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**DAVID W. TAYLOR NAVAL SHIP  
RESEARCH AND DEVELOPMENT CENTER**



Bethesda, Maryland 20884

**THE ALUMINUM SHIP EVALUATION MODEL (ASEM)  
STATIC TEST RESULTS**

by

Robert E. Johnson  
Jeffrey E. Beach

THE ALUMINUM SHIP EVALUATION MODEL (ASEM) STATIC TEST RESULTS

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STRUCTURES DEPARTMENT  
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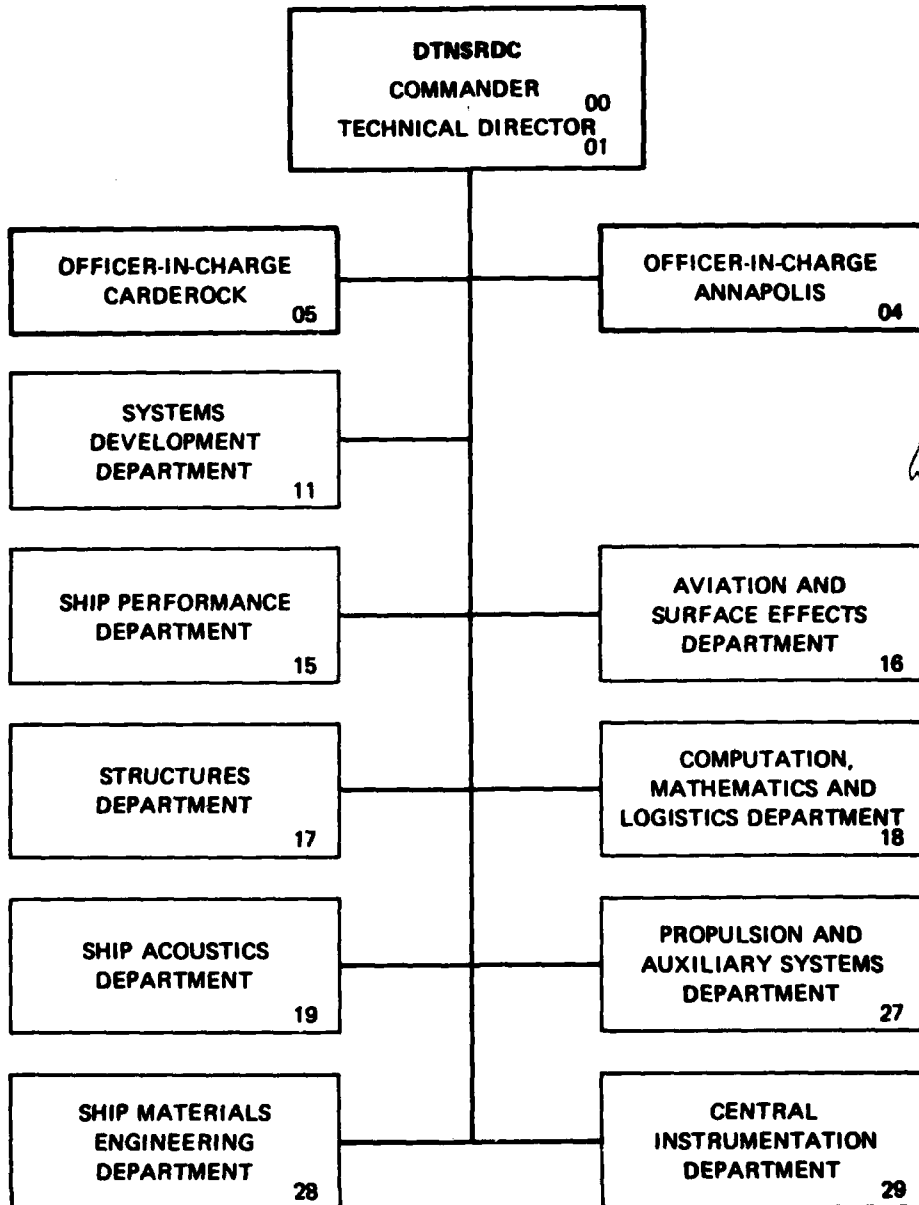
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## ABSTRACT

The results of selected static structural tests of the Aluminum Ship Evaluation Model are presented. The data are documented in tables and figures. Background history, preliminary preparation, and significant accomplishments leading up to and during the static tests are included.

## ADMINISTRATIVE INFORMATION

The work described herein was performed by the Ship Structures Division, Code 1730, of the Structures Department, of the David W. Taylor Naval Ship Research and Development Center (DTNSRDC). It was sponsored by the Naval Sea System Command (NAVSEA 05R) as part of the Structures Subproject SF43422 of the Ships, Subs, and Boats Exploratory Development Program Element (62543N). This document fulfills FY83 Milestone No. R10 of Goal and Objective No. 150-200. Overall program management was provided by J. E. Gagorik, NAVSEA 05R26.

## INTRODUCTION

With the anticipation of increased use of aluminum in ship structures and an introduction of new ship hull configurations, a need was realized to study the performance of large scale complex structures under realistic controlled load conditions. This need included the validation of structural performance through large scale structural testing, the application of life cycle experimental techniques for naval ships, and the development of a validated technology base of aluminum-hulled, ocean-going ships. To achieve these goals, an all-aluminum ship model was fabricated, and an extensive large scale evaluation program was initiated in the early 1970's. This is the only time the Navy had the benefit of testing a large scale model of a surface ship structure. This method of testing is not unique, since the approach is frequently used by the aerospace industry with considerable confidence and success.

In order to fulfill the primary objective of large scale validation, a number of areas were addressed: (1) a method of applying loads to a large scale model and of obtaining stresses in the structure similar to those in a full size ship at sea; (2) a method to determine the instrumentation required to monitor primary, secondary, and tertiary stresses; (3) simulation of service loads and the effect of the



simulation on the test results; and (4) automatic control of the load, as well as a means of monitoring strains during testing.

A number of supporting technologies were used during the large-scale validation program. Analytical methods such as finite element analysis, rigid vinyl modeling, and crack-growth analysis are three examples. As shown later, comparing the results from these analytical techniques to large scale test results helps verify those methods.

Three major needs existed at the time for obtaining an aluminum technology base for U.S. Naval applications. First, there was a substantial lack of service experience for large aluminum-hulled ocean-going ships. Second, there was a definite interest, at that time, in advanced Navy vehicles (high performance ships) such as planing craft, hydrofoil craft, hover craft, and surface effect ships. In order for this type of ship to successfully perform its mission, it must have light-weight systems. Since one-third to one-half of the ship's weight is in the structural system, the selection of a high-strength, low-weight hull material such as aluminum was reasonable. The third and final reason was the Navy's potential interest in a fast, aluminum destroyer escort (DE) in the 2000-ton, 300-ft size range. This interest was based on an economic advantage of aluminum over steel for life-cycle costs of ships in this size and performance range.

For these reasons (large scale validation and aluminum technology base), an all-aluminum, 85-ft-long model of a destroyer escort was designed and built to be both statically and cyclically tested.<sup>1\*</sup> This Aluminum Ship Evaluation Model (ASEM) was originally designed as a 300-ft, 2200-ton all aluminum DE with integral, load-bearing superstructure. Figure 1 shows a profile view of the original design. The 300-ft size was scaled down to one-third size, resulting in a 100-ft long structural scale model, which was further reduced by eliminating 15 ft of nonstructural bow section. For economy, the 03 deck was also eliminated. Figure 2 shows a view of the model prior to load frame installation.

After preliminary design by NAVSEA design personnel, and detail design at Hunters Point Naval Ship Yard, construction began in 1974 by Tacoma Boatbuilding Co., Inc. The model was eventually shipped to the Structural Evaluation Laboratory at

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\*A complete listing of references is given on page 19.

DTNSRDC for load frame installation, receipt inspection,\* and instrumentation.\*\* All of these were required before testing could start. The planned testing included static tests under various combinations of loads to determine basic load, stress, and deflection behavior; and cyclic testing to determine long-term fatigue behavior.

Static testing began in early 1977 and continued for the remainder of the year. It wasn't until 1979 that cyclic testing was initiated. Testing was completed in November of 1981 after one million load cycles had been applied to the model.

Much time and effort had been expended throughout the duration of the project. It is not the intent of this report to go into the details of all aspects of the ten year project. (Appendix A shows the chronology of ASEM major events up to static test completion.) Rather, the report summarizes the results of static test and strain data analyses. In addition, the "lessons learned" during the test process are highlighted.

Subsequent comprehensive reports will cover material characteristics,<sup>2</sup> structural design,<sup>3</sup> aluminum ship fabrication,<sup>4</sup> and maintenance and repair.<sup>5</sup>

#### STATIC TEST PROCEDURE

After several years of test preparation, the ASEM static testing began in March 1977 and was completed by December 1978. Testing was in three parts: (1) vertical bending, (2) lateral bending, and (3) combined vertical and lateral bending. The bending moments were applied through 13 load frames along the length of the model. Two load frames, one at Bulkhead 24 and the other at Bulkhead 86, were fixed in space and the remaining 11 load frames were movable (allowed to displace with load). Two double pin joints were used in the connection of the frame, load cells, and hydraulic actuators, thus permitting rotation about three axes. Figure 3 is a typical load-frame configuration. At each load frame, one starboard hydraulic actuator or jack and one or two keel jacks (coupled with closed-loop, feedback system load cells) were used for load application. Table 1 lists the load cell's channel numbers and their location on the model.

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\*Johnson, R.E., "The Aluminum Ship Evaluation Model (ASEM) Receipt Inspection," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-22 (15 Feb 1980).

\*\*Johnson, R.E., "The Aluminum Ship Evaluation Model (ASEM) Instrumentation," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

The movable frames mentioned earlier were made up of 2, 3, or 4 semirigid parts depending on the frame location. The frames were held to the ASEM hull by the clamping action of the bolted-together parts against rubber strips that were glued to the hull and deck plating. In addition, small aluminum blocks with steel rollers installed were welded to the hull to prevent fore-and-aft motion of the load frames relative to the model. A pad pressure of approximately 5 psi was developed in the rubber due to the clamping action of the frame. The actual configuration of the rubber padding evolved through a lengthy analytical and experimental process which was aimed at keeping tertiary stresses in the stringers and plating below about 4 ksi under maximum load. The final pad configuration used is shown in Figure 4. The rubber strips were glued to the plating directly outside of the bulkhead plating and longitudinal stringers. These external locations were determined by visually locating plate distortion due to the internal fillet welds. The visual method of locating bulkhead plating centerlines can have an error up to 1/16-in. but is as accurate as other methods, such as ultrasonics.

The static loads were applied in an incremental fashion from 0 up to 80% of maximum positive load ( $+0.8 P_{max}$ ) in  $0.1 P_{max}$  increments, back to 0 in  $0.1 P_{max}$  increments, to  $-0.8 P_{max}$  in  $0.1 P_{max}$  increments, and back to 0 in  $0.1 P_{max}$  increments. This gave a total of 38 load levels for each test part, including the initial zero, final zero, system lock and unlock, and lateral offset.

Each test was performed enough times to establish repeatable linear strain response with load. A complete listing of the static tests is given in Table 2. During each static test, 1800 strain channels were recorded at each of the 38 load levels. An instrumentation limitation existed such that only 600 channels could be monitored at any one time. This required switching three banks at each load level to obtain the strain readings. The linearity in load versus strain response and, thus, the basic stress sensitivities (numbers of pounds per square inch per unit load application) were required for the cyclic testing. Next, 600 channels of the 1800 channels recorded during the static test were chosen for the cyclic test. These 600 channels were comprised of crack gages, gages reading high strains due to geometric discontinuities, and gages in the 3/5-length region that would accurately define the combined vertical and lateral midship bending moment as a function of time. More details are provided in a report<sup>6</sup> on the cyclic test results.

After the repeatability between like test conditions was established, one complete set of data from each of the four test conditions (vertical, lateral, 60° combined, and 240° combined) was further analyzed for statistical information (Table 3). Tables describing these data analyses are found in Appendix B; associated strain data plots are found in Appendix C. Vertical-bending response slope, lateral-bending response slope, correlation coefficient, standard deviation, and predicted minimum and maximum strains were calculated for each gage for each test condition. A comparison was also made between bending response slopes for various tests, and the most repeatable gages were identified for the cyclic test.

#### STATIC TEST LOADING

The incremental loading magnitudes used in the static tests were directly related to those of the cyclic test. In order to better understand how these were determined, a brief explanation of the load spectra is warranted.

The development of a design load spectrum relied on factors which influence a ship response in a seaway. A ship's characteristics determine how that ship will perform for operating and wave environment conditions as defined by the ship's mission. Prediction of ship structural performance under lifetime loading is based primarily on the results of full scale trials on similar ships and related model tests.

The basic spectra to be used for the design of a 300-ft aluminum ship were developed in Reference 7. The spectra are for vertical and lateral (or athwartship) bending moments (BM) defined amidships. The vertical spectrum combines the ordinary wave (OW) or low frequency hog-sag (H-S) BM cycles shown in Figure 5 with the vertical dynamic or whipping BM cycles from Figure 6. Reference 7 discusses the method of combining the high frequency whipping cycles with the OW cycles to develop the vertical lifetime spectrum (Figure 7).

The basic vertical spectrum, in terms of H-S vertical bending moment, is listed in Table 4 as determined from Figure 7. A cycle consists of zero (0) to H (hog) (or S (sag)), through 0 to S (or H), and back to 0. As discussed in Reference 7, the whipping cycles are superimposed onto the OW cycles but only add a significant number of cycles to the high load end of the spectrum. The superimposed whipping

causes the H-S moments at the high end of the curve to be unsymmetrical about zero or stillwater. The basic vertical spectrum was truncated at a BM of  $3.75 \times 10^3$  ft-tons (1 ton=2240 lb/ft) based on results of fatigue crack growth sensitivity studies.\* A total of  $24.8 \times 10^6$  cycles represents the total cycles for a ship lifetime of 20 years, seven of which are active at sea.

The maximum BM shown in Figure 7 is  $80 \times 10^3$  ft-tons corresponding to the highest ( $10^\circ$  or 1 time) response to waves. The maximum BM for the model is obtained when that value is multiplied by the cube of the model scale. The ASEM bending moment for static testing is simulated by applying test loads as shown in Figure 8. The calculated loads at each hydraulic actuator to be transmitted to the model during each load level are given in Appendix D for the four types of tests completed.

A lateral moment cycle is associated with each vertical moment cycle. Therefore, the number of vertical and lateral cycles are the same. The lateral BM spectrum is assumed to be the same as the vertical, except the maximum lateral BM,  $40 \times 10^3$  ft-tons, is but one-half of the maximum vertical BM.<sup>7</sup> This is a conservative assumption. Half of the lateral cycles lag the vertical by  $60^\circ$  and the other half lag by  $240^\circ$ . This is so because half the time one side of the ship is assumed to be the weather side and the other the leeward side.

As discussed in Reference 7, the BM spectra, vertical and lateral, are not exactly symmetrical. For most load levels the effect of this mean level is insignificant on structural life. Levels at and above the 90% load level are exceptions to this. The maximum whipping for these conditions combine with the OW bending moment such that the distribution of combined BM is 60% sag and 40% hog.

#### INSTRUMENTATION

A total of 1800 foil-type strain gages were installed on the ASEM for measuring applied strains (stresses were evaluated from these measured strains) and 28 linear potentiometers were installed for measuring deflections. Details of the strain and deflection measurements are discussed later. The purposes of the strain gage instrumentation were:

1. To measure stress distributions throughout the hull and superstructure to verify analysis and determine stress gradients.

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\*Marchica, N. V. and F. F. Borriello, "Fatigue Load Spectrum for the Aluminum Ship Evaluation Mode," Technical Memorandum TM 76-173-25 (Dec 1976).

2. To measure stresses arising from the simulation of loads.
3. To measure local stress concentrations for input to fatigue and crack growth analyses.

To meet these objectives the following analytical and experimental procedures were used for determining strain gage locations:

1. Reproduction of all strain gage locations used for the static evaluation of a rigid vinyl model (RVM) of the ASEM shown in Figure 9. (The ASEM RVM resulted from the modification of an existing RVM of a planing craft with identical hull form. The main deck and deckhouse of the RVM planing craft were replaced with a scaled version of the ASEM structure.)\*

2. Extension of longitudinal and transverse gage locations from item 1 above to more accurately predict the longitudinal and transverse stress distributions.

3. Location of stress concentrations based on engineering judgment for areas of expected maximum stress.

4. Utilization of the NASTRAN finite element model (FEM) output to supplement items 2 and 3 above. A discussion of this model is found in the next section.

Appendix E contains details of the strain gage specifications as well as location nomenclature used to locate gages on the model.

Data recording capability was provided by a Xerox 550 computer. Signal conditioning and calibration for each strain gage channel was included in the software of the computer and separate calibration and conditioning was not required. As mentioned earlier, 600 channels were read by the computer at a given time. This meant that, to record the 1800 channels used for the static test, switching was required twice during the test. Each channel was sampled many times per second, an average was calculated and recorded. Recorded data were stored on magnetic tape for subsequent on-line or remote processing.

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\*Rodd, James L.; Ford, Harry M.; Johnson, Robert E.; "Rigid Vinyl Model Development of Structural Modifications for the Aluminum Ship Evaluation Model (ASEM)," DTNSRDC Technical Memorandum TM 80-173-1 (Sep 1980).

### FINITE ELEMENT ANALYSIS

An elaborate NASTRAN finite element model (FEM) was made of the ASEM (see Figure 10). It was composed of 6000 elements and 7500 degrees of freedom. Because of the great expense involved in running an extensive finite element model, structural symmetry was utilized wherever possible. For simplicity, the stiffeners were "smeared" into the plate elements. The loads for the FEM were applied at grid points which were located along the frames where the actual loads were applied to the ASEM. The hatch openings were not extensively broken up into small elements describing exact geometry. Three types of loading conditions were applied to the FEM of the ASEM: vertical hogging loads (Force 1), vertical sagging loads (Force 2), and lateral loads (Force 3). As might be expected, a large amount of data was produced. Throughout this report, stress values obtained from the FEM analysis supplement many of the figures showing stress plots.

Several generalized findings can be gleaned from examination of the data obtained from Force 1 loading (corresponding to 80 percent BM loads):

1. Between Bulkheads 32 and 48, the main deck exhibits moderate stresses (6 ksi tension) due to longitudinal bending.
2. Between Bulkheads 48 and 64, the 01 level longitudinal bending stresses reach 9.3 ksi tension.
3. Between Bulkheads 40 and 64, the stresses near the gunwale approach 5.6 ksi tension, and the stresses at the main deck centerline approach 5 ksi tension.
4. The maximum stress at the keel was 7.5 ksi compression at Bulkhead 56.
5. Between Bulkheads 16 and 40, the hull above the chine exhibits high shear stresses (5.5 ksi).

### ASEM DEFLECTION

Before the static tests were conducted, linear potentiometers were positioned along the length of the ship corresponding to load cell locations. As the model was vertically and laterally loaded for each test, the resulting displacements were monitored. It was important that the structure on which the potentiometers were attached be rigid relative to the model, and that the potentiometers be firmly attached. If this were not the case, the potentiometers could possibly move and cause erroneous deflection readings. Appendix D contains the deflections obtained from the four static tests on which the data analyses are based.

A ship at sea experiences a hogging (or hog) condition when it is positioned on the crest of a wave at midships, thereby causing the forward and aft ends of the ship to displace downward. A sag condition results when the ends of the ship are on the crests of two successive waves, and midships is at the trough. For the ASEM, a vertical hog condition was achieved when the hydraulic actuators near midships were extended. Since the lateral jacks were positioned on the starboard side of the model, a lateral hog condition resulted when the jacks at midships were extended thus causing midships to move to port.

Plots of the model displacements at maximum static test load (80%) for Tests 1, 3, and 4 are shown in Figures 11, 12, and 13, respectively. At the midship keel (near Bulkhead 56) the maximum hog to maximum sag displacement was approximately 1.5 in. Test 2 was the lateral loading test. As seen in Figure 14, at midships (near Bulkhead 56) the displacement from maximum lateral hog to maximum lateral sag was approximately 1 in.

#### HULL-DECKHOUSE INTERACTION

Normally, a ship is designed based on only the hull longitudinal structure (shell plating, decks, longitudinal bulkheads, etc.) resisting the loads created by the sea environment. Actually, however, the deckhouse may act as an integral part of the hull in resisting these loads. Depending on the size of the deckhouse and the way it is attached to the hull, the loads or stresses in the deckhouse may be substantial. A long deckhouse of one level with no expansion joint will result in large stresses both on the upper deck and house side.<sup>8</sup> As expansion joints are added to the deckhouse, the magnitude of stresses in the deckhouse will generally decrease. Stress levels in the section near midships will remain about the same. Indeed, deckhouses may be fully or partially effective in resisting bending loads. This reality is becoming more apparent to the Navy as ship classes such as FFG-7 and DD-963 with continuous aluminum deckhouses become older and experience cracking problems due to primary bending loads absorbed by the house.

In the case of the ASEM, the hull and deckhouse were fabricated separately. They were then shipped to the test facility where the deckhouse was welded to the hull. Also, two 3/16-in. thick, 4-in. wide flat bars were welded to the upper surface of the main deck at Bulkheads 32 and 92 (front and rear of the deckhouse).



These flat bars were attached to the deck by fillet welds at both the forward and aft ends (one bar on each end of the deckhouse) (see Figure 15). The attachment locations of these bars were determined by the length dimension of the deckhouse. The distance between Bulkheads 32 and 92 above the main deck was approximately 4-in. greater than the distance between the bulkheads below the main deck. Therefore, the forward-most and aft-most bulkheads that were above the main deck did not exactly line up with those below deck. Also, this type of offset was true for a number of other deckhouse bulkheads. Table 5 summarizes the bulkhead misalignment. Note that the greatest misalignment was at Bulkheads 32, 86, and 92. This was a concern mainly because the model was loaded through the bulkheads. However, as it turned out, this offset did not appear to create any local structural problems such as buckling.

The joint details between the main deck and the bulkheads interior to the deckhouse were somewhat different than those at the front and aft ends of the deckhouse (see Figure 16). The bulkhead plates were fillet welded forward and aft to the upper surface of the main deck where they landed. A 3/16-in.-thick gap was left between the main deck and bulkhead stiffeners (the stiffeners were on either the forward or aft side of the bulkhead). A 3/16-in. thick, 2-in. wide flat bar was then positioned between the stiffeners and deck. The stiffeners were welded to the flat bar and the flat bar was fillet welded to the deck at the accessible edge. Based on inspection of test results, this type of detail proved adequate during testing.

The following section contains a detailed explanation of the hull deckhouse interaction and subsequent high strains.

#### FASHION PLATES AND ACCESS HATCH OPENINGS

High stresses at the forward and aft ends of the deckhouse and discontinuities near midships can eventually cause fatigue problems. These areas of concern are shown in Figure 17 as A, B, and C (port and starboard). Also, high stresses at access hatch openings are of concern.

The discontinuity at Location A creates high shear forces at the forward end of the deckhouse, and acts as a stress raiser for the local deckhouse structure. In the case of the ASEM, the integral hull-deckhouse increases the effective moment

of inertia of the hull. Stresses on the order of 15 to 20 ksi for the 80% maximum BM condition were monitored during the static (precyclic) tests. This area as well as other highly stressed areas in the deckhouse were of major concern. It was felt that the high stresses in the as-fabricated structure would eventually cause premature cracking. In April 1977, the decision was made to initiate an extensive study of the stress areas of concern by use of a rigid vinyl (PVC) model of the ASEM. Details of the results of these tests were reported informally.\* Basically, a number of structural modifications were made to reduce strains in the PVC model such that similar modifications to the aluminum model would do the same. Table 6 summarizes the PVC test results for a number of stress areas of concern as well as for the eventual ASEM structural modifications. For the most part, side shell doublers and coaming doublers were used at the hatches. Port and starboard fashion plates were used at the intersection of Bulkhead 32 with the main deck, and at the intersection of Bulkhead 56 with the 01 deck. The fatigue performance of these structural modifications are covered in a report<sup>6</sup> on the ASEM cyclic test results.

Most of the access hatch openings in the deckhouse sides were strain gaged to monitor any unusually high strains during the static tests. Since high strains were recorded in some instances, the possibility of premature fatigue failures during the cyclic testing existed. As mentioned earlier, the reduction of strains in the rigid vinyl model hatch opening were examined, with the result that structural modifications to the ASEM were recommended. The locations of the deckhouse side hatch openings are shown in Figure 18. A typical hatch opening is shown in Figure 19.

The decision was made to increase the thickness of the plate material immediately adjacent to the hatch coaming. A doubler plate (equal in thickness to the deckhouse side plating) was plug welded to the existing plate along the stiffeners, as well as fillet welded at the edges of the new doubler plate. The edges were located at the adjacent frame or bulkhead and at the main deck and 01 deck level. The coaming thickness was increased (doubled) by welding an additional coaming of the same thickness and width to the existing coaming. The resulting structural modification to the hatch openings are shown in Figure 20.

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\*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modifications for the Aluminum Ship Evaluation Model (ASEM)," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

The average stress reading associated with a hatch coaming gage was over 10 ksi; indeed, one reading was as high as 15 ksi. Static tests run after the modifications of adding a doubler plate and coaming doubler indicated lower strains at similar locations. This would certainly indicate that the problem of premature fatigue cracking would be alleviated. The behavior of this type of "fix" relative to fatigue is discussed in another report.<sup>6</sup>

In addition to high strains (stresses) at the coamings, the plating adjacent to the coaming also had high strain readings. These areas were not extensively regaged after the doubler plate additions; however, those that were gaged showed a substantial reduction in stress. In an actual design, implementing a fix such as the one completed with the coaming would probably be necessary. However, instead of welding two pieces of coaming together to obtain a certain thickness, a single piece of the desired thickness should be used.

#### STRAIGHTNESS OF BULKHEAD STIFFENER FLANGES BETWEEN MAIN DECK AND O1 DECK

Since the model was loaded through its bulkheads, the straightness of the bulkhead stiffeners were of concern. Excessive stiffener warpage might have resulted in local or total buckling of the bulkheads during testing. Therefore, a survey of the degree of warpage of the stiffeners relative to vertical was conducted (Table 7). Bulkheads 32, 40, 48, and 80 had the least average warpage of the stiffener flanges, and it was all in the forward direction. Bulkheads 56, 64, 86, and 92 had the greatest average stiffener flange warpage, and here it was all in the aft direction. One stiffener flange on Bulkhead 92 was warped as much as 0.75 in. Additional information can be found in a report<sup>9</sup> on stiffener and bulkhead deformation surveyed during the cyclic testing of the model.

#### SPECIAL CONSIDERATION FOR ASEM STATIC TESTING

With a test of this physical size and complexity, not all problems could be foreseen. In most instances, with careful thought, potential problems can be averted by modifications to the test fixture, test procedure, or model. When possible, these modifications or changes should be done in such a way as to not adversely

effect the test results. A number of "lessons learned" by the authors relative to how this information can benefit future tests of a similar nature are highlighted next.

#### COUPLING OF LOAD FRAMES/STRUCTURALLY REINFORCING LOAD FRAME

Originally, the test fixture was designed so that a number of load frames were longitudinally coupled together at the centerline (load frames at Bulkheads 64, 72, and 80). However, this meant that if one of the load frames became displaced fore or aft from the desired plane of loading, the remaining attached load frames would also displace. Lateral buckling of the originally designed load frame couplings caused this kind of problem. The solution was to not have the load frames coupled, and to strengthen the lower section of the load frame by welding steel plates between the edges of the flanges. Thus, the I-Beam effectively became a box beam, thereby inhibiting lateral buckling or tripping of that portion of the load frame.

#### REDESIGN, FABRICATION, AND FOAM REINFORCEMENT OF PARTIAL BULKHEAD 72

The "as built" frame at Bulkhead 72 was not constructed to carry the 95,000-lb load needed to insure the proper BM through the model during testing. The area between Bulkheads 64 and 80 was designated for the engine room and, therefore, this area was initially open. If the space was to remain as built, the load applied would then buckle and collapse the frame. Therefore, a redesign was required. Because of the restraints imposed by the access to the model, the design took the form of truss-type framework (Figure 21). The redesign was constrained in the sizing of members by (1) the openings built into the model to supply materials into compartments and (2) by allowing the members to carry a maximum of only 6 ksi of stress.

A frame analysis using the computer program STRESS<sup>10</sup> was used in the design of the "framed bulkhead." A final design was determined and construction started in December 1976. Figure 21 shows the framework used in the ASEM at Bulkhead 72, both as originally built and as a redesign.

An additional problem recognized was that the floor at Frame 72 had no access to it, except for two 6-in.-diameter holes, and thus it could not be stiffened by welding on stiffeners. The floor was made of 1/8-in. plate and, unless it was stiffened, it would have buckled under the applied loads.

One solution to this problem was to use syntactic foam and fill the compartments under the innerbottom on both sides of Frame 72 (between Frames 69 1/2 and Frame 74 2/3) as shown in Figure 22. This foam was chosen for its light weight, ease of installation, and ability to sustain compressive loads. A full size wooden model was constructed to evaluate the procedure to fill the compartments with the foam and to determine the temperature produced by the foam as it cured. It was necessary to know the temperature because aluminum can become sensitized above 200°F and is then susceptible to stress corrosion cracking. Thermocouples attached to strip recorders were used to determine the curing temperature and to evaluate the filling procedure. Plexiglas was used on one side to act as a floor.

There were two tests. The first was to fill one side with the syntactic foam, and to pour the necessary resin all in one pour. The temperature given off during this test was approximately 206°F, which was unacceptable.

The second test was similar to the first except that the resin was poured in increments of 5 gallons per day. Three days were necessary to complete the procedure, and four pours were required to fill a compartment on either side of the bulkhead and port or starboard of the Center Vertical Keel (CVK). The maximum temperature was approximately 130°F. Although this temperature was acceptable, there was doubt as to whether a good bond had been made between the different pours. Also, there was a residual film of resin on the upper walls after the resin had settled to the bottom. A line of air pockets could be seen through the plexiglas floor where the different pours had settled.

Therefore, the procedure in the aluminum model was to pour two compartments (which were diagonal to each other) at a time. The resin was to be poured in the hole nearest to the keel. Thermocouples were placed in the compartments filled on the first day. The temperature recorded was below 100°F, which was an acceptable temperature.

Because the foam was poured into the center section, the resin tended to gel before it could spread outward to the outboard section. An attempt was made to fill the outboard sections by pouring resin in the outboard holes. It seems that little resin went into these confined areas and a possibility exists that the floor at Frame 72 may have been unsupported on the outboard edges. This was not a problem, however, since the unsupported depth of floor plating at the sidshell attachments was small enough to insure that no structural damage was sustained during either the static or cyclic tests.

#### CONCLUSIONS

The initiation, execution, and completion of all research associated with the Aluminum Ship Evaluation Model program has marked a significant milestone in ship structural research. This has been the first and only time that the Navy has had the combined resources for performing extremely large, complex, and controlled laboratory experiments on complete ship structures. Many new technologies were explored and many lessons learned. The proven capability now exists, in terms of facilities, software, hardware, and experienced personnel, to perform future tests of this nature for purposes of specific design validation efforts or advanced development. Future tests should be able to be performed using less time and resources due to the significant experience gained through these ASEM tests.

Specific detailed conclusions regarding the ability of aluminum to perform as a hull material cannot be made in a total sense without examining the results of the cyclic test. From a static standpoint, the aluminum-hull-girder (ASEM) behaved in accordance with beam theory and remained linear throughout the range of loads and stresses applied. Therefore, from this test it can be concluded that aluminum is an acceptable material for hull girders, from a quasi-static load viewpoint, when designed to maximum stress values consistent with those applied to the ASEM. Additional conclusions regarding specific geometric behavior will be left to the reader. This is done to allow the reader to use the vast amount of data presented herein to draw specific conclusions which concern his detailed problem. A summary of the major, more general conclusions follows.

#### LOADING METHOD

The method used in applying loads to the ASEM is unique in large scale testing. Normally, in the aircraft industry large-scale static tests are performed with distributive pads or bladder loading, and cyclic tests are performed with "wiffle-tree" arrangements. These methods were not feasible for the ASEM tests and, consequently, the load-frame or load-ring arrangement was developed. In spite of some initial problems, this loading method proved very successful. Lateral instability of loading-frame lower-transverse members was easily corrected by making the I-beams into closed cells and this problem could have been avoided if all out-of-plane deflections had initially been considered. Fore-and-aft restraint of the load frames relative to the model was required to maintain their alignment and stability. This became even more apparent the longer the testing progressed, due to rubber-pad aging and creep. Tying the frames to each other proved unsuccessful; however, attaching small local restraints to the hull allowing them to provide unattached stops to the load frames proved very successful. The method of loading through rubber pads into the bulkheads worked well.

#### COMPUTER CONTROLS AND SAFEGUARDS

For the most part, these systems also worked well. Initial problems in debugging a new system were technically overcome. Desired loads were achieved within a few percent. Computerized data acquisition and analysis performed well, although long term stability and system noise did present problems. The development of more sophisticated software and hardware as the test program continued, essentially resolved all earlier problems.

#### DECKHOUSE BEHAVIOR

A long continuous deckhouse, like the one on the ASEM, is very effective in absorbing primary hull-girder bending loads. This can be beneficial in that it reduces primary hull stresses; however, significant primary stresses are then absorbed by the house. This in itself is not necessarily a problem if the deckhouse is properly designed to withstand those stresses. The ASEM deckhouse, on the other hand, was not properly designed to withstand the magnitude of primary stress that it eventually experienced.

The deckhouse was designed using conventional Navy practice, which, up to the time of the ASEM design, had proven acceptable. At that time, little or no experience existed with long, continuous, integral deckhouses. Structural discontinuities, terminations, transitions, and conventional structural details as originally designed in the ASEM deckhouse proved inadequate. Smaller scale modeling and analysis resulted in structural changes such as fashion plates, inserts, and extended coamings which did significantly reduce high stresses when applied to the ASEM. Many of these changes would not be considered "conventional" Navy practice.

#### ANALYTICAL AND SMALL MODELING STRAIN PREDICTIONS

A comparison between measured strains on the ASEM, the RVM, and predicted values from the finite element model shows generally excellent agreement. In an overall sense, the behavior of the integral deckhouse can be properly predicted using analytical and small modeling techniques. For local detail stresses at discontinuities and notches, a parallel conclusion cannot be made. The element sizes used for the NASTRAN model and the gage sizes used on the RVM preclude any detail stress comparison. The RVM did, however, more accurately predict stresses in areas of high gradients than did the NASTRAN model used in our analysis.

The extensive amount of data presented in this report can be used for analyzing a large number of related problems. For example, stress gradients around openings and ways of reducing them can be examined utilizing ASEM data. Load/stress sensitivities for many details and local geometries can be examined. Combined stress effects of vertical and lateral bending can also be analyzed. The reader must be careful, however, when using any large-scale test data, to ensure that any local effects due to testing, or anomalies due to load simulation have been taken into account. In the case of the ASEM static tests, these cautions would apply mostly to bulkhead stresses.

#### ACKNOWLEDGMENTS

The authors thank the numerous individuals and organizations that were involved with the ASEM project throughout the years. We would especially like to thank DTNSRDC's Code 1706 for their assistance, and the many test mechanics and Cooperative Education students who have worked on and contributed to this project.



#### REFERENCES

1. Pohler, C.H. et al., "A Technology Base for Aluminum Ship Structures," Naval Engineers Journal, Vol. 91, No. 5, pp. 33-43 (1979).
2. Beach, Jeffrey E. and Robert E. Johnson, "A Guide for the Use of Aluminum Alloys in Naval Ship, Design and Construction, Vol. I. Material Characteristics, Metallurgy and Properties," DTNSRDC Report 83/057 (in preparation).
3. Beach, Jeffrey E., Natale S. Nappi, Sr., and Robert A. Sielski, "A Guide for the Use of Aluminum Alloys in Naval Ship, Design and Construction, Vol. II. Design for Shipbuilding," DTNSRDC Report 83/058 (in preparation).
4. Beach, Jeffrey E., William A. Palko, and Thomas W. Montemarano, "A Guide for the Use of Aluminum Alloys in Naval Ship Design and Construction, Vol. III. Fabrication," DTNSRDC Report 83/059 (in preparation).
5. Beach, Jeffrey E., Robert E. Johnson, and William E. Lukens, "A Guide for the Use of Aluminum Alloys in Naval Ship Design and Construction, Vol. IV. Maintenance and Repair," DTNSRDC Report 83/060 (in preparation).
6. Johnson, R.E. et al., "Aluminum Ship Evaluation Model Cyclic Test Results," (in preparation).
7. Birmingham, J.T. et al., "Development of a Fatigue Lifetime Load Spectrum for a Large-Scale Aluminum Ship Model," ASTM STP 671, pp. 121-143 (1979).
8. Vasta, J., "Lessons Learned from Full-Scale Ship Structural Tests," Society of Naval Architects and Marine Engineers (SNAME) Trans. (1958).
9. Sikora, J.P. and A.D. Swanek, "A Distortion Survey of an Aluminum Ship Model," Proceedings of the 1982 Joint Conference on Experimental Mechanics, Hawaii, pp. 483-487 (1982).
10. Massachusetts Institute of Technology, Department of Civil Engineering, "STRESS: A User's Manual, A Problem-Oriented Computer Language for Structural Engineering," the MIT Press (1964).

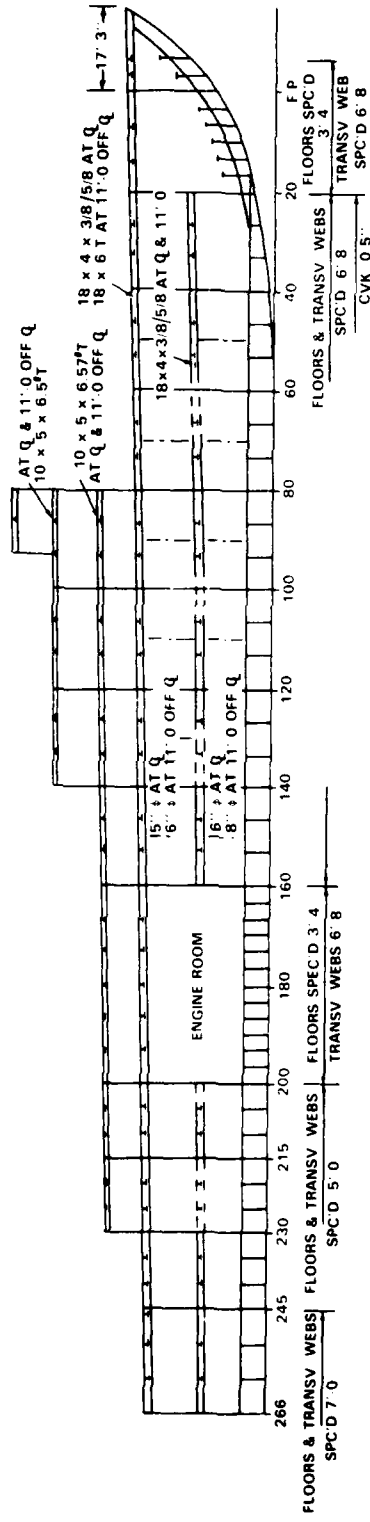


Figure 1 - Profile View of Destroyer Escort Design



Figure 2 - The Aluminum Ship (Yacht for model)

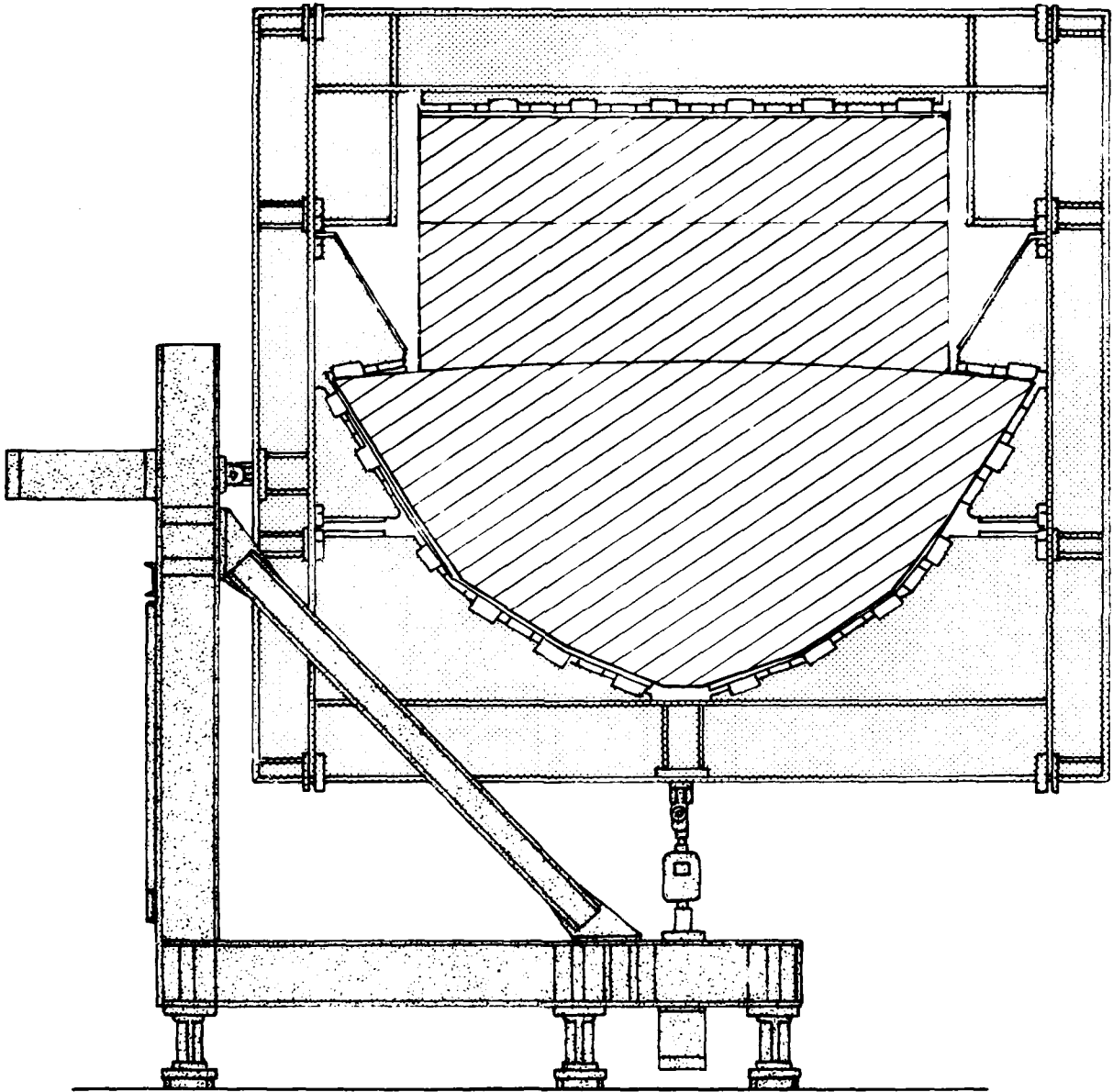


Figure 3 - Typical Load Frame Configuration

DIMENSIONS IN INCHES

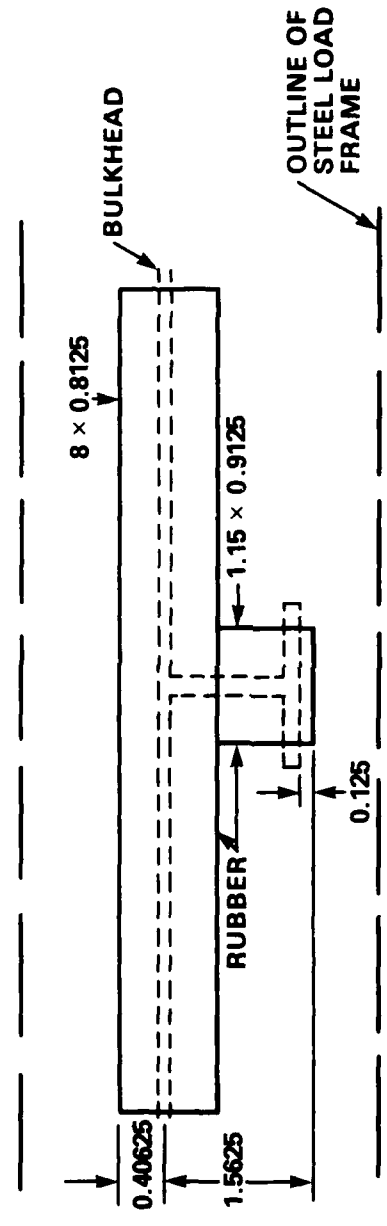


Figure 4 - Load Pad Configuration

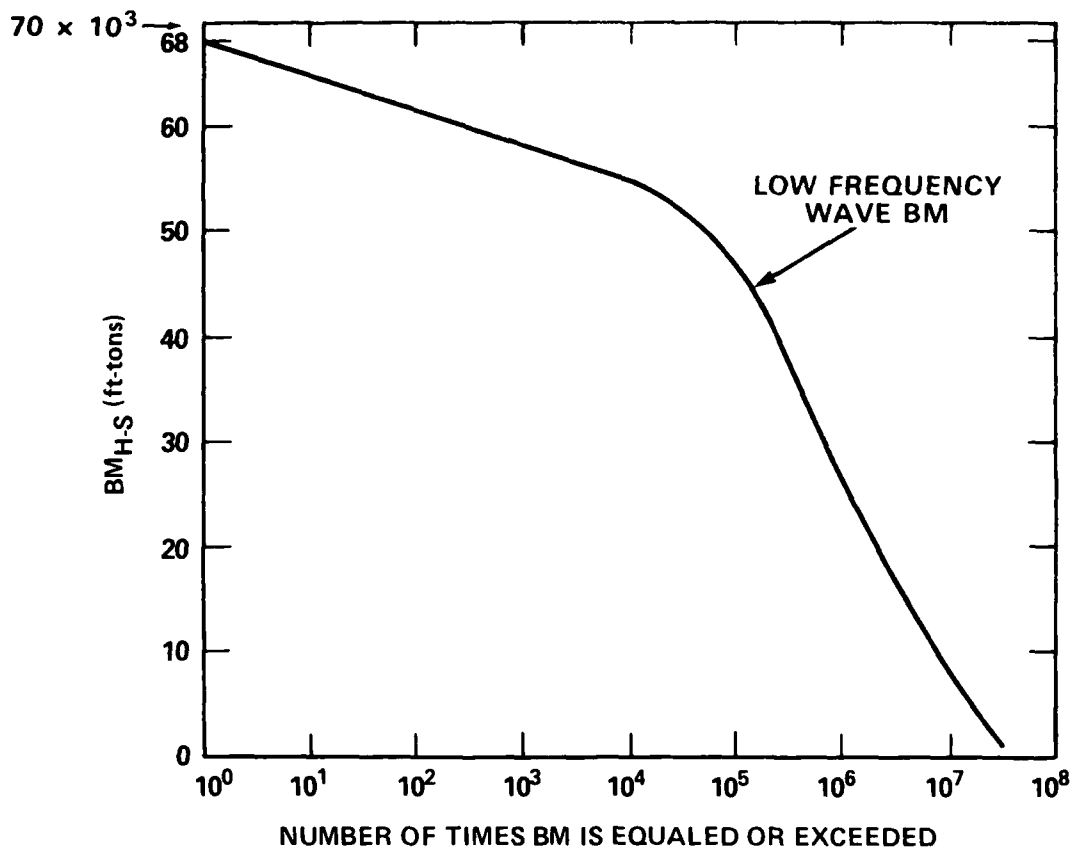


Figure 5 - Lifetime Midship Vertical Wave Bending Moment for a 300-Foot Aluminum Ship

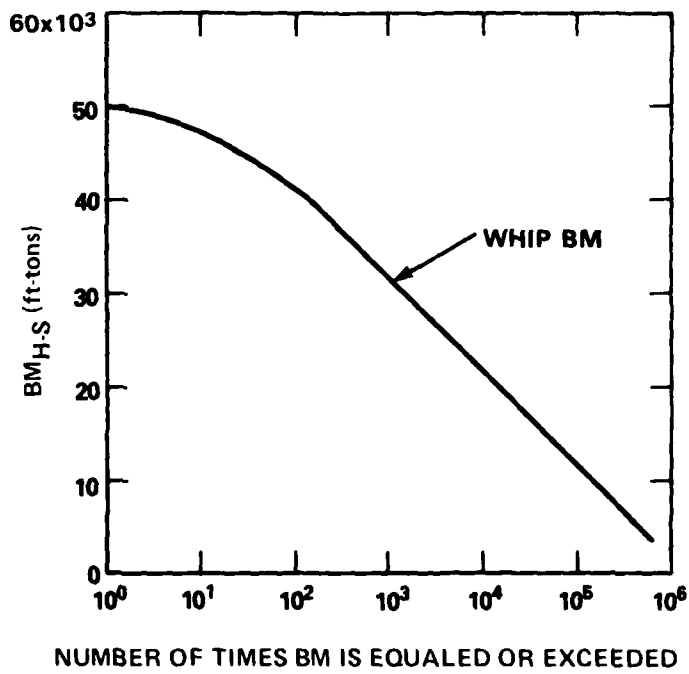


Figure 6 - Lifetime Midship Vertical Whipping Bending Moment for a 300-Foot Aluminum Ship

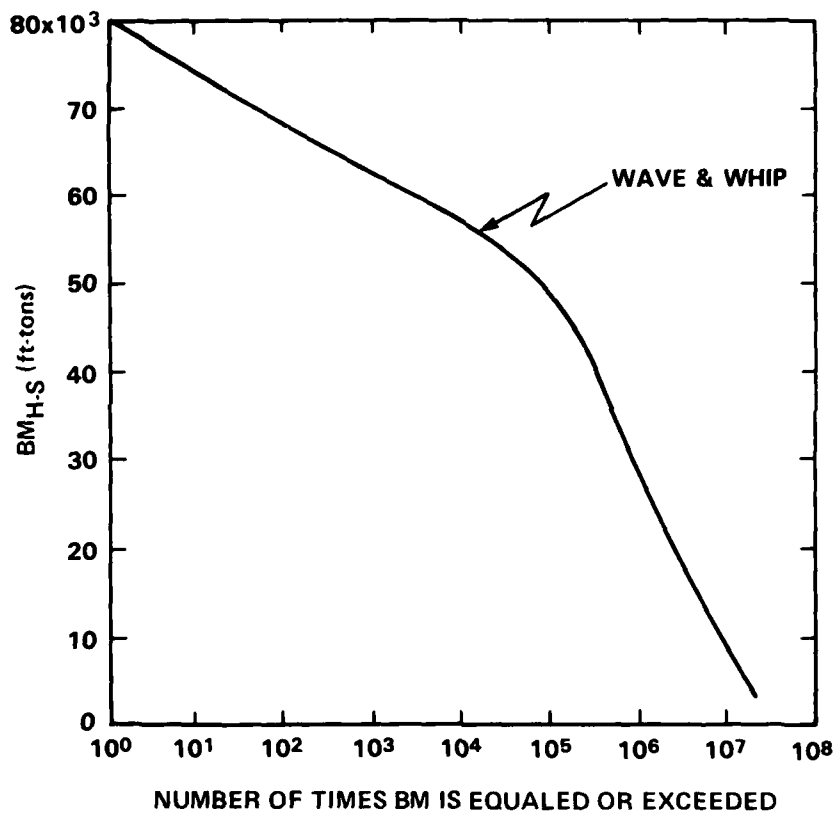
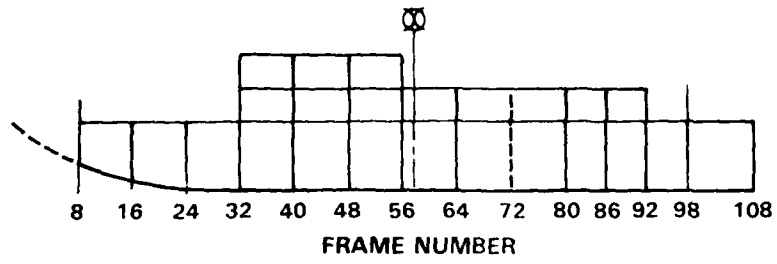


Figure 7 - Lifetime Midship Vertical Wave and Whipping Bending Moment for a 300-Foot Aluminum Ship





0 6.67 13.33 20 26.67 33.33 40 46.67 53.33 60 65 70 75 83.33  
 DISTANCE FROM FRAME 8 OF MODEL (ft)

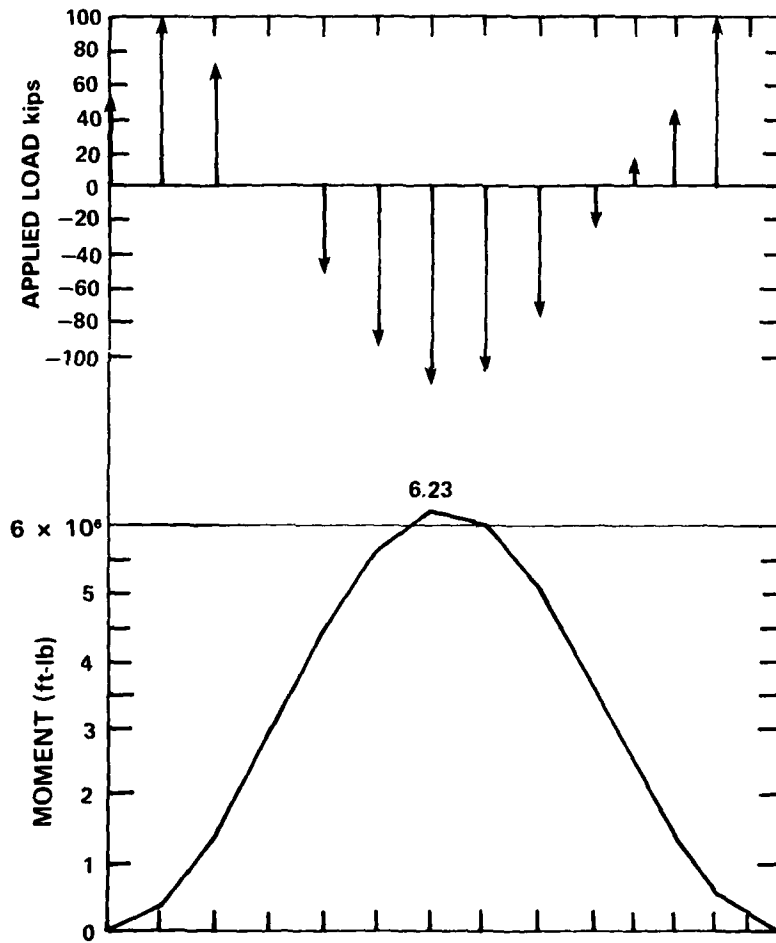


Figure 8 - 100 Percent Sagging Test Loads



Figure 9 - Rigid Vinyl (PVC) Model of ASEM

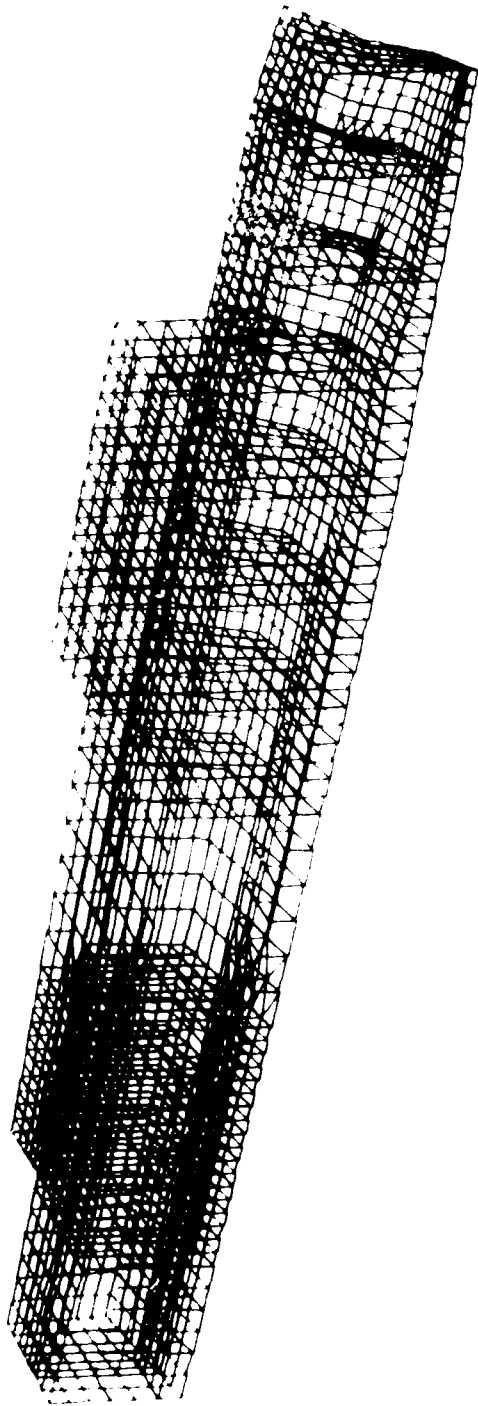


Figure 10 - VASIRV: Finite Element Model of One-Half of ASIRV

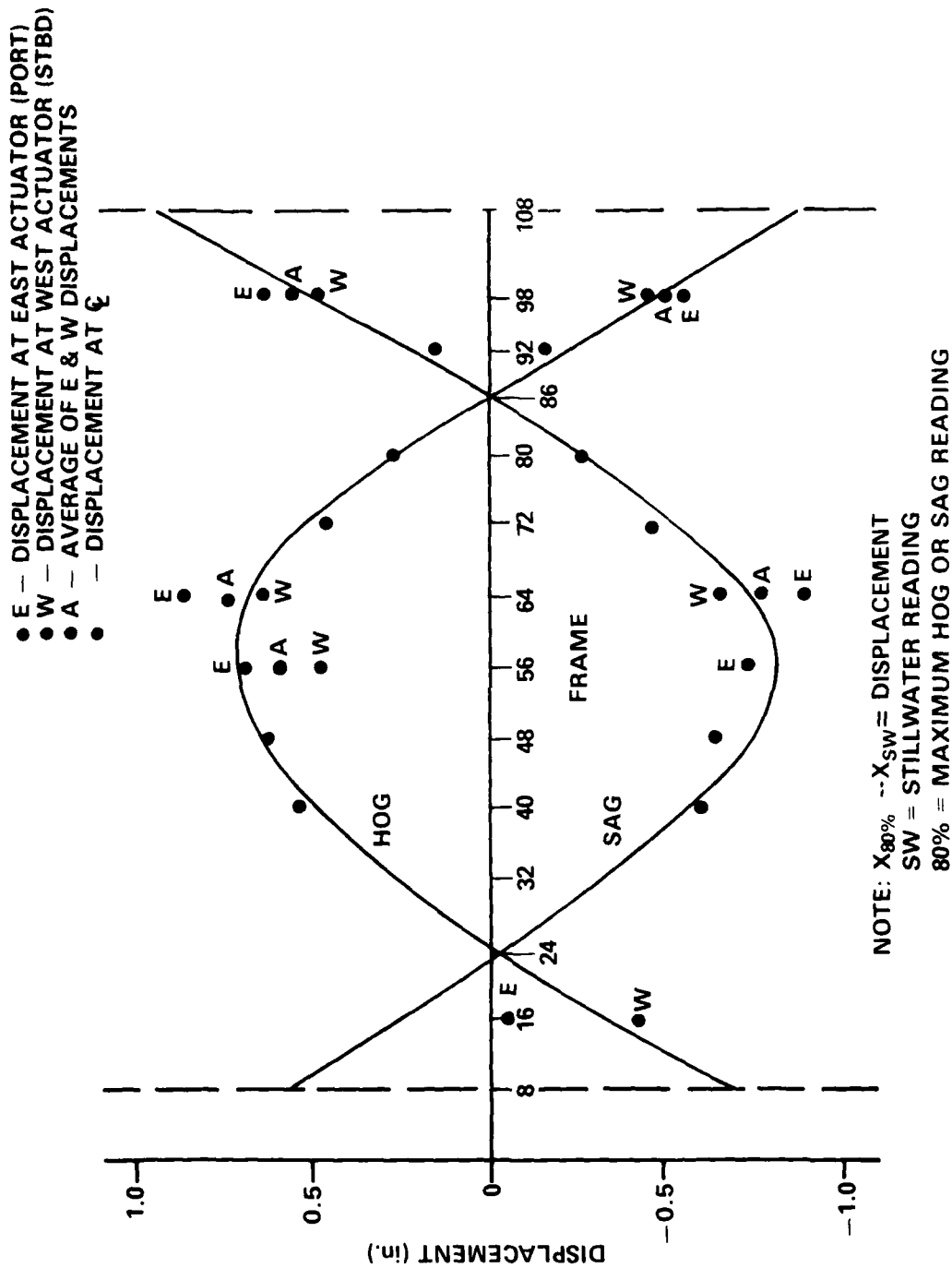


Figure 11 - Keel Vertical Displacement Relative to Stillwater at 80 Percent of Static Test on 9-22-77, with Vertical Loads

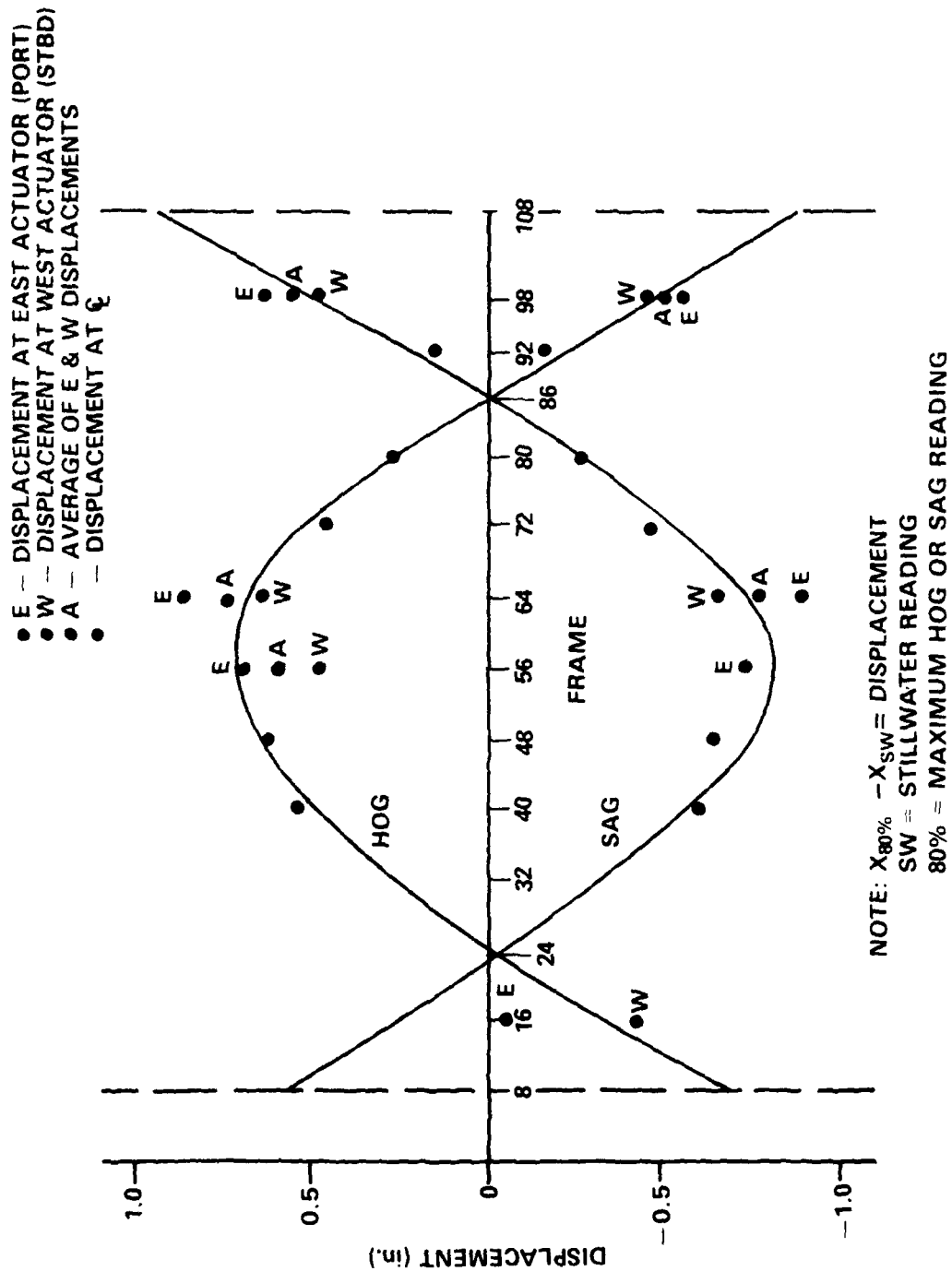


Figure 12 - Keel Vertical Displacement Relative to Stillwater at 80 Percent for Static Test on 10-26-77, Combined 240 Degrees

