1340 | 4.27 | .848 | .511 | 7.51 | .0955 | .0914 | .0872 | .0841 | .0982 | .0933 | .0894 | .0866 |
| 1380 | 2.07 | .979 | .668 | 8.21 | .0836 | .0796 | .0767 | .0740 | .0879 | .0830 | .0791 | .0760 |
| 1420 | 1.04 | .980 | .460 | 9.49 | .0759 | .0710 | .0671 | .0640 | .0802 | .0753 | .0714 | .0683 |
| 1460 | .18 | .999 | .114 | 9.49 | .0736 | .0688 | .0646 | .0615 | .0779 | .0728 | .0689 | .0658 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 7.94 | .843 | .496 | 6.41 | .1012 | .0962 | .0923 | .0882 | .1045 | .1004 | .0964 | .0934 |
| 1340 | 5.69 | .860 | .587 | 7.43 | .0895 | .0840 | .0797 | .0754 | .0922 | .0877 | .0834 | .0810 |
| 1380 | 3.66 | .977 | .674 | 8.09 | .0764 | .0741 | .0714 | .0685 | .0850 | .0814 | .0781 | .0760 |
| 1420 | .00 | .941 | 0.000 | 9.61 | .0651 | .0596 | .0554 | .0521 | .0694 | .0640 | .0597 | .0564 |
| 1460 | 0.00 | 1.000 | 0.000 | 10.07 | .0627 | .0571 | .0528 | .0493 | .0672 | .0617 | .0573 | .0539 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 8.40 | .874 | .591 | 10.52 | .0967 | .0911 | .0867 | .0833 | .1014 | .0964 | .0916 | .0880 |
| 1340 | 7.24 | .957 | .686 | 10.53 | .0817 | .0769 | .0714 | .0678 | .0855 | .0807 | .0762 | .0726 |
| 1380 | 5.37 | .976 | 0.000 | 10.11 | .0676 | .0617 | .0572 | .0537 | .0720 | .0674 | .0631 | .0592 |
| 1420 | .62 | .944 | 0.000 | 10.97 | .0561 | .0524 | .0478 | .0443 | .0626 | .0580 | .0537 | .0494 |
| 1460 | -.16 | .999 | 0.000 | 10.91 | .0547 | .0488 | .0442 | .0406 | .0599 | .0550 | .0509 | .0464 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 2.86 | .956 | .116 | 10.97 | .0987 | .0928 | .0882 | .0845 | .0976 | .0937 | .0891 | .0854 |
| 1340 | 1.69 | .956 | 0.000 | 10.09 | .0737 | .0677 | .0631 | .0599 | .0745 | .0700 | .0659 | .0633 |
| 1380 | 1.16 | .974 | 0.000 | 10.39 | .0622 | .0563 | .0518 | .0482 | .0669 | .0619 | .0585 | .0528 |
| 1420 | .44 | .946 | 0.000 | 10.39 | .0531 | .0473 | .0427 | .0391 | .0577 | .0519 | .0474 | .0430 |
| 1460 | -.33 | .947 | 0.000 | 10.78 | .0459 | .0400 | .0354 | .0318 | .0508 | .0449 | .0403 | .0366 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 2.45 | .943 | 0.000 | 10.66 | .0796 | .0727 | .0691 | .0654 | .0846 | .0786 | .0740 | .0703 |
| 1340 | 1.67 | .954 | 0.000 | 10.77 | .0684 | .0626 | .0580 | .0544 | .0733 | .0674 | .0628 | .0592 |
| 1380 | 1.01 | .941 | 0.000 | 10.66 | .0595 | .0537 | .0492 | .0457 | .0643 | .0584 | .0540 | .0504 |
| 1420 | .74 | .947 | 0.000 | 10.95 | .0499 | .0441 | .0397 | .0361 | .0546 | .0489 | .0444 | .0409 |

LP/W(1/3) = 9.0 LP (FT) = 22.8 48.5 104.4 225.0 22.8 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1300 | 2.17 | .911 | 0.000 | 10.78 | .0735 | .0677 | .0632 | .0597 | .0783 | .0726 | .0681 | .0645 |
| 1340 | 1.45 | .967 | .024 | 10.74 | .0656 | .0599 | .0555 | .0520 | .0705 | .0649 | .0603 | .0568 |
| 1380 | .91 | .944 | .044 | 10.70 | .0546 | .0488 | .0444 | .0409 | .0613 | .0557 | .0513 | .0478 |
| 1420 | -.31 | .947 | -.051 | 10.72 | .0479 | .0422 | .0378 | .0344 | .0526 | .0470 | .0427 | .0392 |

RESISTANCE DATA STRIPS 65-B MODEL 5240

LP/RPX = 1.32 HEADRISE ANGLE = 16.3 DEG FHW = 1.75

WEIGHT = LIFT (LG, SEAWATER) = 1000 1000 1000 1000 1000 1000 1000 1000

LP/W(L/3) = 4.0 LP (FT) = 12.5 26.9 54.0 125.0 12.5 26.9 54.0 125.0

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 6.38 | 0.97 | 4.79 | 5.84 | .1511 | .1468 | .1435 | .1400 | .1546 | .1504 | .1471 | .1444 |
| 1.80 | 4.50 | .955 | .767 | 6.42 | .1349 | .1303 | .1268 | .1240 | .1387 | .1342 | .1307 | .1279 |
| 4.20 | 2.59 | .944 | .400 | 6.87 | .1183 | .1137 | .1093 | .1063 | .1209 | .1168 | .1128 | .1094 |
| 4.60 | 1.40 | 1.000 | .919 | 7.06 | .1120 | .1076 | .1033 | .1001 | .1148 | .1104 | .1062 | .1029 |
| 5.10 | 1.34 | 1.000 | .942 | 7.93 | .1279 | .1225 | .1183 | .1149 | .1297 | .1244 | .1201 | .1169 |

LP/W(L/4) = 5.4 LP (FT) = 13.7 29.6 53.8 137.5 13.7 29.6 53.8 137.5

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/4) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 4.89 | .847 | .625 | 6.95 | .1541 | .1534 | .1503 | .1476 | .1617 | .1573 | .1539 | .1512 |
| 1.80 | 3.50 | .963 | .752 | 7.40 | .1305 | .1257 | .1218 | .1188 | .1334 | .1280 | .1241 | .1211 |
| 4.20 | 2.49 | .900 | .454 | 7.57 | .1189 | .1130 | .1094 | .1067 | .1213 | .1154 | .1114 | .1083 |
| 4.60 | 1.69 | 1.330 | 1.000 | 7.74 | .1046 | .0987 | .0950 | .0926 | .1072 | .1013 | .0973 | .0942 |
| 5.00 | 1.30 | 1.300 | .944 | 8.70 | .1243 | .1227 | .1194 | .1149 | .1294 | .1279 | .1235 | .1180 |

LP/W(L/4) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/4) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 5.81 | .772 | .478 | 6.83 | .1345 | .1295 | .1256 | .1225 | .1377 | .1337 | .1294 | .1267 |
| 1.80 | 4.20 | .879 | .614 | 7.89 | .1189 | .1134 | .1091 | .1057 | .1217 | .1182 | .1140 | .1106 |
| 1.80 | 3.00 | .965 | .727 | 8.03 | .1368 | .1304 | .1262 | .1225 | .1372 | .1303 | .1261 | .1229 |
| 4.20 | 1.72 | .911 | .403 | 7.57 | .0926 | .0873 | .0831 | .0798 | .0943 | .0891 | .0854 | .0824 |
| 4.60 | 1.61 | .949 | .475 | 7.75 | .0935 | .0879 | .0836 | .0801 | .0942 | .0886 | .0842 | .0804 |
| 5.00 | 1.40 | 1.000 | .744 | 10.73 | .1151 | .1075 | .1016 | .0968 | .1217 | .1141 | .1071 | .1034 |

LP/W(L/3) = 6.4 LP (FT) = 16.7 35.0 75.4 162.5 16.7 35.0 75.4 162.5

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 4.95 | .748 | .429 | 7.41 | .1235 | .1180 | .1136 | .1101 | .1253 | .1217 | .1184 | .1149 |
| 1.80 | 3.59 | .985 | .600 | 8.74 | .1104 | .1041 | .0991 | .0952 | .1162 | .1099 | .1049 | .1009 |
| 1.80 | 2.42 | .975 | .455 | 8.77 | .0961 | .0887 | .0836 | .0796 | .1008 | .0944 | .0893 | .0853 |
| 4.20 | 1.87 | .977 | .110 | 8.29 | .0824 | .0764 | .0717 | .0679 | .0875 | .0815 | .0767 | .0730 |
| 4.60 | 1.44 | .966 | 0.000 | 8.40 | .0845 | .0782 | .0733 | .0694 | .0885 | .0823 | .0774 | .0734 |
| 5.00 | 1.36 | 1.000 | .169 | 10.36 | .1034 | .0950 | .0892 | .0856 | .1047 | .0973 | .0906 | .0850 |

LP/W(L/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 4.30 | .773 | .427 | 8.93 | .1145 | .1082 | .1033 | .0994 | .1200 | .1137 | .1088 | .1049 |
| 1.80 | 3.00 | .949 | .444 | 10.47 | .1056 | .0984 | .0927 | .0882 | .1121 | .1049 | .0993 | .0944 |
| 1.80 | 1.97 | .973 | .134 | 9.01 | .0845 | .0775 | .0720 | .0677 | .0905 | .0835 | .0780 | .0737 |
| 4.20 | 1.07 | .979 | 0.000 | 9.92 | .0723 | .0656 | .0603 | .0561 | .0778 | .0710 | .0654 | .0616 |
| 4.60 | 1.29 | 1.000 | .157 | 9.87 | .0937 | .0862 | .0804 | .0764 | .0992 | .0923 | .0864 | .0825 |

LP/W(L/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 3.79 | .893 | .382 | 10.23 | .1124 | .1059 | .0998 | .0955 | .1187 | .1116 | .1060 | .1016 |
| 1.80 | 2.62 | .914 | .237 | 11.07 | .1000 | .0923 | .0861 | .0815 | .1044 | .0991 | .0930 | .0882 |
| 1.80 | 1.61 | .971 | 0.000 | 10.04 | .0744 | .0689 | .0630 | .0584 | .0826 | .0751 | .0692 | .0646 |
| 4.20 | 1.78 | .944 | 0.000 | 9.43 | .0666 | .0593 | .0537 | .0492 | .0724 | .0651 | .0594 | .0549 |
| 4.60 | 1.15 | .943 | 0.000 | 9.68 | .0725 | .0653 | .0596 | .0554 | .0744 | .0672 | .0617 | .0572 |
| 5.00 | 1.27 | 1.000 | .166 | 10.79 | .0892 | .0815 | .0754 | .0719 | .0914 | .0843 | .0786 | .0742 |

LP/W(L/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 3.19 | .926 | .244 | 11.02 | .1106 | .1029 | .0964 | .0920 | .1173 | .1096 | .1036 | .0988 |
| 1.80 | 2.23 | .932 | 0.000 | 11.03 | .0912 | .0842 | .0776 | .0720 | .0979 | .0899 | .0837 | .0784 |
| 1.80 | 1.34 | .978 | 0.000 | 10.33 | .0731 | .0653 | .0572 | .0523 | .0774 | .0686 | .0616 | .0566 |
| 1.80 | 1.27 | .949 | 0.000 | 9.99 | .0635 | .0556 | .0494 | .0452 | .0684 | .0592 | .0510 | .0453 |
| 4.60 | 1.04 | .941 | 0.000 | 10.13 | .0674 | .0580 | .0512 | .0476 | .0716 | .0622 | .0534 | .0484 |
| 5.00 | 1.34 | .949 | .094 | 10.57 | .0775 | .0707 | .0644 | .0599 | .0840 | .0766 | .0706 | .0662 |

LP/W(L/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 2.87 | .947 | .053 | 10.94 | .1034 | .0950 | .0889 | .0840 | .1104 | .1027 | .0966 | .0917 |
| 1.80 | 1.92 | .946 | 0.000 | 11.80 | .0856 | .0775 | .0717 | .0667 | .0924 | .0844 | .0781 | .0731 |
| 1.80 | 1.16 | .988 | 0.000 | 10.97 | .0717 | .0632 | .0570 | .0520 | .0779 | .0690 | .0627 | .0577 |
| 4.20 | 1.54 | .941 | 0.000 | 10.74 | .0644 | .0554 | .0494 | .0445 | .0697 | .0620 | .0559 | .0511 |
| 4.60 | 1.02 | .943 | 0.000 | 10.49 | .0614 | .0531 | .0471 | .0424 | .0674 | .0597 | .0535 | .0489 |

LP/W(L/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (FT) | TWIN LP (FT) | LK LP (FT) | LC LP (FT) | S W(L/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------------|-----------------|---------------|---------------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 1.40 | 2.45 | .945 | 0.000 | 10.77 | .0954 | .0879 | .0814 | .0770 | .1027 | .0945 | .0884 | .0836 |
| 1.80 | 1.67 | .944 | .007 | 11.74 | .0724 | .0644 | .0586 | .0536 | .0794 | .0714 | .0656 | .0607 |
| 1.80 | 1.01 | .944 | 0.000 | 11.47 | .0720 | .0641 | .0579 | .0520 | .0779 | .0693 | .0630 | .0581 |
| 4.20 | 1.43 | .917 | .007 | 11.70 | .0644 | .0557 | .0497 | .0449 | .0702 | .0616 | .0554 | .0504 |
| 4.60 | 1.11 | .919 | .071 | 10.69 | .0617 | .0530 | .0473 | .0421 | .0671 | .0582 | .0521 | .0471 |

RESISTANCE DATA SERIES 64-8 MODFL 5240

LP/PIK = 3.32 DEARRISE ANGLE = 16.3 DEG FNY = 2.00

WEIGHT = LIFT (L0, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 48.0 125.0 12.5 26.9 48.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.13 | .732 | .496 | 9.40 | .1701 | .1650 | .1610 | .1570 | .1745 | .1693 | .1653 | .1621 |
| .300 | 4.94 | .922 | .707 | 6.14 | .1400 | .1433 | .1390 | .1356 | .1534 | .1482 | .1439 | .1405 |
| .420 | 3.80 | .979 | .812 | 6.52 | .1360 | .1310 | .1266 | .1230 | .1420 | .1363 | .1318 | .1282 |
| .460 | .70 | .988 | .903 | 6.60 | .1435 | .1361 | .1302 | .1254 | .1504 | .1429 | .1371 | .1324 |

LP/V(1/3) = 5.5 LP (FT) = 11.7 29.6 51.8 137.5 11.7 29.6 51.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 5.49 | .707 | .581 | 6.49 | .1446 | .1386 | .1340 | .1301 | .1496 | .1434 | .1382 | .1354 |
| .300 | 3.79 | .943 | .712 | 7.33 | .1294 | .1294 | .1183 | .1143 | .1357 | .1292 | .1242 | .1202 |
| .420 | 2.30 | .943 | .843 | 7.00 | .1236 | .1169 | .1115 | .1073 | .1299 | .1232 | .1179 | .1138 |
| .460 | .69 | .992 | 1.000 | 8.82 | .1279 | .1205 | .1147 | .1101 | .1349 | .1275 | .1217 | .1171 |

LP/V(1/3) = 6.0 LP (FT) = 11.0 32.3 69.6 150.0 11.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 6.40 | .636 | .476 | 6.36 | .1506 | .1445 | .1390 | .1361 | .1457 | .1406 | .1349 | .1311 |
| .300 | 4.50 | .821 | .660 | 7.93 | .1347 | .1276 | .1224 | .1182 | .1403 | .1337 | .1284 | .1242 |
| .300 | 3.19 | .900 | .702 | 6.68 | .1204 | .1134 | .1075 | .1028 | .1277 | .1203 | .1144 | .1097 |
| .420 | 1.94 | .900 | .674 | 8.70 | .1114 | .1037 | .0977 | .0929 | .1174 | .1107 | .1047 | .0999 |
| .460 | .72 | .983 | .374 | 8.78 | .1145 | .1066 | .1004 | .0955 | .1215 | .1136 | .1075 | .1026 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 36.0 75.4 162.5 16.2 36.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 5.37 | .667 | .400 | 7.22 | .1302 | .1235 | .1183 | .1121 | .1440 | .1373 | .1320 | .1279 |
| .300 | 3.96 | .836 | .576 | 8.96 | .1275 | .1197 | .1137 | .1084 | .1345 | .1268 | .1207 | .1159 |
| .300 | 2.70 | .951 | .484 | 9.70 | .1126 | .1042 | .0976 | .0923 | .1206 | .1120 | .1053 | .1001 |
| .420 | 1.62 | .974 | .845 | 8.83 | .0989 | .0905 | .0841 | .0789 | .1059 | .0976 | .0911 | .0860 |
| .460 | .61 | .979 | 0.800 | 8.47 | .1014 | .1011 | .0967 | .0915 | .1081 | .0999 | .0934 | .0883 |
| .500 | -.45 | 1.000 | .789 | 8.41 | .1349 | .1261 | .1192 | .1137 | .1427 | .1340 | .1272 | .1220 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 4.64 | .697 | .411 | 8.36 | .1396 | .1331 | .1272 | .1224 | .1473 | .1407 | .1348 | .1291 |
| .300 | 3.41 | .874 | .590 | 10.25 | .1225 | .1136 | .1067 | .1011 | .1307 | .1231 | .1169 | .1103 |
| .300 | 2.26 | .961 | .252 | 10.15 | .0996 | .0906 | .0838 | .0779 | .1077 | .0987 | .0916 | .0860 |
| .420 | 1.21 | .974 | 0.800 | 8.80 | .0924 | .0744 | .0678 | .0626 | .0989 | .0915 | .0749 | .0697 |
| .460 | .36 | .983 | 0.800 | 8.17 | .0937 | .0859 | .0799 | .0750 | .1002 | .0925 | .0864 | .0816 |
| .500 | -.22 | 1.000 | .103 | 8.25 | .1215 | .1141 | .1083 | .1036 | .1282 | .1207 | .1148 | .1102 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 4.13 | .729 | .401 | 9.72 | .1291 | .1205 | .1130 | .1080 | .1368 | .1287 | .1215 | .1167 |
| .300 | 3.00 | .896 | .402 | 11.52 | .1129 | .1031 | .0953 | .0907 | .1202 | .1103 | .1025 | .0962 |
| .300 | 1.92 | .944 | .095 | 10.47 | .0862 | .0748 | .0674 | .0615 | .0926 | .0832 | .0756 | .0699 |
| .420 | .79 | .941 | 0.800 | 8.83 | .0744 | .0666 | .0602 | .0551 | .0819 | .0736 | .0672 | .0621 |
| .460 | .13 | .946 | 0.800 | 7.99 | .0964 | .0891 | .0834 | .0780 | .1020 | .0955 | .0890 | .0842 |
| .500 | .04 | .947 | .030 | 7.92 | .1014 | .0942 | .0886 | .0841 | .1078 | .1006 | .0949 | .0904 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.73 | .786 | .343 | 10.89 | .1267 | .1191 | .1115 | .1065 | .1374 | .1279 | .1202 | .1142 |
| .300 | 2.58 | .899 | .217 | 12.06 | .1083 | .0978 | .0894 | .0820 | .1100 | .1014 | .0931 | .0874 |
| .300 | 1.37 | .973 | 0.800 | 10.28 | .0707 | .0606 | .0532 | .0474 | .0787 | .0688 | .0614 | .0556 |
| .420 | .41 | .948 | 0.800 | 8.57 | .0765 | .0667 | .0625 | .0577 | .0834 | .0755 | .0694 | .0645 |
| .460 | -.03 | .944 | .037 | 8.02 | .0999 | .0927 | .0871 | .0826 | .1063 | .0991 | .0935 | .0890 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.37 | .759 | .235 | 11.95 | .1276 | .1169 | .1086 | .1020 | .1371 | .1265 | .1182 | .1115 |
| .300 | 2.16 | .912 | .063 | 12.83 | .0924 | .0817 | .0733 | .0666 | .1020 | .0913 | .0829 | .0762 |
| .300 | .90 | .987 | 0.800 | 10.00 | .0636 | .0546 | .0475 | .0418 | .0716 | .0625 | .0559 | .0490 |
| .420 | .16 | .987 | 0.800 | 8.61 | .0422 | .0344 | .0284 | .0235 | .0481 | .0413 | .0353 | .0294 |
| .460 | -.08 | .970 | .018 | 8.36 | .0972 | .0898 | .0840 | .0793 | .1039 | .0965 | .0906 | .0860 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.00 | .776 | .092 | 12.50 | .1222 | .1109 | .1026 | .0950 | .1327 | .1209 | .1120 | .1050 |
| .300 | 1.81 | .931 | .038 | 11.88 | .0913 | .0780 | .0696 | .0650 | .0980 | .0883 | .0792 | .0755 |
| .300 | .75 | .966 | .015 | 10.17 | .0644 | .0557 | .0487 | .0432 | .0727 | .0638 | .0569 | .0511 |
| .420 | .06 | .981 | .095 | 8.97 | .0424 | .0350 | .0288 | .0239 | .0588 | .0491 | .0429 | .0370 |
| .460 | -.05 | .973 | .007 | 8.74 | .0859 | .0812 | .0752 | .0703 | .0959 | .0882 | .0822 | .0773 |

RESISTANCE DATA SERIES 65-8 MODEL 4240

LP/BPX = 3.32 DEAPRISE ANGLE = 16.3 DEG FNV = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 4.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 6.39 | .716 | .383 | 5.44 | .1796 | .1717 | .1655 | .1606 | .1864 | .1785 | .1723 | .1674 | .1644 |
| .340 | 6.92 | .613 | .332 | 5.23 | .1789 | .1671 | .1593 | .1498 | .1789 | .1702 | .1634 | .1579 | .1549 |
| .380 | 5.24 | .750 | .501 | 6.47 | .1672 | .1503 | .1513 | .1457 | .1751 | .1664 | .1594 | .1538 | .1508 |
| .420 | 3.66 | .903 | .605 | 6.99 | .1617 | .1524 | .1451 | .1393 | .1704 | .1611 | .1534 | .1480 | .1450 |
| .460 | 1.50 | .988 | .977 | 10.83 | .1717 | .1591 | .1492 | .1412 | .1742 | .1716 | .1617 | .1537 | .1497 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 53.8 137.5 13.7 29.6 53.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 7.39 | .512 | .290 | 4.37 | .1760 | .1682 | .1630 | .1589 | .1804 | .1737 | .1675 | .1644 | .1614 |
| .340 | 6.92 | .613 | .332 | 5.23 | .1729 | .1647 | .1594 | .1533 | .1794 | .1716 | .1653 | .1602 | .1572 |
| .380 | 5.24 | .750 | .501 | 6.47 | .1672 | .1503 | .1513 | .1457 | .1751 | .1664 | .1594 | .1538 | .1508 |
| .420 | 3.66 | .903 | .605 | 6.99 | .1617 | .1524 | .1451 | .1393 | .1704 | .1611 | .1534 | .1480 | .1450 |
| .460 | 1.50 | .988 | .977 | 10.83 | .1717 | .1591 | .1492 | .1412 | .1742 | .1716 | .1617 | .1537 | .1497 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 6.26 | .543 | .268 | 5.14 | .1595 | .1514 | .1458 | .1411 | .1649 | .1583 | .1523 | .1475 | .1445 |
| .340 | 5.43 | .648 | .395 | 6.22 | .1600 | .1512 | .1443 | .1384 | .1677 | .1590 | .1521 | .1466 | .1436 |
| .380 | 4.50 | .777 | .538 | 7.42 | .1612 | .1512 | .1436 | .1371 | .1704 | .1605 | .1525 | .1464 | .1434 |
| .420 | 3.00 | .942 | .851 | 8.51 | .1528 | .1427 | .1339 | .1269 | .1645 | .1543 | .1446 | .1376 | .1346 |
| .460 | 1.50 | .978 | .990 | 9.65 | .1647 | .1524 | .1430 | .1354 | .1764 | .1645 | .1551 | .1475 | .1445 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 5.43 | .570 | .317 | 6.09 | .1541 | .1458 | .1386 | .1331 | .1617 | .1530 | .1462 | .1407 | .1377 |
| .340 | 4.64 | .680 | .480 | 7.46 | .1557 | .1456 | .1377 | .1313 | .1651 | .1549 | .1470 | .1406 | .1376 |
| .380 | 3.64 | .841 | .643 | 8.60 | .1536 | .1420 | .1329 | .1256 | .1646 | .1530 | .1439 | .1366 | .1336 |
| .420 | 2.53 | .954 | .878 | 10.01 | .1531 | .1403 | .1302 | .1221 | .1656 | .1524 | .1427 | .1346 | .1316 |
| .460 | 1.26 | .972 | .967 | 11.16 | .1614 | .1475 | .1365 | .1277 | .1751 | .1614 | .1505 | .1417 | .1387 |
| .500 | -1.33 | 1.000 | .937 | 12.36 | .1600 | .1428 | .1300 | .1207 | .1745 | .1582 | .1475 | .1387 | .1357 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 4.93 | .580 | .361 | 7.23 | .1486 | .1385 | .1306 | .1243 | .1576 | .1476 | .1396 | .1333 | .1303 |
| .340 | 4.09 | .712 | .445 | 8.02 | .1508 | .1391 | .1298 | .1224 | .1618 | .1501 | .1408 | .1334 | .1304 |
| .380 | 3.12 | .875 | .642 | 10.23 | .1537 | .1408 | .1300 | .1216 | .1663 | .1532 | .1427 | .1344 | .1314 |
| .420 | 2.18 | .943 | .827 | 11.56 | .1520 | .1371 | .1254 | .1160 | .1664 | .1515 | .1394 | .1304 | .1274 |
| .460 | 1.06 | .969 | .928 | 12.49 | .1560 | .1401 | .1275 | .1174 | .1713 | .1563 | .1427 | .1327 | .1297 |
| .500 | -1.43 | 1.000 | 0.900 | 13.73 | .1545 | .1383 | .1252 | .1153 | .1705 | .1524 | .1387 | .1287 | .1257 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 4.01 | .585 | .335 | 8.43 | .1490 | .1364 | .1272 | .1199 | .1585 | .1469 | .1377 | .1304 | .1274 |
| .340 | 3.49 | .747 | .504 | 10.21 | .1544 | .1410 | .1304 | .1219 | .1622 | .1487 | .1381 | .1304 | .1274 |
| .380 | 2.74 | .880 | .653 | 11.64 | .1562 | .1411 | .1292 | .1196 | .1707 | .1556 | .1437 | .1342 | .1312 |
| .420 | 1.84 | .942 | .866 | 12.61 | .1496 | .1379 | .1279 | .1192 | .1654 | .1486 | .1385 | .1299 | .1269 |
| .460 | .80 | .977 | 0.900 | 13.97 | .1534 | .1367 | .1236 | .1137 | .1683 | .1517 | .1386 | .1282 | .1252 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 4.27 | .605 | .320 | 9.41 | .1404 | .1374 | .1275 | .1195 | .1622 | .1494 | .1393 | .1313 | .1283 |
| .340 | 3.35 | .763 | .566 | 11.48 | .1508 | .1439 | .1321 | .1226 | .1732 | .1582 | .1464 | .1370 | .1340 |
| .380 | 2.40 | .886 | .717 | 12.75 | .1524 | .1357 | .1225 | .1120 | .1683 | .1516 | .1394 | .1299 | .1269 |
| .420 | 1.40 | .956 | 0.880 | 12.65 | .1423 | .1251 | .1115 | .1007 | .1581 | .1409 | .1276 | .1166 | .1136 |
| .460 | .50 | .988 | 0.900 | 13.45 | .1528 | .1380 | .1264 | .1171 | .1658 | .1510 | .1394 | .1282 | .1252 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 3.97 | .620 | .319 | 10.32 | .1454 | .1416 | .1307 | .1220 | .1683 | .1545 | .1436 | .1349 | .1319 |
| .340 | 3.09 | .769 | .532 | 12.95 | .1516 | .1440 | .1316 | .1210 | .1774 | .1610 | .1478 | .1372 | .1342 |
| .380 | 2.02 | .912 | .809 | 13.24 | .1412 | .1233 | .1099 | .0989 | .1674 | .1403 | .1265 | .1154 | .1124 |
| .420 | .89 | .986 | 0.900 | 11.30 | .1337 | .1183 | .1062 | .0966 | .1479 | .1224 | .1104 | .0993 | .0963 |
| .460 | .21 | .989 | 0.900 | 9.61 | .1503 | .1465 | .1374 | .1301 | .1691 | .1574 | .1482 | .1386 | .1356 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 46.5 104.4 225.0 22.5 46.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 3.79 | .616 | .311 | 11.37 | .1495 | .1444 | .1325 | .1230 | .1737 | .1596 | .146 | .1372 | .1342 |
| .340 | 2.83 | .782 | .570 | 14.57 | .1570 | .1490 | .1241 | .1123 | .1760 | .1572 | .142 | .1305 | .1275 |
| .380 | 1.50 | .958 | 0.900 | 12.35 | .1231 | .1060 | .0940 | .0837 | .1386 | .1222 | .105 | .0991 | .0961 |
| .420 | .40 | .998 | 0.900 | 8.77 | .1406 | .1290 | .1199 | .1126 | .1515 | .1399 | .1208 | .1123 | .1093 |

RESISTANCE DATA SERIES 65-B MODFL 524c

LP/BOX = 3.37 DEADPISE ANGLE = 16.3 DEG FNV = 3.00

WIGHT = LIFT (LR, SEAWATER) = 1001 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 5.0 LP (FT) = 12.5 26.9 50.0 125.0 12.5 26.9 50.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 7.16 | .491 | .703 | 3.74 | .1775 | .1702 | .1645 | .1600 | .1836 | .1763 | .1706 | .1661 |
| .340 | 6.71 | .453 | .383 | 4.12 | .1817 | .1731 | .1666 | .1610 | .1891 | .1805 | .1738 | .1684 |
| .380 | 6.21 | .411 | .462 | 4.46 | .1852 | .1758 | .1677 | .1616 | .1939 | .1841 | .1765 | .1704 |
| .420 | 5.64 | .372 | .547 | 4.75 | .1892 | .1782 | .1695 | .1626 | .1984 | .1884 | .1797 | .1728 |
| .460 | 4.91 | .342 | .643 | 5.05 | .1931 | .1808 | .1714 | .1633 | .2079 | .1966 | .1869 | .1781 |
| .500 | 4.27 | .316 | .724 | 5.31 | .2073 | .1934 | .1832 | .1747 | .2204 | .2070 | .1963 | .1878 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 6.37 | .512 | .221 | 3.76 | .1727 | .1646 | .1583 | .1533 | .1795 | .1714 | .1651 | .1601 |
| .340 | 5.89 | .466 | .303 | 4.61 | .1784 | .1689 | .1619 | .1555 | .1867 | .1772 | .1697 | .1638 |
| .380 | 5.47 | .428 | .388 | 5.44 | .1850 | .1752 | .1667 | .1599 | .1958 | .1851 | .1765 | .1697 |
| .420 | 5.04 | .394 | .475 | 6.28 | .1922 | .1811 | .1736 | .1659 | .2065 | .1944 | .1849 | .1772 |
| .460 | 4.50 | .364 | .572 | 7.27 | .2075 | .1939 | .1832 | .1747 | .2206 | .2079 | .1963 | .1877 |
| .500 | 4.21 | .375 | .574 | 7.52 | .2115 | .1975 | .1865 | .1777 | .2250 | .2111 | .2000 | .1912 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 64.6 150.0 15.0 32.3 64.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 5.48 | .575 | .285 | 4.17 | .1659 | .1553 | .1488 | .1428 | .1743 | .1667 | .1572 | .1512 |
| .340 | 5.04 | .535 | .365 | 5.49 | .1727 | .1610 | .1535 | .1468 | .1824 | .1717 | .1621 | .1566 |
| .380 | 4.64 | .493 | .460 | 6.18 | .1803 | .1682 | .1599 | .1515 | .1910 | .1792 | .1689 | .1628 |
| .420 | 4.29 | .441 | .477 | 6.73 | .1861 | .1736 | .1635 | .1555 | .1964 | .1847 | .1757 | .1676 |
| .460 | 3.80 | .411 | .459 | 7.53 | .1931 | .1811 | .1700 | .1611 | .2086 | .1966 | .1835 | .1747 |
| .500 | 3.00 | .392 | .467 | 9.00 | .2113 | .1950 | .1820 | .1717 | .2279 | .2111 | .1982 | .1878 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 4.81 | .551 | .336 | 5.40 | .1634 | .1527 | .1462 | .1395 | .1731 | .1654 | .1559 | .1472 |
| .340 | 4.43 | .517 | .392 | 6.12 | .1705 | .1586 | .1493 | .1410 | .1815 | .1696 | .1583 | .1528 |
| .380 | 3.99 | .470 | .474 | 7.02 | .1766 | .1632 | .1527 | .1443 | .1892 | .1758 | .1653 | .1569 |
| .420 | 3.48 | .416 | .368 | 8.15 | .1841 | .1689 | .1569 | .1473 | .1980 | .1835 | .1715 | .1619 |
| .460 | 3.02 | .361 | .385 | 9.17 | .1914 | .1745 | .1613 | .1506 | .2079 | .1910 | .1778 | .1671 |
| .500 | 2.28 | .355 | .464 | 10.89 | .2038 | .1847 | .1696 | .1575 | .2274 | .2043 | .1892 | .1771 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 61.2 175.0 17.5 37.7 61.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 4.35 | .551 | .331 | 5.93 | .1627 | .1512 | .1428 | .1360 | .1731 | .1610 | .1527 | .1454 |
| .340 | 3.93 | .455 | .321 | 7.17 | .1688 | .1551 | .1443 | .1356 | .1817 | .1680 | .1572 | .1485 |
| .380 | 3.51 | .447 | .314 | 8.43 | .1755 | .1596 | .1471 | .1371 | .1907 | .1744 | .1623 | .1523 |
| .420 | 3.00 | .351 | .332 | 9.87 | .1844 | .1666 | .1522 | .1406 | .2027 | .1844 | .1700 | .1585 |
| .460 | 2.79 | .378 | .482 | 10.38 | .1891 | .1703 | .1555 | .1436 | .2078 | .1890 | .1742 | .1623 |
| .500 | 1.83 | .355 | .473 | 11.99 | .2104 | .1904 | .1742 | .1611 | .2329 | .2120 | .1958 | .1827 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 67.8 187.5 18.7 40.4 67.8 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 4.06 | .578 | .308 | 6.82 | .1651 | .1519 | .1416 | .1333 | .1773 | .1642 | .1538 | .1466 |
| .340 | 3.65 | .471 | .301 | 8.33 | .1735 | .1578 | .1454 | .1355 | .1885 | .1728 | .1604 | .1505 |
| .380 | 3.26 | .458 | .302 | 9.78 | .1825 | .1644 | .1500 | .1386 | .2001 | .1824 | .1676 | .1562 |
| .420 | 2.95 | .419 | .326 | 10.80 | .1896 | .1699 | .1543 | .1414 | .2100 | .1893 | .1737 | .1613 |
| .460 | 2.58 | .375 | .458 | 11.72 | .1978 | .1772 | .1600 | .1456 | .2200 | .1981 | .1819 | .1687 |
| .500 | 1.90 | .366 | .490 | 13.37 | .2212 | .1986 | .1804 | .1662 | .2452 | .2224 | .2042 | .1903 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 3.88 | .540 | .290 | 7.71 | .1717 | .1570 | .1454 | .1361 | .1856 | .1709 | .1583 | .1500 |
| .340 | 3.47 | .459 | .290 | 9.37 | .1823 | .1648 | .1510 | .1399 | .1997 | .1817 | .1678 | .1564 |
| .380 | 3.09 | .453 | .295 | 10.94 | .1924 | .1727 | .1569 | .1442 | .2125 | .1924 | .1766 | .1639 |
| .420 | 2.93 | .475 | .302 | 11.34 | .1955 | .1748 | .1584 | .1453 | .2159 | .1952 | .1788 | .1657 |
| .460 | 2.49 | .452 | .406 | 12.77 | .2067 | .1845 | .1637 | .1495 | .2269 | .2044 | .1866 | .1724 |
| .500 | 1.11 | .384 | .460 | 14.93 | .2297 | .2041 | .1834 | .1676 | .2566 | .2310 | .2107 | .1944 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 3.76 | .474 | .267 | 8.64 | .1809 | .1645 | .1515 | .1412 | .1944 | .1801 | .1671 | .1568 |
| .340 | 3.35 | .459 | .274 | 10.40 | .1916 | .1723 | .1570 | .1440 | .2103 | .1910 | .1757 | .1635 |
| .380 | 3.03 | .425 | .275 | 11.75 | .2000 | .1789 | .1616 | .1440 | .2212 | .1997 | .1827 | .1691 |
| .420 | 3.06 | .447 | .273 | 11.62 | .1994 | .1781 | .1613 | .1477 | .2203 | .1990 | .1822 | .1687 |
| .460 | 2.47 | .418 | .285 | 13.75 | .2087 | .1840 | .1656 | .1501 | .2340 | .2096 | .1903 | .1758 |
| .500 | 1.61 | .400 | .312 | 15.10 | .2404 | .2136 | .1923 | .1753 | .2675 | .2407 | .2195 | .2024 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|----------|------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP (DFG) | LP | LP | LP | W(2/3) | | | | | | | | |
| .300 | 3.64 | .455 | .247 | 9.71 | .1893 | .1713 | .1571 | .1450 | .2074 | .1844 | .1741 | .1629 |
| .340 | 3.24 | .448 | .259 | 11.45 | .1983 | .1772 | .1605 | .1472 | .2184 | .1978 | .1811 | .1678 |
| .380 | 3.04 | .447 | .262 | 12.32 | .2024 | .1801 | .1623 | .1441 | .2247 | .2027 | .1845 | .1702 |
| .420 | 2.84 | .421 | .255 | 12.93 | .2057 | .1817 | .1633 | .1482 | .2284 | .2049 | .1864 | .1715 |
| .460 | 2.00 | .388 | .280 | 14.13 | .2187 | .1907 | .1690 | .1516 | .2459 | .2185 | .1980 | .1793 |
| .500 | 1.05 | .376 | .270 | 14.19 | .2466 | .2166 | .1908 | .1681 | .2767 | .2467 | .2109 | .2282 |

RESISTANCE DATA SERIES 65-8 MODEL 5240

LP/BPX = 3.32 DEADRISE ANGLE = 16.3 DFG FNG = 3.50

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.56 | .508 | .272 | 5.39 | .1281 | .1134 | .1013 | .0925 | .1413 | .1266 | .1150 | .1057 |
| .340 | 2.90 | .593 | .306 | 6.91 | .1498 | .1314 | .1171 | .1055 | .1667 | .1484 | .1339 | .1224 |
| .380 | 1.14 | .629 | .537 | 7.08 | .2005 | .1827 | .1687 | .1575 | .2178 | .2000 | .1860 | .1748 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.11 | .566 | .283 | 5.02 | .1661 | .1529 | .1424 | .1341 | .1784 | .1652 | .1547 | .1464 |
| .340 | 3.79 | .637 | .276 | 5.90 | .1782 | .1629 | .1508 | .1411 | .1927 | .1773 | .1652 | .1556 |
| .380 | 3.50 | .695 | .277 | 6.70 | .1903 | .1732 | .1596 | .1488 | .2067 | .1896 | .1760 | .1652 |
| .420 | 3.21 | .759 | .290 | 7.52 | .2042 | .1852 | .1702 | .1582 | .2226 | .2036 | .1886 | .1767 |
| .460 | 2.84 | .815 | .360 | 8.41 | .2211 | .2003 | .1840 | .1708 | .2417 | .2209 | .2046 | .1914 |
| .500 | 2.35 | .854 | .542 | 9.32 | .2428 | .2207 | .2031 | .1891 | .2647 | .2435 | .2260 | .2119 |

LP/V(1/3) = 7.0 LP (FT) = 17.9 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.18 | .564 | .230 | 5.20 | .1894 | .1757 | .1649 | .1563 | .2021 | .1884 | .1776 | .1690 |
| .340 | 3.82 | .647 | .219 | 5.78 | .2018 | .1869 | .1751 | .1657 | .2160 | .2010 | .1902 | .1798 |
| .380 | 3.52 | .716 | .220 | 6.33 | .2135 | .1974 | .1847 | .1745 | .2290 | .2129 | .2002 | .1900 |
| .420 | 3.24 | .780 | .233 | 6.90 | .2249 | .2076 | .1940 | .1831 | .2418 | .2245 | .2109 | .2000 |
| .460 | 3.00 | .832 | .251 | 7.47 | .2356 | .2172 | .2026 | .1910 | .2539 | .2355 | .2209 | .2093 |
| .500 | 2.76 | .871 | .341 | 8.32 | .2437 | .2236 | .2077 | .1950 | .2641 | .2440 | .2281 | .2154 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 175.0 18.7 40.4 87.0 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.96 | .572 | .183 | 5.84 | .2014 | .1861 | .1740 | .1643 | .2157 | .2004 | .1883 | .1786 |
| .340 | 3.61 | .651 | .181 | 6.53 | .2124 | .1956 | .1824 | .1718 | .2284 | .2116 | .1983 | .1878 |
| .380 | 3.32 | .716 | .191 | 7.18 | .2224 | .2043 | .1908 | .1785 | .2400 | .2219 | .2076 | .1961 |
| .420 | 3.07 | .773 | .205 | 7.83 | .2321 | .2126 | .1973 | .1849 | .2513 | .2316 | .2164 | .2041 |
| .460 | 2.91 | .807 | .246 | 8.40 | .2382 | .2177 | .2014 | .1884 | .2588 | .2382 | .2220 | .2090 |
| .500 | 2.73 | .842 | .306 | 9.14 | .2451 | .2231 | .2058 | .1918 | .2675 | .2455 | .2281 | .2142 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.0 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.66 | .576 | .164 | 7.06 | .2009 | .1825 | .1681 | .1565 | .2181 | .1998 | .1853 | .1738 |
| .340 | 3.34 | .647 | .170 | 8.07 | .2108 | .1907 | .1745 | .1615 | .2310 | .2105 | .1943 | .1813 |
| .380 | 3.09 | .704 | .184 | n.93 | .2208 | .1985 | .1808 | .1667 | .2427 | .2203 | .2027 | .1885 |
| .420 | 2.93 | .746 | .220 | 9.65 | .2288 | .2051 | .1864 | .1713 | .2525 | .2287 | .2100 | .1950 |
| .460 | 2.70 | .786 | .278 | 10.42 | .2377 | .2126 | .1928 | .1768 | .2632 | .2381 | .2183 | .2023 |
| .500 | 2.42 | .841 | .366 | 11.51 | .2416 | .2246 | .2032 | .1859 | .2798 | .2528 | .2313 | .2141 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.6 99.6 212.5 21.2 45.6 911.6 212.5

| LCG LP | TRIP (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.47 | .569 | .166 | 5.41 | .1991 | .1774 | .1604 | .1467 | .2197 | .1980 | .1810 | .1673 |
| .340 | 3.15 | .639 | .175 | 6.76 | .2112 | .1866 | .1672 | .1517 | .2351 | .2105 | .1911 | .1756 |
| .380 | 2.92 | .692 | .203 | 8.74 | .2217 | .1952 | .1743 | .1575 | .2480 | .2215 | .2006 | .1838 |
| .420 | 2.73 | .734 | .251 | 11.50 | .2316 | .2038 | .1819 | .1642 | .2598 | .2320 | .2100 | .1924 |
| .460 | 2.47 | .789 | .319 | 12.46 | .2456 | .2162 | .1929 | .1742 | .2761 | .2467 | .2234 | .2047 |
| .500 | 2.09 | .865 | .417 | 13.76 | .2680 | .2365 | .2115 | .1914 | .3017 | .2702 | .2452 | .2251 |

LP/V(1/3) = 9.8 LP (FT) = 22.5 48.5 104.4 225.0 22.5 40.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.41 | .554 | .173 | 9.07 | .2126 | .1895 | .1713 | .1567 | .2348 | .2117 | .1935 | .1789 |
| .340 | 3.06 | .630 | .183 | 10.60 | .2282 | .2016 | .1807 | .1638 | .2544 | .2278 | .2088 | .1900 |
| .380 | 2.81 | .674 | .212 | 11.57 | .2377 | .2094 | .1871 | .1691 | .2660 | .2378 | .2154 | .1975 |
| .420 | 2.70 | .715 | .248 | 12.36 | .2466 | .2170 | .1935 | .1746 | .2769 | .2472 | .2238 | .2049 |
| .460 | 2.44 | .775 | .304 | 13.51 | .2608 | .2292 | .2041 | .1839 | .2939 | .2622 | .2372 | .2170 |
| .500 | 2.00 | .869 | .387 | 15.14 | .2855 | .2510 | .2235 | .2015 | .3227 | .2882 | .2607 | .2387 |

RESISTANCE DATA SERIES 65-B MODFL 5240

LP/BOX = 3.72

DEADRISE ANGLE = 16.3 DEG

FNO = 4.00

 WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 10.7 40.4 97.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 1.68 | .457 | .323 | 5.02 | .1241 | .1089 | .0967 | .1620 | .1427 | .1275 | .1153 | |
| .340 | .98 | .497 | .407 | 7.06 | .1777 | .1550 | .1370 | .2003 | .1776 | .1596 | .1452 | |
| .380 | 0.80 | .454 | .359 | 6.65 | .2672 | .2454 | .2291 | .2885 | .2666 | .2494 | .2356 | |

 LP/V(1/3) = 0.0 LP (FT) = 20.0 47.1 92.0 200.0 20.0 43.1 92.0 200.1

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.23 | .525 | .12g | 4.94 | .2094 | .1927 | .1795 | .2252 | .2088 | .1963 | .1847 | |
| .340 | 2.95 | .576 | .160 | 5.48 | .2215 | .2034 | .1891 | .2300 | .2209 | .2066 | .1952 | |
| .380 | 2.64 | .632 | .237 | 6.75 | .2304 | .2088 | .1918 | .2519 | .2304 | .2134 | .1997 | |
| .420 | 2.40 | .683 | .315 | 8.05 | .2402 | .2152 | .1955 | .2659 | .2410 | .2212 | .2057 | |
| .460 | 2.13 | .731 | .393 | 9.38 | .2527 | .2239 | .2014 | .2623 | .2539 | .2314 | .2133 | |
| .500 | 1.84 | .776 | .472 | 10.77 | .2666 | .2367 | .2114 | .2731 | .2712 | .2459 | .2255 | |

RESISTANCE DATA SERIES 65-R MODFL 5219

LP/DPY = 4.69 DEADRISE ANGLE = 16.3 DEG FNO = 1.00

HEIGHT = LIFT (LP, SEAWATER) = 100 ion00 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.21 | .964 | .594 | 7.16 | .0649 | .0632 | .0618 | .0607 | .0664 | .0646 | .0632 | .0621 | |
| .340 | 1.96 | .984 | .641 | 7.61 | .0540 | .0521 | .0507 | .0495 | .0555 | .0536 | .0522 | .0510 | |
| .380 | 1.00 | .993 | .693 | 7.86 | .0456 | .0444 | .0423 | .0411 | .0472 | .0453 | .0439 | .0427 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.67 | .972 | .516 | 8.07 | .0592 | .0572 | .0556 | .0544 | .0608 | .0588 | .0572 | .0560 | |
| .340 | 1.60 | .988 | .651 | 8.41 | .0475 | .0455 | .0439 | .0426 | .0492 | .0472 | .0456 | .0443 | |
| .380 | 1.56 | .984 | .699 | 8.77 | .0404 | .0384 | .0368 | .0356 | .0421 | .0400 | .0385 | .0372 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.23 | .974 | .442 | 8.78 | .0560 | .0528 | .0512 | .0498 | .0567 | .0545 | .0528 | .0516 | |
| .340 | 1.24 | .981 | .472 | 9.11 | .0459 | .0428 | .0410 | .0396 | .0468 | .0446 | .0428 | .0415 | |
| .380 | 1.47 | .985 | .517 | 9.24 | .0387 | .0360 | .0342 | .0329 | .0402 | .0379 | .0361 | .0347 | |
| .420 | 1.47 | 1.000 | 1.000 | 9.14 | .0347 | .0323 | .0305 | .0290 | .0365 | .0341 | .0327 | .0308 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.92 | .967 | .389 | 9.75 | .0525 | .0501 | .0482 | .0468 | .0544 | .0528 | .0502 | .0487 | |
| .340 | 1.09 | .981 | .320 | 10.01 | .0434 | .0409 | .0389 | .0374 | .0455 | .0429 | .0410 | .0394 | |
| .380 | 1.74 | .987 | .374 | 10.32 | .0373 | .0346 | .0326 | .0311 | .0393 | .0367 | .0347 | .0330 | |
| .420 | 1.64 | .984 | 0.000 | 10.07 | .0336 | .0307 | .0286 | .0269 | .0356 | .0324 | .0306 | .0289 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.67 | .964 | .294 | 11.02 | .0500 | .0473 | .0452 | .0435 | .0522 | .0495 | .0474 | .0457 | |
| .340 | 1.06 | .985 | .192 | 11.48 | .0414 | .0389 | .0367 | .0349 | .0440 | .0412 | .0390 | .0372 | |
| .380 | 1.29 | .980 | 0.000 | 11.11 | .0357 | .0328 | .0305 | .0286 | .0380 | .0350 | .0327 | .0309 | |
| .420 | 1.17 | .977 | 0.000 | 10.41 | .0313 | .0282 | .0259 | .0240 | .0334 | .0307 | .0280 | .0261 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.50 | .965 | .190 | 12.46 | .0475 | .0444 | .0420 | .0401 | .0501 | .0469 | .0445 | .0426 | |
| .340 | 1.08 | .982 | .093 | 12.80 | .0394 | .0366 | .0341 | .0321 | .0423 | .0391 | .0366 | .0347 | |
| .380 | 1.26 | .983 | 0.000 | 12.31 | .0335 | .0307 | .0278 | .0258 | .0360 | .0329 | .0303 | .0283 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.7 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.37 | .971 | .088 | 13.97 | .0444 | .0413 | .0386 | .0364 | .0476 | .0441 | .0414 | .0392 | |
| .340 | 1.03 | .989 | .022 | 14.10 | .0376 | .0341 | .0313 | .0292 | .0405 | .0369 | .0342 | .0320 | |
| .380 | 1.24 | .985 | 0.000 | 13.08 | .0304 | .0274 | .0248 | .0228 | .0334 | .0300 | .0274 | .0254 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.20 | .978 | 0.000 | 15.40 | .0421 | .0383 | .0352 | .0328 | .0452 | .0414 | .0387 | .0359 | |
| .340 | 1.02 | 1.000 | 0.000 | 15.41 | .0354 | .0316 | .0286 | .0262 | .0385 | .0347 | .0317 | .0293 | |
| .380 | 1.20 | .997 | 0.100 | 13.70 | .0277 | .0242 | .0216 | .0194 | .0304 | .0270 | .0247 | .0222 | |

RESISTANCE DATA SERIES 65-B MODEL 5239

LP/BOX = 4.69 BEARISE ANGLE = 16.3 DEG FNO = 1.26

WEIGHT = LIFT (LR, SEAWATER) (1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.84 | .916 | .614 | 7.71 | .1064 | .1137 | .1016 | .1000 | .1046 | .1060 | .1039 | .1022 | |
| .340 | 7.00 | .969 | .720 | 7.76 | .0475 | .0649 | .0528 | .0411 | .0498 | .0471 | .0451 | .0434 | |
| .380 | 1.62 | .986 | 1.000 | 8.10 | .0717 | .0698 | .0666 | .0648 | .0742 | .0714 | .0691 | .0674 | |
| .420 | .56 | 1.000 | 1.000 | 8.36 | .0641 | .0617 | .0589 | .0571 | .0667 | .0648 | .0615 | .0597 | |
| .460 | -.27 | 1.000 | .865 | 8.03 | .0621 | .0597 | .0570 | .0553 | .0646 | .0614 | .0596 | .0578 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.54 | .924 | .479 | 7.68 | .0943 | .0914 | .0892 | .0874 | .0966 | .0938 | .0916 | .0898 | |
| .340 | 2.36 | .978 | .769 | 8.61 | .0762 | .0732 | .0708 | .0689 | .0789 | .0754 | .0734 | .0715 | |
| .380 | 1.20 | .981 | 1.000 | 9.27 | .0616 | .0584 | .0559 | .0539 | .0645 | .0613 | .0588 | .0569 | |
| .420 | .13 | .998 | .658 | 8.22 | .0543 | .0513 | .0490 | .0472 | .0569 | .0539 | .0516 | .0498 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.00 | .949 | .397 | 8.24 | .0862 | .0831 | .0807 | .0789 | .0887 | .0857 | .0833 | .0814 | |
| .340 | 1.07 | .995 | .606 | 9.17 | .0677 | .0640 | .0614 | .0593 | .0701 | .0669 | .0643 | .0622 | |
| .380 | .90 | 1.000 | .690 | 9.1 | .0546 | .0512 | .0485 | .0463 | .0576 | .0542 | .0515 | .0493 | |
| .420 | -.03 | .996 | .180 | 9.06 | .0499 | .0464 | .0437 | .0416 | .0527 | .0492 | .0465 | .0444 | |

LP/V(1/3) = 8.0 LP (FT) = 20.6 43.1 92.8 200.0 20.6 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.47 | .960 | .355 | 9.12 | .0780 | .0747 | .0721 | .0700 | .0809 | .0775 | .0749 | .0729 | |
| .340 | 1.50 | 1.000 | .760 | 9.94 | .0609 | .0573 | .0545 | .0522 | .0640 | .0604 | .0576 | .0553 | |
| .380 | .69 | 1.000 | .243 | 10.32 | .0507 | .0468 | .0438 | .0415 | .0539 | .0501 | .0471 | .0447 | |
| .420 | -.13 | .994 | 0.000 | 10.21 | .0474 | .0433 | .0402 | .0377 | .0506 | .0465 | .0434 | .0409 | |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.08 | .963 | .144 | 10.17 | .0718 | .0675 | .0646 | .0627 | .0744 | .0707 | .0678 | .0654 | |
| .340 | 1.27 | 1.100 | .169 | 11.00 | .0566 | .0525 | .0493 | .0460 | .0600 | .0559 | .0524 | .0502 | |
| .380 | .55 | 1.000 | .378 | 11.75 | .0477 | .0434 | .0400 | .0373 | .0512 | .0469 | .0435 | .0409 | |
| .420 | -.21 | .970 | 0.000 | 11.17 | .0452 | .0407 | .0372 | .0345 | .0487 | .0442 | .0407 | .0378 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.80 | .962 | .149 | 11.60 | .0659 | .0616 | .0582 | .0566 | .0695 | .0652 | .0619 | .0592 | |
| .340 | 1.17 | 1.000 | .352 | 12.40 | .0532 | .0485 | .0469 | .0420 | .0571 | .0524 | .0488 | .0459 | |
| .380 | .68 | 1.000 | 0.000 | 12.69 | .0457 | .0405 | .0360 | .0336 | .0492 | .0444 | .0407 | .0377 | |
| .420 | -.20 | .955 | 0.000 | 11.81 | .0431 | .0385 | .0349 | .0320 | .0487 | .0421 | .0385 | .0356 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.7 110.2 237.4 23.7 51.7 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.60 | .952 | .761 | 12.72 | .0615 | .0565 | .0526 | .0495 | .0656 | .0606 | .0569 | .0537 | |
| .340 | .99 | 1.000 | 0.000 | 13.05 | .0504 | .0451 | .0410 | .0378 | .0547 | .0495 | .0454 | .0422 | |
| .380 | .60 | 1.000 | 0.000 | 13.62 | .0428 | .0377 | .0336 | .0304 | .0471 | .0419 | .0379 | .0347 | |
| .420 | -.37 | .936 | 0.000 | 11.20 | .0406 | .0362 | .0328 | .0291 | .0441 | .0397 | .0363 | .0336 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.50 | .958 | .006 | 15.10 | .0585 | .0528 | .0484 | .0440 | .0632 | .0578 | .0531 | .0496 | |
| .340 | .93 | 1.000 | 0.000 | 15.57 | .0474 | .0420 | .0374 | .0338 | .0524 | .0468 | .0427 | .0387 | |
| .380 | .76 | 1.000 | 0.000 | 14.71 | .0400 | .0346 | .0303 | .0269 | .0466 | .0401 | .0349 | .0315 | |
| .420 | -.48 | .906 | .046 | 9.96 | .0373 | .0315 | .0266 | .0233 | .0404 | .0366 | .0337 | .0314 | |

RESISTANCE DATA SERIES 65-B MODEL 5239

LP/SPX = 4.69 DEPARTURE ANGLE = 16.3 DEG FND = 1.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.68 | .845 | .531 | 6.62 | .1176 | .1141 | .1114 | .1092 | .1206 | .1171 | .1144 | .1122 | |
| .340 | 3.19 | .957 | .674 | 7.54 | .0956 | .0915 | .0886 | .0862 | .0987 | .0949 | .0919 | .0896 | |
| .380 | 2.19 | .987 | .895 | 7.44 | .0856 | .0818 | .0787 | .0763 | .0891 | .0853 | .0823 | .0798 | |
| .420 | .42 | .957 | .974 | 8.10 | .0715 | .0677 | .0646 | .0621 | .0753 | .0713 | .0682 | .0657 | |

LP/V(1/3) = 17.5 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.82 | .874 | .505 | 7.47 | .1056 | .1017 | .0987 | .0963 | .1089 | .1051 | .1021 | .0996 | |
| .340 | 2.56 | .972 | .760 | 8.50 | .0883 | .0841 | .0808 | .0782 | .0921 | .0879 | .0847 | .0820 | |
| .380 | 1.50 | .940 | 1.000 | 9.14 | .0775 | .0732 | .0698 | .0670 | .0817 | .0773 | .0739 | .0711 | |
| .420 | .67 | .941 | .890 | 8.92 | .0720 | .0677 | .0643 | .0616 | .0760 | .0717 | .0683 | .0656 | |
| .460 | -.37 | 1.010 | .006 | 7.15 | .0692 | .0653 | .0622 | .0597 | .0724 | .0685 | .0654 | .0629 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.17 | .916 | .474 | 8.04 | .0961 | .0920 | .0888 | .0863 | .0997 | .0956 | .0924 | .0899 | |
| .340 | 2.17 | .975 | .623 | 9.02 | .0815 | .0770 | .0735 | .0707 | .0855 | .0811 | .0776 | .0748 | |
| .380 | 1.27 | .944 | .638 | 8.67 | .0714 | .0671 | .0634 | .0605 | .0761 | .0714 | .0677 | .0648 | |
| .420 | .43 | .946 | .406 | 9.40 | .0661 | .0614 | .0576 | .0546 | .0784 | .0736 | .0699 | .0669 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.70 | .924 | .391 | 8.66 | .0907 | .0863 | .0829 | .0801 | .0946 | .0902 | .0868 | .0840 | |
| .340 | 1.74 | .941 | .573 | 9.65 | .0760 | .0711 | .0673 | .0642 | .0803 | .0754 | .0716 | .0686 | |
| .380 | 1.03 | .947 | .744 | 10.23 | .0667 | .0615 | .0574 | .0541 | .0713 | .0661 | .0620 | .0587 | |
| .420 | .27 | .944 | .090 | 10.35 | .0623 | .0569 | .0525 | .0491 | .0669 | .0615 | .0572 | .0538 | |

LP/V(1/3) = 11.9 LP (FT) = 21.2 45.8 98.6 212.0 21.2 45.8 98.6 212.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.36 | .933 | .244 | 9.60 | .0847 | .0798 | .0759 | .0724 | .0890 | .0841 | .0802 | .0771 | |
| .340 | 1.50 | .992 | .143 | 10.83 | .0703 | .0648 | .0605 | .0571 | .0751 | .0696 | .0653 | .0621 | |
| .380 | .85 | 1.010 | .046 | 11.24 | .0619 | .0560 | .0514 | .0478 | .0670 | .0611 | .0565 | .0529 | |
| .420 | .14 | .997 | 0.000 | 11.46 | .0589 | .0527 | .0479 | .0444 | .0641 | .0579 | .0531 | .0492 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.00 | .940 | .110 | 10.95 | .0789 | .0732 | .0688 | .0652 | .0839 | .0782 | .0737 | .0702 | |
| .340 | 1.31 | 1.001 | .000 | 11.99 | .0656 | .0593 | .0544 | .0504 | .0710 | .0647 | .0598 | .0558 | |
| .380 | .71 | 1.000 | 0.000 | 12.59 | .0574 | .0511 | .0460 | .0419 | .0634 | .0568 | .0516 | .0475 | |
| .420 | 0.00 | .947 | 0.000 | 12.32 | .0561 | .0495 | .0443 | .0402 | .0617 | .0550 | .0499 | .0457 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.7 110.2 237.4 23.7 51.7 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.78 | 1.006 | 0.000 | 12.70 | .0733 | .0667 | .0615 | .0574 | .0790 | .0724 | .0672 | .0631 | |
| .340 | .61 | 1.000 | 0.000 | 13.65 | .0611 | .0540 | .0484 | .0439 | .0672 | .0601 | .0545 | .0501 | |
| .380 | -.11 | .970 | 0.000 | 13.82 | .0539 | .0466 | .0401 | .0364 | .0601 | .0528 | .0471 | .0426 | |
| .420 | | | 0.000 | 12.59 | .0536 | .0469 | .0417 | .0376 | .0592 | .0526 | .0474 | .0432 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 57.8 116.0 249.9 25.0 57.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.59 | .947 | .006 | 14.76 | .0679 | .0603 | .0543 | .0495 | .0745 | .0669 | .0609 | .0561 | |
| .340 | 1.06 | 1.000 | 0.000 | 15.48 | .0570 | .0490 | .0427 | .0374 | .0640 | .0568 | .0497 | .0447 | |
| .380 | .52 | 1.000 | 0.000 | 15.09 | .0504 | .0426 | .0365 | .0316 | .0571 | .0494 | .0433 | .0384 | |
| .420 | -.23 | .947 | .022 | 11.85 | .0526 | .0459 | .0411 | .0373 | .0574 | .0512 | .0444 | .0426 | |

RESISTANCE DATA SERIES 65-0 MODEL 523s

LD/DPK = 4.69 DEGREE ANGLE = 16.1 DEG FNV = 1.75

WFLIGHT = LIFT (L₀, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 4.65 | .911 | .527 | 6.50 | .1225 | .1180 | .1145 | .1116 | .1265 | .1220 | .1184 | .1155 | |
| .340 | 3.24 | .948 | .648 | 7.51 | .1045 | .0994 | .0955 | .0923 | .1091 | .1040 | .1001 | .0969 | |
| .380 | 2.12 | .996 | .847 | 8.07 | .0944 | .0891 | .0850 | .0818 | .0993 | .0941 | .0900 | .0867 | |
| .420 | .97 | .987 | 1.000 | 7.88 | .0905 | .0855 | .0816 | .0785 | .0953 | .0903 | .0864 | .0833 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 3.05 | .947 | .494 | 7.78 | .1131 | .1080 | .1040 | .1009 | .1176 | .1125 | .1085 | .1054 | |
| .340 | 2.63 | .965 | .721 | 8.60 | .0980 | .0924 | .0880 | .0844 | .1032 | .0976 | .0932 | .0897 | |
| .380 | 1.66 | .979 | .986 | 9.07 | .0892 | .0834 | .0789 | .0753 | .0947 | .0890 | .0845 | .0809 | |
| .420 | .83 | .979 | .910 | 9.09 | .0844 | .0791 | .0745 | .0709 | .0904 | .0846 | .0801 | .0764 | |
| .460 | -.02 | .996 | .287 | 8.67 | .0845 | .0785 | .0738 | .0700 | .0898 | .0838 | .0791 | .0753 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 3.17 | .949 | .645 | 8.34 | .1077 | .1021 | .0977 | .0902 | .1088 | .1032 | .0988 | .0953 | |
| .340 | 2.14 | .957 | .674 | 9.17 | .0913 | .0854 | .0807 | .0770 | .0970 | .0910 | .0864 | .0826 | |
| .380 | 1.39 | .976 | .727 | 9.54 | .0853 | .0792 | .0744 | .0705 | .0911 | .0850 | .0802 | .0764 | |
| .420 | .78 | .990 | .622 | 9.67 | .0832 | .0769 | .0720 | .0681 | .0881 | .0820 | .0771 | .0730 | |
| .460 | .15 | 1.000 | .301 | 9.49 | .0845 | .0780 | .0730 | .0690 | .0903 | .0838 | .0788 | .0748 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 2.69 | .949 | .442 | 8.92 | .0979 | .0920 | .0874 | .0800 | .1034 | .0975 | .0928 | .0891 | |
| .340 | 1.87 | .956 | .453 | 9.74 | .0817 | .0753 | .0702 | .0722 | .0936 | .0872 | .0822 | .0782 | |
| .380 | 1.19 | .978 | .407 | 10.14 | .0829 | .0753 | .0700 | .0658 | .0882 | .0815 | .0762 | .0720 | |
| .420 | .56 | .980 | .274 | 10.27 | .0786 | .0717 | .0663 | .0620 | .0849 | .0780 | .0726 | .0683 | |
| .460 | -.29 | .991 | 0.000 | 9.69 | .0790 | .0719 | .0665 | .0621 | .0849 | .0779 | .0724 | .0680 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 90.6 212.5 21.2 45.8 90.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 2.31 | .952 | .303 | 9.70 | .0928 | .0863 | .0812 | .0771 | .0987 | .0922 | .0871 | .0830 | |
| .340 | 1.59 | .961 | .220 | 10.63 | .0831 | .0760 | .0703 | .0658 | .0896 | .0825 | .0768 | .0724 | |
| .380 | 1.01 | .977 | .179 | 11.14 | .0777 | .0696 | .0636 | .0589 | .0840 | .0764 | .0704 | .0657 | |
| .420 | .36 | .991 | .036 | 11.27 | .0732 | .0654 | .0592 | .0543 | .0801 | .0723 | .0661 | .0612 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 2.02 | .910 | .146 | 10.94 | .0865 | .0790 | .0732 | .0685 | .0932 | .0857 | .0799 | .0752 | |
| .340 | 1.40 | .973 | .043 | 12.07 | .0768 | .0686 | .0621 | .0569 | .0842 | .0759 | .0694 | .0643 | |
| .380 | .89 | 1.000 | 0.000 | 12.61 | .0711 | .0624 | .0555 | .0501 | .0789 | .0701 | .0632 | .0578 | |
| .420 | .27 | 1.000 | 0.000 | 12.75 | .0684 | .0595 | .0525 | .0469 | .0762 | .0673 | .0603 | .0547 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 118.2 237.4 23.7 51.2 118.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 1.80 | .973 | .951 | 12.72 | .0827 | .0740 | .0671 | .0617 | .0905 | .0818 | .0749 | .0695 | |
| .340 | 1.27 | .956 | 0.000 | 13.74 | .0734 | .0639 | .0565 | .0506 | .0818 | .0723 | .0649 | .0590 | |
| .380 | .90 | 1.009 | 0.000 | 14.19 | .0676 | .0578 | .0501 | .0440 | .0763 | .0665 | .0588 | .0527 | |
| .420 | .17 | 1.000 | 0.000 | 13.87 | .0652 | .0556 | .0481 | .0421 | .0737 | .0641 | .0566 | .0506 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.3 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | W(2/3) | | | | | | | | | |
| .300 | 1.64 | .937 | .014 | 14.07 | .0779 | .0678 | .0599 | .0535 | .0870 | .0769 | .0689 | .0626 | |
| .340 | 1.17 | .946 | 0.000 | 15.70 | .0687 | .0581 | .0497 | .0430 | .0783 | .0677 | .0593 | .0526 | |
| .380 | .72 | 1.030 | 0.000 | 15.87 | .0625 | .0517 | .0433 | .0365 | .0722 | .0615 | .0530 | .0462 | |
| .420 | 0.01 | .980 | 0.000 | 14.25 | .0610 | .0513 | .0437 | .0377 | .0697 | .0601 | .0525 | .0464 | |

RESISTANCE DATA SERIES 65-B MODFL 5239

LP/DPX = 4.00 DRAISE ANGLE = 16.3 DEG FNU = 2.00

HEIGHT = LIFT (LN, SEAWAY) = 1000 1000 10000 100000 1000 1000 10000 100000

LP/V(1/3) = 6.4 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.71 | .765 | .445 | 6.00 | .1129 | .1274 | .1231 | .1197 | .1376 | .1322 | .1279 | .1245 |
| .340 | 5.21 | .939 | .571 | 7.13 | .1146 | .1084 | .1036 | .0997 | .1287 | .1141 | .1093 | .1054 |
| .380 | 5.74 | .999 | .706 | 8.03 | .1146 | .0979 | .0927 | .0885 | .1119 | .1044 | .0991 | .0949 |
| .420 | 6.07 | .999 | 1.000 | 8.62 | .0999 | .0930 | .0876 | .0832 | .1068 | .0999 | .0945 | .0901 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.83 | .823 | .431 | 6.88 | .1231 | .1170 | .1123 | .1085 | .1286 | .1225 | .1178 | .1140 |
| .340 | 4.32 | .960 | .568 | 8.27 | .1342 | .1013 | .0959 | .0915 | .1148 | .1070 | .1025 | .0981 |
| .380 | 4.70 | .978 | .987 | 8.94 | .0998 | .0926 | .0869 | .0824 | .1069 | .0997 | .0941 | .0895 |
| .420 | 4.93 | .979 | 1.000 | 9.46 | .0970 | .0895 | .0835 | .0788 | .1046 | .0971 | .0911 | .0863 |
| .460 | 5.12 | .990 | .768 | 10.04 | .1003 | .0921 | .0856 | .0804 | .1043 | .1001 | .0936 | .0884 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.17 | .861 | .424 | 8.35 | .1139 | .1066 | .1009 | .0964 | .1205 | .1133 | .1076 | .1031 |
| .340 | 3.62 | .946 | .698 | 9.21 | .1017 | .0941 | .0882 | .0834 | .1100 | .1025 | .0965 | .0908 |
| .380 | 4.12 | .977 | .818 | 9.66 | .0973 | .0896 | .0834 | .0785 | .1050 | .0973 | .0911 | .0862 |
| .420 | 4.52 | .998 | .790 | 10.03 | .0973 | .0892 | .0828 | .0777 | .1051 | .0972 | .0909 | .0857 |
| .460 | 4.85 | 1.000 | .632 | 10.49 | .1003 | .0917 | .0850 | .0796 | .1086 | .1001 | .0933 | .0879 |
| .500 | 5.16 | 1.000 | .175 | 11.19 | .1094 | .0997 | .0920 | .0859 | .1184 | .1086 | .1010 | .0949 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.65 | .871 | .450 | 9.79 | .1087 | .1008 | .0945 | .0895 | .1167 | .1081 | .1020 | .0970 |
| .340 | 3.11 | .949 | .583 | 10.83 | .1006 | .0924 | .0859 | .0807 | .1086 | .1004 | .0939 | .0887 |
| .380 | 3.54 | .987 | .594 | 11.28 | .0966 | .0883 | .0817 | .0764 | .1049 | .0965 | .0904 | .0846 |
| .420 | 3.89 | .996 | .496 | 10.78 | .0944 | .0858 | .0791 | .0737 | .1027 | .0941 | .0874 | .0820 |
| .460 | 4.17 | .998 | .099 | 10.27 | .0941 | .0850 | .0779 | .0722 | .1021 | .0932 | .0861 | .0804 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.74 | .842 | .378 | 10.26 | .1063 | .0976 | .0908 | .0857 | .1145 | .1058 | .0990 | .0935 |
| .340 | 3.19 | .957 | .385 | 10.84 | .0991 | .0901 | .0830 | .0773 | .1078 | .0988 | .0917 | .0860 |
| .380 | 3.62 | .988 | .381 | 10.95 | .0930 | .0839 | .0767 | .0709 | .1014 | .0926 | .0854 | .0797 |
| .420 | 3.74 | .986 | .184 | 10.74 | .0830 | .0750 | .0680 | .0624 | .0922 | .0833 | .0762 | .0706 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.07 | .946 | .237 | 11.30 | .1035 | .0938 | .0862 | .0807 | .1129 | .1029 | .0953 | .0897 |
| .340 | 2.47 | .968 | .145 | 11.94 | .0957 | .0856 | .0776 | .0710 | .1051 | .0951 | .0871 | .0808 |
| .380 | 2.86 | .986 | .128 | 12.02 | .0970 | .0877 | .0796 | .0731 | .1076 | .0973 | .0892 | .0827 |
| .420 | 3.00 | .935 | .231 | 10.68 | .0746 | .0651 | .0577 | .0518 | .0931 | .0837 | .0763 | .0704 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.79 | .914 | .099 | 12.76 | .0991 | .0881 | .0796 | .0725 | .1097 | .0983 | .0906 | .0827 |
| .340 | 2.29 | .980 | .076 | 13.45 | .0913 | .0797 | .0705 | .0632 | .1020 | .0904 | .0813 | .0740 |
| .380 | 2.83 | 1.000 | 0.000 | 13.58 | .0843 | .0725 | .0633 | .0559 | .0952 | .0834 | .0742 | .0668 |
| .420 | 3.11 | .970 | 0.000 | 12.47 | .0749 | .0641 | .0556 | .0488 | .0849 | .0740 | .0655 | .0587 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP (FEET) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.63 | .932 | .006 | 14.56 | .0974 | .0810 | .0710 | .0630 | .1055 | .0924 | .0824 | .0745 |
| .340 | 1.77 | .992 | 0.000 | 15.33 | .0887 | .0734 | .0629 | .0546 | .0989 | .0856 | .0752 | .0669 |
| .380 | 1.85 | 1.000 | 0.000 | 15.51 | .0812 | .0678 | .0572 | .0488 | .0916 | .0807 | .0696 | .0612 |
| .420 | 1.23 | 1.000 | 0.000 | 14.57 | .0754 | .0632 | .0533 | .0454 | .0874 | .0749 | .0650 | .0571 |

RESISTANCE DATA SERIES 60-9 MODEL 5239

LP/RPY = 4.69

OF ANCHISE ANGLE = 15.3 DEG

PNV = 2.50

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.45 | .615 | .407 | 5.07 | .1611 | .1540 | .1465 | .1441 | .1674 | .1604 | .1548 | .151 |
| .340 | 3.80 | .841 | .464 | 6.44 | .1475 | .1369 | .1322 | .1268 | .1556 | .1470 | .1403 | .1349 |
| .380 | 2.33 | 1.000 | .674 | 7.76 | .1384 | .1267 | .1210 | .1149 | .1481 | .1384 | .1307 | .1246 |
| .420 | 1.42 | .997 | 1.000 | 9.25 | .1373 | .1262 | .1174 | .1103 | .1488 | .1377 | .1290 | .1219 |
| .460 | 1.45 | .999 | 1.000 | 9.20 | .1372 | .1262 | .1175 | .1104 | .1487 | .1377 | .1290 | .1219 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.27 | .695 | .367 | 6.11 | .1475 | .1388 | .1320 | .1285 | .1555 | .1468 | .1400 | .1345 |
| .340 | 2.84 | .994 | .517 | 7.88 | .1384 | .1279 | .1200 | .1136 | .1479 | .1378 | .1298 | .1235 |
| .380 | 1.91 | .968 | .868 | 8.78 | .1332 | .1226 | .1141 | .1074 | .1442 | .1335 | .1251 | .1183 |
| .420 | 1.58 | .970 | 1.000 | 10.02 | .1294 | .1175 | .1092 | .1006 | .1419 | .1301 | .1207 | .1131 |

LP/W(1/3) = 1.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.45 | .754 | .320 | 7.38 | .1398 | .1301 | .1224 | .1163 | .1489 | .1392 | .1315 | .1254 |
| .340 | 2.21 | .911 | .616 | 8.72 | .1295 | .1187 | .1101 | .1033 | .1404 | .1295 | .1210 | .1142 |
| .380 | 1.44 | .978 | .808 | 9.74 | .1267 | .1150 | .1058 | .0983 | .1389 | .1277 | .1179 | .1105 |
| .420 | 1.90 | 1.000 | .826 | 10.64 | .1282 | .1175 | .1074 | .0993 | .1436 | .1308 | .1207 | .1126 |
| .460 | 1.40 | 1.010 | .704 | 11.81 | .1292 | .1250 | .1137 | .1046 | .1539 | .1397 | .1284 | .1194 |
| .500 | -1.27 | 1.000 | .259 | 14.75 | .1615 | .1439 | .1300 | .1189 | .1787 | .1611 | .1472 | .1361 |

LP/W(1/3) = 4.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.81 | .794 | .449 | 8.75 | .1352 | .1244 | .1150 | .1090 | .1457 | .1348 | .1263 | .1194 |
| .340 | 1.86 | .929 | .598 | 9.89 | .1279 | .1158 | .1062 | .0985 | .1402 | .1281 | .1195 | .1104 |
| .380 | 1.22 | .998 | .620 | 10.96 | .1254 | .1126 | .1021 | .0936 | .1395 | .1263 | .1158 | .1073 |
| .420 | 1.66 | 1.051 | .669 | 11.88 | .1277 | .1130 | .1015 | .0927 | .1475 | .1279 | .1163 | .1070 |
| .460 | 1.05 | .992 | 0.800 | 12.99 | .1259 | .1182 | .1043 | .0932 | .1521 | .1344 | .1205 | .1094 |

LP/W(1/3) = 4.5 LP (FT) = 21.2 45.8 99.6 212.5 21.2 45.8 99.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.38 | .821 | .408 | 9.60 | .1371 | .1199 | .1103 | .1026 | .1441 | .1319 | .1223 | .1146 |
| .340 | 1.68 | .949 | .581 | 11.35 | .1271 | .1133 | .1023 | .0935 | .1413 | .1274 | .1165 | .1077 |
| .380 | 1.95 | 1.000 | .799 | SC.40 | .1230 | .1077 | .0957 | .0860 | .1385 | .1232 | .1112 | .1015 |
| .420 | 1.24 | .969 | 0.800 | 12.86 | .1180 | .1007 | .0872 | .0763 | .1341 | .1168 | .1037 | .0924 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.69 | .844 | .385 | 11.07 | .1319 | .1172 | .1062 | .0975 | .1448 | .1310 | .1201 | .1113 |
| .340 | 1.37 | .971 | .399 | 12.07 | .1260 | .1101 | .0975 | .0874 | .1423 | .1263 | .1138 | .1036 |
| .380 | 1.71 | 1.000 | .216 | 13.81 | .1192 | .1016 | .0881 | .0771 | .1366 | .1192 | .1055 | .0945 |
| .420 | 0.03 | .914 | 0.000 | 13.28 | .1063 | .0868 | .0716 | .0595 | .1279 | .1034 | .0802 | .0761 |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.85 | .879 | .374 | 12.88 | .1293 | .1135 | .1009 | .0909 | .1453 | .1294 | .1169 | .1069 |
| .340 | 1.17 | .996 | .330 | 14.03 | .1249 | .1051 | .0914 | .0794 | .1427 | .1245 | .1101 | .0985 |
| .380 | 1.61 | 1.000 | .150 | 15.58 | .1183 | .0888 | .0835 | .0712 | .1377 | .1183 | .1029 | .0906 |
| .420 | 1.08 | .954 | 0.000 | 16.80 | .1110 | .0910 | .0752 | .0626 | .1295 | .1094 | .0937 | .0811 |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 2119.9 25.0 53.8 116.0 749.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.65 | .911 | .251 | 15.74 | .1279 | .1097 | .0953 | .0837 | .1464 | .1281 | .1137 | .1022 |
| .340 | 1.01 | 1.000 | .227 | 16.87 | .1242 | .1037 | .0874 | .0744 | .1453 | .1245 | .1085 | .0955 |
| .380 | 1.52 | 1.030 | .145 | 17.26 | .1239 | .1017 | .0849 | .0714 | .1445 | .1233 | .1065 | .0930 |
| .420 | 1.15 | 1.000 | .033 | 18.55 | .1243 | .1023 | .0858 | .0725 | .1440 | .1230 | .1065 | .0932 |
| .460 | -1.15 | .974 | 0.000 | 15.77 | .1245 | .1043 | .0885 | .0758 | .1435 | .1233 | .1075 | .0948 |

RESISTANCE DATA SERIES 65-R MODEL 5212

LP/DPX = 4.60 DEPARTURE ANGLE = 16.3 DEG FWD = 2.01

HEIGHT = LIFT (L9, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.0 LP (FT) = 16.7 35.0 75.4 162.5 16.7 35.0 75.4 162.5

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.20 | .640 | .344 | 4.70 | .1488 | .1797 | .1125 | .1264 | .1573 | .1482 | .1410 | .1352 |
| .340 | 7.59 | .867 | .577 | 6.77 | .1429 | .1306 | .1709 | .1331 | .1559 | .1428 | .1331 | .1253 |
| .380 | 1.25 | .952 | 1.000 | 8.62 | .1550 | .1404 | .1204 | .1105 | .1905 | .1559 | .1444 | .1350 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .575 | .312 | 5.48 | .1609 | .1501 | .1417 | .1350 | .1707 | .1600 | .1516 | .1448 |
| .340 | 3.39 | .705 | .371 | 6.98 | .1666 | .1577 | .1435 | .1354 | .1742 | .1667 | .1561 | .1479 |
| .380 | 2.33 | .947 | .610 | 8.42 | .1719 | .1573 | .1457 | .1364 | .1870 | .1724 | .1609 | .1516 |
| .420 | 1.34 | .991 | 1.000 | 9.83 | .1724 | .1564 | .1436 | .1334 | .1991 | .1741 | .1613 | .1510 |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.79 | .637 | .269 | 6.47 | .1634 | .1510 | .1413 | .1336 | .1743 | .1624 | .1529 | .1451 |
| .340 | 3.00 | .758 | .348 | 7.96 | .1705 | .1568 | .1445 | .1357 | .1849 | .1703 | .1588 | .1496 |
| .380 | 2.13 | .940 | .559 | 9.51 | .1771 | .1605 | .1475 | .1371 | .1941 | .1776 | .1646 | .1542 |
| .420 | 1.21 | 1.000 | .950 | 10.67 | .1772 | .1599 | .1461 | .1350 | .1964 | .1791 | .1653 | .1542 |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 97.8 200.0 20.0 43.1 97.8 200.0

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.28 | .564 | .240 | 7.47 | .1670 | .1530 | .1419 | .1331 | .1804 | .1654 | .1553 | .1465 |
| .340 | 2.40 | .831 | .416 | 9.12 | .1723 | .1562 | .1434 | .1332 | .1887 | .1726 | .1598 | .1495 |
| .380 | 1.71 | .945 | .544 | 10.69 | .1777 | .1596 | .1453 | .1338 | .1949 | .1789 | .1646 | .1531 |
| .420 | .97 | 1.000 | .556 | 12.20 | .1885 | .1682 | .1520 | .1390 | .2106 | .1902 | .1740 | .1609 |
| .460 | .78 | 1.031 | .253 | 13.62 | .2065 | .1827 | .1619 | .1487 | .2319 | .2072 | .1884 | .1732 |
| .500 | -.27 | .944 | 0.000 | 14.01 | .2275 | .1975 | .1739 | .1562 | .2543 | .2243 | .2007 | .1820 |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 99.6 212.7 21.2 45.8 99.6 212.5

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.75 | .716 | .267 | 8.44 | .1675 | .1517 | .1397 | .1294 | .1828 | .1671 | .1547 | .1448 |
| .340 | 2.00 | .898 | .413 | 10.54 | .1711 | .1520 | .1385 | .1269 | .1901 | .1719 | .1574 | .1459 |
| .380 | 1.32 | 1.000 | .440 | 12.31 | .1811 | .1603 | .1438 | .1306 | .2033 | .1825 | .1660 | .1527 |
| .420 | .75 | 1.000 | .313 | 13.72 | .1943 | .1750 | .1564 | .1415 | .2230 | .1997 | .1811 | .1662 |
| .460 | .30 | 1.119 | .079 | 14.73 | .2191 | .1930 | .1725 | .1559 | .2456 | .2195 | .1990 | .1824 |
| .500 | -.00 | 1.000 | 0.000 | 15.33 | .2366 | .2081 | .1856 | .1676 | .2642 | .2387 | .2137 | .1952 |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.30 | .772 | .282 | 10.10 | .1663 | .1483 | .1340 | .1228 | .1845 | .1665 | .1527 | .1408 |
| .340 | 1.61 | .944 | .350 | 12.87 | .1725 | .1513 | .1345 | .1218 | .1947 | .1735 | .1567 | .1432 |
| .380 | 1.02 | 1.000 | .289 | 13.86 | .1832 | .1595 | .1400 | .1259 | .2081 | .1845 | .1650 | .1508 |
| .420 | .51 | 1.000 | .100 | 14.50 | .1943 | .1727 | .1527 | .1380 | .2241 | .1988 | .1788 | .1627 |
| .460 | .00 | 1.000 | 1.000 | 14.64 | .2146 | .1879 | .1668 | .1499 | .2455 | .2138 | .1928 | .1759 |
| .500 | -.22 | .978 | 0.000 | 13.97 | .2292 | .2005 | .1779 | .1600 | .2547 | .2256 | .2031 | .1851 |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.97 | .827 | .274 | 12.05 | .1672 | .1461 | .1294 | .1159 | .1888 | .1677 | .1510 | .1375 |
| .340 | 1.37 | .940 | .270 | 14.25 | .1735 | .1493 | .1300 | .1145 | .1992 | .1749 | .1557 | .1402 |
| .380 | .77 | 1.000 | .180 | 15.00 | .1813 | .1555 | .1353 | .1189 | .2083 | .1826 | .1627 | .1459 |
| .420 | .27 | 1.000 | 0.00 | 14.26 | .1904 | .1649 | .1448 | .1287 | .2140 | .1906 | .1705 | .1547 |
| .460 | -.17 | .930 | 0.000 | 12.10 | .1999 | .1758 | .1569 | .1410 | .2218 | .1977 | .1784 | .1627 |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.1 116.0 249.9 25.0 53.1 116.0 249.9

| LOG LP (DFG) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.74 | .870 | .246 | 14.16 | .1693 | .1449 | .1255 | .1099 | .1948 | .1704 | .1510 | .1354 |
| .340 | 1.17 | 1.000 | .240 | 16.14 | .1762 | .1490 | .1273 | .1099 | .2052 | .1780 | .1564 | .1390 |
| .380 | .60 | 1.000 | .166 | 16.05 | .1827 | .1544 | .1328 | .1164 | .2115 | .1843 | .1627 | .1453 |
| .420 | .17 | 1.000 | .040 | 14.23 | .1886 | .1637 | .1440 | .1281 | .2142 | .1893 | .1694 | .1527 |
| .460 | -.16 | .925 | 0.000 | 11.51 | .1937 | .1725 | .1558 | .1424 | .2144 | .1932 | .1765 | .1531 |

RESISTANCE DATA SERIES 65-8 MODFL 5239

LP/BPX = 4.69 DEADRISE ANGLE = 16.3 DEG FNO = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | CC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.41 | .788 | .314 | 9.46 | .1636 | .1410 | .1234 | .1091 | .1465 | .1642 | .1465 | .1323 |
| .340 | .79 | .896 | .255 | 11.47 | .1969 | .1701 | .1488 | .1317 | .2250 | .1982 | .1769 | .1598 |
| .380 | .32 | .951 | .134 | 13.47 | .2349 | .2030 | .1777 | .1574 | .2679 | .2360 | .2107 | .1904 |
| .420 | .04 | .968 | .038 | 14.86 | .2627 | .2268 | .1985 | .1757 | .2991 | .2632 | .2349 | .2121 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | CC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.15 | .741 | .282 | 9.96 | .1796 | .1563 | .1376 | .1225 | .2042 | .1806 | .1619 | .1469 |
| .340 | 1.63 | .898 | .304 | 11.71 | .2002 | .1734 | .1521 | .1350 | .2289 | .2021 | .1808 | .1636 |
| .380 | 1.17 | 1.000 | .266 | 13.51 | .2297 | .1992 | .1751 | .1556 | .2627 | .2323 | .2082 | .1887 |
| .420 | .46 | 1.000 | .235 | 15.30 | .2657 | .2314 | .2042 | .1823 | .3031 | .2689 | .2417 | .2197 |
| .460 | .22 | 1.000 | .162 | 16.96 | .3034 | .2657 | .2355 | .2111 | .3453 | .3073 | .2770 | .2527 |
| .500 | | 1.000 | .046 | 18.36 | .3384 | .2969 | .2640 | .2325 | .3833 | .3419 | .3089 | .2824 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | CC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.92 | .795 | .252 | 11.51 | .1933 | .1665 | .1452 | .1281 | .2215 | .1947 | .1734 | .1563 |
| .340 | 1.50 | .927 | .253 | 13.15 | .2177 | .1834 | .1596 | .1405 | .2455 | .2156 | .1918 | .1727 |
| .380 | 1.14 | 1.010 | .233 | 14.44 | .2367 | .2041 | .1783 | .1574 | .2722 | .2395 | .2138 | .1929 |
| .420 | .82 | 1.010 | .194 | 15.61 | .2633 | .2284 | .2006 | .1783 | .3015 | .2666 | .2389 | .2165 |
| .460 | .52 | 1.000 | .137 | 16.55 | .2935 | .2564 | .2269 | .2032 | .3341 | .2970 | .2675 | .2437 |
| .500 | .23 | 1.000 | .059 | 17.38 | .3291 | .2898 | .2585 | .2333 | .3717 | .3323 | .3010 | .2758 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | CC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.74 | .835 | .228 | 13.18 | .2022 | .1719 | .1478 | .1284 | .2345 | .2042 | .1801 | .1607 |
| .340 | 1.37 | .944 | .223 | 14.54 | .2179 | .1850 | .1590 | .1380 | .2535 | .2207 | .1946 | .1736 |
| .380 | .99 | 1.000 | .197 | 14.41 | .2367 | .2017 | .1744 | .1523 | .2739 | .2395 | .2121 | .1900 |
| .420 | .56 | 1.000 | .135 | 14.55 | .2608 | .2259 | .1982 | .1758 | .2989 | .2640 | .2362 | .2139 |
| .460 | 0.00 | .997 | 0.000 | 14.98 | .2985 | .2659 | .2400 | .2192 | .3327 | .3001 | .2742 | .2534 |

RESISTANCE DATA SERIES 65-B MODFL 5239

LP/BPX = 4.69 DEADRISE ANGLE = 16.3 DEG FNO = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.09 | .758 | .147 | 10.74 | .1871 | .1543 | .1283 | .1074 | .2215 | .1887 | .1627 | .1418 |
| .340 | .76 | .806 | .121 | 11.95 | .2120 | .1757 | .1469 | .1237 | .2503 | .2179 | .1851 | .1620 |
| .390 | .30 | .829 | .062 | 13.59 | .2554 | .2138 | .1808 | .1542 | .2989 | .2573 | .2243 | .1977 |
| .420 | -.79 | .731 | 0.000 | 15.79 | .3403 | .2885 | .2476 | .2149 | .3908 | .3390 | .2981 | .2654 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.57 | .830 | .204 | 12.54 | .2244 | .1875 | .1582 | .1346 | .2645 | .2276 | .1983 | .1747 |
| .340 | 1.32 | .901 | .195 | 13.67 | .2415 | .2018 | .1702 | .1448 | .2852 | .2455 | .2139 | .1885 |
| .380 | 1.07 | .961 | .177 | 14.77 | .2620 | .2194 | .1856 | .1582 | .3092 | .2667 | .2328 | .2055 |
| .420 | .73 | 1.000 | .142 | 16.04 | .2932 | .2471 | .2104 | .1808 | .3445 | .2984 | .2617 | .2321 |
| .460 | .25 | 1.000 | .060 | 17.42 | .3476 | .2967 | .2563 | .2237 | .4033 | .3525 | .3120 | .2794 |
| .500 | -.45 | .807 | 0.000 | 18.07 | .4455 | .3874 | .3414 | .3046 | .5033 | .4452 | .3992 | .3624 |

RESISTANCE DATA SERIES 65-Q MODEL 5186

LP/BPX = 3.32

DEADRISE ANGLE = 22.5 DEG

FNO = 1.00

WEIGHT . LIFT (L9, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.9 LP (FT) = 11.2 24.2 52.2 162.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.50 | .963 | .659 | 6.17 | .1120 | .1103 | .1090 | .1080 | .1132 | .1116 | .1107 | .1093 |
| .340 | 4.50 | .993 | .714 | 6.30 | .0862 | .0846 | .0833 | .0822 | .0875 | .0858 | .0845 | .0835 |
| .380 | 2.31 | 1.009 | .520 | 6.23 | .0740 | .0723 | .0710 | .0700 | .0752 | .0736 | .0722 | .0712 |

LP/V(1/3) = 5.0 LP (FT) = 62.5 26.9 50.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.31 | .972 | .529 | 6.72 | .0864 | .0846 | .0832 | .0821 | .0877 | .0859 | .0845 | .0834 |
| .340 | 3.39 | .997 | .356 | 6.52 | .0706 | .0688 | .0674 | .0664 | .0719 | .0701 | .0687 | .0677 |
| .380 | 1.50 | .998 | .307 | 7.27 | .0577 | .0557 | .0541 | .0529 | .0591 | .0571 | .0556 | .0544 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.25 | .972 | .315 | 7.91 | .0748 | .0728 | .0712 | .0700 | .0763 | .0743 | .0727 | .0715 |
| .340 | 2.71 | .984 | .006 | 7.59 | .0607 | .0586 | .0569 | .0556 | .0623 | .0601 | .0584 | .0571 |
| .380 | .81 | .997 | .125 | 7.88 | .0467 | .0445 | .0428 | .0414 | .0482 | .0461 | .0444 | .0430 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.61 | .965 | .052 | 8.74 | .0689 | .0665 | .0647 | .0633 | .0705 | .0681 | .0663 | .0649 |
| .340 | 2.26 | .984 | 0.000 | 8.75 | .0541 | .0525 | .0506 | .0491 | .0558 | .0533 | .0513 | .0498 |
| .380 | .46 | .993 | .048 | 4.41 | .0409 | .0386 | .0368 | .0353 | .0426 | .0403 | .0384 | .0370 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 34.6 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.22 | .963 | 0.000 | 9.33 | .0642 | .0617 | .0597 | .0581 | .0662 | .0635 | .0615 | .0599 |
| .340 | 1.93 | .982 | 0.000 | 9.78 | .0491 | .0463 | .0442 | .0425 | .0510 | .0483 | .0461 | .0445 |
| .380 | .25 | .990 | .007 | 8.67 | .0387 | .0363 | .0345 | .0330 | .0411 | .0381 | .0362 | .0348 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 91.2 175.0 17.5 37.7 91.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.89 | .966 | 0.000 | 10.37 | .0591 | .0562 | .0540 | .0523 | .0611 | .0583 | .0561 | .0544 |
| .340 | 1.67 | .977 | 0.000 | 10.63 | .0464 | .0435 | .0413 | .0395 | .0486 | .0457 | .0434 | .0417 |
| .380 | 0.00 | .993 | 0.000 | 8.44 | .0383 | .0360 | .0342 | .0329 | .0400 | .0377 | .0359 | .0345 |

RESISTANCE DATA SERIES 65-B MODFL 5186

LP/AV = 3.3, DEADWISE ANGLE = 22.5 DEG FNV = 1.25

WFTGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | h. 74 | .969 | .749 | 6.24 | .1626 | .1601 | .1582 | .1567 | .1645 | .1621 | .1601 | .1585 |
| .380 | 4.50 | .994 | .920 | 6.49 | .1769 | .1344 | .1325 | .1310 | .1396 | .1365 | .1345 | .1330 |
| .420 | 2.25 | 1.000 | .405 | 6.24 | .1193 | .1167 | .1147 | .1132 | .1212 | .1187 | .1167 | .1151 |
| .460 | -2.41 | 1.000 | .346 | 5.41 | .1130 | .1107 | .1090 | .1076 | .1145 | .1124 | .1107 | .1093 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 59.0 125.0 12.5 26.9 59.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.50 | .896 | .534 | 6.15 | .1606 | .1582 | .1563 | .1548 | .1625 | .1601 | .1582 | .1567 |
| .340 | 1.10 | .978 | .706 | 6.45 | .1293 | .1266 | .1245 | .1229 | .1315 | .1288 | .1267 | .1251 |
| .380 | 3.77 | .990 | .423 | 6.28 | .1101 | .1076 | .1057 | .1041 | .1121 | .1096 | .1076 | .1061 |
| .420 | 1.50 | 1.000 | .238 | 7.37 | .0968 | .0938 | .0914 | .0895 | .0991 | .0961 | .0937 | .0918 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.00 | .920 | .514 | 7.52 | .1319 | .1290 | .1267 | .1249 | .1343 | .1313 | .1290 | .1272 |
| .340 | 3.96 | .976 | .350 | 7.67 | .1041 | .1010 | .0986 | .0968 | .1065 | .1034 | .1010 | .0991 |
| .380 | 2.50 | .947 | 0.000 | 7.28 | .0882 | .0851 | .0827 | .0808 | .0905 | .0874 | .0849 | .0830 |
| .420 | 0.52 | 1.000 | .130 | 7.61 | .0789 | .0758 | .0734 | .0714 | .0813 | .0782 | .0757 | .0738 |

LP/V(1/3) = 6.1 LP (FT) = 15.0 37.3 69.6 140.0 15.0 37.3 69.6 140.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.64 | .935 | .340 | 8.48 | .1068 | .1034 | .1008 | .0988 | .1094 | .1061 | .1035 | .1014 |
| .340 | 3.27 | .971 | 0.000 | 8.30 | .0877 | .0841 | .0814 | .0793 | .0902 | .0867 | .0840 | .0819 |
| .380 | 1.77 | .987 | 0.000 | 8.32 | .0721 | .0685 | .0657 | .0636 | .0747 | .0711 | .0683 | .0662 |
| .420 | -0.14 | .995 | .112 | 7.32 | .0646 | .0616 | .0593 | .0575 | .0689 | .0659 | .0636 | .0618 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.96 | .936 | .046 | 9.12 | .0934 | .0897 | .0868 | .0845 | .0963 | .0925 | .0896 | .0873 |
| .340 | 2.75 | .974 | 0.000 | 9.35 | .0766 | .0727 | .0696 | .0672 | .0795 | .0756 | .0725 | .0701 |
| .380 | 1.23 | .965 | 0.000 | 9.05 | .0614 | .0577 | .0548 | .0525 | .0643 | .0605 | .0576 | .0553 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.56 | .939 | 0.000 | 10.09 | .0871 | .0829 | .0797 | .0772 | .0902 | .0861 | .0829 | .0804 |
| .340 | 2.32 | .976 | 0.000 | 10.50 | .0689 | .0647 | .0614 | .0588 | .0722 | .0679 | .0646 | .0620 |
| .380 | .85 | .992 | 0.000 | 9.52 | .052 | .0480 | .0451 | .0425 | .0548 | .0510 | .0481 | .0457 |

RESISTANCE DATA SERIES 65-B MODEL 5186

LP/BPX = 3.32

DEADRISE ANGLE = 22.5 DEG

FNW = 1.50

WEIGHT * LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.01 | .955 | .646 | 5.51 | .1680 | .1650 | .1625 | .1600 | .1705 | .1675 | .1651 | .1632 |
| .380 | 4.50 | .991 | .902 | 6.28 | .1439 | .1408 | .1380 | .1359 | .1467 | .1434 | .1408 | .1387 |
| .420 | 2.70 | 1.070 | .701 | 6.15 | .1331 | .1297 | .1271 | .1250 | .1358 | .1325 | .1299 | .1278 |
| .460 | .50 | 1.000 | 0.000 | 6.66 | .1258 | .1212 | .1176 | .1149 | .1287 | .1242 | .1206 | .1179 |

LP/W(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.92 | .899 | .536 | 5.93 | .1652 | .1630 | .1604 | .1583 | .1689 | .1656 | .1633 | .1610 |
| .380 | 5.55 | .957 | .602 | 6.39 | .1446 | .1411 | .1384 | .1363 | .1475 | .1440 | .1413 | .1392 |
| .420 | 3.77 | .987 | .691 | 6.59 | .1246 | .1211 | .1184 | .1162 | .1276 | .1241 | .1213 | .1192 |
| .460 | 2.24 | .996 | .312 | 7.12 | .1138 | .1098 | .1067 | .1042 | .1170 | .1130 | .1099 | .1074 |
| .460 | 0.00 | 1.000 | .027 | 7.05 | .1111 | .1070 | .1037 | .1012 | .1143 | .1101 | .1069 | .1043 |

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.52 | .846 | .476 | 6.85 | .1474 | .1436 | .1407 | .1383 | .1504 | .1467 | .1437 | .1414 |
| .340 | 4.50 | .953 | .543 | 7.60 | .1254 | .1214 | .1182 | .1157 | .1289 | .1248 | .1216 | .1191 |
| .380 | 3.13 | .985 | .391 | 7.48 | .1101 | .1060 | .1028 | .1003 | .1134 | .1094 | .1062 | .1036 |
| .420 | 1.68 | .993 | .043 | 7.92 | .0989 | .0943 | .0907 | .0879 | .1025 | .0984 | .0943 | .0915 |
| .460 | -.34 | 1.000 | .154 | 6.79 | .1010 | .0972 | .0942 | .0918 | .1041 | .1002 | .0972 | .0948 |

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.28 | .877 | .448 | 8.21 | .1278 | .1233 | .1199 | .1171 | .1315 | .1270 | .1236 | .1208 |
| .340 | 3.70 | .950 | .260 | 15.41 | .1090 | .1045 | .1008 | .0980 | .1128 | .1082 | .1046 | .1017 |
| .380 | 2.53 | .983 | .055 | 8.40 | .0953 | .0905 | .0868 | .0838 | .0991 | .0943 | .0906 | .0876 |
| .420 | 1.04 | .990 | 0.000 | 8.04 | .0858 | .0812 | .0775 | .0746 | .0895 | .0848 | .0811 | .0783 |

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.38 | .897 | .210 | 8.32 | .1103 | .1059 | .1021 | .0991 | .1148 | .1099 | .1061 | .1031 |
| .340 | 3.22 | .959 | .027 | 9.32 | .0953 | .0900 | .0859 | .0827 | .0995 | .0942 | .0901 | .0869 |
| .380 | 1.96 | .983 | 0.000 | 8.96 | .0818 | .0767 | .0727 | .0695 | .0858 | .0807 | .0767 | .0735 |
| .420 | .48 | .988 | 0.900 | 7.87 | .0757 | .0713 | .0678 | .0650 | .0793 | .0748 | .0713 | .0686 |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.87 | .906 | .006 | 9.63 | .0965 | .0911 | .0868 | .0834 | .1009 | .0954 | .0911 | .0878 |
| .340 | 2.81 | .967 | 0.000 | 10.33 | .0849 | .0793 | .0738 | .0702 | .0887 | .0829 | .0784 | .0748 |
| .380 | 1.50 | .988 | 0.000 | 9.37 | .0711 | .0659 | .0618 | .0586 | .0778 | .0721 | .0668 | .0628 |
| .420 | 0.00 | .993 | .001 | 1.53 | .0675 | .0633 | .0601 | .0575 | .0709 | .0667 | .0634 | .0609 |

RESISTANCE DATA SERIES 65-B MODEL 5186

LP/APX = 3.32

DEADRISE ANGLE = 22.5 DEG

FNV = 1.75

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.50 | .925 | .599 | 5.49 | .1819 | .1779 | .1748 | .1723 | .1853 | .1813 | .1781 | .1756 |
| .380 | 4.90 | .985 | .822 | 6.41 | .1543 | .1498 | .1462 | .1434 | .1582 | .1537 | .1502 | .1474 |
| .420 | 2.36 | .996 | .910 | 6.27 | .1442 | .1398 | .1364 | .1336 | .1480 | .1436 | .1402 | .1375 |
| .460 | 0.00 | 1.000 | .908 | 6.37 | .1428 | .1304 | .1349 | .1321 | .1467 | .1423 | .1388 | .1360 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 6.00 | .925 | .540 | 6.13 | .1566 | .1521 | .1487 | .1459 | .1603 | .1559 | .1524 | .1497 |
| .380 | 3.92 | .985 | .722 | 6.71 | .1336 | .1289 | .1252 | .1223 | .1377 | .1330 | .1293 | .1264 |
| .420 | 2.27 | .994 | .885 | 7.14 | .1246 | .1194 | .1153 | .1120 | .1290 | .1237 | .1197 | .1164 |
| .460 | 0.00 | 1.000 | 0.000 | 7.08 | .1229 | .1173 | .1130 | .1095 | .1272 | .1216 | .1173 | .1139 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.99 | .767 | .426 | 6.26 | .1574 | .1527 | .1491 | .1462 | .1612 | .1566 | .1529 | .1501 |
| .340 | 4.511 | .957 | .504 | 7.26 | .1324 | .1272 | .1232 | .1200 | .1368 | .1317 | .1276 | .1244 |
| .380 | 3.30 | .982 | .614 | 7.75 | .1218 | .1163 | .1121 | .1087 | .1265 | .1211 | .1169 | .1135 |
| .420 | 1.96 | .992 | .176 | 8.88 | .1105 | .1045 | .0998 | .0961 | .1154 | .1094 | .1047 | .1010 |
| .460 | -0.02 | 1.000 | 0.000 | 7.45 | .1116 | .1056 | .1014 | .0978 | .1161 | .1104 | .1059 | .1024 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.55 | .819 | .406 | 7.37 | .1332 | .1279 | .1238 | .1205 | .1378 | .1324 | .1283 | .1250 |
| .340 | 3.83 | .948 | .443 | 8.39 | .1217 | .1158 | .1112 | .1075 | .1268 | .1209 | .1163 | .1126 |
| .380 | 2.78 | .980 | .356 | 8.87 | .1108 | .1045 | .0996 | .0957 | .1162 | .1099 | .1050 | .1011 |
| .420 | 1.50 | .990 | .011 | 8.51 | .0988 | .0924 | .0874 | .0834 | .1040 | .0976 | .0926 | .0886 |
| .460 | -0.27 | .998 | .108 | 7.59 | .1046 | .0990 | .0946 | .0912 | .1093 | .1037 | .0993 | .0958 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .859 | .357 | 8.46 | .1224 | .1164 | .1117 | .1080 | .1276 | .1216 | .1169 | .1131 |
| .340 | 3.32 | .948 | .243 | 9.40 | .1121 | .1058 | .1001 | .0959 | .1119 | .1052 | .1001 | .0959 |
| .380 | 2.27 | .981 | .094 | 9.43 | .0997 | .0929 | .0875 | .0832 | .1055 | .0986 | .0933 | .0890 |
| .420 | 1.06 | .985 | 0.000 | 8.61 | .0889 | .0824 | .0774 | .0731 | .0941 | .0877 | .0826 | .0787 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.04 | .863 | .179 | 9.13 | .1107 | .1039 | .0986 | .0943 | .1165 | .1097 | .1043 | .1001 |
| .340 | 2.59 | .960 | .005 | 10.33 | .1009 | .0933 | .0874 | .0827 | .1072 | .0996 | .0937 | .0890 |
| .380 | 1.13 | .980 | 0.000 | 9.69 | .0871 | .0800 | .0745 | .0701 | .0931 | .0860 | .0804 | .0760 |
| .420 | 0.65 | .983 | .011 | 8.59 | .0781 | .0718 | .0669 | .0630 | .0833 | .0771 | .0722 | .0683 |

RESISTANCE DATA SERIES 65-B MODEL 5186

LP/90K = 3.32

DEADWISE ANGLE = 22.5 DEG

ENV = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 10000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.7 24.2 52.2 112.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.00 | .970 | .728 | 6.42 | .1743 | .1685 | .1539 | .1603 | .1794 | .1736 | .1690 | .1654 | |
| .420 | 2.53 | .996 | .946 | 6.67 | .1596 | .1537 | .1491 | .1454 | .1649 | .1590 | .1544 | .1507 | |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 59.0 125.0 12.5 26.9 59.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.70 | .850 | .496 | 5.71 | .1725 | .1671 | .1630 | .1597 | .1770 | .1717 | .1675 | .1642 | |
| .420 | 2.42 | .995 | .487 | 7.32 | .1392 | .1325 | .1272 | .1230 | .1450 | .1383 | .1331 | .1289 | |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.50 | .693 | .371 | 5.70 | .1761 | .1706 | .1664 | .1630 | .1807 | .1752 | .1709 | .1675 | |
| .420 | 2.01 | .992 | .183 | 8.12 | .1235 | .1159 | .1099 | .1052 | .1300 | .1224 | .1164 | .1117 | |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.00 | .748 | .365 | 6.98 | .1456 | .1390 | .1339 | .1299 | .1511 | .1446 | .1395 | .1354 | |
| .420 | 1.50 | .999 | .204 | 7.97 | .1277 | .1204 | .1147 | .1101 | .1341 | .1268 | .1210 | .1165 | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.95 | .796 | .349 | 7.98 | .1335 | .1262 | .1205 | .1160 | .1399 | .1326 | .1269 | .1224 | |
| .420 | 1.13 | .985 | .021 | 8.58 | .1034 | .0954 | .0891 | .0841 | .1103 | .1022 | .0969 | .0909 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.24 | .819 | .265 | 9.21 | .1256 | .1172 | .1106 | .1054 | .1329 | .1245 | .1180 | .1129 | |
| .420 | .79 | .980 | .019 | 8.63 | .0954 | .0875 | .0812 | .0762 | .1023 | .0944 | .0891 | .0831 | |

RESISTANCE DATA SERIES 65-B MODEL 5145

LP/DPX = 3.32 DEADRISE ANGLE = 22.5 DEG FNO = 2.53

WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .420 | 6.26 | .949 | .503 | 4.80 | .2023 | .1956 | .1914 | .1862 | .2083 | .2116 | .1964 | .1922 |
| .460 | 3.63 | 1.000 | .869 | 7.02 | .2159 | .2066 | .1993 | .1935 | .2247 | .2154 | .2181 | .2028 |
| .500 | 1.88 | 1.000 | 1.000 | 7.33 | .2437 | .2342 | .2267 | .2207 | .2529 | .2434 | .2359 | |

LP/V(1/3) = 5.6 LP (FT) = 12.5 26.9 59.0 125.0 12.5 26.9 59.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.30 | .695 | .374 | 4.66 | .1459 | .1791 | .1738 | .1695 | .1917 | .1849 | .1796 | .1753 |
| .380 | 6.00 | .849 | .454 | 5.69 | .1799 | .1720 | .1657 | .1607 | .1870 | .1791 | .1728 | .1678 |
| .420 | 4.50 | .960 | .497 | 6.58 | .1732 | .1642 | .1572 | .1515 | .1814 | .1725 | .1654 | .1598 |
| .460 | 0.00 | 1.000 | .867 | 8.09 | .2208 | .2103 | .2021 | .1955 | .2309 | .2204 | .2122 | .2056 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.1 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|--------------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.17 | .81X- x 9 | .474 | 4.74 | .1784 | .1713 | .1658 | .1615 | .1943 | .1772 | .1717 | .1674 |
| .340 | 6.00 | .746 | .353 | 5.69 | .1697 | .1616 | .1553 | .1502 | .1768 | .1687 | .1624 | .1573 |
| .380 | 4.71 | .898 | .416 | 6.77 | .1699 | .1515 | .1442 | .1384 | .1692 | .1599 | .1527 | .1469 |
| .420 | 3.42 | .976 | .538 | 7.56 | .1609 | .1508 | .1429 | .1366 | .1703 | .1603 | .1524 | .1461 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.19 | .641 | .268 | 5.73 | .1674 | .1590 | .1525 | .1473 | .1745 | .1562 | .1597 | .1545 |
| .340 | 5.01 | .796 | .344 | 6.81 | .1575 | .1481 | .1407 | .1348 | .1660 | .1566 | .1492 | .1433 |
| .380 | 3.92 | .917 | .380 | 7.88 | .1543 | .1437 | .1354 | .1287 | .1642 | .1536 | .1452 | .1385 |
| .420 | 2.64 | .987 | .265 | 8.97 | .1560 | .1439 | .1343 | .1267 | .1672 | .1551 | .1455 | .1379 |
| .460 | -0.39 | 1.000 | .645 | 9.13 | .1758 | .1679 | .1529 | .1448 | .1972 | .1744 | .1647 | .1562 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.48 | .667 | .260 | 6.65 | .1601 | .1506 | .1432 | .1373 | .1684 | .1589 | .1515 | .1456 |
| .340 | 4.32 | .821 | .289 | 7.85 | .1523 | .1416 | .1331 | .1264 | .1621 | .1514 | .1420 | .1362 |
| .380 | 3.29 | .939 | .188 | 9.49 | .1539 | .1408 | .1397 | .1225 | .1656 | .1527 | .1425 | .1344 |
| .420 | 2.01 | .998 | .073 | 10.09 | .1517 | .1378 | .1268 | .1181 | .1643 | .1504 | .1394 | .1307 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.89 | .686 | .234 | 7.41 | .1535 | .1431 | .1349 | .1284 | .1627 | .1523 | .1442 | .1377 |
| .340 | 3.83 | .839 | .132 | 9.44 | .1531 | .1400 | .1298 | .1216 | .1649 | .1518 | .1415 | .1334 |
| .380 | 2.82 | .958 | 0.000 | 11.17 | .1543 | .1387 | .1265 | .1168 | .1683 | .1527 | .1405 | .1307 |
| .420 | 1.50 | .985 | .007 | 10.56 | .1486 | .1340 | .1226 | .1135 | .1618 | .1472 | .1358 | .1266 |

RESISTANCE DATA SFRIES 65-B MODEL 5186

LP/DPX = 3.32

DEADRISE ANGLE = 22.5 DEG

FNC = 3.89

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.95 | .489 | .277 | 3.32 | .1717 | .1643 | .1585 | .1540 | .1777 | .1703 | .1645 | .1599 |
| .340 | 6.68 | .725 | .380 | 3.53 | .1754 | .1681 | .1625 | .1579 | .1817 | .1745 | .1688 | .1643 |
| .380 | 6.10 | .787 | .444 | 4.25 | .1810 | .1724 | .1657 | .1604 | .1886 | .1801 | .1734 | .1681 |
| .420 | 5.07 | .847 | .574 | 5.84 | .1975 | .1862 | .1773 | .1701 | .2060 | .1967 | .1878 | .1806 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.36 | .572 | .256 | 3.58 | .1897 | .1822 | .1763 | .1717 | .1960 | .1885 | .1826 | .1780 |
| .340 | 6.57 | .671 | .320 | 3.93 | .1859 | .1778 | .1715 | .1664 | .1930 | .1849 | .1785 | .1735 |
| .380 | 5.89 | .771 | .356 | 4.61 | .1868 | .1768 | .1696 | .1638 | .1943 | .1851 | .1779 | .1721 |
| .420 | 5.24 | .867 | .392 | 5.45 | .1909 | .1802 | .1718 | .1652 | .2006 | .1900 | .1816 | .1750 |
| .460 | 4.50 | .960 | .458 | 6.52 | .2036 | .1912 | .1814 | .1736 | .2153 | .2029 | .1932 | .1854 |
| .500 | 3.94 | .996 | .568 | 7.39 | .2217 | .2079 | .1971 | .1884 | .2350 | .2212 | .2104 | .2017 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.56 | .589 | .228 | 4.17 | .1664 | .1797 | .1728 | .1674 | .1959 | .1872 | .1803 | .1750 |
| .340 | 5.82 | .694 | .270 | 4.96 | .1876 | .1775 | .1696 | .1633 | .1965 | .1864 | .1785 | .1722 |
| .380 | 5.13 | .800 | .314 | 5.07 | .1866 | .1753 | .1663 | .1590 | .1974 | .1859 | .1768 | .1696 |
| .420 | 4.50 | .892 | .365 | 6.71 | .1892 | .1763 | .1662 | .1582 | .2013 | .1884 | .1783 | .1702 |
| .460 | 4.01 | .950 | .426 | 7.27 | .1958 | .1822 | .1715 | .1629 | .2089 | .1953 | .1845 | .1759 |
| .500 | 3.24 | 1.000 | .525 | 8.10 | .2139 | .1991 | .1874 | .1785 | .2205 | .2137 | .2020 | .1938 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.6

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.77 | .617 | .203 | 5.14 | .1761 | .1655 | .1572 | .1506 | .1980 | .1858 | .1762 | .1686 |
| .340 | 5.06 | .724 | .252 | 6.13 | .1769 | .1648 | .1552 | .1476 | .1926 | .1791 | .1685 | .1608 |
| .380 | 4.44 | .828 | .304 | 7.01 | .1799 | .1665 | .1559 | .1474 | .1987 | .1845 | .1733 | .1643 |
| .420 | 3.91 | .897 | .367 | 8.19 | .1851 | .1708 | .1596 | .1506 | .2089 | .1953 | .1845 | .1759 |
| .460 | 3.24 | .977 | .419 | 1.31 | .1955 | .1802 | .1662 | .1586 | .2104 | .1952 | .1831 | .1735 |
| .500 | 2.30 | 1.000 | .379 | 9.41 | .2202 | .2029 | .1892 | .1783 | .2372 | .2199 | .2062 | .1953 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.11 | .637 | .182 | 6.17 | .1644 | .1519 | .1421 | .1353 | .1755 | .1630 | .1532 | .1454 |
| .340 | 4.50 | .732 | .227 | 7.10 | .1743 | .1604 | .1495 | .1408 | .1871 | .1732 | .1623 | .1536 |
| .380 | 3.86 | .838 | .323 | 7.97 | .1828 | .1678 | .1560 | .1466 | .1971 | .1822 | .1704 | .1609 |
| .420 | 3.24 | .935 | .385 | 8.85 | .1919 | .1758 | .1630 | .1528 | .2079 | .1917 | .1789 | .1687 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.64 | .641 | .148 | 7.86 | .1704 | .1562 | .1451 | .1362 | .1831 | .1689 | .1578 | .1489 |
| .340 | 4.01 | .761 | .255 | 8.19 | .1845 | .1689 | .1567 | .1469 | .199a | .1836 | .1714 | .1616 |
| .380 | 3.39 | .879 | .358 | 9.31 | .1941 | .1772 | .1638 | .1530 | .2109 | .1939 | .1805 | .1698 |
| .420 | 2.75 | .956 | .317 | 8.03 | .1827 | .1677 | .1558 | .1463 | .1972 | .1821 | .1702 | .1607 |
| .460 | 4.25 | .734 | .284 | 7.85 | .1889 | .1660 | .1543 | .1449 | .1950 | .1801 | .1684 | .1590 |

RESISTANCE DATA SERIES 65-9 MODEL 5186

LP/RPX = 3.32

DEADRISF ANGLE = 22.5 DFG

FNW = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 64.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.45 | .614 | .190 | 5.18 | .1556 | .1415 | .1304 | .1216 | .1683 | .1542 | .1431 | .1343 | |
| .340 | 3.97 | .691 | .234 | 5.69 | .1601 | .1450 | .1332 | .1238 | .1740 | .1590 | .1472 | .1377 | |
| .380 | 3.42 | .760 | .282 | 6.22 | .1682 | .1522 | .1396 | .1295 | .1834 | .1674 | .1548 | .1447 | |
| .420 | 3.00 | .824 | .341 | 6.89 | .1832 | .1659 | .1522 | .1413 | .2001 | .1828 | .1691 | .1580 | |
| .460 | 2.58 | .887 | .414 | 7.16 | .1881 | .1725 | .1604 | .1508 | .2008 | .1852 | .1730 | .1634 | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.72 | .607 | .133 | 5.78 | .1881 | .1723 | .1600 | .1501 | .2022 | .1865 | .1741 | .1643 | |
| .340 | 4.24 | .697 | .187 | 6.50 | .1949 | .1779 | .1645 | .1538 | .2108 | .1938 | .1804 | .1697 | |
| .380 | 3.84 | .784 | .246 | 7.14 | .2024 | .1847 | .1705 | .1590 | .2203 | .2022 | .1879 | .1765 | |
| .420 | 3.47 | .862 | .302 | 7.00 | .2122 | .1929 | .1777 | .1655 | .2313 | .2120 | .1968 | .1846 | |
| .460 | 3.07 | .934 | .356 | 8.56 | .2245 | .2038 | .1874 | .1743 | .2454 | .2247 | .2084 | .1952 | |
| .500 | 3.55 | .874 | .326 | 7.54 | .2068 | .1883 | .1737 | .1620 | .2253 | .2068 | .1922 | .1804 | |

LP/V(1/3) = 7.E LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.50 | .604 | .097 | 6.33 | .1983 | .1811 | .1677 | .1569 | .2346 | .2157 | .2009 | .1898 | |
| .340 | 4.02 | .711 | .206 | 7.37 | .2165 | .1977 | .1823 | .1709 | .2519 | .2314 | .2152 | .2022 | |
| .380 | 3.61 | .808 | .302 | 8.35 | .2315 | .2110 | .1948 | .1818 | .2675 | .2452 | .2276 | .2134 | |
| .420 | 3.20 | .896 | .380 | 9.44 | .2446 | .2223 | .2047 | .1905 | .2760 | .2522 | .2333 | .2182 | |
| .460 | 2.87 | .945 | .396 | 10.09 | .2513 | .2275 | .2086 | .1905 | .2804 | .2545 | .2340 | .2176 | |
| .500 | 7.47 | .971 | .340 | 10.90 | .2537 | .2278 | .2073 | .1909 | | | | | |

RESISTANCE DATA SERIES 65-B MODEL 5100

LP/PPX = 3.32

DEADRISE ANGLE = 22.5 DEG

FN9 = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 L P (FT)= 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.20 | .591 | .208 | 5.15 | .1539 | .1357 | .1214 | .1100 | .1710 | .1528 | .1385 | .1271 |
| .340 | 2.77 | .616 | .279 | 6.79 | .1642 | .1431 | .1265 | .1132 | .1847 | .1636 | .1469 | .1336 |
| .380 | 2.25 | .661 | .365 | 7.74 | .1770 | .1521 | .1324 | .1166 | .2017 | .1768 | .1571 | .1413 |
| .420 | 1.69 | .670 | .453 | 9.08 | .2013 | .1726 | .1499 | .1317 | .2304 | .2017 | .1790 | .1607 |
| .460 | 1.09 | .669 | .535 | 10.26 | .2476 | .2156 | .1904 | .1700 | .2804 | .2485 | .2232 | .2028 |
| .500 | .43 | .665 | .601 | 10.97 | .3319 | .2981 | .2713 | .2498 | .3670 | .3332 | .3064 | .2849 |

LP/V(1/3) = 7.0 L P (FT)= 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.75 | .592 | .077 | 5.45 | .2161 | .1972 | .1823 | .1704 | .2335 | .2146 | .1997 | .1878 |
| .340 | 3.65 | .694 | .161 | 6.67 | .2361 | .2141 | .1968 | .1829 | .2575 | .2355 | .2181 | .2042 |
| .380 | 3.51 | .776 | .236 | 7.79 | .2531 | .2283 | .2087 | .1930 | .2780 | .2532 | .2336 | .2179 |
| .420 | 3.23 | .844 | .303 | 8.82 | .2678 | .2405 | .2188 | .2014 | .2960 | .2687 | .2471 | .2297 |
| .460 | 2.94 | .899 | .364 | 9.90 | .2800 | .2500 | .2261 | .2070 | .3117 | .2816 | .2578 | .2386 |
| .500 | 2.58 | .932 | .421 | 11.20 | .2848 | .2511 | .2243 | .2027 | .3209 | .2871 | .2603 | .2388 |

RESISTANCE DATA SERIES 65-B MODEL 5146

COEFF = 4.69 HEADRISF ANGLE = 2 2 . 5 DEG FNC = 1.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 17.7 29.6 61.4 137.5 17.7 29.6 61.4 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .101 | 5.95 | .951 | .614 | 6.48 | .0900 | .0971 | .0960 | .0950 | .1001 | .0986 | .0971 | .0963 |
| .340 | 3.54 | .981 | .744 | 6.71 | .0771 | .0754 | .0761 | .0730 | .0784 | .0767 | .0754 | .0744 |
| .380 | 1.74 | .994 | .821 | 6.67 | .0674 | .0621 | .0608 | .0594 | .0651 | .0634 | .0622 | .0611 |
| .420 | 0.16 | 1.000 | 1.000 | 6.91 | .0542 | .0525 | .0512 | .0501 | .0555 | .0549 | .0526 | .0515 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 4.15 | .955 | .544 | 7.31 | .0796 | .0770 | .0761 | .0752 | .0811 | .0792 | .0778 | .0767 |
| .340 | 2.75 | .981 | .505 | 7.22 | .0634 | .0520 | .0606 | .0595 | .0653 | .0625 | .0620 | .0609 |
| .380 | 1.22 | .991 | .724 | 7.38 | .0545 | .0526 | .0512 | .0501 | .0559 | .0541 | .0527 | .0516 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 3.60 | .965 | .442 | 7.64 | .0675 | .0656 | .0641 | .0629 | .0680 | .0671 | .0656 | .0644 |
| .340 | 2.16 | .980 | .438 | 7.59 | .0545 | .0526 | .0511 | .0499 | .0560 | .0541 | .0526 | .0514 |
| .380 | 0.71 | .988 | .465 | 7.53 | .0454 | .0435 | .0420 | .0408 | .0469 | .0450 | .0435 | .0424 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 170.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 3.00 | .964 | .334 | 8.31 | .0577 | .0555 | .0539 | .0526 | .0587 | .0572 | .0556 | .0543 |
| .340 | 1.70 | .978 | .325 | 8.04 | .0497 | .0476 | .0460 | .0448 | .0513 | .0492 | .0475 | .0464 |
| .380 | 0.47 | .984 | .179 | 7.53 | .0415 | .0390 | .0383 | .0371 | .0433 | .0417 | .0398 | .0386 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.75 | .969 | .212 | 9.75 | .0542 | .0518 | .0503 | .0492 | .0601 | .0577 | .0559 | .0543 |
| .340 | 1.58 | .978 | .111 | 8.81 | .0481 | .0460 | .0442 | .0429 | .0511 | .0474 | .0460 | .0446 |
| .380 | 0.29 | .992 | 0.000 | 8.11 | .0399 | .0378 | .0361 | .0348 | .0415 | .0396 | .0377 | .0364 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.44 | .966 | .107 | 10.15 | .0575 | .0549 | .0528 | .0512 | .0595 | .0569 | .0549 | .0533 |
| .340 | 1.20 | .977 | 0.000 | 9.42 | .0458 | .0432 | .0413 | .0398 | .0476 | .0451 | .0432 | .0416 |
| .380 | 0.16 | .982 | 0.000 | 8.72 | .0398 | .0375 | .0357 | .0343 | .0415 | .0393 | .0375 | .0361 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.11 | .960 | .001 | 10.69 | .0540 | .0512 | .0490 | .0477 | .0561 | .0537 | .0511 | .0494 |
| .340 | 1.00 | .978 | 0.000 | 9.95 | .0439 | .0417 | .0392 | .0376 | .0459 | .0432 | .0412 | .0396 |
| .380 | 0.04 | .982 | 0.012 | 9.22 | .0410 | .0386 | .0367 | .0353 | .0428 | .0404 | .0386 | .0371 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 1.78 | .959 | 0.000 | 11.61 | .0479 | .0459 | .0428 | .0410 | .0501 | .0472 | .0450 | .0432 |
| .340 | 0.87 | .983 | 0.008 | 10.40 | .0424 | .0397 | .0376 | .0359 | .0445 | .0416 | .0397 | .0380 |
| .380 | 0.00 | .988 | 0.038 | 9.60 | .0425 | .0401 | .0382 | .0367 | .0445 | .0420 | .0401 | .0386 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 1.57 | .962 | 0.000 | 11.27 | .0435 | .0407 | .0384 | .0366 | .0458 | .0429 | .0407 | .0389 |
| .340 | 0.97 | .986 | 0.000 | 10.94 | .0422 | .0394 | .0373 | .0355 | .0444 | .0416 | .0394 | .0377 |
| .380 | 0.00 | .978 | 0.026 | 10.03 | .0453 | .0424 | .0405 | .0389 | .0470 | .0444 | .0425 | .0409 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 1.52 | .959 | 0.000 | 11.46 | .0386 | .0358 | .0335 | .0317 | .0409 | .0380 | .0358 | .0340 |
| .340 | 0.59 | .953 | 0.000 | 11.47 | .0386 | .0357 | .0334 | .0317 | .0409 | .0380 | .0357 | .0339 |
| .380 | 0.00 | .977 | 0.000 | 10.40 | .0466 | .0440 | .0420 | .0404 | .0487 | .0461 | .0441 | .0425 |

RESISTANCE DATA SERIES 65-B MODEL 5144

LP/PPX = 4.64 QFAORISE ANGLE = 22.5 DEG FND = 1.25

| WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000 | | | | | | | | | | | | |
|--|-------|-------|-------|--------------------------------|---------------------------|-------|-------|----------------------|--------------------------------|-------|-------|-------|
| LP/W(1/3) = 5.4 | | | | LP (FT) = 13.7 29.6 61.0 137.5 | | | | 13.7 29.6 61.0 137.5 | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 7.24 | .872 | .595 | 6.20 | .1655 | .1671 | .1610 | .1598 | .1675 | .1681 | .1632 | .1617 |
| .340 | 4.83 | .971 | .715 | 6.83 | .1759 | .1734 | .1215 | .1190 | .1780 | .1255 | .1235 | .1220 |
| .380 | 3.00 | .986 | .887 | 7.09 | .1009 | .0987 | .0962 | .0946 | .1031 | .1005 | .0984 | .0968 |
| .420 | 1.50 | .997 | .996 | 6.81 | .0887 | .0858 | .0839 | .0823 | .0945 | .0910 | .0890 | .0875 |
| LP/W(1/3) = 6.0 | | | | | | | | | | | | |
| LP (FT) = 15.0 32.3 69.6 150.0 | | | | 15.0 32.3 69.6 150.0 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 5.62 | .963 | .597 | 7.20 | .1344 | .1317 | .1295 | .1278 | .1364 | .1339 | .1318 | .1301 |
| .340 | 3.81 | .975 | .640 | 7.44 | .1044 | .1016 | .0995 | .0977 | .1068 | .1040 | .1018 | .1001 |
| .380 | 2.38 | .984 | .757 | 7.56 | .0865 | .0836 | .0814 | .0797 | .0887 | .0859 | .0838 | .0820 |
| .420 | .74 | .994 | .975 | 7.77 | .0741 | .0703 | .0681 | .0664 | .0755 | .0727 | .0706 | .0689 |
| LP/W(1/3) = 6.4 | | | | | | | | | | | | |
| LP (FT) = 16.2 35.0 75.4 167.5 | | | | 16.2 35.0 75.4 167.5 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 4.50 | .940 | .524 | 7.99 | .1113 | .1087 | .1060 | .1041 | .1134 | .1108 | .1085 | .1066 |
| .340 | 3.32 | .972 | .499 | 1.99 | .0945 | .0915 | .0891 | .0873 | .0970 | .0940 | .0916 | .0898 |
| .380 | 1.83 | .982 | .662 | 7.75 | .0757 | .0723 | .0700 | .0682 | .0776 | .0747 | .0724 | .0706 |
| .420 | .36 | .992 | .986 | 7.72 | .0634 | .0600 | .0583 | .0565 | .0658 | .0629 | .0607 | .0589 |
| .460 | -3.0 | 1.000 | .769 | 7.91 | .0620 | .0592 | .0569 | .0557 | .0645 | .0616 | .0594 | .0576 |
| LP/W(1/3) = 7.0 | | | | | | | | | | | | |
| LP (FT) = 17.5 37.7 81.2 175.0 | | | | 17.5 37.7 81.2 175.0 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.84 | .931 | .416 | 8.19 | .0944 | .0913 | .0889 | .0870 | .0970 | .0939 | .0915 | .0896 |
| .340 | 2.70 | .971 | .380 | 8.27 | .0776 | .0745 | .0721 | .0702 | .0802 | .0771 | .0747 | .0728 |
| .380 | 1.26 | .979 | .502 | 7.91 | .0620 | .0590 | .0574 | .0556 | .0652 | .0622 | .0599 | .0580 |
| .420 | -.10 | .988 | .620 | 6.94 | .0559 | .0531 | .0510 | .0493 | .0581 | .0553 | .0532 | .0514 |
| .460 | -7.7 | 1.000 | 0.000 | 6.54 | .0546 | .0519 | .0498 | .0482 | .0566 | .0539 | .0518 | .0501 |
| LP/W(1/3) = 7.5 | | | | | | | | | | | | |
| LP (FT) = 18.7 40.4 87.0 187.5 | | | | 18.7 40.4 87.0 187.5 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.53 | .921 | .313 | 8.08 | .0859 | .0826 | .0800 | .0779 | .0887 | .0854 | .0828 | .0807 |
| .340 | 2.28 | .978 | .285 | 9.10 | .0706 | .0671 | .0644 | .0622 | .0735 | .0700 | .0673 | .0651 |
| .380 | 1.03 | .977 | .465 | 8.47 | .0573 | .0540 | .0514 | .0494 | .0608 | .0567 | .0541 | .0520 |
| .420 | -.08 | .991 | 0.000 | 7.74 | .0542 | .0511 | .0487 | .0468 | .0567 | .0535 | .0511 | .0492 |
| LP/W(1/3) = 8.0 | | | | | | | | | | | | |
| LP (FT) = 20.9 44.1 92.8 200.0 | | | | 20.9 44.1 92.8 200.0 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 3.15 | .918 | .294 | 9.06 | .0814 | .0780 | .0750 | .0727 | .0849 | .0811 | .0781 | .0758 |
| .340 | 1.94 | .975 | .336 | 9.91 | .0654 | .0617 | .0587 | .0564 | .0687 | .0648 | .0618 | .0595 |
| .380 | .81 | .976 | 0.000 | 9.10 | .0539 | .0503 | .0475 | .0452 | .0567 | .0531 | .0503 | .0481 |
| .420 | -2.29 | .994 | .064 | 8.67 | .0556 | .0522 | .0496 | .0476 | .0583 | .0549 | .0523 | .0503 |
| LP/W(1/3) = 8.5 | | | | | | | | | | | | |
| LP (FT) = 21.2 45.8 98.6 212.5 | | | | 21.2 45.8 98.6 212.5 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.75 | .912 | .088 | 10.78 | .0774 | .0729 | .0697 | .0671 | .0804 | .0763 | .0731 | .0705 |
| .340 | 1.65 | .972 | 0.000 | 10.45 | .0617 | .0571 | .0539 | .0514 | .0645 | .0604 | .0572 | .0546 |
| .380 | .42 | .970 | 0.000 | 9.67 | .0521 | .0483 | .0454 | .0430 | .0552 | .0514 | .0484 | .0461 |
| .420 | -4.8 | .999 | .224 | 9.19 | .0574 | .0540 | .0514 | .0493 | .0603 | .0569 | .0542 | .0521 |
| LP/W(1/3) = 9.0 | | | | | | | | | | | | |
| LP (FT) = 22.5 48.5 104.4 225.0 | | | | 22.5 48.5 104.4 225.0 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.38 | .929 | 0.000 | 11.20 | .0732 | .0659 | .0625 | .0598 | .0737 | .0694 | .0660 | .0633 |
| .340 | 1.41 | .977 | 0.000 | 10.90 | .0579 | .0537 | .0504 | .0477 | .0613 | .0571 | .0538 | .0511 |
| .380 | .48 | .984 | 0.000 | 10.10 | .0516 | .0477 | .0447 | .0423 | .0547 | .0509 | .0478 | .0454 |
| LP/W(1/3) = 9.5 | | | | | | | | | | | | |
| LP (FT) = 23.7 51.2 110.2 237.4 | | | | 23.7 51.2 110.2 237.4 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.04 | .912 | 0.000 | 11.52 | .0632 | .0587 | .0553 | .0526 | .0664 | .0623 | .0589 | .0562 |
| .340 | 1.25 | .976 | 0.000 | 11.21 | .0562 | .0519 | .0485 | .0458 | .0597 | .0554 | .0520 | .0494 |
| .380 | .41 | .988 | 0.000 | 10.39 | .0517 | .0478 | .0447 | .0423 | .0549 | .0510 | .0479 | .0455 |
| LP/W(1/3) = 10.0 | | | | | | | | | | | | |
| LP (FT) = 25.0 53.8 116.0 249.9 | | | | 25.0 53.8 116.0 249.9 | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 1.71 | .945 | 0.000 | 11.75 | .0568 | .0524 | .0490 | .0462 | .0605 | .0561 | .0526 | .0499 |
| .340 | 1.28 | .976 | .001 | 11.68 | .0521 | .0480 | .0444 | .0417 | .0561 | .0518 | .0481 | .0454 |
| .380 | .43 | .994 | .002 | 10.67 | .0521 | .0482 | .0451 | .0426 | .0555 | .0515 | .0484 | .0460 |

RESISTANCE DATA SERIES 65-B MODEL 5194

LP/BPR = 4.64 DEPARTURE ANGLE = 22.5 DEG FND = 1.50

HEIGHT = LIFT (LN, SFMATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(L/3) = 5.4 LP (FT) = 13.7 29.6 61.0 137.5 13.7 29.6 61.0 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 7.50 | .800 | .971 | 6.02 | .1737 | .1798 | .1879 | .1968 | .1764 | .1781 | .1766 | .1685 |
| .140 | 5.16 | .958 | .894 | 8.42 | .1384 | .1350 | .1324 | .1303 | .1413 | .1379 | .1353 | .1332 |
| .180 | 3.42 | .979 | .800 | 7.05 | .1132 | .1095 | .1067 | .1044 | .1163 | .1127 | .1099 | .1076 |
| .220 | 1.85 | .993 | .973 | 6.80 | .0999 | .0965 | .0937 | .0916 | .1030 | .0996 | .0968 | .0947 |
| .463 | .76 | 1.000 | 1.000 | 6.69 | .0995 | .0981 | .0975 | .0954 | .0965 | .0937 | .0905 | .0884 |

LP/W(L/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 6.00 | .841 | .951 | 6.81 | .1698 | .1650 | .1610 | .1607 | .1525 | .1489 | .1460 | .1438 |
| .140 | 4.16 | .969 | .826 | 7.45 | .1192 | .1153 | .1125 | .1100 | .1225 | .1187 | .1157 | .1133 |
| .180 | 2.77 | .940 | .787 | 7.80 | .0996 | .0958 | .0929 | .0904 | .1029 | .0991 | .0961 | .0937 |
| .220 | 1.33 | .992 | .941 | 7.77 | .0877 | .0839 | .0809 | .0785 | .0912 | .0874 | .0844 | .0820 |
| .460 | 0.00 | 1.000 | 1.000 | 7.05 | .0931 | .0903 | .0872 | .0739 | .0906 | .0828 | .0798 | .0774 |

LP/W(L/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 4.87 | .944 | .951 | 7.71 | .1242 | .1241 | .1210 | .1185 | .1316 | .1276 | .1245 | .1219 |
| .140 | 3.50 | .966 | .951 | 8.17 | .1064 | .1022 | .0989 | .0962 | .1100 | .1058 | .1025 | .0999 |
| .180 | 2.29 | .949 | .954 | 8.10 | .0897 | .0856 | .0823 | .0797 | .0933 | .0892 | .0860 | .0834 |
| .220 | .96 | .988 | .929 | 7.84 | .0794 | .0756 | .0721 | .0699 | .0830 | .0790 | .0759 | .0734 |
| .460 | -1.15 | .999 | .771 | 8.10 | .0751 | .0711 | .0679 | .0654 | .0787 | .0747 | .0716 | .0690 |

LP/W(L/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 4.16 | .993 | .947 | 8.04 | .1147 | .1102 | .1069 | .1043 | .1180 | .1138 | .1105 | .1079 |
| .140 | 2.00 | .966 | .943 | 8.71 | .0942 | .0897 | .0862 | .0834 | .0981 | .0936 | .0901 | .0873 |
| .180 | 1.81 | .978 | .972 | 8.26 | .0886 | .0853 | .0829 | .0793 | .0943 | .0900 | .0877 | .0848 |
| .220 | .65 | .981 | .969 | 7.28 | .0723 | .0684 | .0653 | .0629 | .0787 | .0747 | .0716 | .0682 |
| .460 | -1.70 | 1.000 | 0.000 | 6.47 | .0690 | .0657 | .0625 | .0602 | .0719 | .0682 | .0654 | .0631 |

LP/W(L/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 3.85 | .978 | .974 | 8.60 | .1059 | .1014 | .0979 | .0951 | .1099 | .1051 | .1018 | .0990 |
| .140 | 2.69 | .969 | .929 | 9.42 | .0887 | .0844 | .0800 | .0770 | .0930 | .0881 | .0842 | .0812 |
| .180 | 1.50 | .978 | .978 | 8.76 | .0791 | .0754 | .0717 | .0682 | .0848 | .0793 | .0754 | .0724 |
| .220 | .45 | .979 | 0.994 | 7.71 | .0676 | .0633 | .0600 | .0574 | .0741 | .0688 | .0635 | .0609 |

LP/W(L/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 3.51 | .974 | .924 | 9.36 | .0984 | .0945 | .0907 | .0877 | .1036 | .0987 | .0949 | .0919 |
| .140 | 2.36 | .967 | .921 | 10.10 | .0837 | .0790 | .0737 | .0704 | .0879 | .0825 | .0783 | .0750 |
| .180 | 1.33 | .977 | 0.000 | 9.44 | .0699 | .0647 | .0607 | .0575 | .0741 | .0689 | .0649 | .0617 |
| .220 | .26 | .990 | 0.000 | 8.41 | .0644 | .0602 | .0567 | .0538 | .0686 | .0640 | .0605 | .0576 |

LP/W(L/3) = 8.5 LP (FT) = 21.7 45.8 98.6 212.5 21.7 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 3.15 | .991 | .980 | 10.32 | .0943 | .0899 | .0847 | .0813 | .0990 | .0936 | .0893 | .0859 |
| .140 | 2.04 | .981 | 0.000 | 10.87 | .0745 | .0728 | .0683 | .0648 | .0833 | .0776 | .0731 | .0696 |
| .180 | 1.14 | .978 | 0.000 | 10.07 | .0664 | .0649 | .0607 | .0533 | .0710 | .0655 | .0612 | .0578 |
| .220 | 0.00 | .982 | .055 | 8.96 | .0634 | .0587 | .0540 | .0529 | .0674 | .0627 | .0590 | .0561 |

LP/W(L/3) = 9.0 LP (FT) = 22.5 48.4 104.4 225.0 22.5 48.4 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.80 | .994 | .057 | 10.96 | .0891 | .0833 | .0788 | .0751 | .0940 | .0882 | .0837 | .0801 |
| .140 | 1.84 | .967 | 0.000 | 11.19 | .0751 | .0691 | .0644 | .0607 | .0801 | .0741 | .0694 | .0657 |
| .180 | .96 | .981 | 0.000 | 10.62 | .0684 | .0637 | .0583 | .0587 | .0692 | .0635 | .0591 | .0555 |
| .220 | -1.15 | .978 | .111 | 9.86 | .0599 | .0553 | .0516 | .0487 | .0548 | .0503 | .0457 | .0428 |

LP/W(L/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.50 | .997 | 0.000 | 11.32 | .0837 | .0777 | .0730 | .0693 | .0888 | .0820 | .0761 | .0744 |
| .140 | 1.62 | .969 | 0.000 | 11.38 | .0732 | .0670 | .0622 | .0584 | .0785 | .0723 | .0675 | .0636 |
| .180 | .74 | .988 | 0.000 | 10.99 | .0674 | .0626 | .0531 | .0495 | .0684 | .0626 | .0581 | .0545 |
| .220 | -1.56 | .983 | .115 | 7.91 | .0514 | .0473 | .0442 | .0417 | .0549 | .0509 | .0477 | .0452 |

LP/W(L/3) = 10.0 LP (FT) = 25.0 53.0 116.0 249.9 25.0 53.0 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S W(273) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .100 | 2.21 | .996 | 0.000 | 11.65 | .0784 | .0724 | .0677 | .0639 | .0838 | .0777 | .0729 | .0691 |
| .140 | 1.43 | .965 | 0.000 | 12.12 | .0723 | .0661 | .0612 | .0573 | .0774 | .0715 | .0666 | .0627 |
| .180 | .61 | .995 | .093 | 11.05 | .0527 | .0485 | .0450 | .0426 | .0671 | .0615 | .0570 | .0535 |

RESISTANCE DATA SERIES 69-B MODEL 5144

LP/DPX = 4.69 DEADRISE ANGLE = 22.5 DEG FNR = 1.75

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.460) and TRIM (0.01 to 0.53).

LP/W(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.460) and TRIM (0.01 to 0.36).

LP/W(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.460) and TRIM (0.01 to 0.21).

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.450) and TRIM (0.01 to 0.00).

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.460) and TRIM (0.01 to -0.29).

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0104. Rows include values for LCG (1.300 to 1.420) and TRIM (0.01 to 0.53).

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.420) and TRIM (0.01 to 0.35).

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.420) and TRIM (0.01 to 0.20).

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.420) and TRIM (0.01 to 0.00).

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

Table with columns: LCG, TRIM (DEG), LK, LC, S, RESISTANCE/LIFT FOR DCF=0, RESISTANCE/LIFT FOR DCF=0.0004. Rows include values for LCG (1.300 to 1.420) and TRIM (0.01 to -0.05).

RESISTANCE DATA SERIES 65-R MODFL 514

LP/BPX = 4.69 HEADRISE ANGLE = 22.5 DEG FNV = 2.00

HEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1500 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 17.7 29.6 43.8 137.5 15.7 24.6 41.8 137.5

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 5.52 | .992 | .564 | 6.21 | .1507 | .1531 | .1487 | .1442 | .1637 | .1541 | .1527 | .1502 | .1474 |
| .100 | 5.52 | .975 | .578 | 6.34 | .1330 | .1273 | .1228 | .1192 | .1372 | .1276 | .1260 | .1244 | .1216 |
| .120 | 2.07 | .946 | .439 | 6.63 | .1237 | .1181 | .1136 | .1101 | .1290 | .1194 | .1179 | .1154 | .1126 |
| .140 | .72 | 1.000 | 1.000 | 6.74 | .1240 | .1184 | .1139 | .1104 | .1294 | .1198 | .1183 | .1158 | .1130 |

LP/V(1/1) = 8.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LOG LP (1/1) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (1/1) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 4.44 | .976 | .476 | 6.05 | .1656 | .1601 | .1557 | .1522 | .1705 | .1609 | .1595 | .1571 | .1542 |
| .100 | 4.44 | .957 | .489 | 6.22 | .1466 | .1403 | .1353 | .1317 | .1494 | .1398 | .1381 | .1357 | .1328 |
| .120 | 3.00 | .974 | .467 | 7.33 | .1204 | .1141 | .1091 | .1055 | .1232 | .1136 | .1120 | .1100 | .1071 |
| .140 | 1.72 | .946 | .449 | 7.65 | .1161 | .1097 | .1047 | .1011 | .1191 | .1095 | .1079 | .1059 | .1030 |
| .160 | .50 | .976 | .417 | 7.34 | .1129 | .1067 | .1019 | .0984 | .1165 | .1069 | .1053 | .1033 | .1004 |

LP/V(1/3) = 6.5 LP (FT) = 14.2 35.0 75.4 162.5 14.2 35.0 75.4 162.5

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 5.25 | .977 | .449 | 6.91 | .1451 | .1389 | .1340 | .1302 | .1486 | .1390 | .1376 | .1357 | .1328 |
| .100 | 5.25 | .958 | .462 | 7.04 | .1262 | .1203 | .1154 | .1116 | .1294 | .1198 | .1183 | .1164 | .1135 |
| .120 | 2.52 | .976 | .468 | 8.44 | .1112 | .1049 | .0998 | .0960 | .1139 | .1043 | .1027 | .1008 | .979 |
| .140 | 1.50 | .941 | .466 | 8.41 | .1072 | .1012 | .0961 | .0923 | .1102 | .1006 | .990 | .971 | .942 |
| .160 | .40 | .946 | .397 | 7.36 | .1057 | .0997 | .0946 | .0908 | .1087 | .991 | .981 | .962 | .933 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 4.29 | .949 | .428 | 7.40 | .1284 | .1219 | .1166 | .1124 | .1307 | .1210 | .1197 | .1177 | .1148 |
| .100 | 4.29 | .930 | .441 | 7.57 | .1097 | .1033 | .0981 | .0943 | .1122 | .1026 | .1011 | .991 | .962 |
| .120 | 3.00 | .975 | .448 | 9.21 | .1107 | .1043 | .0991 | .0953 | .1132 | .1036 | .1021 | .1001 | .972 |
| .140 | 2.17 | .975 | .448 | 9.32 | .1069 | .1005 | .0953 | .0915 | .1094 | .998 | .987 | .968 | .939 |
| .160 | 1.29 | .974 | .449 | 8.67 | .1031 | .0967 | .0915 | .0877 | .1056 | .950 | .939 | .920 | .891 |
| .180 | .27 | .945 | .450 | 7.23 | .1001 | .0937 | .0885 | .0847 | .1026 | .920 | .909 | .890 | .861 |

LP/V(1/3) = 7.5 LP (FT) = 14.7 40.4 97.0 187.5 14.7 40.4 97.0 187.5

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 3.61 | .962 | .424 | 8.03 | .1171 | .1109 | .1052 | .1014 | .1193 | .1097 | .1083 | .1064 | .1035 |
| .100 | 3.61 | .943 | .437 | 8.17 | .0984 | .0920 | .0868 | .0830 | .1009 | .0913 | .0899 | .0880 | .0851 |
| .120 | 2.77 | .954 | .401 | 9.83 | .1074 | .1010 | .0958 | .0920 | .1099 | .993 | .982 | .963 | .934 |
| .140 | 1.57 | .976 | .421 | 9.34 | .1035 | .0971 | .0919 | .0881 | .1060 | .954 | .943 | .924 | .895 |
| .160 | .90 | .977 | .402 | 8.32 | .0996 | .0932 | .0880 | .0842 | .1021 | .915 | .904 | .885 | .856 |
| .180 | 0.00 | .944 | 0.000 | 7.05 | .0925 | .0861 | .0809 | .0771 | .0950 | .884 | .873 | .854 | .825 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 47.1 92.8 200.0 20.0 47.1 92.8 200.0

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|------|------|------|------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 2.47 | .949 | .223 | 10.11 | .1149 | .0941 | .0892 | .0857 | .1036 | .930 | .919 | .900 | .871 |
| .100 | 2.47 | .930 | 0.000 | 9.50 | .0978 | .0870 | .0820 | .0785 | .0964 | .878 | .867 | .848 | .819 |
| .120 | 1.59 | .976 | 0.000 | 9.50 | .0978 | .0870 | .0820 | .0785 | .0964 | .878 | .867 | .848 | .819 |
| .140 | .72 | .947 | 0.000 | 8.37 | .0926 | .0848 | .0797 | .0759 | .0938 | .852 | .841 | .822 | .793 |
| .160 | .16 | .947 | .568 | 7.94 | .0886 | .0824 | .0776 | .0737 | .0916 | .830 | .819 | .800 | .771 |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.8 96.6 212.5 21.7 45.8 96.6 212.5

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|------|------|------|------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 3.09 | .966 | .271 | 10.19 | .1104 | .0920 | .0851 | .0816 | .0995 | .909 | .898 | .879 | .850 |
| .100 | 3.09 | .947 | .284 | 10.31 | .0931 | .0827 | .0776 | .0741 | .0920 | .834 | .823 | .804 | .775 |
| .120 | 2.22 | .943 | .267 | 10.51 | .1015 | .0827 | .0758 | .0723 | .0902 | .818 | .807 | .788 | .759 |
| .140 | 1.35 | .977 | 0.000 | 10.12 | .0946 | .0842 | .0792 | .0757 | .0936 | .842 | .831 | .812 | .783 |
| .160 | .52 | .945 | 0.000 | 8.62 | .0893 | .0819 | .0767 | .0729 | .0908 | .826 | .815 | .796 | .767 |
| .180 | -.31 | .974 | .205 | 6.35 | .0856 | .0782 | .0730 | .0692 | .0871 | .790 | .779 | .760 | .731 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 44.0 104.4 225.0 22.5 44.0 104.4 225.0

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|------|------|------|------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 2.87 | .951 | .177 | 10.54 | .1059 | .0857 | .0805 | .0770 | .0949 | .813 | .802 | .783 | .754 |
| .100 | 2.87 | .932 | 0.000 | 11.14 | .0892 | .0787 | .0735 | .0700 | .0879 | .783 | .772 | .753 | .724 |
| .120 | 1.16 | .943 | 0.000 | 10.75 | .0924 | .0821 | .0770 | .0735 | .0914 | .808 | .797 | .778 | .749 |
| .140 | .77 | .909 | 0.000 | 8.95 | .0874 | .0771 | .0720 | .0685 | .0864 | .782 | .771 | .752 | .723 |
| .160 | -.44 | .944 | .244 | 6.17 | .0820 | .0717 | .0666 | .0631 | .0810 | .766 | .755 | .736 | .707 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|------|------|------|------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 2.67 | .953 | .174 | 11.00 | .1021 | .0824 | .0772 | .0737 | .0916 | .790 | .779 | .760 | .731 |
| .100 | 2.67 | .934 | 0.000 | 11.74 | .0854 | .0749 | .0698 | .0663 | .0842 | .754 | .743 | .724 | .695 |
| .120 | 1.60 | .941 | 0.000 | 11.34 | .0886 | .0781 | .0730 | .0695 | .0874 | .778 | .767 | .748 | .719 |
| .140 | .93 | .909 | 0.000 | 9.27 | .0834 | .0729 | .0678 | .0643 | .0822 | .762 | .751 | .732 | .703 |
| .160 | -.48 | .945 | .152 | 6.46 | .0780 | .0675 | .0624 | .0589 | .0768 | .746 | .735 | .716 | .687 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.0 25.0 53.8 116.0 249.0

| LOG LP (1/3) | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|--------------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|------|------|------|------|
| LP | (1/3) | LP | LP | V(2/3) | | | | | | | | | |
| .100 | 2.70 | .951 | 0.300 | 11.40 | .1047 | .0841 | .0789 | .0754 | .0933 | .794 | .783 | .764 | .735 |
| .100 | 2.70 | .932 | 0.000 | 12.40 | .0867 | .0762 | .0711 | .0676 | .0855 | .758 | .747 | .728 | .699 |
| .120 | 1.60 | .941 | 0.000 | 11.74 | .0898 | .0793 | .0742 | .0707 | .0886 | .782 | .771 | .752 | .723 |
| .140 | .93 | .909 | 0.000 | 9.27 | .0846 | .0741 | .0690 | .0655 | .0834 | .766 | .755 | .736 | .707 |
| .160 | -.22 | .944 | .197 | 6.46 | .0792 | .0687 | .0636 | .0601 | .0780 | .750 | .739 | .720 | .691 |

RESISTANCE DATA SERIES 64-B MODFL 5104

LP/RPX = 4.69 DEPARTISE ANGLE = 22.5 DEG FNW = 2.50

WEIGHT = LIFT (LP, SEAMATFR) * 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 6.00 | 1.459 | 4.74 | 5.96 | 1.954 | 1.875 | 1.813 | 1.762 | 1.200 | 1.150 | 1.087 | 1.037 |
| 400 | 3.69 | 1.000 | 3.24 | 7.14 | 1.695 | 1.601 | 1.530 | 1.471 | 1.174 | 1.097 | 1.019 | 0.961 |
| 600 | 1.50 | 1.000 | 1.000 | 7.33 | 1.699 | 1.604 | 1.536 | 1.479 | 1.171 | 1.100 | 1.028 | 0.970 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 6.00 | 1.760 | 6.70 | 6.75 | 1.820 | 1.742 | 1.681 | 1.631 | 1.092 | 1.014 | 0.942 | 0.893 |
| 400 | 3.92 | 1.463 | 5.80 | 7.58 | 1.607 | 1.508 | 1.431 | 1.369 | 1.101 | 1.001 | 0.925 | 0.864 |
| 600 | 2.43 | 1.000 | 3.24 | 7.74 | 1.504 | 1.407 | 1.330 | 1.268 | 1.052 | 0.954 | 0.877 | 0.815 |
| 800 | 1.04 | 1.000 | 0.851 | 7.44 | 1.580 | 1.487 | 1.414 | 1.355 | 1.071 | 0.980 | 0.907 | 0.848 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 6.27 | 1.631 | 3.83 | 6.31 | 1.734 | 1.664 | 1.606 | 1.559 | 1.004 | 0.930 | 0.857 | 0.806 |
| 400 | 4.14 | 1.059 | 4.81 | 7.60 | 1.524 | 1.423 | 1.344 | 1.280 | 0.920 | 0.819 | 0.749 | 0.697 |
| 600 | 2.86 | 1.067 | 5.75 | 8.46 | 1.416 | 1.309 | 1.224 | 1.166 | 0.922 | 0.814 | 0.744 | 0.691 |
| 800 | 1.77 | 1.000 | 6.95 | 8.50 | 1.373 | 1.266 | 1.182 | 1.125 | 0.979 | 0.873 | 0.803 | 0.751 |
| 1000 | 0.77 | 1.000 | 6.84 | 7.17 | 1.437 | 1.347 | 1.276 | 1.219 | 1.027 | 0.937 | 0.866 | 0.815 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 5.10 | 1.672 | 3.67 | 6.39 | 1.617 | 1.530 | 1.461 | 1.407 | 0.979 | 0.910 | 0.841 | 0.790 |
| 400 | 3.51 | 1.000 | 4.59 | 8.60 | 1.414 | 1.306 | 1.218 | 1.167 | 0.927 | 0.815 | 0.745 | 0.694 |
| 600 | 2.45 | 1.069 | 5.96 | 9.60 | 1.342 | 1.221 | 1.125 | 1.068 | 0.863 | 0.742 | 0.672 | 0.621 |
| 800 | 1.50 | 1.000 | 6.95 | 9.52 | 1.329 | 1.211 | 1.118 | 1.063 | 0.868 | 0.730 | 0.660 | 0.609 |
| 1000 | 0.52 | 1.000 | 7.10 | 8.69 | 1.411 | 1.309 | 1.229 | 1.165 | 0.966 | 0.845 | 0.775 | 0.724 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 4.31 | 1.721 | 3.56 | 7.00 | 1.499 | 1.388 | 1.306 | 1.241 | 0.949 | 0.865 | 0.793 | 0.742 |
| 400 | 3.00 | 1.000 | 4.97 | 9.77 | 1.364 | 1.240 | 1.142 | 1.063 | 0.866 | 0.762 | 0.691 | 0.640 |
| 600 | 2.15 | 1.063 | 6.79 | 10.29 | 1.329 | 1.200 | 1.098 | 1.016 | 0.858 | 0.742 | 0.672 | 0.621 |
| 800 | 1.20 | 1.000 | 8.06 | 10.01 | 1.323 | 1.196 | 1.096 | 1.016 | 0.864 | 0.742 | 0.672 | 0.621 |
| 1000 | 0.23 | 1.000 | 8.71 | 8.28 | 1.348 | 1.237 | 1.149 | 1.079 | 0.861 | 0.740 | 0.670 | 0.619 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 3.64 | 1.775 | 3.68 | 9.19 | 1.416 | 1.296 | 1.202 | 1.127 | 0.931 | 0.811 | 0.741 | 0.690 |
| 400 | 2.75 | 1.004 | 5.69 | 10.24 | 1.361 | 1.230 | 1.127 | 1.045 | 0.849 | 0.729 | 0.659 | 0.608 |
| 600 | 1.87 | 1.069 | 8.30 | 10.44 | 1.317 | 1.193 | 1.097 | 0.992 | 0.847 | 0.733 | 0.663 | 0.612 |
| 800 | 1.04 | 1.000 | 9.91 | 9.91 | 1.285 | 1.155 | 1.052 | 0.970 | 0.809 | 0.695 | 0.625 | 0.574 |
| 1000 | 0.14 | 1.000 | 10.4 | 8.75 | 1.265 | 1.140 | 1.035 | 0.961 | 0.804 | 0.690 | 0.620 | 0.569 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.9 98.6 212.5 21.2 45.9 98.6 212.5

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 3.10 | 1.792 | 3.64 | 10.05 | 1.402 | 1.273 | 1.171 | 1.090 | 0.928 | 0.809 | 0.739 | 0.688 |
| 400 | 2.46 | 1.499 | 5.69 | 10.58 | 1.349 | 1.212 | 1.104 | 1.018 | 0.841 | 0.724 | 0.654 | 0.603 |
| 600 | 1.63 | 1.065 | 8.00 | 10.32 | 1.273 | 1.135 | 1.026 | 0.939 | 0.802 | 0.686 | 0.616 | 0.565 |
| 800 | 0.80 | 1.000 | 9.62 | 9.72 | 1.221 | 1.088 | 0.984 | 0.901 | 0.742 | 0.626 | 0.556 | 0.505 |
| 1000 | 0.09 | 1.000 | 10.14 | 8.98 | 1.205 | 1.090 | 0.996 | 0.921 | 0.761 | 0.645 | 0.575 | 0.524 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 3.04 | 1.787 | 3.61 | 10.60 | 1.381 | 1.244 | 1.137 | 1.051 | 0.917 | 0.801 | 0.731 | 0.680 |
| 400 | 2.16 | 1.005 | 6.70 | 10.81 | 1.274 | 1.131 | 1.019 | 0.929 | 0.795 | 0.679 | 0.609 | 0.558 |
| 600 | 1.32 | 1.000 | 10.35 | 10.35 | 1.174 | 1.036 | 0.925 | 0.835 | 0.700 | 0.584 | 0.514 | 0.463 |
| 800 | 0.59 | 1.000 | 9.62 | 9.62 | 1.144 | 1.016 | 0.912 | 0.830 | 0.695 | 0.579 | 0.509 | 0.458 |
| 1000 | -0.12 | 1.000 | 10.14 | 8.91 | 1.166 | 1.070 | 0.978 | 0.905 | 0.769 | 0.653 | 0.583 | 0.532 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 2.86 | 1.786 | 3.61 | 11.09 | 1.371 | 1.230 | 1.117 | 1.027 | 0.900 | 0.784 | 0.714 | 0.663 |
| 400 | 1.95 | 1.000 | 11.63 | 10.58 | 1.245 | 1.091 | 0.970 | 0.874 | 0.748 | 0.632 | 0.562 | 0.511 |
| 600 | 1.15 | 1.000 | 11.24 | 10.24 | 1.173 | 1.022 | 0.904 | 0.810 | 0.684 | 0.568 | 0.498 | 0.447 |
| 800 | 0.47 | 1.000 | 9.97 | 9.97 | 1.149 | 1.057 | 0.953 | 0.870 | 0.744 | 0.628 | 0.558 | 0.507 |
| 1000 | -0.09 | 1.000 | 10.39 | 8.14 | 1.277 | 1.172 | 1.069 | 0.982 | 0.846 | 0.730 | 0.660 | 0.609 |
| 1500 | -0.49 | 1.000 | 10.79 | 6.41 | 1.391 | 1.241 | 1.148 | 1.077 | 0.941 | 0.825 | 0.755 | 0.704 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LOG LP (FPS) | TRIM LP | LK LP | LC LP | S LP | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|-------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| 300 | 2.62 | 1.779 | 3.61 | 11.71 | 1.294 | 1.141 | 1.021 | 0.924 | 0.800 | 0.684 | 0.614 | 0.563 |
| 400 | 1.74 | 1.000 | 12.24 | 10.64 | 1.187 | 1.022 | 0.901 | 0.807 | 0.681 | 0.565 | 0.495 | 0.444 |
| 600 | 1.01 | 1.000 | 10.00 | 10.00 | 1.146 | 1.010 | 0.886 | 0.796 | 0.670 | 0.554 | 0.484 | 0.433 |
| 800 | 0.29 | 1.000 | 10.00 | 10.00 | 1.239 | 1.110 | 0.987 | 0.906 | 0.780 | 0.664 | 0.594 | 0.543 |
| 1000 | -0.17 | 1.000 | 10.00 | 6.74 | 1.177 | 1.041 | 0.923 | 0.842 | 0.716 | 0.600 | 0.530 | 0.479 |

RESISTANCE DATA SERIES 65-B MODEL 5146

LP/DPX = 4.69 DEADRIFT ANGLE = 22.5 DEG FNV = 3.00

LEIGH. LIFT (LB. SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.9 LP (FT) = 16.2 35.0 75.5 162.5 16.2 35.0 75.4 162.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.66 | .578 | .335 | 4.66 | .1714 | .1622 | .1551 | .1492 | .1794 | .1706 | .1634 | .1576 |
| .340 | 3.94 | .784 | .423 | 6.43 | .1643 | .1523 | .1429 | .1354 | .1759 | .1637 | .1545 | .1469 |
| .380 | 2.62 | .899 | .507 | 7.85 | .1623 | .1482 | .1370 | .1280 | .1764 | .1623 | .1511 | .1422 |
| .420 | 0.00 | .929 | .932 | 6.91 | .1940 | .1821 | .1727 | .1651 | .2065 | .1947 | .1853 | .1777 |

LP/V(1/3) = 7.11 LP (FT) = 17.5 37.7 81.2 175.0 17.9 17.7 81.2 175.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.50 | .577 | .315 | 5.40 | .1833 | .1728 | .1645 | .1578 | .1930 | .1825 | .1742 | .1676 |
| .340 | 3.95 | .793 | .372 | 7.07 | .1741 | .1621 | .1518 | .1435 | .1879 | .1744 | .1645 | .1563 |
| .380 | 3.00 | .937 | .423 | 8.42 | .1764 | .1612 | .1492 | .1395 | .1917 | .1765 | .1645 | .1547 |
| .420 | 1.15 | .974 | .593 | 9.35 | .1730 | .1568 | .1440 | .1337 | .1899 | .1737 | .1608 | .1505 |
| .460 | .63 | .989 | .713 | 8.66 | .1885 | .1737 | .1620 | .1526 | .2041 | .1893 | .1776 | .1682 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .634 | .300 | 6.57 | .1733 | .1608 | .1509 | .1430 | .1851 | .1726 | .1627 | .1548 |
| .340 | 3.50 | .889 | .333 | 8.75 | .1741 | .1590 | .1471 | .1376 | .1889 | .1738 | .1619 | .1524 |
| .380 | 2.57 | .923 | .430 | 9.57 | .1728 | .1559 | .1426 | .1319 | .1900 | .1731 | .1598 | .1491 |
| .420 | 1.65 | .966 | .542 | 10.20 | .1720 | .1544 | .1405 | .1293 | .1903 | .1724 | .1588 | .1476 |
| .460 | .57 | .991 | .419 | 9.35 | .1856 | .1693 | .1564 | .1460 | .2025 | .1861 | .1732 | .1628 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.16 | .645 | .268 | 7.63 | .1761 | .1617 | .1503 | .1412 | .1949 | .1754 | .1640 | .1550 |
| .340 | 3.17 | .817 | .320 | 9.28 | .1753 | .1586 | .1454 | .1348 | .1920 | .1753 | .1621 | .1515 |
| .380 | 2.41 | .936 | .419 | 10.55 | .1749 | .1564 | .1419 | .1301 | .1938 | .1754 | .1599 | .1491 |
| .420 | 1.50 | .972 | .480 | 11.40 | .1760 | .1565 | .1410 | .1286 | .1966 | .1770 | .1615 | .1491 |
| .460 | 0.00 | .990 | 0.000 | 8.39 | .1870 | .1712 | .1588 | .1488 | .2021 | .1863 | .1739 | .1639 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.81 | .663 | .257 | 8.61 | .1740 | .1619 | .1495 | .1391 | .1934 | .1774 | .1644 | .1546 |
| .340 | 2.72 | .811 | .321 | 10.19 | .1765 | .1594 | .1440 | .1325 | .1944 | .1767 | .1627 | .1508 |
| .380 | 2.28 | .937 | .381 | 11.58 | .1774 | .1575 | .1416 | .1287 | .1984 | .1783 | .1624 | .1496 |
| .420 | 1.37 | .979 | .388 | 12.50 | .1789 | .1575 | .1405 | .1264 | .2014 | .1800 | .1630 | .1497 |
| .460 | -.21 | .953 | 0.000 | 7.60 | .1758 | .1613 | .1498 | .1407 | .1895 | .1750 | .1635 | .1544 |

LP/V(1/3) = 9.0 LP (FT) = 22.9 48.5 104.4 225.0 22.9 48.5 104.4 225.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.49 | .676 | .263 | 9.53 | .1757 | .1683 | .1465 | .1335 | .1979 | .1754 | .1616 | .1506 |
| .340 | 2.72 | .804 | .301 | 11.22 | .1749 | .1650 | .1393 | .1267 | .1950 | .1752 | .1568 | .1469 |
| .380 | 1.99 | .912 | .246 | 12.70 | .1744 | .1623 | .1348 | .1207 | .1972 | .1751 | .1576 | .1436 |
| .420 | 1.11 | .945 | .220 | 13.03 | .1732 | .1606 | .1327 | .1183 | .1966 | .1740 | .1561 | .1417 |
| .460 | -.07 | .972 | 0.000 | 9.00 | .1705 | .1546 | .1418 | .1315 | .1970 | .1788 | .1580 | .1477 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 231.4 23.7 51.2 110.2 231.4

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.21 | .671 | .252 | 10.35 | .1801 | .1613 | .1464 | .1355 | .1987 | .1799 | .1651 | .1531 |
| .340 | 2.55 | .802 | .229 | 12.10 | .1795 | .1590 | .1410 | .1274 | .2013 | .1798 | .1628 | .1491 |
| .380 | 1.79 | .925 | .140 | 13.25 | .1759 | .1525 | .1340 | .1192 | .1988 | .1764 | .1579 | .1430 |
| .420 | .94 | 1.000 | 0.000 | 12.96 | .1719 | .1489 | .1308 | .1163 | .1951 | .1722 | .1541 | .1396 |
| .460 | -.08 | .968 | .052 | 7.75 | .1716 | .1550 | .1419 | .1314 | .1957 | .1717 | .1547 | .1441 |

LP/V(1/3) = 10.0 LP (FT) = 25.1 53.8 116.0 249.9 25.1 53.8 116.0 249.9

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.09 | .660 | .230 | 11.25 | .1819 | .1615 | .1454 | .1325 | .2021 | .1817 | .1656 | .1527 |
| .340 | 2.35 | .811 | .136 | 12.95 | .1767 | .1535 | .1352 | .1205 | .2000 | .1768 | .1585 | .1434 |
| .380 | 1.51 | .959 | 0.000 | 13.56 | .1674 | .1435 | .1244 | .1090 | .1921 | .1679 | .1484 | .1334 |
| .420 | .75 | 1.000 | 0.000 | 12.51 | .1646 | .1422 | .1245 | .1103 | .1971 | .1647 | .1470 | .1329 |
| .460 | -.09 | .964 | .022 | 9.07 | .1741 | .1581 | .1453 | .1351 | .1904 | .1744 | .1516 | .1414 |

RESISTANCE DATA SERIES 65-B MODEL 5144

LP/SPX = 4.60 DEPARTURE ANGLE = 22.5 DEG FNU = 3.50

HEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.8 47.7 91.2 175.0 17.8 47.7 91.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.07 | .565 | .250 | 5.03 | .1940 | .1809 | .1704 | .1622 | .2063 | .1931 | .1829 | .1745 |
| .340 | 4.57 | .650 | .307 | 6.01 | .2020 | .1868 | .1745 | .1652 | .2168 | .2015 | .1895 | .1795 |
| .380 | 3.09 | .746 | .340 | 7.65 | .2077 | .1895 | .1730 | .1610 | .2269 | .2073 | .1925 | .1806 |
| .420 | 3.10 | .931 | .400 | 9.79 | .2136 | .1912 | .1737 | .1595 | .2364 | .2142 | .1966 | .1825 |
| .460 | 2.17 | 1.000 | .490 | 10.31 | .2267 | .2030 | .1841 | .1690 | .2520 | .2282 | .2094 | .1942 |
| .500 | 1.04 | .927 | .672 | 8.61 | .2591 | .2396 | .2239 | .2114 | .2901 | .2605 | .2450 | .2325 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.75 | .574 | .237 | 5.75 | .2065 | .1915 | .1799 | .1705 | .2206 | .2057 | .1940 | .1846 |
| .340 | 4.24 | .673 | .269 | 6.90 | .2145 | .1972 | .1836 | .1726 | .2314 | .2141 | .2005 | .1895 |
| .380 | 3.69 | .796 | .300 | 8.34 | .2230 | .2028 | .1868 | .1730 | .2434 | .2232 | .2072 | .1943 |
| .420 | 3.10 | .921 | .330 | 9.75 | .2330 | .2100 | .1918 | .1771 | .2569 | .2339 | .2157 | .2019 |
| .460 | 2.39 | 1.000 | .398 | 10.86 | .2454 | .2204 | .2006 | .1847 | .2720 | .2470 | .2272 | .2113 |
| .500 | 1.50 | 1.000 | .577 | 10.65 | .2617 | .2377 | .2182 | .2027 | .2874 | .2634 | .2442 | .2280 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 216.0 20.0 43.1 92.8 216.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.01 | .609 | .200 | 6.72 | .1973 | .1767 | .1627 | .1518 | .2004 | .1926 | .1791 | .1683 |
| .340 | 3.45 | .726 | .227 | 8.00 | .2046 | .1846 | .1699 | .1567 | .2244 | .2144 | .1987 | .1760 |
| .380 | 2.94 | .821 | .252 | 9.17 | .2141 | .1921 | .1746 | .1606 | .2366 | .2145 | .1971 | .1830 |
| .420 | 2.50 | .878 | .291 | 9.79 | .2195 | .1964 | .1781 | .1634 | .2435 | .2200 | .2021 | .1873 |
| .460 | 1.50 | .963 | .355 | 10.39 | .2337 | .2097 | .1907 | .1754 | .2591 | .2352 | .2162 | .2009 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 217.5 21.2 45.8 94.6 217.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.55 | .634 | .175 | 7.62 | .1930 | .1738 | .1597 | .1465 | .2117 | .1925 | .1777 | .1652 |
| .340 | 3.00 | .737 | .197 | 8.90 | .2039 | .1821 | .1649 | .1511 | .2256 | .2079 | .1867 | .1729 |
| .380 | 2.43 | .826 | .241 | 9.95 | .2091 | .1854 | .1656 | .1516 | .2374 | .2108 | .1885 | .1759 |
| .420 | 1.83 | .903 | .267 | 10.75 | .2166 | .1915 | .1716 | .1556 | .2429 | .2178 | .1970 | .1819 |
| .460 | 0.800 | .977 | .242 | 11.15 | .2341 | .2081 | .1879 | .1714 | .2614 | .2356 | .2152 | .1987 |
| .500 | .17 | 1.004 | .061 | 10.49 | .2805 | .2559 | .2361 | .2203 | .3782 | .3414 | .3181 | .2460 |

LP/V(1/3) = 9.0 LP (FT) = 22.6 48.5 104.4 225.0 22.6 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.39 | .642 | .172 | 8.36 | .2045 | .1832 | .1664 | .1529 | .2255 | .2042 | .1874 | .1739 |
| .340 | 2.95 | .722 | .192 | 9.67 | .2119 | .1884 | .1698 | .1566 | .2356 | .2111 | .1935 | .1786 |
| .380 | 2.75 | .751 | .209 | 11.24 | .2150 | .1905 | .1710 | .1554 | .2401 | .2155 | .1961 | .1805 |
| .420 | 2.09 | .878 | .245 | 11.82 | .2247 | .1972 | .1754 | .1579 | .2536 | .2262 | .2044 | .1888 |
| .460 | 1.55 | 1.000 | .046 | 11.96 | .2454 | .2173 | .1950 | .1770 | .2747 | .2465 | .2242 | .2063 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.17 | .640 | .174 | 9.78 | .2117 | .1887 | .1705 | .1559 | .2347 | .2116 | .1974 | .1788 |
| .340 | 2.99 | .672 | .183 | 9.88 | .2148 | .1907 | .1717 | .1565 | .2390 | .2149 | .1959 | .1807 |
| .380 | 2.83 | .788 | .192 | 10.50 | .2181 | .1929 | .1729 | .1568 | .2478 | .2185 | .1985 | .1825 |
| .420 | 2.02 | .876 | .210 | 13.10 | .2339 | .2036 | .1795 | .1502 | .2659 | .2356 | .2116 | .1922 |
| .460 | 0.00 | .973 | 0.000 | 10.26 | .2523 | .2273 | .2076 | .1917 | .2774 | .2524 | .2327 | .2168 |

LP/V(1/3) = -10.0 LP (FT) = 25.3 57.8 116.0 249.9 25.3 57.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .633 | .183 | 10.28 | .2131 | .1881 | .1693 | .1525 | .2383 | .2133 | .1944 | .1776 |
| .340 | 2.84 | .670 | .182 | 10.97 | .2164 | .1999 | .1690 | .1522 | .2432 | .2168 | .1969 | .1791 |
| .380 | 2.50 | .751 | .174 | 12.38 | .2233 | .1940 | .1708 | .1521 | .2537 | .2243 | .2011 | .1825 |
| .420 | 1.50 | .958 | .114 | 15.14 | .2414 | .2067 | .1791 | .1569 | .2745 | .2477 | .2162 | .1939 |
| .460 | -1.15 | .949 | 0.000 | 9.21 | .2504 | .2287 | .2115 | .1976 | .2730 | .2512 | .2341 | .2202 |

RESISTANCE DATA SERIES 65-B MODEL 51A4

LP/SPX = 4.69 DEADRISE ANGLE = 22.5 DEG FNV = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.83 | .042 | .470 | 2.41 | .0209 | .0122 | .0053 | .0000 | .0286 | .0199 | .0130 | .0076 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.00 | .607 | .164 | 6.62 | .2304 | .2087 | .1916 | .1779 | .2516 | .2299 | .2128 | .1991 |
| .340 | 3.66 | .692 | .193 | 7.66 | .2475 | .2231 | .2038 | .1884 | .2720 | .2476 | .2284 | .2129 |
| .380 | 3.37 | .764 | .222 | 8.55 | .2627 | .2361 | .2151 | .1991 | .2901 | .2635 | .2424 | .2255 |
| .420 | 3.10 | .831 | .256 | 9.40 | .2777 | .2491 | .2264 | .2081 | .3078 | .2791 | .2564 | .2382 |
| .460 | 2.83 | .897 | .301 | 10.14 | .2879 | .2575 | .2334 | .2140 | .3207 | .2899 | .2659 | .2465 |
| .500 | 2.48 | .949 | .374 | 11.03 | .2985 | .2665 | .2408 | .2201 | .3340 | .3017 | .2760 | .2553 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.77 | .608 | .142 | 7.10 | .2409 | .2179 | .1996 | .1850 | .2637 | .2406 | .2223 | .2077 |
| .340 | 3.46 | .695 | .175 | 8.19 | .2586 | .2327 | .2122 | .1958 | .2847 | .2589 | .2384 | .2220 |
| .380 | 3.10 | .751 | .206 | 9.12 | .2741 | .2459 | .2236 | .2057 | .3033 | .2761 | .2528 | .2348 |
| .420 | 2.88 | .817 | .243 | 10.09 | .2876 | .2571 | .2329 | .2134 | .3199 | .2904 | .2652 | .2457 |
| .460 | 2.47 | .888 | .297 | 11.20 | .2980 | .2649 | .2386 | .2174 | .3338 | .3007 | .2744 | .2533 |
| .500 | 2.05 | .954 | .387 | 12.18 | .3136 | .2783 | .2503 | .2277 | .3525 | .3173 | .2892 | .2666 |

LP/V(1/3) = 9.0 LP (FT) = 23.5 48.5 104.4 225.0 23.5 48.5 104.4 225.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.21 | .597 | .120 | 7.43 | .2076 | .1836 | .1646 | .1494 | .2314 | .2073 | .1884 | .1731 |
| .340 | 2.95 | .654 | .154 | 8.50 | .2179 | .1910 | .1698 | .1528 | .2450 | .2187 | .1978 | .1800 |
| .380 | 2.41 | .737 | .180 | 9.69 | .2242 | .1943 | .1706 | .1516 | .2552 | .2253 | .2016 | .1826 |
| .420 | 1.97 | .811 | .198 | 10.77 | .2376 | .2051 | .1793 | .1585 | .2721 | .2396 | .2137 | .1930 |
| .460 | 1.55 | .890 | .223 | 11.72 | .2632 | .2285 | .2018 | .1788 | .3006 | .2669 | .2384 | .2162 |
| .500 | 1.15 | .968 | .288 | 12.50 | .3036 | .2673 | .2385 | .2152 | .3436 | .3073 | .2784 | .2552 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.08 | .579 | .141 | 8.17 | .2205 | .1944 | .1739 | .1573 | .2465 | .2205 | .1999 | .1834 |
| .340 | 2.72 | .656 | .163 | 9.53 | .2298 | .2008 | .1765 | .1576 | .2607 | .2305 | .2078 | .1881 |
| .380 | 2.34 | .739 | .177 | 10.96 | .2397 | .2063 | .1798 | .1585 | .2748 | .2404 | .2149 | .1936 |
| .420 | 1.95 | .821 | .187 | 12.25 | .2544 | .2179 | .1888 | .1655 | .2936 | .2570 | .2280 | .2046 |
| .460 | 1.56 | .901 | .194 | 13.34 | .2774 | .2387 | .2072 | .1821 | .3201 | .2809 | .2498 | .2247 |
| .500 | 1.15 | .978 | .198 | 14.14 | .3134 | .2725 | .2409 | .2138 | .3587 | .3178 | .2852 | .2590 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.07 | .582 | .153 | 9.17 | .2464 | .2175 | .1946 | .1762 | .2757 | .2468 | .2239 | .2055 |
| .340 | 2.97 | .604 | .182 | 9.64 | .2563 | .2201 | .1963 | .1771 | .2811 | .2509 | .2271 | .2079 |
| .380 | 2.89 | .623 | .188 | 10.05 | .2637 | .2280 | .1973 | .1774 | .2856 | .2541 | .2295 | .2096 |
| .420 | 2.81 | .695 | .186 | 11.56 | .2648 | .2296 | .2018 | .1794 | .2917 | .2565 | .2308 | .2164 |
| .460 | 1.95 | .867 | .206 | 14.71 | .2949 | .2520 | .2179 | .1904 | .3300 | .2903 | .2649 | .2374 |
| .500 | .74 | 1.000 | .135 | 16.14 | .3592 | .3130 | .2762 | .2465 | .4108 | .3645 | .3279 | .2982 |

RESISTANCE DATA SERIES 65-B MODFL 5167

LP/BPX = 6.64 DEPARTURE ANGLE = 22.5 DEG FWD = 1.00

HEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 117.2 175.0 17.5 37.7 117.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.24 | .959 | .601 | 7.10 | .0575 | .0558 | .0544 | .0533 | .0549 | .0522 | .0558 | .0548 |
| .340 | 1.87 | .989 | .779 | 7.40 | .0421 | .0404 | .0390 | .0379 | .0436 | .0419 | .0405 | .0394 |
| .380 | .50 | .995 | .961 | 7.50 | .0329 | .0303 | .0289 | .0278 | .0335 | .0318 | .0304 | .0293 |
| .420 | -.44 | 1.000 | 1.000 | 7.64 | .0327 | .0310 | .0296 | .0285 | .0343 | .0325 | .0311 | .0300 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 121.5 187.5 18.7 40.4 121.5 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.62 | .977 | .543 | 7.64 | .0476 | .0458 | .0443 | .0432 | .0491 | .0473 | .0458 | .0447 |
| .340 | 1.50 | .984 | .643 | 7.90 | .0327 | .0308 | .0294 | .0282 | .0343 | .0324 | .0309 | .0298 |
| .380 | .38 | .988 | .728 | 8.09 | .0266 | .0247 | .0232 | .0221 | .0283 | .0263 | .0249 | .0237 |

LP/V(1/3) = 1.0 LP (FT) = 20.1 43.1 126.0 200.0 20.1 43.1 126.0 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.12 | .977 | .475 | 8.29 | .0341 | .0321 | .0305 | .0293 | .0398 | .0378 | .0362 | .0350 |
| .340 | 1.15 | .981 | .516 | 8.66 | .0257 | .0237 | .0220 | .0208 | .0275 | .0254 | .0238 | .0225 |
| .380 | .25 | .987 | .569 | 8.99 | .0233 | .0212 | .0195 | .0182 | .0251 | .0230 | .0213 | .0200 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.0 131.5 212.5 21.2 45.0 131.5 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.82 | .970 | .409 | 8.84 | .0324 | .0307 | .0290 | .0277 | .0346 | .0324 | .0309 | .0295 |
| .340 | .96 | .982 | .371 | 9.27 | .0219 | .0197 | .0179 | .0165 | .0238 | .0215 | .0198 | .0184 |
| .380 | .16 | .989 | .244 | 9.51 | .0195 | .0172 | .0154 | .0139 | .0214 | .0191 | .0173 | .0158 |

LP/V(1/3) = 9.E LP (FT) = 22.5 48.5 136.0 225.0 22.5 48.5 136.0 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.58 | .959 | .323 | 9.76 | .0280 | .0257 | .0240 | .0226 | .0299 | .0276 | .0258 | .0244 |
| .340 | .81 | .989 | .218 | 9.69 | .0191 | .0157 | .0139 | .0124 | .0200 | .0176 | .0158 | .0143 |
| .380 | .00 | .989 | 0.000 | 9.77 | .0175 | .0150 | .0131 | .0115 | .0184 | .0160 | .0150 | .0135 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 139.2 237.4 23.7 51.2 139.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.30 | .978 | .228 | 10.05 | .0214 | .0190 | .0171 | .0156 | .0234 | .0210 | .0191 | .0176 |
| .340 | .75 | .999 | .151 | 10.31 | .0138 | .0113 | .0093 | .0077 | .0154 | .0133 | .0114 | .0098 |
| .380 | 0.00 | .984 | 0.000 | 10.08 | .0178 | .0152 | .0132 | .0115 | .0198 | .0172 | .0152 | .0136 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 146.0 249.9 25.0 53.8 146.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.32 | .994 | .133 | 10.36 | .0182 | .0156 | .0137 | .0121 | .0202 | .0177 | .0157 | .0142 |
| .340 | .81 | 1.100 | .091 | 10.61 | .0117 | .0092 | .0071 | .0055 | .0179 | .0153 | .0133 | .0117 |
| .380 | 0.00 | .981 | 0.000 | 11.39 | .0165 | .0140 | .0120 | .0104 | .0187 | .0161 | .0141 | .0125 |

RESISTANCE DATA SERIES 65-9 MODEL 5167

LP/RPX = 6.64 DEPARTURE ANGLE = 22.5 DEG FNO = 1.25

WEIGHT = LIFT (LR, SEAWATER) = 100 1000 10000 100000 1000 1000 130000 100000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.01 | .940 | .614 | 6.64 | .0940 | .0916 | .0897 | .0882 | .0969 | .0936 | .0918 | .0903 | |
| .340 | 2.61 | .982 | .747 | 7.68 | .0729 | .0704 | .0684 | .0669 | .0751 | .0726 | .0706 | .0691 | |
| .380 | 1.21 | .991 | 1.000 | 7.49 | .0558 | .0532 | .0512 | .0496 | .0581 | .0556 | .0535 | .0519 | |
| .420 | 0.00 | 1.000 | 1.000 | 7.77 | .0476 | .0450 | .0429 | .0412 | .0501 | .0474 | .0453 | .0436 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.31 | .947 | .549 | 7.26 | .0924 | .0798 | .0778 | .0761 | .0847 | .0821 | .0800 | .0784 | |
| .340 | 2.86 | .983 | .662 | 7.77 | .0605 | .0578 | .0556 | .0539 | .0630 | .0602 | .0581 | .0563 | |
| .380 | .89 | .984 | .796 | 8.10 | .0458 | .0424 | .0402 | .0385 | .0478 | .0450 | .0427 | .0410 | |
| .420 | -.19 | 1.000 | .850 | 8.17 | .0474 | .0446 | .0424 | .0406 | .0500 | .0471 | .0449 | .0432 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 47.1 92.8 200.0 20.0 47.1 92.8 200.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.86 | .966 | .495 | 8.01 | .0690 | .0661 | .0639 | .0621 | .0715 | .0686 | .0664 | .0646 | |
| .340 | 1.62 | .980 | .599 | 8.38 | .0494 | .0464 | .0440 | .0422 | .0520 | .0499 | .0466 | .0448 | |
| .380 | .69 | .981 | .537 | 8.76 | .0401 | .0370 | .0346 | .0326 | .0429 | .0399 | .0373 | .0354 | |
| .420 | -.40 | 1.000 | .600 | 9.46 | .0487 | .0454 | .0428 | .0407 | .0517 | .0484 | .0458 | .0437 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.1 98.6 212.5 21.2 45.1 98.6 212.5

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.22 | .961 | .428 | 8.55 | .0597 | .0561 | .0533 | .0514 | .0614 | .0587 | .0560 | .0540 | |
| .340 | 1.35 | .977 | .402 | 8.94 | .0453 | .0421 | .0395 | .0376 | .0480 | .0448 | .0423 | .0403 | |
| .380 | .62 | .984 | .311 | 9.36 | .0366 | .0332 | .0305 | .0284 | .0395 | .0361 | .0334 | .0313 | |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.92 | .955 | .351 | 9.10 | .0535 | .0502 | .0477 | .0456 | .0567 | .0531 | .0505 | .0485 | |
| .340 | 1.15 | .982 | .288 | 9.52 | .0397 | .0363 | .0336 | .0315 | .0427 | .0393 | .0366 | .0344 | |
| .380 | .38 | .991 | .193 | 9.77 | .0310 | .0274 | .0245 | .0223 | .0340 | .0304 | .0276 | .0253 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.45 | .961 | .259 | 9.88 | .0429 | .0393 | .0365 | .0347 | .0469 | .0433 | .0396 | .0374 | |
| .340 | 1.03 | .987 | .198 | 10.28 | .0296 | .0259 | .0230 | .0207 | .0328 | .0291 | .0262 | .0239 | |
| .380 | .71 | .996 | .166 | 10.32 | .0249 | .0211 | .0181 | .0157 | .0281 | .0243 | .0213 | .0189 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| CGG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|-------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| (DEG) | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.5 | .971 | .154 | 10.33 | .0341 | .0307 | .0273 | .0250 | .0377 | .0335 | .0296 | .0282 | |
| .340 | .97 | 1.000 | .110 | 10.67 | .0226 | .0187 | .0157 | .0133 | .0259 | .0221 | .0190 | .0166 | |
| .380 | .27 | 1.000 | .035 | 10.64 | .0206 | .0167 | .0137 | .0112 | .0240 | .0200 | .0171 | .0145 | |

RESISTANCE DATA STRIPS 65-B MODEL 5167

LP/DPX = 6.64 DEADRISF ANGLE = 22.5 DFG FNO = 1.51

WEIGHT = LIFT (LR, SEAWATER) = 1700 10000 100000 1000000 1700 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.21 | .912 | .613 | 6.78 | .1966 | .1034 | .1009 | .0989 | .1006 | .1063 | .1037 | .1017 |
| .340 | 3.87 | .976 | .794 | 6.68 | .0959 | .0826 | .0799 | .0779 | .0789 | .0955 | .0929 | .0909 |
| .380 | 1.63 | .990 | .956 | 7.44 | .0699 | .0662 | .0634 | .0611 | .0731 | .0606 | .0587 | .0565 |
| .420 | .48 | .996 | 1.000 | 7.10 | .0606 | .0569 | .0540 | .0516 | .0641 | .0614 | .0579 | .0551 |

LP/V(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.54 | .921 | .566 | 7.05 | .1953 | .1017 | .1000 | .0867 | .0994 | .0949 | .0921 | .0899 |
| .340 | 2.32 | .981 | .697 | 7.69 | .0750 | .0712 | .0683 | .0659 | .0784 | .0747 | .0717 | .0694 |
| .380 | 1.25 | .992 | .843 | 8.07 | .0597 | .0559 | .0528 | .0504 | .0634 | .0595 | .0565 | .0540 |
| .420 | .24 | .991 | .955 | 8.01 | .0546 | .0508 | .0478 | .0455 | .0582 | .0544 | .0514 | .0491 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.09 | .945 | .523 | 7.88 | .1957 | .1018 | .1007 | .0762 | .0892 | .0851 | .0822 | .0798 |
| .340 | 1.89 | .982 | .648 | 8.33 | .0649 | .0609 | .0576 | .0550 | .0686 | .0646 | .0613 | .0588 |
| .380 | .97 | .985 | .890 | 8.61 | .0532 | .0490 | .0457 | .0431 | .0571 | .0529 | .0496 | .0469 |
| .420 | 0.00 | .993 | .950 | 8.92 | .0524 | .0481 | .0447 | .0420 | .0564 | .0521 | .0487 | .0460 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.48 | .947 | .459 | 8.48 | .0746 | .0704 | .0671 | .0645 | .0784 | .0742 | .0710 | .0683 |
| .340 | 1.28 | .978 | .477 | 9.64 | .0592 | .0540 | .0514 | .0487 | .0632 | .0588 | .0554 | .0528 |
| .380 | .79 | .986 | .762 | 9.16 | .0500 | .0455 | .0419 | .0390 | .0542 | .0496 | .0460 | .0432 |
| .420 | -.00 | .991 | .886 | 9.65 | .0473 | .0424 | .0385 | .0354 | .0516 | .0467 | .0428 | .0397 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.11 | .938 | .386 | 9.03 | .0694 | .0649 | .0614 | .0586 | .0735 | .0690 | .0655 | .0627 |
| .340 | 1.36 | .973 | .327 | 9.45 | .0548 | .0502 | .0465 | .0435 | .0591 | .0544 | .0507 | .0478 |
| .380 | .66 | .987 | .193 | 9.73 | .0456 | .0407 | .0368 | .0337 | .0500 | .0450 | .0412 | .0381 |
| .420 | -.23 | .986 | 0.000 | 9.09 | .0433 | .0379 | .0337 | .0303 | .0477 | .0423 | .0381 | .0348 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.85 | .917 | .296 | 9.77 | .0609 | .0560 | .0522 | .0492 | .0653 | .0604 | .0566 | .0536 |
| .340 | 1.21 | .977 | .238 | 10.24 | .0454 | .0403 | .0363 | .0331 | .0500 | .0450 | .0409 | .0377 |
| .380 | .57 | .993 | .139 | 10.40 | .0373 | .0320 | .0279 | .0246 | .0419 | .0367 | .0326 | .0293 |
| .420 | -.42 | .984 | 0.000 | 9.74 | .0493 | .0440 | .0398 | .0365 | .0535 | .0483 | .0442 | .0409 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DFG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.65 | .951 | .182 | 10.31 | .0510 | .0458 | .0418 | .0386 | .0536 | .0485 | .0444 | .0412 |
| .340 | 1.10 | .993 | .130 | 10.77 | .0364 | .0310 | .0268 | .0235 | .0412 | .0358 | .0316 | .0283 |
| .380 | .47 | 1.000 | .060 | 10.78 | .0303 | .0249 | .0206 | .0172 | .0352 | .0297 | .0255 | .0221 |

RESISTANCE DATA SERIES 65-B MODEL 5167

LP/PPX = 6.64 DEAPRISE ANGLE = 22.5 DEG FNV = 1.75

WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.27 | .883 | .589 | 6.23 | .1135 | .1093 | .1061 | .1034 | .1173 | .1121 | .1099 | .1072 |
| .340 | 3.00 | .970 | .675 | 6.53 | .0951 | .0908 | .0874 | .0847 | .0991 | .0948 | .0914 | .0887 |
| .380 | 1.78 | .986 | .916 | 7.40 | .0799 | .0751 | .0714 | .0684 | .0843 | .0796 | .0759 | .0730 |
| .420 | .81 | 1.000 | 1.000 | 11.19 | .0741 | .0690 | .0650 | .0618 | .0792 | .0740 | .0700 | .0668 |
| .460 | .13 | 1.000 | 1.000 | 8.60 | .0755 | .0702 | .0660 | .0626 | .0809 | .0756 | .0713 | .0679 |
| .500 | -.17 | 1.000 | 1.000 | 8.87 | .0780 | .0725 | .0682 | .0647 | .0824 | .0770 | .0736 | .0701 |

LP/V(1/3) = 1.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.50 | .904 | .563 | 6.90 | .1020 | .0974 | .0938 | .0910 | .1062 | .1016 | .0981 | .0952 |
| .340 | 2.40 | .979 | .708 | 7.62 | .0843 | .0794 | .0755 | .0724 | .0889 | .0840 | .0802 | .0771 |
| .380 | 1.51 | .983 | .962 | 8.07 | .0731 | .0680 | .0640 | .0608 | .0781 | .0730 | .0690 | .0658 |
| .420 | -.44 | .984 | 1.000 | 8.23 | .0659 | .0608 | .0568 | .0535 | .0709 | .0658 | .0618 | .0586 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 41.1 92.0 200.0 20.0 41.1 92.0 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.10 | .922 | .532 | 7.73 | .0933 | .0883 | .0843 | .0811 | .0980 | .0930 | .0890 | .0858 |
| .340 | 2.02 | .979 | .698 | 8.36 | .0756 | .0702 | .0660 | .0626 | .0807 | .0753 | .0711 | .0677 |
| .380 | 1.10 | .989 | .854 | 8.87 | .0649 | .0593 | .0549 | .0514 | .0701 | .0646 | .0602 | .0567 |
| .420 | .29 | .990 | .799 | 8.75 | .0613 | .0557 | .0514 | .0479 | .0666 | .0611 | .0567 | .0532 |
| .460 | -.64 | .997 | .735 | 8.67 | .0646 | .0591 | .0548 | .0514 | .0699 | .0644 | .0601 | .0567 |

LP/V(1/3) = 6.5 LP (FT) = 21.7 45.8 91.6 212.5 21.2 45.0 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.61 | .926 | .488 | 8.41 | .0848 | .0793 | .0750 | .0716 | .0899 | .0845 | .0802 | .0767 |
| .340 | 1.68 | .977 | .681 | 8.92 | .0678 | .0621 | .0576 | .0539 | .0733 | .0675 | .0630 | .0594 |
| .380 | .91 | .984 | .809 | 9.21 | .0593 | .0533 | .0486 | .0448 | .0649 | .0589 | .0542 | .0504 |
| .420 | -.19 | .992 | .762 | 0.35 | .0589 | .0527 | .0478 | .0439 | .0646 | .0584 | .0535 | .0496 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.21 | .921 | .423 | 9.07 | .0766 | .0707 | .0661 | .0624 | .0821 | .0763 | .0716 | .0679 |
| .340 | 1.51 | .963 | .378 | 9.52 | .0626 | .0564 | .0516 | .0477 | .0644 | .0582 | .0534 | .0495 |
| .380 | .78 | .984 | .248 | 9.80 | .0546 | .0481 | .0430 | .0390 | .0606 | .0541 | .0490 | .0450 |
| .420 | 0.00 | .987 | 0.000 | 9.85 | .0570 | .0501 | .0447 | .0404 | .0630 | .0561 | .0507 | .0464 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.95 | .912 | .338 | 9.79 | .0702 | .0638 | .0588 | .0548 | .0762 | .0699 | .0648 | .0608 |
| .340 | 1.27 | .957 | .277 | 10.28 | .0566 | .0489 | .0436 | .0394 | .0619 | .0552 | .0499 | .0457 |
| .380 | .66 | .980 | .166 | 10.43 | .0492 | .0423 | .0369 | .0325 | .0566 | .0487 | .0432 | .0389 |
| .420 | -.05 | .985 | 0.000 | 10.14 | .0545 | .0475 | .0420 | .0376 | .0607 | .0537 | .0482 | .0438 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.6 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.73 | .926 | .215 | 10.30 | .0630 | .0563 | .0509 | .0467 | .0693 | .0626 | .0572 | .0530 |
| .340 | 1.14 | .975 | .150 | 10.71 | .0496 | .0425 | .0370 | .0326 | .0561 | .0491 | .0436 | .0391 |
| .380 | .58 | .996 | .077 | 10.79 | .0442 | .0370 | .0313 | .0268 | .0508 | .0436 | .0380 | .0335 |
| .420 | -.19 | .971 | 0.000 | 10.22 | .0551 | .0482 | .0427 | .0383 | .0614 | .0544 | .0489 | .0446 |

RESISTANCE DATA SERIES 65-9 MODFL 5147

LP/DPX = 6.64 DEPARTURE ANGLE = 22.5 DEG FNO = 2.61

WFLIGHT = LIFT (LB) SEAWATER = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.76 .855 | .555 | 6.07 | .1214 | .1162 | .1121 | .1049 | .1263 | .1211 | .1170 | .1137 |
| .340 | 3.00 .96A | .661 | 6.64 | .1041 | .0986 | .0942 | .0907 | .1094 | .1039 | .0995 | .0960 |
| .380 | 1.85 .947 | .904 | 7.43 | .0914 | .0858 | .0811 | .0773 | .0974 | .0919 | .0870 | .0832 |
| .420 | .77 .947 | 1.000 | 8.39 | .0850 | .0783 | .0730 | .0688 | .0917 | .0850 | .0797 | .0755 |
| .460 | -.21 1.000 | .959 | 9.47 | .0839 | .0762 | .0702 | .0654 | .0914 | .0838 | .0778 | .0730 |

LP/V(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|------------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.57 .891 | .544 | 6.74 | .1104 | .1047 | .1002 | .0966 | .1159 | .1101 | .1056 | .1020 |
| .340 | 2.44 .974 | .705 | 7.48 | .0958 | .0897 | .0849 | .0810 | .1014 | .0957 | .0909 | .0870 |
| .380 | 1.57 .982 | .889 | 8.11 | .0867 | .0802 | .0751 | .0710 | .0921 | .0867 | .0816 | .0775 |
| .420 | .58 .983 | 1.000 | 8.68 | .0807 | .0738 | .0685 | .0641 | .0876 | .0808 | .0754 | .0711 |
| .460 | -.41 1.000 | 1.000 | 9.22 | .0774 | .0702 | .0645 | .0599 | .0848 | .0776 | .0719 | .0673 |

LP/V(1/3) = 8.0 LP (FT) = 21.9 43.1 92.8 200.0 21.9 43.1 92.8 200.0

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|-----------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.12 .90 | .521 | 7.48 | .1035 | .0973 | .0924 | .0884 | .1045 | .1033 | .0993 | .0944 |
| .340 | 2.07 .96A | .645 | 8.72 | .0882 | .0814 | .0761 | .0718 | .0948 | .0881 | .0827 | .0785 |
| .380 | 1.17 .984 | .71A | 8.84 | .0789 | .0719 | .0663 | .0618 | .0860 | .0789 | .0733 | .0688 |
| .420 | .39 .949 | .708 | 9.03 | .0752 | .0672 | .0617 | .0572 | .0835 | .0762 | .0705 | .0659 |
| .460 | -.29 .998 | .613 | 9.93 | .0793 | .0719 | .0663 | .0617 | .0864 | .0792 | .0734 | .0689 |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.8 94.6 212.5 21.7 45.8 94.6 212.5

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|-----------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.55 .904 | .499 | 8.14 | .0962 | .0895 | .0842 | .0800 | .1027 | .0960 | .0907 | .0865 |
| .340 | 1.72 .96A | .629 | 8.95 | .0807 | .0734 | .0676 | .0630 | .0878 | .0805 | .0748 | .0702 |
| .380 | .96 .993 | .462 | 9.38 | .0726 | .0652 | .0595 | .0548 | .0804 | .0725 | .0664 | .0615 |
| .420 | .27 .995 | .287 | 9.40 | .0715 | .0635 | .0572 | .0522 | .0791 | .0711 | .0644 | .0593 |
| .460 | -.44 .977 | 0.000 | 10.000 | .0709 | .0605 | .0540 | .0488 | .0861 | .0774 | .0713 | .0661 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 114.4 225.0

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|-----------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.24 .907 | .446 | 8.93 | .0885 | .0813 | .0755 | .0708 | .0957 | .0884 | .0826 | .0785 |
| .340 | 1.50 .964 | .415 | 9.67 | .0753 | .0675 | .0612 | .0563 | .0830 | .0752 | .0689 | .0640 |
| .380 | .85 .991 | .307 | 10.02 | .0684 | .0601 | .0536 | .0483 | .0764 | .0681 | .0615 | .0563 |
| .420 | .18 .992 | .060 | 10.07 | .0696 | .0590 | .0530 | .0475 | .0766 | .0679 | .0613 | .0556 |

LP/V(1/3) = 9.5 LP (FT) = 51.2 73.3 110.2 237.4 51.2 73.3 110.2 237.4

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|-----------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.97 .903 | .370 | 9.76 | .0814 | .0734 | .0671 | .0620 | .0892 | .0812 | .0749 | .0698 |
| .340 | 1.31 .957 | .314 | 10.37 | .0693 | .0607 | .0540 | .0486 | .0776 | .0690 | .0623 | .0569 |
| .380 | .74 .944 | .210 | 10.62 | .0639 | .0550 | .0480 | .0424 | .0723 | .0634 | .0565 | .0509 |
| .420 | 0.00 .946 | 0.000 | 10.39 | .0676 | .0585 | .0514 | .0457 | .0759 | .0668 | .0597 | .0540 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 115.0 249.9 25.0 53.8 116.0 249.9

| LCG LP (TRIM) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------------|-----------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.75 .901 | .241 | 10.35 | .0757 | .0667 | .0599 | .0545 | .0836 | .0750 | .0682 | .0628 |
| .340 | 1.19 .970 | .173 | 10.80 | .0647 | .0557 | .0487 | .0430 | .0734 | .0644 | .0577 | .0516 |
| .380 | .66 .995 | .101 | 10.94 | .0600 | .0508 | .0436 | .0378 | .0688 | .0596 | .0527 | .0465 |
| .420 | -.03 .942 | 0.000 | 10.58 | .0648 | .0557 | .0486 | .0429 | .0733 | .0642 | .0570 | .0513 |

RESISTANCE DATA SERIES 65-B MODFL 5167

LP/DPX = 6.64 DEANoise ANGLE = 22.5 DEG FNO = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.6 37.7 81.2 175.0 17.6 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .787 | .509 | 6.44 | .1434 | .1250 | .1298 | .1250 | .1507 | .1431 | .1371 | .1323 |
| .340 | 3.00 | .940 | .627 | 6.45 | .1280 | .1200 | .1136 | .1085 | .1361 | .1288 | .1217 | .1166 |
| .380 | 1.94 | 1.078 | .826 | 7.31 | .1219 | .1131 | .1061 | .1004 | .1311 | .1222 | .1152 | .1096 |
| .420 | .72 | .990 | 1.000 | 9.25 | .1223 | .1115 | .1029 | .0959 | .1339 | .1230 | .1144 | .1075 |

LP/V(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|--------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.71 | .814 | .491 | 6.44 | .1736 | .1254 | .1109 | .1137 | .1417 | .1334 | .1269 | .1217 |
| .340 | 2.43 | .958 | .662 | 7.18 | .1719 | .1131 | .1062 | .1006 | .1379 | .1221 | .1151 | .1096 |
| .380 | 1.57 | .979 | .852 | 7.90 | .1186 | .1092 | .1017 | .0957 | .1285 | .1191 | .1116 | .1056 |
| .420 | .94 | .996 | .981 | 8.80 | .1176 | .1073 | .0991 | .0925 | .1286 | .1183 | .1101 | .1035 |
| .460 | .36 | 1.550 | 1.000 | 10.07 | .1174 | .1058 | .0965 | .0890 | .1300 | .1184 | .1091 | .1016 |
| .500 | -.39 | 1.000 | 1.000 | 12.47 | .1178 | | .10362 | .0831 | .1334 | .1191 | .1078 | .0987 |

LP/V(1/3) = 8.0 LP (FT) = 21.0 47.1 92.8 200.0 21.0 47.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .949 | .496 | 7.25 | .1291 | .1190 | .1119 | .1061 | .1372 | .1281 | .1200 | .1152 |
| .340 | 2.05 | .982 | .666 | 8.19 | .1211 | .1113 | .1036 | .0973 | .1312 | .1214 | .1124 | .1074 |
| .380 | 1.26 | .990 | .720 | 8.94 | .1165 | .1068 | .0976 | .0908 | .1275 | .1179 | .1086 | .1019 |
| .420 | .68 | .991 | .643 | 9.68 | .1119 | .1022 | .0910 | .0835 | .1240 | .1123 | .1030 | .0956 |
| .460 | -.37 | .998 | .176 | 11.18 | .1025 | .0882 | .0767 | .0675 | .1156 | .1021 | .0907 | .0816 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.52 | .873 | .507 | 7.92 | .1234 | .1136 | .1059 | .0997 | .1333 | .1235 | .1158 | .1096 |
| .340 | 1.72 | .956 | .596 | 8.00 | .1135 | .1026 | .0941 | .0872 | .1247 | .1139 | .1053 | .0984 |
| .380 | 1.14 | .990 | .547 | 8.74 | .1083 | .0966 | .0873 | .0798 | .1205 | .1088 | .0995 | .0922 |
| .420 | .52 | 1.000 | .739 | 10.50 | .1052 | .0922 | .0819 | .0736 | .1183 | .1053 | .0959 | .0867 |
| .462 | -.44 | .962 | 0.000 | 11.56 | .1045 | .0870 | .0733 | .0624 | .1191 | .1015 | .0877 | .0769 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 51.5 104.4 225.0 22.5 51.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.21 | .887 | .473 | 8.77 | .1169 | .1062 | .0977 | .0909 | .1279 | .1171 | .1087 | .1018 |
| .340 | 1.50 | .959 | .484 | 9.33 | .1071 | .0953 | .0859 | .0784 | .1194 | .1076 | .0982 | .0906 |
| .380 | .99 | 1.000 | .414 | 10.48 | .1025 | .0898 | .0797 | .0716 | .1156 | .1029 | .0928 | .0847 |
| .420 | .36 | 1.000 | .198 | 11.06 | .1019 | .0871 | .0761 | .0674 | .1148 | .1009 | .0899 | .0812 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.7 110.2 237.4 23.7 51.7 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.95 | .905 | .407 | 9.69 | .1121 | .1004 | .0910 | .0835 | .1242 | .1125 | .1031 | .0956 |
| .340 | 1.36 | .980 | .385 | 10.55 | .1040 | .0913 | .0812 | .0731 | .1172 | .1044 | .0944 | .0862 |
| .380 | .90 | 1.000 | .315 | 11.02 | .0997 | .0864 | .0758 | .0672 | .1135 | .1001 | .0895 | .0810 |
| .420 | .24 | 1.000 | .195 | 11.19 | .0986 | .0845 | .0734 | .0644 | .1126 | .0985 | .0874 | .0784 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.73 | .929 | .288 | 10.48 | .1081 | .0953 | .0851 | .0770 | .1212 | .1084 | .0982 | .0901 |
| .340 | 1.26 | .992 | .247 | 11.11 | .1011 | .0876 | .0769 | .0682 | .1150 | .1015 | .0907 | .0821 |
| .380 | .83 | 1.000 | .188 | 11.43 | .0967 | .0827 | .0716 | .0627 | .1110 | .0970 | .0859 | .0770 |
| .420 | .11 | .996 | .031 | 11.22 | .0949 | .0807 | .0695 | .0604 | .1090 | .0947 | .0835 | .0745 |

RESISTANCE DATA SERIES 55-B MODEL 5147

LP/RPX ± b.64 DEADRISE ANGLE ± 22.5 DEG FNO = 3.00

WEIGHT ± LIFT (LP, SEAWATER) ± 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 75.4 150.8 17.5 37.7 75.4 150.8

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.50 | .641 | .419 | 5.00 | .1727 | .1633 | .1559 | .1499 | .1817 | .1723 | .1649 | .1589 | |
| .340 | 3.52 | .941 | .530 | 6.12 | .1982 | .1873 | .1785 | .1719 | .1802 | .1707 | .1639 | .1579 | |
| .380 | 1.92 | 1.090 | .817 | 7.99 | .1925 | .1842 | .1766 | .1700 | .1670 | .1536 | .1429 | .1343 | |
| .420 | 1.12 | .934 | 1.000 | 9.62 | .1597 | .1549 | .1423 | .1327 | .1680 | .1522 | 1.000 | .1295 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 80.8 161.6 18.7 40.4 80.8 161.6

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.77 | .710 | .410 | 5.04 | .1624 | .1517 | .1432 | .1364 | .1729 | .1522 | .1427 | .1370 | |
| .340 | 2.67 | .944 | .575 | 7.17 | .1491 | .1368 | .1270 | .1192 | .1620 | .1497 | .1399 | .1321 | |
| .380 | 1.61 | .943 | .812 | 8.02 | .1498 | .1365 | .1259 | .1174 | .1642 | .1519 | .1404 | .1319 | |
| .420 | 1.08 | .935 | 1.000 | 9.42 | .1555 | .1417 | .1308 | .1220 | .1705 | .1569 | .1450 | .1371 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 86.2 172.4 20.0 43.1 86.2 172.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.46 | .775 | .417 | 6.64 | .1555 | .1436 | .1342 | .1267 | .1674 | .1556 | .1462 | .1387 | |
| .340 | 2.16 | .925 | .556 | 7.84 | .1496 | .1364 | .1259 | .1175 | .1637 | .1505 | .1401 | .1316 | |
| .380 | 1.38 | .979 | .719 | 8.82 | .1494 | .1352 | .1236 | .1142 | .1657 | .1511 | .1394 | .1301 | |
| .420 | .82 | 1.000 | .570 | 9.78 | .1524 | .1360 | .1220 | .1124 | .1700 | .1535 | .1405 | .1300 | |
| .460 | -.23 | 1.000 | .217 | 11.12 | .1573 | .1376 | .1221 | .1096 | .1773 | .1576 | .1421 | .1296 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.0 90.0 180.0 21.2 45.0 90.0 180.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.84 | .812 | .432 | 7.56 | .1536 | .1404 | .1300 | .1216 | .1672 | .1540 | .1436 | .1352 | |
| .340 | 1.83 | .938 | .572 | 8.79 | .1486 | .1344 | .1221 | .1127 | .1644 | .1497 | .1379 | .1285 | |
| .380 | 1.11 | .993 | .526 | 9.76 | .1470 | .1306 | .1177 | .1072 | .1646 | .1482 | .1352 | .1248 | |
| .420 | .47 | 1.000 | .297 | 10.74 | .1477 | .1291 | .1143 | .1025 | .1670 | .1484 | .1337 | .1216 | |
| .460 | -.31 | .958 | 0.000 | 12.10 | .1495 | .1252 | .1062 | .0910 | .1713 | .1470 | .1279 | .1127 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 97.0 194.0 22.5 48.5 97.0 194.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.43 | .836 | .437 | 8.43 | .1522 | .1377 | .1262 | .1170 | .1674 | .1529 | .1414 | .1322 | |
| .340 | 1.50 | .965 | .492 | 9.69 | .1446 | .1280 | .1149 | .1043 | .1623 | .1458 | .1327 | .1221 | |
| .380 | .87 | 1.000 | .402 | 10.88 | .1427 | .1248 | .1099 | .0982 | .1623 | .1440 | .1294 | .1178 | |
| .420 | .31 | 1.000 | .187 | 11.77 | .1449 | .1244 | .1082 | .0951 | .1661 | .1456 | .1294 | .1163 | |
| .460 | -.28 | .950 | 0.000 | 12.67 | .1511 | .1265 | .1073 | .0919 | .1738 | .1493 | .1301 | .1147 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.2 102.4 204.8 23.7 51.2 102.4 204.8

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.11 | .867 | .437 | 9.40 | .1507 | .1347 | .1221 | .1119 | .1676 | .1516 | .1390 | .1288 | |
| .340 | 1.31 | .983 | .416 | 10.82 | .1422 | .1242 | .1099 | .0984 | .1617 | .1437 | .1293 | .1178 | |
| .380 | .71 | 1.000 | .309 | 11.60 | .1402 | .1207 | .1052 | .0927 | .1610 | .1415 | .1260 | .1136 | |
| .420 | .22 | 1.000 | .119 | 11.05 | .1430 | .1221 | .1056 | .0924 | .1645 | .1436 | .1271 | .1139 | |
| .460 | -.26 | .939 | 0.000 | 11.97 | .1501 | .1274 | .1096 | .0957 | .1716 | .1490 | .1311 | .1168 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 57.0 114.0 228.0 25.0 57.0 114.0 228.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.07 | .889 | .362 | 10.21 | .1483 | .1310 | .1174 | .1064 | .1667 | .1494 | .1357 | .1247 | |
| .340 | 1.10 | 1.000 | .331 | 11.38 | .1408 | .1218 | .1068 | .0946 | .1612 | .1423 | .1272 | .1151 | |
| .380 | .53 | 1.000 | .210 | 11.71 | .1399 | .1201 | .1044 | .0917 | .1610 | .1412 | .1255 | .1128 | |
| .420 | .11 | .997 | .055 | 11.56 | .1431 | .1220 | .1059 | .0940 | .1639 | .1437 | .1277 | .1148 | |
| .460 | -.17 | .952 | 0.000 | 11.22 | .1474 | .1260 | .1108 | .0978 | .1676 | .1471 | .1309 | .1180 | |

RESISTANCE DATA SFRIFS 65-9 MODEL 5167

LP/RPX = 6.64 DEARRISE ANGLE = 22.5 DEG FN9 = 3.50

WEIGHT = LIFT (LR, SPANWTR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 77.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.44 | .585 | .364 | 4.22 | .1811 | .1703 | .1619 | .1551 | .1914 | .1907 | .1722 | .1655 |
| .340 | 4.17 | .766 | .435 | 5.46 | .1829 | .1698 | .1593 | .1509 | .1947 | .1831 | .1727 | .1643 |
| .380 | 2.55 | .983 | .645 | 7.10 | .1887 | .1726 | .1598 | .1495 | .2061 | .1900 | .1772 | .1669 |
| .420 | .90 | .995 | 1.000 | 10.49 | .2087 | .1861 | .1641 | .1536 | .2344 | .2118 | .1938 | .1793 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.69 | .607 | .338 | 4.87 | .1808 | .1686 | .1590 | .1513 | .1928 | .1906 | .1700 | .1632 |
| .340 | 3.30 | .835 | .447 | 6.45 | .1839 | .1688 | .1568 | .1471 | .1997 | .1845 | .1725 | .1629 |
| .380 | 1.93 | .976 | .725 | 7.84 | .1909 | .1735 | .1597 | .1486 | .2101 | .1927 | .1749 | .1673 |
| .420 | 1.03 | .943 | 1.000 | 8.52 | .2012 | .1830 | .1685 | .1567 | .2221 | .2038 | .1893 | .1776 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.93 | .659 | .331 | 5.92 | .1794 | .1659 | .1552 | .1466 | .1929 | .1794 | .1647 | .1602 |
| .340 | 2.65 | .867 | .457 | 7.28 | .1900 | .1733 | .1600 | .1493 | .2079 | .1911 | .1778 | .1671 |
| .380 | 1.50 | .972 | .705 | 8.68 | .1916 | .1725 | .1574 | .1452 | .2128 | .1939 | .1786 | .1664 |
| .420 | .95 | .968 | .891 | 9.17 | .2066 | .1870 | .1513 | .1386 | .2091 | .1894 | .1737 | .1610 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.9 98.6 212.5 21.2 45.9 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.33 | .698 | .326 | 6.40 | .1867 | .1714 | .1592 | .1495 | .2024 | .1879 | .1749 | .1651 |
| .340 | 2.27 | .870 | .520 | 7.91 | .1939 | .1761 | .1620 | .1506 | .2133 | .1955 | .1814 | .1700 |
| .380 | 1.27 | .992 | .588 | 9.82 | .1975 | .1769 | .1588 | .1450 | .2215 | .2000 | .1829 | .1690 |
| .420 | .48 | 1.000 | .345 | 12.20 | .2044 | .1774 | .1556 | .1380 | .2347 | .2073 | .1854 | .1678 |
| .460 | .04 | 1.000 | .037 | 14.01 | .2113 | .1782 | .1519 | .1307 | .2456 | .2124 | .1862 | .1650 |
| .500 | .09 | 1.000 | .074 | 13.81 | .2106 | .1782 | .1524 | .1317 | .2445 | .2120 | .1862 | .1655 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.85 | .735 | .344 | 7.32 | .1890 | .1718 | .1542 | .1473 | .2069 | .1898 | .1742 | .1652 |
| .340 | 1.85 | .916 | .495 | 9.12 | .1911 | .1708 | .1547 | .1418 | .2134 | .1937 | .1771 | .1641 |
| .380 | .95 | 1.000 | .442 | 10.93 | .1958 | .1717 | .1526 | .1371 | .2226 | .1985 | .1797 | .1639 |
| .420 | .27 | 1.000 | .177 | 12.40 | .2047 | .1754 | .1532 | .1350 | .2347 | .2062 | .1836 | .1654 |
| .460 | -0.66 | .978 | 0.000 | 13.15 | .2099 | .1782 | .1530 | .1328 | .2421 | .2104 | .1852 | .1659 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.41 | .788 | .364 | 8.35 | .1923 | .1729 | .1578 | .1456 | .2124 | .1934 | .1782 | .1669 |
| .340 | 1.50 | .956 | .437 | 10.41 | .1917 | .1688 | .1505 | .1358 | .2177 | .1943 | .1780 | .1613 |
| .380 | .73 | 1.000 | .331 | 12.12 | .1959 | .1691 | .1478 | .1306 | .2256 | .1988 | .1774 | .1602 |
| .420 | .19 | 1.000 | .110 | 13.23 | .2034 | .1729 | .1488 | .1293 | .2354 | .2053 | .1812 | .1617 |
| .460 | -0.04 | .976 | 0.000 | 13.65 | .2076 | .1751 | .1493 | .1287 | .2419 | .2085 | .1828 | .1621 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.06 | .836 | .351 | 9.68 | .1934 | .1719 | .1548 | .1410 | .2169 | .1953 | .1782 | .1644 |
| .340 | 1.24 | .983 | .365 | 11.68 | .1925 | .1671 | .1469 | .1306 | .2208 | .1955 | .1783 | .1590 |
| .380 | .57 | 1.000 | .241 | 12.88 | .1983 | .1694 | .1471 | .1288 | .2297 | .2013 | .1786 | .1603 |
| .420 | .12 | .999 | .064 | 13.45 | .2074 | .1765 | .1519 | .1322 | .2404 | .2094 | .1849 | .1651 |
| .460 | -0.03 | .977 | 0.000 | 13.68 | .2114 | .1795 | .1543 | .1339 | .2447 | .2128 | .1875 | .1672 |

RESISTANCE DATA SERIES 65-B MODEL 5167

LP/SPX = 6.64

DEADRISE ANGLE = 22.5 DEG

FNW = 4.80

WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.01 | .553 | .322 | 4.07 | .1957 | .1823 | .1718 | .1633 | .2087 | .1953 | .1848 | .1764 |
| .340 | 4.35 | .660 | .381 | 4.85 | .2065 | .1911 | .1790 | .1693 | .2220 | .2066 | .1945 | .1848 |
| .380 | 3.41 | .851 | .479 | 5.85 | .2147 | .1971 | .1832 | .1720 | .2334 | .2159 | .2019 | .1907 |

LP/V(1/3) = 7.5 L P (FT) = 18.7 40.4 97.0 187.5 16.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.35 | .591 | .308 | 4.42 | .1845 | .1743 | .1630 | .1540 | .2026 | .1864 | .1772 | .1682 |
| .340 | 3.60 | .740 | .388 | 5.66 | .2024 | .1856 | .1720 | .1610 | .2208 | .2035 | .1899 | .1789 |
| .380 | 2.60 | .908 | .531 | 7.40 | .2237 | .2022 | .1850 | .1712 | .2474 | .2258 | .2087 | .1949 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.33 | .513 | .289 | 5.16 | .1945 | .1783 | .1653 | .1550 | .2111 | .1947 | .1818 | .1715 |
| .340 | 3.11 | .758 | .366 | 6.58 | .2156 | .1957 | .1799 | .1672 | .2367 | .2168 | .2010 | .1883 |
| .380 | 2.12 | .916 | .517 | 8.20 | .2384 | .2152 | .1965 | .1813 | .2650 | .2415 | .2227 | .2075 |

LP/V(1/3) = 11.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 99.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.92 | .651 | .295 | 5.13 | .2024 | .1834 | .1684 | .1563 | .2220 | .2030 | .1880 | .1759 |
| .340 | 2.50 | .851 | .432 | 7.34 | .2214 | .1999 | .1828 | .1690 | .2449 | .2234 | .2063 | .1925 |
| .380 | 1.50 | .966 | .578 | 9.75 | .2426 | .2166 | .1958 | .1791 | .2722 | .2462 | .2254 | .2087 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.92 | .677 | .301 | 6.84 | .2076 | .1868 | .1703 | .1570 | .2294 | .2086 | .1921 | .1789 |
| .340 | 2.09 | .855 | .461 | 11.52 | .2322 | .2079 | .1885 | .1728 | .2595 | .2351 | .2157 | .2001 |
| .380 | 1.26 | .992 | .496 | 10.69 | .2549 | .2251 | .2013 | .1821 | .2891 | .2592 | .2355 | .2163 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.59 | .712 | .314 | 7.61 | .2211 | .1983 | .1801 | .1655 | .2456 | .2228 | .2047 | .1901 |
| .340 | 1.79 | .896 | .426 | 9.69 | .2425 | .2151 | .1933 | .1757 | .2734 | .2461 | .2247 | .2067 |
| .380 | 1.04 | 1.000 | .405 | 11.81 | .2613 | .2284 | .2022 | .1810 | .2991 | .2662 | .2399 | .2187 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.23 | .772 | .318 | 8.71 | .2319 | .2065 | .1864 | .1701 | .2597 | .2344 | .2143 | .1980 |
| .340 | 1.50 | .938 | .379 | 10.91 | .2504 | .2199 | .1956 | .1759 | .2853 | .2548 | .2305 | .2108 |
| .380 | .90 | 1.000 | .373 | 12.71 | .2657 | .2299 | .2018 | .1790 | .3060 | .2706 | .2424 | .2196 |

RESISTANCE DATA SERIES 65-9 MODEL 5236

LP/HPX = 4.69

REFRACTION ANGLE = 33.4 DEG

FNU = 1.00

HEIGHT = LIFT (LP, SPAN/HPX) = 100' 100.0 100.00 100.000 100 100.0 100.00 100.000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 59.0 125.0 12.5 26.9 59.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.25 | .964 | .625 | 5.72 | .1069 | .1045 | .1033 | .1024 | .1071 | .1156 | .1044 | .1035 |
| .340 | 4.50 | .977 | .709 | 5.46 | .0819 | .0804 | .0792 | .0783 | .0931 | .0916 | .0894 | .0795 |
| .380 | 2.33 | .989 | .975 | 6.04 | .0671 | .0656 | .0644 | .0635 | .0583 | .0668 | .0656 | .0647 |

LP/V(1/3) = 5.6 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.00 | .961 | .519 | 6.44 | .1079 | .1063 | .1051 | .1041 | .1091 | .1175 | .1063 | .1053 |
| .340 | 3.79 | .977 | .573 | 6.05 | .0847 | .0831 | .0819 | .0809 | .0959 | .0943 | .0931 | .0821 |
| .380 | 1.76 | .984 | .546 | 6.09 | .0675 | .0659 | .0647 | .0637 | .0687 | .0672 | .0659 | .0650 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 31.2 69.6 150.0 15.0 31.2 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.02 | .966 | .495 | 6.62 | .0869 | .0851 | .0837 | .0827 | .0981 | .0964 | .0950 | .0849 |
| .340 | 3.03 | .977 | .368 | 6.91 | .0692 | .0674 | .0660 | .0649 | .0796 | .0689 | .0674 | .0663 |
| .380 | 1.00 | .982 | .211 | 6.77 | .0549 | .0530 | .0516 | .0505 | .0562 | .0544 | .0539 | .0519 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.4 75.4 162.5 16.2 35.4 75.4 162.5

| CG & LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|---------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.116 | .964 | .291 | 7.47 | .0659 | .0648 | .0633 | .0621 | .0682 | .0665 | .0648 | .0636 |
| .340 | 2.20 | .977 | .173 | 7.79 | .0535 | .0516 | .0500 | .0488 | .0550 | .0530 | .0515 | .0503 |
| .380 | .61 | .979 | 0.000 | 7.24 | .0459 | .0430 | .0414 | .0402 | .0464 | .0444 | .0428 | .0416 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 91.2 175.0 17.5 37.7 91.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.14 | .964 | .173 | 7.95 | .0559 | .0538 | .0522 | .0500 | .0575 | .0554 | .0538 | .0525 |
| .340 | 1.74 | .975 | .050 | 7.81 | .0456 | .0435 | .0420 | .0407 | .0471 | .0450 | .0435 | .0422 |
| .380 | .39 | .976 | 0.000 | 7.64 | .0402 | .0380 | .0364 | .0351 | .0417 | .0396 | .0379 | .0366 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 97.0 197.5 18.7 40.4 97.0 197.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.72 | .967 | .064 | 7.92 | .0507 | .0486 | .0470 | .0457 | .0523 | .0502 | .0486 | .0473 |
| .340 | 1.50 | .972 | .004 | 7.59 | .0383 | .0415 | .0400 | .0387 | .0451 | .0433 | .0415 | .0402 |
| .380 | .25 | .974 | 0.007 | 7.91 | .0373 | .0351 | .0334 | .0321 | .0389 | .0367 | .0350 | .0337 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 47.1 92.8 200.0 20.0 47.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.41 | .968 | 0.000 | 7.04 | .0304 | .0284 | .0268 | .0255 | .0320 | .0299 | .0283 | .0271 |
| .340 | 1.32 | .968 | .001 | 7.77 | .0451 | .0430 | .0414 | .0402 | .0466 | .0446 | .0430 | .0417 |
| .380 | .16 | .973 | .001 | 8.20 | .0340 | .0318 | .0301 | .0288 | .0356 | .0334 | .0319 | .0304 |

RESISTANCE DATA SERIES 65-9 MODEL 4236

LP/APPX = 4.6'3 DEADWISE ANGLE = 30.4 DEG FAD = 1.25

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000100

LP/V(1/3) = 5.0 LP (FT) = 17.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 6.48 | .965 | .663 | 5.49 | .1477 | .1456 | .1439 | .1426 | .1494 | .1473 | .1456 | .1443 |
| .380 | 3.94 | .978 | .906 | 5.90 | .1188 | .1165 | .1148 | .1134 | .1206 | .1184 | .1167 | .1153 |
| .420 | 1.80 | .993 | 1.000 | 5.83 | .1011 | .0989 | .0972 | .0959 | .1029 | .1007 | .0990 | .0977 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 20.6 63.8 137.5 13.7 20.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.50 | .914 | .541 | 5.92 | .1643 | .1620 | .1602 | .1588 | .1661 | .1638 | .1620 | .1606 |
| .340 | 4.06 | .970 | 0.800 | 5.03 | .1276 | .1253 | .1235 | .1221 | .1295 | .1272 | .1254 | .1240 |
| .380 | 3.00 | .978 | .741 | 6.36 | .1029 | .1005 | .0986 | .0971 | .1049 | .1025 | .1006 | .0991 |
| .420 | 1.08 | .984 | .906 | 6.49 | .0877 | .0854 | .0835 | .0820 | .0898 | .0874 | .0855 | .0840 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.00 | .933 | .450 | 6.68 | .1419 | .1393 | .1373 | .1357 | .1440 | .1414 | .1394 | .1378 |
| .340 | 4.03 | .975 | .473 | 6.62 | .1106 | .1080 | .1061 | .1045 | .1126 | .1101 | .1081 | .1066 |
| .380 | 2.31 | .978 | .732 | 6.87 | .0917 | .0884 | .0863 | .0846 | .0932 | .0905 | .0884 | .0867 |
| .420 | .54 | .982 | .240 | 1.13 | .0758 | .0739 | .0717 | .0700 | .0790 | .0761 | .0739 | .0722 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 15.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.41 | .940 | .330 | 7.00 | .1152 | .1125 | .1104 | .1087 | .1174 | .1147 | .1126 | .1109 |
| .340 | 3.78 | .973 | .297 | 7.38 | .0929 | .0900 | .0878 | .0860 | .0952 | .0923 | .0901 | .0883 |
| .380 | 1.72 | .973 | 0.000 | 7.46 | .0771 | .0746 | .0716 | .0697 | .0794 | .0763 | .0739 | .0720 |
| .420 | 0.00 | .983 | 0.000 | 7.60 | .0637 | .0605 | .0574 | .0561 | .0661 | .0629 | .0604 | .0585 |

LP/V(1/3) = 7.4 LP (FT) = 17.5 17.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.18 | .938 | .205 | 7.46 | .0952 | .0923 | .0900 | .0882 | .0975 | .0946 | .0923 | .0905 |
| .340 | 2.68 | .972 | .115 | 8.00 | .0787 | .0751 | .0727 | .0707 | .0808 | .0776 | .0752 | .0732 |
| .380 | 1.23 | .973 | 0.000 | 7.79 | .0650 | .0617 | .0592 | .0572 | .0675 | .0642 | .0616 | .0596 |
| .420 | -0.29 | .987 | 0.000 | 7.89 | .0533 | .0500 | .0474 | .0453 | .0558 | .0524 | .0498 | .0478 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 97.0 187.5 18.7 40.4 97.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.58 | .942 | .095 | 8.05 | .0832 | .0800 | .0778 | .0756 | .0857 | .0825 | .0801 | .0781 |
| .340 | 2.21 | .971 | 0.000 | 8.13 | .0688 | .0657 | .0632 | .0612 | .0714 | .0682 | .0657 | .0637 |
| .380 | .86 | .970 | 0.000 | 7.93 | .0577 | .0540 | .0514 | .0494 | .0597 | .0564 | .0539 | .0519 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 47.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.14 | .952 | 0.000 | 8.27 | .0787 | .0755 | .0729 | .0709 | .0817 | .0780 | .0755 | .0735 |
| .340 | 1.87 | .969 | 0.000 | 8.01 | .0661 | .0629 | .0605 | .0585 | .0686 | .0654 | .0630 | .0610 |
| .380 | .63 | .969 | 0.000 | 9.12 | .0543 | .0511 | .0486 | .0467 | .0568 | .0536 | .0512 | .0492 |

LP/PPX = 4.69 DEADRISE ANGLE = 36.4 DEG FNU = 1.50

 HEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 175.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 0.95 | .954 | .650 | 5.40 | .1677 | .1644 | .1625 | .1607 | .1701 | .1672 | .1649 | .1631 |
| .340 | 4.50 | .977 | .808 | 5.71 | .1374 | .1344 | .1320 | .1302 | .1400 | .1370 | .1346 | .1327 |
| .380 | 2.29 | .988 | 1.000 | 5.73 | .1199 | .1160 | .1137 | .1119 | .1215 | .1186 | .1163 | .1145 |
| .420 | 0.00 | .997 | 1.000 | 6.19 | .1081 | .1050 | .1026 | .1006 | .1109 | .1077 | .1053 | .1034 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--------|
| .300 | 7.80 | .858 | .537 | 5.79 | .1727 | .1695 | .1671 | .1651 | .1757 | .1721 | .1697 | .1677 |
| .340 | 5.27 | .966 | .588 | 6.05 | .1364 | .1332 | .1307 | .1287 | .1392 | .1359 | .1334 | et.314 |
| .380 | 3.38 | .975 | .811 | 6.47 | .1145 | .1112 | .1086 | .1065 | .1174 | .1141 | .1115 | .1094 |
| .420 | 1.89 | .982 | 1.000 | 6.70 | .1023 | .0989 | .0963 | .0942 | .1053 | .1019 | .0993 | .0972 |
| .460 | -1.15 | .995 | 1.000 | 6.60 | .0949 | .0916 | .0890 | .0869 | .0979 | .0945 | .0920 | .0899 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.21 | .908 | .444 | 6.86 | .1449 | .1411 | .1382 | .1359 | .1479 | .1442 | .1413 | .1390 |
| .340 | 4.24 | .970 | .576 | 6.90 | .1171 | .1135 | .1107 | .1084 | .1202 | .1166 | .1138 | .1115 |
| .380 | 2.72 | .976 | .517 | 7.19 | .1009 | .0970 | .0940 | .0917 | .1040 | .1002 | .0973 | .0949 |
| .420 | 1.24 | .979 | .347 | 7.48 | .0907 | .0859 | .0828 | .0803 | .0933 | .0893 | .0861 | .0836 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.11 | .915 | .387 | 7.49 | .1263 | .1223 | .1192 | .1167 | .1297 | .1257 | .1225 | .1201 |
| .340 | 3.56 | .967 | .375 | 7.41 | .1042 | .1010 | .0979 | .0955 | .1083 | .1043 | .1012 | .0988 |
| .380 | 2.27 | .976 | .065 | 7.60 | .0909 | .0865 | .0832 | .0806 | .0942 | .0909 | .0866 | .0840 |
| .420 | 0.84 | .978 | 0.000 | 7.83 | .0793 | .0746 | .0709 | .0681 | .0828 | .0781 | .0745 | .0716 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 91.2 175.0 17.5 37.7 91.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.50 | .915 | .237 | 7.56 | .1149 | .1111 | .1069 | .1044 | .1176 | .1135 | .1103 | .1078 |
| .340 | 3.00 | .967 | .127 | 7.81 | .0942 | .0900 | .0867 | .0840 | .0979 | .0935 | .0902 | .0875 |
| .380 | 1.81 | .975 | 0.000 | 7.90 | .0815 | .0769 | .0733 | .0705 | .0851 | .0805 | .0769 | .0741 |
| .420 | 0.51 | .976 | 0.000 | 8.14 | .0708 | .0657 | .0620 | .0599 | .0745 | .0695 | .0656 | .0626 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.82 | .923 | .082 | 7.86 | .1009 | .0965 | .0932 | .0906 | .1044 | .1001 | .0968 | .0941 |
| .340 | 2.59 | .969 | 0.000 | 8.18 | .0849 | .0806 | .0768 | .0740 | .0885 | .0840 | .0804 | .0776 |
| .380 | 1.50 | .974 | 0.000 | 8.20 | .0744 | .0697 | .0661 | .0632 | .0781 | .0734 | .0698 | .0669 |
| .420 | 0.24 | .976 | 0.000 | 8.45 | .0648 | .0599 | .0561 | .0531 | .0686 | .0637 | .0599 | .0569 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|--------|-------|-------|
| .300 | 3.44 | .932 | 0.000 | 8.25 | .0931 | .0886 | .0851 | .0823 | .0969 | .0923 | .0888 | .0860 |
| .340 | 2.26 | .970 | 0.000 | 8.44 | .0797 | .0747 | .0711 | .0682 | .0830 | .0784 | .0749 | .0720 |
| .380 | 1.20 | .971 | 0.000 | 8.44 | .0706 | .0650 | .0624 | .0596 | .0743 | .0698 | .0662 | .0634 |
| .420 | 0.00 | .979 | 0.000 | 8.89 | .0617 | .0565 | .0527 | 0.000 | .0653 | 0.0635 | .0567 | .0537 |

RESISTANCE DATA SERIES 55-R MODFL 5736

LP/90X = 4.60 DEADWISE ANGLE = 30.4 DEG FNV = 1.75

WFLIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 20.9 54.0 125.0 12.5 20.9 54.0 125.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.01 | .944 | .636 | 5.39 | .1730 | .1692 | .1662 | .1534 | .1763 | .1725 | .1695 | .1671 |
| .380 | 4.51 | .974 | .787 | 5.71 | .1454 | .1419 | .1388 | .1363 | .1493 | .1454 | .1423 | .1398 |
| .420 | 2.31 | .943 | 1.000 | 5.45 | .1299 | .1240 | .1210 | .1185 | .1316 | .1276 | .1245 | .1221 |
| .460 | 1.79 | 1.000 | .539 | 6.18 | .1719 | .1174 | .1140 | .1112 | .1256 | .1212 | .1178 | .1150 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.84 | .816 | .503 | 5.56 | .1786 | .1746 | .1714 | .1689 | .1920 | .1880 | .1848 | .1823 |
| .340 | 5.46 | .959 | .567 | 6.01 | .1454 | .1416 | .1383 | .1357 | .1496 | .1453 | .1420 | .1394 |
| .380 | 3.56 | .977 | .787 | 6.43 | .1244 | .1204 | .1171 | .1144 | .1285 | .1243 | .1209 | .1182 |
| .420 | 1.89 | .982 | .615 | 6.54 | .1137 | .1092 | .1056 | .1028 | .1177 | .1132 | .1096 | .1068 |
| .460 | 0.00 | .941 | .566 | 6.84 | .1051 | .1003 | .0966 | .0936 | .1093 | .1045 | .1001 | .0973 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.7 69.6 150.0 15.0 32.7 69.6 150.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.28 | .873 | .444 | 6.77 | .1527 | .1479 | .1442 | .1412 | .1560 | .1520 | .1483 | .1457 |
| .340 | 4.32 | .965 | .520 | 6.78 | .1255 | .1208 | .1171 | .1142 | .1296 | .1249 | .1213 | .1187 |
| .380 | 2.83 | .974 | .569 | 7.27 | .1109 | .1060 | .1021 | .0990 | .1153 | .1104 | .1065 | .1034 |
| .420 | 1.50 | .981 | .265 | 7.25 | .1031 | .0974 | .0930 | .0895 | .1079 | .1022 | .0977 | .0947 |
| .460 | -.07 | .956 | .704 | 7.05 | .0967 | .0917 | .0878 | .0846 | .1010 | .0960 | .0921 | .0889 |

LP/V(1/3) = 6.5 LP (FT) = 16.7 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.08 | .900 | .346 | 7.31 | .1309 | .1257 | .1217 | .1185 | .1353 | .1302 | .1262 | .1230 |
| .340 | 3.54 | .961 | .393 | 7.43 | .1115 | .1063 | .1023 | .0991 | .1160 | .1109 | .1068 | .1036 |
| .380 | 2.32 | .974 | .133 | 9.73 | .1010 | .0951 | .0904 | .0867 | .1041 | .1001 | .0954 | .0917 |
| .420 | 1.10 | .981 | 0.000 | 8.61 | .0932 | .0875 | .0832 | .0771 | .0945 | .0918 | .0865 | .0823 |
| .460 | -.31 | .940 | .019 | 6.78 | .0877 | .0826 | .0777 | .0756 | .0918 | .0868 | .0829 | .0798 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.27 | .912 | .248 | 7.38 | .1165 | .1113 | .1072 | .1039 | .1210 | .1158 | .1117 | .1084 |
| .340 | 3.00 | .961 | .156 | 8.06 | .1030 | .0973 | .0928 | .0892 | .1070 | .1022 | .0977 | .0942 |
| .380 | 1.41 | .975 | 0.000 | 8.64 | .0926 | .0860 | .0808 | .0767 | .0979 | .0913 | .0861 | .0820 |
| .420 | 0.74 | .977 | 0.000 | 8.63 | .0839 | .0764 | .0713 | .0670 | .0891 | .0821 | .0766 | .0723 |
| .460 | -.44 | .941 | 0.000 | 7.33 | .0798 | .0743 | .0701 | .0667 | .0847 | .0788 | .0746 | .0712 |

LP/V(1/3) = 7.5 LP (FT) = 19.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.73 | .916 | .085 | 7.78 | .1081 | .1025 | .0981 | .0946 | .1124 | .1072 | .1029 | .0994 |
| .340 | 2.71 | .954 | 0.000 | 8.41 | .0966 | .0905 | .0858 | .0820 | .1018 | .0957 | .0909 | .0871 |
| .380 | 1.50 | .974 | 0.300 | 8.66 | .0844 | .0774 | .0727 | .0686 | .0897 | .0831 | .0780 | .0739 |
| .420 | 0.49 | .979 | 0.000 | 8.61 | .0770 | .0704 | .0652 | .0611 | .0823 | .0756 | .0705 | .0664 |
| .460 | -.50 | .988 | 0.000 | 8.40 | .0738 | .0676 | .0629 | .0590 | .0789 | .0728 | .0680 | .0642 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.38 | .924 | 0.000 | 8.26 | .1015 | .0955 | .0909 | .0872 | .1066 | .1006 | .0950 | .0922 |
| .340 | 2.38 | .958 | .001 | 8.69 | .0895 | .0833 | .0784 | .0746 | .0948 | .0886 | .0830 | .0799 |
| .380 | 1.33 | .972 | 0.000 | 8.69 | .0799 | .0737 | .0688 | .0650 | .0852 | .0790 | .0741 | .0707 |
| .420 | 0.35 | .974 | 0.000 | 8.84 | .0735 | .0673 | .0623 | .0584 | .0790 | .0727 | .0678 | .0638 |