NOTE:  $X_{80\%}$  -  $X_{SW}$  = DISPLACEMENT  
 SW = STILLWATER READING  
 80% = MAXIMUM HOG OR SAG READING

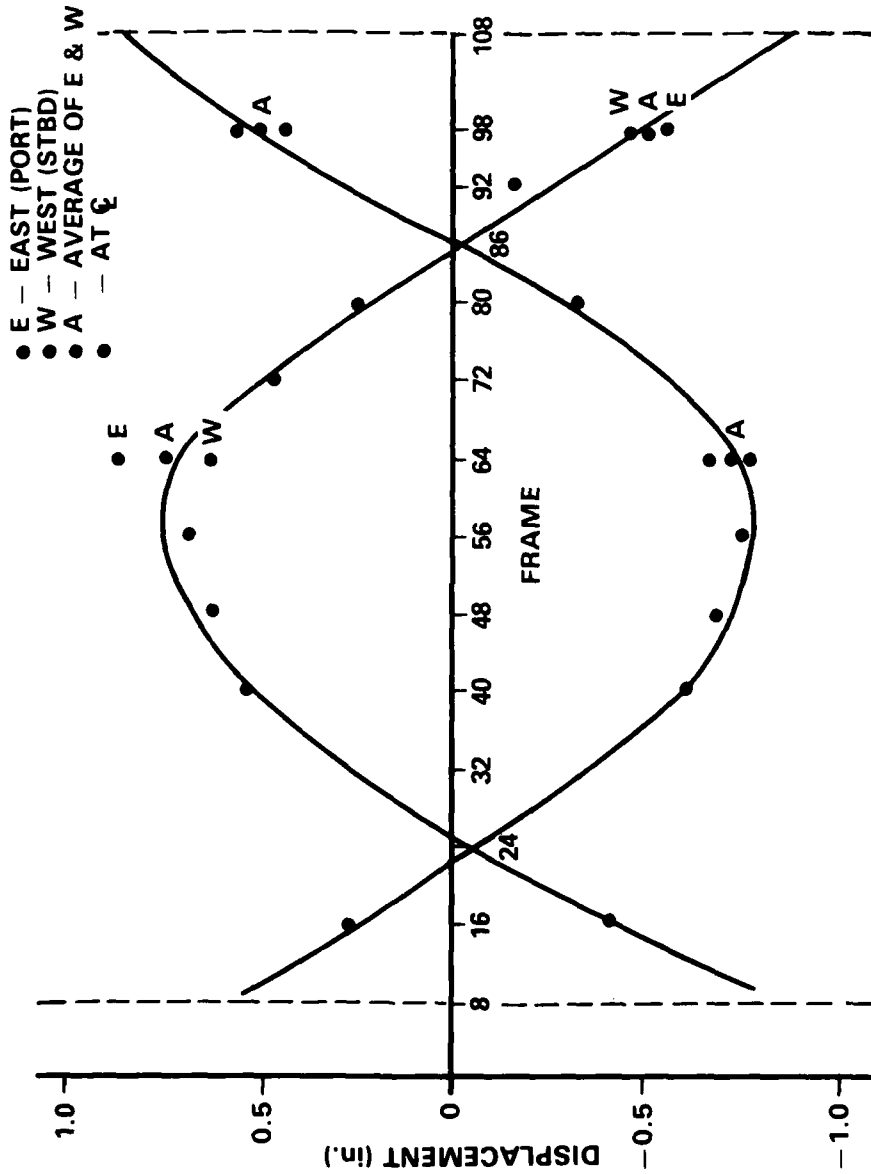


Figure 13 - Keel Vertical Displacement Relative to Stillwater at 80 Percent for Static Test on 10-14-77, Combined 60 Degrees

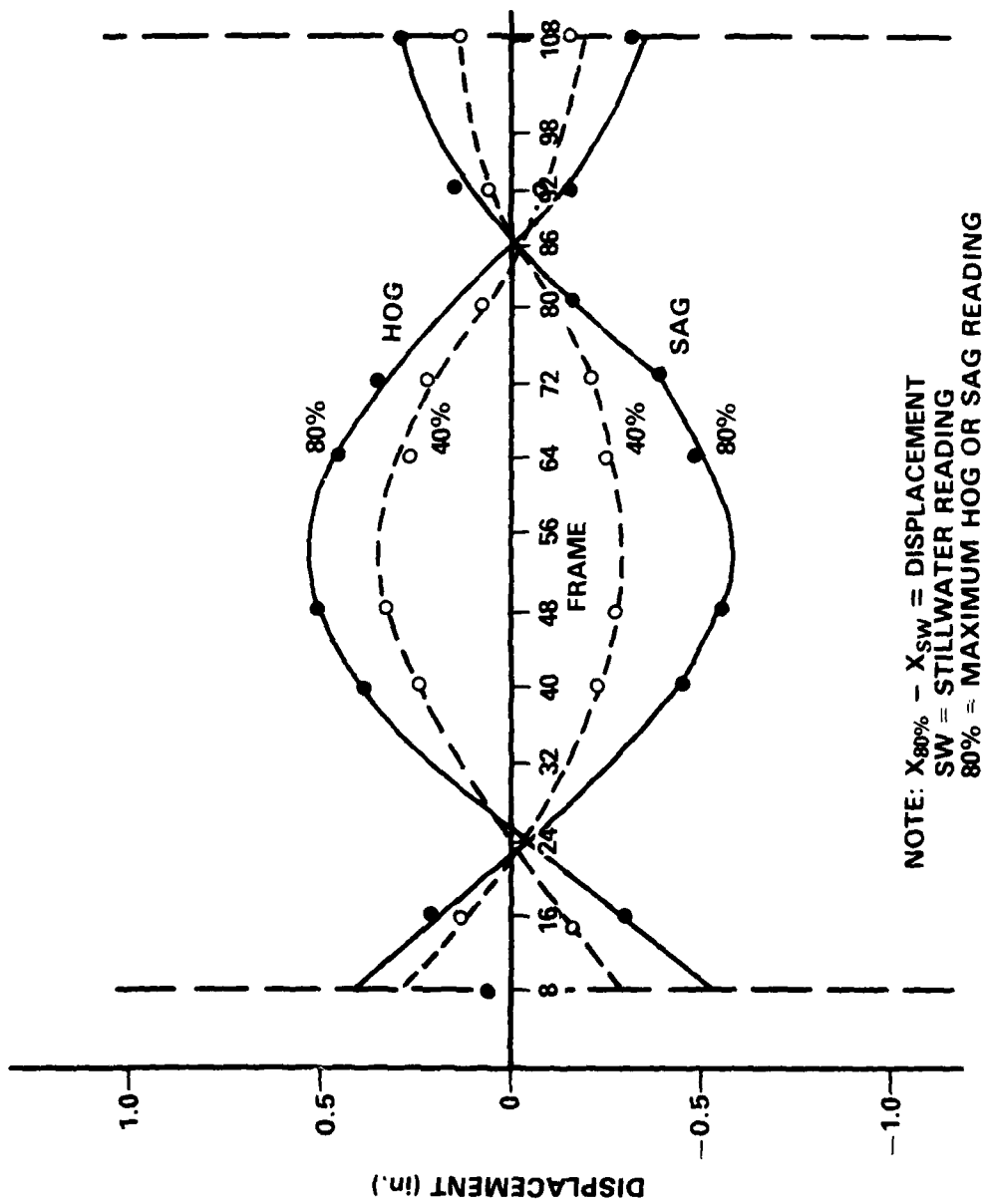


Figure 14 - Gunwale Lateral Displacement Relative to Stillwater at 40 Percent and 80 Percent for Static Test on 10-28-77, with lateral loads

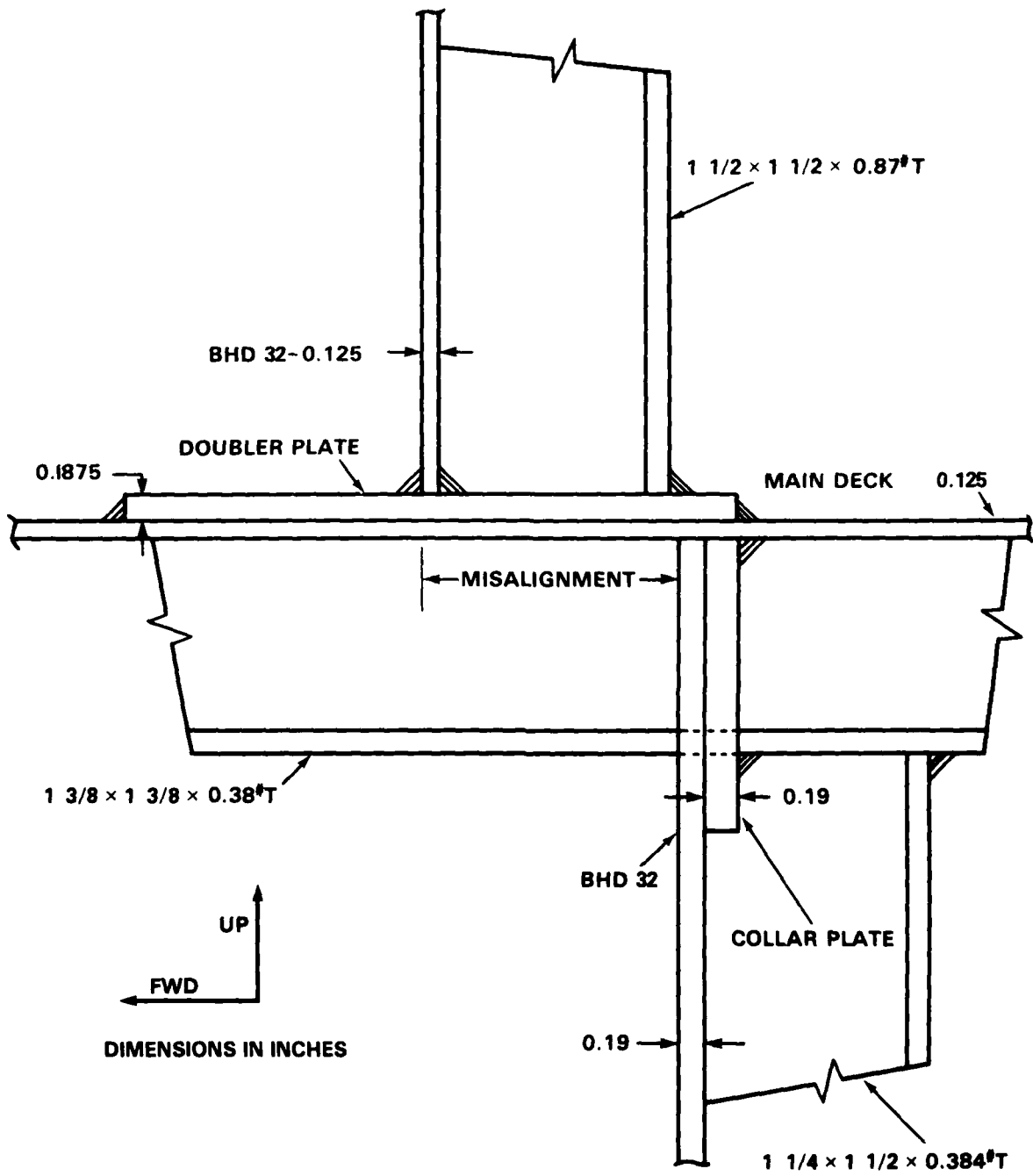


Figure 15 - Bulkhead Misalignment at Intersection of Bulkhead 32 and Main Deck



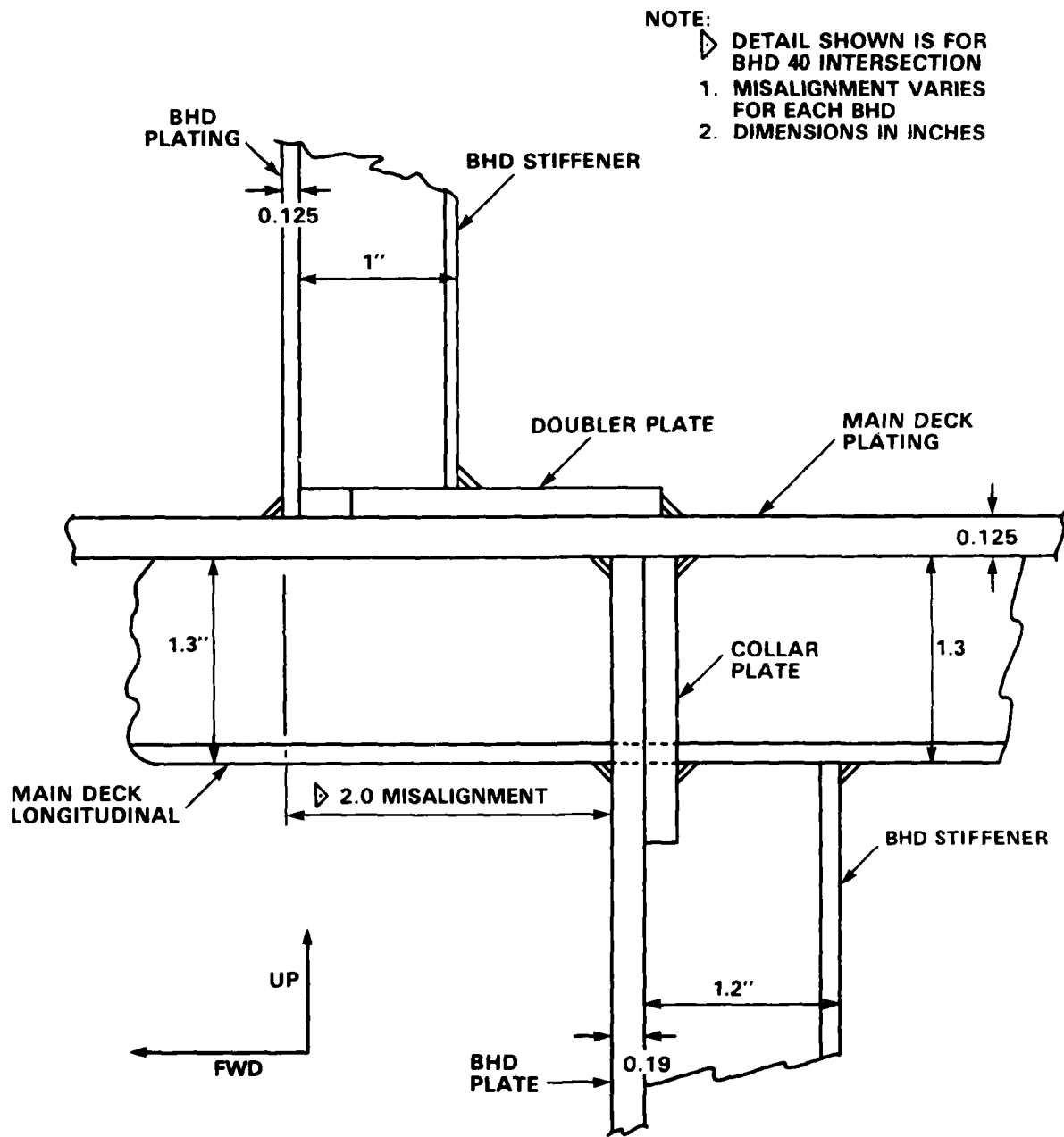


Figure 16 - Bulkhead Misalignment at Intersection of Main Deck and Bulkheads Interior to Deckhouse

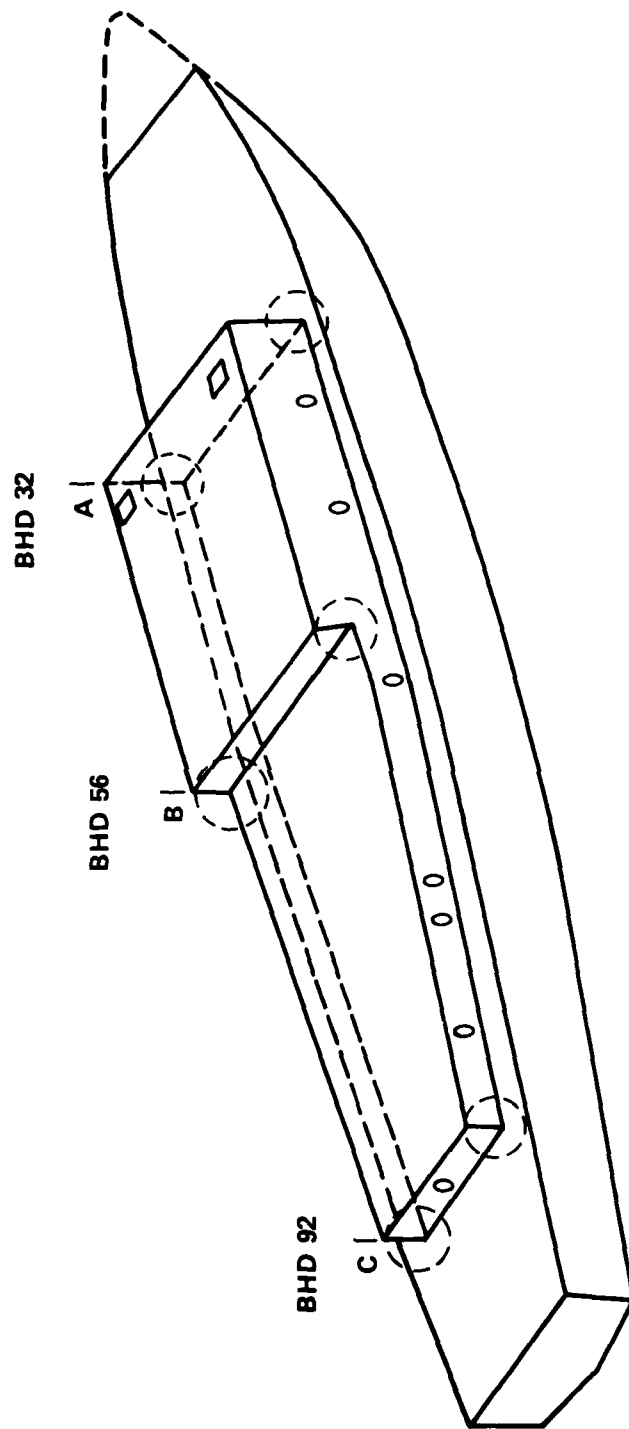
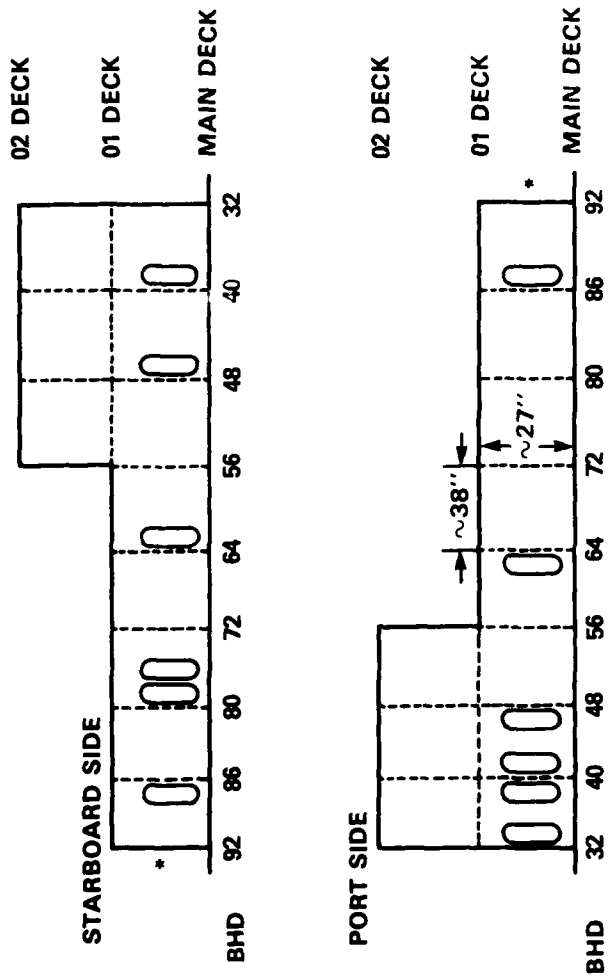


Figure 17 - Areas of High Stresses at Deckhouse Discontinuities



\*HATCH IN BHD 92 NOT SHOWN

Figure 18 - Location of Access Hatch Openings in Deckhouse

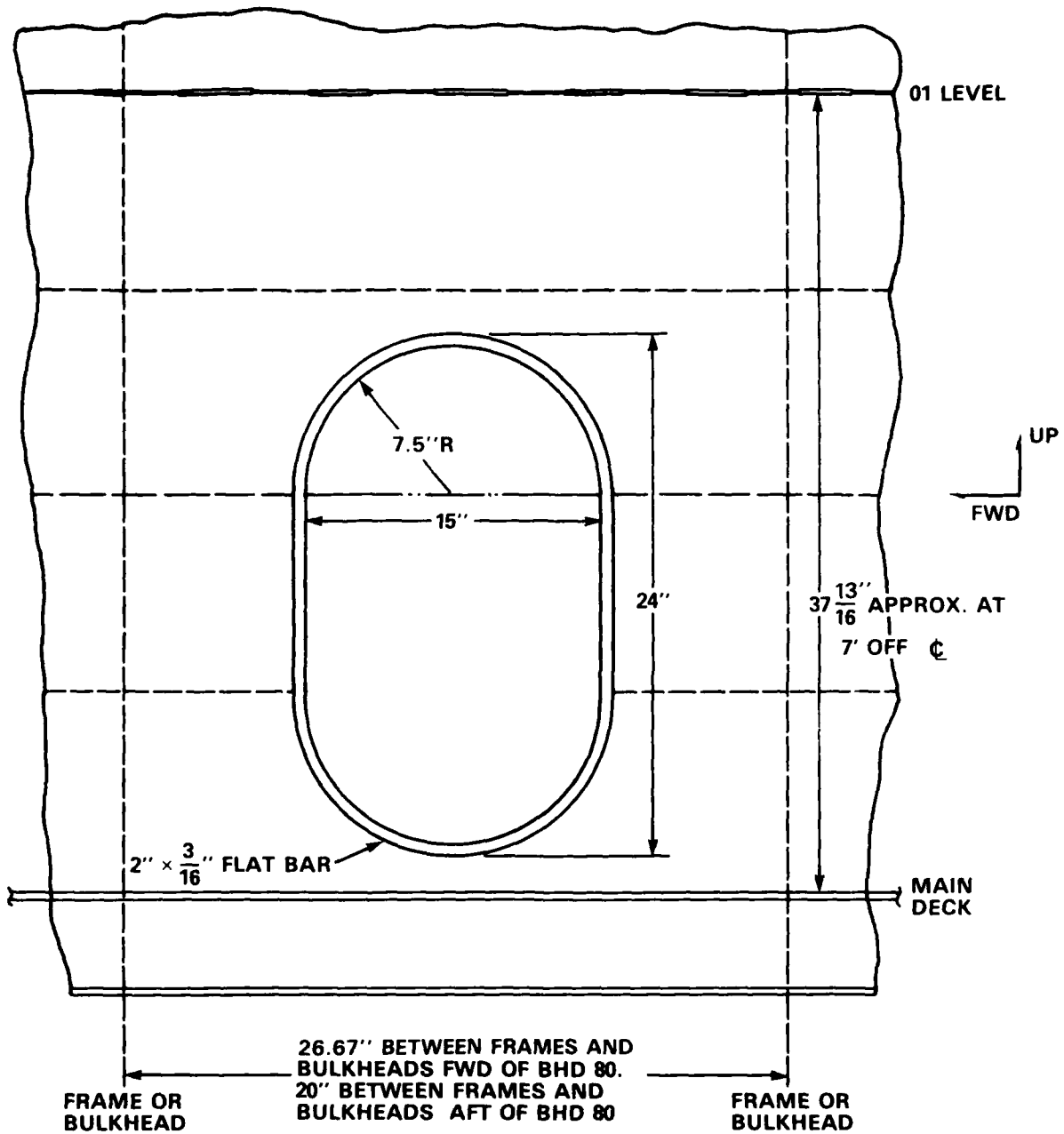


Figure 19 - Typical Deckhouse Side Access Hatch Opening

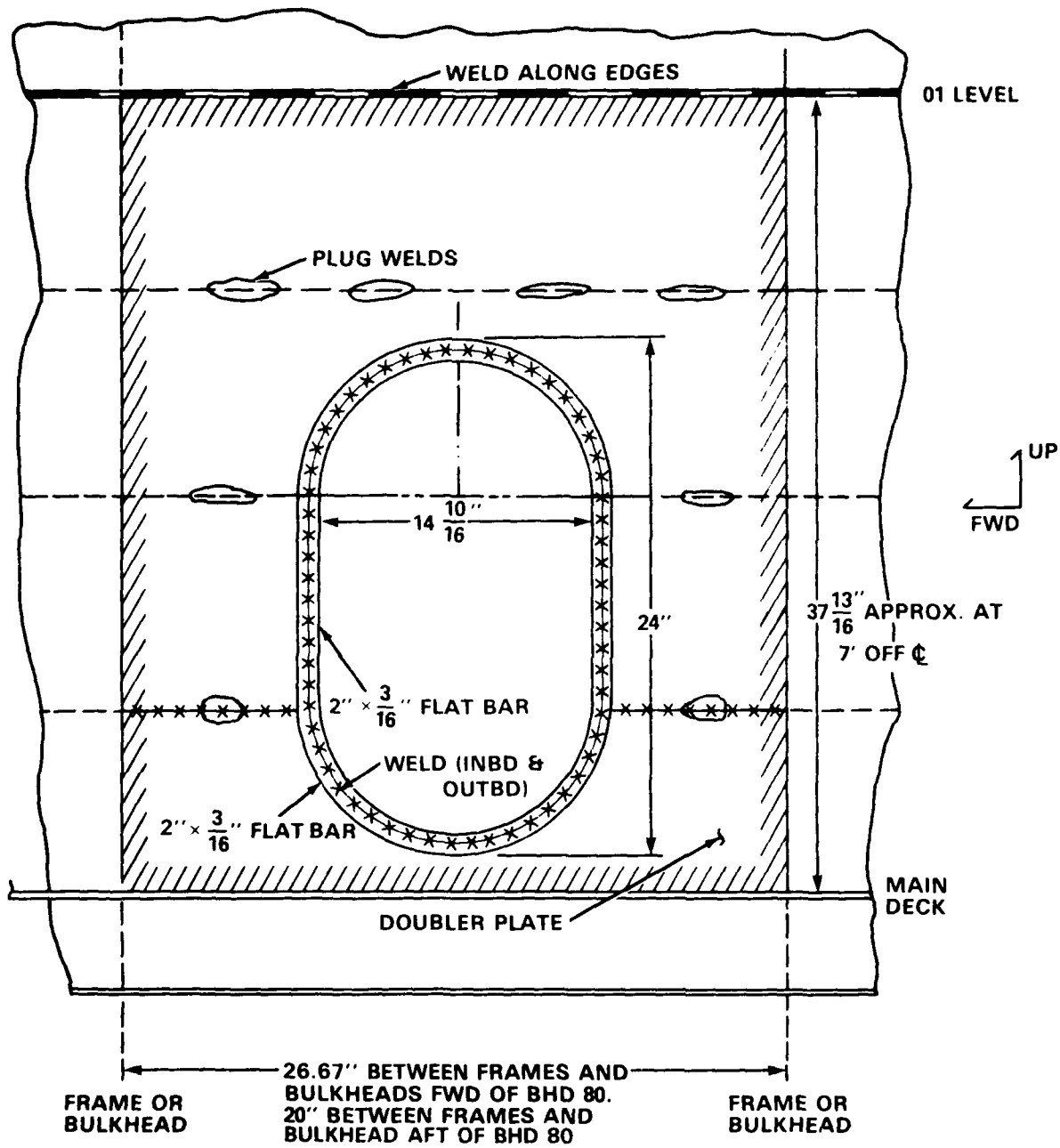


Figure 20 - Typical Deckhouse Side Access Hatch Opening after Structural Modification

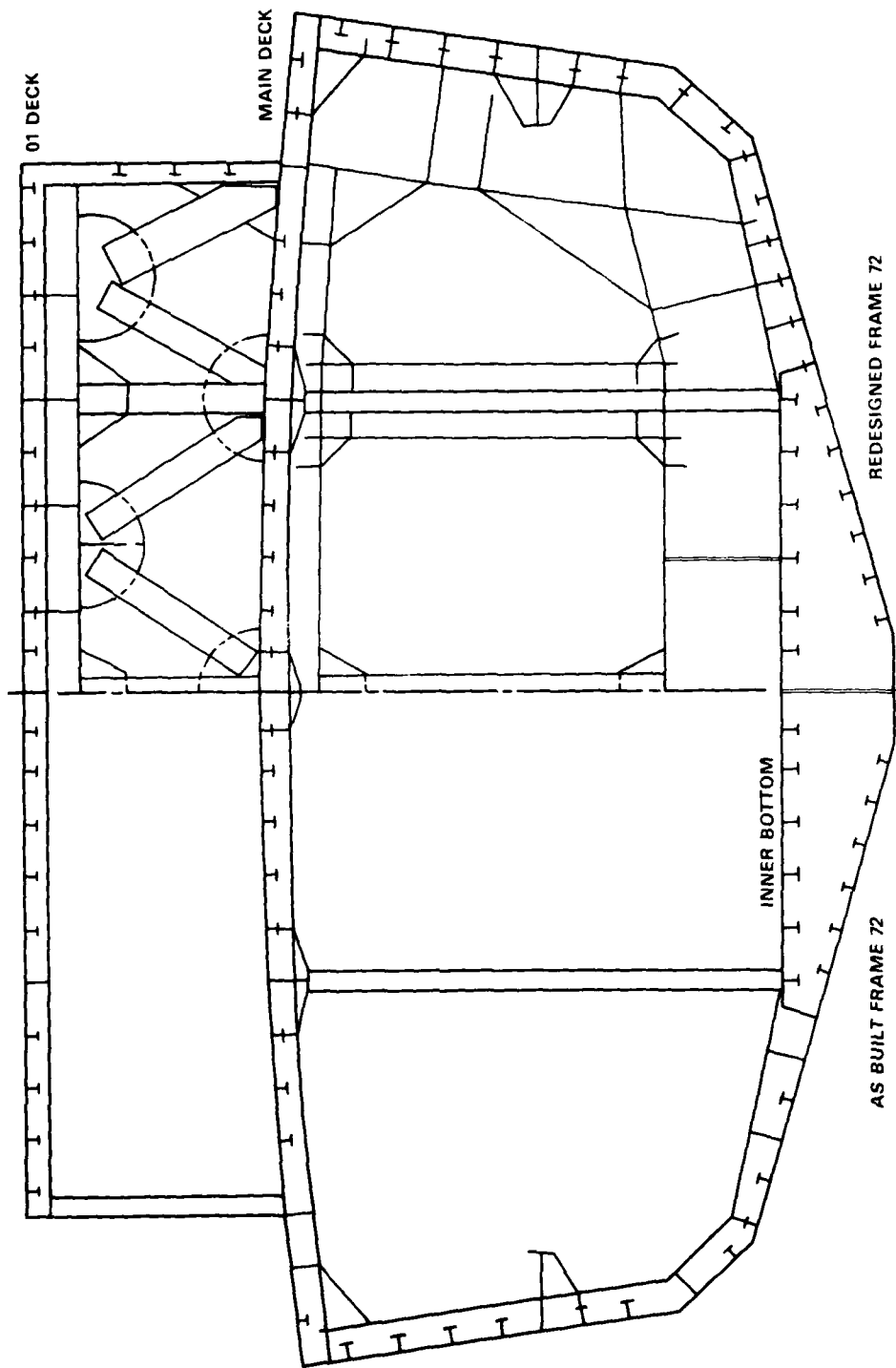
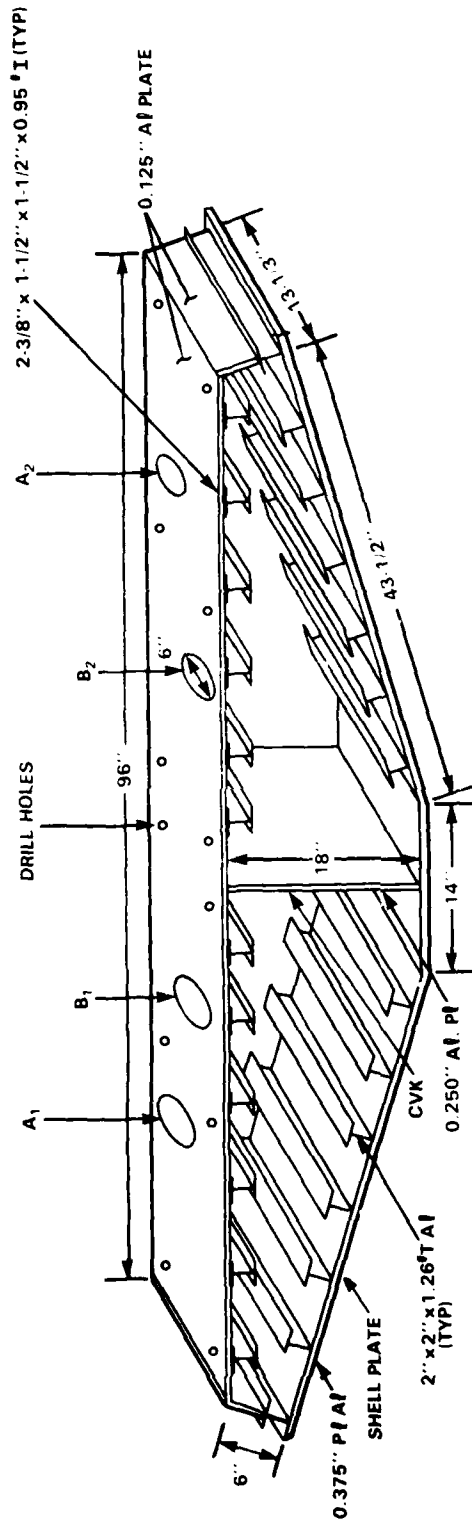


Figure 21 - Section Showing Frame 72 As-Built and after Structural Modifications



NOTE: RESERVOIRS (I.E. A GALLON CAN) SHOULD BE USED OVER OPENINGS A<sub>1</sub>, A<sub>2</sub>, B<sub>1</sub> & B<sub>2</sub>, TO INSURE MAXIMUM INFILTRATION. CONTINUE INFILTRATING UNTIL THE RESERVOIRS AT B<sub>1</sub> & B<sub>2</sub> ARE FULL. AS THE FINAL STEP, REMOVE APPROXIMATELY 3/4'S OF THE SYNTHACTIC FOAM FROM EACH OF THE RESERVOIRS.  
WOODEN MODEL SIMILAR

Figure 22 - Location of Synthactic Foam Pouring Holes at Partial Bulkhead 72

TABLE 1 - LOAD CELL CHANNELS AND LOCATIONS

Channel Number	Load Cell Location (Frame No.)				Notes
	Stbd	Keel			
		East	☐	West	
5	108	—	—	—	
6	—	—	108	—	
7	98	—	—	—	
8	—	98	—	—	
9	—	—	—	98	
10	92	—	—	—	
11	—	—	92	—	
12	86	—	—	—	Fixed*
13	—	—	86	—	Fixed*
14	80	—	—	—	
15	—	—	80	—	
16	72	—	—	—	
17	—	—	72	—	
18	64	—	—	—	
19	—	64	—	—	
20	—	—	—	64	
21	56	—	—	—	
22	—	56	—	—	
23	—	—	—	56	
24	48	—	—	—	
25	—	—	48	—	
26	40	—	—	—	
27	—	—	40	—	
28	24	—	—	—	Fixed*
29	—	24	—	—	Fixed*
30	—	—	—	24	Fixed*
31	16	—	—	—	
32	—	16	—	—	
33	—	—	—	16	
34	8	—	—	—	
35	—	—	8	—	
36	—	—	—	—	8-Surge**

\*A nonmovable location.  
 \*\*Monitors fore and aft.



TABLE 2 - ASEM STATIC TESTS AND ASSOCIATED DATA TAPES

Date	Loading Condition		Max Load Achieved During Test (% of P <sub>max</sub> )	Comments
	Type	Direction		
3-24-77	Vert	Sag	20	First static test
3-25-77	Vert	Sag	80	First major test, with people, stopped at 60° Sag
6-21-77	Vert	Hog	30	First Hog test, stopped at 30° Hog
6-22-77	Vert	Hog	70	Stopped at 70° Hog
7-29-77	Vert	Hog	80	Stopped at 80° Hog
8-09-77	Vert	Sag	80	Complete
8-17-77	Vert	Sag-Hog	80-80	First Sag-Hog. Complete, but missing 50, 60, 70° Sag
9-22-77	Vert	Sag-Hog	80-80	Complete
9-22-77	Vert (Sorted)	Sag-Hog	80-80	Complete, similar to previous tape for same date
9-23-77	Lat	Sag	40	Complete
9-26-77	Lat	Sag	30	Complete
9-27-77	Lat	Hog	80	Complete
10-03-77	Lat	Sag-Hog	80-80	Complete
10-07-77	Combined 60°	Sag-Hog	80-70	Stopped at 70° Hog
10-14-77	Combined 60°	Sag-Hog	80-80	Complete
10-17-77	Combined 240°	Sag-Hog	80-80	Complete
10-26-77	Combined 240°	Sag-Hog	80-80	Complete
10-28-77	Lat	Hog-Sag	80-80	Complete
2-22-78	Combined 240°	Sag-Hog		Initial Abort
3-01-78	Combined 240°	Sag-Hog	70 Sag	240 channels operative
4-12-78	Combined 240°	Sag-Hog	30 Hog	Software problem, overload at Bulkhead 16
6-09-78	Combined 240°	Sag-Hog	40 Hog	Software problem
6-27-78	Combined 240°	Sag-Hog	80-80	Complete test

TABLE 3 - STATIC TESTS SELECTED FOR COMPREHENSIVE DATA ANALYSIS

Test Number*	Date of Test	Time of Day	Type of Test
1	9-22-77	1130 - 1700	Vertical loads only
2	10-28-77	0830 - 1100	Lateral loads only
3	10-14-77	0930 - 1400	Vert. and Lat. loads, 60° Lag
4	10-26-77	0900 - 1200	Vert. and Lat. loads, 240° Lag
*To be referred to throughout report.			

TABLE 4 - A 20-YEAR SPECTRUM OF VERTICAL ORDINARY WAVE (OW) PLUS WHIPPING BENDING MOMENT (WBM) - SAE (19-5)

BM $\times 10^3$ (ft-long-tons)	Cycles Equal to or Exceeding, in
80	1
75	7
74	10
70	$4.5 \times 10^1$
65	$3.6 \times 10^2$
61	$2.0 \times 10^3$
58	$5.5 \times 10^3$
53	$5.0 \times 10^4$
50	$8.3 \times 10^4$
45	$1.6 \times 10^5$
40	$2.9 \times 10^5$
35	$5.0 \times 10^5$
30	$8.5 \times 10^5$
25	$1.5 \times 10^6$
20	$2.6 \times 10^6$
15	$4.9 \times 10^6$
10	$1.0 \times 10^7$
5	$2.3 \times 10^7$
3.75	$2.48 \times 10^7$

TABLE 5 - MISALIGNMENT OF DECKHOUSE BULKHEADS RELATIVE TO HULL BULKHEADS AT MAIN DECK

Bulkhead Location	Misalignment (in.)					
	Port		Centerline		Starboard	
	Offset*	Direction**	Offset	Direction	Offset	Direction
32	0.5	Fwd	2.1	Fwd	1.2	Fwd
40	1.2	Fwd	1.62	Fwd	0.65	Fwd
48	1.0	Fwd	1.57	Fwd	0.38	Fwd
56	0.9	Fwd	0.75	Fwd	0.21	Fwd
64	0.86	Fwd	0.15	Fwd	0.1	Fwd
80	0.0	—	0.23	Aft	0.3	Fwd
86	1.2	Aft	2.14	Aft	1.0	Aft
92	1.0	Aft	1.66	Aft	2.3	Aft

\*Port and starboard offset readings taken near respective deckhouse side.

\*\*Direction is of deckhouse bulkhead relative to hull bulkhead.

TABLE 6 - SUMMARY OF PVC MODEL MODIFICATIONS AND  
SUBSEQUENT ASEM MODIFICATIONS\*

High Stress Area (Frame Location)**	Average Stress*** (ksi)		Type of Modification
	Prior to Modification (PVC/ASEM)	After Modification (PVC/ASEM)	
32 port deckhouse corner	12/8	5/6	Fashion plate, close-off hatch, side shell doubler
32 stbd deckhouse corner	13/16	7/5	Fashion plate side shell doubler
38 port hatch	14/15	9/5	Side shell doubler, coaming doubler
38 stbd hatch	12/--	10/--	Side shell doubler, coaming doubler
Port - behind 56/01 deck	8/7	6/6	Fashion plate
Stbd - behind 56/01 deck	11/13	8/6	Fashion plate
62 port hatch	12/12	--/4	Side shell doubler, coaming doubler
62 stbd hatch	16/3	9/4	Side shell doubler, coaming doubler
79 stbd hatch	15/14	8/4	Side shell doubler, coaming doubler, cross-member
87 stbd hatch	4/14	5/5	Side shell doubler, coaming doubler
92 stbd deckhouse corner	5/6	---	Side shell doubler

\*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modification for the Aluminum Ship Evaluation Model (ASEM)," DTNSRDC Technical Memo 80-173-1 (Sep 1980).

\*\*Side shell doublers and coaming doublers were also used at 42 port hatch, 47 port and stbd hatch, 76 stbd hatch, 87 port hatch, 92 centerline hatch, and 92 port deckhouse corner.

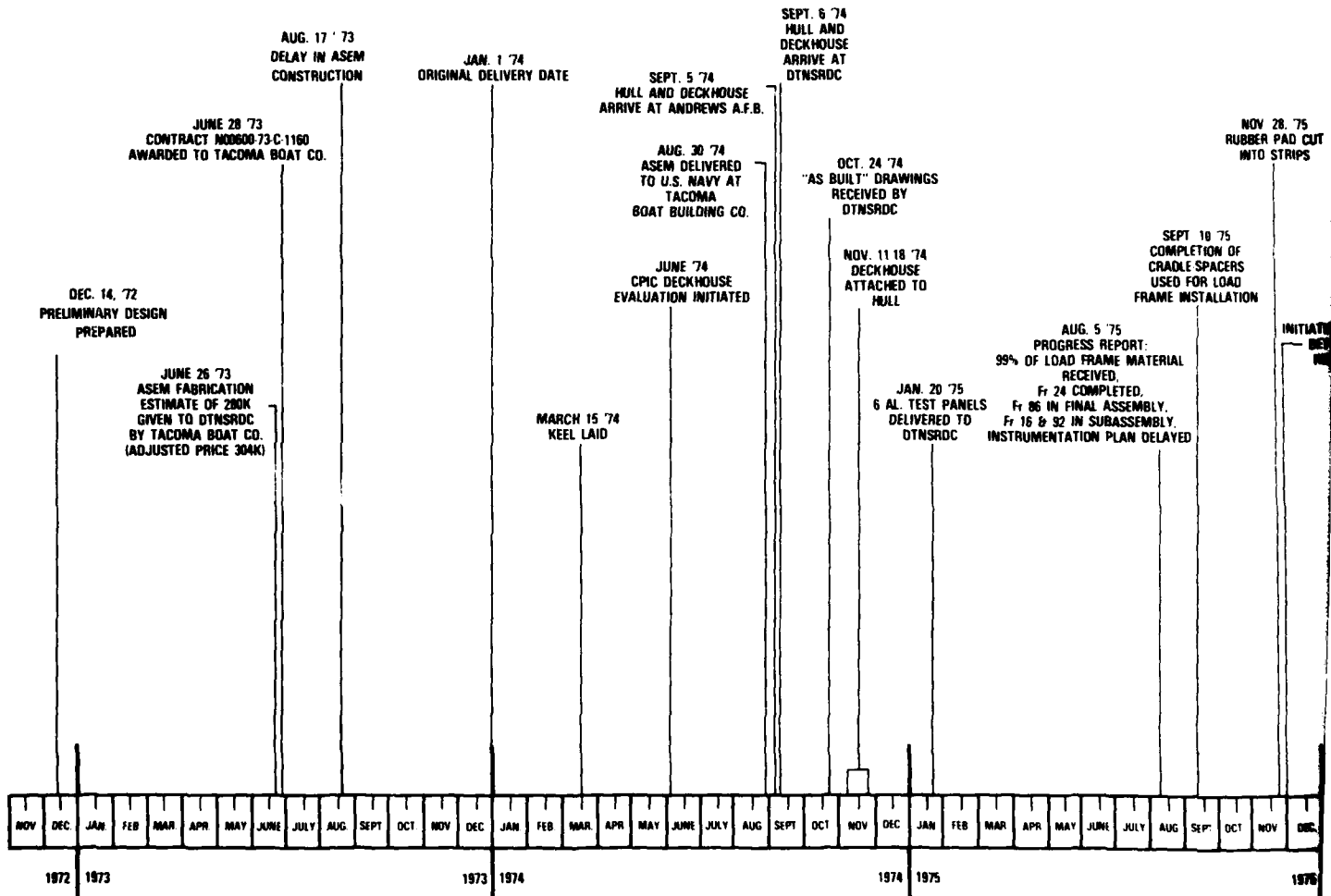
\*\*\*PVC stresses are scaled stresses, and ASEM stresses are determined from test strain data. Both are sag condition, compressive stresses.

TABLE 7 - SUMMARY OF BULKHEAD STIFFENER FLANGE WARPAGE  
(BETWEEN 01 DECK AND MAIN DECK)

Bulkhead	Average Warpage (in.)	Average Direction of Warpage	Maximum Warpage (in.)
32	0.02	Forward	0.05
40	0.05	Forward	0.125(A)
48	0.06	Forward	0.125
56	0.08	Aft	0.125
64	0.04	Aft	0.125
80	0.04	Forward	0.075
86	0.07	Aft	0.15
92	0.14	Aft	0.75

APPENDIX A  
CHRONOLOGICAL FOLD-OUT OF ASEM MAJOR EVENTS THROUGH  
STATIC TEST COMPLETION

This appendix contains a chronological summary of the major events concerning the Large Scale Validation Program with the main emphasis on those items which affected the ASEM (see Figure A.1). The chronology begins with the preparation of the preliminary design by NAVSEA personnel in late 1972; then the construction period and delivery of the ASEM in 1974; the load frame and gage installation spanning from 1975 to 1977; the first static test in March 1977; and, (finally) static test completion in late 1977. Preparations for the cyclic tests were begun in early 1978 (a similar chronological summary is found in the report<sup>6</sup> which includes the results of the cyclic tests run from 1978 to 1981).



SEPT. 19. '77  
COMPLETION OF  
STRUCTURAL  
MODIFICATIONS

SEPT. 20. '77  
ATTEMPT AT  
80% HDG SAG  
TEST (SOFTWARE  
PROBLEMS)

SEPT. 21. '77  
80% SAG  
(GOOD)



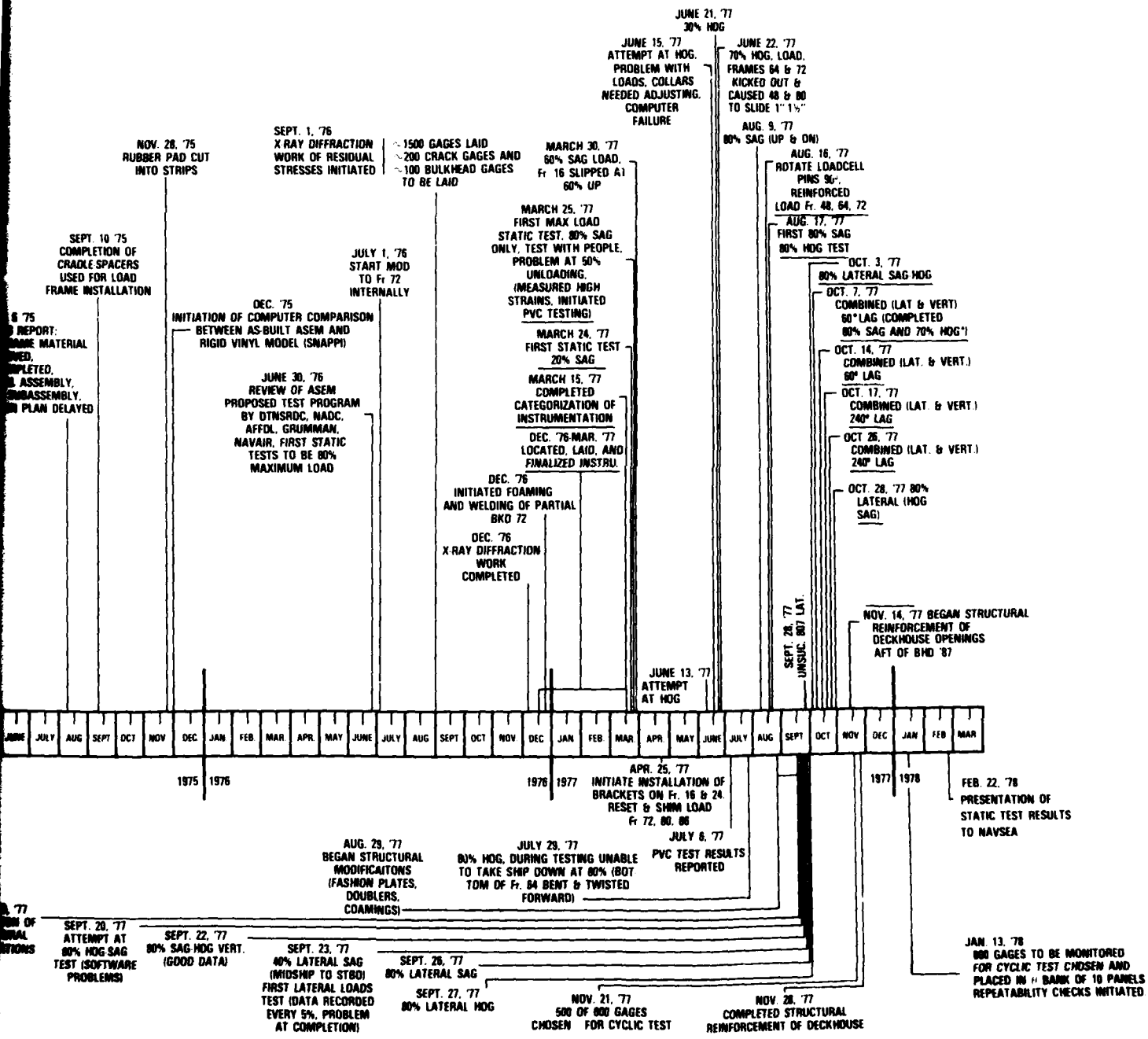


Figure A.1 - ASEM Static Tests Major Events

2

APPENDIX B  
STRAIN DATA OF FOUR ANALYZED STATIC TESTS

GENERAL

During the static tests conducted on the ASEM, data were stored on magnetic tape for future computer data analysis. After preliminary analysis of the data, four tests with the "best behaved" data were chosen for extensive statistical analyses. Tables B.1 through B.4 summarize the results of these analyses. Throughout the analyses, the assumption is made that a linear relationship exists between load and resultant strain. To aid in interpreting the tables, an explanation of each table is given with emphasis on the explanation of column headings.

Prior to static testing, a system was devised which assigned an alphanumeric character to gages based on the gage location on the model.\* In order to better understand gage locations described by the alphanumeric character used in Tables B.1 through B.4, the relevant portions of an informal report were extracted and included in Appendix E for referral.

The first three columns of Tables B.1 through B.4 are all exactly the same. The first column, titled GAGE NUMBER, is a number 1 through 1800 referring to a unique channel and, therefore, to a unique strain gage. As mentioned previously, GAGE NAME refers to the alphanumeric character used to describe the strain gage location. The third column, POSITION, is comprised of three values. The first value is the number associated with one of ten strain bridge completion panels located beneath the model on the test bed floor. The second value is the particular bank (blank, A or B) in each panel. The third value is the strain channel associated with each panel and each bank. This number varies from 1 to 60. Thus, for any one specific strain channel, the GAGE NUMBER, GAGE NAME, and POSITION are individually unique but all three represent one particular strain channel.

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\*Johnson, R.E., "The Aluminum Ship Evaluation Model (ASEM) Instrumentation," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

TABLE B.1 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH INDIVIDUAL VERTICAL AND LATERAL LOADING

The statistical analysis of the strain gage data obtained from the test on 22 September 1977 is presented under the portion of Table B.1 entitled VERTICAL LOADING ONLY. The data analysis of the test on 28 October 1977 is under LATERAL LOADING ONLY. As they imply, only vertical loads were applied to the model on 22 September and only lateral loads were applied on 28 October.

The SENSITIVITY/100% is the number obtained from performing linear regression analyses on the data and extrapolating the strain at 100% maximum BM. In this case, the load and temperature are the two independent variables in the analyses. Thus, multiplying this number by a fraction representing a particular load level will give the strain for that particular load level. In actuality, since no load greater than 80% maximum BM was applied to the model during the static tests, the factor will be no greater than 0.8.

The DRIFT is an indication of the variation in the data from the theoretical straight line plot due to temperature effects over time. The results of the linear multiple regression analysis used in determining the DRIFT is in micro inches per hour of apparent strain due to thermal effects on the lead wire resistance.

In this study, the ERROR OF ESTIMATE (EOE) is the standard deviation of the variation between measured data and predicted values. In general, the smaller this number, the better behaved are the data. However, unless the change in strain resulting from change in applied load is of significant magnitude ( $>50\mu\epsilon$ ), the EOE is not a good measure of data validity.

The CORRELATION COEFFICIENT is the quantitative measure of association between the strain and load variables, or how well a curve (straight line in this case) fits the test data. This value ranges from 0 to 1. As it approaches 1, the correlation between the data and the theoretical straight line will improve. Because of the definition of the correlation coefficient, a saturated (bad) channel will have a data value of zero (thus fitting a horizontal straight line perfectly). In this case, the correlation coefficient will have a meaningless value of 1.0.

TABLE B.2 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH COMBINED VERTICAL AND LATERAL LOADING

Whereas Table B.1 presented the results of the analysis of the data from the vertical-loads-only test and the lateral-loads-only test, Table B.2 presents the data analysis of the combined vertical and lateral loading test with a 60° phase lag and the combined loading test with a 240° phase lag. The ERROR OF ESTIMATE and CORRELATION COEFFICIENT are determined in the same manner as discussed previously. However, for the combined loading tests, the SENSITIVITY/100% values are obtained for the two independent variables, VERTICAL loads, and LATERAL loads.

TABLE B.3 - STRAIN SENSITIVITIES FROM STATISTICAL ANALYSIS OF ASEM STATIC TEST DATA

This table is a compilation of the "best" data selected from Tables B.1 and B.2. The first three columns are the same as in the previous two tables. The fourth column, ASSUMED CAL identifies whether the calibration (cal) value recorded during testing was used in the analysis, or whether an assumed value was used. The strain computations are based on calibration values derived from the statistical evaluation of nine separate values. The assumed calibration value (indicated by a YES) was the average of all of the valid calibration values. For the data analyses, this was -536.9 counts per 1000µε.

The criteria of "best" data is based on the lowest error of estimate. For VERTICAL LOADING ONLY the VERTICAL SENSITIVITY, ESTIMATE OF ERROR, and CORRELATION COEFFICIENT were selected from Tests 1, 3, and 4 (see Table B.4).

TABLE B.4 - TEST IDENTIFICATION USED IN TABLE B.3

Test	Type Loading	Date
1	Vertical	9-22-77
2	Lateral	10-28-77
3	Combined at 60° Lag	10-14-77
4	Combined at 240° Lag	10-26-77

For LATERAL LOADING ONLY the LATERAL SENSITIVITY and associated ERROR OF ESTIMATE and CORRELATION COEFFICIENT were selected from Tests 2, 3, or 4. The majority of the data in Table B.3 came from Tests 1 and 2. Apparently the temperature effects for these two tests were minimized.

TABLE B.5 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 60 DEGREE LAG

This table compares the theoretical data obtained from the data analysis with the actual test data for the test of combined loading with a 60° lag. The first four columns are the same as in the previous tables. The fifth column is the maximum positive measured value of strain and the sixth column is the vertical and lateral loads at which the maximum positive measured strain occurred. The seventh column, PREDICTED STRAIN, is the strain value which would have been predicted using the moment condition of the previous column. This strain value is determined by first dividing the two numbers in the previous column associated with vertical and lateral moment by 100; then multiplying by each appropriate sensitivity from Table B.3 and finally summing the two values.

The last three columns are the MAXIMUM PREDICTED STRAIN, the MOMENT condition at which it occurs and the actual MEASURED STRAIN at that MOMENT condition. When the MAXIMUM PREDICTED STRAIN and the MEASURED STRAIN are determined to be the same, the characters SAME are used to prevent repetition.

TABLE B.6 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 240 DEGREE LAG

This table is similar to Table B.5 except that the comparison of the theoretical and actual data is for the test for combined loading with a 240° phase shift in the lateral and vertical loads.