RESISTANCE DATA SERIES 65-9 MODEL 5276

LP/SPX = 4.69

DEPARTURE ANGLE = 30.4 DEG

FND = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 54.0 125.0 12.5 26.9 54.0 125.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 7.50 | .925 | .603 | 5.42 | .1870 | .1821 | .1783 | .1752 | .1914 | .1865 | .1826 | .1795 | |
| .380 | 4.50 | .975 | .790 | 5.74 | .1542 | .1492 | .1452 | .1421 | .1588 | .1538 | .1498 | .1467 | |
| .420 | 2.16 | .987 | 1.000 | 6.03 | .1375 | .1323 | .1283 | .1250 | .1427 | .1371 | .1331 | .1298 | |
| .460 | .45 | 1.000 | .720 | 7.18 | .1387 | .1324 | .1274 | .1234 | .1445 | .1381 | .1332 | .1292 | |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 5.70 | .949 | .553 | 6.10 | .1578 | .1524 | .1481 | .1447 | .1627 | .1573 | .1530 | .1496 | |
| .380 | 3.61 | .972 | .770 | 6.33 | .1353 | .1298 | .1255 | .1220 | .1403 | .1348 | .1305 | .1271 | |
| .420 | 1.84 | .979 | .423 | 6.46 | .1239 | .1180 | .1134 | .1098 | .1290 | .1232 | .1186 | .1149 | |
| .460 | .38 | 1.000 | 0.000 | 7.01 | .1209 | .1140 | .1086 | .1043 | .1265 | .1196 | .1142 | .1099 | |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 6.84 | .815 | .444 | 6.07 | .1691 | .1635 | .1592 | .1558 | .1740 | .1684 | .1641 | .1607 | |
| .380 | 4.51 | .950 | .678 | 6.95 | .1370 | .1308 | .1260 | .1222 | .1425 | .1364 | .1316 | .1277 | |
| .420 | 3.00 | .977 | .660 | 6.99 | .1220 | .1168 | .1121 | .1083 | .1285 | .1224 | .1177 | .1139 | |
| .460 | 0.80 | .976 | 0.000 | 7.61 | .1133 | .1055 | .0997 | .0950 | .1161 | .1116 | .1058 | .1012 | |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 6.44 | .850 | .364 | 7.11 | .1486 | .1422 | .1372 | .1332 | .1547 | .1479 | .1429 | .1389 | |
| .380 | 3.65 | .959 | .460 | 7.50 | .1243 | .1177 | .1126 | .1085 | .1307 | .1237 | .1186 | .1145 | |
| .420 | 2.48 | .971 | .117 | 7.98 | .1140 | .1069 | .1013 | .0969 | .1204 | .1133 | .1077 | .1032 | |
| .460 | 1.25 | .974 | 0.000 | 8.81 | .1068 | .0983 | .0917 | .0865 | .1138 | .1054 | .0988 | .0935 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 4.50 | .890 | .277 | 7.64 | .1308 | .1240 | .1186 | .1143 | .1369 | .1301 | .1247 | .1204 | |
| .380 | 3.15 | .955 | .271 | 8.02 | .1147 | .1076 | .1021 | .0976 | .1212 | .1141 | .1085 | .1040 | |
| .420 | 2.01 | .972 | .046 | 8.92 | .1050 | .0977 | .0917 | .0862 | .1131 | .1040 | .0984 | .0933 | |
| .460 | 0.88 | .974 | 0.000 | 9.22 | .0993 | .0904 | .0834 | .0779 | .1167 | .1067 | .1008 | .0953 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 3.77 | .903 | .133 | 7.91 | .1183 | .1111 | .1055 | .1010 | .1246 | .1174 | .1118 | .1074 | |
| .380 | 2.78 | .959 | .070 | 8.63 | .1085 | .1006 | .0945 | .0896 | .1154 | .1075 | .1014 | .0965 | |
| .420 | 1.50 | .971 | 0.000 | 9.15 | .0975 | .0889 | .0822 | .0769 | .1049 | .0962 | .0895 | .0842 | |
| .460 | 0.54 | .969 | 0.000 | 8.96 | .0910 | .0825 | .0758 | .0705 | .0982 | .0896 | .0829 | .0776 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 3.38 | .915 | 0.000 | 8.36 | .1139 | .1067 | .1003 | .0956 | .1205 | .1129 | .1060 | .1022 | |
| .380 | 2.45 | .964 | 0.000 | 8.87 | .1043 | .0962 | .0899 | .0849 | .1114 | .1037 | .0970 | .0923 | |
| .420 | 1.21 | .967 | .001 | 8.75 | .0905 | .0826 | .0764 | .0714 | .0975 | .0896 | .0834 | .0784 | |
| .460 | 0.27 | .971 | 0.001 | 8.87 | .0833 | .0757 | .0690 | .0640 | .0904 | .0824 | .0761 | .0711 | |

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RESISTANCE DATA SERIES 65-9 MODEL 5236

LP/APX = 4.69 DEARISE ANGLE = 30.4 DEG FNW = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.55 | .809 | .566 | 5.26 | .2026 | .1954 | .1897 | .1852 | .2091 | .2028 | .1963 | .1918 |
| .380 | 6.00 | .962 | .658 | 5.70 | .1908 | .1832 | .1772 | .1724 | .1979 | .1903 | .1843 | .1795 |
| .420 | 2.58 | .986 | 1.000 | 6.80 | .1705 | .1619 | .1551 | .1496 | .1790 | .1704 | .1636 | .1581 |
| .460 | 1.62 | 1.000 | 1.000 | 7.47 | .1780 | .1686 | .1611 | .1551 | .1874 | .1779 | .1704 | .1645 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 7.17 | .873 | .469 | 5.42 | .1929 | .1854 | .1796 | .1749 | .1997 | .1922 | .1864 | .1817 |
| .380 | 4.50 | .963 | .678 | 6.44 | .1683 | .1599 | .1533 | .1480 | .1767 | .1679 | .1613 | .1569 |
| .420 | 1.89 | .988 | 1.000 | 7.89 | .1538 | .1450 | .1381 | .1326 | .1626 | .1539 | .1470 | .1414 |
| .460 | .26 | 1.000 | .394 | 8.20 | .1637 | .1525 | .1438 | .1368 | .1740 | .1629 | .1541 | .1471 |
| .500 | -.35 | 1.000 | 0.000 | 8.85 | .1688 | .1528 | .1405 | .1309 | .1799 | .1639 | .1516 | .1419 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.96 | .658 | .334 | 4.77 | .1928 | .1865 | .1816 | .1777 | .1992 | .1920 | .1871 | .1832 |
| .340 | 5.33 | .889 | .479 | 6.51 | .1690 | .1603 | .1535 | .1480 | .1771 | .1684 | .1616 | .1562 |
| .380 | 3.37 | .967 | .639 | 6.96 | .1531 | .1441 | .1371 | .1315 | .1618 | .1528 | .1468 | .1401 |
| .420 | 1.69 | .977 | .595 | 7.76 | .1438 | .1337 | .1258 | .1195 | .1575 | .1474 | .1375 | .1292 |
| .460 | .20 | 1.000 | .110 | 8.76 | .1471 | .1349 | .1254 | .1178 | .1581 | .1469 | .1367 | .1287 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.21 | .732 | .357 | 5.24 | .1733 | .1647 | .1580 | .1526 | .1811 | .1725 | .1658 | .1604 |
| .340 | 4.24 | .925 | .445 | 7.06 | .1545 | .1453 | .1381 | .1322 | .1634 | .1542 | .1469 | .1411 |
| .380 | 2.85 | .965 | .467 | 7.77 | .1476 | .1376 | .1297 | .1234 | .1577 | .1473 | .1394 | .1331 |
| .420 | 1.50 | .973 | 0.000 | 8.77 | .1374 | .1249 | .1152 | .1074 | .1483 | .1359 | .1261 | .1184 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.05 | .805 | .316 | 7.04 | .1586 | .1492 | .1418 | .1358 | .1674 | .1580 | .1505 | .1446 |
| .340 | 3.58 | .930 | .377 | 7.81 | .1499 | .1387 | .1307 | .1243 | .1586 | .1485 | .1404 | .1340 |
| .380 | 2.42 | .958 | .406 | 8.71 | .1412 | .1294 | .1201 | .1127 | .1521 | .1403 | .1310 | .1236 |
| .420 | 1.09 | .958 | 0.000 | 9.51 | .1267 | .1121 | .1007 | .0917 | .1387 | .1241 | .1128 | .1037 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.79 | .840 | .249 | 7.87 | .1509 | .1405 | .1322 | .1257 | .1607 | .1502 | .1420 | .1356 |
| .340 | 3.16 | .941 | .177 | 8.62 | .1435 | .1321 | .1231 | .1159 | .1543 | .1429 | .1339 | .1267 |
| .380 | 1.99 | .968 | 0.000 | 9.45 | .1325 | .1194 | .1091 | .1009 | .1443 | .1312 | .1209 | .1127 |
| .420 | .79 | .964 | 0.000 | 9.81 | .1218 | .1077 | .0968 | .0880 | .1340 | .1207 | .1098 | .1007 |
| .460 | -.39 | .979 | .205 | 9.12 | .1177 | .1058 | .0964 | .0889 | .1291 | .1172 | .1078 | .1003 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 42.1 92.0 200.0 20.0 42.1 92.0 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.88 | .852 | .117 | 8.56 | .1472 | .1356 | .1266 | .1193 | .1579 | .1463 | .1373 | .1309 |
| .340 | 2.76 | .955 | 0.000 | 9.40 | .1367 | .1233 | .1132 | .1052 | .1477 | .1350 | .1250 | .1170 |
| .380 | 1.62 | .965 | 0.000 | 9.59 | .1279 | .1158 | .1048 | .0967 | .1399 | .1270 | .1168 | .1087 |
| .420 | .59 | .980 | 0.014 | 9.59 | .1207 | .1078 | .0977 | .0896 | .1327 | .1198 | .1097 | .1015 |
| .460 | -.31 | .973 | 0.000 | 9.88 | .1132 | .1001 | .0898 | .0816 | .1257 | .1127 | .1019 | .0937 |

RESISTANCE DATA SERIES 65-B MODEL 523A

LP/BPX = 4.69 DEADRISE ANGLE = 30.4 DEG FNV = 3.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.4 LP (FT) = 13.7 29.6 63.8 137.5 131 29.6 63.8 137.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .340 | 7.5 | .705 | .406 | 4.36 | .2185 | .2099 | .2032 | .192b | .2263 | .2178 | .2110 | .2057 | .2005 |
| .380 | 6.75 | .845 | .455 | 5.18 | .2149 | .2051 | .1974 | .1912 | .2243 | .2144 | .2067 | .2005 | .1938 |
| .420 | 5.21 | .987 | .503 | 6.31 | .2102 | .1987 | .1897 | .1824 | .2216 | .2101 | .2010 | .1938 | .1875 |
| .460 | 3.11 | 1.000 | .563 | 7.77 | .2125 | .1989 | .1882 | .1795 | .2265 | .2129 | .2021 | .1935 | .1875 |
| .500 | .42 | .885 | 1.000 | 9.96 | .2474 | .2303 | .2168 | .2059 | .2653 | .2482 | .2347 | .2230 | .2130 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 7.50 | .621 | .319 | 4.33 | .2020 | .1934 | .1866 | .1812 | .2098 | .2012 | .1944 | .1890 | .1840 |
| .340 | 6.1v | .767 | .398 | 5.51 | .1952 | .1847 | .1764 | .1698 | .2052 | .1946 | .1864 | .1797 | .1747 |
| .380 | 4.50 | .942 | .530 | 6.80 | .1885 | .1762 | .1664 | .1586 | .2007 | .1884 | .1787 | .1708 | .1640 |
| .420 | 3.00 | .984 | .644 | 7.47 | .1890 | .1757 | .1652 | .1568 | .2024 | .1891 | .1786 | .1702 | .1620 |
| .460 | 1.09 | 1.000 | 1.060 | 9.44 | .2166 | .2007 | .1880 | .1778 | .2336 | .2176 | .2050 | .1948 | .1860 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 162 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.22 | .665 | .331 | 5.48 | .1853 | .1747 | .1663 | .1597 | .1918 | .1796 | .1699 | .1622 | .1560 |
| .340 | 4.80 | .845 | .381 | 6.58 | .1799 | .1677 | .1581 | .1504 | .1924 | .1787 | .1680 | .1593 | .1520 |
| .380 | 3.35 | .948 | .468 | 7.58 | .1787 | .1651 | .1543 | .1457 | .1918 | .1766 | .1650 | .1560 | .1480 |
| .420 | 1.90 | .966 | .593 | 8.16 | .1807 | .1663 | .1549 | .1458 | .1954 | .1810 | .1696 | .1605 | .1520 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.8 17.5 37.7 81.2 175.8

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.33 | .718 | .288 | 6.32 | .1800 | .1680 | .1585 | .1509 | .1914 | .1793 | .1699 | .1623 | .1560 |
| .340 | 4.01 | .876 | .334 | 7.45 | .1777 | .1641 | .1533 | .1446 | .1911 | .1775 | .1667 | .1581 | .1510 |
| .380 | 2.72 | .964 | .381 | 8.62 | .1782 | .1627 | .1505 | .1407 | .1937 | .1782 | .1660 | .1562 | .1490 |
| .420 | 1.50 | .967 | .236 | 8.98 | .1812 | .1648 | .1518 | .1413 | .1974 | .1809 | .1679 | .1575 | .1500 |
| .460 | .55 | .980 | 0.000 | 8.37 | .1848 | .1681 | .1549 | .1444 | .1999 | .1831 | .1700 | .1595 | .1510 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.63 | .754 | .241 | 7.13 | .1788 | .1654 | .1548 | .1464 | .1916 | .1782 | .1676 | .1592 | .1520 |
| .340 | 3.42 | .904 | .271 | 8.60 | .1766 | .1610 | .1487 | .1388 | .1921 | .1765 | .1642 | .1543 | .1470 |
| .380 | 2.90 | .944 | .255 | 9.06 | .1767 | .1603 | .1474 | .1370 | .1930 | .1766 | .1637 | .1533 | .1460 |
| .420 | 0.00 | .922 | 0.000 | 9.53 | .1380 | .1194 | .1054 | .0940 | .1551 | .1369 | .1226 | .1111 | .1040 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.10 | .787 | .189 | 8.26 | .1793 | .1639 | .1517 | .1420 | .1941 | .1787 | .1666 | .1569 | .1490 |
| .340 | 3.00 | .938 | .126 | 9.73 | .1756 | .1579 | .1438 | .1326 | .1931 | .1754 | .1613 | .1501 | .1420 |
| .380 | 2.01 | .967 | .038 | 9.92 | .1769 | .1585 | .1440 | .1324 | .1947 | .1763 | .1619 | .1503 | .1420 |
| .420 | .72 | .960 | 0.000 | 10.04 | .1730 | .1541 | .1393 | .1274 | .1911 | .1722 | .1573 | .1454 | .1370 |

RESISTANCE DATA SERIES 65-B MODEL 5236

LP/BPX = 4.69

DFADRISE ANGLE = 30.4 DEG

FWD = 3.50

WEIGHT = LIFT (LA, SF WATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.0 LP (FT) = 15.0 37.3 69.6 150.0 15.0 37.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.41 | .621 | .282 | 4.04 | .1930 | .1022 | .1738 | .1671 | .2129 | .1921 | .1837 | .1779 |
| .340 | 5.42 | .749 | .346 | 5.03 | .1943 | .1815 | .1714 | .1633 | .2066 | .1939 | .1837 | .1756 |
| .380 | 4.39 | .866 | .432 | 6.16 | .1986 | .1835 | .1715 | .1620 | .2137 | .1986 | .1865 | .1770 |
| .420 | 3.32 | .925 | .547 | 7.04 | .2054 | .1886 | .1753 | .1646 | .2227 | .2058 | .1925 | .1818 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.91 | .628 | .263 | 4.76 | .2011 | .1886 | .1788 | .1710 | .2127 | .2003 | .1905 | .1826 |
| .340 | 4.93 | .772 | .327 | 6.02 | .2036 | .1886 | .1767 | .1672 | .2184 | .2033 | .1914 | .1819 |
| .380 | 4.16 | .870 | .381 | 6.99 | .2068 | .1898 | .1763 | .1655 | .2239 | .2069 | .1935 | .1827 |
| .420 | 3.00 | .958 | .497 | 8.00 | .2148 | .1959 | .1810 | .1690 | .2344 | .2155 | .2006 | .1886 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 61.2 175.0 17.5 37.7 61.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.12 | .671 | .243 | 5.77 | .1971 | .1824 | .1707 | .1614 | .2113 | .1965 | .1849 | .1755 |
| .340 | 4.25 | .799 | .295 | 7.03 | .2000 | .1826 | .1689 | .1580 | .2172 | .1999 | .1862 | .1752 |
| .380 | 3.32 | .910 | .378 | 8.29 | .2050 | .1852 | .1696 | .1570 | .2253 | .2055 | .1899 | .1777 |
| .420 | 1.50 | .899 | .514 | 6.93 | .1980 | .1818 | .1690 | .1587 | .2150 | .1988 | .1860 | .1757 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.59 | .697 | .209 | 6.65 | .1981 | .1813 | .1681 | .1575 | .2144 | .1975 | .1844 | .1736 |
| .340 | 3.86 | .845 | .307 | 8.41 | .2018 | .1816 | .1656 | .1527 | .2224 | .2022 | .1862 | .1733 |
| .380 | 2.65 | .932 | .332 | 9.08 | .2024 | .1810 | .1641 | .1504 | .2247 | .2033 | .1863 | .1727 |
| .420 | 1.50 | .923 | .177 | 8.27 | .2088 | .1888 | .1729 | .1602 | .2291 | .2090 | .1932 | .1804 |
| .460 | .53 | .984 | .022 | 10.10 | .2575 | .2325 | .2128 | .1970 | .2822 | .2572 | .2375 | .2217 |
| .500 | 0.00 | 1.000 | 0.000 | 13.06 | .3113 | .2792 | .2539 | .2336 | .3432 | .3112 | .2859 | .2656 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.27 | .712 | .209 | 7.72 | .2061 | .1869 | .1718 | .1597 | .2250 | .2058 | .1907 | .1786 |
| .340 | 3.31 | .884 | .305 | 9.80 | .2089 | .1859 | .1675 | .1529 | .2329 | .2099 | .1916 | .1769 |
| .380 | 2.95 | .933 | .302 | 10.36 | .2131 | .1889 | .1697 | .1543 | .2384 | .2142 | .1951 | .1796 |
| .420 | 1.91 | .966 | .048 | 10.44 | .2394 | .2139 | .1939 | .1777 | .2649 | .2395 | .2194 | .2033 |

RESISTANCE DATA SERIES 65-B MODEL 5236

LP/APX = 4.69

DEADRISE ANGLE = 30.4 DFG

FNV = 4.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.1 35.1 75.4 161.5 16.2 35.0 75.4 162.5

| L/G L/P | TRIM (DFG) | Lk L0 | L/P | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------------|---------------|----------|------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| | | | | | | | | | | | | |
| .300 | 6.76 | .896 | .226 | 4.36 | .2526 | .2379 | .2263 | .2170 | .2665 | .2518 | .2402 | .2310 |
| .340 | 5.63 | .707 | .273 | 5.25 | .2570 | .2399 | .2264 | .2156 | .2738 | .2567 | .2432 | .2324 |
| .380 | 4.94 | .821 | .327 | 6.23 | .2637 | .2441 | .2286 | .2162 | .2837 | .2640 | .2485 | .2361 |
| .420 | 4.32 | .922 | .392 | 7.11 | .2714 | .2496 | .2324 | .2185 | .2941 | .2723 | .2551 | .2412 |
| .460 | 3.83 | .998 | .431 | 7.76 | .2785 | .2552 | .2367 | .2218 | .3033 | .2800 | .2615 | .2466 |
| .500 | 3.31 | 1.000 | .506 | 8.55 | .2922 | .2670 | .2470 | .2309 | .3195 | .2943 | .2743 | .2582 |

LP/V(1/3) = 7.1 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| L/G L/P | TRIM (DFG) | Lk L0 | L/P | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------------|---------------|----------|------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| | | | | | | | | | | | | |
| .300 | 6.24 | .591 | .211 | 4.95 | .2846 | .2681 | .2551 | .2447 | .3095 | .2839 | .2709 | .2605 |
| .340 | 5.52 | .704 | .251 | 5.98 | .2909 | .2707 | .2555 | .2433 | .3091 | .2899 | .2747 | .2625 |
| .380 | 4.87 | .825 | .298 | 7.14 | .2970 | .2748 | .2572 | .2431 | .3199 | .2977 | .2801 | .2659 |
| .420 | 4.25 | .930 | .345 | 8.18 | .3059 | .2803 | .2606 | .2448 | .3312 | .3064 | .2868 | .2709 |
| .460 | 3.81 | 1.000 | .391 | 9.03 | .3138 | .2870 | .2656 | .2485 | .3427 | .3158 | .2945 | .2774 |
| .500 | 3.30 | 1.000 | .463 | 9.09 | .3280 | .2990 | .2759 | .2573 | .3600 | .3309 | .3078 | .2892 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| L/G L/P | TRIM (DFG) | Lk L0 | L/P | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------------|---------------|----------|------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| | | | | | | | | | | | | |
| .300 | 5.15 | .630 | .186 | 5.95 | .2594 | .2399 | .2245 | .2121 | .2784 | .2589 | .2435 | .2312 |
| .340 | 4.40 | .758 | .237 | 7.35 | .2654 | .2423 | .2239 | .2092 | .2889 | .2658 | .2475 | .2328 |
| .380 | 3.86 | .857 | .295 | 8.64 | .2749 | .2485 | .2276 | .2108 | .3025 | .2761 | .2553 | .2385 |
| .420 | 3.32 | .965 | .361 | 9.86 | .2873 | .2581 | .2349 | .2162 | .3188 | .2896 | .2665 | .2478 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| L/G L/P | TRIM (DFG) | Lk L0 | L/P | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------------|---------------|----------|------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| | | | | | | | | | | | | |
| .300 | 4.24 | .685 | .197 | 7.31 | .2305 | .2072 | .1887 | .1739 | .2538 | .2305 | .2121 | .1973 |
| .340 | 3.59 | .819 | .296 | 9.73 | .2404 | .2125 | .1903 | .1725 | .2699 | .2420 | .2198 | .2020 |
| .380 | 3.00 | .925 | .364 | 10.80 | .2553 | .2235 | .1983 | .1779 | .2898 | .2581 | .2328 | .2125 |

RESISTANCE DATA SERIES 65-9 MODEL 5206

LP/ROX = 6.64 DEADRISE ANGLE = 30.4 DFG FNV = 1.00

WFLIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 132.5 16.2 75.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.99 | .970 | .547 | 6.24 | .0625 | .0609 | .0597 | .0587 | .0634 | .0622 | .0610 | .0600 |
| .340 | 2.30 | .985 | .518 | 6.32 | .0499 | .0484 | .0472 | .0462 | .0512 | .0496 | .0484 | .0474 |
| .380 | .75 | .992 | .489 | 6.59 | .0426 | .0410 | .0398 | .0388 | .0439 | .0423 | .0411 | .0401 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.51 | .967 | .474 | 6.66 | .0612 | .0596 | .0583 | .0574 | .0626 | .0609 | .0596 | .0586 |
| .340 | 2.02 | .978 | .511 | 6.63 | .0487 | .0470 | .0458 | .0448 | .0500 | .0485 | .0471 | .0461 |
| .380 | .65 | .989 | .538 | 7.09 | .0408 | .0390 | .0377 | .0366 | .0422 | .0405 | .0391 | .0380 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 107.5 18.7 40.4 87.0 107.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .955 | .398 | 7.21 | .0608 | .0590 | .0576 | .0565 | .0622 | .0604 | .0590 | .0579 |
| .340 | 1.72 | .979 | .417 | 7.09 | .0489 | .0471 | .0458 | .0447 | .0503 | .0486 | .0472 | .0461 |
| .380 | .49 | .993 | .260 | 7.21 | .0398 | .0380 | .0366 | .0355 | .0413 | .0394 | .0380 | .0369 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.63 | .972 | .301 | 7.74 | .0573 | .0554 | .0539 | .0527 | .0589 | .0570 | .0555 | .0543 |
| .340 | 1.57 | .977 | .244 | 7.41 | .0461 | .0442 | .0428 | .0416 | .0476 | .0457 | .0443 | .0431 |
| .380 | .36 | .978 | .066 | 7.06 | .0374 | .0355 | .0341 | .0330 | .0388 | .0370 | .0355 | .0344 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.0 91.6 212.5 21.2 45.0 91.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.31 | .971 | .158 | 8.13 | .0595 | .0484 | .0468 | .0456 | .0521 | .0501 | .0485 | .0472 |
| .340 | 1.30 | .972 | .063 | 7.60 | .0413 | .0394 | .0379 | .0367 | .0429 | .0409 | .0394 | .0382 |
| .380 | .26 | .976 | 0.000 | 6.93 | .0333 | .0315 | .0301 | .0290 | .0347 | .0329 | .0315 | .0304 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 40.5 104.4 225.0 22.5 40.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.05 | .944 | 0.000 | 8.47 | .0450 | .0428 | .0411 | .0398 | .0467 | .0445 | .0428 | .0415 |
| .340 | 1.14 | .969 | 0.000 | 7.85 | .0385 | .0355 | .0339 | .0326 | .0391 | .0370 | .0355 | .0342 |
| .380 | .11 | .977 | 0.000 | 6.93 | .0295 | .0277 | .0263 | .0252 | .0309 | .0291 | .0277 | .0266 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.84 | .957 | 0.000 | 8.90 | .0412 | .0389 | .0371 | .0357 | .0430 | .0407 | .0389 | .0375 |
| .340 | 1.01 | .971 | 0.000 | 8.31 | .0347 | .0325 | .0309 | .0295 | .0367 | .0342 | .0325 | .0312 |
| .380 | .11 | .978 | 0.000 | 7.14 | .0264 | .0246 | .0232 | .0221 | .0278 | .0260 | .0246 | .0235 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 57.8 116.0 249.9 25.0 53.1 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.67 | .955 | 0.000 | 9.55 | .0398 | .0367 | .0344 | .0329 | .0407 | .0383 | .0364 | .0349 |
| .340 | .90 | .976 | 0.000 | 9.09 | .0327 | .0304 | .0286 | .0272 | .0346 | .0322 | .0304 | .0290 |
| .380 | 0.00 | .977 | 0.035 | 7.38 | .0234 | .0216 | .0202 | .0190 | .0249 | .0231 | .0216 | .0205 |

RESISTANCE DATA SERIES 65-8 MODEL 5208

LP/BPX . 6.64 DEADRISE ANGLE . 30.4 DEG FNV . 1.25

| WEIGHT = LIFT (LB, SEAWATER) x 1000 | | | | | | | | | | | | | |
|-------------------------------------|------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP/V(1/3) = 6.5 | | | | | | | | | | | | | |
| LP (FT) = 16.2 35.0 75.4 162.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.26 | .940 | .596 | 6.29 | .1185 | .1161 | .1143 | .1129 | .1204 | .1181 | .1163 | .1148 | |
| .340 | 3.46 | .976 | .638 | 6.54 | .0934 | .0910 | .0891 | .0876 | .0954 | .0930 | .0912 | .0897 | |
| .380 | 1.87 | .986 | .749 | 7.00 | .0754 | .0733 | .0713 | .0698 | .0780 | .0755 | .0736 | .0720 | |
| .420 | -.27 | .997 | 1.000 | 7.03 | .0633 | .0609 | .0589 | .0574 | .0655 | .0631 | .0611 | .0596 | |
| LP/V(1/3) = 7.0 | | | | | | | | | | | | | |
| LP (FT) = 17.5 37.7 81.2 175.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.34 | .953 | .507 | 6.81 | .1002 | .0977 | .0958 | .0942 | .1024 | .0998 | .0979 | .0963 | |
| .340 | 2.78 | .975 | .526 | 6.96 | .0803 | .0777 | .0758 | .0742 | .0824 | .0799 | .0779 | .0763 | |
| .380 | 1.50 | .981 | .576 | 6.40 | .0659 | .0634 | .0614 | .0599 | .0681 | .0656 | .0636 | .0620 | |
| .420 | -.06 | .993 | .970 | 7.71 | .0535 | .0508 | .0487 | .0471 | .0559 | .0532 | .0512 | .0495 | |
| LP/V(1/3) = 7.5 | | | | | | | | | | | | | |
| LP (FT) = 18.7 40.4 87.0 187.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.65 | .946 | .434 | 7.31 | .0910 | .0883 | .0862 | .0845 | .0933 | .0906 | .0885 | .0868 | |
| .340 | 2.30 | .976 | .475 | 7.21 | .0729 | .0703 | .0682 | .0666 | .0752 | .0726 | .0705 | .0688 | |
| .380 | 1.00 | .981 | .387 | 7.25 | .0600 | .0574 | .0553 | .0536 | .0623 | .0596 | .0575 | .0559 | |
| .420 | -.27 | .995 | .197 | 8.42 | .0493 | .0466 | .0445 | .0435 | .0519 | .0487 | .0462 | .0441 | |
| LP/V(1/3) = 8.0 | | | | | | | | | | | | | |
| LP (FT) = 20.0 43.1 92.6 200.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.16 | .956 | .325 | 7.64 | .0849 | .0821 | .0799 | .0782 | .0873 | .0845 | .0823 | .0805 | |
| .340 | 1.95 | .977 | .289 | 7.58 | .0685 | .0657 | .0635 | .0618 | .0707 | .0681 | .0659 | .0641 | |
| .380 | .84 | .975 | .184 | 7.70 | .0563 | .0533 | .0511 | .0493 | .0587 | .0558 | .0535 | .0517 | |
| .420 | -.38 | 1.000 | 0.000 | 1.57 | .0477 | .0442 | .0415 | .0393 | .0503 | .0469 | .0441 | .0420 | |
| LP/V(1/3) = 8.5 | | | | | | | | | | | | | |
| LP (FT) = 21.2 45.8 98.6 212.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.77 | .966 | .196 | 7.06 | .0783 | .0754 | .0734 | .0713 | .0808 | .0779 | .0755 | .0738 | |
| .340 | 1.69 | .973 | .101 | 8.03 | .0628 | .0598 | .0574 | .0555 | .0653 | .0623 | .0599 | .0580 | |
| .380 | .66 | .970 | .015 | 8.12 | .0514 | .0483 | .0458 | .0438 | .0540 | .0508 | .0484 | .0464 | |
| LP/V(1/3) = 9.0 | | | | | | | | | | | | | |
| LP (FT) = 22.5 48.5 104.4 225.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.44 | .959 | .074 | 6.29 | .0706 | .0675 | .0651 | .0631 | .0732 | .0701 | .0677 | .0657 | |
| .340 | 1.50 | .968 | 0.000 | 8.65 | .0571 | .0538 | .0512 | .0492 | .0598 | .0565 | .0539 | .0519 | |
| .380 | .50 | .971 | 0.000 | 1.51 | .0465 | .0432 | .0406 | .0386 | .0491 | .0459 | .0433 | .0413 | |
| LP/V(1/3) = 9.5 | | | | | | | | | | | | | |
| LP (FT) = 23.7 51.2 110.2 237.4 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.17 | .960 | 0.000 | 8.04 | .0633 | .0599 | .0573 | .0551 | .0661 | .0627 | .0591 | .0580 | |
| .340 | 1.28 | .967 | 0.000 | 9.30 | .0511 | .0475 | .0447 | .0425 | .0541 | .0505 | .0476 | .0454 | |
| .380 | .36 | .974 | 0.000 | 8.82 | .0419 | .0385 | .0359 | .0338 | .0446 | .0413 | .0384 | .0365 | |
| LP/V(1/3) = 10.0 | | | | | | | | | | | | | |
| LP (FT) = 25.0 53.8 116.0 249.9 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP (DEG) | LP | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 1.94 | .945 | 0.000 | 0.84 | .0575 | .0537 | .0508 | .0485 | .0606 | .0568 | .0530 | .0516 | |
| .340 | 1.12 | .971 | 0.000 | 10.14 | .0465 | .0428 | .0398 | .0374 | .0498 | .0459 | .0429 | .0405 | |
| .380 | .24 | .978 | 0.000 | 9.05 | .0379 | .0345 | .0319 | .0298 | .0407 | .0373 | .0347 | .0326 | |

RESISTANCE DATA SERIES 65-9 MODEL 5204

LP/OPK = 6.64 DEARRISE ANGLE = 30.4 DEG FN = 1.50

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/W(1/3) = 6.5 LP (FT) = 16.2 31.0 75.4 162.5 16.2 31.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.59 | .916 | .614 | 6.31 | .1272 | .1240 | .1214 | .1194 | .1300 | .1264 | .1241 | .1222 | |
| .340 | 3.75 | .970 | .684 | 6.44 | .1038 | .1006 | .0980 | .0960 | .1067 | .1034 | .1014 | .0999 | |
| .380 | 2.20 | .984 | .869 | 6.70 | .0901 | .0868 | .0822 | .0802 | .0911 | .0874 | .0852 | .0832 | |
| .420 | .81 | .993 | 1.000 | 7.00 | .0785 | .0751 | .0724 | .0703 | .0816 | .0782 | .0755 | .0735 | |

LP/W(1/3) = 7.0 LP (FT) = 17.5 37.7 91.2 175.0 17.5 37.7 91.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.70 | .943 | .552 | 6.91 | .1117 | .1082 | .1054 | .1032 | .1144 | .1113 | .1085 | .1063 | |
| .340 | 3.15 | .970 | .563 | 6.92 | .0939 | .0904 | .0877 | .0855 | .0971 | .0936 | .0908 | .0883 | |
| .380 | 1.82 | .980 | .863 | 7.64 | .0795 | .0758 | .0729 | .0706 | .0830 | .0793 | .0763 | .0740 | |
| .420 | .50 | .989 | 1.000 | 7.90 | .0714 | .0677 | .0648 | .0624 | .0750 | .0713 | .0683 | .0660 | |

LP/W(1/3) = 7.5 LP (FT) = 18.7 40.4 97.0 187.5 18.7 40.4 97.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.87 | .930 | .465 | 7.32 | .1001 | .0966 | .0937 | .0913 | .1026 | .0999 | .0970 | .0946 | |
| .340 | 2.60 | .971 | .498 | 7.48 | .0851 | .0813 | .0784 | .0760 | .0884 | .0847 | .0817 | .0794 | |
| .380 | 1.50 | .980 | .542 | 7.51 | .0742 | .0705 | .0675 | .0652 | .0776 | .0738 | .0709 | .0686 | |
| .420 | .30 | .987 | .495 | 7.32 | .0670 | .0633 | .0603 | .0580 | .0703 | .0665 | .0636 | .0613 | |

LP/W(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.34 | .940 | .369 | 7.85 | .0920 | .0881 | .0850 | .0825 | .0955 | .0916 | .0885 | .0860 | |
| .340 | 2.21 | .975 | .427 | 7.80 | .0784 | .0743 | .0717 | .0693 | .0823 | .0784 | .0753 | .0729 | |
| .380 | 1.21 | .976 | .529 | 7.55 | .0691 | .0654 | .0623 | .0599 | .0727 | .0689 | .0657 | .0633 | |
| .420 | 0.00 | .988 | 0.000 | 7.30 | .0621 | .0581 | .0550 | .0525 | .0654 | .0614 | .0583 | .0559 | |

LP/W(1/3) = 8.5 LP (FT) = 21.2 45.8 94.6 212.5 21.2 45.8 94.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.00 | .955 | .232 | 8.12 | .0875 | .0837 | .0804 | .0778 | .0915 | .0873 | .0841 | .0815 | |
| .340 | 1.93 | .973 | .129 | 8.11 | .0739 | .0697 | .0663 | .0637 | .0775 | .0733 | .0700 | .0674 | |
| .380 | 1.00 | .970 | .838 | 7.95 | .0643 | .0601 | .0568 | .0542 | .0679 | .0637 | .0604 | .0577 | |
| .420 | -.04 | .986 | 0.000 | 7.58 | .0589 | .0548 | .0516 | .0491 | .0623 | .0582 | .0550 | .0525 | |

LP/W(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.61 | .955 | .089 | 8.35 | .0822 | .0779 | .0745 | .0718 | .0860 | .0816 | .0782 | .0755 | |
| .340 | 1.69 | .967 | 0.000 | 8.60 | .0689 | .0644 | .0608 | .0580 | .0724 | .0682 | .0647 | .0618 | |
| .380 | .83 | .968 | 0.000 | 8.47 | .0597 | .0552 | .0516 | .0488 | .0635 | .0590 | .0554 | .0526 | |
| .420 | -.14 | .987 | .035 | 7.65 | .0567 | .0527 | .0496 | .0471 | .0601 | .0561 | .0530 | .0505 | |

LP/W(1/3) = 9.5 LP (FT) = 23.7 51.7 110.2 237.4 23.7 51.7 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.33 | .944 | 0.000 | 8.82 | .0772 | .0726 | .0690 | .0661 | .0812 | .0766 | .0729 | .0700 | |
| .340 | 1.50 | .963 | 0.000 | 9.73 | .0645 | .0596 | .0558 | .0527 | .0687 | .0640 | .0609 | .0589 | |
| .380 | .71 | .971 | 0.000 | 9.80 | .0562 | .0515 | .0478 | .0448 | .0603 | .0555 | .0518 | .0488 | |
| .420 | -.21 | .986 | .109 | 7.51 | .0556 | .0517 | .0487 | .0464 | .0589 | .0551 | .0521 | .0497 | |

LP/W(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.09 | .937 | 0.000 | 9.58 | .0708 | .0657 | .0618 | .0587 | .0754 | .0701 | .0661 | .0630 | |
| .340 | 1.33 | .965 | 0.000 | 10.83 | .0593 | .0541 | .0499 | .0466 | .0639 | .0586 | .0544 | .0511 | |
| .380 | .99 | .977 | 0.000 | 9.59 | .0521 | .0471 | .0432 | .0401 | .0544 | .0494 | .0455 | .0424 | |
| .420 | -.37 | .980 | .162 | 6.97 | .0529 | .0494 | .0467 | .0445 | .0510 | .0476 | .0449 | .0427 | |

RESISTANCE DATA SEIFIS 45-B MOONFL 5208

LP/RY = 6.64 DEAPRISE ANGLE = 30.4 DEG FNV = 1.75

WEIGHT = LIFT (LP, SEAWATER) = 1000 17000 100000 1000000 1700 10700 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 5.81 | .888 | .605 | 6.17 | .1359 | .1717 | .1204 | .1257 | .1396 | .1154 | .1322 | .1295 |
| .340 | 7.73 | .971 | .697 | 6.60 | .1115 | .1071 | .1037 | .1009 | .1155 | .1111 | .1077 | .1049 |
| .380 | 2.33 | .979 | .870 | 6.86 | .0941 | .0937 | .0902 | .0874 | .1023 | .0979 | .0944 | .0916 |
| .420 | .97 | .988 | 1.000 | 6.99 | .0881 | .0836 | .0801 | .0773 | .0923 | .0879 | .0844 | .0816 |

LP/V(1/3) = 6.8 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.53 | .920 | .579 | 6.89 | .1182 | .1135 | .1100 | .1071 | .1224 | .1178 | .1142 | .1113 |
| .340 | 7.15 | .966 | .612 | 7.04 | .1020 | .0973 | .0937 | .0908 | .1063 | .1016 | .0980 | .0951 |
| .380 | 1.92 | .979 | .867 | 7.27 | .0893 | .0845 | .0805 | .0774 | .0940 | .0891 | .0853 | .0822 |
| .420 | .73 | .986 | 1.000 | 8.01 | .0819 | .0768 | .0729 | .0697 | .0866 | .0817 | .0778 | .0746 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.91 | .914 | .502 | 7.34 | .1082 | .1033 | .0995 | .0964 | .1127 | .1078 | .1040 | .1009 |
| .340 | 2.70 | .969 | .557 | 7.63 | .0945 | .0895 | .0856 | .0824 | .0992 | .0942 | .0902 | .0871 |
| .380 | 1.50 | .980 | .627 | 7.67 | .0832 | .0782 | .0743 | .0712 | .0879 | .0829 | .0789 | .0759 |
| .420 | .50 | .985 | .644 | 7.18 | .0783 | .0735 | .0698 | .0668 | .0827 | .0779 | .0742 | .0712 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.42 | .924 | .424 | 8.06 | .1006 | .0957 | .0910 | .0876 | .1055 | .1001 | .0959 | .0926 |
| .340 | 2.31 | .973 | .366 | 8.03 | .0884 | .0831 | .0789 | .0755 | .0933 | .0880 | .0838 | .0805 |
| .380 | 1.33 | .976 | .249 | 7.38 | .0798 | .0748 | .0709 | .0678 | .0843 | .0793 | .0754 | .0723 |
| .420 | .33 | .982 | .041 | 6.42 | .0754 | .0704 | .0674 | .0645 | .0793 | .0744 | .0712 | .0684 |

LP/V(1/3) = 8.6 LP (FT) = 21.7 45.9 99.6 212.5 21.7 45.8 98.6 212.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.09 | .945 | .296 | 8.87 | .0941 | .0882 | .0836 | .0798 | .0995 | .0936 | .0890 | .0853 |
| .340 | 2.11 | .971 | .156 | 8.41 | .0829 | .0772 | .0727 | .0691 | .0880 | .0821 | .0778 | .0742 |
| .380 | 1.11 | .972 | .035 | 7.56 | .0756 | .0704 | .0662 | .0629 | .0803 | .0750 | .0709 | .0676 |
| .420 | .14 | .981 | 0.000 | 6.51 | .0715 | .0672 | .0636 | .0607 | .0758 | .0712 | .0674 | .0647 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.66 | .945 | .146 | 9.29 | .0885 | .0822 | .0772 | .0733 | .0941 | .0878 | .0829 | .0790 |
| .340 | 1.77 | .966 | .012 | 8.85 | .0786 | .0724 | .0676 | .0638 | .0840 | .0778 | .0730 | .0692 |
| .380 | .95 | .970 | 0.000 | 8.06 | .0722 | .0666 | .0621 | .0586 | .0772 | .0715 | .0670 | .0635 |
| .420 | -.03 | .985 | .019 | 6.98 | .0687 | .0640 | .0603 | .0573 | .0729 | .0682 | .0645 | .0615 |

LP/V(1/3) = 9.6 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.37 | .938 | .031 | 9.95 | .0835 | .0769 | .0718 | .0677 | .0893 | .0828 | .0776 | .0735 |
| .340 | 1.57 | .965 | 0.000 | 9.40 | .0742 | .0676 | .0624 | .0584 | .0799 | .0734 | .0682 | .0641 |
| .380 | .80 | .973 | 0.040 | 8.76 | .0689 | .0619 | .0571 | .0533 | .0734 | .0673 | .0625 | .0587 |
| .420 | -.14 | .985 | .095 | 7.25 | .0651 | .0602 | .0564 | .0534 | .0695 | .0647 | .0608 | .0578 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.15 | .932 | 0.000 | 10.00 | .0794 | .0725 | .0671 | .0627 | .0855 | .0786 | .0732 | .0689 |
| .340 | 1.31 | .964 | 0.000 | 10.11 | .0707 | .0637 | .0582 | .0539 | .0769 | .0699 | .0644 | .0600 |
| .380 | .70 | .979 | 0.000 | 9.52 | .0649 | .0580 | .0532 | .0492 | .0707 | .0642 | .0591 | .0550 |
| .420 | -.22 | .980 | .127 | 7.37 | .0627 | .0579 | .0540 | .0510 | .0673 | .0624 | .0586 | .0555 |

RESISTANCE DATA SERIES 65-B MODEL 520A
 LP/DPX = 1.6' DEADRISE ANGLE = 30.4 DFG FLY = 2.0m

| WFIGHT = LIFT (LB, SEAWATER) = 1000 | | | | | | | | | | | | | |
|--|-------|-------|-------|--------|---------------------------|-------|-------|---------|--------------------------------|-------|-------|-------|--|
| 10000 | | | | 100000 | | | | 1000000 | | | | | |
| 1000 | | | | 10000 | | | | 100000 | | | | | |
| LP/V(1/3) = 6.5 LP (FT) = 16.7 35.4 75.4 162.5 16.2 15.0 75.4 162.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 5.60 | .869 | .601 | 6.07 | .1430 | .1378 | .1337 | .1304 | .1479 | .1426 | .1385 | .1352 | |
| .340 | 3.78 | .967 | .640 | 6.59 | .1208 | .1152 | .1108 | .1077 | .1261 | .1205 | .1161 | .1125 | |
| .380 | 2.38 | .978 | .736 | 6.75 | .1179 | .1023 | .0979 | .0944 | .1133 | .1077 | .1033 | .0998 | |
| .420 | 1.08 | .982 | 1.000 | 7.13 | .0995 | .0937 | .0892 | .0855 | .1052 | .0994 | .0949 | .0912 | |
| .460 | -1.38 | 1.000 | .924 | 8.31 | .0999 | .0930 | .0877 | .0834 | .1065 | .0997 | .0943 | .0900 | |
| LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.50 | .913 | .575 | 6.07 | .1274 | .1216 | .1170 | .1133 | .1329 | .1271 | .1225 | .1188 | |
| .340 | 3.16 | .964 | .554 | 1.12 | .1122 | .1061 | .1014 | .0976 | .1179 | .1118 | .1071 | .1033 | |
| .380 | 1.95 | .977 | .914 | 7.69 | .1008 | .0945 | .0897 | .0858 | .1079 | .1008 | .0959 | .0920 | |
| .420 | -.80 | .987 | .887 | 0.00 | .0933 | .0866 | .0814 | .0771 | .1020 | .0933 | .0880 | .0837 | |
| .460 | -1.43 | 1.000 | 0.900 | 0.00 | .0886 | .0792 | .0749 | .0662 | .0954 | .0860 | .0787 | .0730 | |
| LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 117.5 18.7 40.4 87.0 117.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.89 | .904 | .492 | 7.43 | .1181 | .1118 | .1069 | .1029 | .1211 | .1178 | .1128 | .1088 | |
| .340 | 2.71 | .969 | .542 | 7.78 | .1050 | .0985 | .0934 | .0893 | .1113 | .1048 | .0997 | .0956 | |
| .380 | 1.63 | .976 | .641 | 7.85 | .0951 | .0887 | .0836 | .0796 | .1014 | .0950 | .0899 | .0854 | |
| .420 | -.59 | .980 | .457 | 7.54 | .0897 | .0829 | .0779 | .0739 | .0957 | .0889 | .0839 | .0799 | |
| LP/V(1/3) = 8.0 LP (FT) = 20.0 41.1 92.0 200.0 20.0 41.1 92.0 200.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.42 | .913 | .417 | 8.18 | .1111 | .1047 | .0988 | .0944 | .1177 | .1107 | .1053 | .1009 | |
| .340 | 2.36 | .968 | .740 | 8.18 | .0995 | .0926 | .0872 | .0828 | .1060 | .0991 | .0937 | .0894 | |
| .380 | 1.36 | .974 | .298 | 7.50 | .0904 | .0840 | .0790 | .0750 | .0964 | .0900 | .0850 | .0810 | |
| .420 | -.47 | .980 | .196 | 6.71 | .0860 | .0800 | .0754 | .0717 | .0913 | .0854 | .0807 | .0770 | |
| LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.09 | .922 | .339 | 9.04 | .1060 | .0993 | .0923 | .0875 | .1132 | .1056 | .0996 | .0948 | |
| .340 | 2.07 | .964 | .183 | 8.40 | .0941 | .0869 | .0812 | .0767 | .1009 | .0936 | .0879 | .0834 | |
| .380 | 1.14 | .972 | .040 | 7.31 | .0859 | .0794 | .0744 | .0703 | .0918 | .0853 | .0802 | .0762 | |
| .420 | -.26 | .979 | 0.000 | 6.57 | .0825 | .0766 | .0720 | .0683 | .0878 | .0819 | .0773 | .0736 | |
| LP/V(1/3) = 9.0 LP (FT) = 21.5 41.5 104.4 225.0 22.5 44.5 104.4 225.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.77 | .922 | .209 | 9.63 | .1006 | .0925 | .0861 | .0810 | .1082 | .1011 | .0947 | .0886 | |
| .340 | 1.81 | .961 | .028 | 8.67 | .0895 | .0819 | .0759 | .0712 | .0964 | .0888 | .0828 | .0781 | |
| .380 | .97 | .972 | 0.000 | 7.57 | .0826 | .0758 | .0705 | .0663 | .0886 | .0819 | .0765 | .0723 | |
| .420 | -.15 | .979 | 0.000 | 6.86 | .0802 | .0742 | .0694 | .0656 | .0857 | .0797 | .0749 | .0711 | |
| LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.48 | .918 | .094 | 9.60 | .0980 | .0885 | .0829 | .0785 | .1028 | .0944 | .0877 | .0824 | |
| .340 | 1.60 | .960 | 0.000 | 9.11 | .0852 | .0771 | .0708 | .0667 | .0925 | .0844 | .0781 | .0730 | |
| .380 | .91 | .976 | 0.000 | 8.20 | .0795 | .0723 | .0665 | .0620 | .0861 | .0788 | .0731 | .0685 | |
| .420 | 0.00 | .978 | .036 | 7.28 | .0779 | .0716 | .0667 | .0627 | .0837 | .0774 | .0725 | .0685 | |
| LP/V(1/3) = 10.0 LP (FT) = 25.0 53.0 116.1 249.9 25.0 53.0 116.1 249.9 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DFG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.23 | .917 | .086 | 10.17 | .0902 | .0814 | .0744 | .0688 | .0943 | .0855 | .0825 | .0770 | |
| .340 | 1.41 | .964 | 0.000 | 9.87 | .0814 | .0731 | .0663 | .0620 | .0895 | .0811 | .0742 | .0683 | |
| .380 | .69 | .982 | 1.000 | 9.07 | .0770 | .0691 | .0629 | .0579 | .0843 | .0764 | .0702 | .0652 | |
| .420 | -.06 | .976 | .064 | 7.71 | .0756 | .0680 | .0639 | .0598 | .0814 | .0752 | .0700 | .0659 | |

RESISTANCE DATA SERIES 65-B MODEL 5204

LP/DPX = 6.64 DEADWISE ANGLE = 50.4 DEG FNO = 2.50

WEIGHT & LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.6 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 6.00 | .801 | .558 | 5.85 | .1667 | .1591 | .1530 | .1482 | .1740 | .1664 | .1603 | .1555 | |
| .340 | 3.81 | .950 | .692 | 6.59 | .1423 | .1340 | .1275 | .1222 | .1505 | .1423 | .1357 | .1305 | |
| .380 | 2.31 | .977 | .946 | 7.77 | .1305 | .1222 | .1157 | .1105 | .1389 | .1307 | .1242 | .1189 | |
| .420 | .95 | .947 | .849 | 7.18 | .1264 | .1175 | .1106 | .1050 | .1354 | .1266 | .1196 | .1140 | |
| .460 | -.30 | .996 | 0.000 | 7.86 | .1303 | .1176 | .1077 | .1099 | .1401 | .1274 | .1176 | .1098 | |

LP/V(1/3) = 7.0 LP (FT) = 11.5 37.7 81.2 115.8 11.5 37.7 81.2 115.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 4.80 | .844 | .548 | 6.59 | .1493 | .1409 | .1342 | .1289 | .1575 | .1491 | .1424 | .1371 | |
| .340 | 3.17 | .958 | .604 | 7.10 | .1356 | .1267 | .1197 | .1140 | .1444 | .1356 | .1285 | .1229 | |
| .380 | 1.93 | .980 | .962 | 7.78 | .1254 | .1161 | .1087 | .1028 | .1351 | .1258 | .1184 | .1125 | |
| .420 | .73 | .974 | .820 | 1.75 | .1210 | .1116 | .1041 | .0981 | .1307 | .1213 | .1138 | .1078 | |
| .460 | -.76 | 1.000 | 0.000 | 6.10 | .1253 | .1145 | .1062 | .0997 | .1329 | .1221 | .1138 | .1073 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 47.0 167.5 18.7 41.4 87.0 147.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.94 | .871 | .466 | 1.30 | .1392 | .1299 | .1226 | .1167 | .1484 | .1390 | .1311 | .1258 | |
| .340 | 2.67 | .958 | .630 | 4.09 | .1283 | .1185 | .1105 | .1042 | .1384 | .1284 | .1206 | .1143 | |
| .380 | 1.60 | .978 | .955 | 8.65 | .1219 | .1117 | .1036 | .0971 | .1328 | .1225 | .1144 | .1079 | |
| .420 | .73 | .974 | .757 | 8.29 | .1192 | .1092 | .1012 | .0949 | .1285 | .1195 | .1116 | .1052 | |
| .460 | -.46 | 1.000 | 0.000 | 5.54 | .1151 | .1007 | .0899 | .0816 | .1220 | .1177 | .1099 | .1036 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.0 200.0 20.0 43.1 92.4 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.32 | .904 | .344 | 4.19 | .1323 | .1219 | .1136 | .1070 | .1425 | .1328 | .1238 | .1172 | |
| .340 | 2.31 | .962 | .482 | 8.60 | .1241 | .1135 | .1051 | .0983 | .1348 | .1242 | .1158 | .1090 | |
| .380 | 1.50 | .970 | .856 | 8.56 | .1196 | .1092 | .1010 | .0943 | .1303 | .1199 | .1117 | .1050 | |
| .420 | .58 | .974 | .408 | 7.91 | .1179 | .1080 | .1002 | .0940 | .1278 | .1179 | .1101 | .1038 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.4 94.6 212.5 21.2 45.8 90.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.00 | .909 | .140 | 4.74 | .1297 | .1183 | .1093 | .1021 | .1406 | .1292 | .1202 | .1130 | |
| .340 | 2.02 | .957 | .163 | 4.51 | .1210 | .1100 | .1013 | .0944 | .1316 | .1206 | .1120 | .1050 | |
| .380 | 1.23 | .971 | .169 | 8.09 | .1166 | .1062 | .0980 | .0914 | .1267 | .1163 | .1081 | .1015 | |
| .420 | .43 | .978 | .097 | 7.67 | .1162 | .1062 | .0984 | .0921 | .1258 | .1158 | .1079 | .1016 | |

LP/V(1/3) = 9.0 LP (FT) = 27.5 44.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.64 | .909 | 0.000 | 4.95 | .1256 | .1137 | .1042 | .0967 | .1368 | .1248 | .1154 | .1079 | |
| .340 | 1.79 | .957 | 0.000 | 8.50 | .1177 | .1053 | .0974 | .0903 | .1273 | .1169 | .1080 | .1009 | |
| .380 | 1.06 | .976 | 0.000 | 8.12 | .1139 | .1031 | .0946 | .0878 | .1240 | .1132 | .1048 | .0980 | |
| .420 | .30 | .981 | 0.000 | 8.02 | .1144 | .1038 | .0955 | .0889 | .1244 | .1138 | .1055 | .0989 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.36 | .910 | 0.000 | 9.12 | .1217 | .1093 | .0995 | .0917 | .1331 | .1207 | .1109 | .1031 | |
| .340 | 1.60 | .959 | 0.000 | 8.88 | .1146 | .1027 | .0933 | .0856 | .1257 | .1138 | .1044 | .0968 | |
| .380 | .94 | .981 | 0.000 | 8.66 | .1113 | .0999 | .0908 | .0836 | .1222 | .1107 | .1016 | .0944 | |
| .420 | .19 | .981 | 0.000 | 4.62 | .1123 | .1010 | .0922 | .0851 | .1230 | .1118 | .1029 | .0959 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.4 116.0 249.0 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.14 | .912 | 0.000 | 9.60 | .1191 | .1052 | .0950 | .0869 | .1301 | .1172 | .1070 | .0989 | |
| .340 | 1.50 | .951 | 0.000 | 9.65 | .1122 | .0994 | .0893 | .0812 | .1242 | .1114 | .1013 | .0933 | |
| .380 | .84 | .986 | 0.000 | 9.51 | .1090 | .0965 | .0868 | .0789 | .1204 | .1084 | .0986 | .0908 | |
| .420 | .11 | .979 | 0.000 | 9.04 | .1100 | .0983 | .0881 | .0818 | .1214 | .1097 | .1005 | .0931 | |

RESISTANCE DATA SERIES 65-9 MODEL 5209

LP/PPX = 6.64 DEADRISE ANGLE = 13.4 DEG FNV = 3.00

WEIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.6 LP (FT) = 16.2 35.0 75.4 162.2 16.2 35.0 75.4 162.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.26 | .650 | .501 | 5.12 | .1917 | .1816 | .1740 | .1679 | .2004 | .1904 | .1832 | .1771 |
| .340 | 4.50 | .920 | .617 | 6.44 | .1729 | .1616 | .1525 | .1451 | .1845 | .1731 | .1641 | .1568 |
| .380 | 2.50 | .914 | .892 | 7.16 | .1627 | .1506 | .1409 | .1332 | .1756 | .1634 | .1538 | .1460 |
| .420 | .61 | .997 | .640 | 8.29 | .1679 | .1501 | .1401 | .1310 | .1780 | .1633 | .1532 | .1451 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 6.54 | .668 | .477 | 5.37 | .1982 | .1867 | .1804 | .1741 | .2078 | .1979 | .1900 | .1827 |
| .340 | 4.25 | .915 | .576 | 7.07 | .1782 | .1658 | .1560 | .1481 | .1909 | .1785 | .1687 | .1609 |
| .380 | 2.73 | 1.000 | .783 | 7.85 | .1717 | .1595 | .1480 | .1395 | .1854 | .1726 | .1621 | .1536 |
| .420 | 1.50 | 1.000 | 1.000 | 8.44 | .1674 | .1536 | .1426 | .1338 | .1826 | .1688 | .1578 | .1490 |
| .460 | -.10 | 1.000 | 0.000 | 8.89 | .1671 | .1555 | .1465 | .1392 | .1877 | .1731 | .1611 | .1529 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.87 | .766 | .468 | 6.66 | .1744 | .1624 | .1530 | .1464 | .1864 | .1744 | .1649 | .1574 |
| .340 | 3.14 | .952 | .561 | 7.89 | .1562 | .1527 | .1419 | .1333 | .1804 | .1669 | .1561 | .1475 |
| .380 | 1.99 | .994 | .996 | 9.21 | .1598 | .1449 | .1329 | .1233 | .1763 | .1614 | .1494 | .1398 |
| .420 | .85 | .991 | .973 | 9.09 | .1608 | .1459 | .1341 | .1246 | .1771 | .1623 | .1505 | .1410 |
| .460 | -.41 | 1.000 | 0.000 | 4.20 | .1829 | .1716 | .1629 | .1561 | .1904 | .1791 | .1705 | .1637 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.67 | .839 | .452 | 7.00 | .1818 | .1681 | .1577 | .1506 | .1958 | .1821 | .1713 | .1625 |
| .340 | P.42 | .947 | .678 | 8.03 | .1555 | .1504 | .1384 | .1288 | .1718 | .1567 | .1447 | .1350 |
| .380 | 1.50 | .967 | .820 | 9.52 | .1574 | .1368 | .1248 | .1144 | .1646 | .1490 | .1365 | .1261 |
| .420 | .60 | .975 | .552 | 8.61 | .1561 | .1415 | .1299 | .1206 | .1715 | .1570 | .1454 | .1361 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.12 | .858 | .451 | 0.70 | .1617 | .1459 | .1340 | .1244 | .1766 | .1616 | .1497 | .1401 |
| .340 | 2.10 | .940 | .423 | 9.09 | .1548 | .1393 | .1269 | .1170 | .1712 | .1556 | .1433 | .1333 |
| .380 | 1.30 | .973 | .327 | 8.86 | .1525 | .1372 | .1250 | .1152 | .1684 | .1531 | .1410 | .1312 |
| .420 | .69 | .985 | .149 | 7.96 | .1566 | .1424 | .1312 | .1222 | .1709 | .1560 | .1455 | .1365 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.74 | .864 | .310 | 9.04 | .1608 | .1450 | .1325 | .1225 | .1771 | .1613 | .1488 | .1387 |
| .340 | 1.83 | .945 | .063 | 8.74 | .1535 | .1378 | .1254 | .1154 | .1693 | .1536 | .1411 | .1311 |
| .380 | 1.11 | .983 | 0.000 | 8.23 | .1514 | .1362 | .1242 | .1146 | .1662 | .1510 | .1390 | .1294 |
| .420 | .37 | .990 | 0.000 | 1.59 | .1568 | .1428 | .1317 | .1229 | .1705 | .1564 | .1454 | .1365 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.42 | .875 | .073 | 9.03 | .1597 | .1434 | .1305 | .1201 | .1759 | .1596 | .1467 | .1364 |
| .340 | 1.61 | .955 | 0.000 | 0.60 | .1521 | .1358 | .1229 | .1127 | .1676 | .1513 | .1384 | .1281 |
| .380 | .94 | .991 | 0.000 | 8.13 | .1506 | .1349 | .1226 | .1127 | .1652 | .1495 | .1372 | .1274 |
| .420 | .24 | .989 | 0.000 | 7.66 | .1578 | .1437 | .1325 | .1236 | .1716 | .1575 | .1450 | .1374 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.15 | .891 | 0.000 | 9.28 | .1547 | .1374 | .1238 | .1129 | .1714 | .1541 | .1405 | .1296 |
| .340 | 1.50 | .959 | 1.000 | 9.18 | .1482 | .1308 | .1171 | .1061 | .1644 | .1473 | .1336 | .1226 |
| .380 | .84 | .996 | 0.000 | 8.88 | .1468 | .1300 | .1160 | .1062 | .1628 | .1460 | .1328 | .1222 |
| .420 | .15 | .985 | 0.000 | 8.31 | .1543 | .1393 | .1275 | .1179 | .1693 | .1543 | .1424 | .1329 |

RESISTANCE DATA SERIES 65-9 MODFL 521A

LP/DPX = 6.64 DEGRISE ANGLE = 30.4 DEG FWD = 3.50

HEIGHT = LIFT (LG, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.5 LP (FT) = 10.7 40.4 87.0 187.5 19.7 40.4 87.0 187.5

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.70 | .835 | .438 | 6.59 | .1667 | .1611 | .1388 | .1209 | .1928 | .1673 | .1549 | .1450 |
| .340 | 7.00 | .864 | .829 | 7.07 | .1677 | .1509 | .1360 | .1246 | .1872 | .1605 | .1555 | .1441 |
| .420 | 7.28 | .854 | .756 | 7.40 | .1901 | .1725 | .1506 | .1475 | .2082 | .1906 | .1767 | .1656 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 25.0 43.1 92.8 200.0

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.63 | .718 | .418 | 6.80 | .2055 | .1493 | .1765 | .1662 | .2271 | .2059 | .1971 | .1829 |
| .340 | 7.42 | .819 | .477 | 8.24 | .2095 | .1906 | .1755 | .1637 | .2309 | .2110 | .1959 | .1837 |
| .420 | 7.37 | 1.000 | .757 | 9.82 | .2117 | .1809 | .1730 | .1594 | .2383 | .2140 | .1970 | .1833 |
| .470 | 1.37 | 1.000 | .948 | 10.57 | .2163 | .1959 | .1760 | .1616 | .2422 | .2199 | .2019 | .1875 |
| .490 | 0.00 | 1.000 | 0.000 | 8.07 | .2481 | .2288 | .2173 | .2009 | .2641 | .2485 | .2371 | .2207 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.41 | .779 | .498 | 8.10 | .1978 | .1789 | .1640 | .1520 | .2175 | .1988 | .1831 | .1718 |
| .340 | 7.54 | .908 | .439 | 9.49 | .2011 | .1800 | .1631 | .1495 | .2244 | .2032 | .1864 | .1728 |
| .420 | 1.66 | .973 | .663 | 10.14 | .2037 | .1812 | .1636 | .1494 | .2281 | .2061 | .1886 | .1742 |
| .470 | .72 | 1.000 | .495 | 9.62 | .2137 | .1928 | .1762 | .1628 | .2367 | .2159 | .1992 | .1858 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .793 | .461 | 9.02 | .2010 | .1801 | .1676 | .1593 | .2271 | .2022 | .1857 | .1724 |
| .340 | 2.13 | .896 | .427 | 9.88 | .2006 | .1785 | .1699 | .1467 | .2248 | .2027 | .1851 | .1709 |
| .380 | 1.34 | .978 | .410 | 9.93 | .2031 | .1810 | .1634 | .1492 | .2274 | .2053 | .1877 | .1735 |
| .470 | .48 | 1.000 | .721 | 8.81 | .2147 | .1941 | .1782 | .1653 | .2358 | .2157 | .1997 | .1869 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.88 | .808 | .273 | 9.49 | .2014 | .1798 | .1623 | .1483 | .2250 | .2030 | .1856 | .1715 |
| .340 | 1.86 | .925 | .208 | 9.96 | .1982 | .1753 | .1572 | .1426 | .2225 | .1997 | .1816 | .1670 |
| .380 | 1.13 | .993 | .133 | 9.74 | .1991 | .1768 | .1590 | .1447 | .2270 | .2006 | .1829 | .1685 |
| .470 | .78 | 1.000 | .045 | 8.68 | .2199 | .1985 | .1737 | .1608 | .2312 | .2119 | .1950 | .1821 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.0 25.0 53.8 116.0 249.0

| LOG LP (1/3) | TRIM LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.41 | .833 | .127 | 9.81 | .2110 | .1780 | .1597 | .1450 | .2251 | .2020 | .1838 | .1691 |
| .340 | 1.64 | .946 | .027 | 10.22 | .1942 | .1702 | .1512 | .1360 | .2192 | .1952 | .1763 | .1610 |
| .380 | .96 | 1.000 | 0.000 | 9.94 | .1944 | .1712 | .1527 | .1379 | .2188 | .1955 | .1779 | .1622 |
| .420 | .28 | 1.000 | 0.000 | 8.83 | .2068 | .1861 | .1697 | .1565 | .2284 | .2077 | .1913 | .1781 |

RESISTANCE DATA SERIES 65-B MODEL 520A

LP/APP = 6.64 DEADRISE ANGLE = 30.4 DEG FNW = 4.00

WFLIGHT = LIFT (LP, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.9 43.1 92.8 200.0 20.9 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.27 | .781 | .402 | 7.09 | .1978 | .1766 | .1597 | .1481 | .2365 | .1992 | .1824 | .1688 |
| .340 | 2.29 | .855 | .654 | 8.25 | .2077 | .1842 | .1655 | .1504 | .2341 | .2106 | .1919 | .1768 |
| .380 | .56 | .879 | .517 | 8.72 | .2410 | .2157 | .1957 | .1795 | .2688 | .2436 | .2235 | .2074 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.6 21.2 45.8 98.6 212.6

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.42 | .738 | .376 | 7.50 | .2296 | .2072 | .1894 | .1750 | .2536 | .2312 | .2133 | .1990 |
| .340 | 3.00 | .898 | .439 | 8.95 | .2439 | .2191 | .1976 | .1810 | .2726 | .2468 | .2262 | .2097 |
| .380 | 2.28 | .970 | .688 | 9.97 | .2556 | .2278 | .2056 | .1877 | .2874 | .2596 | .2375 | .2195 |
| .420 | 1.24 | 1.000 | .667 | 10.46 | .2774 | .2486 | .2257 | .2072 | .3108 | .2821 | .2592 | .2406 |
| .460 | -.35 | 1.000 | 0.000 | 7.15 | .3300 | .3056 | .2863 | .2710 | .3528 | .3284 | .3092 | .2939 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.10 | .773 | .344 | 8.44 | .2251 | .2001 | .1803 | .1644 | .2521 | .2271 | .2073 | .1913 |
| .340 | 2.30 | .982 | .415 | 9.53 | .2385 | .2111 | .1894 | .1718 | .2689 | .2416 | .2199 | .2023 |
| .380 | 1.50 | .957 | .470 | 9.93 | .2537 | .2257 | .2033 | .1853 | .2855 | .2574 | .2351 | .2170 |
| .420 | .30 | .979 | .152 | 8.00 | .2834 | .2595 | .2406 | .2253 | .3199 | .2954 | .2764 | .2512 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.52 | .784 | .272 | 9.04 | .2186 | .1919 | .1706 | .1535 | .2475 | .2208 | .1995 | .1824 |
| .340 | 1.69 | .898 | .249 | 9.85 | .2298 | .2018 | .1795 | .1615 | .2607 | .2326 | .2103 | .1923 |
| .380 | .80 | .957 | .162 | 8.90 | .2455 | .2195 | .1988 | .1821 | .2740 | .2480 | .2273 | .2103 |
| .420 | -.20 | .901 | 0.000 | 5.48 | .2730 | .2560 | .2426 | .2318 | .2995 | .2775 | .2601 | .2493 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.76 | .803 | .168 | 9.60 | .2186 | .1900 | .1673 | .1490 | .2493 | .2207 | .1980 | .1797 |
| .340 | 1.50 | .913 | .121 | 10.05 | .2235 | .1940 | .1705 | .1516 | .2557 | .2261 | .2027 | .1837 |
| .380 | .65 | .965 | .056 | 9.07 | .2368 | .2100 | .1888 | .1717 | .2658 | .2391 | .2174 | .2007 |
| .420 | -.16 | .903 | 0.000 | 6.00 | .2640 | .2455 | .2309 | .2191 | .2834 | .2650 | .2503 | .2385 |

RESISTANCE DATA SERIES 65-B MODFL 523A

LP/DPX = 9.39

DEADWISE ANGLE = 70.4 DEG

FNO = 1.00

WRIGHT = LIFT (L₀, SFAHATFR) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.76 | .975 | .551 | 6.79 | .0549 | .0524 | .0511 | .0501 | .0557 | .0537 | .0525 | .0514 |
| .340 | 1.51 | .998 | .624 | 6.97 | .0427 | .0411 | .0398 | .0388 | .0441 | .0425 | .0412 | .0402 |
| .380 | .42 | .996 | .871 | 7.27 | .0354 | .0337 | .0324 | .0314 | .0369 | .0352 | .0339 | .0329 |
| .420 | -.37 | 1.000 | 1.000 | 7.63 | .0337 | .0320 | .0307 | .0297 | .0359 | .0336 | .0322 | .0312 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.32 | .990 | .442 | 7.30 | .0484 | .0467 | .0453 | .0442 | .0499 | .0481 | .0468 | .0457 |
| .340 | 1.24 | .983 | .556 | 7.31 | .0399 | .0382 | .0368 | .0359 | .0413 | .0396 | .0383 | .0372 |
| .380 | .35 | .999 | .658 | 7.74 | .0357 | .0340 | .0327 | .0316 | .0372 | .0355 | .0342 | .0331 |
| .420 | -.33 | 1.000 | .783 | 7.45 | .0351 | .0334 | .0321 | .0311 | .0366 | .0349 | .0336 | .0325 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 2.03 | .990 | .442 | 7.67 | .0461 | .0443 | .0429 | .0418 | .0477 | .0459 | .0444 | .0433 |
| .340 | 1.14 | .976 | .460 | 7.50 | .0409 | .0392 | .0378 | .0367 | .0424 | .0407 | .0393 | .0382 |
| .380 | .35 | .983 | .467 | 7.77 | .0362 | .0345 | .0331 | .0320 | .0377 | .0359 | .0346 | .0335 |
| .420 | -.42 | 1.000 | .462 | 7.40 | .0307 | .0290 | .0276 | .0266 | .0322 | .0305 | .0291 | .0280 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 1.85 | .976 | .371 | 7.96 | .0484 | .0465 | .0450 | .0439 | .0500 | .0481 | .0466 | .0455 |
| .340 | 1.12 | .974 | .363 | 7.75 | .0440 | .0422 | .0407 | .0396 | .0456 | .0437 | .0423 | .0412 |
| .380 | .33 | .981 | .342 | 7.64 | .0367 | ----- | .0334 | .0323 | .0382 | .0364 | .0350 | .0338 |
| .420 | -.49 | 1.000 | .303 | 7.79 | .0224 | .0205 | .0191 | .0179 | .0239 | .0221 | .0207 | .0195 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 57.9 115.0 244.9 25.0 57.9 115.0 244.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .300 | 1.67 | .970 | .293 | 8.32 | .0493 | .0473 | .0458 | .0446 | .0510 | .0490 | .0475 | .0462 |
| .340 | .97 | .974 | .270 | 8.13 | .0446 | .0426 | .0411 | .0399 | .0462 | .0443 | .0427 | .0415 |
| .380 | .28 | .982 | .240 | 7.92 | .0350 | .0331 | .0317 | .0305 | .0366 | .0347 | .0333 | .0321 |

RESISTANCE DATA SERIES 65-B MODFL 5238

LP/HPX = 9.39

HEADRISE ANGLE = 30.4 DEG

FNO = 1.25

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 47.1 92.0 200.0 20.0 47.1 92.0 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.43 | .969 | .567 | 6.87 | .0353 | .0829 | .0810 | .0795 | .0475 | .0451 | .0431 | .0416 |
| .340 | 2.11 | .945 | .681 | 7.10 | .0596 | .0671 | .0651 | .0636 | .0718 | .0693 | .0674 | .0658 |
| .380 | .91 | .992 | .861 | 7.27 | .0551 | .0526 | .0506 | .0490 | .0574 | .0549 | .0529 | .0513 |
| .420 | -.18 | 1.000 | 1.000 | 7.47 | .0400 | .0456 | .0436 | .0420 | .0504 | .0479 | .0459 | .0444 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .969 | .515 | 7.32 | .0407 | .0781 | .0761 | .0744 | .0429 | .0404 | .0383 | .0367 |
| .340 | 1.72 | .985 | .531 | 7.29 | .0596 | .0598 | .0578 | .0562 | .0647 | .0621 | .0601 | .0585 |
| .380 | .65 | .998 | .746 | 7.27 | .0500 | .0474 | .0453 | .0437 | .0524 | .0498 | .0477 | .0461 |
| .420 | -.26 | 1.000 | 1.000 | 8.89 | .0434 | .0405 | .0383 | .0364 | .0462 | .0433 | .0410 | .0392 |

LP/V(1/3) = 9.0 LP (FT) = 27.5 48.5 104.4 225.0 27.5 49.5 106.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.49 | .979 | .433 | 7.70 | .0712 | .0685 | .0664 | .0647 | .0736 | .0709 | .0688 | .0671 |
| .340 | 1.50 | .993 | .452 | 7.60 | .0574 | .0547 | .0526 | .0510 | .0598 | .0571 | .0550 | .0533 |
| .380 | .51 | .984 | .584 | 7.05 | .0463 | .0435 | .0414 | .0397 | .0488 | .0460 | .0439 | .0422 |
| .420 | -.25 | 1.000 | .844 | 9.05 | .0397 | .0367 | .0344 | .0325 | .0426 | .0396 | .0372 | .0353 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 119.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.13 | .978 | .377 | 8.06 | .0654 | .0626 | .0604 | .0586 | .0679 | .0651 | .0629 | .0611 |
| .340 | 1.25 | .979 | .375 | 7.91 | .0539 | .0512 | .0490 | .0473 | .0564 | .0536 | .0515 | .0497 |
| .380 | .44 | .992 | .368 | 7.90 | .0450 | .0422 | .0400 | .0383 | .0474 | .0447 | .0425 | .0408 |
| .420 | -.43 | 1.000 | .352 | 8.29 | .0371 | .0342 | .0320 | .0302 | .0397 | .0368 | .0346 | .0327 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.0 25.0 53.8 116.0 249.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.87 | .972 | .315 | 8.47 | .0618 | .0588 | .0565 | .0547 | .0645 | .0615 | .0592 | .0573 |
| .340 | 1.12 | .979 | .281 | 9.77 | .0468 | .0449 | .0426 | .0408 | .0504 | .0475 | .0452 | .0434 |
| .380 | .40 | .993 | .201 | 7.90 | .0441 | .0413 | .0391 | .0373 | .0465 | .0438 | .0415 | .0398 |
| .420 | -.49 | 1.000 | .072 | 7.30 | .0331 | .0304 | .0283 | .0266 | .0354 | .0327 | .0306 | .0289 |

RESISTANCE DATA SERIES 65-A MODEL 5273

LP/DPX = 9.39

DEADRISE ANGLE = 39.4 DEG

FNV = 1.50

WEIGHT = LIFT (1.0, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 45.1 92.0 200.0 21.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.54 | .959 | .571 | 6.83 | .0947 | .0913 | .0887 | .0866 | .0977 | .0944 | .0918 | .0897 |
| .340 | 2.73 | .993 | .763 | 7.31 | .0781 | .0745 | .0719 | .0697 | .0814 | .0779 | .0752 | .0730 |
| .380 | 1.24 | .999 | 1.000 | 7.84 | .0674 | .0637 | .0609 | .0586 | .0709 | .0673 | .0644 | .0621 |
| .420 | .23 | .997 | 1.000 | 7.62 | .0606 | .0570 | .0543 | .0520 | .0640 | .0605 | .0577 | .0555 |

LP/V(1/3) = 8.5 LP (FT) = 21.7 45.8 98.6 213.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.00 | .968 | .522 | 7.34 | .0859 | .0823 | .0795 | .0772 | .0892 | .0856 | .0828 | .0805 |
| .340 | 1.94 | .983 | .581 | 7.43 | .0728 | .0692 | .0664 | .0641 | .0761 | .0726 | .0697 | .0675 |
| .380 | 1.02 | .992 | .721 | 7.62 | .0636 | .0600 | .0572 | .0549 | .0670 | .0634 | .0606 | .0583 |
| .420 | 0.00 | .995 | 1.000 | 8.18 | .0550 | .0513 | .0483 | .0460 | .0587 | .0550 | .0520 | .0496 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.59 | .976 | .448 | 7.75 | .0795 | .0757 | .0728 | .0704 | .0820 | .0782 | .0762 | .0739 |
| .340 | 1.66 | .982 | .453 | 7.68 | .0681 | .0644 | .0615 | .0592 | .0715 | .0678 | .0650 | .0626 |
| .380 | .85 | .978 | 0.37 | 7.65 | .0595 | .0558 | .0529 | .0506 | .0629 | .0593 | .0564 | .0541 |
| .420 | -.05 | .994 | .740 | 6.37 | .0505 | .0466 | .0435 | .0410 | .0542 | .0503 | .0473 | .0448 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 217.4 21.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.27 | .975 | .385 | 8.12 | .0751 | .0712 | .0681 | .0656 | .0788 | .0749 | .0718 | .0693 |
| .340 | 1.50 | .979 | .376 | 7.93 | .0657 | .0619 | .0588 | .0564 | .0693 | .0654 | .0624 | .0600 |
| .380 | .73 | .979 | 0.37 | 7.83 | .0573 | .0535 | .0505 | .0481 | .0600 | .0570 | .0540 | .0516 |
| .420 | -.12 | .996 | .379 | 8.09 | .0487 | .0448 | .0417 | .0393 | .0523 | .0484 | .0454 | .0429 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.00 | .970 | .327 | 8.56 | .0709 | .0668 | .0635 | .0609 | .0748 | .0706 | .0674 | .0648 |
| .340 | 1.29 | .979 | .292 | 8.36 | .0619 | .0579 | .0547 | .0521 | .0657 | .0616 | .0584 | .0559 |
| .380 | .62 | .992 | .225 | 8.02 | .0546 | .0507 | .0476 | .0451 | .0582 | .0543 | .0512 | .0487 |
| .420 | -.20 | .994 | .278 | 7.50 | .0479 | .0433 | .0403 | .0379 | .0504 | .0466 | .0437 | .0413 |

RESISTANCE DATA SERIES 65-9 MODEL 523.4

LP/VP = 9.39

DEADRISE ANGLE = 30.4 DEG

FNQ = 1.75

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.0 LP (FT) = 20.0 47.1 92.8 200.0 20.0 47.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.61 | .948 | .588 | 11.79 | .1027 | .0983 | .0948 | .0921 | .1068 | .1025 | .0990 | .0962 |
| .340 | 2.79 | .991 | .749 | 11.22 | .0867 | .0821 | .0785 | .0757 | .0911 | .0865 | .0830 | .0801 |
| .380 | 1.32 | .999 | .976 | 7.79 | .0773 | .0725 | .0688 | .0657 | .0921 | .0773 | .0735 | .0705 |
| .420 | .37 | .995 | 1.000 | 7.71 | .0708 | .0661 | .0624 | .0595 | .0755 | .0709 | .0672 | .0642 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 91.6 212.5 21.2 45.3 91.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.09 | .959 | .521 | 7.26 | .0943 | .0896 | .0859 | .0830 | .0987 | .0940 | .0904 | .0874 |
| .340 | 2.02 | .991 | .578 | 7.41 | .0825 | .0779 | .0742 | .0712 | .0871 | .0824 | .0787 | .0757 |
| .380 | 1.10 | .979 | .712 | 7.60 | .0749 | .0701 | .0664 | .0634 | .0795 | .0748 | .0711 | .0681 |
| .421 | .25 | .989 | .940 | 7.98 | .0684 | .0636 | .0598 | .0567 | .0733 | .0685 | .0646 | .0616 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 49.5 104.4 225.0 22.5 49.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.65 | .970 | .447 | 7.74 | .0856 | .0806 | .0767 | .0736 | .0903 | .0854 | .0815 | .0783 |
| .340 | 1.74 | .978 | .459 | 7.59 | .0777 | .0728 | .0690 | .0660 | .0823 | .0775 | .0737 | .0706 |
| .380 | .95 | .975 | .510 | 7.61 | .0719 | .0671 | .0633 | .0602 | .0765 | .0717 | .0679 | .0649 |
| .420 | .15 | .988 | .624 | 8.04 | .0654 | .0604 | .0564 | .0532 | .0703 | .0653 | .0613 | .0582 |

LP/V(1/3) = 9.5 LP (FT) = 73.7 51.2 119.2 237.4 73.7 51.2 119.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.29 | .967 | .398 | 8.13 | .0811 | .0760 | .0719 | .0686 | .0861 | .0809 | .0768 | .0736 |
| .340 | 1.51 | .975 | .378 | 7.93 | .0756 | .0706 | .0666 | .0634 | .0805 | .0754 | .0714 | .0682 |
| .380 | .84 | .976 | .339 | 7.80 | .0710 | .0660 | .0620 | .0589 | .0758 | .0707 | .0668 | .0636 |
| .420 | 0.10 | .992 | .246 | 7.94 | .0628 | .0576 | .0535 | .0503 | .0676 | .0625 | .0584 | .0551 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.03 | .952 | .341 | 8.57 | .0791 | .0726 | .0683 | .0649 | .0833 | .0779 | .0736 | .0701 |
| .340 | 1.37 | .975 | .290 | 8.38 | .0737 | .0684 | .0641 | .0607 | .0789 | .0735 | .0693 | .0659 |
| .380 | .75 | .989 | .195 | 9.10 | .0691 | .0638 | .0597 | .0563 | .0741 | .0688 | .0646 | .0613 |
| .420 | -0.02 | .990 | 0.000 | 7.69 | .0606 | .0554 | .0513 | .0480 | .0653 | .0601 | .0560 | .0528 |

RESISTANCE DATA SERIES 65-B MOOFL 5230

LP/PPX = 9.39

DEADRISE ANGLE = 311.4 DEG

FNV = 2.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.1 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.65 | .938 | .596 | 6.80 | .1124 | .1068 | .1025 | .0989 | .1179 | .1123 | .1079 | .1044 |
| .340 | 2.42 | .981 | .754 | 7.27 | .0960 | .0902 | .0856 | .0820 | .1019 | .0961 | .0915 | .0880 |
| .380 | 1.39 | .989 | .994 | 7.77 | .0874 | .0814 | .0766 | .0728 | .0937 | .0876 | .0828 | .0790 |
| .420 | .45 | .994 | 1.000 | 7.66 | .0815 | .0756 | .0710 | .0672 | .0877 | .0818 | .0771 | .0733 |

LP/V(1/3) = 4.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.1 | .952 | .553 | 7.27 | .1056 | .0997 | .0950 | .0913 | .1114 | .1055 | .1008 | .0971 |
| .340 | 2.03 | .981 | .617 | 7.46 | .0934 | .0874 | .0827 | .0789 | .0993 | .0934 | .0886 | .0848 |
| .380 | 1.15 | .981 | .725 | 7.63 | .0854 | .0793 | .0746 | .0707 | .0915 | .0854 | .0807 | .0769 |
| .420 | .32 | .987 | .924 | 7.94 | .0785 | .0724 | .0675 | .0636 | .0849 | .0788 | .0739 | .0700 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 44.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.67 | .962 | .470 | 7.73 | .0993 | .0931 | .0881 | .0841 | .1055 | .0992 | .0943 | .0903 |
| .340 | 1.74 | .977 | .481 | 7.64 | .0890 | .0829 | .0780 | .0741 | .0951 | .0889 | .0841 | .0802 |
| .380 | .96 | .976 | .525 | 7.62 | .0817 | .0756 | .0707 | .0669 | .0878 | .0817 | .0768 | .0729 |
| .420 | .22 | .985 | .615 | 7.99 | .0752 | .0689 | .0639 | .0599 | .0816 | .0753 | .0703 | .0662 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 237.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.37 | .960 | .495 | 8.13 | .0942 | .0876 | .0824 | .0782 | .1007 | .0941 | .0889 | .0847 |
| .340 | 1.50 | .973 | .391 | 7.93 | .0858 | .0793 | .0743 | .0702 | .0921 | .0857 | .0806 | .0765 |
| .380 | .83 | .976 | .370 | 7.40 | .0801 | .0737 | .0687 | .0646 | .0863 | .0799 | .0749 | .0709 |
| .420 | .16 | .986 | .256 | 7.47 | .0751 | .0686 | .0635 | .0593 | .0814 | .0749 | .0697 | .0656 |

LP/V(1/3) = 10.0 LP (FT) = 75.0 53.4 116.0 249.9 25.4 53.4 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.03 | .955 | .346 | 4.57 | .0888 | .0819 | .0764 | .0720 | .0957 | .0887 | .0833 | .0789 |
| .340 | 1.34 | .973 | .291 | 8.37 | .0830 | .0762 | .0708 | .0665 | .0897 | .0829 | .0775 | .0732 |
| .380 | .75 | .980 | .183 | 8.10 | .0787 | .0720 | .0667 | .0624 | .0852 | .0784 | .0731 | .0689 |
| .420 | .10 | .988 | 0.000 | 7.76 | .0741 | .0674 | .0621 | .0579 | .0803 | .0736 | .0683 | .0641 |

RESISTANCE DATA SERIES 65-e MODEL 5238

LP/ARX = 9.39 DEARRISE ANGLE = 39.4 DEG ENV = 2.50

 WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LF (FT) = 20.0 47.1 92.8 200.0 20.0 47.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.61 | .920 | .598 | 6.88 | .1722 | .1238 | .1172 | .1118 | .1408 | .1324 | .1258 | .1204 | |
| .340 | 2.65 | .981 | .782 | 7.41 | .1197 | .1178 | .1138 | .0981 | .1200 | .1202 | .1131 | .1075 | |
| .380 | 1.50 | .944 | .985 | 7.87 | .1134 | .1043 | .0971 | .0912 | .1233 | .1141 | .1069 | .1011 | |
| .420 | .40 | .976 | 1.000 | 7.04 | .1067 | .0977 | .0905 | .0848 | .1155 | .1075 | .1003 | .0946 | |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.9 78.6 212.5 21.2 45.9 78.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 3.15 | .943 | .57 | 7.41 | .1262 | .1172 | .1101 | .1044 | .1354 | .1265 | .1194 | .1137 | |
| .340 | 2.09 | .992 | .724 | 7.92 | .1145 | .1052 | .0978 | .0918 | .1244 | .1151 | .1077 | .1017 | |
| .380 | 1.17 | .979 | .883 | 8.19 | .1079 | .0984 | .0909 | .0848 | .1181 | .1086 | .1011 | .0950 | |
| .420 | .35 | .980 | 1.000 | 8.28 | .1062 | .0967 | .0892 | .0831 | .1165 | .1071 | .0996 | .0935 | |
| .460 | -.47 | 1.000 | 1.000 | 8.19 | .1098 | .1005 | .0932 | .0872 | .1200 | .1108 | .1034 | .0975 | |

LP/V(1/3) = 4.0 LP (FT) = 27.5 48.5 104.4 225.1 27.5 48.5 104.4 225.1

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.81 | .946 | .528 | 7.92 | .1209 | .1114 | .1038 | .0978 | .1308 | .1213 | .1137 | .1077 | |
| .340 | 1.88 | .975 | .591 | 8.05 | .1135 | .1010 | .0934 | .0873 | .1206 | .1110 | .1034 | .0973 | |
| .380 | .97 | .978 | .632 | 8.06 | .1058 | .0963 | .0887 | .0827 | .1159 | .1064 | .0988 | .0927 | |
| .420 | .27 | .984 | .651 | 8.17 | .1057 | .0961 | .0885 | .0823 | .1159 | .1063 | .0987 | .0925 | |
| .460 | -.36 | 1.000 | .651 | 8.47 | .1193 | .0994 | .0916 | .0853 | .1108 | .1008 | .0921 | .0858 | |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 113.2 237.4 23.7 51.2 113.2 237.4

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.45 | .970 | .475 | 8.32 | .1188 | .1088 | .1009 | .0945 | .1292 | .1197 | .1113 | .1049 | |
| .340 | 1.51 | .972 | .465 | 8.22 | .1115 | .1011 | .0939 | .0877 | .1218 | .1120 | .1042 | .0980 | |
| .380 | .83 | .981 | .402 | 8.08 | .1083 | .0986 | .0908 | .0846 | .1184 | .1086 | .1009 | .0947 | |
| .420 | .20 | .988 | .284 | 8.01 | .1067 | .0969 | .0891 | .0829 | .1167 | .1069 | .0991 | .0929 | |
| .460 | -.39 | 1.000 | .104 | 8.00 | .1066 | .0964 | .0883 | .0818 | .1167 | .1065 | .0984 | .0919 | |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|-------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .300 | 2.13 | .937 | .400 | 8.68 | .1168 | .1064 | .0981 | .0915 | .1277 | .1172 | .1093 | .1024 | |
| .340 | 1.35 | .974 | .330 | 8.50 | .1114 | .1011 | .0930 | .0865 | .1220 | .1118 | .1036 | .0971 | |
| .380 | .72 | .987 | .295 | 8.21 | .1079 | .0978 | .0899 | .0835 | .1182 | .1081 | .1001 | .0937 | |
| .420 | .15 | .990 | .100 | 7.89 | .1054 | .0953 | .0873 | .0810 | .1152 | .1051 | .0972 | .0908 | |
| .460 | -.45 | .987 | 0.000 | 7.54 | .1027 | .0927 | .0841 | .0775 | .1121 | .1017 | .0935 | .0870 | |

RESISTANCE DATA SERIES 65-B MODEL 5278

LP/ROX = 9.37 DEADRISE ANGLE = 79.4 DEG FNO = 3.00

WEIGHT = LTFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 4.85 | .809 | .546 | 6.64 | .1914 | .1599 | .1609 | .1534 | .1934 | .1518 | .1727 | .1654 |
| .340 | 3.15 | 1.000 | .666 | 7.44 | .1665 | .1542 | .1444 | .1365 | .1900 | .1676 | .1578 | .1499 |
| .380 | 2.07 | 1.000 | .968 | 7.81 | .1579 | .1454 | .1354 | .1273 | .1729 | .1504 | .1494 | .1414 |
| .420 | 1.26 | 1.000 | 1.000 | 8.54 | .1513 | .1478 | .1370 | .1283 | .1766 | .1631 | .1524 | .1437 |
| .460 | .71 | 1.000 | 1.000 | 9.48 | .1727 | .1577 | .1457 | .1360 | .1807 | .1747 | .1628 | .1531 |
| .500 | .36 | 1.000 | .850 | 10.35 | .1851 | .1686 | .1554 | .1448 | .2038 | .1872 | .1740 | .1634 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.48 | .923 | .542 | 7.58 | .1614 | .1486 | .1384 | .1303 | .1751 | .1622 | .1521 | .1439 |
| .340 | 2.42 | 1.000 | .790 | 8.26 | .1554 | .1421 | .1315 | .1229 | .1703 | .1569 | .1463 | .1377 |
| .380 | 1.57 | 1.000 | 1.000 | 9.05 | .1522 | .1380 | .1266 | .1175 | .1685 | .1543 | .1429 | .1337 |
| .420 | .94 | 1.000 | 1.000 | 9.61 | .1531 | .1381 | .1261 | .1164 | .1704 | .1554 | .1434 | .1337 |
| .460 | .38 | 1.000 | 1.000 | 10.03 | .1573 | .1415 | .1289 | .1187 | .1753 | .1595 | .1469 | .1367 |
| .500 | -.28 | 1.000 | .592 | 10.35 | .1673 | .1504 | .1369 | .1260 | .1859 | .1690 | .1555 | .1446 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.68 | .937 | .593 | 8.13 | .1467 | .1332 | .1226 | .1139 | .1617 | .1479 | .1372 | .1286 |
| .340 | 1.75 | .970 | .790 | 8.82 | .1410 | .1263 | .1155 | .1064 | .1568 | .1427 | .1314 | .1223 |
| .380 | 1.09 | .978 | .855 | 9.14 | .1382 | .1237 | .1121 | .1027 | .1547 | .1401 | .1285 | .1191 |
| .420 | .65 | .994 | .797 | 9.19 | .1374 | .1227 | .1117 | .1015 | .1540 | .1392 | .1275 | .1180 |
| .460 | -.44 | 1.000 | .610 | 8.57 | .1409 | .1265 | .1151 | .1059 | .1567 | .1419 | .1305 | .1214 |

LP/V(1/3) = 9.5 LP (FT) = 21.7 51.7 110.2 237.4 21.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.28 | .927 | .552 | 8.64 | .1463 | .1321 | .1208 | .1116 | .1619 | .1476 | .1363 | .1272 |
| .340 | 1.50 | .971 | .582 | 8.07 | .1417 | .1273 | .1158 | .1065 | .1577 | .1432 | .1317 | .1224 |
| .380 | 1.01 | .985 | .542 | 8.88 | .1401 | .1256 | .1141 | .1048 | .1561 | .1416 | .1300 | .1207 |
| .420 | .42 | .992 | .606 | 8.71 | .1403 | .1257 | .1142 | .1049 | .1559 | .1414 | .1299 | .1206 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.8 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.98 | .930 | .437 | 8.92 | .1448 | .1300 | .1183 | .1088 | .1609 | .1461 | .1344 | .1249 |
| .340 | 1.37 | .975 | .378 | 8.88 | .1419 | .1271 | .1154 | .1060 | .1578 | .1431 | .1314 | .1219 |
| .380 | .93 | .994 | .297 | 8.72 | .1408 | .1262 | .1145 | .1052 | .1565 | .1418 | .1302 | .1209 |
| .420 | .74 | .999 | .096 | 8.35 | .1412 | .1267 | .1153 | .1060 | .1562 | .1417 | .1303 | .1210 |

RESISTANCE DATA SERIES 65-B MODEL 523A

LP/DPX = 9.39 DEADRISE ANGLE = 30.4 DEG FNV = 3.50

 WEIGHT = LIFT (LA, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.4 98.6 212.5 21.2 45.4 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 1.05 | .750 | .696 | 6.89 | .1310 | .1156 | .1034 | .0935 | .1479 | .1325 | .1203 | .1104 |
| .340 | .55 | .796 | .665 | 7.64 | .1431 | .1256 | .1117 | .1005 | .1618 | .1443 | .1304 | .1192 |
| .380 | .24 | .842 | .603 | 8.24 | .1545 | .1348 | .1193 | .1068 | .1747 | .1550 | .1394 | .1269 |
| .420 | -.23 | .839 | 0.000 | 9.32 | .1753 | .1499 | .1300 | .1142 | .1981 | .1727 | .1529 | .1379 |

LP/V(1/3) = 9.0 LP (FT) = 22.5 48.5 104.4 225.0 22.5 48.5 104.4 225.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 3.22 | .875 | 0.000 | 7.70 | .1799 | .1625 | .1489 | .1378 | .1986 | .1814 | .1677 | .1567 |
| .340 | 2.05 | .965 | .783 | 6.72 | .1781 | .1596 | .1448 | .1329 | .1994 | .1809 | .1662 | .1543 |
| .380 | 1.29 | .997 | .837 | 9.22 | .1792 | .1598 | .1443 | .1317 | .2018 | .1827 | .1668 | .1543 |
| .420 | .64 | .988 | .598 | 9.41 | .1820 | .1616 | .1453 | .1322 | .2051 | .1847 | .1684 | .1553 |
| .460 | -.1A | .994 | 0.000 | 9.29 | .1865 | .1630 | .1443 | .1294 | .2093 | .1857 | .1671 | .1522 |

LP/V(1/3) = 9.5 LP (FT) = 23.7 51.2 110.2 257.4 23.7 51.2 110.2 237.4

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 2.28 | .878 | .495 | 8.48 | .1824 | .1637 | .1488 | .1368 | .2032 | .1845 | .1696 | .1576 |
| .340 | 1.83 | .963 | .643 | 9.17 | .1852 | .1656 | .1500 | .1374 | .2077 | .1881 | .1725 | .1598 |
| .380 | 1.19 | .994 | .617 | 9.35 | .1880 | .1681 | .1522 | .1393 | .2109 | .1910 | .1759 | .1622 |
| .420 | .62 | 1.000 | .442 | 9.73 | .1912 | .1710 | .1550 | .1421 | .2138 | .1936 | .1776 | .1647 |
| .460 | -.13 | .995 | 0.000 | 8.58 | .1956 | .1749 | .1586 | .1455 | .2166 | .1959 | .1796 | .1665 |

LP/V(1/3) = 10.0 LP (FT) = 25.0 53.8 116.0 249.9 25.0 53.1 116.0 249.9

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | 7.76 | .887 | .465 | 9.04 | .1809 | .1611 | .1453 | .1326 | .2030 | .1832 | .1675 | .1548 |
| .340 | 1.50 | .965 | .457 | 9.26 | .1846 | .1645 | .1485 | .1356 | .2072 | .1872 | .1712 | .1583 |
| .380 | 1.00 | .994 | .387 | 9.13 | .1873 | .1674 | .1515 | .1387 | .2096 | .1897 | .1739 | .1610 |
| .420 | 0.0 | 1.000 | .219 | 8.68 | .1905 | .1711 | .1557 | .1432 | .2118 | .1923 | .1769 | .1645 |
| .460 | -.32 | .962 | 0.000 | 7.32 | .1953 | .1771 | .1627 | .1511 | .2132 | .1950 | .1806 | .1690 |

RESISTANCE DATA SERIES 65-8 MODEL 5238

LP/RPX = 9.39 DEADRISE ANGLE = 30.4 DEG FNV = 4.00

 WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 9.5 LP (FT) = 23.7 59.2 110.2 237.4 23.7 51.2 110.2 231.4

| LCG LP | TRIM (NEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .340 | 1.20 | .796 | .112 | 7.86 | .1906 | .1680 | .1501 | .1357 | .2142 | .1809 | .1640 | .1504 |
| .380 | .02 | .792 | .005 | 7.39 | .1936 | .1704 | .1521 | .1373 | .2172 | .1941 | .1757 | .1610 |

 LP/V(1/3) = 10.0 LP (FT) = 25.1 53.8 116.0 249.4 25.0 53.8 116.0 249.9

| LCG LP | TRIM (NEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .300 | | .791 | .405 | 8.68 | .2269 | .2013 | .1816 | .1657 | .2538 | .2290 | .2093 | .1934 |
| .340 | 2.15 | .944 | .520 | 9.84 | .2385 | .2115 | .1900 | .1726 | .2699 | .2430 | .2215 | .2041 |
| .380 | 1.23 | 1.000 | .505 | 10.20 | .2501 | .2224 | .2003 | .1824 | .2827 | .2550 | .2329 | .2150 |
| .420 | .51 | 1.000 | .298 | 10.06 | .2621 | .2341 | .2117 | .1937 | .2943 | .2662 | .2439 | .2258 |
| .460 | .06 | 1.000 | .044 | 4.72 | .2713 | .2428 | .2201 | .2019 | .3025 | .2740 | .2514 | .2331 |
| .500 | -.05 | 1.000 | 0.000 | 9.68 | .2736 | .2449 | .2221 | .2037 | .3045 | .2758 | .2530 | .2347 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00

DEADRISE ANGLE = 12.5 DEG

FNV = 1.00

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 3.5 LF (FT) = 3.7 18.8 40.6 87.5 6.7 18.8 40.6 82.5

| LCG LP | TRIM (DEG) | LK LF | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 10.36 | .900 | .809 | 4.55 | .1642 | .1628 | .1618 | .1610 | .1651 | .1637 | .1627 | .1619 |
| .395 | 5.17 | .976 | .855 | 5.65 | .1364 | .1349 | .1337 | .1327 | .1376 | .1360 | .1348 | .1338 |
| .415 | 2.74 | 1.000 | .933 | 6.02 | .1300 | .1283 | .1271 | .1261 | .1312 | .1295 | .1283 | .1273 |
| .435 | .42 | 1.000 | 1.000 | 6.27 | .1284 | .1268 | .1255 | .1245 | .1297 | .1280 | .1267 | .1257 |

 LP/V(1/3) = 4.0 LF (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LF | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 0.82 | .914 | .823 | 6.71 | .1291 | .1274 | .1260 | .1250 | .1303 | .1286 | .1273 | .1262 |
| .395 | 2.37 | .958 | .817 | 6.96 | .1128 | .1110 | .1095 | .1084 | .1142 | .1124 | .1109 | .1098 |
| .415 | .90 | .977 | .829 | 7.03 | .1035 | .1016 | .1001 | .0990 | .1049 | .1030 | .1015 | .1004 |
| .435 | -1.06 | .993 | .842 | 7.05 | .0988 | .0969 | .0954 | .0943 | .1002 | .0983 | .0969 | .0957 |
| .475 | -4.10 | 1.000 | 1.000 | 7.31 | .1198 | .1179 | .1164 | .1152 | .1212 | .1193 | .1178 | .1167 |

 LP/V(1/3) = 4.5 LP (FT) = 11.2 21.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LF | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | +4.53 | .921 | .829 | 7.29 | .1052 | .1032 | .1017 | .1004 | .1067 | .1047 | .1031 | .1019 |
| .395 | 1.60 | .948 | .807 | 7.72 | .0952 | .0931 | .0915 | .0902 | .0968 | .0947 | .0931 | .0918 |
| .415 | .18 | .960 | .810 | 5.04 | .0950 | .0928 | .0912 | .0899 | .0966 | .0945 | .0928 | .0915 |
| .435 | -1.24 | .973 | .754 | 9.33 | .0967 | .0945 | .0930 | .0914 | .0984 | .0962 | .0945 | .0931 |
| .475 | -4.31 | .998 | .840 | 8.72 | .1021 | .0999 | .0981 | .0967 | .1039 | .1016 | .0999 | .0985 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/HPX = 2.00 DEADWISE ANGLE = 12.5 DEG FNØ = 1.25

 WEIGHT = LIFT (Lb, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 3.5 LP (FT) = 6.7 10.0 40.6 87.5 a.7 18.8 40.6 87.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 10.66 | .722 | .508 | 3.93 | .2889 | .2871 | .2853 | .2847 | .2901 | .2884 | .2870 | .2860 |
| .395 | 12.12 | .855 | .616 | 5.08 | .2475 | .2453 | .2436 | .2422 | .2491 | .2469 | .2452 | .2438 |
| .415 | 9.79 | .908 | .800 | 5.16 | .2350 | .2327 | .2310 | .2296 | .2367 | .2344 | .2326 | .2313 |
| .435 | 7.41 | .952 | .809 | 5.44 | .2280 | .2257 | .2240 | .2226 | .2297 | .2274 | .2257 | .2243 |

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|--------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 11.25 | .763 | .549 | 5.1b | .1960 | .1933 | .1920 | .1907 | .1976 | .1954 | .1937 | .1923 |
| .395 | 7.83 | .877 | .640 | 5.72 | .1740 | .17167 | .1698 | .1684 | .1758 | .1734 | .1716 | .1701 |
| .415 | 6.35 | .915 | .700 | 6.24 | .1767 | .1741 | .1721 | .1706 | .1786 | .1761 | .1741 | .1725 |
| .435 | 4.69 | .945 | .791 | 6.70 | .1877 | .1859 | .1829 | .1812 | .1898 | .1871 | .1850 | .1833 |
| .475 | 1.71 | 1.000 | 1.000 | 7.31 | .2329 | .2300 | .2278 | .2261 | .2352 | .2323 | .2301 | .2284 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 7.67 | .812 | .513 | 6.56 | .1696 | .1629 | .1608 | .1591 | .1677 | .1650 | .1628 | .1612 |
| .395 | 5.20 | .913 | .536 | 7.40 | .1357 | .1327 | .1304 | .1286 | .1380 | .1350 | .1327 | .1309 |
| .415 | 4.00 | .934 | .604 | 7.86 | .1458 | .1427 | .1402 | .1383 | .1482 | .1451 | .1427 | .1407 |
| .435 | 2.73 | .947 | .734 | 8.26 | .1667 | .1635 | .1609 | .1589 | .1693 | .1660 | .1635 | .1615 |
| .475 | -1.39 | .976 | .a22 | 8.59 | .2235 | .2202 | .2176 | .2155 | .2262 | .2228 | .2202 | .2182 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNW = 1.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 3.5 LP (FT) = 8.7 18.8 40.6 87.5 8.7 18.8 40.6 87.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 16.52 | .696 | .502 | 3.40 | .3223 | .3202 | .3186 | .3173 | .3239 | .3217 | .3201 | .3188 |
| .395 | 15.97 | .751 | .573 | 4.40 | .2758 | .2731 | .2710 | .2694 | .2778 | .2751 | .2730 | .2714 |
| .415 | 13.78 | .797 | .611 | 4.53 | .2500 | .2472 | .2451 | .2434 | .2521 | .2493 | .2472 | .2455 |
| .435 | 10.30 | .856 | .649 | 4.56 | .2225 | .2198 | .2177 | .2160 | .2245 | .2218 | .2197 | .2181 |

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 12.08 | .603 | .469 | 3.83 | .2371 | .2348 | .2329 | .2315 | .2389 | .2365 | .2346 | .2332 |
| .395 | 3.50 | .783 | .542 | 4.52 | .1908 | .1882 | .1861 | .1845 | .1929 | .1902 | .1881 | .1865 |
| .415 | 7.98 | .856 | .577 | 5.30 | .1744 | .1713 | .1689 | .1670 | .1768 | .1737 | .1713 | .1694 |
| .435 | 6.27 | .910 | .623 | 6.07 | .1720 | .1685 | .1658 | .1637 | .1747 | .1713 | .1686 | .1664 |
| .475 | 3.60 | .951 | .770 | 6.71 | .2379 | .2341 | .2312 | .2289 | .2409 | .2372 | .2342 | .2319 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 6.56 | .677 | .459 | 5.25 | .1769 | .1738 | .1714 | .1695 | .1793 | .1762 | .1737 | .1718 |
| .395 | 6.01 | .868 | .535 | 6.63 | .1427 | .1390 | .1360 | .1337 | .1457 | .1420 | .1390 | .1367 |
| .415 | 4.30 | .905 | .563 | 7.12 | .1420 | .1380 | .1349 | .1324 | .1452 | .1412 | .1381 | .1356 |
| .435 | 3.88 | .923 | .596 | 7.52 | .1552 | .1510 | .1477 | .1451 | .1586 | .1544 | .1511 | .1485 |
| .475 | 2.07 | .945 | .723 | 8.16 | .2325 | .2280 | .2245 | .2218 | .2361 | .2317 | .2282 | .2254 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/8PX = 2.90 DEADRISE ANGLE = 12.5 DEG FNØ = 1.75

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 3.5 LP (FT) = 8.7 18.8 40.6 87.5 8.7 18.8 40.6 87.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 15.62 | .663 | .462 | 3.15 | .2709 | .2683 | .2663 | .2647 | .2728 | .2702 | .2682 | .2666 |
| .395 | 12.28 | .653 | .479 | 3.93 | .2429 | .2396 | .2371 | .2351 | .2453 | .2420 | .2395 | .2375 |
| .415 | 10.83 | .689 | .522 | 4.01 | .2283 | .2250 | .2225 | .2205 | .2308 | .2275 | .2249 | .2229 |
| .435 | 10.02 | .752 | .589 | 3.89 | .2134 | .2103 | .2079 | .2060 | .2158 | .2127 | .2102 | .2083 |

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 11.70 | .581 | .415 | 3.48 | .2190 | .2161 | .2139 | .2121 | .2211 | .2102 | .2160 | .2142 |
| .395 | 8.84 | .697 | .485 | 3.60 | .1821 | .1799 | .1781 | .1781 | .1872 | .1843 | .1821 | .1803 |
| .415 | 7.83 | .781 | .514 | 4.46 | .1696 | .1661 | .1634 | .1613 | .1723 | .1688 | .1661 | .1640 |
| .435 | 6.93 | .858 | .543 | 5.39 | .1615 | .1573 | .1541 | .1516 | .1648 | .1606 | .1574 | .1549 |
| .475 | 4.97 | .922 | .632 | 6.04 | .1851 | .1806 | .1771 | .1743 | .1888 | .1843 | .1800 | .1780 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 7.98 | .641 | .427 | 4.84 | .1483 | .1445 | .1415 | .1391 | .1513 | .1474 | .1445 | .1421 |
| .395 | 6.40 | .789 | .466 | 5.61 | .1413 | .1370 | .1337 | .1310 | .1447 | .1404 | .1371 | .1345 |
| .415 | 5.51 | .850 | .499 | 6.33 | .1391 | .1343 | .1306 | .1277 | .1430 | .1382 | .1345 | .1315 |
| .435 | 4.59 | .897 | .537 | 7.02 | .1457 | .1405 | .1364 | .1332 | .1480 | .1448 | .1407 | .1375 |
| .475 | 2.85 | .928 | .620 | 7.62 | .2093 | .2037 | .1994 | .1959 | .2140 | .2084 | .2040 | .2006 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/DPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNV = 2.00

 WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 3.5 LP (FT) = 8.7 18.8 40.6 87.5 8.7 18.8 40.6 87.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 15.19 | .548 | .406 | 2.54 | .2264 | .2236 | .2215 | .2198 | .2284 | .2257 | .2235 | .2218 |
| .395 | 10.46 | .599 | .465 | 3.74 | .2106 | .2066 | .2035 | .2011 | .2136 | .2096 | .2065 | .2041 |
| .415 | 9.38 | .662 | .437 | 3.86 | .2031 | .1991 | .1960 | .1935 | .2062 | .2022 | .1991 | .1966 |
| .435 | 9.16 | .752 | .530 | 3.67 | .1959 | .1922 | .1891 | .1869 | .1988 | .1951 | .1922 | .1899 |

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 9.88 | .575 | .355 | 3.24 | .1922 | .1887 | .1861 | .1840 | .1948 | .1913 | .1886 | .1865 |
| .395 | 7.97 | .652 | .443 | 3.05 | .1709 | .1677 | .1653 | .1634 | .1733 | .1702 | .1677 | .1658 |
| .415 | 7.21 | .730 | .468 | 3.95 | .1599 | .1560 | .1529 | .1504 | .1631 | .1591 | .1560 | .1536 |
| .435 | 6.54 | .809 | .493 | 4.95 | .1530 | .1481 | .1442 | .1412 | .1569 | .1520 | .1482 | .1452 |
| .475 | 5.39 | .895 | .564 | 5.64 | .1629 | .1574 | .1532 | .1498 | .1674 | .1619 | .1577 | .1543 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 6.99 | .608 | .356 | 4.23 | .1327 | .1284 | .1250 | .1223 | .1361 | .1318 | .1284 | .1257 |
| .395 | 5.98 | .737 | .411 | 4.96 | .1361 | .1312 | .1274 | .1244 | .1401 | .1352 | .1314 | .1283 |
| .415 | 5.36 | .811 | .448 | 5.73 | .1321 | .1265 | .1221 | .1187 | .1367 | .1311 | .1268 | .1233 |
| .435 | 1.70 | .875 | .486 | 6.60 | .1336 | .1273 | .1224 | .1185 | .1389 | .1326 | .1277 | .1238 |
| .475 | 3.3% | .918 | .542 | 7.18 | .1807 | .1740 | .1687 | .1645 | .1855 | .1797 | .1744 | .1703 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNR = 2.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/Q(1/3) = 3.5 LP (FT) = 8.7 18.8 40.6 87.5 8.7 18.8 40.6 87.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 7.86 | .659 | .392 | 3.68 | .1676 | .1617 | .1572 | .1536 | .1722 | .1663 | .1618 | .1582 |
| .415 | 7.44 | .692 | .419 | 3.48 | .1652 | .1598 | .1555 | .1522 | .1696 | .1641 | .1599 | .1565 |
| .435 | 7.02 | .724 | .446 | 3.29 | .1629 | .1578 | .1538 | .1507 | .1670 | .1619 | .1579 | .1548 |

LP/Q(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 6.89 | .571 | .317 | 3.01 | .1623 | .1575 | .1537 | .1508 | .1661 | .1612 | .1575 | .1545 |
| .395 | 6.05 | .675 | .364 | 2.70 | .1492 | .1451 | .1418 | .1392 | .1526 | .1484 | .1452 | .1426 |
| .415 | 5.66 | .725 | .338 | 3.50 | .1421 | .1368 | .1326 | .1293 | .1464 | .1411 | .1370 | .1337 |
| .435 | 5.31 | .774 | .416 | 4.42 | .1379 | .1312 | .1260 | .1219 | .1434 | .1367 | .1316 | .1275 |
| .475 | 4.74 | .860 | .490 | 5.15 | .1478 | .1403 | .1344 | .1297 | .1542 | .1467 | .1408 | .1362 |

LP/Q(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .355 | 5.37 | .603 | .295 | 3.84 | .1117 | .1057 | .1011 | .0974 | .1165 | .1105 | .1059 | .1022 |
| .395 | 4.80 | .718 | .335 | 4.40 | .1302 | .1236 | .1185 | .1144 | .1357 | .1291 | .1240 | .1199 |
| .415 | 4.47 | .781 | .362 | 5.09 | .1267 | .1192 | .1134 | .1087 | .1331 | .1256 | .1197 | .1151 |
| .435 | 4.13 | .836 | .399 | 5.79 | .1253 | .1169 | .1103 | .1050 | .1325 | .1241 | .1175 | .1123 |
| .475 | 1.55 | .889 | .445 | 6.43 | .1595 | .1504 | .1432 | .1375 | .1676 | .1584 | .1512 | .1455 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00

DEADRISE ANGLE = 12.5 DEG

FN9 = 3.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 4.77 | .704 | .315 | 2.44 | .1459 | .1407 | .1366 | .1333 | .1503 | .1451 | .1410 | .1377 |
| .415 | 4.54 | .738 | .329 | 3.40 | .1399 | .1326 | .1278 | .1227 | .1460 | .1388 | .1331 | .1286 |
| .435 | 4.32 | .775 | .347 | 4.09 | .1385 | .1299 | .1232 | .1176 | .1458 | .1373 | .1305 | .1252 |
| .475 | 3.93 | .856 | .391 | 4.67 | .1497 | .1401 | .1326 | .1266 | .1581 | .1485 | .1410 | .1350 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 3.91 | .735 | .284 | 4.26 | .1302 | .1213 | .1160 | .1088 | .1379 | .1290 | .1220 | .1165 |
| .415 | 3.70 | .788 | .298 | 4.79 | .1295 | .1196 | .1119 | .1057 | .1381 | .1282 | .1205 | .1143 |
| .435 | 3.50 | .836 | .311 | 5.32 | .1302 | .1193 | .1108 | .1041 | .1397 | .1289 | .1204 | .1136 |
| .475 | 3.15 | .891 | .362 | 5.94 | .1621 | .1503 | .1410 | .1335 | .1728 | .1610 | .1516 | .1442 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FN₀ = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOS LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 3.93 | .715 | .271 | 2.29 | .1509 | .1364 | .1291 | .1234 | .1565 | .1500 | .1449 | .1408 |
| .415 | 3.69 | .761 | .234 | 3.30 | .1456 | .1364 | .1291 | .1234 | .1537 | .1445 | .1372 | .1314 |
| .435 | 3.51 | .801 | .301 | 4.00 | .1451 | .1340 | .1253 | .1183 | .1549 | .1438 | .1351 | .1281 |
| .475 | 1.33 | .865 | .347 | 4.50 | .1579 | .1457 | .1360 | .1284 | .1689 | .1567 | .1471 | .1394 |

LP/V(1/3) = 1.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOS LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 3.34 | .756 | .216 | 3.93 | .1477 | .1388 | .1282 | .1214 | .1573 | .1464 | .1378 | .1310 |
| .415 | 3.12 | .805 | .226 | 4.50 | .1520 | .1397 | .1300 | .1223 | .1631 | .1507 | .1410 | .1333 |
| .435 | 2.94 | .841 | .243 | 4.94 | .1595 | .1461 | .1356 | .1272 | .1715 | .1582 | .1477 | .1393 |
| .475 | 2.73 | .870 | .273 | 5.41 | .1838 | .1694 | .1580 | .1489 | .1971 | .1826 | .1712 | .1622 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNV = 4.00

WEIGHT * LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .435 | 3.06 | .822 | .250 | 3.84 | .1658 | .1522 | .1415 | .1330 | .1781 | .1645 | .1538 | .1453 |
| .475 | 3.00 | .864 | .301 | 4.29 | .1802 | .1653 | .1536 | .1442 | .1928 | .1790 | .1673 | .1579 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 2.83 | .786 | .157 | 3.84 | .1718 | .1582 | .1475 | .1389 | .1841 | .1704 | .1597 | .1512 |
| .415 | 2.70 | .817 | .175 | 4.30 | .1829 | .1678 | .1559 | .1465 | .1966 | .1810 | .1697 | .1602 |
| .435 | 2.53 | .842 | .133 | 4.66 | .1934 | .1772 | .1645 | .1543 | .2083 | .1921 | .1794 | .1692 |
| .475 | 2.47 | .878 | .227 | 5.06 | .2127 | .1958 | .1817 | .1708 | .2289 | .2115 | .1979 | .1870 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNV = 4.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 22.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .435 | 2.66 | .836 | .2023 | .69 | .1928 | .1766 | .1638 | .1536 | .2077 | .1915 | .1787 | .1686 |
| .475 | 2.58 | .864 | .2544 | .06 | .2097 | .1921 | .1783 | .1673 | .2261 | .2086 | .1947 | .1837 |

 LP/V(1/3) = r . 5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .335 | 2.52 | .791 | .1093 | .55 | .2091 | .1934 | .1810 | .1712 | .2235 | .2077 | .1954 | .1855 |
| .415 | 2.41 | .827 | .1284 | .07 | .2177 | .1999 | .1859 | .1747 | .2341 | .2164 | .2024 | .1912 |
| .435 | 2.32 | .853 | .146 | 4.44 | .2295 | .2083 | .1931 | .1811 | .2455 | .2263 | .2111 | .1990 |
| .475 | 2.19 | .878 | .1784 | .77 | .2508 | .2304 | .2143 | .2015 | .2701 | .2497 | .2336 | .2208 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEADRISE ANGLE = 12.5 DEG FNV = 5.00

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = +.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .435 | 2.42 | .835 | .155 | 3.46 | .2244 | .2059 | .1912 | .1796 | .2417 | .2231 | .2085 | .1968 |
| .475 | 2.34 | .866 | .201 | 3.82 | .2497 | .2296 | .2137 | .2010 | .2688 | .2486 | .2328 | .2201 |

LP/V(1/3) = +.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 2.37 | .808 | .068 | 3.35 | .2443 | .2263 | .2121 | .2008 | .2610 | .2430 | .2289 | .2175 |
| .415 | 2.24 | .833 | .032 | 3.82 | .2532 | .2329 | .2169 | .2041 | .2723 | .2520 | .2360 | .2232 |
| .435 | 2.14 | .853 | .038 | 4.17 | .2654 | .2435 | .2261 | .2123 | .2863 | .2643 | .2470 | .2331 |
| .475 | 2.03 | .876 | .136 | 4.51 | .2995 | .2761 | .2576 | .2428 | .3222 | .2987 | .2801 | .2653 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.10 DEADRISE ANGLE = 12.5 DEG FNV = 5.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | <u>S</u> <u>V(2/3)</u> | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|---------------------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .435 | 2.24 | .853 | .105 | 3.32 | .2604 | .2331 | .2224 | .2030 | .2805 | .2592 | .2425 | .2291 |
| .475 | 2.13 | .866 | .163 | 3.64 | .2913 | .2684 | .2503 | .2358 | .3133 | .2904 | .2723 | .2578 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | <u>S</u> <u>V(2/3)</u> | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|---------------------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 2.09 | .817 | .019 | 3.10 | .2810 | .2610 | .2454 | .2328 | .2997 | .2798 | .2641 | .2516 |
| .415 | 2.04 | .840 | .035 | 3.59 | .2915 | .2687 | .2507 | .2363 | .3132 | .2904 | .2724 | .2580 |
| .435 | 1.98 | .858 | .050 | 3.93 | .3075 | .2826 | .2631 | .2474 | .3312 | .3064 | .2868 | .2712 |
| .475 | 1.87 | .875 | .075 | 4.16 | .3553 | .3292 | .3087 | .2923 | .3805 | .3544 | .3339 | .3174 |

RESISTANCE DATA SERIES 62 MODEL 4665

LP/BPX = 2.00 DEACRISE ANGLE = 12.5 DEG FNV = 6.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .435 | 2.02 | .853 | .055 | 3.10 | .2993 | .2758 | .2573 | .2425 | .3216 | .2981 | .2796 | .2648 |
| .475 | 1.90 | .866 | .110 | 3.41 | .3332 | .3078 | .2878 | .2718 | .3577 | .3323 | .3123 | .2963 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .395 | 2.00 | .818 | 0.000 | 2.95 | .3254 | .3031 | .2856 | .2715 | .3467 | .3244 | .3068 | .2928 |
| .415 | 1.94 | .840 | .003 | 3.40 | .3348 | .3093 | .2892 | .2731 | .3593 | .3338 | .3137 | .2981 |
| .435 | 1.87 | .857 | .010 | 3.71 | .3506 | .3230 | .3011 | .2837 | .3774 | .3497 | .3279 | .3104 |
| .475 | 1.74 | .875 | .037 | 3.95 | .4016 | .3725 | .3495 | .3311 | .4300 | .4009 | .3779 | .3595 |

RESISTANCE DATA

SERIES 62

MODEL

4666

LP/BPX . 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 1.00

HEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10900 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 7.71 | .951 | .750 | 5.30 | .1190 | .1176 | .1164 | .1156 | .1201 | .1186 | .1175 | .1166 |
| .403 | 5.28 | .957 | 1.000 | 5.79 | .1038 | .1070 | .1038 | .1049 | .1097 | .1082 | .1070 | .1061 |
| .423 | 3.27 | .990 | 1.000 | 5.92 | .1038 | .1023 | .1011 | .1002 | .1050 | .1035 | .1023 | .1013 |
| .443 | .72 | 1.000 | .783 | 5.96 | .0995 | .0979 | .0967 | .0957 | .1007 | .0991 | .0979 | .0969 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.83 | .979 | .786 | 6.22 | .0936 | .0920 | .0907 | .0897 | .0948 | .0932 | .0919 | .0909 |
| .403 | 3.06 | .999 | 1.000 | 6.50 | .0923 | .0907 | .0894 | .0884 | .0936 | .0920 | .0907 | .0897 |
| .423 | 1.24 | 1.000 | 1.800 | 6.71 | .0892 | .0875 | .0861 | .0851 | .0905 | .0888 | .0875 | .0864 |
| .443 | -.56 | 1.000 | .989 | 6.80 | .0866 | .0849 | .0835 | .0824 | .0880 | .0862 | .0849 | .0838 |
| .483 | -2.40 | 1.000 | .990 | 6.21 | .0902 | .0886 | .0874 | .0864 | .0914 | .0898 | .0886 | .0876 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.83 | .959 | .735 | 7.00 | .0812 | .0794 | .0780 | .0769 | .0826 | .0808 | .0794 | .0783 |
| .403 | 1.76 | 1.000 | .782 | 7.06 | .0788 | .0772 | .0758 | .0747 | .0805 | .0787 | .0772 | .0761 |
| .423 | .65 | .991 | .908 | 7.34 | .0788 | .0770 | .0756 | .0744 | .0803 | .0785 | .0770 | .0759 |
| .443 | -.42 | .969 | 1.000 | 7.58 | .0789 | .0770 | .0756 | .0744 | .0804 | .0785 | .0771 | .0759 |
| .483 | -2.22 | .984 | 1.000 | 7.40 | .0789 | .0770 | .0756 | .0744 | .0803 | .0785 | .0771 | .0759 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 2.78 | .939 | .540 | 7.17 | .0740 | .0721 | .0706 | .0695 | .0754 | .0735 | .0721 | .0709 |
| .403 | 1.19 | .968 | .718 | 8.16 | .0726 | .0705 | .0689 | .0677 | .0742 | .0722 | .0706 | .0693 |
| .423 | .47 | .981 | .685 | 8.55 | .0711 | .0689 | .0672 | .0659 | .0728 | .0706 | .0689 | .0676 |
| .443 | -.25 | .991 | .654 | 8.70 | .0699 | .0677 | .0659 | .0646 | .0716 | .0694 | .0677 | .0663 |
| .483 | -1.83 | .997 | .841 | 8.42 | .0712 | .0691 | .0674 | .0662 | .0728 | .0708 | .0691 | .0678 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.00 DEADRISE ANGLE = 12.5 DEG FNP = 1.25

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.4 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | -AK- LP | -3-- | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|------------|------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 12.72 | .818 | .682 | 4.26 | .2390 | .2373 | .2359 | .2348 | .2404 | .2386 | .2372 | .2361 |
| .403 | 9.28 | .898 | .766 | 4.83 | .1937 | .1918 | .1902 | .1890 | .1933 | .1917 | .1905 | .1905 |
| .423 | 7.72 | .933 | .807 | 4.90 | .1830 | .1811 | .1795 | .1783 | .1846 | .1826 | .1811 | .1799 |
| .443 | 6.27 | .966 | .848 | 4.82 | .1804 | .1784 | .1769 | .1758 | .1819 | .1799 | .1784 | .1773 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.0 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | -LK- LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|------------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 9.20 | .968 | .778 | 5.82 | .1800 | .1778 | .1760 | .1746 | .1819 | .1796 | .1778 | .1764 |
| .403 | 6.40 | .914 | .738 | 5.64 | .1505 | .1483 | .1466 | .1452 | .1523 | .1501 | .1483 | .1469 |
| .423 | 5.25 | .927 | .774 | 5.77 | .1469 | .1446 | .1428 | .1414 | .1487 | .1464 | .1446 | .1432 |
| .443 | 4.28 | .953 | .832 | 5.97 | .1479 | .1456 | .1438 | .1423 | .1498 | .1475 | .1456 | .1442 |
| .483 | 2.93 | 1.000 | .969 | 6.43 | .1559 | .1534 | .1515 | .1500 | .1579 | .1554 | .1535 | .1520 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | -LK- LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|------------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 6.42 | .896 | .659 | 6.39 | .1371 | .1346 | .1326 | .1311 | .1391 | .1366 | .1346 | .1331 |
| .403 | 4.42 | .933 | .708 | 6.71 | .1231 | .1205 | .1184 | .1168 | .1252 | .1226 | .1205 | .1189 |
| .423 | 3.67 | .946 | .775 | 7.07 | .1245 | .1218 | .1197 | .1180 | .1268 | .1240 | .1219 | .1203 |
| .443 | 2.89 | .957 | .853 | 7.39 | .1294 | .1266 | .1244 | .1227 | .1317 | .1289 | .1267 | .1250 |
| .483 | -1.19 | .988 | .989 | 7.34 | .1423 | .1396 | .1374 | .1357 | .1446 | .1419 | .1397 | .1380 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | -LK- LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|------------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.68 | .889 | .617 | 7.33 | .1120 | .1092 | .1070 | .1052 | .1143 | .1115 | .1093 | .1075 |
| .403 | 3.18 | .937 | .691 | 7.90 | .1031 | .1001 | .0978 | .0959 | .1056 | .1026 | .1003 | .0984 |
| .423 | 2.51 | .957 | .744 | 7.71 | .1063 | .1034 | .1011 | .0993 | .1087 | .1058 | .1035 | .1017 |
| .443 | 1.73 | .971 | .835 | 7.43 | .1127 | .1099 | .1077 | .1060 | .1150 | .1122 | .1100 | .1083 |
| .483 | -0.61 | .967 | .755 | 7.31 | .1300 | .1273 | .1251 | .1234 | .1323 | .1296 | .1274 | .1257 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.06 DEADRISE ANGLE = 12.5 DEG FNW = 1.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 150.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 15.73 | .601 | .496 | 7.51 | .3013 | .2998 | .2986 | .2976 | .3025 | .3009 | .2996 | .2988 |
| .403 | 11.29 | .821 | .664 | 3.67 | .2250 | .2229 | .2212 | .2199 | .2266 | .2245 | .2229 | .2216 |
| .423 | 9.28 | .993 | .713 | 4.33 | .2021 | .1996 | .1977 | .1962 | .2040 | .2016 | .1997 | .1982 |
| .443 | 7.40 | .940 | .793 | 5.04 | .1893 | .1865 | .1843 | .1826 | .1916 | .1888 | .1866 | .1848 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.1 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 10.92 | .968 | .751 | 5.69 | .2142 | .2111 | .2087 | .2068 | .2167 | .2137 | .2112 | .2093 |
| .403 | 7.29 | .875 | .664 | 5.18 | .1627 | .1598 | .1575 | .1557 | .1650 | .1621 | .1599 | .1581 |
| .473 | 6.12 | .895 | .707 | 5.43 | .1540 | .1510 | .1487 | .1468 | .1565 | .1535 | .1511 | .1493 |
| .443 | 5.04 | .937 | .781 | 5.82 | .1549 | .1517 | .1492 | .1473 | .1575 | .1543 | .1519 | .1499 |
| .483 | 2.21 | 1.000 | .941 | 6.40 | .1793 | .1759 | .1733 | .1712 | .1822 | .1788 | .1762 | .1741 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 7.46 | .819 | .611 | 5.76 | .1582 | .1550 | .1525 | .1505 | .1607 | .1576 | .1551 | .1531 |
| .403 | 5.04 | .913 | .672 | 6.51 | .1313 | .1278 | .1250 | .1229 | .1342 | .1307 | .1276 | .1258 |
| .423 | 4.14 | .927 | .718 | 6.58 | .1309 | .1274 | .1246 | .1224 | .1339 | .1303 | .1276 | .1254 |
| .443 | 3.35 | .933 | .769 | 6.60 | .1370 | .1335 | .1307 | .1285 | .1399 | .1364 | .1337 | .1315 |
| .483 | 1.76 | .972 | .875 | 7.01 | .1617 | .1580 | .1552 | .1529 | .1648 | .1612 | .1583 | .1560 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 177.5 13.7 29.6 63.1 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.29 | .828 | .572 | 6.69 | .1237 | .1201 | .1172 | .1150 | .1267 | .1231 | .1202 | .1180 |
| .403 | 3.66 | .921 | .647 | 7.57 | .1132 | .1092 | .1060 | .1035 | .1166 | .1125 | .1094 | .1069 |
| .423 | 1.01 | .938 | .671 | 9.14 | .1150 | .1107 | .1074 | .1047 | .1187 | .1144 | .1111 | .1084 |
| .443 | 2.43 | .940 | .698 | 8.56 | .1211 | .1166 | .1131 | .1103 | .1250 | .1205 | .1170 | .1142 |
| .483 | 1.33 | .967 | .794 | 8.21 | .1446 | .1403 | .1370 | .1344 | .1482 | .1440 | .1407 | .1380 |

RESISTANCE DATA SERIES 62 MODEL 4606

LP/BPX = 3.06 DEADRISE ANGLE = 12.5 DEG FN0 = 1.75

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 15.64 | .580 | .525 | 2.67 | .2922 | .2900 | .2884 | .2870 | .2938 | .2917 | .2900 | .2887 |
| .403 | 12.87 | .732 | .532 | 3.15 | .2513 | .2484 | .2469 | .2454 | .2532 | .2507 | .2488 | .2473 |
| .423 | 11.35 | .790 | .620 | 3.47 | .2292 | .2265 | .2245 | .2228 | .2313 | .2287 | .2266 | .2249 |
| .443 | 9.74 | .837 | .656 | 3.86 | .2061 | .2032 | .2009 | .1991 | .2084 | .2055 | .2033 | .2015 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 11.28 | .689 | .503 | 3.54 | .2280 | .2253 | .2232 | .2215 | .2302 | .2275 | .2253 | .2236 |
| .403 | 9.76 | .782 | .531 | 4.25 | .1868 | .1836 | .1811 | .1791 | .1894 | .1862 | .1837 | .1817 |
| .423 | 7.56 | .835 | .535 | 4.68 | .1690 | .1655 | .1628 | .1607 | .1718 | .1684 | .1657 | .1635 |
| .443 | 6.27 | .892 | .638 | 5.14 | .1609 | .1571 | .1542 | .1519 | .1640 | .1603 | .1574 | .1550 |
| .483 | 3.04 | 1.000 | .648 | 6.09 | .1972 | .1929 | .1896 | .1869 | .2009 | .1967 | .1933 | .1907 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 7.97 | .706 | .531 | 4.70 | .1714 | .1679 | .1651 | .1629 | .1743 | .1708 | .1680 | .1658 |
| .403 | 5.85 | .850 | .616 | 5.86 | .1415 | .1373 | .1340 | .1313 | .1451 | .1409 | .1375 | .1349 |
| .423 | 4.84 | .893 | .651 | 6.25 | .1377 | .1332 | .1297 | .1269 | .1415 | .1370 | .1335 | .1308 |
| .443 | 3.87 | .922 | .712 | 6.52 | .1420 | .1374 | .1338 | .1310 | .1460 | .1414 | .1378 | .1350 |
| .483 | 2.10 | .964 | .836 | 6.69 | .1778 | .1732 | .1696 | .1667 | .1819 | .1773 | .1737 | .1706 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.6 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.83 | .757 | .536 | 6.02 | .1378 | .1334 | .1300 | .1272 | .1414 | .1371 | .1336 | .1309 |
| .403 | 1.15 | .893 | .633 | 7.17 | .1168 | .1117 | .1078 | .1046 | .1212 | .1161 | .1122 | .1090 |
| .423 | 1.45 | .920 | .636 | 7.46 | .1201 | .1149 | .1109 | .1076 | .1247 | .1195 | .1154 | .1122 |
| .443 | 2.79 | .933 | .660 | 7.62 | .1298 | .1246 | .1204 | .1171 | .1345 | .1292 | .1251 | .1218 |
| .483 | 1.40 | .963 | .715 | 7.77 | .1599 | .1545 | .1504 | .1470 | .1646 | .1593 | .1551 | .1518 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.06 DEADRISE ANGLE = 12.5 DEG FNV = 2.00

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 14.63 | .607 | .493 | 2.55 | .2653 | .2627 | .2607 | .2590 | .2674 | .2647 | .2627 | .2611 |
| .403 | 11.60 | .675 | .551 | 2.92 | .2306 | .2277 | .2257 | .2236 | .2330 | .2300 | .2277 | .2259 |
| .423 | 10.64 | .709 | .581 | 3.10 | .2188 | .2157 | .2137 | .2115 | .2213 | .2182 | .2158 | .2139 |
| .443 | 10.05 | .744 | .608 | 3.29 | .2107 | .2075 | .2055 | .2030 | .2134 | .2101 | .2076 | .2056 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 10.59 | .569 | .493 | 3.11 | .2082 | .2050 | .2026 | .2007 | .2107 | .2075 | .2051 | .2032 |
| .403 | 9.68 | .734 | .555 | 3.91 | .1853 | .1815 | .1786 | .1762 | .1884 | .1846 | .1817 | .1794 |
| .423 | 7.92 | .778 | .589 | 4.16 | .1757 | .1717 | .1686 | .1661 | .1790 | .1750 | .1719 | .1695 |
| .443 | 7.11 | .815 | .626 | 4.45 | .1694 | .1652 | .1620 | .1594 | .1730 | .1688 | .1655 | .1629 |
| .453 | 4.72 | .933 | .723 | 5.59 | .1740 | .1689 | .1649 | .1617 | .1785 | .1734 | .1694 | .1662 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 9.05 | .630 | .494 | 4.09 | .1713 | .1673 | .1642 | .1618 | .1746 | .1706 | .1675 | .1650 |
| .403 | 5.33 | .768 | .552 | 4.96 | .1505 | .1459 | .1422 | .1393 | .1545 | .1498 | .1462 | .1433 |
| .423 | 5.51 | .835 | .595 | 5.49 | .1422 | .1372 | .1332 | .1301 | .1466 | .1415 | .1376 | .1345 |
| .443 | 4.63 | .891 | .641 | 5.87 | .1402 | .1348 | .1307 | .1273 | .1449 | .1395 | .1354 | .1320 |
| .453 | 2.92 | .937 | .733 | 5.92 | .1695 | .1642 | .1601 | .1568 | .1742 | .1690 | .1648 | .1615 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.6 137.5 13.7 29.6 63.6 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 6.15 | .685 | .434 | 5.22 | .1470 | .1420 | .1382 | .1351 | .1511 | .1462 | .1424 | .1393 |
| .403 | 4.58 | .828 | .551 | 6.33 | .1262 | .1204 | .1159 | .1123 | .1312 | .1255 | .1210 | .1174 |
| .423 | 3.90 | .878 | .592 | 6.84 | .1233 | .1171 | .1123 | .1085 | .1288 | .1226 | .1178 | .1140 |
| .443 | 3.24 | .914 | .615 | 7.23 | .1273 | .1209 | .1159 | .1118 | .1331 | .1267 | .1216 | .1176 |
| .453 | 1.87 | .936 | .638 | 7.38 | .1618 | .1553 | .1502 | .1462 | .1677 | .1612 | .1551 | .1521 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.06 DcADRISE ANGLE = 12.5 DEG FN9 = 2.50

 HEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V (1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .433 | 9.33 | .623 | .478 | 2.59 | .1960 | .1920 | .1889 | .1865 | .1992 | .1953 | .1922 | .1897 |
| .423 | 9.74 | .652 | .510 | 2.75 | .1923 | .1881 | .1849 | .1823 | .1957 | .1916 | .1883 | .1858 |
| .413 | 9.17 | .682 | .542 | 2.91 | .1886 | .1842 | .1809 | .1782 | .1922 | .1879 | .1845 | .1818 |

LP/V (1/3) = 4.5 LP (FT) = 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.33 | .523 | .416 | 2.73 | .1821 | .1779 | .1746 | .1720 | .1855 | .1813 | .1780 | .1754 |
| .403 | 7.29 | .665 | .430 | 3.43 | .1695 | .1644 | .1605 | .1573 | .1737 | .1687 | .1647 | .1616 |
| .423 | 6.90 | .699 | .506 | 3.67 | .1645 | .1593 | .1551 | .1519 | .1690 | .1638 | .1597 | .1564 |
| .443 | 6.32 | .732 | .542 | 3.82 | .1605 | .1550 | .1507 | .1472 | .1653 | .1597 | .1554 | .1520 |
| .483 | 5.29 | .860 | .594 | 4.82 | .1551 | .1486 | .1436 | .1395 | .1609 | .1544 | .1493 | .1453 |

LP/V (1/3) = 5.0 LP (FT) = 12.5 26.9 58.11 125.0 12.5 26.3 58.0 125.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 6.65 | .582 | .419 | 3.67 | .1557 | .1503 | .1461 | .1428 | .1602 | .1548 | .1506 | .1473 |
| .403 | 5.63 | .685 | .486 | 4.31 | .1480 | .1418 | .1369 | .1331 | .1534 | .1472 | .1423 | .1385 |
| .423 | 5.19 | .757 | .511 | 4.75 | .1428 | .1361 | .1309 | .1267 | .1487 | .1420 | .1368 | .1326 |
| .443 | 4.75 | .825 | .536 | 5.14 | .1399 | .1327 | .1271 | .1227 | .1463 | .1392 | .1336 | .1291 |
| .483 | 3.92 | .894 | .633 | 5.43 | .1499 | .1425 | .1367 | .1321 | .1567 | .1493 | .1435 | .1389 |

LP/V (1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.41 | .634 | .417 | 4.63 | .1429 | .1362 | .1310 | .1268 | .1486 | .1420 | .1369 | .1326 |
| .403 | 4.40 | .741 | .474 | 5.46 | .1349 | .1273 | .1214 | .1166 | .1418 | .1342 | .1282 | .1235 |
| .423 | 3.99 | .808 | .530 | 5.96 | .1315 | .1233 | .1169 | .1118 | .1390 | .1308 | .1244 | .1193 |
| .443 | 3.60 | .868 | .527 | 6.41 | .1316 | .1229 | .1161 | .1107 | .1396 | .1309 | .1241 | .1187 |
| .483 | 2.63 | .914 | .531 | 6.82 | .1518 | .1428 | .1357 | .1300 | .1604 | .1513 | .1442 | .1385 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/PPX = 3.56 DEADRISE ANGLE = 12.5 DEG FNV = 3.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 7.44 | .577 | .423 | 2.33 | .1697 | .1642 | .1603 | .1572 | .1734 | .1684 | .1645 | .1614 |
| .423 | 7.08 | .635 | .452 | 1.55 | .1688 | .1634 | .1592 | .1558 | .1734 | .1680 | .1638 | .1604 |
| .443 | 6.72 | .653 | .431 | 2.78 | .1683 | .1626 | .1580 | .1544 | .1733 | .1676 | .1630 | .1594 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 6.01 | .520 | .330 | 2.62 | .1602 | .1546 | .1502 | .1467 | .1649 | .1593 | .1549 | .1514 |
| .403 | 5.91 | .583 | .427 | 2.99 | .1543 | .1480 | .1431 | .1392 | .1596 | .1534 | .1485 | .1446 |
| .423 | 5.62 | .657 | .432 | 3.30 | .1529 | .1462 | .1409 | .1366 | .1589 | .1521 | .1468 | .1426 |
| .443 | 5.33 | .729 | .430 | 3.64 | .1527 | .1454 | .1396 | .1350 | .1592 | .1519 | .1462 | .1416 |
| .493 | 4.60 | .822 | .547 | 4.28 | .1556 | .1472 | .1406 | .1353 | .1633 | .1549 | .1483 | .1430 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LOG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.43 | .567 | .370 | 3.44 | .1473 | .1401 | .1345 | .1301 | .1534 | .1463 | .1407 | .1363 |
| .403 | 4.77 | .604 | .453 | 4.09 | .1454 | .1372 | .1308 | .1257 | .1528 | .1446 | .1382 | .1330 |
| .423 | 4.51 | .716 | .473 | 4.41 | .1444 | .1357 | .1288 | .1234 | .1523 | .1436 | .1368 | .1313 |
| .443 | 4.26 | .771 | .430 | 4.71 | .1444 | .1353 | .1280 | .1223 | .1529 | .1437 | .1365 | .1307 |
| .483 | 3.70 | .875 | .543 | 5.17 | .1515 | .1417 | .1339 | .1277 | .1608 | .1510 | .1432 | .1370 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 23.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP (DEG) | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.49 | .625 | .367 | 4.33 | .1427 | .1340 | .1271 | .1217 | .1505 | .1418 | .1349 | .1295 |
| .403 | 3.96 | .720 | .433 | 5.13 | .1426 | .1326 | .1247 | .1185 | .1518 | .1418 | .1340 | .1277 |
| .423 | 3.67 | .769 | .449 | 5.48 | .1444 | .1338 | .1255 | .1189 | .1542 | .1437 | .1354 | .1288 |
| .443 | 3.39 | .854 | .454 | 5.79 | .1473 | .1363 | .1276 | .1210 | .1578 | .1467 | .1380 | .1311 |
| .483 | 2.61 | .998 | .513 | 6.36 | .1569 | .1450 | .1357 | .1282 | .1684 | .1565 | .1471 | .1396 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.16 DEADRISE ANGLE = 12.5 DEG FNV = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.51 | .542 | .355 | 2.58 | .1520 | .1447 | .1389 | .1344 | .1583 | .1510 | .1453 | .1407 |
| .403 | 4.92 | .556 | .386 | 2.73 | .1502 | .1426 | .1366 | .1318 | .1569 | .1492 | .1433 | .1385 |
| .423 | 4.55 | .630 | .418 | 3.09 | .1506 | .1421 | .1354 | .1302 | .1581 | .1497 | .1431 | .1378 |
| .443 | 4.40 | .713 | .451 | 3.49 | .1518 | .1425 | .1351 | .1293 | .1604 | .1510 | .1437 | .1378 |
| .483 | 3.97 | .807 | .499 | 4.00 | .1570 | .1465 | .1383 | .1317 | .1668 | .1563 | .1481 | .1415 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| CCC LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.43 | .590 | .337 | 3.31 | .1469 | .1378 | .1307 | .1250 | .1550 | .1460 | .1388 | .1331 |
| .403 | 4.10 | .681 | .422 | 4.01 | .1483 | .1376 | .1283 | .1226 | .1581 | .1475 | .1391 | .1324 |
| .423 | 3.91 | .716 | .433 | 4.23 | .1501 | .1391 | .1303 | .1234 | .1605 | .1494 | .1407 | .1337 |
| .443 | 3.72 | .753 | .441 | 4.41 | .1531 | .1416 | .1326 | .1254 | .1639 | .1524 | .1434 | .1362 |
| .483 | 3.36 | .859 | .493 | 5.03 | .1633 | .1506 | .1406 | .1325 | .1756 | .1629 | .1529 | .1448 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.84 | .625 | .334 | 4.17 | .1506 | .1395 | .1307 | .1238 | .1608 | .1497 | .1409 | .1340 |
| .403 | 3.39 | .727 | .387 | 4.94 | .1532 | .1404 | .1303 | .1223 | .1653 | .1535 | .1424 | .1344 |
| .423 | 3.22 | .765 | .404 | 5.24 | .1578 | .1444 | .1338 | .1254 | .1706 | .1572 | .1466 | .1382 |
| .443 | 3.05 | .800 | .413 | 5.51 | .1636 | .1496 | .1386 | .1298 | .1771 | .1631 | .1521 | .1433 |
| .483 | 2.59 | .881 | .464 | 6.09 | .1761 | .1610 | .1490 | .1395 | .1910 | .1759 | .1640 | .1544 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.06 DEADWISE ANGLE = 12.5 DEG FNV = 4.00

 HEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 14.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .403 | 4.13 | .576 | .348 | 2.60 | .1531 | .1435 | .1360 | .1301 | .1617 | .1521 | .1446 | .1386 |
| .423 | 4.03 | .656 | .387 | 3.07 | .1555 | .1440 | .1365 | .1298 | .1653 | .1557 | .1483 | .1396 |
| .443 | 3.88 | .721 | .420 | 3.42 | .1591 | .1474 | .1383 | .1310 | .1700 | .1584 | .1492 | .1419 |
| .483 | 3.40 | .806 | .472 | 3.99 | .1699 | .1566 | .1461 | .1378 | .1826 | .1694 | .1589 | .1505 |

LP/V(1/3) = 9.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .403 | 3.46 | .683 | .400 | 3.94 | .1601 | .1468 | .1364 | .1280 | .1727 | .1594 | .1490 | .1406 |
| .423 | 3.37 | .739 | .401 | 4.21 | .1629 | .1488 | .1378 | .1290 | .1763 | .1623 | .1513 | .1424 |
| .443 | 1.27 | .787 | .448 | 4.43 | .1672 | .1526 | .1411 | .1318 | .1814 | .1667 | .1552 | .1460 |
| .493 | 3.03 | .859 | .448 | 4.75 | .1805 | .1651 | .1529 | .1432 | .1957 | .1803 | .1682 | .1584 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.27 | .624 | .302 | 4.01 | .1651 | .1514 | .1407 | .1321 | .1779 | .1642 | .1535 | .1449 |
| .403 | 2.95 | .726 | .348 | 4.74 | .1716 | .1559 | .1436 | .1337 | .1868 | .1711 | .1587 | .1488 |
| .423 | 2.83 | .773 | .368 | 5.09 | .1766 | .1600 | .1469 | .1364 | .1928 | .1762 | .1631 | .1526 |
| .443 | 2.72 | .815 | .385 | 5.39 | .1831 | .1657 | .1519 | .1409 | .2003 | .1829 | .1692 | .1582 |
| .483 | 2.39 | .880 | .415 | 5.78 | .2020 | .1836 | .1691 | .1574 | .2205 | .2021 | .1876 | .1759 |

RESISTANCE DATA

SERIES 6 2

MODEL 4666

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 4.50

| ***** | | | | | | | | | | | | | |
|---|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000 | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | |
| LP/V(1/3) = 4.5 | | | | | | | | | | | | | |
| L P (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | Lc | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DEG) | LP | LP | V(2/3) | ----- | | | | ----- | | | | |
| .443 | 3.32 | .715 | .398 | 3.31 | .1699 | .1560 | .1449 | .1361 | .1833 | .1694 | .1583 | .1495 | |
| .483 | 3.01 | .801 | .411 | 3.72 | .1913 | .1758 | .1637 | .1539 | .2063 | .1909 | .1787 | .1690 | |
| ***** | | | | | | | | | | | | | |
| LP/V(1/3) = 5.0 | | | | | | | | | | | | | |
| L P (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 50.0 125.0 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DEG) | LP | LP | V(2/3) | ----- | | | | ----- | | | | |
| .443 | 2.91 | .790 | .365 | 4.24 | .1849 | .1675 | .1537 | .1427 | .2020 | .1846 | .1709 | .1599 | |
| .483 | 2.63 | .861 | .415 | 4.61 | .2031 | .1846 | .1699 | .1582 | .2218 | .2033 | .1886 | .1769 | |
| ***** | | | | | | | | | | | | | |
| LP/V(1/3) = 5.5 | | | | | | | | | | | | | |
| L P (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5 | | | | | | | | | | | | | |
| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
| LP | (DEG) | LP | LP | V(2/3) | ----- | | | | ----- | | | | |
| .443 | 2.36 | .815 | .333 | 5.11 | .2124 | .1918 | .1756 | .1625 | .2330 | .2125 | .1962 | .1832 | |
| .483 | 2.20 | .871 | .375 | 5.53 | .2333 | .2115 | .1942 | .1803 | .2552 | .2339 | .2166 | .2027 | |
| ***** | | | | | | | | | | | | | |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.06 DEADRISE ANGLE = 12.5 DEG FNV = 5.00

WEIGHT = LIFT (L3, SeAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 2.83 | .737 | .356 | 3.22 | .1910 | .1753 | .1623 | .1519 | .2078 | .1914 | .1784 | .1680 |
| .493 | 2.70 | .821 | .470 | 3.76 | .2081 | .1893 | .1745 | .1626 | .2269 | .2081 | .1933 | .1814 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 2.58 | .791 | .331 | 4.10 | .2109 | .1905 | .1743 | .1614 | .2314 | .2110 | .1948 | .1819 |
| .493 | 2.39 | .863 | .334 | 4.43 | .2340 | .2129 | .1956 | .1816 | .2572 | .2353 | .2180 | .2041 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 2.14 | .813 | .300 | 4.93 | .2433 | .2192 | .2001 | .1848 | .2680 | .2439 | .2248 | .2095 |
| .493 | 2.30 | .970 | .342 | 5.35 | .2722 | .2465 | .2261 | .2098 | .2989 | .2732 | .2529 | .2365 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 3.36 OEADRXE ANGLE = 12.5 DEG FNU = 5.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 2.51 | .754 | .308 | 3.14 | .2126 | .1934 | .1782 | .1661 | .2315 | .2124 | .1972 | .1851 |
| .483 | 2.32 | .843 | .367 | 3.69 | .2365 | .2146 | .1973 | .1833 | .2588 | .2369 | .2195 | .2056 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 50.0 625.0 12.5 26.9 50.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 2.28 | .711 | .318 | 4.11 | .2438 | .2195 | .2003 | .1849 | .2687 | .2444 | .2252 | .2097 |
| .483 | 2.17 | .866 | .354 | 4.45 | .2657 | .2398 | .2201 | .2028 | .2926 | .2667 | .2462 | .2298 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .443 | 1.93 | .828 | .270 | 4.05 | .2840 | .2558 | .2334 | .2155 | .3133 | .2851 | .2628 | .2448 |
| .483 | 1.88 | .869 | .312 | 5.23 | .3095 | .2795 | .2557 | .2366 | .3411 | .3111 | .2873 | .2682 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNW = 1.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LGG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.52 | .978 | 1.000 | 7.61 | .0673 | .0655 | .0640 | .0629 | .0689 | .0670 | .0656 | .0644 |
| .409 | 1.76 | .960 | .909 | 7.28 | .0636 | .0618 | .0604 | .0593 | .0650 | .0632 | .0618 | .0607 |
| .429 | .80 | .969 | .960 | 7.13 | .0621 | .0604 | .0590 | .0579 | .0636 | .0618 | .0604 | .0593 |
| .449 | -.10 | .990 | 1.000 | 7.12 | .0610 | .0593 | .0579 | .0569 | .0624 | .0607 | .0593 | .0583 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LGG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.63 | .986 | .921 | 8.1b | .0601 | .0581 | .0566 | .0554 | .0617 | .0598 | .0582 | .0570 |
| .409 | 1.10 | .951 | .763 | 7.58 | .0551 | .0532 | .0517 | .0506 | .0566 | .0547 | .0532 | .0521 |
| .429 | .40 | .967 | .824 | 7.45 | .0548 | .0529 | .0515 | .0504 | .0562 | .0544 | .0530 | .0518 |
| .449 | -.27 | .988 | .910 | 7.52 | .0552 | .0533 | .0519 | .0508 | .0567 | .0548 | .0534 | .0523 |
| .459 | -1.61 | 1.000 | .942 | 6.12 | .0559 | .0540 | .0524 | .0512 | .0575 | .0556 | .0541 | .0528 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LGG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 1.30 | .959 | .560 | 7.70 | .0539 | .0519 | .0504 | .0493 | .0554 | .0535 | .0520 | .0508 |
| .409 | .67 | .973 | .565 | 7.71 | .0496 | .0477 | .0462 | .0450 | .0512 | .0492 | .0478 | .0466 |
| .429 | .16 | .987 | .570 | 7.61 | .0495 | .0476 | .0462 | .0450 | .0511 | .0492 | .0477 | .0465 |
| .449 | -.35 | .999 | .576 | 7.70 | .0501 | .0482 | .0467 | .0455 | .0516 | .0497 | .0482 | .0470 |
| .459 | -1.55 | 1.000 | .583 | 9.21 | .0510 | .0487 | .0469 | .0455 | .0528 | .0506 | .0488 | .0473 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNV = 1.25

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 L P (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.51 | .893 | .783 | 6.58 | .1160 | .1136 | .1116 | .1101 | .1181 | .1156 | .1137 | .1121 |
| .409 | 3.88 | .939 | .749 | 6.75 | .1041 | .1015 | .0995 | .0980 | .1062 | .1036 | .1017 | .1001 |
| .429 | 2.95 | .964 | .865 | 7.02 | .1024 | .0998 | .0978 | .0962 | .1046 | .1020 | .1000 | .0984 |
| .443 | 1.94 | .989 | 1.000 | 7.40 | .1037 | .1010 | .0990 | .0973 | .1060 | .1034 | .1013 | .0996 |

LP/V(1/3) = 6.0 L P (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.27 | .901 | .865 | 7.92 | .0977 | .0948 | .0925 | .0907 | .1002 | .0973 | .0950 | .0932 |
| .409 | 2.88 | .926 | .785 | 7.73 | .0890 | .0862 | .0839 | .0822 | .0914 | .0886 | .0864 | .0846 |
| .429 | 2.00 | .955 | .816 | 7.53 | .0894 | .0866 | .0845 | .0827 | .0917 | .0890 | .0868 | .0851 |
| .449 | 1.20 | .981 | .866 | 7.42 | .0914 | .0887 | .0866 | .0850 | .0938 | .0911 | .0890 | .0873 |
| .489 | -0.00 | .978 | .936 | 7.90 | .0965 | .0937 | .0915 | .0897 | .0990 | .0962 | .0939 | .0922 |

LP/V(1/3) = 6.5 L P (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.15 | .924 | .873 | a.99 | .0825 | .0793 | .0768 | .0748 | .0853 | .0821 | .0796 | .0776 |
| .409 | 1.84 | .958 | .949 | 9.24 | .0766 | .0733 | .0707 | .0687 | .0794 | .0762 | .0736 | .0716 |
| .429 | 1.24 | .973 | .889 | 8.04 | .0773 | .0744 | .0721 | .0703 | .0798 | .0769 | .0746 | .0728 |
| .449 | .67 | .986 | .452 | 6.93 | .0800 | .0774 | .0754 | .0737 | .0822 | .0796 | .0775 | .a759 |
| .489 | -.43 | .998 | .715 | 8.38 | .0896 | .0866 | .0842 | .0823 | .0922 | .0892 | .0868 | .0849 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNØ = 1.50

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.93 | .854 | .726 | 5.98 | .1279 | .1247 | .1222 | .1203 | .1306 | .1274 | .1249 | .1230 |
| .409 | 4.31 | .922 | .675 | 6.04 | .1135 | .1103 | .1078 | .1058 | .1162 | .1130 | .1105 | .1085 |
| .429 | 3.51 | .952 | .711 | 6.19 | .1127 | .1095 | .1070 | .1050 | .1155 | .1123 | .1098 | .1077 |
| .449 | 2.70 | .980 | .788 | 6.41 | .1163 | .1130 | .1104 | .1083 | .1192 | .1159 | .1133 | .1112 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.59 | .875 | .788 | 7.29 | .1081 | .1043 | .1014 | .0991 | .1114 | .1076 | .1047 | .1023 |
| .409 | 3.34 | .926 | .710 | 7.14 | .1003 | .0967 | .0938 | .0915 | .1036 | .0999 | .0970 | .0947 |
| .429 | 2.68 | .946 | .764 | 7.15 | .1014 | .0978 | .0949 | .0926 | .1046 | .1010 | .0981 | .0959 |
| .449 | 2.04 | .962 | .831 | 7.27 | .1050 | .1013 | .0984 | .0961 | .1082 | .1046 | .1017 | .0994 |
| .489 | .97 | .976 | .859 | 8.03 | .1169 | .1129 | .1097 | .1072 | .1205 | .1165 | .1133 | .1108 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.66 | .897 | .798 | 8.46 | .0936 | .0894 | .0860 | .0834 | .0974 | .0932 | .0898 | .0872 |
| .409 | 2.41 | .936 | .898 | 9.08 | .0897 | .0852 | .0817 | .0788 | .0937 | .0893 | .0857 | .0829 |
| .429 | 1.37 | .949 | .939 | 9.20 | .0911 | .0866 | .0830 | .0802 | .0952 | .0907 | .0872 | .0844 |
| .449 | 1.56 | .962 | .950 | 9.22 | .0949 | .0904 | .0868 | .0840 | .0990 | .0945 | .0910 | .0881 |
| .489 | .50 | .998 | .829 | 9.03 | .1096 | .1051 | .1016 | .0988 | .1137 | .1092 | .1057 | .1029 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.03 DEADRISE ANGLE = 12.5 DEG FNV = 1.75

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.0 137.5 13.7 29.6 63.0 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 6.76 | .729 | .625 | 4.49 | .1467 | .1435 | .1409 | .1389 | .1495 | .1462 | .1437 | .1417 |
| .409 | 4.67 | .900 | .629 | 5.82 | .1239 | .1198 | .1166 | .1141 | .1275 | .1234 | .1202 | .1177 |
| .429 | 3.93 | .940 | .672 | 6.17 | .1222 | .1179 | .1146 | .1119 | .1260 | .1217 | .1184 | .1157 |
| .449 | 3.38 | .948 | .743 | 6.32 | .1270 | .1226 | .1192 | .1165 | .1308 | .1265 | .1231 | .1204 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.01 | .813 | .729 | 6.33 | .1207 | .1163 | .1129 | .1102 | .1245 | .1202 | .1168 | .1141 |
| .409 | 3.58 | .914 | .672 | 6.97 | .1099 | .1051 | .1014 | .0984 | .1142 | .1094 | .1057 | .1027 |
| .429 | 2.62 | .938 | .721 | 7.12 | .1109 | .1061 | .1023 | .0993 | .1153 | .1104 | .1067 | .1037 |
| .449 | 2.11 | .950 | .783 | 7.25 | .1153 | .1105 | .1067 | .1036 | .1198 | .1149 | .1111 | .1081 |
| .489 | 1.08 | .953 | .830 | 7.73 | .1320 | .1269 | .1228 | .1196 | .1368 | .1316 | .1276 | .1243 |

LP/V(1/3) = 6.4 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.81 | .869 | .739 | 7.93 | .1024 | .0970 | .0928 | .0895 | .1073 | .1019 | .0977 | .0944 |
| .409 | 2.66 | .929 | .869 | 8.90 | .0982 | .0924 | .0879 | .0842 | .1037 | .0979 | .0933 | .0897 |
| .429 | 2.15 | .944 | .912 | 9.08 | .1006 | .0947 | .0901 | .0864 | .1062 | .1003 | .0956 | .0919 |
| .449 | 1.67 | .955 | .933 | 9.09 | .1059 | .1000 | .0954 | .0917 | .1115 | .1056 | .1010 | .0973 |
| .489 | .88 | .984 | .894 | 8.65 | .1252 | .1196 | .1152 | .1117 | .1305 | .1249 | .1205 | .1170 |

RESISTANCE DATA SERIES 02 MODEL 4667-1

LP/RPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNW = 2.00

 WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 7.55 | .661 | .596 | 3.97 | .1646 | .1609 | .1580 | .1557 | .1677 | .1640 | .1612 | .1589 |
| .409 | 5.44 | .843 | .591 | 5.44 | .1367 | .1318 | .1280 | .1249 | .1411 | .1362 | .1323 | .1293 |
| .429 | 4.65 | .898 | .623 | 5.95 | .1326 | .1273 | .1231 | .1198 | .1374 | .1321 | .1279 | .1246 |
| .449 | 4.03 | .928 | .700 | 6.34 | .1350 | .1294 | .1250 | .1215 | .1400 | .1345 | .1301 | .1266 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 63.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.73 | .751 | .700 | 5.58 | .1378 | .1329 | .1291 | .1260 | .1423 | .1374 | .1335 | .1304 |
| .409 | 4.03 | .777 | .632 | 6.83 | .1218 | .1158 | .1111 | .1074 | .1273 | .1213 | .1166 | .1129 |
| .429 | 3.30 | .915 | .686 | 7.37 | .1208 | .1144 | .1094 | .1054 | .1267 | .1203 | .1153 | .1113 |
| .449 | 2.54 | .938 | .757 | 7.75 | .1245 | .1179 | .1127 | .1088 | .1307 | .1241 | .1189 | .1147 |
| .489 | 1.13 | .952 | .933 | 7.74 | .1469 | .1403 | .1352 | .1311 | .1530 | .1465 | .1414 | .1373 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.26 | .814 | .692 | 7.27 | .1167 | .1105 | .1055 | .1016 | .1225 | .1163 | .1114 | .1074 |
| .409 | 2.90 | .908 | .828 | 8.71 | .1089 | .1017 | .0959 | .0914 | .1159 | .1086 | .1029 | .0983 |
| .429 | 2.32 | .932 | .882 | 9.05 | .1107 | .1032 | .0973 | .0926 | .1179 | .1104 | .1045 | .0998 |
| .449 | 1.78 | .943 | .923 | 9.16 | .1165 | .1090 | .1031 | .0983 | .1238 | .1163 | .1104 | .1056 |
| .489 | .79 | .978 | .965 | 0.74 | .1415 | .1344 | .1287 | .1242 | .1485 | .1413 | .1357 | .1312 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/SPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNR = 2.50

WEIGHT = LIFT (LBS IN SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 7.13 | .602 | .526 | 3.67 | .1592 | .1540 | .1499 | .1467 | .1638 | .1586 | .1545 | .1513 |
| .409 | 5.90 | .708 | .505 | 4.01 | .1492 | .1436 | .1392 | .1357 | .1542 | .1486 | .1442 | .1407 |
| .429 | 5.27 | .786 | .526 | 4.39 | .1447 | .1387 | .1340 | .1302 | .1502 | .1442 | .1394 | .1357 |
| .443 | 4.63 | .880 | .507 | 4.93 | .1406 | .1339 | .1288 | .1246 | .1467 | .1401 | .1349 | .1308 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.78 | .649 | .612 | 4.97 | .1418 | .1351 | .1298 | .1256 | .1480 | .1413 | .1360 | .1318 |
| .409 | 4.67 | .753 | .529 | 5.09 | .1374 | .1306 | .1252 | .1209 | .1438 | .1369 | .1315 | .1272 |
| .429 | 4.07 | .824 | .570 | 5.56 | .1340 | .1267 | .1209 | .1162 | .1400 | .1336 | .1278 | .1232 |
| .449 | 3.45 | .889 | .612 | 6.17 | .1333 | .1253 | .1199 | .1139 | .1410 | .1330 | .1266 | .1216 |
| .439 | 2.19 | .939 | .712 | 7.37 | .1500 | .1406 | .1332 | .1272 | .1590 | .1498 | .1424 | .1364 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.53 | .689 | .614 | 6.07 | .1304 | .1223 | .1160 | .1110 | .1379 | .1299 | .1236 | .1186 |
| .409 | 3.51 | .833 | .648 | 7.02 | .1271 | .1181 | .1110 | .1053 | .1359 | .1269 | .1198 | .1140 |
| .429 | 2.97 | .880 | .737 | 7.69 | .1283 | .1186 | .1109 | .1048 | .1379 | .1282 | .1205 | .1144 |
| .449 | 2.43 | .914 | .832 | 8.32 | .1332 | .1229 | .1147 | .1081 | .1436 | .1333 | .1251 | .1185 |
| .439 | 1.38 | .948 | .918 | 9.05 | .1599 | .1488 | .1400 | .1330 | .1712 | .1601 | .1513 | .1443 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNV = 3.00

 HEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .359 | 6.00 | .573 | .497 | 3.44 | .1507 | .1439 | .1386 | .1343 | .1569 | .1501 | .1448 | .1405 |
| .409 | 5.32 | .674 | .461 | 3.69 | .1482 | .1409 | .1353 | .1307 | .1548 | .1476 | .1419 | .1374 |
| .429 | 4.90 | .738 | .479 | 4.02 | .1478 | .1401 | .1340 | .1292 | .1551 | .1473 | .1413 | .1364 |
| .449 | 4.43 | .811 | .520 | 4.47 | .1462 | .1397 | .1331 | .1278 | .1562 | .1478 | .1411 | .1358 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.94 | .588 | .553 | 4.47 | .1421 | .1335 | .1268 | .1214 | .1501 | .1415 | .1348 | .1294 |
| .409 | 4.45 | .726 | .478 | 4.72 | .1452 | .1362 | .1292 | .1236 | .1537 | .1447 | .1377 | .1321 |
| .429 | 4.01 | .788 | .514 | 5.17 | .1445 | .1349 | .1273 | .1217 | .1538 | .1442 | .1366 | .1305 |
| .449 | 3.54 | .839 | .567 | 5.65 | .1449 | .1345 | .1263 | .1198 | .1550 | .1447 | .1365 | .1299 |
| .489 | 2.78 | .901 | .621 | 6.17 | .1555 | .1444 | .1356 | .1286 | .1666 | .1555 | .1467 | .1397 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.08 | .618 | .555 | 5.37 | .1377 | .1276 | .1197 | .1134 | .1473 | .1373 | .1293 | .1230 |
| .409 | 3.42 | .788 | .598 | 6.52 | .1415 | .1297 | .1204 | .1129 | .1532 | .1414 | .1321 | .1246 |
| .429 | 3.10 | .836 | .651 | 7.06 | .1430 | .1304 | .1205 | .1125 | .1557 | .1431 | .1332 | .1252 |
| .449 | 2.78 | .869 | .717 | 7.57 | .1465 | .1332 | .1227 | .1143 | .1602 | .1469 | .1363 | .1279 |
| .483 | 2.37 | .922 | .861 | 8.46 | .1663 | .1518 | .1403 | .1310 | .1815 | .1670 | .1555 | .1463 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNV = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 5.05 | .554 | .467 | 3.27 | .1461 | .1375 | .1307 | .1253 | .1541 | .1455 | .1377 | .1333 |
| .403 | 4.60 | .658 | .421 | 3.47 | .1488 | .1397 | .1326 | .1270 | .1572 | .1482 | .1411 | .1355 |
| .443 | 4.27 | .711 | .442 | 3.76 | .1525 | .1429 | .1353 | .1292 | .1617 | .1521 | .1445 | .1384 |
| .483 | 3.87 | .764 | .493 | 4.18 | .1578 | .1473 | .1395 | .1326 | .1681 | .1575 | .1493 | .1426 |

LP/V(1/3) = 0.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.23 | .550 | .525 | 4.13 | .1434 | .1328 | .1245 | .1173 | .1535 | .1429 | .1346 | .1279 |
| .403 | 3.87 | .688 | .440 | 4.36 | .1497 | .1386 | .1299 | .1230 | .1604 | .1493 | .1406 | .1337 |
| .443 | 3.49 | .748 | .472 | 4.79 | .1542 | .1423 | .1329 | .1253 | .1659 | .1540 | .1445 | .1371 |
| .483 | 3.11 | .801 | .520 | 5.27 | .1593 | .1464 | .1362 | .1281 | .1722 | .1593 | .1491 | .1410 |
| .523 | 2.79 | .881 | .565 | 5.85 | .1701 | .1561 | .1450 | .1360 | .1845 | .1704 | .1593 | .1504 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 1.65 | .582 | .516 | 1.97 | .1445 | .1320 | .1222 | .1144 | .1566 | .1442 | .1343 | .1265 |
| .403 | 3.09 | .741 | .562 | 6.07 | .1544 | .1398 | .1282 | .1189 | .1693 | .1546 | .1430 | .1337 |
| .443 | 2.67 | .803 | .591 | 6.52 | .1601 | .1446 | .1323 | .1224 | .1761 | .1605 | .1483 | .1384 |
| .483 | 2.65 | .851 | .616 | 6.96 | .1671 | .1508 | .1378 | .1273 | .1842 | .1678 | .1548 | .1444 |
| .523 | 2.08 | .903 | .739 | 8.03 | .1876 | .1691 | .1547 | .1429 | .2075 | .1891 | .1744 | .1627 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BFX = 4.09

DEADRISL ANGLE = 12.5 DEG

FNV = 4.60

WEIGHT = LIFT (LA, SEA WATER) = 1 0 0 0 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.34 | .550 | .444 | 3.17 | .1484 | .1377 | .1293 | .1226 | .1585 | .1479 | .1395 | .1328 |
| .409 | 3.85 | .661 | .333 | 3.34 | .1554 | .1443 | .1356 | .1286 | .1661 | .1550 | .1463 | .1392 |
| .429 | 3.6- | .712 | .404 | 3.62 | .1606 | .1488 | .1394 | .1319 | .1722 | .1603 | .1510 | .1435 |
| .449 | 3.47 | .761 | .458 | 4.03 | .1609 | .1540 | .1438 | .1355 | .1798 | .1669 | .1566 | .1484 |

LP/V(1/3) = 5.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.77 | .526 | .501 | 3.92 | .1533 | .1405 | .1304 | .1223 | .1659 | .1530 | .1429 | .1348 |
| .409 | 3.31 | .675 | .404 | 4.14 | .1643 | .1509 | .1403 | .1318 | .1776 | .1641 | .1536 | .1451 |
| .429 | 3.10 | .742 | .435 | 4.43 | .1705 | .1559 | .1443 | .1351 | .1852 | .1706 | .1590 | .1497 |
| .449 | 2.91 | .800 | .494 | 5.08 | .1773 | .1614 | .1489 | .1388 | .1936 | .1777 | .1651 | .1550 |
| .449 | 2.53 | .875 | .526 | 5.63 | .1937 | .1764 | .1627 | .1517 | .2117 | .1944 | .1807 | .1697 |

LP/V(1/3) = 6.5 L F (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.13 | .555 | .434 | 4.72 | .1630 | .1479 | .1359 | .1264 | .1781 | .1630 | .1510 | .1414 |
| .409 | 2.82 | .700 | .531 | 5.69 | .1774 | .1598 | .1458 | .1346 | .1956 | .1780 | .1640 | .1528 |
| .429 | 2.02 | .776 | .547 | 6.18 | .1848 | .1659 | .1509 | .1389 | .2046 | .1857 | .1707 | .1587 |
| .449 | 2.42 | .842 | .577 | 6.69 | .1929 | .1728 | .1568 | .1439 | .2143 | .1942 | .1782 | .1653 |
| .449 | 2.01 | .896 | .724 | 7.73 | .2131 | .1905 | .1725 | .1579 | .2378 | .2152 | .1972 | .1827 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.39 DEADRISE ANGLE = 12.5 DEG FNV = 4.50

HEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 23.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT | FOR | DCF=0 | RESISTANCE/LIFT | FOR | DCF=0.0004 | |
|-----------|---------------|----------|----------|-------------|-----------------|-------|-------|-----------------|-------|------------|-------|
| .409 | 3.40 | .668 | .307 | 3.31 | .1685 | .1549 | .1355 | .1819 | .1683 | .1576 | .1489 |
| .429 | 3.23 | .716 | .339 | 3.62 | .1775 | .1629 | .1420 | .1922 | .1775 | .1659 | .1567 |
| .449 | 3.06 | .765 | .423 | 3.92 | .1865 | .1709 | .1505 | .2024 | .1868 | .1744 | .1644 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT | FOR | DCF=0 | RESISTANCE/LIFT | FOR | DCF=0.0004 | |
|-----------|---------------|----------|----------|-------------|-----------------|-------|-------|-----------------|-------|------------|-------|
| .369 | 3.13 | .506 | .431 | 3.74 | .1704 | .1552 | .1335 | .1855 | .1703 | .1583 | .1486 |
| .409 | 2.97 | .675 | .338 | 4.07 | .1833 | .1670 | .1437 | .1998 | .1835 | .1705 | .1602 |
| .429 | 2.84 | .746 | .411 | 4.51 | .1775 | .1634 | .1522 | .2135 | .1957 | .1817 | .1704 |
| .449 | 2.67 | .805 | .450 | 4.95 | .2072 | .1880 | .1605 | .2273 | .2081 | .1928 | .1806 |
| .439 | 2.12 | .875 | .431 | 5.42 | .2201 | .1994 | .1698 | .2420 | .2214 | .2050 | .1918 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT | FOR | DCF=0 | RESISTANCE/LIFT | FOR | DCF=0.0004 | |
|-----------|---------------|----------|----------|-------------|-----------------|-------|-------|-----------------|-------|------------|-------|
| .369 | 2.80 | .543 | .465 | 4.47 | .1874 | .1696 | .1441 | .2055 | .1876 | .1735 | .1622 |
| .409 | 2.55 | .695 | .502 | 5.51 | .2027 | .1815 | .1511 | .2250 | .2037 | .1869 | .1734 |
| .429 | 2.36 | .775 | .517 | 6.02 | .2137 | .1908 | .1582 | .2380 | .2152 | .1971 | .1825 |
| .449 | 2.21 | .841 | .545 | 6.53 | .2255 | .2011 | .1661 | .2519 | .2275 | .2082 | .1926 |
| .439 | 1.90 | .865 | .699 | 7.151 | .2474 | .2201 | .1808 | .2778 | .2505 | .2287 | .2112 |

LP/BPX = 4.09 DEADRISE ANGLE = 12.5 DEG FNV = 5.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.6 137.5 13.7 29.6 63.6 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .409 | 3.00 | .670 | .343 | 3.23 | .1851 | .1690 | .1563 | .1461 | .2012 | .1851 | .1724 | .1622 |
| .429 | 2.89 | .723 | .366 | 3.52 | .1354 | .1781 | .1644 | .1535 | .2129 | .1957 | .1820 | .1710 |
| .449 | 2.78 | .775 | .389 | 3.80 | .2056 | .1872 | .1726 | .1608 | .2246 | .2082 | .1916 | .1799 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 63.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.87 | .488 | .454 | 3.58 | .1926 | .1749 | .1608 | .1495 | .2105 | .1927 | .1787 | .1674 |
| .409 | 2.67 | .674 | .362 | 3.95 | .2067 | .1875 | .1722 | .1619 | .2265 | .2072 | .1920 | .1797 |
| .429 | 2.50 | .750 | .378 | 4.37 | .2188 | .1978 | .1813 | .1679 | .2406 | .2197 | .2031 | .1898 |
| .449 | 2.29 | .811 | .411 | 4.79 | .2311 | .2085 | .1906 | .1762 | .2550 | .2325 | .2146 | .2001 |
| .489 | 1.92 | .874 | .447 | 5.27 | .2475 | .2221 | .2037 | .1881 | .2739 | .2494 | .2300 | .2144 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.49 | .549 | .448 | 4.44 | .2143 | .1928 | .1758 | .1621 | .2365 | .2150 | .1980 | .1843 |
| .409 | 2.26 | .712 | .475 | 5.45 | .2344 | .2090 | .1888 | .1725 | .2616 | .2362 | .2160 | .1998 |
| .429 | 2.11 | .784 | .488 | 5.31 | .2443 | .2172 | .1956 | .1782 | .2739 | .2467 | .2252 | .2078 |
| .449 | 1.96 | .842 | .515 | 6.37 | .2554 | .2266 | .2036 | .1851 | .2872 | .2584 | .2354 | .2169 |
| .489 | 1.79 | .885 | .657 | 7.35 | .2841 | .2517 | .2258 | .2050 | .3208 | .2884 | .2626 | .2417 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09

DEADRISE ANGLE = 12.6 DEG

FNW = 5.50

WEIGHT = LIFT (L9, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .409 | 2.53 | .685 | .317 | 3.19 | .2115 | .1926 | .1776 | .1656 | .2308 | .2119 | .1969 | .1849 |
| .423 | 2.47 | .737 | .343 | 3.43 | .2233 | .2029 | .1868 | .1738 | .2443 | .2240 | .2079 | .1949 |
| .449 | 2.42 | .789 | .359 | 3.79 | .2351 | .2133 | .1960 | .1821 | .2579 | .2362 | .2189 | .2050 |

LP/V(1/3) = 5.0 LP (FT) = 15.0 32.3 79.6 150.0 15.0 32.3 69.6 150.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .367 | 2.68 | .461 | .440 | 3.35 | .2154 | .1955 | .1797 | .1670 | .2357 | .2157 | .2000 | .1873 |
| .409 | 2.34 | .697 | .324 | 3.69 | .2386 | .2161 | .1982 | .1838 | .2621 | .2396 | .2217 | .2073 |
| .429 | 2.19 | .771 | .345 | 4.32 | .2547 | .2301 | .2106 | .1949 | .2808 | .2562 | .2367 | .2210 |
| .443 | 2.04 | .822 | .333 | 4.72 | .2699 | .2434 | .2224 | .2055 | .2984 | .2720 | .2510 | .2340 |
| .433 | 1.73 | .874 | .406 | 5.06 | .2854 | .2575 | .2352 | .2173 | .3160 | .2880 | .2658 | .2479 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .353 | 2.22 | .553 | .429 | 4.36 | .2461 | .2210 | .2012 | .1852 | .2724 | .2474 | .2275 | .2115 |
| .409 | 2.01 | .718 | .447 | 5.34 | .2678 | .2381 | .2146 | .1956 | .3001 | .2705 | .2469 | .2288 |
| .429 | 1.93 | .789 | .463 | 5.80 | .2825 | .2508 | .2255 | .2052 | .3176 | .2858 | .2606 | .2402 |
| .449 | 1.77 | .844 | .494 | 6.26 | .2977 | .2639 | .2371 | .2154 | .3355 | .3017 | .2749 | .2532 |
| .433 | 1.55 | .885 | .434 | 7.22 | .3234 | .2855 | .2552 | .2308 | .3671 | .3292 | .2989 | .2744 |

RESISTANCE DATA SERIES 62 MODEL 4667-1

LP/BPX = 4.09 OEAORISE ANGLE = 12.5 DEG FNP = 6.00

WEIGHT = LIFT (L9, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .409 | 2.34 | .728 | .261 | 3.14 | .2367 | .2149 | .1976 | .187 | .2593 | .2375 | .2202 | .2063 |
| .429 | 2.22 | .770 | .302 | 3.44 | .2452 | .2216 | .2030 | .1880 | .2700 | .2464 | .2278 | .2128 |
| .449 | 2.11 | .812 | .343 | 3.75 | .2537 | .2285 | .2085 | .1924 | .2806 | .2554 | .2354 | .2193 |

LP/V(1/3) = 6.0 LP (FT) = 15.0 32.3 69.6 150.0 15.0 32.3 69.6 150.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.46 | .444 | .426 | 3.23 | .2417 | .2191 | .2011 | .1867 | .2650 | .2423 | .2244 | .2100 |
| .409 | 2.04 | .725 | .250 | 3.68 | .2696 | .2444 | .2245 | .2084 | .2961 | .2709 | .2510 | .2349 |
| .429 | 1.35 | .795 | .291 | 4.15 | .2839 | .2561 | .2341 | .2163 | .3138 | .2860 | .2640 | .2462 |
| .449 | 1.08 | .835 | .357 | 4.61 | .2979 | .2677 | .2436 | .2242 | .3311 | .3008 | .2768 | .2574 |
| .489 | 1.63 | .875 | .371 | 4.92 | .3232 | .2912 | .2658 | .2452 | .3586 | .3266 | .3012 | .2806 |

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.00 | .539 | .411 | 4.29 | .2752 | .2461 | .2231 | .2045 | .3061 | .2770 | .2540 | .2354 |
| .409 | 1.81 | .708 | .416 | 5.11 | .3008 | .2674 | .2409 | .2194 | .3376 | .3042 | .2777 | .2562 |
| .429 | 1.75 | .786 | .436 | 5.62 | .3140 | .2819 | .2532 | .2300 | .3584 | .3223 | .2936 | .2704 |
| .449 | 1.68 | .847 | .472 | 6.13 | .3364 | .2976 | .2667 | .2417 | .3805 | .3417 | .3108 | .2859 |
| .489 | 1.33 | .876 | .510 | 7.05 | .3723 | .3287 | .2940 | .2659 | .4230 | .3795 | .3447 | .3166 |

RESISTANCE DATA

SERIES 62

MODEL 4668

LP/BPX = 5.50

OEAOISE ANGLE = 12.5 DEG

FNV = 1.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 15.4 162.5 16.2 35.0 75.4 162.5

| L | G | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|---|-------|------|-------|---------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | | (DEG) | LP | LP | 3-S-g-- | | | | | | | | |
| .363 | | 2.07 | .957 | .900 | 7.60 | .0510 | .0494 | .0481 | .0470 | .0524 | .0508 | .0495 | .0484 |
| .409 | | 1.12 | .971 | .994 | 7.60 | .0484 | .0466 | .0452 | .0440 | .0499 | .0481 | .0467 | .0456 |
| .429 | | .49 | .981 | 1.000 | 7.69 | .0466 | .0448 | .0434 | .0423 | .0482 | .0464 | .0449 | .0438 |
| .449 | | -2.25 | .993 | 1.000 | 7.62 | .0446 | .0429 | .0415 | .0404 | .0462 | .0444 | .0430 | .0419 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | | 1.58 | .956 | .793 | 7.43 | .0441 | .0427 | .0416 | .0406 | .0474 | .0456 | .0442 | .0431 |
| .409 | | .81 | .968 | .807 | 8.07 | .0433 | .0414 | .0399 | .0387 | .0449 | .0430 | .0415 | .0403 |
| .429 | | .22 | .977 | .886 | 8.13 | .0422 | .0403 | .0388 | .0377 | .0439 | .0420 | .0405 | .0393 |
| .449 | | -.38 | .984 | .899 | 8.08 | .0414 | .0395 | .0380 | .0368 | .0430 | .0411 | .0396 | .0384 |
| .489 | | -1.19 | .988 | .822 | 7.78 | .0403 | .0385 | .0370 | .0359 | 10419 | .0400 | .0386 | .0374 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 67.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .363 | | 1.43 | .952 | .620 | 8.05 | .0428 | .0409 | .0394 | .0382 | .0444 | .0425 | .0410 | .0398 |
| .409 | | .49 | .969 | .639 | 8.14 | .0391 | .0372 | .0356 | .0344 | .0407 | .0388 | .0373 | .0361 |
| .429 | | .02 | .973 | .549 | 8.11 | .0386 | .0367 | .0352 | .0340 | .0402 | .0383 | .0368 | .0356 |
| .449 | | -.42 | .976 | .650 | 7.98 | .0384 | .0365 | .0350 | .0338 | .0399 | .0381 | .0366 | .0354 |
| .499 | | -1.11 | .988 | .650 | 7.98 | .0364 | .0345 | .0331 | .0319 | .0380 | .0361 | .0346 | .0335 |

LP/BPX = 5.30 DEADRISE ANGLE = 12.5 DEG FNV = 1.25

WEIGHT * LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 2.26 | .941 | .797 | 7.22 | .0838 | .0612 | .0791 | .0775 | .0860 | .0834 | .0798 | .0798 |
| .409 | 1.63 | .962 | .865 | 7.18 | .0747 | .0740 | .0720 | .0704 | .0789 | .0763 | .0743 | .0727 |
| .423 | .98 | .972 | 1.000 | 7.38 | .0747 | .0721 | .0700 | .0684 | .0770 | .0744 | .0724 | .0707 |
| .449 | | .983 | | 7.72 | .0739 | .0712 | .0691 | .0674 | .0763 | .0736 | .0715 | .0698 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 (11.2) 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.65 | .943 | .764 | 7.95 | .0727 | .0698 | .0676 | .0659 | .0752 | .0723 | .0701 | .0683 |
| .409 | 1.67 | .958 | .845 | 8.02 | .0671 | .0642 | .0620 | .0603 | .0696 | .0668 | .0645 | .0628 |
| .423 | 1.11 | .969 | .872 | 8.04 | .0664 | .0636 | .0613 | .0596 | .0689 | .0661 | .0639 | .0621 |
| .449 | | .980 | .880 | 8.03 | .0664 | .0636 | .0614 | .0596 | .0689 | .0661 | .0639 | .0621 |
| .459 | -1.46 | .988 | .809 | 7.90 | .0665 | .0637 | .0615 | .0598 | .0690 | .0662 | .0640 | .0623 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 2.20 | .936 | .704 | 9.45 | .0658 | .0628 | .0604 | .0586 | .0684 | .0654 | .0631 | .0612 |
| .409 | 1.12 | .956 | .831 | 8.97 | .0586 | .0555 | .0530 | .0511 | .0614 | .0583 | .0558 | .0539 |
| .429 | .66 | .964 | .712 | 8.31 | .0584 | .0560 | .0537 | .0519 | .0615 | .0586 | .0563 | .0545 |
| .449 | .22 | .970 | .577 | 7.61 | .0604 | .0577 | .0555 | .0539 | .0628 | .0601 | .0579 | .0562 |
| .483 | -1.74 | .988 | .580 | 7.73 | .0626 | .0598 | .0576 | .0559 | .0650 | .0622 | .0601 | .0583 |

LP/8PX = 5.50 OEAORISC ANGLE = 12.5 DEG FNV = 1.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 1b.2 35.0 75.4 162.5 1b.2 35.0 25.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.83 | .912 | .738 | 6.94 | .0984 | .0349 | .0322 | .0900 | .1015 | .0980 | .0953 | .0931 |
| .429 | 2.79 | .943 | .815 | 7.09 | .0903 | .0867 | .0839 | .0817 | .0934 | .0899 | .0871 | .0849 |
| .429 | 2.20 | .958 | .855 | 7.22 | .0889 | .0854 | .0826 | .0803 | .0922 | .0886 | .0858 | .0836 |
| .449 | 1.57 | .972 | .897 | 7.38 | .0858 | .0830 | .0807 | | .0928 | .0891 | .0863 | .0840 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.83 | .912 | .738 | 6.94 | .0865 | .0826 | .0796 | .0772 | .0899 | .0861 | .0831 | .0807 |
| .429 | 2.79 | .943 | .815 | 7.09 | .0812 | .0773 | .0743 | .0719 | .0847 | .0808 | .0778 | .0754 |
| .429 | 2.20 | .958 | .855 | 7.22 | .0809 | .0770 | .0739 | .0715 | .0845 | .0806 | .0775 | .0751 |
| .449 | 1.57 | .972 | .897 | 7.38 | .0822 | .0782 | .0751 | .0725 | .0859 | .0819 | .0788 | .0763 |
| .449 | 1.21 | .985 | .934 | 8.43 | .0892 | .0851 | .0819 | .0794 | .0930 | .0889 | .0857 | .0832 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 107.5 18.7 40.4 87.0 107.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.66 | .913 | .691 | 8.26 | .0806 | .0765 | .0733 | .0708 | .0843 | .0802 | .0770 | .0745 |
| .429 | 1.60 | .949 | .777 | a.70 | .0727 | .0685 | .0651 | .0625 | .0766 | .0724 | .0691 | .0664 |
| .429 | 1.15 | .957 | .827 | 8.90 | .0739 | .0696 | .0662 | .0635 | .0773 | .0736 | .0702 | .0675 |
| .449 | .75 | .963 | .869 | 9.06 | .0769 | .0726 | .0692 | .0664 | .0810 | .0767 | .0732 | .0705 |
| .449 | .65 | .976 | .905 | 9.20 | .0839 | .0795 | .0761 | .0733 | .0881 | .0837 | .0802 | .0775 |

RESISTANCE DATA SERIES 62 MODEL 4668

LP/BFX = 5.50

SLADRISE ANGLE = 12.5 DEG

FNV = 1.75

WEIGHT = LIFT (LB, SLAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 5.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 1.99 | .885 | .716 | 6.40 | .1075 | .1032 | .0999 | .0972 | .1114 | .1071 | .1038 | .1011 |
| .403 | 1.01 | .934 | .730 | 1.92 | .0991 | .0945 | .0903 | .0881 | .1033 | .0988 | .0952 | .0923 |
| .427 | 2.41 | .951 | .521 | 7.12 | .0983 | .0937 | .0900 | .0871 | .1027 | .0980 | .0944 | .0914 |
| .443 | 1.72 | .964 | .557 | 7.29 | .0999 | .0951 | .0914 | .0884 | .1043 | .0996 | .0959 | .0929 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.17 | .900 | .632 | 7.22 | .0971 | .0924 | .0886 | .0856 | .1015 | .0968 | .0930 | .0900 |
| .433 | 2.33 | .934 | .758 | 7.53 | .0922 | .0872 | .0833 | .0801 | .0969 | .0919 | .0880 | .0848 |
| .423 | 1.85 | .943 | .572 | 7.30 | .0927 | .0876 | .0835 | .0803 | .0975 | .0924 | .0884 | .0852 |
| .443 | 0.51 | .962 | .845 | 8.09 | .0950 | .0908 | .0857 | .0824 | .0999 | .0947 | .0906 | .0874 |
| .449 | .51 | .984 | .939 | 8.31 | .1047 | .0994 | .0952 | .0919 | .1097 | .1045 | .1003 | .0970 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.80 | .895 | .647 | 7.84 | .0905 | .0854 | .0814 | .0781 | .0902 | .0862 | .0822 | .0789 |
| .403 | 1.73 | .937 | .740 | 8.46 | .0864 | .0809 | .0767 | .0732 | .0915 | .0861 | .0818 | .0784 |
| .429 | 1.40 | .949 | .735 | 8.65 | .0970 | .0815 | .0771 | .0736 | .0923 | .0868 | .0824 | .0789 |
| .443 | 1.06 | .957 | .827 | 8.81 | .0983 | .0839 | .0795 | .0760 | .0949 | .0893 | .0849 | .0814 |
| .449 | .33 | .971 | .811 | 3.11 | .1004 | .0947 | .0902 | .0865 | .1060 | .1002 | .0957 | .0920 |

RESISTANCE DATA SERIES 6 2 MODEL 466A

LP/VFX = 5.50 DEADRISE ANGLE = 12.5 CLG FNP = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10300 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16. 2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.33 | .846 | .659 | 5.94 | .1185 | .1134 | .1093 | .1061 | .1233 | .1182 | .1141 | .1109 |
| .403 | 3.15 | .921 | .768 | 6.63 | .1082 | .1026 | .0982 | .0946 | .1136 | .1079 | .1035 | .1000 |
| .429 | 2.52 | .944 | .813 | 6.92 | .1087 | .1029 | .0986 | .0948 | .1142 | .1085 | .1039 | .1003 |
| .449 | 1.85 | .958 | .842 | 7.05 | .1129 | .1071 | .1024 | .0987 | .1186 | .1127 | .1081 | .1044 |

LP/V(1/3) = 7.0 LF (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 91.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.36 | .877 | .657 | 6.84 | .1064 | .1006 | .0961 | .0924 | .1119 | .1061 | .1015 | .0979 |
| .403 | 2.48 | .926 | .742 | 7.46 | .1017 | .0958 | .0913 | .0868 | .1077 | .1015 | .0966 | .0927 |
| .429 | 1.96 | .942 | .773 | 7.68 | .1034 | .0971 | .0921 | .0881 | .1096 | .1032 | .0983 | .0943 |
| .449 | 1.44 | .955 | .823 | 7.85 | .1075 | .1011 | .0960 | .0920 | .1138 | .1074 | .1022 | .0982 |
| .489 | .57 | .979 | .875 | 8.09 | .1219 | .1153 | .1102 | .1060 | .1284 | .1218 | .1166 | .1125 |

LP/V(1/3) = 1.5 LP (FT) = 14.7 43.4 97.0 197.5 19.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 2.07 | .877 | .627 | 7.51 | .1005 | .0943 | .0893 | .0854 | .1065 | .1003 | .0953 | .0914 |
| .403 | 1.90 | .935 | .712 | 8.24 | .0973 | .0906 | .0853 | .0810 | .1039 | .0972 | .0920 | .0876 |
| .429 | 1.50 | .945 | .737 | 8.46 | .0990 | .0922 | .0867 | .0824 | .1058 | .0989 | .0935 | .0891 |
| .449 | 1.14 | .951 | .802 | 8.64 | .1028 | .0959 | .0903 | .0859 | .1098 | .1028 | .0973 | .0928 |
| .489 | .42 | .970 | .875 | 3.05 | .1093 | .1036 | .0990 | .0950 | .1238 | .1165 | .1138 | .1062 |

RESISTANCE DATA SERIES 62 MODEL 4666
 LP/BPX = 5.50 DEADRI' ANGLE = 12.5 DEG FNV = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.31 | .716 | .577 | 4.84 | .1411 | .1350 | .1302 | .1263 | .1469 | .1408 | .1360 | .1321 |
| .409 | 3.90 | .866 | .663 | 5.92 | .1311 | .1235 | .1176 | .1128 | .1385 | .1309 | .1250 | .1202 |
| .429 | 3.07 | .912 | .714 | 6.33 | .1312 | .1233 | .1170 | .1119 | .1392 | .1312 | .1249 | .1198 |
| .449 | 2.18 | .939 | .771 | 6.59 | .1348 | .1266 | .1201 | .1149 | .1430 | .1348 | .1283 | .1231 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 61.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.95 | .762 | .659 | 5h3 5.69 | .1257 | .1183 | .1125 | .1079 | .1328 | .1254 | .1189 | .1150 |
| .409 | 2.93 | .888 | .705 | 6.78 | .1257 | .1172 | .1105 | .1051 | .1341 | 1-256 | .1189 | .1135 |
| .429 | 2.23 | .922 | .758 | 7.17 | .1269 | .1190 | .1110 | .1053 | .1359 | .1270 | .1200 | .1143 |
| .449 | 1.55 | .944 | .758 | 7.50 | .1318 | .1226 | .1153 | .1094 | .1412 | .1320 | .1247 | .1188 |
| .489 | .68 | .967 | .890 | 8.01 | .1606 | .1433 | .1371 | .1706 | .1533 | .1471 | | |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 167.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.34 | .764 | .658 | 6.35 | .1232 | .1151 | .1086 | .1035 | .1311 | .1230 | .1166 | .1115 |
| .409 | 2.14 | .908 | .651 | 7.68 | .1234 | .1139 | .1064 | .1004 | .1329 | .1235 | .1160 | .1100 |
| .429 | 1.65 | .93r | .694 | 6.06 | .1258 | .1159 | .1081 | .1019 | .1359 | .1260 | .1182 | .1119 |
| .449 | 1.27 | .944 | .740 | 8.34 | .1313 | .1211 | .1131 | .1067 | .1417 | .1316 | .1235 | .1171 |
| .489 | .53 | .963 | .845 | 8.86 | .1555 | .1449 | .1365 | .1297 | .1666 | .1560 | .1476 | .1408 |

RESISTANCE DATA SERIES 62 MODEL 4660

LP/BPX = 5.50

DEADRISE ANGLE = 12.5 DEG

FNV = 3.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 5.45 | .622 | .500 | 3.80 | .1500 | .1428 | .1371 | .1326 | .1568 | .1496 | .1440 | .1395 | |
| .409 | 4.64 | .705 | .558 | 4.35 | .1432 | .1352 | .1289 | .1238 | .1430 | .1367 | .1316 | .1265 | |
| .429 | 4.09 | .777 | .603 | 4.83 | .1436 | .1348 | .1279 | .1224 | .1523 | .1435 | .1366 | .1311 | |
| .449 | 3.44 | .869 | .657 | 5.47 | .1465 | .1368 | .1291 | .1230 | .1563 | .1466 | .1388 | .1328 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|-------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 4.49 | .553 | .499 | 4.55 | .1420 | .1336 | .1269 | .1216 | .1502 | .1414 | .1351 | .1292 | |
| .409 | 3.71 | .758 | .607 | -5.34 | .1426 | .1321 | .1223 | .1162 | .1491 | .1395 | .1319 | .1258 | |
| .429 | 3.16 | .834 | .651 | 5.96 | .1426 | .1321 | .1237 | .1171 | .1533 | .1428 | .1345 | .1278 | |
| .449 | 2.55 | .8304 | .651 | 6.58 | .1496 | .1382 | .1291 | .1216 | .1615 | .1500 | .1410 | .1337 | |
| .489 | 1.39 | .950 | .790 | 7.43 | .1704 | .1658 | .1559 | .1478 | .1818 | .1792 | .1692 | .1612 | |

LP/V(1/3) = 1.5 LP (FT) = 18.7 40.4 67.0 167.5 18.7 40.4 67.0 167.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 3.68 | .671 | .490 | 5.27 | .1385 | .1289 | .1213 | .1153 | .1480 | .1384 | .1308 | .1247 | |
| .409 | 2.81 | .831 | .572 | 6.65 | .1418 | .1302 | .1210 | .1136 | .1538 | .1422 | .1329 | .1255 | |
| .429 | 2.30 | .884 | .610 | 7.20 | .1465 | .1341 | .1242 | .1163 | .1595 | .1471 | .1372 | .1293 | |
| .449 | 1.82 | .922 | .653 | 7.68 | .1550 | .1419 | .1315 | .1231 | .1688 | .1557 | .1453 | .1369 | |
| .489 | .93 | .950 | .777 | 8.46 | .1804 | .1742 | .1630 | .1539 | .2036 | .1895 | .1782 | .1692 | |

RESISTANCE DATA SERIES 62 MODEL 4668

LP/BPX = 5.50 OEAORISE ANGLE = 12.5 DEG FNV = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 1b.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 4.75 | .821 | .470 | 3.58 | .1523 | .1433 | .1362 | .1305 | .1610 | .1521 | .1450 | .1393 | |
| .409 | 4.35 | .672 | .518 | 4.05 | .1512 | .1412 | .1333 | .1270 | .1611 | .1511 | .1433 | .1369 | |
| .429 | 3.98 | .728 | .550 | 4.42 | .1521 | .1414 | .1330 | .1262 | .1630 | .1523 | .1438 | .1370 | |
| .449 | 3.52 | .798 | .589 | 4.86 | .1541 | .1425 | .1334 | .1260 | .1665 | .1544 | .1453 | .1379 | |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 4.03 | .620 | .461 | 4.22 | .1504 | .1400 | .1318 | .1252 | .1608 | .1503 | .1421 | .1355 | |
| .409 | 3.60 | .707 | .514 | 4.87 | .1525 | .1408 | .1316 | .1241 | .1645 | .1527 | .1435 | .1360 | |
| .429 | 3.23 | .778 | .530 | 5.36 | .1555 | .1428 | .1328 | .1267 | .1686 | .1559 | .1459 | .1378 | |
| .449 | 2.81 | .846 | .538 | 5.85 | .1603 | .1467 | .1359 | .1272 | .1746 | .1610 | .1502 | .1415 | |
| .483 | 2.05 | .915 | .653 | 6.46 | .1770 | .1622 | .1505 | .1411 | .1928 | .1781 | .1663 | .1589 | |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 10.7 40.4 67.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|--|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | | |
| .369 | 3.64 | .616 | .443 | u. 76 | .1512 | .1395 | .1302 | .1228 | .1629 | .1512 | .1419 | .1349 | |
| .409 | 2.83 | .760 | .513 | 5.92 | .151b | .1437 | .1327 | .1238 | .1721 | .1582 | .1472 | .1383 | |
| .429 | 2.54 | .828 | .550 | E. 45 | .1637 | .14ee | .1370 | .1274 | .1795 | .1646 | .1522 | .1432 | |
| .449 | 2.20 | .884 | .587 | 6.91 | .1717 | .1559 | .1434 | .1333 | .1886 | .1728 | .1603 | .1502 | |
| .489 | 1.51 | .929 | .663 | 7.53 | .1934 | .17b5 | .1631 | .1522 | .2119 | .1950 | .1815 | .1707 | |

RESISTANCE DATA SERIES 62 MODEL 4668

LP/BPX = 5.50 OEADRISE ANGLE = 12.5 DEG FNV = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | h i | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.35 | .584 | .436 | 3.37 | .1589 | .1481 | .1395 | .1326 | .1597 | .1589 | .1503 | .1434 |
| .409 | 3.86 | .654 | .490 | 3.85 | .1621 | .1499 | .1403 | .1326 | .1744 | .1622 | .1526 | .1449 |
| .429 | 3.62 | .698 | .509 | 4.15 | .1650 | .1521 | .1419 | .1336 | .1783 | .1654 | .1551 | .1469 |
| .449 | 3.40 | .750 | .543 | 4.48 | .1689 | .1551 | .1442 | .1355 | .1832 | .1695 | .1586 | .1498 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.74 | .601 | .430 | 3.96 | .1613 | .1488 | .1389 | .1310 | .1740 | .1615 | .1516 | .1436 |
| .409 | 3.33 | .680 | .475 | 4.56 | .1679 | .1538 | .1427 | .1337 | .1825 | .1684 | .1572 | .1483 |
| .429 | 3.07 | .737 | .506 | 4.96 | .1727 | .1576 | .1456 | .1359 | .1886 | .1734 | .1615 | .1518 |
| .449 | 2.60 | .794 | .539 | 5.36 | .1791 | .1629 | .1501 | .1398 | .1963 | .1801 | .1673 | .1570 |
| .489 | 2.22 | .867 | .601 | 6.08 | .1987 | .1809 | .1666 | .1552 | .2182 | .2003 | .1861 | .1746 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.27 | .601 | .414 | 4.46 | .1643 | .1503 | .1393 | .1304 | .1786 | .1646 | .1535 | .1446 |
| .409 | 2.79 | .715 | .475 | 5.42 | .1784 | .1620 | .1489 | .1385 | .1957 | .1793 | .1663 | .1558 |
| .429 | 2.52 | .780 | .502 | 5.91 | .1866 | .1690 | .1550 | .1437 | .2055 | .1879 | .1739 | .1626 |
| .449 | 2.25 | .838 | .529 | 6.36 | .1959 | .1772 | .1623 | .1503 | .2162 | .1975 | .1826 | .1706 |
| .489 | 1.76 | .904 | .592 | 7.04 | .2185 | .1981 | .1819 | .1689 | .2410 | .2207 | .2045 | .1914 |

RESISTANCE DATA SERIES 62 MODEL 4668

LP/BPX = 5.50

DEADRISE ANGLE = 12.5 DEG

FNW = 4.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.74 | .577 | .423 | 3.29 | .1670 | .1539 | .1435 | .1351 | .1803 | .1672 | .1568 | .1484 |
| .409 | 3.44 | .641 | .459 | 3.70 | .1732 | .1586 | .1472 | .1379 | .1881 | .1736 | .1621 | .1529 |
| .423 | 3.23 | .686 | .482 | 3.90 | .1786 | .1632 | .1510 | .1412 | .1947 | .1793 | .1671 | .1573 |
| .449 | 2.98 | .740 | .509 | 3.30 | .1857 | .1693 | .1563 | .1458 | .2031 | .1867 | .1737 | .1632 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.28 | .622 | .411 | 3.84 | .1754 | .1603 | .1483 | .1387 | .1903 | .1758 | .1639 | .1543 |
| .409 | 2.94 | .666 | .430 | 4.37 | .1841 | .1673 | .1540 | .1432 | .2018 | .1850 | .1716 | .1609 |
| .429 | 2.73 | .723 | .475 | 4.75 | .1916 | .1736 | .1593 | .1476 | .2108 | .1920 | .1785 | .1670 |
| .449 | 2.52 | .779 | .500 | 5.14 | .2014 | .1822 | .1670 | .1547 | .2222 | .2030 | .1878 | .1755 |
| .499 | 2.11 | .853 | .548 | 5.72 | .2282 | .2072 | .1905 | .1771 | .2514 | .2304 | .2137 | .2002 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 107.5 18.7 40.4 87.0 107.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.94 | .600 | .396 | 4.31 | .1851 | .1683 | .1550 | .1443 | .2026 | .1858 | .1725 | .1618 |
| .419 | 2.49 | .701 | .431 | 5.16 | .2024 | .1829 | .1675 | .1550 | .2233 | .2038 | .1884 | .1759 |
| .429 | 2.30 | .760 | .469 | 5.62 | .2102 | .1893 | .1728 | .1594 | .2329 | .2121 | .1955 | .1821 |
| .443 | 2.12 | .815 | .492 | 6.05 | .2196 | .1974 | .1798 | .1659 | .2441 | .2219 | .2043 | .1900 |
| .439 | 1.74 | .885 | .513 | 6.75 | .2500 | .2255 | .2061 | .1904 | .2773 | .2528 | .2334 | .2177 |

RESISTANCE DATA SERIES 62 MODEL 4660

LP/8PX = 5.50 DEADRISE ANGLE = 12.5 DEG FNV = 5.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 25.4 162.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .309 | 3.38 | .577 | .399 | 3.20 | .1830 | .1675 | .1552 | .1453 | .1990 | .1835 | .1712 | .1613 |
| .439 | 2.99 | .642 | .441 | 3.64 | .1928 | .1755 | .1612 | .1507 | .2110 | .1937 | .1799 | .1689 |
| .429 | 2.83 | .683 | .462 | 3.90 | .1984 | .1801 | .1650 | .1539 | .2179 | .1996 | .1851 | .1734 |
| .449 | 2.69 | .730 | .494 | 4.19 | .2046 | .1852 | .1698 | .1574 | .2256 | .2061 | .1907 | .1783 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 2.95 | .595 | .396 | 3.73 | .1957 | .1779 | .1638 | .1524 | .2143 | .1965 | .1824 | .1710 |
| .409 | 2.62 | .665 | .424 | 4.25 | .2071 | .1872 | .1715 | .1588 | .2283 | .2084 | .1927 | .1800 |
| .423 | 2.47 | .716 | .450 | 4.61 | .2149 | .1937 | .1768 | .1632 | .2380 | .2167 | .1999 | .1863 |
| .449 | 2.32 | .766 | .475 | 4.96 | .2249 | .2023 | .1844 | .1699 | .2497 | .2271 | .2092 | .1947 |
| .449 | 2.01 | .830 | .514 | 5.44 | .2526 | .2283 | .2089 | .1932 | .2798 | .2555 | .2361 | .2204 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 2.66 | .600 | .350 | 4.19 | .2055 | .1857 | .1700 | .1574 | .2264 | .2066 | .1909 | .1783 |
| .409 | 2.26 | .696 | .417 | 4.04 | .2246 | .2019 | .1839 | .1693 | .2493 | .2266 | .2086 | .1940 |
| .429 | 1.13 | .750 | .437 | 5.39 | .2363 | .2119 | .1925 | .1768 | .2632 | .2388 | .2194 | .2038 |
| .443 | 2.01 | .801 | .481 | 6.10 | .2497 | .2237 | .2029 | .1862 | .2788 | .2528 | .2321 | .2154 |
| .439 | 1.70 | .874 | .512 | 6.49 | .2926 | .2541 | .2315 | .2132 | .3150 | .2866 | .2639 | .2456 |

RESISTANCE DATA SERIES 62 MODEL 4666

LP/BPX = 5.50

DEADRISE ANGLE = 12.5 DEG

FNW = 5.50

WEIGHT = LIFT (L9, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 6.5 LP (FT) = 16.2 35.0 75.4 162.5 16.2 35.0 75.4 162.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .409 | 2.71 | .646 | .414 | 3.55 | .2136 | .1935 | .1776 | .1648 | .2351 | .2150 | .1991 | .1862 |
| .423 | 2.56 | .683 | .416 | 3.79 | .2214 | .2002 | .1833 | .1697 | .2443 | .2231 | .2063 | .1927 |
| .449 | 2.41 | .721 | .459 | 4.03 | .2292 | .2068 | .1891 | .1748 | .2536 | .2312 | .2135 | .1992 |

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .367 | 2.62 | .594 | .361 | 3.62 | .2180 | .1975 | .1811 | .1680 | .2399 | .2193 | .2030 | .1898 |
| .409 | 2.39 | .665 | .400 | 4.14 | .2338 | .2107 | .1908 | .1777 | .2568 | .2358 | .2175 | .2027 |
| .423 | 2.22 | .709 | .425 | 4.47 | .2432 | .2186 | .1991 | .1833 | .2703 | .2457 | .2261 | .2103 |
| .449 | 2.06 | .753 | .450 | 4.78 | .2504 | .2279 | .2072 | .1905 | .2828 | .2588 | .2361 | .2195 |
| .439 | 1.89 | .816 | .438 | 5.09 | .2793 | .2522 | .2305 | .2130 | .3101 | .2829 | .2613 | .2438 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .367 | 2.33 | .599 | .338 | 4.07 | .2317 | .2088 | .1905 | .1759 | .2563 | .2334 | .2151 | .2005 |
| .409 | 2.10 | .695 | .391 | 4.85 | .2582 | .2317 | .2105 | .1935 | .2875 | .2610 | .2399 | .2229 |
| .423 | 1.96 | .742 | .417 | 5.25 | .2697 | .2413 | .2188 | .2036 | .3014 | .2731 | .2505 | .2323 |
| .449 | 1.83 | .787 | .441 | 5.62 | .2822 | .2522 | .2283 | .2090 | .3162 | .2862 | .2623 | .2430 |
| .433 | 1.60 | .861 | .430 | 6.13 | .3168 | .2844 | .2586 | .2377 | .3542 | .3218 | .2960 | .2751 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/BPX = 7.00 OEAORISE ANGLE = 12.5 DEG ENV = 1.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.15 | .968 | 1.000 | 7.63 | .0491 | .0473 | .0453 | .044b | .0507 | .0489 | .a475 | .0463 |
| .403 | 1.05 | .990 | .987 | 7.55 | .0466 | .0429 | .0415 | .0404 | .0461 | .0444 | .a430 | .0419 |
| .429 | .49 | .999 | .988 | 7.36 | .0423 | .0406 | .a393 | .0382 | .0438 | .0421 | .a408 | .0397 |
| .449 | -.07 | 1.000 | 1.000 | 7.14 | .0400 | .0383 | .0370 | .0360 | .0414 | .0397 | .0385 | .0374 |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 167.5 16.7 40.4 87.0 167.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 1.67 | .965 | 1.000 | 8.47 | .0442 | .0423 | .0406 | .0396 | .0459 | .0440 | .0425 | .0413 |
| .409 | .78 | .985 | .992 | 8.03 | .0416 | .0390 | .0383 | .0372 | .0432 | .0414 | .0408 | .0388 |
| .429 | .32 | .995 | .995 | 7.87 | .0393 | .0375 | .0361 | .0350 | .0409 | .0391 | .0376 | .0365 |
| .449 | -.16 | 1.000 | 1.000 | 7.75 | .0363 | .0346 | .0332 | .0321 | .0379 | .0361 | .0347 | .0336 |

LP/V(1/3) = 5.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 1.45 | .960 | 1.000 | 8.64 | .0422 | .0403 | .0387 | .0375 | .0440 | .0420 | .0404 | .0394 |
| .409 | .62 | .980 | .995 | 8.28 | .0391 | .0371 | .0356 | .0343 | .0409 | .0389 | .0373 | .0361 |
| .429 | .22 | .989 | .999 | 8.74 | .0367 | .0348 | .0332 | .0320 | .0385 | .0365 | .a350 | .0337 |
| .449 | -.17 | .996 | .996 | 8.65 | .0347 | .0328 | .0313 | .0301 | .0365 | .0345 | .0330 | .0318 |
| .489 | -.81 | 1.000 | 1.000 | 8.49 | .0347 | .0328 | .0313 | .0301 | .0364 | .0345 | .0330 | .0318 |

LP/V(1/3) = 3.5 LP (FT) = 21.2 45.8 96.6 212.5 21.2 45.8 96.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 1.36 | .955 | .967 | 6.53 | .0426 | .0406 | .0391 | .0378 | .0443 | .0423 | .0408 | .0395 |
| .408 | .53 | .976 | .991 | 9.74 | .0370 | .0348 | .0331 | .0317 | .0389 | .0368 | .0350 | .0337 |
| .429 | .19 | .982 | 1.000 | 9.84 | .0356 | .0334 | .0317 | .0303 | .0376 | .0354 | .0337 | .0323 |
| .449 | -.14 | .987 | .967 | 9.77 | .0348 | .0327 | .0310 | .0296 | .0368 | .0346 | .0329 | .0316 |
| .489 | -.80 | .937 | .937 | 3.56 | .0339 | .0317 | .0301 | .0291 | .0358 | .0320 | .0304 | .0291 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/SPX = 7.00 DEADRISE ANGLE = 12.5 DEG FNV = 1.25

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.29 | .945 | .926 | 7.58 | .0791 | .0765 | .0744 | .0728 | .0815 | .0768 | .0751 | .0751 |
| .403 | 1.92 | .981 | .977 | 7.95 | .0734 | .0706 | .0685 | .0668 | .0731 | .0710 | .0692 | .0692 |
| .423 | 1.32 | .996 | .935 | 7.83 | .0701 | .0674 | .0653 | .0636 | .0725 | .0698 | .0677 | .0677 |
| .443 | .77 | 1.000 | 1.030 | 7.50 | .0665 | .0639 | .0619 | .0603 | .0688 | .0663 | .0642 | .0626 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 2.52 | .947 | .929 | 8.17 | .0649 | .0626 | .0604 | .0588 | .0679 | .0651 | .0611 | .0611 |
| .403 | 1.44 | .978 | .978 | 8.74 | .0649 | .0619 | .0592 | .0577 | .0677 | .0647 | .0623 | .0605 |
| .423 | .92 | .989 | .931 | 8.53 | .0629 | .0600 | .0577 | .0559 | .0656 | .0627 | .0604 | .0586 |
| .443 | .41 | .998 | .938 | 7.98 | .0597 | .0570 | .0549 | .0532 | .0622 | .0595 | .0573 | .0555 |

LP/V(1/3) = 6.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .353 | 2.11 | .946 | .930 | 8.92 | .0608 | .0578 | .0554 | .0535 | .0636 | .0606 | .0582 | .0563 |
| .403 | 1.13 | .972 | .971 | 9.34 | .0591 | .0560 | .0535 | .0516 | .0621 | .0589 | .0564 | .0545 |
| .423 | .65 | .982 | .933 | 9.05 | .0572 | .0541 | .0517 | .0498 | .0600 | .0570 | .0546 | .0526 |
| .443 | .23 | .992 | .932 | 9.75 | .0555 | .0525 | .0502 | .0484 | .0582 | .0553 | .0530 | .0511 |
| .433 | -.54 | 1.000 | 1.000 | 0.57 | .0560 | .0532 | .0509 | .0491 | .0587 | .0559 | .0536 | .0518 |

LP/V(1/3) = 3.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.6 98.6 212.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 1.91 | .943 | .929 | 9.81 | .0637 | .0604 | .0578 | .0558 | .0668 | .0635 | .0609 | .0588 |
| .403 | .92 | .965 | .962 | 9.83 | .0554 | .0521 | .0496 | .0475 | .0585 | .0552 | .0526 | .0506 |
| .423 | .52 | .977 | .976 | 3.79 | .0538 | .0506 | .0480 | .0460 | .0569 | .0536 | .0511 | .0490 |
| .443 | .14 | .987 | .937 | 9.72 | .0533 | .0500 | .0475 | .0455 | .0563 | .0531 | .0505 | .0485 |
| .433 | -.63 | 1.000 | 1.000 | 9.59 | .0530 | .0498 | .0473 | .0453 | .0559 | .0528 | .0503 | .0483 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/3PX = 7.00 DEADRISE ANGLE = 12.5 DEG FNV = 1.50

WEIGHT = LIFT (L3, SEAWATER) = 1000 10000 100000 1080000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 91.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.78 | .923 | .832 | 7.45 | .0966 | .0930 | .0901 | .0878 | .1000 | .0993 | .0935 | .0912 |
| .409 | 2.58 | .963 | .957 | 7.80 | .0881 | .0843 | .0814 | .0790 | .0916 | .0879 | .0849 | .0825 |
| .429 | 2.00 | .976 | .976 | 7.79 | .0858 | .0821 | .0791 | .0768 | .0893 | .0856 | .0826 | .0803 |
| .449 | 1.41 | .983 | .983 | 7.65 | .0848 | .0811 | .0782 | .0759 | .0882 | .0846 | .0817 | .0794 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.05 | .931 | .890 | 8.10 | .0869 | .0830 | .0799 | .0774 | .0906 | .0866 | .0836 | .0811 |
| .409 | 1.99 | .964 | .958 | 8.52 | .0804 | .0763 | .0731 | .0706 | .0842 | .0802 | .0772 | .0744 |
| .429 | 1.50 | .973 | .974 | 8.51 | .0783 | .0743 | .0711 | .0686 | .0821 | .0781 | .0749 | .0724 |
| .449 | 1.04 | .977 | .977 | 8.37 | .0771 | .0731 | .0700 | .0675 | .0808 | .0769 | .0737 | .0713 |

LP/V(1/3) = 9.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.1 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.61 | .930 | .890 | 8.86 | .0824 | .0782 | .0749 | .0722 | .0863 | .0821 | .0788 | .0762 |
| .409 | 1.62 | .961 | .955 | 9.26 | .0749 | .0700 | .0672 | .0645 | .0791 | .0746 | .0714 | .0686 |
| .429 | 1.20 | .969 | .968 | 9.30 | .0731 | .0688 | .0654 | .0626 | .0773 | .0730 | .0698 | .0668 |
| .449 | .83 | .975 | .975 | 9.25 | .0728 | .0685 | .0651 | .0623 | .0769 | .0726 | .0692 | .0665 |
| .489 | .20 | .996 | .996 | 8.92 | .0768 | .0727 | .0694 | .0668 | .0808 | .0767 | .0734 | .0708 |

LP/V(1/3) = 9.5 LP (FT) = 21.2 45.0 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.33 | .925 | .854 | 9.55 | .0820 | .0775 | .0740 | .0712 | .0863 | .0818 | .0783 | .0755 |
| .409 | 1.38 | .958 | .950 | 10.03 | .0712 | .0666 | .0630 | .0600 | .0758 | .0711 | .0675 | .0645 |
| .429 | 1.03 | .967 | .967 | 10.21 | .0704 | .0657 | .0620 | .0590 | .0750 | .0703 | .0666 | .0636 |
| .449 | .72 | .975 | .975 | 10.25 | .0712 | .0665 | .0628 | .0598 | .0758 | .0711 | .0674 | .0644 |
| .489 | .01 | .988 | .988 | 9.63 | .0736 | .0692 | .0657 | .0629 | .0779 | .0735 | .0700 | .0672 |

LP/BPX = 7.10 DEORISE ANGLE = 12.5 DEG FNV = 1.75

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LK/LCG | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.92 | .905 | .849 | 7.16 | .1077 | .1031 | .0995 | .0966 | .1121 | .1075 | .1039 | .1009 |
| .409 | 2.77 | .952 | .938 | 7.60 | .0987 | .0939 | .0901 | .0870 | .1034 | .0986 | .0947 | .0916 |
| .429 | 2.21 | .970 | .965 | 7.66 | .0970 | .0921 | .0883 | .0852 | .1016 | .0968 | .0930 | .0899 |
| .443 | 1.65 | .984 | .979 | 7.60 | .0970 | .0922 | .0884 | .0854 | .1016 | .0968 | .0931 | .0900 |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 187.5

| LK/LCG | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.21 | .912 | .857 | 7.74 | .0971 | .0922 | .0883 | .0852 | .1018 | .0969 | .0931 | .0899 |
| .409 | 2.22 | .951 | .939 | 8.39 | .0927 | .0874 | .0833 | .0799 | .0978 | .0926 | .0884 | .0851 |
| .429 | 1.76 | .966 | .959 | 8.44 | .0911 | .0858 | .0816 | .0783 | .0962 | .0910 | .0868 | .0835 |
| .449 | 1.21 | .978 | .966 | 8.31 | .0899 | .0847 | .0806 | .0773 | .0950 | .0898 | .0857 | .0824 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.6 200.0 20.0 43.1 92.6 200.0

| LK/LCG | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.82 | .912 | .841 | 8.50 | .0934 | .0881 | .0839 | .0805 | .0966 | .0933 | .0899 | .0867 |
| .409 | 1.84 | .949 | .936 | 9.13 | .0883 | .0827 | .0782 | .0747 | .0916 | .0883 | .0848 | .0812 |
| .429 | 1.45 | .963 | .953 | 9.17 | .0865 | .0808 | .0764 | .0728 | .0921 | .0884 | .0848 | .0812 |
| .443 | 1.10 | .973 | .962 | 9.13 | .0862 | .0806 | .0761 | .0726 | .0917 | .0881 | .0847 | .0812 |
| .449 | 0.46 | .985 | .935 | 9.06 | .0933 | .0878 | .0834 | .0799 | .0989 | .0933 | .0889 | .0854 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 96.6 212.5 21.2 45.8 96.6 212.5

| LK/LCG | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.00 | .907 | .816 | 9.40 | .0953 | .0894 | .0848 | .0811 | .1010 | .0952 | .0906 | .0869 |
| .409 | 1.58 | .946 | .931 | 9.86 | .0853 | .0793 | .0745 | .0707 | .0916 | .0853 | .0805 | .0767 |
| .429 | 1.24 | .960 | .953 | 10.04 | .0843 | .0782 | .0734 | .0696 | .0904 | .0843 | .0795 | .0757 |
| .443 | .95 | .969 | .962 | 10.04 | .0851 | .0790 | .0742 | .0704 | .0913 | .0852 | .0804 | .0765 |
| .449 | .34 | .982 | .932 | 10.10 | .0898 | .0837 | .0789 | .0750 | .0960 | .0899 | .0851 | .0812 |

LP/DPX = 7.00 DEADRISE ANGLE = 12.5 DEG FNP = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 11.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 4.04 | .883 | .818 | 6.94 | .1164 | .1106 | .1061 | .1025 | .1219 | .1162 | .1117 | .1080 |
| .409 | 2.03 | .942 | .928 | 7.52 | .1080 | .1019 | .0971 | .0932 | .1140 | .1079 | .1031 | .10992 |
| .429 | 2.26 | .961 | .957 | 7.60 | .1070 | .1009 | .0961 | .0935 | .1131 | .1070 | .1021 | .0983 |
| .449 | 1.71 | .974 | .970 | 7.54 | .1082 | .1021 | .0974 | .0935 | .1142 | .1082 | .1034 | .0996 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 3.23 | .898 | .829 | 7.48 | .1076 | .1016 | .0968 | .0929 | .1136 | .1075 | .1028 | .0989 |
| .409 | 2.28 | .943 | .928 | 8.32 | .1032 | .0965 | .0913 | .0871 | .1098 | .1032 | .0979 | .10937 |
| .429 | 1.81 | .959 | .955 | 1.39 | .1026 | .0960 | .0916 | .0865 | .1093 | .1027 | .0974 | .0932 |
| .449 | 1.37 | .971 | .964 | 8.24 | .1032 | .0967 | .0923 | .0874 | .1098 | .1033 | .0981 | .0940 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 2.89 | .899 | .803 | 8.24 | .1051 | .0985 | .0932 | .0891 | .1117 | .1051 | .0998 | .0956 |
| .409 | 1.94 | .943 | .920 | 9.03 | .1000 | .0928 | .0872 | .0826 | .1071 | .1000 | .0944 | .0899 |
| .429 | 1.53 | .957 | .944 | 9.14 | .0990 | .0918 | .0861 | .0816 | .1063 | .0991 | .0934 | .0889 |
| .449 | 1.17 | .967 | .961 | 9.14 | .0998 | .0927 | .0870 | .0825 | .1071 | .1000 | .0943 | .0898 |
| .483 | .58 | .983 | .983 | 9.10 | .1088 | .1017 | .0961 | .0916 | .1161 | .1090 | .1034 | .0989 |

LP/V(1/3) = 6.5 LP (FT) = 21.2 45.6 98.6 212.5 21.2 45.6 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .369 | 2.67 | .895 | .779 | 9.16 | .1075 | .1002 | .0945 | .0898 | .1148 | .1075 | .1018 | .0972 |
| .409 | 1.72 | .943 | .908 | 9.70 | .1078 | .0902 | .0842 | .0794 | .1055 | .0980 | .0920 | .0872 |
| .429 | 1.36 | .955 | .941 | 9.99 | .0966 | .0889 | .0828 | .0779 | .1046 | .0969 | .0908 | .0859 |
| .449 | 1.04 | .963 | .960 | 10.19 | .0976 | .0897 | .0835 | .0785 | .1057 | .0978 | .0916 | .0866 |
| .483 | .44 | .976 | .976 | 10.09 | .1040 | .0962 | .0901 | .0851 | .1121 | .1043 | .0982 | .10932 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/ØPX = 7.00 DEADRISE ANGLE = 12.5 DEG FNW = 2.50

WEIGHT = LIFT (LØ, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.2 81.2 175.0 17.5 37.2 81.2 175.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .169 | 4.45 | .768 | .742 | 6.18 | .1455 | .1377 | .1316 | .1266 | .1532 | .1454 | .1393 | .1344 |
| .409 | 3.17 | .921 | .874 | 7.33 | .1323 | .1233 | .1161 | .1104 | .1415 | .1325 | .1254 | .1197 |
| .429 | 2.47 | .955 | .923 | 7.56 | .1320 | .1229 | .1157 | .1099 | .1415 | .1324 | .1252 | .1194 |
| .449 | 1.65 | .968 | .951 | 7.44 | .1361 | .1272 | .1201 | .1144 | .1454 | .1365 | .1294 | .1237 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .169 | 5.67 | .836 | .753 | 6.81 | .1343 | .1260 | .1193 | .1140 | .1429 | .1345 | .1279 | .1225 |
| .439 | 2.49 | .929 | .882 | 8.13 | .1280 | .1183 | .1106 | .1044 | .1381 | .1284 | .1207 | .1145 |
| .429 | 1.97 | .954 | .927 | 8.34 | .1288 | .1189 | .1111 | .1048 | .1392 | .1293 | .1215 | .1152 |
| .449 | 1.50 | .965 | .956 | 8.26 | .1324 | .1226 | .1149 | .1086 | .1427 | .1329 | .1252 | .1189 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .169 | 1.07 | .854 | .742 | 7.52 | .1302 | .1211 | .1139 | .1081 | .1396 | .1305 | .1233 | .1175 |
| .409 | 2.07 | .931 | .890 | 8.80 | .1262 | .1159 | .1076 | .1010 | .1372 | .1268 | .1186 | .1120 |
| .429 | 1.65 | .950 | .930 | 9.05 | .1272 | .1166 | .1082 | .1015 | .1386 | .1280 | .1195 | .1128 |
| .449 | 1.29 | .960 | .955 | 9.13 | .1301 | .1194 | .1110 | .1042 | .1415 | .1301 | .1224 | .1156 |
| .439 | .72 | .977 | .975 | 8.98 | .1405 | .1301 | .1218 | .1151 | .1517 | .1413 | .1330 | .1263 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG | TRIM | LK | LC | S | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|------|-------|------|------|--------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| LP | (DEG) | LP | LP | V(2/3) | | | | | | | | |
| .169 | 2.78 | .856 | .722 | 8.29 | .1317 | .1217 | .1138 | .1075 | .1420 | .1321 | .1242 | .1179 |
| .409 | 1.79 | .931 | .898 | 9.44 | .1265 | .1155 | .1068 | .1008 | .1383 | .1273 | .1186 | .1116 |
| .429 | 1.45 | .947 | .934 | 9.82 | .1267 | .1154 | .1064 | .1001 | .1390 | .1276 | .1186 | .1114 |
| .449 | 1.16 | .955 | .951 | 10.05 | .1289 | .1173 | .1081 | .1007 | .1415 | .1299 | .1207 | .1132 |
| .439 | .57 | .970 | .964 | 9.96 | .1394 | .1280 | .1189 | .1116 | .1519 | .1404 | .1313 | .1240 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/BPX = 7.00 DEAD END ANGLE = 12.5 DEG DFNV = 3.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 6.15 | .635 | .644 | 4.04 | .1700 | .1627 | .1569 | .1523 | .1772 | .1694 | .1642 | .1595 |
| .409 | 4.30 | .823 | .758 | 6.16 | .1564 | .1457 | .1373 | .1305 | .1675 | .1568 | .1483 | .1415 |
| .429 | 3.41 | .890 | .831 | 6.97 | .1566 | .1447 | .1353 | .1278 | .1631 | .1573 | .1479 | .1403 |
| .449 | 2.55 | .941 | .914 | 7.62 | .1615 | .1487 | .1386 | .1304 | .1752 | .1624 | .1523 | .1442 |

LP/V(1/3) = 7.5 LP (FT) = 111.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.72 | .683 | .663 | 5.09 | .1568 | .1498 | .1427 | .1370 | .1680 | .1590 | .1519 | .1462 |
| .409 | 3.23 | .877 | .786 | 7.72 | .1521 | .1391 | .1287 | .1204 | .1660 | .1536 | .1426 | .1343 |
| .429 | 2.54 | .927 | .853 | 6.25 | .1549 | .1412 | .1303 | .1215 | .1698 | .1560 | .1451 | .1363 |
| .449 | 1.89 | .947 | .924 | 8.25 | .1617 | .1481 | .1373 | .1286 | .1766 | .1630 | .1522 | .1434 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.88 | .721 | .655 | 6.18 | .1546 | .1439 | .1354 | .1286 | .1657 | .1550 | .1465 | .1397 |
| .409 | 2.54 | .901 | .809 | 8.22 | .1531 | .1385 | .1269 | .1176 | .1690 | .1544 | .1426 | .1334 |
| .429 | 2.03 | .934 | .876 | 9.10 | .1561 | .1412 | .1294 | .1198 | .1725 | .1576 | .1457 | .1362 |
| .449 | 1.59 | .947 | .928 | 3.06 | .1619 | .1472 | .1355 | .1260 | .1781 | .1635 | .1518 | .1423 |
| .489 | .84 | .971 | .960 | (5.06) | .1834 | .1687 | .1571 | .1477 | .1997 | .1850 | .1734 | .1640 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 41.1 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.36 | .750 | .660 | 7.32 | .1559 | .1434 | .1336 | .1256 | .1691 | .1566 | .1467 | .1388 |
| .409 | 2.08 | .910 | .828 | 9.62 | .1586 | .1429 | .1304 | .1204 | .1754 | .1602 | .1477 | .1377 |
| .429 | 1.75 | .936 | .888 | 3.96 | .1582 | .1431 | .1303 | .1200 | .1771 | .1610 | .1482 | .1379 |
| .449 | 1.48 | .944 | .930 | 10.01 | .1621 | .1460 | .1332 | .1229 | .1801 | .1640 | .1512 | .1409 |
| .489 | .71 | .963 | .957 | 10.02 | .1829 | .1669 | .1542 | .1439 | .2010 | .1850 | .1722 | .1619 |

LP/8PX = 7.00 DEADRISE ANGLE- = 12.5 OEG FNV = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 61.2 175.0 17.5 37.7 61.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.87 | .587 | .592 | 3.65 | .1727 | .1639 | .1569 | .1513 | .1816 | .1728 | .1658 | .1602 |
| .409 | 5.01 | .697 | .662 | 4.19 | .1752 | .1554 | .1475 | .1413 | .1755 | .1656 | .1578 | .1515 |
| .429 | 4.48 | .758 | .717 | 4.76 | .1662 | .1551 | .1464 | .1394 | .1778 | .1668 | .1580 | .1510 |
| .449 | 3.88 | .822 | .759 | 5.53 | .1703 | .1577 | .1477 | .1396 | .1838 | .1712 | .1612 | .1531 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.04 | .617 | .601 | 4.36 | .1677 | .1573 | .1491 | .1425 | .1783 | .1680 | .1598 | .1532 |
| .409 | 4.21 | .713 | .670 | 4.90 | .1646 | .1533 | .1443 | .1371 | .1766 | .1653 | .1563 | .1498 |
| .429 | 3.63 | .789 | .726 | 6.00 | .1685 | .1549 | .1441 | .1354 | .1832 | .169b | .1588 | .1510 |
| .449 | 2.94 | .883 | .798 | 7.66 | .1762 | .1592 | .1457 | .1348 | .1950 | .1780 | .1645 | .1535 |

LP/V(1/3) = 6.8 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.44 | .627 | .598 | 5.00 | .1660 | .1543 | .1450 | .1376 | .1782 | .1665 | .1573 | .1498 |
| .409 | 3.46 | .762 | .682 | 6.36 | .1696 | .1552 | .1438 | .1346 | .1852 | .1708 | .1594 | .1501 |
| .429 | 2.87 | .843 | .756 | 7.77 | .1760 | .1588 | .1451 | .1340 | .1950 | .1778 | .1641 | .1531 |
| .449 | 2.23 | .923 | .832 | 9.04 | .1847 | .1650 | .1494 | .1368 | .2068 | .1872 | .1715 | .1589 |
| .489 | 1.41 | .951 | .932 | 9.21 | .2060 | .1863 | .1706 | .1579 | .2286 | .2089 | .1932 | .1805 |

LP/V(1/3) = 6.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.33 | .627 | .590 | 5.65 | .1671 | .1541 | .1439 | .1356 | .1808 | .1678 | .1576 | .1493 |
| .409 | 2.60 | .822 | .695 | 8.35 | .1793 | .1609 | .1462 | .1343 | .1998 | .1813 | .1667 | .1548 |
| .429 | 2.28 | .883 | .780 | 9.30 | .1871 | .1669 | .1509 | .1379 | .2098 | .1897 | .1736 | .1606 |
| .449 | 1.82 | .923 | .861 | 9.92 | .1955 | .1743 | .1574 | .1438 | .2198 | .1986 | .1817 | .1680 |
| .489 | 1.03 | .955 | .936 | 10.10 | .2139 | .1925 | .1755 | .1617 | .2386 | .2173 | .2002 | .1865 |

RESISTANCE DATA SERIES 62 MODEL 4669

LP/BPX = 7.00 DEADRISE ANGLE = 12.5 OLG FNV = 4.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 5.28 | .958 | .564 | 3.44 | .1777 | .1670 | .1585 | .1517 | .1887 | .1780 | .1695 | .1627 |
| .409 | 4.80 | .659 | .623 | 4.03 | .1753 | .1631 | .1534 | .1456 | .1881 | .1759 | .1663 | .1585 |
| .429 | 4.42 | .703 | .651 | 4.27 | .1758 | .1631 | .1529 | .1448 | .1895 | .1767 | .1666 | .1584 |
| .443 | 3.36 | .742 | .702 | 4.49 | .1776 | .1644 | .1539 | .1454 | .1919 | .1787 | .1682 | .1586 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 167.5 18.7 40.4 87.0 167.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.57 | .580 | .565 | 4.05 | .1717 | .1593 | .1495 | .1416 | .1846 | .1722 | .1624 | .1545 |
| .409 | 4.24 | .661 | .623 | 4.64 | .1805 | .1667 | .1557 | .1468 | .1953 | .1815 | .1705 | .1617 |
| .429 | 3.86 | .713 | .663 | 4.93 | .1833 | .1688 | .1572 | .1479 | .1990 | .1845 | .1730 | .1637 |
| .449 | 3.35 | .773 | .709 | 5.23 | .1849 | .1698 | .1578 | .1480 | .2017 | .1865 | .1745 | .1648 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 4.15 | .590 | .560 | 5.63 | .1738 | .1599 | .1488 | .1399 | .1886 | .1747 | .1636 | .1547 |
| .409 | 3.64 | .685 | .626 | 5.40 | .1855 | .1697 | .1571 | .1470 | .2028 | .1870 | .1744 | .1643 |
| .429 | 3.21 | .749 | .666 | 5.99 | .1903 | .1730 | .1593 | .1482 | .2094 | .1921 | .1784 | .1673 |
| .449 | 2.77 | .812 | .711 | 6.60 | .1933 | .1770 | .1620 | .1500 | .2138 | .1961 | .1832 | .1711 |
| .489 | 2.26 | .901 | .817 | 7.61 | .2134 | .1923 | .1755 | .1619 | .2377 | .2166 | .1998 | .1862 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.6 98.6 212.5 21.2 45.6 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .363 | 3.90 | .593 | .552 | 5.18 | .1829 | .1675 | .1552 | .1454 | .1995 | .1841 | .1718 | .1619 |
| .409 | 3.08 | .717 | .630 | 6.27 | .1906 | .1726 | .1582 | .1466 | .2107 | .1926 | .1783 | .1667 |
| .429 | 2.64 | .786 | .667 | 7.34 | .1987 | .1779 | .1613 | .1480 | .2222 | .2014 | .1848 | .1715 |
| .449 | 2.25 | .852 | .712 | 8.41 | .2097 | .1862 | .1675 | .1524 | .2366 | .2131 | .1944 | .1793 |
| .489 | 1.76 | .919 | .859 | 9.52 | .2398 | .2139 | .1881 | .1764 | .2702 | .2443 | .2236 | .2069 |

LP/BPX = 7.00 DEADRISE ANGLE = 12.5 DEG FNV = 4.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000- 1000 10000 100000 1000000

LP/V(1/3) = 7.0 L P (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 61.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.75 | .532 | .539 | 3.26 | .1791 | .1664 | .1564 | .1483 | .1923 | .1796 | .1696 | .1615 |
| .409 | 4.24 | .655 | .595 | 3.90 | .1849 | .1702 | .1585 | .1492 | .2007 | .1860 | .1743 | .1650 |
| .429 | 4.00 | .691 | .627 | 4.16 | .1870 | .1716 | .1593 | .1494 | .2039 | .1884 | .1761 | .1662 |
| .449 | 3.76 | .710 | .662 | 4.38 | .1887 | .1726 | .1598 | .1494 | .2065 | .1903 | .1775 | .1672 |

LP/V(1/3) = 7.5 L P (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 4.19 | .554 | .537 | 3.62 | .1827 | .1681 | .1566 | .1473 | .1981 | .1836 | .1720 | .1627 |
| .409 | 3.75 | .646 | .596 | 4.45 | .1864 | .1765 | .1633 | .1528 | .2109 | .1944 | .1813 | .1708 |
| .429 | 3.50 | .694 | .628 | 4.81 | .1964 | .1788 | .1648 | .1535 | .2158 | .1982 | .1842 | .1729 |
| .449 | 3.23 | .744 | .663 | 5.20 | .1987 | .1798 | .1649 | .1528 | .2197 | .2009 | .1859 | .1738 |

LP/V(1/3) = 8.0 L P (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.65 | .566 | .528 | 4.36 | .1898 | .1734 | .1604 | .1499 | .2074 | .1910 | .1780 | .1675 |
| .409 | 3.32 | .655 | .593 | 5.09 | .2032 | .1846 | .1698 | .1578 | .2238 | .2052 | .1904 | .1784 |
| .429 | 3.04 | .714 | .628 | 5.57 | .2074 | .1873 | .1713 | .1584 | .2281 | .2081 | .1939 | .1810 |
| .449 | 2.79 | .772 | .663 | 6.04 | .2125 | .1906 | .1739 | .1600 | .2369 | .2154 | .1983 | .1845 |
| .489 | 2.47 | .860 | .738 | 6.75 | .2328 | .2093 | .1906 | .1754 | .2601 | .2366 | .2179 | .2027 |

LP/V(1/3) = 8.5 L P (FT) = 21.2 45.8 91.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.65 | .574 | .516 | 4.91 | .2000 | .1818 | .1673 | .1556 | .2199 | .2016 | .1871 | .1755 |
| .409 | 2.94 | .671 | .590 | 5.82 | .2156 | .1946 | .1779 | .1644 | .2392 | .2182 | .2015 | .1880 |
| .429 | 2.68 | .734 | .624 | 6.36 | .2224 | .1998 | .1818 | .1672 | .2482 | .2256 | .2076 | .1930 |
| .449 | 2.45 | .796 | .663 | 6.92 | .2299 | .2057 | .1864 | .1708 | .2579 | .2337 | .2144 | .1988 |
| .489 | 2.05 | .883 | .771 | 7.94 | .2516 | .2245 | .2029 | .1854 | .2838 | .2567 | .2350 | .2175 |

LP/BPX = 7.30

DEADRISE ANGLE = 12.5 DEG

FNV = 5.00

HEIGHT = LIFT (L9, SEAWATER) = 1006 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .369 | 4.34 | .516 | 3.12 | 1.859 | .1711 | .1594 | .1500 | .2015 | .1867 | .1750 | .1656 | |
| .409 | 3.85 | .635 | .576 | 3.74 | .1967 | .1796 | .1660 | .2154 | .1983 | .1847 | .1738 | |
| .429 | 3.67 | .604 | 3.95 | 2.006 | .1828 | .1685 | .1571 | .2025 | .1883 | .1768 | | |
| .449 | 3.55 | .666 | .630 | 4.08 | .2035 | .1851 | .1705 | .2239 | .2055 | .1909 | .1791 | |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 177.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .369 | 3.92 | .531 | .518 | 3.64 | .1919 | .1750 | .1615 | .2101 | .1932 | .1797 | .1689 | |
| .409 | 3.40 | .609 | .578 | 4.18 | .2090 | .1901 | .1750 | .2298 | .2109 | .1959 | 11)3a | |
| .429 | 3.21 | .641 | .604 | 4.44 | .2136 | .1937 | .1779 | .2358 | .2159 | .2000 | .1873 | |
| .449 | 3.07 | .668 | .626 | 4.70 | .2156 | .1947 | .1781 | .2390 | .2182 | .2015 | .1881 | |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .369 | 3.58 | .541 | .509 | 4.15 | .2023 | .1833 | .1682 | .2230 | .2040 | .1889 | .1767 | |
| .409 | 3.05 | .619 | .573 | 4.65 | .2221 | .2004 | .1832 | .2463 | .2247 | .2074 | .1935 | |
| .429 | 2.85 | .658 | .600 | 5.16 | .2299 | .2071 | .1890 | .2557 | .2329 | .2148 | .2001 | |
| .449 | 2.63 | .701 | .625 | 5.48 | .2377 | .2138 | .1947 | .2651 | .2412 | .2221 | .2067 | |
| .489 | 2.40 | .813 | .684 | 6.26 | .2573 | .2306 | .2094 | .2885 | .2619 | .2406 | .2234 | |