TABLE B.1 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH INDIVIDUAL VERTICAL AND LATERAL LOADING

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
1	B8C0MMP	9'-1	66	11	7	9470	-6	-2	6	5645
2	B8F4MMP	9'-2	57	19	13	8344	0	37	22	5995
3	B8F7MMP	9'-3	-16	0	38	2464	-6	11	25	2030
4	B8C0MFP	9'-4	0	0	0	1.0000	-51	90	26	7454
5	B8P2MFP	9'-5	-56	13	5	9929	10	44	5	9817
6	B8S4MFP	9'-6	73	2	15	9023	-44	15	82	0603
7	B8S7MMP	9'-7	14	14	2	9940	9	-14	1	9571
8	B8S2MFP	9'-8	-50	22	4	9975	16	-42	4	9705
9	B8C0MHRH	9'-9	-29	110	121	8079	0	0	0	0000
10	B8C0MHRD	9'-10	-361	23	26	9908	16	13	2	9890
11	B8C0MHRV	9'-11	54	17	11	8629	9	-6	2	8487
12	B8P11IRV	9'-12	-1	0	1	2132	0	0	0	1149
13	B8P11IRD	9'-13	257	24	15	9881	17	-77	3	9941
14	B8P11IRH	9'-14	-21	23	4	9944	20	-12	4	8977
15	B8P5FFRV	9'-15	87	12	4	9921	10	186	3	9996
16	B8P5FFRD	9'-16	-157	24	5	9956	22	80	3	9973
17	B8P5FFRH	9'-17	-155	6	4	9945	-15	-90	11	9739
18	B8S11IRN	9'-18	-84	12	6	9934	7	-10	2	8276
19	B8S11IRD	9'-19	0	0	0	1.0000	0	0	0	0000
20	B8S11IRV	9'-20	59	19	13	8464	8	24	4	9720
21	B8S5FFRH	9'-21	-121	16	7	9952	17	92	10	9806
22	B8S5FFRD	9'-22	206	25	86	6355	28	-141	28	8879
23	B8S5FFRV	9'-23	-7	15	3	9903	20	-319	12	9964
24	B8C0MMS	9'-24	-272	18	6	9993	16	-2	4	8931
25	B8P4MMS	9'-25	0	0	0	1.0000	0	0	0	1.0000
26	B8P7MMS	9'-26	-103	14	3	9990	14	7	4	9313
27	B8C0MFS	9'-27	0	3	3	8058	7	1	2	9173
28	B8P2MFS	9'-28	9	14	5	9644	18	-14	4	8696
29	B8S4MMS	9'-29	-234	15	3	9996	17	-37	3	9759
30	B8S7MMS	9'-30	0	0	0	1.0000	0	0	0	1.0000
31	B8S2MFS	9'-31	-10	13	6	9706	13	4	2	9806
32	M9C0S	9'-32	-31	1	1	9991	12	-9	2	8319
33	M9P11P	9'-33	40	14	3	9783	13	-10	6	6762
34	M9S11P	9'-34	40	17	2	9920	8	9	3	9408
35	M11C0S	9'-35	0	0	0	1.0000	0	0	0	1.0000
36	M11S11P	9'-36	22	15	6	9305	15	18	4	9701
37	M13C0S	9'-37	-62	9	4	9943	4	-3	4	2890
38	M13P12P	9'-38	0	0	0	1.0000	0	0	0	1.0000
39	M13S12P	9'-39	-19	10	3	9903	4	27	3	9768
40	M15C0S	9'-40	-91	14	4	9981	16	0	4	9263
41	M15S13P	9'-41	-80	17	5	9960	20	17	4	9724
42	M17C0S	9'-42	-104	11	3	9987	10	-1	4	8069
43	M17P13P	9'-43	-38	15	4	9947	8	-32	6	9055
44	M17S13P	9'-44	-33	15	4	9937	13	42	3	9920
45	M19C0S	9'-45	-141	12	2	9997	10	-8	3	8157
46	M19S13P	9'-46	-25	15	3	9939	19	81	12	9681
47	M23C0S	9'-47	-141	15	2	9997	15	4	5	9004
48	M23S13 9P	9'-48	-188	14	3	9995	8	104	4	9968
49	M25P13P	9'-49	-179	13	3	9996	10	-123	3	9985
50	M25S13P	9'-50	-175	10	2	9997	7	128	2	9995
51	M27C0S	9'-51	-125	15	21	9614	-15	46	72	1023
52	M27S14P	9'-52	-199	12	12	9935	1	173	18	9770
53	M29C0S	9'-53	0	0	0	1.0000	0	0	0	1.0000
54	M29P14P	9'-54	0	0	0	1.0000	0	0	0	1.0000
55	M29S14P	9'-55	-237	9	3	9996	12	188	3	9994
56	M31C0S	9'-56	-322	21	2	9999	23	-3	5	9312
57	M31S14P	9'-57	-347	15	2	9999	9	212	2	9998
58	H24-1S20P(C)	9'-58	-214	12	2	9998	11	119	2	9995
59	F854P(C)	9'-59	-30	10	2	9999	12	80	2	9991
60	H36P18-S(D)	9'-60	1	9	1	9953	9	-1	2	9180
61	B16C0MMP	9'-A-1	178	5	11	9896	-3	-12	8	8318
62	B16C0MMS	9'-A-2	-272	26	33	9780	16	172	257	2201
63	B16P4MMP	9'-A-3	189	4	19	9754	-2	42	15	7843
64	B16P4MMS	9'-A-4	8	4	10	2641	0	0	0	1.0000
65	B16P8MMP	9'-A-5	202	7	31	9420	-36	68	40	4469
66	B16P8MMS	9'-A-6	-21	-1	26	2543	-16	73	18	8313
67	B16C0MFP	9'-A-7	86	9	13	9274	8	2	8	5644
68	B16C0MFS	9'-A-8	103	15	9	9708	16	-6	4	9073
69	B16P3MFP	9'-A-9	-15	3	42	0870	10	53	37	5946
70	B16P3MFS	9'-A-10	265	6	31	9652	4	17	22	3586
71	B16C0F1P	9'-A-11	109	6	12	9654	7	6	5	7552
72	B16C0F1S	9'-A-12	3	2	5	2038	0	-1	1	4893
73	B16P2F1P	9'-A-13	129	8	11	9771	9	18	10	7491
74	B16P2F1S	9'-A-14	-22	20	10	9648	13	4	13	5525
75	B16S4MMP	9'-A-15	143	8	16	9824	9	-18	8	5504

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
76	B1654MMS	9-A-16	-154	16	13	9902	12	-18	5	7550
77	B1658MMP	9-A-17	154	4	16	9728	-11	-47	11	9711
78	B1658MMS	9-A-18	9	17	23	8659	5	-51	13	8599
79	B1653MFP	9-A-19	-6	-3	7	2641	0	0	0	1 0000
80	B1653MFS	9-A-20	213	-3	40	9307	-2	-38	19	6717
81	B1652F1P	9-A-21	159	13	12	9674	18	-12	14	4289
82	B1652F1S	9-A-22	-114	16	15	9770	10	-23	20	2855
83	B16CDHHRM	9-A-23	-25	14	23	7168	16	-33	6	8555
84	B16CDHHRD	9-A-24	-70	12	25	8781	16	16	4	9623
85	B16CDHHRV	9-A-25	9	5	12	2641	0	0	0	1 0000
86	B16P311RV	9-A-26	127	14	12	5704	15	23	5	9656
87	B16P311RD	9-A-27	147	15	7	9911	18	-10	6	7944
88	B16P311RH	9-A-28	-215	15	11	9953	4	40	20	7055
89	B16P75FFRV	9-A-29	859	15	48	9922	4	73	19	8839
90	B16P75FFRD	9-A-30	-5	-3	7	2642	0	0	0	1 0000
91	B16P75FFRH	9-A-31	-390	15	10	9988	25	44	27	7639
92	B16S311RV	9-A-32	-188	13	10	9954	6	-42	17	7088
93	B16S311RD	9-A-33	227	11	9	9954	14	45	11	9261
94	B16S311RV	9-A-34	216	15	12	9912	15	-8	10	5082
95	B16S75FFRV	9-A-35	-7	-3	9	2641	3	-13	20	0383
96	B16S75FFRD	9-A-36	404	9	34	9824	33	-125	37	7762
97	B16S75FFRV	9-A-37	653	5	50	9864	8	-133	12	9800
98	F9CDNA	9-A-38	-47	7	10	9361	-26	11	17	5592
99	F13CDNA	9-A-39	-30	10	3	9930	6	-2	4	6130
100	F17CDP	9-A-40	218	15	3	9993	17	1	4	9258
101	F213CDP	9-A-41	176	17	6	9956	20	-4	7	8195
102	F25CDNA	9-A-42	-42	8	16	8762	-3	-2	11	0746
103	F28CDNA	9-A-43	-24	19	8	9784	17	8	4	9602
104	F9CDP	9-A-44	-4	2	5	2643	0	0	0	1 0000
105	F13CDP	9-A-45	34	11	4	9410	15	-10	4	8743
106	F17CDNA	9-A-46	-11	16	4	9905	11	0	3	8929
107	F213CDNA	9-A-47	38	25	33	4920	13	-15	16	2288
108	F9CDP	9-A-48	-72	2	8	9563	13	-1	5	8361
109	H11CDP	9-A-49	76	17	28	6379	13	2	7	7219
110	H13CDP	9-A-50	-7	3	9	2642	0	0	0	1 0000
111	H15CDP	9-A-51	0	12	41	3369	-7	4	27	3262
112	H17CDP	9-A-52	27	18	58	4929	56	33	118	2687
113	H19CDP	9-A-53	10	5	13	2641	0	0	0	1 0000
114	H23CDP	9-A-54	190	14	5	9981	16	-1	5	8799
115	H25CDP	9-A-55	247	14	4	9994	12	2	3	9392
116	H27CDP	9-A-56	371	19	4	9997	24	-4	5	9517
117	H29CDP	9-A-57	449	13	3	9995	12	2	2	9534
118	H31CDP	9-A-58	534	12	6	9997	9	-3	3	7958
119	H47CDP	9-A-59	696	11	5	9999	14	-2	3	9215
120	H12555S	9-A-60	-3	10	4	9687	8	-1	3	7628
121	B24CDMMP	9-B-1	101	7	8	9828	-14	-2	12	5912
122	B24CDMMS	9-B-2	-303	9	51	9526	140	-51	286	1016
123	B2454MMP	9-B-3	57	8	10	8773	11	-16	7	6759
124	B24P4MMS	9-B-4	0	0	0	1 0000	0	0	0	1 0000
125	B24P5MMP	9-B-5	43	11	3	9763	-3	7	7	2270
126	B24P6MMS	9-B-6	-43	0	14	7954	-6	88	12	9562
127	B24PDMFP	9-B-7	48	11	6	9231	13	-3	3	9007
128	B24PDMFS	9-B-8	-12	15	5	9848	-8	9	8	6775
129	B24P4MFP	9-B-9	4	18	6	9697	22	18	4	9019
130	B24P5MFP	9-B-10	149	11	22	9339	5	45	13	8678
131	B24CDF1P	9-B-11	50	9	8	9360	8	8	4	8983
132	B24CDF1S	9-B-12	1	0	1	2459	0	0	1	2528
133	B2453F1P	9-B-13	-601	-55	259	6465	14	-18	4	8399
134	B24P3F1S	9-B-14	-88	20	8	9871	16	27	6	9626
135	B24P4MMP	9-B-15	82	11	9	9504	2	19	5	8664
136	B2454MMS	9-B-16	-171	18	6	9982	20	-52	5	9551
137	B24P4MMP	9-B-17	99	5	4	9952	-4	3	5	1945
138	B2457MMS	9-B-18	-44	13	18	8963	4	-51	9	9269
139	B24P5MFP	9-B-19	0	0	0	1 0000	0	0	0	1 0000
140	B2454MFS	9-B-20	64	12	15	8181	9	-11	10	2701
141	B24P3F1P	9-B-21	88	12	12	9334	10	20	5	9384
142	B2453F1S	9-B-22	-47	16	9	9725	10	-15	6	6056
143	B24CDHHRM	9-B-23	-207	15	16	9899	9	31	8	9181
144	B24CDHHRD	9-B-24	-90	18	9	9896	7	28	8	8844
145	B24CDHHRV	9-B-25	0	0	0	1 0000	0	0	0	1 0000
146	B24P411RH	9-B-26	-363	14	14	9864	6	88	11	9714
147	B24P411RD	9-B-27	116	14	8	9929	8	42	7	9515
148	B24P411RV	9-B-28	117	13	8	9807	9	12	6	8403
149	B24P9FFRV	9-B-29	408	17	26	9887	5	142	19	9628
150	B24P9FFRD	9-B-30	0	0	0	1 0000	0	0	0	1 0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
151	B24P9FFRH	9-8-31	-227	16	12	9955	14	7	17	4943
152	B24S411RH	9-8-32	-369	13	16	9965	-1	-77	12	9487
153	B24S411RD	9-8-32	0	0	0	1 0000	7	-39	5	9414
154	B24S411RV	9-8-34	82	13	7	9654	15	-13	6	7079
155	B24S9FFRH	9-8-35	-171	15	7	9977	3	-36	13	7562
156	B24S9FFRD	9-8-36	111	16	9	9721	19	-41	9	8445
157	B24S9FFRV	9-8-37	258	9	17	9887	14	-38	12	7160
158	I29COP	9-8-38	342	13	3	9997	-1	-6	6	4202
159	I29COP	9-8-39	292	9	2	9999	4	-1	6	2082
160	B32CO 1M2P(C)	9-8-40	-244	12	4	9994	16	5	4	9422
161	M31 9CDP(C)	9-8-41	-563	16	3	9999	21	11	4	9685
162	M22 559 5P(C)	9-8-42	-268	10	5	9994	9	63	8	9695
163	M23P 3P(C)	9-8-43	-186	12	2	9998	13	-36	3	9625
164	M22 5P 3P(C)	9-8-44	-182	12	3	9994	15	-13	3	8741
165	M12 5P 4P(C)	9-8-45	-48	15	3	9976	15	-15	7	6461
166	M12 5P 5P(C)	9-8-46	-49	13	2	9988	10	-6	2	8995
167	M12 5P4P(C)	9-8-47	-69	13	3	9964	12	-17	3	8468
168	B24P11 6P(SC)	9-8-48	129	13	12	9705	3	47	6	9719
169	H23 958 5P(HSL)	9-8-49	-292	13	4	9997	0	104	5	9555
170	H23 958 5P(HSU)	9-8-50	392	10	4	9998	4	-28	-	8644
171	H23 9P8 5P(HSL)	9-8-51	-320	0	27	9842	-4	-79	30	7786
172	H23 9P8 5P(HSU)	9-8-52	319	3	13	9961	0	61	6	9806
173	M60S9P(C)	9-8-53	0	0	0	1 0000	0	0	0	1 0000
174	M48 1P8P(C)	9-8-54	-336	13	5	9995	9	-133	4	9974
175	B4855MMS(BM)	9-8-55	59	8	17	7762	8	26	2	9884
176	B4855M2P(BM)	9-8-56	-137	13	26	9509	23	37	3	9955
177	B4855M2S(BM)	9-8-57	-97	7	36	8221	16	24	7	5417
178	B4855 1M2P(BM)	9-8-58	-47	6	14	8970	216	-823	1326	0964
179	M49 559P(IF)	9-8-59	0	0	0	1 0000	3	160	3	9952
180	H28P17 5(D)	9-8-60	1	0	2	1205	-7	3	4	8375
181	B40C0TTP	8- - 1	0	0	1	2019	1	-1	1	0228
182	B40C0TTS	8- - 2	-1	0	1	3520	0	0	0	1596
183	B40P4TTP	8- - 3	0	0	1	2571	0	0	1	2316
184	B40P4TTS	8- - 4	0	0	0	2976	0	0	1	2343
185	B40P8TTP	8- - 5	0	0	0	2976	0	0	0	1 0000
186	B40P8TTS	8- - 6	1	0	0	6649	0	0	1	1715
187	B40C0ZTP	8- - 7	0	0	0	2976	0	0	0	1929
188	B40C0ZTS	8- - 8	0	0	0	1 0000	0	0	0	1 0000
189	B40P4ZTP	8- - 9	0	0	7	5101	0	0	0	1 0000
190	B40P4ZTS	8- - 10	0	0	0	3830	-1	0	1	5011
191	B40P8ZTP	8- - 11	0	-4	2	9516	4	-1	2	7209
192	B40P8ZTS	8- - 12	-1	0	1	4707	0	0	1	1284
193	B40COMZP	8- - 13	0	0	1	6857	0	0	0	1 0000
194	B40COMZS	8- - 14	0	0	0	2976	0	0	1	0236
195	B40COMFP	8- - 15	0	0	1	3123	2	1	2	5741
196	B40COMFS	8- - 16	-1	-1	1	6631	0	0	0	1 0000
197	B40P7MFP	8- - 17	-1	0	1	5030	0	0	0	1 0000
198	B40P7MFS	8- - 18	-1	0	1	4598	0	0	0	1 0000
199	B40COFIP	8- - 19	0	0	0	1 0000	0	0	0	1 0000
200	B40COFIS	8- - 20	0	0	0	1262	0	0	1	2011
201	B40P6FIP	8- - 21	0	0	1	6452	0	0	1	0427
202	B40P6FIS	8- - 22	-1	0	1	2672	0	0	1	0713
203	B40S4TTP	8- - 23	1	0	1	0822	0	0	1	1848
204	B40S4TTS	8- - 24	0	0	0	1 0000	0	0	0	1 0000
205	B40S8TTP	8- - 25	0	0	0	1 0000	0	0	0	1 0000
206	B40S8TTS	8- - 26	-1	0	0	5882	0	0	1	2346
207	B40S4ZTP	8- - 27	0	0	0	1 0000	0	0	0	1 0000
208	B40S4ZTS	8- - 28	0	0	0	1523	0	0	0	1977
209	B40S8ZTP	8- - 29	0	0	1	2279	0	0	1	2421
210	B40S8ZTS	8- - 30	0	0	1	1162	0	0	0	1 0000
211	B40S8MFP	8- - 31	0	0	1	1699	0	0	1	2543
212	B40S8MFS	8- - 32	0	0	0	1 0000	0	0	0	1 0000
213	B40S6FIP	8- - 33	1	0	1	4053	0	0	0	0499
214	B40S6FIS	8- - 34	1	0	1	4222	0	0	0	1 0000
215	B40COMHRH	8- - 35	1	0	1	4819	0	0	0	1 0000
216	B40COMHRD	8- - 36	2	0	1	4289	0	0	0	1 0000
217	B40COMHRV	8- - 37	1	0	1	2684	1	-1	1	3186
218	B40P611RH	8- - 38	0	0	1	2364	1	0	1	2181
219	B40P611RD	8- - 39	1	0	1	3833	0	0	1	1675
220	B40P611RV	8- - 40	-1	0	1	2409	0	1	1	1791
221	B40P9FIRH	8- - 41	-1	0	1	2708	0	0	0	2158
222	B40P9FIRD	8- - 42	-1	0	1	3083	0	0	0	1 0000
223	B40P9FIRH	8- - 43	-1	-1	1	3661	0	0	0	1 0000
224	B40P12FFRV	8- - 44	-2	0	2	2005	0	0	1	2412
225	B40P12FFRD	8- - 45	-1	0	1	2738	0	0	0	1 0000



TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY VERTICAL	100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY LATERAL	100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
226	B40P12FFRH	8-A-46	0	0	1	0800	0	0	1	0000
227	B40S611RV	8-A-47	0	0	1	3393	0	0	1	0000
228	B40S611RD	8-A-48	0	0	1	2219	0	0	1	0000
229	B40S611RH	8-A-49	0	0	1	1014	0	0	1	0000
230	B40S9P1RH	8-A-50	0	0	1	1657	0	0	1	0000
231	B40S9P1RD	8-A-51	0	0	1	2182	0	0	1	0000
232	B40S9P1RV	8-A-52	0	0	0	10000	0	0	1	0000
233	B40S12FFRH	8-A-53	0	0	1	1240	0	0	1	0000
234	B41S12FFRD	8-A-54	0	0	2	0355	0	0	1	0000
235	B40S12FFRV	8-A-55	0	0	0	0000	0	0	1	0000
236	B46COMMP	8-A-56	1	0	1	1003	0	0	1	0000
237	B46S84MFRV	8-A-57	0	0	1	2110	0	0	1	0000
238	B46S84MFRD	8-A-58	1	0	1	3475	0	0	1	0000
239	B46S84MFRH	8-A-59	1	0	1	2872	0	0	1	0000
240	W46P2212	8-A-60	0	0	1	2497	0	0	1	0000
241	B48C07TP	8-A-1	0	0	1	3321	0	0	1	0000
242	B48C07TS	8-A-2	0	0	1	3770	0	0	1	0000
243	B48P47TP	8-A-3	0	0	1	5078	0	0	1	0000
244	B48P47TS	8-A-4	0	0	1	3529	0	0	1	0000
245	B48P87TP	8-A-5	0	0	1	2245	0	0	1	0000
246	B48P87TS	8-A-6	0	0	1	6808	0	0	1	0000
247	B48P12TP	8-A-7	0	0	1	2283	0	0	1	0000
248	B48C07TS	8-A-8	0	0	1	2324	0	0	1	0000
249	B48P42TS	8-A-9	0	0	1	4902	0	0	1	0000
250	B48P42TS	8-A-10	0	0	1	5899	0	0	1	0000
251	B48P87TP	8-A-11	0	0	0	1594	0	0	1	0000
252	B48P87TS	8-A-12	0	0	0	5577	0	0	1	0000
253	B48COMZP	8-A-13	0	0	1	4259	0	0	1	0000
254	B48COMZS	8-A-14	0	0	0	1673	0	0	1	0000
255	B48COMZP	8-A-15	0	0	1	2324	0	0	1	0000
256	B48COMFS	8-A-16	0	0	1	1714	0	0	1	0000
257	B48P6MFP	8-A-17	0	0	0	1030	0	0	1	0000
258	B48P6MFS	8-A-18	0	0	0	3213	0	0	1	0000
259	B48CDF1P	8-A-19	0	0	0	10000	0	0	1	0000
260	B48CDF1S	8-A-20	0	0	0	0531	0	0	1	0000
261	B48P6P1P	8-A-21	0	0	1	8262	0	0	1	0000
262	B48P6P1S	8-A-22	0	0	1	3228	0	0	1	0000
263	B48S87TP	8-A-23	0	0	1	1823	0	0	1	0000
264	B48S47TS	8-A-24	0	0	0	10000	0	0	1	0000
265	B48S87TP	8-A-25	0	0	0	10000	0	0	1	0000
266	B48S87TS	8-A-26	0	0	1	4627	0	0	1	0000
267	B48S47TP	8-A-27	0	0	0	10000	0	0	1	0000
268	B48S47TS	8-A-28	0	0	1	6837	0	0	1	0000
269	B48S82TP	8-A-29	0	0	0	10000	0	0	1	0000
270	B48S82TS	8-A-30	0	0	0	0856	0	0	1	0000
271	B48S6MFP	8-A-31	0	0	0	3563	0	0	1	0000
272	B48S6MFS	8-A-32	0	0	0	10000	0	0	1	0000
273	B48S6P1P	8-A-33	0	0	1	0763	0	0	1	0000
274	B48S6P1S	8-A-34	0	0	1	2222	0	0	1	0000
275	B48C0HHRH	8-A-35	0	0	1	2575	0	0	1	0000
276	B48C0HHRD	8-A-36	0	0	1	2222	0	0	1	0000
277	B48C0HHRV	8-A-37	0	0	1	3559	0	0	1	0000
278	B48P711RV	8-A-38	0	0	1	1551	0	0	1	0000
279	B48P711RD	8-A-39	0	0	1	3407	0	0	1	0000
280	B48P10F1RH	8-A-40	0	0	1	2052	0	0	1	0000
281	B48P10F1RV	8-A-41	0	0	1	2120	0	0	1	0000
282	B48P10F1RD	8-A-42	0	0	1	1814	0	0	1	0000
283	B48P10F1PH	8-A-43	0	0	1	1526	0	0	1	0000
284	B48P12FFRV	8-A-44	0	0	1	1512	0	0	1	0000
285	B48P12FFRD	8-A-45	0	0	1	1310	0	0	1	0000
286	B48P12FFRH	8-A-46	0	0	1	2531	0	0	1	0000
287	B44S711RH	8-A-47	0	0	1	2025	0	0	1	0000
288	B44S711RD	8-A-48	0	0	1	2133	0	0	1	0000
289	B44S711RV	8-A-49	0	0	0	1398	0	0	1	0000
290	B48S10F1RH	8-A-50	0	0	1	1152	0	0	1	0000
291	B48S10F1RD	8-A-51	0	0	1	0888	0	0	1	0000
292	B48S10F1RV	8-A-52	0	0	0	10000	0	0	1	0000
293	B48S1211RH	8-A-53	0	0	1	0118	0	0	1	0000
294	B48S1211RD	8-A-54	0	0	1	2512	0	0	1	0000
295	B48S1211RV	8-A-55	0	0	0	10000	0	0	1	0000
296	H48152CP(C)	8-A-56	16	-5	9	8428	4	-3	2	5110
297	B48S13MMS(C)	8-A-57	0	0	1	1543	0	0	1	0000
298	B56S511P(C)	8-A-58	0	0	0	2477	0	0	1	0000
299	B56P8MMS(C)	8-A-59	0	0	1	1339	3	-4	3	3335
300	B40P11DK	8-A-60	0	0	1	2025	0	0	1	0000

TABLE B.1 (Continued)

CAGE NUMBER	CAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
301	M30 4P10W	8-B-1	-1	0	1	2775	-1	0	1	2407
302	M30 4P10 SP	8-B-2	-2	0	1	5782	0	0	0	1 0000
303	M30 4P11W	8-B-3	0	0	2	2300	-1	0	1	4375
304	M30 4P11 SP	8-B-4	0	0	1	2571	0	0	0	1407
305	M30 4P12W	8-B-5	0	0	1	2574	0	0	1	1642
306	M30 4P13W	8-B-6	1	0	1	4441	0	0	1	2559
307	M31 2P10W	8-B-7	0	0	1	2078	0	0	0	1 0000
308	M31 2P10 SPRL	8-B-8	0	0	1	2571	0	0	0	0000
309	M31 2P10 SPRD	8-B-9	1	0	1	4314	0	0	0	2567
310	M31 2P10 SPRH	8-B-10	1	0	1	1397	0	0	1	0260
311	M31 2P11W	8-B-11	1	0	1	4067	-1	1	1	2202
312	M31 2P11 SP	8-B-12	0	0	1	1207	0	-1	1	1272
313	M31 2P12W	8-B-13	0	0	1	5997	-1	0	1	0781
314	M31 2P13W	8-B-14	0	0	1	0458	0	1	1	4189
315	M31 2P14W	8-B-15	-1	-1	1	4096	0	0	0	1 0000
316	B40P8MRRH(8B)	8-B-16	0	-2	1	9191	0	0	1	1474
317	B32P10MMP	8-B-17	-1	0	1	3414	0	0	0	0635
318	B40P8MRRD(8B)	8-B-18	-1	0	1	2879	0	0	0	1369
319	B32P10 SMPP	8-B-19	0	0	0	1 0000	0	0	0	1 0000
320	B40P8MRRV(8B)	8-B-20	0	0	0	0785	-1	0	1	2059
321	M31 8P11 2PRH	8-B-21	0	0	1	6102	0	0	0	1 0000
322	M31 8P11 2PRD	8-B-22	0	0	1	3647	0	0	1	1898
323	M31 8P11 2PRL	8-B-23	0	0	0	4181	0	0	1	0534
324	M31 8P11 5P	8-B-24	0	0	0	1 0000	0	0	0	1 0000
325	M31 8P12W	8-B-25	0	0	0	1 0000	0	0	0	1 0000
326	M31 8P13W	8-B-26	-1	0	1	3847	0	0	0	0567
327	M31 8P14W	8-B-27	0	0	0	1 0000	0	0	0	1 0000
328	M32 4P10W	8-B-28	0	0	1	5324	0	-1	1	8185
329	M32 4P10 5P	8-B-29	0	0	0	0785	0	0	0	1 0000
330	M32 4P10 7P	8-B-30	0	0	0	0785	0	0	0	1 0000
331	M32 4P11 1P	8-B-31	0	0	0	0785	0	0	1	1356
332	M32 4P11 3P	8-B-32	0	0	0	1 0000	0	0	0	1 0000
333	M32 4P11 SPRH	8-B-33	0	0	1	6225	0	0	1	1907
334	M32 4P11 SPRD	8-B-34	0	0	0	0955	0	0	0	1 0000
335	M32 4P11 SPR1	8-B-35	0	0	1	2569	0	0	0	1 0000
336	M32 4P12W	8-B-36	0	0	0	2467	0	0	0	1 0000
337	M32 4P13W	8-B-37	0	0	1	2833	0	0	1	2445
338	M32 4P14W	8-B-38	0	0	0	1 0000	0	0	1	2199
339	M31 2511W	8-B-39	-1	0	1	5451	-1	1	1	1940
340	M31 2512W	8-B-40	0	0	1	1467	0	0	1	2394
341	M31 2513W	8-B-41	0	0	1	4061	0	-1	1	1349
342	M31 2514W	8-B-42	0	0	1	0835	0	0	0	1 0000
343	M31 8511W	8-B-43	0	0	1	1207	0	0	0	1 0000
344	M31 8511 2PRL	8-B-44	0	0	1	2550	0	0	1	1531
345	M31 8511 2PRD	8-B-45	1	0	1	6105	-1	1	1	2897
346	M31 8511 2PRH	8-B-46	0	0	1	2494	0	0	0	1 0000
347	M31 8512W	8-B-47	0	0	1	2418	0	0	0	1 0000
348	M31 8513W	8-B-48	0	0	1	3801	0	0	1	1802
349	M31 8514W	8-B-49	0	0	1	1595	0	0	0	1 0000
350	M32 6510W	8-B-50	0	0	1	1229	0	0	0	2257
351	M32 6510 7P	8-B-51	0	0	1	2492	0	0	0	1 0000
352	M32 6511 3P	8-B-52	0	0	0	1 0000	0	0	0	1 0000
353	M32 6512W	8-B-53	0	0	1	2191	0	0	0	2099
354	M32 6513W	8-B-54	-1	0	1	1942	-1	1	1	1048
355	M32 6514W	8-B-55	0	0	0	1 0000	0	0	0	1 0000
356	H24 1517 SP(HSL)	8-B-56	0	-1	1	6554	4	-2	2	5226
357	H24 1517 SP(HSU)	8-B-57	-1	0	1	2739	-1	-1	1	3548
358	H24 2520 SP(HSL)	8-B-58	0	0	1	1987	3	0	2	7858
359	H24 2520 SP(HSU)	8-B-59	0	0	1	2478	-2	0	1	5827
360	H52P227(D)	8-B-60	0	0	1	2462	0	1	1	2982
361	M21P13 SP	7- -1	0	0	0	1 0000	15	31	3	9916
362	M21P12W	7- -2	-6	6	13	6379	29	-2	23	5600
363	M21P8W	7- -3	-206	17	4	9993	16	-50	9	9005
364	M21P2W	7- -4	-200	13	3	9996	16	-32	4	9493
365	M21C0W	7- -5	0	0	0	1 0000	0	0	0	1 0000
366	M21S2W	7- -6	-192	-8	29	9413	-39	27	22	5676
367	M21S4W	7- -7	-241	16	2	9989	19	34	4	9890
368	M21S6W	7- -8	-186	10	3	9994	6	73	2	9883
369	M21S8W	7- -9	-191	7	8	9962	-1	81	4	9947
370	M21S10W	7- -10	-158	13	3	9993	15	86	3	9975
371	M21S11 SP	7- -11	-147	4	4	9987	-2	79	3	9962
372	M21S12W	7- -12	-93	8	2	9995	7	86	2	9994
373	M21S12 SP	7- -13	-75	17	3	9988	21	72	4	9961
374	M21S13W	7- -14	-110	12	3	9988	14	86	3	9980
375	M21S13 SP	7- -15	-47	8	4	9929	6	100	4	9974

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
376	H16 2515P CU	7-A-16	-134	8	3	9989	10	50	3	9946
377	H21CDA	7-A-17	170	19	7	9934	16	4	7	8529
378	H2152A	7-A-18	169	10	8	9933	6	26	7	9113
379	H2192W	7-A-19	17	0	6	9972	-15	-25	4	9733
380	H2155W	7-A-20	147	6	2	9995	5	29	2	9937
381	H2157W	7-A-21	103	7	2	9987	3	39	2	9933
382	H2197W	7-A-22	79	16	8	9522	14	-30	11	6794
383	H2159W	7-A-23	67	4	1	9529	2	51	1	9984
384	H21511W	7-A-24	132	3	1	9998	-5	85	2	9989
385	H21911W	7-A-25	74	11	2	9954	9	-56	3	9929
386	H21513A	7-A-26	60	0	3	9952	-5	63	4	9227
387	H21513 SP	7-A-27	7	3	2	7446	-7	77	4	9934
388	H21913 SP	7-A-28	-15	5	2	9995	4	-84	2	9990
389	H21514A	7-A-29	-22	40	37	8014	-62	135	52	2416
390	H21516A	7-A-30	-78	7	2	9991	5	80	2	9990
391	H21518A	7-A-31	-115	3	2	9994	1	-78	1	9993
392	H21519A	7-A-32	66	-1	3	9959	-2	56	4	9902
393	H21518A	7-A-33	-172	-1	23	9596	-10	-83	4	9935
394	T337DA	7-A-34	-42	-2	4	9680	-18	-11	4	9237
395	T335DA	7-A-35	32	8	13	6146	-20	-20	23	2365
396	T337DA	7-A-36	26	28	47	5429	-45	-18	45	5616
397	T339DA	7-A-37	22	-2	45	0915	27	28	76	2331
398	T412DA	7-A-38	-37	-7	25	3728	-11	15	21	0613
399	T432DA	7-A-39	15	8	1	9974	5	-11	2	8073
400	T452DA	7-A-40	15	5	2	9977	-3	1	1	6298
401	T472DA	7-A-41	-18	4	2	9878	4	0	2	7152
402	T332DA	7-A-42	-38	3	3	9862	-2	-2	2	7644
403	T352DA	7-A-43	-50	6	2	9985	4	3	2	9075
404	T332DA	7-A-44	122	3	2	9996	-5	-2	1	9149
405	T392DA	7-A-45	-178	5	2	9997	7	1	2	8966
406	T412DA	7-A-46	-224	4	2	9997	0	0	0	1 0000
407	T432DA	7-A-47	-281	5	3	9997	-2	-4	2	8466
408	T452DA	7-A-48	-31	7	3	9999	0	-4	2	7293
409	T472DA	7-A-49	-440	6	20	9956	-3	19	29	0553
410	M332DA	7-A-50	-284	12	16	9936	13	12	11	7105
411	M352DA	7-A-51	-402	5	2	9988	0	7	7	3426
412	M372DA	7-A-52	0	0	0	1 0000	0	0	0	1 0000
413	M392DA	7-A-53	0	0	0	1 0000	0	0	0	1 0000
414	M412DA	7-A-54	0	0	0	1 0000	0	0	0	1 0000
415	M432DA	7-A-55	0	0	0	1 0000	0	0	0	1 0000
416	M452DA	7-A-56	0	0	0	1 0000	0	0	0	1 0000
417	M472DA	7-A-57	0	0	0	1 0000	0	0	0	1 0000
418	B4052MMW CI	7-A-58	0	0	0	1 0000	0	0	0	1 0000
419	B40512MMP CI	7-A-59	0	0	0	1 0000	0	0	0	1 0000
420	B4069 2INDBI	7-A-60	0	0	0	1 0000	0	0	0	1 0000
421	F412COP	7-A-1	248	11	11	9942	4	-9	7	1603
422	F432COP	7-A-2	380	3	9	9987	18	-9	9	8611
423	F452COP	7-A-3	408	16	11	9981	24	-2	8	8646
424	F453COP	7-A-4	377	11	4	9997	15	1	6	8299
425	F433COP	7-A-5	-27	13	3	9956	14	2	3	9517
426	F472COP	7-A-6	-17	10	2	9952	7	0	2	8573
427	F412COP	7-A-7	-13	15	4	9895	11	3	11	5125
428	F453COP	7-A-8	-9	9	2	9942	10	0	3	9016
429	H33COP	7-A-9	605	4	5	9998	1	-6	6	2043
430	H35COP	7-A-10	0	0	0	1 0000	0	0	0	1 0000
431	H37COP	7-A-11	555	5	4	9996	-4	8	8	2219
432	H39COP	7-A-12	607	9	12	9990	5	5	5	6845
433	H41COP	7-A-13	667	12	9	9996	18	2	11	6819
434	H43COP	7-A-14	0	0	0	1 0000	0	0	0	1 0000
435	H45COP	7-A-15	0	0	0	1 0000	0	0	0	1 0000
436	H21COP	7-A-16	0	0	0	1 0000	0	0	0	1 0000
437	M33511 1P	7-A-17	-318	13	6	9992	13	143	4	9984
438	M33911 1P	7-A-18	-269	21	14	9958	17	-117	15	9566
439	M35511 1P	7-A-19	-360	-5	8	9989	-10	162	8	9934
440	M37511 1P	7-A-20	-344	1	17	9941	16	174	20	9736
441	M37911 1P	7-A-21	-399	-2	22	9929	-9	-160	35	9112
442	M39511 1P	7-A-22	-46	-36	35	7319	-29	91	275	2257
443	M41511 1P	7-A-23	-356	3	3	9999	-1	157	3	9991
444	M41911 1P	7-A-24	-449	13	10	9999	-5	-164	7	9997
445	M43511 1P	7-A-25	366	12	2	9999	15	192	2	9997
446	M45511 1P	7-A-26	-380	6	3	9999	-1	213	3	9995
447	M45911 1P	7-A-27	-480	3	3	9999	1	-241	2	9999
448	M47911 1P	7-A-28	207	11	5	9991	-4	204	2	9997
449	M33514P	7-A-29	-378	6	28	9901	78	139	93	7291
450	M33914P	7-A-30	0	0	0	1 0000	0	0	0	1 0000

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
451	M35514P	7-A-31	-356	5	5	.9996	12	231	7	.9982
452	M37514P	7-A-32	-356	0	5	.9996	-8	227	9	.9958
453	M37P14P	7-A-33	0	0	0	1.0000	13	-249	5	.9989
454	M39514P	7-A-34	-300	-9	29	.9757	-46	254	103	.6886
455	M41514P	7-A-35	-267	-84	128	.5557	14	122	334	.1684
456	M41P14P	7-A-36	-276	1	21	.9869	8	-122	71	.5775
457	M43514P	7-A-37	-163	-81	199	.3084	-335	22	294	.5017
458	M45514P	7-A-38	-374	-7	12	.9975	-42	278	22	.9822
459	M45P14P	7-A-39	0	0	0	1.0000	0	0	0	1.0000
460	M47514P	7-A-40	-404	8	14	.9973	6	286	9	.9976
461	W32 15M20 1RV	7-A-41	-149	8	36	.8620	5	-58	4	.9659
462	W32 15M20 1RD	7-A-42	-714	10	10	.9996	-1	129	4	.9979
463	W32 15M20 1RL	7-A-43	-407	-7	14	.9971	6	147	2	.9997
464	W32 15Z20 1P	7-A-44	16	-12	34	.5271	0	-36	17	.6967
465	W355M20 5P	7-A-45	-414	1	8	.9991	14	175	4	.9989
466	W355M22W	7-A-46	-303	-4	6	.9991	-2	78	9	.9703
467	W355ZM3 9P	7-A-47	-357	7	5	.9996	-5	62	4	.9914
468	W355ZT0 1P	7-A-48	-291	10	4	.9996	4	55	3	.9937
469	W355ZT2W	7-A-49	-108	-5	22	.9033	3	22	21	.4280
470	W355ZT3 9P	7-A-50	-121	10	4	.9980	4	13	6	.8066
471	M49 559P(1FO)	7-A-51	-348	12	18	.9950	10	150	17	.9737
472	M49 559P(1AO)	7-A-52	-382	7	13	.9976	2	166	8	.9951
473	B4852MMW(C)	7-A-53	-127	10	14	.9818	6	14	5	.8914
474	B56510 1MMP(C)	7-A-54	-77	7	15	.9435	1	27	12	.7102
475	B4053MMS(BM)	7-A-55	-27	-12	14	.5764	3	-17	5	.8068
476	B4053MMP(BM)	7-A-56	-149	6	3	.9991	6	6	3	.8455
477	B4053MZ5	7-A-57	-103	5	4	.9966	3	1	2	.7014
478	B4053MZP	7-A-58	-97	0	7	.9892	3	-1	3	.5359
479	B4855MMP	7-A-59	-102	1	8	.9854	9	12	3	.9443
480	M44519(D)	7-A-60	-80	7	3	.9982	4	7	3	.8520
481	T49P10W	7-B-1	-219	10	9	.9983	12	-86	7	.9791
482	T49P6W	7-B-2	-87	10	12	.9728	10	-25	5	.8718
483	T49CDW	7-B-3	-8	17	9	.9508	26	4	6	.9422
484	T49S2W	7-B-4	-23	11	4	.9884	11	14	4	.9353
485	T49S4W	7-B-5	-16	12	4	.9849	14	18	3	.9786
486	T49S6W	7-B-6	-67	7	2	.9940	0	0	0	1.0000
487	T49S8W	7-B-7	-182	12	6	.9882	10	57	7	.9727
488	T49S10W	7-B-8	-304	6	3	.9997	5	88	3	.9973
489	T49S10 5P	7-B-9	-414	2	6	.9996	4	108	5	.9946
490	T49S10 9P	7-B-10	-465	8	10	.9990	15	125	3	.9986
491	Z49P10W	7-B-11	-541	2	6	.9997	-1	-160	7	.9956
492	Z49P6W	7-B-12	-376	9	2	.9999	4	-103	4	.9960
493	Z49CDW	7-B-13	0	0	0	1.0000	0	0	0	1.0000
494	Z49S2W	7-B-14	-412	7	4	.9988	10	23	4	.9712
495	Z49S4W	7-B-15	-473	9	4	.9989	1	65	3	.9963
496	Z49S6W	7-B-16	-544	11	6	.9998	10	88	5	.9947
497	Z49S8W	7-B-17	-306	14	2	.9999	10	83	2	.9989
498	Z49S10W	7-B-18	-469	6	2	.9999	5	164	2	.9998
499	Z49S10 5P	7-B-19	-488	0	5	.9997	-10	179	4	.9988
500	Z49S10 9P	7-B-20	-486	0	5	.9996	0	184	3	.9994
501	W495M22W	7-B-21	-152	2	5	.9976	3	132	2	.9996
502	W495ZM3 9P	7-B-22	-517	-2	11	.9988	10	181	10	.9934
503	W495M20 1RL	7-B-23	-376	7	2	.9999	4	220	1	.9999
504	W495M20 1RD	7-B-24	-412	12	7	.9994	-5	116	2	.9989
505	W495M20 1RV	7-B-25	306	7	6	.9991	12	-101	4	.9946
506	W495ZT2W	7-B-26	-466	0	4	.9999	-9	129	2	.9993
507	W495ZT3 9P	7-B-27	-455	5	6	.9997	0	119	2	.9995
508	W495ZT0 1RL	7-B-28	-472	-2	5	.9997	-2	174	1	.9998
509	W495ZT0 1RD	7-B-29	42	10	8	.8611	17	24	3	.9689
510	W495ZT0 1RV	7-B-30	171	9	3	.9988	5	-9	2	.7807
511	M49P14W	7-B-31	0	0	0	1.0000	0	0	0	1.0000
512	M49P13W	7-B-32	-436	-8	8	.9993	2	-155	18	.9700
513	M49P11 1P	7-B-33	-394	13	6	.9996	5	-215	12	.9928
514	M49P10W	7-B-34	-356	0	6	.9994	-13	-199	5	.9988
515	M49P6W	7-B-35	-353	8	31	.9824	0	-120	19	.9442
516	M49P2W	7-B-36	-438	16	9	.9992	14	-40	7	.8814
517	M49CDW	7-B-37	-345	1	5	.9994	-13	2	4	.8479
518	M49S2W	7-B-38	-503	9	8	.9994	-3	38	3	.9820
519	M49S4W	7-B-39	-479	11	10	.9991	4	84	3	.9960
520	M49S6W	7-B-40	-384	9	4	.9998	-3	108	3	.9984
521	M49S8W	7-B-41	-366	10	5	.9996	6	167	3	.9993
522	M49S9 5P	7-B-42	-376	5	5	.9996	0	184	2	.9998
523	M49S10W	7-B-43	-357	10	5	.9996	7	199	2	.9996
524	M49S10 5P	7-B-44	-388	3	5	.9997	-3	209	5	.9985
525	M49S10 9P	7-B-45	-374	9	3	.9999	11	225	2	.9999

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF DRIFT	CORRELATION COEFFICIENT		
526	H49512W	7-B-46	-379	4	5	9995	-1	252	4	9995
527	H49512 SP	7-B-47	-370	8	4	9997	1	240	2	9998
528	H49513W	7-B-48	-416	9	7	9995	6	284	3	9998
529	H49513 SP	7-B-49	0	0	0	1.0000	0	0	0	1.0000
530	H49514W	7-B-50	-384	11	4	9997	18	291	6	9990
531	H49511 1P	7-B-51	-388	2	13	9976	12	213	22	9779
532	B48COMMS(C)	7-B-52	-180	5	29	9499	-2	-1	27	2482
533	Z3853 SP(C)	7-B-53	-248	9	4	9495	6	-4	4	9697
534	Z3353 SP(C)	7-B-54	-176	5	4	9987	16	-27	8	7440
535	Z3353 SP(C)	7-B-55	-176	-1	4	9986	-2	-16	5	8797
536	Z43P3 SP(CO)	7-B-56	-321	7	2	9999	6	-41	3	9855
537	Z43P3 SP(CI)	7-B-57	-294	6	2	9999	3	-40	2	9937
538	Z53P3 SP(CI)	7-B-58	-403	2	5	9996	1	-60	2	9866
539	Z53P3 SP(CO)	7-B-59	-442	5	2	9999	7	-60	3	9934
540	H52518(CI)	7-B-60	-169	9	2	9997	6	-19	3	9096
541	H16 Z515P(CI)	6--1	0	0	0	1.0000	0	0	0	1.0000
542	H49P3W	6--2	616	10	2	9999	10	-64	3	9944
543	H49P7W	6--3	502	11	4	9998	11	-141	4	9976
544	H49P10W	6--4	370	7	5	9995	5	-205	3	9993
545	H49P12W	6--5	290	11	8	9976	5	-233	5	9987
546	H49P15 SP	6--6	6	14	2	9957	18	-262	3	9995
547	H49P18W	6--7	1	0	1	2821	0	0	0	1.0000
548	H4951W	6--8	690	9	2	9999	13	26	2	9954
549	H4953W	6--9	603	7	2	9999	8	61	1	9993
550	H4955W	6--10	546	11	2	9999	-18	100	2	9990
551	H4957W	6--11	532	-4	5	9998	-10	146	6	9995
552	H4959W	6--12	447	-3	2	9999	-7	191	2	9996
553	H49510W	6--13	377	14	3	9998	20	205	2	9992
554	H49511W	6--14	328	8	2	9999	11	214	2	9993
555	H49512W	6--15	284	8	2	9998	13	232	2	9998
556	H49513W	6--16	196	10	2	9997	12	247	2	9993
557	H49515 SP	6--17	-10	9	3	9839	6	267	4	9986
558	H49516W	6--18	-90	6	10	9781	-5	213	45	9052
559	H49518W	6--19	0	0	0	1.0000	0	0	0	1.0000
560	H49519W	6--20	-359	13	3	9999	12	305	2	9999
561	H49511 SP	6--21	276	12	2	9999	18	224	2	9996
562	H49516 SP	6--22	-33	10	5	9845	20	238	4	9998
563	T46510 9P	6--23	-346	16	6	9995	22	99	3	9986
564	T4657W	6--24	-140	9	2	9997	9	44	12	9977
565	T39510 9P	6--25	-295	9	1	9999	11	75	2	9989
566	T3957W	6--26	-228	0	0	1.0000	0	0	0	1.0000
567	T36510 9P	6--27	-185	14	3	9997	12	45	2	9957
568	T3657W	6--28	-49	11	2	9984	13	33	2	9951
569	M4658A	6--29	-371	15	3	9999	12	134	2	9996
570	M4354W	6--30	-371	12	2	9999	8	133	2	9997
571	M4358W	6--31	-338	12	3	9999	10	60	1	9992
572	M3957A	6--32	0	0	0	1.0000	12	97	2	9992
573	M3958A	6--33	-323	19	10	9981	17	121	6	9929
574	M30511W	6--34	-219	18	29	9738	2	142	18	9666
575	M3058W	6--35	-301	-3	56	5243	-81	99	114	1808
576	M37511W	6--36	180	-16	102	6915	74	-115	190	1528
577	M2758W	6--37	-224	13	47	9271	-75	48	141	1151
578	H55113W	6--38	0	0	0	1.0000	0	0	0	1.0000
579	H55P16 SP	6--39	-64	15	4	9968	18	-20	4	8965
580	H54P7W	6--40	23	14	4	9914	18	329	5	9984
581	H54P10 SP	6--41	-263	-32	55	8612	5	-29	14	6224
582	H54P7W	6--42	-29	6	6	9557	2	14	6	7589
583	H54P10 SP	6--43	-157	13	17	9822	-3	63	21	7291
584	H4958 SP	6--44	371	8	3	9998	1	165	4	9984
585	H4950P	6--45	0	0	0	1.0000	0	0	0	1.0000
586	H57 OP	6--46	821	9	7	9998	23	-3	6	8857
587	H57513W	6--47	0	0	0	1.0000	11	262	2	9997
588	H5520P	6--48	0	0	0	1.0000	4	-22	23	4281
589	H53 OP	6--49	0	0	0	1.0000	0	0	0	1.0000
590	H53P13W	6--50	316	9	2	9999	12	-253	2	9998
591	H51011W	6--51	338	9	26	9848	15	250	13	9944
592	H51011W	6--52	0	0	0	1.0000	0	0	0	1.0000
593	H51514P	6--53	-384	12	6	7996	4	294	2	9997
594	H51510P	6--54	785	-12	29	9884	1	8	14	1227
595	H57 OP	6--55	0	0	0	1.0000	14	-1	3	9122
596	F49COW	6--56	13	12	2	9965	14	1	3	9485
597	F52 COW	6--57	0	18	3	9915	17	4	4	9409
598	F57COW	6--58	0	0	0	1.0000	0	0	0	1.0000
599	H54 8521P(CI)	6--59	-375	10	6	9995	14	285	13	9942
600	H20513 4P(D)	6--60	1	11	2	9947	13	0	2	9610

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
601	T51COW	6-A-1	0	0	0	1.0000	0	0	0	1.0000
602	T53COW	6-A-2	-9	12	3	.9915	17	4	5	.9178
603	T54COW	6-A-3	-49	-13	30	.4338	-22	-3	20	.5220
604	T55COW	6-A-4	32	9	35	.1628	-52	-7	74	.3378
605	260S10 9P	6-A-5	-1540	-57	41	.9958	1	409	6	.9995
606	260S6W	6-A-6	-897	18	11	.9997	-1	133	30	.8980
607	260COW	6-A-7	-1	0	1	.3483	0	0	1	.0426
608	259S10 9P	6-A-8	-1224	-33	39	.9974	15	328	4	.9996
609	259COW	6-A-9	-672	9	5	.9999	7	3	7	.4442
610	258S10 9P	6-A-10	-943	-41	46	.9933	18	261	4	.9995
611	258S6W	6-A-11	-611	6	5	.9992	-8	112	5	.9949
612	258COW	6-A-12	-639	-7	14	.9988	-29	-8	53	.2676
613	257COW	6-A-13	-630	22	5	.9999	21	-1	5	.9163
614	257S10 9P	6-A-14	-636	-53	56	.9748	8	198	5	.9986
615	256 2P10 9P	6-A-15	-717	-1	8	.9997	-5	-226	14	.5913
616	256 2COW	6-A-16	-656	16	7	.9998	-6	122	5	.9964
617	256 2P6W	6-A-17	-640	11	5	.9999	4	-6	2	.7432
618	256 256W	6-A-18	-675	14	5	.9999	13	131	2	.9993
619	256 2510 9P	6-A-19	-829	-3	4	.9999	-2	350	62	.9337
620	255COW	6-A-20	-585	14	10	.9994	8	3	6	.6397
621	255S10 9P	6-A-21	-759	9	5	.9995	19	216	5	.9989
622	254COW	6-A-22	-588	14	4	.9999	19	2	3	.9650
623	255S6W	6-A-23	-628	21	3	.9999	22	140	4	.9889
624	254S10 9P	6-A-24	-727	7	7	.9998	11	220	3	.9997
625	253COW	6-A-25	-551	11	5	.9998	9	-1	3	.8634
626	251COW	6-A-26	0	0	0	1.0000	0	0	0	1.0000
627	M51COW	6-A-27	0	0	0	1.0000	0	0	0	1.0000
628	M51S11 1P	6-A-28	-393	10	2	.9999	14	230	3	.9997
629	149COP	6-A-29	411	12	4	.9998	13	-3	3	.8806
630	M53COW	6-A-30	0	0	0	1.0000	0	0	0	1.0000
631	M53S11 1P	6-A-31	-355	11	2	.9999	12	231	2	.9998
632	M53S14P	6-A-32	-427	12	3	.9999	16	303	3	.9996
633	M53P11 1P	6-A-33	-396	14	5	.9997	12	-224	5	.9989
634	M53P14	6-A-34	0	0	0	1.0000	11	-294	8	.9981
635	M55COW	6-A-35	-391	11	41	.9779	18	8	34	.0898
636	M55S11 1P	6-A-36	344	-8	22	.9913	-1	-237	17	.9684
637	M55S14P	6-A-37	-490	9	26	.9940	0	331	15	.9953
638	M57COW	6-A-38	-433	9	15	.9973	0	0	0	1.0000
639	M57S11 1P	6-A-39	-468	22	3	.9999	20	331	5	.9995
640	M57S14P	6-A-40	-326	16	3	.9998	17	230	5	.9992
641	M57P14	6-A-41	0	0	0	1.0000	0	0	0	1.0000
642	M57P11 1P	6-A-42	-499	11	4	.9999	-6	-326	5	.9995
643	M59COW	6-A-43	0	0	0	1.0000	0	0	0	1.0000
644	M59S14P	6-A-44	-441	8	3	.9999	-1	315	4	.9997
645	M59S11 1P	6-A-45	-344	1	2	.9997	-32	230	25	.9688
646	W55 95M20 1RV	6-A-46	-140	12	26	.9503	20	222	24	.9777
647	W55 95M20 1RD	6-A-47	126	8	25	.8995	4	259	18	.5898
648	W55 95M20 1RL	6-A-48	-313	-8	28	.9792	-5	160	22	.9569
649	W55 95T20 1RV	6-A-49	210	19	9	.9933	7	-69	9	.9515
650	W55 95T20 1RD	6-A-50	-211	13	34	.9560	3	11	5	.7711
651	W55 95T20 1RL	6-A-51	-756	2	20	.9983	7	285	45	.9489
652	W55 95ZM3 9RV	6-A-52	225	16	23	.9670	7	-60	7	.9609
653	W55 95ZM3 9RD	6-A-53	-326	15	12	.9977	7	103	6	.9953
654	W55 95ZM3 9RL	6-A-54	-792	6	6	.9999	13	234	5	.9989
655	W56 15ZM3 9RL	6-A-55	-4	-4	19	.0900	-2	-1	5	.1850
656	W56 15ZM3 9RD	6-A-56	14	-2	18	.4191	10	9	8	.7387
657	W56 15ZM3 9RV	6-A-57	-98	13	29	.8984	24	-3	18	.5576
658	H58 3P20P	6-A-58	203	18	4	.9986	23	-297	6	.9989
659	RESISTOR	6-A-59	-3	1	4	.4787	-8	3	7	.4178
660	W52S2M2(D)	6-A-60	-2	11	5	.9549	14	-4	5	.7993
661	B56C077P	6-B-1	0	0	0	1.0000	0	0	0	1.0000
662	B56C077S	6-B-2	-444	16	8	.9994	9	-18	6	.7103
663	B56P477P	6-B-3	-31	14	17	.8803	-9	-72	15	.9231
664	B56P477S	6-B-4	-389	8	13	.9978	-2	-105	10	.8820
665	B56P877P	6-B-5	-202	9	61	.8994	-5	-151	39	.8765
666	B56P877S	6-B-6	-174	12	11	.9936	10	-30	8	.9026
667	B56C027P	6-B-7	-1	0	1	.1508	0	0	1	.0892
668	B56C027S	6-B-8	-90	15	7	.9938	12	-1	7	.8760
669	B56P427P	6-B-9	-197	9	32	.9533	-5	-121	21	.9409
670	B56P427S	6-B-10	-17	17	8	.9853	14	-26	4	.8908
671	B56P827P	6-B-11	-180	-2	48	.8883	-1	-121	31	.8777
672	B56P827S	6-B-12	-109	2	17	.9800	-5	-68	10	.9569
673	B56C0M2P	6-B-13	-131	18	27	.9477	22	-35	8	.9022
674	B56C0M2S	6-B-14	-79	12	24	.9012	5	-29	3	.9823
675	B56C0M2P	6-B-15	-42	13	18	.8878	2	-29	14	.6522

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
676	B56COMFS	6-B-15	-9	11	9	8984	4	-5	4	3202
677	B56P2MFP	6-B-17	-27	9	8	9448	5	-24	3	9454
678	B56P8MFS	6-B-18	5	16	40	4258	17	-89	18	8903
679	B56CDFIP	6-B-19	-45	9	13	9206	10	-74	62	4981
680	B56CDFIS	6-B-20	-87	11	5	9958	14	-6	3	9092
681	B56P6FJP	6-B-21	31	13	14	8725	19	-27	4	9026
682	B56P4FIS	6-B-22	36	12	7	8768	20	-17	4	9118
683	B56S4TTP	6-B-23	-102	27	31	9308	34	41	14	9260
684	B56S4TTS	6-B-24	-311	11	11	9976	19	-78	17	9370
685	B16P211WIC)	6-B-25	-25	7	16	7643	10	11	4	9386
686	B56S8TTS	6-B-26	0	0	0	1 0000	0	0	0	1 0000
687	B56S4ZTP	6-B-27	-142	19	29	9431	21	35	6	9551
688	B56S4ZTS	6-B-28	-140	14	14	9862	21	50	15	9066
689	B56S8ZTP	6-B-29	-97	8	30	8747	19	64	9	9721
690	B56S8ZTS	6-B-30	-41	11	10	9552	10	33	3	9856
691	B56S8MFP	6-B-31	-55	6	4	9917	0	0	0	1 0000
692	B56S8MFS	6-B-32	49	20	40	3876	19	37	9	9451
693	B56S8FIF	6-B-33	37	13	16	6007	22	4	3	9820
694	B56S6FIS	6-B-34	-46	7	5	9496	15	9	4	9376
695	B56CCHHRH	6-B-35	-192	15	8	9968	12	6	10	6560
696	B56CCHHRD	6-B-36	139	-9	10	9918	3	-17	5	7779
697	B56CCHHRV	6-B-37	82	13	20	8127	13	10	11	7044
698	B56P711FRV	6-B-38	73	9	22	7578	0	0	0	1 0000
699	B56P711FRD	6-B-39	76	12	8	9536	2	0	9	2038
700	B56P711FRH	6-B-40	141	14	13	9696	26	-27	8	7843
701	B56P711FRV	6-B-41	14	6	12	3883	12	11	6	8718
702	B56P711FRD	6-B-42	-260	11	12	9978	7	65	4	9911
703	B56P711FRH	6-B-43	-30	16	6	9876	25	3	7	9126
704	B56P711FRV	6-B-44	13	4	8	4229	1	31	2	9971
705	B56P711FRD	6-B-45	-150	5	7	9952	-2	63	16	9805
706	B56P711FRH	6-B-46	7	15	4	9755	22	-58	14	8200
707	B56S711FRH	6-B-47	64	7	6	9671	8	0	4	7371
708	B56S711FRD	6-B-48	-84	-15	41	5353	-3	4	27	2519
709	B56S711FRV	6-B-49	45	11	17	6194	13	9	9	7763
710	B56S711FRH	6-B-50	202	10	8	9960	7	53	8	6564
711	B56S711FRD	6-B-51	392	11	19	9939	15	56	10	9531
712	B56S711FRV	6-B-52	-63	13	7	9868	13	-25	3	9295
713	B56S711FRH	6-B-53	-9	8	4	9563	2	118	22	9319
714	B56S711FRD	6-B-54	8	10	8	8421	9	-29	4	9384
715	B56S711FRV	6-B-55	-193	8	10	9949	8	-59	8	9449
716	M36S4PTIC	6-B-56	48	13	4	9667	11	2	5	8218
717	M36S4PTIC	6-B-57	-612	23	6	9996	17	81	5	9940
718	M321SP1C	6-B-58	-344	10	9	9986	20	185	6	9983
719	M321SP1C	6-B-59	-369	14	4	9998	30	1	7	9285
720	RES15TDR	6-B-60	103	12	6	9884	10	25	6	8973
721	APMM36C1PA	5-B-1	-199	14	22	9794	-36	176	102	5299
722	APMM36C2PA	5-B-2	-896	6	40	9954	-18	-17	11	8261
723	APMM36C3PA	5-B-3	-985	9	19	9992	-1	-219	14	9911
724	APMM36C4PA	5-B-4	-350	-26	17	9926	11	-149	4	9981
725	APMM36C5PA	5-B-5	-426	-1	29	9893	11	-140	16	9659
726	APMM36P3PA4	5-B-6	-404	4	6	9995	10	-180	2	9995
727	APMM36C1PF	5-B-7	-357	6	6	9995	1	-214	6	9984
728	APMM36C2PF	5-B-8	-407	11	4	9998	15	-251	5	9992
729	APMM36C3PF	5-B-9	-719	0	8	9997	-19	-504	7	9996
730	APMM36C4PF	5-B-10	-551	11	8	9995	20	-569	5	9998
731	APMM36C5PF	5-B-11	31	8	6	8457	10	-293	2	9998
732	APMM36P1PFC 5	5-B-12	-437	7	5	9997	11	-258	3	9997
733	APMM36P3PFO 5	5-B-13	-466	12	5	9998	14	-273	4	9995
734	APMM36P5PFO 5	5-B-14	-614	7	4	9999	8	-360	3	9996
735	APMM36P1PFC	5-B-15	-679	12	5	9999	15	-438	5	9997
736	APMM36RDPF	5-B-16	-283	11	4	9995	12	-284	4	9996
737	APMM36RDPF	5-B-17	326	17	12	9958	11	-4	20	0548
738	APMM36P3PFC	5-B-18	-645	6	35	9865	9	-231	19	9832
739	APMM36P3PFC	5-B-19	-428	1	13	9980	4	-216	5	9985
740	M35 3P11 1P	5-B-20	-394	6	6	9994	14	-199	4	9990
741	M35 3P11 5P	5-B-21	-417	18	28	9928	11	-178	7	9964
742	M35 3P12P	5-B-22	-278	1	30	9738	-24	-201	77	9957
743	M36 4P11 7P	5-B-23	-204	12	3	9996	9	-199	1	9999
744	APM733C315	5-B-24	23	15	5	9890	9	-16	2	9070
745	APM733C308	5-B-25	260	-4	8	9979	11	33	3	9897
746	APM733C30CIRI	5-B-26	2	-3	2	9051	-10	2	8	9994
747	APM733C293	5-B-27	-731	29	22	9983	13	-126	3	9980
748	APM733RYMH	5-B-28	11	-7	13	4841	0	26	1	9988
749	APM733RDMH	5-B-29	1	0	2	2084	0	0	0	1 0000
750	APM733RLMH	5-B-30	-225	13	4	9983	15	-108	4	9967

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY		
			SENSITIVITY/100% VERTICAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
751	APM233RLMA	5-A-31	0	0	1	0	0	1.0000
752	APM233RDMA	5-A-32	-672	22	14	1	-144	9997
753	APM233RYMA	5-A-33	-40	20	9	0	36	9344
754	AP2238C2PA	5-A-34	-1664	3	7	-14	-49	9631
755	AP2238C3PA	5-A-35	0	0	1.0000	0	0	1.0000
756	AP2238C4PA	5-A-36	0	0	1.0000	0	0	1.0000
757	AP2238P3PA 5	5-A-37	-659	9	7	8	-78	9951
758	AP2238P3PA2	5-A-38	-480	10	14	7	-102	9649
759	AP2238P3PA4	5-A-39	-396	8	8	9	-102	9990
760	AP2238RHPA	5-A-40	11	13	5	12	70	9580
761	AP2238RDPA	5-A-41	0	0	1.0000	0	0	1.0000
762	AP2238RLPA	5-A-42	-1155	8	5	-1	-121	9996
763	APM239C315	5-A-43	-635	4	11	18	-59	9757
764	APM239C308	5-A-44	-617	12	10	11	-62	9829
765	APM239C300	5-A-45	-600	21	22	7	-74	9906
766	APM242C293	5-A-46	-744	56	44	12	-110	9972
767	APM242C315	5-A-47	-639	7	8	20	-67	9666
768	APM242C308	5-A-48	-597	-14	11	5	-81	9970
769	APM242C300(R)	5-A-49	23	-10	44	-19	50	1481
770	APM242C293	5-A-50	-627	5	8	8	-123	9960
771	B16P3MRRH	5-A-51	82	10	11	7	39	9485
772	B16P3MRRD	5-A-52	125	12	19	12	12	6018
773	B16P3MRRV	5-A-53	10	-7	114	-40	-1	3303
774	H23P17MFP(U)	5-A-54	149	11	31	32	-143	8766
775	H23 9P16MFP(HSU)	5-A-55	478	13	6	10	-57	9752
776	H23 9P16MFP(HSL)	5-A-56	-536	11	7	3	-9	4669
777	B24P10 SMMRH	5-A-57	-6	9	4	6	19	9586
778	B24P10 SMMRD	5-A-58	144	16	7	15	16	9701
779	B24P10 SMMRV	5-A-59	124	8	13	3	15	7100
780	W36P2MZ(D)	5-A-60	-4	11	3	7	1	9278
781	APMM44C1PA	5-A-1	0	0	1.0000	0	0	1.0000
782	APMM44C2PA	5-A-2	-1050	19	14	-4	-250	9824
783	APMM44C3PA	5-A-3	-1054	17	7	-1	-347	9988
784	APMM44C4PA	5-A-4	-567	5	19	-1	315	9804
785	APMM44C5PA	5-A-5	-481	14	2	15	-191	9990
786	APMM44P3PA4	5-A-6	-463	7	8	-2	-234	9954
787	APMM44C1PF	5-A-7	-431	8	4	3	-248	9992
788	APMM44C2PF	5-A-8	-463	14	2	17	-267	9982
789	APMM44C3PF	5-A-9	-773	6	7	-23	-519	9994
790	APMM44C4PF	5-A-10	-630	16	4	25	-609	9996
791	APMM44C5PF	5-A-11	1	9	4	12	-255	9988
792	APMM44P1PFO 5	5-A-12	-468	13	3	9	-277	9989
793	APMM44P3PFO 5	5-A-13	-505	16	4	14	-299	9992
794	APMM44P5PFO 5	5-A-14	-654	11	2	10	-394	9998
795	APMM44RLPF	5-A-15	-722	17	2	17	-482	9996
796	APMM44R0PF	5-A-16	-262	12	2	11	-282	9993
797	APMM44RHPF	5-A-17	0	0	1.0000	-50	67	2106
798	APMM44P3PF2	5-A-18	-96	12	180	35	-269	9870
799	APMM44P3PF4	5-A-19	-461	8	22	8	-246	9934
800	M43 3P11 1P	5-A-20	-476	13	15	32	-238	9757
801	M43 3P11 5P	5-A-21	-426	17	16	19	-229	9981
802	M43 3P12 0P	5-A-22	-438	-3	32	24	-251	9679
803	M41 4P11 7P	5-A-23	-526	12	8	9	-219	9993
804	APM246C292	5-A-24	-734	20	25	13	-142	9905
805	APM246C285	5-A-25	0	0	1.0000	-13	-109	9857
806	APM246C277	5-A-26	-545	1	11	-2	-166	9996
807	APM246C270	5-A-27	-432	-6	11	16	-204	9974
808	AP2246C3PA	5-A-28	-1492	4	5	-3	-183	9992
809	AP2246C3PF	5-A-29	0	0	2	0	0	2557
810	AP2252C35F	5-A-30	-696	10	8	15	336	9993
811	AS2252C35A	5-A-31	-1	0	1	0	0	1921
812	APM262C101	5-A-32	-471	7	17	6	-175	9981
813	APM262C09A	5-A-33	-409	11	30	3	-157	9969
814	APM262C086(R)	5-A-34	-1	10	40	-4	-2	0748
815	APM262C078	5-A-35	0	0	1.0000	0	0	1.0000
816	APM262RL2A	5-A-36	0	0	0	0	0	1.0000
817	APM262RD2A	5-A-37	35	19	34	28	-47	5145
818	APM262RH2A	5-A-38	52	18	36	28	-40	5696
819	ASMM66C15F	5-A-39	-729	18	6	10	67	9934
820	ASMM66C25F	5-A-40	-943	24	8	10	163	9989
821	ASMM66C35F	5-A-41	-968	16	7	6	219	9982
822	ASMM66C45F	5-A-42	-613	16	63	-21	159	8918
823	ASMM66C55F	5-A-43	-569	22	5	22	154	9977
824	M59 5P SP(AC)	5-A-44	-471	17	3	11	-11	7658
825	M59 5P SP(PCD)	5-A-45	-267	13	2	6	-9	7926



TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
826	M59.9P SP(FCI)	5-A-46	-322	14	3	9999	3	-9	3	7101
827	M4855W(BMSU)	5-A-47	60	19	30	5227	7	88	37	7571
828	B56P8MMS(BM)	5-A-48	-44	12	15	9143	7	31	7	9327
829	M4855W(BMSL)	5-A-49	0	0	0	1 0000	0	0	0	1 0000
830	B56P8M2S(BM)	5-A-50	-106	9	41	8177	8	-115	24	9007
831	B40S9MMP(IC)	5-A-51	586	17	5	9988	19	57	5	9905
832	B64P8MMS(BM)	5-A-52	51	21	11	8838	31	5	10	8936
833	H23 9S19S	5-A-53	125	15	10	9761	3	-30	7	8755
834	B24S9 SMHRV(IC)	5-A-54	-82	17	6	9939	9	-34	3	9742
835	B24S9 SMHRD(IC)	5-A-55	-89	15	6	9949	6	-28	5	8890
836	B24S9 SMHRN(IC)	5-A-56	12	11	6	8545	8	-35	4	9668
837	H23 9S16P(INSU)	5-A-57	351	11	4	9997	9	80	7	9857
838	H23 9S16P(HSL)	5-A-58	-613	17	9	9996	14	30	7	9373
839	H23P17MFP(L)	5-A-59	-134	12	3	9990	9	-97	3	9980
840	W44P2M2(ID)	5-A-60	-1	12	6	9536	4	4	4	7153
841	H23 9S4 SP(HSD)	5-B-1	-122	14	5	9981	10	-111	4	9961
842	H23 9S4 SP(HSL)	5-B-2	12	6	27	4761	-22	145	31	8618
843	H24 1P8 SP(HSL)	5-B-3	494	-2	102	9135	3	66	47	5343
844	H24 1P8 SP(HSU)	5-B-4	-515	5	7	9996	7	-167	3	9984
845	H24 1P13 9P(IC)	5-B-5	19	16	4	9710	15	36	4	9857
846	H29 3P17 BRH	5-B-6	36	6	6	8995	4	40	6	9605
847	H29 3P17 BRD	5-B-7	-875	5	4	9999	5	-92	3	9978
848	H29 3P17 BRL	5-B-8	-161	19	4	9990	18	-183	5	9981
849	H31 9P14S(IC)	5-B-9	-47	11	4	9936	-21	-121	6	9933
850	B32P8F(IRHIC)	5-B-10	56	16	5	9697	22	22	6	9643
851	B32P8F(ROIC)	5-B-11	-60	13	3	9982	9	-16	3	8458
852	B32P8F(IRVIC)	5-B-12	-158	11	5	9986	7	4	4	7577
853	M31 8P11W	5-B-13	-255	8	6	9988	8	-74	4	9919
854	M31 8P10 SP	5-B-14	-301	20	7	9993	10	-149	3	9992
855	H37P2CP	5-B-15	-251	17	3	9997	15	-225	4	9991
856	H37S20P(ICU)	5-B-16	-221	12	3	9997	5	215	6	9983
857	H37S20P(CU)	5-B-17	-179	20	8	9969	27	205	9	9964
858	H37S19P(IC)	5-B-18	-190	17	3	9996	21	216	9	9967
859	H37 4S20P(IC)	5-B-19	-221	15	8	9975	7	227	7	9979
860	B40S8 SMFRV(BB)	5-B-20	38	13	8	8588	10	27	11	8484
861	B40S8 SMFRD(BB)	5-B-21	-124	11	8	9935	22	74	11	9686
862	B40S8 SMFRH(BB)	5-B-22	-198	17	11	9951	20	44	8	9621
863	H44S20P(LP)	5-B-23	-178	11	10	9945	-8	273	12	9955
864	H45 4S21P(IC)	5-B-24	-387	13	4	9998	4	308	3	9992
865	H45 4S21P(IC)	5-B-25	388	15	5	9997	8	301	6	9991
866	H41P20P(IC)	5-B-26	-12	5	6	6467	-7	84	8	9764
867	H47 9P9P(IC)	5-B-27	476	12	5	9997	14	-192	8	9953
868	B48P6 2MHRV(BB)	5-B-28	-72	8	14	9479	3	-5	8	1614
869	B48P6 2MHRD(BB)	5-B-29	-1	0	3	2175	0	0	0	1 0000
870	B48P6 2MHRH(BB)	5-B-30	52	20	10	8997	21	-45	7	8941
871	H41 6P2DF(IC)	5-B-31	0	-1	2	1457	0	0	0	2687
872	B48P12MMP(IC)	5-B-32	63	4	11	9139	1	13	-7	6702
873	B48P12MMP(IC)	5-B-33	62	19	8	8754	6	23	2	9887
874	B48C0P(IC)	5-B-34	47	4	16	7485	-6	-3	7	5132
875	H55 9P2P(IC)	5-B-35	0	0	0	1 0000	0	0	0	1 0000
876	H48 9P10P(LD)	5-B-36	0	0	0	1 0000	0	0	0	1 0000
877	H51P14P(IC)	5-B-37	149	13	3	9982	7	-287	4	9996
878	H51P14P(L)	5-B-38	366	12	4	9997	10	-244	3	9997
879	H48P19P(IC)	5-B-39	-221	15	4	9996	15	-306	3	9997
880	H51P18P(IC)	5-B-40	-190	18	4	9993	11	-273	3	9997
881	M56PAW(BMSUD)	5-B-41	-165	21	41	9259	63	-61	37	5484
882	M56PAW(BMSLD)	5-B-42	-80	15	39	6245	-61	-80	38	8898
883	M56PAW(BMSUD)	5-B-43	-158	46	19	8892	85	-98	30	7665
884	M56PAW(BMSLD)	5-B-44	0	0	0	1 0000	0	0	0	1 0000
885	RESISTOR	5-B-45	-2	-3	4	6499	-8	4	5	4923
886	M40S3W(BMSU)	5-B-46	-308	12	36	9743	10	-48	5	9706
887	B56P8MMP(BM)	5-B-47	-99	17	45	8217	22	-133	21	9270
888	M8855W(BMSU)	5-B-48	0	0	0	1 0000	0	0	0	1 0000
889	B56P8M7P(BM)	5-B-49	-50	4	23	7694	-6	-53	12	9127
890	M31 8P10W	5-B-50	-327	15	21	9924	12	-159	2	9995
891	H76S12P(IC)	5-B-51	-60	15	5	9945	10	86	3	9938
892	H16S12P(IC)	5-B-52	-60	19	5	9948	20	54	7	9796
893	H16S12P(L)	5-B-53	-98	10	23	9239	16	51	10	9539
894	H16S12P(IC)	5-B-54	1	14	3	9862	9	-13	4	7467
895	H17 6S8S(IC)	5-B-55	69	16	5	9938	8	33	3	9908
896	H17P14P(IC)	5-B-56	33	15	3	9943	11	-19	3	8719
897	H 2P14P(IC)	5-B-57	-3	15	4	9842	7	-18	3	9298
898	B16PAP(IC)	5-B-58	134	16	4	9964	17	-3	6	8398
899	H23S20P(IC)	5-B-59	157	12	3	9994	6	102	1	9997
900	RESISTOR	5-B-60	0	0	4	2587	-4	3	3	5125

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
			SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
901	B64C0ZZP	4--1	-51	17	20	.9131	13	-9	3	8389
902	B64C0ZZS	4--2	-74	7	11	.9698	9	-10	1	9317
903	B64P4ZZP	4--3	0	0	0	1.0000	7	-38	4	9681
904	B64P4ZZS	4--4	-219	8	18	.9867	5	-52	3	9906
905	B64P8ZZP	4--5	-107	8	11	.9831	8	-52	4	9794
906	B64P8ZZS	4--6	-121	7	22	.9458	2	-39	9	8799
907	B64C0MZP	4--7	-120	8	25	.9333	12	-21	3	9070
908	B64C0MZS	4--8	-42	9	4	.9930	5	8	3	9189
909	B64P4MZP	4--9	-112	10	21	.9496	5	-33	4	9647
910	B64P4MZS	4--10	-145	4	21	.9584	5	-50	5	9752
911	B64P8MZP	4--11	-12	9	21	.6311	6	-31	5	9344
912	B64P8MZS	4--12	-140	7	6	.9964	6	-62	4	9877
913	B64C0MFP	4--13	-27	7	13	.8359	4	-6	2	7032
914	B64C0MFS	4--14	-65	13	20	.9125	14	-8	5	7567
915	B64P2MFP	4--15	-149	24	116	.6256	8	-10	2	9106
916	B64P2MFS	4--16	0	0	2	1842	0	0	-	2136
917	B64C0F1P	4--17	-68	7	10	.9696	9	-6	-	9437
918	B64C0F1S	4--18	-59	8	5	.9889	6	-2	3	6058
919	B64P6F1P	4--19	38	6	13	.6794	8	-15	6	6098
920	B64P6F1S	4--20	10	4	10	.3456	4	-41	3	8274
921	B64S4ZZP	4--21	-98	5	16	.9541	11	5	3	9338
922	B64S4ZZS	4--22	-115	9	5	.9968	11	28	3	9860
923	B64S8ZZP	4--23	-125	10	9	.9910	15	43	5	9841
924	B64S8ZZS	4--24	-64	8	16	.9249	4	16	7	8089
925	B64S4MZP	4--25	-92	45	91	.7312	7	10	5	8716
926	B64S4MZS	4--26	-190	6	23	.9723	7	20	3	9678
927	B64S8MZP	4--27	-83	73	300	.3531	12	24	4	9693
928	B64S8MZS	4--28	-122	64	211	.5202	12	39	4	9887
929	B64S4MFP	4--29	-88	66	218	.4679	8	9	2	9619
930	B64S4MFS	4--30	-80	14	23	.9179	8	12	3	9629
931	B64S6F1P	4--31	-50	43	122	.5232	4	9	3	9166
932	B64S6F1S	4--32	-20	113	379	.3482	10	25	3	9850
933	B64CDHHRH	4--33	17	12	5	.9361	9	-5	3	8275
934	B64CDHHRD	4--34	-3	11	6	.9500	6	8	2	9375
935	B64CDHHRV	4--35	21	9	7	.7874	7	5	3	8972
936	B64P711RV	4--36	50	6	14	.7845	10	-27	4	9227
937	B64P711RD	4--37	23	5	6	.8000	2	-2	6	2053
938	B64P711RH	4--38	140	-1	14	.9779	8	29	3	9823
939	B64P11F1RV	4--39	-435	10	11	.9988	4	91	2	9990
940	B64P11F1RD	4--40	84	4	12	.9432	7	-32	2	9805
941	B64P11F1RH	4--41	-168	-35	37	.8250	-11	-45	14	8693
942	B64P13FFRV	4--42	-23	2	11	.7588	3	97	4	9963
943	B64P13FFRD	4--43	-272	8	46	.9453	1	116	16	9598
944	B64P13FFRH	4--44	19	13	6	.9223	0	-3	8	1892
945	B64S711RH	4--45	78	7	9	.9524	2	8	4	7627
946	B64S711RD	4--46	77	16	13	.8781	0	9	6	5289
947	B64S711RV	4--47	-1	11	9	.8784	13	-14	7	6023
948	B64S11F1RH	4--48	65	10	4	.9868	4	111	14	9662
949	B64S11F1RD	4--49	-424	12	16	.9972	2	-52	5	9788
950	B64S11F1RV	4--50	-34	12	10	.9463	-3	-62	7	9747
951	B64S1311RH	4--51	0	0	0	1.0000	0	0	0	1.0000
952	B64S1311RD	4--52	-210	25	46	.9384	-1	-11	12	3841
953	B64S1311RV	4--53	-14	9	13	.8117	-5	-5	4	7534
954	H61.2520P(CU)	4--54	-443	13	8	.9993	4	330	4	9997
955	M595BP(C)	4--55	-406	13	9	.9990	3	202	2	9997
956	APM246C112	4--56	-418	-10	17	.9960	-9	-83	3	9967
957	APM246C105	4--57	-381	-17	15	.9954	-1	-106	8	9960
958	APM246C97	4--58	-516	4	31	.9821	10	-145	16	9704
959	APM246C80	4--59	-127	-22	27	.8281	9	-116	6	9964
960	H60P19(D)	4--60	-2	11	6	.9367	12	-1	2	9547
961	M61P14P(G)	4-A-1	0	0	0	1.0000	0	0	0	1.0000
962	M61P11.1P	4-A-2	-449	9	5	.9998	5	-288	2	9999
963	M61P10W	4-A-3	-408	17	3	.9999	7	-220	3	9994
964	M61P8W	4-A-4	-394	12	6	.9996	9	-127	2	9992
965	M61P2W	4-A-5	-287	15	3	.9999	8	-35	2	9881
966	M61C0W	4-A-6	0	0	0	1.0000	0	0	0	1.0000
967	M61S2W	4-A-7	-372	13	3	.9999	6	29	3	9858
968	M61S4W	4-A-8	-210	11	4	.9997	7	63	3	9961
969	M61S6W	4-A-9	-422	15	3	.9999	-18	127	12	9738
970	M61S8W	4-A-10	-358	11	4	.9997	1	150	3	9993
971	M61S9.SP	4-A-11	-372	13	5	.9996	8	185	2	9996
972	M61S10W	4-A-12	-366	15	4	.9998	5	205	2	9994
973	M61S10.SP	4-A-13	-282	15	96	.8340	-11	217	8	9962
974	M61S11.1P	4-A-14	-394	-87	73	.8790	-1	267	8	9978
975	M61S12W	4-A-15	-420	13	5	.9997	7	268	7	9986

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
976	M61S12 SP	4-A-16	-11	0	2	2301	0	0	0	1149
977	M61S13W	4-A-17	-451	3	12	9984	-2	283	11	9962
978	M61S14P	4-A-18	-441	10	26	9958	3	286	11	9968
979	Z61CDW	4-A-19	-846	12	9	9998	5	5	1	9614
980	Z61S2W	4-A-20	-445	11	3	9999	2	23	2	9855
981	Z61S4W	4-A-21	-523	10	4	9999	8	59	2	9983
982	Z61S6W	4-A-22	-1057	13	15	9995	2	177	3	9954
983	Z61S8W	4-A-23	-862	13	7	9999	9	182	5	9981
984	Z61S9W	4-A-24	-895	9	8	9998	1	210	3	9951
985	Z61S10W	4-A-25	-1245	31	34	9945	6	292	3	9997
986	Z61S10 SP	4-A-26	-1569	5	77	9946	4	353	3	9998
987	Z61S10 9P	4-A-27	-1450	-16	65	9952	-9	345	3	9996
988	Z61P6W	4-A-28	-1198	15	41	9975	-7	120	8	9886
989	Z61P10W	4-A-29	-1270	38	35	9984	3	82	5	9918
990	M61S2M3 9P	4-A-30	-1564	24	49	9978	3	361	3	9992
991	M61S20 1P	4-A-31	-1027	3	40	9965	-9	309	3	9996
992	H56 1S21P	4-A-32	-1074	6	48	9954	10	357	8	9968
993	H61S3W	4-A-33	675	10	4	9999	3	60	7	9735
994	H61P5W	4-A-34	666	6	4	9999	2	170	4	9903
995	H61S5W	4-A-35	605	3	9	9995	1	104	4	9970
996	H61S7W	4-A-36	519	7	2	9999	6	147	2	9997
997	H61P7W	4-A-37	139	1	2	9993	1	42	3	9886
998	H61S9W	4-A-38	-195	3	4	9989	0	309	3	9997
999	H61S11W	4-A-39	436	5	3	9999	2	-224	2	9998
1000	H61P11W	4-A-40	515	7	5	9998	0	-150	2	9995
1001	M61S13W	4-A-41	342	0	16	9953	3	255	6	9986
1002	M61S14W	4-A-42	284	7	4	9995	2	281	2	9999
1003	H61P14W	4-A-43	269	7	7	9982	20	-272	4	9994
1004	H61S15W	4-A-44	149	11	3	9985	4	292	2	9998
1005	H61S16 SP	4-A-45	-121	12	4	9887	6	272	4	9995
1006	H61P16 SP	4-A-46	0	7	0	1 0000	9	-267	5	9993
1007	H61S18W	4-A-47	32	297	491	6509	563	-856	407	5438
1008	H61S20WL	4-A-48	371	11	2	9999	13	316	7	9989
1009	H61P20WL	4-A-49	398	11	3	9999	6	-327	3	9996
1010	H57 9995101	4-A-50	150	15	18	9529	6	-120	8	9893
1011	B56P811P101	4-A-51	101	14	14	9272	11	-34	8	8365
1012	ASMZ76C098	4-A-52	481	51	37	9912	6	126	13	9794
1013	ASMZ76C105	4-A-53	595	60	39	9935	-3	114	4	9972
1014	ASMZ76C112	4-A-54	683	58	70	9863	2	93	2	9991
1015	ASMM66C55A	4-A-55	860	5	5	9999	-2	488	8	9994
1016	ASMM66C45A	4-A-56	771	8	5	9999	3	517	6	9996
1017	ASMM66C35A	4-A-57	768	15	6	9999	8	464	4	9998
1018	ASMM66C15A	4-A-58	525	88	1120	1990	18	-376	673	0265
1019	ASMM66C15A	4-A-59	-524	11	5	9998	8	290	2	9995
1020	WFRS-MZ101	4-A-60	0	9	4	9664	10	1	4	7927
1021	B72C0HHRH	4-B-1	-55	9	10	9994	6	4	3	8430
1022	B72C0HHRD	4-B-2	-61	11	6	9884	6	9	2	9683
1023	B72C0HHRN	4-B-3	-105	11	3	9987	9	5	2	9712
1024	B72P12 SF1RY	4-B-4	140	7	3	9989	9	-92	8	9803
1025	B72P12 SF1RD	4-B-5	147	14	5	9981	2	43	3	9888
1026	B72P12 SF1RH	4-B-6	92	8	5	9895	3	-24	3	9668
1027	B72S12 SF1RH	4-B-7	106	9	8	9799	3	91	7	9854
1028	B72S12 SF1RD	4-B-8	-236	10	6	9986	10	107	6	9905
1029	B72S12 SF1PY	4-B-9	33	11	3	9931	-25	-43	6	9848
1030	Z62 5COW	4-B-10	-886	7	7	9997	0	2	1	2966
1031	Z63COW	4-B-11	-623	8	7	9997	7	2	1	9611
1032	Z67COW	4-B-12	-627	10	4	9999	4	-2	2	7342
1033	Z69COW	4-B-13	-653	6	9	9995	8	1	2	9374
1034	Z71COW	4-B-14	-601	14	6	9992	8	0	2	9038
1035	Z83S6W	4-B-15	-714	11	4	9999	6	124	2	9987
1036	Z83S11W	4-B-16	1	0	2	2998	-1	0	1	4192
1037	M63COW	4-B-17	0	0	0	1 0000	-5	2	5	3722
1038	M63S11 1P	4-B-18	-461	24	12	9987	8	257	2	9998
1039	M63S14P	4-B-19	-504	14	4	9992	2	321	3	9998
1040	M65COW	4-B-20	-418	10	6	9995	0	5	4	4582
1041	M65S11 1P	4-B-21	-451	5	11	9987	8	268	3	9998
1042	M65S14P	4-B-22	-557	0	20	9971	-7	333	6	9992
1043	M65P14P	4-B-23	-509	14	4	9998	18	-316	5	9995
1044	M65P17 1P	4-B-24	-464	3	8	9994	4	-272	2	9999
1045	M67COW	4-B-25	0	0	0	1 0000	0	0	0	1 0000
1046	M67S11 1P	4-B-26	-430	6	7	9995	4	250	2	9999
1047	M67S14P	4-B-27	-762	-160	245	6967	3	282	8	9981
1048	M69COW	4-B-28	0	0	0	1 0000	0	0	0	1 0000
1049	M69S11 1P	4-B-29	-438	5	53	9992	25	243	5	9991
1050	M69S14P	4-B-30	-335	61	79	9438	-10	273	4	9994

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
1051	M69P11 1P	4-B-31	-482	0	31	9897	-2	11	3	8087
1052	M69P14P	4-B-32	0	0	0	1 0000	0	0	0	1 0000
1053	M71CDW	4-B-33	-382	15	3	9999	1	-1	2	0777
1054	M71S10 1P	4-B-34	-382	10	4	9998	2	233	2	9999
1055	M71S13P	4-B-35	-507	11	3	9999	95	351	25	9928
1056	M6358 5P	4-B-36	-377	13	4	9998	3	141	3	9993
1057	I69COP	4-B-37	86	1	5	9933	-1	-5	6	3201
1058	I65COP	4-B-38	-5	0	4	5103	0	0	3	2546
1059	F65CONA	4-B-39	0	0	0	1 0000	0	0	0	1 0000
1060	H63COP	4-B-40	426	6	6	9995	-3	-1	3	6423
1061	H65COP	4-B-41	882	24	97	9693	148	150	63	9149
1062	H65S13W	4-B-42	325	5	8	9996	1	233	2	9998
1063	H67COP	4-B-43	0	0	0	1 0000	0	0	0	1 0000
1064	H69P13W	4-B-44	315	8	4	9997	2	-226	3	9996
1065	H69COP	4-B-45	0	0	0	1 0000	0	0	0	1 0000
1066	H69S13W	4-B-46	345	8	3	9997	0	0	0	1 0000
1067	H71COP	4-B-47	608	15	4	9999	12	-7	4	7414
1068	I61COP	4-B-48	425	9	5	9997	12	3	8	6862
1069	F61CONA	4-B-49	-14	10	3	9925	4	2	4	5524
1070	B6458 SMRRV	4-B-50	-42	7	7	9715	5	23	8	8413
1071	B6458 SMMRD	4-B-51	-119	13	7	9955	5	22	5	9200
1072	B6458 SMRRH	4-B-52	-318	-26	157	9989	248	-5	255	4431
1073	H65S20P(ICU)	4-B-53	-311	9	7	9990	-2	345	5	9996
1074	H65S20P(ACL)	4-B-54	-291	11	3	9998	2	320	3	9999
1075	H65S20P(IFCL)	4-B-55	-288	8	4	9995	0	289	2	9999
1076	ASMZ76C090	4-B-56	-357	-6	10	9980	4	133	2	9996
1077	ASMZ62C65	4-B-57	-602	34	15	9988	9	-186	2	9996
1078	ASMZ62C60	4-B-58	499	131	413	2859	260	-246	651	1937
1079	ASMZ62C55	4-B-59	-428	-16	20	9940	2	-144	2	9995
1080	H68S19P(D)	4-B-60	3	13	5	9692	13	C	2	9610
1081	B80C0Z2P	3--1	-130	12	4	9988	8	1	2	9038
1082	B80C0Z2S	3--2	273	4	3	9997	1	0	1	9907
1083	B80P3Z2P	3--3	-93	5	4	9968	1	0	2	4215
1084	B80P3Z2S	3--4	174	8	3	9990	0	-16	1	8919
1085	B80P8Z2P	3--5	-50	2	4	9886	-1	-11	3	8716
1086	B80P8Z2S	3--6	84	3	2	9977	1	-20	1	9868
1087	B80C0M2P	3--7	-25	2	16	6326	-16	-7	8	8252
1088	B80C0M2S	3--8	38	12	6	8971	10	-7	3	8306
1089	B80P3M2P	3--9	-40	9	2	9969	8	-9	3	7899
1090	B80P8M2S	3--10	94	6	3	9977	4	-2	2	6647
1091	B80P8M2P	3--11	19	4	2	9395	1	1	3	1485
1092	B80P8M2S	3--12	33	5	4	9358	-3	0	5	1599
1093	B80C0MFP	3--13	0	0	0	1 0000	0	0	0	1 0000
1094	B80C0MFS	3--14	-1	15	4	9872	25	-17	40	0418
1095	B80P9MFP	3--15	41	3	9	8622	-3	11	4	6735
1096	B80P9MFS	3--16	-21	-10	13	5930	-176	-68	136	6649
1097	B80C0F1P	3--17	59	7	1	9977	4	0	1	9384
1098	B80C0F1S	3--18	-147	9	3	9993	-1	-3	3	3708
1099	B80P6F1P	3--19	45	6	2	9896	7	2	2	9095
1100	B80P6F1S	3--20	38	12	2	9890	8	-13	2	8802
1101	B80S4Z2P	3--21	-111	9	3	9991	8	5	2	9753
1102	B80S4Z2S	3--22	242	2	3	9997	0	-3	2	6231
1103	B80S8Z2P	3--23	-73	9	5	9948	6	13	1	9854
1104	B80S8Z2S	3--24	159	-5	19	9736	18	-17	7	6602
1105	B80S4M2P	3--25	-30	6	2	9960	2	-2	3	0869
1106	B80S4M2S	3--26	40	4	2	9925	0	13	2	9731
1107	B80S8M2P	3--27	12	2	4	6794	3	0	2	6772
1108	B80S8M2S	3--28	50	3	2	9955	-2	-3	11	1776
1109	B80S7MFP	3--29	6	2	1	8994	0	-1	2	1252
1110	B80S7MFS	3--30	-17	10	5	9766	9	17	4	9572
1111	B80S6F1P	3--31	24	0	7	9061	11	-14	9	4658
1112	B80S6F1S	3--32	48	1	27	5949	3	9	14	2763
1113	B80C0HHRH	3--33	-3	6	10	6729	3	-41	34	4289
1114	B80C0HHRD	3--34	-118	4	2	9992	1	8	1	9530
1115	B80C0HHRV	3--35	-64	5	3	9963	-5	-1	4	6427
1116	B80P711RV	3--36	18	4	2	9573	1	0	2	3836
1117	B80P711RD	3--37	-9	10	3	9861	4	11	4	8634
1118	B80P711RH	3--38	-72	3	7	9845	2	19	4	9254
1119	B80P11F1RV	3--39	28	3	5	8746	4	7	5	8861
1120	B80P11F1RD	3--40	9	17	4	9851	17	-35	10	7376
1121	B80P11F1RH	3--41	-14	1	4	8795	-1	-49	0	9953
1122	B80P12F1RV	3--42	0	0	0	1 0000	0	0	0	1 0000
1123	B80P12F1RD	3--43	16	2	1	9769	-1	27	1	9928
1124	B80P12F1RH	3--44	-17	10	3	9885	10	-8	4	8919
1125	B80S711RH	3--45	-94	8	3	9888	8	-10	2	8806

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY			
			SENSITIVITY, 100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY, 100% LATERAL	ERROR OF EST. MATE	CORRELATION COEFFICIENT
1126	880511IRD	3-A-46	0	0	0	1.0000	0	0	1.0000
1127	880511IRY	3-A-47	41	10	8	9801	-8	29	8425
1128	880511IRH	3-A-48	15	12	10	9689	1	5	5885
1129	880511FIRD	3-A-49	72	5	3	9966	1	143	5978
1130	880511FIRY	3-A-50	-23	13	8	9771	8	149	5525
1131	880512FFRH	3-A-51	-15	5	7	8855	2	13	8801
1132	880512FFRD	3-A-52	-13	1	4	0672	0	1	1564
1133	880512FFRY	3-A-53	-25	7	5	5756	7	-28	5847
1134	H84 SS2PICUL	3-A-54	-284	0	8	9591	0	175	5491
1135	H101P20P(UC)	3-A-55	-61	13	6	9511	8	-22	9658
1136	H100P20P(AC)	3-A-56	-52	7	9	9616	1	-8	9515
1137	B986HMPIC	3-A-57	56	15	6	9452	7	27	9122
1138	M1013COW(0)	3-A-58	-123	16	6	9965	9	0	8200
1139	M1013COW(0)	3-A-59	-12	6	4	9296	1	-1	2944
1140	B80CMFIC	3-A-60	1	7	4	9284	4	0	9434
1141	H73P13P	3-A-1	354	15	4	9998	6	63	9921
1142	H73P12W	3-A-2	-450	7	8	9999	-2	-263	9954
1143	H73P10-1P	3-A-3	-391	4	5	9996	-7	-202	9954
1144	H73P8A	3-A-4	323	6	5	9996	-24	-104	9877
1145	H73P6A	3-A-5	374	3	8	9989	-17	109	9549
1146	H73P2W	3-A-6	-324	8	4	9998	-1	-19	5467
1147	H73C0W	3-A-7	-397	10	4	9998	2	0	5633
1148	H7352A	3-A-8	-347	11	4	9998	4	26	9890
1149	H7354A	3-A-9	-463	9	4	9998	2	-276	9997
1150	H7356A	3-A-10	-346	9	3	9996	2	98	9989
1151	H7358A	3-A-11	-360	3	3	9994	-14	111	9556
1152	H7359A	3-A-12	-381	7	3	9998	0	134	9907
1153	H7359-5P	3-A-13	0	0	0	1.0000	0	0	1.0000
1154	H73510-1P	3-A-14	-377	12	8	9991	4	201	9954
1155	H73511W	3-A-15	-433	5	7	9995	-4	246	9997
1156	H73511-5P	3-A-16	-389	2	4	9998	0	236	9994
1157	H73512P	3-A-17	-430	9	2	9999	2	273	9997
1158	H73512-5P	3-A-18	-467	12	5	9997	4	287	9958
1159	H73513P	3-A-19	-488	9	4	9998	3	295	9994
1160	2735C0W	3-A-20	-587	11	6	9998	8	1	8245
1161	27352W	3-A-21	-622	10	5	9999	6	43	9956
1162	27354A	3-A-22	-555	3	3	9999	-2	64	9947
1163	27356W	3-A-23	-743	3	32	9958	3	115	9982
1164	27358A	3-A-24	-777	7	16	9990	1	179	9994
1165	27359A	3-A-25	-744	5	4	9999	-26	189	9919
1166	27359-5P	3-A-26	-716	13	34	9952	-6	206	9983
1167	273510W	3-A-27	-902	-2	9	9997	1	218	9994
1168	273511A	3-A-28	-868	-33	86	9730	0	325	2861
1169	273P6W	3-A-29	734	3	14	9992	0	-118	9977
1170	273P10W	3-A-30	-704	2	12	9994	11	-162	9975
1171	H735M20-1P	3-A-31	-430	5	2	9999	3	194	9972
1172	H735M22-0W	3-A-32	-361	-3	16	9951	-3	169	9731
1173	H735M23-9P	3-A-33	-790	1	5	9999	4	217	9982
1174	H73520P(0)	3-A-34	-244	3	4	9995	0	213	9995
1175	H7351W	3-A-35	528	-1	4	9999	-2	16	7756
1176	H7353W	3-A-36	486	2	5	9997	-9	44	8622
1177	H73P3W	3-A-37	572	11	5	9998	8	-25	9488
1178	H7355W	3-A-38	432	4	3	9999	-7	72	9887
1179	H7357W	3-A-39	433	4	4	9998	1	117	9986
1180	H73P7W	3-A-40	356	11	3	9998	8	-136	9983
1181	H7359W	3-A-41	275	4	3	9998	3	144	9994
1182	H73511W	3-A-42	0	0	0	1.0000	0	0	1.0000
1183	H73P11W	3-A-43	333	2	3	9998	-1	-179	9998
1184	H73512W	3-A-44	355	13	5	9994	7	201	9995
1185	H73513W	3-A-45	334	8	5	9994	-5	220	9988
1186	H73P13W	3-A-46	342	2	6	9993	-1	-228	9994
1187	H73514W	3-A-47	238	9	3	9995	7	226	9988
1188	H73515W	3-A-48	118	4	4	9966	-2	241	9958
1189	H73P15W	3-A-49	112	-5	8	9904	-6	-243	9992
1190	H73516-5P	3-A-50	-39	7	8	9508	8	258	9997
1191	H73P16-5P	3-A-51	-36	3	12	8653	2	-237	9996
1192	H73518W	3-A-52	3	2	4	2882	0	0	1.0000
1193	H73520W	3-A-53	-393	12	5	9997	7	280	9999
1194	H73P20W	3-A-54	-391	2	8	9990	-4	-274	9997
1195	H79 SS18P(AC)	3-A-55	59	10	4	9763	7	-51	9944
1196	1981COP(0)	3-A-56	-120	7	8	9927	0	6	5257
1197	B9856HMPIC	3-A-57	262	11	8	9974	6	-21	9619
1198	H17517W(0)	3-A-58	-40	40	21	9594	-7	26	9933
1199	RESISTOR	3-A-59	4	10	18	5442	-5	-4	6787
1200	H76519(0)	3-A-60	0	15	6	9576	-12	2	7047

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
1201	Z75CDW	3-B-1	-533	12	4	.9999	8	1	2	9213
1202	Z77CDW	3-B-2	-512	4	4	.9998	2	0	1	5577
1203	Z79CDW	3-B-3	-420	5	4	.9998	1	3	2	7582
1204	Z79 SCOW	3-B-4	0	0	0	1.0000	0	0	0	1.0000
1205	Z83CDW	3-B-5	-363	1	6	.9994	-10	14	4	7918
1206	Z85CDW	3-B-6	-240	4	5	.9990	-2	6	2	8151
1207	W83PZM3 9P	3-B-7	-346	9	4	.9997	4	-111	1	9956
1208	Z83P6W	3-B-8	-396	8	3	.9999	3	-62	2	9984
1209	RESISTOR	3-B-9	-1	0	2	4465	0	0	0	1.0000
1210	Z8356W	3-B-10	-338	9	4	.9997	5	65	2	9980
1211	Z79 556W	3-B-11	-475	9	3	.9995	-2	77	3	9975
1212	Z79 559 9P	3-B-12	-537	6	5	.9998	-5	148	2	9994
1213	W835M20 1P	3-B-13	0	0	0	1.0000	0	0	0	1.0000
1214	W835M22 0W	3-B-14	-199	11	3	.9996	6	94	2	9989
1215	W835M23 9P	3-B-15	0	0	0	1.0000	0	0	0	1.0000
1216	M75CDW	3-B-16	-311	6	4	.9997	2	130	2	9997
1217	M75510 1P	3-B-17	-411	14	10	.9989	0	205	2	9996
1218	M75513P	3-B-18	-410	11	4	.9998	5	277	2	9999
1219	M77CDW	3-B-19	-411	10	2	.9999	4	1	2	8536
1220	M77510 1P	3-B-20	-469	3	5	.9998	11	192	3	9995
1221	M77513P	3-B-21	-335	11	3	.9998	2	244	3	9996
1222	B80P61JWIC)	3-B-22	-34	3	3	.9879	-5	2	4	5284
1223	M77P13P	3-B-23	0	0	0	1.0000	0	0	0	1.0000
1224	M79CDW	3-B-24	-359	8	3	.9999	-1	-3	2	6805
1225	M79510 1P	3-B-25	-316	6	3	.9999	2	147	3	9992
1226	M79513P	3-B-26	-249	4	3	.9997	-10	175	5	9976
1227	M85CDW	3-B-27	-284	6	2	.9995	2	0	2	3841
1228	M81510 1P	3-B-28	-262	-1	5	.9993	-4	151	3	9991
1229	M81513P	3-B-29	-290	2	2	.9999	3	161	2	9995
1230	M81P10 1P	3-B-30	-276	10	2	.9999	6	-147	4	9984
1231	M81P13P	3-B-31	-325	5	3	.9996	2	-154	5	9973
1232	M83CDW	3-B-32	0	0	0	1.0000	0	0	0	1.0000
1233	M83510 1P	3-B-33	-274	1	3	.9998	-3	144	2	9994
1234	M83513P	3-B-34	-346	3	2	.9999	-2	195	1	9999
1235	M81CDW	3-B-35	-348	8	3	.9999	-1	0	1	1343
1236	M85510 1P	3-B-36	-248	4	3	.9997	0	103	2	9988
1237	M85513P	3-B-37	-155	11	2	.9998	6	133	3	9988
1238	M85P10 1P	3-B-38	-325	4	3	.9998	0	-92	2	9993
1239	M85P13P	3-B-39	-209	3	3	.9995	5	-124	2	9995
1240	F81 55(41N5 1B)	3-B-40	12	9	2	.9842	8	-56	3	9896
1241	M8155 5P	3-B-41	-373	6	3	.9999	1	38	1	9985
1242	M8355 5P	3-B-42	0	0	0	1.0000	0	0	0	1.0000
1243	M83P10 1P	3-B-43	-247	3	3	.9997	-3	-133	1	9997
1244	M83P13P	3-B-44	0	0	0	1.0000	0	0	0	1.0000
1245	Z73CDP	3-B-45	196	10	4	.9988	5	2	2	8907
1246	Z77CDP	3-B-46	272	5	3	.9997	0	-1	2	1136
1247	Z81CDP	3-B-47	256	12	3	.9995	10	-4	3	8550
1248	F81CDNA	3-B-48	-22	5	5	.9483	-1	5	2	7564
1249	F85CDNA	3-B-49	-57	3	6	.9826	-13	4	3	9292
1250	B80P8MMPH	3-B-50	3	9	4	.9355	7	-21	3	9160
1251	B80P8MMRD	3-B-51	-42	6	5	.9828	-1	-20	1	9939
1252	B80P8MMPV	3-B-52	0	0	4	.2534	1	-1	1	2361
1253	B80P8MMPH	3-B-53	-70	9	4	.9956	5	-22	1	9850
1254	B80P8MFRD	3-B-54	-77	2	3	.9963	-5	-22	2	9802
1255	B80P8MFRV	3-B-55	13	11	5	.9320	3	-2	3	4655
1256	Z85CDP	3-B-56	319	2	7	.9990	0	3	3	3756
1257	RESISTOR	3-B-57	1	0	1	3107	0	0	0	1.0000
1258	RESISTOR	3-B-58	5	2	4	4045	-5	2	5	3872
1259	RESISTOR	3-B-59	425	376	287	8228	829	-379	1285	1460
1260	M83P19(D)	3-B-60	-2	10	3	.9759	1	4	2	7603
1261	B86CDZ2P	2-B-1	114	10	4	.9961	-1	1	1	9338
1262	B86CDZ2S	2-B-2	-398	7	3	.9999	3	8	2	9220
1263	B86P3Z2P	2-B-3	70	3	5	.9850	0	7	1	9028
1264	B86P3Z2S	2-B-4	-267	2	3	.9998	-3	-2	3	6356
1265	B86P8Z2P	2-B-5	68	19	3	.9889	14	-2	4	8848
1266	B86P8Z2S	2-B-6	-183	7	1	.9999	3	3	3	7161
1267	B86COM2P	2-B-7	5	7	2	.9646	1	2	2	5318
1268	B86COM2S	2-B-8	-78	4	5	.9919	3	3	3	6440
1269	B86P3M2P	2-B-9	37	-2	20	5884	3	-2	11	2267
1270	B86P3M2S	2-B-10	-5	5	5	8511	4	4	2	8758
1271	B86P8M2P	2-B-11	6	5	2	9183	-1	10	2	9183
1272	B86P8M2S	2-B-12	22	6	2	.9930	1	16	2	9561
1273	B86COMFP	2-B-13	3	4	2	.9088	2	5	3	7488
1274	B86COMFS	2-B-14	-184	4	2	.9996	0	6	2	8252
1275	B86P9MFP	2-B-15	-24	5	7	.9296	2	4	2	6926

TABLE B.1 (Continued)

CAGE NUMBER	CAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY			
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
1276	886P8MFS	2 16	49	12	4	9930	7	3	9877
1277	886COP A	2 17	19	4	2	9906	0	1	8050
1278	886COP B	2 18	14	2	2	9376	-2	5	6970
1279	886P6F1P	2 19	27	6	4	9824	1	8	9478
1280	886P6F1S	2 20	43	5	2	9961	-2	1	5441
1281	8865422P	2 21	34	9	2	8867	0	1	1121
1282	8865422S	2 22	-200	12	2	9996	-7	22	7885
1283	8865822P	2 23	18	2	1	9590	0	1	2292
1284	8865822S	2 24	182	9	21	9557	-1	8	8642
1285	88658M2P	2 25	7	12	3	9850	8	1	9126
1286	88658M2S	2 26	187	3	2	9586	0	5	8751
1287	88658M2P	2 27	14	0	2	9669	-4	-8	9287
1288	88658M2S	2 28	19	-2	5	7844	-5	-17	9038
1289	88652MFP	2 29	37	0	2	9944	-1	5	6291
1290	88652MFS	2 30	14	8	6	7565	3	8	9515
1291	88656F1	2 31	19	9	2	9922	8	-11	8431
1292	88656F1S	2 32	45	2	2	9892	7	1	4078
1293	88656M2P	2 33	14	6	2	9549	2	7	8523
1294	88657M2P	2 34	9	6	2	9895	-1	8	9014
1295	88657M2S	2 35	17	10	3	9976	4	0	7145
1296	88657M2P	2 36	17	-1	3	8936	-2	1	6823
1297	88657M2S	2 37	19	7	7	9154	2	26	9782
1298	88657M2P	2 38	157	8	1	9996	5	9	9778
1299	88657M2S	2 39	19	0	11	2417	12	23	9016
1300	886P118A	2 40	0	0	0	2401	0	0	0000
1301	886P118B	2 41	63	7	3	9566	-7	2	9243
1302	886P218A	2 42	15	10	2	9778	10	22	8874
1303	886P218B	2 43	81	10	3	9957	3	22	9085
1304	886P218A	2 44	31	0	2	9780	-2	6	4683
1305	886P218B	2 45	-127	6	3	9993	7	-3	8295
1306	8865718A	2 46	117	10	3	9988	8	6	9015
1307	8865718B	2 47	17	8	8	8760	11	-21	8319
1308	8865718A	2 48	189	12	14	9700	-2	-22	5435
1309	8865718B	2 49	137	5	1	9883	0	-7	9366
1310	8865718A	2 50	1	4	3	8629	3	-33	9925
1311	8865718B	2 51	0	3	5	7153	0	-5	7880
1312	88657218A	2 52	54	3	5	9725	0	-23	9769
1313	88657218B	2 53	56	5	4	9818	-2	-34	9922
1314	88657218A	2 54	-236	0	5	9990	-1	-73	9990
1315	88657218B	2 55	250	1	8	9978	-5	179	9988
1316	88657218A	2 56	1	-5	4	8658	-13	2	8832
1317	88657218B	2 57	1	-6	8	6695	-11	2	9218
1318	88657218A	2 58	0	-9	6	9108	-7	3	7432
1319	88657218B	2 59	1	-7	3	9569	-10	2	8516
1320	88657218A	2 60	3	15	4	9777	-13	-4	8186
1321	8920022P	2 A 1	171	9	17	9736	13	54	9919
1322	8920022S	2 A 2	403	7	5	9997	4	28	9847
1323	8920422P	2 A 3	49	7	7	9307	-3	19	8844
1324	8920422S	2 A 4	205	1	12	9924	2	26	9829
1325	8920822P	2 A 5	197	27	41	8574	12	18	9053
1326	8920822S	2 A 6	59	11	22	6546	2	24	8271
1327	89208M2P	2 A 7	28	7	16	3988	9	21	9696
1328	89208M2S	2 A 8	17	4	12	7344	1	14	9305
1329	89208M2P	2 A 9	33	9	5	6946	6	30	9550
1330	89208M2S	2 A 10	-26	7	18	7426	-14	10	3972
1331	89208M2P	2 A 11	-38	9	19	8217	1	55	9918
1332	89208M2S	2 A 12	-50	16	18	9231	8	22	9241
1333	89208MFP	2 A 13	6	3	14	1249	4	11	8101
1334	89208MFS	2 A 14	-168	4	3	9991	3	3	8314
1335	89208MFP	2 A 15	-100	9	7	9917	5	26	9847
1336	89208MFS	2 A 16	-145	14	6	9978	9	-19	5690
1337	89208MFP	2 A 17	2	12	49	2090	198	-118	1507
1338	89208MFS	2 A 18	11	-2	21	2121	5	6	4743
1339	89206F1P	2 A 19	-58	5	13	9226	16	6	7914
1340	89206F1S	2 A 20	-45	8	2	9969	7	0	8655
1341	8925422P	2 A 21	17	17	16	7590	16	-86	9698
1342	8925422S	2 A 22	-228	12	49	9235	-19	65	6270
1343	8925822P	2 A 23	112	9	23	8854	4	-29	9432
1344	8925822S	2 A 24	-80	9	20	9201	-53	5	8671
1345	89258M2P	2 A 25	3	17	6	9468	19	-13	5075
1346	89258M2S	2 A 26	57	3	11	8842	2	-44	9751
1347	89258M2P	2 A 27	-45	5	12	9083	1	-37	9874
1348	89258M2S	2 A 28	-86	-1	23	8623	-11	-12	8850
1349	89252MFP	2 A 29	1	2	6	2840	1	-1	1822
1350	89252MFS	2 A 30	-30	6	8	9274	6	6	9564

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% DRIFT	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1351	B9256FIP	2-A-31	-68	11	6	9909	-1	-5	5	4267
1352	B9256FIS	2-A-32	-49	8	4	9908	2	10	4	7810
1353	B92P 2MHRH	2-A-33	-58	6	6	9818	-4	28	15	5883
1354	B92P 2MHRD	2-A-34	-83	7	5	9952	-1	10	3	8539
1355	B92P 2MHRV	2-A-35	-9	11	3	9892	10	4	2	9544
1356	B92P711RV	2-A-36	0	-3	2	8651	-2	0	1	8083
1357	B92P711RD	2-A-37	-91	8	6	9930	-1	-14	4	8786
1358	B92P711RH	2-A-38	-86	6	4	9971	-2	2	3	1516
1359	B92P11F1RV	2-A-39	4	10	3	9714	3	19	3	9538
1360	B92P11F1RD	2-A-40	0	0	1	2312	0	0	1	1045
1361	B92P11F1RH	2-A-41	-65	9	5	9922	2	8	6	5541
1362	B92P11 9FFRV	2-A-42	22	9	4	9242	5	29	5	9429
1363	B92P11 9FFRD	2-A-43	49	12	3	9794	13	13	3	9665
1364	B92P11 9FFRH	2-A-44	17	3	3	8485	-4	40	7	9309
1365	B925711RH	2-A-45	-67	12	3	9971	2	-2	4	0773
1366	B925711RD	2-A-46	-20	10	8	9322	6	8	5	7920
1367	B925711RV	2-A-47	-40	11	4	9928	9	-18	4	8391
1368	B92511F1RH	2-A-48	-70	12	4	9959	7	-28	5	9131
1369	B92511F1RC	2-A-49	-1	5	5	8083	3	11	6	7815
1370	B92511F1RV	2-A-50	-187	-1	253	2237	-2	-3	3	2012
1371	B92511 9FFRH	2-A-51	14	4	5	6643	-11	-42	14	8584
1372	B92511 9FFRD	2-A-52	34	1	5	9523	1	-32	4	9589
1373	B92511 9FFRV	2-A-53	28	7	5	8875	1	-18	5	8584
1374	F91511 9P(BB)	2-A-54	156	2	7	9945	1	-86	6	9894
1375	M87 5P10S(IPST)	2-A-55	-264	1	11	9959	0	-85	3	9970
1376	RESISTOR	2-A-56	19	-3	21	4639	-16	-4	6	8828
1377	RESISTOR	2-A-57	239	-28	326	0890	0	0	0	1 0000
1378	RESISTOR	2-A-58	-4	-6	8	6544	-9	-2	6	7038
1379	RESISTOR	2-A-59	10	7	12	1491	0	0	0	1 0000
1380	M79 5C0(D)	2-A-60	-5	14	5	9733	9	-5	4	7025
1381	M93 6P8W	2-B-1	-299	12	4	9997	7	-66	2	9973
1382	M93 6P8 5P	2-B-2	-298	9	3	9988	4	-65	2	9972
1383	M93 6P9W	2-B-3	-297	4	3	9996	6	-81	2	9987
1384	M93 6P9 5P	2-B-4	-215	-5	4	9992	-2	-49	2	9963
1385	M93 6P10W	2-B-5	-303	18	3	9998	17	-87	4	9929
1386	M93 6P11W	2-B-6	-259	7	1	9999	5	-81	1	9994
1387	M92 8P8W	2-B-7	-89	10	5	9945	9	-85	3	9976
1388	M92 8P8 5RH	2-B-8	174	6	2	9997	1	44	3	9915
1389	M92 8P8 5RD	2-B-9	18	10	2	9779	10	-127	3	9984
1390	M92 8P8 5RL	2-B-10	-399	12	2	9999	9	-78	2	9984
1391	M92 8P9W	2-B-11	-362	6	5	9999	5	-85	2	9990
1392	M92 8P9 5P	2-B-12	-232	2	5	9990	6	-61	1	9987
1393	M92 8P10W	2-B-13	-312	5	3	9998	6	-82	3	9968
1394	M92 8P11W	2-B-14	-201	6	2	9998	6	-91	1	9993
1395	M92 8P12W	2-B-15	-232	6	3	9997	7	-89	1	9994
1396	M92 2P8W	2-B-16	-52	12	7	9827	13	-99	4	9964
1397	M85 9P11P(LP)	2-B-17	2	10	4	9544	5	-138	1	9997
1398	M92 2P8 5P	2-B-18	137	-5	27	9312	2	-141	4	9984
1399	B92P7MMS(C)	2-B-19	-180	9	9	9951	9	-20	3	9187
1400	M92 3P9S	2-B-20	-322	7	7	9991	8	-96	3	9980
1401	M92 3P9 2RH	2-B-21	52	11	5	9644	14	49	3	9945
1402	M92 3P9 2RD	2-B-22	106	18	9	9681	7	-96	2	9984
1403	M92 3P9 2RL	2-B-23	-398	3	2	9999	3	-80	3	9976
1404	M92 3P9 5P	2-B-24	-510	8	23	9956	-4	-97	3	9982
1405	M92 3P10S	2-B-25	-299	14	3	9999	13	-89	2	9978
1406	M92 3P11S	2-B-26	-219	5	2	9999	6	-103	2	9993
1407	M92 3P12S	2-B-27	-261	1	2	9999	3	-72	3	9953
1408	M91 6P8S	2-B-28	-411	6	10	9986	-1	-39	9	8888
1409	M91 6P8 2P	2-B-29	-242	3	2	9998	4	-86	2	9987
1410	M91 6P8 5P	2-B-30	-273	6	4	9994	1	-72	6	9853
1411	M91 6P9W	2-B-31	-161	18	30	9546	13	-80	3	9959
1412	M91 6P9 5P	2-B-32	-226	9	3	9997	10	-93	3	9974
1413	M91 6P9 7RL	2-B-33	-216	-1	11	9336	27	-89	23	8066
1414	M91 6P9 7RH	2-B-34	455	-5	25	9935	-48	-84	21	9472
1415	M91 6P9 7RD	2-B-35	66	10	2	9945	6	52	3	9939
1416	M91 6P10W	2-B-36	-4	-4	2	8700	-2	0	2	4851
1417	M91 6P11W	2-B-37	-259	2	10	9974	-7	-90	5	9948
1418	M91 6P12W	2-B-38	-269	6	6	9990	6	-88	2	9984
1419	H86 1P19P(HSU)	2-B-39	681	9	3	9999	-7	-56	3	9941
1420	H86 1P19P(HSL)	2-B-40	0	0	2	2242	0	0	0	1 0000
1421	H84S 1MHR(CUST)	2-B-41	5	9	13	6477	-6	-17	4	9208
1422	H71 9P15P(C)	2-B-42	263	4	5	9982	4	-277	5	9992
1423	H71P9P(C)	2-B-43	312	-1	10	9978	0	-152	4	9987
1424	B64P8 5MFRV(BB)	2-B-44	-83	-7	13	8666	-5	-22	3	9742
1425	B64P8 5MFRD(BB)	2-B-45	-195	14	10	9959	0	-34	3	9859



TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION ESTIMATE COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT		
1426	B64PB 5MFRH18B	2-B-46	94	14	16	9662	5	10	9	5855
1427	M805951SU1	2-B-47	85	0	7	9843	6	98	2	9988
1428	M805951SL1	2-B-48	84	21	11	9865	7	33	4	9868
1429	H75 5518P1FC1	2-B-49	48	3	2	9922	1	-52	1	9989
1430	H75520P1C01	2-B-50	-166	4	4	9985	0	219	4	9958
1431	RESISTOR	2-B-51	8	-2	10	5508	-13	4	6	6642
1432	RESISTOR	2-B-52	-2	-1	1	4647	0	0	0	1 0000
1433	RESISTOR	2-B-53	-23	-13	26	3894	0	0	0	1 0000
1434	RESISTOR	2-B-54	22	12	25	3907	0	0	0	1 0000
1435	RESISTOR	2-B-55	3	-6	4	9285	-13	4	4	6210
1436	RESISTOR	2-B-56	-5	-5	4	8502	-12	4	4	8513
1437	RESISTOR	2-B-57	2	-2	5	6294	-12	4	6	6571
1438	RESISTOR	2-B-58	0	-6	4	9155	-8	4	4	6732
1439	RESISTOR	2-B-59	-14	-8	16	3896	0	0	0	1 0000
1440	H89P19 1	2-B-60	2	17	6	9646	12	-1	3	8983
1441	Z87CDW	1-B-1	-183	8	6	9977	4	0	1	7833
1442	Z87CDW	1-B-2	-183	4	3	9994	0	14	2	8521
1443	Z91CDW	1-B-3	-55	13	4	9961	8	-2	2	8649
1444	W91 95MZO 1RL	1-B-4	-23	13	5	9813	11	25	2	9902
1445	W91 95MZO 1RD	1-B-5	-1024	0	23	9968	-1	87	3	9976
1446	W91 95MZO 1RY	1-B-6	44	10	17	6302	7	-51	2	9947
1447	M87CDW	1-B-7	-330	6	17	9941	-45	12	32	5421
1448	M8755 1P	1-B-8	-298	0	12	9964	-1	97	4	9824
1449	M875 1	1-B-9	-228	2	5	9990	-6	105	3	9975
1450	M89CDW	1-B-10	0	0	0	1 0000	0	0	0	1 0000
1451	M8955 1P	1-B-11	255	3	4	9995	0	96	2	9994
1452	M89512	1-B-12	0	0	0	1 0000	0	0	0	1 0000
1453	M89P9 1P	1-B-13	-228	10	3	9997	3	-102	3	9972
1454	M89P12	1-B-14	0	0	0	1 0000	0	0	0	1 0000
1455	M87CDW	1-B-15	-224	-19	46	8790	-65	-18	41	7289
1456	M9159 1P	1-B-16	263	7	23	9847	2	67	7	9756
1457	M91512	1-B-17	-158	4	2	9999	4	104	1	9998
1458	M93CDW	1-B-18	0	0	0	1 0000	0	0	0	1 0000
1459	M93512	1-B-19	-149	14	2	9999	9	91	3	9981
1460	M93P12	1-B-20	0	0	0	1 0000	0	0	0	1 0000
1461	M97CDW	1-B-21	-159	4	2	9996	1	1	2	1932
1462	M97512	1-B-22	-142	6	1	9986	1	63	2	9955
1463	M97P12	1-B-23	-167	10	3	9968	9	-49	2	9961
1464	M99CDW	1-B-24	153	5	3	9992	0	0	2	2353
1465	M99512	1-B-25	-54	5	3	9938	-1	34	2	9919
1466	M101CDW	1-B-26	-128	14	3	9994	15	-4	3	9395
1467	M101512	1-B-27	-117	1	4	9978	-9	41	2	9890
1468	M101P12	1-B-28	0	0	0	1 0000	0	0	0	1 0000
1469	M103CDW	1-B-29	0	0	0	1 0000	-1	-1	2	3838
1470	M103512	1-B-30	-116	8	5	-9968	5	36	5	9640
1471	M103CDW	1-B-31	-130	15	4	9985	7	-2	4	5674
1472	M105212	1-B-32	-150	13	4	9991	13	26	3	9881
1473	M105P12	1-B-33	0	0	0	1 0000	0	0	0	1 0000
1474	M107512	1-B-34	-93	6	1	9991	3	32	1	9970
1475	M107CDW	1-B-35	-203	7	2	9988	-1	-1	2	4514
1476	M99CDW	1-B-36	-14	4	3	9250	1	-2	1	2303
1477	M99CDW	1-B-37	184	6	2	9996	4	-2	2	6969
1478	M103CDW	1-B-38	65	7	3	9916	2	0	2	4545
1479	M93CDW	1-B-39	0	0	0	1 0000	0	0	0	1 0000
1480	M97CDW	1-B-40	5248	604	2777	-5373	5	-4	3	6203
1481	M97CDW	1-B-41	152	9	4	9980	4	-1	2	7855
1482	M103CDW	1-B-42	197	14	5	9983	0	-2	2	0891
1483	M103CDW	1-B-43	31	6	15	5228	-10	-2	12	3039
1484	M105CDW	1-B-44	144	11	39	8602	17	-20	8	6562
1485	M105CDW	1-B-45	-51	14	8	9802	8	-6	3	7082
1486	ASM279C120	1-B-46	-706	77	67	9873	1	80	2	9988
1487	ASM279C112(RES)	1-B-47	-452	27	32	9910	2	82	1	9993
1488	ASM287C315	1-B-48	-1744	-4	9	9999	141	59	180	4548
1489	ASM287C30F	1-B-49	-1848	-7	7	9999	-340	284	95	8192
1490	ASM287C30G	1-B-50	-1654	0	7	9999	20	195	7	9977
1491	ASM287C293	1-B-51	-1414	9	6	9999	7	183	3	9996
1492	ASM287RVMF	1-B-52	-344	3	3	9999	2	98	1	9996
1493	ASM287HDMF	1-B-53	225	10	3	9995	91	139	15	9907
1494	ASM287PLMF	1-B-54	163	14	5	9971	4	-12	4	7092
1495	R9257M2P(BM)	1-B-55	31	9	12	9036	7	-50	5	9890
1496	R9257M2S(BM)	1-B-56	-63	6	16	9808	-8	-11	10	6337
1497	RESISTOR	1-B-57	6	3	5	5004	7	1	6	5014
1498	RESISTOR	1-B-58	6	7	5	8497	1	2	4	1512
1499	RESISTOR	1-B-59	0	0	0	1 0000	0	0	0	1 0000
1500	H92P1(D)	1-B-60	2	11	2	9950	13	-1	3	9210

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% DRIFT	ERROR OF LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1501	B98CDMMS	1-A-1	-486	6	14	.9981	2	7	2	9091
1502	B98CDMMP	1-A-2	243	3	11	.9948	-2	4	3	3130
1503	B98P4MMP	1-A-3	47	12	6	.9266	5	8	3	8777
1504	B98P4MMS	1-A-4	0	0	0	1.0000	0	0	0	1.0000
1505	B98P9MMP	1-A-5	-159	-1	9	.9922	0	10	4	7103
1506	B98P9MMS	1-A-6	-161	9	12	.9897	12	-24	7	7211
1507	B98CDMFP	1-A-7	91	10	17	.8881	2	-49	27	6127
1508	B98COMFS	1-A-8	-62	6	32	7327	3	2	1	9180
1509	B98PSMFP	1-A-9	39	2	21	6013	-10	15	5	6671
1510	B98PSMFS	1-A-10	125	9	24	8977	0	42	6	9564
1511	B98P6F1P	1-A-11	-19	6	15	7149	-3	28	4	9530
1512	B98CDF1S	1-A-12	0	0	0	1.0000	0	0	0	1.0000
1513	B98CDF1P	1-A-13	5	11	9	8321	3	8	1	9677
1514	B98P6F1S	1-A-14	-55	1	11	9241	-25	-3	10	8399
1515	B98S4MMP	1-A-15	82	6	12	9364	1	-4	3	4242
1516	B98S4MMS	1-A-16	-130	11	20	9634	-90	56	30	7812
1517	B98P8MMP	1-A-17	80	6	11	9461	3	24	5	9368
1518	B98S8MMS	1-A-18	-34	2	19	6832	4	-59	8	9594
1519	B98S3MFP	1-A-19	-9	15	10	9277	10	2	3	8660
1520	B98S4MFS	1-A-20	34	2	11	7682	0	7	6	4305
1521	B98S6F1P	1-A-21	-12	3	9	7183	-7	3	3	7492
1522	B98S6F1S	1-A-22	-2	6	32	1478	-7	20	2	8622
1523	B98P 2HHRM	1-A-23	-104	13	17	9667	4	6	4	7462
1524	B98P 2HHRD	1-A-24	82	7	15	9052	-17	3	4	9211
1525	B98P 2HHRV	1-A-25	-10	5	10	7438	-7	9	3	6570
1526	B98P711RD	1-A-26	-84	15	11	9808	14	32	5	9773
1527	B98P711RV	1-A-27	7	164	174	7970	-1	-10	3	8765
1528	B98P711RH	1-A-28	-142	16	6	9975	17	18	6	9337
1529	B98P11 SF1RV	1-A-29	41	-11	23	8142	-2	-7	3	9830
1530	B98P11 SF1RD	1-A-30	241	10	16	9671	3	-32	5	9464
1531	B98P11 SF1RH	1-A-31	-175	15	19	9810	9	56	6	9790
1532	B98P11 9FFRV	1-A-32	14	12	11	7640	12	55	5	9867
1533	B98P11 9FFRD	1-A-33	248	12	11	9947	5	13	4	8930
1534	B98P11 9FFRH	1-A-34	18	5	10	4847	2	50	10	9272
1535	B98S711RH	1-A-35	97	7	7	9974	-17	-3	5	9023
1536	B98S711RD	1-A-36	-50	5	14	8938	3	40	6	9507
1537	B98S711RV	1-A-37	-16	5	15	6737	3	-32	3	9757
1538	B98S11 SF1RV	1-A-38	-166	8	9	9940	-1	-64	8	9639
1539	B98S11 SF1RD	1-A-39	175	6	18	9719	-63	51	62	3105
1540	B98S11 SF1RV	1-A-40	-194	-135	206	5446	0	0	0	1.0000
1541	B98S11 9FFRV	1-A-41	19	10	4	9139	12	-104	16	8403
1542	B98S11 9FFRD	1-A-42	258	12	7	9981	7	24	4	9634
1543	B98S11 9FFRV	1-A-43	30	7	13	5888	7	-29	2	9822
1544	B98S10MFS	1-A-44	123	6	37	8046	7	-139	12	9805
1545	B98S10MFP	1-A-45	64	14	14	8251	12	73	12	9589
1546	H100P20P1FC	1-A-46	-499	6	10	9991	4	430	6	9996
1547	ASMM77C15F	1-A-47	-1022	19	10	9998	-4	-53	5	9994
1548	ASMM77C25F	1-A-48	-35	3	10	8852	5	-20	5	8293
1549	ASMM77C35F	1-A-49	-264	18	15	9943	-3	206	8	9966
1550	ASMM77C45F	1-A-50	-250	12	21	9667	17	316	112	8037
1551	ASMM77C55F	1-A-51	-587	17	8	9996	6	99	3	9978
1552	ASMM77C15A	1-A-52	-350	9	6	9993	36	262	3	9998
1553	ASMM77C25A	1-A-53	-351	11	9	9986	9	267	3	9988
1554	ASMM77C35A	1-A-54	-84	-2	21	8734	-27	9	25	8155
1555	ASMM77C45A	1-A-55	-495	10	13	9986	-4	513	9	9993
1556	ASMM77C55A	1-A-56	-312	-38	129	6386	-6	364	6	9993
1557	ASMM77P35A0 5	1-A-57	-931	21	21	9990	3	100	3	9981
1558	ASMM77P35A1 5	1-A-58	-613	19	28	9958	4	91	3	9989
1559	ASMM77P35A3 0	1-A-59	0	0	0	1.0000	0	0	0	1.0000
1560	H103S19(D)	1-A-60	-277	21	11	9975	3	149	2	9997
1561	B108P9MFP	1-B-1	-18	9	2	9953	-4	13	2	9317
1562	B108CDMMS	1-B-2	24	3	5	8485	-3	5	2	6047
1563	B108P4MMP	1-B-3	-59	13	3	9978	-3	10	7	4069
1564	B108P4MMS	1-B-4	0	0	0	1.0000	0	0	0	1.0000
1565	B108P8MMP	1-B-5	-37	9	4	8887	-13	9	4	7607
1566	B108P8MMS	1-B-6	-39	8	4	9914	10	7	3	9569
1567	RESISTOR	1-B-7	-2	2	12	1309	16	51	25	7653
1568	B108COMFS	1-B-8	-58	-3	12	8980	-2	8	3	6519
1569	B108P4MFP	1-B-9	-57	6	4	9922	-8	20	4	8683
1570	B108P4MFS	1-B-10	83	12	3	9957	6	18	2	9880
1571	RESISTOR	1-B-11	0	5	5	8216	-17	5	6	7885
1572	B108CDF1S	1-B-12	0	0	0	1.0000	0	0	0	1.0000
1573	B108P6F1P	1-B-13	-22	12	2	9960	-3	12	4	7269
1574	B108P6F1S	1-B-14	6	7	2	9781	1	-6	2	8358
1575	B108S4MMP	1-B-15	-65	10	3	9981	-2	-1	2	5326