LP/V(1/3) = a.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|--|
| .363 | 3.29 | .549 | .495 | 4.66 | .2167 | .1956 | .1788 | .2400 | .2189 | .2021 | .1885 | |
| .409 | 2.77 | .643 | .566 | 5.71 | .2363 | .2112 | .1912 | .2751 | .2648 | .2398 | .2036 | |
| .429 | 2.57 | .694 | .596 | 6.06 | .2529 | .2266 | .2057 | .2832 | .2569 | .2360 | .2190 | |
| .449 | 2.38 | .746 | .626 | 6.39 | .2689 | .2415 | .2196 | .3008 | .2734 | .2516 | .2451 | |
| .489 | 2.06 | .846 | .689 | 7.28 | .2832 | .2528 | .2284 | .3287 | .3196 | .2891 | .2648 | |

RESISTANCE DATA

SERIES 62

MODEL 4669

LP/BPX = 7.00

OEAIRISE ANGLE = 12.5 DEG

FNP = 5.50

WEIGHT = L I F T (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 81.2 175.0 17.5 37.7 81.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.81 | .495 | .439 | 2.96 | .1975 | .1907 | .1674 | .1567 | .2153 | .1986 | .1853 | .1746 |
| .403 | 3.59 | .600 | .552 | 3.53 | .2075 | .1882 | .1728 | .1604 | .2288 | .2095 | .1942 | .1818 |
| .429 | 3.40 | .640 | .592 | 3.73 | .2148 | .1944 | .1781 | .1649 | .2377 | .2172 | .2009 | .1878 |
| .449 | 3.18 | .670 | .611 | 4.02 | .2237 | .2021 | .1850 | .1712 | .2466 | .2264 | .2093 | .1954 |

LP/V(1/3) = 7.5 LP (FT) = 18.7 40.4 87.0 187.5 18.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.42 | .516 | .431 | 3.49 | .2109 | .1915 | .1761 | .1637 | .2320 | .2126 | .1972 | .1848 |
| .409 | 3.13 | .594 | .555 | 4.03 | .2200 | .1982 | .1809 | .1669 | .2443 | .2226 | .2053 | .1913 |
| .429 | 1.39 | .629 | .542 | 4.29 | .2287 | .2058 | .1876 | .1728 | .2546 | .2317 | .2135 | .1987 |
| .449 | 2.86 | .661 | .606 | 4.54 | .2403 | .2162 | .1970 | 11816 | .2677 | .2437 | .2245 | .2090 |

LP/V(1/3) = 8.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| L X LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.16 | .436 | .436 | 4.01 | .2247 | .2028 | .1854 | .1713 | .2490 | .2270 | .2096 | .1955 |
| .409 | 2.83 | .607 | .549 | 4.69 | .2413 | .2163 | .1964 | .1804 | .2622 | .2447 | .2248 | .2087 |
| .429 | 2.69 | .644 | .575 | 4.99 | .2525 | .2263 | .2053 | .1884 | .2826 | .2564 | .2355 | .2185 |
| .449 | 2.54 | .684 | .599 | 5.23 | .2642 | .2366 | .2146 | .1968 | .2961 | .2686 | .2466 | .2288 |
| .483 | 2.21 | .785 | .649 | 5.99 | .2841 | .2536 | .2292 | .2094 | .3203 | .2898 | .2654 | .2456 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.8 98.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.99 | .536 | .478 | 4.52 | .2393 | .2148 | .1954 | .1797 | .2666 | .2422 | .2227 | .2070 |
| .409 | 2.65 | .628 | .541 | 5.27 | .2705 | .2418 | .2189 | .2004 | .3036 | .2749 | .2520 | .2335 |
| .429 | 2.45 | .674 | .566 | 5.84 | .2834 | .2531 | .2289 | .2093 | .3267 | .2984 | .2642 | .2446 |
| .449 | 2.26 | .720 | .592 | 6.13 | .2948 | .2631 | .2377 | .2172 | .3323 | .3005 | .2752 | .2546 |
| .483 | 1.38 | .815 | .648 | 6.90 | .3149 | .2802 | .2526 | .2301 | .3566 | .3220 | .2943 | .2718 |

RESISTANCE DATA SERIES 62 MDEL 4669
 LP/BPX = 7.30 DEADRISE ANGE 12.5 OEG FNV ± 6.00

WEIGHT = LIFT (LB. SEAWATER) 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 7.0 LP (FT) = 17.5 37.7 61.2 175.0 17.5 37.7 61.2 175.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.53 | .495 | .433 | 2.88 | .2100 | .1909 | .1757 | .1635 | .2307 | .2116 | .1965 | .1842 |
| .409 | 3.22 | .574 | .515 | 3.37 | .2260 | .2042 | .1869 | .1729 | .2502 | .2285 | .2112 | .1972 |
| .429 | 3.06 | .614 | .560 | 3.61 | .2351 | .2121 | .1937 | .1789 | .2611 | .2381 | .2197 | .2049 |
| .449 | 2.91 | .656 | .584 | 3.84 | .2450 | .2208 | .2014 | .1858 | .2727 | .2484 | .2280 | .2135 |

LP/V(1/3) = 7.5 LP (FT) = 16.7 40.4 87.0 187.5 16.7 40.4 87.0 187.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 3.16 | .488 | .431 | 3.31 | .2258 | .2041 | .1869 | .1730 | .2497 | .2280 | .2108 | .1968 |
| .409 | 2.94 | .557 | .529 | 3.77 | .2461 | .2220 | .2029 | .1874 | .2733 | .2492 | .2300 | .2145 |
| .429 | 2.70 | .596 | .553 | 4.03 | .2570 | .2315 | .2112 | .1948 | .2860 | .2605 | .2402 | .2238 |
| .449 | 2.59 | .639 | .578 | 4.31 | .2683 | .2413 | .2199 | .2025 | .2993 | .2724 | .2509 | .2335 |

LP/V(1/3) = 9.0 LP (FT) = 20.0 43.1 92.8 200.0 20.0 43.1 92.8 200.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.92 | .500 | .472 | 3.80 | .2424 | .2179 | .1984 | .1827 | .2697 | .2453 | .2258 | .2100 |
| .409 | 2.66 | .574 | .526 | 4.42 | .2683 | .2404 | .2183 | .2003 | .3001 | .2723 | .2501 | .2322 |
| .429 | 2.50 | .616 | .551 | 4.75 | .2806 | .2511 | .2275 | .2085 | .3147 | .2852 | .2617 | .2426 |
| .449 | 2.35 | .661 | .576 | 5.08 | .2921 | .2608 | .2359 | .2157 | .3287 | .2974 | .2725 | .2523 |
| .499 | 2.14 | .762 | .623 | 5.83 | .3118 | .2768 | .2489 | .2262 | .3538 | .3188 | .2908 | .2681 |

LP/V(1/3) = 8.5 LP (FT) = 21.2 45.8 98.6 212.5 21.2 45.6 90.6 212.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .369 | 2.77 | .519 | .461 | 4.33 | .2602 | .2327 | .2108 | .1931 | .2914 | .2638 | .2419 | .2242 |
| .409 | 2.39 | .607 | .525 | 5.26 | .2927 | .2602 | .2343 | .2133 | .3306 | .2980 | .2721 | .2511 |
| .429 | 2.27 | .653 | .552 | 5.67 | .3053 | .2707 | .2430 | .2207 | .3461 | .3115 | .2839 | .2615 |
| .449 | 2.16 | .699 | .575 | 6.06 | .3171 | .2804 | .2511 | .2274 | .3608 | .3242 | .2949 | .2711 |
| .489 | 1.89 | .791 | .614 | 6.95 | .3431 | .3020 | .2691 | .2424 | .3931 | .3520 | .3191 | .2911 |

RESISTANCE DATA DL MODEL 62-A

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 1.00

HEIGHT = LIFT (LG, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 7.33 | .923 | .924 | 5.55 | .1351 | .1336 | .1325 | .1315 | .1362 | .1347 | .1336 | .1327 |
| .353 | 5.62 | .947 | .847 | 5.45 | .1238 | .1223 | .1212 | .1203 | .1249 | .1234 | .1223 | .1214 |
| .376 | 3.57 | .987 | .949 | 4.90 | .1095 | .1082 | .1072 | .1064 | .1105 | .1092 | .1082 | .1074 |
| .415 | .83 | 1.000 | 1.000 | 4.97 | .0975 | .0962 | .0952 | .0944 | .0985 | .0972 | .0962 | .0954 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 5.21 | .914 | .816 | 6.24 | .1113 | .1098 | .1084 | .1074 | .1126 | .1109 | .1097 | .1086 |
| .353 | 3.94 | .939 | .822 | 6.27 | .1043 | .1026 | .1014 | .1004 | .1056 | .1039 | .1026 | .1016 |
| .376 | 2.80 | .964 | .880 | 5.78 | .1043 | .1028 | .1016 | .1007 | .1054 | .1039 | .1027 | .1018 |
| .415 | -.06 | 1.000 | .964 | 5.85 | .0787 | .0772 | .0761 | .0751 | .0799 | .0784 | .0772 | .0763 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 6.47 | .853 | .575 | 6.41 | .1238 | .1221 | .1207 | .1197 | .1251 | .1233 | .1220 | .1210 |
| .333 | 3.69 | .911 | .627 | 6.69 | .0939 | .0920 | .0908 | .0897 | .0935 | .0921 | .0910 | .0910 |
| .353 | 2.73 | .930 | .779 | 6.81 | .0888 | .0871 | .0857 | .0846 | .0902 | .0884 | .0871 | .0860 |
| .376 | 1.99 | .933 | .833 | 6.76 | .0821 | .0804 | .0790 | .0779 | .0834 | .0817 | .0804 | .0804 |
| .415 | .07 | .931 | .924 | 7.02 | .0727 | .0709 | .0696 | .0685 | .0741 | .0724 | .0710 | .0699 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 4.84 | .857 | .648 | 7.66 | .1048 | .1028 | .1012 | .0999 | .1064 | .1044 | .1028 | .1015 |
| .333 | 2.73 | .913 | .612 | 7.78 | .0880 | .0859 | .0844 | .0831 | .0895 | .0875 | .0859 | .0847 |
| .353 | 1.95 | .919 | .674 | 7.55 | .0742 | .0723 | .0707 | .0696 | .0757 | .0738 | .0723 | .0711 |
| .376 | 1.08 | .931 | .736 | 8.05 | .0659 | .0639 | .0623 | .0611 | .0675 | .0655 | .0639 | .0627 |
| .415 | -.33 | .941 | .890 | 6.39 | .0624 | .0604 | .0587 | .0574 | .0641 | .0620 | .0604 | .0591 |

RESISTANCE DATA DL MODEL 62-A

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 1.25

WEIGHT = LIFT (LB, SEAWATER) * 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | RESISTANCE/LIFT FOR DCF=0.0004 |
|--------|------------|-------|-------|----------|---------------------------|--------------------------------|
| .333 | 11.06 | .840 | .706 | 4.99 | .2333 .2312 .2296 .2284 | .2349 .2328 .2312 .2299 |
| .353 | 8.94 | .879 | .701 | 4.98 | .2037 .2016 .2000 .1988 | .2052 .2032 .2016 .2003 |
| .376 | 6.98 | .911 | .809 | 4.93 | .1844 .1824 .1808 .1796 | .1859 .1839 .1824 .1812 |
| .415 | 4.36 | .948 | .876 | 4.79 | .1635 .1616 .1601 .1589 | .1650 .1631 .1616 .1604 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | RESISTANCE/LIFT FOR DCF=0.0004 |
|--------|------------|-------|-------|----------|---------------------------|--------------------------------|
| .333 | 7.85 | .845 | .659 | 5.63 | .1752 .1729 .1711 .1697 | .1770 .1747 .1729 .1715 |
| .353 | 6.60 | .879 | .686 | 5.57 | .1609 .1587 .1570 .1556 | .1627 .1604 .1587 .1573 |
| .376 | 5.07 | .909 | .766 | 5.71 | .1445 .1423 .1405 .1391 | .1463 .1441 .1423 .1409 |
| .415 | 2.75 | .948 | .831 | 5.52 | .1277 .1255 .1238 .1225 | .1294 .1272 .1256 .1242 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | RESISTANCE/LIFT FOR DCF=0.0004 |
|--------|------------|-------|-------|----------|---------------------------|--------------------------------|
| .294 | 8.63 | .745 | .536 | 6.25 | .1731 .1705 .1686 .1670 | .1751 .1725 .1705 .1689 |
| .333 | 5.74 | .846 | .607 | 6.33 | .1330 .1304 .1285 .1269 | .1349 .1324 .1305 .1289 |
| .353 | 4.75 | .884 | .694 | 6.47 | .1265 .1240 .1220 .1205 | .1285 .1260 .1240 .1225 |
| .376 | 3.77 | .910 | .719 | 6.51 | .1160 .1135 .1115 .1100 | .1181 .1155 .1136 .1120 |
| .415 | 1.84 | .964 | .839 | 6.79 | .1039 .1013 .0993 .0977 | .1060 .1034 .1014 .0996 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | RESISTANCE/LIFT FOR DCF=0.0004 |
|--------|------------|-------|-------|----------|---------------------------|--------------------------------|
| .294 | 6.62 | .771 | .506 | 7.09 | .1377 .1349 .1327 .1309 | .1400 .1371 .1349 .1331 |
| .333 | 4.68 | .857 | .598 | 7.58 | .1312 .1283 .1260 .1245 | .1336 .1306 .1283 .1265 |
| .353 | 3.52 | .886 | .640 | 7.70 | .1005 .0975 .0952 .0934 | .1029 .0999 .0976 .0958 |
| .376 | 2.63 | .910 | .678 | 7.62 | .0953 .0924 .0902 .0884 | .0977 .0948 .0925 .0907 |
| .415 | 1.13 | .949 | .802 | 6.12 | .0884 .0853 .0830 .0811 | .0909 .0879 .0855 .0836 |

RESISTANCE DATA

DL MODEL 62-A

LP/8PX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 1.50

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1009 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 12.47 | .766 | .624 | 4.88 | .2589 | .2561 | .2538 | .2521 | .2611 | .2583 | .2560 | .2543 |
| .353 | 9.47 | .839 | .666 | 5.06 | .2144 | .2115 | .2092 | a2074 | .2167 | .2138 | .2115 | .2097 |
| .376 | 7.32 | .891 | .744 | 5.03 | .1845 | .1817 | .1794 | .1777 | .1868 | .1840 | .1817 | .1800 |
| .415 | 4.36 | 1.000 | .823 | 4.83 | .1689 | .1663 | .1643 | .1626 | .1711 | .1685 | .1664 | .1648 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 9.44 | .796 | .597 | 5.42 | .1845 | .1814 | .1790 | .1771 | .1809 | .1838 | .1814 | .1795 |
| .353 | 6.63 | .852 | .642 | 5.50 | .1622 | .1591 | .1567 | .1548 | .1647 | .1616 | .1592 | .1573 |
| .376 | 9.23 | .891 | .710 | 5.97 | .1444 | .1411 | .1385 | .1365 | .1470 | .1438 | .1412 | .1391 |
| .415 | 3.07 | 1.000 | .755 | 5.50 | .1389 | .1359 | .1336 | .1318 | .1414 | .1384 | .1361 | .1342 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 9.58 | .674 | .475 | 5.80 | .1917 | .1883 | .1857 | .1836 | .1943 | .1909 | .1863 | .1862 |
| .333 | 6.00 | .811 | .555 | 6.18 | .1372 | .1337 | .1310 | .1289 | .1399 | .1365 | .1338 | .1317 |
| .353 | 5.06 | .855 | .607 | 6.46 | .1320 | .1285 | .1257 | .1235 | .1350 | .1314 | .1286 | .1264 |
| .376 | 4.06 | .886 | .659 | 6.47 | .1225 | .1189 | .1162 | .1140 | .1254 | .1219 | .1191 | .1169 |
| .415 | 2.36 | .729 | .757 | 6.69 | .1170 | .1133 | .1105 | .1082 | .1200 | .1163 | .1135 | .1112 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.6 137.5 13.7 29.6 63.6 137.5

| LOG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 7.06 | .703 | .455 | 6.65 | .1474 | .1436 | .1407 | .1384 | .1504 | .1466 | .1437 | .1414 |
| .333 | 5.16 | .827 | .607 | 7s 56 | .1374 | .1333 | .1300 | .1275 | .1408 | .1367 | .1334 | .1309 |
| .353 | 3.96 | .861 | .562 | 7.33 | .1087 | .1047 | .1020 | .1000 | .1120 | .1080 | .1049 | .1024 |
| .376 | 3.13 | .883 | .617 | 7.30 | .1050 | .1011 | .0980 | .0956 | .1082 | .1043 | .1013 | .0989 |
| .415 | 1.82 | .814 | .715 | 7. a4 | .1024 | .0983 | .0950 | .0924 | .1060 | .1018 | .0985 | .0959 |

RESISTANCE DATA DL MODEL 62-A

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FWV = 1.75

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0

LP (FT) = 10.0 21.5 46.4 100.0

10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 14.12 | .638 | .531 | 4.29 | .2845 | .2811 | .2785 | .2763 | .2872 | .2837 | .2811 | .2790 |
| .353 | 11.06 | .743 | .584 | 4.91 | .2372 | .2334 | .2305 | .2281 | .2403 | .2364 | .2335 | .2311 |
| .376 | 8.77 | .824 | .666 | 4.89 | .2042 | .2005 | .1976 | .1953 | .2072 | .2035 | .2006 | .1983 |
| .415 | 4.73 | 1.000 | .611 | 5.30 | .1782 | .1744 | .1714 | .1691 | .1814 | .1776 | .1747 | .1723 |

LP/V(1/3) = 4.5

LP (FT) = 11.2 24.2 52.2 112.5

11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 9.69 | .691 | .513 | 5.13 | .2029 | .1989 | .1958 | .1934 | .2060 | .2021 | .1990 | .1965 |
| .353 | 7.53 | .793 | .573 | 5.31 | .1743 | .1704 | .1672 | .1648 | .1776 | .1736 | .1705 | .1680 |
| .376 | 5.78 | .851 | .650 | 5.86 | .1505 | .1462 | .1428 | .1402 | .1541 | .1498 | .1464 | .1438 |
| .415 | 3.20 | 1.000 | .751 | 6.23 | .1468 | .1424 | .1389 | .1361 | .1506 | .1462 | .1427 | .1400 |

LP/V(1/3) = 5.0

LP (FT) = 12.5 26.9 58.0 125.0

12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 10.48 | .565 | .409 | 5.20 | .2051 | .2010 | .1978 | .1953 | .2083 | .2042 | .2010 | .1985 |
| .333 | 6.66 | .756 | .495 | 5.92 | .1478 | .1454 | .1399 | .1372 | .1515 | .1479 | .1436 | .1408 |
| .353 | 5.42 | .823 | .549 | 6.51 | .1359 | .1311 | .1274 | .1244 | .1399 | .1351 | .1314 | .1284 |
| .376 | 4.20 | .872 | .606 | 6.67 | .1252 | .1204 | .1167 | .1137 | .1293 | .1245 | .1208 | .1178 |
| .415 | 2.41 | .791 | .720 | 6.92 | .1261 | .1211 | .1172 | .1141 | .1303 | .1253 | .1214 | .1183 |

LP/V(1/3) = 5.5

LP (FT) = 13.7 29.6 63.8 137.5

13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) LP | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 7.83 | .607 | .398 | 6.10 | .1626 | .1586 | .1542 | .1513 | .1663 | .1616 | .1579 | .1550 |
| .333 | 5.51 | .789 | .495 | 7.48 | .1434 | .1379 | .1336 | .1303 | .1479 | .1425 | .1382 | .1348 |
| .353 | 4.09 | .831 | .512 | 7.35 | .1111 | .1058 | .1016 | .9983 | .1156 | .1103 | .1062 | .1029 |
| .376 | 3.20 | .872 | .560 | 7.36 | .1094 | .1042 | .1001 | .9868 | .1139 | .1087 | .1046 | .1014 |
| .415 | 1.92 | .839 | .665 | 7.86 | .1132 | .1076 | .1033 | .9998 | .1180 | .1124 | .1081 | .1047 |

RESISTANCE DATA

DL MODEL 62-A

LP/BPX = 3.06

OEARISE ANGLE = 12.5 DEG

FNV = 2.00

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0

L P (FT) = 10.0 21.5 46.4 100.0

10 .0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 13.17 | .594 | .477 | 2.23 | .2716 | .2693 | .2675 | .2661 | .2734 | .2711 | .2693 | .2679 |
| .353 | 11.09 | .655 | .526 | 2.66 | .2427 | .2400 | .2379 | .2362 | .2448 | .2421 | .2384 | .2384 |
| .376 | 10.16 | .741 | .577 | 5.12 | .2189 | .2139 | .2099 | .2068 | .2230 | .2180 | .2140 | .2109 |
| .415 | 6.41 | .833 | .703 | 4.94 | .1389 | .1342 | .1305 | .1276 | .2029 | .1982 | .1945 | .1916 |

LP/V(1/3) = 4.5

L P (FT) = 11.2 24.2 52.2 112.5

11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 8.34 | .626 | .452 | 3.25 | .2082 | .2049 | .2024 | .2004 | .2108 | .2075 | .2050 | .2030 |
| .353 | 7.02 | .697 | .515 | 3.96 | .1835 | .1737 | .1766 | .1742 | .1867 | .1828 | .1798 | .1774 |
| .376 | 1.92 | .794 | .569 | 6.36 | .1b40 | .1579 | .1531 | .1494 | .1691 | .1630 | .1582 | .1545 |
| .415 | 1.92 | .880 | .638 | 5.87 | .1b20 | .1566 | .1523 | .1490 | .1667 | .1613 | .1570 | .1537 |

LP/V(1/3) = 5.0

L P (FT) = 12.5 26.9 58.0 125.0

12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 9.36 | .535 | .373 | 3.37 | .1937 | .1902 | .1875 | .1854 | .1964 | .1929 | .1902 | .1881 |
| .333 | 7.16 | .672 | .433 | 5.52 | .1523 | .1469 | .1427 | .1394 | .1567 | .1513 | .1471 | .1438 |
| .353 | 6.13 | .750 | .485 | 1.19 | .1427 | .1368 | .1322 | .1285 | .1477 | .1418 | .1372 | .1335 |
| .376 | 4.84 | .830 | .536 | 6.77 | .1312 | .1249 | .1199 | .1160 | .1366 | .1303 | .1254 | .1214 |
| .415 | 2.92 | .948 | .671 | 7.15 | .1364 | .1299 | .1249 | .1209 | .1421 | .1357 | .1306 | .1266 |

LP/V(1/3) = 5.5

L P (FT) = 13.7 23.6 63.8 137.5

13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 7.43 | .571 | .350 | 5.34 | .1562 | .1529 | .1487 | .1454 | .1625 | .1571 | .1530 | .1497 |
| .333 | 6.05 | .711 | .437 | 7.15 | .1407 | .1419 | .1366 | .1324 | .1545 | .1477 | .1424 | .1382 |
| .353 | 4.51 | .794 | .457 | 7.44 | .1129 | .1060 | .1006 | .0963 | .1189 | .1119 | .1065 | .1022 |
| .376 | 3.49 | .845 | .509 | 7.75 | .1099 | .1029 | .0973 | .0929 | .1161 | .1091 | .1035 | .0991 |
| .415 | 2.11 | .926 | .618 | 8.05 | .1223 | .1152 | .1096 | .1051 | .1288 | .1216 | .1160 | .1115 |

RESISTANCE DATA OL MODEL 62-A

LP/DPX = 3.06

OEADRISE ANGLE = 12.5 DEG

FNV = 2.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 10.15 | .561 | .406 | 2.166 | .2167 | .2125 | .2093 | .2067 | .2200 | .2158 | .2126 | .2100 |
| .353 | 8.89 | .606 | .438 | 2.95 | .2033 | .1987 | .1952 | .1924 | .2070 | .2024 | .1989 | .1960 |
| .376 | 8.54 | .681 | .478 | 3.36 | .1949 | .1898 | .1858 | .1827 | .1991 | .1940 | .1900 | .1869 |
| .415 | 7.54 | .772 | .549 | 3.102 | .1926 | .1882 | .1847 | .1820 | .1964 | .1920 | .1885 | .1857 |

L/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 7.86 | .587 | .380 | 3.29 | .1779 | .1729 | .1690 | .1658 | .1820 | .1770 | .1731 | .1700 |
| .353 | 7.17 | .628 | .412 | 3.63 | .1690 | .1635 | .1592 | .1558 | .1735 | .1681 | .1638 | .1604 |
| .376 | 6.64 | .711 | .490 | 4.04 | .1606 | .1546 | .1500 | .1463 | .1656 | .1597 | .1550 | .1513 |
| .415 | 5.71 | .797 | .532 | 4.11 | .1609 | .1550 | .1504 | .1467 | .1660 | .1601 | .1555 | .1519 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .234 | 17.73 | .6000 | .561 | 16.65 | .4333 | .4115 | .3943 | .3806 | .4541 | .4323 | .4152 | .4014 |
| .333 | 6.08 | .617 | .354 | 3.97 | .1395 | .1336 | .1284 | .1253 | .1445 | .1386 | .1339 | .1303 |
| .353 | 5.68 | .672 | .383 | 4.40 | .1361 | .1296 | .1245 | .1205 | .1416 | .1351 | .1301 | .1260 |
| .376 | 5.14 | .729 | .428 | 4.53 | .1317 | .1252 | .1201 | .1161 | .1374 | .1309 | .1258 | .1217 |
| .415 | 4.22 | .823 | .506 | 6.46 | .1384 | .1294 | .1223 | .1167 | .1465 | .1375 | .1304 | .1248 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 23.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR OCF=0 | | | | RESISTANCE/LIFT FOR OCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .294 | 8.60 | .568 | .336 | 4.54 | .2637 | .2570 | .2517 | .2475 | .2694 | .2627 | .2574 | .2532 |
| .333 | 5.50 | .641 | .349 | 5.05 | .1413 | .1339 | .1282 | .1236 | .1476 | .1402 | .1345 | .1299 |
| .353 | 4.54 | .717 | .366 | 5.64 | .1112 | .1029 | .0963 | .0911 | .1185 | .1102 | .1036 | .0984 |
| .376 | 4.01 | .764 | .409 | 6.12 | .1107 | .1021 | .0954 | .0900 | .1184 | .1098 | .1030 | .0977 |
| .415 | 3.11 | .849 | .431 | 7.78 | .1279 | .1173 | .1100 | .1023 | .1377 | .1270 | .1187 | .1120 |

RESISTANCE DATA QL MODEL 62-h

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNV = 3.00

WEIGHT = LIFT (LR, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 0.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 1.75 | .510 | .376 | 2.63 | .1819 | .1761 | .1716 | .1680 | .1867 | .1808 | .1763 | .1727 |
| .153 | 6.87 | .610 | .397 | 2.59 | .1749 | .1693 | .1649 | .1615 | .1795 | .1740 | .1696 | .1661 |
| .376 | 6.70 | .655 | .429 | 2.92 | .1723 | .1661 | .1613 | .1574 | .1776 | .1714 | .1666 | .1627 |
| .415 | 6.30 | .728 | .452 | 3.12 | .1793 | .1728 | .1677 | .1637 | .1849 | .1784 | .1733 | .1693 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 6.05 | .567 | .342 | 3.22 | .1530 | .1461 | .1407 | .1364 | .1588 | .1519 | .1465 | .1422 |
| .353 | 5.60 | .645 | .363 | 3.28 | .1504 | .1435 | .1381 | .1338 | .1563 | .1494 | .1440 | .1397 |
| .376 | 5.41 | .690 | .393 | 3.67 | .1471 | .1396 | .1336 | .1289 | .1538 | .1462 | .1402 | .1355 |
| .415 | 4.97 | .749 | .427 | 3.93 | .1630 | .1550 | .1488 | .1438 | .1701 | .1621 | .1558 | .1509 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 4.90 | .642 | .297 | 3.63 | .1258 | .1182 | .1119 | .1076 | .1323 | .1247 | .1188 | .1141 |
| .353 | 4.65 | .661 | .329 | 4.08 | .1286 | .1202 | .1137 | .1084 | .1360 | .1276 | .1210 | .1158 |
| .376 | 4.42 | .719 | .360 | 4.45 | .1269 | .1179 | .1109 | .1053 | .1349 | .1259 | .1189 | .1133 |
| .415 | 3.81 | .791 | .424 | 5.02 | .1406 | .1307 | .1229 | .1167 | .1496 | .1397 | .1320 | .1258 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 29.6 63.8 137.5 13.7 29.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 4.59 | .648 | .293 | 4.53 | .1325 | .1233 | .1160 | .1103 | .1407 | .1315 | .1242 | .1184 |
| .353 | 3.91 | .689 | .303 | 4.92 | .1114 | .1015 | .0937 | .0875 | .1203 | .1103 | .1025 | .0963 |
| .376 | 3.61 | .740 | .346 | 5.35 | .1137 | .1032 | .0949 | .0882 | .1234 | .1128 | .1045 | .0979 |
| .415 | 3.04 | .811 | .394 | 6.01 | .1290 | .1174 | .1082 | .1009 | .1288 | .1182 | .1100 | .1037 |

RESISTANCE DATA OL MODEL 62-A

LP/BPX = 3.06

DEADRISE ANGLE = 12.5 DEG

FNW = 3.50

WEIGHT = LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1000 10000 100000 1000000

LP/V(1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 6.67 | .520 | .329 | 2.35 | .2005 | .1936 | .1882 | .1839 | .2062 | .1993 | .1939 | .1896 |
| .353 | 5.92 | .550 | .322 | 2.60 | .1634 | .1558 | .1498 | .1451 | .1698 | .1622 | .1562 | .1515 |
| .376 | 5.54 | .623 | .416 | 2.29 | .1644 | .1580 | .1529 | .1489 | .1701 | .1636 | .1586 | .1545 |
| .415 | 4.36 | .905 | .616 | 3.66 | .1332 | .1237 | .1162 | .1103 | .1421 | .1327 | .1252 | .1192 |

LP/V(1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 5.87 | .528 | .234 | 3.20 | .1698 | .1604 | .1531 | .1472 | .1277 | .1263 | .1209 | .1151 |
| .353 | 5.04 | .581 | .285 | 3.28 | .1531 | .1438 | .1364 | .1306 | .1612 | .1518 | .1445 | .1387 |
| .376 | 4.43 | .690 | .351 | 3.43 | .1436 | .1342 | .1269 | .1210 | .1521 | .1426 | .1353 | .1294 |
| .415 | 2.96 | .983 | .626 | 5.03 | .0868 | .0742 | .0643 | .0564 | .0991 | .0865 | .0766 | .0687 |

LP/V(1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 5.35 | .533 | .173 | 4.14 | .1319 | .1198 | .1104 | .1029 | .1420 | .1299 | .1205 | .1130 |
| .353 | 3.91 | .650 | .270 | 3.89 | .1342 | .1235 | .1151 | .1084 | .1437 | .1330 | .1246 | .1179 |
| .376 | 3.65 | .714 | .299 | 4.23 | .1297 | .1181 | .1091 | .1018 | .1403 | .1287 | .1196 | .1123 |
| .415 | 3.12 | .801 | .371 | 4.80 | .1383 | .1258 | .1159 | .1080 | .1501 | .1375 | .1277 | .1198 |

LP/V(1/3) = 5.5 LP (FT) = 13.7 23.6 63.8 137.5 13.7 23.6 63.8 137.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------|------------|-------|-------|----------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .333 | 5.01 | .536 | .132 | 5.15 | .0859 | .0710 | .0594 | .0501 | .0986 | .0837 | .0720 | .0600 |
| .353 | 3.31 | .690 | .253 | 4.76 | .1169 | .1042 | .0942 | .0861 | .1286 | .1159 | .1058 | .0978 |
| .376 | 3.07 | .736 | .325 | 5.08 | .1268 | .1135 | .1031 | .0956 | .1393 | .1260 | .1155 | .1072 |
| .415 | 2.77 | .777 | .298 | 5.43 | .1366 | .1238 | .1126 | .1037 | .1712 | .1571 | .1459 | .1370 |

RESISTANCE DATA O L MODEL 6 2 - A

LP/BPX = 3.06 DEADRISE ANGLE = 12.5 DEG FNW = 4.00

WEIGHT * LIFT (LB, SEAWATER) = 1000 10000 100000 1000000 1006 10000 100006 1000000

LP/V (1/3) = 4.0 LP (FT) = 10.0 21.5 46.4 100.0 10.0 21.5 46.4 100.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|-----------|---------------|----------|----------|-------------|---------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|
| .415 | 4.51 | .775 | .331 | 3.21 | .1567 | .1435 | .1347 | .1277 | .1649 | .1538 | .1450 | .1380 |

LP/V (1/3) = 4.5 LP (FT) = 11.2 24.2 52.2 112.5 11.2 24.2 52.2 112.5

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------------|--------------|--------------|--------------|---------------------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|
| .376 .415 | 4.25 3.50 | .668 .781 | .122 .344 | 3.37 3.84 | .1661 .1587 | .1536 .1455 | .1439 .1352 | .1361 .1269 | .1768 .1710 | .1644 .1578 | .1547 .1475 | .1469 .1380 |

LP/V (1/3) = 5.0 LP (FT) = 12.5 26.9 58.0 125.0 12.5 26.9 58.0 125.0

| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------------|--------------|--------------|--------------|---------------------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|
| .376 .415 | 3.52 2.85 | .727 .785 | .338 .314 | 3.77 4.57 | .1544 .1641 | .1416 .1488 | .1316 .1367 | .1235 .1270 | .1665 .1788 | .1537 .1634 | .1437 .1513 | .1356 .1416 |

LP/V (1/3) = 5.5 LP (FT) = 13.7 23.6 63.8 137.5 13.7 29rb 63.8 137.5

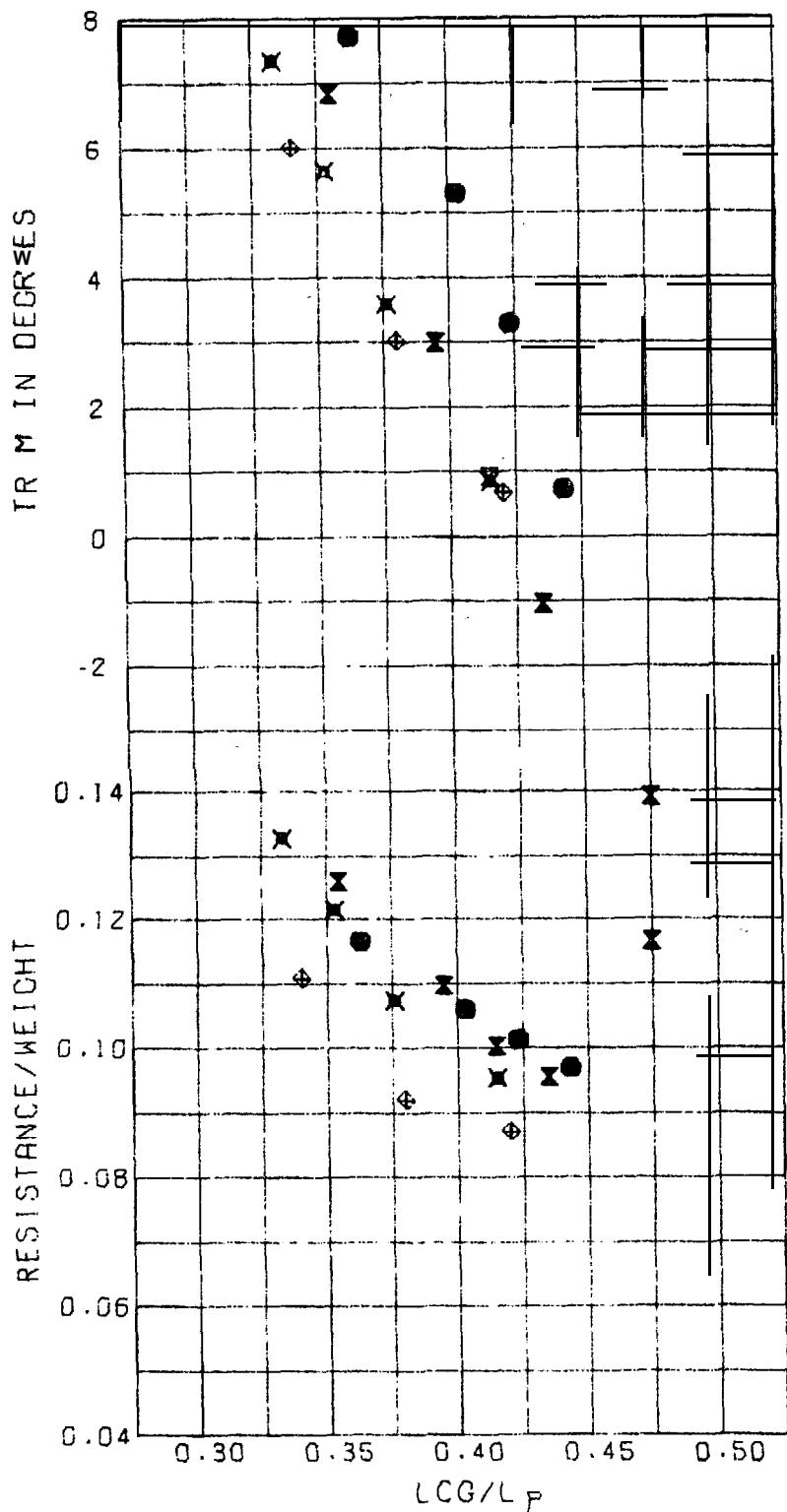
| LCG LP | TRIM (DEG) | LK LP | LC LP | S V(2/3) | RESISTANCE/LIFT FOR DCF=0 | | | | RESISTANCE/LIFT FOR DCF=0.0004 | | | |
|--------------|---------------|--------------|---------------|--------------|---------------------------|----------------|-----------------|----------------|--------------------------------|----------------|----------------|----------------|
| .376 .415 | 2.83 2.42 | .763 .788 | 0.000 .293 | 5.07 5.39 | .1582 .1713 | .1397 .1535 | .1252 0.1394 | .1137 .1282 | .1744 .1885 | .1559 .1707 | .1414 .1567 | .1299 .1454 |

APPENDIX B
GRAPHS OF RESISTANCE-WEIGHT RATIOS AND TRIM ANGLES

Resistance-weight ratios are for a 100,000-pound boat in seawater at a temperature of 59 F with a correlation allowance of 0.

Trim is angle of attack of after portion of planing bottom.

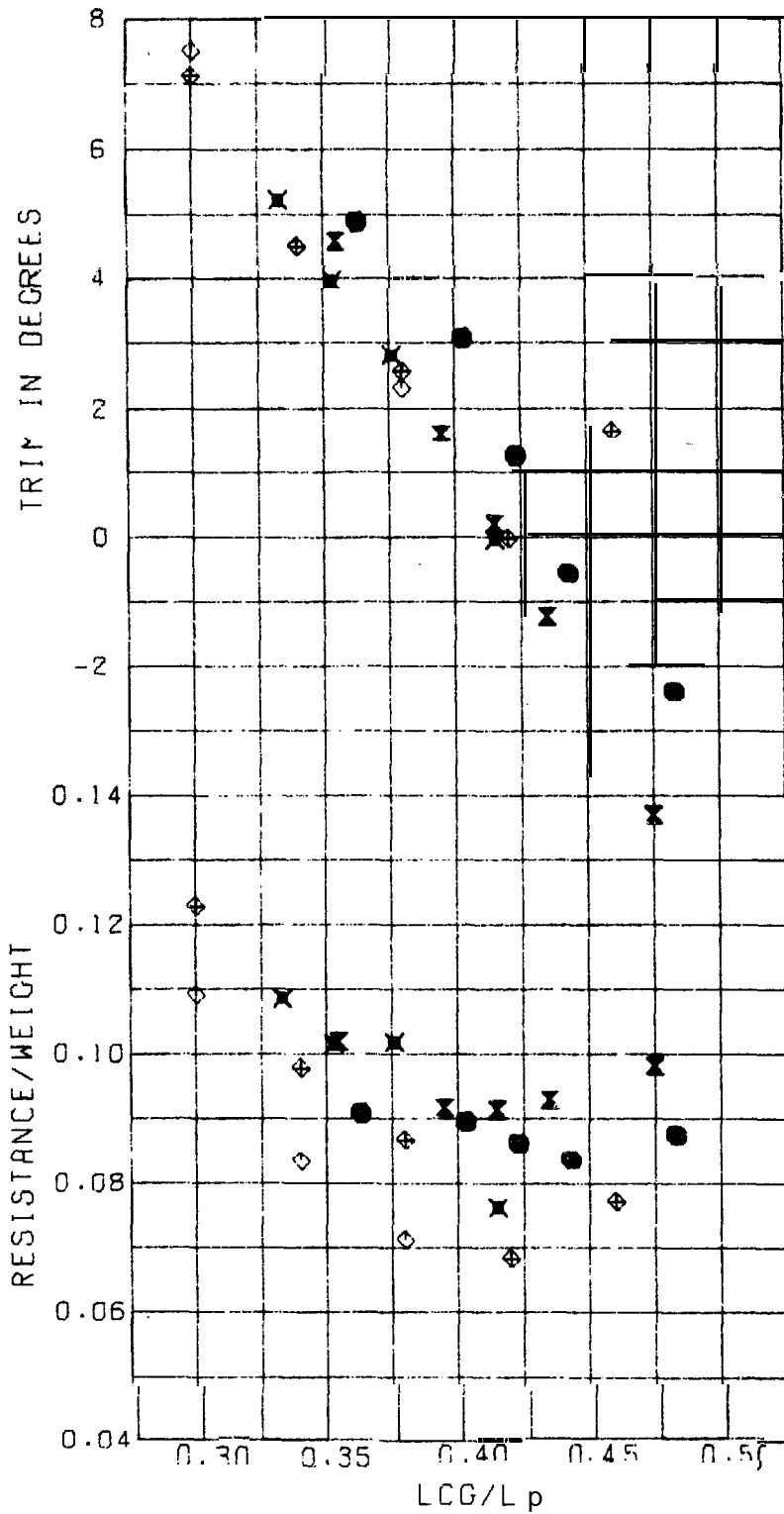
$$L_P/\nabla^{1/3} = 4.0 \quad F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | β / β_T | β_T |
|--------|----------|-------------------|-----------|
| ◊ | 5237 | 2.35 | 16.3 |
| ⊠ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-A3 | 0.6 | 13.0 |

$$L_P/\nabla^{1/3} = 4.5$$

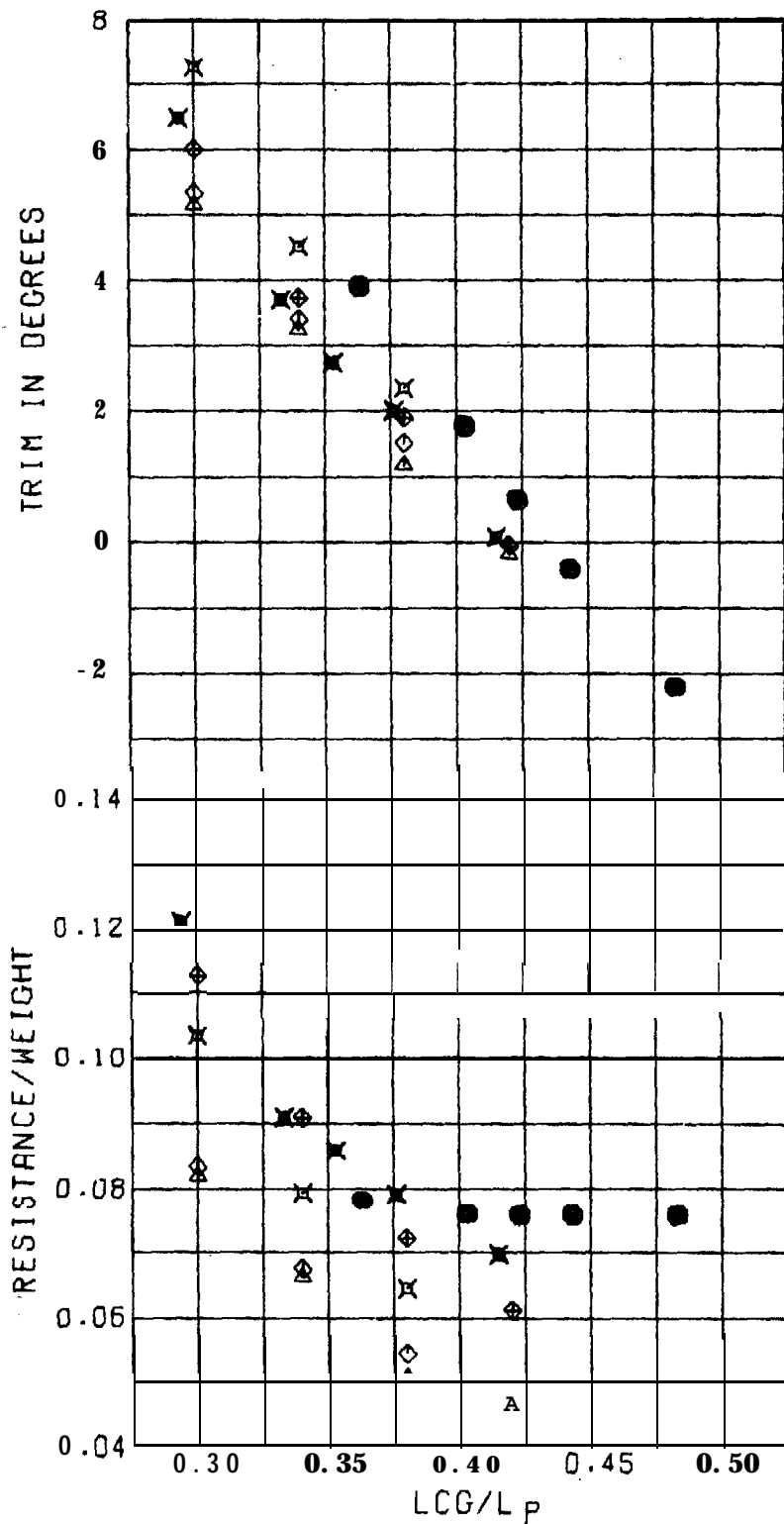
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ⊠ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-G | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.0$$

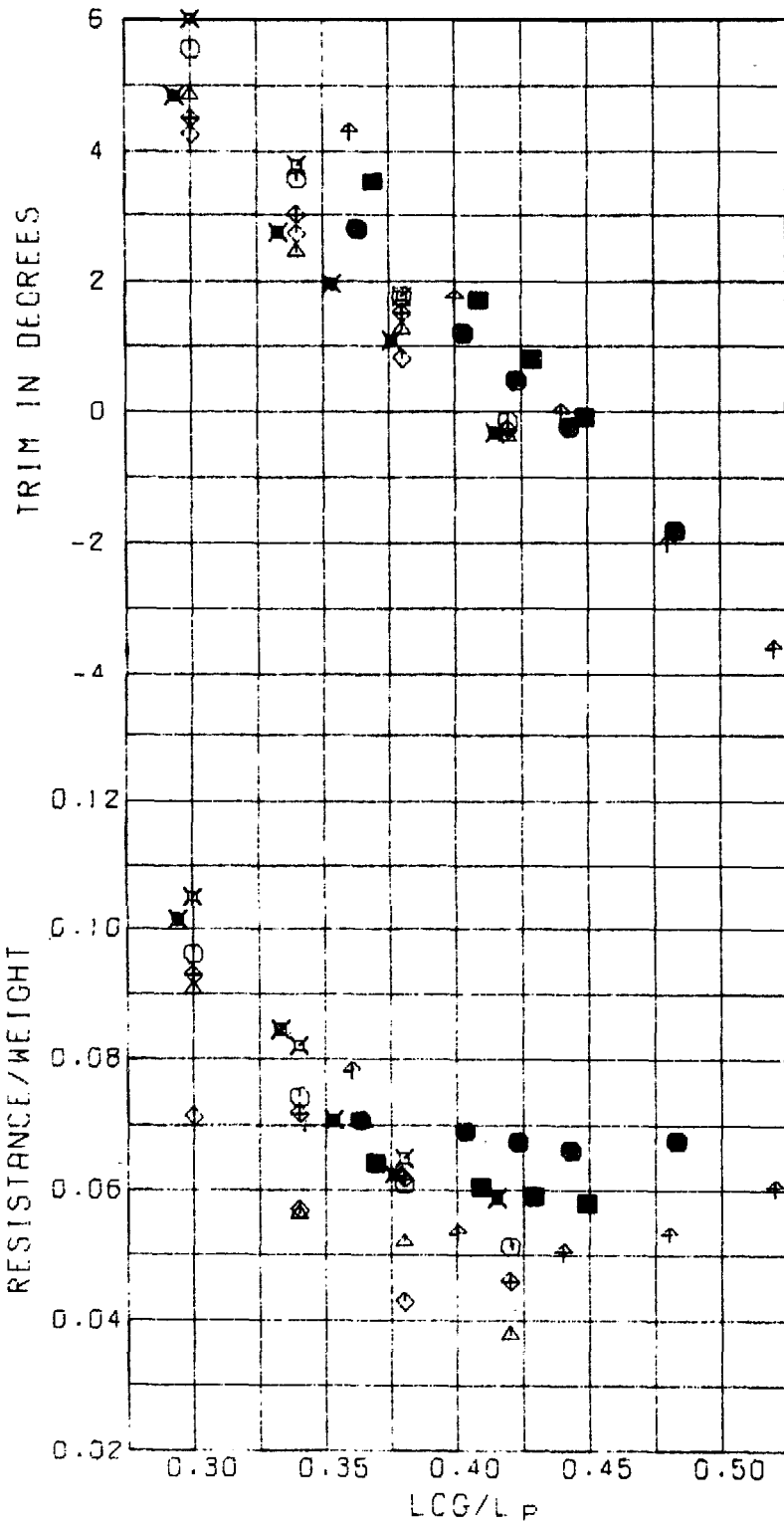
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|------------|--------------|-----------|
| ◆ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⋈ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 6 2 - R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 5.5$$

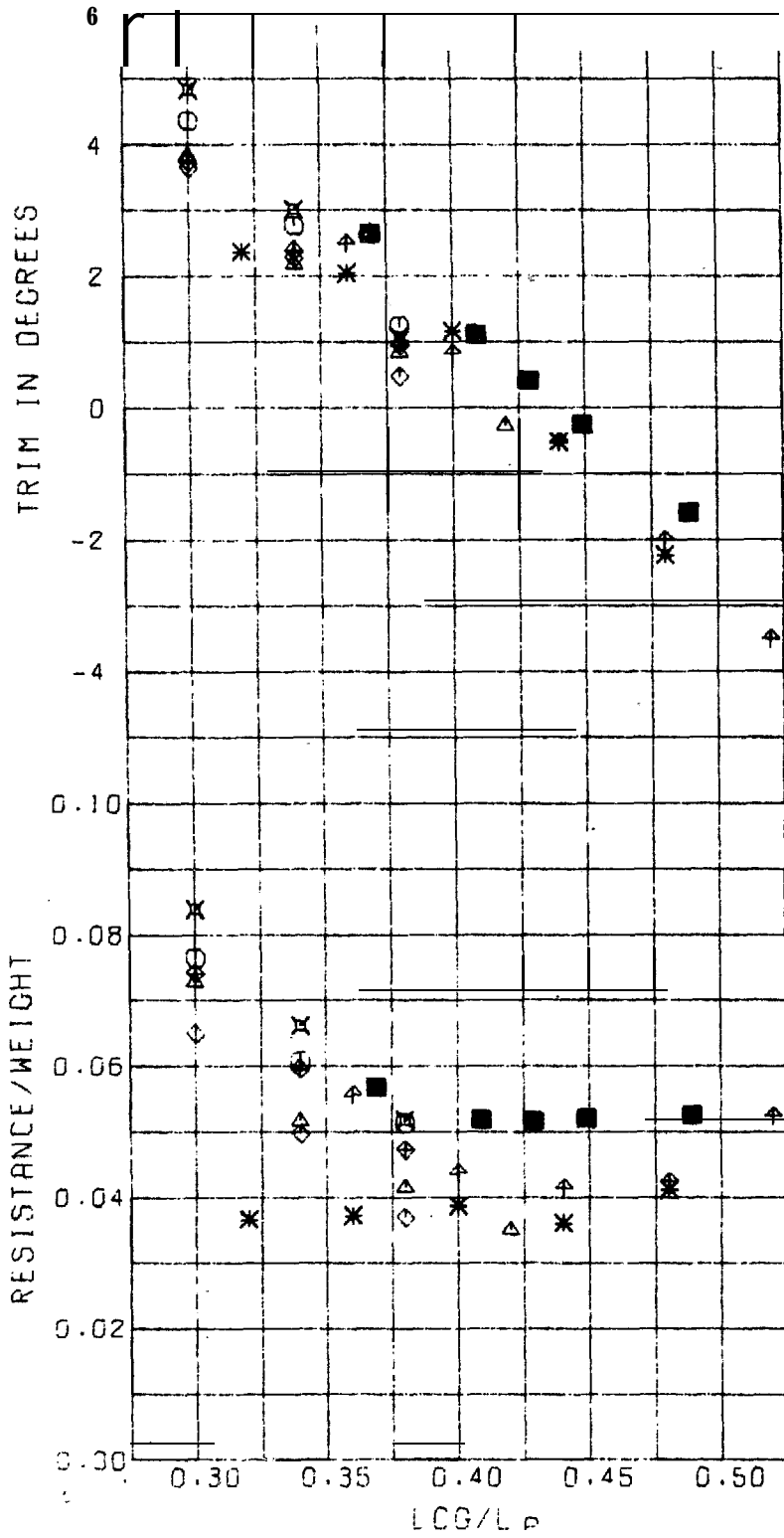
$$F_{N\nabla} = 1.00$$



| SYMBOL | MDEL | L _P /B _{PX} | β _T |
|--------|---------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| ⊕ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ✕ | DL 62-R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 6.0$$

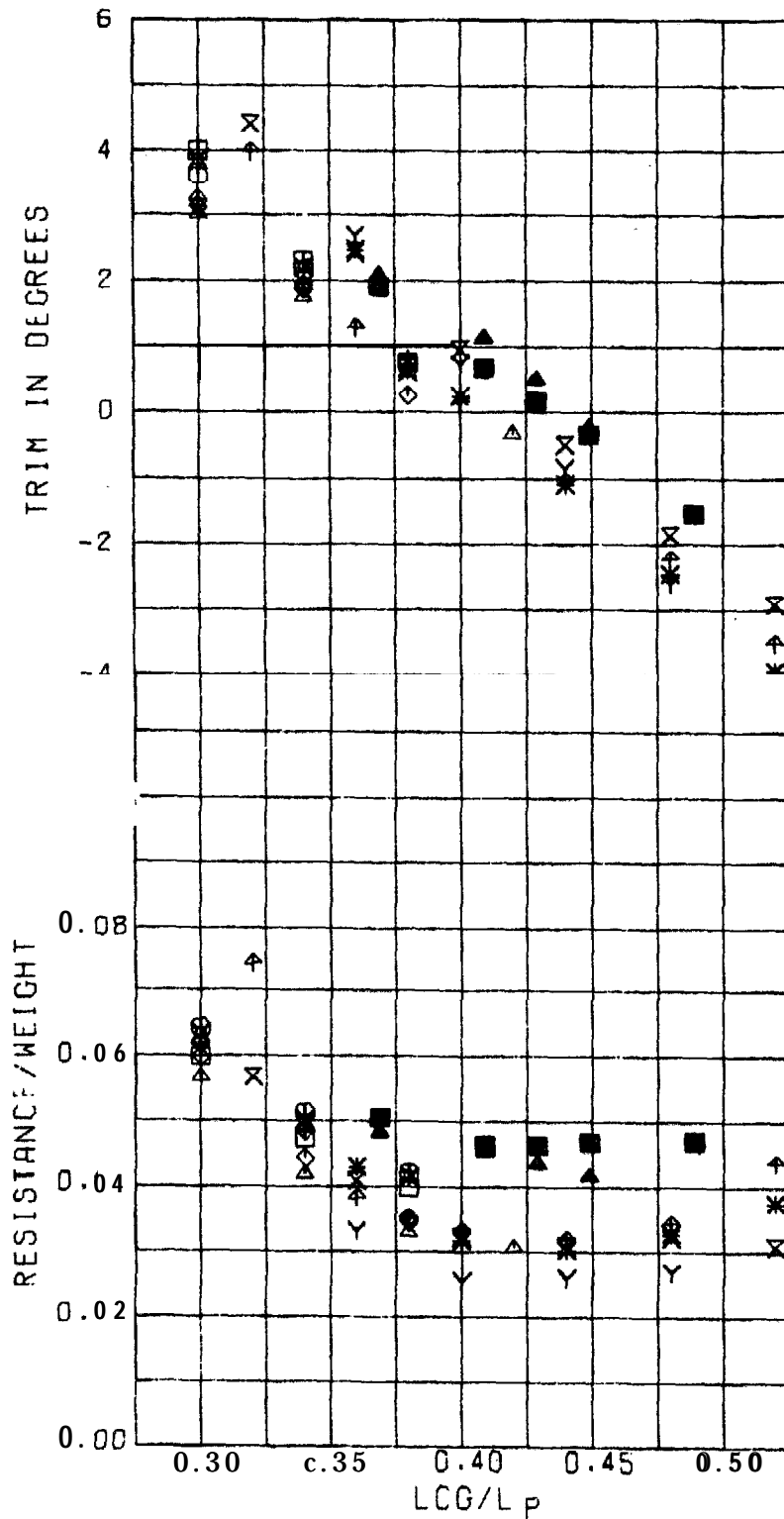
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5134 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

$$L_P/\nabla^{1/3} = 6.5$$

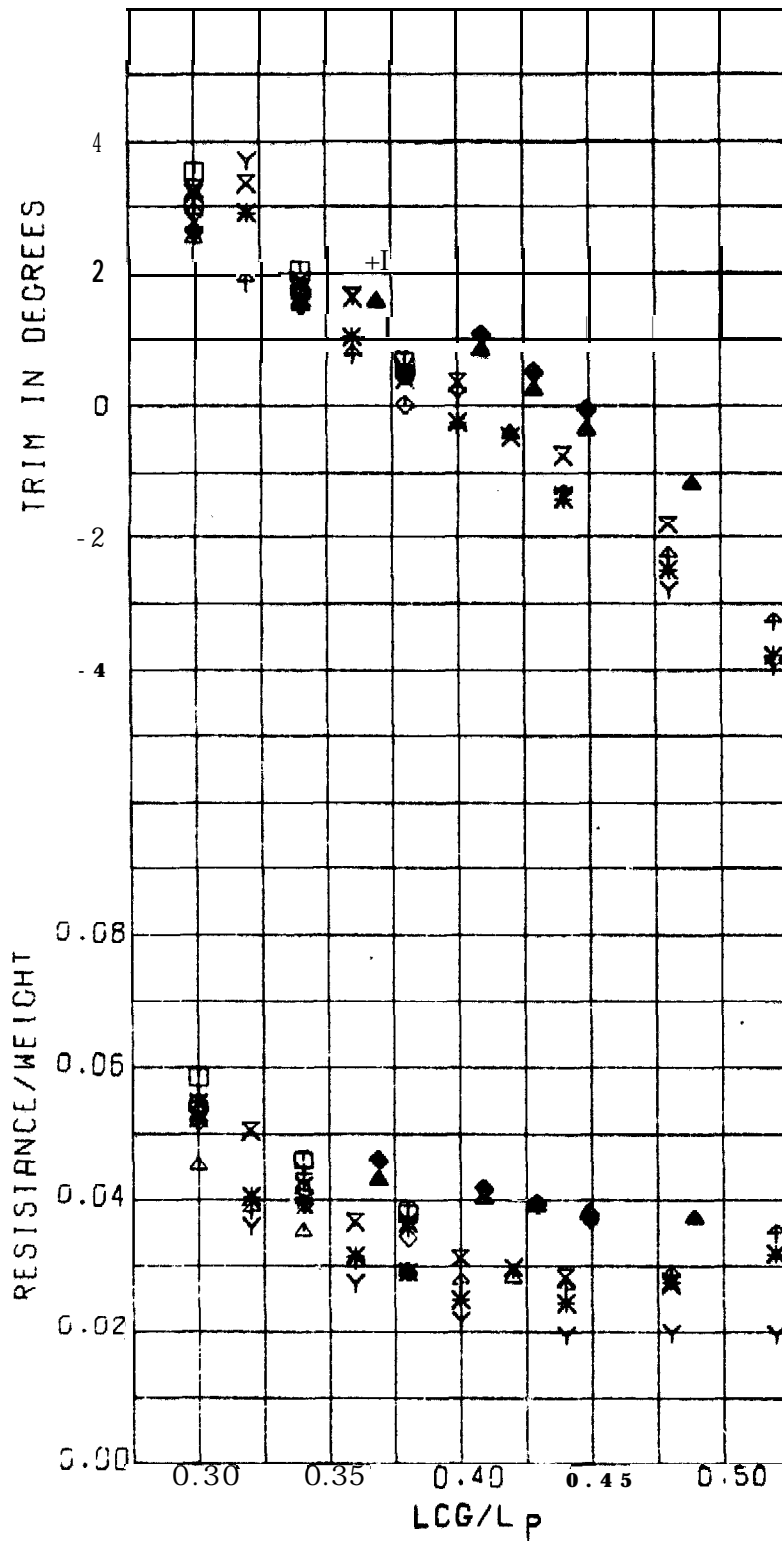
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5166 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5 2 3 6 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_p/\nabla^{1/3} = 7.0$$

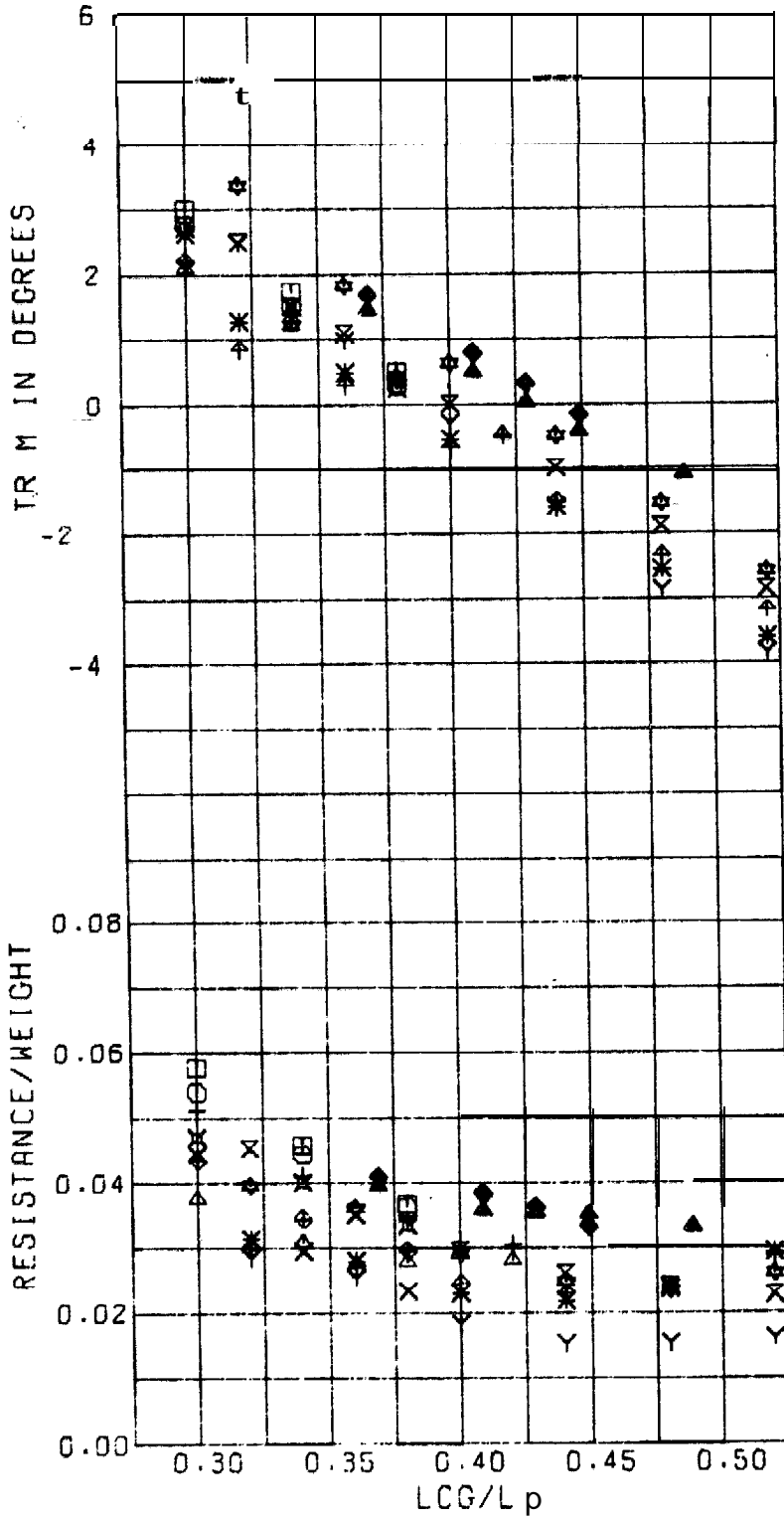
$$F_{N\nabla} = 1.00$$



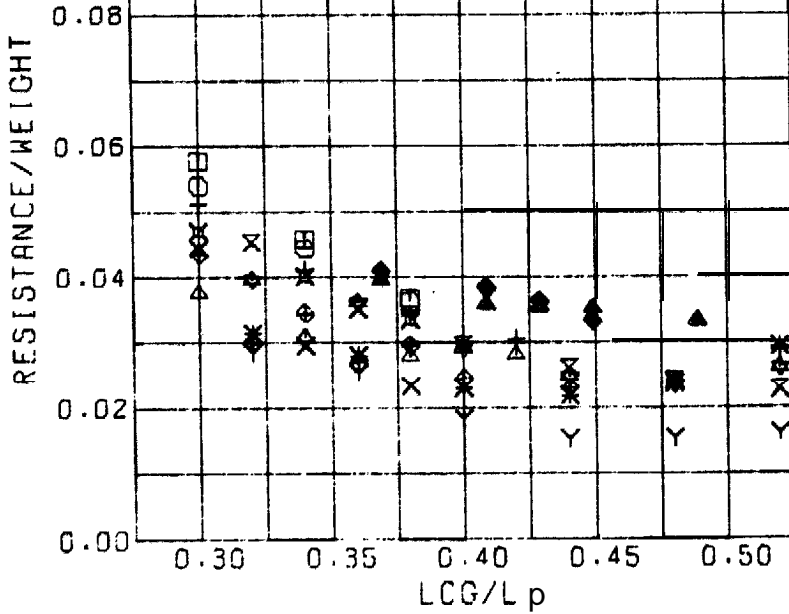
| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|-------|--------------|-------------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.06 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊖ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ● | 4669 | 7.00 | 12.5 |

$$L_P / \nabla^{1/3} = 7.5$$

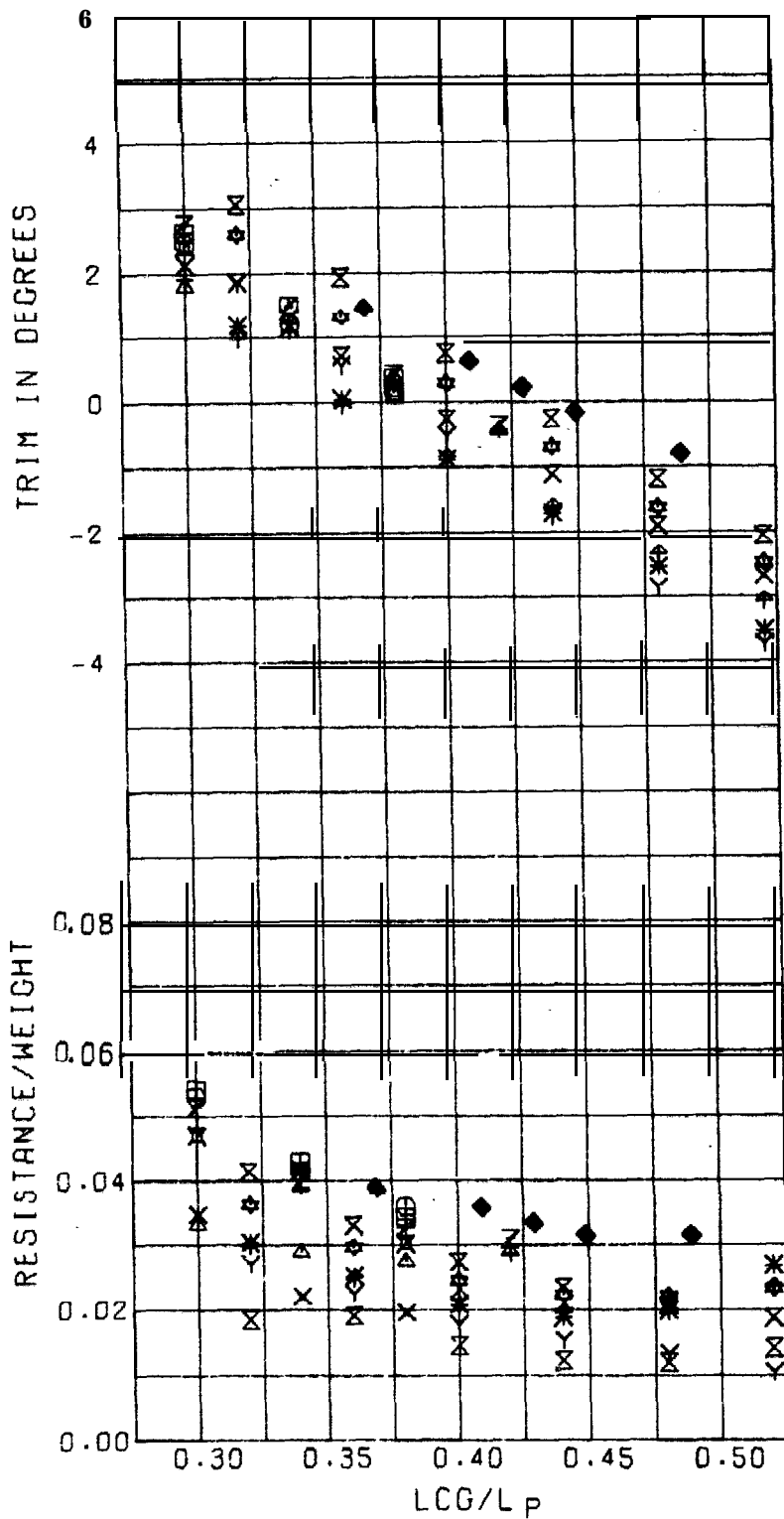
$$F_{N \nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊖ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 3Q.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |



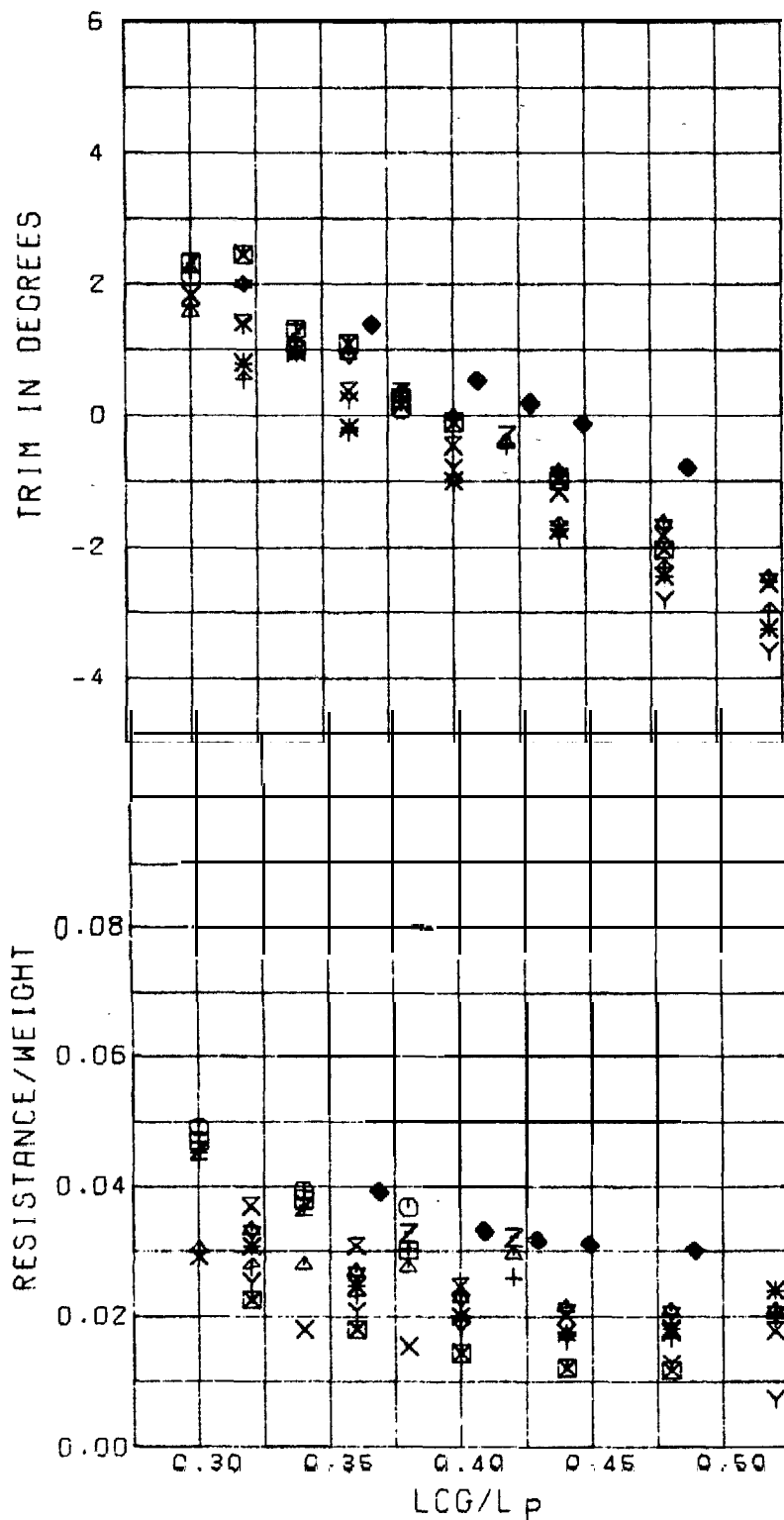
$$L_P / \nabla^{1/3} = 8.0 \quad F_{N \nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-------------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ● | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

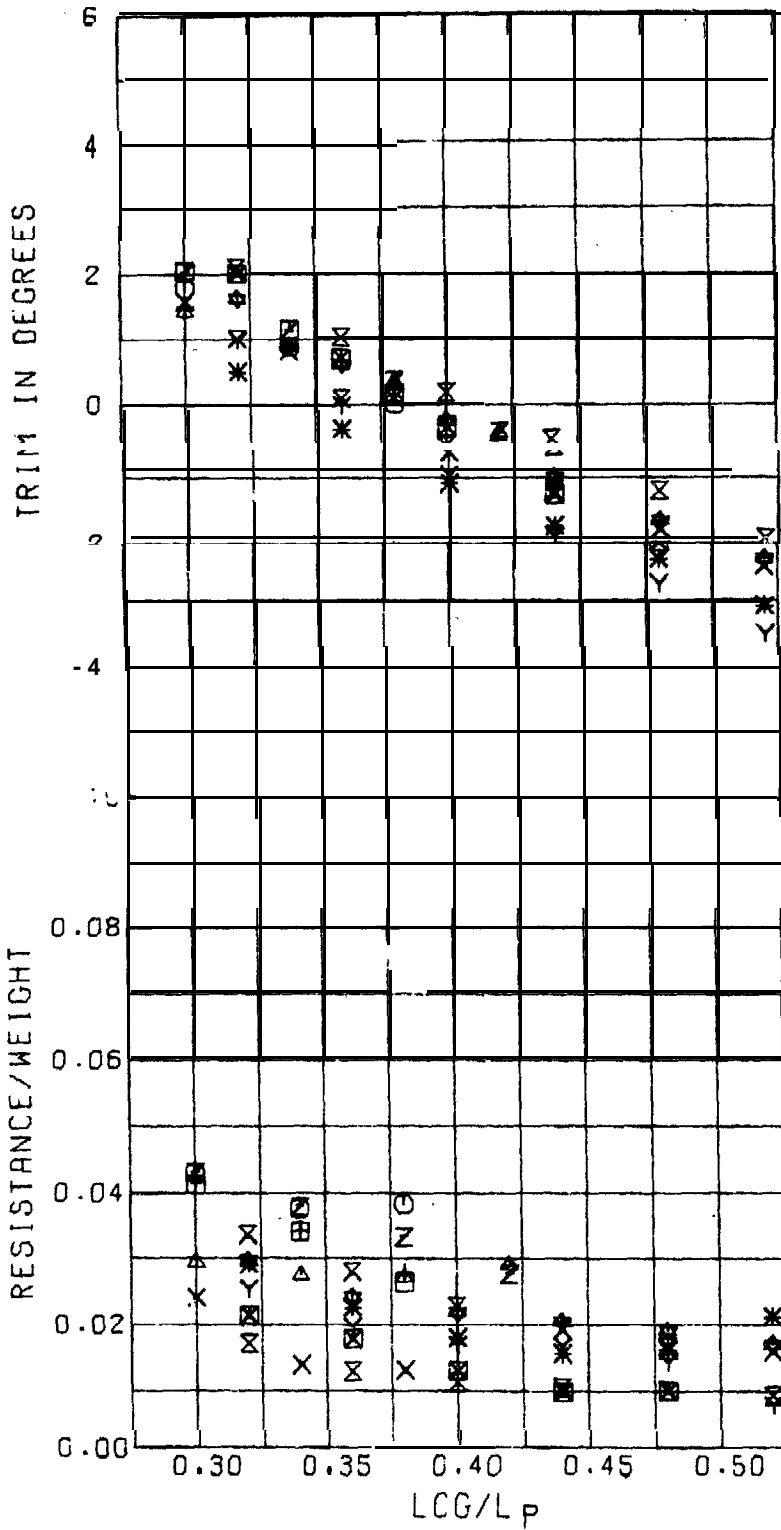
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------------|--------------|-----------|
| ⊕ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| · | 5248 | 9.34 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| d | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\nabla^{1/3} = 9.0$$

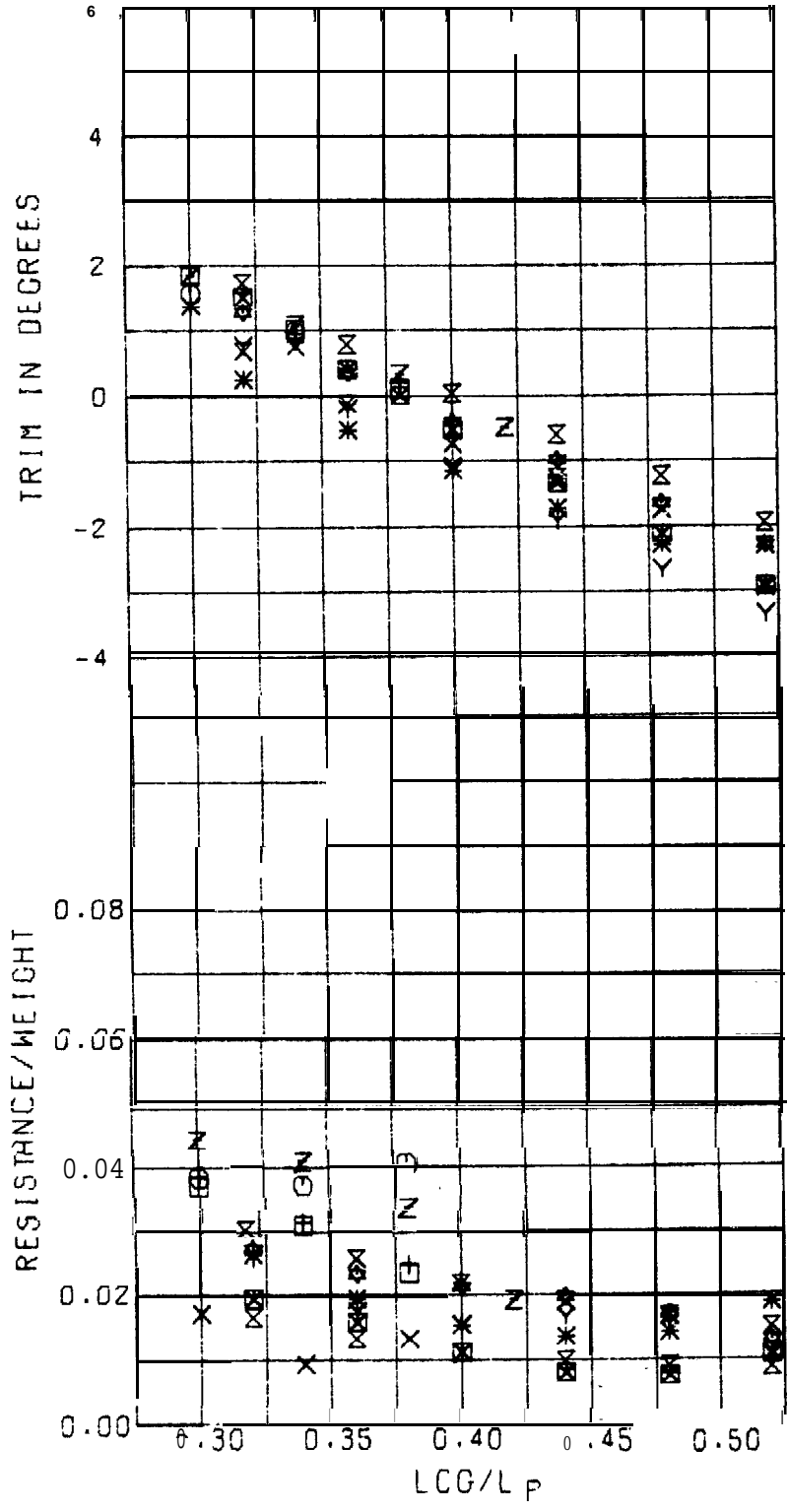
$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

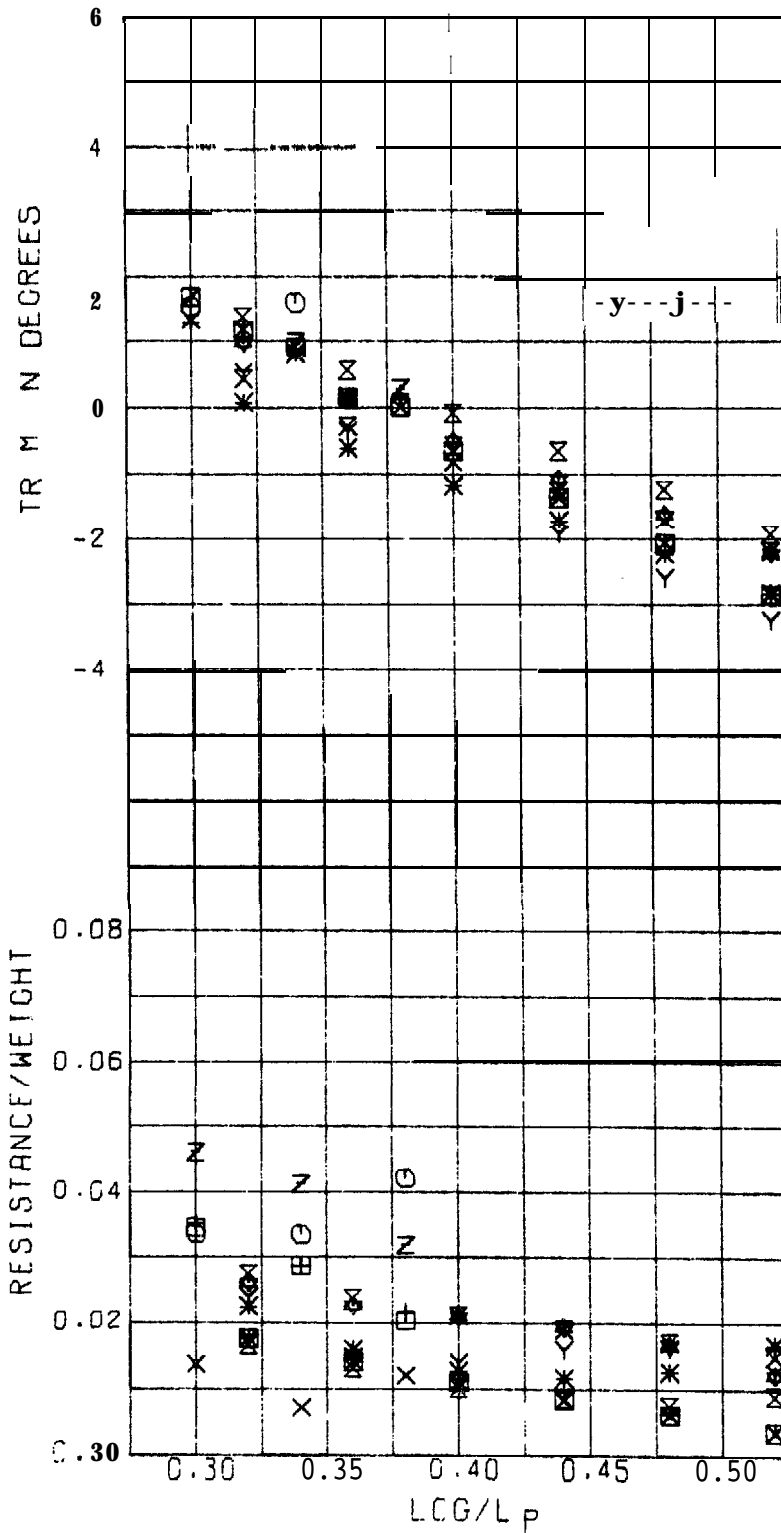
$$L_P/\nabla^{1/3} = 9.5$$

$$F_{N\nabla} = 1.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊗ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| cl | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

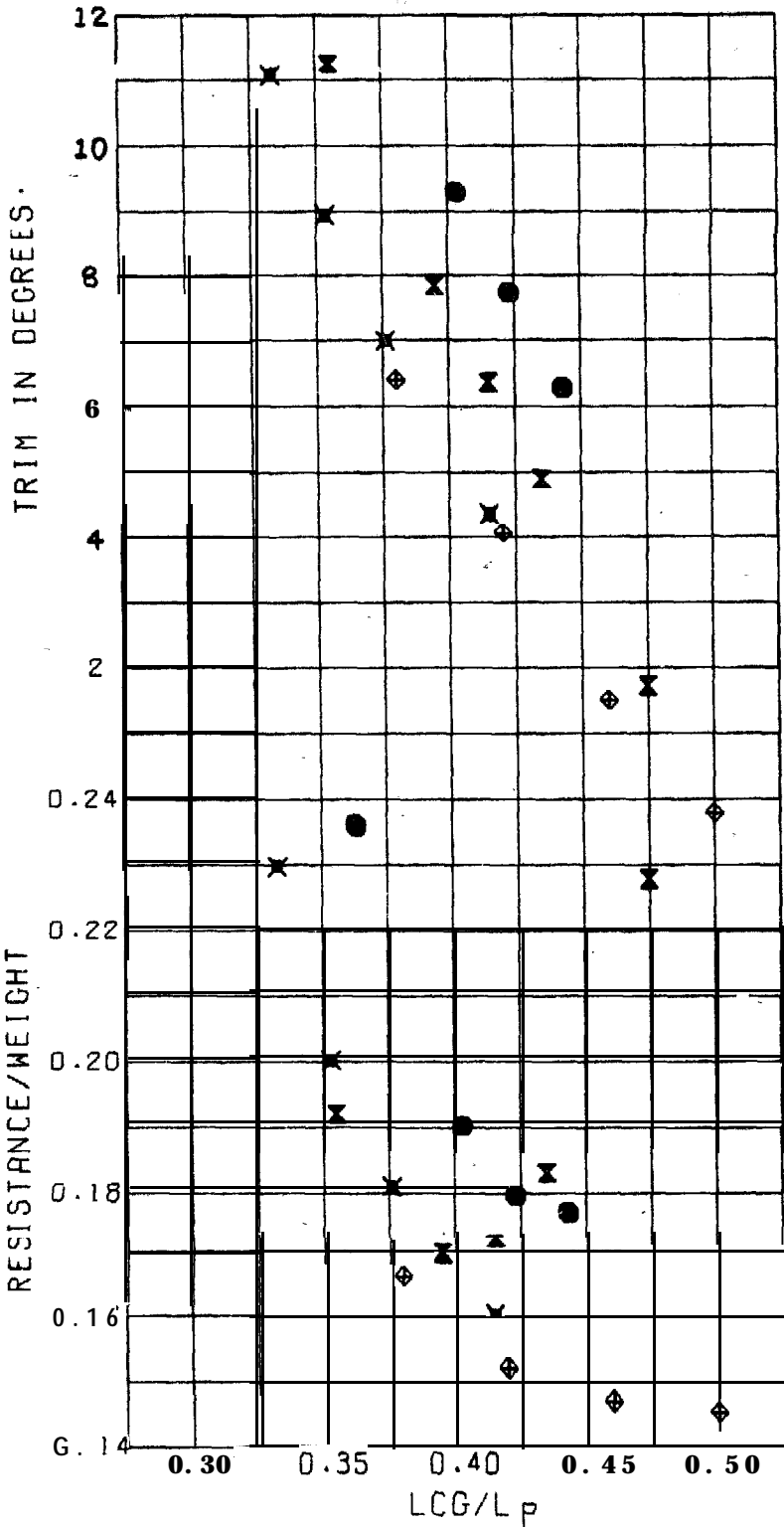
$$L_P/V^{1/3} = 10.0 \quad F_{NV} \quad \square \quad \circ \quad \times \quad \oplus \quad \ominus$$



| SYMBOL | MDEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | -4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊗ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P / \nabla^{1/3} = 4.0$$

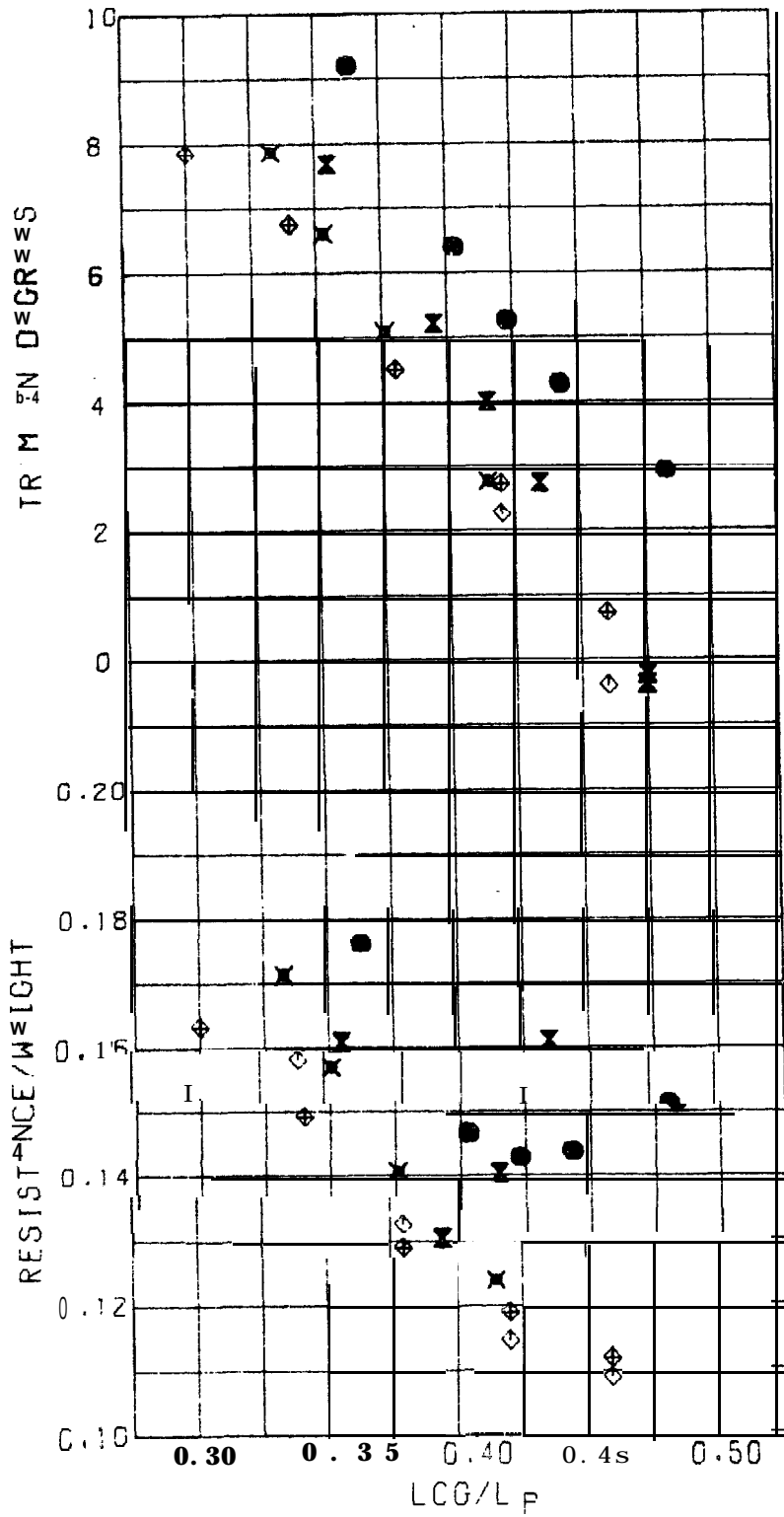
$$F_{N \nabla} = 1.25$$



| SYMBOL | MODEL | L_P / B_{PX} | β_T |
|--------|---------|----------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| X | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | OL 62-A | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 4.5$$

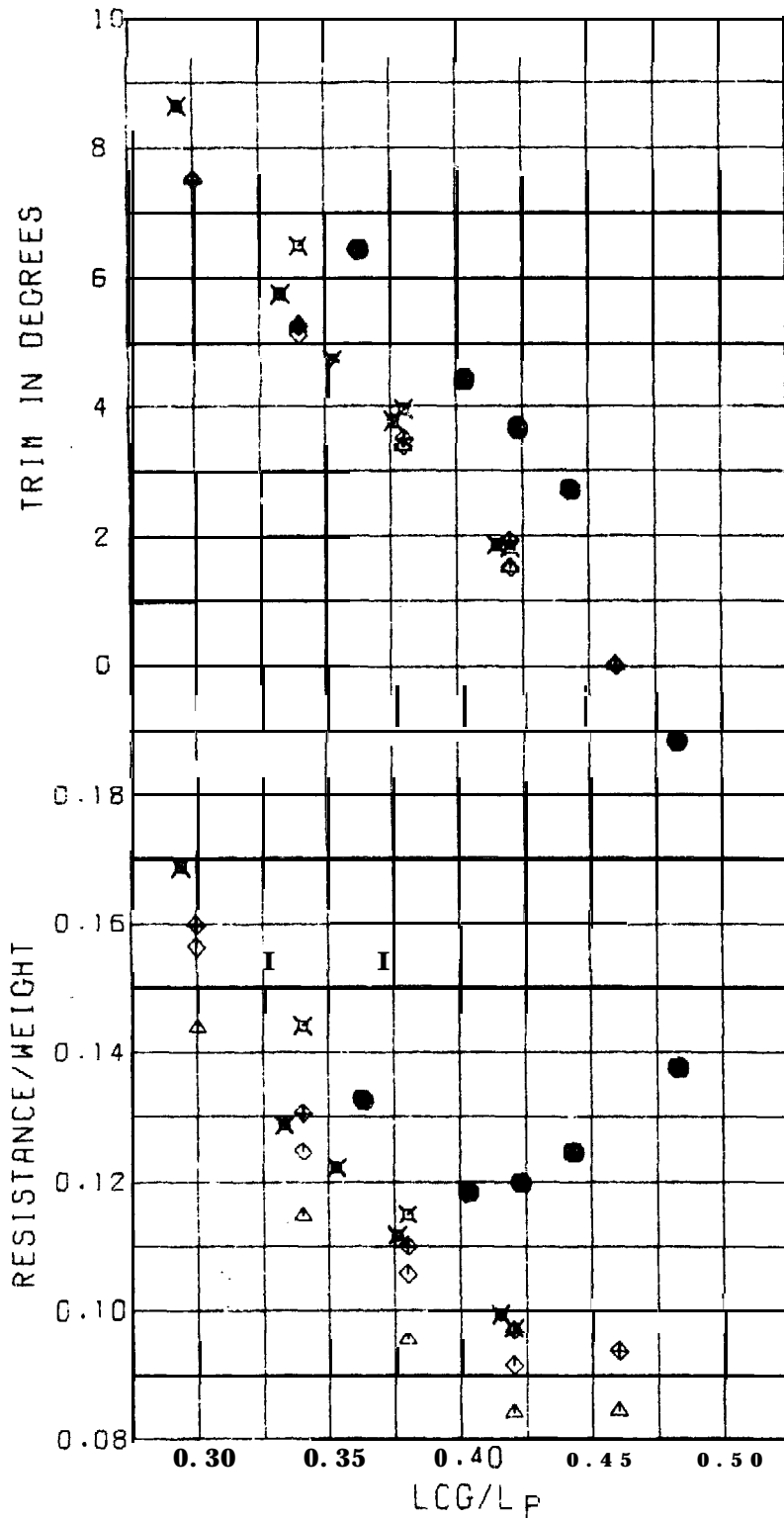
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊗ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| ⊗ | DL 62-R | 3.06 | 13.0 |

$$L_P / \nabla^{1/3} = 5.0$$

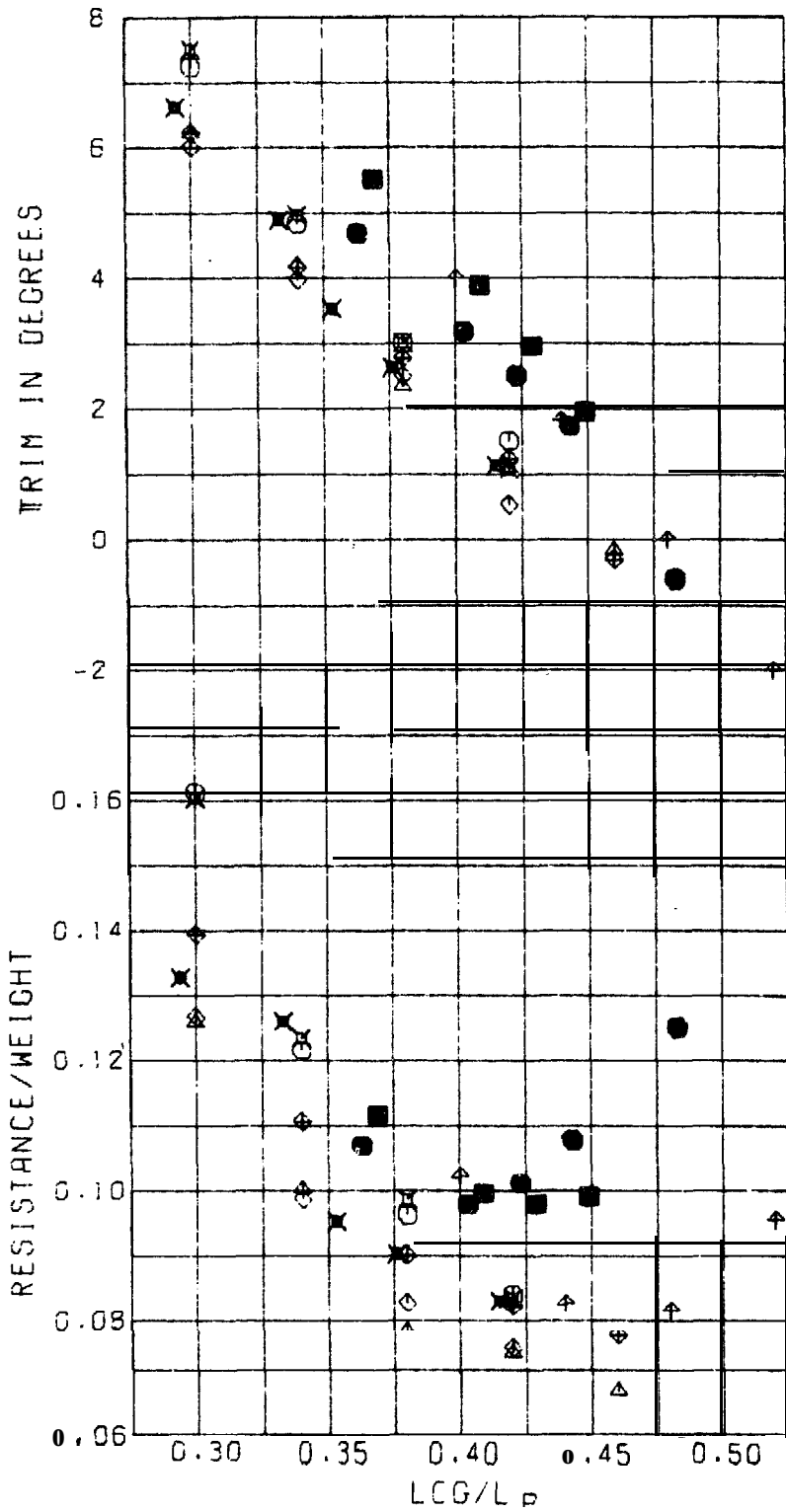
$$F_{N \nabla} = 1.25$$



| SYMBOL | MODEL | $L_P / B_{P \chi}$ | β_T |
|--------|---------|--------------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ⊠ | DL 62-Q | 3.06 | 33.0 |

$$L_P/v^{1/3} = 5.5$$

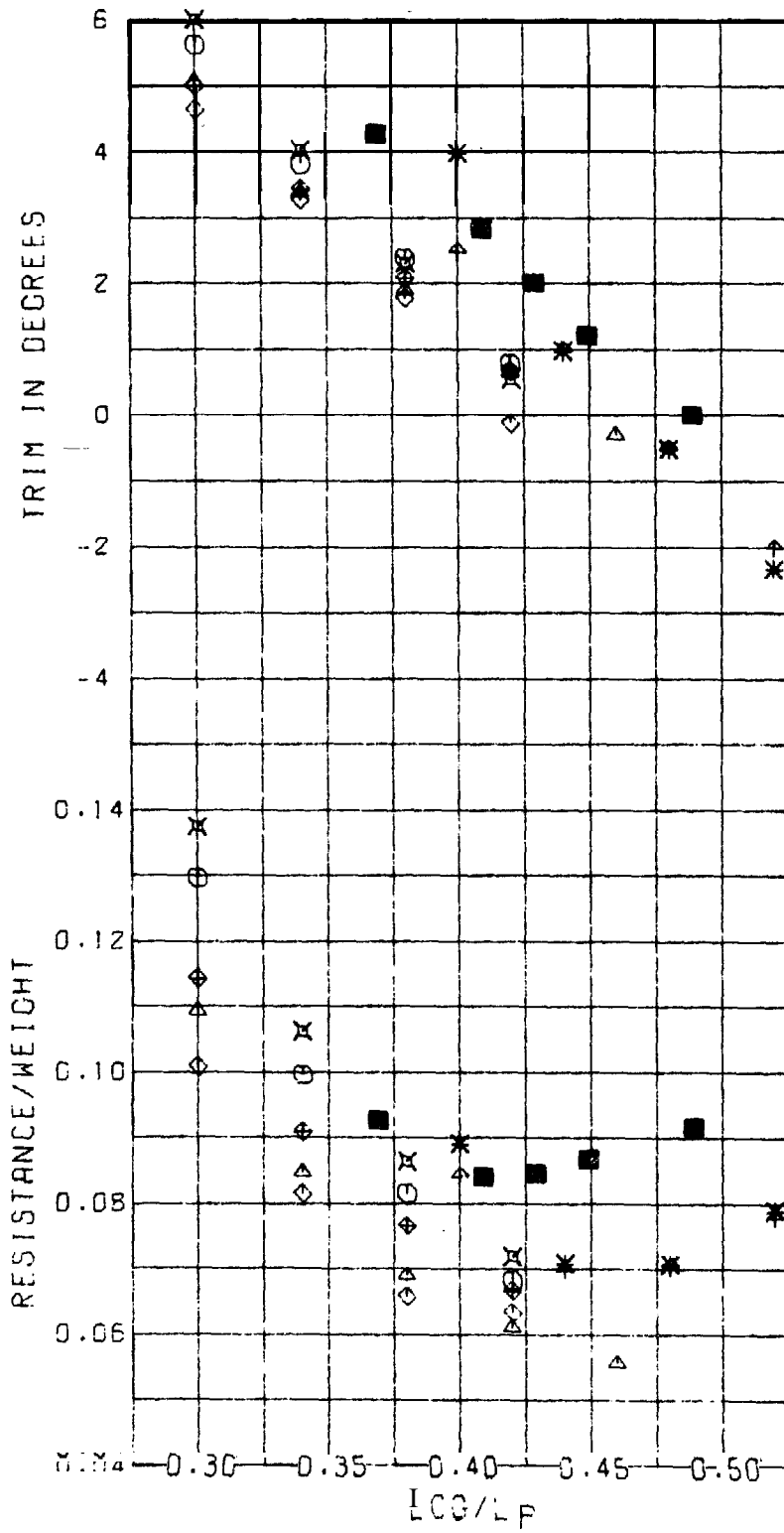
$$F_{N\bar{v}} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ⊗ | DL 62-A | 3.06' | 13.0 |

$$L_P/V^{1/3} = 6.0$$

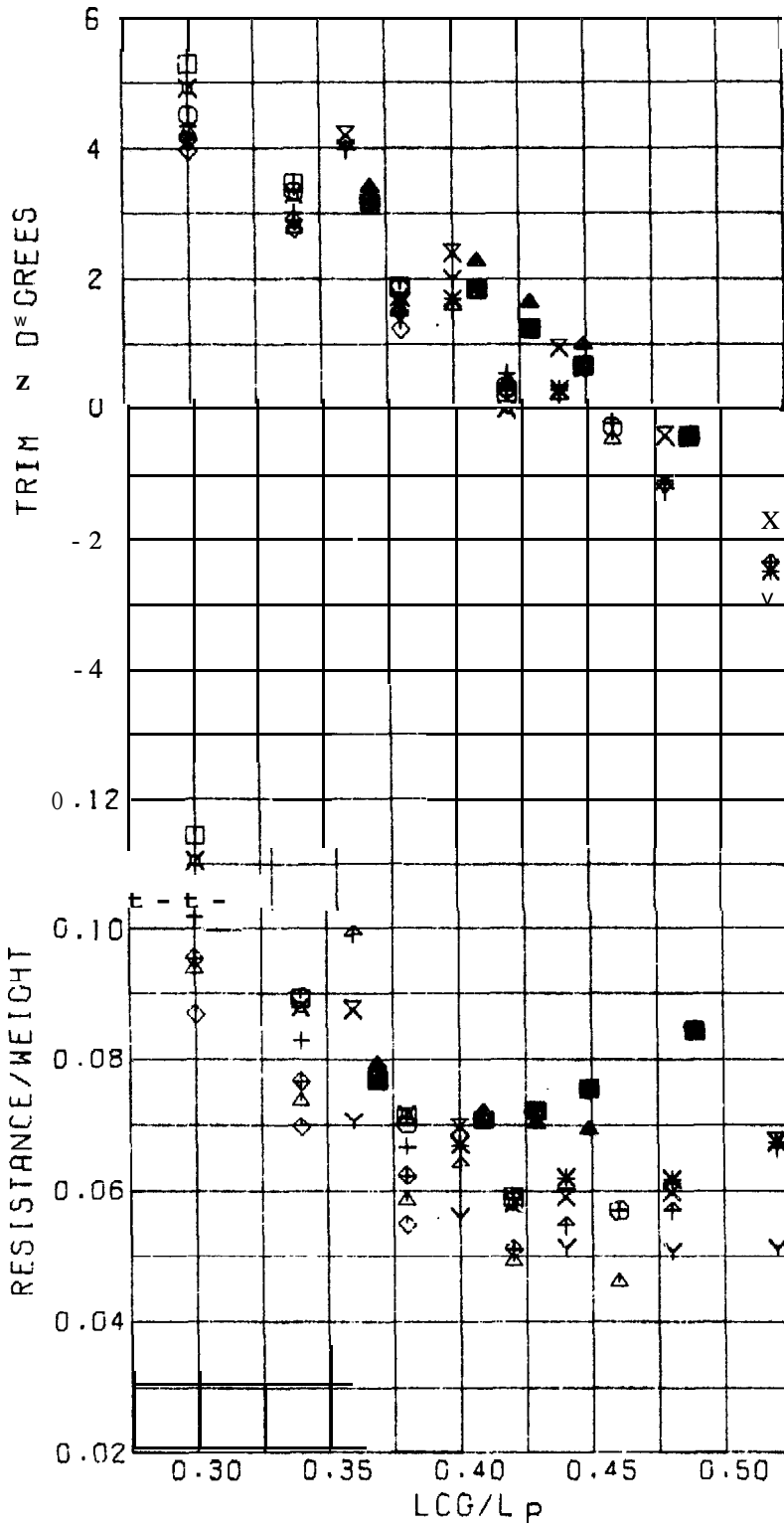
$$F_{NV} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

$$L_P/\nabla^{1/3} = 6.5$$

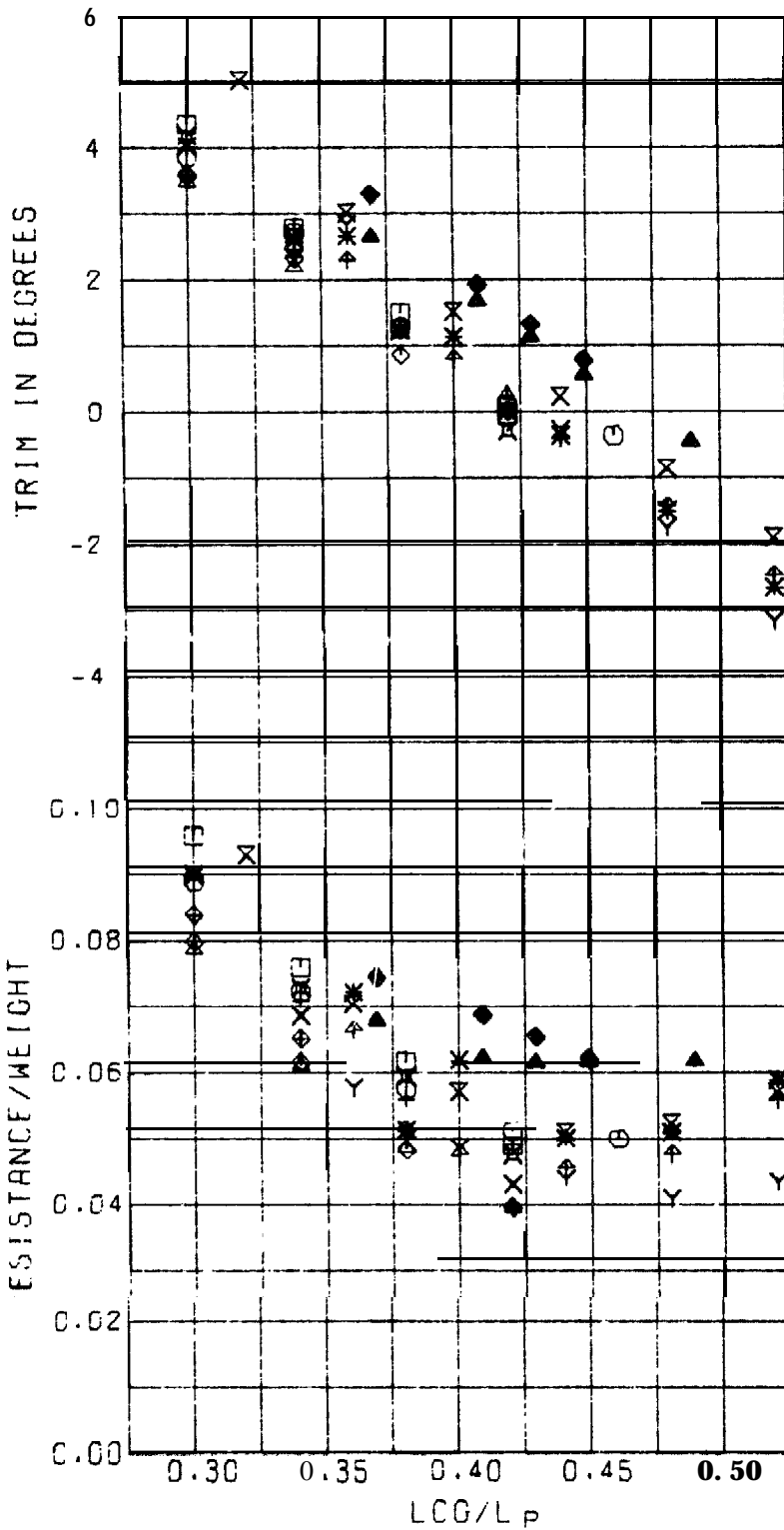
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-------------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊕ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0$$

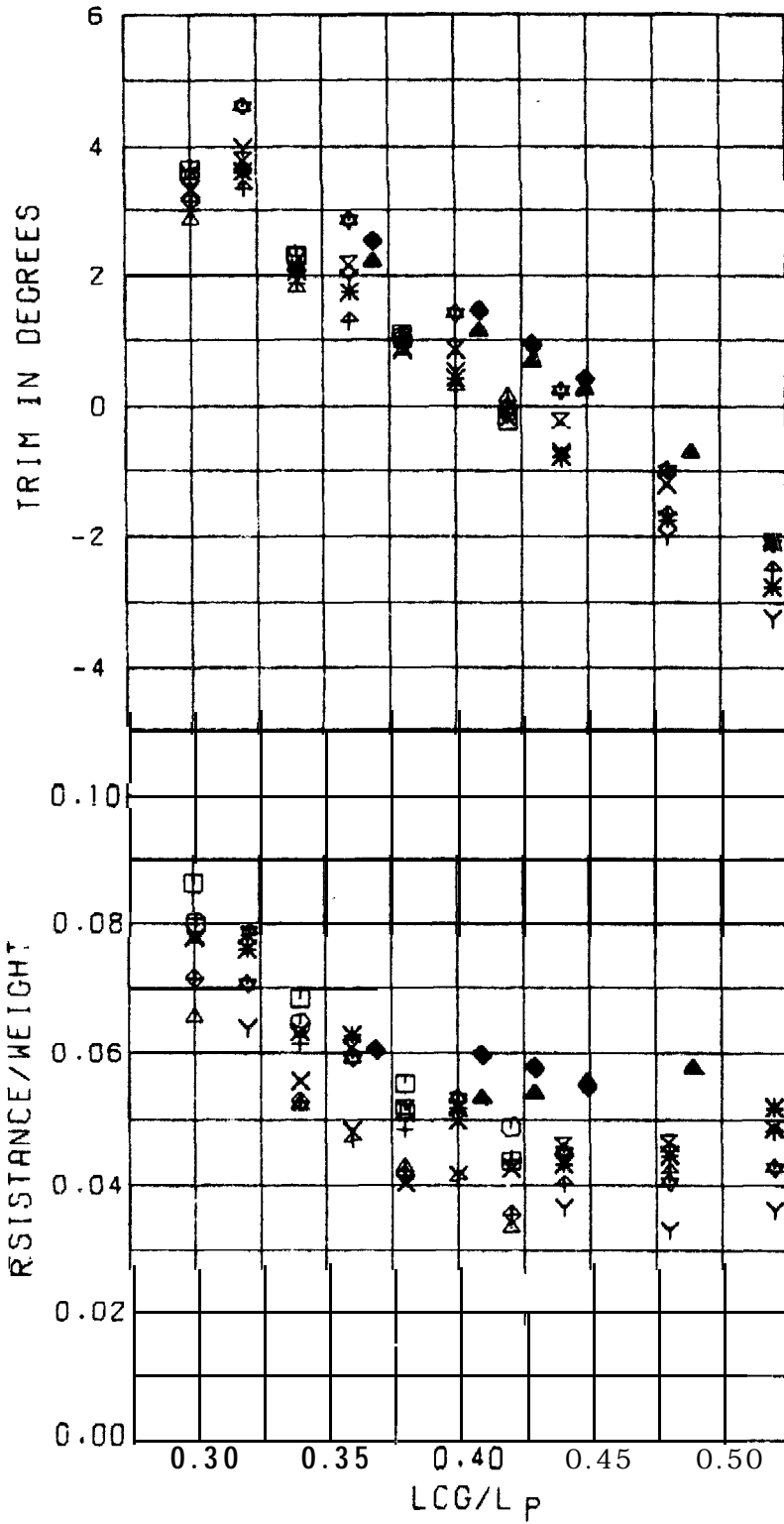
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L _P /B _{PX} | β _T |
|--------|-------|---------------------------------|----------------|
| † | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◊ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ● | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 7.5$$

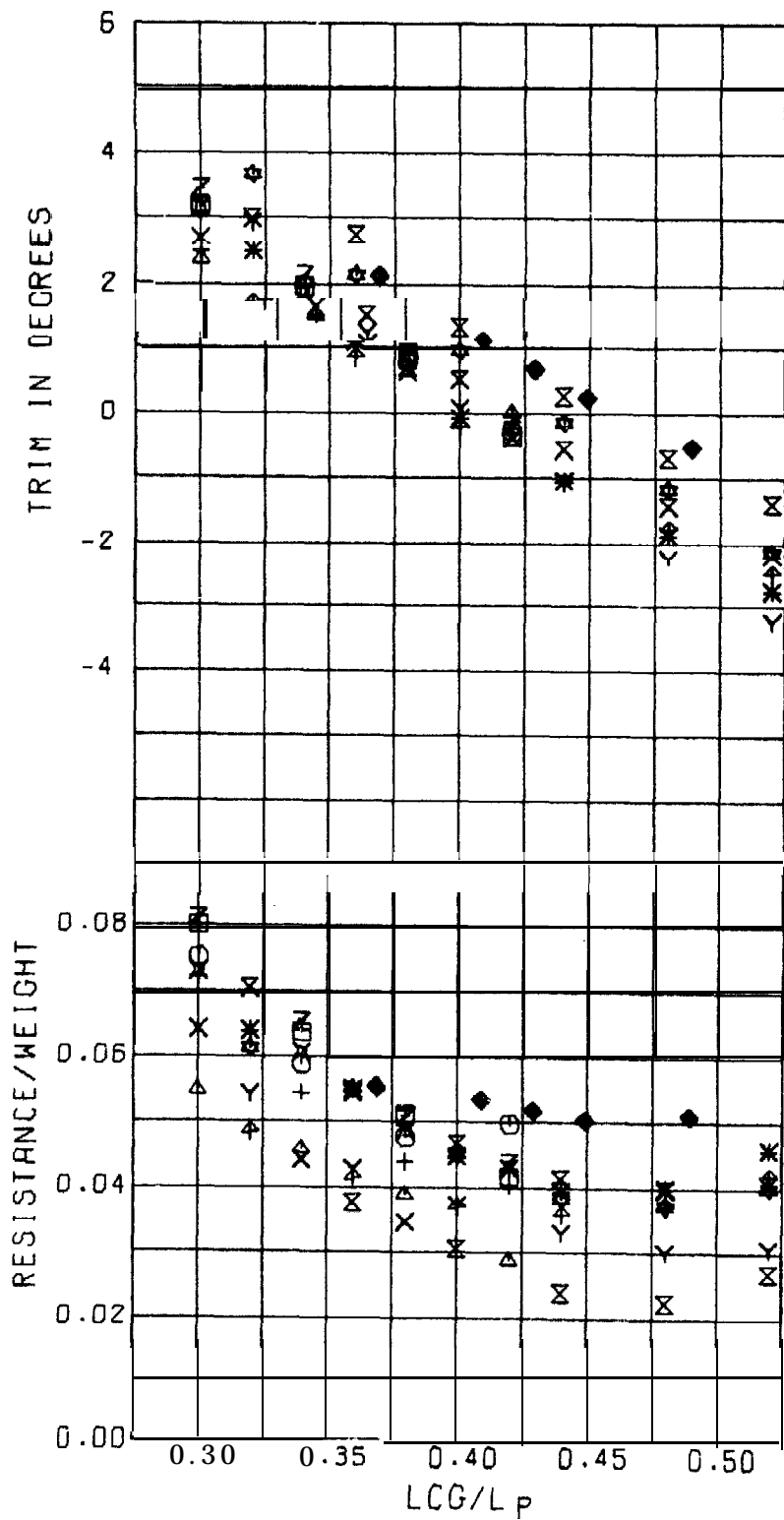
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-------------|
| ↑ | 5251 | 3.30 | 14.8 |
| * | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◇ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊗ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| X | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\nabla^{1/3} = 8.0$$

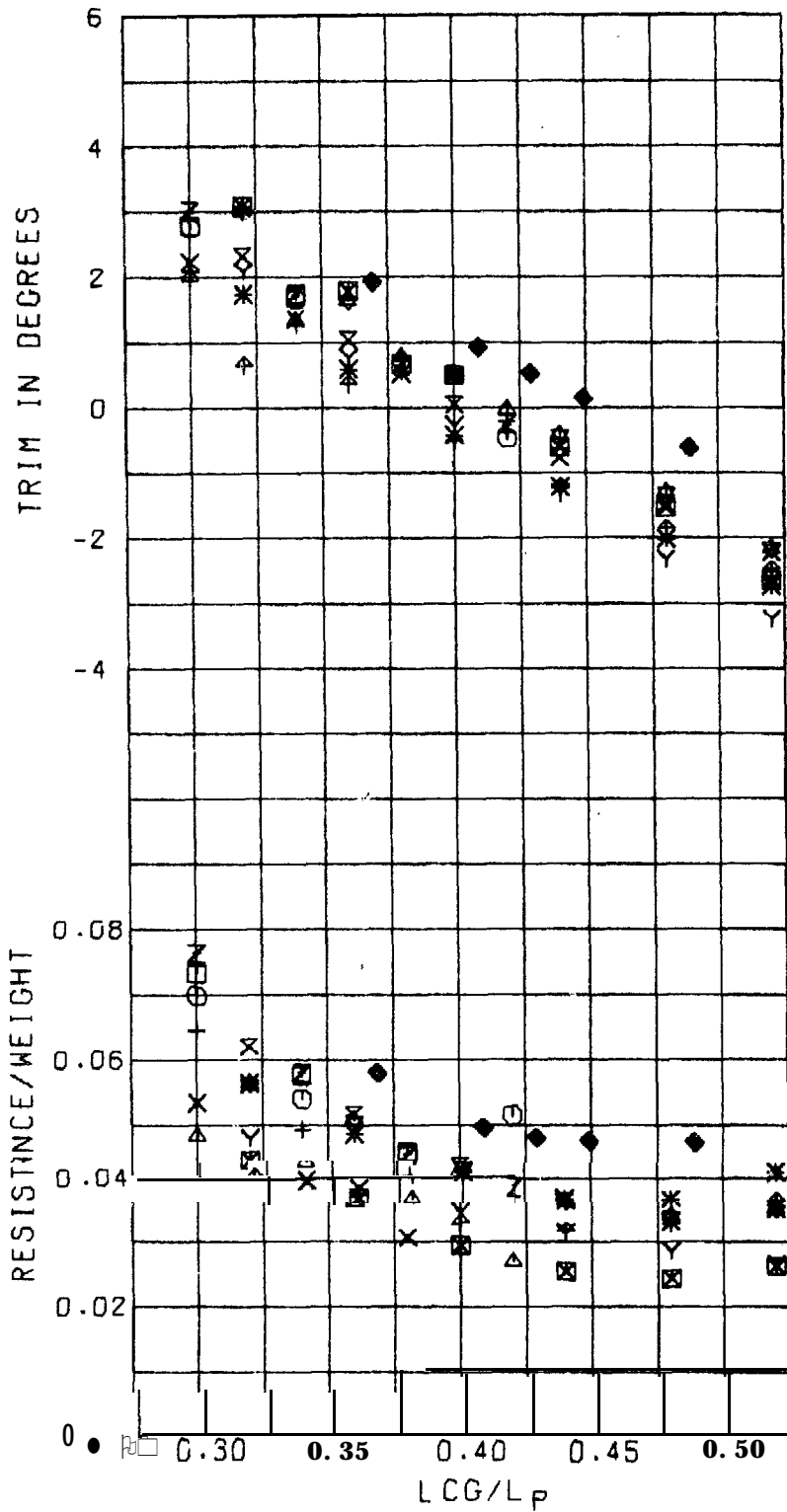
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| † | 52s 1 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

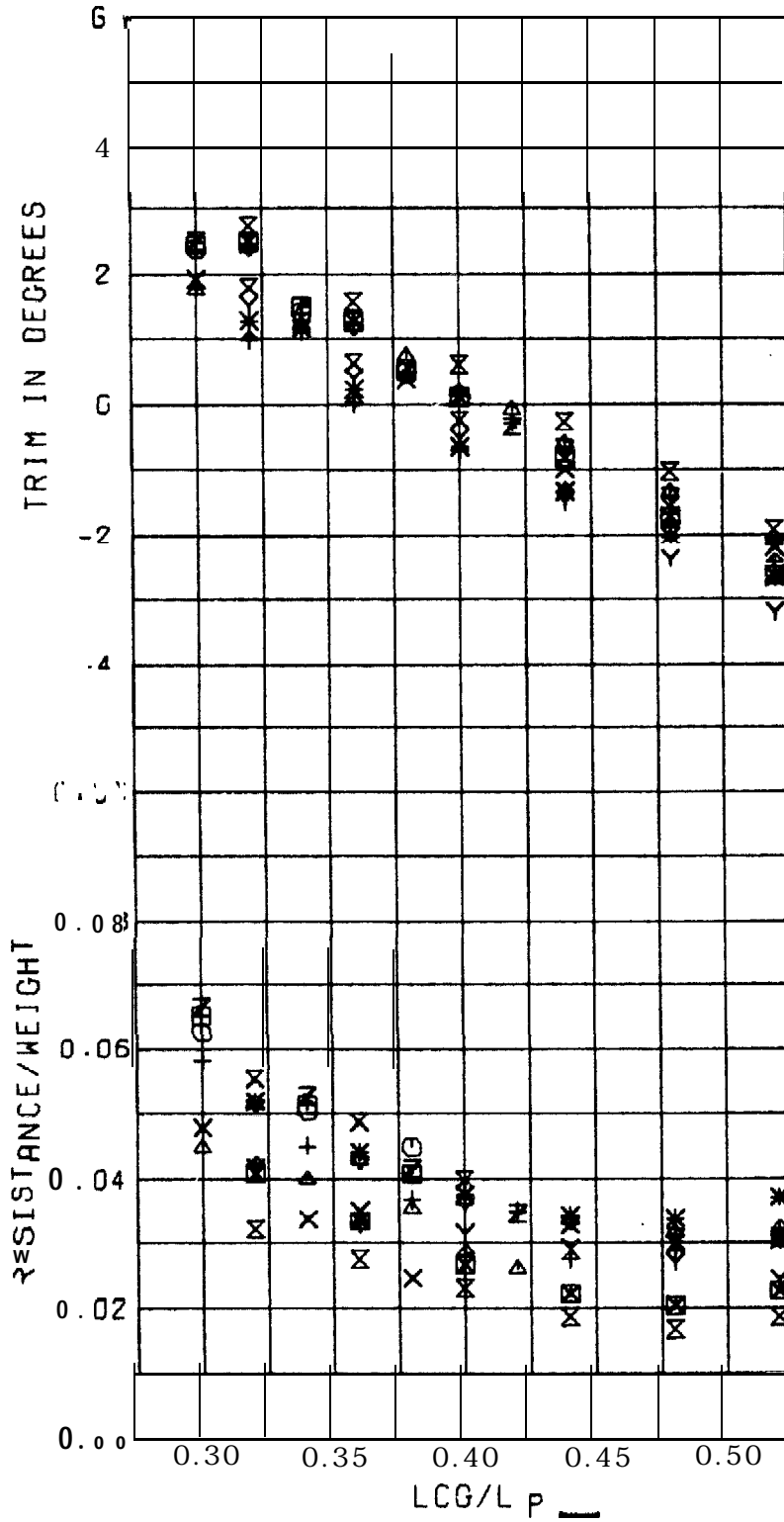
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | L _P /B _{PX} | β _T |
|--------|--------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5104 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| cl | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/V^{1/3} = 9.0$$

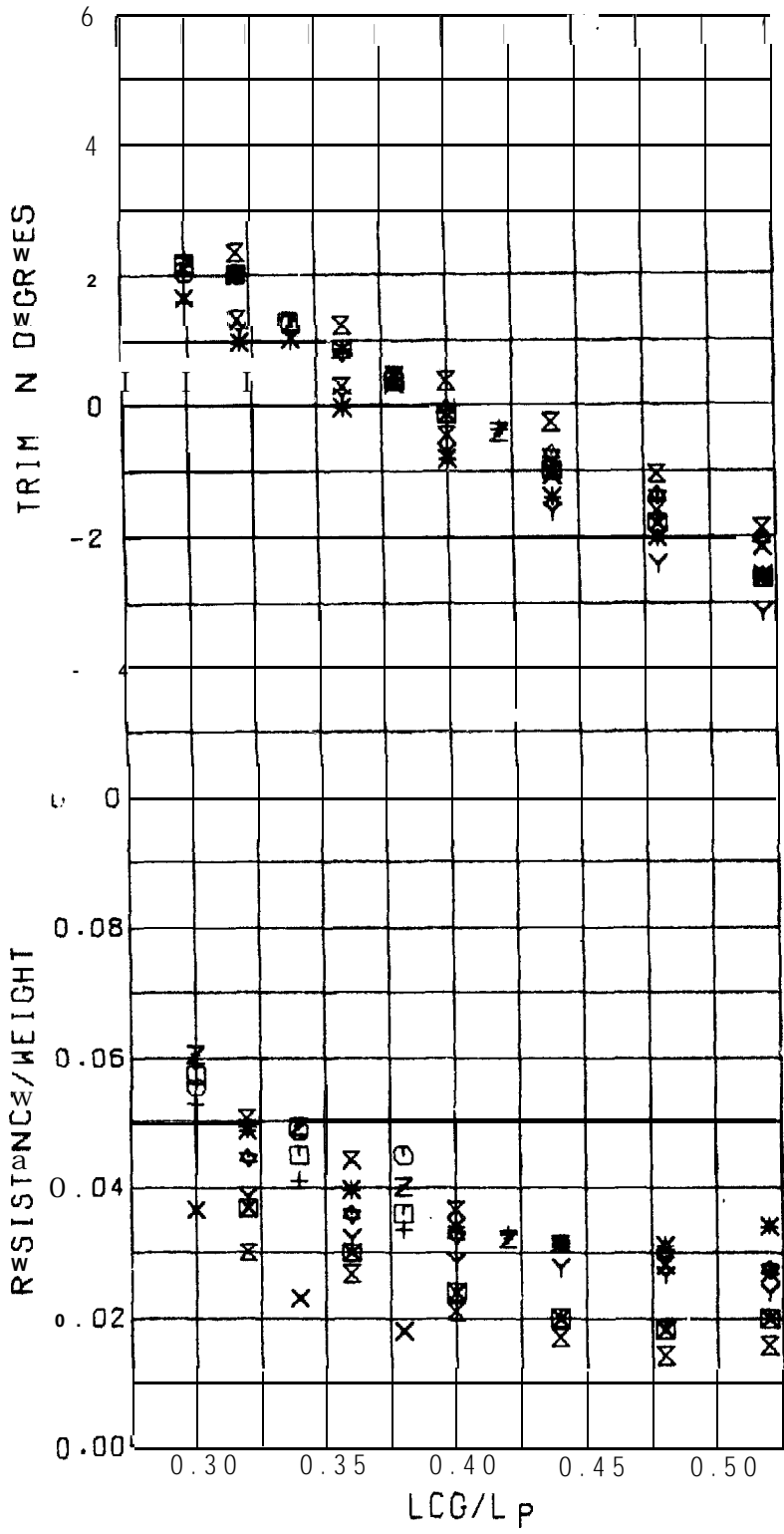
$$F_{NV} = 1.25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------------|--------------|-------------|
| ↑ | 5251 | 2.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Z | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P/\nabla^{1/3} = 9.5$$

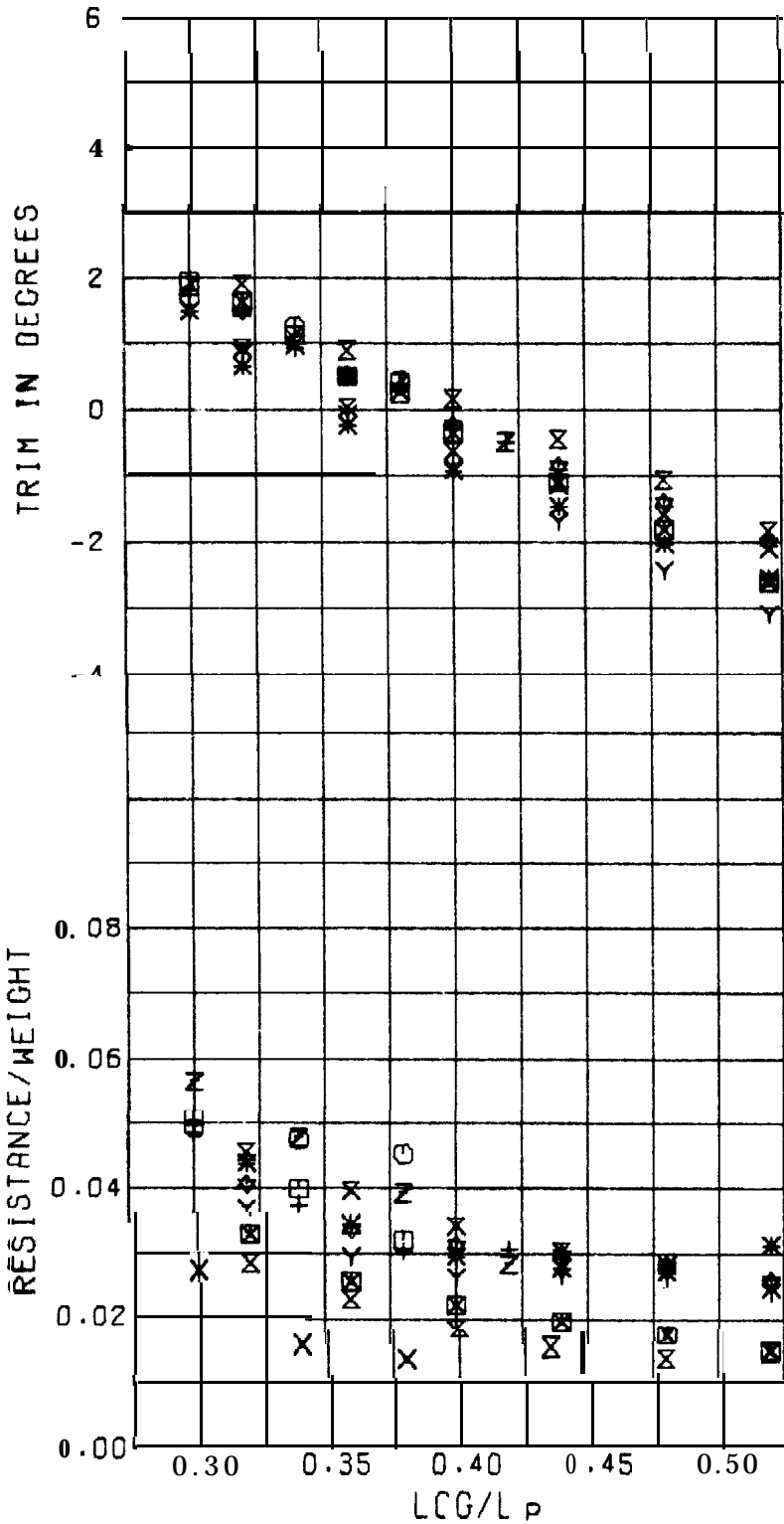
$$F_{N\nabla} = 1.25$$



| SYMBOL | MODEL | $L_P/B_P \chi$ | β_T |
|--------|--------|----------------|-----------|
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5104 | 4.69 | 22.5 |
| ⊗ | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.94 |
| Z | 5238 | 9.38 | 30.4 |

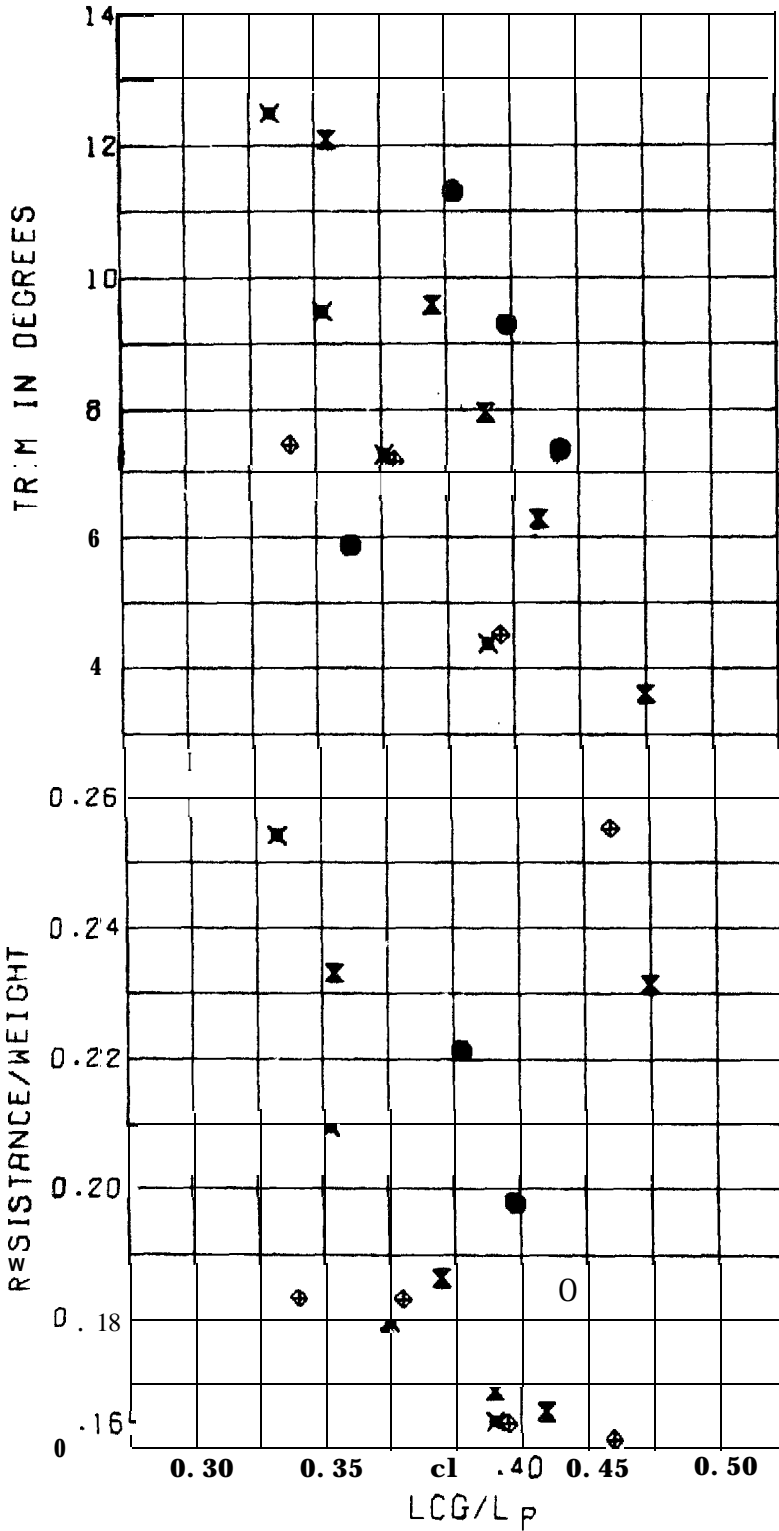
$$L_P/\nabla^{1/3} = 10.0$$

$$F_{N\nabla} = 1:25$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊗ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

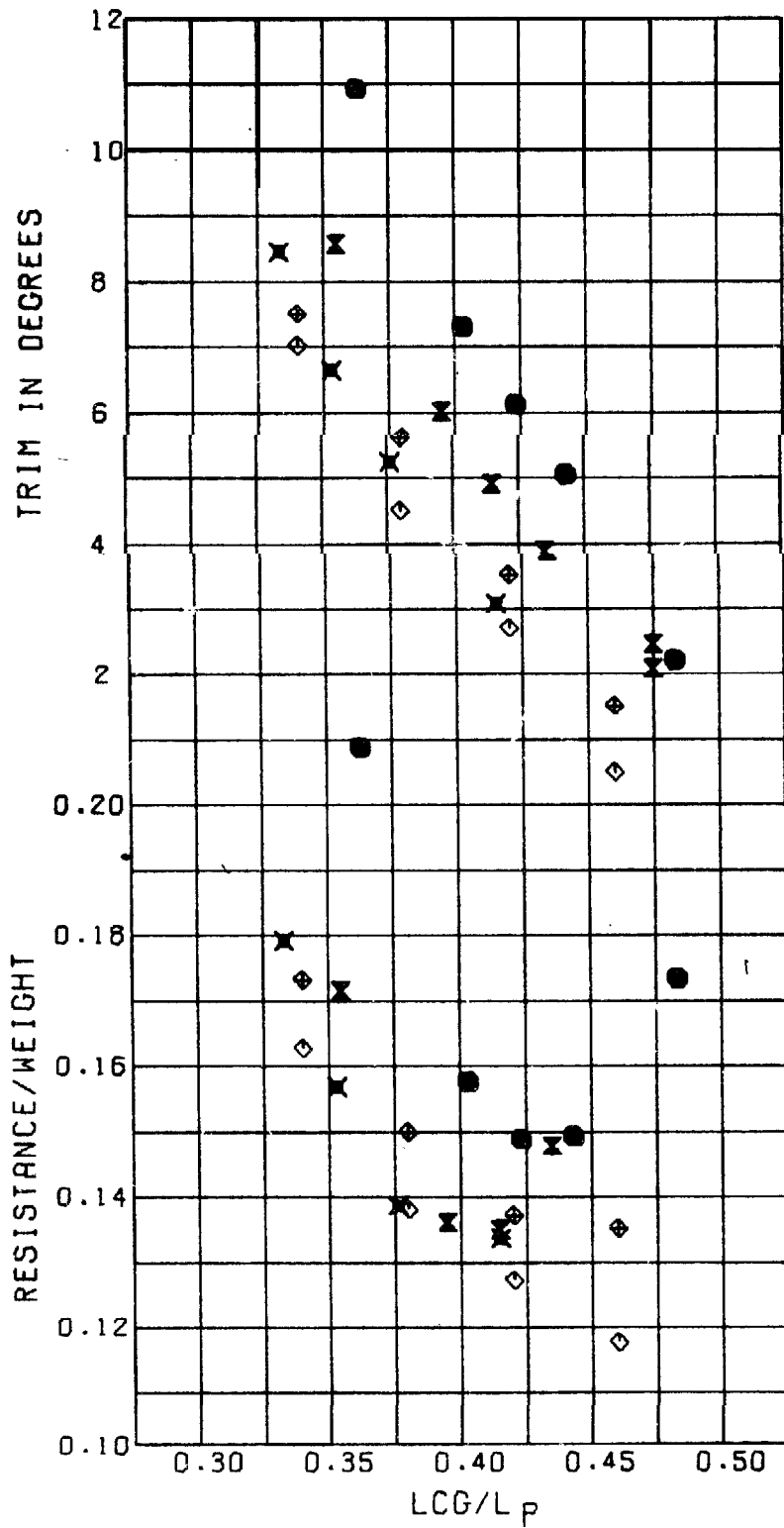
$$L_p/\nabla^{1/3} = 4.0 \quad F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|----------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ✕ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| * | DL 62-F) | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 4.5$$

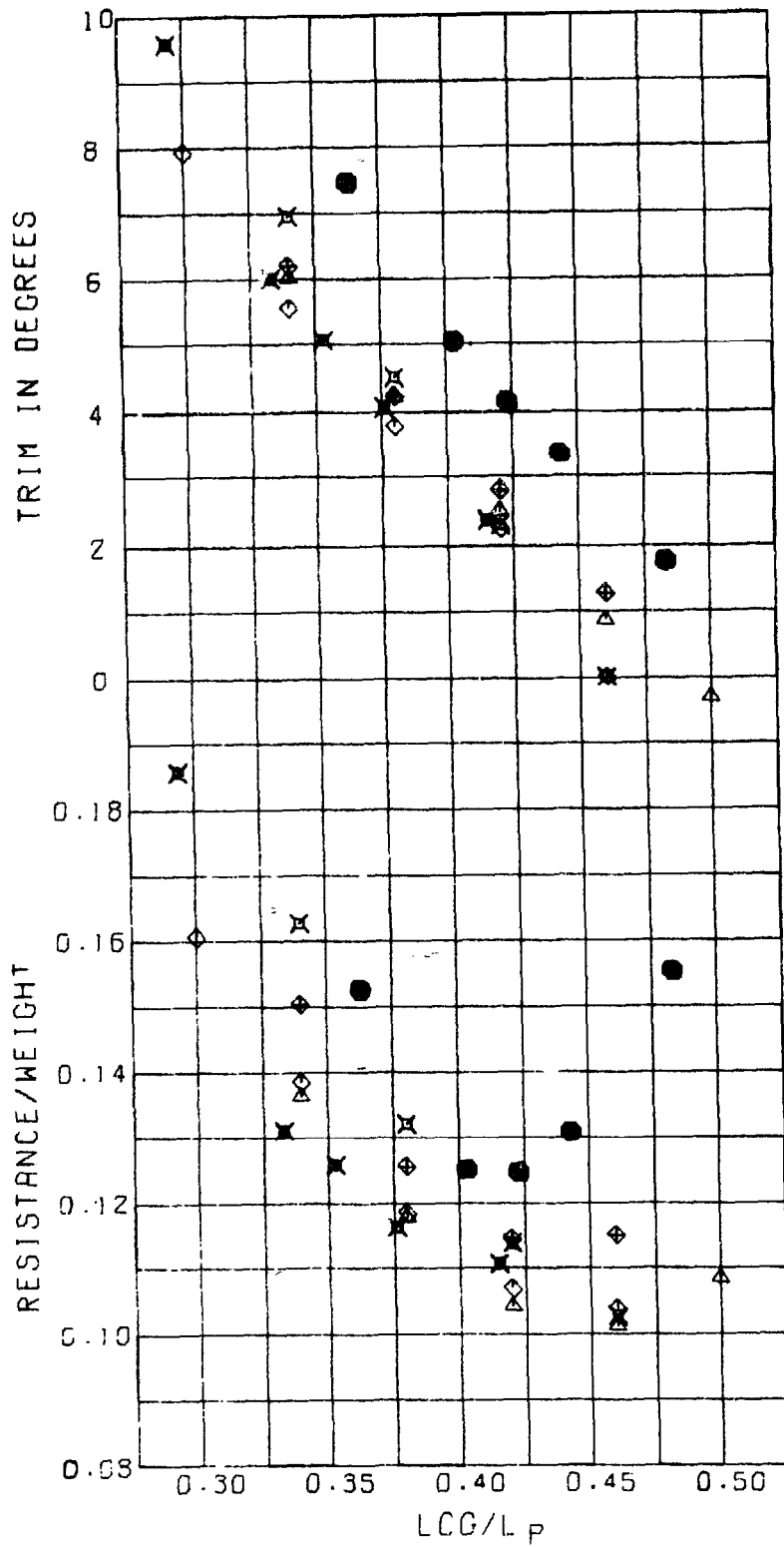
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_p/B_{pX} | β_T |
|--------|---------|--------------|-----------|
| ◆ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-R | 3.06 | 13.0 |

$$L_p/\Delta^{1/3} = 5.0$$

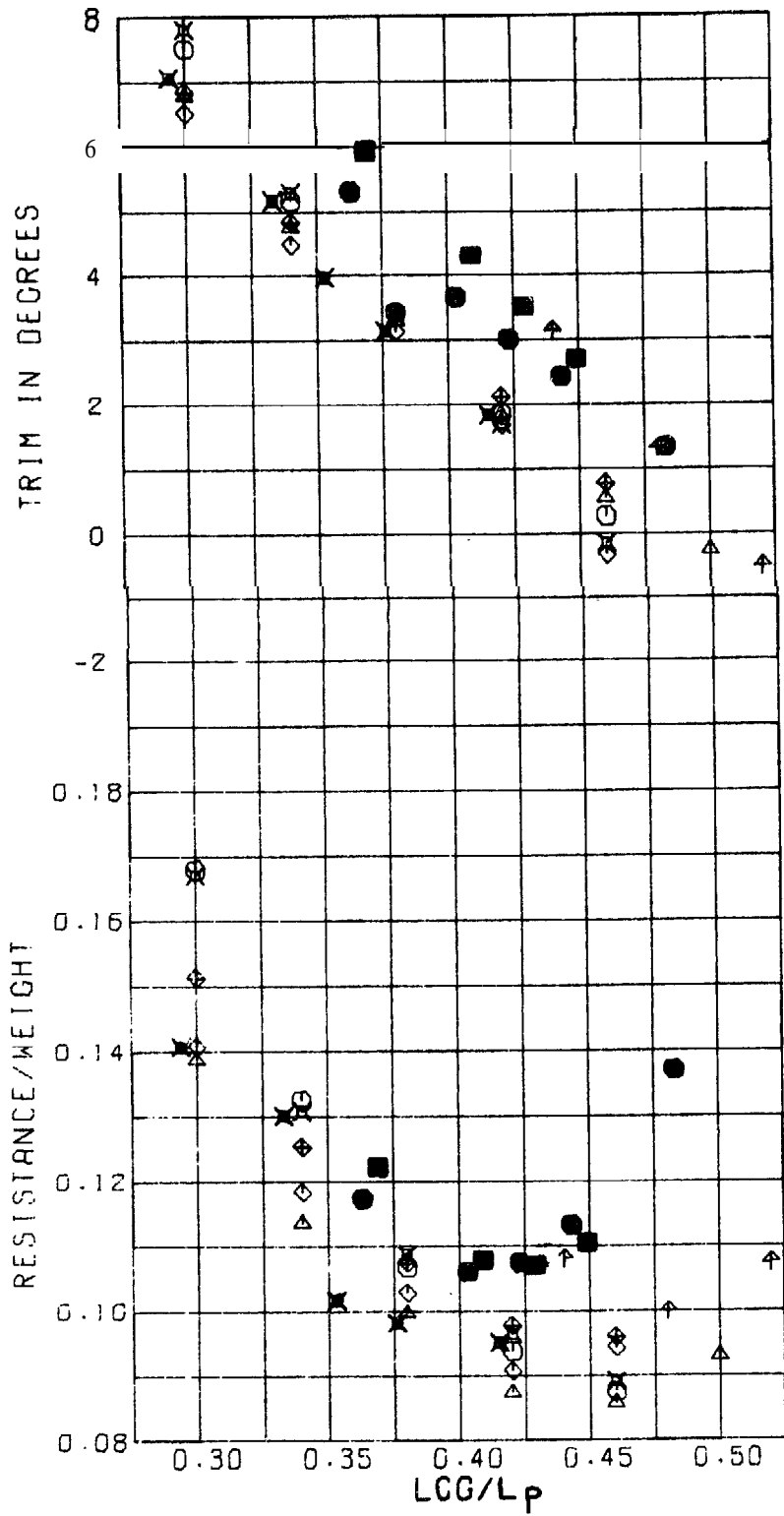
$$F_{N\Delta} = 1.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| a | 5186 | 3.32 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| a | 4666 | 3.06 | 12.5 |
| ⊠ | DL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.5$$

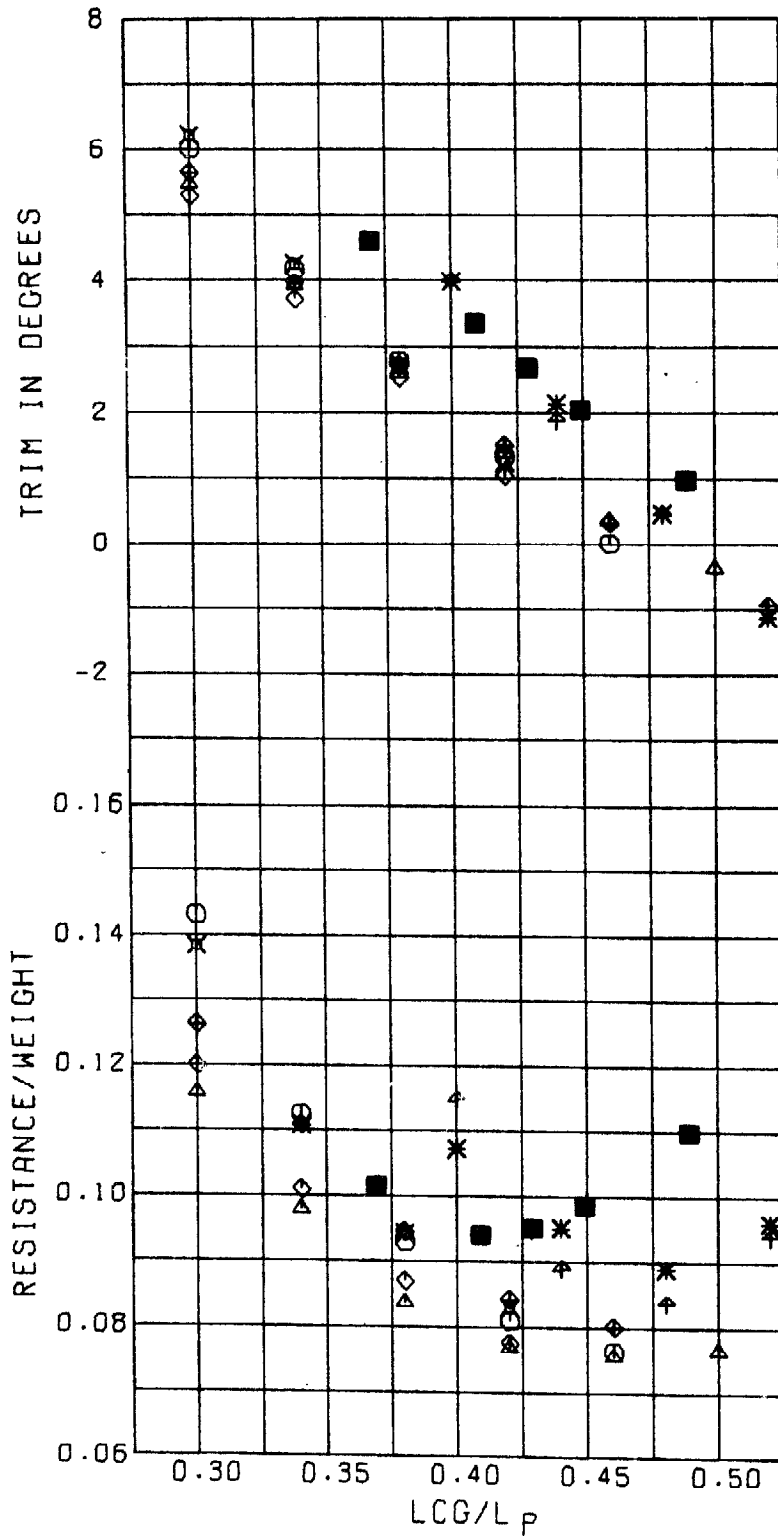
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-------------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ⊗ | DL 62-R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 6.0$$

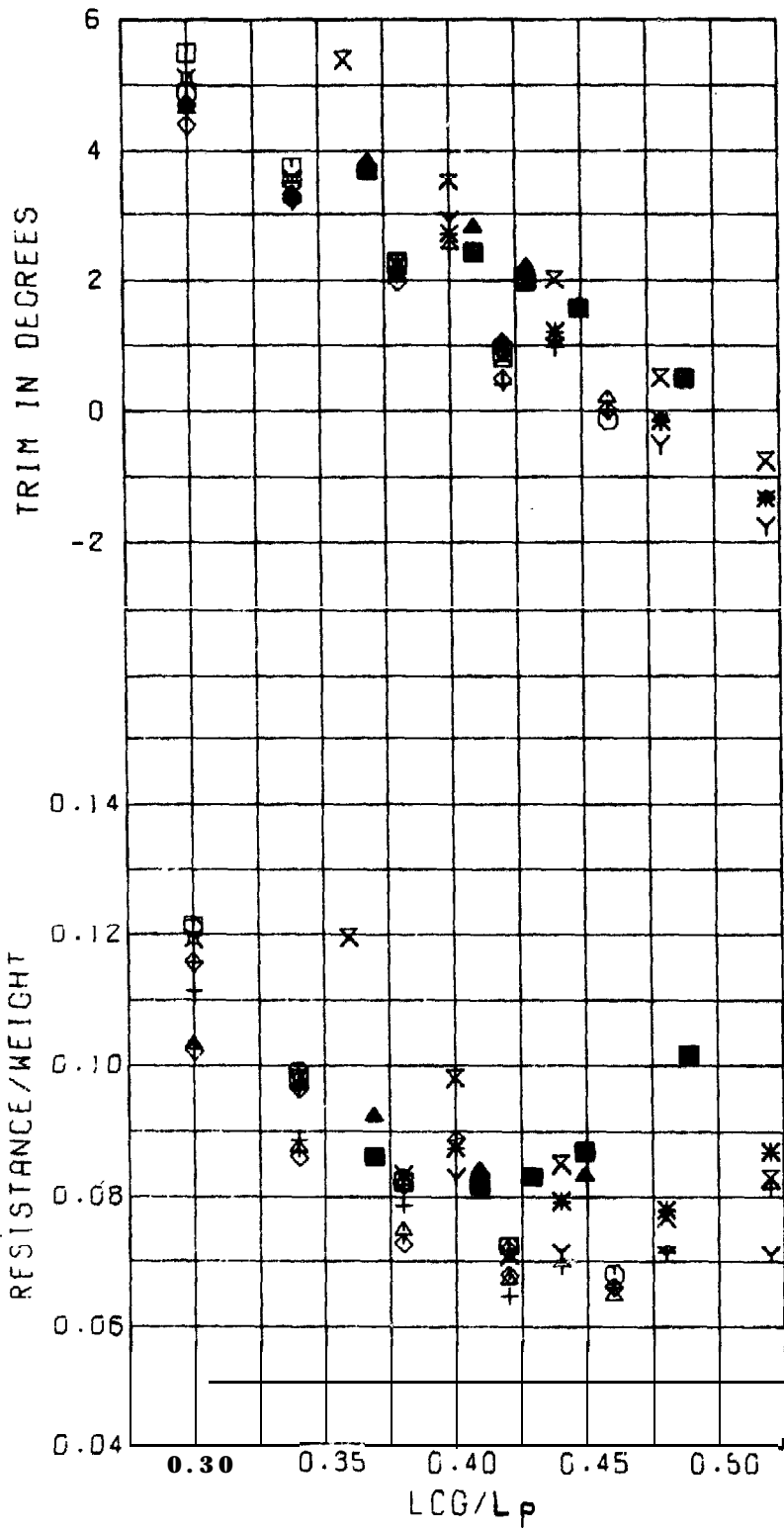
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 525 1 | 3.30 | 14.8 |
| * | 5198 | 4.60 | 20.5 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5106 | 3.32 | 22.5 |
| ○ | 5184 | 4.63 | 22.5 |
| a | 5236 | 4.69 | 30.4 |
| ● | 4667-1 | 4.09 | 12.5 |

$$L_p/\nabla^{1/3} = 6.5$$

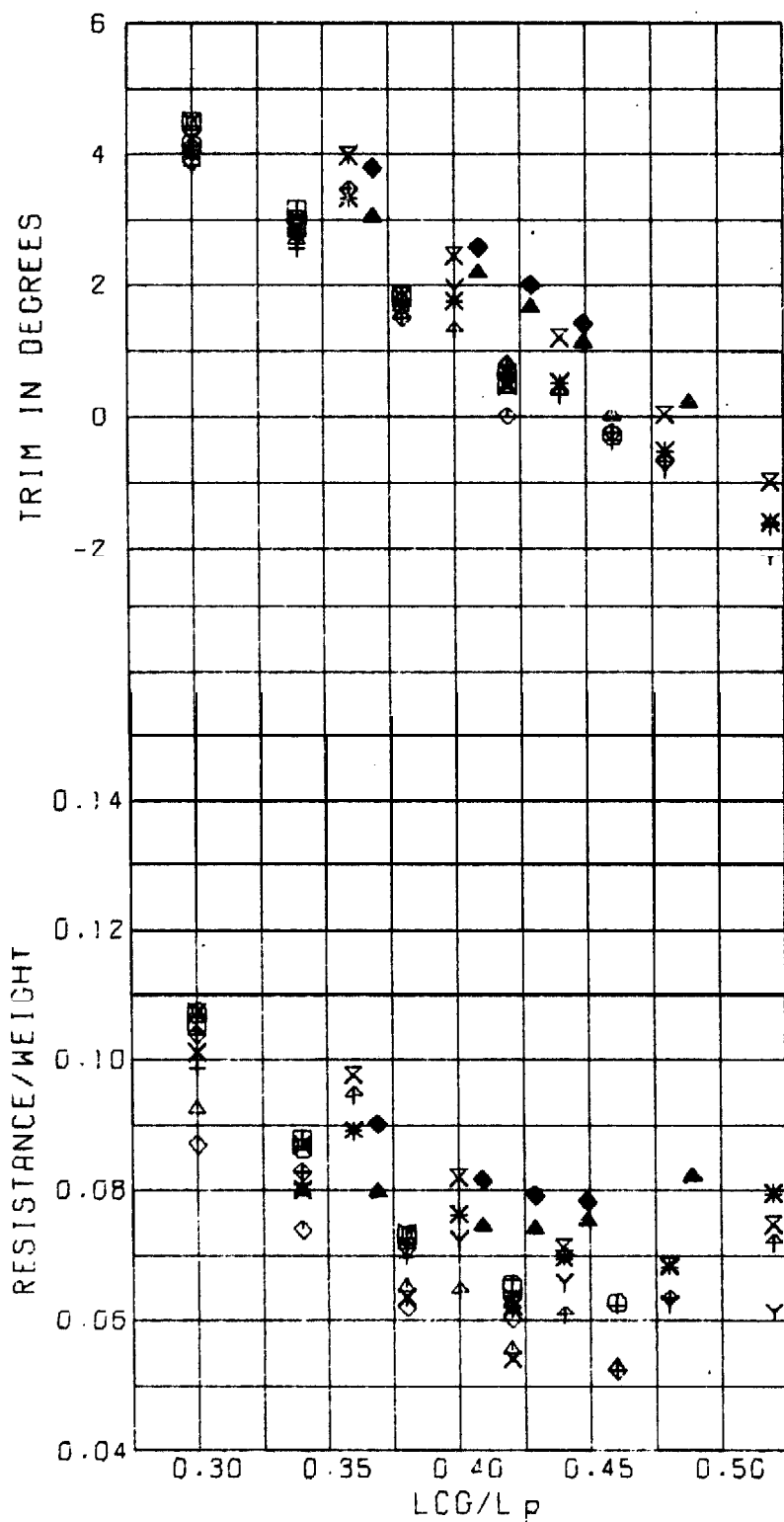
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.09 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P / \nabla^{1/3} = 7.0$$

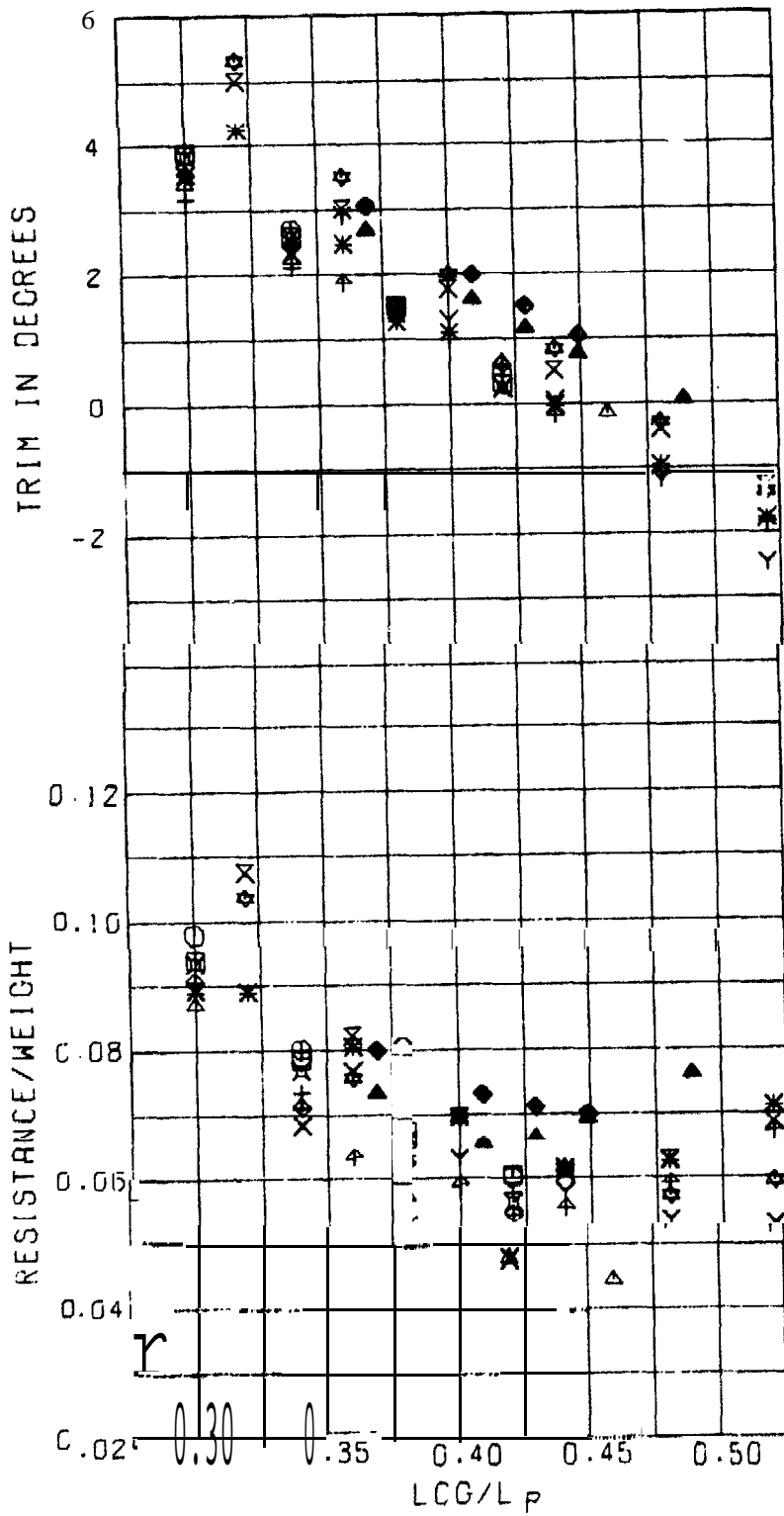
$$F_{N\Delta} = 1.50$$



| SYMBOL | MODEL | L_P / B_P | $\times \beta_T$ |
|--------|-------|-------------|------------------|
| △ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 519b | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| △ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ⊙ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 7.5$$

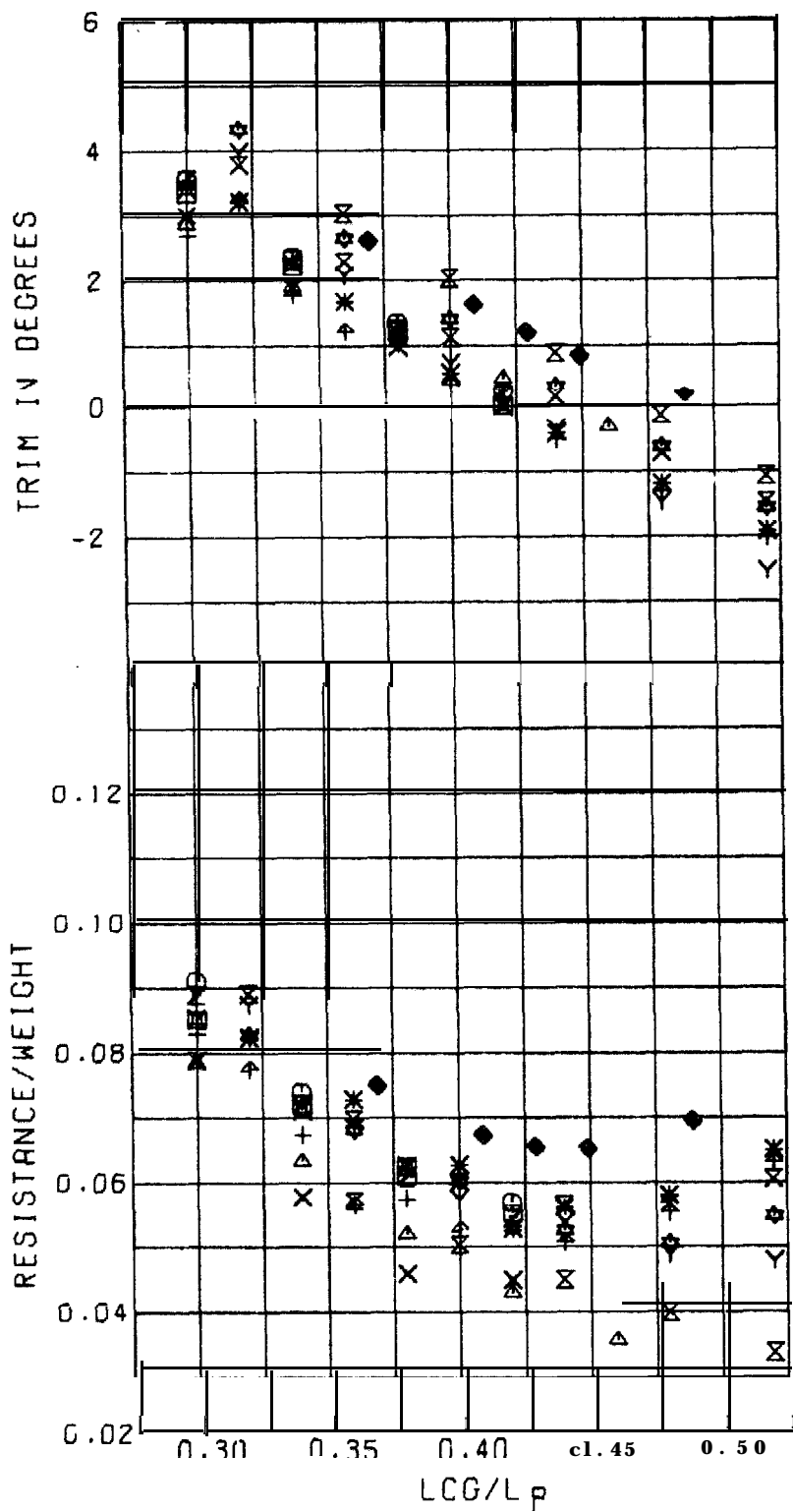
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 525.1 | 3.30 | 14.8 |
| X | 5249 | 4.00 | 4.8 |
| * | 5198 | 4.06 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊖ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

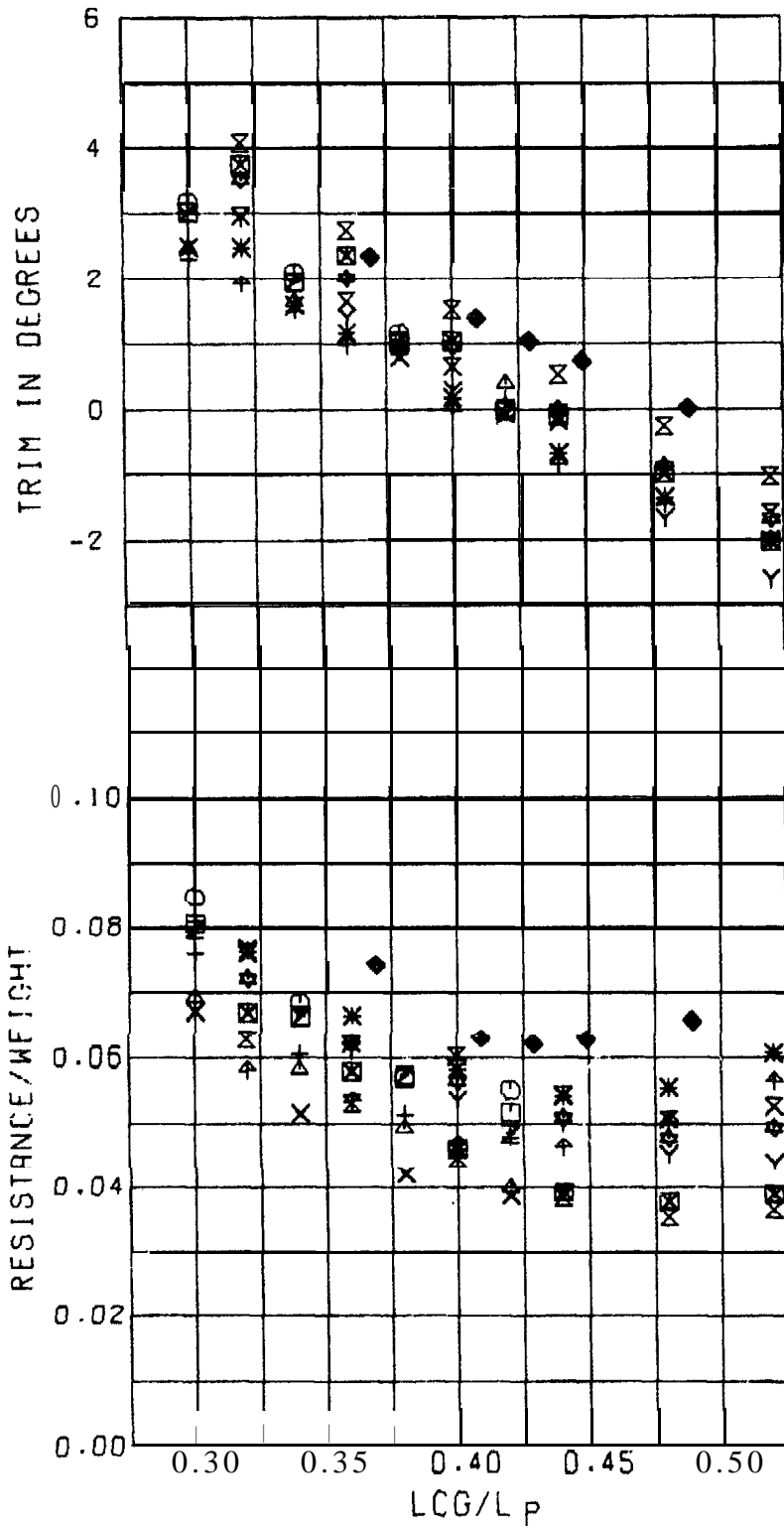
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5230 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} \approx 8.5$$

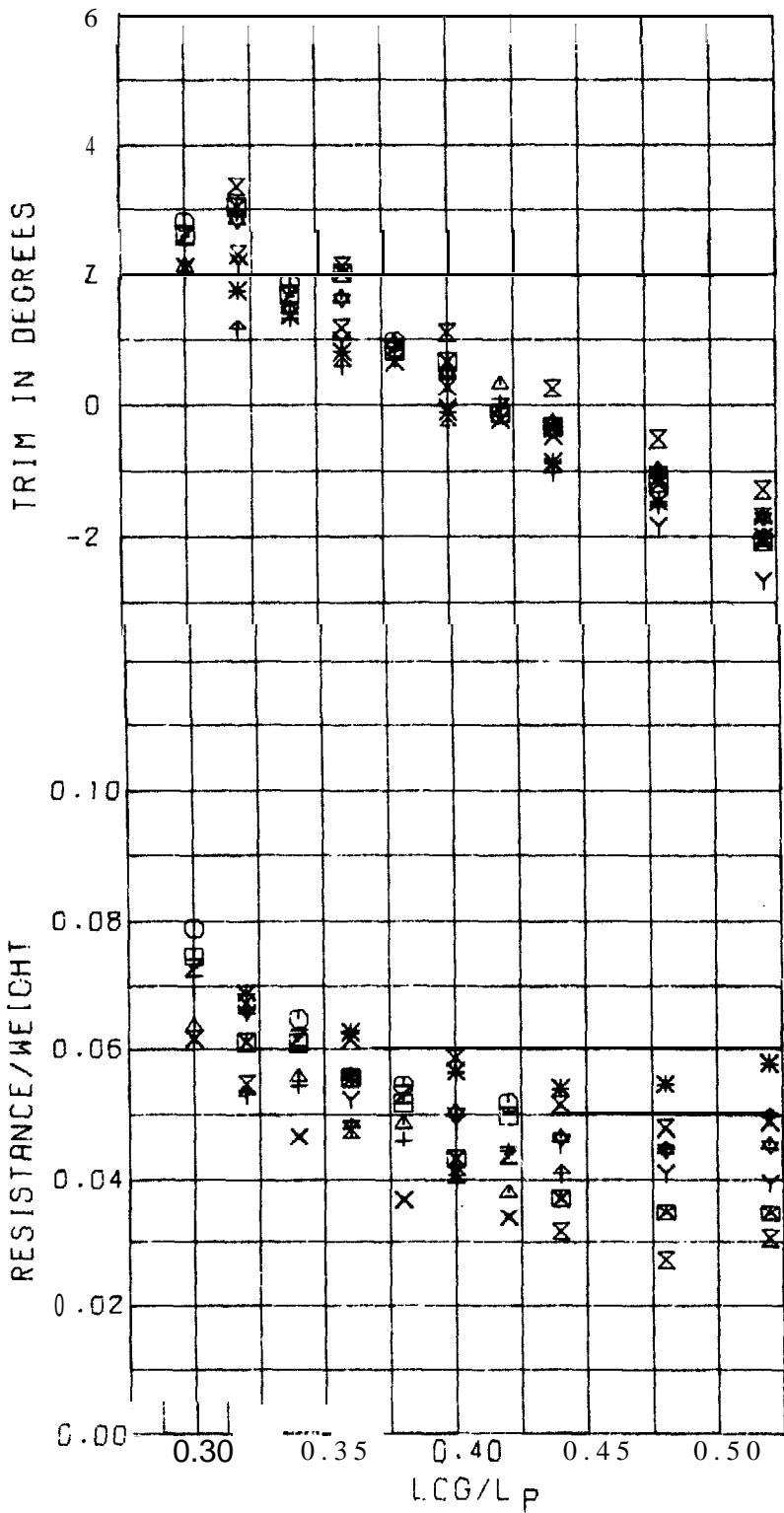
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ∞ | 5204 | 9.34 | 20.5 |
| γ | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| × | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| ∞ | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 9.0$$

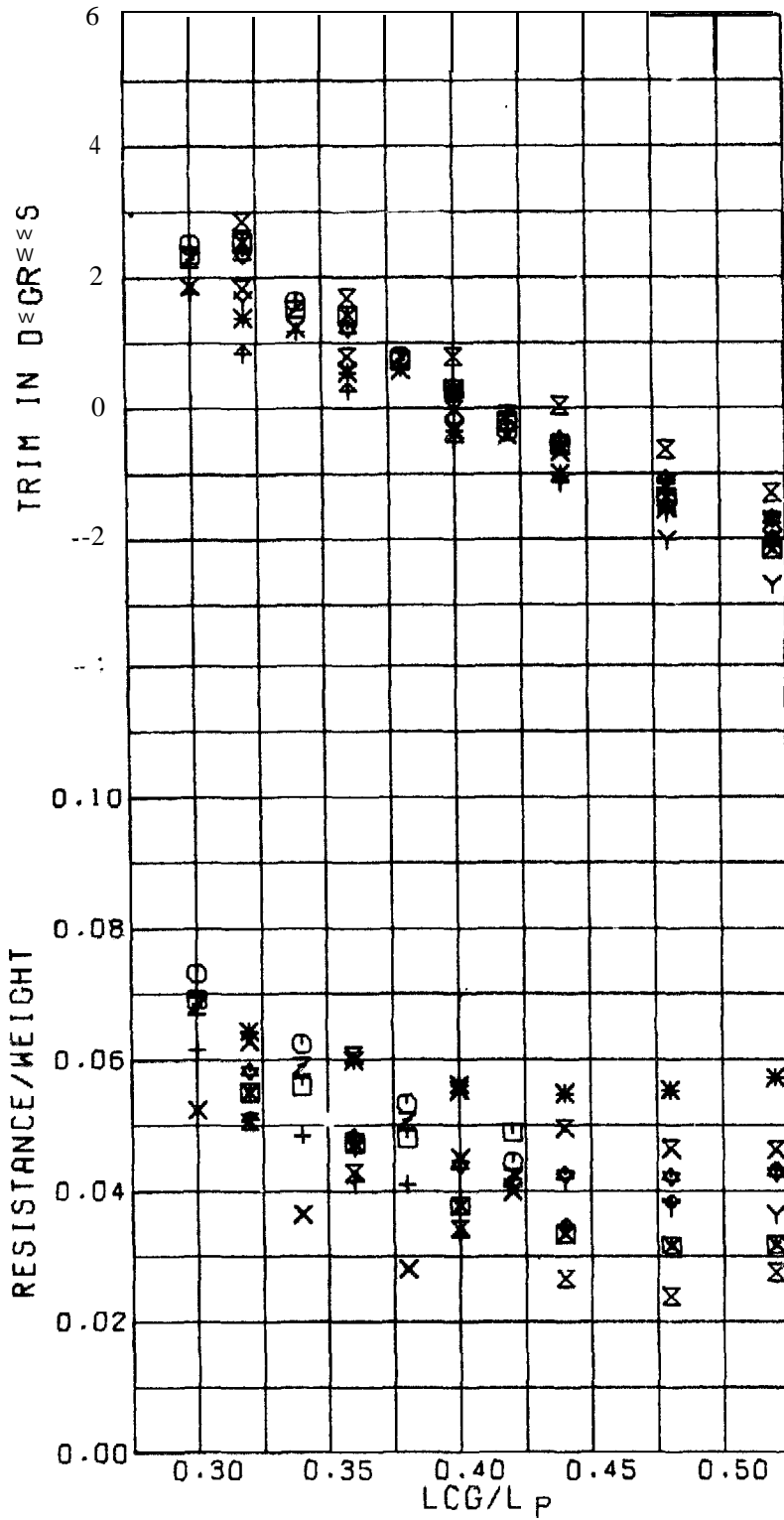
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| + | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| + | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| + | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P / \nabla^{1/3} = 9.5$$

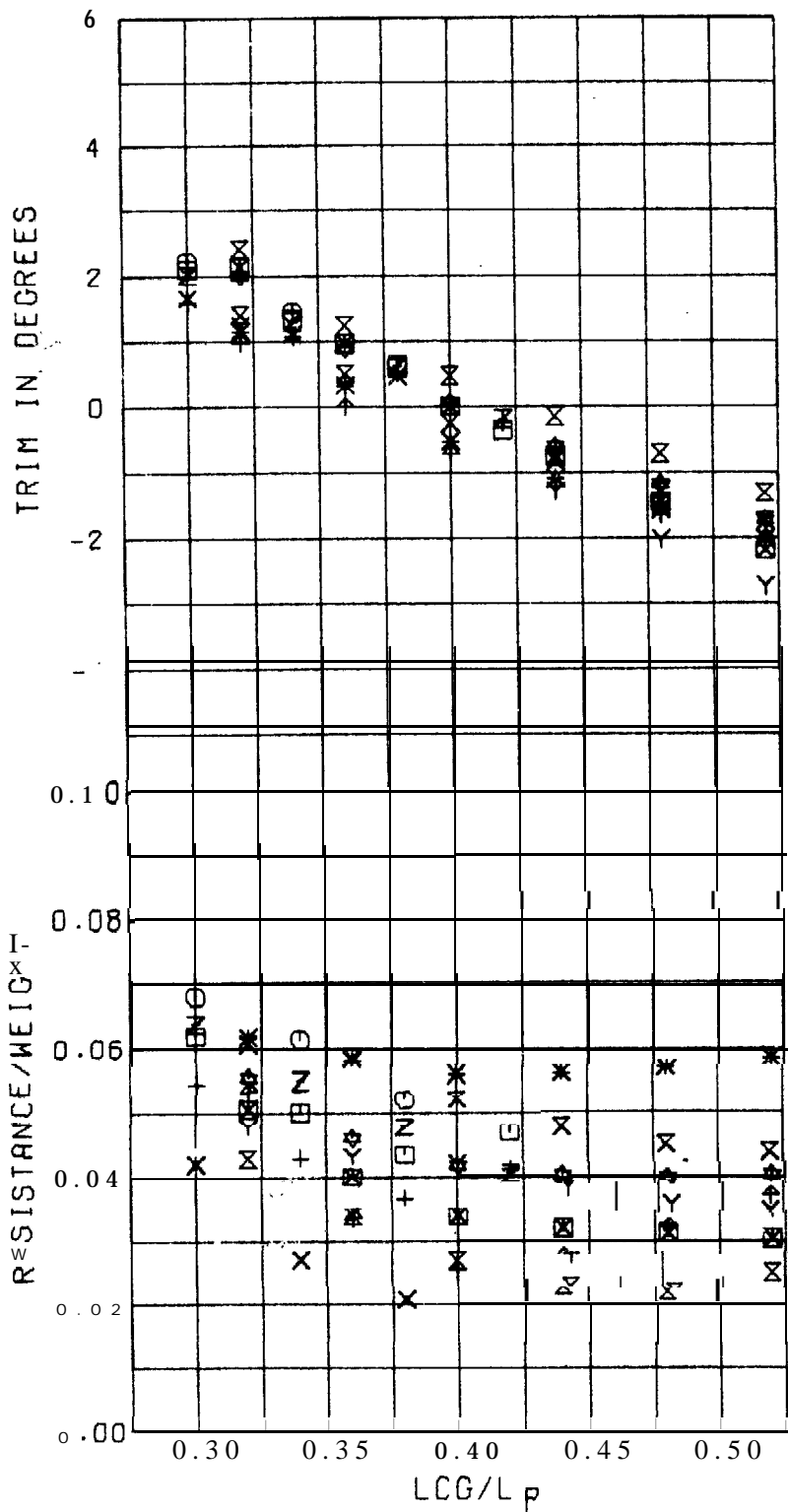
$$F_{N \nabla} = 1.50$$



| SYMBOL | MODEL | L_P / B_{PX} | β_T |
|--------|--------|----------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| O | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P/\nabla^{1/3} = 10.0$$

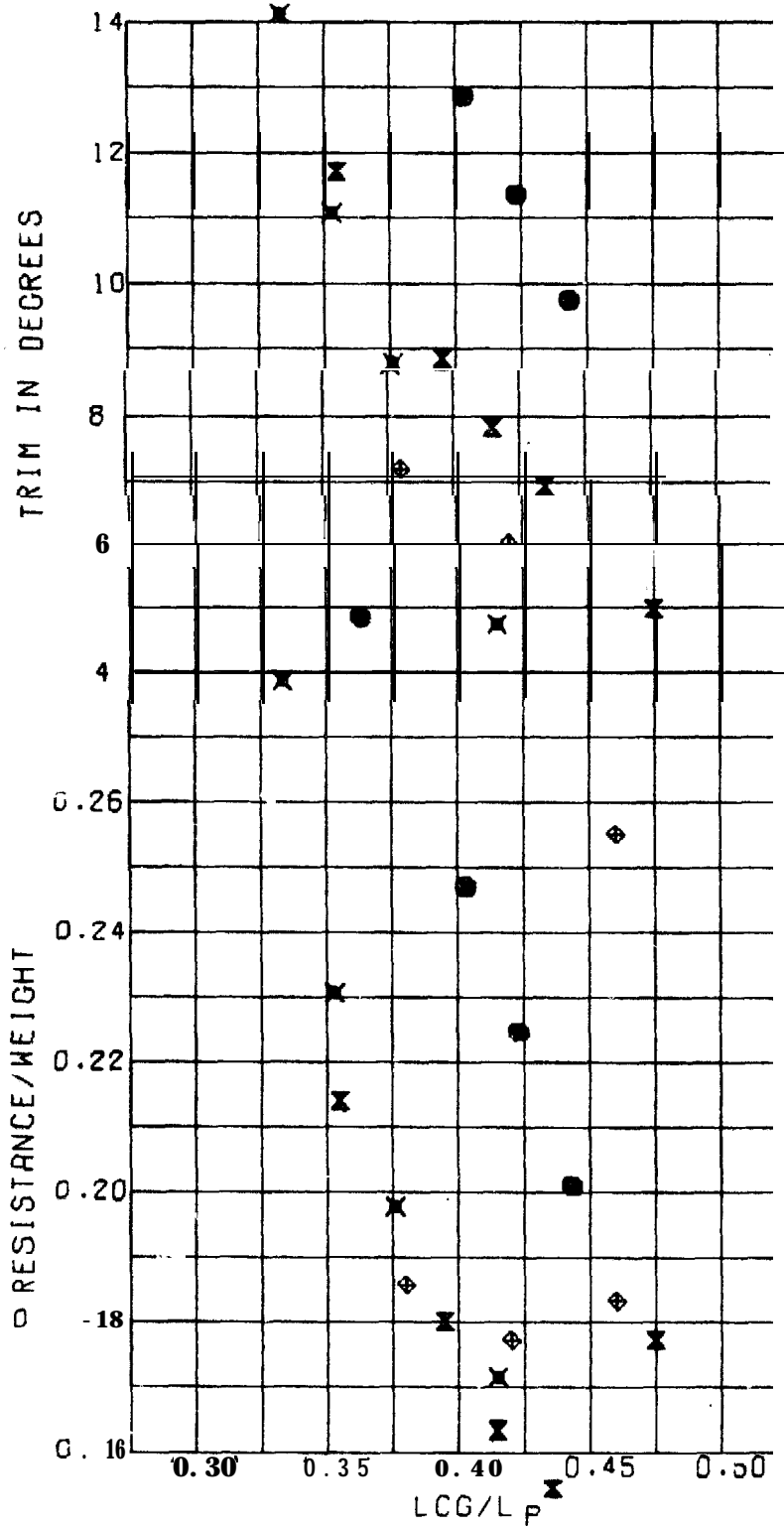
$$F_{N\nabla} = 1.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊙ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_p / \nabla^{1/3} = 4.0$$

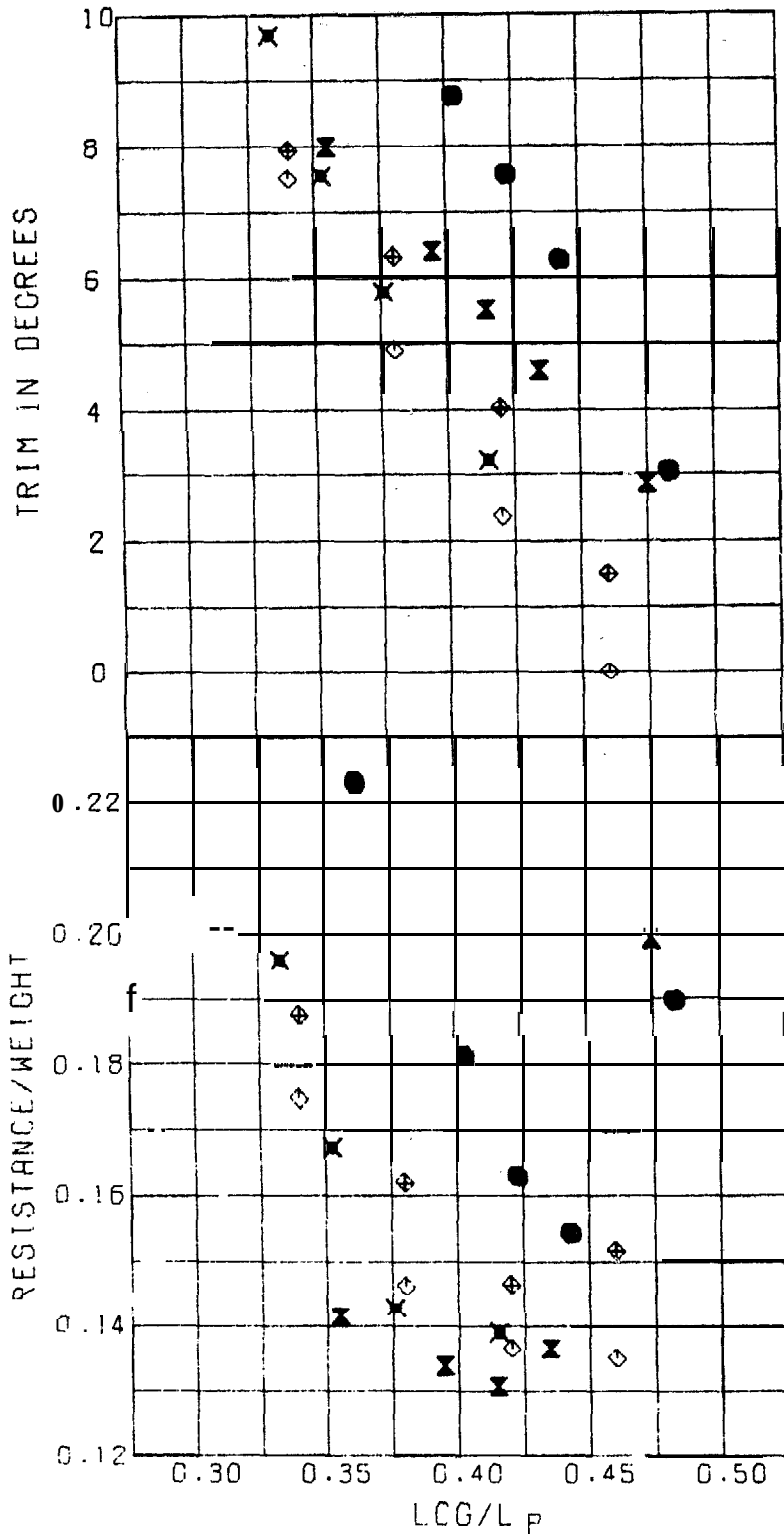
$$F_{N \nabla} = 1.75$$



SYMBOL MODEL $L_p / B_p \times \beta_T$

| | | | |
|---|----------|------|------|
| ◇ | 5237 | 2.35 | 16.3 |
| × | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| * | O L 62-A | 3.06 | 13.0 |

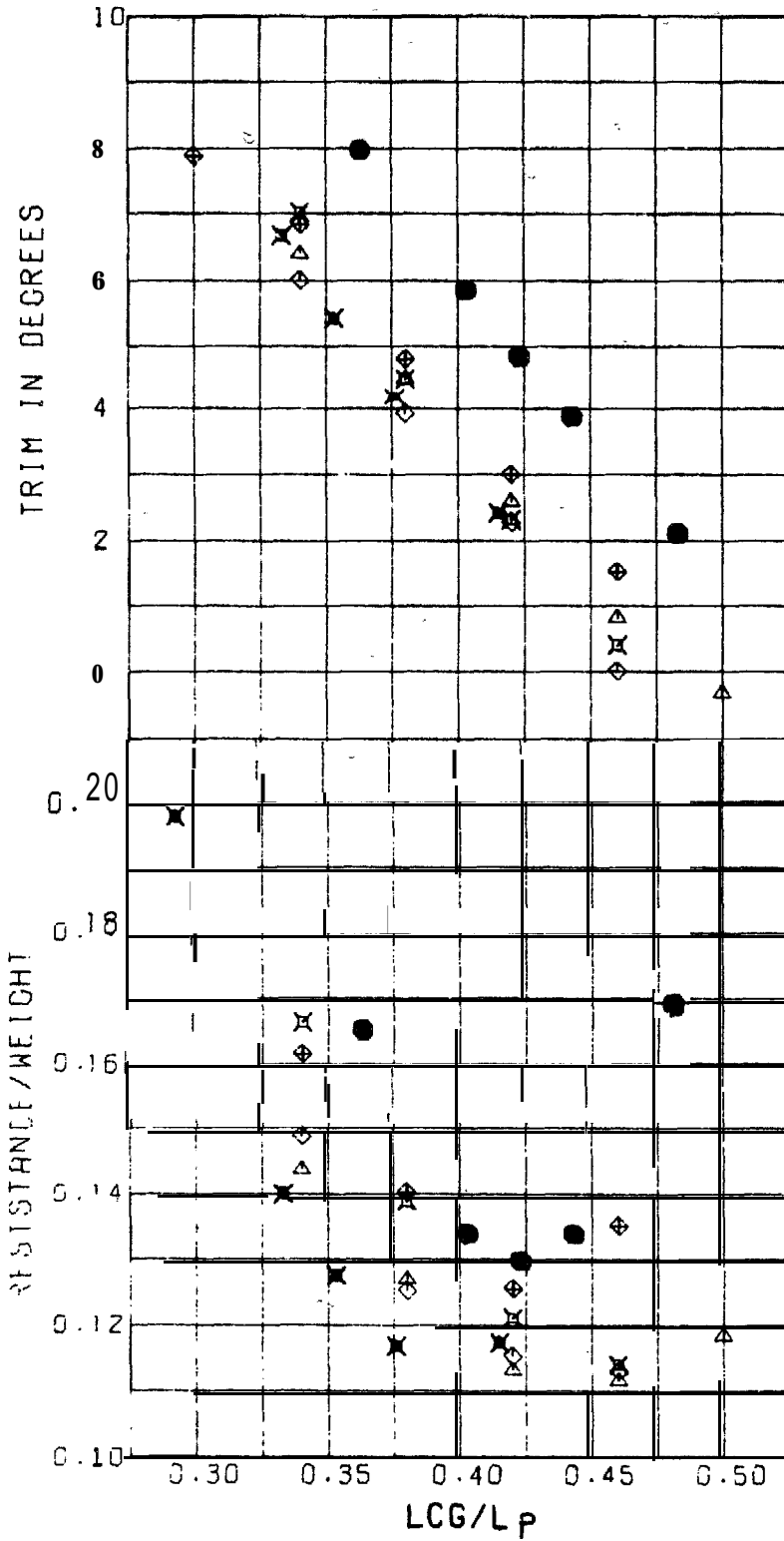
$$L_p/\nabla^{1/3} = 4.5 \quad F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◊ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ✕ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-A | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 5.0$$

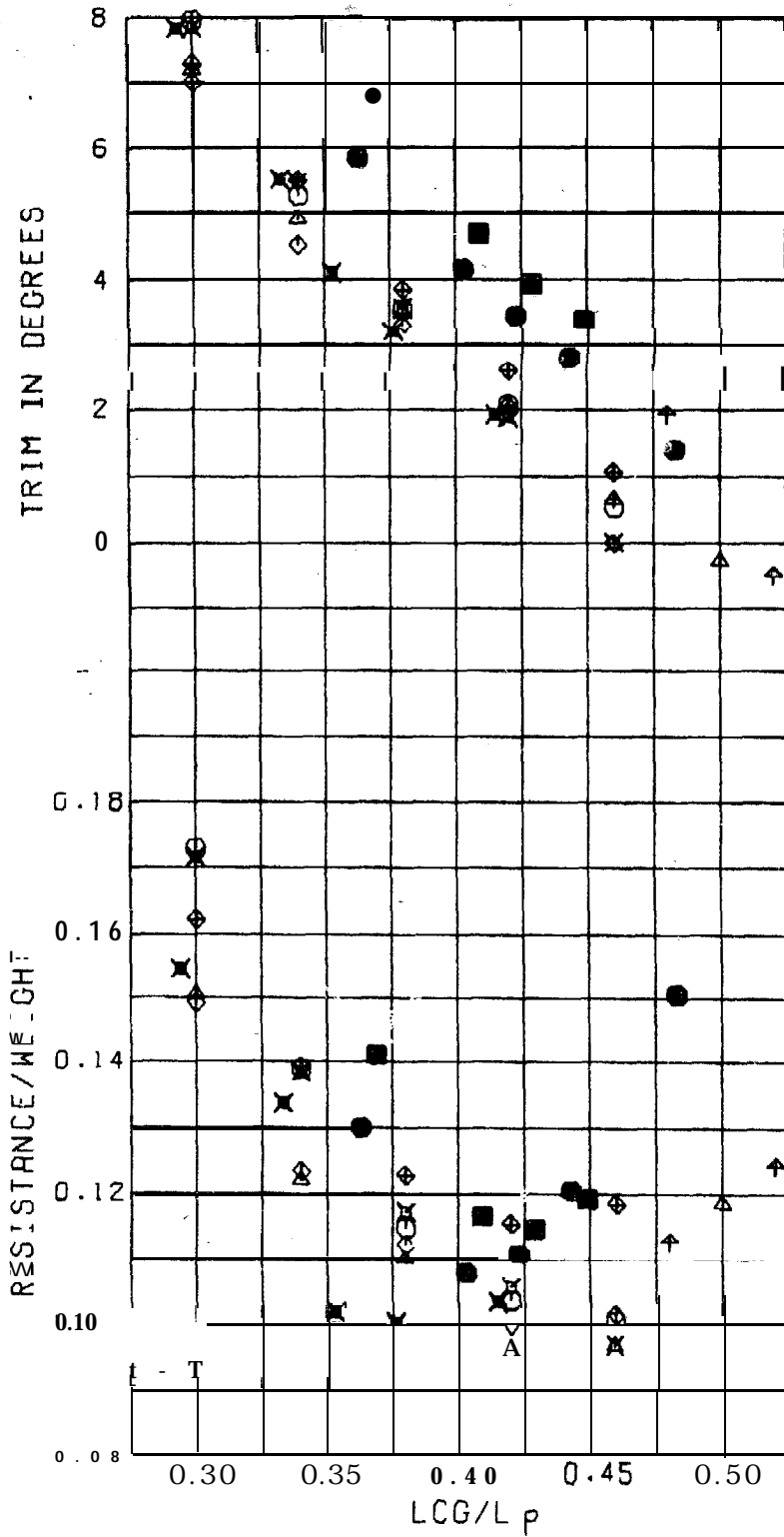
$$F_{NV} = 1.75$$



| SYMBOL | MDEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ✕ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-A | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.5$$

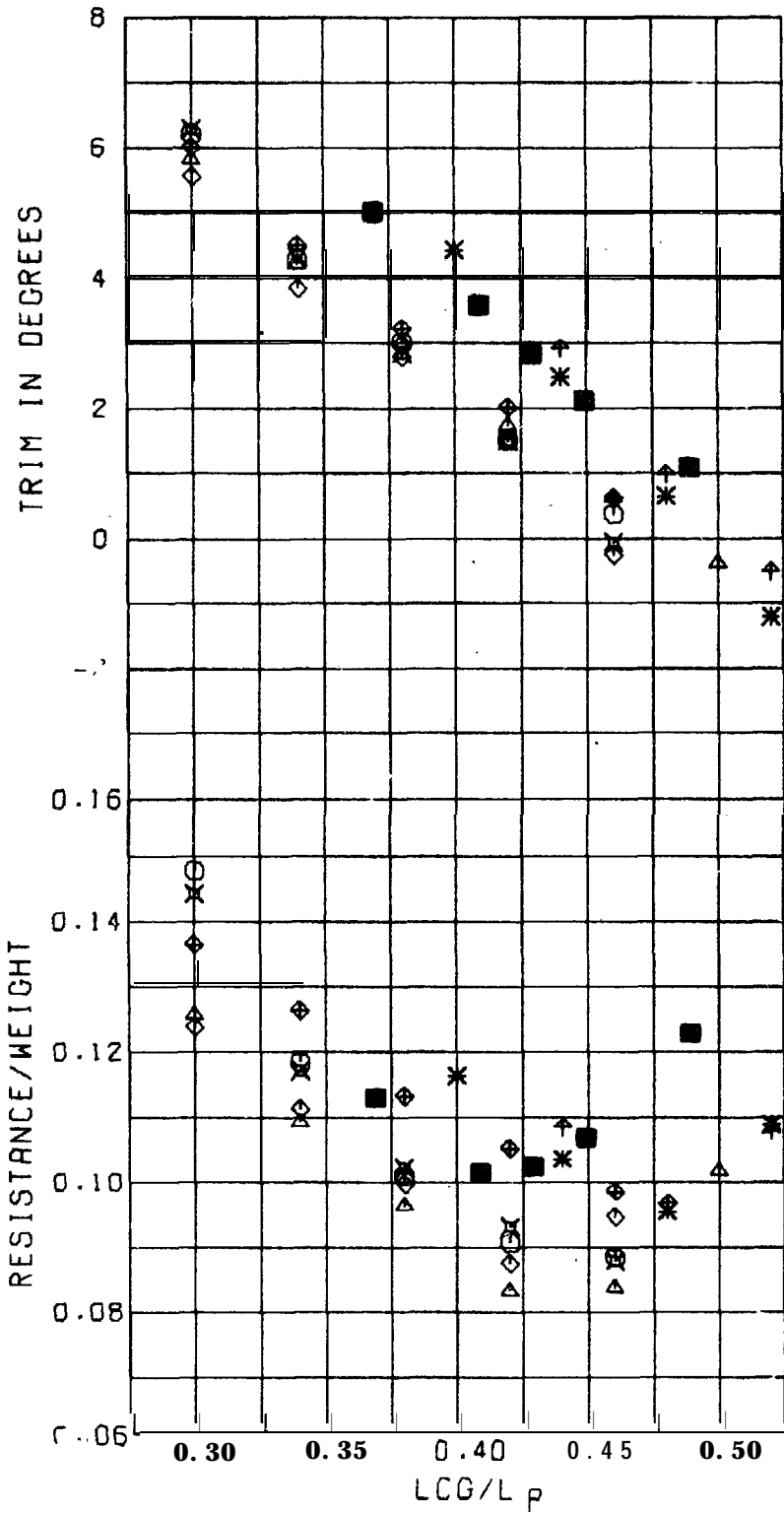
$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L _p /B _{PX} | β _T |
|--------|---------------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| × | 5236 | 4.69 | 3G.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| × | DL 62-A | 3.06 | 13.0 |

$$L_P / \nabla^{1/3} = 6.0$$

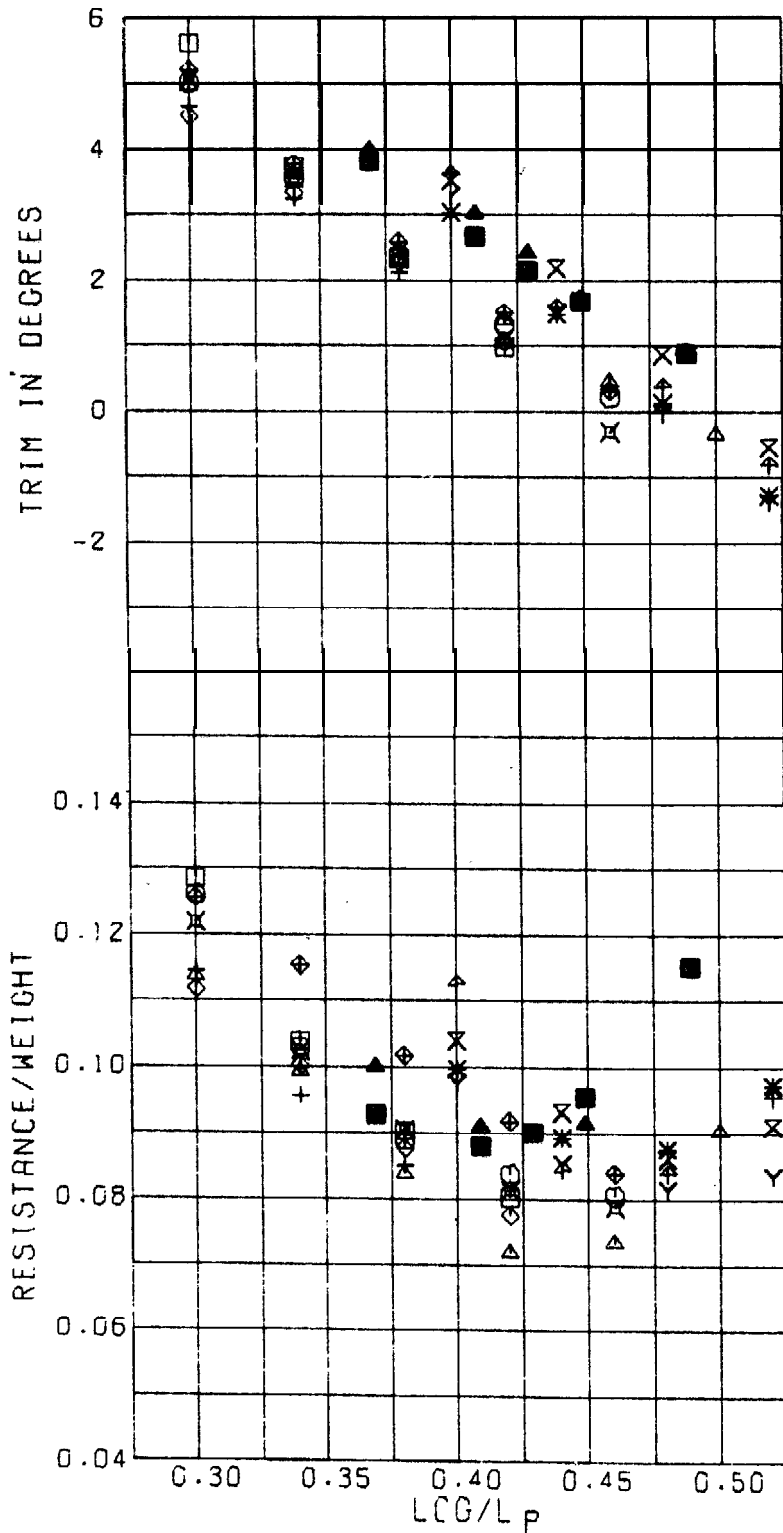
$$F_{N \nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| † | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◇ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 5.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| a | 4667-1 | 4.09 | 12.5 |

$$L_p / \nabla^{1/3} = 6.5$$

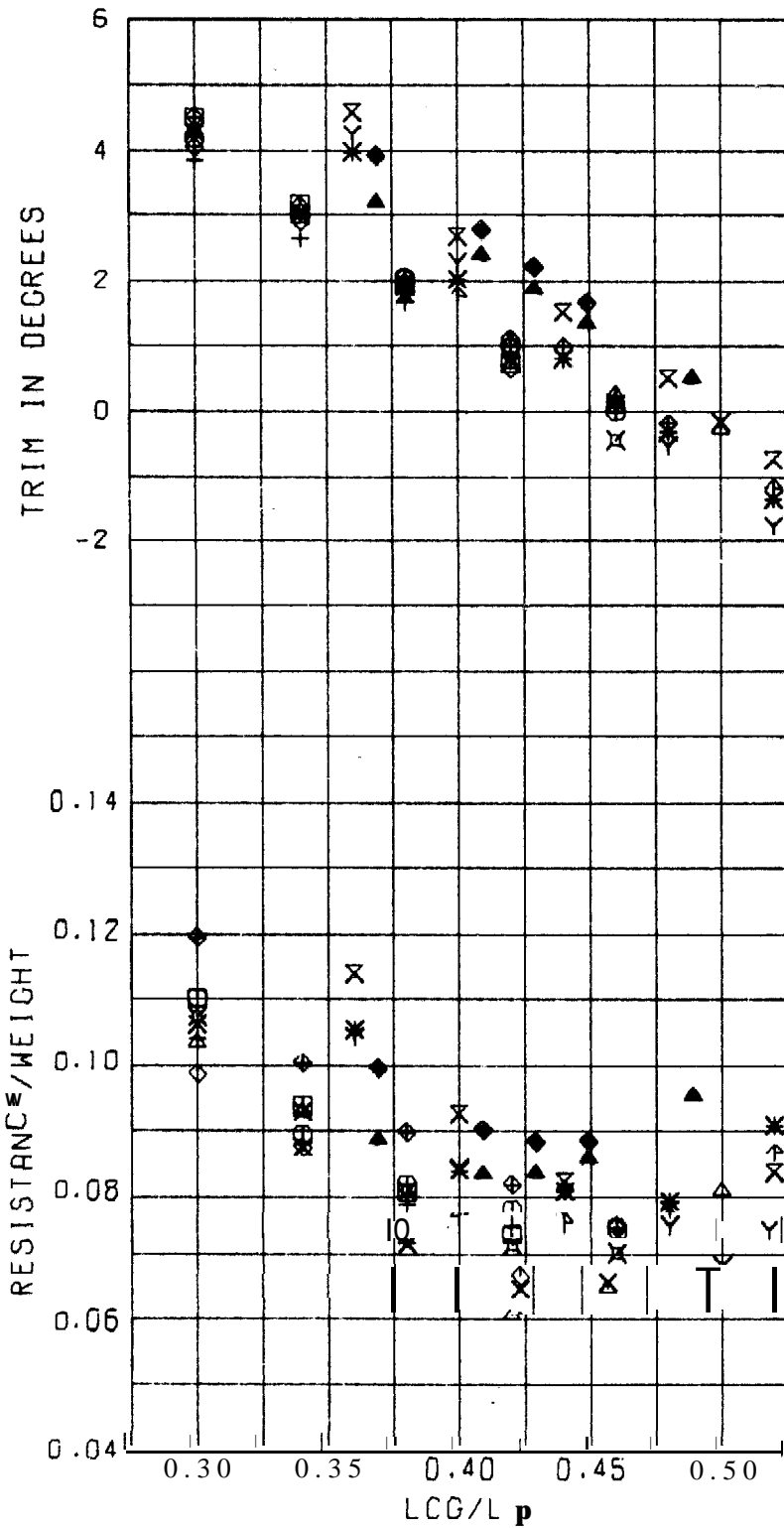
$$F_{N \nabla} = 1.75$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| x | 52-49 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.3s | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| □ | 5184 | 4.69 | 22.5 |
| x | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0.$$

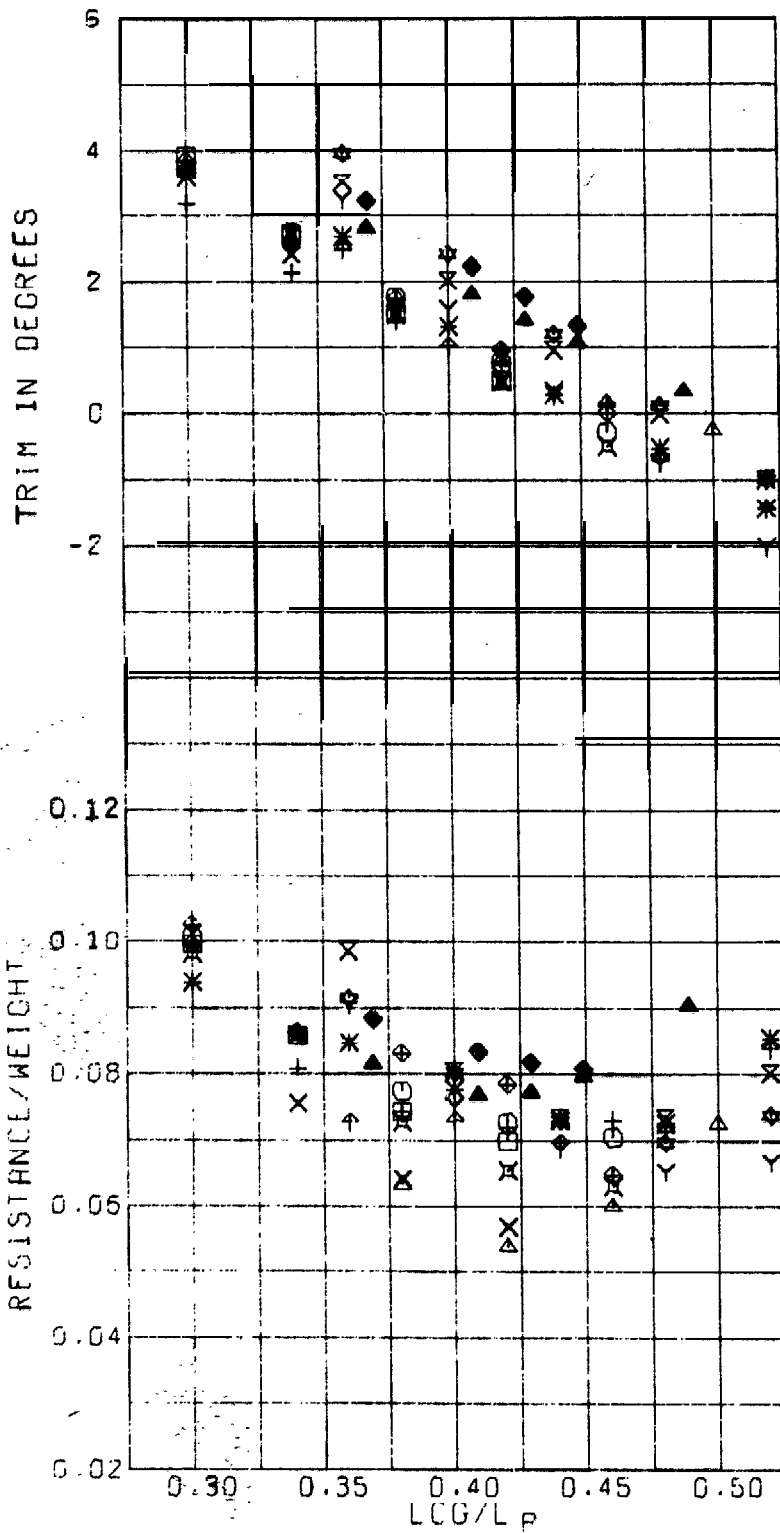
$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| ∧ | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | LG.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| ▲ | 4666 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.1 |

$$L_p/\nabla^{1/3} = 7.5$$

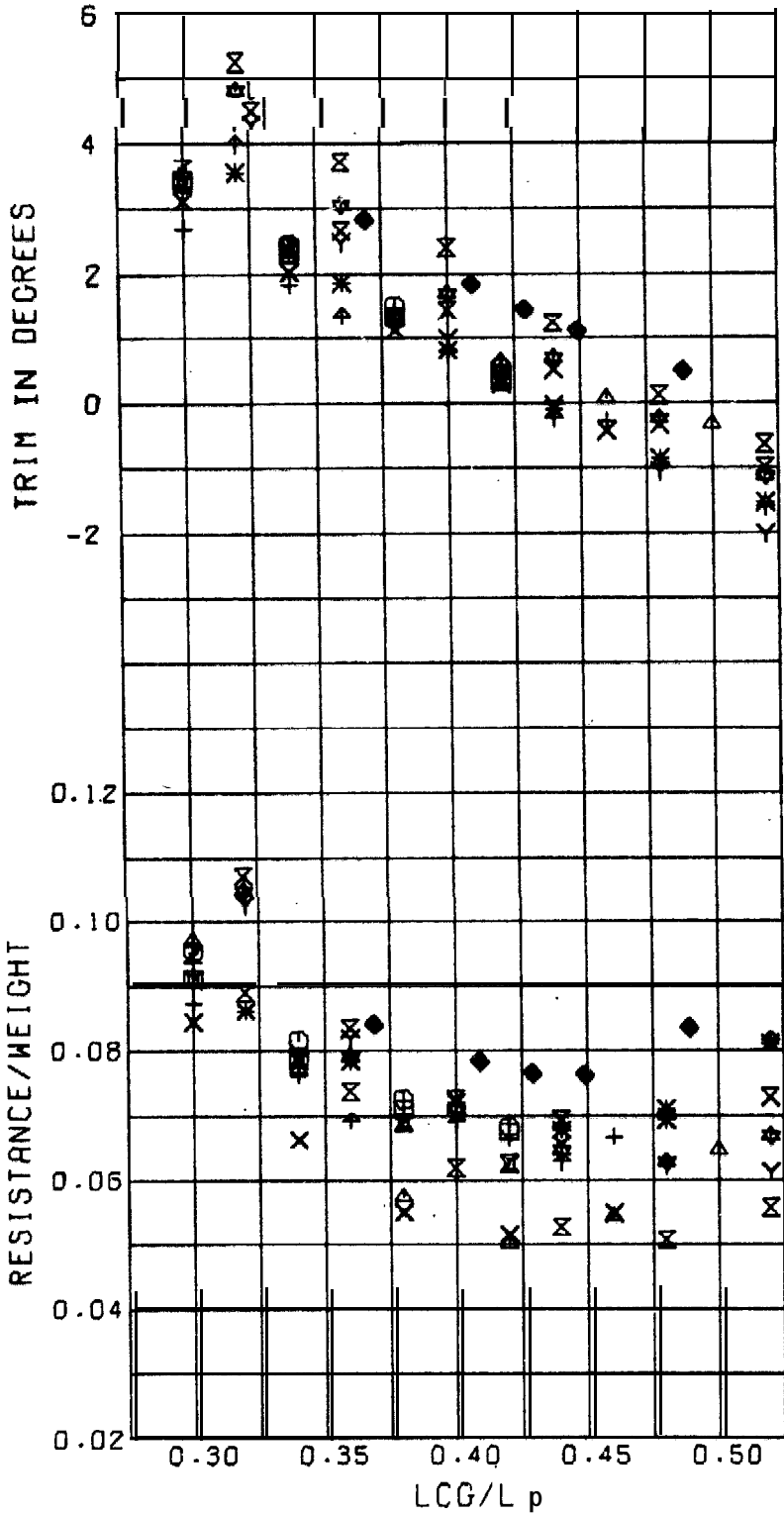
$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L _p /B _{pX} | β _T |
|--------|--------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊙ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

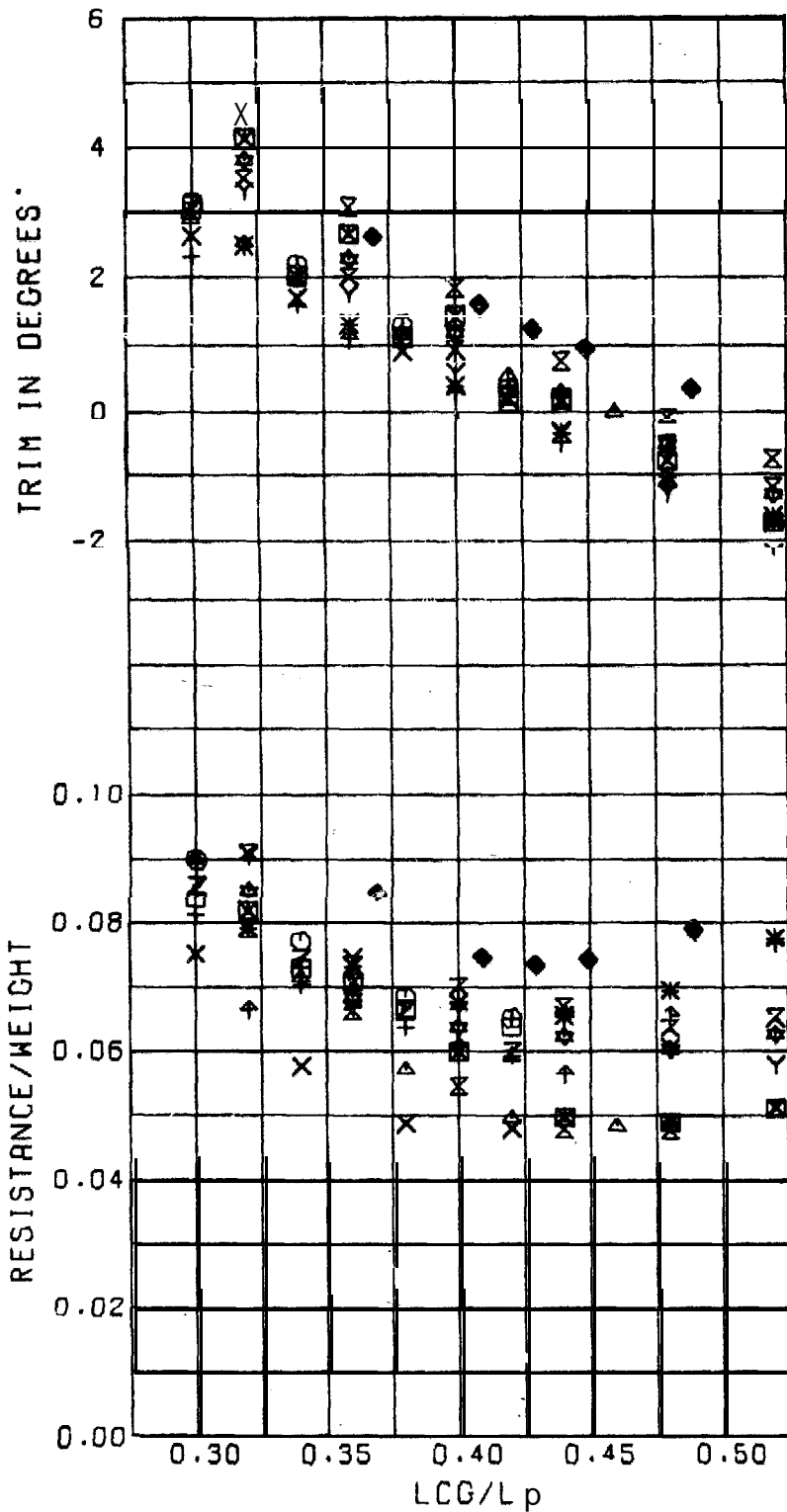
$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

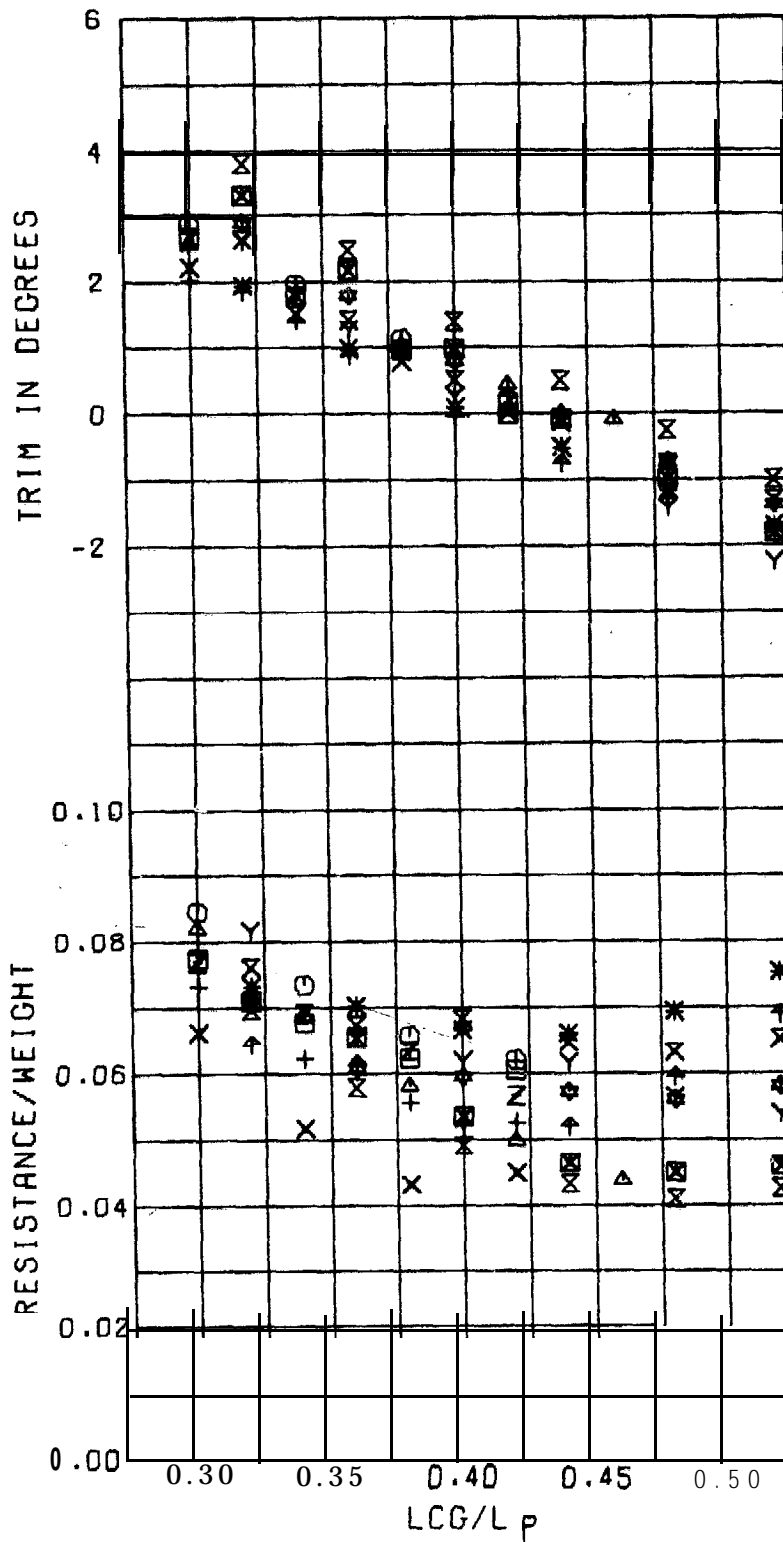
$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 524G | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5104 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

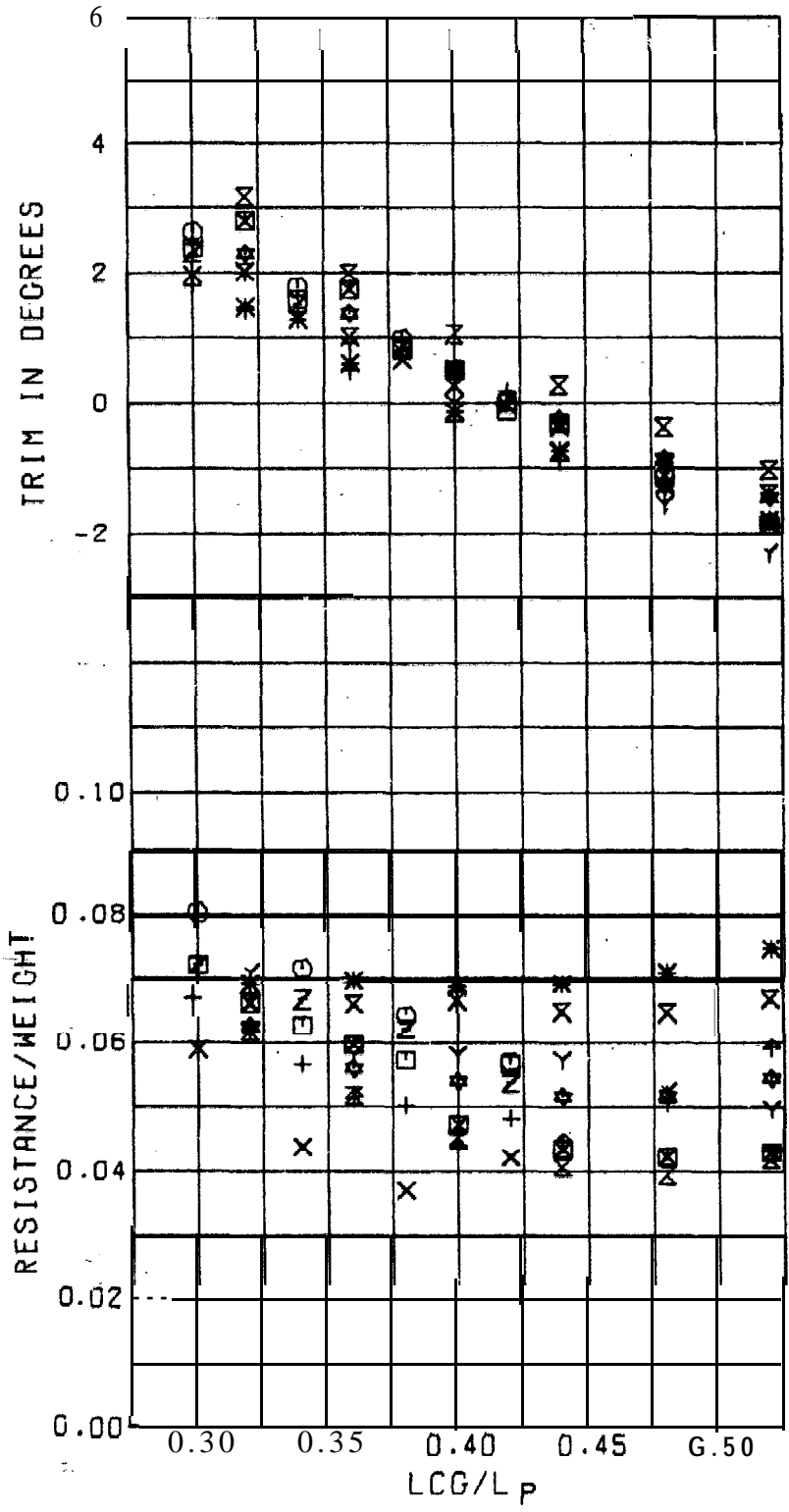
$$L_P/\nabla^{1/3} = 9.0$$

$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊙ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

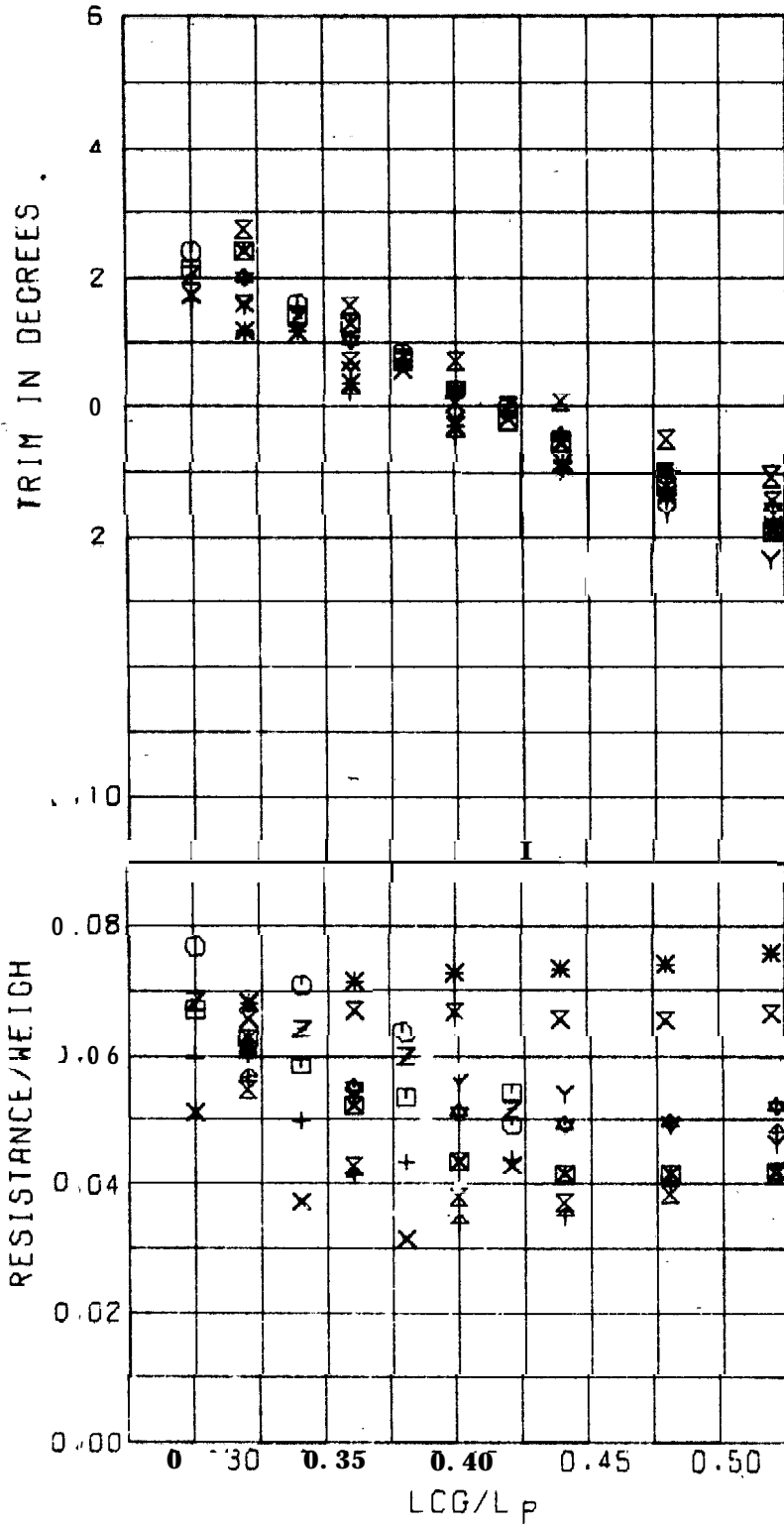
$L_P/\nabla^{1/3} = 9.5$ $F_{NV} = 1.75$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊙ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| cl | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

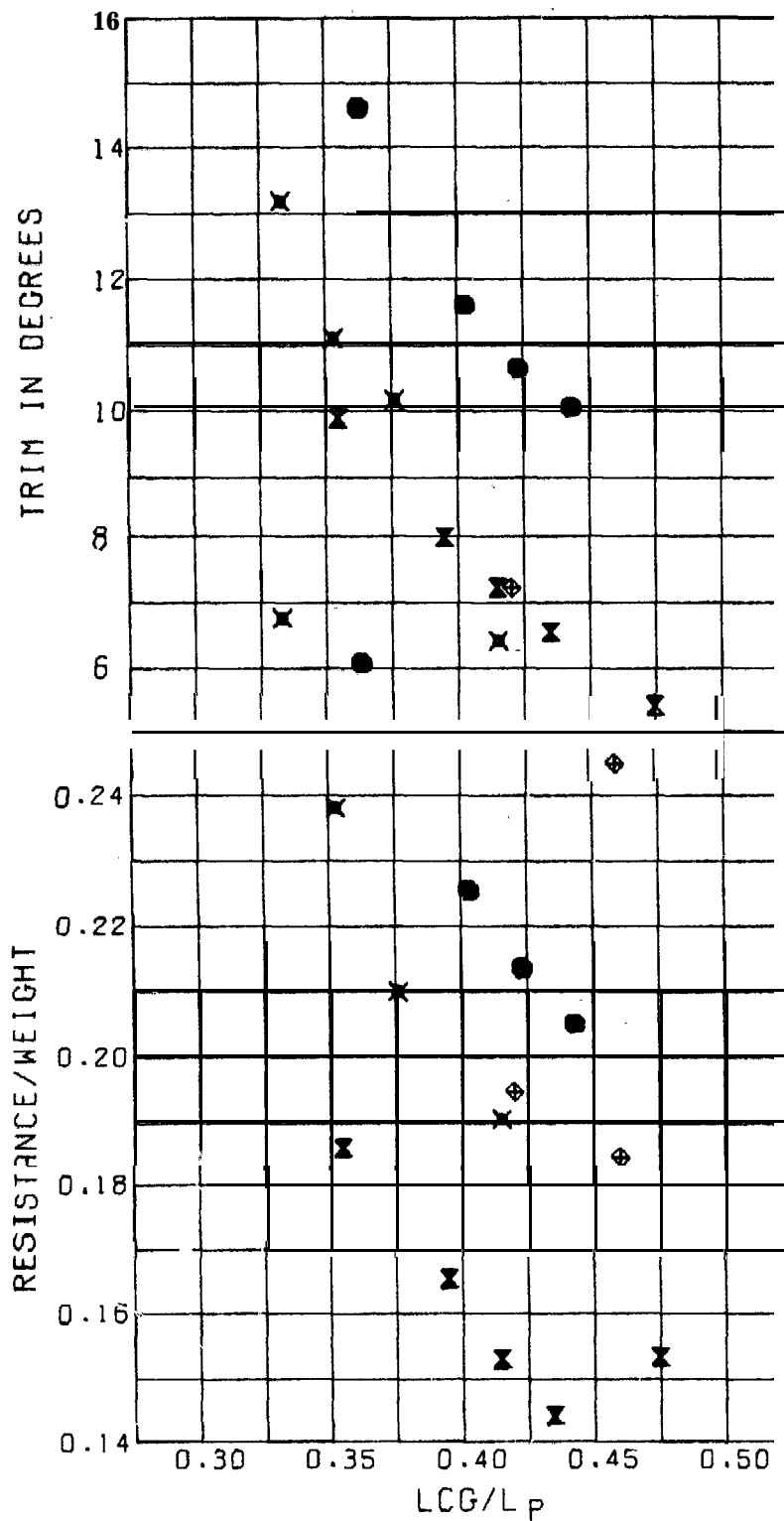
$$L_P/\nabla^{1/3} = 10.0$$

$$F_{N\nabla} = 1.75$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| * | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| * | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

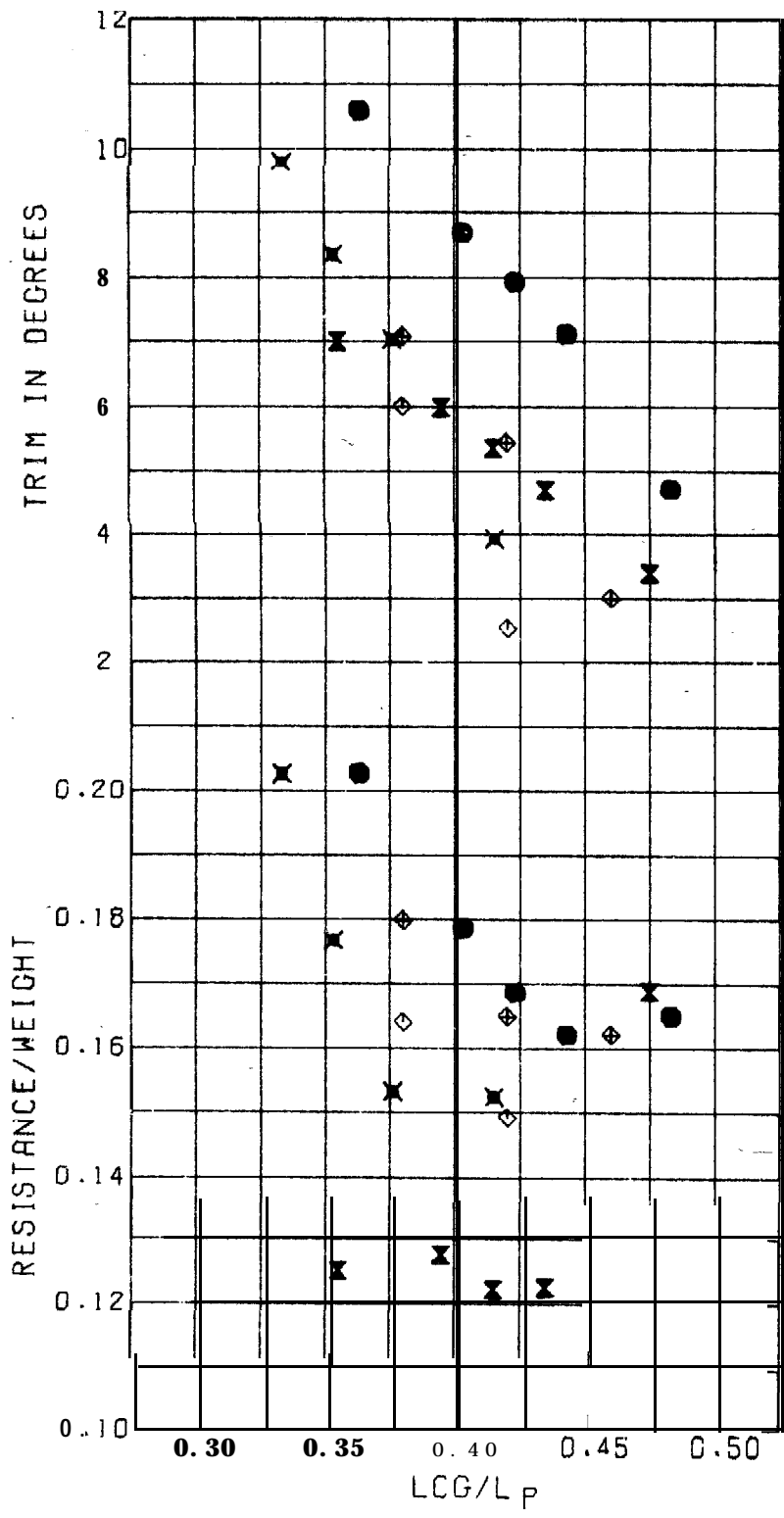
$$L_P/\nabla^{1/3} = 4.0 \quad F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ✕ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 4.5$$