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
1576	B10854MMS	1-B-16	-52	12	2	9982	9	7	2	9763
1577	B10854MMP	1-B-17	-40	9	1	9988	0	-1	1	9926
1578	B10854MMS	1-B-18	-27	-6	3	9395	0	5	2	9084
1579	B10854MFP	1-B-19	-52	19	3	9982	7	11	2	9797
1580	B10854MFS	1-B-20	88	4	4	9940	-1	9	2	8335
1581	B10856F1P	1-B-21	-31	6	1	9981	0	-3	2	8476
1582	B10856F1S	1-B-22	34	0	4	9580	-6	-2	8	4465
1583	B108P 2MHRH	1-B-23	-531	13	4	9599	6	-25	2	9749
1584	B108P 2MHRD	1-B-24	-595	11	21	9573	2	6	2	9153
1585	B108P 2MHRV	1-B-25	0	0	0	1 0000	0	0	0	1 0000
1586	B108P711RV	1-B-26	64	15	2	9343	12	-2	2	9667
1587	B108P711RD	1-B-27	11	3	3	9993	-10	-35	3	9904
1588	B108P711RH	1-B-28	-302	14	4	9997	19	-3	4	9383
1589	B108P10 5FIRV	1-B-29	160	5	3	9993	0	3	3	4211
1590	B108P10 5FIRD	1-B-30	349	7	3	9998	3	-23	1	9942
1591	B108P10 5FIRH	1-B-31	-75	12	4	9974	1	-7	5	4559
1592	B108P10 9FFRV	1-B-32	-15	12	2	9943	0	33	3	9856
1593	B108P10 9FFRD	1-B-33	265	15	3	9996	3	14	3	9387
1594	B108P10 9FFRH	1-B-34	18	7	2	9690	-4	-12	3	9423
1595	B1085711RH	1-B-35	-256	7	3	9998	1	-30	2	9918
1596	B1085711RD	1-B-36	33	7	2	9744	232	19	60	9180
1597	B1085711RV	1-B-37	56	7	2	9950	7	1	1	4231
1598	B108510 5FIRH	1-B-38	-212	9	3	9996	-2	-25	2	8845
1599	B108510 5FIRD	1-B-39	201	11	2	9998	-1	69	2	9978
1600	B108510 5FIRV	1-B-40	293	1	25	9826	-241	197	107	6597
1601	B108510 9FFRH	1-B-41	-18	10	3	9888	3	-84	4	9935
1602	B108510 9FFRD	1-B-42	65	9	6	9751	4	-156	6	9958
1603	B108510 9FFRV	1-B-43	12	0	2	9375	40	-126	14	9546
1604	B108P9MFS	1-B-44	-71	7	2	9993	2	4	1	9307
1605	APMM77C1PA	1-B-45	-427	12	4	9998	3	-469	3	9999
1606	APMM77C2PA	1-B-46	-549	7	2	9999	-1	-507	2	9999
1607	APMM77C3PA	1-B-47	-520	5	2	9999	-2	-615	2	9999
1608	APMM77C4PA	1-B-48	-1001	8	4	9999	-4	-78	14	9346
1609	APMM77C5PA	1-B-49	-293	7	4	9996	6	-179	4	9984
1610	APMM77P3PAC 5	1-B-50	-360	8	2	9999	15	-237	6	9982
1611	APMM77P3PA1 5	1-B-51	-311	13	4	9997	7	-225	3	9997
1612	APMM77P3PA3 0	1-B-52	-308	8	3	9998	1	-165	1	9998
1613	APMM77C1PF	1-B-53	-560	12	4	9999	4	-86	2	9981
1614	APMM77C2PF	1-B-54	-584	11	6	9998	2	-76	4	9948
1615	APMM77C3PF	1-B-55	872	13	5	9999	-4	-79	3	9962
1616	APMM77C4PF	1-B-56	-368	2	5	9996	-8	-266	7	9986
1617	APMM77C5PF	1-B-57	-939	-21	24	9983	5	51	3	9950
1618	ASM279C131	1-B-58	-881	39	46	9949	6	24	3	9715
1619	ASM279C127	1-B-59	0	0	0	1 0000	0	0	0	1 0000
1620	H108CFEID:	1-B-60	0	13	2	9955	8	2	2	9198
1621	M95P10W	01-11	-150	12	2	9998	11	-53	2	9946
1622	M95P7W	01-12	-253	14	2	9998	12	-26	2	9726
1623	M95P2W	01-13	-176	14	2	9998	14	-4	2	9594
1624	M95C0W	01-14	0	0	0	1 0000	0	0	0	1 0000
1625	M95S2W	01-15	-181	14	4	9992	15	8	3	9664
1626	M95S4W	01-16	-162	14	3	9994	15	13	3	9798
1627	M95S6W	01-17	-211	13	8	9974	11	37	6	9652
1628	M95S8W	01-18	-267	14	2	9999	14	35	2	9955
1629	M95S10W	01-19	9	6	5	7712	7	27	4	9756
1630	M95S10 5P	01-20	-31	9	6	9735	9	38	3	9918
1631	M95S11A	01-21	-32	19	9	9735	2	34	4	9709
1632	M95S11 5P	01-22	-61	15	9	9801	0	34	4	9636
1633	M95S12W	01-23	-23	8	5	9667	9	42	3	9930
1634	H92P9 5P1BR1	01-24	29	3	14	5757	12	7	4	9110
1635	M95S1W	01-25	167	15	3	9990	12	3	3	9398
1636	M95S4W	01-16	157	6	6	9957	11	11	4	9458
1637	M95P4W	01-17	145	14	2	9991	11	-24	2	9677
1638	M95S5W	01-18	137	12	3	9984	10	21	2	9940
1639	M95S7W	01-19	141	12	2	9990	12	29	2	9955
1640	M95P7W	01-20	137	12	1	9996	12	-32	2	9800
1641	M95S9W	01-21	104	12	2	9983	11	34	2	9971
1642	M95S11A	01-22	0	0	0	1 0000	0	0	0	1 0000
1643	M95P11W	01-23	81	9	3	9946	12	-46	2	9920
1644	M95S12W	01-24	85	11	2	9967	10	48	2	9977
1645	M95S13W	01-25	78	11	3	9949	9	47	2	9978
1646	M95P13W	01-26	0	0	0	1 0000	0	0	0	1 0000
1647	M95S15W	01-27	6	16	3	9901	9	56	2	9986
1648	M95S16 5P	01-28	-56	16	4	9989	11	61	3	9968
1649	M95P16 5P	01-29	35	12	2	9974	7	-62	2	9958
1650	M95S17W	01-30	-57	11	2	9980	10	60	2	9986

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	DRIFT	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1651	H95517W	0- -31	-112	13	3	.9991	5	53	2	9974
1652	H95519W	0- -32	-121	12	4	.9985	10	-61	2	9979
1653	H80595(BMSU)	0- -33	-151	8	5	.9980	-50	66	52	3401
1654	B925MM7(BMSL)	0- -34	-585	2	7	.9996	9	-77	3	9941
1655	H49COP	0- -35	0	0	0	1.0000	0	0	0	1.0000
1656	H61COP	0- -36	0	0	0	1.0000	0	0	0	1.0000
1657	H73COP	0- -37	0	0	0	1.0000	0	0	0	1.0000
1658	H75COP	0- -38	600	7	18	.9979	17	-36	26	3523
1659	H77COP	0- -39	0	0	0	1.0000	0	0	0	1.0000
1660	H79COP	0- -40	504	14	5	.9998	14	-10	4	8403
1661	H81COP	0- -41	456	9	1	.9999	5	-7	3	5849
1662	H83COP	0- -42	0	0	0	1.0000	0	0	0	1.0000
1663	H85COP	0- -43	406	8	8	.9990	8	-6	13	0976
1664	H87COP	0- -44	325	10	3	.9986	6	1	3	7860
1665	H91COP	0- -45	306	10	26	.9805	8	-5	4	5993
1666	H93COP	0- -46	229	13	3	.9993	8	-10	7	4104
1667	H95COP	0- -47	604	30	351	.5565	14	-4	4	8281
1668	H97COP	0- -48	0	0	0	1.0000	0	0	0	1.0000
1669	H99COP	0- -49	48	12	4	.9705	6	-2	3	7127
1670	H101COP	0- -50	69	9	8	.9452	9	-19	11	4323
1671	H103COP	0- -51	0	0	0	1.0000	0	0	0	1.0000
1672	H105COP	0- -52	55	11	4	.9769	9	1	1	9722
1673	H107COP	0- -53	-22	6	8	.8966	7	4	2	9449
1674	H89COP	0- -54	0	0	0	1.0000	0	0	0	1.0000
1675	H865FF(C)	0- -55	-13	9	3	.9896	8	196	2	9997
1676	B80PMMRN	0- -56	13	12	2	.9934	9	-5	2	8986
1677	B80PMMRD	0- -57	55	12	3	.9845	6	58	2	9978
1678	B80PMMRV	0- -58	-263	8	4	.9995	9	46	2	9955
1679	B80P19P18(FC)	0- -59	-210	8	2	.9998	7	-207	2	9998
1680	H96519(D)	0- -60	-4	17	4	.9881	17	-2	3	9472
1681	B92P7MMS	0-A- 1	-256	15	15	.9940	5	6	2	9491
1682	B92P7MMP	0-A- 2	-86	7	10	.9765	11	55	2	9973
1683	B925AMMS	0-A- 3	-313	18	26	.9873	7	-84	5	9917
1684	B9258MMP	0-A- 4	0	0	0	1.0000	0	0	0	1.0000
1685	B86COMMP	0-A- 5	-157	11	3	.9996	-0	6	3	9313
1686	B86COMMS	0-A- 6	172	10	4	.9983	4	7	3	9105
1687	B86P7MMP	0-A- 7	-126	5	4	.9978	0	1	4	2097
1688	B86P7MMS	0-A- 8	93	13	2	.9968	8	-6	2	8245
1689	B80P1MMS	0-A- 9	-63	-3	7	.9277	-3	19	3	9137
1690	B80P1MMP	0-A-10	19	9	6	.8103	8	13	2	9726
1691	F82P11M	0-A-11	-107	14	12	.9833	1	-55	5	9839
1692	H80P17(LF)	0-A-12	-95	13	12	.9789	-5	-89	4	9963
1693	B86P20(C)	0-A-13	14	5	6	.8478	5	33	5	9652
1694	B86P11MMRH	0-A-14	22	2	13	.4754	10	17	4	9440
1695	B86P11MMRD	0-A-15	31	9	4	.9425	8	32	3	9900
1696	B86P11MMRV	0-A-16	-2	6	4	.9367	8	22	3	9823
1697	B86P11MP(HSU)	0-A-17	28	11	14	.5763	6	31	3	9890
1698	B86P11MP(HSL)	0-A-18	-20	10	3	.9930	4	22	3	9647
1699	F86P11P(C)	0-A-19	-28	10	2	.9956	0	-9	2	8919
1700	B80P11FIP(BB)	0-A-20	91	10	2	.9984	7	22	1	9919
1701	H80P15P16P(LF)	0-A-21	140	8	2	.9994	5	-216	2	9998
1702	B86P9W(C)	0-A-22	0	0	0	1.0000	0	0	0	1.0000
1703	B86P8 SP(BB)	0-A-23	-6	10	2	.9882	7	-2	2	8984
1704	B80P2P(C)	0-A-24	-48	11	3	.9950	7	27	2	9934
1705	B8657MMP(C)	0-A-25	-15	9	3	.9846	8	-15	4	8300
1706	H85.9519P(C)	0-A-26	0	0	0	1.0000	0	0	0	1.0000
1707	B8059.5MFRH	0-A-27	-22	8	7	.9630	1	19	8	7392
1708	B8059.5MFRD	0-A-28	-23	11	5	.9817	6	11	5	8577
1709	B8059.5MFRV	0-A-29	52	9	2	.9909	6	-11	2	9006
1710	B925MM7(BMSU)	0-A-30	72	8	3	.9924	6	46	2	9956
1711	H80595(SL)	0-A-31	0	0	0	1.0000	0	0	0	1.0000
1712	H85.956.SP(HSU)	0-A-32	-80	9	2	.9988	6	145	2	9997
1713	H85.956.SP(HSL)	0-A-33	400	3	5	.9996	3	-37	3	9856
1714	H86535(SU)	0-A-34	0	0	0	1.0000	0	0	0	1.0000
1715	H86535(SL)	0-A-35	-98	-46	14	.9528	-56	25	15	8626
1716	H86.153.SP(HSI)	0-A-36	-61	6	2	.9983	3	110	2	9994
1717	H86.153.SP(HSD)	0-A-37	-187	12	6	.9985	2	-85	5	9919
1718	B86511.9MMRH	0-A-38	23	6	5	.8313	9	-8	7	4258
1719	B86511.9MMRD	0-A-39	83	-47	69	.8173	12	-31	9	7486
1720	B86511.9MMRV	0-A-40	70	12	3	.9920	8	-8	3	7850
1721	H86.1517.SP(HSU)	0-A-41	702	8	3	.9999	2	58	3	9955
1722	H86.1517.SP(HSL)	0-A-42	-749	10	7	.9998	6	72	6	9897
1723	H86.156.SP(HSU)	0-A-43	366	9	3	.9998	3	-92	2	9952
1724	H86.156.SP(HSL)	0-A-44	-235	10	4	.9994	7	116	3	9989
1725	H86.8819P(CU)	0-A-45	-176	9	3	.9994	4	126	3	9990

TABLE B.1 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
			SENSITIVITY/100% VERTICAL	ERROR OF DRIFT	CORRELATION COEFFICIENT	SENSITIVITY/100% LATERAL	ERROR OF DRIFT	CORRELATION COEFFICIENT		
1726	H88 5519P(1C)	O-A-46	-102	4	10	9824	0	123	9	9827
1727	H86 15651U	O-A-47	-242	11	4	9994	0	52	2	9948
1728	H86 15651L	O-A-48	-299	9	7	9988	-4	75	7	9774
1729	H86 198 SP(HSU)	O-A-49	322	10	3	9998	2	64	4	9932
1730	H86 198 SP(HSL)	O-A-50	-220	9	3	9997	-29	-138	13	9857
1731	B9257M2S(BM)	O-A-51	-148	13	15	9837	4	-36	5	9528
1732	B9257M2P(BM)	O-A-52	10	11	6	9199	3	-11	3	7997
1733	B8653MMP(BM)	O-A-53	-71	9	3	9978	-2	5	2	877
1734	B8653MMS(BM)	O-A-54	99	13	5	9681	-2	2	5	1847
1735	B8653M2P(BM)	O-A-55	2	10	2	9905	4	4	2	8799
1736	B8653M2S(BM)	O-A-56	-76	12	4	9992	4	2	2	8521
1737	B8059MMS(BM)	O-A-57	-39	13	2	9985	9	-10	3	8268
1738	B8059MMP(BM)	O-A-58	154	9	11	9847	-3	44	4	9750
1739	B8059M2S(BM)	O-A-59	-72	94	124	7874	4	-8	2	7975
1740	W89P2M2(D)	O-A-60	59	13	4	9803	0	-1	9	2511
1741	H78520P(CU)	O-B-1	-222	11	3	9995	1	213	2	9999
1742	H79520P(1C)	O-B-2	-214	10	3	9995	5	218	2	9998
1743	B80511MMP(1C)	O-B-3	-48	12	2	9973	9	5	2	9548
1744	H80511P(1C)	O-B-4	0	0	0	1 0000	0	0	0	1 0000
1745	H79 5520P(1C)	O-B-5	-153	12	3	9997	18	-62	4	9886
1746	H79 5520P(1C)	O-B-6	-80	11	2	9989	11	-57	2	9926
1747	H79 5520P(1C)	O-B-7	-58	7	3	9955	4	-59	4	8897
1748	B64C0MMP(1C)	O-B-8	-23	12	11	9145	13	-7	3	9045
1749	B5658 5MFRV(1B)	O-B-9	-6	-2	17	2257	3	-10	5	6095
1750	B5658 5MFRD(1B)	O-B-10	-43	6	9	9499	4	14	5	8671
1751	B5658 5MFRH(1B)	O-B-11	-32	14	15	9079	-5	-21	5	9383
1752	B5658 5MFRV(1B)	O-B-12	-29	12	23	7654	-2	-57	5	9768
1753	B5658 5MFRD(1B)	O-B-13	-49	3	11	9121	3	-58	5	9845
1754	B5658 5MFRH(1B)	O-B-14	-27	3	11	7694	8	-30	5	9199
1755	H64P85(SUA)	O-B-15	84	2	27	8043	6	-66	5	9837
1756	H64P85(SLA)	O-B-16	-67	7	4	9952	3	-28	3	9582
1757	H64P85(SUF)	O-B-17	-25	10	15	8434	-1	-28	3	9731
1758	H64P85(SLF)	O-B-18	-149	16	13	9892	6	-12	3	7919
1759	H64P11F(1C)	O-B-19	52	7	11	8651	4	9	5	8423
1760	H64P11F(1C)	O-B-20	134	11	6	9924	10	-5	2	8990
1761	H61 2520P(1C)	O-B-21	-446	12	5	9997	-2	335	4	9997
1762	H61 2520P(1C)	O-B-22	0	0	0	1 0000	0	0	0	1 0000
1763	H6099 5P(1C)	O-B-23	-357	16	3	9998	8	-152	2	9997
1764	H56 6P20P(1C)	O-B-24	-263	14	5	9993	7	-337	2	9999
1765	H61 3P20P(1C)	O-B-25	-267	10	3	9998	7	-319	2	9999
1766	H56 6P20P(1C)	O-B-26	0	0	0	1 0000	0	0	0	1 0000
1767	H56 6P20P(1C)	O-B-27	-366	54	53	9755	4	-312	2	9999
1768	H59 5P6P(1C)	O-B-28	-33	13	4	9935	9	2	4	8638
1769	B8059M2P(BM)	O-B-29	25	9	3	9636	4	-5	1	7822
1770	B64P8MMP(BM)	O-B-30	47	210	67	9742	-	-41	8	9243
1771	H7455P(1C)	O-B-31	-362	15	4	9998	7	103	6	9932
1772	H7355P(1C)	O-B-32	-386	11	4	9998	6	102	2	9992
1773	H6755P(1C)	O-B-33	-512	11	4	9999	3	123	1	9998
1774	H6795P(1C)	O-B-34	-407	7	6	9995	-5	-103	2	9993
1775	H67 2P5F(1C)	O-B-35	-432	15	4	9998	3	-109	2	9994
1776	H6995P(1C)	O-B-36	71	7	6	9718	2	44	2	9963
1777	H60P6P(1C)	O-B-37	-452	17	5	9998	5	-140	2	9998
1778	H94520P(1C)	O-B-38	-7	12	4	9825	9	-22	1	9457
1779	H77910 1P	O-B-39	-507	11	4	9999	7	-180	1	9998
1780	H94520P(1C)	O-B-40	42	13	3	9714	9	-21	3	9376
1781	H94516 5P(1C)	O-B-41	3	9	2	9858	-2	-6	2	8239
1782	H94516 5P(1C)	O-B-42	-35	13	3	9942	8	-17	3	8716
1783	H91P19P(1C)	O-B-43	-5	13	4	9851	6	21	2	8896
1784	H7958 5P	O-B-44	-211	14	3	9996	10	172	2	9997
1785	B86P911P	O-B-45	-83	13	3	9979	7	0	3	8537
1786	H91P19P(1C)	O-B-46	53	12	3	9875	7	35	2	9923
1787	H91P19P(1C)	O-B-47	8	14	6	9457	8	-31	2	9868
1788	H97 9P14P(1LF)	O-B-48	32	14	4	9591	3	35	5	9635
1789	H101P20P(1C)	O-B-49	-88	13	4	9969	4	-19	3	9382
1790	H80P19P(181FC)	O-B-50	-242	10	2	9998	5	-209	2	9998
1791	H79 5P18P(1C)	O-B-51	-58	10	3	9966	6	-212	2	9998
1792	H79 5P18P(1C)	O-B-52	-72	11	2	9991	8	-216	2	9998
1793	H63 9P13S(1C)	O-B-53	-374	10	8	9990	3	-75	4	9914
1794	H79 9P15P(1C)	O-B-54	28	12	3	9734	8	-200	1	9996
1795	H64P12 9P(LP)	O-B-55	-110	12	6	9959	-1	-99	12	9888
1796	H64P12 9P(SC)	O-B-56	72	9	4	9903	-2	18	4	9317
1797	H65P22P(1C)	O-B-57	68	0	7	9778	-11	38	7	9032
1798	B64P 1MMP(1C)	O-B-58	70	144	82	9428	6	-4	5	4321
1799	B64S 1MMP(1C)	O-B-59	8	4	14	5423	7	-27	2	9862
1800	B106P 1MMP(D)	O-B-60	-1	19	3	9943	10	-4	3	8876

TABLE B.2 - STATISTICAL RESULTS FROM ASEM STATIC TESTS WITH COMBINED VERTICAL AND LATERAL LOADING

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1	B8COMMP	9- -1	68	12	6	.9832	65	-9	6	.9620
2	B8P4MMP	9- -2	21	29	14	.8494	46	21	14	.8116
3	B8P7MMP	9- -3	7	8	35	.1982	57	27	53	.3704
4	B8COMFP	9- -4	0	0	0	1.0000	0	0	0	1.0000
5	B8P2MFP	9- -5	-79	43	9	.9674	-77	51	6	.9933
6	B8S4MFP	9- -6	48	-24	44	.2830	122	22	78	.5191
7	B8S7MFP	9- -7	2	-10	6	.8839	0	-16	7	.7933
8	B8S2MFP	9- -8	-63	-44	7	.9873	-73	-38	9	.9610
9	B8COMHRH	9- -9	0	0	0	1.0000	0	0	0	1.0000
10	B8COMHRD	9- -10	-384	-35	20	.9939	-380	55	26	.9906
11	B8COMHRV	9- -11	44	-15	10	.8692	36	0	11	.8316
12	B8P11IRV	9- -12	0	0	1	.3765	0	0	0	1.0000
13	B8P11IRD	9- -13	228	-91	16	.9870	219	-55	18	.9876
14	B8P11IRH	9- -14	-36	0	8	.8839	-43	-10	12	.8294
15	B8P5FFRV	9- -15	70	183	5	.9992	86	193	9	.9968
16	B8P5FFRD	9- -16	137	81	6	.9978	143	93	11	.9878
17	B8P5FFRH	9- -17	-155	-92	5	.9986	-158	-91	8	.9944
18	B8S11IRH	9- -18	-86	3	6	.9896	-89	-23	8	.9796
19	B8S11IRD	9- -19	0	0	0	1.0000	0	0	0	1.0000
20	B8S11IRV	9- -20	38	1	12	.8142	42	42	10	.9295
21	B8S5FFRH	9- -21	-142	84	9	.9905	-132	119	17	.9885
22	B8S5FFRD	9- -22	164	-135	25	.9613	217	-150	55	.9425
23	B8S5FFRV	9- -23	4	-322	9	.9990	-26	-332	9	.9990
24	B8COMMS	9- -24	-260	-15	6	.9989	-291	13	9	.9976
25	B8P4MMS	9- -25	0	0	0	1.0000	0	0	0	1.0000
26	B8P7MMS	9- -26	-105	8	2	.9986	115	7	7	.9911
27	B8COMFS	9- -27	2	2	3	.4934	-5	-1	4	.3672
28	B8P2MFS	9- -28	7	0	5	.4724	-1	-20	9	.7624
29	B8S4MMS	9- -29	-237	-36	5	.9992	-242	-29	10	.9955
30	B8S7MMS	9- -30	0	0	0	1.0000	0	0	0	1.0000
31	B8S2MFS	9- -31	-17	21	7	.8609	-20	-4	7	.7465
32	M9COS	9- -32	-40	-1	5	.9700	-40	-4	5	.9674
33	M9P11P	9- -33	30	-4	6	.9149	29	-9	6	.9383
34	M9S11P	9- -34	22	9	7	.8834	33	9	6	.9244
35	M11COS	9- -35	0	0	0	1.0000	0	0	0	1.0000
36	M11S11P	9- -36	7	23	8	.8767	6	22	7	.8627
37	M13COS	9- -37	-74	-2	9	.9637	-62	4	8	.9588
38	M13P12P	9- -38	0	0	0	1.0000	0	0	0	1.0000
39	M13S12P	9- -39	-22	31	6	.9408	-22	29	5	.9774
40	M15COS	9- -40	-102	6	9	.9802	-101	-2	8	.9852
41	M15S13P	9- -41	-92	22	7	.9818	-90	18	11	.9718
42	M17COS	9- -42	-108	0	6	.9936	-112	0	7	.9898
43	M17P13P	9- -43	-43	-28	7	.9716	-37	-24	9	.8922
44	M17S13P	9- -44	-37	41	7	.9655	-46	40	9	.9718
45	M19COS	9- -45	-149	-5	6	.9966	-152	-5	7	.9953
46	M19S13P	9- -46	-35	87	7	.9888	-36	77	10	.9644
47	M23COS	9- -47	-146	8	6	.9951	-147	7	7	.9947
48	M23S13 9P	9- -48	-190	106	6	.9979	-195	110	8	.9979
49	M25P13P	9- -49	-184	-121	4	.9995	-185	-122	8	.9962
50	M25S13P	9- -50	-175	128	5	.9983	-180	129	6	.9988
51	M27COS	9- -51	-139	5	33	.8787	-123	31	42	.8386
52	M27S14P	9- -52	-213	170	11	.9952	-220	163	14	.9963
53	M29COS	9- -53	0	0	0	1.0000	0	0	0	1.0000
54	M29P14P	9- -54	0	0	0	1.0000	0	0	0	1.0000
55	M29S14P	9- -55	-249	189	7	.9983	-251	186	10	.9986
56	M31COS	9- -56	-338	2	10	.9978	-341	-1	14	.9958
57	M31S14P	9- -57	-355	213	7	.9991	-354	213	9	.9993
58	H24 IS20P(C)	9- -58	-226	123	6	.9985	-220	126	8	.9983
59	F954P(C)	9- -59	-34	77	6	.9696	-44	82	9	.9890
60	H36P18 S(D)	9- -60	-9	1	6	.8953	-16	0	8	.6254
61	B16COMMP	9-A-1	188	-2	7	.9962	173	-14	10	.9929
62	B16COMMS	9-A-2	-251	-5	37	.9501	-261	70	66	.9019
63	B16P4MMP	9-A-3	193	43	19	.9827	197	20	18	.9824
64	B16P4MMS	9-A-4	0	0	0	1.0000	0	0	0	1.0000
65	B16P8MMP	9-A-5	198	56	33	.9848	228	29	31	.9532
66	B16P8MMS	9-A-6	-42	42	21	.7861	3	15	20	.3465
67	B16COMFP	9-A-7	76	10	11	.9597	78	-8	10	.9624
68	B16COMFS	9-A-8	92	7	10	.9764	83	-8	11	.9881
69	B16P3MFP	9-A-9	-25	59	31	.7240	-44	59	28	.7869
70	B16P3MFS	9-A-10	282	17	38	.9612	289	-23	27	.9784
71	B16CDF1P	9-A-11	101	15	14	.9614	96	-2	15	.9424
72	B16CDF1S	9-A-12	0	0	0	1.0000	0	0	1	1.149
73	B16P2P1P	9-A-13	103	38	18	.9870	126	22	16	.9854
74	B16P2P1S	9-A-14	-84	8	14	.7813	-34	5	13	.7722
75	B16S4MMP	9-A-15	137	2	12	.9824	137	-24	18	.9774

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
76	B1654MMS	9-A-16	-153	-29	7	.9858	-178	-24	20	.9471
77	B1658MMP	9-A-17	172	-31	20	.9848	175	-48	24	.9578
78	B1658MMS	9-A-18	-19	-20	17	.9857	-4	-49	25	.7476
79	B1653MFP	9-A-19	0	0	0	1.0000	0	0	0	1.0000
80	B1653MFS	9-A-20	233	-10	29	.9616	231	-44	40	.9453
81	B1652FIP	9-A-21	151	-1	15	.9751	140	-20	22	.9531
82	B1652FIS	9-A-22	-108	-29	15	.9675	-123	-24	15	.9608
83	B16COHNRH	9-A-23	-15	-23	32	.4599	-47	-28	37	.4466
84	B16COHNRD	9-A-24	-73	26	30	.7037	-79	27	34	.7855
85	B16COHNRV	9-A-25	0	0	0	1.0000	0	0	0	1.0000
86	B16P31IRV	9-A-26	95	47	24	.9276	115	35	28	.8623
87	B16P31IRD	9-A-27	117	17	28	.8989	137	-2	25	.9278
88	B16P31IRH	9-A-28	-215	23	17	.9838	-224	31	19	.9850
89	B16P7 SFFRV	9-A-29	894	93	64	.9888	789	-24	45	.9920
90	B16P7 SFFRD	9-A-30	0	0	0	1.0000	0	0	0	1.0000
91	B16P7 SFFRH	9-A-31	-354	44	16	.9953	-359	69	24	.9919
92	B16S31IRH	9-A-32	-186	-44	14	.9892	-206	-38	19	.9766
93	B16S31IRD	9-A-33	230	54	26	.9778	216	28	40	.9180
94	B16S31IRV	9-A-34	222	-1	10	.9571	190	-33	38	.9264
95	B16S7 SFFRV	9-A-35	-339	-76	29	.9861	-343	-15	24	.9878
96	B16S7 SFFRD	9-A-36	368	-41	36	.9743	421	-90	73	.9479
97	B16S7 SFFRV	9-A-37	619	-38	54	.9810	660	-139	82	.9712
98	F3CQNA	9-A-38	-57	13	14	.8672	-20	6	14	.5985
99	F13CQNA	9-A-39	-38	5	4	.9757	-34	-2	6	.9310
100	J17COP	9-A-40	205	7	10	.9945	200	-3	10	.9934
101	J21 3COP	9-A-41	149	-3	20	.9587	153	-4	14	.9797
102	F25CQNA	9-A-42	-51	6	14	.8295	-27	5	8	.5539
103	F29CQNA	9-A-43	-37	12	6	.9413	-42	6	11	.8783
104	I9COP	9-A-44	0	0	0	1.0000	0	0	0	1.0000
105	I13COP	9-A-45	36	1	4	.9702	22	-4	7	.8445
106	F17CQNA	9-A-46	-21	1	5	.8577	-25	-1	8	.8022
107	F21 3CQNA	9-A-47	-29	5	10	.7536	-22	5	15	.5918
108	H9COP	9-A-48	67	17	8	.9728	-5	-16	42	.1051
109	H11COP	9-A-49	76	7	15	.9212	66	-1	15	.8927
110	H13COP	9-A-50	0	0	0	1.0000	0	0	0	1.0000
111	H15COP	9-A-51	-1	5	21	.2110	-13	15	22	.4678
112	H17COP	9-A-52	13	6	56	.1996	96	6	61	.5449
113	H19COP	9-A-53	0	0	0	1.0000	0	0	0	1.0000
114	H23COP	9-A-54	174	4	8	.9953	177	-4	16	.9920
115	H25COP	9-A-55	233	6	7	.9979	230	-1	8	.9969
116	H27COP	9-A-56	349	1	10	.9978	342	-6	14	.9959
117	H29COP	9-A-57	433	8	8	.9995	431	1	9	.9990
118	H31COP	9-A-58	518	3	7	.9996	513	-2	8	.9994
119	H47COP	9-A-59	685	-1	6	.9998	684	-3	8	.9996
120	H1259 S1D1	9-A-60	-11	1	8	.5102	-10	0	6	.6248
121	B24CQMMP	9-B-1	98	4	7	.9883	105	-8	6	.9925
122	B24CQMMS	9-B-2	-290	24	43	.9450	-329	50	73	.9104
123	B2454MMP	9-B-3	56	0	8	.9484	44	-15	6	.9695
124	B24P4MMS	9-B-4	0	0	0	1.0000	0	0	0	1.0000
125	B2457MMP	9-B-5	38	13	7	.9526	17	7	10	.8823
126	B24P7MMS	9-B-6	-60	85	14	.9598	-7	70	16	.9394
127	B24CQMFP	9-B-7	39	5	9	.8966	43	-6	6	.9615
128	B24CQMF5	9-B-8	-30	7	8	.8390	-31	-2	8	.8468
129	B2454MFP	9-B-9	-10	-10	13	.5584	-25	-24	12	.7801
130	B24P5MFS	9-B-10	136	74	23	.9666	169	37	25	.9437
131	B24COP1P	9-B-11	46	13	9	.9395	44	3	9	.9048
132	B24COP1S	9-B-12	0	0	0	1.0000	0	0	0	1.0000
133	B24S3F1P	9-B-13	70	-12	13	.9191	47	-27	12	.9332
134	B24P3F1S	9-B-14	-65	31	8	.9593	-52	22	12	.9347
135	B24P4MMP	9-B-15	68	19	7	.9796	80	7	7	.9795
136	B2454MMS	9-B-16	-173	-45	9	.9955	-192	-55	10	.9928
137	B24P7MMP	9-B-17	94	9	5	.9940	112	1	8	.9932
138	B2457MMS	9-B-18	-24	-52	21	.8711	-48	-82	23	.8908
139	B24P5MFP	9-B-19	0	0	0	1.0000	0	0	0	1.0000
140	B2454MFS	9-B-20	68	-2	9	.9649	55	-10	9	.9496
141	B24P3F1P	9-B-21	72	27	13	.9548	73	19	12	.9290
142	B24S3F1S	9-B-22	-44	-17	7	.9601	-59	-23	8	.9505
143	B24COHNRH	9-B-23	-207	25	9	.9845	-219	25	17	.9877
144	B24COHNRD	9-B-24	-94	20	12	.9592	-99	23	14	.9663
145	B24COHNRV	9-B-25	0	0	0	1.0000	0	0	0	1.0000
146	B24P41IRH	9-B-26	-354	72	12	.9968	-350	89	15	.9968
147	B24P41IRD	9-B-27	-114	39	6	.9916	-121	43	12	.9845
148	B24P41IRV	9-B-28	97	21	14	.9677	100	5	12	.9671
149	B24P9FFRV	9-B-29	366	178	29	.9919	441	137	33	.9843
150	B24P9FFRD	9-B-30	0	0	0	1.0000	0	0	0	1.0000

TABLE B.2 (Continued)

PAGE NUMBER	PAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC			COMBINED LOADING @ 240 DEGREE LAC				
			SENSITIVITY/100% VERTICAL	ERROR OF LATERAL ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	ERROR OF LATERAL ESTIMATE	CORRELATION COEFFICIENT		
151	B24P9FFRH	9-B-31	-199	-6	15	9865	242	3	11	9945
152	B24S411RH	9-B-32	-353	-89	15	9968	274	-78	21	9912
153	B24S411RD	9-B-33	-86	-44	11	9815	108	40	6	9856
154	B24S411RV	9-B-34	81	-6	16	9144	54	24	16	9109
155	B24S9FFRH	9-B-35	-181	-33	13	9904	165	-14	20	9624
156	B24S9FFRD	9-B-36	110	-34	16	9451	92	54	14	9702
157	B24S9FFRV	9-B-37	287	-40	29	5732	230	92	33	9707
158	I25COP	9-B-38	334	-5	6	9892	340	8	5	9994
159	I29COP	9-B-39	278	6	4	9895	285	6	3	9996
160	B32C0 1M2P(C)	9-B-40	-251	8	8	9874	240	0	9	9972
161	M31 9COP(C)	9-B-41	-564	19	7	9897	472	3	7	9912
162	M22 559 5P(C)	9-B-42	-271	71	7	9882	260	-72	9	9980
163	M23P 3P(C)	9-B-43	-186	-31	4	9990	193	32	4	9953
164	M22 5P 3P(C)	9-B-44	-184	-11	7	9971	194	-11	8	9954
165	M12 5P 4P(C)	9-B-45	-89	-4	4	9852	89	6	9	9547
166	M12 5P 5P(C)	9-B-46	-50	-3	5	9782	70	6	7	9654
167	M12 5P4P(C)	9-B-47	-73	-15	5	9897	84	5	9	9712
168	B24P11 6P(C)	9-B-48	116	58	13	9888	4	50	14	9642
169	H23 958 5P(MSL)	9-B-49	-299	104	4	9994	292	0	7	9990
170	H23 958 5P(MSU)	9-B-50	371	-73	10	9982	187	-7	5	9996
171	H23 9P8 5P(MSL)	9-B-51	-294	-87	17	9941	298	-11	15	9927
172	H23 9P8 5P(MSU)	9-B-52	328	61	17	9978	345	63	10	9978
173	M60S9P(C)	9-B-53	0	0	0	1 0000	0	0	0	1 0000
174	M48 1P8P(C)	9-B-54	-344	-128	14	9974	357	-38	14	9944
175	B48S5MMS(BM)	9-B-55	51	15	18	8403	40	32	11	8505
176	B48S5M2P(BM)	9-B-56	-145	22	24	9327	122	54	28	9466
177	B48S5M2S(BM)	9-B-57	-104	4	35	7950	72	54	37	8228
178	B48S5 1M2P(BM)	9-B-58	-53	17	13	8599	30	37	13	9164
179	M49 559P(1F)	9-B-59	-393	161	7	9991	392	-55	8	9993
180	H28P17 5(D)	9-B-60	-9	-1	6	9516	7	0	2	2484
181	B40C0TTP	8- - 1	0	0	0	1 0000	0	0	0	1 0000
182	B40C0TTS	8- - 2	0	0	0	1 0000	0	0	0	1 0000
183	B40P4TTP	8- - 3	0	0	0	1 0000	0	0	0	1 0000
184	B40P4TTS	8- - 4	0	0	0	1 0000	0	0	0	1 0000
185	B40P8TTP	8- - 5	0	0	0	1 0000	0	0	0	1 0000
186	B40P8TTS	8- - 6	0	0	0	1 0000	0	0	0	1 0000
187	B40C0ZTP	8- - 7	0	0	0	1 0000	0	0	0	1 0000
188	B40C0ZTS	8- - 8	0	0	0	1 0000	0	0	0	1 0000
189	B40P4ZTP	8- - 9	0	0	0	1 0000	0	0	0	1 0000
190	B40P4ZTS	8- - 10	0	0	0	1 0000	0	0	0	1 0000
191	B40P8ZTP	8- - 11	0	0	0	1 0000	0	0	0	1 0000
192	B40P8ZTS	8- - 12	0	0	0	1 0000	0	0	0	1 0000
193	B40C0M2P	8- - 13	0	0	0	1 0000	0	0	0	1 0000
194	B40C0M2S	8- - 14	0	0	0	1 0000	0	0	0	1 0000
195	B40C0MFP	8- - 15	-4	2	3	5196	2	0	2	3677
196	B40C0MFS	8- - 16	0	0	0	1 0000	0	0	0	1 0000
197	B40P7MFP	8- - 17	0	0	0	1 0000	0	0	0	1 0000
198	B40P7MFS	8- - 18	0	0	0	1 0000	0	0	0	1 0000
199	B40C0F1P	8- - 19	0	0	0	1 0000	0	0	0	1 0000
200	B40C0F1S	8- - 20	0	0	0	1 0000	0	0	0	1 0000
201	B40P6F1P	8- - 21	0	0	0	1 0000	0	0	0	1 0000
202	B40P6F1S	8- - 22	0	0	0	1 0000	0	0	0	1 0000
203	B40S4TTP	8- - 23	0	0	0	1 0000	0	0	0	1 0000
204	B40S4TTS	8- - 24	0	0	0	1 0000	0	0	0	1 0000
205	B40S8TTP	8- - 25	0	0	0	1 0000	0	0	0	1 0000
206	B40S8TTS	8- - 26	0	0	0	1 0000	0	0	0	1 0000
207	B40S4ZTP	8- - 27	0	0	0	1 0000	0	0	0	1 0000
208	B40S4ZTS	8- - 28	0	0	0	1 0000	0	0	0	1 0000
209	B40S8ZTP	8- - 29	0	0	0	1 0000	0	0	0	1 0000
210	B40S8ZTS	8- - 30	0	0	0	1 0000	0	0	0	1 0000
211	B40S4MFP	8- - 31	0	0	0	1 0000	0	0	0	1 0000
212	B40S4MFS	8- - 32	0	0	0	1 0000	0	0	0	1 0000
213	B40S6F1P	8- - 33	0	0	0	1 0000	0	0	0	1 0000
214	B40S6F1S	8- - 34	0	0	0	1 0000	0	0	0	1 0000
215	B40C0HHRH	8- - 35	0	0	0	1 0000	0	0	0	1 0000
216	B40C0HHRD	8- - 36	0	0	0	1 0000	0	0	0	1 0000
217	B40C0HHRV	8- - 37	0	0	0	1 0000	0	0	0	1 0000
218	B40P611RH	8- - 38	0	0	0	1 0000	0	0	0	1 0000
219	B40P611RD	8- - 39	0	0	0	1 0000	0	0	0	1 0000
220	B40P611RV	8- - 40	0	0	0	1 0000	0	0	0	1 0000
221	B40P9P1RH	8- - 41	0	0	0	1 0000	0	0	0	1 0000
222	B40P9P1RD	8- - 42	0	0	0	1 0000	0	0	0	1 0000
223	B40P9P1RV	8- - 43	0	0	0	1 0000	0	0	0	1 0000
224	B40P12PFRV	8- - 44	0	0	0	1 0000	0	0	0	1 0000
225	B40P12PFRD	8- - 45	0	0	0	1 0000	0	0	0	1 0000



TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
226	B40P12FFRH	8-A-46	0	1	1	.3678	0	0	0	.0981
227	B40S61IRV	8-A-47	0	0	1	.2292	0	0	0	1.0000
228	B40S61IRD	8-A-48	0	0	1	.1945	0	0	0	1.0000
229	B40S61IRH	8-A-49	0	0	1	.1833	0	0	0	1.0000
230	B40S9FIRH	8-A-50	0	0	0	.0819	0	0	1	1.0000
231	B40S9FIRD	8-A-51	-1	0	1	.3723	0	0	1	1.0000
232	B40S9FIRV	8-A-52	0	0	0	1.0000	0	0	0	1.0000
233	B40S12FFRH	8-A-53	0	0	0	1.0000	0	0	1	1.0000
234	B40S12FFRD	8-A-54	0	0	0	2.087	1	0	1	1.598
235	B40S12FFRV	8-A-55	0	0	0	1.0000	0	0	0	1.0000
236	B48COMMP	8-A-56	0	0	1	1.286	1	0	1	350.0
237	B48S84MFRV	8-A-57	0	0	1	3.082	0	0	0	0.471
238	B48S84MFRD	8-A-58	0	0	0	1.0000	1	0	1	2213
239	B48S84MFRH	8-A-59	0	0	0	1.0000	0	0	0	1.0000
240	W46P22T(D)	8-A-60	0	0	1	2.259	0	0	0	1.0000
241	B48CCTTP	8-A-1	0	1	1	2.885	0	0	1	2493
242	B48COTTS	8-A-2	0	1	1	2.833	1	0	1	4256
243	B48PATTP	8-A-3	0	0	1	1.062	0	0	0	1.0000
244	B48P4TTS	8-A-4	0	0	0	1.0000	-1	0	1	15.17
245	B48P8TTP	8-A-5	0	0	0	.0981	0	0	0	1.0000
246	B48P8TTS	8-A-6	1	0	1	2.582	0	0	0	1.0000
247	B48C0ZTP	8-A-7	0	0	0	1.0000	0	0	0	0.481
248	B48C0ZTS	8-A-8	0	1	1	3.921	0	0	0	1.0000
249	B48P4ZTP	8-A-9	0	0	0	1.0000	0	0	0	1.0000
250	B48P4ZTS	8-A-10	1	0	1	0.589	0	0	0	1.0000
251	B48P8ZTP	8-A-11	0	0	0	1.0000	0	0	0	1.0000
252	B48P8ZTS	8-A-12	0	0	0	1.269	-1	0	1	13.69
253	B48COMZP	8-A-13	0	0	0	1.0000	0	0	0	0.104
254	B48COMZS	8-A-14	0	0	0	2.116	0	0	0	1.0000
255	B48COMZP	8-A-15	0	0	0	1.0000	0	0	0	1.350
256	B48COMFS	8-A-16	0	0	0	1.0000	0	0	1	2494
257	B48P6MFP	8-A-17	0	0	0	1.0000	0	0	1	1.002
258	B48P6MFS	8-A-18	0	0	0	1.001	0	0	0	1.0000
259	B48C0F1P	8-A-19	0	0	0	1.0000	0	0	0	1.0000
260	B48C0F1S	8-A-20	0	0	0	1.521	0	0	0	1.226
261	B48P6F1P	8-A-21	0	0	0	1.020	0	0	0	1.598
262	B48P6F1S	8-A-22	0	0	0	1.0000	0	0	0	0.924
263	B48S4TTP	8-A-23	0	0	0	1.0000	0	0	1	2832
264	B48S4TTS	8-A-24	0	0	0	1.0000	0	0	0	1.0000
265	B48S8TTP	8-A-25	0	0	0	1.0000	0	0	0	1.0000
266	B48S8TTS	8-A-26	0	0	1	1.767	-1	0	0	3.483
267	B48S4ZTP	8-A-27	0	0	0	1.0000	0	0	0	1.0000
268	B48S4ZTS	8-A-28	0	0	0	1.0000	0	0	1	2435
269	B48S8ZTP	8-A-29	0	0	1	2.192	-1	0	0	3.458
270	B48S8ZTS	8-A-30	0	0	0	1.847	0	0	1	2.417
271	B48S6MFP	8-A-31	0	0	1	2.294	0	0	0	1.0000
272	B48S6MFS	8-A-32	0	0	0	1.0000	0	0	0	1.0000
273	B48S6F1P	8-A-33	0	0	0	1.0000	0	0	0	1.0000
274	B48S6F1S	8-A-34	0	0	1	2.322	0	0	1	1.847
275	B48CDHRRH	8-A-35	0	0	0	1.0000	-1	0	1	3505
276	B48CDHRRD	8-A-36	0	0	1	2.336	0	0	1	2.081
277	B48CDHRRV	8-A-37	0	0	0	1.0000	0	0	1	1.684
278	B48P71IRV	8-A-38	0	0	0	0.852	0	0	0	2.428
279	B48P71IRD	8-A-39	0	0	0	1.349	0	0	0	1.236
280	B48P71IRH	8-A-40	0	0	0	1.0000	0	0	0	1.0000
281	B48P10FIRV	8-A-41	-1	1	1	4.339	0	0	0	1.0000
282	B48P10FIRD	8-A-42	0	0	0	1.708	0	0	1	1.262
283	B48P10FIRH	8-A-43	0	0	1	0.779	0	0	0	1.0000
284	B48P12FFRV	8-A-44	0	0	0	1.0000	0	0	0	0.713
285	B48P12FFRD	8-A-45	0	0	1	2.175	0	0	1	2.285
286	B48P12FFRH	8-A-46	-1	1	1	3.493	0	0	1	1.031
287	B48S71IRH	8-A-47	0	0	1	2.428	0	0	0	1.0000
288	B48S71IRD	8-A-48	0	0	0	1.0000	0	0	0	1.0000
289	B48S71IRV	8-A-49	0	0	1	2.885	0	0	0	1.0000
290	B48S10FIRH	8-A-50	0	0	0	1.0000	0	0	1	1.0000
291	B48S10FIRD	8-A-51	0	0	1	1.169	0	0	0	1.593
292	B48S10FIRV	8-A-52	0	0	0	1.0000	0	0	0	1.0000
293	B48S121IRH	8-A-53	0	0	0	1.0000	0	0	1	1.985
294	B48S121IRD	8-A-54	0	1	1	3.892	1	0	1	5.747
295	B48S121IRV	8-A-55	0	0	0	1.0000	0	0	0	1.0000
296	H481520P(C)	8-A-56	0	1	2	3.485	-4	0	2	7.320
297	B48S13MMS(C)	8-A-57	1	1	1	3.685	0	0	0	2.214
298	B56S911P(C)	8-A-58	0	0	1	2.157	0	0	1	0.885
299	B56P4MMS(C)	8-A-59	3	0	3	3.704	1	2	3	2.811
300	B40P1(DK)	8-A-60	0	0	1	0.253	0	0	0	1.0000

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100%		ERROR OF ESTIMATE	SENSITIVITY/100%		ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
			VERTICAL	LATERAL		VERTICAL	LATERAL			
301	M30 4P10W	8-B-1	0	0	4	2476	-1	0	1	3269
302	M30 4P10 5P	8-B-2	0	0	1	0931	1	0	1	2685
303	M30 4P11W	8-B-3	0	0	1	1890	0	0	0	1 0000
304	M30 4P11 5P	8-B-4	0	0	1	1373	0	0	0	1 0000
305	M30 4P12W	8-B-5	0	0	1	1911	0	1	1	2672
306	M30 4P13W	8-B-6	0	0	1	0982	0	0	0	1897
307	M31 2P10W	8-B-7	0	0	1	1397	0	0	1	2852
308	M31 2P10 5PRL	8-B-8	-1	0	1	1783	0	0	1	1267
309	M31 2P10 5PRD	8-B-9	0	0	1	1812	0	0	0	2116
310	M31 2P10 5PRH	8-B-10	0	0	1	2217	0	0	0	0924
311	M31 2P11W	8-B-11	1	0	1	1234	0	0	1	1956
312	M31 2P11 5P	8-B-12	0	0	1	1393	0	0	0	0507
313	M31 2P12W	8-B-13	1	0	3	1601	1	0	1	3037
314	M31 2P13W	8-B-14	0	0	0	2044	0	0	0	1 0000
315	M31 2P14W	8-B-15	0	0	1	2450	1	0	1	3437
316	B40P8MMRH(BB)	8-B-16	1	0	1	0885	2	0	2	4668
317	B32P10MMP	8-B-17	0	0	2	0719	1	0	1	3174
318	B40P8MMRD(BB)	8-B-18	-1	0	1	2122	1	0	1	1981
319	B32P10 5MPP	8-B-19	0	0	0	1 0000	0	0	0	1 0000
320	B40P8MMRY(BB)	8-B-20	0	0	1	0750	0	0	0	1 683
321	M31 8P11 2PRH	8-B-21	0	0	2	1999	0	0	1	2594
322	M31 8P11 2PRD	8-B-22	0	0	0	1236	0	0	1	1751
323	M31 8P11 2PRL	8-B-23	0	0	1	1876	0	0	0	0714
324	M31 8P11 5P	8-B-24	0	0	0	1 0000	0	0	0	1 0000
325	M31 8P12W	8-B-25	0	0	0	1 0000	0	0	0	1 0000
326	M31 8P13W	8-B-26	-2	0	2	4559	-1	1	1	8194
327	M31 8P14W	8-B-27	0	0	0	1 0000	0	0	0	1 0000
328	M32 4P10W	8-B-28	0	0	0	2500	0	0	0	0713
329	M32 4P10 5P	8-B-29	0	0	1	2061	1	0	1	0489
330	M32 4P10 7P	8-B-30	0	0	0	1129	0	0	1	2115
331	M32 4P11 1P	8-B-31	0	0	1	1272	1	0	1	3875
332	M32 4P11 3P	8-B-32	0	0	0	1 0000	0	0	0	1 0000
333	M32 4P11 5PRH	8-B-33	1	0	1	3917	0	0	0	1129
334	M32 4P11 5PRD	8-B-34	0	0	1	1897	0	0	1	1306
335	M32 4P11 5PRL	8-B-35	0	0	0	1481	0	0	1	2033
336	M32 4P12W	8-B-36	1	0	1	1400	0	0	1	2287
337	M32 4P13W	8-B-37	0	0	1	1771	0	0	0	1 0000
338	M32 4P14W	8-B-38	-1	0	1	2852	0	0	0	1 0000
339	M31 2511W	8-B-39	0	0	1	1601	0	0	0	1 0000
340	M31 2512W	8-B-40	0	0	0	1 0000	0	0	0	1129
341	M31 2513W	8-B-41	1	0	1	0737	0	0	0	1 0000
342	M31 2514W	8-B-42	0	0	1	2617	0	0	1	0857
343	M31 8511W	8-B-43	0	0	2	2321	0	0	0	1 0000
344	M31 8511 2PRL	8-B-44	-1	0	2	0537	0	0	0	1347
345	M31 8511 2PRD	8-B-45	0	0	0	1820	0	0	0	1981
346	M31 8511 2PRH	8-B-46	0	0	1	2208	0	1	1	2473
347	M31 8512W	8-B-47	0	0	1	1762	0	0	0	1 0000
348	M31 8513W	8-B-48	0	0	1	1801	0	0	0	1 0000
349	M31 8514W	8-B-49	-2	-1	7	1299	0	0	0	1022
350	M32 6510W	8-B-50	-3	0	4	1711	0	0	1	2077
351	M32 6510 7P	8-B-51	0	0	0	1244	0	0	0	1 0000
352	M32 6511 3P	8-B-52	0	0	0	1 0000	0	0	0	1 0000
353	M32 6512W	8-B-53	0	0	1	1558	-1	0	1	1405
354	M32 6513W	8-B-54	1	0	1	3576	1	0	1	4600
355	M32 6514W	8-B-55	0	0	0	1 0000	0	0	0	1 0000
356	H24 1517 SP(HSL)	8-B-56	2	1	2	0532	-4	-1	2	7042
357	H24 1517 SP(HSU)	8-B-57	2	-1	1	4266	-2	0	1	5272
358	H24 2520 SP(HSL)	8-B-58	-3	1	2	5884	-3	1	2	5710
359	H24 2520 SP(HSU)	8-B-59	0	0	2	2387	1	0	2	0900
360	W52P22T(D)	8-B-60	0	0	1	2716	0	0	1	2445
361	M21P13 5P	7- -1	-502	34	6	9996	-489	37	10	9991
362	M21P12W	7- -2	-9	-2	12	1865	-5	0	10	0636
363	M21P6W	7- -3	-226	-62	9	9974	-219	-63	15	9863
364	M21P2W	7- -4	-207	-33	6	9983	-214	-31	9	9954
365	M21C0W	7- -5	0	0	0	1 0000	0	0	0	1 0000
366	M21S2W	7- -6	-207	20	32	9409	-224	29	45	9275
367	M21S4W	7- -7	-253	31	7	9977	-254	29	9	9970
368	M21S6W	7- -8	-192	72	3	9991	-190	73	5	9991
369	M21S8W	7- -9	-193	76	4	9991	-194	77	3	9991
370	M21S10W	7- -10	-161	84	6	9960	-169	81	6	9971
371	M21S11 5P	7- -11	-144	73	2	9994	-163	82	6	9980
372	M21S12W	7- -12	-97	84	3	9982	-97	82	4	9988
373	M21S12 5P	7- -13	-89	70	8	9861	-84	64	13	9825
374	M21S13W	7- -14	-117	88	7	9928	-121	83	8	9954
375	M21S13 5P	7- -15	-62	101	9	9884	-68	96	6	9965

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	ERROR OF LATERAL ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	ERROR OF LATERAL ESTIMATE	CORRELATION COEFFICIENT		
376	H2152W	7-A-18	-130	48	7	9925	-138	51	10	9521
377	H2152W	7-A-17	150	4	10	9927	154	0	14	9805
378	H2152W	7-A-18	163	26	11	9904	164	21	10	9893
379	H2152W	7-A-19	167	-25	4	9985	170	-22	8	9575
380	H2152W	7-A-20	144	32	2	9898	139	37	4	9974
381	H2152W	7-A-21	101	36	2	9992	97	36	3	9987
382	H2152W	7-A-22	110	-32	12	8664	76	-31	13	9559
383	H2152W	7-A-23	86	52	2	9592	64	52	2	9971
384	H2152W	7-A-24	-132	81	2	9494	-128	83	2	9447
385	H2152W	7-A-25	68	-56	4	9443	67	-59	6	9921
386	H2152W	7-A-26	63	64	3	9965	67	69	4	9551
387	H2152W	7-A-27	7	80	3	9576	9	81	3	9974
388	H2152W	7-A-28	-16	-86	2	9994	-16	-86	2	9590
389	H2152W	7-A-29	-56	67	145	1138	174	7	223	2842
390	H2152W	7-A-30	-78	77	3	9980	-80	75	4	9585
391	H2152W	7-A-31	-108	-78	3	9995	-107	-78	3	9994
392	H2152W	7-A-32	7	60	19	9178	94	59	15	9474
393	H2152W	7-A-33	-158	-79	4	9992	-163	-82	7	9997
394	T3300W	7-A-34	39	-5	3	9873	27	-	8	8830
395	T3300W	7-A-35	-1	14	2	9988	-6	3	7	9984
396	T3300W	7-A-36	-62	74	88	3798	-	2	66	7488
397	T3300W	7-A-37	0	23	66	1290	35	7	57	1543
398	T3300W	7-A-38	16	32	34	4229	3	6	32	2015
399	T3300W	7-A-39	-24	3	4	9422	-21	2	4	9249
400	T3300W	7-A-40	8	2	2	9053	-16	0	3	6368
401	T3300W	7-A-41	-11	2	2	9086	-12	0	3	8285
402	T3300W	7-A-42	34	-1	3	9186	33	-	2	9877
403	T3300W	7-A-43	-52	7	3	9921	-54	4	4	9877
404	T3300W	7-A-44	19	-2	2	9995	-19	-	3	9989
405	T3300W	7-A-45	-78	5	3	9991	-186	-	5	9983
406	T4500W	7-A-46	0	0	0	1.0000	0	0	0	1.0000
407	T4500W	7-A-47	-26	6	2	9998	-28	-	2	9984
408	T4500W	7-A-48	-35	-2	3	9998	-35	0	3	9998
409	T4500W	7-A-49	-40	4	31	9857	-35	23	32	9877
410	T4500W	7-A-50	-300	25	29	9763	-288	-	9	9977
411	T4500W	7-A-51	-406	6	14	9977	-413	2	11	9982
412	M3300A	7-A-52	0	0	0	1.0000	0	0	0	1.0000
413	M3300A	7-A-53	0	0	0	1.0000	0	0	0	1.0000
414	M3300A	7-A-54	0	0	0	1.0000	0	0	0	1.0000
415	M3300A	7-A-55	0	0	0	1.0000	0	0	0	1.0000
416	M3300A	7-A-56	0	0	0	1.0000	0	0	0	1.0000
417	M3300A	7-A-57	0	0	0	1.0000	0	0	0	1.0000
418	M3300A	7-A-58	0	0	0	1.0000	0	0	0	1.0000
419	M3300A	7-A-59	0	0	0	1.0000	0	0	0	1.0000
420	M3300A	7-A-60	0	0	0	1.0000	0	0	0	1.0000
421	M3300A	7-A-61	230	9	12	9936	255	-7	13	9938
422	M3300A	7-A-62	371	7	5	9996	379	-	6	9994
423	M3300A	7-A-63	384	11	12	9976	387	-4	15	9966
424	M3300A	7-A-64	365	4	5	9996	359	-3	9	9985
425	M3300A	7-A-65	-37	2	5	9552	-36	-4	9	8708
426	M3300A	7-A-66	-22	1	4	9140	-22	-	6	8680
427	M3300A	7-A-67	-30	0	11	7663	-29	-4	11	7384
428	M3300A	7-A-68	-17	3	4	8601	-19	-1	5	8157
429	M3300A	7-A-69	596	-5	4	9999	591	-12	7	9997
430	M3300A	7-A-70	0	0	0	1.0000	0	0	0	1.0000
431	M3300A	7-A-71	556	11	8	9995	552	6	10	9970
432	M3300A	7-A-72	606	-7	11	9992	579	-1	9	9995
433	M3300A	7-A-73	640	-1	8	9997	645	0	11	9993
434	M3300A	7-A-74	0	0	0	1.0000	0	0	0	1.0000
435	M3300A	7-A-75	0	0	0	1.0000	0	0	0	1.0000
436	M3300A	7-A-76	0	0	0	1.0000	0	0	0	1.0000
437	M3300A	7-A-77	316	141	9	9978	-313	140	10	9986
438	M3300A	7-A-78	273	-83	21	9902	-267	-100	13	9937
439	M3300A	7-A-79	356	170	13	9943	-337	175	12	9984
440	M3300A	7-A-80	-349	179	9	9983	-348	183	13	9984
441	M3300A	7-A-81	-424	-201	28	9942	-409	-183	24	9911
442	M3300A	7-A-82	31	16	116	2165	106	121	261	1205
443	M3300A	7-A-83	358	155	2	9994	-352	158	3	9999
444	M3300A	7-A-84	444	-171	4	9999	-450	-165	3	9999
445	M3300A	7-A-85	377	193	4	9997	-375	191	9	9993
446	M3300A	7-A-86	212	212	2	9999	-214	216	2	9999
447	M3300A	7-A-87	474	-239	3	9999	479	-237	2	9999
448	M3300A	7-A-88	203	204	2	9999	-200	208	2	9999
449	M3300A	7-A-89	37	224	13	9970	-421	120	345	5214
450	M3300A	7-A-90	0	0	0	1.0000	0	0	0	1.0000

TABLE B.2 (continued)

PAGE NUMBER	PAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
451	M35514P	7-A-31	-385	230	3	9999	-383	232	4	9999
452	M37514P	7-A-32	-385	237	17	9958	-318	235	16	9978
453	M37P14P	7-A-33	-381	-236	11	9991	-384	-251	9	9989
454	M39514P	7-A-34	-293	178	88	8350	-137	223	382	3438
455	M41514P	7-A-35	-96	145	149	4408	48	376	303	5656
456	M41P14P	7-A-36	-301	-200	56	9688	-253	-200	69	8846
457	M43514P	7-A-37	-230	306	242	5640	-349	279	133	8769
458	M45514P	7-A-38	-329	285	14	9972	-311	296	21	9967
459	M45P14P	7-A-39	0	0	0	1.0000	0	0	0	0.0000
460	M47514P	7-A-40	-336	291	13	9980	-390	295	13	9991
461	W32 15MZO 1RV	7-A-41	-258	-53	11	9953	-259	-58	8	9981
462	W32 15MZO 1RD	7-A-42	-682	128	9	9945	-665	135	13	9992
463	W32 15MZO 1RL	7-A-43	-452	149	7	9994	-452	149	9	9993
464	W32 15ZTO 1P	7-A-44	13	43	35	6194	-4	18	22	4129
465	W355MZO 5P	7-A-45	-476	181	5	9996	-422	171	10	9992
466	W355M22W	7-A-46	-317	81	6	9990	-305	76	11	9972
467	W3552M3 9P	7-A-47	-363	65	5	9995	-353	66	6	9995
468	W355270 1P	7-A-48	-297	55	3	9998	-293	54	4	9997
469	W355272A	7-A-49	101	35	11	9694	74	51	18	9677
470	W355723 9P	7-A-50	-126	13	6	9952	-129	14	8	9909
471	M49 559P(FD)	7-A-51	-367	162	17	9943	-342	165	21	9952
472	M49 559P(AD)	7-A-52	-378	164	5	9995	-376	163	6	9997
473	B4852MMW(C)	7-A-53	-128	10	10	9831	-121	12	12	9799
474	B56510 1MHP(C)	7-A-54	-97	23	3	9513	-72	31	12	9616
475	B4053MMS(BM)	7-A-55	-32	-16	12	8614	-13	-1	13	3397
476	B4053MMP(BM)	7-A-56	-152	9	5	9971	-144	9	5	9974
477	B4053M2S	7-A-57	-101	1	4	9966	-101	4	3	9960
478	B4053M2P	7-A-58	-96	1	6	9907	-89	9	4	9957
479	B4853MHP	7-A-59	-107	11	8	9867	-90	24	9	9836
480	H44519(D)	7-A-60	-78	3	4	9938	-76	5	5	9918
481	T49P10W	7-B-1	-330	-83	5	9995	-327	-80	6	9989
482	T49P6W	7-B-2	-57	-22	4	9962	-96	-25	6	9893
483	T49CDW	7-B-3	-28	2	8	8414	-27	0	11	7425
484	T49S2W	7-B-4	-77	11	7	8772	-37	5	9	8999
485	T49S4W	7-B-5	-23	16	5	9054	-21	14	7	9073
486	T49S6W	7-B-6	0	0	0	1.0000	0	0	0	1.0000
487	T49S8W	7-B-7	-203	59	9	9949	-199	56	12	9936
488	T49S10W	7-B-8	-317	87	5	9994	-315	86	5	9996
489	T49S10 5P	7-B-9	-419	108	6	9994	-416	114	7	9995
490	T49S10 9P	7-B-10	-484	126	7	9993	-485	123	9	9994
491	T49P10W	7-B-11	-557	-163	3	9999	-556	-162	4	9998
492	T49P6W	7-B-12	-379	-103	5	9996	-377	-104	5	9995
493	T49CDW	7-B-13	0	0	0	1.0000	0	0	0	1.0000
494	T49S2W	7-B-14	-434	28	8	9992	-436	22	8	9992
495	T49S4W	7-B-15	-475	62	5	9997	-475	62	4	9999
496	T49S6W	7-B-16	-545	92	7	9995	-548	88	9	9995
497	T49S8W	7-B-17	-313	81	4	9995	-314	77	6	9994
498	T49S10W	7-B-18	-474	164	3	9999	-470	165	2	9999
499	T49S10 5P	7-B-19	-486	176	6	9996	-488	181	5	9998
500	T49S10 9P	7-B-20	-493	184	3	9999	-484	185	4	9999
501	W495M22W	7-B-21	-163	130	2	9997	-156	128	3	9997
502	W4952M3 9P	7-B-22	-539	193	14	9982	-528	193	11	9994
503	W495MZO 1RL	7-B-23	-381	220	2	9999	-373	223	3	9999
504	W495MZO 1RD	7-B-24	-422	107	4	9998	-404	115	7	9995
505	W495MZO 1RV	7-B-25	-299	-86	4	9995	-293	-113	14	9965
506	W495272A	7-B-26	-465	136	3	9999	-459	139	5	9998
507	W495723 9P	7-B-27	-462	119	3	9999	-450	124	3	9999
508	W495270 1RL	7-B-28	-480	171	2	9999	-475	171	3	9999
509	W495270 1RD	7-B-29	21	25	6	9651	16	14	11	6324
510	W495270 1RV	7-B-30	161	-13	4	9986	169	-9	6	9969
511	M49P14W	7-B-31	0	0	0	1.0000	0	0	0	1.0000
512	M49P13W	7-B-32	0	0	0	1.0000	-12	-6	6	6586
513	M49P11 1P	7-B-33	-388	-200	12	9987	-391	-211	10	9985
514	M49P10W	7-B-34	-349	-208	6	9996	-351	-197	7	9991
515	M49P6W	7-B-35	-386	-122	28	9914	-369	-117	33	9783
516	M49P2W	7-B-36	-435	-43	11	9986	-446	-34	11	9988
517	M49CDW	7-B-37	-337	-4	6	9991	-326	2	9	9982
518	M49S2W	7-B-38	-469	31	8	9993	-460	42	8	9994
519	M49S4W	7-B-39	-477	80	10	9987	-475	90	10	9991
520	M49S6W	7-B-40	-382	106	3	9998	-377	109	4	9998
521	M49S8W	7-B-41	-364	185	6	9994	-360	182	6	9996
522	M49S9 5P	7-B-42	-376	182	5	9996	-370	185	4	9999
523	M49S10W	7-B-43	-361	197	4	9998	-354	202	3	9998
524	M49S10 5P	7-B-44	-384	209	2	9999	-380	212	2	9999
525	M49S10 9P	7-B-45	-376	224	3	9998	-372	225	6	9997