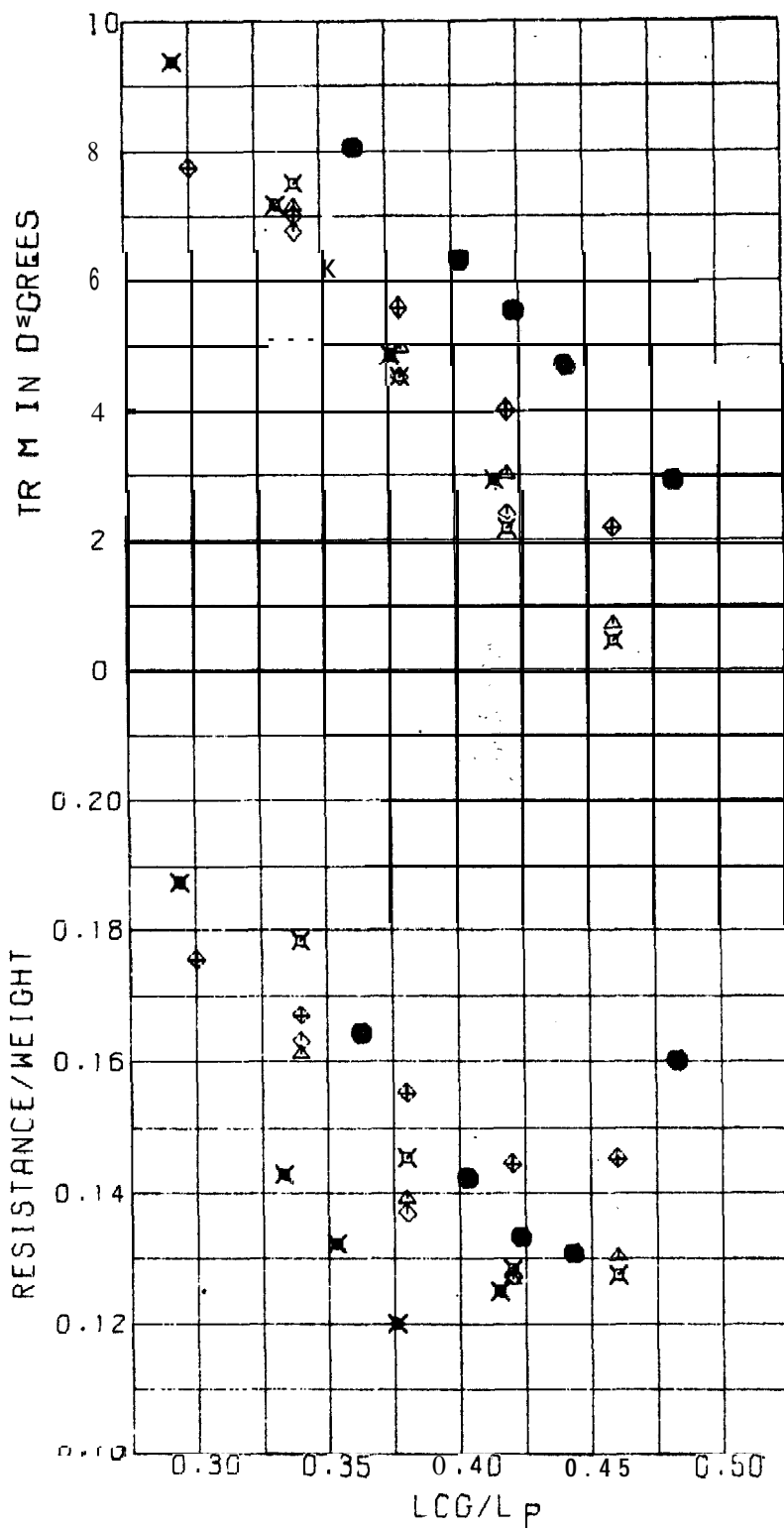
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| × | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| × | DL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.0$$

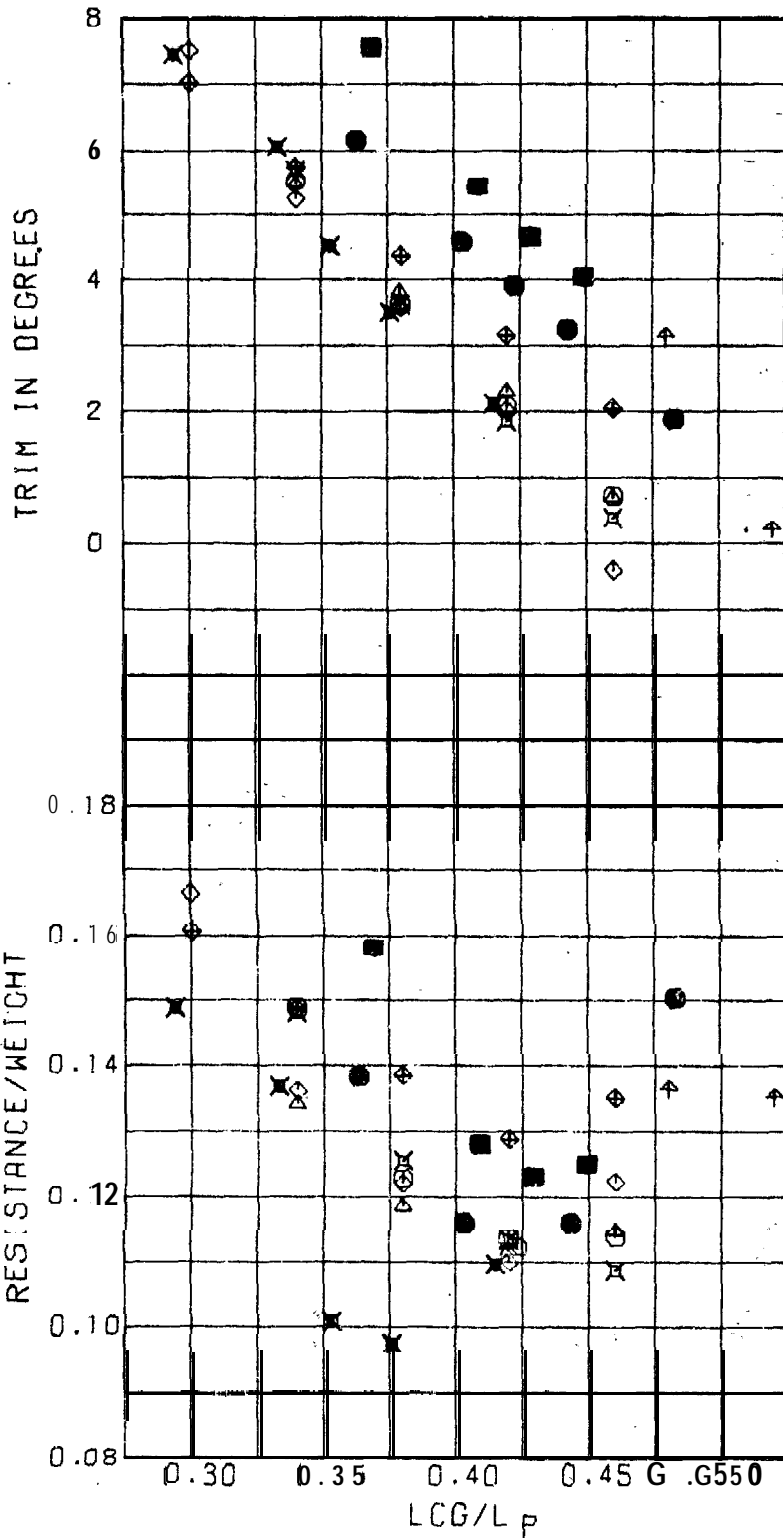
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_p/B_{pX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ✕ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-A | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.5$$

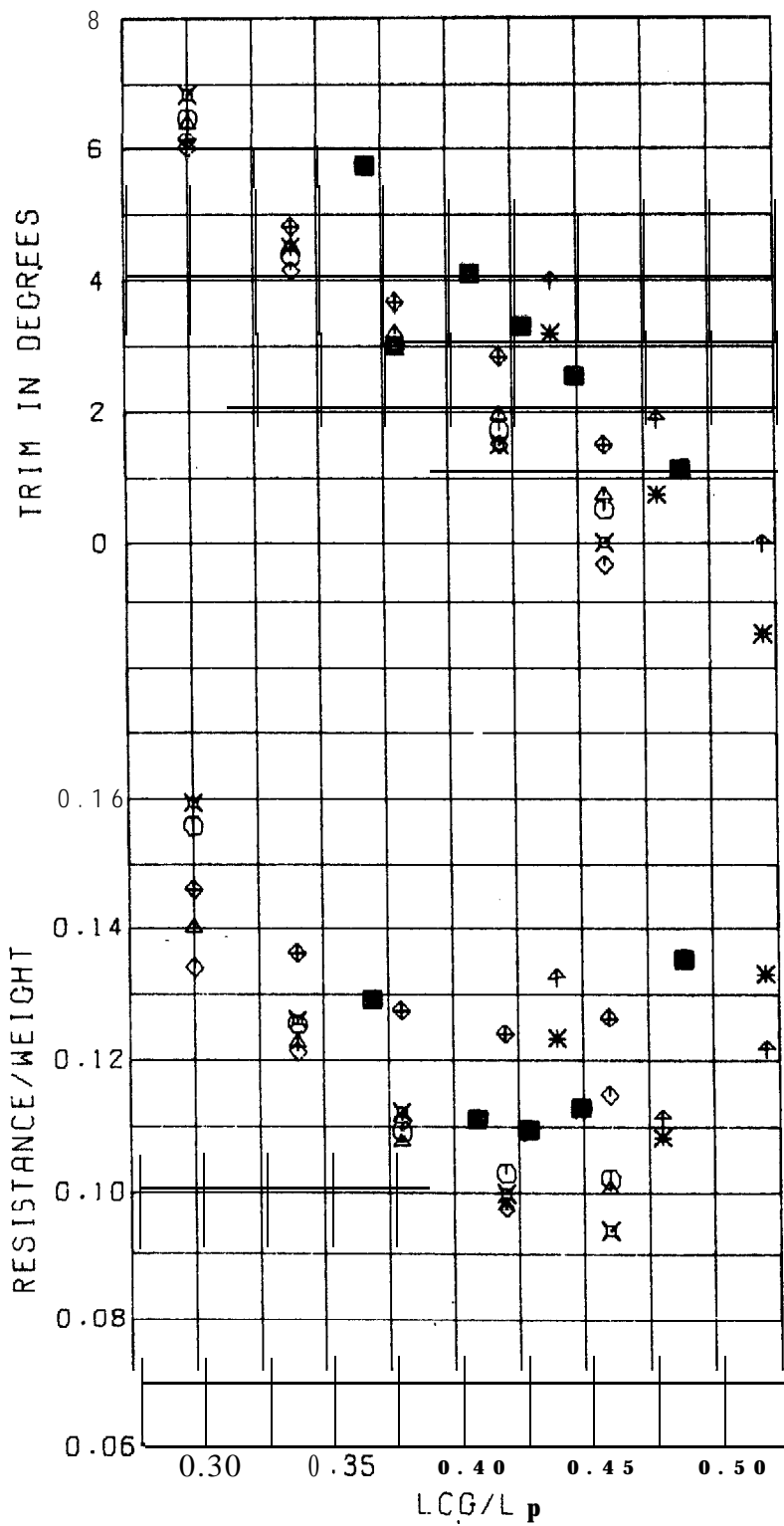
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L _p /B _{PX} | β _T |
|--------|---------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ⊗ | OL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 6.0$$

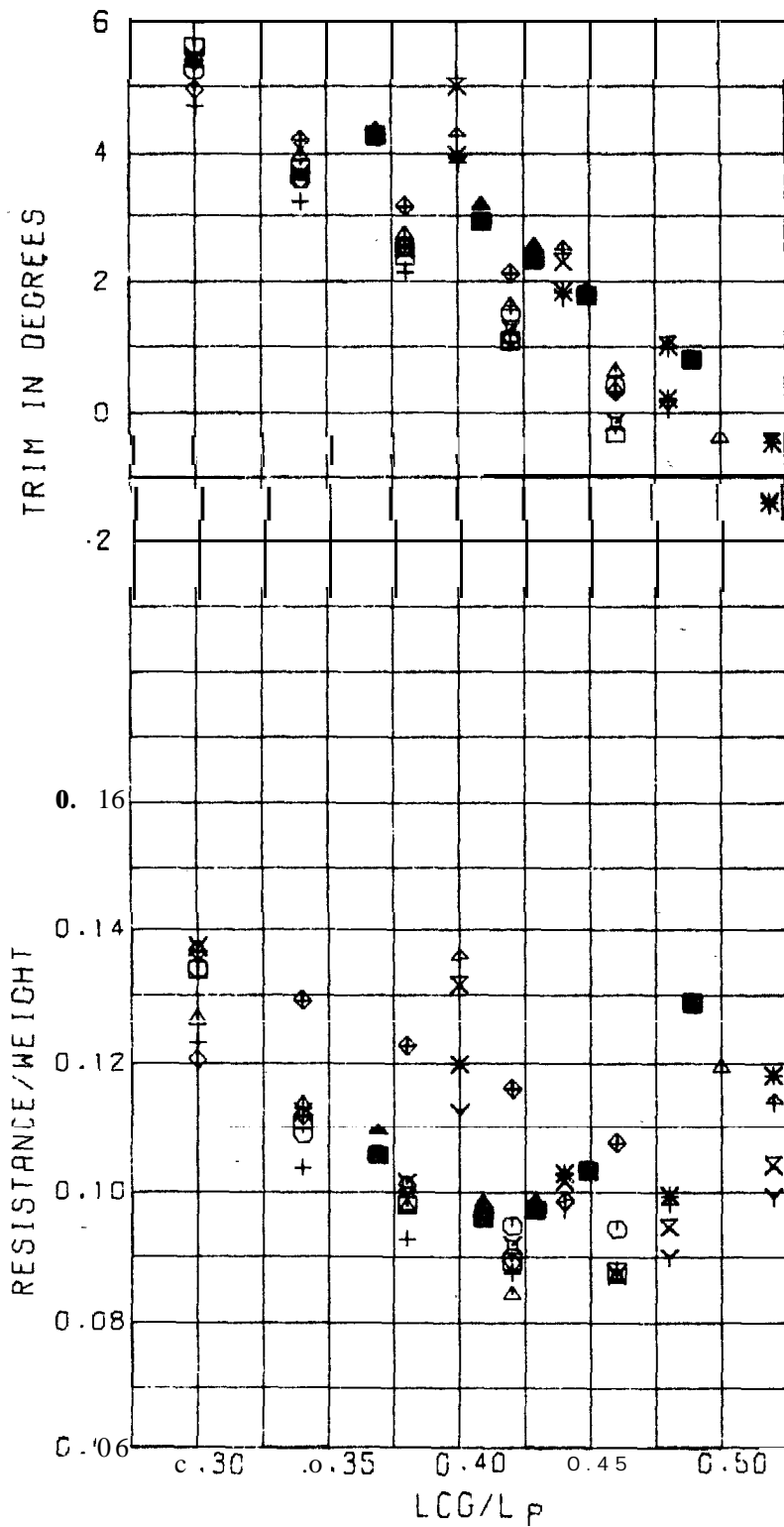
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ♣ | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ♠ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5166 | 3.32 | 22.5 |
| ○ | 5164 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

$$L_P/\nabla^{1/3} = 6.5$$

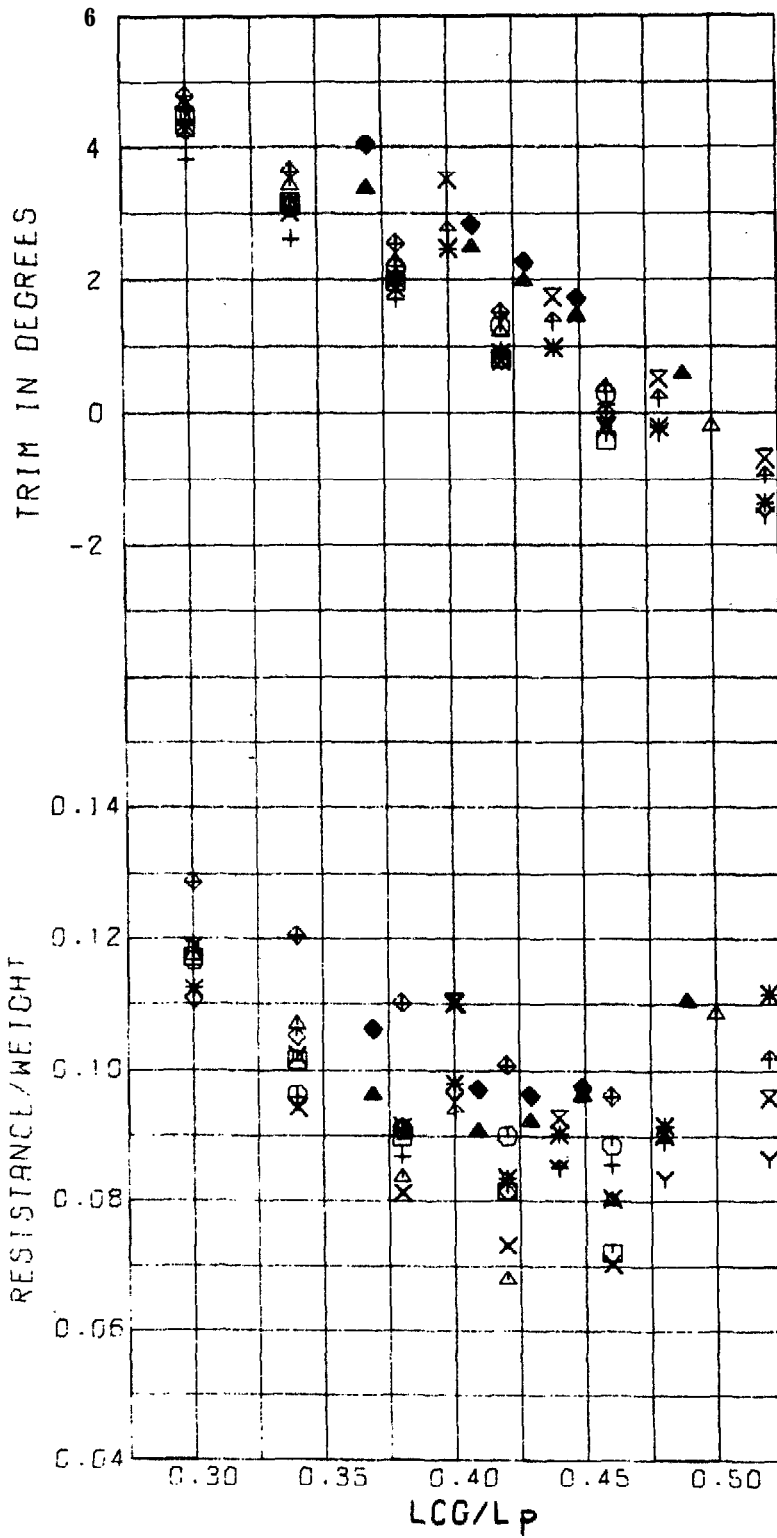
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| x | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 3.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| x | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667- | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_p / \nabla^{1/3} = 7.0$$

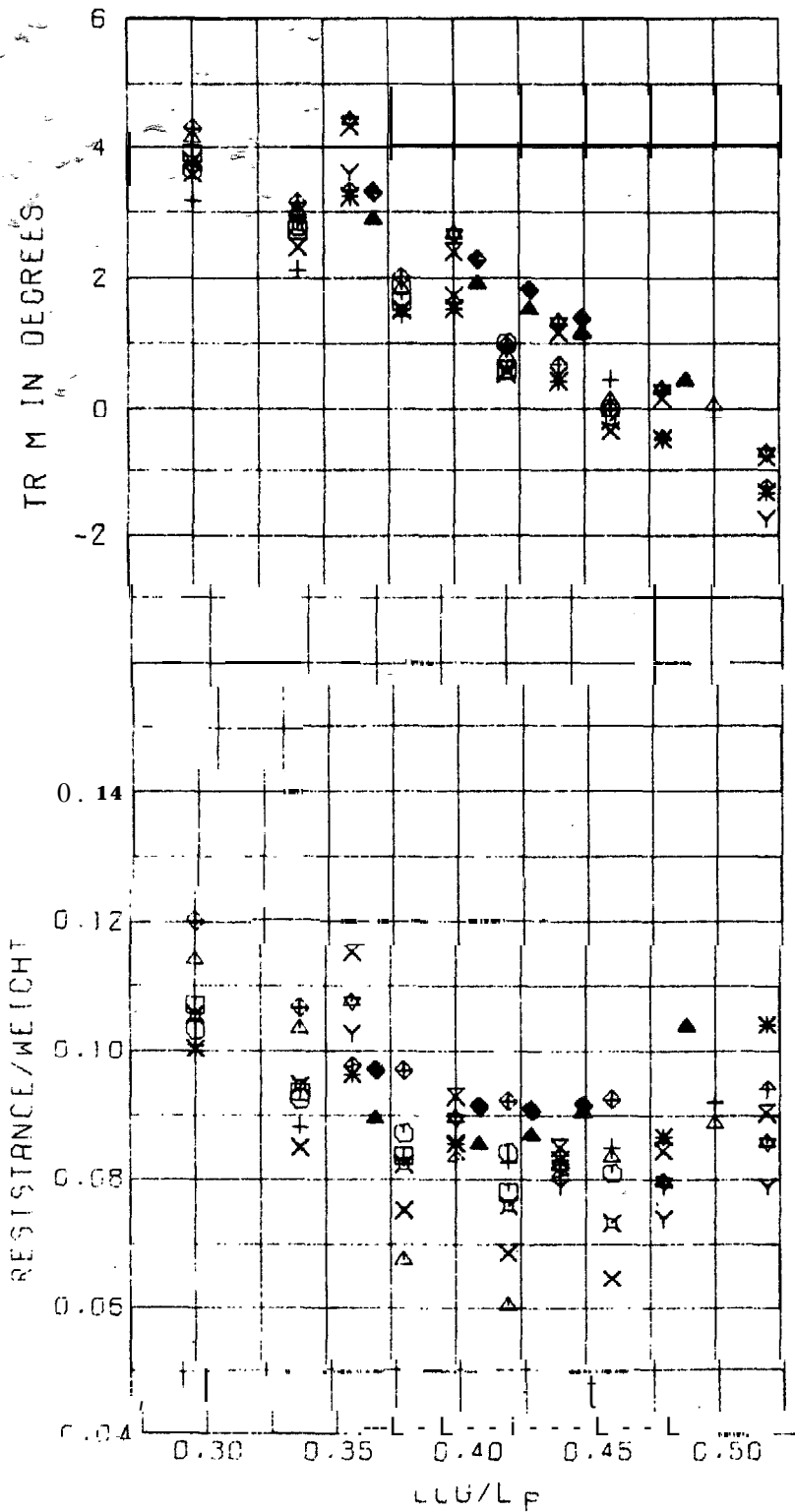
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla = 173 = 7.5$$

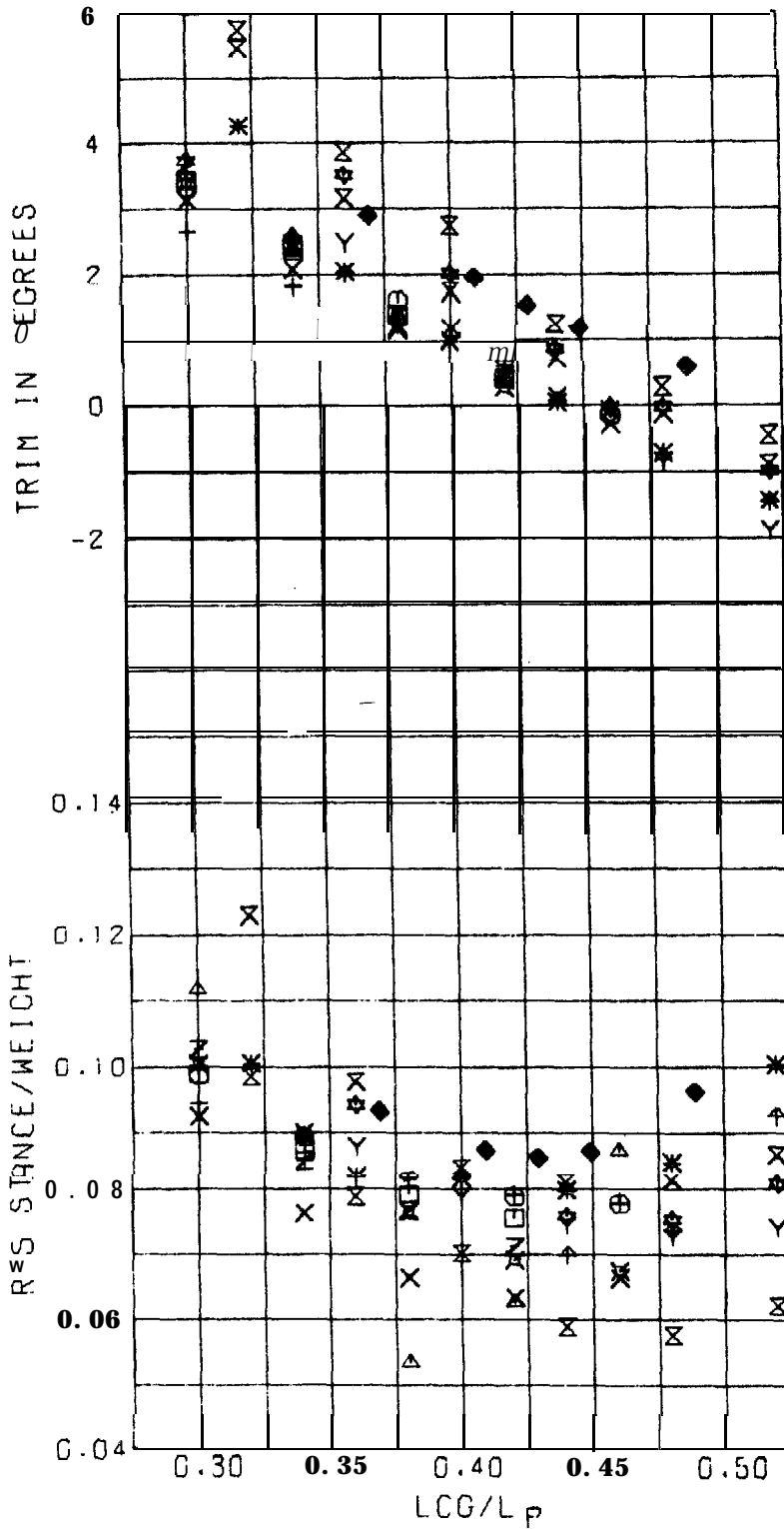
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| x | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ∇ | 5250 | 6.60 | 27.7 |
| ⊕ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.09 | 16.3 |
| ⊕ | 5184 | 4.09 | 22.5 |
| x | 5167 | 6.64 | 22.5 |
| ⊕ | 5236 | 4.69 | 30.4 |
| ⊕ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

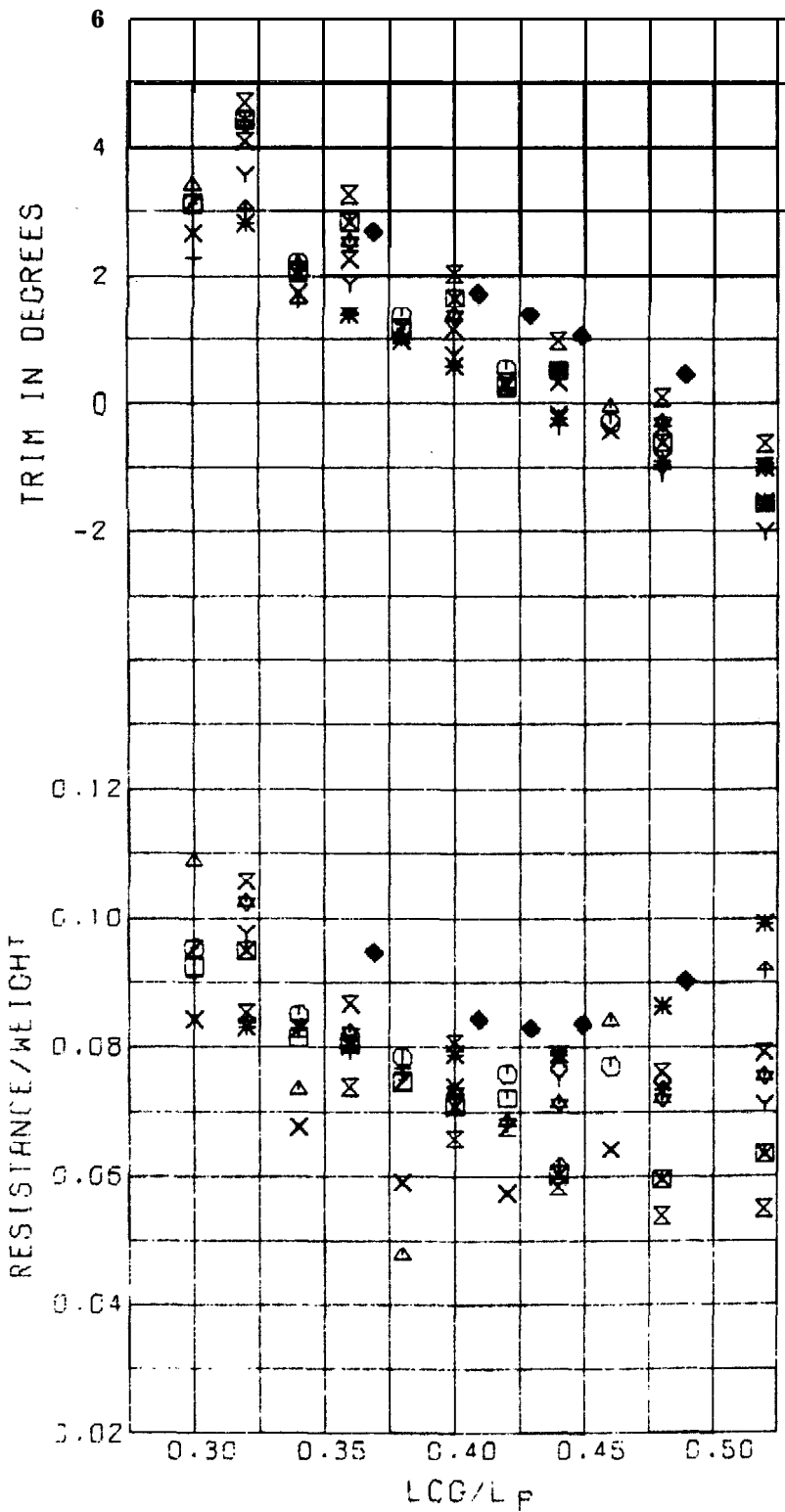
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 0.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| X | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

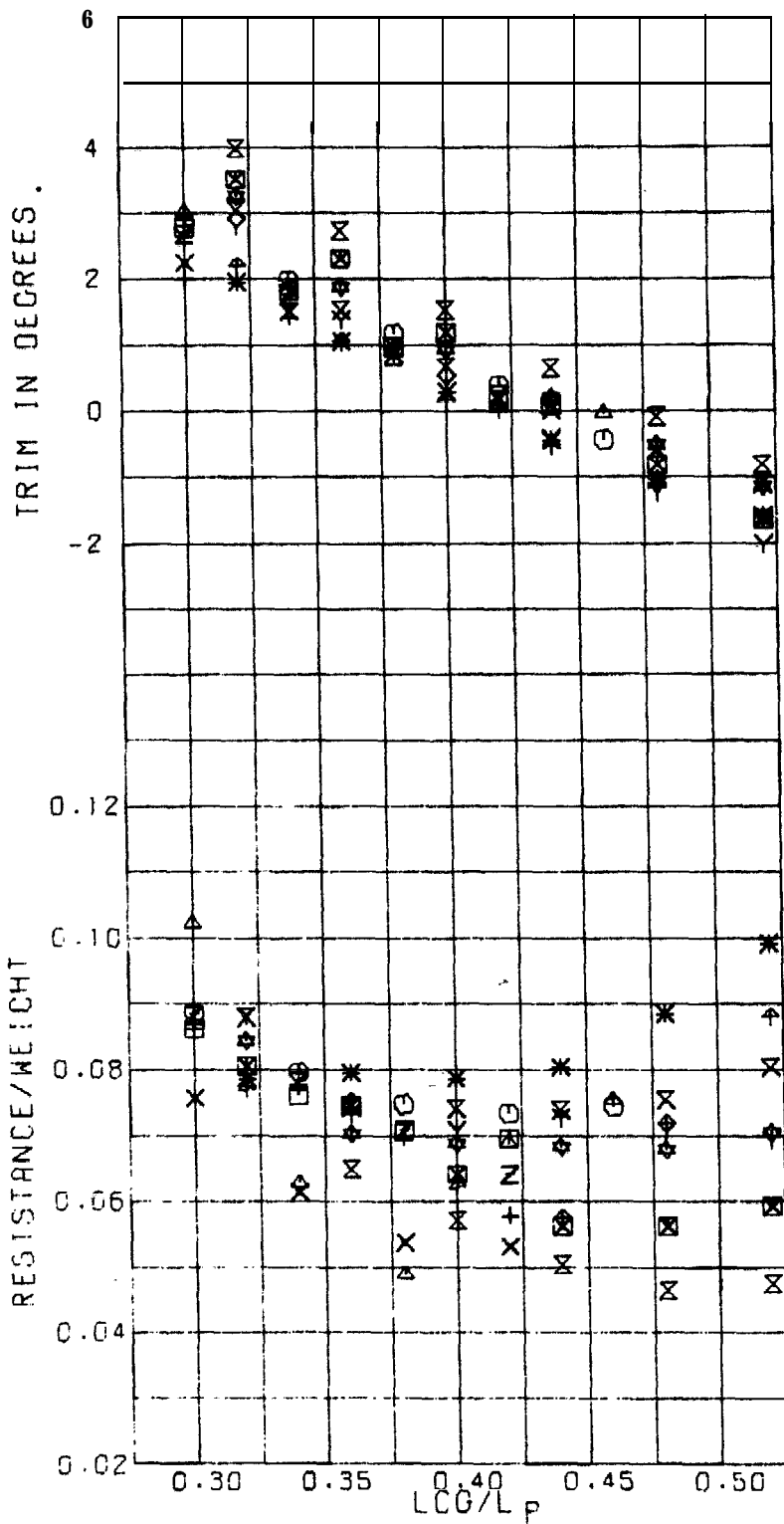
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.09 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.: |

$$L_P/\nabla^{1/3} = 9.0$$

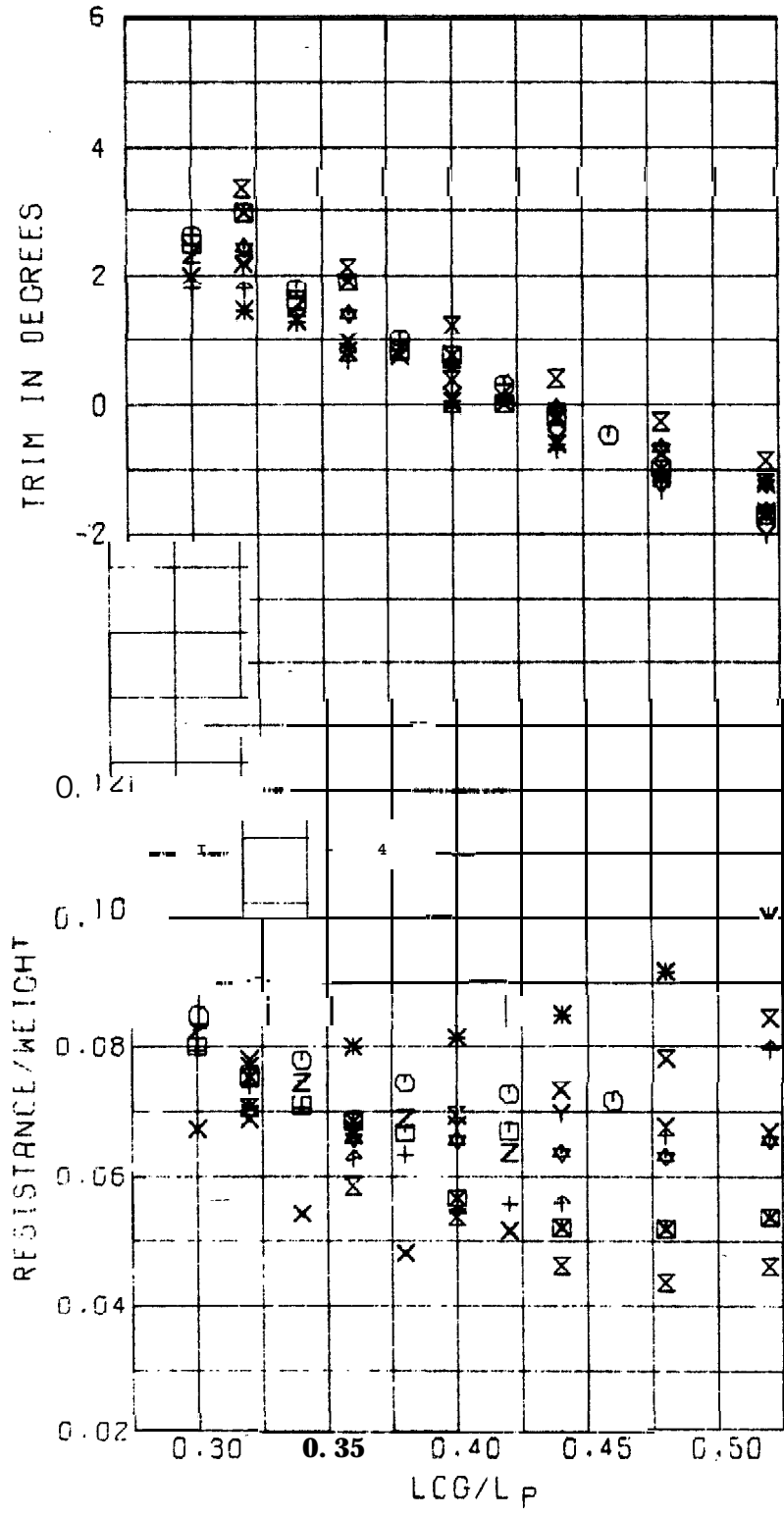
$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| x | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| + | 4960-1 | 6.60 | 20.5 |
| x | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ■ | 5243 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| x | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5236 | 9.38 | 30.4 |

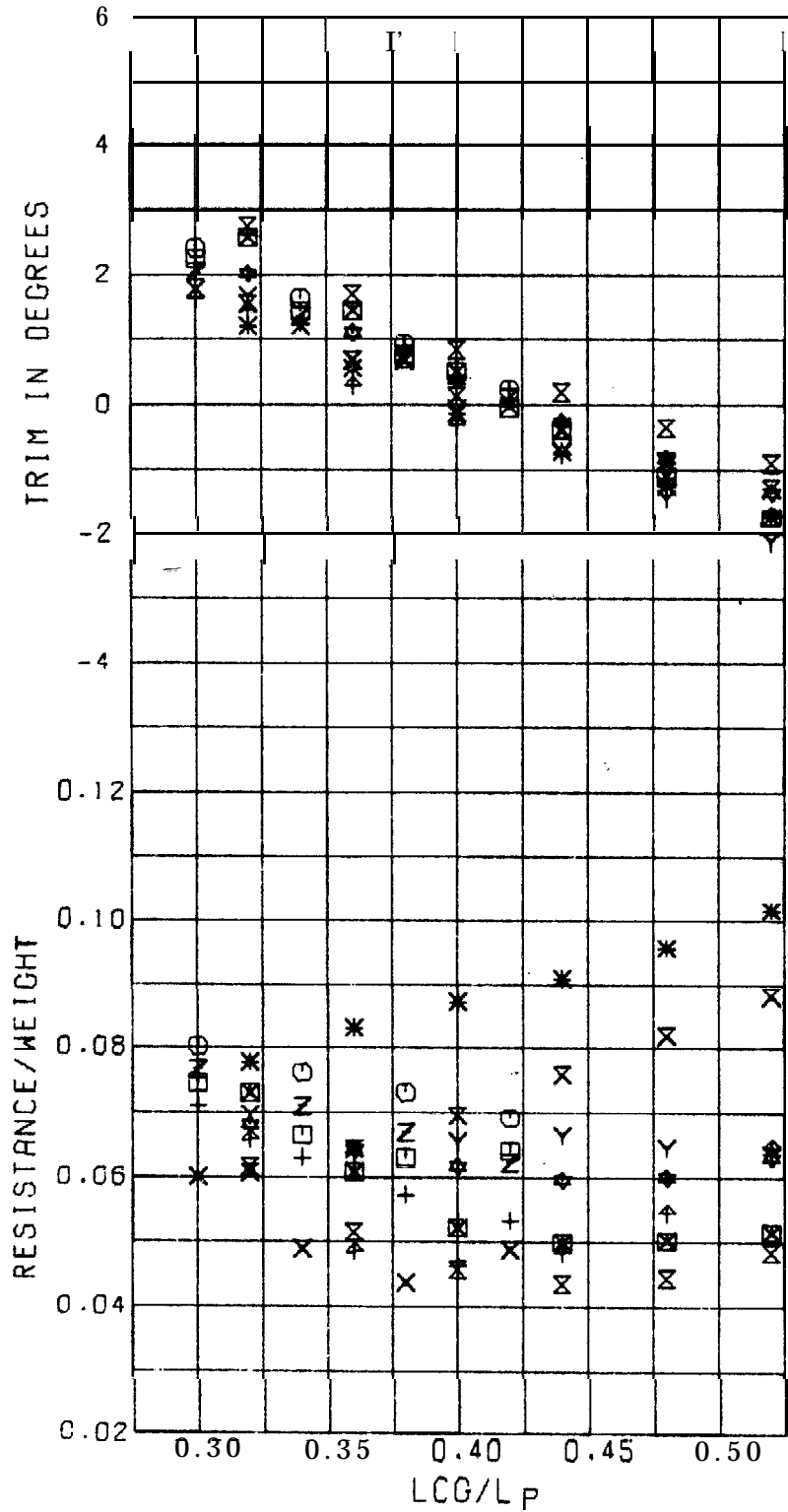
$$L_P/\nabla^{1/3} = 9.5$$

$$F_{N\nabla} = 2.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| x | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.30 | 30.4 |

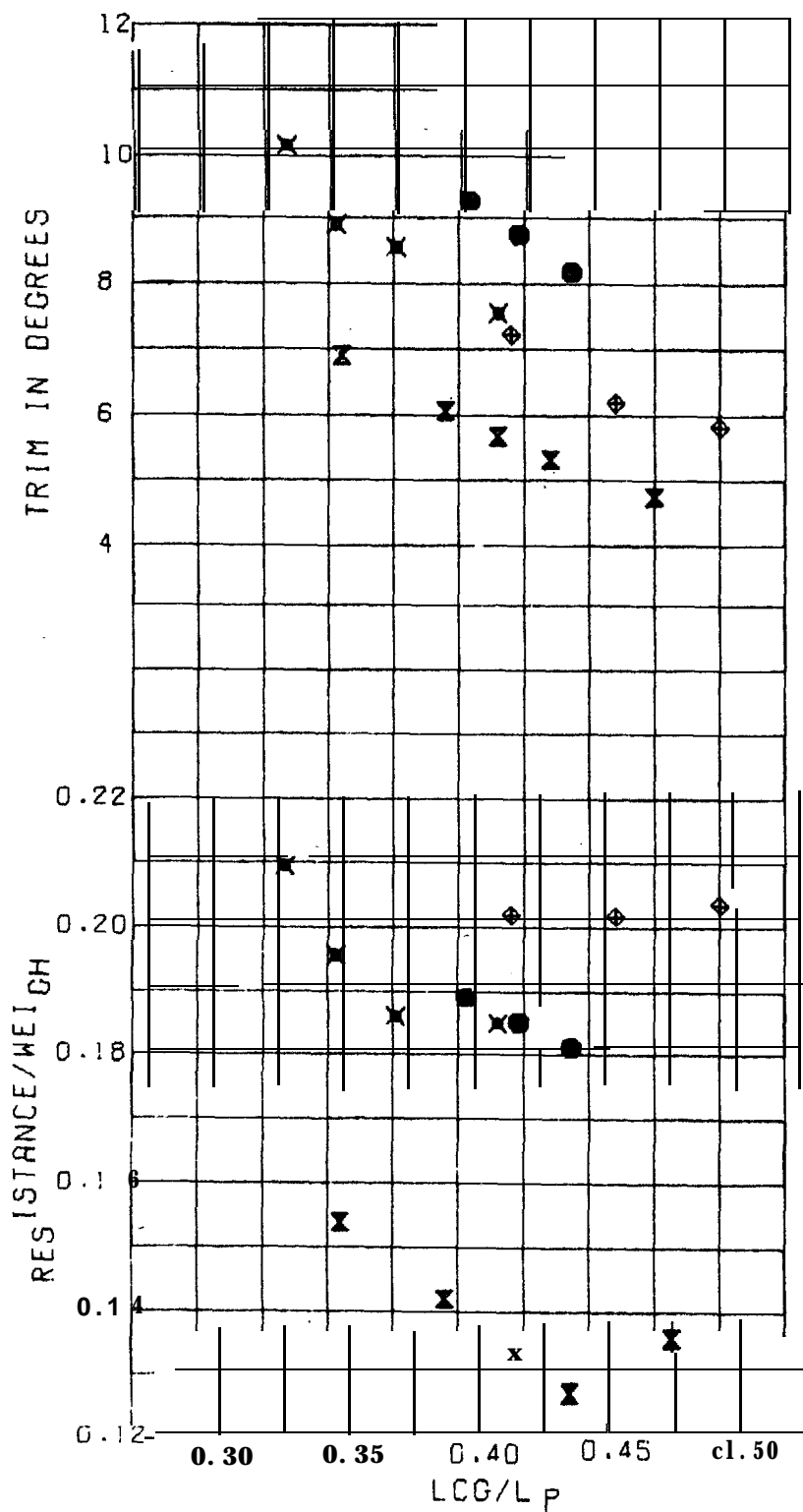
$L_P/V^{1/3}$ F_{NV}



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◆ | 4966-I | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P/\nabla^{1/3} = 4.0$$

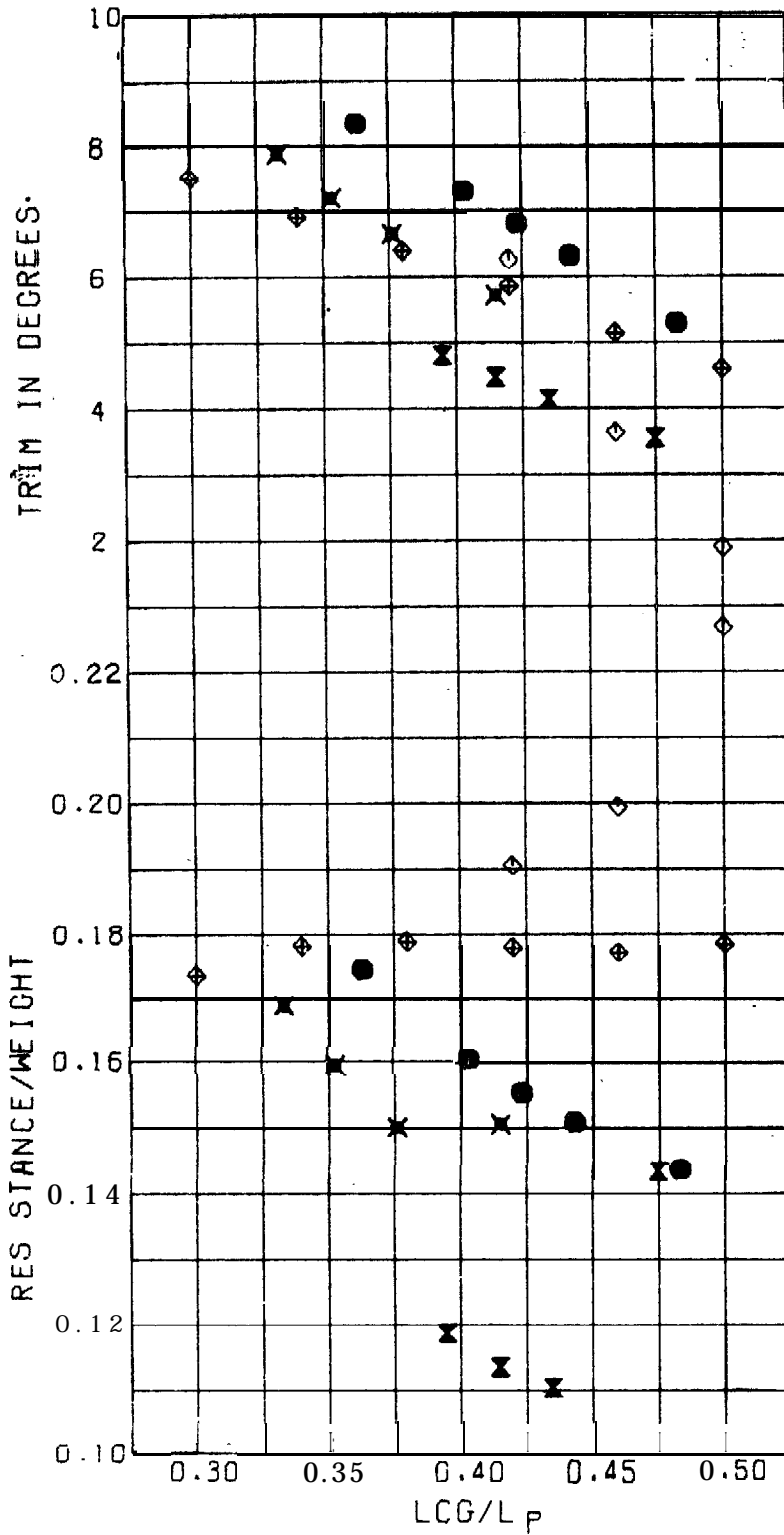
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|------------|---------|--------------|-----------|
| \diamond | 5237 | 2.35 | 16.3 |
| \times | 4665 | 2.00 | 12.5 |
| \bullet | 4666 | 3.06 | 12.5 |
| X | DL 62-R | 3.06 | 13.0 |

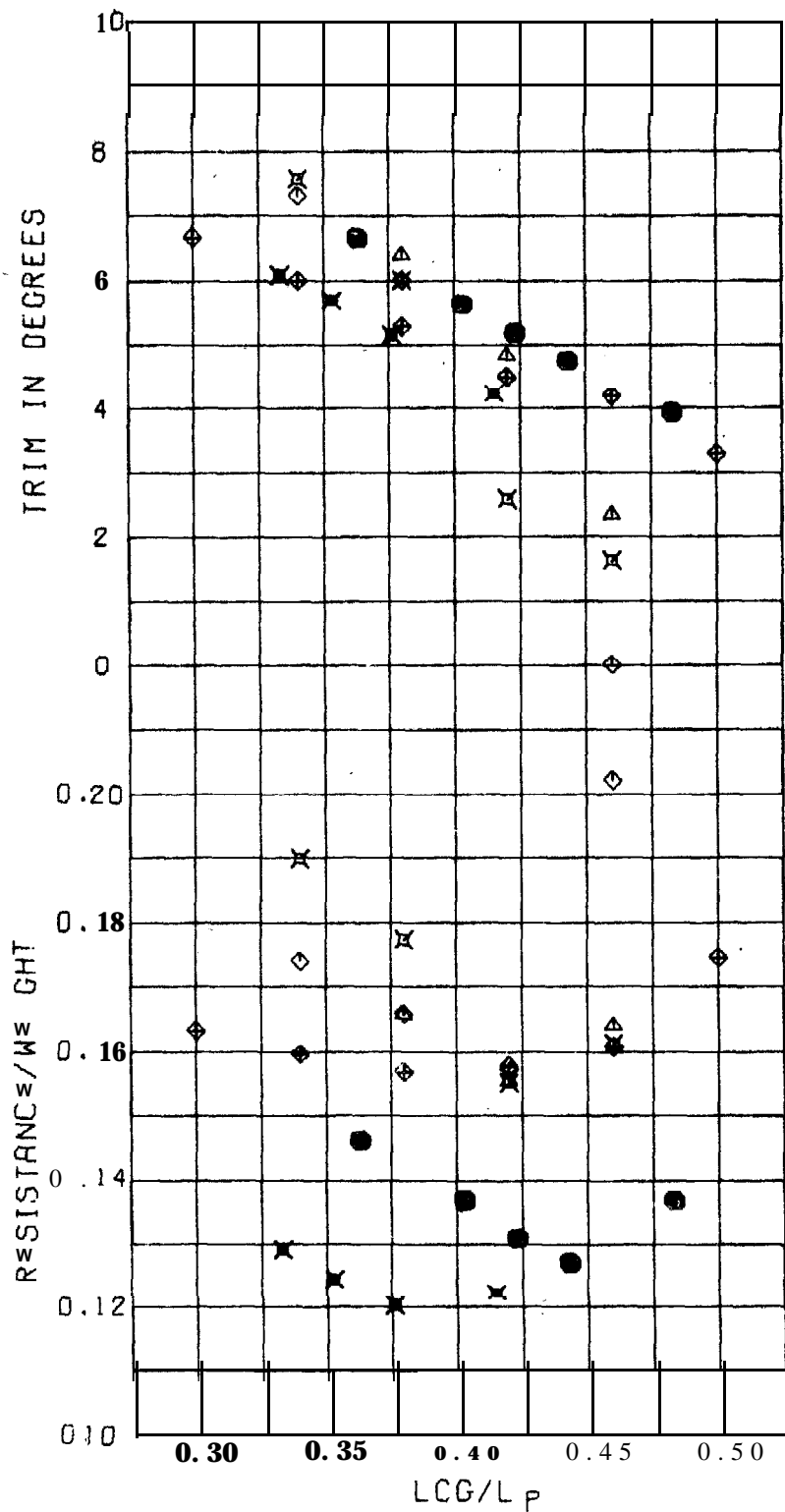
$$L_P/\nabla^{1/3} = 4.5$$

$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◊ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊗ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | OL 62-R | 3.06 | 13.0 |

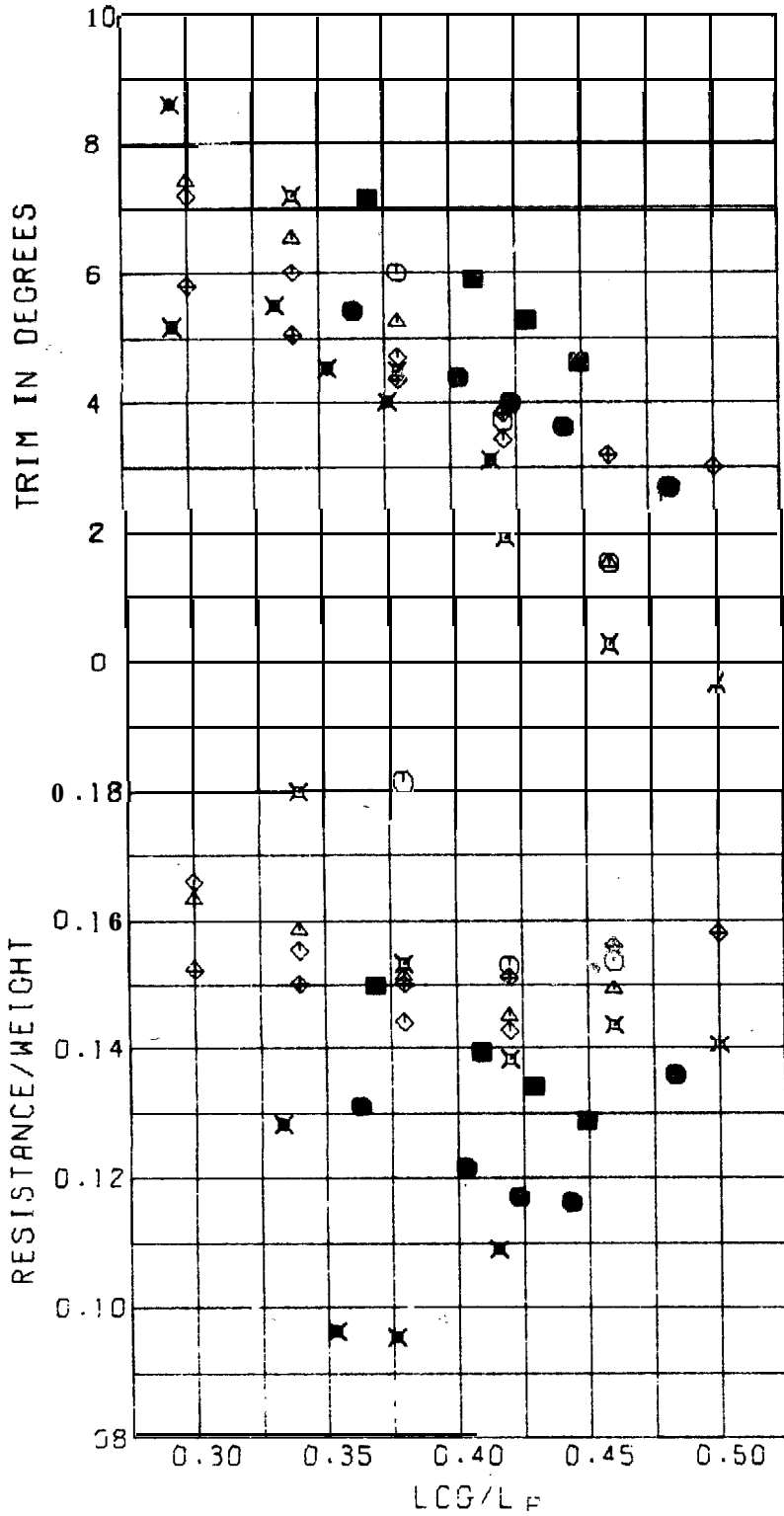
$$L_p/\nabla^{1/3} = 5.0 \quad F_{N\nabla} = 2.50$$



| | | L_p/B_{PX} | β_T |
|---|---------|--------------|-----------|
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 46.3 |
| ◇ | 5186 | 3.32 | 2.2.5 |
| X | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-R | 3.06 | 13.0 |

$$L_P / \nabla^{1/3} = 5.5$$

$$F_{N\nabla} = 2.50$$

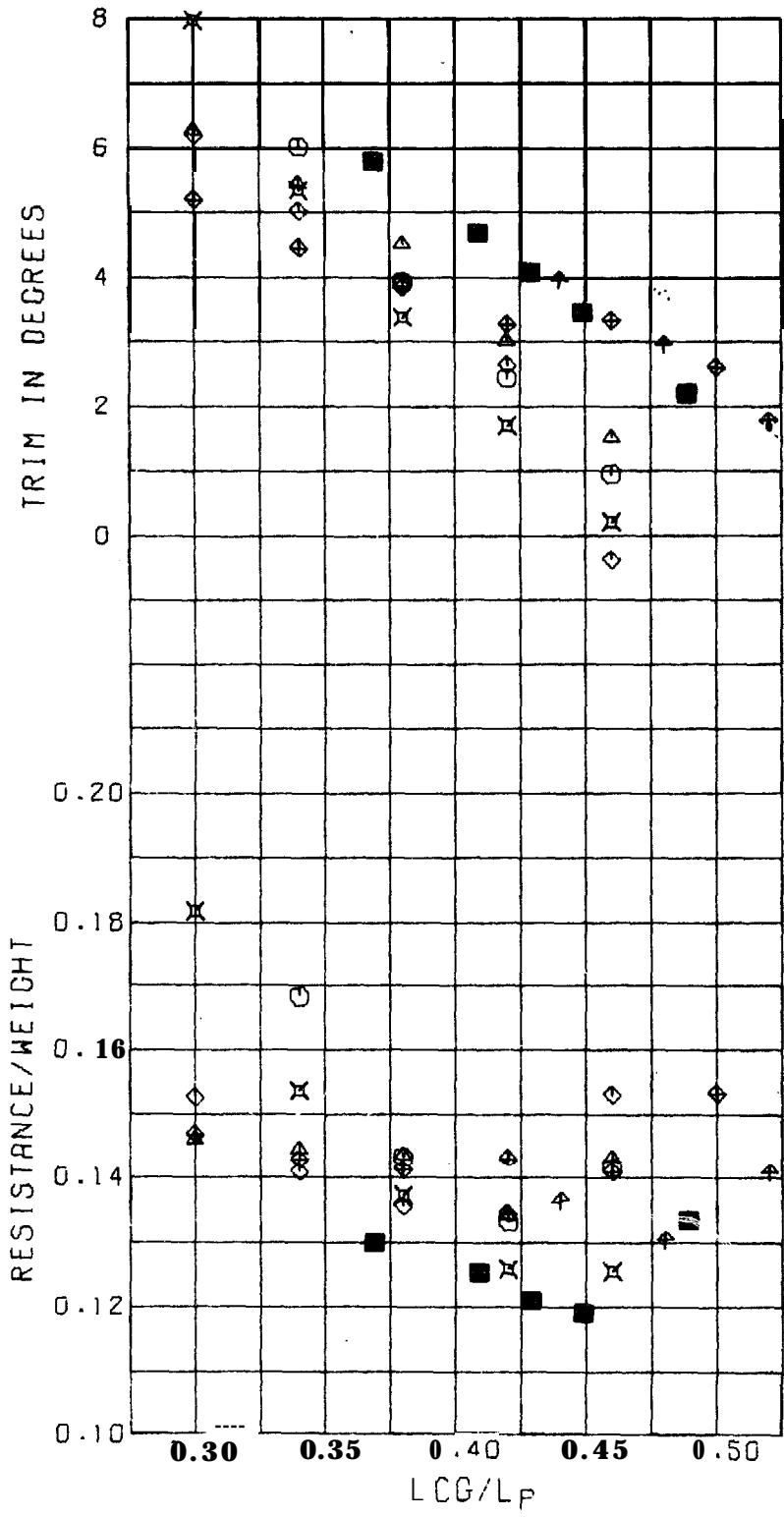


SYMBOL MODEL $L_P / B_P \times \beta_T$

| | | | |
|---|----------|------|------|
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ⊗ | DL. 62-R | 3.06 | 13.0 |

$$L_P / \nabla^{1/3} = 6.0$$

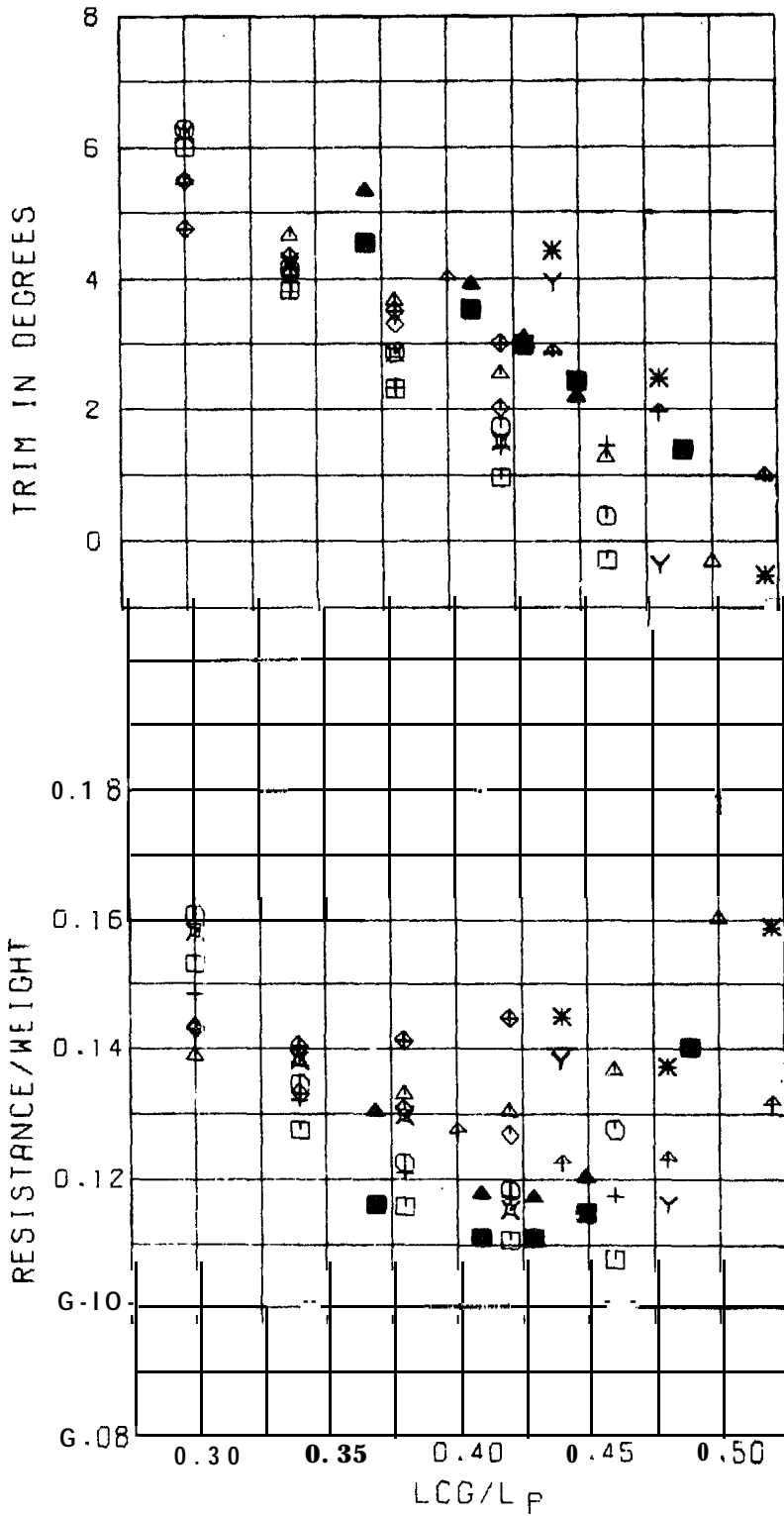
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 525 1 | 3.30 | 14.8 |
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5164 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

$$L_P/\nabla^{1/3} = 6.5$$

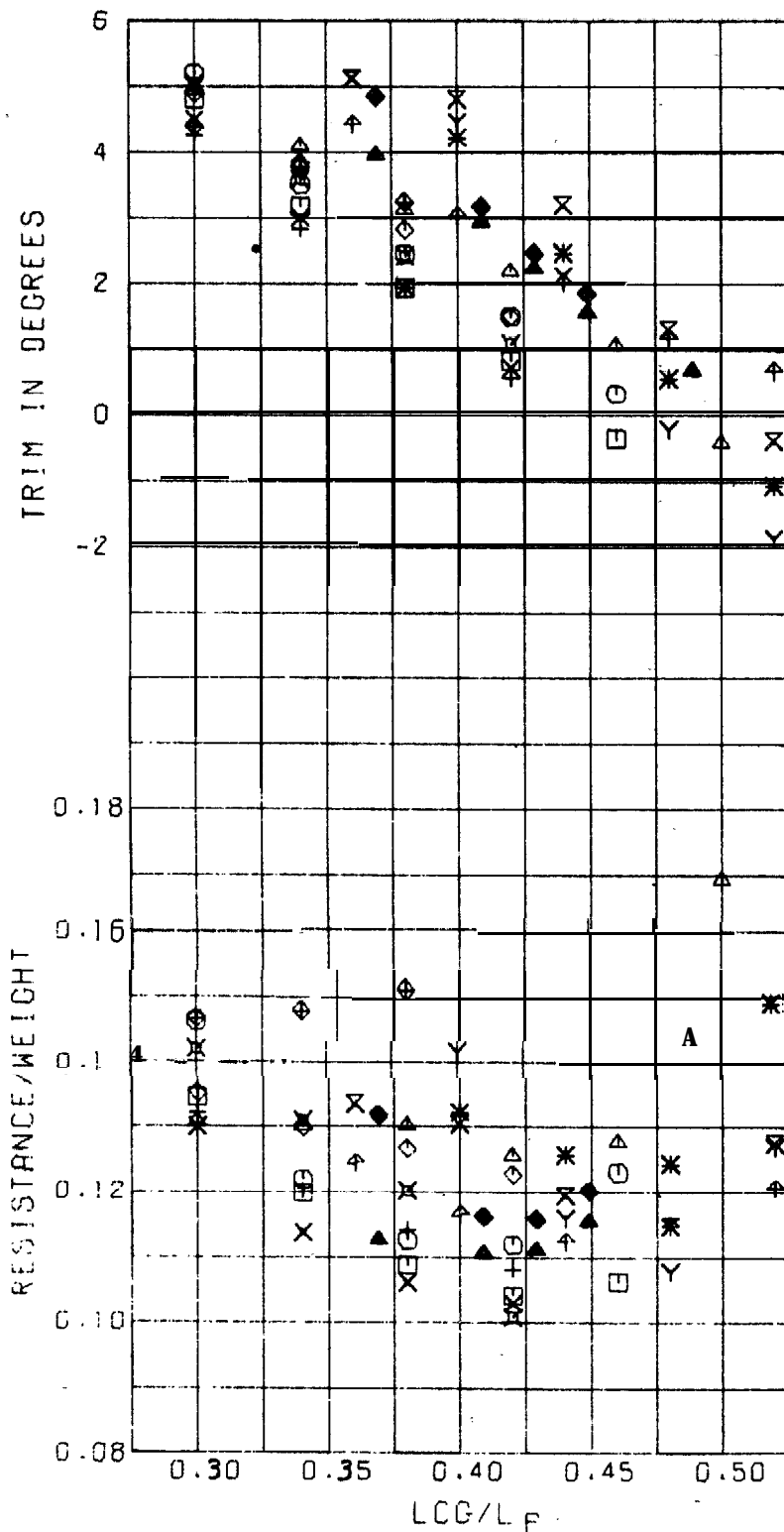
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| † | 525 1 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊕ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.3'2 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊙ | 5184 | 4.69 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0$$

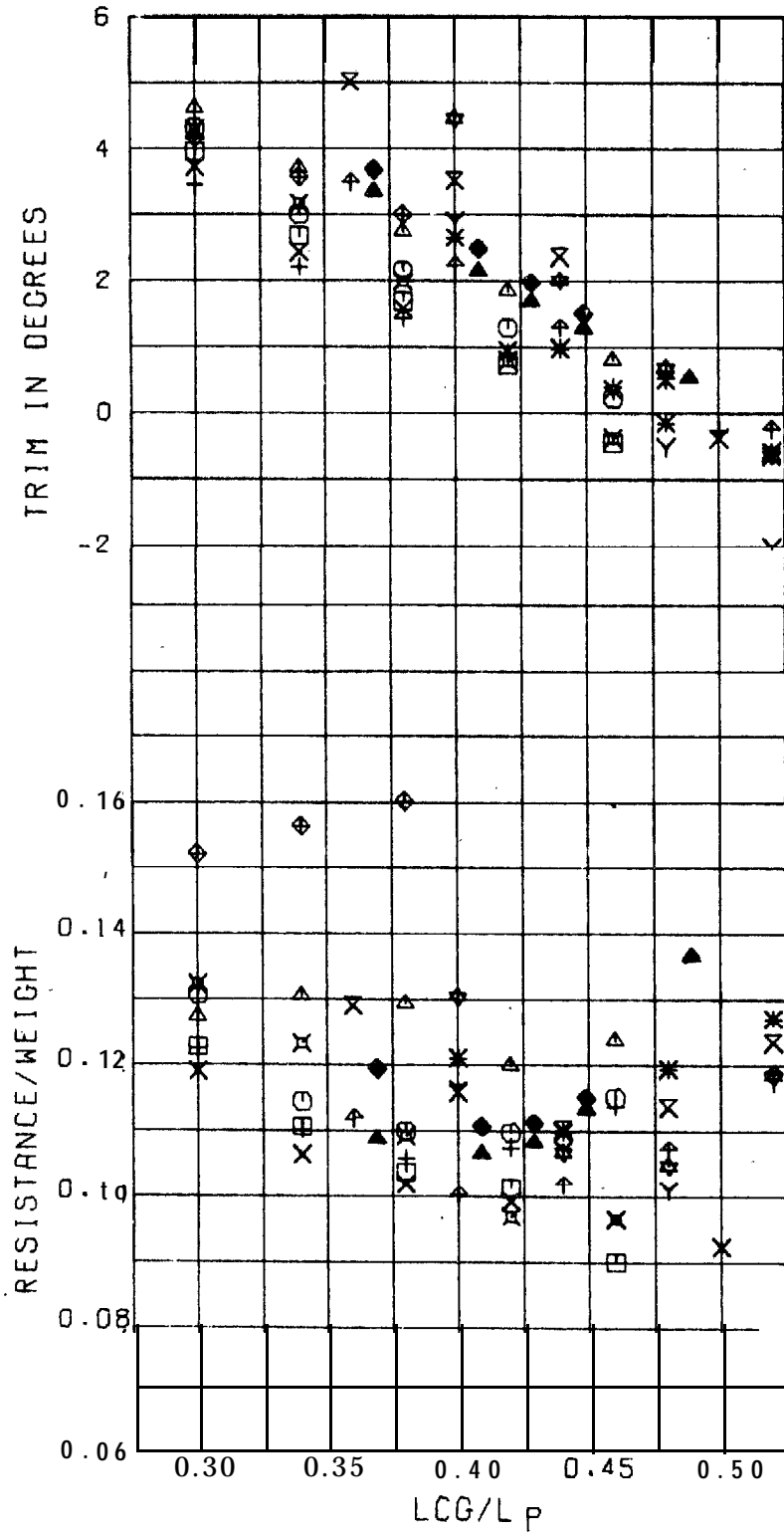
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | $L_P/B_{P\chi}$ | β_T |
|--------|-------|-----------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◆ | 5237 | 2.35 | 16.3 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊖ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 7.5$$

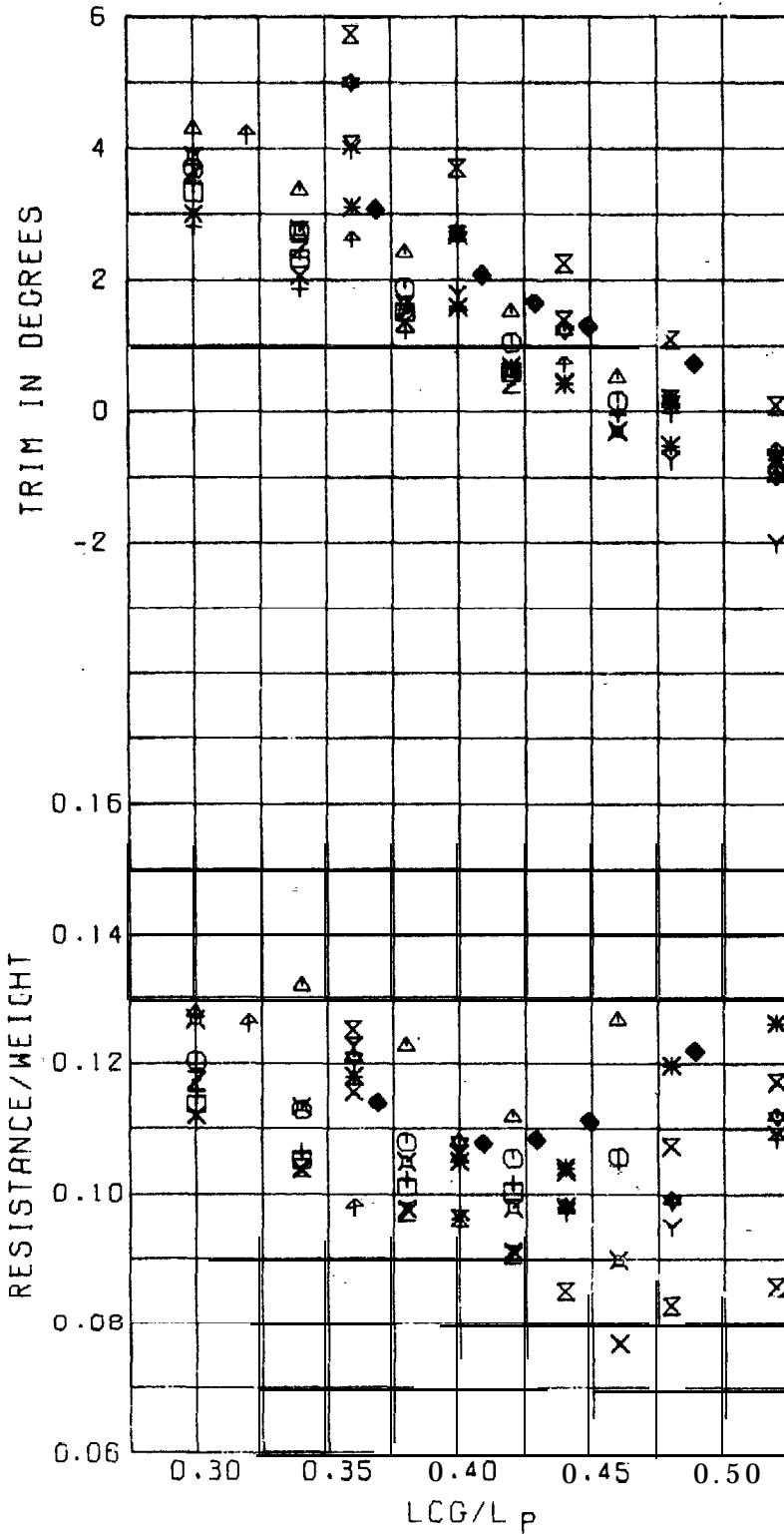
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊙ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊕ | 5236 | 4.69 | 30.4 |
| ⊙ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

$$F_{N\nabla} = 2.50$$

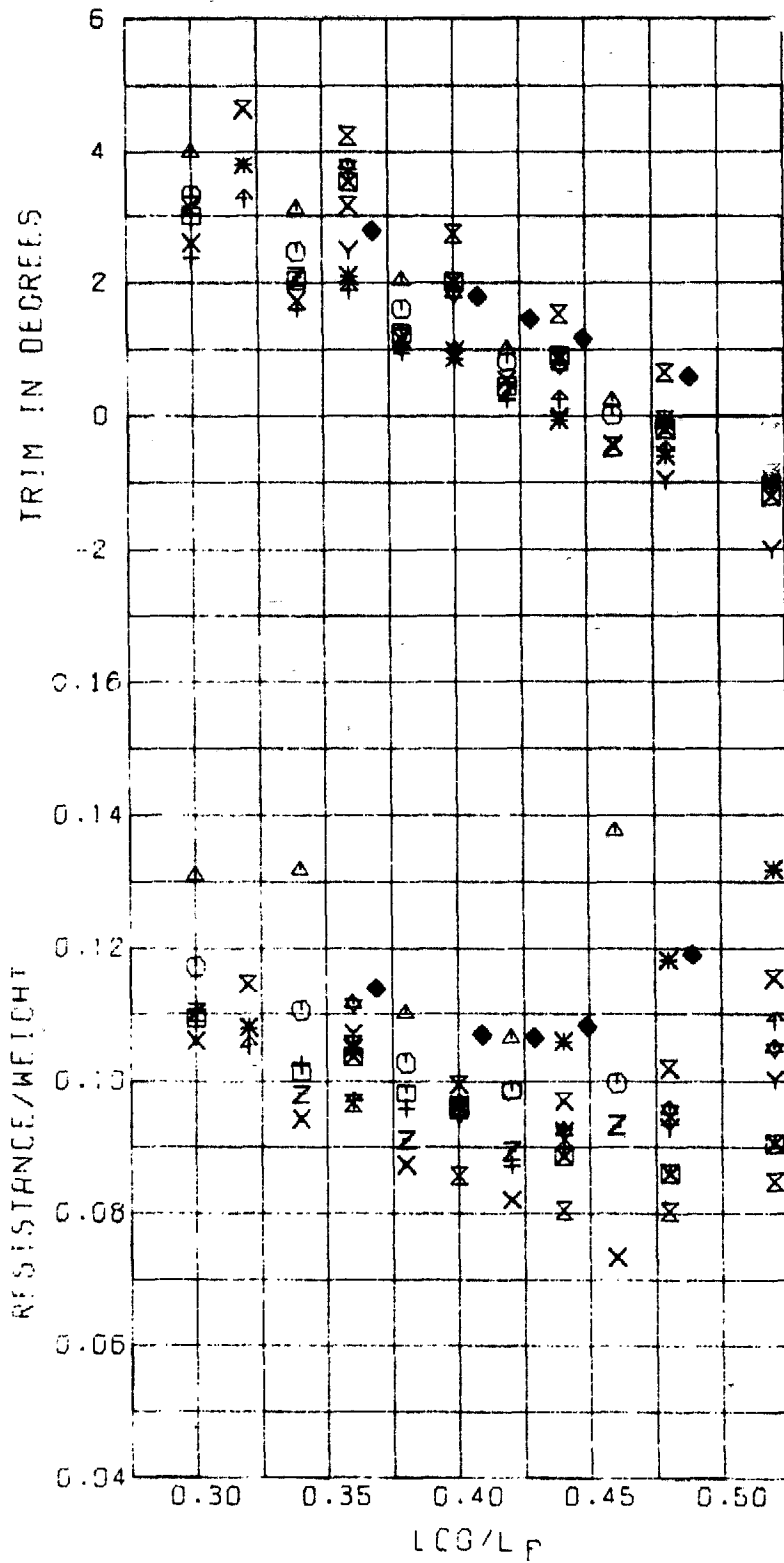


SYMBOL MODEL L_P/B_{PX} β_T

| | | | |
|---|--------|------|------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ☆ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| X | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | so.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

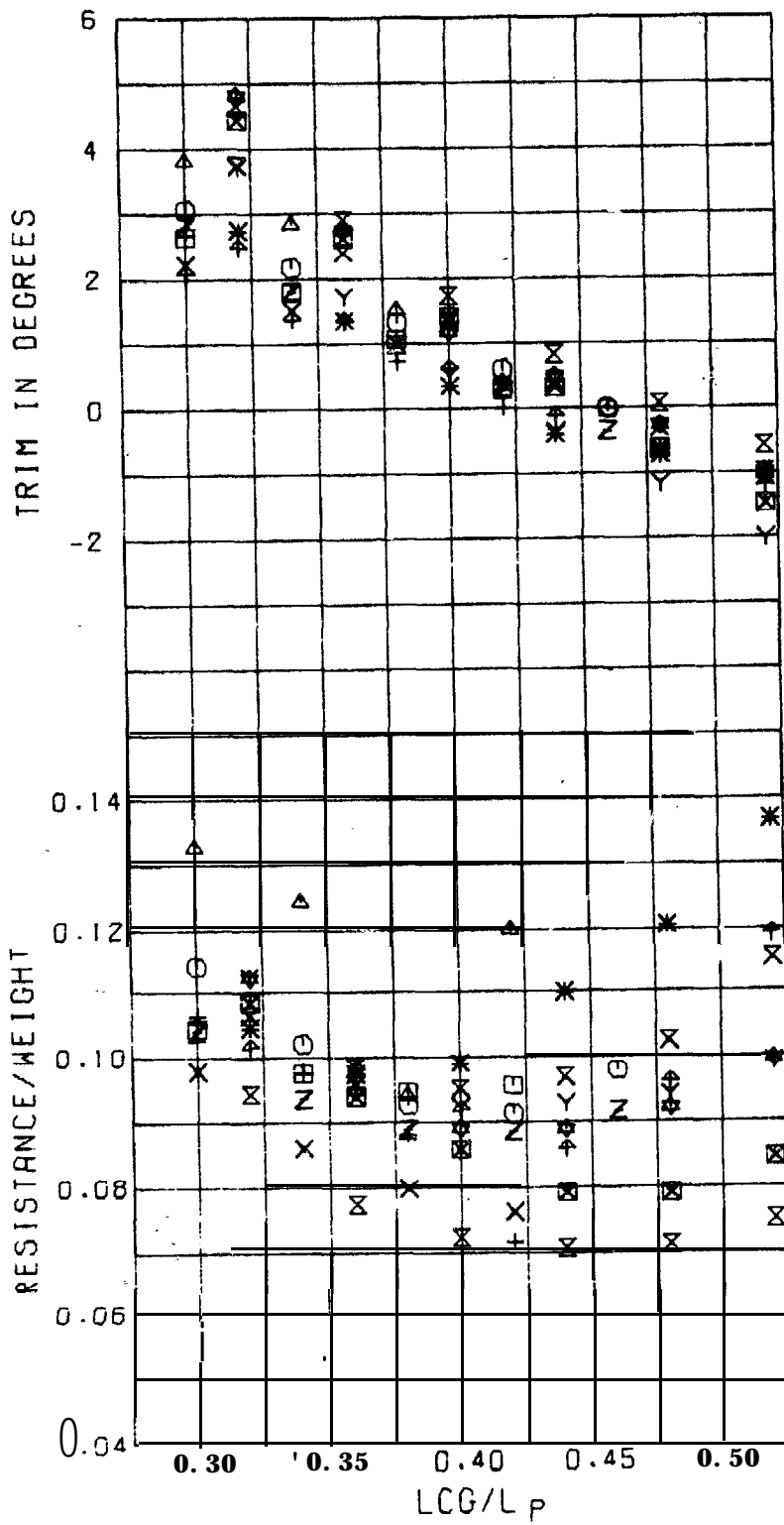
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◆ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\Delta^{1/3} = 9.0$$

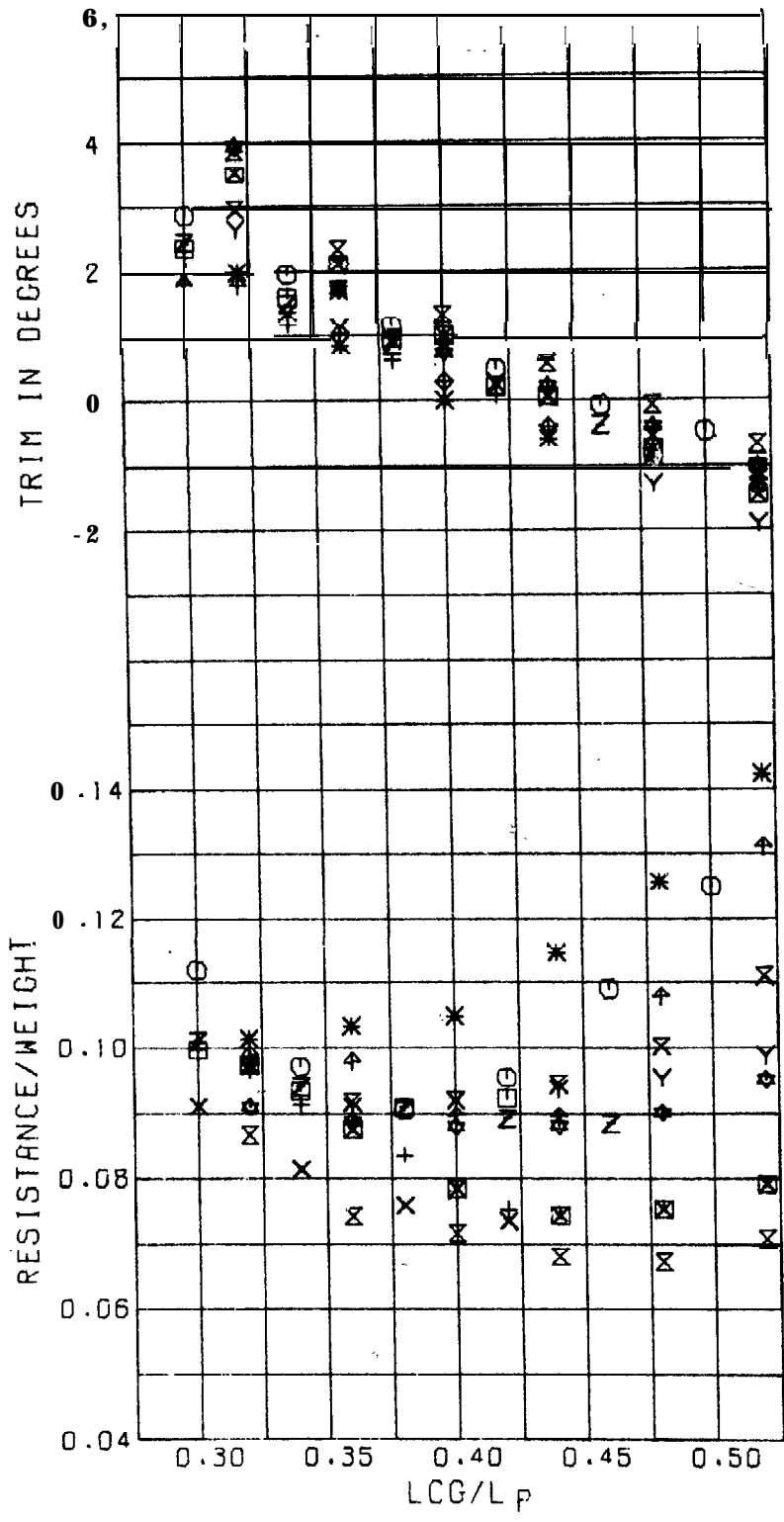
$$F_{N\Delta} = 2.50$$



| SYMBOL | MODEL | L_p/Δ_{PX} | β_T |
|--------|--------|-------------------|-----------|
| † | 5251 | 3.30 | 14.8 |
| × | 5249 | 9.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5230 | 9.38 | 30.4 |

$$L_p/\nabla^{1/3} = 9.5$$

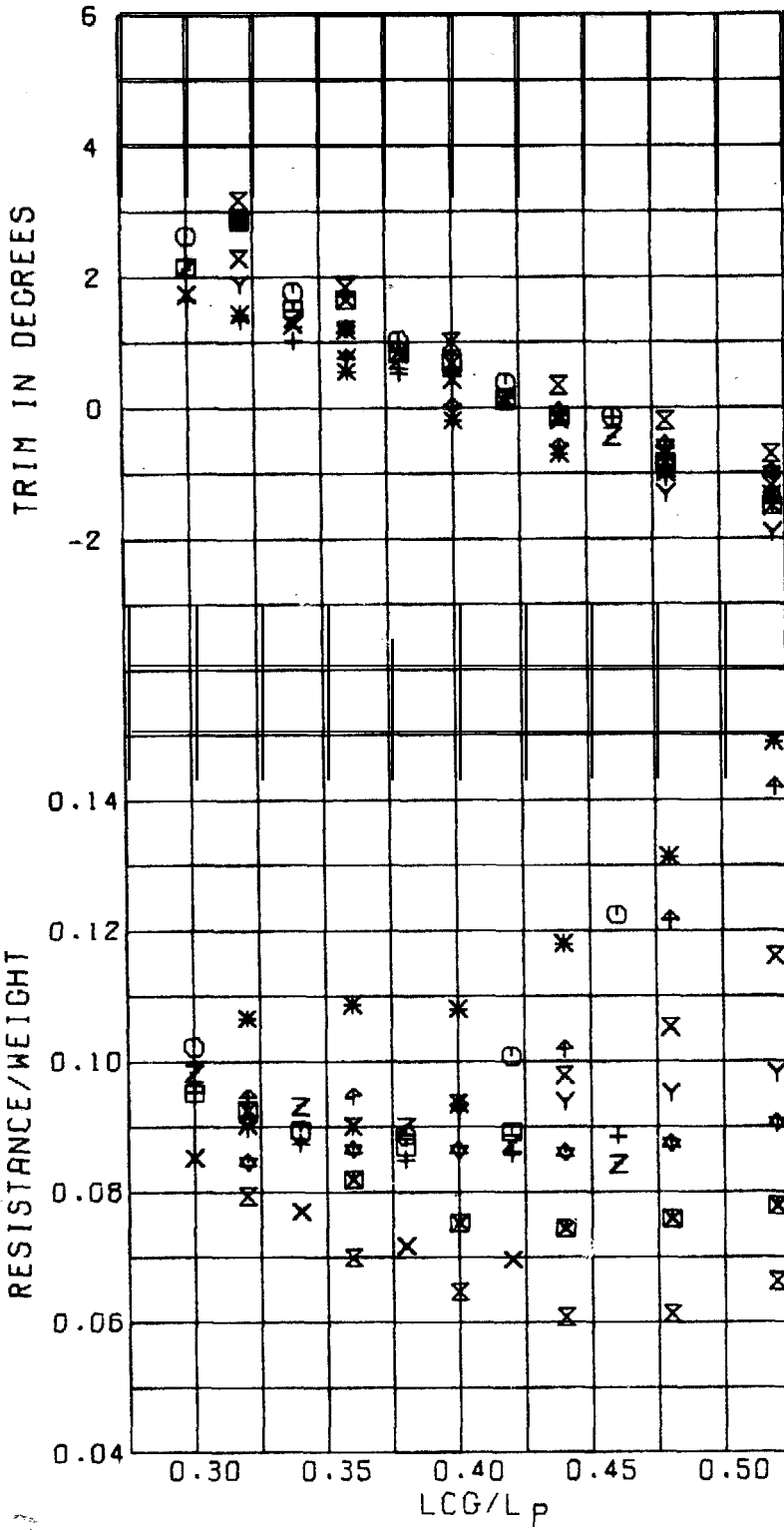
$$F_{N\nabla} = 2.50$$



| SYMBOL | MDEL | L_p/B_{pX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊛ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5164 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5236 | 9.38 | 30.4 |

$$L_p/\nabla^{1/3} = 10.0$$

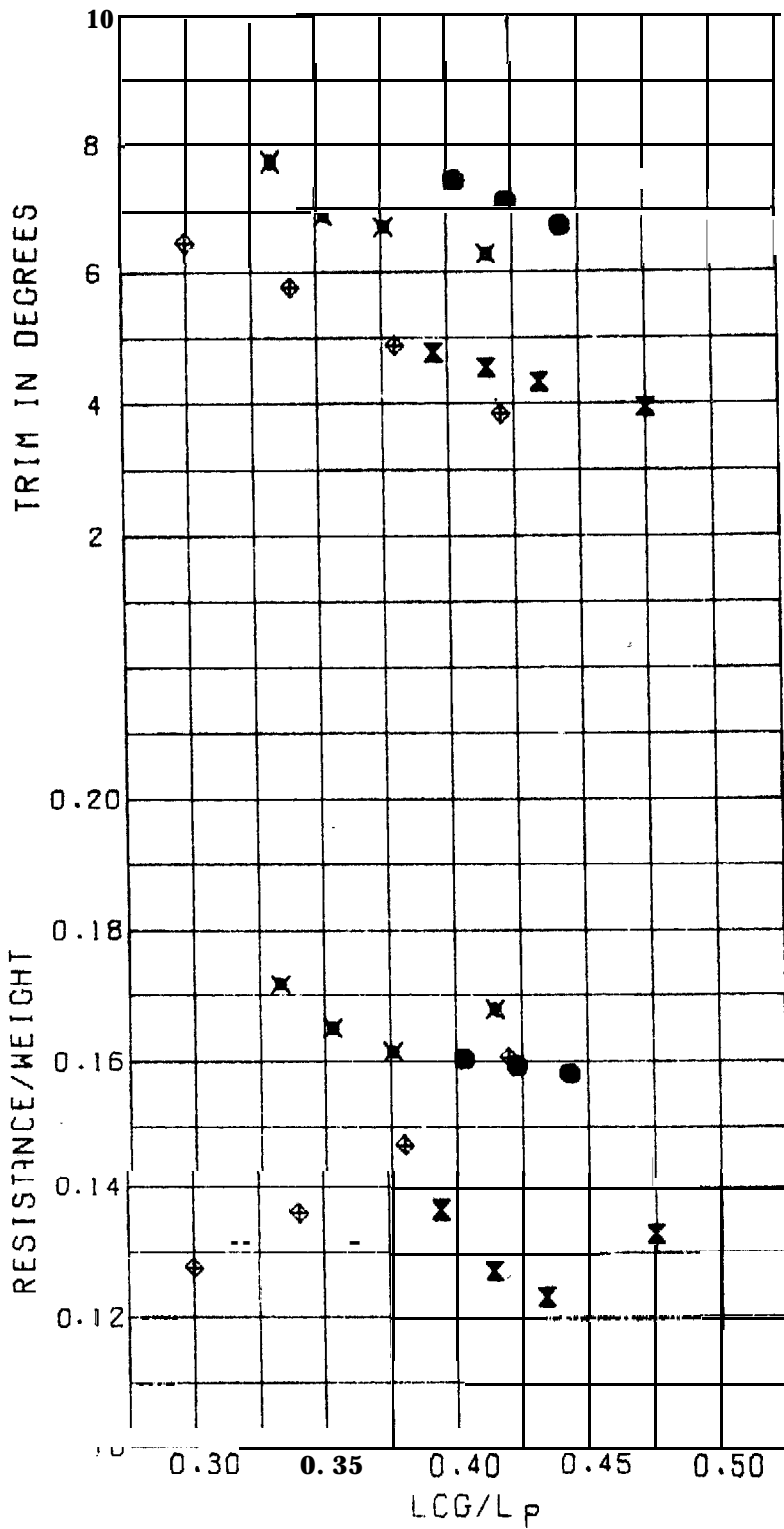
$$F_{N\nabla} = 2.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| □ | 5240 | 9.34 | 27.7 |
| ⊞ | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| * | 5167 | 6.64 | 22.5 |
| ⊞ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.30 | 30.4 |

$$L_p/V^{1/3} = 4.0$$

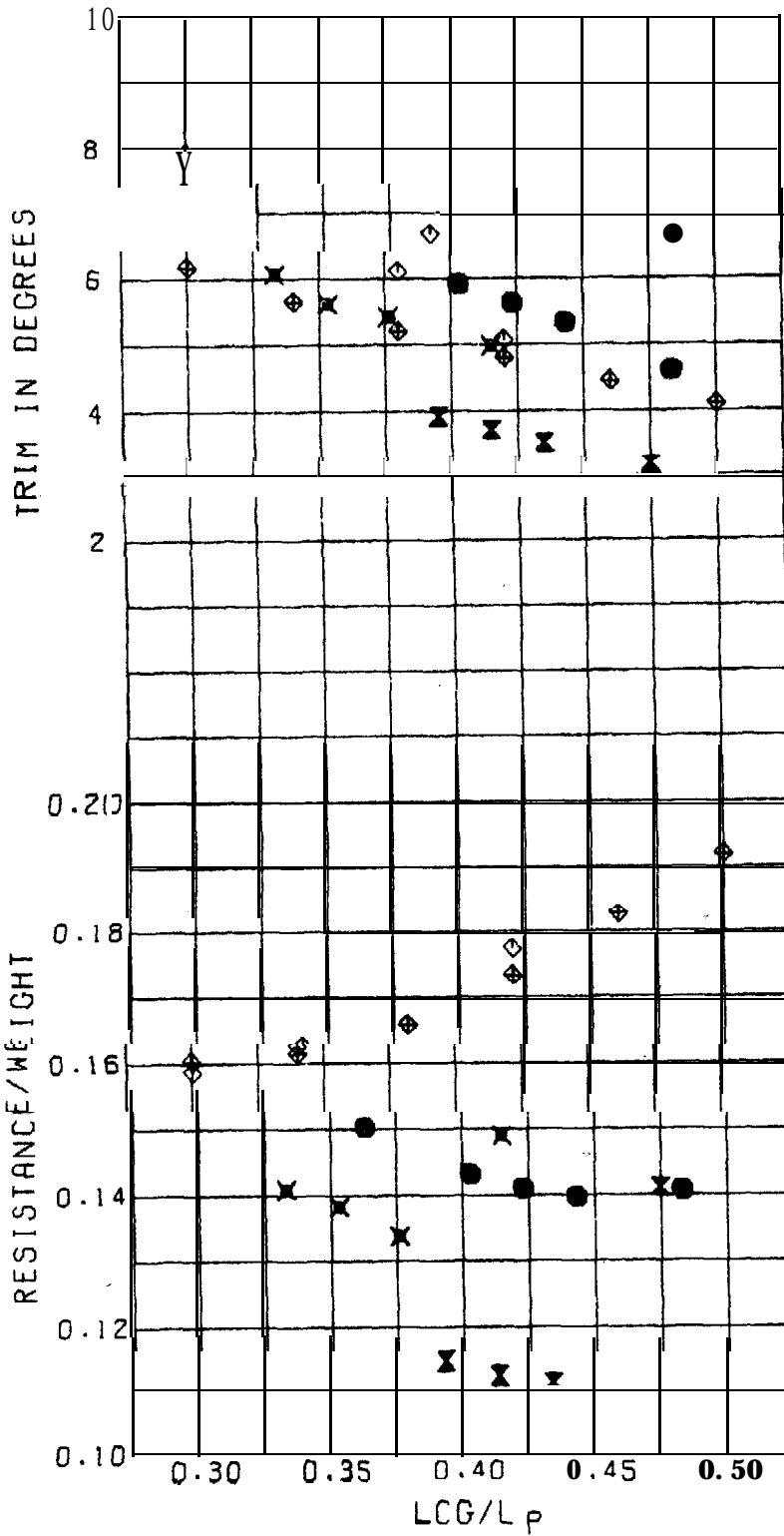
$$F_{NV} = 3.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ⌘ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| ⌘ | DL 62-A | 3.06 | 13.0 |

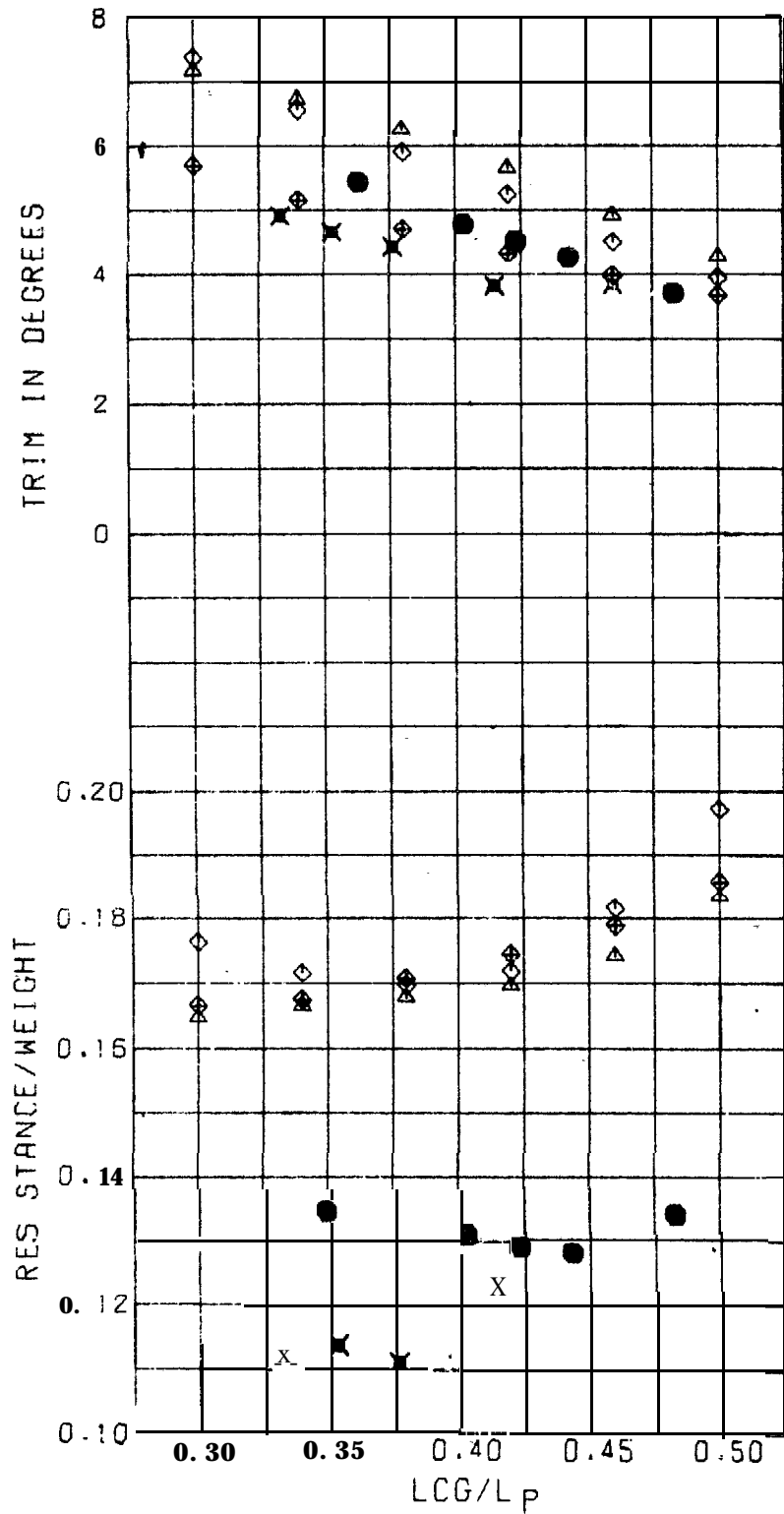
$$L_p/\nabla^{1/3} = 4.5$$

$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ✕ | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-Q | 3.06 | 13.0 |

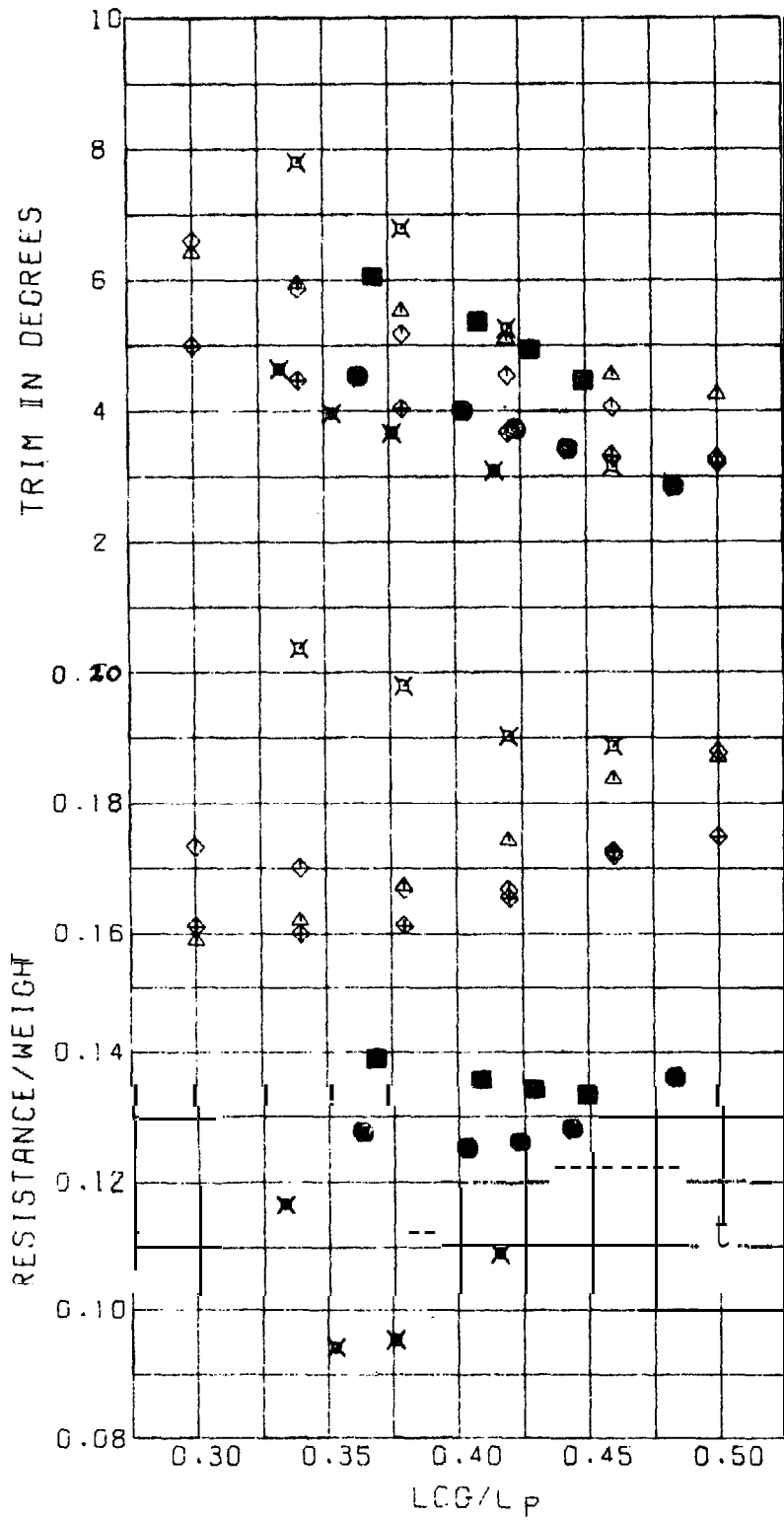
$$L_P/\nabla^{1/3} = 5.0 \quad F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ● | 4666 | 3.06 | 12.5 |
| ✕ | DL 62-A | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.5$$

$$F_{N\nabla} = 3.00$$

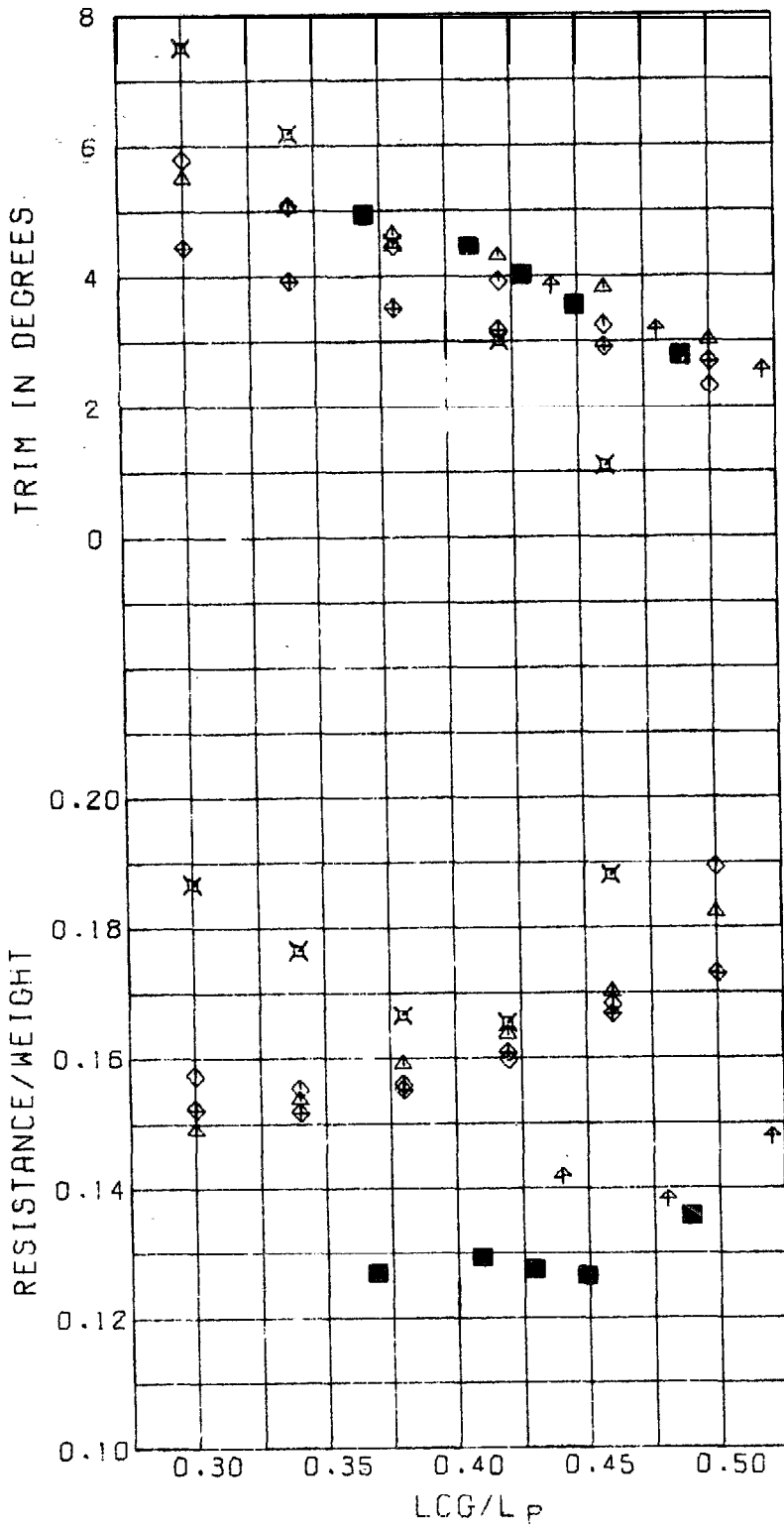


SYMBOL MODEL L_p/B_{PX} β_T

| | | | |
|---|---------|------|------|
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ✕ | DL 62-R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 6.0$$

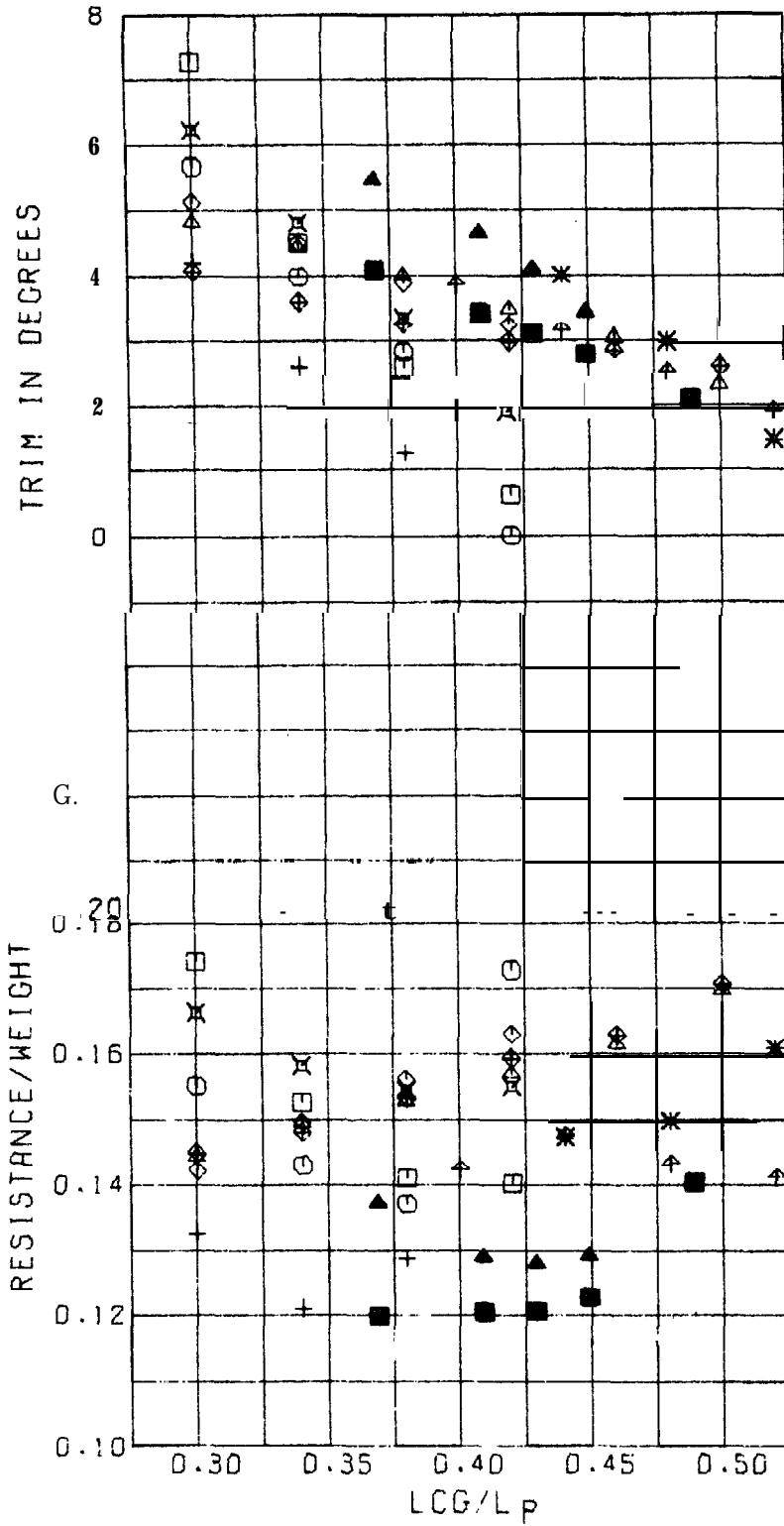
$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

$$L_p / \nabla^{1/3} = 6.5$$

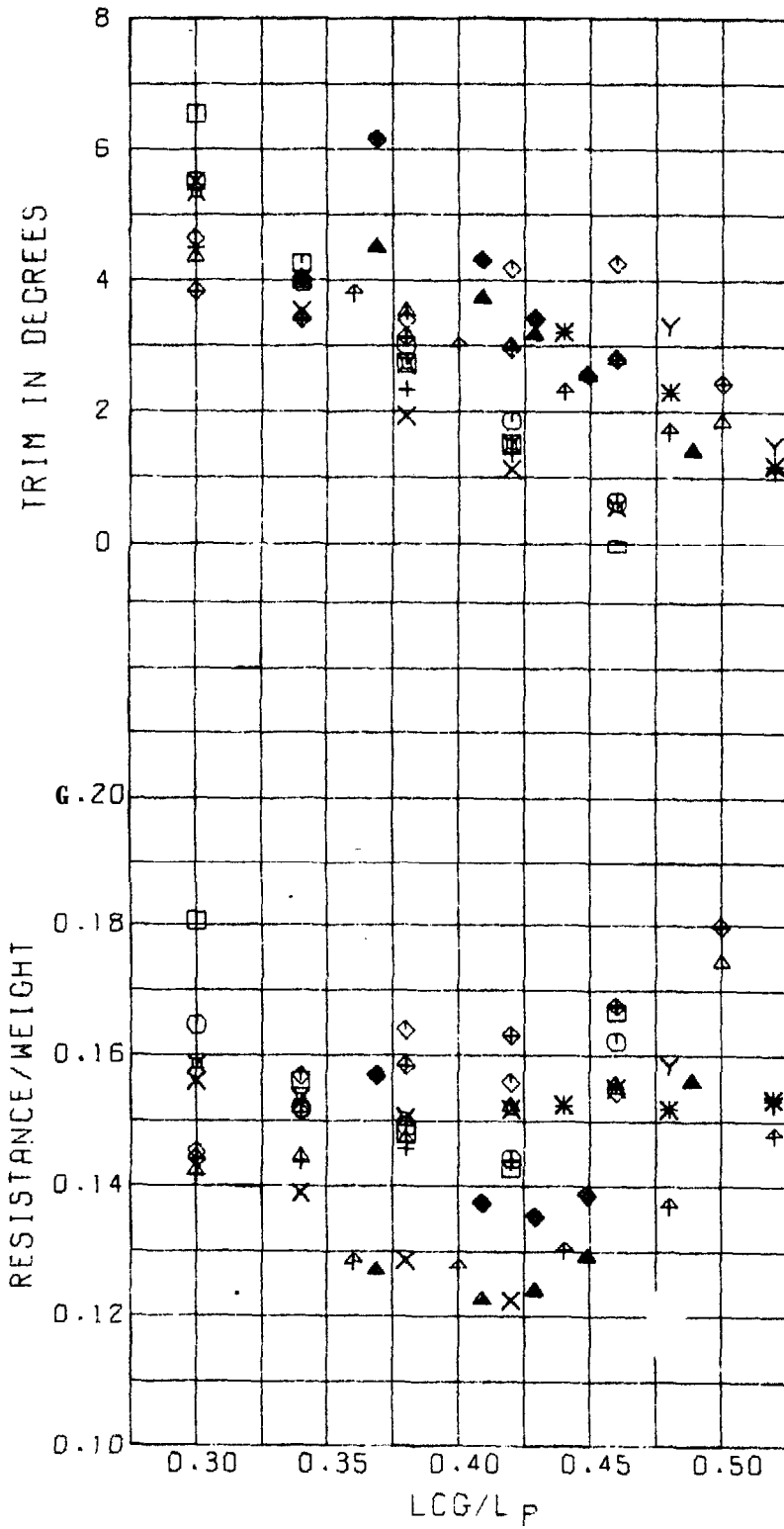
$$\bar{r}_{N\bar{v}} = 3.00$$



| SYMBOL | MODEL | L_p/B_{pX} | β_T |
|--------|--------|--------------|-----------|
| ⋈ | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0$$

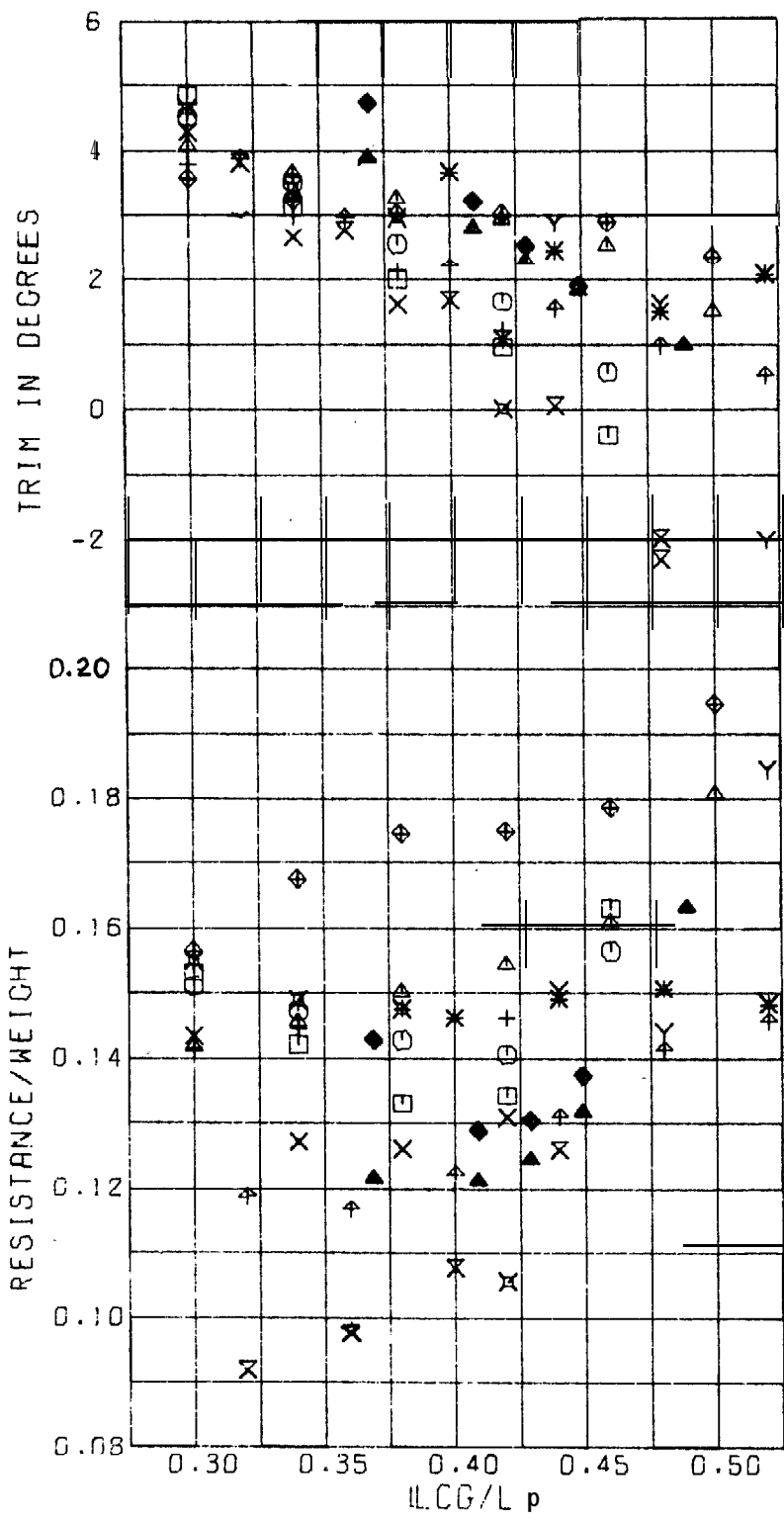
$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| † | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ⊖ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 7.5$$

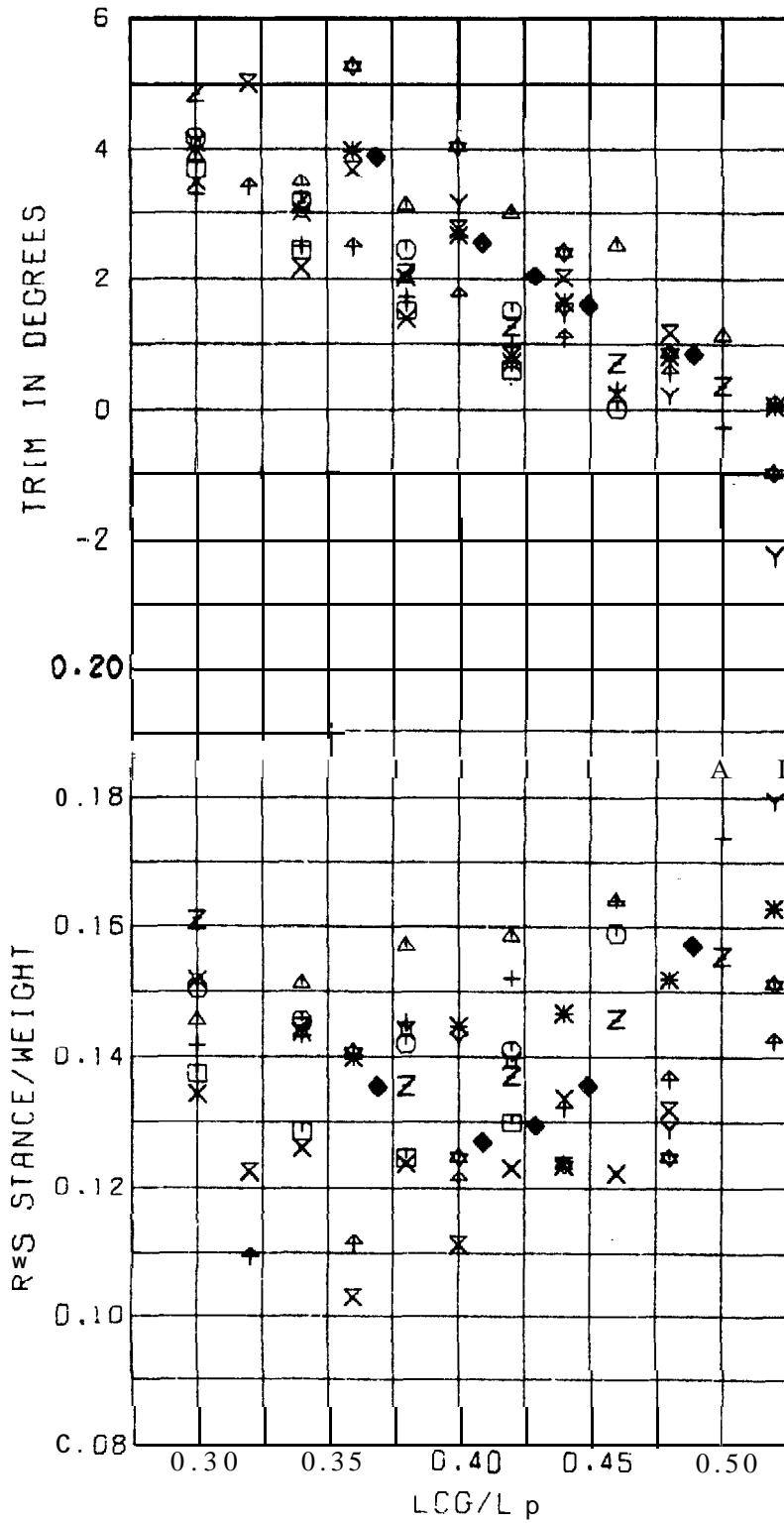
$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | $L_P/B_P \times \beta_T$ |
|--------|-------|--------------------------|
| † | 5251 | 3.30 14.8 |
| X | 5249 | 4.66 14.8 |
| * | 5198 | 4.66 20.5 |
| Y | 5250 | 6.60 27.7 |
| ◊ | 5237 | 2.35 16.3 |
| ▲ | 5240 | 3.32 16.3 |
| + | 5239 | 4.69 16.3 |
| ○ | 5184 | 4.69 22.5 |
| X | 5167 | 6.64 22.5 |
| ⊗ | 5236 | 4.69 30.4 |
| □ | 5208 | 6.64 30.4 |
| ▲ | 4660 | 5.50 12.5 |
| ● | 4669 | 7.00 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

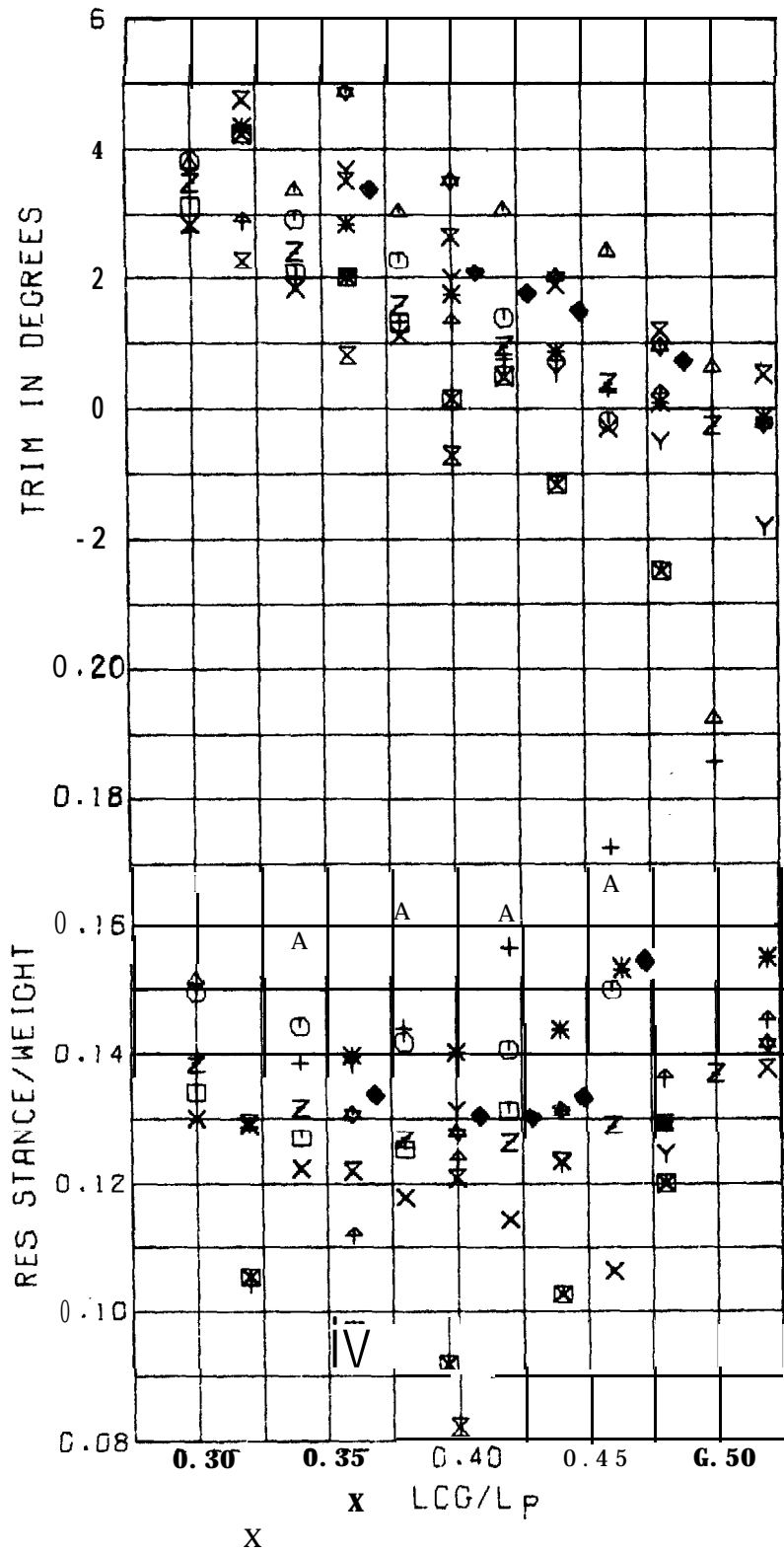
$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| + | 5251 | 3.30 | 14.8 |
| * | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊠ | 4966-1 | 6.60 | 20.5 |
| ⋈ | 5250 | 6.60 | 27.7 |
| ⋉ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊠ | 5184 | 4.69 | 22.5 |
| * | 5167 | 6.64 | 22.5 |
| ⋈ | 5236 | 4.69 | 30.4 |
| ⊠ | 5208 | 6.64 | 30.4 |
| N | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

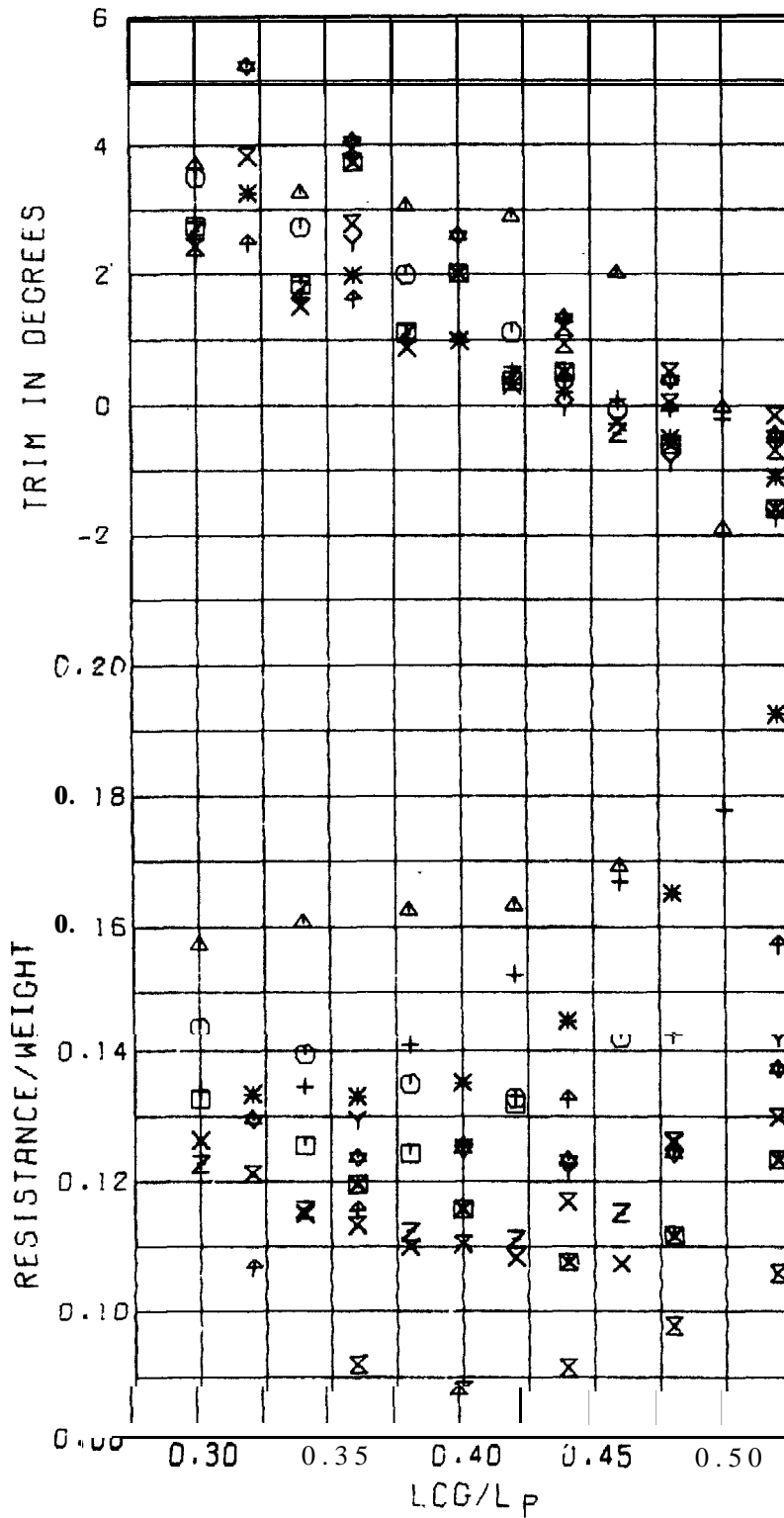
$$F_{N\nabla} = 3:00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| † | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 519% | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 524% | 9.34 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 523% | 9.30 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\nabla^{1/3} = 9.0$$

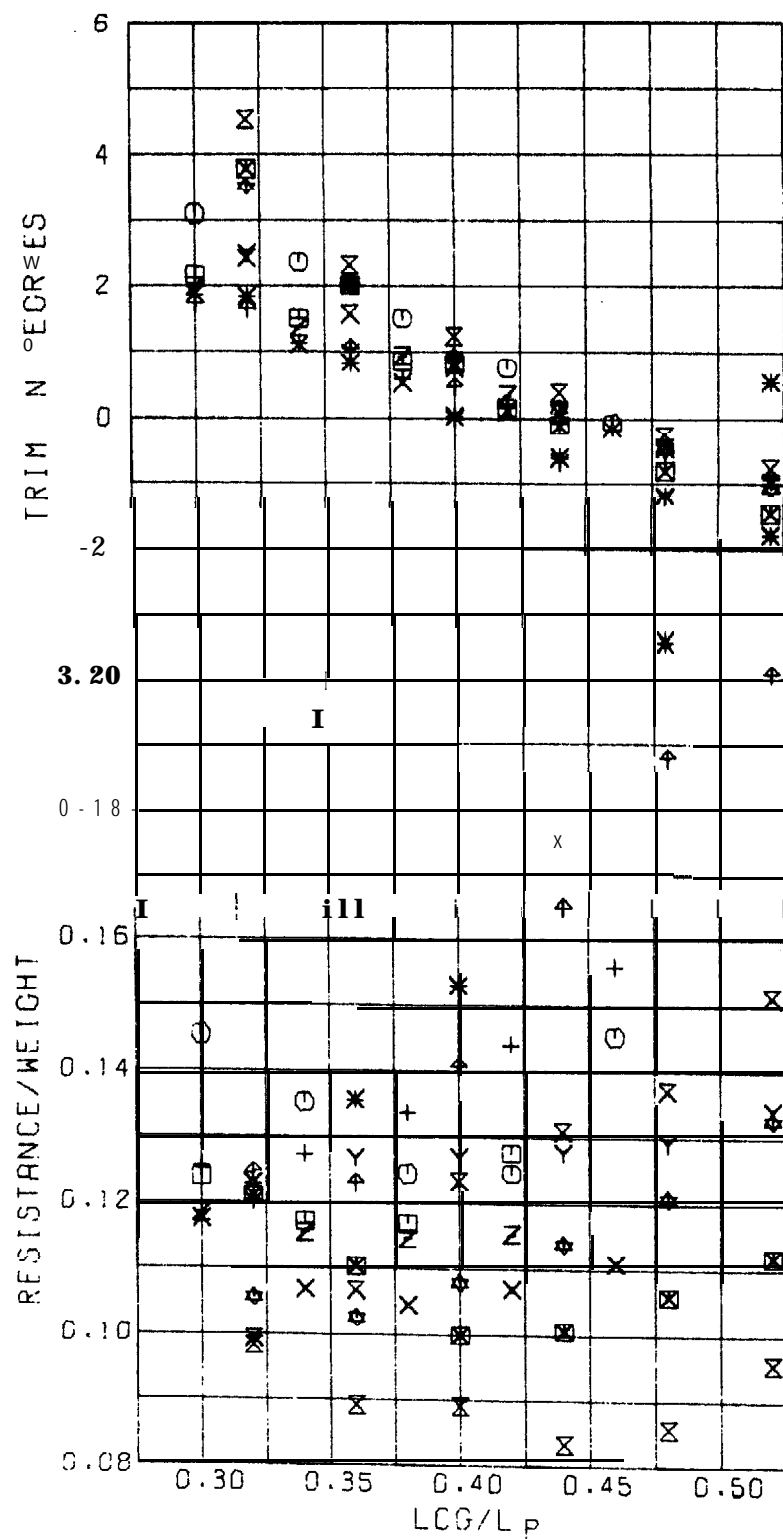
$$F_{N\nabla} = 3.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-------------|
| * | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| * | 4966-1 | 6.60 | 20.5 |
| X | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| cl | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

$$L_P/\nabla^{1/3} = 10.0$$

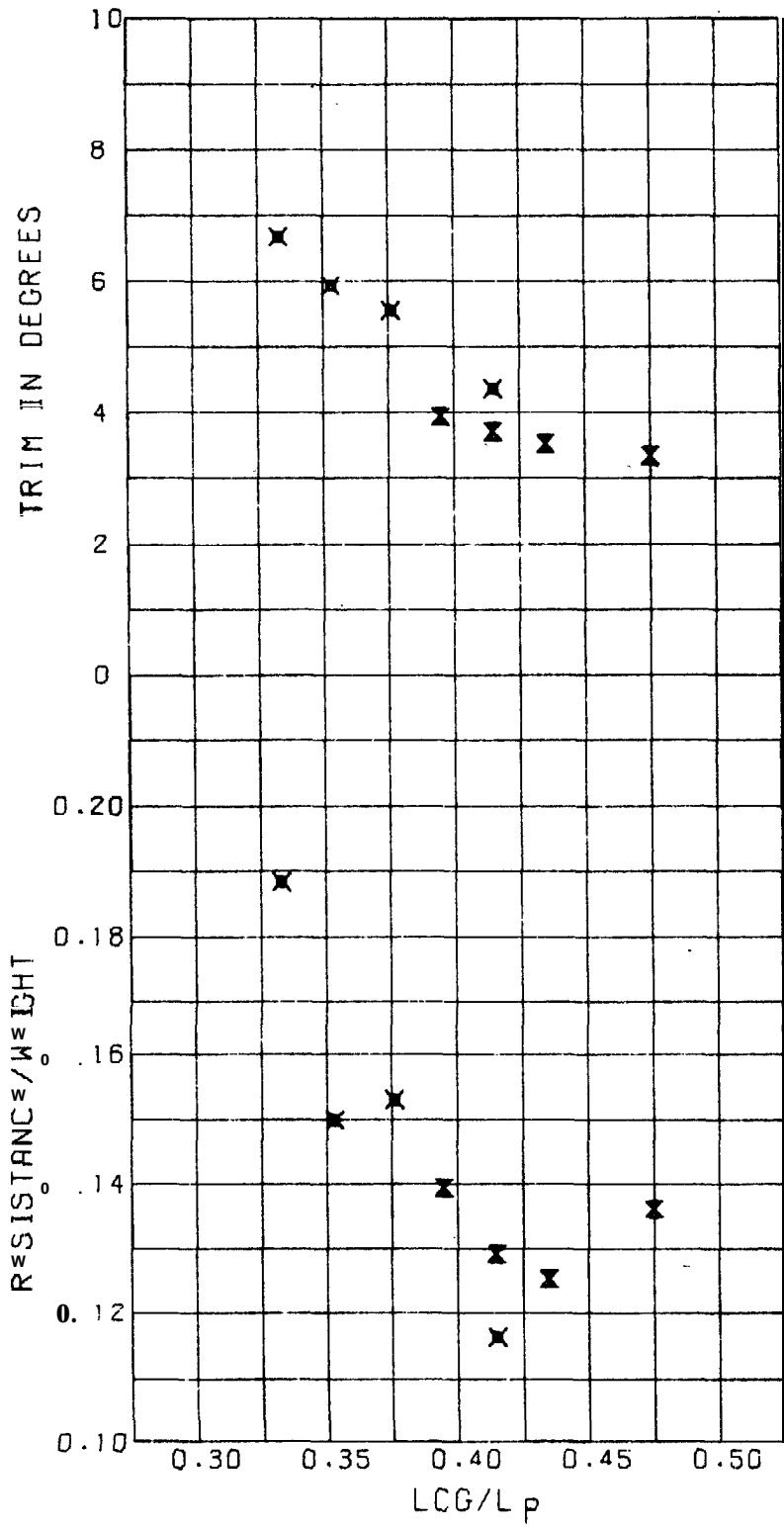
$$F_{N\nabla} = 3.00$$



| SYMBOL | MDEL | L_P/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5230 | 9.38 | 30.4 |

$$L_p / \nabla^{1/3} = 4.0$$

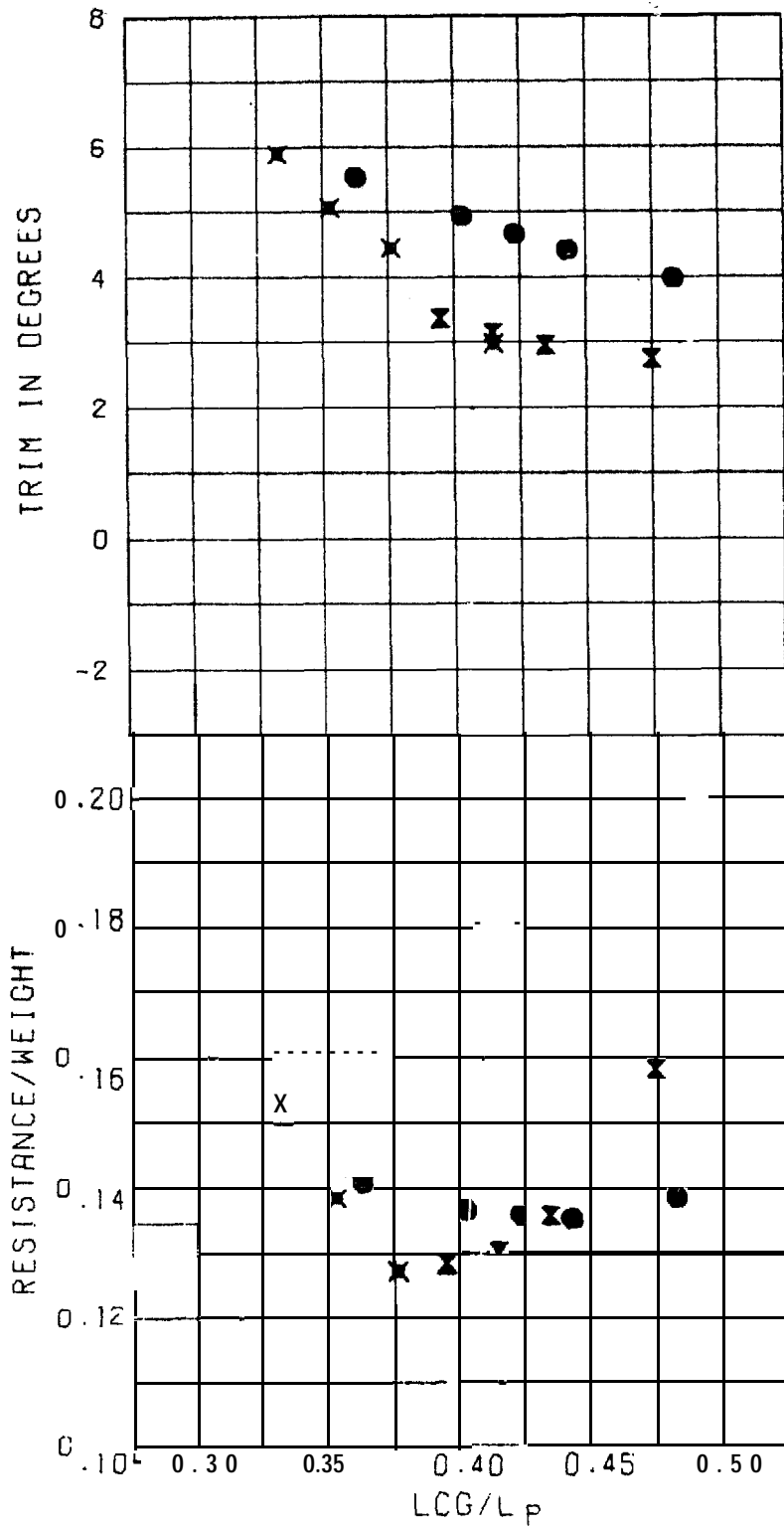
$$F_{N \nabla} = 3.50$$



| SYMBOL | MODEL | L_p / B_{PX} | β_T |
|--------|---------|----------------|-----------|
| ⌘ | 4665 | 2.00 | 12.5 |
| x | DL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 4.5$$

$$F_{N\nabla} = 3.50$$



SYMBOL MODEL L_p/B_{PX} β_T

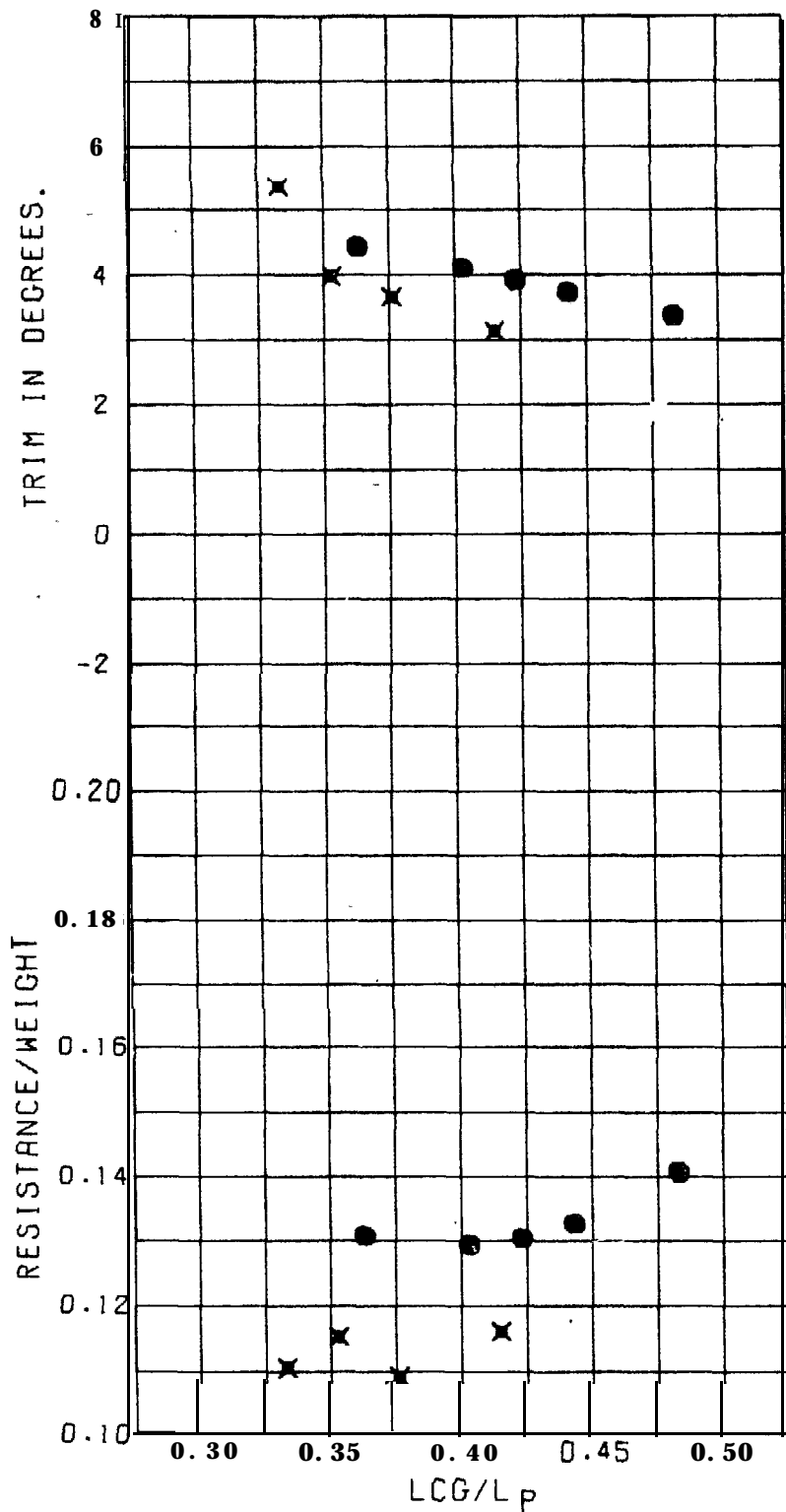
X 4665 2.00 12.5

● 4666 3.06 12.5

X DL 62-A 3.06 13.0

$$L_p/\nabla^{1/3} = 5.0$$

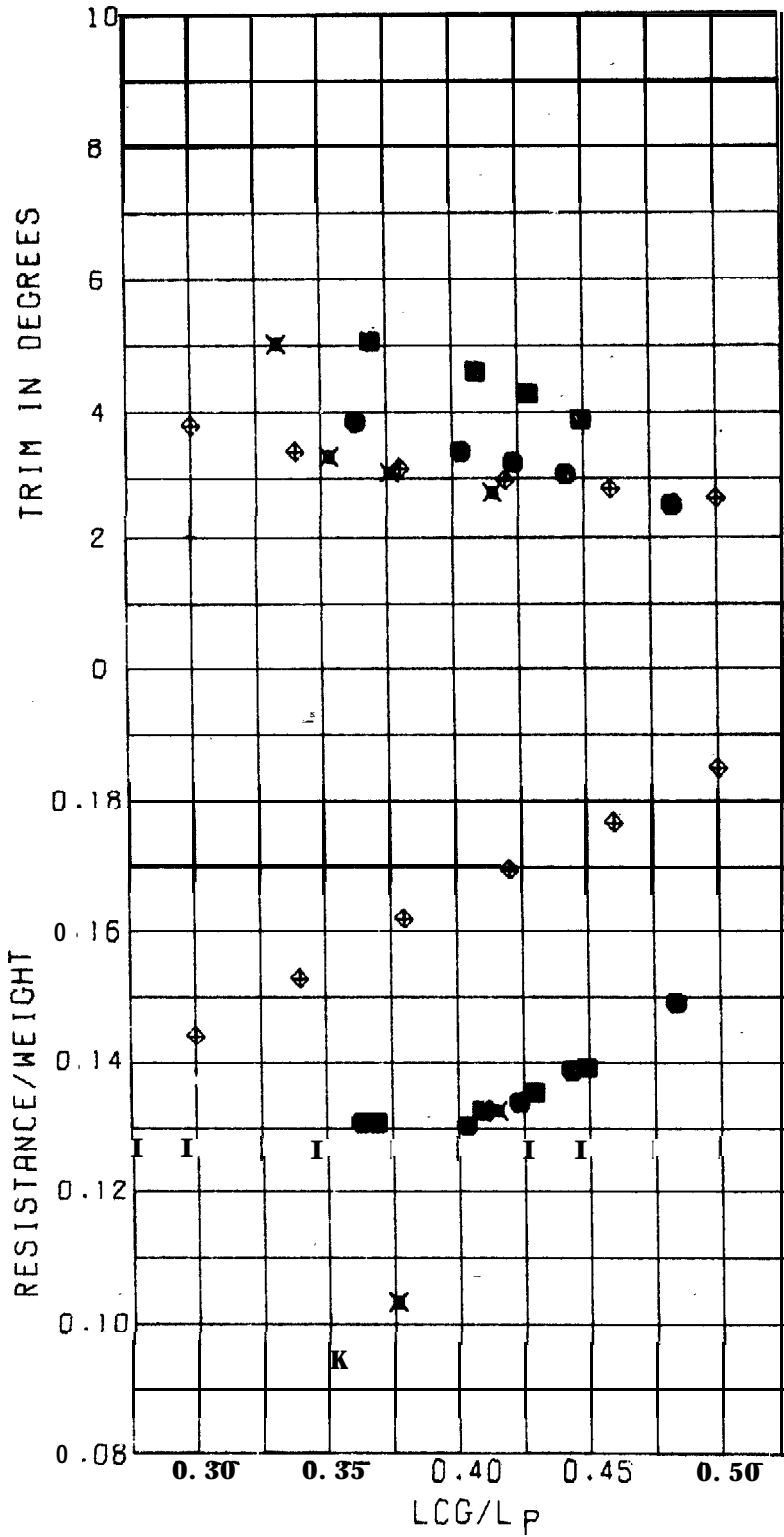
$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-A | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 5.5$$

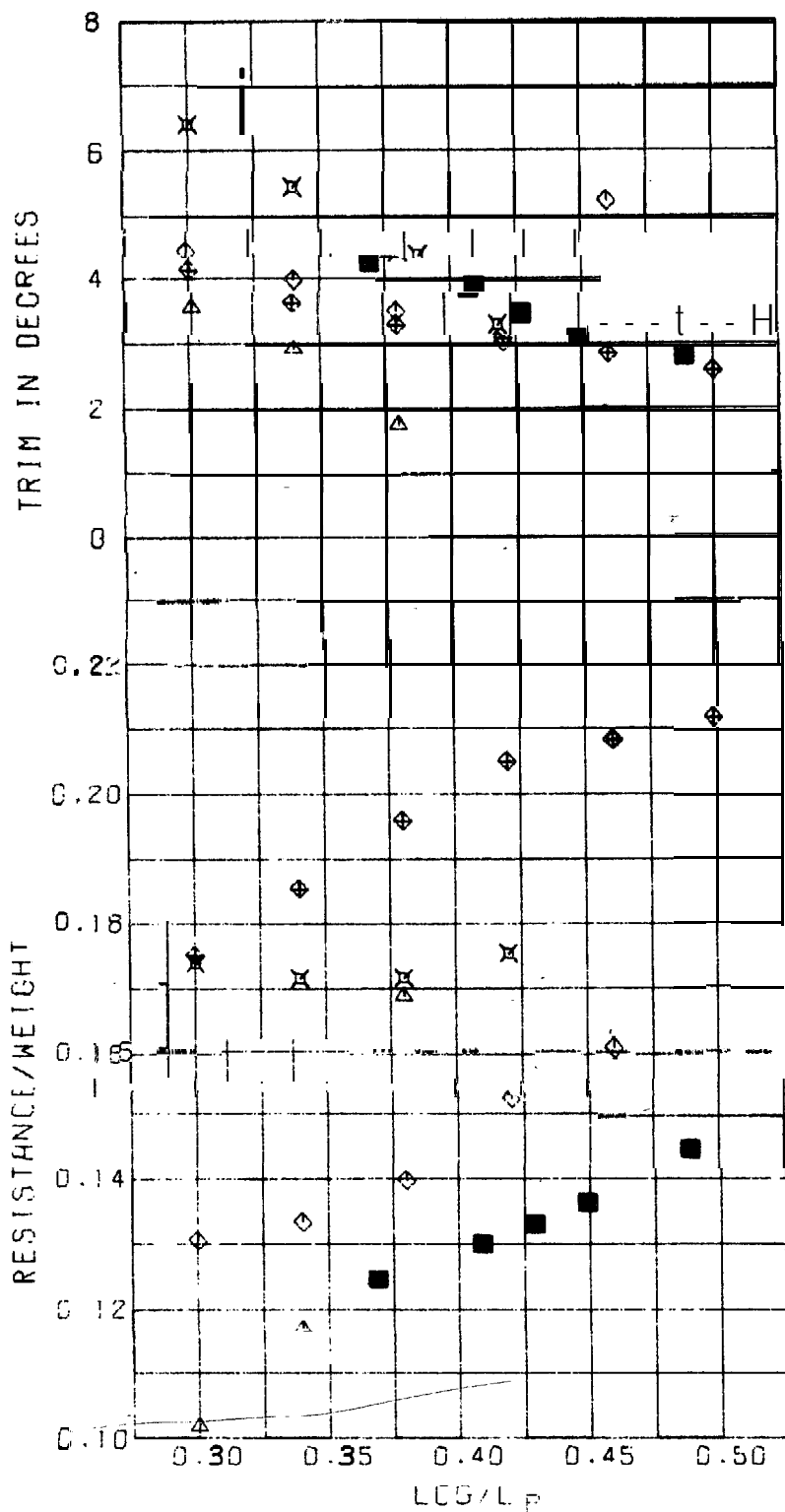
$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ◇ | 5237 | 2.35 | 16.3 |
| ● | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| × | DL 62-R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 6.0$$

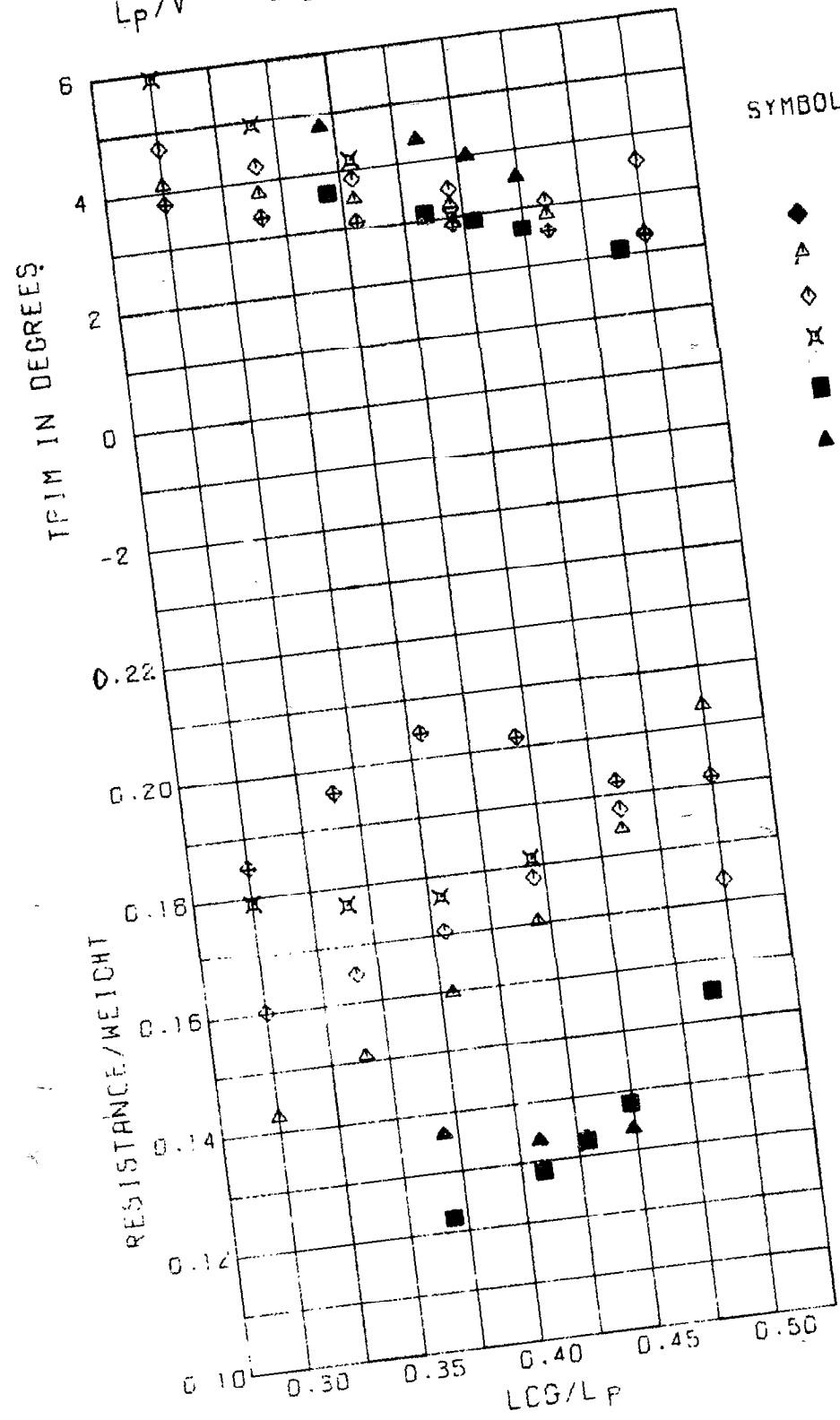
$$F_{N\nabla} = 3.50$$



SYMBOL MODEL $L_P/B_{P\chi}$ β_T

| | | | |
|---|--------|------|------|
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ✕ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |

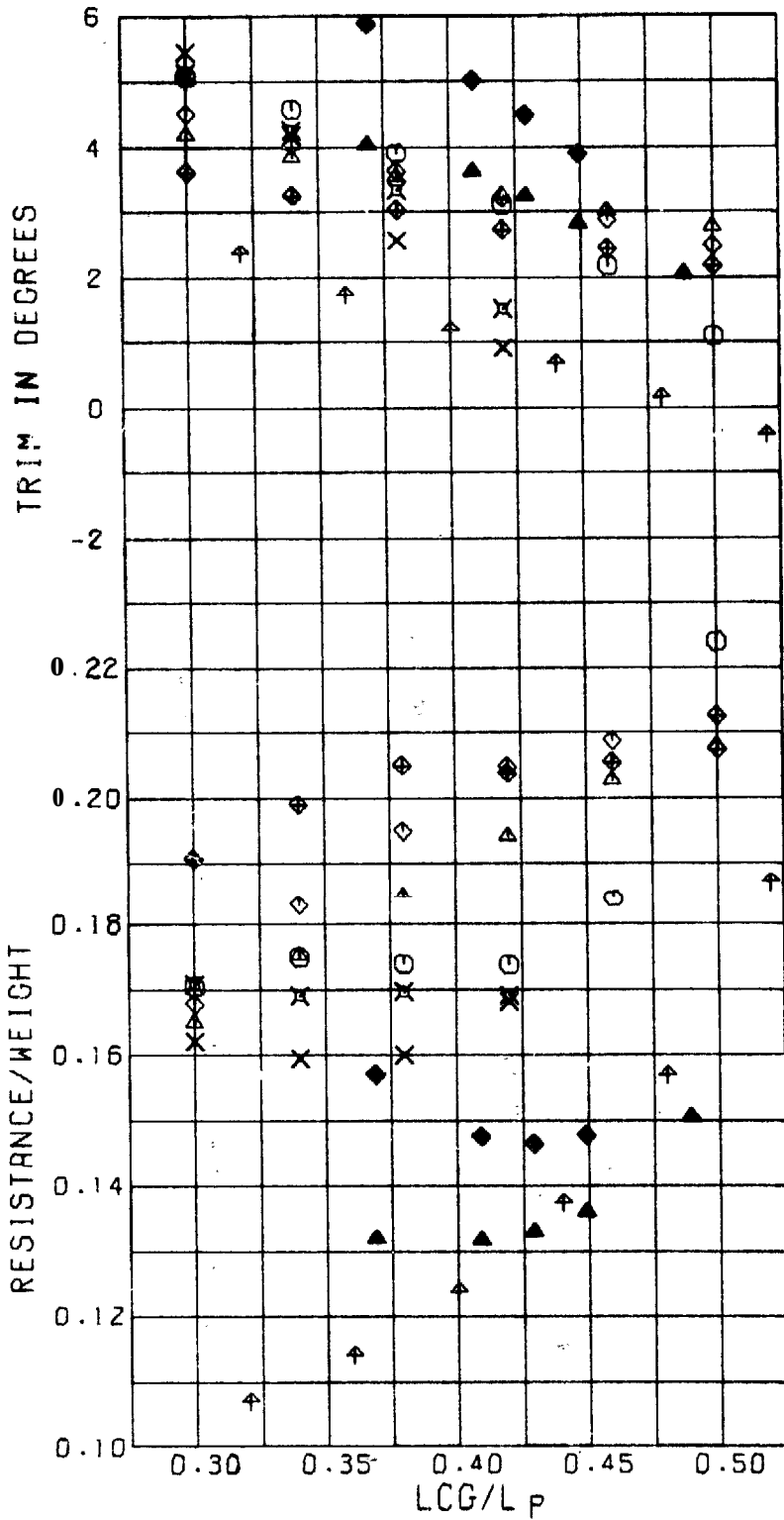
$L_p/\nabla^{1/3} = 6.5$ $F_{N\nabla} = 3.50$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ◆ | 5237 | 2.95 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| × | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 7.0 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0$$

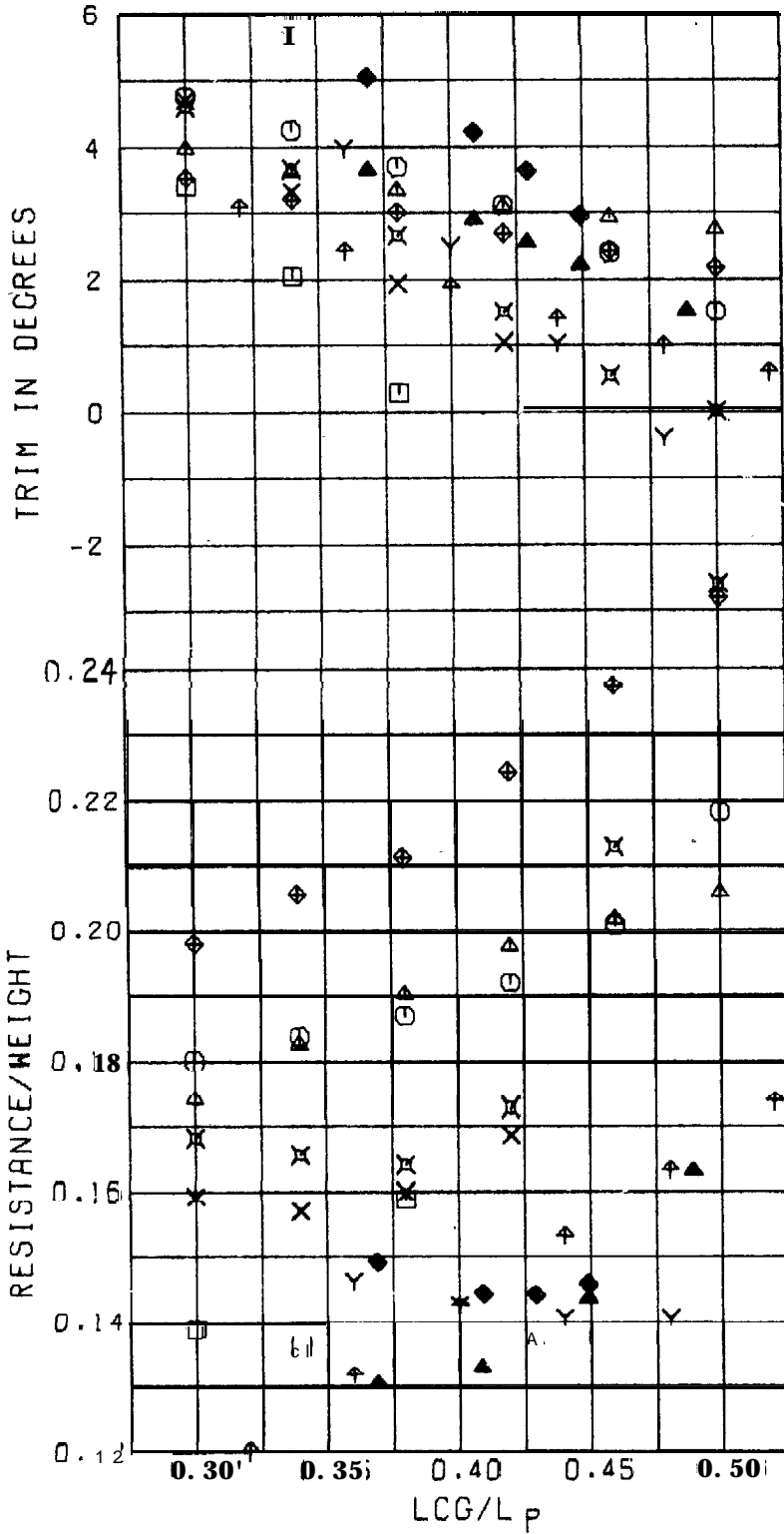
$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| ◆ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ◇ | 5186 | 3.32 | 22.5 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\nabla^{1/3} = 7.5$$

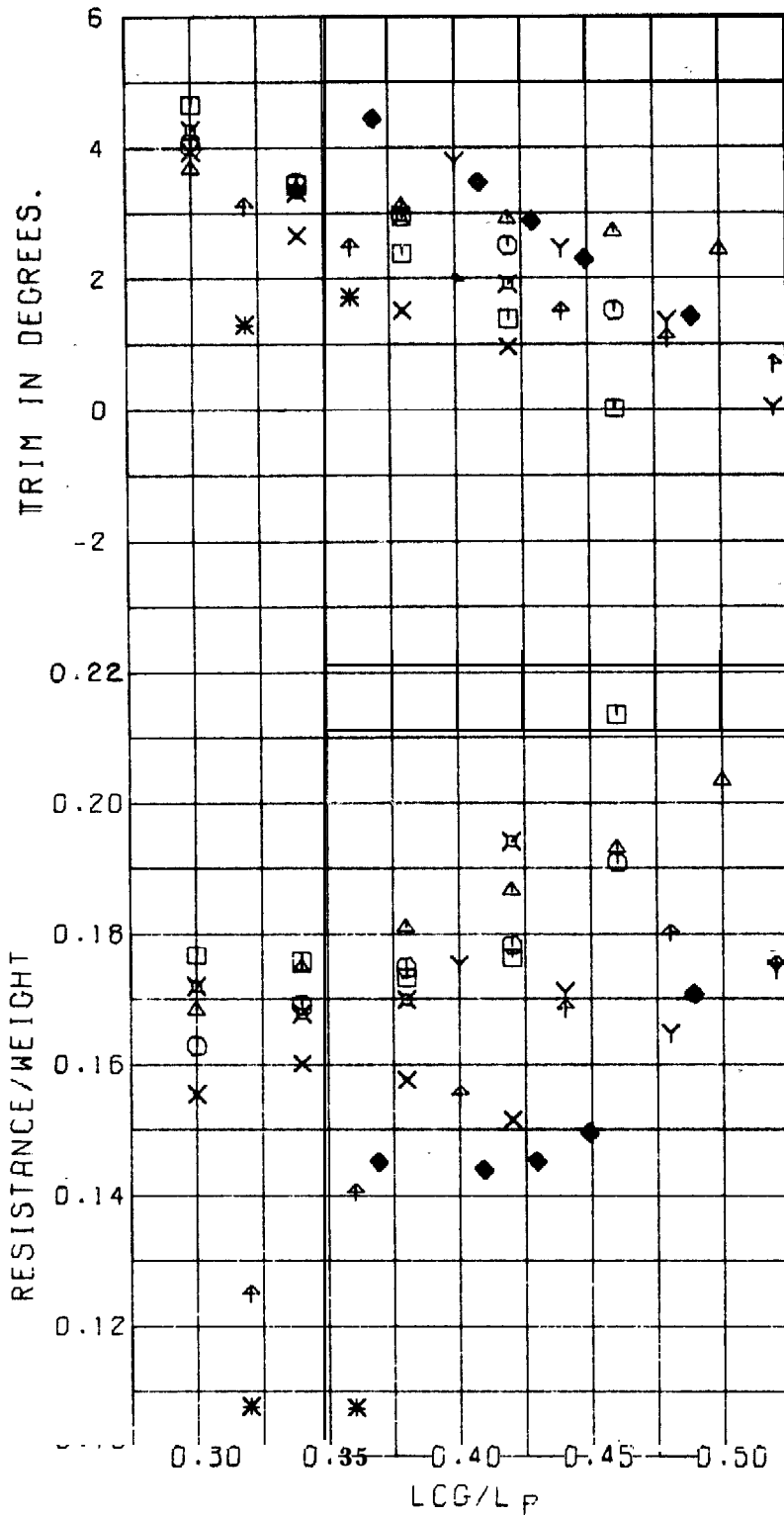
$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| Y | 5250 | 6.60 | 27.7 |
| ◇ | 5237 | 2.35 | 16.3 |
| △ | 5240 | 3.32 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ▲ | 4660 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P / \nabla^{1/3} = 8.0$$

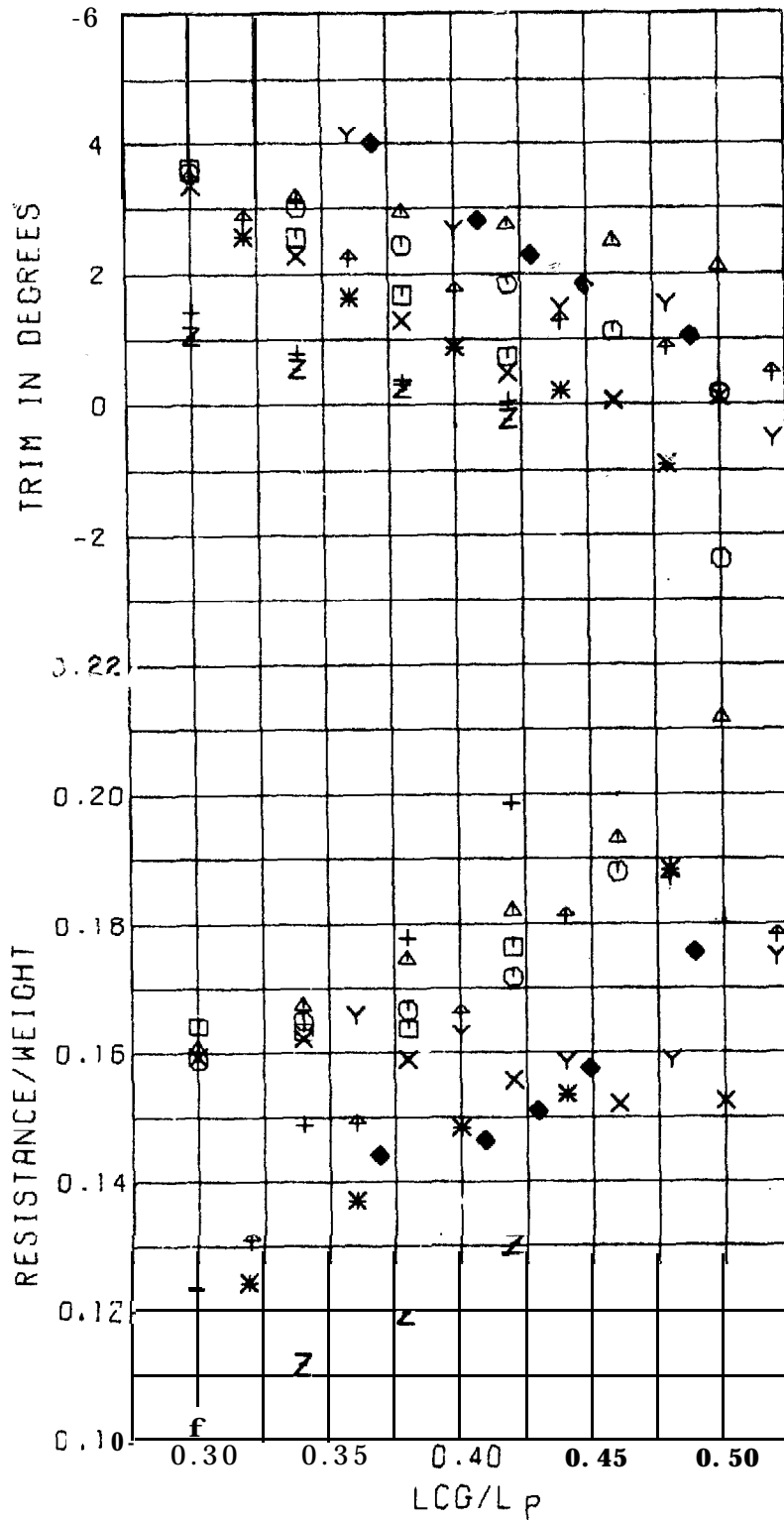
$$F_{N \nabla} = 3.50$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.56 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊗ | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ● | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

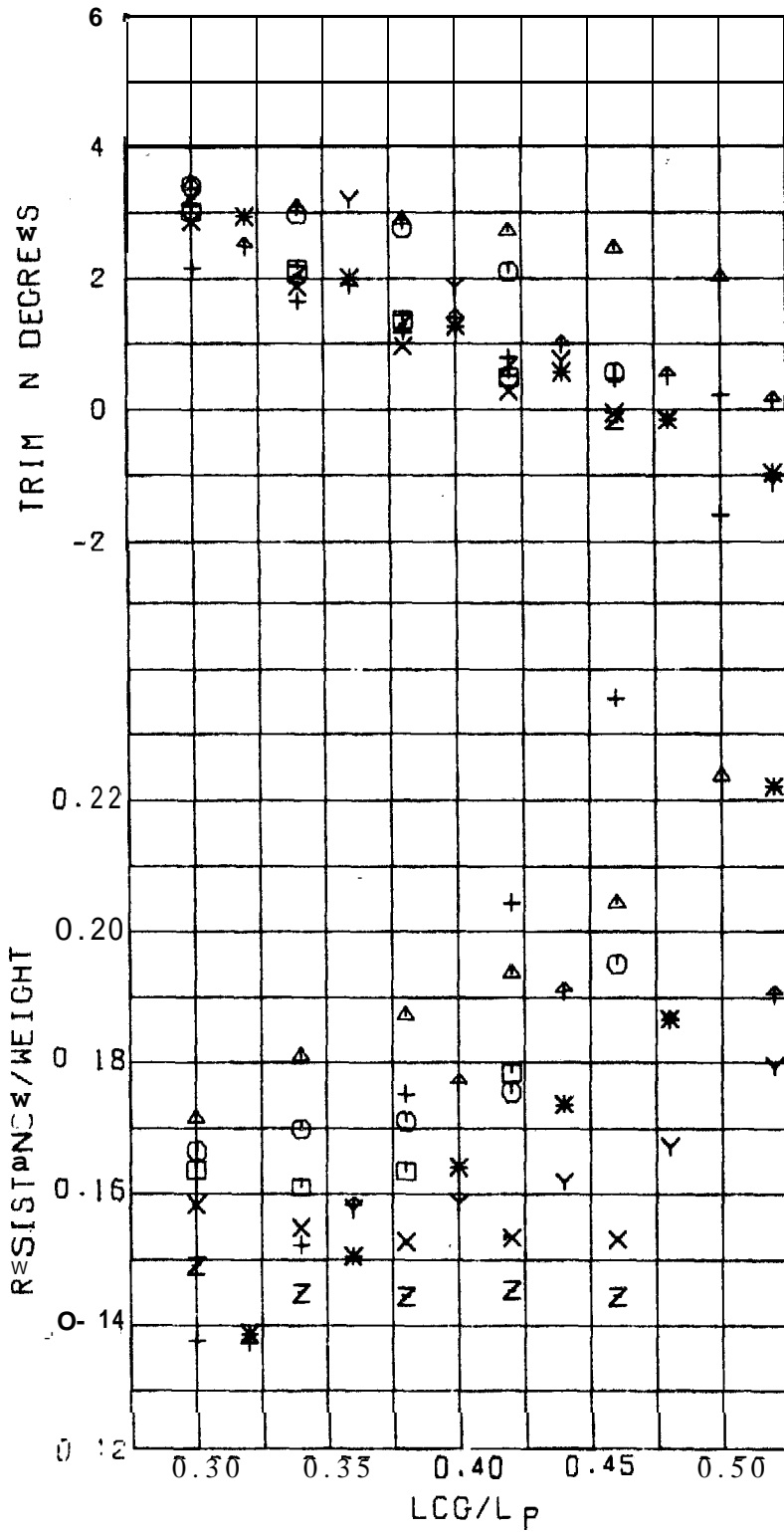
$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L_P/β_{PX} | β_T |
|--------|-------|------------------|-----------|
| † | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_p/\nabla^{1/3} = 9.0$$

$$F_{N\nabla} = 3.50$$

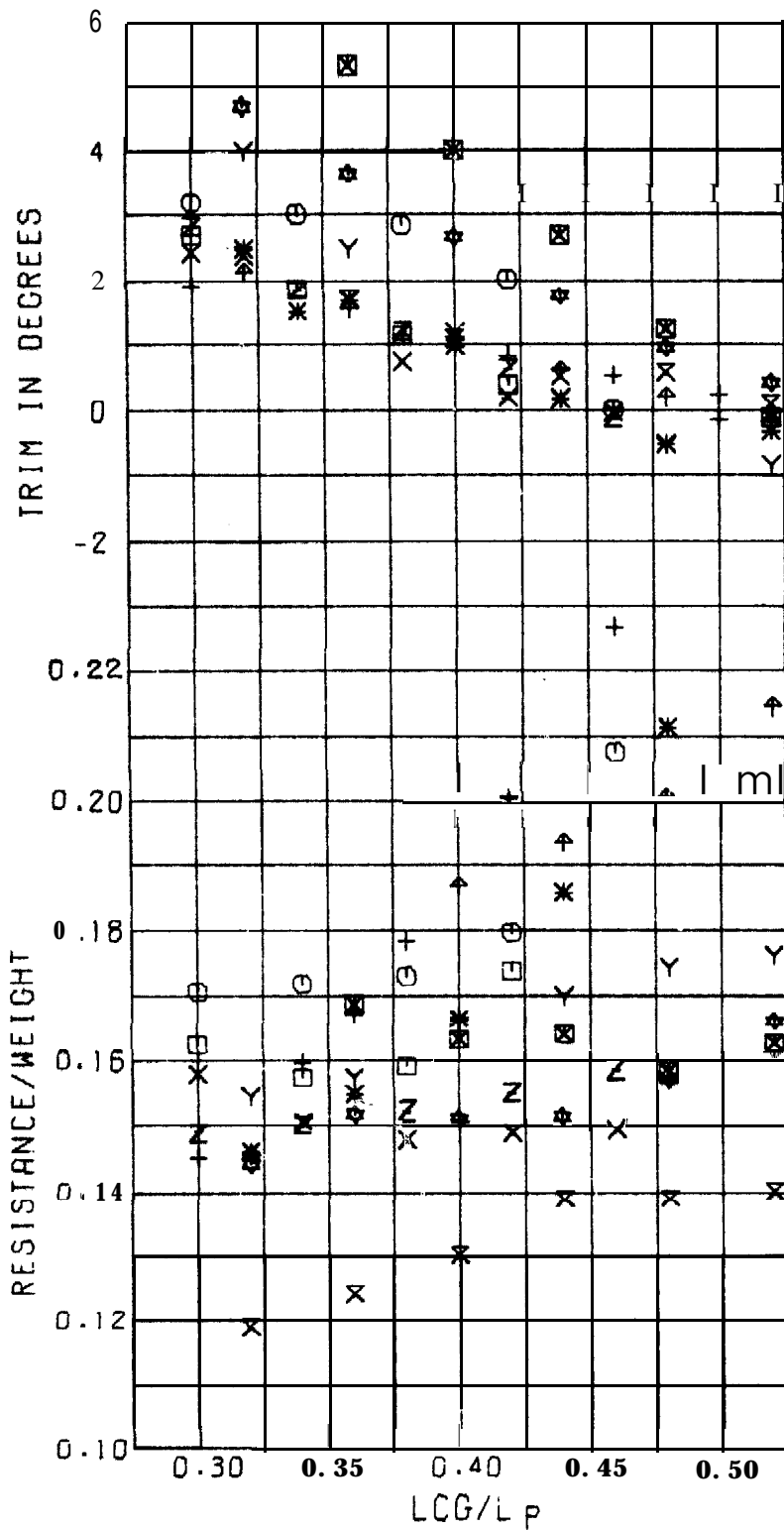


SYMBOL MODEL L_p/B_{PX} β_T

| | | | |
|---|------|------|------|
| ↑ | 5251 | 3.30 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| △ | 5240 | 3.32 | 16.3 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |

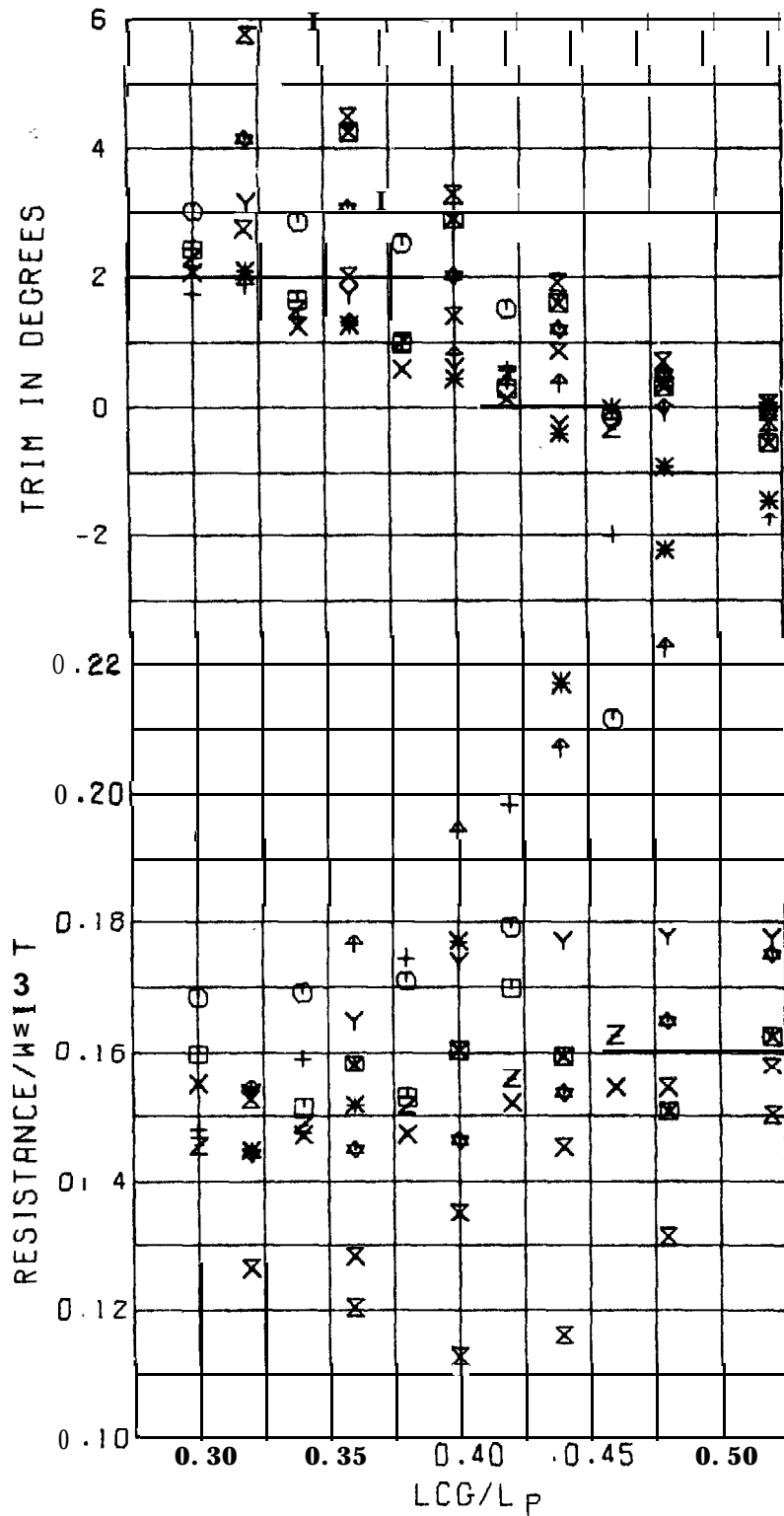
$$L_P/\nabla^{1/3} = 9.5$$

$$F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L _P /B _{PX} | β _T |
|--------|--------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.8 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊙ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5240 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊖ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| ⊙ | 5238 | 9.38 | 30.4 |

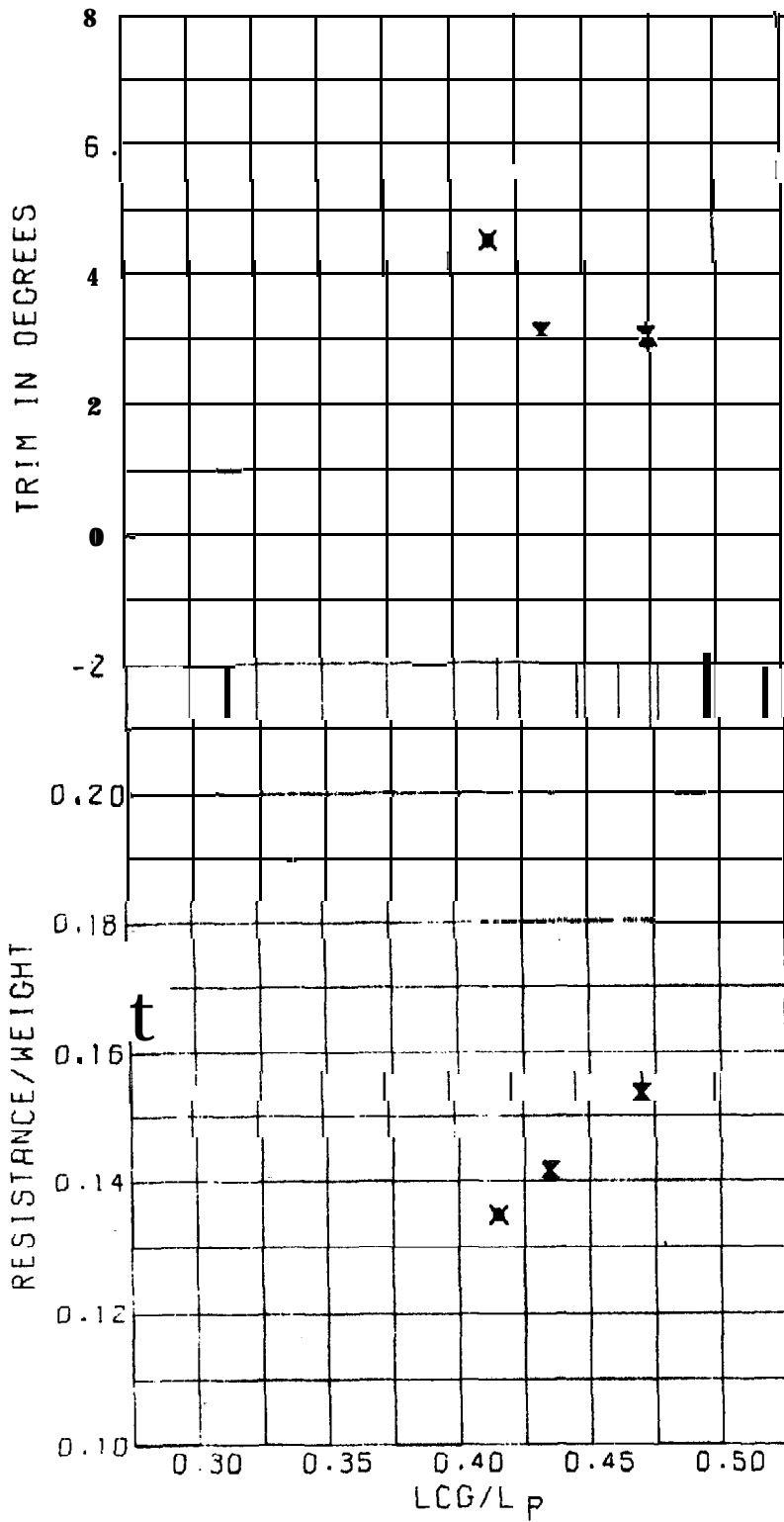
$$L_p/\nabla^{1/3} = 10.0 \quad F_{N\nabla} = 3.50$$



| SYMBOL | MODEL | L _p /B _{pX} | β _T |
|--------|--------|---------------------------------|----------------|
| ↑ | 5251 | 3.30 | 14.6 |
| X | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5: |
| ⊗ | 5204 | 9.34 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| ⊠ | 5248 | 9.34 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5107 | 6.64 | 22.5 |
| ⊠ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.36 | 30.4 |

$$L_p/\nabla^{1/3} = 4.0$$

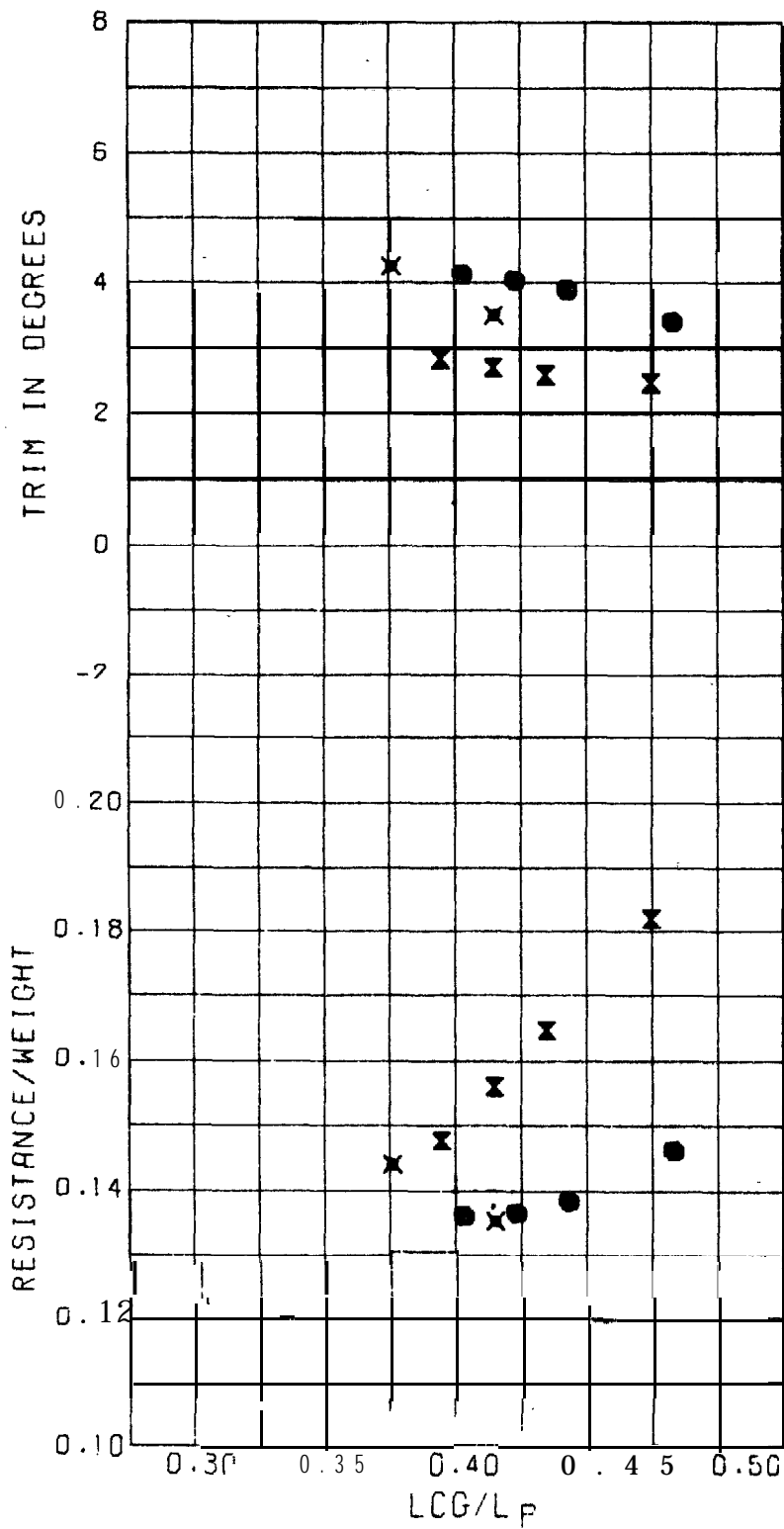
$$F_{N\nabla} = 4.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| ⌘ | 4665 | 2.00 | 12.5 |
| X | OL 62-R | 3.06 | 13.0 |

$$L_P/\nabla^{1/3} = 4.5$$

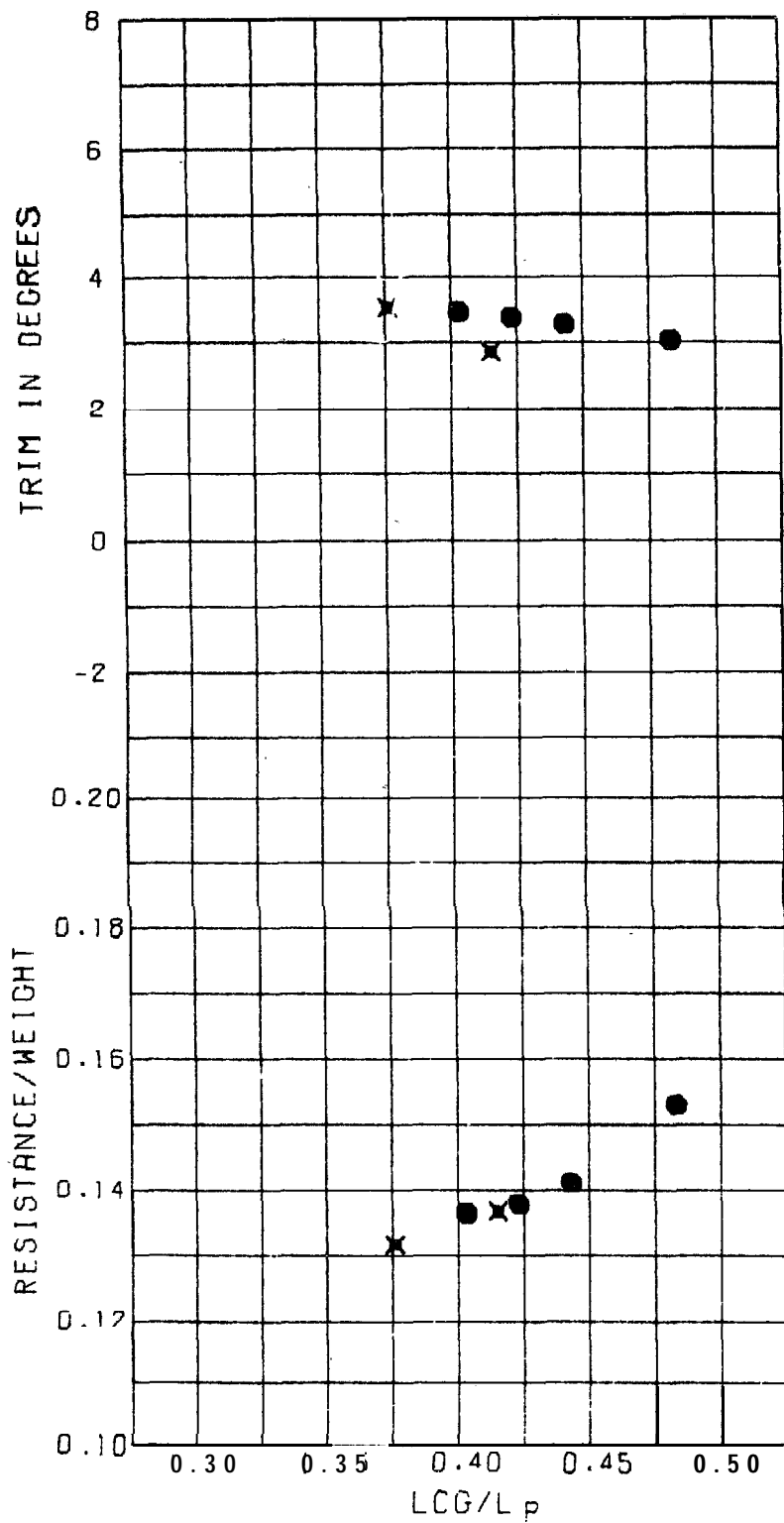
$$F_{N\nabla} = 4.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| X | 4665 | 2.00 | 12.5 |
| ● | 4666 | 3.06 | 12.5 |
| X | DL 62-R | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 5.0$$

$$F_{N\nabla} = 4.00$$



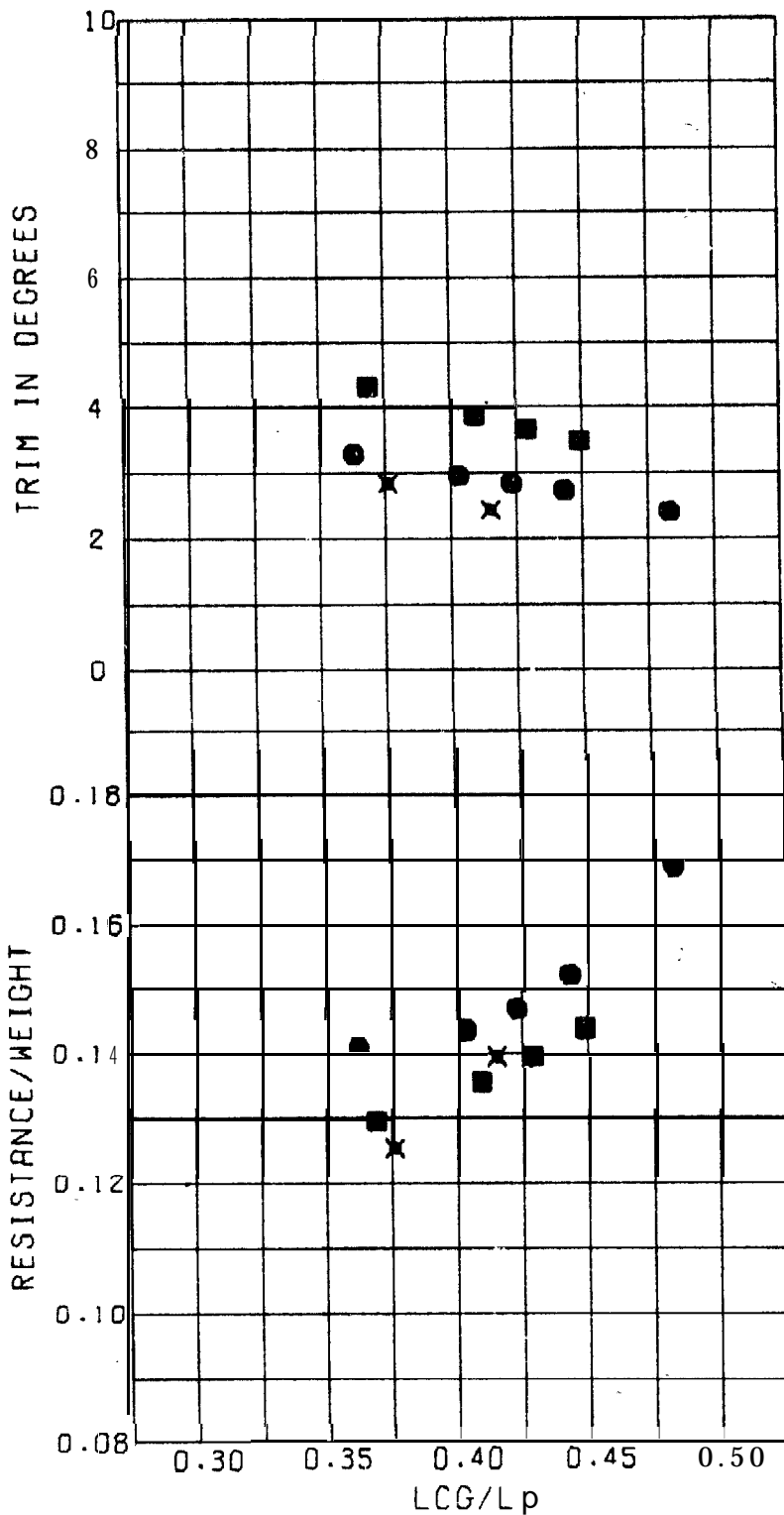
SYMBOL MODEL $L_p/B_p \times \beta_T$

● 4666 3.06 12.5

× DL 62-R 3.06 13.0

$$L_p/\nabla^{1/3} = 5.5$$

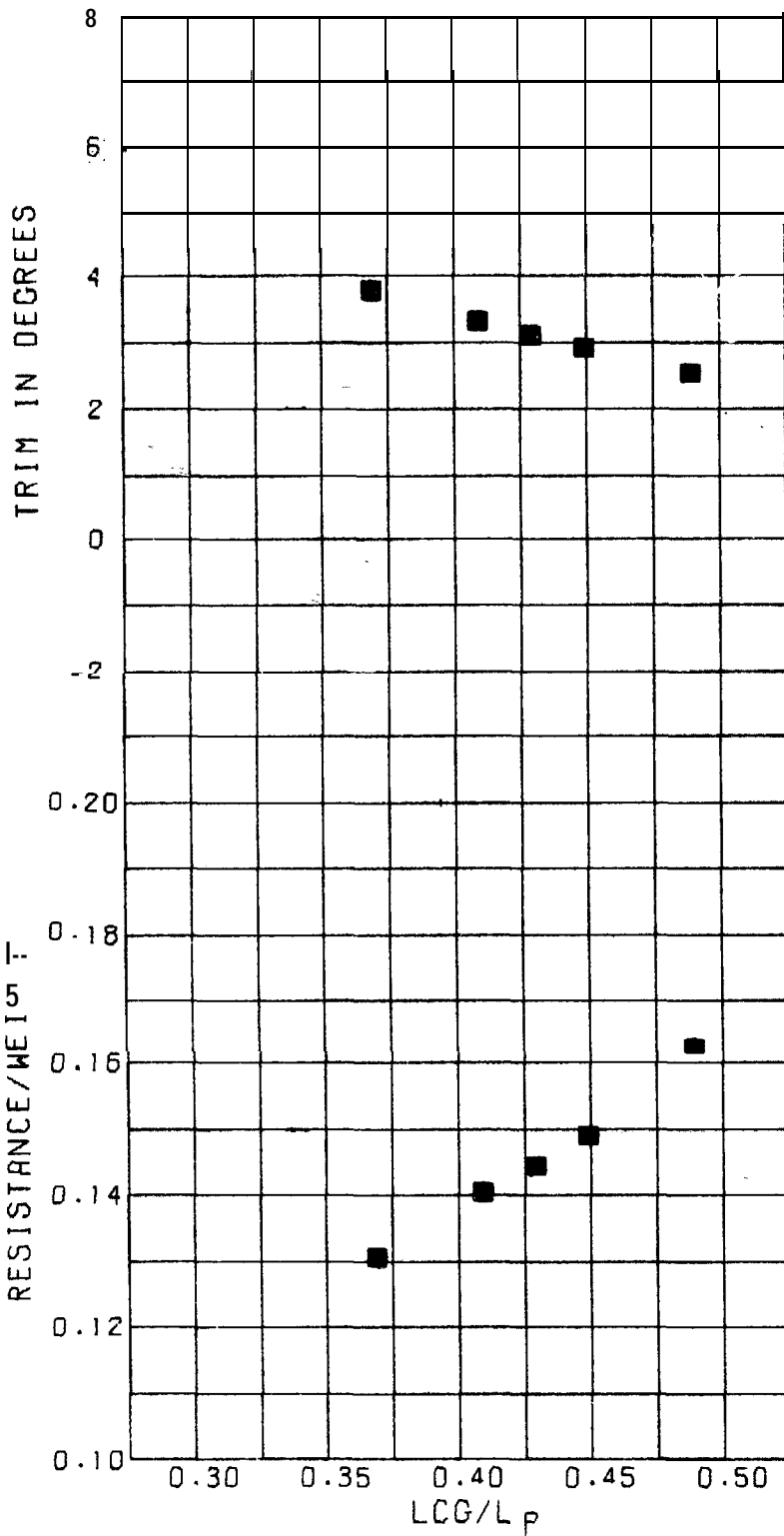
$$F_{N\nabla} = 4.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|---------|--------------|-----------|
| a | 4666 | 3.06 | 12.5 |
| ■ | 4667-1 | 4.09 | 12.5 |
| × | DL 62-A | 3.06 | 13.0 |

$$L_p/\nabla^{1/3} = 6.0$$

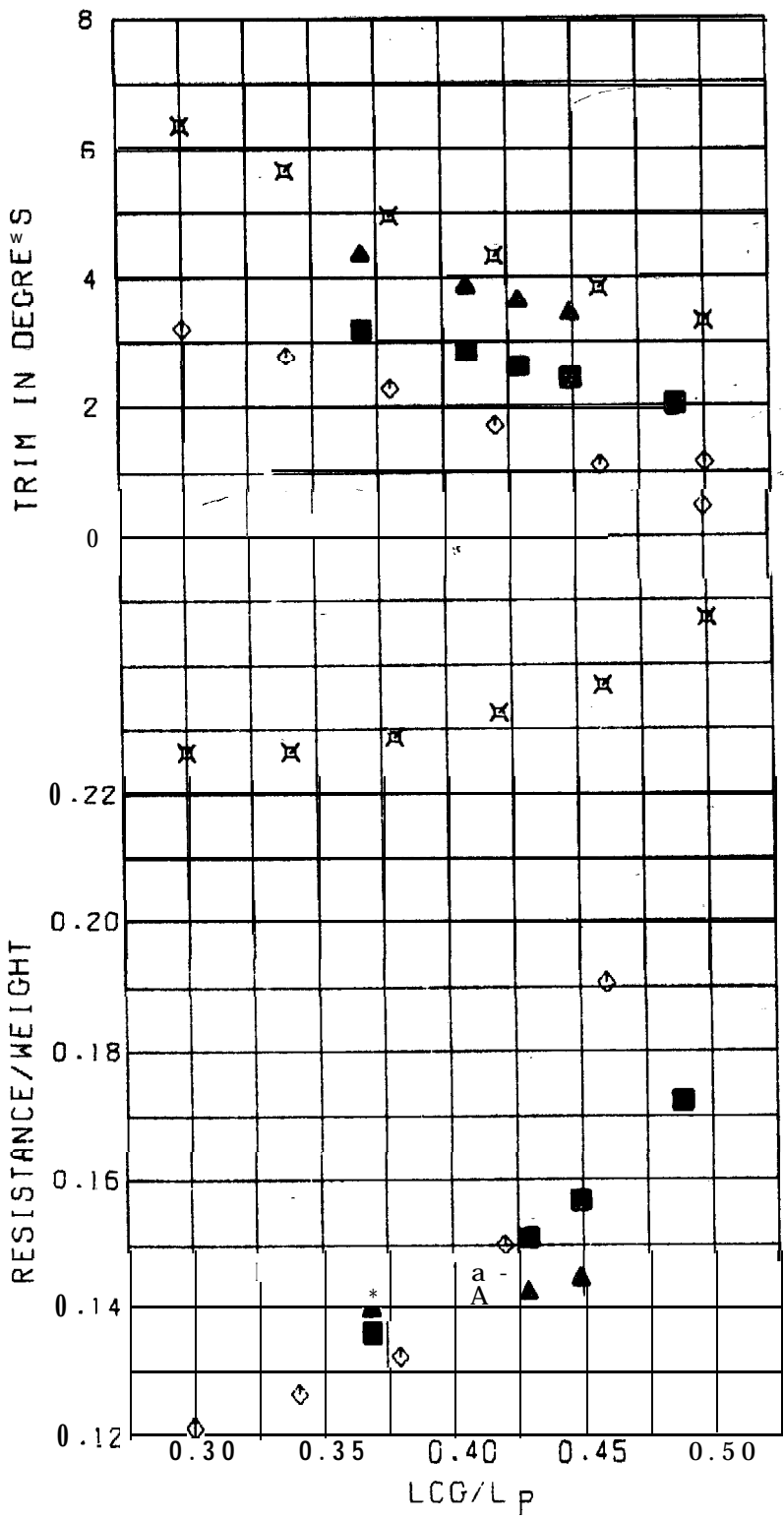
$$F_{N\nabla} = 4.00$$



SYMBOL MODEL L_p/B_{PX} β_T

■ 4667-1 4.09 12.5

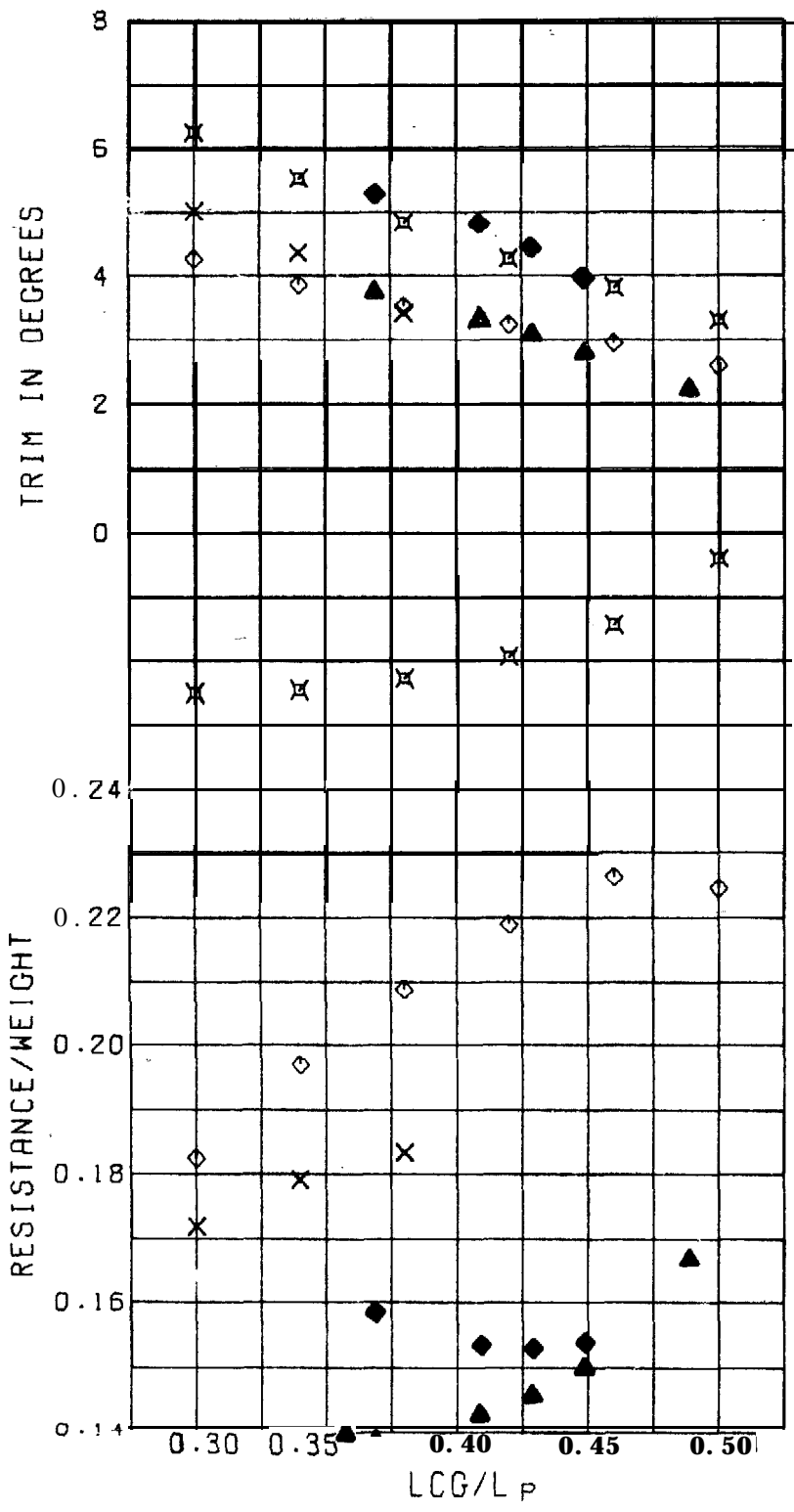
$L_p/\nabla^{1/3} = 6.5$ $F_{N\nabla} = 4.00$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ◇ | 5186 | 3.32 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ■ | 4667-1 | 4.09 | 12.5 |
| ▲ | 4668 | 5.50 | 12.5 |

$$L_P/\nabla^{1/3} = 7.0$$

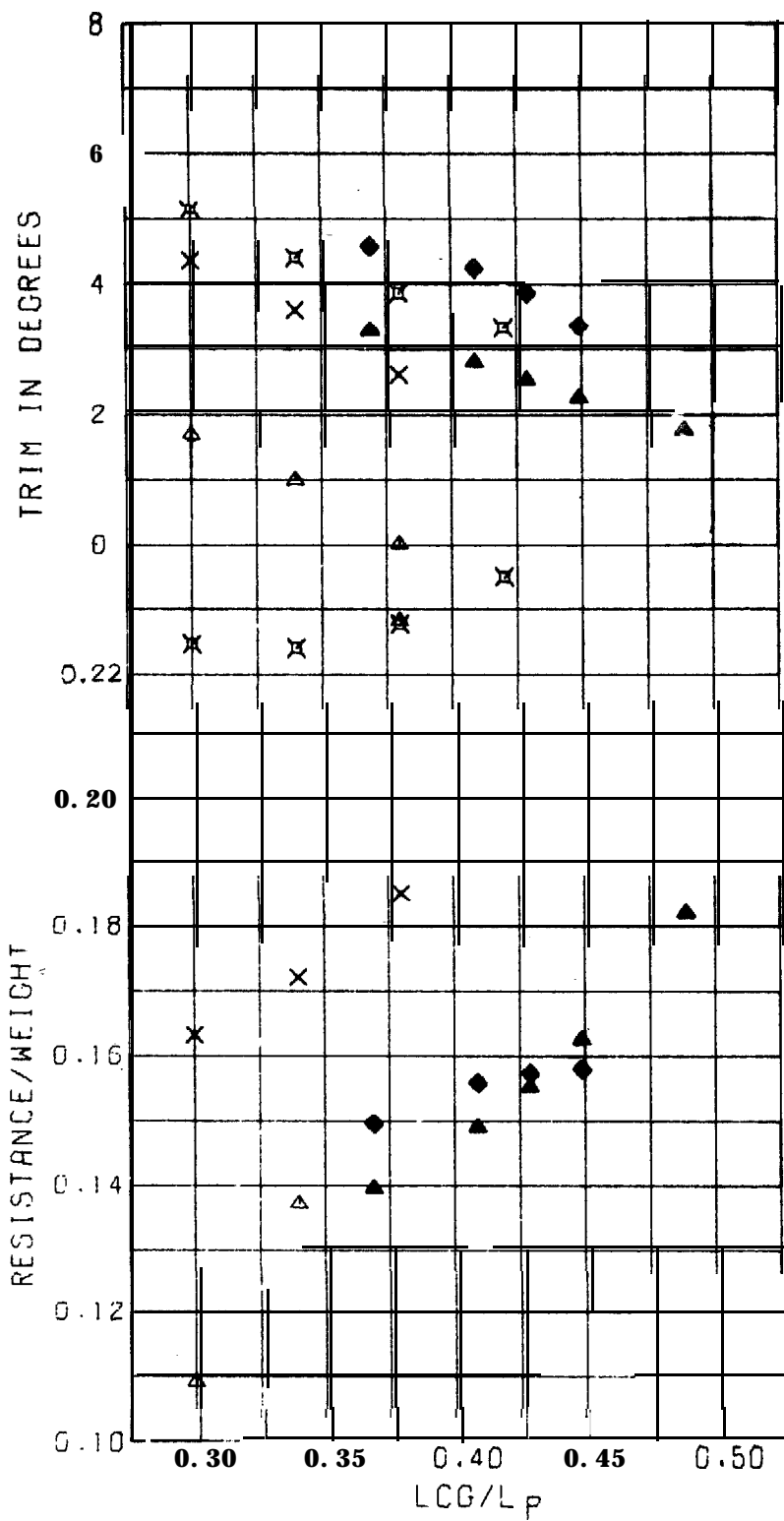
$$F_{NV} = 4.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| ◇ | 5186 | 3.32 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 7.5$$

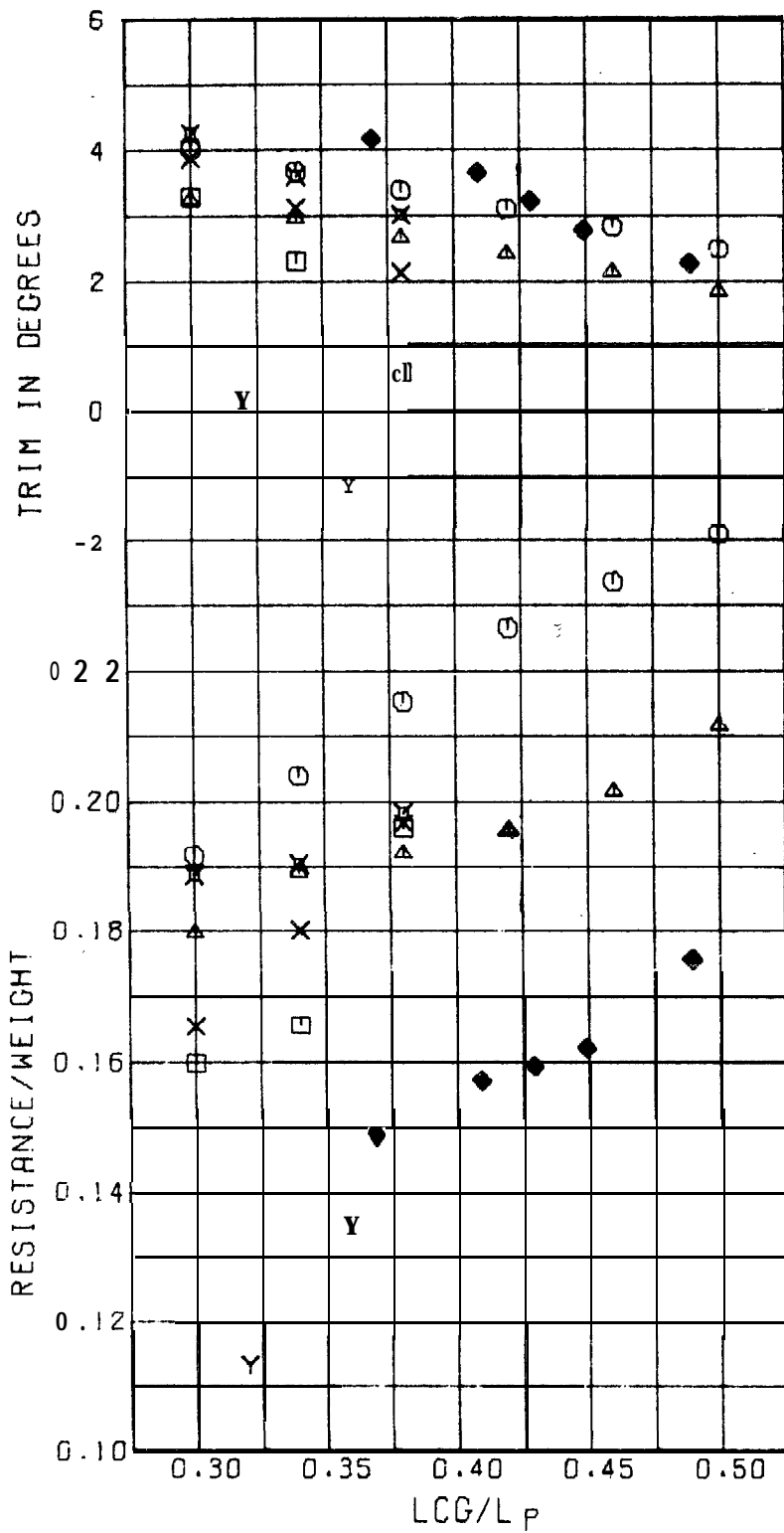
$$F_{N\nabla} = 4.00$$



| SYMBOL | MODEL | L _P /B _{PX} | β _T |
|--------|-------|---------------------------------|----------------|
| △ | 5240 | 3.32 | 16.3 |
| X | 5167 | 6.64 | 22.5 |
| ⊠ | 5236 | 4.69 | 30.4 |
| ▲ | 4668 | 5.50 | 12.5 |
| ● | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.0$$

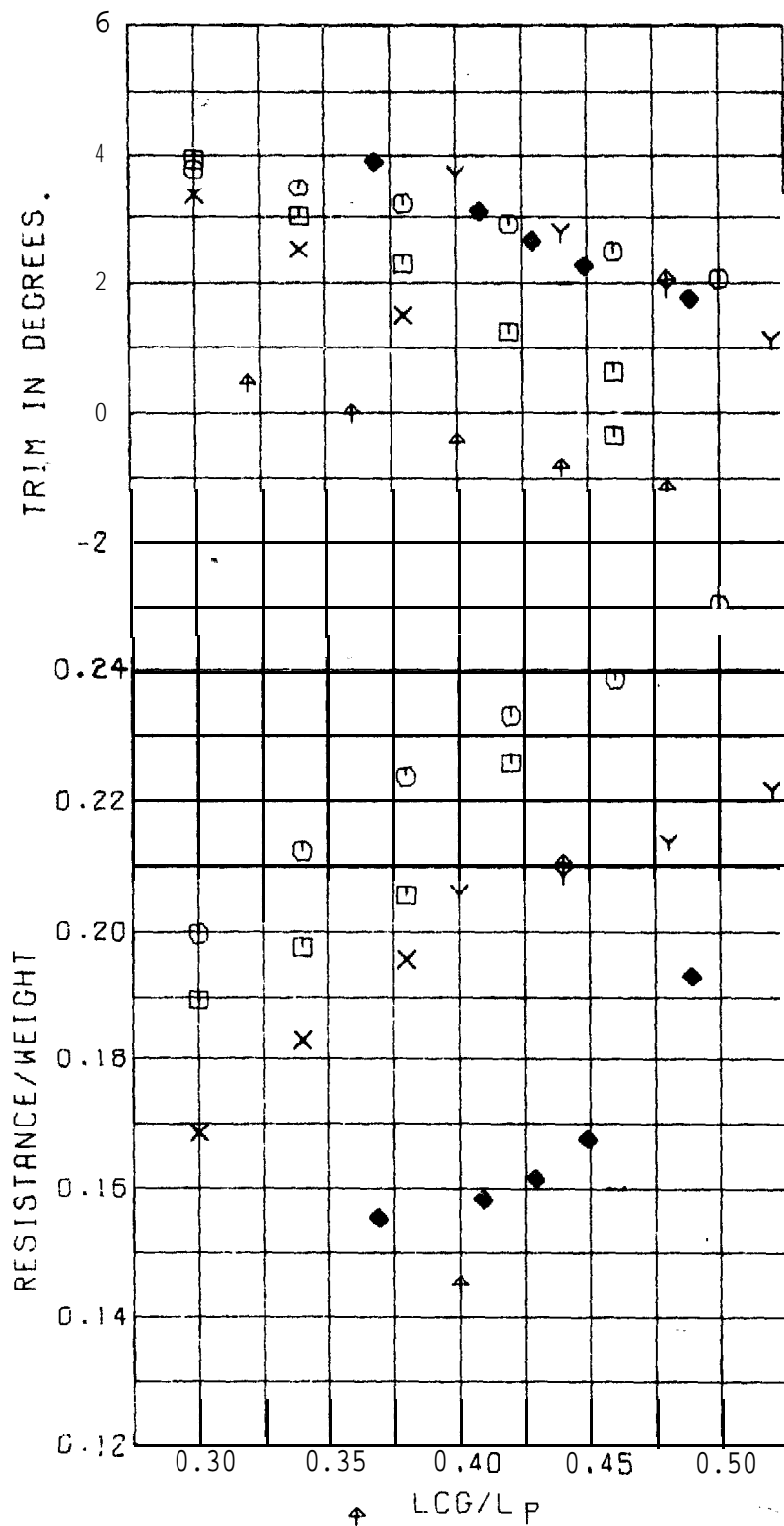
$$F_{N\nabla} = 4.00$$



| SYMBOL | MDEL | L_P/B_{PX} | β_T |
|--------|------|--------------|-----------|
| Y | 5250 | 6.60 | 27.7 |
| A | 5240 | 3.32 | 16.3 |
| O | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| X | 5236 | 4.69 | 30.4 |
| □ | 5208 | 6.64 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 8.5$$

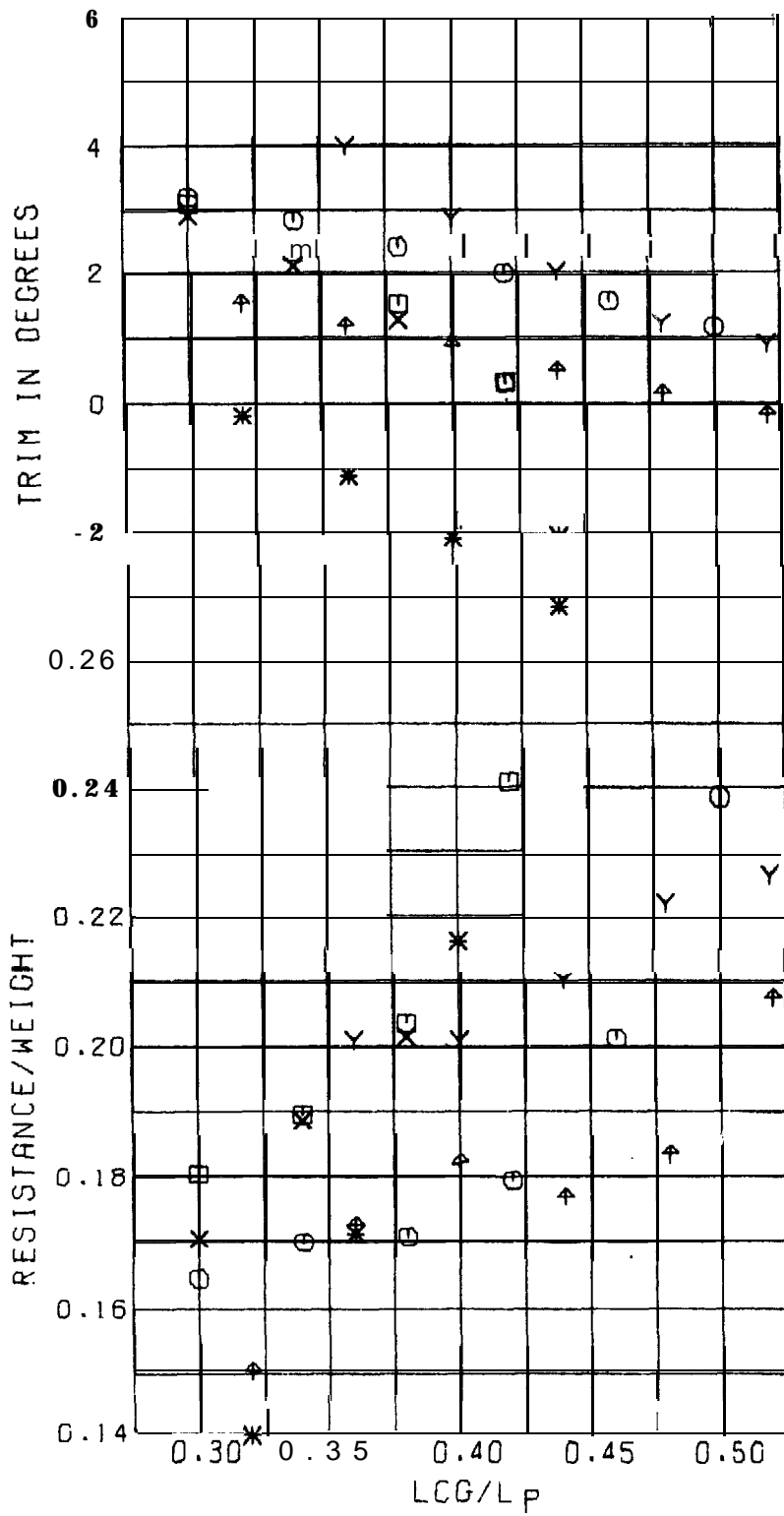
$$F_{N\nabla} = 4.00$$



| SYMBOL | MODEL | L_P/B_{PX} | β_T |
|--------|-------|--------------|-----------|
| △ | 5251 | 3.30 | 14.8 |
| Y | 5250 | 6.60 | 27.7 |
| ○ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| ◆ | 4669 | 7.00 | 12.5 |

$$L_P/\nabla^{1/3} = 9.0$$

$$F_{N\nabla} = 4.00$$



SYMBOL MODEL. L_P/EI_P $\times \beta_T$

\blacktriangle 5251 3.30 14.8

$*$ 5198 4.66 20.5

Y 5250 6.60 27.7

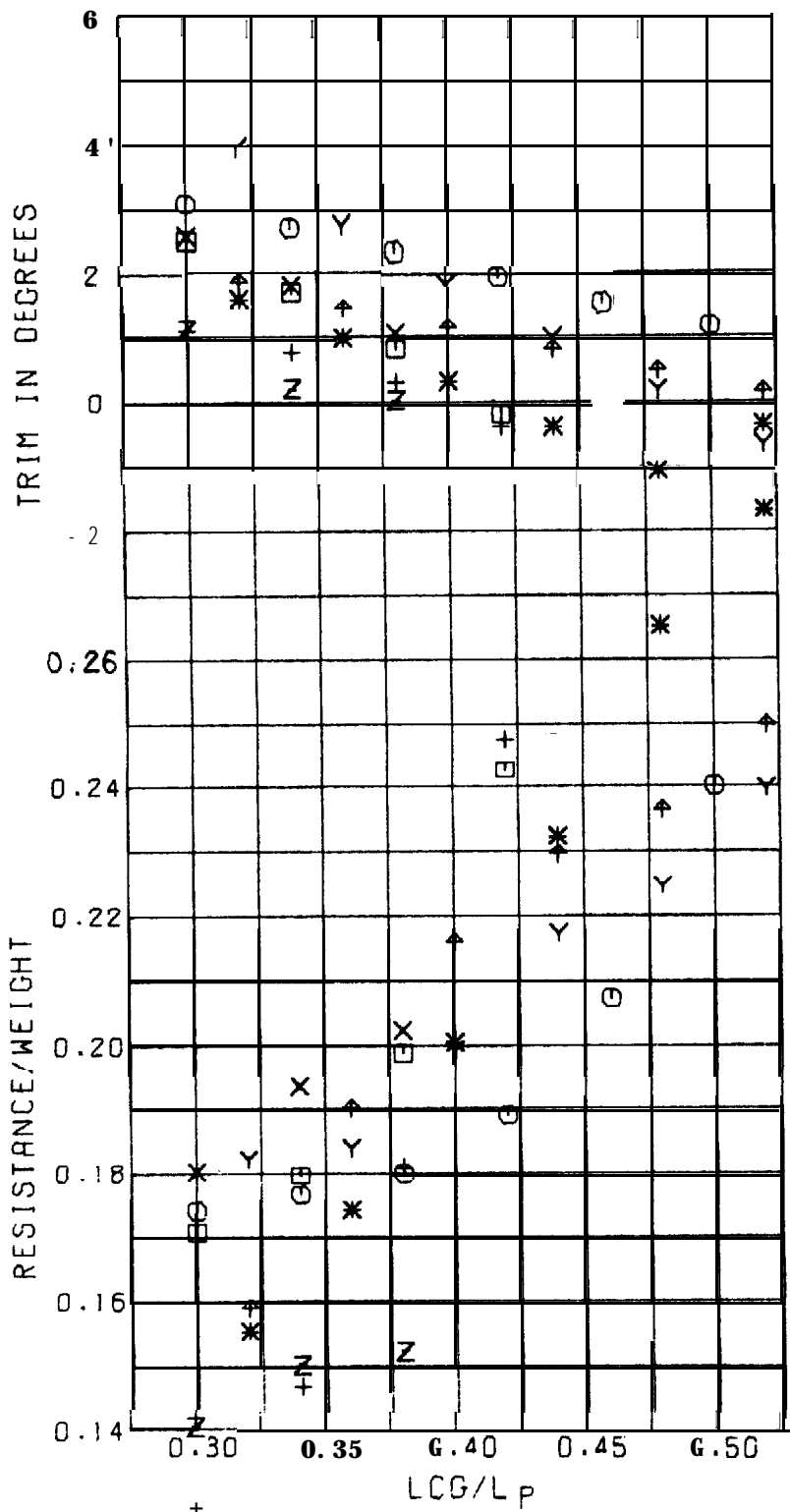
\odot 5184 4.69 22.5

X 5167 6.64 22.5

\square 5208 6.64 30.4

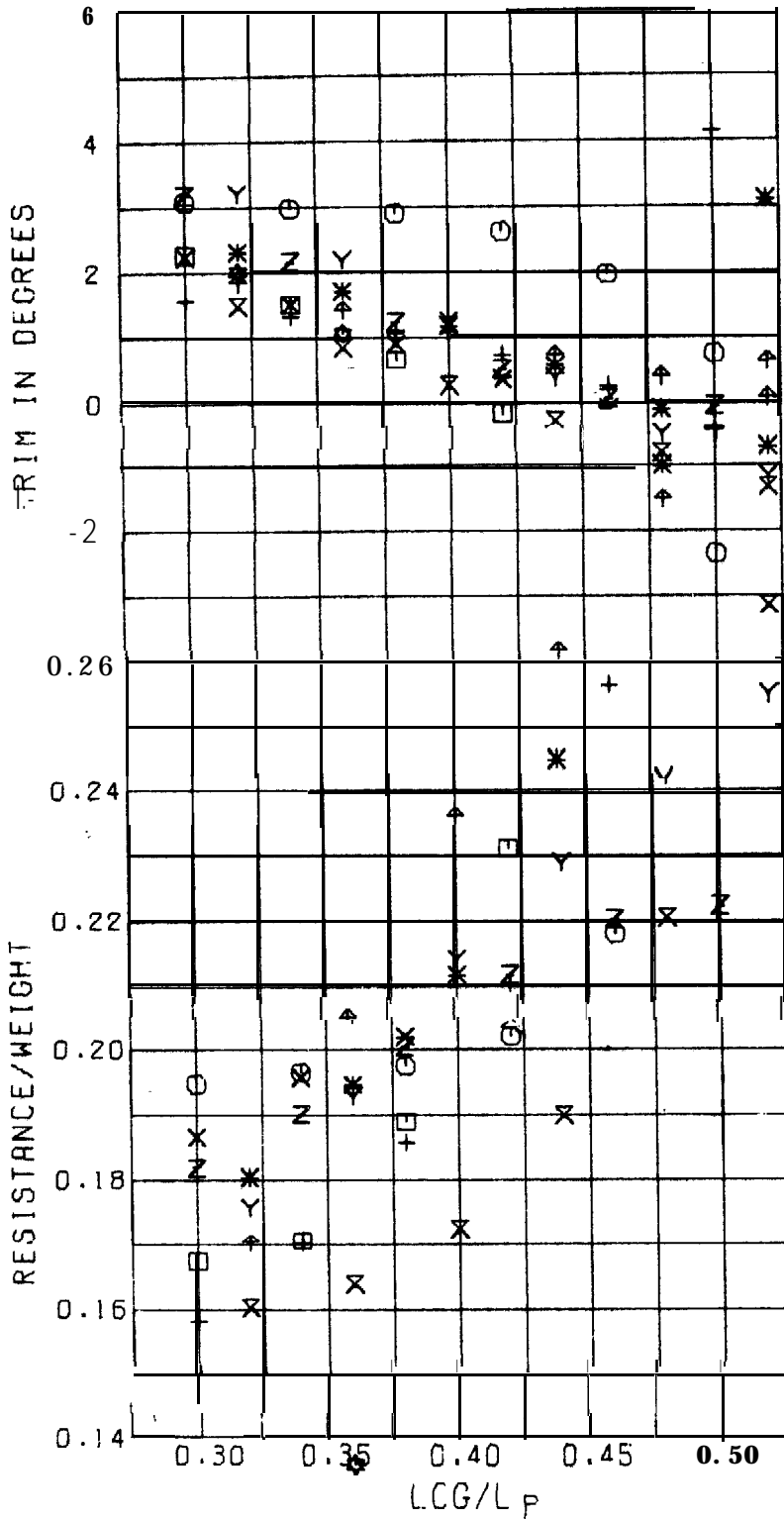
$$L_P/\nabla^{1/3} = 9.5$$

$$F_{N\nabla} = 4.00$$



$$L_p/\nabla^{1/3} = 10.0$$

$$F_N \nabla = 4.00$$



| SYMBOL | MODEL | L_p/B_{PX} | β_T |
|--------|--------|--------------|-----------|
| ↑ | 5251 | 3.30 | 14.8 |
| × | 5249 | 4.66 | 14.8 |
| * | 5198 | 4.66 | 20.5 |
| ⊕ | 4966-1 | 6.60 | 20.5 |
| Y | 5250 | 6.60 | 27.7 |
| + | 5239 | 4.69 | 16.3 |
| ⊙ | 5184 | 4.69 | 22.5 |
| X | 5167 | 6.64 | 22.5 |
| □ | 5208 | 6.64 | 30.4 |
| Z | 5238 | 9.38 | 30.4 |