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
526	H49512W	7-B-46	-375	250	4	9997	-372	254	4	9998
527	H49512 SP	7-B-47	349	241	3	9998	-344	243	3	9998
528	H49513W	7-B-48	-417	283	3	9999	-412	287	3	9999
529	H49513 SP	7-B-49	-397	294	11	9984	0	0	0	1.0000
530	H49514W	7-B-50	-399	296	6	9995	-384	297	5	9998
531	H49514 SP	7-B-51	-403	219	14	9970	-357	235	24	9953
532	H49515W	7-B-52	-202	10	30	9469	-167	-1	26	9446
533	H49515 SP	7-B-53	-258	-7	7	9884	-253	-7	5	9889
534	H49516W	7-B-54	-186	-18	6	9578	-174	-18	3	9550
535	H49516 SP	7-B-55	-178	-15	5	9943	-171	-18	3	9991
536	H49517W	7-B-56	-324	-41	4	9996	-323	-42	4	9997
537	H49517 SP	7-B-57	-295	-40	3	9997	-295	-39	2	9998
538	H49518W	7-B-58	-399	-59	6	9996	-401	-57	4	9997
539	H49518 SP	7-B-59	-464	-64	13	9983	-471	-64	12	9981
540	H49519W	7-B-60	-171	-22	4	9989	-173	-22	4	9989
541	H49520W	8-A-1	0	0	0	1.0000	0	0	0	1.0000
542	H49520 SP	8-A-2	603	-65	7	9997	598	-68	7	9997
543	H49521W	8-A-3	427	-138	7	9994	480	-151	8	9995
544	H49522W	8-A-4	355	-202	6	9993	350	-204	5	9997
545	H49522 SP	8-A-5	253	-236	12	9969	202	-240	25	9929
546	H49523W	8-A-6	-13	-259	6	9988	-12	-263	8	9987
547	H49524W	8-A-7	1	0	1	2624	0	0	1	1384
548	H49524 SP	8-A-8	677	28	4	9999	676	23	2	9997
549	H49525W	8-A-9	592	61	4	9999	589	59	7	9996
550	H49526W	8-A-10	531	102	4	9999	530	96	10	9991
551	H49526 SP	8-A-11	529	157	6	9998	540	143	5	9998
552	H49527W	8-A-12	447	188	4	9999	452	191	3	9999
553	H49528W	8-A-13	255	204	8	9995	260	199	11	9975
554	H49528 SP	8-A-14	312	218	4	9998	317	213	7	9989
555	H49529W	8-A-15	264	231	5	9997	277	230	9	9983
556	H49530W	8-A-16	182	245	4	9998	183	243	4	9982
557	H49530 SP	8-A-17	-125	267	4	9997	-116	266	5	9995
558	H49531W	8-A-18	18	245	44	9604	-93	317	14	8775
559	H49532W	8-A-19	0	0	0	1.0000	0	0	0	1.0000
560	H49532 SP	8-A-20	-366	308	3	9999	-363	304	5	9999
561	H49533W	8-A-21	257	223	4	9998	265	220	9	9980
562	H49534 SP	8-A-22	42	243	7	9988	-34	243	7	9990
563	H49535W	8-A-23	372	99	8	9986	-368	95	12	9980
564	H49535 SP	8-A-24	-149	46	4	9983	-149	43	5	9978
565	H49536W	8-A-25	-304	75	4	9996	-302	76	7	9990
566	H49536 SP	8-A-26	0	0	0	1.0000	0	0	0	1.0000
567	H49537W	8-A-27	195	45	6	9972	-198	41	8	9970
568	H49538W	8-A-28	-56	36	3	9939	-59	31	6	9880
569	H49538 SP	8-A-29	-380	135	4	9994	-381	132	7	9994
570	H49539W	8-A-30	-374	134	3	9998	-374	133	6	9996
571	H49540W	8-A-31	-339	63	3	9998	-343	61	6	9994
572	H49540 SP	8-A-32	-255	100	3	9998	-259	95	8	9992
573	H49541W	8-A-33	-331	117	5	9994	-344	119	12	9981
574	H49542W	8-A-34	-180	133	34	9358	-240	131	30	9821
575	H49542 SP	8-A-35	-238	95	74	8006	-264	108	63	9527
576	H49543W	8-A-36	215	-47	128	5519	328	-135	162	7665
577	H49544W	8-A-37	-253	58	27	9682	-263	89	53	9411
578	H49544 SP	8-A-38	0	0	0	1.0000	0	0	0	1.0000
579	H49545W	8-A-39	-7	-22	6	9894	-81	-21	10	9619
580	H49546W	8-A-40	39	327	6	9995	-21	327	10	9986
581	H49546 SP	8-A-41	-183	-17	48	8708	-187	-42	35	9125
582	H49547W	8-A-42	-42	11	8	9099	-38	10	8	9244
583	H49548W	8-A-43	-185	35	20	9616	-182	35	36	9317
584	H49548 SP	8-A-44	-370	160	4	9997	-366	163	4	9999
585	H49549W	8-A-45	0	0	0	1.0000	0	0	0	1.0000
586	H5700P	8-B-46	806	-7	9	9997	797	-5	13	9993
587	H57013W	8-B-47	324	285	5	9998	327	285	7	9992
588	H5702P	8-B-48	810	15	53	9899	915	15	65	9876
589	H5703P	8-B-49	0	0	0	1.0000	0	0	0	1.0000
590	H57043W	8-B-50	307	-252	6	9994	301	-255	6	9997
591	H57053W	8-B-51	318	244	11	9990	331	252	12	9974
592	H5706P	8-B-52	0	0	0	1.0000	0	0	0	1.0000
593	H57074P	8-B-53	-385	294	3	9999	-389	292	6	9998
594	H57084P	8-B-54	409	-8	11	9982	417	4	12	9979
595	H5709P	8-B-55	333	4	7	9990	333	-3	8	9986
596	H5710W	8-B-56	-23	2	5	9043	-24	0	8	7833
597	H57114P	8-B-57	-15	4	9	9682	-17	3	11	6085
598	H5712W	8-B-58	0	0	0	1.0000	0	0	0	1.0000
599	H548521P(C)	8-B-59	379	249	14	9969	-377	259	19	9977
600	H20513 SP(D)	8-B-60	-9	1	5	9956	-13	0	7	6337

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
601	T51COW	6-A-1	0	0	0	1.0000	0	0	0	1.0000
602	T52COW	6-A-2	-22	1	7	.9884	-21	-3	7	.7830
603	T54COW	6-A-3	-16	10	15	.6182	1	5	20	.2053
604	T55COW	6-A-4	1	13	20	.3226	-54	17	54	.4444
605	Z60S10 9P	6-A-5	-1592	401	16	.9997	-1529	434	33	.9993
606	Z60S6W	6-A-6	-868	167	22	.9982	-872	185	21	.9989
607	Z60COW	6-A-7	1	0	1	.5518	0	0	1	.1821
608	Z59S10 9P	6-A-8	-1271	323	8	.9999	-1261	333	8	.9999
609	Z59COW	6-A-9	-670	4	6	.9998	-671	6	6	.9998
610	Z58S10 9P	6-A-10	-994	262	11	.9997	-994	264	11	.9998
611	Z58S6W	6-A-11	-802	103	10	.9992	-807	114	6	.9998
612	Z58COW	6-A-12	-650	-5	33	.9936	-667	0	49	.9869
613	Z57COW	6-A-13	-638	0	9	.9995	-653	1	16	.9985
614	Z57S10 9P	6-A-14	-688	194	7	.9997	-698	195	9	.9997
615	Z56 2P10 9P	6-A-15	-738	-204	13	.9995	-733	-215	24	.9969
616	Z56 2COW	6-A-16	-650	-133	7	.9998	-651	-123	7	.9996
617	Z56 2P6W	6-A-17	-641	-6	7	.9997	-642	0	5	.9992
618	Z56 2S6W	6-A-18	-677	128	6	.9997	-676	135	7	.9998
619	Z56 2S10 9P	6-A-19	-797	201	36	.9943	-920	230	131	.9658
620	Z55COW	6-A-20	-592	1	7	.9997	-582	7	8	.9996
621	Z55S10 9P	6-A-21	-769	220	4	.9999	-777	221	9	.9998
622	Z54COW	6-A-22	-589	4	4	.9999	-594	2	9	.9994
623	Z55S6W	6-A-23	-641	136	8	.9996	-643	136	12	.9994
624	Z54S10 9P	6-A-24	-727	217	6	.9998	-732	221	9	.9997
625	Z53COW	6-A-25	-653	0	5	.9998	-658	1	7	.9996
626	Z51COW	6-A-26	0	0	0	1.0000	0	0	0	1.0000
627	H51COW	6-A-27	0	0	0	1.0000	0	0	0	1.0000
628	H51S11 1P	6-A-28	-399	234	3	.9999	-400	233	8	.9996
629	L49COP	6-A-29	394	4	8	.9994	394	-10	9	.9988
630	H53COW	6-A-30	0	0	0	1.0000	0	0	0	1.0000
631	H53S11 1P	6-A-31	-361	232	3	.9998	-358	230	6	.9997
632	H53S14P	6-A-32	-429	307	3	.9999	-432	305	9	.9996
633	H53P11 1P	6-A-33	-405	-221	10	.9992	-401	-223	14	.9970
634	H53P14	6-A-34	-397	-291	10	.9994	-401	-293	11	.9985
635	H55COW	6-A-35	-358	-5	27	.9865	-403	-20	26	.9895
636	H55S11 1P	6-A-36	850	-654	476	.6618	-3	-159	130	.5675
637	H55S14P	6-A-37	-465	315	15	.9976	-463	327	12	.9993
638	H57COW	6-A-38	0	0	0	1.0000	0	0	0	1.0000
639	H57S11 1P	6-A-39	-489	324	11	.9989	-475	324	8	.9997
640	H57S14P	6-A-40	-336	233	6	.9993	-333	232	10	.9991
641	H57P14	6-A-41	0	0	0	1.0000	0	0	0	1.0000
642	H57P11 1P	6-A-42	-527	-336	25	.9976	-510	-323	9	.9994
643	H59COW	6-A-43	0	0	0	1.0000	0	0	0	1.0000
644	H59S14P	6-A-44	-445	318	5	.9996	-436	315	5	.9996
645	H59S11 1P	6-A-45	-342	227	4	.9998	-322	231	10	.9991
646	W55 95M20 1RY	6-A-46	-158	170	22	.9766	-130	255	36	.9812
647	W55 95M20 1RD	6-A-47	113	226	19	.9935	147	288	29	.9842
648	W55 95M20 1RL	6-A-48	-310	171	23	.9864	-305	167	21	.9942
649	W55 95T20 1RY	6-A-49	204	-88	7	.9966	212	-72	13	.9984
650	W55 95T20 1RD	6-A-50	-266	4	29	.9707	-232	1	52	.8927
651	W55 95T20 1RL	6-A-51	-774	245	13	.9991	-780	233	33	.9970
652	W55 95ZM3 9RY	6-A-52	205	-79	15	.9856	202	-61	15	.9911
653	W55 95ZM3 9RD	6-A-53	-325	96	11	.9968	-324	111	10	.9984
654	W55 95ZM3 9RL	6-A-54	-802	243	8	.9997	-796	238	9	.9996
655	W56 15ZM3 9RL	6-A-55	19	34	28	.6553	91	3	23	.8644
656	W56 15ZM3 9RD	6-A-56	-19	11	18	.3840	-29	13	18	.6739
657	W56 15ZM3 9RY	6-A-57	17	-82	53	.4460	-103	21	40	.7920
658	H58 3P20P	6-A-58	186	-293	12	.9976	190	-302	14	.9982
659	RESISTOR	6-A-59	-7	1	8	.4034	3	10	12	.3831
660	W5252MZ(D)	6-A-60	-10	2	6	.5294	-10	-1	7	.5071
661	B56COTTP	6-B-1	0	0	0	1.0000	0	0	0	1.0000
662	B56COTTS	6-B-2	-451	-1	16	.9969	-450	-9	13	.9979
663	B56PATTP	6-B-3	-30	-77	22	.9227	-26	-65	19	.8873
664	B56PATTS	6-B-4	-355	-75	18	.9962	-377	-96	20	.9915
665	B56PATTP	6-B-5	-178	-146	59	.9376	-193	-153	49	.8991
666	B56PATTS	6-B-6	-172	-12	13	.9866	-194	-35	13	.9885
667	B56COTZTP	6-B-7	0	0	1	.1492	0	0	1	.1583
668	B56COTZTS	6-B-8	-99	13	12	.9549	-107	0	12	.9712
669	B56PATZTP	6-B-9	-161	-126	36	.9602	-184	-99	28	.9448
670	B56PATZTS	6-B-10	-29	-1	11	.7662	-33	-32	10	.8872
671	B56COTZTP	6-B-11	-130	-167	48	.9448	-143	-108	31	.9164
672	B56PATZTS	6-B-12	-68	-73	18	.9721	-86	-55	17	.9254
673	B56COMZP	6-B-13	-123	-41	31	.9104	-133	-14	27	.9051
674	B56COMZS	6-B-14	-87	-30	26	.8168	-72	-17	21	.8140
675	B56COMZP	6-B-15	-52	-32	23	.8373	-42	-20	33	.8406

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
676	B56COMFS	6-B-16	0	-8	11	3467	-11	0	11	7486
677	B56P8MFP	6-B-17	-28	-29	8	9568	-37	-13	11	7997
678	B56P8MFS	6-B-18	40	116	34	8856	20	-67	32	6134
679	B56COP1P	6-B-19	-3	-69	45	6708	-158	25	127	4224
680	B56COP1S	6-B-20	-92	-4	8	9836	-93	-1	10	9734
681	B56P6F1P	6-B-21	39	-34	14	8371	29	-25	17	8097
682	B56P6F1S	6-B-22	34	-14	6	9722	-28	-16	10	2754
683	B56S47TP	6-B-23	-172	28	41	7457	-112	58	33	9240
684	B56S47TS	6-B-24	-302	71	18	9905	372	62	22	9903
685	B16P21W C	6-B-25	-16	-10	15	5403	-34	25	18	1091
686	B56S87TS	6-B-26	0	0	0	0000	0	0	0	0000
687	B56S42TP	6-B-27	-131	23	35	8417	-151	55	29	9494
688	B56S42TS	6-B-28	-134	46	26	9051	-141	52	15	9822
689	B56S82TP	6-B-29	-70	24	28	7197	-99	83	32	9240
690	B56S82TS	6-B-30	-43	32	9	9239	-38	38	7	9812
691	B56S8MFP	6-B-31	0	0	0	0000	0	0	0	0000
692	B56S8MFS	6-B-32	81	3	47	6594	57	60	34	7110
693	B56S6F1P	6-B-33	34	-1	20	5817	27	14	8	5327
694	B5616F1S	6-B-34	44	16	7	9651	47	17	8	9269
695	B56COPHRH	6-B-35	-225	20	10	9944	-209	14	12	9906
696	B56COPHRD	6-B-36	-163	-33	12	9848	-149	-20	16	9749
697	B56COPHRV	6-B-37	81	-8	14	9253	80	-10	13	9452
698	B56P710A	6-B-38	0	0	0	0000	0	0	0	0000
699	B56P710D	6-B-39	57	3	12	9044	73	1	13	9272
700	B56P710H	6-B-40	-105	-9	10	9772	-153	-9	15	9792
701	B56P710FV	6-B-41	-73	18	12	7687	40	30	4	8250
702	B56P710FRD	6-B-42	-379	80	15	9953	-375	65	9	9985
703	B56P710FRH	6-B-43	38	-1	11	8465	75	-10	15	9035
704	B56P710FRV	6-B-44	-11	21	6	8824	25	40	9	9284
705	B56P710FFRD	6-B-45	-158	57	13	9804	-129	82	4	9880
706	B56P710FFRH	6-B-46	7	80	16	9314	-26	-68	14	9391
707	B56S710FRH	6-B-47	50	5	10	9296	53	-5	8	9540
708	B56S710FRD	6-B-48	64	-13	19	8773	-9	37	26	8656
709	B56S710FRV	6-B-49	61	4	28	7017	47	22	24	6432
710	B56S710FRH	6-B-50	86	46	13	9912	206	39	7	9963
711	B56S710FRD	6-B-51	400	52	17	9960	392	56	18	9942
712	B56S710FRV	6-B-52	-58	-28	11	9544	-74	-24	8	9616
713	B56S710FRH	6-B-53	-22	104	19	9541	5	-26	24	9540
714	B56S710FRD	6-B-54	9	-39	12	8825	11	-19	9	8332
715	B56S710FRV	6-B-55	-184	-91	19	9861	-192	-34	15	9838
716	M36S4P10A	6-B-56	36	2	5	9549	35	-4	8	8981
717	M36S4P10D	6-B-57	-627	82	10	9993	-623	83	11	9994
718	M3215910A	6-B-58	-358	181	8	9987	-358	187	10	9983
719	M3215910D	6-B-59	-435	14	18	9959	-500	-14	28	9422
720	RES3107R	6-B-60	84	34	11	9773	91	25	13	9422
721	APMM36C1P2	5-B-1	-183	192	67	9618	-230	160	51	9555
722	APMM36C2P2	5-B-2	-888	-42	24	9983	-896	-68	17	9990
723	APMM36C3P2	5-B-3	-1010	-206	30	9983	-971	-202	21	9987
724	APMM36P4P2	5-B-4	-404	-157	15	9981	-401	-146	4	9998
725	APMM36P5P2	5-B-5	-411	-135	21	9957	-427	-149	18	9952
726	APMM36P6P2	5-B-6	-401	-179	3	9999	-411	-182	6	9993
727	APMM36C1PF	5-B-7	-364	-205	6	9996	-366	-206	5	9996
728	APMM36C2PF	5-B-8	-417	-243	7	9997	-421	-250	11	9984
729	APMM36C3PF	5-B-9	-724	-512	7	9999	-724	-510	6	9998
730	APMM36C4PF	5-B-10	-547	-558	8	9999	-572	-570	12	9993
731	APMM36P1PF	5-B-11	20	-287	5	9996	16	-291	7	9992
732	APMM36P2PF	5-B-12	-438	-251	3	9999	-448	-255	7	9994
733	APMM36P3PF	5-B-13	-469	-270	3	9999	-483	-273	9	9991
734	APMM36P4PF	5-B-14	-617	-357	3	9999	-627	-357	6	9997
735	APMM36P5PF	5-B-15	-682	-438	4	9999	-698	-436	11	9994
736	APMM36P6PF	5-B-16	-291	-285	3	9999	-301	-291	9	9987
737	APMM36P7PF	5-B-17	303	-7	14	9948	310	-6	15	9848
738	APMM36P8PF	5-B-18	-435	-230	11	9992	-458	-234	22	9942
739	APMM36P9PF	5-B-19	-431	-209	6	9998	-437	-216	8	9990
740	M353P111P	5-B-20	-392	-191	4	9998	-404	-198	9	9987
741	M353P111S	5-B-21	-412	-181	8	9995	-418	-181	14	9971
742	M353P111D	5-B-22	-328	-190	62	9822	-324	-185	44	9580
743	M386P117P	5-B-23	-208	-198	4	9998	-216	-200	5	9992
744	APM33C31S	5-B-24	27	-12	5	9618	-33	-15	7	9018
745	APM33C30B	5-B-25	744	37	3	9997	250	30	7	9980
746	APM33C300IR1	5-B-26	2	-2	2	8261	6	-1	4	5387
747	APM33C3193	5-B-27	-704	-125	7	9998	-718	-128	10	9994
748	APM33RVMN	5-B-28	4	30	3	9895	-4	25	2	9944
749	APM33RDMN	5-B-29	0	0	1	0828	0	0	0	0000
750	APM33RLMN	5-B-30	-245	-103	5	9993	-255	-105	10	9954

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
751	APM233RLMA	S-31	0	0	1	0505	0	0	1882	
752	APM233RDM	S-32	-662	-147	2	9999	-668	-142	9999	
753	APM233RVM	S-33	-44	30	8	9369	-45	26	9573	
754	AP2238C2PA	S-34	-1662	-48	9	9999	-1652	-36	12	9999
755	AP2238C3PA	S-35	0	0	0	1 0000	0	0	0	1 0000
756	AP2238C4PA	S-36	0	0	0	1 0000	0	0	0	1 0000
757	AP2238P3PA 5	S-37	-663	-80	5	9999	-658	-76	6	9999
758	AP2238P3PA2	S-38	-485	-98	7	9996	-478	-96	13	9979
759	AP2238P3PA4	S-39	-411	-97	5	9997	-410	-111	10	9984
760	AP2238RHPA	S-40	30	56	14	9422	-2	69	9	9782
761	AP2238RDP	S-41	0	0	0	1 0000	0	0	0	1 0000
762	AP2238RLPA	S-42	-1150	-124	7	9999	-1160	-116	6	9999
763	APM239C315	S-43	-639	-42	7	9997	-670	-66	17	9884
764	APM239C308	S-44	-615	-49	5	9998	-638	-67	8	9995
765	APM239C300	S-45	-582	-66	5	9999	-592	-72	4	9999
766	APM239C293	S-46	-692	-110	5	9999	-704	-112	5	9998
767	APM242C315	S-47	-626	-54	8	9997	-669	-72	12	9991
768	APM242C308	S-48	-608	-69	6	9998	-633	-82	6	9997
769	APM242C300(R)	S-49	25	-29	20	6427	6	-5	34	1833
770	APM242C293	S-50	-624	-123	4	9999	-642	-126	6	9987
771	B16P3MMRH	S-51	81	45	10	9811	88	35	10	9644
772	B16P3MMRD	S-52	119	26	17	9628	104	1	22	9031
773	B16P3MMRV	S-53	46	-102	75	5662	11	4	100	2450
774	H23P17MFP(U)	S-54	-186	-94	41	9449	-142	-106	37	8890
775	H23 9P16MFP(INSU)S	S-55	473	-58	8	9992	459	-57	8	9994
776	H23 9P16MFP(INSU)S	S-56	-572	-10	7	9997	-551	-14	9	9993
777	B24P10 5MMRH	S-57	-6	17	6	8393	-21	14	5	9441
778	B24P10 5MMRD	S-58	120	28	9	9896	134	20	19	9501
779	B24P10 5MMRV	S-59	113	32	15	9689	146	12	17	9671
780	H36P2M2(D)	S-60	-11	3	4	7727	-11	-1	7	5655
781	APMMA4C1PA	S-A-1	0	0	0	1 0000	0	0	0	1 0000
782	APMMA4C2PA	S-A-2	-1057	-250	17	9995	-1065	-250	27	9951
783	APMMA4C3PA	S-A-3	-1051	-348	9	9999	-1038	-347	12	9996
784	APMMA4C4PA	S-A-4	-562	316	20	9969	-567	327	17	9990
785	APMMA4C5PA	S-A-5	-474	-188	4	9999	-496	-192	7	9995
786	APMMA4P3PA4	S-A-6	-464	-228	8	9996	-474	-231	9	9990
787	APMMA4C1PF	S-A-7	-437	-241	7	9997	-435	-241	5	9996
788	APMMA4C2PF	S-A-8	-466	-273	4	9999	-476	-279	8	9993
789	APMMA4C3PF	S-A-9	-772	-530	7	9999	-774	-525	5	9999
790	APMMA4C4PF	S-A-10	-630	-599	8	9999	-652	-604	13	9994
791	APMMA4C5PF	S-A-11	-5	-257	5	9994	-15	-255	9	9981
792	APMMA4P1PFO 5	S-A-12	-468	-271	4	9999	-479	-276	7	9994
793	APMMA4P3PFO 5	S-A-13	-504	-292	5	9999	-518	-296	8	9994
794	APMMA4P5PFO 5	S-A-14	-654	-390	3	9999	-663	-390	5	9999
795	APMMA4R1PF	S-A-15	-724	-481	4	9999	-739	-481	9	9997
796	APMMA4R0PF	S-A-16	-262	-277	4	9996	-274	-278	8	9988
797	APMMA4RHPF	S-A-17	349	6	37	9742	355	44	62	9261
798	APMMA4P3PF2	S-A-18	-483	-245	14	9990	-502	-261	22	9951
799	APMMA4P3PF4	S-A-19	-476	-235	9	9996	-457	-241	15	9971
800	H43 3P11 1P	S-A-20	-465	-217	11	9993	-462	-222	14	9974
801	H43 3P11 5P	S-A-21	-429	-228	7	9997	-441	-236	9	9988
802	H43 3P12 0P	S-A-22	-421	-244	12	9991	-403	-244	18	9955
803	H41 4P11 7P	S-A-23	-516	-220	4	9999	-526	-221	5	9997
804	APM246C292	S-A-24	-696	-127	6	9998	-726	-141	8	9997
805	APM246C285	S-A-25	-717	-121	51	9899	-638	-141	27	9942
806	APM246C277	S-A-26	-536	-169	7	9997	-536	-168	5	9998
807	APM246C270	S-A-27	-450	-215	16	9984	-455	-208	8	9991
808	AP2246C3PA	S-A-28	-1488	-188	7	9999	-1491	-179	6	9999
809	AP2246C3PF	S-A-29	0	0	0	1982	0	-1	1	3287
810	AP2252C35F	S-A-30	-702	336	6	9998	-715	329	8	9998
811	AS2252C35A	S-A-31	0	0	0	2580	0	0	1	2195
812	APM262C101	S-A-32	-491	-172	6	9998	-494	-172	7	9995
813	APM262C094	S-A-33	-446	-154	15	9982	-457	-158	14	9973
814	APM262C086(R)	S-A-34	25	13	44	2516	28	-1	38	2220
815	APM262C078	S-A-35	0	0	0	1 0000	0	0	0	1 0000
816	APM262RLZA	S-A-36	0	0	0	1 0000	0	0	0	1 0000
817	APM262RDZA	S-A-37	11	49	45	5546	-23	16	27	4828
818	APM262RHZA	S-A-38	3	26	38	4821	-18	16	22	5192
819	ASMM66C15F	S-A-39	-734	65	11	9994	-736	66	11	9995
820	ASMM66C25F	S-A-40	-949	185	10	9997	-941	184	8	9999
821	ASMM66C35F	S-A-41	-969	224	10	9997	-966	221	8	9999
822	ASMM66C45F	S-A-42	-628	163	17	9976	-699	165	9	9996
823	ASMM66C55F	S-A-43	-569	164	8	9994	-576	167	14	9990
824	MS9 5P 5P(AC)	S-A-44	-472	-10	8	9996	-479	-10	8	9993
825	MS9 5P 5P(PCD)	S-A-45	-287	-7	4	9996	-270	-8	5	9992



TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
826	M59 9P SPIC(I)	5-A-46	-326	-5	4	9996	-327	-10	7	9990
827	M4855W(BMSU)	5-A-47	36	85	28	9031	-4	30	38	3952
828	B56PBMMS(BM)	5-A-48	-65	54	14	9235	-68	30	11	9626
829	M4855W(BMSL)	5-A-49	0	0	0	1 0000	0	0	0	1 0000
830	B56PBMZS(BM)	5-A-50	-68	-154	38	9430	-80	-99	30	8808
831	B4059MMP(IC)	5-A-51	575	64	5	9999	564	62	16	9977
832	B64PBMMS(BM)	5-A-52	26	2	12	9929	-3	-6	16	1727
833	H23 9519S	5-A-53	96	-26	15	9424	113	-18	12	9764
834	B2459 5MMP(IC)	5-A-54	-70	-21	9	9700	-100	-22	10	9738
835	B2459 5MMP(IC)	5-A-55	-178	-19	9	9588	-95	-4	20	9034
836	B2459 5MMP(IC)	5-A-56	9	-26	9	9531	7	-45	9	9420
837	H23 9516P(HSU)	5-A-57	362	72	9	9588	334	53	7	9987
838	H23 9516P(HSL)	5-A-58	-613	17	11	9992	-628	16	14	9988
839	H23P17MFP(L)	5-A-59	-141	-97	6	9982	-145	-100	5	9970
840	W44P2M2(D)	5-A-60	-19	0	8	7390	-11	-3	8	4466
841	H24 954 SP(HSO)	5-B-1	-127	-106	5	9985	-128	-109	6	9938
842	H24 954 SP(HSL)	5-B-2	13	129	19	9739	-12	141	20	9759
843	H24 1P8 SP(HSL)	5-B-3	289	89	76	9004	4-2	102	82	9023
844	H24 1P8 SP(HSL)	5-B-4	-500	-153	9	9994	5-3	-162	3	9995
845	H24 1P3 SP(IC)	5-B-5	17	44	5	9888	5	40	10	9725
846	H29 3P17 BRH	5-B-6	25	45	8	9730	13	41	9	9279
847	H29 3P17 BRD	5-B-7	-871	-92	5	9999	-885	-95	3	9995
848	H29 3P17 BRD	5-B-8	-170	-176	6	9992	-171	-179	8	9974
849	H31 9P14S(IC)	5-B-9	-149	-131	7	9970	-152	-134	5	9976
850	B32PFF(RH-IC)	5-B-10	54	35	6	9859	39	23	12	8257
851	B32PFF(RD-IC)	5-B-11	-60	-13	4	9928	-69	-16	7	9725
852	B32PFF(RV-IC)	5-B-12	-155	8	4	9984	-166	6	7	9958
853	H31 8P17W	5-B-13	-247	-63	5	9993	-256	-75	12	9939
854	H31 8P17 SP	5-B-14	-293	-142	5	9995	-298	-154	6	9990
855	H37P2CP	5-B-15	-256	221	4	9998	-265	-227	8	9984
856	H37S20P(IC)	5-B-16	-220	218	4	9996	-221	214	7	9993
857	H37S20P(IC)	5-B-17	-196	216	7	9984	-203	207	14	9971
858	H37S19P(IC)	5-B-18	-182	230	9	9977	-208	214	15	9984
859	H37 4S20P(IC)	5-B-19	240	4	7	9988	-235	222	9	9989
860	B4058 5MFRD(BB)	5-B-20	4	32	12	8568	36	32	12	8593
861	B4058 5MFRD(BB)	5-B-21	-144	83	11	9862	-143	68	13	8898
862	B4058 5MFRD(BB)	5-B-22	-186	63	8	9949	-213	45	13	9925
863	H44S20P(LP)	5-B-23	-181	267	14	9959	-180	262	12	9980
864	H45 4S21P(IC)	5-B-24	-395	312	4	9998	-393	308	8	9996
865	H45 4S21P(IC)	5-B-25	-399	302	6	9996	-401	293	11	9994
866	H47 9P9P(IC)	5-B-26	-2	79	6	9925	8	78	7	9825
867	H47 9P9P(IC)	5-B-27	459	-186	6	9995	451	-199	10	9993
868	B48P2 2MMP(HRB)	5-B-28	-86	17	15	9204	-75	-3	12	9369
869	B48P2 2MMP(HRB)	5-B-29	0	0	0	1982	0	0	1	7004
870	B48P2 2MMP(HRB)	5-B-30	66	-42	14	9119	16	-38	19	7993
871	H42 8P20P(IC)	5-B-31	0	0	1	2002	0	0	1	2500
872	B48P2 2MMP(HRB)	5-B-32	59	-4	10	9287	50	3	10	9143
873	B48P2 2MMP(HRB)	5-B-33	83	-35	24	8213	98	19	12	9607
874	B48P2 2P(IC)	5-B-34	50	-3	18	7772	67	6	14	8939
875	H5 9P2P(IC)	5-B-35	0	0	0	1 0000	0	0	0	1 0000
876	H48 5P10P(IC)	5-B-36	0	0	0	1 0000	0	0	0	1 0000
877	H51P18P(IC)	5-B-37	150	-288	5	9994	131	-294	8	9993
878	H51P18P(CL)	5-B-38	364	-243	4	9587	350	-249	6	9997
879	H49P19P(IC)	5-B-39	-241	-296	11	9990	-232	-304	8	9990
880	H51P18P(IC)	5-B-40	-196	-272	5	9987	-209	-275	7	9991
881	M56P8W(BMSUD)	5-B-41	-133	-66	51	8495	-150	-70	45	8175
882	M56P8W(BMSUD)	5-B-42	-99	-90	51	8465	-88	-60	39	7321
883	M56P8W(BMSUD)	5-B-43	-105	-67	23	9532	-205	-86	46	8844
884	M56P8W(BMSUD)	5-B-44	0	0	0	1 0000	0	0	0	1 0000
885	RESISTOR	5-B-45	5	1	9	1386	6	0	7	2557
886	M4053W(BMSU)	5-B-46	-292	-67	35	9744	-294	-18	34	9665
887	B56P8MMP(BM)	5-B-47	-51	-164	39	9407	-82	-116	36	8720
888	M4855W(BMSU)	5-B-48	0	0	0	1 0000	0	0	0	1 0000
889	B56P8M2PIRM	5-B-49	-34	-71	22	9185	-35	-41	17	8071
890	M31 8P17W	5-B-50	-295	-142	10	9986	-293	-156	8	9979
891	H 6512P(IC)	5-B-51	-61	53	5	9906	-71	51	10	9834
892	H16S12P(IC)	5-B-52	-64	57	5	9888	-84	55	13	9749
893	H 6512P(CL)	5-B-53	-100	60	20	9139	-114	59	14	9810
894	H 6512P(IC)	5-B-54	-1	-14	5	8684	-6	-17	7	7971
895	H10 6S8S(IC)	5-B-55	-77	24	7	9759	-86	40	8	9893
896	H 6512P(IC)	5-B-56	42	-18	3	9910	-48	-23	8	9338
897	H 6512P(IC)	5-B-57	-15	-21	4	9654	-20	-25	4	9607
898	B16P8P(IC)	5-B-58	131	-5	5	9959	124	-15	11	9836
899	H73S20P(IC)	5-B-59	-172	104	4	9987	-170	102	6	9984
900	RESISTOR	5-B-60	3	0	5	0668	2	1	3	2587

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	ERROR OF ESTIMATE LATERAL	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	ERROR OF ESTIMATE LATERAL	CORRELATION COEFFICIENT		
901	B64CDZZP	4-A-1	-87	-3	21	.8869	-87	12	15	9418
902	B64CDZZS	4-A-2	-85	-11	11	.9639	-74	8	13	9336
903	B64P4ZZP	4-A-3	-44	-47	15	.9356	-58	-29	19	7910
904	B64P4ZZS	4-A-4	-212	-61	19	.9868	-227	-42	22	9763
905	B64P8ZZP	4-A-5	-101	-61	9	.9906	-125	-47	15	9631
906	B64P8ZZS	4-A-6	-105	-70	15	.9694	-96	-34	22	8780
907	B64COMZP	4-A-7	-131	-25	25	.9360	-115	8	28	8828
908	B64COMZS	4-A-8	-50	14	7	.9448	-46	12	8	9529
909	B64P4MZP	4-A-9	-104	-46	19	.9573	-116	-23	23	9068
910	B64P4MZS	4-A-10	-136	-62	17	.9797	-151	-35	26	9224
911	B64P8MZP	4-A-11	-7	-39	20	.7653	-20	-25	22	5291
912	B64P8MZS	4-A-12	-132	-71	8	.9959	-149	-54	9	9895
913	B64COMFP	4-A-13	-46	-3	16	.7886	-27	3	14	6663
914	B64COMFS	4-A-14	-126	-6	29	.9334	-62	2	15	8835
915	B64P2MFP	4-A-15	-65	-14	15	.9112	-41	-3	12	8180
916	B64P2MFS	4-A-16	0	0	1	1.0000	0	0	1	1225
917	B64COFIP	4-A-17	-78	-9	11	.9584	-70	2	12	9347
918	B64COFIS	4-A-18	-77	-3	9	.9674	-71	-3	10	9547
919	B64P6FIP	4-A-19	35	-13	15	.6859	31	-17	17	7501
920	B64P6FIS	4-A-20	30	-49	18	.8395	38	-28	16	8736
921	B64S4ZZP	4-A-21	-111	4	20	.9268	-86	28	17	9425
922	B64S4ZZS	4-A-22	-134	19	17	.9594	-105	35	10	9855
923	B64S8ZZP	4-A-23	-142	44	16	.9654	-124	64	13	9874
924	B64S8ZZS	4-A-24	-63	-1	16	.8672	-36	38	14	9207
925	B64S4NZP	4-A-25	-140	18	22	.9361	-114	35	18	9591
926	B64S4NZS	4-A-26	-202	18	22	.9692	-175	43	23	9696
927	B64S8NZP	4-A-27	-123	12	28	.8824	-115	41	22	9482
928	B64S8MZS	4-A-28	-171	34	18	.9715	-150	59	15	9863
929	B64S4MFP	4-A-29	-131	13	18	.9539	-108	27	21	9363
930	B64S4MFS	4-A-30	-106	13	22	.8974	-73	38	22	8997
931	B64S6FIP	4-A-31	-88	10	18	.8971	-68	24	19	8964
932	B64S6FIS	4-A-32	-104	31	16	.9383	-40	43	17	9479
933	B64COHHRH	4-A-33	5	-5	9	.9668	9	0	7	8808
934	B64COHHRD	4-A-34	8	8	8	.8868	0	10	9	5487
935	B64COHHRV	4-A-35	12	4	6	.7730	22	4	7	7684
936	B64P711RV	4-A-36	74	-33	12	.9361	51	-24	20	8368
937	B64P711RD	4-A-37	7	-1	3	.7184	15	-2	5	8199
938	B64P711RH	4-A-38	29	29	22	.9464	195	43	24	9582
939	B64P11F1RV	4-A-39	-448	102	16	.9962	-457	98	10	9990
940	B64P11F1RD	4-A-40	67	-9	10	.9437	119	-26	18	9590
941	B64P11F1RH	4-A-41	-13	66	107	.2541	-233	-55	109	6534
942	B64P13FFRV	4-A-42	-18	83	8	.8878	-4	101	13	9785
943	B64P13FFRD	4-A-43	-240	116	22	.9782	-199	139	22	9882
944	B64P13FFRH	4-A-44	29	-30	14	.7983	7	1	12	6747
945	B64S711RV	4-A-45	117	7	10	.9823	59	-18	7	9788
946	B64S711RD	4-A-46	91	8	28	.8378	56	-12	11	9370
947	B64S711RH	4-A-47	-42	-14	10	.9126	11	3	10	3334
948	B64S11F1RV	4-A-48	22	106	30	.9167	106	97	24	9282
949	B64S11F1RD	4-A-49	-489	-37	27	.9923	-431	-47	28	9878
950	B64S11F1RH	4-A-50	-10	-86	73	.8698	-60	-65	12	9552
951	B64S1311RV	4-A-51	0	0	0	1.0000	0	0	0	1.0000
952	B64S1311RD	4-A-52	-239	-14	24	.9775	-225	1	21	9800
953	B64S1311RH	4-A-53	-38	-15	10	.9060	-27	0	6	8840
954	H61.2520P(CU)	4-A-54	-457	331	8	.9994	-450	330	9	9996
955	H5958P(CI)	4-A-55	-438	203	6	.9995	-421	206	4	9999
956	APM246C112	4-A-56	-439	-95	6	.9997	-420	-71	11	9982
957	APM246C105	4-A-57	-420	-112	14	.9979	-411	-112	8	9988
958	APM246C97	4-A-58	-486	-142	14	.9985	-485	-152	15	9974
959	APM246C90	4-A-59	-145	-138	23	.9831	-179	-116	9	9949
960	H60P19(D)	4-A-60	-16	5	7	.6885	-12	-1	6	6584
961	H61P14P(C)	4-A-1	0	0	0	1.0000	0	0	0	1.0000
962	H61P11.1P	4-A-2	-452	-263	5	.9999	-458	-266	5	9997
963	H61P10W	4-A-3	-412	-223	10	.9993	-425	-224	8	9992
964	H61P6W	4-A-4	-403	-126	9	.9991	-400	-122	7	9992
965	H61P2W	4-A-5	-394	-29	8	.9991	-394	-32	7	9992
966	H61COW	4-A-6	0	0	0	1.0000	0	0	0	1.0000
967	H61S2W	4-A-7	-380	31	5	.9995	-380	31	7	9991
968	H61S4W	4-A-8	-314	67	4	.9990	-310	66	7	9991
969	H61S6W	4-A-9	-435	121	22	.9924	-395	144	21	9956
970	H61S8W	4-A-10	-365	152	4	.9997	-361	152	5	9997
971	H61S9.SP	4-A-11	-358	186	3	.9998	-371	181	4	9996
972	H61S10W	4-A-12	-381	207	6	.9994	-376	208	7	9996
973	H61S10.SP	4-A-13	-372	201	17	.9945	-349	219	9	9992
974	H61S11.1P	4-A-14	-395	259	6	.9994	-428	-11	178	8418
975	H61S12W	4-A-15	-429	272	9	.9989	-421	273	9	9995

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
976	M61S12 SP	4-A-18	0	0	0	1113	1	0	1	2985
977	M61S13W	4-A-17	-469	269	21	9896	-425	291	38	9923
978	M61S14P	4-A-18	-422	306	21	9953	-436	299	9	9995
979	Z61COW	4-A-19	-854	3	10	9997	-849	7	9	9997
980	Z61S2W	4-A-20	-452	25	5	9996	-452	23	5	9997
981	Z61S4W	4-A-21	-525	63	6	9996	-522	62	8	9996
982	Z61S6W	4-A-22	-1048	177	14	9994	-1050	182	16	9995
983	Z61S8W	4-A-23	-859	186	6	9999	-857	191	8	9992
984	Z61S9W	4-A-24	-893	208	6	9999	-879	216	6	9996
985	Z61S10W	4-A-25	-1164	274	50	9746	-1169	302	19	9995
986	Z61S10 SP	4-A-26	-1370	303	103	9141	-1398	360	37	9987
987	Z61S10 9P	4-A-27	-1336	313	55	9417	-1345	360	25	9994
988	Z61P6W	4-A-28	-942	109	127	9534	-1080	127	29	9985
989	Z61P10W	4-A-29	-1183	85	63	9948	-1185	92	22	9943
990	M61S2M3 9P	4-A-30	-1396	329	62	9944	-1425	370	24	9995
991	M61S20 1P	4-A-31	-924	287	51	9914	-928	318	21	9992
992	M56 1S21P	4-A-32	-977	339	9	9923	-984	365	21	9992
993	M61S3W	4-A-33	658	66	8	9997	667	65	10	9994
994	M61P5W	4-A-34	649	-68	5	9998	654	-71	5	9999
995	M61S5W	4-A-35	588	103	7	9997	601	102	7	9997
996	M61S7W	4-A-36	508	145	2	9999	517	150	5	9997
997	M61P7W	4-A-37	69	24	1	9996	106	41	3	9978
998	M61S9W	4-A-38	-199	310	6	9995	184	310	2	9999
999	M61S11W	4-A-39	427	-222	4	9998	425	-224	4	9999
1000	M61P11W	4-A-40	504	-151	4	9998	501	-150	3	9999
1001	M61S13W	4-A-41	346	287	11	9991	358	266	13	9995
1002	M61S14W	4-A-42	270	279	4	9999	280	278	4	9977
1003	M61P14W	4-A-43	255	-268	9	9985	220	-264	22	9947
1004	M61S15W	4-A-44	133	289	4	9998	140	293	5	9995
1005	M61S16 SP	4-A-45	-35	276	7	9991	-26	273	6	9994
1006	M61P16 SP	4-A-46	-26	-264	7	9991	-20	-265	5	9986
1007	M6 518W	4-A-47	182	772	776	5142	884	316	453	6173
1008	M61S20W	4-A-48	-386	316	5	9997	-376	316	7	9997
1009	M61P20W	4-A-49	-407	-333	13	9991	-400	-326	3	9999
1010	M57 8P9S(C)	4-A-50	138	-118	15	9809	124	-130	12	9945
1011	B56P811P(C)	4-A-51	98	-45	16	9325	76	-20	15	9262
1012	ASM276C098	4-A-52	-509	143	8	9944	-477	137	10	9992
1013	ASM276C105	4-A-53	-544	103	9	9992	-540	104	9	9994
1014	ASM276C112	4-A-54	-615	90	6	9996	-612	97	8	9996
1015	ASMM66C85A	4-A-55	-684	476	8	9997	-660	498	9	9998
1016	ASMM66C45A	4-A-56	789	907	6	9995	-782	525	7	9999
1017	ASMM66C35A	4-A-57	-778	485	11	9995	-772	469	6	9999
1018	ASMM66C15A	4-A-58	-1012	287	1707	10489	104	10	878	2440
1019	ASMM66C15A	4-A-59	-636	288	6	9997	-528	294	6	9999
1020	M65S2M2(ID)	4-A-60	-8	1	5	5049	-7	-2	5	4437
1021	B72C0HHRH	4-B-1	-55	0	8	9537	-60	4	10	9417
1022	B72C0HHRD	4-B-2	-79	1	17	9515	-65	8	12	9305
1023	B72C0HHRV	4-B-3	-116	4	5	9945	-121	4	7	9926
1024	B72S12 SF1RV	4-B-4	147	-108	11	9884	127	-97	13	9911
1025	B72S12 SF1RD	4-B-5	-163	87	10	9899	-188	34	7	9570
1026	B72S12 SF1RH	4-B-6	44	-20	13	8168	112	-10	8	9875
1027	B72S12 SF1PH	4-B-7	65	90	19	9642	108	84	14	9679
1028	B72S12 SF1RD	4-B-8	-263	95	10	9976	-235	-104	10	9949
1029	B72S12 SF1RV	4-B-9	-31	-51	35	7334	0	-41	35	5553
1030	Z61S0CW	4-B-10	-688	0	6	9998	-691	4	6	9998
1031	Z61S0CW	4-B-11	-623	1	7	9997	-613	6	5	9992
1032	Z61S0CW	4-B-12	-627	0	4	9999	-631	-3	6	9997
1033	Z61S0CW	4-B-13	-640	9	13	9990	-644	0	5	9999
1034	Z71COW	4-B-14	-611	8	7	9997	-610	-1	6	9998
1035	Z81S6W	4-B-15	-721	125	6	9998	-711	129	6	9999
1036	Z63S11W	4-B-16	1	-11	1	0572	0	0	0	1 0000
1037	M63COW	4-B-17	-428	-20	16	9944	-403	1	5	9996
1038	M63S11 1P	4-B-18	-470	258	7	9994	-453	261	3	9999
1039	M63S14P	4-B-19	-521	321	11	9990	-505	325	4	9999
1040	M63COW	4-B-20	-402	2	10	9983	-406	7	4	9997
1041	M65S11 1P	4-B-21	-480	258	9	9991	-388	274	32	9938
1042	M65S14P	4-B-22	-523	314	22	9957	-525	333	8	9998
1043	M65P14P	4-B-23	-515	-324	14	9992	-534	-313	10	9992
1044	M65P11 1P	4-B-24	-453	-279	9	9996	-461	-271	2	9999
1045	M67COW	4-B-25	0	0	0	1 0000	0	0	0	1 0000
1046	M67S11 1P	4-B-26	-425	248	8	9991	-427	251	4	9999
1047	M61S14P	4-B-27	-240	82	364	1322	-445	285	30	9953
1048	M69COW	4-B-28	0	0	0	1 0000	0	0	0	1 0000
1049	M69S11 1P	4-B-29	-502	312	125	8405	-422	245	8	9998
1050	M69S14P	4-B-30	-566	379	218	7124	-434	267	15	9988

TABLE B.2 (Continued)

PAGE NUMBER	PAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
1051	M69P11 1P	4-B-31	-468	41	51	9693	-435	21	7	9993
1052	M69P14P	4-B-32	0	0	0	1.0000	0	0	0	1.0000
1053	M71COW	4-B-33	-394	7	7	9993	-394	1	6	9995
1054	M71S10 1P	4-B-34	-397	227	8	9991	-386	237	5	9998
1055	M71S13P	4-B-35	3432	-1341	1207	7625	-480	208	990	1575
1056	M63S8 5P	4-B-36	-376	141	4	9997	-370	145	5	9997
1057	169COP	4-B-37	42	1	3	9906	67	3	5	9852
1058	165COP	4-B-38	-6	3	4	8059	5	3	3	4437
1059	F65CDNA	4-B-39	0	0	0	1.0000	0	0	0	1.0000
1060	H63COP	4-B-40	427	-6	6	9995	427	-3	5	9997
1061	H65COP	4-B-41	840	-5	153	9256	734	-107	146	9261
1062	H65S13W	4-B-42	320	234	3	9999	328	235	6	9992
1063	H67COP	4-B-43	0	0	0	1.0000	0	0	0	1.0000
1064	H69P13W	4-B-44	307	-225	4	9997	303	-226	3	9999
1065	H69COP	4-B-45	0	0	0	1.0000	0	0	0	1.0000
1066	H69S13W	4-B-46	0	0	0	1.0000	0	0	0	1.0000
1067	H71COP	4-B-47	604	-2	10	9993	599	-5	10	9992
1068	161COP	4-B-48	427	-8	5	9997	420	-2	8	9991
1069	F61CONA	4-B-49	-22	2	7	8225	-16	2	5	8630
1070	B64S8 5MHRV	4-B-50	-40	23	16	7473	-48	30	15	9039
1071	B64S8 5MHRD	4-B-51	-136	18	10	9841	-130	25	13	9801
1072	B64S8 5MHRH	4-B-52	-74	-26	262	1851	-664	-214	263	7169
1073	H65S20P(1CU)	4-B-53	-321	336	8	9993	-313	345	9	9996
1074	H65S20P(1ACL)	4-B-54	-297	313	7	9992	-298	323	8	9996
1075	H65S20P(1FCL)	4-B-55	-266	286	3	9999	-256	294	3	9999
1076	ASM276C09D	4-B-56	-374	133	3	9998	-367	134	3	9999
1077	ASM262C65	4-B-57	-578	-183	7	9998	-576	-182	4	9998
1078	ASM262C6D	4-B-58	380	-1119	1838	2369	189	10	1641	2442
1079	ASM262C55	4-B-59	-452	-124	3	9993	-457	-142	4	9997
1080	H65S19P(1D)	4-B-60	3	-7	5	6114	-38	-18	15	7294
1081	B80C0Z2P	3- -1	-162	7	15	9780	-143	2	9	9914
1082	B80C0Z2S	3- -2	280	-4	7	9983	272	-6	2	9999
1083	B80P3Z2P	3- -3	-91	-6	4	9958	-96	1	2	9991
1084	B80P3Z2S	3- -4	164	-8	4	9986	166	-10	3	9994
1085	B80P8Z2P	3- -5	-29	-22	11	9849	-49	-14	1	9976
1086	B80P8Z2S	3- -6	94	-25	7	9823	84	-24	2	9989
1087	B80C0M2P	3- -7	-29	6	20	4978	-8	8	5	7950
1088	B80C0M2S	3- -8	7	4	12	2082	25	1	8	8081
1089	B80P3M2P	3- -9	-67	0	13	9759	-47	-5	4	9793
1090	B80P3M2S	3- -10	103	-10	16	9411	87	-2	3	9975
1091	B80P8M2P	3- -11	33	-7	8	8546	14	-1	2	9673
1092	B80P8M2S	3- -12	28	-4	6	9046	34	1	6	9253
1093	B80C0MFP	3- -13	0	0	0	1.0000	0	0	0	1.0000
1094	B80C0MFS	3- -14	-62	15	34	5824	-20	-8	20	3174
1095	B80P9MFP	3- -15	42	4	6	9638	39	9	5	9635
1096	B80P9MFS	3- -16	-11	-51	25	7912	266	36	150	5824
1097	B80C0F1P	3- -17	54	-3	4	9830	53	-1	4	9851
1098	B80C0F1S	3- -18	-178	1	18	9750	-156	-1	7	9952
1099	B80P6F1P	3- -19	33	4	5	9552	38	3	5	9553
1100	B80P6F1S	3- -20	-4	3	21	2292	-24	-12	7	8974
1101	B80S4Z2P	3- -21	-137	14	10	9859	-114	8	7	9914
1102	B80S4Z2S	3- -22	258	-11	15	9911	245	-8	3	9997
1103	B80S8Z2P	3- -23	-82	12	4	9945	-84	14	4	9949
1104	B80S8Z2S	3- -24	171	-5	13	9845	174	0	8	9954
1105	B80S4M2P	3- -25	-39	-2	6	9426	-29	2	6	9033
1106	B80S4M2S	3- -26	52	4	13	8761	41	14	2	9904
1107	B80S8M2P	3- -27	16	-7	7	6841	-10	4	4	7340
1108	B80S8M2S	3- -28	1380	-740	1710	2570	51	-16	5	9839
1109	B80S7MFP	3- -29	15	-10	8	6422	5	-2	2	8411
1110	B80S7MFS	3- -30	-55	34	20	7750	-23	12	11	7992
1111	B80S6F1P	3- -31	38	-10	4	9720	34	-10	4	9721
1112	B80S6F1S	3- -32	70	6	16	8948	59	21	14	8724
1113	B80C0MHRH	3- -33	18	-20	21	4385	-48	-3	39	4345
1114	B80C0MHRD	3- -34	-114	5	6	9935	-121	5	3	9988
1115	B80C0MHRV	3- -35	-65	-4	6	9809	-68	0	6	9823
1116	B80P711RV	3- -36	21	-5	5	8751	12	2	3	8485
1117	B80P711RD	3- -37	-28	17	11	7708	-23	10	8	8571
1118	B80P711RH	3- -38	-67	11	7	9670	-74	16	5	9902
1119	B80P711RV	3- -39	41	6	6	9712	45	14	9	8961
1120	B80P11F1RD	3- -40	-31	-24	31	5902	-10	-33	9	9045
1121	B80P11F1RH	3- -41	-13	-85	6	9855	-20	-51	4	9908
1122	B80P12FFRV	3- -42	0	0	0	1.0000	0	0	0	1.0000
1123	B80P12FFRD	3- -43	19	21	7	9348	17	26	3	9850
1124	B80P12FFRH	3- -44	-37	0	13	7748	-34	-10	7	8510
1125	B80S711RH	3- -45	-104	-10	7	9915	-101	-11	5	9924

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR DF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR DF ESTIMATE	CORRELATION COEFFICIENT
1126	B80511IRD	3-A-46	0	0	0	1.0000	0	0	0	1.0000
1127	B80511IRV	3-A-47	-71	34	28	.7403	24	9	76	.2058
1128	B80511IRH	3-A-48	2	-1	12	.2335	-9	19	10	.8083
1129	B80511FIRD	3-A-49	-72	-46	7	.9891	-79	-42	4	.9937
1130	B80511FIRV	3-A-50	-53	-41	11	.9617	-48	-48	8	.9674
1131	B80512FFRH	3-A-51	-19	9	4	.9031	-19	12	3	.9813
1132	B80512FFRD	3-A-52	0	0	1	.1887	0	0	1	.1873
1133	B80512FFRV	3-A-53	-34	-23	7	.9583	-30	-29	6	.9499
1134	H84-5521P(CU)	3-A-54	-272	168	11	.9964	-279	182	3	.9996
1135	H101P20P(UC)	3-A-55	-80	-16	10	.9702	-71	-20	6	.9816
1136	H100P20P(AC)	3-A-56	-52	-28	8	.9754	-55	-25	2	.9962
1137	B98COMMP(C)	3-A-57	22	19	10	.8595	31	5	8	.8496
1138	H1013COW(IC)	3-A-58	-148	10	13	.9800	-138	2	7	.9923
1139	H1013COW(IC)	3-A-59	-1	-3	6	.2512	-6	-1	3	.6794
1140	B80CMF(10)	3-A-60	-13	2	5	.6977	-6	0	4	.5604
1141	M73P13P	3-A-1	-386	71	15	.9960	-364	64	8	.9991
1142	M73P12W	3-A-2	-450	-281	11	.9993	-458	-263	2	.9995
1143	M73P10-1P	3-A-3	-410	-208	13	.9987	-361	-200	25	.9980
1144	M73P8W	3-A-4	-391	-112	7	.9995	-394	-117	7	.9992
1145	M73P6W	3-A-5	-358	-118	9	.9990	-368	-107	7	.9990
1146	M73P2W	3-A-6	-384	-14	7	.9992	-389	-10	2	.9999
1147	M73C0W	3-A-7	-409	4	8	.9991	-401	4	4	.9997
1148	M73S2W	3-A-8	-370	40	12	.9972	-349	30	4	.9998
1149	M73S4W	3-A-9	-480	-274	9	.9996	-475	-277	4	.9998
1150	M73S6W	3-A-10	-330	88	14	.9950	-349	96	4	.9998
1151	M73S8W	3-A-11	-336	93	11	.9967	-355	114	6	.9996
1152	M73S9W	3-A-12	-382	129	5	.9995	-385	133	3	.9999
1153	M73S9-5P	3-A-13	0	0	0	1.0000	0	0	0	1.0000
1154	M73S10-1P	3-A-14	-445	219	28	.9998	-402	207	7	.9996
1155	M73S11W	3-A-15	-443	238	4	.9998	-433	250	3	.9999
1156	M73S11-5P	3-A-16	-377	225	10	.9984	-384	237	2	.9999
1157	M73S12P	3-A-17	-441	265	4	.9998	-436	268	5	.9999
1158	M73S12-5P	3-A-18	-502	286	15	.9978	-469	290	5	.9999
1159	M73S13P	3-A-19	-497	292	5	.9998	-485	298	3	.9999
1160	Z73C0W	3-A-20	-621	19	21	.9971	-593	0	7	.9997
1161	Z73S2W	3-A-21	-635	47	10	.9994	-627	40	6	.9998
1162	Z73S4W	3-A-22	-532	58	13	.9983	-551	66	4	.9999
1163	Z73S6W	3-A-23	-722	118	27	.9960	-729	127	36	.9950
1164	Z73S8W	3-A-24	-764	170	11	.9994	-775	187	21	.9967
1165	Z73S9W	3-A-25	-752	177	5	.9999	-747	186	9	.9997
1166	Z73S9-5P	3-A-26	-755	188	32	.9948	-694	197	60	.9912
1167	Z73S10W	3-A-27	-901	204	6	.9999	-909	222	10	.9998
1168	Z73S11P	3-A-28	-501	-451	1647	.1747	-878	226	39	.9965
1169	Z73P6W	3-A-29	-714	-118	14	.9992	-729	-113	12	.9992
1170	Z73P10W	3-A-30	-738	-145	21	.9985	-704	-157	10	.9994
1171	W73SM20-1P	3-A-31	-441	193	5	.9997	-430	200	2	.9999
1172	W73SM22-0W	3-A-32	-352	151	18	.9926	-334	148	22	.9943
1173	W73SZM3-9P	3-A-33	-801	212	6	.9998	-797	224	5	.9999
1174	H78S20P(CL)	3-A-34	-242	208	4	.9995	-239	217	3	.9999
1175	H73S1W	3-A-35	527	17	5	.9998	523	13	5	.9998
1176	H73S3W	3-A-36	491	40	11	.9988	485	36	11	.9987
1177	H73P3W	3-A-37	547	-9	9	.9994	560	-32	8	.9995
1178	H73S5W	3-A-38	426	71	7	.9994	424	66	3	.9998
1179	H73S7W	3-A-39	424	117	6	.9996	422	114	3	.9998
1180	H73P7W	3-A-40	335	-127	12	.9962	330	-138	8	.9991
1181	H73S9W	3-A-41	370	144	3	.9999	373	144	3	.9998
1182	H73S11W	3-A-42	0	0	0	1.0000	0	0	0	1.0000
1183	H73P11W	3-A-43	335	-180	6	.9993	329	-180	2	.9999
1184	H73S12W	3-A-44	328	208	13	.9984	339	200	6	.9991
1185	H73S13W	3-A-45	314	223	6	.9997	223	219	5	.9995
1186	H73P13W	3-A-46	340	-230	8	.9987	349	-236	5	.9998
1187	H73S14W	3-A-47	222	230	8	.9990	223	228	8	.9982
1188	H73S15W	3-A-48	114	236	4	.9998	114	245	7	.9988
1189	H73P15W	3-A-49	125	-247	13	.9954	122	-243	7	.9993
1190	H73S16-5P	3-A-50	-50	256	9	.9982	-44	258	6	.9994
1191	H73P16-5P	3-A-51	-36	-236	8	.9986	-34	-237	3	.9997
1192	H73S18W	3-A-52	0	0	0	1.0000	0	0	0	1.0000
1193	H73S20W	3-A-53	-413	281	9	.9989	-396	283	5	.9998
1194	H73P20W	3-A-54	-381	-279	10	.9994	-384	-272	3	.9999
1195	H79-5518P(AC)	3-A-55	41	-43	8	.9561	47	-48	5	.9923
1196	[98-1COP(AC)	3-A-56	-121	1	9	.9872	-124	11	5	.9970
1197	B98S6MMP(AC)	3-A-57	245	-9	12	.9939	254	-24	7	.9985
1198	H17S17W(IC)	3-A-58	-58	29	10	.9281	-63	31	6	.9870
1199	RESISTOR	3-A-59	-1	-1	17	.0460	22	7	20	.3721
1200	H76S19(D)	3-A-60	187	-269	309	.3947	87	7	81	.1778

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAC			COMBINED LOADING @ 240 DEGREE LAC				
			SENSITIVITY/100%		ERROR OF ESTIMATE	SENSITIVITY/100%		ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
			VERTICAL	LATERAL		VERTICAL	LATERAL			
1201	Z75CDW	3-B-1	-563	12	14	.9984	-544	0	7	.9995
1202	Z77CDW	3-B-2	-805	-2	6	.9997	-508	-2	3	.9999
1203	Z79CDW	3-B-3	-414	5	4	.9998	-421	-1	1	.9999
1204	Z79 SCOW	3-B-4	0	0	0	1.0000	0	0	0	1.0000
1205	Z83CDW	3-B-5	-337	8	11	.9971	-348	5	7	.9990
1206	Z85CDW	3-B-6	-232	10	7	.9979	-239	-3	2	.9999
1207	W83P2M3 9P	3-B-7	-355	-112	8	.9991	-345	-103	4	.9997
1208	Z83P6W	3-B-8	-414	-53	10	.9987	-396	-60	2	.9995
1209	RESISTOR	3-B-9	0	0	0	1.0000	0	0	0	1.0000
1210	Z83S6W	3-B-10	-324	60	15	.9939	-342	63	3	.9996
1211	Z79 556W	3-B-11	-460	86	11	.9984	-534	87	31	.9531
1212	Z79 559 9P	3-B-12	-536	142	8	.9994	-537	148	5	.9998
1213	W83SM10 1P	3-B-13	0	0	0	1.0000	0	0	0	1.0000
1214	W83SM12 0W	3-B-14	-252	111	26	.9725	-211	100	7	.9886
1215	W83SM13 9P	3-B-15	0	0	0	1.0000	0	0	0	1.0000
1216	M75CDW	3-B-16	-302	117	12	.9959	-314	135	4	.9998
1217	M75S10 1P	3-B-17	-404	196	13	.9998	-391	212	4	.9995
1218	M75S13P	3-B-18	-434	283	3	.9981	-407	282	4	.9995
1219	M77CDW	3-B-19	-417	1	4	.9998	-418	3	4	.9998
1220	M77S10 1P	3-B-20	-511	207	18	.9965	-465	200	6	.9997
1221	M77S13P	3-B-21	-354	249	8	.9988	-337	251	5	.9998
1222	B80P61JWIC	3-B-22	-6	-5	22	1.089	-20	13	8	.8521
1223	M77P13P	3-B-23	0	0	0	1.0000	0	0	0	1.0000
1224	M79CDW	3-B-24	-354	-10	7	.9990	-363	-2	3	.9998
1225	M79S10 1P	3-B-25	-319	146	2	.9999	-313	157	3	.9995
1226	M79S13P	3-B-26	-233	160	13	.9936	-246	176	3	.9999
1227	M85CDW	3-B-27	-270	-7	7	.9985	-283	3	2	.9999
1228	M81S10 1P	3-B-28	-241	133	15	.9907	-264	154	5	.9996
1229	M81S13P	3-B-29	-276	151	8	.9977	-285	164	2	.9995
1230	M81P10 1P	3-B-30	-262	-138	20	.9931	-234	-147	6	.9987
1231	M81P13P	3-B-31	-327	-150	3	.9999	-323	-141	3	.9998
1232	M83CDW	3-B-32	0	0	0	1.0000	0	0	0	1.0000
1233	M83S10 1P	3-B-33	-271	136	5	.9990	-271	149	2	.9995
1234	M83S13P	3-B-34	-343	188	5	.9995	-345	198	4	.9998
1235	M81CDW	3-B-35	348	-3	4	.9997	-352	1	3	.9999
1236	M85S10 1P	3-B-36	-253	97	5	.9989	-250	105	3	.9998
1237	M85S13P	3-B-37	-209	132	9	.9950	-208	136	9	.9982
1238	M85P10 1P	3-B-38	-319	-98	6	.9995	-329	-92	2	.9999
1239	M85P13P	3-B-39	-202	-128	4	.9995	-210	-121	2	.9997
1240	F81 55(41MS 1B)	3-B-40	-1	-48	13	.9100	-9	-60	7	.9805
1241	M81S5 5P	3-B-41	-271	32	3	.9998	-374	39	3	.9999
1242	M83S5 5P	3-B-42	0	0	0	1.0000	0	0	0	1.0000
1243	M83P10 1P	3-B-43	-282	-138	5	.9996	-293	-130	3	.9997
1244	M83P13P	3-B-44	0	0	0	1.0000	0	0	0	1.0000
1245	173CDP	3-B-45	180	6	7	.9964	187	1	6	.9977
1246	177CDP	3-B-46	268	-2	5	.9992	272	-4	2	.9998
1247	181CDP	3-B-47	241	0	10	.9954	229	-4	9	.9963
1248	F81CDNA	3-B-48	-20	2	3	.9320	-26	10	8	.8933
1249	F85CDNA	3-B-49	-57	-3	5	.9795	-50	5	5	.9768
1250	B80P8MHRH	3-B-50	-14	-17	11	.7679	-6	-22	5	.9300
1251	B80P8MHRD	3-B-51	-48	-23	2	.9969	-46	-21	2	.9945
1252	B80P8MHRV	3-B-52	0	0	0	1.349	0	0	1	.0895
1253	B80P8MFRH	3-B-53	-82	-20	7	.9849	-73	-21	4	.9935
1254	B80P8MFRD	3-B-54	-80	-29	4	.9863	-71	-19	6	.9786
1255	B80P8MFRV	3-B-55	-5	2	8	.0376	5	-2	3	.6782
1256	185CDP	3-B-56	323	-4	7	.9988	314	3	4	.9996
1257	RESISTOR	3-B-57	0	0	0	1.0000	0	0	0	1.0000
1258	RESISTOR	3-B-58	-10	5	10	.3659	3	2	5	.1522
1259	RESISTOR	3-B-59	-214	-159	288	.4788	-1284	-2841	1490	.7212
1260	M83P19(D)	3-B-60	-10	2	5	.6599	-8	0	6	.5254
1261	B86CQ2ZP	2--1	103	9	5	.9950	107	16	5	.9940
1262	B86CQ2ZS	2--2	-404	6	3	.9999	-404	15	5	.9997
1263	B86P2Z2P	2--3	71	10	2	.9977	71	1	1	.9990
1264	B86P2Z2S	2--4	-267	-8	3	.9997	-266	3	3	.9997
1265	B86P8Z2P	2--5	85	9	14	.8500	82	1	11	.8996
1266	B86P8Z2S	2--6	-189	5	6	.9979	-185	-2	4	.9986
1267	B86CM2P	2--7	1	8	3	.8608	4	1	3	.5354
1268	B86CM2S	2--8	-85	5	6	.9886	-86	2	5	.9905
1269	B86P2M2P	2--9	-20	14	11	.6328	-18	4	11	.6381
1270	B86P2M2S	2--10	-10	15	7	.7553	-6	-1	4	.8886
1271	B86P8M2P	2--11	5	11	2	.9568	5	9	6	.9260
1272	B86P8M2S	2--12	-24	22	4	.9581	-21	19	6	.9822
1273	B86CMFP	2--13	6	4	4	.7288	0	3	2	.6783
1274	B86CMFS	2--14	-188	2	2	.9997	-190	4	3	.9994
1275	B86P8MFP	2--15	-35	5	5	.9544	-34	9	4	.9752

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1276	B86P9MFS	2-A-16	-63	43	12	9282	-56	41	6	9884
1277	B86C0F1P	2-A-17	-26	2	2	9799	-25	0	2	9804
1278	B86C0F1S	2-A-18	15	2	2	9613	18	0	2	9779
1279	B86P6F1P	2-A-19	-34	11	3	9829	-33	7	4	9757
1280	B86P6F1S	2-A-20	-47	0	4	9826	-51	-15	4	9864
1281	B86S4Z2P	2-A-21	20	5	9	7384	27	-4	5	5263
1282	B86S4Z2S	2-A-22	-219	19	12	9523	-207	15	6	9911
1283	B86S8Z2P	2-A-23	80	-6	6	9444	76	-3	4	9121
1284	B86S8Z2S	2-A-24	-183	5	5	9583	-182	6	5	991
1285	B86S8M2P	2-A-25	-12	8	11	4195	-8	-4	6	4276
1286	B86S8M2S	2-A-26	-87	3	3	9877	-90	2	2	9987
1287	B86S8M2P	2-A-27	16	-13	5	8436	11	-12	2	9820
1288	B86S8M2S	2-A-28	-11	7	8	8973	-14	-14	5	8339
1289	B86S2MFP	2-A-29	32	2	2	9735	-34	6	3	9894
1290	B86S2MFS	2-A-30	33	20	24	6708	23	11	11	6750
1291	B86S6F1P	2-A-31	-34	-4	6	9374	-31	-8	4	9496
1292	B86S6F1S	2-A-32	-50	7	3	9912	-49	4	3	9617
1293	B86C0HHRH	2-A-33	11	5	2	9159	12	6	5	9270
1294	B86C0HHRD	2-A-34	-10	2	2	8877	-10	5	2	9420
1295	B86C0HHRV	2-A-35	60	4	4	9926	-63	-2	1	9869
1296	B86P7108V	2-A-36	2	0	1	4162	1	0	2	2755
1297	B86P7108L	2-A-37	7	37	6	9738	-2	23	5	9344
1298	B86P7108H	2-A-38	-69	12	4	9896	-62	8	5	9889
1299	B86P7108V	2-A-39	5	25	9	8665	3	28	9	8726
1300	B86P7108R	2-A-40	0	0	0	0000	0	0	0	0000
1301	B86P7108D	2-A-41	-76	7	3	9951	-71	6	6	9838
1302	B86P7108F	2-A-42	4	24	4	9663	-1	23	7	8658
1303	B86P7108R	2-A-43	79	21	5	9940	66	26	11	9261
1304	B86P7108F	2-A-44	27	5	4	9611	39	5	4	9677
1305	B86S711RH	2-A-45	-134	-3	5	9960	-137	-4	5	9969
1306	B86S711RD	2-A-46	-126	12	5	9859	-137	5	7	9943
1307	B86S711RV	2-A-47	-114	-14	8	8844	-125	-18	7	8737
1308	B86S711RH	2-A-48	-111	-15	30	8629	-96	4	25	8641
1309	B86S711RD	2-A-49	41	-9	4	9834	-39	-10	6	9478
1310	B86S711RV	2-A-50	-16	-34	3	9882	0	-35	3	9917
1311	B86S711FRH	2-A-51	-15	-6	4	8392	0	-8	2	8982
1312	B86S711FRD	2-A-52	52	-26	4	9877	56	-24	3	9972
1313	B86S711FRV	2-A-53	49	-41	3	9937	50	-38	2	9976
1314	H84 5521PICM1	2-A-54	-241	172	5	9992	229	175	2	9999
1315	H84 5521PICD1	2-A-55	244	177	15	9928	-258	183	2	9990
1316	H84 5521PICR1	2-A-56	6	0	5	4631	18	1	10	6084
1317	H84 5521PICL1	2-A-57	0	-2	4	2096	-1	1	7	5407
1318	H84 5521PICU1	2-A-58	1	0	4	2067	10	0	5	6352
1319	H84 5521PICV1	2-A-59	7	-3	5	4672	10	0	6	5811
1320	H84 5521PICW1	2-A-60	24	7	19	4231	-15	0	8	6089
1321	B9210Z2P	2-A-61	156	69	27	9760	190	22	10	9926
1322	B9210Z2S	2-A-62	-408	14	10	9985	-395	35	5	9998
1323	B9210Z2P	2-A-63	48	8	9	9364	23	14	10	7187
1324	B9210Z2S	2-A-64	198	7	6	9975	-192	46	5	9985
1325	B9210Z2P	2-A-65	-192	-16	29	9432	130	76	25	9212
1326	B9210Z2S	2-A-66	86	51	25	9153	45	0	17	7612
1327	B9210M2P	2-A-67	16	44	13	9195	23	-13	7	9157
1328	B9210M2S	2-A-68	18	20	8	8180	-8	-9	6	6531
1329	B9210M2P	2-A-69	16	39	9	9537	22	23	9	8360
1330	B9210M2S	2-A-70	-30	44	15	8515	-29	-34	19	7088
1331	B9210M2P	2-A-71	-25	46	20	7886	-63	74	14	9747
1332	B9210M2S	2-A-72	29	-11	85	1939	-56	49	14	9563
1333	B9210M2P	2-A-73	0	9	17	2018	-11	-15	11	6160
1334	B9210M2S	2-A-74	-168	1	3	9990	-175	-3	6	9968
1335	B9210M2P	2-A-75	103	27	8	9839	-114	33	8	9913
1336	B9210M2S	2-A-76	153	-17	18	9699	-174	-4	12	9886
1337	B9210M2P	2-A-77	173	-46	182	1281	133	-45	350	1192
1338	B9210M2S	2-A-78	27	35	47	3811	27	11	23	3967
1339	B9210M2P	2-A-79	66	-4	7	9702	-74	11	9	9711
1340	B9210M2S	2-A-80	65	4	10	9407	-57	-2	6	9713
1341	B9210M2P	2-A-81	7	47	16	8774	1	-18	15	5739
1342	B9210M2S	2-A-82	251	3	78	8274	-207	52	33	9557
1343	B9210M2P	2-A-83	5	42	14	9429	107	1	18	8370
1344	B9210M2S	2-A-84	29	29	14	9774	-53	-2	31	5839
1345	B9210M2P	2-A-85	71	1	31	3530	-50	-16	36	4754
1346	B9210M2S	2-A-86	41	27	9	8977	63	-69	7	9926
1347	B9210M2P	2-A-87	41	88	7	9880	-42	-25	11	8730
1348	B9210M2S	2-A-88	17	34	11	8609	-51	-20	14	8443
1349	B9210M2P	2-A-89	17	4	4	3339	0	-18	5	9069
1350	B9210M2S	2-A-90	41	1	7	9481	-40	13	6	9352

TABLE B.2 (Continued)

CAGE NUMBER	CAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY VERTICAL	SENSITIVITY LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY VERTICAL	SENSITIVITY LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1351	B9256FIP	2-A-31	-85	-6	9	9749	-86	-7	11	9564
1352	B9256FIS	2-A-32	-56	8	4	9828	-68	9	6	9820
1353	B92P.2HNRH	2-A-33	-43	-7	19	7456	-68	8	16	8978
1354	B92P.2HNRD	2-A-34	-85	3	4	9936	-83	13	3	9970
1355	B92P.2HNRV	2-A-35	-20	7	6	8106	-25	2	9	7276
1356	B92P71IRV	2-A-36	2	0	2	2418	1	C	1	2348
1357	B92P71IRD	2-A-37	-102	-21	8	9870	-103	-14	4	9964
1358	B92P71IRH	2-A-38	-98	-3	3	9970	-91	3	4	9963
1359	B92P11P1RV	2-A-39	-10	19	11	6805	2	23	10	8103
1360	B92P11P1IRD	2-A-40	0	0	1	1971	0	C	1	1150
1361	B92P11P1IRH	2-A-41	-76	3	8	9742	-71	21	12	9556
1362	B92P11P1FRV	2-A-42	11	24	5	9802	15	29	11	8201
1363	B92P11P1FRD	2-A-43	50	25	5	9894	31	5	8	8366
1364	B92P11P1FRH	2-A-44	1	42	10	9336	21	41	7	9586
1365	B92571IRH	2-A-45	-77	-2	5	9904	-75	0	6	9830
1366	B92571IRD	2-A-46	-45	21	4	9794	-56	12	12	9266
1367	B92571IRV	2-A-47	-55	-11	6	9768	-52	-14	7	9466
1368	B9251P1IRH	2-A-48	-76	-36	7	9875	-96	-25	10	9692
1369	B9251P1IRD	2-A-49	C	9	3	8450	11	1	10	4868
1370	B9251P1IRV	2-A-50	3	-10	19	1822	-4	1	14	9215
1371	B9251P1FRH	2-A-51	-3	-54	14	9078	-11	-56	14	9215
1372	B9251P1FRD	2-A-52	40	-24	5	9670	48	-34	6	9845
1373	B9251P1FRV	2-A-53	33	-22	6	9310	33	-15	5	9672
1374	B9251P1FRH	2-A-54	154	-94	14	9820	159	-84	11	9942
1375	M91 SP CS PST	2-A-55	253	-89	2	9999	-245	-83	5	9986
1376	RES:STOR	2-A-56	10	-5	8	4465	25	8	16	5100
1377	RES:STOR	2-A-57	0	0	0	10000	0	C	C	0000
1378	RES:STOR	2-A-58	C	-5	14	0443	9	-4	13	3397
1379	RES:STOR	2-A-59	0	C	C	0000	0	C	0	0000
1380	M91 SCFD	2-A-60	-15	3	9	5389	-14	1	9	9754
1381	M93 6P9W	2-B-1	309	-64	6	9994	-310	-83	5	9992
1382	M93 6P9W	2-B-2	302	-69	3	9998	-307	-68	6	9997
1383	M93 6P9W	2-B-3	-298	44	2	9999	-303	-80	5	9993
1384	M93 6P9W	2-B-4	272	-86	2	9998	-274	-82	2	9996
1385	M93 6P9W	2-B-5	325	-77	2	9961	-322	-85	-3	9955
1386	M93 6P9W	2-B-6	254	-79	2	9999	-264	-79	5	9985
1387	M93 6P9W	2-B-7	154	-85	9	9937	-189	-90	8	9901
1388	M93 6P9W	2-B-8	46	3	3	9996	171	41	5	9978
1389	M93 6P9W	2-B-9	122	8	8	9942	11	-129	8	9955
1390	M92 6P9W	2-B-10	-111	-76	9	9990	-414	-76	9	9988
1391	M92 6P9W	2-B-11	261	-87	2	9999	-269	-84	4	9997
1392	M92 6P9W	2-B-12	260	-92	9	9976	-261	-64	4	9993
1393	M92 6P9W	2-B-13	-306	-86	2	9999	-318	-83	5	9992
1394	M92 6P9W	2-B-14	206	-93	3	9998	-212	-93	6	9982
1395	M92 6P9W	2-B-15	-234	-87	4	9996	-237	-89	5	9987
1396	M92 6P9W	2-B-16	-69	-85	19	9646	-66	-104	11	9827
1397	M92 6P9W	2-B-17	7	-140	3	9992	-14	-138	6	9973
1398	M92 6P9W	2-B-18	-139	-105	25	9417	128	-156	37	9595
1399	B92P7HMSLC	2-B-19	-186	-30	9	9955	-183	-3	7	9966
1400	M92 3P9S	2-B-20	-127	-92	12	9977	-125	-89	15	9936
1401	M92 3P9S 2RH	2-B-21	39	48	11	9655	39	54	10	9524
1402	M92 3P9S 2RD	2-B-22	82	-90	8	9878	78	-98	12	9885
1403	M92 3P9S 2RL	2-B-23	-382	-89	7	9994	-397	-79	4	9998
1404	M92 3P9S 2R	2-B-24	-501	107	5	9994	-511	-101	4	9998
1405	M92 3P10S	2-B-25	-319	-85	11	9978	-320	-87	10	9973
1406	M92 3P11S	2-B-26	-225	-107	3	9998	-230	-105	5	9988
1407	M92 3P12S	2-B-27	-255	-75	8	9983	-262	-74	3	9996
1408	M91 6P8S	2-B-28	-406	-51	11	9984	-415	-29	13	9976
1409	M91 6P8S 2P	2-B-29	-240	-87	3	9998	-245	-91	5	9990
1410	M91 6P8S 5P	2-B-30	-276	-77	5	9993	-276	-83	8	9979
1411	M91 6P9W	2-B-31	-204	-81	27	9758	-215	-93	35	9329
1412	M91 6P9S 5P	2-B-32	-232	-88	4	9996	-237	-86	7	9978
1413	M91 6P9S 7RL	2-B-33	-216	-98	9	9979	-231	-88	12	9928
1414	M91 6P9S 7RH	2-B-34	385	-63	19	9796	607	27	198	7988
1415	M91 6P9S 7RD	2-B-35	60	52	3	9676	53	50	8	8823
1416	M91 6P10W	2-B-36	2	0	2	5142	1	0	2	0825
1417	M91 6P11W	2-B-37	-307	-94	3	9998	-316	-88	8	9982
1418	M91 6P12W	2-B-38	-246	-85	24	9848	-276	-91	7	9983
1419	H86 1P19P(HSU)	2-B-39	645	-54	5	9998	664	-58	9	9996
1420	H86 1P19P(HSL)	2-B-40	0	0	0	10000	0	0	0	10000
1421	H86 1P19P(CUST)	2-B-41	0	-24	19	5990	31	-11	20	8377
1422	H71 9P19P(C)	2-B-42	306	-300	15	9988	253	-284	5	9998
1423	H71 9P19P(C)	2-B-43	323	-147	6	9992	311	-155	6	9995
1424	B84P8 SMFRV(BB)	2-B-44	-48	-21	6	9812	-44	-19	8	8982
1425	B84P8 SMFRD(BB)	2-B-45	-207	-28	18	9846	-217	-25	9	9952



TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE L&C				COMBINED LOADING @ 240 DEGREE L&C			
			SENSITIVITY VERTICAL	100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY VERTICAL	100% LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1426	86498 SMFRHIBB	2-B-46	-116	43	21	9784	120	6	12	9784
1427	M80595-SU1	2-B-47	89	97	5	9969	85	99	4	9985
1428	M80595-SU1	2-B-48	-104	32	5	9930	-108	33	8	9917
1429	H79551BP-FC1	2-B-49	47	-55	3	9981	46	54	1	9986
1430	H79520PICU1	2-B-50	-165	218	2	9996	-158	221	2	9995
1431	RESISTOR	2-B-51	0	0	9	1643	14	0	10	4708
1432	RESISTOR	2-B-52	0	0	4	1414	0	0	0	0000
1433	RESISTOR	2-B-53	0	0	0	0000	0	0	0	0000
1434	RESISTOR	2-B-54	0	0	0	0000	0	0	0	0000
1435	RESISTOR	2-B-55	6	0	5	1934	22	5	3	1314
1436	RESISTOR	2-B-56	6	0	6	1844	19	5	2	4233
1437	RESISTOR	2-B-57	1	0	6	1071	8	2	7	3575
1438	RESISTOR	2-B-58	2	0	5	1458	9	1	6	5057
1439	RESISTOR	2-B-59	0	0	0	0000	0	0	0	0000
1440	HANT5-D	2-B-60	-113	2	2	5368	-116	17	8	4466
1441	M7700W	11-1-1	-201	9	4	9988	189	-14	5	9982
1442	M7700W	11-1-2	-187	11	4	9990	184	-7	5	9985
1443	M7700W	11-1-3	-168	16	8	9702	-162	3	2	9672
1444	W9-ASMZC1RL	11-1-4	-29	29	9	8758	-28	27	7	8674
1445	W9-ASMZC1RL	11-1-5	958	74	27	9587	950	54	18	9593
1446	W9-ASMZC1RL	11-1-6	47	57	14	8478	47	-42	15	9486
1447	M7700W	11-1-7	-1318	2	12	9935	-127	16	28	9821
1448	M7700W	11-1-8	-315	17	13	875	-270	11	11	9175
1449	M7700W	11-1-9	-212	98	4	9985	-206	110	1	9959
1450	M8950A	11-1-10	0	0	0	0000	0	0	0	0000
1451	M8950A	11-1-11	-248	90	2	9598	-258	95	3	9584
1452	M8950A	11-1-12	0	0	0	0000	0	0	0	0000
1453	M8950A	11-1-13	-258	-104	12	9965	-251	-96	8	9982
1454	M8950A	11-1-14	0	0	0	0000	0	0	0	0000
1455	M8950A	11-1-15	-195	-16	12	9735	-260	13	5	9185
1456	M8950A	11-1-16	-259	71	7	9821	-275	82	8	9985
1457	M8950A	11-1-17	-285	107	7	9594	-285	107	2	9998
1458	M8950A	11-1-18	0	0	0	0000	0	0	0	0000
1459	M8950A	11-1-19	-122	96	10	9886	-227	91	11	9966
1460	M8950A	11-1-20	0	0	0	0000	0	0	0	0000
1461	M8950A	11-1-21	-158	12	3	9591	-157	4	3	9993
1462	M8950A	11-1-22	-45	55	4	9933	-46	57	4	9967
1463	M8950A	11-1-23	-78	-85	7	9911	-79	-48	8	9780
1464	M8950A	11-1-24	-153	14	7	9868	-154	17	3	9989
1465	M8950A	11-1-25	54	32	2	9954	-56	34	2	9990
1466	M8950A	11-1-26	-131	4	4	9512	-14	0	10	9885
1467	M8950A	11-1-27	-114	34	3	9974	-111	42	4	9983
1468	M8950A	11-1-28	0	0	0	0000	0	0	0	0000
1469	M8950A	11-1-29	-104	-5	1	9589	-103	-4	2	9994
1470	M8950A	11-1-30	-131	38	7	9913	-127	34	6	9957
1471	M8950A	11-1-31	-128	1	7	9982	-142	-1	6	9956
1472	M8950A	11-1-32	-159	29	8	9956	-167	31	8	9957
1473	M8950A	11-1-33	0	0	0	0000	0	0	0	0000
1474	M8950A	11-1-34	96	33	3	9977	-94	33	2	9995
1475	M8950A	11-1-35	-208	2	3	9996	-207	11	4	9997
1476	M8950A	11-1-36	-15	3	2	8478	8	12	3	7938
1477	M8950A	11-1-37	182	-3	3	9993	178	-12	4	9987
1478	M8950A	11-1-38	57	0	3	9920	60	-2	4	9886
1479	M8950A	11-1-39	0	0	0	0000	0	0	0	0000
1480	M8950A	11-1-40	59	2	7	9690	64	-13	6	9802
1481	M8950A	11-1-41	133	0	8	9909	143	-4	6	9953
1482	M8950A	11-1-42	-173	-7	17	9904	-176	-5	2	9955
1483	M8950A	11-1-43	-112	15	31	1472	-25	11	19	4829
1484	M8950A	11-1-44	175	-8	14	9843	177	-5	9	9939
1485	M8950A	11-1-45	-89	-10	10	9770	-74	-11	10	9567
1486	ASMZ87C120	11-1-46	-660	79	7	9997	-651	86	4	9999
1487	ASMZ87C112(RES)	11-1-47	462	79	3	9995	-458	85	3	9999
1488	ASMZ87C315	11-1-48	-1868	108	122	9890	-2027	9	225	9710
1489	ASMZ87C308	11-1-49	-1725	208	180	9715	-1765	246	69	9968
1490	ASMZ87C300	11-1-50	-1852	182	7	9998	-1859	172	13	9999
1491	ASMZ87C297	11-1-51	-1811	184	7	9999	-1820	177	12	9999
1492	ASMZ87C306	11-1-52	-352	95	4	9997	-352	102	4	9997
1493	ASMZ87C305	11-1-53	248	127	23	9892	264	165	18	9880
1494	ASMZ87C304	11-1-54	145	-7	7	9942	142	-14	7	9953
1495	ASMZ87C303	11-1-55	74	-28	19	9133	-41	-76	9	9784
1496	ASMZ87C302	11-1-56	-184	18	11	9928	-150	-17	20	9545
1497	RESISTOR	11-1-57	-6	3	4	5387	2	11	3	3029
1498	RESISTOR	11-1-58	11	4	5	6690	-8	-1	4	6587
1499	RESISTOR	11-1-59	0	0	0	0000	0	0	0	0000
1500	H927P(OD)	11-1-60	15	3	8	5777	-18	-2	9	6043

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1501	B98C0HMS	1-A-1	-489	5	4	9998	-497	2	6	9996
1502	B98C0MHP	1-A-2	246	-1	16	9891	246	2	14	9922
1503	B98P4MMP	1-A-3	37	6	10	8720	42	6	10	8753
1504	B98P4HMS	1-A-4	0	0	0	1.0000	0	0	0	1.0000
1505	B98P9MMP	1-A-5	-187	14	12	9830	-149	13	7	9854
1506	B98P9HMS	1-A-6	-160	-35	22	9660	-159	38	22	9514
1507	B98C0MFP	1-A-7	56	-5	24	6985	57	27	15	8521
1508	B98C0MFS	1-A-8	-70	-1	31	7098	-73	1	30	7244
1509	B98P5MFP	1-A-9	35	16	10	9020	32	3	6	8597
1510	B98P5MFS	1-A-10	116	42	21	9507	126	27	27	8925
1511	B98P6FIP	1-A-11	-22	20	8	8332	-2	22	17	8289
1512	B98C0FIS	1-A-12	0	0	0	1.0000	0	0	0	1.0000
1513	B98C0FIP	1-A-13	-13	4	10	4341	-4	3	17	0865
1514	B98P4FIS	1-A-14	-29	-3	9	8289	15	-12	18	3946
1515	B98S4MMP	1-A-15	74	-1	11	5499	75	-4	8	9724
1516	B98S4MMS	1-A-16	-203	7	27	9577	-154	-7	18	9669
1517	B98P8MMP	1-A-17	73	25	16	9273	76	24	12	9342
1518	B98S8MMS	1-A-18	46	-71	44	6636	20	-70	20	8887
1519	B98S3MFP	1-A-19	-26	6	11	6813	-30	2	12	7390
1520	B98S4MFS	1-A-20	48	3	14	8489	42	9	14	7811
1521	B98S6FIP	1-A-21	-18	-1	13	5343	-28	-	12	7188
1522	B98S6FIS	1-A-22	-18	15	8	7772	-17	20	9	8367
1523	B98P2MHRH	1-A-23	-134	4	8	8913	-124	10	8	8902
1524	B98P2MHRD	1-A-24	-57	25	12	9428	-77	2	16	9109
1525	B98P2MHRV	1-A-25	-16	-4	9	6911	-6	3	10	3022
1526	B98P71IRD	1-A-26	-108	33	13	9595	-99	38	17	9594
1527	B98P71IRV	1-A-27	-130	-33	39	8694	-171	-21	15	9795
1528	B98P71IRH	1-A-28	-159	24	11	9861	-144	-17	10	9899
1529	B98P11SFIRV	1-A-29	44	-27	21	7899	80	-19	12	9615
1530	B98P11SFIRD	1-A-30	231	-35	9	9956	255	-25	9	9872
1531	B98P11SFIRH	1-A-31	-201	51	10	9931	-192	63	13	9927
1532	B98P119FFRV	1-A-32	7	57	7	9786	-1	55	8	9717
1533	B98P119FFRD	1-A-33	240	15	10	9958	251	1	10	9960
1534	B98P119FFRH	1-A-34	12	53	13	9371	28	55	9	9608
1535	B98S71IRH	1-A-35	-145	-78	29	9341	-136	-9	25	9222
1536	B98S71IRD	1-A-36	-56	40	12	9080	-48	50	13	9590
1537	B98S71IRV	1-A-37	-26	-35	12	9174	-27	-28	12	8023
1538	B98S11SFIRH	1-A-38	-184	-74	25	9742	-184	-53	12	9879
1539	B98S11SFIRD	1-A-39	157	26	15	9828	147	-2	33	9940
1540	B98S11SFIRV	1-A-40	0	0	0	1.0000	0	0	0	1.0000
1541	B98S119FFRH	1-A-41	-17	-104	17	9640	2	-115	20	9618
1542	B98S119FFRD	1-A-42	240	39	8	9976	247	12	10	9957
1543	B98S119FFRV	1-A-43	18	-29	8	8883	20	-25	8	9241
1544	B98S10MFS	1-A-44	117	-136	30	9326	102	-141	35	9547
1545	B98S10MFP	1-A-45	34	85	24	9279	54	80	24	8822
1546	H100P20P(FCI)	1-A-46	-513	420	6	9998	-488	436	8	9994
1547	ASMM77C1SF	1-A-47	-836	15	83	9763	-1001	-54	10	9998
1548	ASMM77C2SF	1-A-48	-28	-24	10	9094	-18	-17	14	4657
1549	ASMM77C3SF	1-A-49	-312	232	31	9810	-274	204	20	9953
1550	ASMM77C4SF	1-A-50	-311	140	81	8534	-276	175	27	9804
1551	ASMM77C5SF	1-A-51	-589	97	4	9999	-596	99	7	9997
1552	ASMM77C1SA	1-A-52	-433	294	45	9778	-346	244	8	9995
1553	ASMM77C2SA	1-A-53	-359	263	6	9994	-351	272	4	9999
1554	ASMM77C3SA	1-A-54	-86	-23	15	9499	-139	-89	70	6735
1555	ASMM77C4SA	1-A-55	-508	502	8	9996	-473	532	13	9996
1556	ASMM77C5SA	1-A-56	-284	347	9	9991	-267	358	8	9996
1557	ASMM77P35A0 5	1-A-57	-935	90	5	9999	-937	102	7	9999
1558	ASMM77P35A1 5	1-A-58	-629	87	5	9998	-636	93	8	9997
1559	ASMM77P35A2 0	1-A-59	0	0	0	1.0000	0	0	0	1.0000
1560	H103519(D)	1-A-60	-276	106	16	9907	-283	151	10	9985
1561	B108P8MFP	1-B-1	-16	10	3	9498	-19	16	3	9835
1562	B108C0HMS	1-B-2	25	2	6	9014	24	5	5	8881
1563	B108P4MMP	1-B-3	-57	8	9	9419	-42	16	11	9059
1564	B108P4MMS	1-B-4	0	0	0	1.0000	0	0	0	1.0000
1565	B108P8MMP	1-B-5	-37	8	3	8806	-31	10	4	9719
1566	B108P8HMS	1-B-6	-28	1	8	8338	-7	12	15	4626
1567	RES15TOR	1-B-7	-23	-7	41	1889	-6	34	22	6935
1568	B108C0MFS	1-B-8	-46	12	8	9283	-40	7	4	9771
1569	B108P4MFP	1-B-9	-52	21	5	9779	-53	22	2	9980
1570	B108P4MFS	1-B-10	72	15	6	9868	71	16	6	9777
1571	RES15TOR	1-B-11	4	-1	9	1803	17	6	11	4939
1572	B108C0FIS	1-B-12	0	0	0	1.0000	0	0	0	1.0000
1573	B108P6FIP	1-B-13	-17	13	4	8903	-20	19	4	9763
1574	B108P6FIS	1-B-14	4	-2	2	5460	3	-5	1	9308
1575	B108S4MMP	1-B-15	-70	1	4	9920	-68	1	2	9978

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG				COMBINED LOADING @ 240 DEGREE LAG			
			SENSITIVITY VERTICAL	LOAD LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY VERTICAL	LOAD LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1576	B1085AMMS	1 B-18	66	11	7	9627	-161	11	6	9602
1577	B1085BMP	1 B-19	87	0	2	9695	-142	0	2	9644
1578	B1085BMS	1 B-18	-31	7	4	9609	-126	4	2	9613
1579	B1085AMR	1 B-19	76	12	10	9476	77	10	11	9561
1580	B1085AMFS	1 B-18	88	7	4	9556	95	7	6	9513
1581	B1085E1P	1 B-21	-28	-3	2	9461	-125	2	1	9369
1582	B1085E1S	1 B-22	39	8	10	8774	23	11	4	8143
1583	B108P1DHRH	1 B-23	536	-21	6	9511	-546	31	6	9377
1584	B108P1DHRD	1 B-24	586	27	7	9511	591	45	12	1394
1585	B108P1DHRV	1 B-25	0	0	0	9511	0	0	0	9511
1586	B108P1DHP	1 B-26	48	5	6	9561	56	2	4	9698
1587	B108P1DRC	1 B-27	22	-43	7	9511	28	-36	11	9285
1588	B108P1DRH	1 B-28	308	-1	7	9589	-306	5	6	9597
1589	B108P1DSEJAN	1 B-24	150	-1	3	9593	151	-1	4	9582
1590	B108P1DSEJAC	1 B-30	347	-23	2	9594	343	-26	2	9594
1591	B108P1DSEJRH	1 B-31	82	10	3	9577	-96	-6	5	9503
1592	B108P1DSEJRV	1 B-32	12	35	3	9452	-7	37	4	9172
1593	B108P1DSEJRC	1 B-33	257	16	5	9440	256	14	4	9592
1594	B108P1DSEJRH	1 B-34	72	-12	7	9751	22	-10	4	9677
1595	B108P1DSEJRH	1 B-35	256	31	2	9596	-253	16	2	9596
1596	B108P1DSEJRD	1 B-36	47	128	76	6562	473	37	124	6604
1597	B108P1DSEJRV	1 B-37	5	3	2	9522	54	3	2	9565
1598	B108P1DSEJRH	1 B-38	-21	27	3	9497	-205	-26	3	9595
1599	B108P1DSEJRD	1 B-39	194	65	4	9594	198	70	4	9590
1600	B108P1DSEJRV	1 B-40	324	-45	10	8725	322	-27	9	8648
1601	B108P1DSEJRH	1 B-41	15	92	4	9577	-33	89	6	9540
1602	B108P1DSEJRD	1 B-42	74	174	7	9576	68	-185	6	9587
1603	B108P1DSEJRV	1 B-43	39	139	14	9853	6	-127	3	9893
1604	B108P1DSEJRH	1 B-44	77	4	2	9575	-73	5	2	9566
1605	APMM77C1PA	1 B-45	430	-476	2	9896	-450	-471	6	9295
1606	APMM77C2PA	1 B-46	547	576	6	9899	-564	-507	6	9558
1607	APMM77C3PA	1 B-47	511	-422	5	9899	-513	-412	3	9899
1608	APMM77C4PA	1 B-48	-427	5	45	9542	-1050	-19	34	9574
1609	APMM77C5PA	1 B-49	105	153	45	9805	-324	-186	10	9876
1610	APMM77C6PA0 S	1 B-50	352	253	5	9898	-369	-248	4	9898
1611	APMM77C6PA1 S	1 B-51	-378	226	5	9898	327	-205	6	9892
1612	APMM77C6PA2 C	1 B-52	-370	-167	3	9899	-314	-164	2	9899
1613	APMM77C6PA3	1 B-53	-571	78	8	9896	-569	-79	6	9697
1614	APMM77C6PA4	1 B-54	596	71	8	9896	-598	-72	6	9597
1615	APMM77C6PA5	1 B-55	872	77	6	9899	-870	-72	4	9896
1616	APMM77C6PA6	1 B-56	358	-274	9	9894	-355	-262	8	9590
1617	APMM77C6PA7	1 B-57	1007	53	12	9597	-1003	58	7	9499
1618	APMM77C6PA8	1 B-58	885	22	8	9898	-880	28	6	9899
1619	APMM77C6PA9	1 B-59	0	0	0	10000	0	0	0	10000
1620	APMM77C6PA10	1 B-60	9	4	5	6080	-7	1	6	4586
1621	M95510A	0 B-1	160	-50	6	9878	-165	-52	9	9518
1622	M95511A	0 B-2	264	25	7	9877	-272	-24	10	9664
1623	M95512A	0 B-3	187	-2	8	9858	-190	-5	10	9626
1624	M95513A	0 B-4	0	0	0	10000	0	0	0	10000
1625	M95514A	0 B-5	-192	8	9	9842	-198	8	13	9606
1626	M95515A	0 B-6	-172	13	8	9843	-177	17	11	9822
1627	M95516A	0 B-7	-232	50	15	9880	-226	43	13	9880
1628	M95517A	0 B-8	-282	35	9	9875	-279	44	10	9872
1629	M95518A	0 B-9	2	29	10	8748	7	27	6	9444
1630	M95519 SP	0 B-10	-44	39	11	9075	-42	38	9	9634
1631	M95520 SP	0 B-11	-5	35	11	8767	-5	34	9	9266
1632	M95521 SP	0 B-12	-33	35	12	8552	-41	35	10	9578
1633	M95522W	0 B-13	-33	43	11	9057	-32	41	9	9615
1634	M92P9 SP18B1	0 B-14	27	7	22	5098	18	6	12	4906
1635	M95524W	0 B-15	142	12	10	9890	144	2	9	9896
1636	M95525W	0 B-16	126	18	10	9877	137	11	7	9923
1637	M95526W	0 B-17	124	-17	9	9872	127	-20	8	9812
1638	M95527W	0 B-18	117	27	9	9885	120	23	8	9890
1639	M95528W	0 B-19	122	31	7	9844	127	29	8	9882
1640	M95529W	0 B-20	124	30	7	9800	123	-32	8	9829
1641	M95530W	0 B-21	87	40	7	9809	92	35	8	9740
1642	M95531W	0 B-22	0	0	0	10000	0	0	0	10000
1643	M95532W	0 B-23	73	-41	5	9885	72	-45	6	9828
1644	M95533W	0 B-24	69	52	7	9806	70	47	8	9718
1645	M95534W	0 B-25	63	49	6	9922	68	50	5	9874
1646	M95535W	0 B-26	0	0	0	10000	0	0	0	10000
1647	M95536W	0 B-27	-17	59	7	9821	-14	54	7	9795
1648	M95537 SP	0 B-28	77	66	10	9729	-70	63	9	9883
1649	M95538 SP	0 B-29	-58	-54	7	9887	-49	-60	6	9837
1650	M95539W	0 B-30	71	63	7	9857	-69	58	6	9932

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1651	H95517W	0- -31	-128	63	6	.9952	-121	63	6	.9971
1652	H95519W	0- -32	-128	-58	3	.9991	-126	-59	3	.9985
1653	H80595(BMSU)	0- -33	-166	44	8	.9931	-160	37	24	.9666
1654	B925MM7(BMSL)	0- -34	-645	-68	20	.9978	-675	-96	8	.9994
1655	H49CDP	0- -35	0	0	0	1.0000	0	0	0	1.0000
1656	H61CDP	0- -36	0	0	0	1.0000	0	0	0	1.0000
1657	H73CDP	0- -37	0	0	0	1.0000	0	0	0	1.0000
1658	H75CDP	0- -38	568	-12	13	.9987	581	-8	15	.9983
1659	H77CDP	0- -39	0	0	0	1.0000	0	0	0	1.0000
1660	H79CDP	0- -40	497	-10	6	.9996	491	-6	9	.9992
1661	H81CDP	0- -41	440	1	4	.9998	438	-12	7	.9993
1662	H83CDP	0- -42	0	0	0	1.0000	0	0	0	1.0000
1663	H85CDP	0- -43	404	1	8	.9990	431	22	18	.9963
1664	H87CDP	0- -44	314	1	10	.9974	321	-3	12	.9963
1665	H91CDP	0- -45	247	-8	5	.9990	255	-1	6	.9986
1666	H93CDP	0- -46	203	1	20	.9772	225	-10	32	.9561
1667	H95CDP	0- -47	648	-103	321	.6340	628	194	246	.7201
1668	H97CDP	0- -48	0	0	0	1.0000	0	0	0	1.0000
1669	H99CDP	0- -49	37	-3	8	.8926	36	-2	8	.9111
1670	H101CDP	0- -50	65	1	5	.9849	35	5	14	.9206
1671	H103CDP	0- -51	0	0	0	1.0000	0	0	0	1.0000
1672	H105CDP	0- -52	41	7	6	.9587	38	-2	7	.9279
1673	H107CDP	0- -53	-24	22	4	.9670	-23	-10	4	.9394
1674	H89CDP	0- -54	0	0	0	1.0000	0	0	0	1.0000
1675	H85FF(C)	0- -55	-21	196	7	.9983	-18	197	6	.9987
1676	B80PMHRH	0- -56	-3	-1	7	.0882	0	-5	7	.2955
1677	B80PMHRD	0- -57	44	58	6	.9908	43	56	7	.9739
1678	B80PMHRV	0- -58	-262	42	6	.9983	-260	53	6	.9990
1679	B80P19(A)(FC)	0- -59	-217	-205	5	.9995	-220	-206	4	.9995
1680	H96519(D)	0- -60	-51	11	20	.7123	-22	11	20	.5485
1681	B92P7MMS	0-A- 1	-275	-10	8	.9978	-311	37	16	.9940
1682	B92P7MMP	0-A- 2	-67	76	14	.9566	-101	45	8	.9924
1683	B92S8MMS	0-A- 3	-373	-122	33	.9877	-343	-60	19	.9917
1684	B92S8MMP	0-A- 4	0	0	0	1.0000	0	0	0	1.0000
1685	B86COMMP	0-A- 5	-165	8	6	.9960	-164	2	9	.9925
1686	B86COMMS	0-A- 6	166	13	4	.9985	164	-4	5	.9978
1687	B86P7MMP	0-A- 7	-123	7	5	.9956	-129	7	5	.9969
1688	B86P7MMS	0-A- 8	79	0	5	.9900	80	-4	6	.9869
1689	B80P1MMS	0-A- 9	-66	11	10	.9436	-53	21	5	.9847
1690	B80P1MMP	0-A-10	4	13	12	.9843	11	13	5	.8158
1691	F82P11M	0-A-11	-85	-54	13	.9769	-82	-52	5	.9932
1692	H80P17(LF)	0-A-12	-76	-90	15	.9608	-75	-88	6	.9939
1693	B86P20(C)	0-A-13	-3	32	12	.8323	12	31	4	.9767
1694	B86P11MHRH	0-A-14	9	16	23	.4140	17	22	4	.9174
1695	B86P11MHRD	0-A-15	10	37	9	.9440	23	35	5	.9738
1696	B86P11MHRV	0-A-16	-17	26	8	.8856	-11	23	5	.9630
1697	B86P11MP(HSU)	0-A-17	26	27	13	.8722	55	41	17	.8525
1698	B86P11MP(HSL)	0-A-18	-38	22	5	.9637	-32	20	7	.9523
1699	F86P11P(C)	0-A-19	-46	-8	9	.9295	-49	-8	10	.8978
1700	B80P11F1P(BB)	0-A-20	82	22	5	.9941	87	19	7	.9772
1701	H80P15P14P(LF)	0-A-21	133	-214	4	.9995	128	-222	5	.9996
1702	B86P9W(C)	0-A-22	0	0	0	1.0000	0	0	0	1.0000
1703	B86P8 SP(BB)	0-A-23	-7	2	4	.9655	-12	-3	5	.6930
1704	B80P2P(C)	0-A-24	-63	25	6	.9742	-60	22	6	.9852
1705	B86S7MMP(C)	0-A-25	-26	-18	6	.9582	-10	-13	5	.8450
1706	H85 9519P(C)	0-A-26	0	0	0	1.0000	0	0	0	1.0000
1707	B8059 SMFRH	0-A-27	-21	15	10	.6915	-11	24	16	.7366
1708	B8059 SMFRD	0-A-28	-29	14	5	.9803	-24	16	8	.9044
1709	B8059 SMFRV	0-A-29	40	-11	3	.9854	39	-11	5	.9760
1710	B925MM7(BMSU)	0-A-30	63	51	4	.9867	67	51	3	.9952
1711	H80595(SL)	0-A-31	0	0	0	1.0000	0	0	0	1.0000
1712	H85 956 SP(HSU)	0-A-32	-86	143	4	.9987	-82	144	5	.9984
1713	H85 956 SP(HSL)	0-A-33	399	-31	5	.9996	400	-35	4	.9997
1714	H86S3S(SU)	0-A-34	0	0	0	1.0000	0	0	0	1.0000
1715	H86S3S(SL)	0-A-35	-57	11	17	.8078	-21	16	36	.3595
1716	H86 153 SP(HSL)	0-A-36	-65	108	3	.9988	-67	108	6	.9976
1717	H86 153 SP(HSD)	0-A-37	-199	-91	7	.9984	-197	-86	9	.9988
1718	B86S11 9MHRH	0-A-38	15	-14	5	.8720	26	-9	4	.9562
1719	B86S11 9MHRV	0-A-39	91	-24	17	.9152	108	-25	14	.9701
1720	B86S11 9MHRD	0-A-40	62	-8	5	.9766	56	-8	8	.9566
1721	H86 1517 SP(HSU)	0-A-41	695	67	5	.9999	694	56	4	.9999
1722	H86 1517 SP(HSL)	0-A-42	-755	67	9	.9997	-754	67	11	.9995
1723	H86 156 SP(HSU)	0-A-43	358	-69	4	.9997	357	-54	5	.9996
1724	H86 156 SP(HSL)	0-A-44	-248	112	6	.9985	-247	119	6	.9993
1725	H88 9519P(CU)	0-A-45	-183	124	4	.9989	-186	126	5	.9993

TABLE B.2 (Continued)

GAGE NUMBER	GAGE NAME	POSITION	COMBINED LOADING @ 60 DEGREE LAG			COMBINED LOADING @ 240 DEGREE LAG				
			SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	SENSITIVITY/100% VERTICAL	LATERAL	ERROR OF ESTIMATE	CORRELATION COEFFICIENT
1726	H86 5519P(CL)	O-A-48	-100	109	9	9899	-95	125	9	9958
1727	H86 1545(U)	O-A-47	-263	51	8	9976	254	55	4	9995
1728	H86 1585(L)	O-A-48	-305	61	15	9936	-287	59	14	9954
1729	H86 1P8 SP(MSU)	O-A-49	313	59	6	9992	316	62	5	9994
1730	H86 1P8 SP(MSL)	O-A-50	-228	-120	7	9990	-239	-113	19	9831
1731	B9257MZS(BM)	O-A-51	-196	-47	17	9858	-141	-22	18	9560
1732	B9257MIP(BM)	O-A-52	-10	-5	6	7177	8	-16	5	9078
1733	B8653MHP(BM)	O-A-53	76	6	5	9822	-75	3	5	9901
1734	B8653MMS(BM)	O-A-54	90	1	14	9472	-09	9	7	9577
1735	B8653MZP(BM)	O-A-55	6	6	7	4130	-5	1	4	4421
1736	B8653MZS(BM)	O-A-56	-84	6	6	9870	-83	1	5	9902
1737	B8059MMS(BM)	O-A-57	-49	-7	8	9453	-50	-9	8	9376
1738	B8059MHP(BM)	O-A-58	324	8	62	9210	-172	37	21	9598
1739	B8059MIS(BM)	O-A-59	72	-10	7	9778	-24	-55	53	4735
1740	H89P2M2IO	O-A-60	47	-5	15	8021	44	-2	13	8380
1741	H7852OP(CU)	O-B-1	-229	209	6	9990	-226	213	8	9991
1742	H7852OP(CL)	O-B-2	-213	213	4	9996	-213	220	5	9996
1743	B80511MMP(C)	O-B-3	-58	6	6	9752	-62	4	6	9615
1744	H80511P(C)	O-B-4	0	0	0	10000	0	0	0	0000
1745	H79 5520P(FC)	O-B-5	-167	-62	7	9972	-169	-65	7	9906
1746	H79 5520P(AC)	O-B-6	-85	-53	5	9969	-90	-53	7	9847
1747	H79 5520P(ACL)	O-B-7	-64	-58	4	9968	-65	-53	4	9922
1748	B8400MHP(C)	O-B-8	-33	-9	11	8373	-33	0	13	7348
1749	B5658 SMFRY(BB)	O-B-9	9	-32	24	5826	12	-7	15	2749
1750	B5658 SMFRD(BB)	O-B-10	-53	5	18	7878	-44	15	11	9087
1751	B5658 SMFRH(BB)	O-B-11	-11	-21	19	5980	-12	-24	11	7981
1752	B56P8 SMFRV(BB)	O-B-12	4	-60	30	7609	12	-42	19	8192
1753	B56P8 SMFRD(BB)	O-B-13	-49	-68	19	9431	-46	-54	12	9303
1754	B56P8 SMFRH(BB)	O-B-14	-30	-35	37	6364	-14	-28	12	8019
1755	M64P8(SUA)	O-B-15	93	-83	26	8957	87	-57	28	9068
1756	M64P8(SLA)	O-B-16	-79	-26	10	9748	-71	-25	6	9792
1757	M64P8(SUF)	O-B-17	-19	-34	14	8685	-29	-21	19	5831
1758	M64P8(SLF)	O-B-18	-177	-2	15	9876	-168	-15	13	9841
1759	B64P11FIP(CU)	O-B-19	43	4	10	8885	74	14	14	9126
1760	B64P11FIP(CL)	O-B-20	125	-5	8	9902	129	-11	9	9884
1761	H61 2520P(CM)	O-B-21	-467	338	8	9995	-424	339	9	9996
1762	H61 2520P(CL)	O-B-22	0	0	0	10000	0	0	0	0000
1763	M60P9 SP(C)	O-B-23	-369	-193	8	9994	-371	-192	6	9993
1764	H58 6P20P(C)	O-B-24	-272	-336	8	9996	-276	-341	5	9997
1765	H61 3P20P(C)	O-B-25	-263	-319	7	9996	-267	-316	4	9998
1766	H58 6P20P(CU)	O-B-26	0	0	0	10000	0	0	0	0000
1767	H58 6P20P(CL)	O-B-27	-278	-310	11	9992	-280	-314	6	9995
1768	H59 5P6P(C)	O-B-28	-43	-3	8	9227	-41	0	7	9092
1769	B8059M2P(BM)	O-B-29	18	-4	5	8417	21	-5	5	9238
1770	B64P8MMP(BM)	O-B-30	6	-64	20	8771	-2	-50	24	7700
1771	H7455P(C)	O-B-31	-370	102	9	9984	-374	106	9	9990
1772	H7355P(C)	O-B-32	-395	102	7	9991	-393	97	5	9997
1773	H6755P(C)	O-B-33	-517	122	5	9997	-510	126	5	9999
1774	H67P5P(UC)	O-B-34	-407	-102	3	9999	-403	-105	2	9999
1775	H67 2P5P(UC)	O-B-35	-438	-109	7	9996	-439	-109	7	9992
1776	H69P5P(LP)	O-B-36	58	44	4	9951	62	44	5	9883
1777	H60P6P(C)	O-B-37	-467	-141	7	9996	-460	-139	8	9992
1778	H94520P(FC)	O-B-38	-20	-24	4	9743	-22	-19	7	8579
1779	H77P10 LP	O-B-39	-500	-180	4	9999	-507	-175	7	9995
1780	H94520P(AC)	O-B-40	37	-22	6	9383	29	-19	10	8960
1781	H94516 SP(CU)	O-B-41	-3	-13	4	8954	-1	-9	3	8442
1782	H94516 SP(CL)	O-B-42	-43	-19	5	9811	-48	-17	7	9396
1783	H91P19P(C)	O-B-43	-19	22	5	9279	-26	20	7	9406
1784	H9958 SP	O-B-44	-231	170	7	9984	-230	175	10	9984
1785	B86P911P	O-B-45	-85	4	6	8662	-85	2	5	9511
1786	H91P19P(AC)	O-B-46	34	35	4	9902	41	37	6	9678
1787	H91P19P(FC)	O-B-47	-1	-34	6	9608	4	-34	6	9644
1788	H97 9P18P(LF)	O-B-48	-3	49	15	8930	24	41	8	9492
1789	H101P20P(AC)	O-B-49	-94	-16	7	9888	-93	-19	5	9917
1790	H80P19P18P(FC)	O-B-50	-250	-205	6	9996	-257	-204	6	9990
1791	H79 SP18P(CU)	O-B-51	-63	-211	6	9991	-64	-211	5	9991
1792	H79 SP18P(CL)	O-B-52	-84	-215	6	9992	-83	-214	4	9994
1793	H63 9P13S(C)	O-B-53	-389	-88	7	9993	-380	-71	6	9994
1794	H79 9P15P(C)	O-B-54	14	-198	7	9981	12	-200	8	9980
1795	B64P12 9P(LP)	O-B-55	-108	-116	19	9817	-143	-101	18	9679
1796	B64P12 9P(SC)	O-B-56	63	11	7	9749	69	15	6	9783
1797	H65P22P(C)	O-B-57	73	19	15	9321	66	33	9	9577
1798	B64P 1MMP(C)	O-B-58	-119	0	4	9972	-118	1	2	9990
1799	B64S 1MMP(C)	O-B-59	-5	-23	14	7126	-7	-16	19	3704
1800	B108P1MMP(D)	O-B-60	-15	4	9	5128	-18	-1	9	6395

TABLE B.3 - STRAIN SENSITIVITIES FROM STATISTICAL ANALYSIS OF  
ASEM STATIC TEST DATA

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1	B8C0MMP	9--1		65	6	9820	4	-2	6	5885	2
2	B8P4MMP	9--2		57	13	8344	1	21	14	8114	4
3	B8P7MMP	9--3		1	35	1982	3	11	25	2030	1
4	B8C0MFP	9--4		0	0	1.0000	1	90	26	7454	2
5	B8P2MFP	9--5		-56	5	9929	1	44	5	9817	2
6	B8S4MFP	9--6		73	15	9023	1	-24	44	3830	3
7	B8S7MMP	9--7		14	2	9940	1	-14	1	9571	1
8	B8S2MFP	9--8		-50	4	-915	1	-42	4	9765	2
9	B8C0HHRH	9--9	YES	-29	121	6079	1	0	0	1.0000	1
10	B8C0HHRD	9--10		-384	20	-919	3	13	2	9890	1
11	B8C0HHRV	9--11		44	10	8692	3	6	2	8882	2
12	B8P111RV	9--12	YES	0	1	3765	3	0	0	1149	2
13	B8P111RD	9--13		257	15	9881	1	-77	3	9941	1
14	B8P111RH	9--14		-21	4	9944	1	-12	4	8579	2
15	B8P5FFRV	9--15		87	4	9921	1	186	3	9996	1
16	B8P5FFRD	9--16		157	5	9956	1	80	3	9973	1
17	B8P5FFRH	9--17	YES	-155	4	9885	1	-92	5	9586	3
18	B8S111RH	9--18	YES	-86	6	9856	3	-10	2	8276	2
19	B8S111RD	9--19	YES	0	0	1.0000	1	0	0	1.0000	1
20	B8S111RV	9--20		42	10	9299	4	24	4	9720	2
21	B8S5FFRH	9--21		-121	7	9952	1	84	9	9905	3
22	B8S5FFRD	9--22		164	25	9613	3	-135	25	9613	3
23	B8S5FFRV	9--23		-7	3	9903	1	-332	9	9990	4
24	B8C0MMS	9--24		-272	6	9193	1	-12	4	8531	1
25	B8P4MMS	9--25	YES	0	0	1.0000	1	0	0	1.0000	1
26	B8P7MMS	9--26		-105	2	9986	3	8	1	9986	3
27	B8C0MFS	9--27		0	3	8058	1	1	2	9173	1
28	B8P2MFS	9--28		9	5	9644	1	-14	4	8596	2
29	B8S4MMS	9--29		-234	3	9996	1	37	3	9759	2
30	B8S7MMS	9--30	YES	0	0	1.0000	1	0	0	1.0000	2
31	B8S2MFS	9--31		10	6	9706	1	4	2	9806	2
32	M9C0S	9--32		31	1	9991	1	-9	3	8319	1
33	M9P11P	9--33		40	3	9783	1	-4	6	9149	3
34	M9S11P	9--34		40	2	9920	1	9	3	9408	2
35	M11C0S	9--35	YES	0	0	1.0000	1	0	0	1.0000	2
36	M11S11P	9--36		24	6	9305	1	16	4	9701	2
37	M13C0S	9--37		-62	4	9943	1	-3	4	2890	2
38	M13P12P	9--38	YES	0	0	1.0000	1	0	0	1.0000	2
39	M13S12P	9--39		-19	3	9903	1	27	3	9768	2
40	M15C0S	9--40		91	4	9981	1	0	4	9263	2
41	M15S13P	9--41		-80	5	9960	1	17	4	9724	2
42	M17C0S	9--42		-104	3	9987	1	-1	4	8069	2
43	M17P13P	9--43		-38	4	9947	1	-32	6	9055	2
44	M17S13P	9--44		-33	4	9937	1	42	3	9920	2
45	M19C0S	9--45		-141	2	9997	1	-8	3	8157	2
46	M19S13P	9--46		-25	3	9939	1	87	7	9888	3
47	M23C0S	9--47		-14	2	9997	1	4	5	9004	2
48	M23S13 9P	9--48		-188	3	9995	1	104	4	9968	2
49	M25P13P	9--49		-179	3	9996	1	-123	3	9985	2
50	M25S13P	9--50		-175	2	9997	1	128	2	9995	2
51	M27C0S	9--51		-125	21	9614	1	5	33	8787	3
52	M27S14P	9--52		-213	11	9952	3	170	11	9952	3
53	M29C0S	9--53	YES	0	0	1.0000	1	0	0	1.0000	2
54	M29P14P	9--54	YES	0	0	1.0000	1	0	0	1.0000	2
55	M29S14P	9--55		-237	3	9996	1	188	3	9994	2
56	M31C0S	9--56		-322	2	9999	1	-3	5	9312	2
57	M31S14P	9--57		-347	2	9999	1	212	2	9998	2
58	H24 1S20P(C)	9--58		-214	2	9998	1	119	2	9995	2
59	F954P(C)	9--59		-30	2	9998	1	80	2	9991	2
60	H36P18 S(D)	9--60		1	1	9953	1	-1	2	9180	2
61	B16C0MMP	9-A-1		168	7	9982	3	-2	7	9962	3
62	B16C0MMS	9-A-2		-272	33	9780	1	-5	37	9501	3
63	B16P4MMP	9-A-3		197	16	9824	4	42	15	7843	2
64	B16P4MMS	9-A-4	YES	8	10	2841	1	0	0	1.0000	4
65	B16P8MMP	9-A-5		202	31	9420	1	29	31	9532	4
66	B16P8MMS	9-A-6		3	20	3455	4	73	18	8313	2
67	B16C0MFP	9-A-7		78	10	9624	4	2	8	5584	2
68	B16C0MFS	9-A-8		103	9	9708	1	-4	4	9073	2
69	B16P3MFP	9-A-9		-28	31	7240	3	59	31	7240	3
70	B16P3MFS	9-A-10		269	27	9784	4	17	22	3366	2
71	B16C0F1P	9-A-11		109	12	9854	1	0	5	7552	2
72	B16C0F1S	9-A-12	YES	0	1	1149	4	0	1	1149	4
73	B16P2F1P	9-A-13		129	11	9771	1	18	10	7691	2
74	B16P2F1S	9-A-14		-22	10	9648	1	4	13	5525	2
75	B16S4MMP	9-A-15		137	12	9824	3	-18	8	5504	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
76	B1654MMS	9-A-16		-153	7	9958	3	-18	5	7550	2
77	B1658MMP	9-A-17	YES	154	16	9728	3	-147	11	9171	2
78	B1650MMS	9-A-18	YES	-119	17	9987	3	-51	13	8599	2
79	B1653MFP	9-A-19	YES	-16	7	2641	1	0	0	1 0000	2
80	B1653MFS	9-A-20		233	29	9616	3	-38	19	6717	2
81	B1652FIP	9-A-21		159	12	9214	1	-12	14	4289	2
82	B1652FIS	9-A-22		-123	15	9608	4	-24	15	9608	4
83	B16CDHRRH	9-A-23		-125	23	7864	1	-33	4	8555	2
84	B16CDHARD	9-A-24		-170	25	8781	1	-16	4	9633	2
85	B16CDHRRV	9-A-25	YES	9	12	2641	1	0	0	1 0000	2
86	B16P31IRV	9-A-26		127	12	5764	1	23	5	9696	2
87	B16P31IRD	9-A-27		147	7	9911	1	-10	6	7944	2
88	B16P31IRH	9-A-28		-215	11	9953	1	20	17	9638	3
89	B16P75FFRV	9-A-29		789	45	9922	4	73	19	8839	2
90	B16P75FFRD	9-A-30	YES	-15	7	2642	1	0	0	1 0000	2
91	B16P75FFRH	9-A-31		-390	10	9988	1	44	16	9953	3
92	B16S31IRH	9-A-32		-188	10	9954	1	-44	14	8691	2
93	B16S31IRD	9-A-33		227	9	9954	1	49	12	9261	2
94	B16S31IRV	9-A-34		216	12	9910	1	-8	10	5083	2
95	B16S75FFRH	9-A-35		17	9	2641	1	-13	20	6383	2
96	B16S75FFRD	9-A-36		404	34	9874	1	-47	36	9742	2
97	B16S75FFRV	9-A-37		653	50	9864	1	-133	12	9100	2
98	F13CONA	9-A-38		-147	10	9361	1	13	14	8672	3
99	F13CONA	9-A-39		-100	3	9930	1	-12	4	6130	2
100	F17COP	9-A-40		216	3	9993	1	1	1	9258	2
101	F213CONA	9-A-41		176	6	9955	1	4	4	8195	2
102	F25CONA	9-A-42		-127	8	8574	0	5	8	8539	4
103	F09CONA	9-A-43		-137	6	9413	3	8	4	9602	2
104	F9COP	9-A-44	YES	4	5	2643	1	0	0	0000	2
105	F13COP	9-A-45		36	4	9702	3	-10	4	8742	2
106	F17CONA	9-A-46		-11	4	9909	1	0	3	8929	2
107	F213CONA	9-A-47		-129	10	7531	3	5	0	7536	3
108	H9COP	9-A-48		-12	8	9563	1	-11	5	8361	2
109	H11COP	9-A-49		68	15	8927	4	2	7	7219	2
110	H13COP	9-A-50	YES	7	9	2642	1	0	0	0000	2
111	H15COP	9-A-51		7	21	2110	3	4	21	3262	2
112	H17COP	9-A-52		-12	56	7996	3	6	56	1996	3
113	H19COP	9-A-53	YES	10	3	2641	1	0	0	0000	2
114	H23COP	9-A-54		190	5	9981	1	-11	5	8799	2
115	H25COP	9-A-55		747	4	9644	1	2	3	9392	2
116	H27COP	9-A-56		37	4	9947	1	-4	5	9317	2
117	H29COP	9-A-57		449	3	9999	1	7	2	9535	2
118	H31COP	9-A-58		534	6	9997	1	3	3	7958	2
119	H47COP	9-A-59		696	5	9999	1	-2	3	9319	2
120	H12595DO	9-A-60		7	4	9687	1	-11	3	7688	2
121	B24COMMP	9-B-1		105	6	9925	4	-8	6	9925	4
122	B24COMMS	9-B-2		-790	43	9450	3	74	43	9450	3
123	B24S4MMP	9-B-3		44	6	9695	4	-15	6	9695	4
124	B24P4MMS	9-B-4	YES	0	0	1 0000	1	0	0	1 0000	2
125	B24S7MMP	9-B-5		43	3	9763	1	7	7	2270	2
126	B24P7MMS	9-B-6		-80	14	9546	3	88	12	9563	2
127	B24COMFP	9-B-7		83	6	9615	4	3	3	9007	2
128	B24CDHRS	9-B-8		-12	5	9848	1	7	8	8390	3
129	B24S4MFP	9-B-9		4	6	9697	1	-18	4	9019	2
130	B24P5MFS	9-B-10		149	22	9339	1	45	13	8678	2
131	B24LDFIP	9-B-11		60	8	9360	1	8	4	8983	2
132	B24LDFIS	9-B-12	YES	0	1	1198	4	0	1	1198	4
133	B24S3FIP	9-B-13		47	-2	9332	4	-18	4	8399	2
134	B24P3FIS	9-B-14		-48	8	9871	1	27	6	9626	2
135	B24P4MMP	9-B-15		80	7	9795	4	19	5	8644	2
136	B24S4MMS	9-B-16		-171	6	9982	1	-52	5	9551	2
137	B24P7MMP	9-B-17	YES	99	4	9952	1	4	9	9940	3
138	B24S7MMS	9-B-18	YES	-44	18	8963	1	51	9	9269	2
139	B24P5MFP	9-B-19	YES	0	0	1 0000	1	0	0	1 0000	2
140	B24S4MFS	9-B-20		55	9	9496	4	-10	4	9496	4
141	B24P3FIP	9-B-21		88	-2	9334	1	20	5	9364	2
142	H24S3FIS	9-B-22		-44	7	9601	3	-15	6	6056	2
143	B24CDHRRH	9-B-23		-207	9	9945	3	31	8	9181	2
144	B24CDHRRD	9-B-24		-190	9	9898	1	76	8	8844	2
145	B24CDHRRV	9-B-25	YES	0	0	1 0000	1	0	0	1 0000	2
146	B24P41IRH	9-B-26		354	12	9968	3	88	11	9716	2
147	B24P41IRD	9-B-27		-114	6	9916	3	39	6	9916	3
148	B24P41IRV	9-B-28		117	8	9807	1	12	6	8403	2
149	B24P9FFRV	9-B-29		408	26	9887	1	142	19	9628	2
150	B24P9FFRD	9-B-30	YES	0	0	1 0000	1	0	0	1 0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
151	B2489FFRH	9-B-31		-242	11	9945	4	-3	11	9945	4
152	B248411RH	9-B-32		-353	15	9948	3	-77	12	9487	2
153	B248411RD	9-B-33		0	0	1 0000	1	-39	5	9414	2
154	B248411RY	9-B-34		82	7	9654	7	-13	6	7079	2
155	B2489FFRH	9-B-35		-171	7	9977	1	-33	13	9904	3
156	B2489FFRD	9-B-36		111	9	9721	1	-41	9	8445	2
157	B2489FFRV	9-B-37		258	17	9887	1	-38	12	7160	2
158	129COP	9-B-38		342	3	9997	1	-8	5	9994	4
159	129COP	9-B-39		292	2	9999	2	0	3	9996	4
160	B32CO 1M2P(C)	9-B-40		-244	4	9994	1	5	4	9422	2
161	M31 9COP(C)	9-B-41		-563	3	1 0000	1	11	4	9685	2
162	M22 659 SP(C)	9-B-42		-268	5	9994	1	71	7	9982	3
163	M23P 3P(C)	9-B-43		-186	2	9998	1	-35	3	9625	2
164	M22 5P 3P(C)	9-B-44		-182	3	9994	1	-13	3	8781	2
165	M12 5P 4P(C)	9-B-45		-48	3	9976	1	-4	4	9652	3
166	M12 5P 5P(C)	9-B-46		-49	2	9988	1	-6	2	8995	2
167	M12 5P4P(C)	9-B-47		-49	3	9984	1	-17	3	8466	2
168	B24P 11 6P(SC)	9-B-48		129	12	9705	1	47	6	9719	2
169	H23 958 SP(HSL)	9-B-49		-292	4	9997	1	104	4	9994	3
170	H23 958 SP(HSU)	9-B-50		392	4	9998	1	-17	5	9986	4
171	H23 99A SP(HSL)	9-B-51		-298	15	9931	4	-73	15	9931	4
172	H23 99A SP(HSU)	9-B-52		345	10	9978	4	61	6	9806	2
173	M60S 9P(C)	9-B-53	YES	0	0	1 0000	1	0	0	1 0000	2
174	M48 1P8P(C)	9-B-54		-336	5	9995	1	-133	4	9974	2
175	B48S5MMS(BM)	9-B-55		60	16	8505	4	26	2	9884	2
176	B48S5M2P(BM)	9-B-56		-145	24	9327	3	37	3	9955	2
177	B48S5M2S(BM)	9-B-57		-104	35	7950	3	24	7	9417	2
178	B48S5 1M2P(BM)	9-B-58		-53	13	8599	3	17	13	8599	3
179	M49 559P(1P)	9-B-59		0	0	1 0000	1	160	3	9993	2
180	H28P17 5(D)	9-B-60		1	2	1205	1	0	2	2484	4
181	B40C0TTP	8- - 1	YES	0	1	2019	1	1	1	8982	3
182	B40C0TTS	8- - 2	YES	1	1	1669	4	0	0	1596	2
183	B40P4TTP	8- - 3	YES	0	0	-1269	4	0	0	1269	4
184	B40P4TTS	8- - 4	YES	0	0	2976	1	0	1	2343	2
185	B40P6TTP	8- - 5	YES	0	0	2976	1	0	0	1 0000	2
186	B40P8TTS	8- - 6	YES	1	1	6649	1	0	1	1715	2
187	B40C0ZTP	8- - 7	YES	0	0	2976	1	0	0	1929	2
188	B40C0ZTS	8- - 8	YES	0	0	1 0000	1	0	0	1 0000	2
189	B40P4ZTP	8- - 9	YES	0	1	-5101	1	0	0	1 0000	2
190	B40P4ZTS	8- - 10	YES	0	0	3830	1	0	0	2058	4
191	B40P8ZTP	8- - 11	YES	0	2	9516	1	0	2	1010	3
192	B40P6ZTS	8- - 12	YES	-1	1	4707	1	0	1	1284	2
193	B40C0M2P	8- - 13	YES	0	1	6857	1	0	0	1 0000	2
194	B40C0M2S	8- - 14	YES	0	0	2976	1	0	1	2082	3
195	B40C0MFP	8- - 15	YES	0	1	3123	1	1	2	5741	2
196	B40C0MFS	8- - 16	YES	-1	1	8631	1	0	0	1 0000	2
197	B40P7MFP	8- - 17	YES	0	1	3526	4	0	0	1 0000	2
198	B40P7MFS	8- - 18	YES	-1	1	4588	1	0	0	1 0000	2
199	B40C0F1P	8- - 19	YES	0	0	1 0000	1	0	0	1 0000	2
200	B40C0F1S	8- - 20	YES	0	0	1262	1	0	0	3275	4
201	B40P6F1P	8- - 21	YES	0	0	1129	4	0	0	1129	4
202	B40P6F1S	8- - 22	YES	0	0	0981	3	0	0	0981	3
203	B40S4TTP	8- - 23	YES	0	0	2339	4	0	0	2339	4
204	B40S4TTS	8- - 24	YES	0	0	1 0000	1	0	0	1 0000	2
205	B40S8TTP	8- - 25	YES	0	0	1 0000	1	0	0	1 0000	2
206	B40S8TTS	8- - 26	YES	-1	0	8882	1	0	1	2346	2
207	B40S4ZTP	8- - 27	YES	0	0	1 0000	1	0	0	1 0000	2
208	B40S8ZTP	8- - 28	YES	0	0	1523	1	0	0	2513	4
209	B40S8ZTS	8- - 29	YES	0	1	2119	4	0	1	2119	4
210	B40S8ZTS	8- - 30	YES	0	0	2046	3	0	0	1 0000	2
211	B40S4MFP	8- - 31	YES	0	0	1598	4	0	0	1598	4
212	B40S4MFS	8- - 32	YES	0	0	1 0000	1	0	0	1 0000	2
213	B40S6F1P	8- - 33	YES	0	0	0981	3	0	0	0981	3
214	B40S6F1S	8- - 34	YES	1	1	2917	4	0	0	1 0000	2
215	B40C0HHRH	8- - 35	YES	0	1	1228	4	0	0	1 0000	2
216	B40C0HHRD	8- - 36	YES	0	1	1839	4	0	0	1 0000	2
217	B40C0HHRV	8- - 37	YES	1	1	2684	1	-1	1	3145	2
218	B40P611RH	8- - 38	YES	0	0	1683	4	0	0	1683	4
219	B40P611RD	8- - 39	YES	0	1	2216	4	0	1	2216	4
220	B40P611RV	8- - 40	YES	-1	1	2409	1	0	1	0901	4
221	B40P9F1RY	8- - 41	YES	0	1	-0388	3	0	0	2158	2
222	B40P9F1RD	8- - 42	YES	0	1	2660	3	0	0	1 0000	2
223	B40P9F1RH	8- - 43	YES	0	1	2049	4	0	0	1 0000	2
224	B40P12FFRV	8- - 44	YES	0	0	1683	4	0	0	1683	4
225	B40P12FFRD	8- - 45	YES	1	1	2564	4	0	0	1 0000	2



TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
226	B40P12FFRH	B-A-46	YES	0	0	0.981	4	0	0	1.0000	2
227	B40S611RV	B-A-47	YES	0	1	3393	1	0	0	1.0000	2
228	B40S611RD	B-A-48	YES	0	1	1945	3	0	0	1.731	2
229	B40S611RH	B-A-49	YES	0	1	1014	1	0	0	1.0000	2
230	B40S9F1RH	B-A-50	YES	0	0	0.819	3	0	0	0.819	3
231	B40S9F1RD	B-A-51	YES	0	1	3723	3	0	0	3404	1
232	B40S9F1RV	B-A-52	YES	0	0	1.0000	1	0	0	1.0000	1
233	B40S12FFRH	B-A-53	YES	0	1	224	4	0	0	2518	1
234	B40S12FFRD	B-A-54	YES	0	0	2627	3	0	0	1321	1
235	B40S12FFRV	B-A-55	YES	0	0	1.0000	1	0	0	1.0000	1
236	B48COMMP	B-A-56	YES	1	1	3500	4	0	1	3500	4
237	B48S8 4MFRV	B-A-57	YES	0	0	0.60	4	0	0	1.0000	2
238	B48S8 4MFRD	B-A-58	YES	1	1	2213	4	0	1	2213	4
239	B48S8 4MFRH	B-A-59	YES	1	1	2472	1	0	1	2472	1
240	W46P227(D)	B-A-60	YES	0	1	2497	1	0	0	1.0000	2
241	B48CDTTP	B-A-1	YES	0	1	2885	3	0	1	274	2
242	B48CDTTS	B-A-2	YES	0	1	4256	4	0	0	2283	2
243	B48P4TTP	B-A-3	YES	0	1	1062	3	0	0	2241	1
244	B48P4TTS	B-A-4	YES	0	0	2524	1	0	0	1610	4
245	B48P8TTP	B-A-5	YES	0	0	0.48	3	0	0	0.581	3
246	B48P8TTS	B-A-6	YES	0	1	6208	1	0	0	2582	3
247	B48CDZTP	B-A-7	YES	0	0	0.481	4	0	0	1.0000	2
248	B48CDZTS	B-A-8	YES	0	1	2374	1	0	0	1.0000	2
249	B48P4ZTP	B-A-9	YES	0	1	4902	1	0	0	1.0000	2
250	B48P4ZTS	B-A-10	YES	0	1	5899	1	0	0	3981	1
251	B48P8ZTP	B-A-11	YES	0	0	1594	1	0	0	2417	2
252	B48P8ZTS	B-A-12	YES	0	0	1269	3	0	0	1.0000	1
253	B48CDM2P	B-A-13	YES	0	1	0.04	4	0	0	0.918	2
254	B48CDM2S	B-A-14	YES	0	0	1.673	1	0	0	2116	3
255	B48CDM2P	B-A-15	YES	0	0	1350	4	0	0	1.0000	2
256	B48P6MFS	B-A-16	YES	0	0	1714	1	0	0	1.0000	1
257	B48P6MFP	B-A-17	YES	0	0	1020	1	0	0	1.0000	1
258	B48P6MFS	B-A-18	YES	0	1	1001	3	0	0	1.0000	3
259	B48CDF1P	B-A-19	YES	0	0	1.0000	1	0	0	1.0000	1
260	B48CDF1S	B-A-20	YES	0	0	1236	4	0	0	1.236	4
261	B48P6F1P	B-A-21	YES	0	0	1596	4	0	0	1.0000	2
262	B48P6F1S	B-A-22	YES	0	0	0.924	4	0	0	0.924	4
263	B48S4TTP	B-A-23	YES	0	1	2322	4	0	0	1.731	2
264	B48S4TTS	B-A-24	YES	0	0	1.0000	1	0	0	1.0000	2
265	B48S8TTP	B-A-25	YES	0	0	1.0000	1	0	0	1.0000	1
266	B48S8TTS	B-A-26	YES	0	1	3483	4	0	1	3483	4
267	B48S4ZTP	B-A-27	YES	0	0	1.0000	1	0	0	1.0000	2
268	B48S4ZTS	B-A-28	YES	0	0	2435	4	0	1	2435	4
269	B48S8ZTP	B-A-29	YES	0	0	1.0000	1	0	0	1.0000	2
270	B48S8ZTS	B-A-30	YES	0	0	0.856	1	0	0	1.0000	2
271	B48S6MFP	B-A-31	YES	0	0	3563	1	0	1	2022	2
272	B48S6MFS	B-A-32	YES	0	0	1.0000	1	0	0	1.0000	2
273	B48S6F1P	B-A-33	YES	0	1	0763	1	0	0	1.0000	1
274	B48S6F1S	B-A-34	YES	0	1	1847	4	0	1	2058	2
275	B48CDHHRH	B-A-35	YES	0	1	3505	4	0	1	0309	2
276	B48CDHHRD	B-A-36	YES	0	1	2336	3	0	1	1966	2
277	B48CDHHRV	B-A-37	YES	0	1	1684	4	0	0	1684	4
278	B48P711RV	B-A-38	YES	0	0	0.852	3	0	0	0.852	3
279	B48P711RD	B-A-39	YES	0	0	1349	3	0	0	1349	3
280	B48P711RH	B-A-40	YES	0	1	2052	1	0	1	2220	2
281	B48P10F1RV	B-A-41	YES	0	1	2120	1	0	0	2057	2
282	B48P10F1RD	B-A-42	YES	0	0	1708	3	0	0	1.0000	2
283	B48P10F1RH	B-A-43	YES	0	1	0779	3	0	0	1.0000	2
284	B48P12FFRV	B-A-44	YES	0	0	0713	4	0	0	0713	4
285	B48P12FFRD	B-A-45	YES	0	1	2175	3	0	0	1.0000	2
286	B48P12FFRH	B-A-46	YES	0	1	1031	4	0	0	1.0000	2
287	B48S711RH	B-A-47	YES	0	1	2035	1	0	0	2548	2
288	B48S711RD	B-A-48	YES	0	1	2133	1	0	1	2464	2
289	B48S711RV	B-A-49	YES	0	0	1395	1	0	0	1.0000	2
290	B48S10F1RH	B-A-50	YES	0	1	1152	1	0	0	1.0000	2
291	B48S10F1RD	B-A-51	YES	0	1	1169	3	0	0	1.0000	2
292	B48S10F1RV	B-A-52	YES	0	0	1.0000	1	0	0	1.0000	2
293	B48S1211RH	B-A-53	YES	0	1	1965	4	0	1	1965	4
294	B48S1211RD	B-A-54	YES	1	1	5747	4	0	1	5747	4
295	B48S1211RV	B-A-55	YES	0	0	1.0000	1	0	0	1.0000	2
296	H48 1S20P(C)	B-A-56	YES	0	2	7320	4	0	2	7320	4
297	B48S13MMS(C)	B-A-57	YES	0	0	2214	4	0	0	2214	4
298	B56S91(P)(C)	B-A-58	YES	0	0	3611	1	0	0	1.0000	2
299	B56P4MMS(C)	B-A-59	YES	0	1	1339	1	0	3	3794	3
300	B40P1(DK)	B-A-60	YES	0	1	2025	1	0	0	1.0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
301	M30 4P10W	8-B-1	YES	-1	1	3269	4	0	1	2807	2
302	M30 4P10 SP	8-B-2	YES	1	1	2685	4	0	0	0000	2
303	M30 4P11W	8-B-3	YES	0	1	1890	3	0	1	4379	2
304	M30 4P11 SP	8-B-4	YES	0	1	2571	1	0	0	1607	2
305	M30 4P12W	8-B-5	YES	0	1	2672	4	0	1	1642	2
306	M30 4P13W	8-B-6	YES	0	0	1897	4	0	0	1897	4
307	M31 2P10W	8-B-7	YES	0	1	2078	1	0	0	0000	2
308	M31 2P10 SPRL	8-B-8	YES	0	1	1267	4	0	0	0000	2
309	M31 2P10 SPRD	8-B-9	YES	0	0	2116	4	0	C	2116	4
310	M31 2P10 SPRH	8-B-10	YES	0	0	0924	4	0	0	0924	4
311	M31 2P11W	8-B-11	YES	0	1	1918	4	C	1	1958	4
312	M31 2P11 SP	8-B-12	YES	0	0	0508	4	0	0	0508	4
313	M31 2P12W	8-B-13	YES	0	1	5997	1	0	1	0781	2
314	M31 2P13W	8-B-14	YES	0	0	2044	3	0	0	2044	3
315	M31 2P14W	8-B-15	YES	0	1	2450	3	0	0	0000	2
316	B40P8MMPH(BB)	8-B-16	YES	1	1	0885	3	0	1	1474	2
317	B32P10MMP	8-B-17	YES	1	1	3174	4	0	0	0635	2
318	B40P8MMD(BB)	8-B-18	YES	-1	1	2879	1	0	0	1365	2
319	B32P10 SMMP	8-B-19	YES	C	0	0000	1	0	0	0000	2
320	B40P8MMPV(BB)	8-B-20	YES	0	0	1683	4	C	0	1683	4
321	M31 8P11 2PRH	8-B-21	YES	0	1	2594	4	0	0	0000	2
322	M31 8P11 2PRD	8-B-22	YES	0	0	1236	3	0	0	1236	3
323	M31 8P11 2PRL	8-B-23	YES	0	0	0714	4	0	0	0714	4
324	M31 8P11 5P	8-B-24	YES	0	0	0000	1	0	0	0000	2
325	M31 8P12W	8-B-25	YES	0	0	0000	1	0	0	0000	2
326	M31 8P13W	8-B-26	YES	-1	1	3847	1	1	1	8194	4
327	M31 8P14W	8-B-27	YES	0	0	0000	1	0	0	0000	2
328	M32 4P10W	8-B-28	YES	0	0	0713	4	0	0	0713	4
329	M32 4P10 5P	8-B-29	YES	0	0	0785	1	0	0	0000	2
330	M32 4P10 7P	8-B-30	YES	0	C	1129	3	0	0	0000	2
331	M32 4P11 1P	8-B-31	YES	0	0	0785	1	0	1	3875	4
332	M32 4P11 3P	8-B-32	YES	C	0	0000	1	0	0	0000	2
333	M32 4P11 SPRH	8-B-33	YES	0	0	1129	4	0	0	1129	4
334	M32 4P11 SPRD	8-B-34	YES	0	0	0955	1	0	0	0000	2
335	M32 4P11 SPRL	8-B-35	YES	0	0	1481	3	0	0	2697	2
336	M32 4P12W	8-B-36	YES	0	0	2461	1	0	0	0000	2
337	M32 4P13W	8-B-37	YES	0	1	2833	1	0	1	1771	3
338	M32 4P14W	8-B-38	YES	0	0	0000	1	0	1	2199	2
339	M31 2511W	8-B-39	YES	0	1	1601	3	0	1	7601	3
340	M31 2512W	8-B-40	YES	0	0	1129	4	0	0	1129	4
341	M31 2513W	8-B-41	YES	0	1	4061	1	-1	1	1349	1
342	M31 2514W	8-B-42	YES	0	1	0857	4	0	0	0000	2
343	M31 8511W	8-B-43	YES	0	1	1207	1	0	0	0000	2
344	M31 8511 2PRL	8-B-44	YES	0	0	1347	4	0	0	1347	4
345	M31 8511 2PRD	8-B-45	YES	0	0	1981	4	0	0	1981	4
346	M31 8511 2PRH	8-B-46	YES	0	1	2494	1	0	0	0000	2
347	M31 8512W	8-B-47	YES	0	1	2418	1	0	0	0000	2
348	M31 8513W	8-B-48	YES	0	1	1801	3	0	1	1801	3
349	M31 8514W	8-B-49	YES	0	0	1022	4	0	0	0000	2
350	M32 8510W	8-B-50	YES	0	1	2077	4	0	C	2257	2
351	M32 8510 7P	8-B-51	YES	0	1	2492	1	0	0	0000	2
352	M32 8511 3P	8-B-52	YES	0	0	0000	1	0	0	0000	2
353	M32 8512W	8-B-53	YES	-1	1	1405	4	0	1	2099	2
354	M32 8513W	8-B-54	YES	1	1	4800	4	0	1	4800	4
355	M32 8514W	8-B-55	YES	0	0	0000	1	0	0	0000	2
356	H24 1517 SP(HSL)	8-B-56	YES	0	1	8554	1	-1	2	7042	4
357	H24 1517 SP(HSU)	8-B-57	YES	-1	1	2739	1	-1	1	4286	3
358	H24 2520 SP(HSL)	8-B-58	YES	0	1	1987	1	0	2	7558	2
359	H24 2520 SP(HSU)	8-B-59	YES	0	1	2478	1	0	1	5687	2
360	WS2P22T(D)	8-B-60	YES	0	1	2462	1	0	1	2445	4
361	M21P13 SP	7- -1		0	0	0000	1	31	3	9916	2
362	M21P12W	7- -2		-5	10	0636	4	0	10	0636	4
363	M21P6W	7- -3		-206	4	9993	1	-60	9	9005	2
364	M21P2W	7- -4		-200	3	9996	1	-32	4	9893	2
365	M21C0W	7- -5	YES	0	0	0000	1	0	0	0000	2
366	M21S2W	7- -6		-192	29	9813	1	27	22	5574	2
367	M21S4W	7- -7		-241	2	9999	1	34	4	9890	2
368	M21S6W	7- -8		-192	3	9991	3	73	2	9983	2
369	M21S8W	7- -9		-194	3	9996	4	77	3	9996	4
370	M21S10W	7- -10		-158	3	9993	1	86	3	9975	2
371	M21S11 SP	7- -11		-184	1	9994	3	73	2	9994	3
372	M21S12W	7- -12		-93	2	9995	1	86	2	9994	2
373	M21S12 SP	7- -13		-75	3	9988	1	72	4	9961	2
374	M21S13W	7- -14		-110	3	9988	1	86	3	9980	2
375	M21S13 SP	7- -15		-47	4	9929	1	100	4	9974	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
376	H16 2S15PICU1	7-A-16		-134	3	9989	1	50	3	9945	2
377	H21COW	7-A-17		170	7	9934	1	8	7	9529	2
378	H21S2W	7-A-18		169	8	9933	1	26	7	9113	2
379	H21P2W	7-A-19		167	4	9985	3	-25	4	9985	3
380	H21S5W	7-A-20		147	2	9995	1	29	2	9937	2
381	H21S7W	7-A-21		103	2	9987	1	36	2	9952	3
382	H21P7W	7-A-22		79	8	9523	3	-30	11	6735	2
383	H21S9W	7-A-23		67	1	9989	1	51	1	9988	1
384	H21S11W	7-A-24		-132	1	9991	1	85	2	9989	1
385	H21P11W	7-A-25		74	2	9964	1	56	3	9919	1
386	H21S13W	7-A-26		60	3	9911	1	64	3	9985	3
387	H21S13 5P	7-A-27		7	2	7448	1	81	3	9979	4
388	H21P13 5P	7-A-28		-16	2	9994	3	-64	2	9990	2
389	H21S14W	7-A-29		22	37	2014	1	67	145	1136	2
390	H21S16W	7-A-30		-78	1	9991	1	80	2	9990	2
391	H21P16W	7-A-31		-115	2	9994	1	76	1	9992	1
392	H21S18W	7-A-32		66	3	9959	1	56	4	9902	2
393	H21P18W	7-A-33		-158	4	9992	3	-83	4	9935	1
394	T33COW	7-A-34		-39	3	9873	3	5	3	9873	3
395	T35COW	7-A-35		32	13	6146	1	2	14	2360	1
396	T37COW	7-A-36		26	47	5429	1	-18	45	5616	2
397	T39COW	7-A-37		22	45	0915	1	7	51	1543	4
398	T41COW	7-A-38		-37	25	3728	1	15	21	0610	2
399	T43COW	7-A-39		-75	1	9974	1	-1	2	8073	2
401	T45COW	7-A-40		-8	2	9053	3	1	1	6298	2
401	T47COW	7-A-41		-11	2	9086	3	2	2	9086	3
402	T33COW	7-A-42		-33	2	4871	4	-2	2	7644	2
403	T35COW	7-A-43		-50	2	9985	1	3	2	9079	1
404	T37COW	7-A-44		-119	2	9996	3	2	1	9145	2
405	T39COW	7-A-45		-178	1	9997	1	1	2	8966	2
406	T41COW	7-A-46		-224	2	9997	1	0	0	10000	2
407	T43COW	7-A-47		-221	1	9999	4	-4	2	8466	1
408	T45COW	7-A-48		-351	2	9999	1	-4	2	7292	2
409	T47COW	7-A-49		-440	20	9956	1	19	29	0552	2
410	M33COW	7-A-50		-288	5	9977	4	11	9	9977	4
411	M35COW	7-A-51		-402	9	9988	1	7	7	3426	2
412	M37COW	7-A-52	YES	0	0	1 0000	1	0	0	1 0000	2
413	M39COW	7-A-53	YES	0	0	1 0000	1	0	0	1 0000	2
414	M41COW	7-A-54	YES	0	0	1 0000	1	0	0	1 0000	2
415	M43COW	7-A-55	YES	0	0	1 0000	1	0	0	1 0000	2
416	M45COW	7-A-56	YES	0	0	1 0000	1	0	0	1 0000	2
417	M47COW	7-A-57	YES	0	0	1 0000	1	0	0	1 0000	2
418	B40S8MMW/C	7-A-58	YES	0	0	1 0000	1	0	0	1 0000	2
419	B40S12MMP/C	7-A-59	YES	0	0	1 0000	1	0	0	1 0000	2
420	B16P12(DB1)	7-A-60	YES	0	0	1 0000	1	0	0	1 0000	2
421	I33 3COP	7-A-1		248	11	9942	1	9	12	9926	3
422	I37COP	7-A-2		371	5	9996	3	7	5	9996	3
423	I41COP	7-A-3		408	11	9981	1	-2	8	8646	2
424	I45 3COP	7-A-4		377	4	9997	1	4	5	9996	3
425	F33 3COW	7-A-5		-27	3	9956	1	2	3	5517	2
426	F37COW	7-A-6		-17	2	9952	1	0	2	8573	2
427	F41COW	7-A-7		-13	4	9985	1	3	11	5125	2
428	F45 3COW	7-A-8		-9	2	9942	1	0	3	9016	2
429	H33COP	7-A-9		596	4	9995	3	-5	4	9999	3
430	H35COP	7-A-10	YES	0	0	1 0000	1	0	0	1 0000	2
431	H37COP	7-A-11		555	4	9998	1	11	6	9995	3
432	H39COP	7-A-12		579	5	9995	4	5	5	6845	2
433	H41COP	7-A-13		640	8	9997	3	-1	8	9997	3
434	H43COP	7-A-14	YES	0	0	1 0000	1	0	0	1 0000	2
435	H45COP	7-A-15	YES	0	0	1 0000	1	0	0	1 0000	2
436	H21COP	7-A-16	YES	0	0	1 0000	1	0	0	1 0000	2
437	M33S11 1P	7-A-17		-318	6	9992	1	143	4	9988	2
438	M33P11 1P	7-A-18		-267	13	9937	4	-100	13	9937	4
439	M35S11 1P	7-A-19		-360	8	9989	1	162	8	9934	2
440	M35P11 1P	7-A-20		-349	9	9983	3	179	9	9983	3
441	M37P11 1P	7-A-21		-399	22	9929	1	-183	24	9911	4
442	M39S11 1P	7-A-22		-46	35	7319	1	16	116	2165	3
443	M41S11 1P	7-A-23		-358	2	9999	3	155	2	9444	3
444	M41P11 1P	7-A-24		-450	3	9999	4	-164	2	9487	2
445	M43S11 1P	7-A-25		-366	2	9999	1	192	2	9997	2
446	M43P11 1P	7-A-26		-374	2	1 0000	4	216	2	1 0000	4
447	M45P11 1P	7-A-27		-479	2	1 0000	4	-241	2	9999	2
448	M47S11 1P	7-A-28		-203	2	9999	3	204	2	9999	3
449	M33S14P	7-A-29		-381	13	9970	3	224	13	9970	3
450	M33P14P	7-A-30	YES	0	0	1 0000	1	0	0	1 0000	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
451	M35S14P	7-A-31		-385	3	9999	3	230	3	9999	3
452	M37S14P	7-A-32		-356	5	9996	1	227	9	9958	2
453	M37P14P	7-A-33		0	0	1.0000	1	-249	5	9989	2
454	M39S14P	7-A-34		-300	29	9757	1	178	88	8350	3
455	M41S14P	7-A-35		-267	128	5557	1	145	149	4408	3
456	M41P14P	7-A-36		-276	21	9869	1	-200	56	9668	3
457	M43S14P	7-A-37		-349	133	8769	4	229	133	8768	4
458	M45S14P	7-A-38		-374	12	9975	1	285	14	9972	3
459	M45P14P	7-A-39	YES	0	0	1.0000	1	0	0	1.0000	2
460	M47S14P	7-A-40		-396	13	9960	3	286	9	9976	2
461	W32 15M20 1RV	7-A-41		259	8	9980	4	-58	4	9869	2
462	W32 15M20 1RD	7-A-42		-682	9	9995	3	129	4	9979	2
463	W32 15M20 1RL	7-A-43		-452	7	9994	4	147	2	9997	2
464	W32 15270 1P	7-A-44		-4	22	4189	4	-36	17	6967	2
465	W35SM20 5P	7-A-45		-416	5	9996	3	175	4	9989	2
466	W35SM22A	7-A-46		-302	6	9991	1	81	6	9990	3
467	W35SM3 9P	7-A-47		-357	5	9996	1	62	4	9914	2
468	W35S27C 1P	7-A-48		-297	3	9998	3	55	3	9998	3
469	W35S27C	7-A-49		-101	11	9694	3	35	11	9694	3
470	W35S27Z 9P	7-A-50		-121	4	9980	1	13	6	9952	3
471	M49 559P(FD)	7-A-51		-367	17	9943	3	162	17	9943	3
472	M49 559P(AO)	7-A-52		-376	5	9996	3	164	5	9996	3
473	B48S2MMW(C)	7-A-53		-128	10	9831	3	14	5	8914	2
474	B56S10 1MMP(C)	7-A-54		-72	12	9616	4	31	12	9616	4
475	B40S3MMS(BM)	7-A-55		-32	12	8614	3	-17	5	8068	2
476	B40S3MMP(BM)	7-A-56		-149	3	9991	1	6	2	8855	2
477	B40S3M2S	7-A-57		-101	3	9980	4	1	2	7014	2
478	B40S3M2P	7-A-58		-89	4	9957	4	-1	3	5359	2
479	B48S5MMP	7-A-59		-107	8	9867	3	-2	3	9443	2
480	M44S19(C)	7-A-60		-80	3	9982	1	7	3	8520	2
481	T49P10W	7-B-1		-330	5	9995	3	-83	5	9995	3
482	T49P6W	7-B-2		-97	4	9962	3	-22	4	9962	3
483	T49CDA	7-B-3		-28	8	8414	3	4	6	9422	2
484	T49S2W	7-B-4		-23	4	9884	1	14	4	9353	2
485	T49S4W	7-B-5		-16	4	9849	1	18	3	9786	2
486	T49S6W	7-B-6		-67	2	9980	1	0	0	1.0000	2
487	T49S8W	7-B-7		-182	6	9982	1	57	7	9727	2
488	T49S10W	7-B-8		-304	4	9997	1	88	3	9973	2
489	T49S10 5P	7-B-9		-414	6	9996	1	108	5	9946	2
490	T49S10 9P	7-B-10		-484	7	9993	3	125	3	9986	2
491	T49P10W	7-B-11		-551	3	9999	3	-163	3	9999	3
492	T49P6W	7-B-12		-376	2	9999	1	-103	4	9960	2
493	T49CDA	7-B-13	YES	0	0	1.0000	1	0	0	1.0000	2
494	T49S2W	7-B-14		-412	4	9998	1	23	4	9712	2
495	T49S4W	7-B-15		-473	1	9999	1	65	3	9963	2
496	T49S6W	7-B-16		-544	6	9998	1	88	5	9947	2
497	T49S8W	7-B-17		-306	2	9999	1	83	2	9989	2
498	T49S10W	7-B-18		-470	2	1.0000	4	-65	2	1.0000	4
499	T49S10 5P	7-B-19		-488	5	9997	1	179	4	9988	2
500	T49S10 9P	7-B-20		-493	3	9999	3	184	3	9999	3
501	W49SM22A	7-B-21		-163	2	9997	3	132	2	9996	2
502	W49S2M3 9P	7-B-22		-528	11	9994	4	181	10	9934	2
503	W49SM20 1RL	7-B-23		-381	2	9999	3	220	1	9999	2
504	W49SM20 1RD	7-B-24		-422	4	9998	3	116	2	9999	2
505	W49SM20 1RV	7-B-25		299	4	9995	3	-94	4	9995	3
506	W49S272W	7-B-26		-465	3	9999	3	139	2	9993	2
507	W49S27Z 9P	7-B-27		-450	3	9999	4	119	2	9995	2
508	W49S270 1RL	7-B-28		-480	2	1.0000	3	174	1	9998	2
509	W49S270 1RD	7-B-29		21	6	9651	3	24	3	9889	2
510	W49S270 1RV	7-B-30		171	3	9988	1	-9	2	7807	2
511	M49P14W	7-B-31	YES	0	0	1.0000	1	0	0	1.0000	2
512	M49P13W	7-B-32		-12	6	6586	4	-6	6	6586	4
513	M49P11 1P	7-B-33		-394	6	9996	1	-211	10	9985	4
514	M49P10W	7-B-34		-356	6	9994	1	-199	5	9989	2
515	M49P6W	7-B-35		-386	28	9914	3	-120	19	9442	2
516	M49P2W	7-B-36		-438	9	9992	1	-40	7	8814	2
517	M49CDA	7-B-37		-345	5	9994	1	2	4	8478	2
518	M49S2W	7-B-38		-490	8	9994	4	38	3	9820	2
519	M49S4W	7-B-39		-479	10	9991	1	84	3	9960	2
520	M49S6W	7-B-40		-362	3	9998	3	108	3	9984	2
521	M49S8W	7-B-41		-366	5	9996	1	157	3	9993	2
522	M49S9 5P	7-B-42		-370	4	9999	4	184	2	9996	2
523	M49S10W	7-B-43		-361	4	9998	3	199	2	9998	2
524	M49S10 5P	7-B-44		-380	2	1.0000	4	212	2	1.0000	4
525	M49S10 9P	7-B-45		-374	3	9999	1	226	2	9999	2

TABLE B.3 (Continued)

CAGE NUMBER	CAGE NAME	CAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY			LATERAL LOADING ONLY				
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
526	M49S12W	7-B-46		371	4	9999	4	25	4	9997	2
527	M49S12 SP	7-B-47		364	3	9997	4	24	4	9998	2
528	M49S13W	7-B-48		417	3	9997	3	284	4	9997	2
529	M49S13 SP	7-B-49		0	1	0000	4	0	0	0000	2
530	M49S14W	7-B-50		364	4	9997	4	287	4	9998	2
531	M49S14 SP	7-B-51		368	13	9976	4	295	4	9970	2
532	B48COMMS10H	7-B-52		187	26	9941	4	0	0	9941	4
533	Z33S3 SPIC1	7-B-53		248	4	9997	4	4	4	9997	2
534	Z33S3 SPIC1	7-B-54		74	3	9997	4	8	4	9997	4
535	Z33S3 SPIC1	7-B-55		0	1	0000	4	0	0	0000	2
536	Z43P3 SPIC01	7-B-56		32	1	9997	4	4	4	9997	2
537	Z43P3 SPIC11	7-B-57		254	1	9997	4	4	4	9997	2
538	Z53P3 SPIC11	7-B-58		140	4	9997	4	67	4	9994	2
539	Z53P3 SPIC01	7-B-59		442	1	9997	4	0	0	9994	2
540	H52S181D1	7-B-60		169	1	9997	4	0	0	9994	2
541	H16 Z51SPIC11	6-1-1	YES	0	1	0000	1	0	0	0000	2
542	H49P3W	6-1-2		616	2	0000	1	0	0	0000	2
543	H49P7W	6-1-3		501	4	9997	4	2	4	9978	2
544	H49P10W	6-1-4		370	5	9997	4	103	4	9997	2
545	H49P12W	6-1-5		290	8	9976	4	227	4	9987	2
546	H49P15 SP	6-1-6		8	2	9997	4	101	4	9995	2
547	H49P18W	6-1-7	YES	0	1	0000	1	0	0	0000	2
548	H49S1A	6-1-8		690	2	0000	1	0	0	0000	2
549	H49S3A	6-1-9		603	2	0000	1	0	0	9993	2
550	H49S5W	6-1-10		546	2	0000	1	101	2	9990	2
551	H49S7W	6-1-11		522	5	9998	4	143	5	9992	2
552	H49S9W	6-1-12		447	2	0000	1	197	2	9994	4
553	H49S10W	6-1-13		377	3	9998	4	205	1	9991	2
554	H49S11W	6-1-14		328	2	9994	4	214	1	9995	2
555	H49S12W	6-1-15		284	2	9998	4	201	2	9998	2
556	H49S13W	6-1-16		196	2	9997	4	247	2	9995	2
557	H49S15 SP	6-1-17		110	3	9639	4	267	4	9997	3
558	H49S16W	6-1-18		190	10	978	4	245	44	9604	3
559	H49S18W	6-1-19	YES	0	0	0000	1	0	0	0000	2
560	H49S19W	6-1-20		366	3	9995	3	305	2	9999	2
561	H49S11 SP	6-1-21		276	2	9995	3	224	2	9998	2
562	H49S16 SP	6-1-22		33	5	9845	1	238	4	9994	2
563	T46S10 9P	6-1-23		1346	6	9995	1	99	2	9986	2
564	T46S7W	6-1-24		1140	2	9997	1	44	2	9977	2
565	T39S10 9P	6-1-25		1295	1	9999	1	75	2	9984	2
566	T39S7W	6-1-26	YES	0	0	0000	1	0	0	0000	2
567	T36S10 9P	6-1-27		165	3	9997	1	45	2	9997	2
568	T36S7W	6-1-28		149	2	9984	1	33	2	9951	2
569	M46S8W	6-1-29		1371	3	9999	1	134	2	9996	2
570	M43S4W	6-1-30		1371	2	9999	1	133	2	9997	2
571	M43S8W	6-1-31		1339	3	9998	3	60	1	9992	2
572	M39S7W	6-1-32		0	0	0000	1	97	2	9992	2
573	M39S8W	6-1-33		1331	5	9994	3	177	5	9994	3
574	M30S11W	6-1-34		219	29	9738	1	142	18	9666	2
575	M30S8W	6-1-35		1301	56	9243	1	108	63	9527	8
576	M37S11W	6-1-36		180	102	6915	1	47	128	5519	3
577	M27S8W	6-1-37		253	27	9882	3	58	27	9682	3
578	H55S13W	6-1-38	YES	0	0	0000	1	0	0	0000	2
579	H55P16 SP	6-1-39		164	4	9968	1	20	4	8965	2
580	T54P7W	6-1-40		123	4	9916	1	329	5	9994	2
581	T54P10 9P	6-1-41		187	35	9125	4	29	14	6224	2
582	T54P7W	6-1-42		129	6	9557	1	14	6	7589	2
583	T54P10 9P	6-1-43		157	17	9822	1	35	20	9616	3
584	M54S8 SP	6-1-44		1371	3	9998	1	163	4	9999	4
585	H59COP	6-1-45	YES	0	0	0000	1	0	0	0000	2
586	H57COP	6-1-46		821	7	9998	1	3	6	8857	2
587	H57S13W	6-1-47		0	0	0000	1	252	3	9997	2
588	H55COP	6-1-48		0	0	0000	1	22	23	4281	2
589	H53COP	6-1-49	YES	0	0	0000	1	0	0	0000	2
590	H53P13W	6-1-50		316	2	9999	1	253	2	9998	2
591	H53S13W	6-1-51		318	11	9990	3	244	11	9990	3
592	H51COP	6-1-52	YES	0	0	0000	1	0	0	0000	2
593	H51S14P	6-1-53		185	3	9999	3	294	3	9999	3
594	152 SCOP	6-1-54		409	11	9982	3	8	11	9982	3
595	157COP	6-1-55		0	0	0000	1	0	3	9122	2
596	F49COP	6-1-56		112	2	9965	1	1	3	9885	2
597	F52 SCOP	6-1-57		1	3	9815	1	4	4	9409	2
598	F57COP	6-1-58	YES	0	0	0000	1	0	0	0000	2
599	H54 8521P(C)	6-1-59		1375	6	9995	1	255	13	9942	2
600	H20S13 SP(D)	6-1-60		1	2	9947	1	0	2	9610	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY			LATERAL LOADING ONLY			FROM TEST
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	
601	TS1CDW	6-A-1	YES	0	0	1.0000	0	0	1.0000	2
602	TS3CDW	6-A-2		-9	3	9915	4	5	9178	2
603	TS4CDW	6-A-3	YES	-16	15	4182	10	15	4182	3
604	TS5CDW	6-A-4		1	20	3226	13	20	3226	3
605	260S10 9P	6-A-5		-1592	16	9997	409	6	9995	2
606	260S6W	6-A-6		-897	11	9997	185	21	9989	4
607	260CDW	6-A-7	YES	-1	1	3483	0	1	0424	1
608	259S10 9P	6-A-8		-1261	8	9999	328	4	9996	1
609	259CDW	6-A-9		-672	5	9995	3	2	9442	2
610	258S10 9P	6-A-10		-994	11	9997	267	4	9995	2
611	258S6W	6-A-11		-611	5	9998	112	5	9949	2
612	258CDW	6-A-12		-639	14	9988	5	23	9936	3
613	257CDW	6-A-13		-630	5	9999	-1	5	9163	2
614	257S10 9P	6-A-14		-688	7	9997	184	5	9986	2
615	256 2P10 9P	6-A-15		-717	8	9997	-204	13	9995	3
616	256 2CDW	6-A-16		-656	7	9998	-122	5	9964	2
617	256 2P6W	6-A-17		-640	5	9999	-6	2	7432	1
618	256 256W	6-A-18		-675	5	9999	131	2	4993	1
619	256 2S10 9P	6-A-19		-829	4	1.0000	201	36	9943	3
620	255CDW	6-A-20		-592	7	9997	7	6	6397	1
621	255S10 9P	6-A-21		-769	4	9999	220	4	9999	3
622	254CDW	6-A-22		-589	4	9999	2	3	9650	1
623	255S6W	6-A-23		-629	3	9999	140	4	9589	2
624	254S10 9P	6-A-24		-727	6	9998	220	3	9997	2
625	253CDW	6-A-25		-553	5	9998	-1	3	8634	2
626	251CDW	6-A-26	YES	0	0	1.0000	0	0	1.0000	2
627	MS1CDW	6-A-27	YES	0	0	1.0000	0	0	1.0000	2
628	MS1S11 1P	6-A-28		-393	2	9999	230	3	9997	1
629	149CDP	6-A-29		411	4	9998	-3	3	8406	2
630	MS3CDW	6-A-30	YES	0	0	1.0000	0	0	1.0000	2
631	MS3S11 1P	6-A-31		-355	2	9999	231	2	9998	2
632	MS3S14P	6-A-32		-429	3	9999	307	3	9999	3
633	MS3P11 1P	6-A-33		-396	5	9997	-224	5	9989	1
634	MS3P14	6-A-34		0	0	1.0000	-294	8	9981	2
635	MS5CDW	6-A-35		-403	26	9895	-20	26	9895	4
636	MS5S11 1P	6-A-36		344	22	9913	-237	17	9884	2
637	MS5S14P	6-A-37		-463	12	9993	327	12	9993	4
638	MS7CDW	6-A-38		-433	15	9973	0	0	1.0000	2
639	MS7S11 1P	6-A-39		-466	3	9999	331	5	9995	2
640	MS7S14P	6-A-40		-326	3	9998	230	5	9992	2
641	MS7P14	6-A-41	YES	0	0	1.0000	0	0	1.0000	2
642	MS7P11 1P	6-A-42		-499	4	9999	-326	5	9995	2
643	MS9CDW	6-A-43	YES	0	0	1.0000	0	0	1.0000	2
644	MS9S14P	6-A-44		-441	3	9999	315	4	9997	2
645	MS9S11 1P	6-A-45		-342	4	9998	227	4	9998	3
646	W55 9SM20 1RV	6-A-46		-158	22	9766	170	22	9766	3
647	W55 9SM20 1RD	6-A-47		113	19	9935	259	18	9898	2
648	W55 9SM20 1RL	6-A-48		-305	21	9943	167	21	9943	4
649	W55 9S720 1RV	6-A-49		204	7	9965	-88	7	9966	3
650	W55 9S720 1RD	6-A-50		-266	29	9707	11	5	7711	2
651	W55 9S720 1RL	6-A-51		-774	13	9991	245	13	9991	3
652	W55 9S2M3 9RV	6-A-52		202	15	9911	-60	7	9609	2
653	W55 9S2M3 9RD	6-A-53		-324	10	9984	103	5	9953	2
654	W55 9S2M3 9RL	6-A-54		-792	6	9999	234	5	9989	2
655	W56 1S2M3 9RL	6-A-55		-4	19	0900	-1	5	1850	2
656	W56 1S2M3 9RD	6-A-56		14	18	4191	9	8	7387	2
657	W56 1S2M3 9RV	6-A-57		-98	29	8984	-3	18	5576	2
658	W58 3P20P	6-A-58		203	4	9986	-297	6	9989	2
659	RES/STDR	6-A-59		-3	4	4787	1	6	4034	3
660	WS2S2M2(D)	6-A-60		-2	5	9549	-4	5	7993	2
661	B56CDTTP	6-B-1	YES	0	0	1.0000	0	0	1.0000	2
662	B56CDTTS	6-B-2		-444	8	9994	-18	6	7103	2
663	B56P4TTP	6-B-3		-31	17	8803	-72	15	9231	2
664	B56P4TTS	6-B-4		-389	13	9978	-105	10	9820	2
665	B56P8TTP	6-B-5		-193	49	8991	-151	39	8765	2
666	B56P8TTS	6-B-6		-174	11	9936	-30	5	9026	2
667	B56CDZTP	6-B-7	YES	0	1	1492	0	1	1492	3
668	B56CDZTS	6-B-8		-90	7	9928	-1	7	6760	2
669	B56P4ZTP	6-B-9		-184	26	9448	-121	21	9409	2
670	B56P4ZTS	6-B-10		-17	8	9653	-26	4	8908	2
671	B56P8ZTP	6-B-11		-143	31	9164	-121	31	8777	2
672	B56P8ZTS	6-B-12		-68	15	9721	-68	10	9569	2
673	B56CDMZP	6-B-13		-133	27	9051	-35	5	9022	2
674	B56CDMZS	6-B-14		-72	21	8140	-29	3	9683	2
675	B56CDMFP	6-B-15		-42	18	8878	-29	14	8522	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
676	B56CDMFS	6-B-16		-19	9	9954	1	-5	4	3202	2
677	B56PMFP	6-B-17		-28	8	9562	3	-24	2	8454	2
678	B56PMFS	6-B-18		20	32	8134	4	-89	18	8903	2
679	B56COF:P	6-B-19		-45	13	9206	1	-69	45	6708	3
680	B56COFIS	6-B-20		-87	5	9958	1	-6	3	9092	2
681	B56P6F:P	6-B-21		39	14	837	3	-27	4	9026	2
682	B56P6F:IS	6-B-22		34	6	9131	3	-17	4	9118	2
683	B56S4T:P	6-B-23		-33	31	9308	1	41	14	9260	2
684	B56S4T:IS	6-B-24		-31	11	9511	1	-76	17	9370	2
685	B16P211W:IC	6-B-25		-16	15	9917	3	11	4	9386	2
686	B56S4T:IS	6-B-26	YES	C	0	1 0000	1	C	0	1 0000	2
687	B56S4Z:T:P	6-B-27		-151	29	9494	4	35	8	9551	2
688	B56S4Z:IS	6-B-28		-140	14	9882	1	50	15	9086	2
689	B56S8Z:T:P	6-B-29		-70	28	7197	3	64	9	9721	2
690	B56S8Z:IS	6-B-30		-38	7	9871	4	33	2	9856	2
691	B56S8MFP	6-B-31	YES	-56	4	9917	1	C	0	1 0000	2
692	B56S8MFS	6-B-32		57	34	7110	4	37	5	945	2
693	B56S8F:P	6-B-33		31	16	6007	1	4	3	9820	2
694	B56S8F:IS	6-B-34		46	5	9496	1	5	4	9376	2
695	B56CDHHRH	6-B-35		-151	8	9968	1	6	10	6560	2
696	B56CDHHRD	6-B-36		-139	10	9978	1	-17	5	7779	2
697	B56CDHHRV	6-B-37		80	13	9452	4	10	11	7044	2
698	B56P71:R:V	6-B-38		73	22	7578	1	C	0	1 0000	2
699	B56P71:R:D	6-B-39		71	8	9538	1	0	9	2038	2
700	B56P71:R:H	6-B-40		105	10	9772	3	-27	8	7843	2
701	B56P11:R:V	6-B-41		13	12	7687	3	11	6	8716	2
702	B56P11:R:D	6-B-42		-375	9	9989	4	65	4	9911	2
703	B56P11:R:H	6-B-43		30	6	9876	1	3	7	9126	2
704	B56P13:R:V	6-B-44		13	8	4229	1	31	2	9921	2
705	B56P13:R:D	6-B-45		-150	7	9952	1	63	6	9805	2
706	B56P13:R:H	6-B-46		7	4	9755	1	-58	14	8200	2
707	B56S71:R:H	6-B-47		64	6	967	1	0	4	7311	2
708	B56S71:R:D	6-B-48		69	19	8773	3	-13	19	8773	3
709	B56S71:R:V	6-B-49		45	17	6194	1	9	9	7763	2
710	B56S11:R:H	6-B-50		206	7	9962	4	39	7	9963	4
711	B56S11:R:D	6-B-51		400	17	9960	3	56	10	9531	2
712	B56S11:R:V	6-B-52		-63	7	9866	1	-25	2	9295	2
713	B56S13:R:H	6-B-53		-9	4	9563	1	104	19	8541	1
714	B56S13:R:D	6-B-54		8	8	8421	1	-29	4	9384	2
715	B56S13:R:V	6-B-55		-192	10	9949	1	-59	8	9465	2
716	M36 15AP:IC	6-B-56		48	4	9667	1	2	5	8318	2
717	M36S4P:IC	6-B-57		812	6	9998	1	3	5	9940	2
718	M32 15AP:IC	6-B-58		-758	8	9987	3	59	6	9983	2
719	M32 1P SP:IC	6-B-59		-269	4	9996	1	7	7	9285	2
720	RESISTOR	6-B-60		103	6	9884	1	25	8	8973	2
721	APMM36C1PA	5-B-1		-199	22	9794	1	160	51	9555	4
722	APMM36C2PA	5-B-2		-896	17	9990	4	-17	11	8261	2
723	APMM36C3PA	5-B-3		-985	19	9992	1	-279	14	9911	2
724	APMM36C4PA	5-B-4	YES	-401	4	9998	4	-146	4	9998	4
725	APMM36C5PA	5-B-5		-427	18	9952	4	-140	16	9459	2
726	APMM36P3PA8	5-B-6		-401	3	9999	3	-180	2	9995	2
727	APMM36C1PF	5-B-7		-366	5	9996	4	-206	5	9996	4
728	APMM36C2PF	5-B-8		-407	4	9998	1	-251	5	9992	2
729	APMM36C3PF	5-B-9		-724	6	9998	4	-510	6	9998	4
730	APMM36C4PF	5-B-10		-547	8	9999	3	-569	5	9998	2
731	APMM36C5PF	5-B-11		-20	5	9996	3	-293	2	9998	2
732	APMM36P1PFO 5	5-B-12		-438	3	1 0000	3	251	3	1 0000	3
733	APMM36P3PFO 5	5-B-13		-469	3	1 0000	3	-270	3	1 0000	3
734	APMM36P5PFO 5	5-B-14		-617	3	1 0000	3	-357	3	1 0000	3
735	APMM36RLPF	5-B-15		-682	4	1 0000	3	-838	4	1 0000	3
736	APMM36RDPF	5-B-16		-291	3	9999	3	-285	3	9999	3
737	APMM36RMPF	5-B-17		-326	12	9968	1	7	14	9998	3
738	APMM36P3PFO	5-B-18		-435	11	9992	3	-230	11	9992	3
739	APMM36P3PFO	5-B-19		-431	6	9998	3	-216	5	9985	2
740	M36 3P11 1P	5-B-20		-392	4	9998	3	-199	4	9990	2
741	M36 3P11 1P	5-B-21		-412	8	9995	3	178	7	9964	2
742	M36 3P12P	5-B-22		-278	30	9738	1	-185	44	9550	4
743	M36 6P11 7P	5-B-23		-204	3	9996	1	199	1	9999	2
744	APM233C15	5-B-24		23	5	9990	1	-16	2	9070	2
745	APM233C308	5-B-25		254	3	9997	3	33	3	9897	2
746	APM233C300(LR)	5-B-26		2	2	9051	1	-2	2	6261	3
747	APM233C293	5-B-27		-704	7	9998	3	-124	3	9980	2
748	APM233RYMM	5-B-28		-4	2	9944	4	26	1	9948	2
749	APM233RDMM	5-B-29	YES	0	1	0828	3	0	0	1 0000	2
750	APM233RLMM	5-B-30		-225	4	9993	1	-108	4	9962	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
751	APM233RLMA	5'-31	YES	0	0	9982	4	0	0	1.0000	2
752	APM233RDMA	5'-32		-568	3	9999	4	-144	2	9997	2
753	APM233RVMA	5'-33		-44	8	9369	3	36	6	9344	2
754	AP2238C2PA	5'-34		-1664	7	1.0000	1	-49	8	9631	2
755	AP2238C3PA	5'-35	YES	0	0	1.0000	1	0	0	1.0000	2
756	AP2238C4PA	5'-36	YES	0	0	1.0000	1	0	0	1.0000	2
757	AP2238P3PA 5	5'-37		-653	5	9959	3	-78	3	9951	2
758	AP2238P3PA2	5'-38		-485	7	9496	3	-98	7	9896	2
759	AP2238P3PA4	5'-39		411	5	9997	3	-102	2	9990	2
760	AP2238RHPA	5'-40		11	5	9967	1	70	2	9980	2
761	AP2238RDPA	5'-41	YES	0	0	1.0000	1	0	0	1.0000	2
762	AP2238RLPA	5'-42		-1155	5	1.0000	1	-121	2	9996	2
763	APM239C115	5'-43		-639	7	9991	3	-58	5	9751	2
764	APM239C308	5'-44		-615	5	9998	3	-62	4	9829	2
765	APM239C300	5'-45		-592	4	9999	4	-72	4	9995	4
766	APM239C293	5'-46		-692	5	9999	3	-67	6	9686	2
767	APM242C115	5'-47		-639	6	9998	1	-67	3	9570	2
768	APM242C308	5'-48		-633	6	9997	4	81	3	9570	2
769	APM242C300(R)	5'-49		26	20	6427	3	25	20	6427	3
770	APM242C293	5'-50		-624	4	9995	3	-123	4	9595	2
771	B16P3MMRH	5'-51		88	10	9644	4	39	7	9485	2
772	B16P3MMRD	5'-52		119	17	9628	2	12	15	6018	2
773	B16P3MMRV	5'-53		46	75	5882	3	11	54	3303	2
774	H23P17MFR(L)	5'-54		-149	31	9333	1	-143	30	8766	2
775	H23 SP16MFP(LHSU)15	5'-55		478	6	9996	1	-57	5	9752	2
776	H23 SP16MFP(LHS)15	5'-56		-572	7	9997	3	-58	5	4669	2
777	B24P10 SMMRH	5'-57		-6	4	9674	1	19	3	9586	2
778	B24P10 SMMRD	5'-58		144	7	9914	1	16	4	9701	2
779	B24P10 SMMRV	5'-59		-24	13	9694	1	15	6	7100	2
780	H36P2M2(D)	5'-60		4	3	9825	1	1	2	9278	2
781	APMM44C1PA	5'-A-1	YES	0	0	1.0000	1	0	0	1.0000	2
782	APMM44C2PA	5'-A-2		-1050	14	9996	1	-250	17	9995	3
783	APMM44C3PA	5'-A-3		-1054	7	9999	1	-347	8	9988	2
784	APMM44C4PA	5'-A-4	YES	-567	17	9990	4	327	17	9990	4
785	APMM44C5PA	5'-A-5		-481	2	9999	1	-151	4	9990	2
786	APMM44P3PA4	5'-A-6		-464	8	9996	1	-226	8	9996	3
787	APMM44C1PF	5'-A-7		-431	4	9998	1	-248	5	9992	2
788	APMM44C2PF	5'-A-8		-463	2	1.0000	1	-273	4	9999	4
789	APMM44C3PF	5'-A-9		-774	5	9999	4	-525	5	9999	3
790	APMM44C4PF	5'-A-10		-630	4	9999	1	-599	8	9999	3
791	APMM44C5PF	5'-A-11		7	4	9554	1	-257	5	9994	3
792	APMM44P1PFG 5	5'-A-12		-468	3	9999	1	-271	4	9999	3
793	APMM44P3PFO 5	5'-A-13		-505	4	9999	1	-292	5	9999	3
794	APMM44P5PFO 5	5'-A-14		-654	2	1.0000	1	-394	3	9996	2
795	APMM44R1LPP	5'-A-15		-722	2	1.0000	1	-481	4	1.0000	2
796	APMM44RDPF	5'-A-16		-262	2	9999	1	-277	4	9998	3
797	APMM44RHPP	5'-A-17		0	0	1.0000	1	6	17	9742	3
798	APMM44P3PF2	5'-A-18		-483	14	9990	3	-245	14	9990	3
799	APMM44P3PF4	5'-A-19		-476	9	9996	3	-235	9	9996	2
800	H43 3P11 1P	5'-A-20		-465	11	9993	3	-217	11	9993	3
801	H43 3P11 5P	5'-A-21		-429	7	9997	3	-229	6	9981	2
802	H43 3P12 0P	5'-A-22		-421	12	9991	3	-244	12	9991	3
803	H41 4P11 7P	5'-A-23		-516	4	9999	3	-219	4	9993	2
804	APM246C292	5'-A-24		-696	6	9998	3	-127	6	9998	3
805	APM246C285	5'-A-25		0	0	1.0000	1	-109	10	9857	2
806	APM246C277	5'-A-26		-536	5	9998	4	-166	7	9996	2
807	APM246C270	5'-A-27		-455	8	9991	4	-204	6	9974	2
808	AP2246C3PA	5'-A-28		-1492	5	1.0000	1	-183	3	9992	2
809	AP2246C3PF	5'-A-29	YES	0	0	1.0000	3	0	0	1.0000	2
810	AP2252C3SF	5'-A-30		-702	6	9998	3	336	6	9993	2
811	AS2252C35A	5'-A-31	YES	0	0	2580	3	0	0	2580	3
812	APM262C101	5'-A-22		-491	6	9998	3	-176	5	9981	2
813	APM262C094	5'-A-33		-457	14	9973	4	-157	6	9969	2
814	APM262C086(R)	5'-A-34		25	35	2220	4	2	13	0748	2
815	APM262C078	5'-A-35	YES	0	0	1.0000	1	0	0	1.0000	2
816	APM262R.ZA	5'-A-36	YES	0	0	1.0000	1	0	0	1.0000	2
817	APM262RDZA	5'-A-37		-23	27	4828	4	-47	24	5145	2
818	APM262RNZA	5'-A-38		-18	22	5192	4	-60	18	5696	2
819	ASMM66C1SF	5'-A-39		-729	6	9999	1	67	4	9934	2
820	ASMM66C2SF	5'-A-40		-941	8	9999	4	163	4	9986	2
821	ASMM66C3SF	5'-A-41		-988	7	9999	1	219	6	9982	2
822	ASMM66C4SF	5'-A-42		-599	9	9996	4	165	8	9996	4
823	ASMM66C5SF	5'-A-43		-569	5	9999	1	154	6	9977	2
824	M59 SP SP(AC)	5'-A-44		-471	3	9999	1	-11	4	7658	2
825	M59 SP SP(PCD)	5'-A-45		-267	2	9999	1	-9	2	7925	2



TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED COL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
826	M59 9P SPIC(C)	5-A-46		322	3	9999	1	-9	3	7101	2
827	M4855W(BMSU)	5-A-47		36	28	9031	3	85	28	9031	3
828	B56P8MMS(BM)	5-A-48	YES	-68	11	9626	4	31	7	9327	2
829	M4855W(BMSL)	5-A-49	YES	0	0	1 0000	1	0	0	1 0000	2
830	B56P8M2S(BM)	5-A-50		-80	30	8808	4	-115	24	9007	2
831	B4059MMP(C)	5-A-51		575	5	9999	3	64	5	9999	3
832	B64P8MMS(BM)	5-A-52		51	11	8638	1	5	10	8938	2
833	H23 9S19S	5-A-53		25	10	9781	1	-30	4	8755	2
834	B2459 SMRRV(C)	5-A-54		82	6	9935	1	-34	3	9742	2
835	B2459 SMRRD(C)	5-A-55		-85	6	9949	1	-28	5	8890	2
836	B2459 SMRRH(C)	5-A-56		12	6	8955	1	-35	4	9668	2
837	H23 9S16P(HSU)	5-A-57		251	4	9997	1	80	7	9857	2
838	H23 9S16P(HSL)	5-A-58		-613	9	9996	1	30	7	9373	2
839	H23P17MFP(L)	5-A-59		134	3	9990	1	-97	3	9880	2
840	H44P2M2(D)	5-A-60		-1	6	9536	1	4	4	7153	2
841	H23 9S4 SP(HSO)	5-B-1		121	5	9681	1	-111	4	9961	2
842	H23 9S4 SP(HSI)	5-B-2		13	19	9739	3	129	19	9739	3
843	H24 1P8 SP(HSL)	5-B-3		289	76	9004	3	66	47	5343	2
844	H24 1P8 SP(HSL)	5-B-4	YES	-513	3	9999	4	-167	2	9994	2
845	H24 1P3 SP(C)	5-B-5		19	4	9740	1	36	4	9857	2
846	H29 3P7 BRH	5-B-6		36	6	8995	1	40	6	9605	2
847	H29 3P7 BRD	5-B-7		-885	3	1 0000	4	192	3	9978	2
848	H29 3P7 BRU	5-B-8		161	4	9990	1	-183	5	9981	2
849	H31 9P14S(C)	5-B-9		-47	4	9926	1	-134	5	9976	4
850	B32P8F(IRH(C)	5-B-10		56	5	9697	1	22	6	9643	2
851	B32P8F(IRU(C)	5-B-11		-60	3	9982	1	-16	7	8458	2
852	B32P8F(IRV(C)	5-B-12		-155	4	9984	3	8	4	9984	3
853	H31 8P11W	5-B-13		-247	5	9993	3	-74	4	9919	2
854	H31 8P10 SP	5-B-14		-293	3	9996	3	-149	3	9992	2
855	H37P20P	5-B-15		251	1	9997	1	-225	4	9991	2
856	H37S20P(CU)	5-B-16		-221	3	9997	1	218	4	9996	3
857	H37S20P(CU)	5-B-17		-184	1	9984	3	216	7	9984	3
858	H37S19P(C)	5-B-18		-140	3	9996	1	230	9	9977	3
859	H37 4S20P(C)	5-B-19		243	7	9988	3	228	7	9988	3
860	B4058 SMFRV(BB)	5-B-20		38	8	8588	1	27	11	8484	2
861	B4058 SMFRD(BB)	5-B-21		-124	8	9935	1	83	11	8862	3
862	B4058 SMFRH(BB)	5-B-22		186	8	9949	3	63	8	9949	3
863	H44S20P(L)	5-B-23		-78	10	9945	1	273	12	9955	2
864	H45 4S21P(C)	5-B-24		387	4	9998	1	308	3	9998	2
865	H45 4S21P(C)	5-B-25		-388	5	9997	1	302	6	9996	3
866	H41P20P(C)	5-B-26		12	6	6467	1	79	6	9925	3
867	H47 9P9P(C)	5-B-27		476	5	9997	1	-186	6	9995	3
868	B48P8 2MRRV(BB)	5-B-28		-75	12	9369	4	-5	8	1614	2
869	B48P8 2MRRD(BB)	5-B-29	YES	0	0	1 0000	3	0	0	1 0000	2
870	B48P8 2MRRH(BB)	5-B-30		52	10	8997	1	-45	7	8941	2
871	H42 6P20P(C)	5-B-31	YES	0	1	2002	3	0	0	2681	2
872	B48P12MMP(C)	5-B-32		50	10	9143	4	13	7	6702	2
873	B48P12MMP(C)	5-B-33		98	12	9607	4	23	2	9887	2
874	B48C0P(C)	5-B-34		67	14	8939	4	-3	7	5132	2
875	H55 9P2P(C)	5-B-35	YES	0	0	1 0000	1	0	0	1 0000	2
876	H48 5P10P(C)	5-B-36	YES	0	0	1 0000	1	0	0	1 0000	2
877	H51P14P(CU)	5-B-37		149	3	9982	1	-287	4	9996	2
878	H51P14P(CU)	5-B-38		366	4	9997	1	-244	3	9997	2
879	H49P19P(C)	5-B-39		-221	4	9996	1	-306	3	9997	2
880	H51P18P(C)	5-B-40		-190	4	9993	1	-273	3	9997	2
881	M56P8W(BMSU)	5-B-41		-165	41	9259	1	-61	37	5484	2
882	M56P8W(BMSLO)	5-B-42	YES	-88	39	7321	4	-80	34	8898	2
883	M56P8W(BMSU)	5-B-43		-158	19	9892	1	-67	23	9532	3
884	M56P8W(BMSLO)	5-B-44	YES	0	0	1 0000	1	0	0	1 0000	2
885	RES1570R	5-B-45		-2	4	6499	1	4	5	4923	2
886	M4053W(BMSU)	5-B-46		-294	34	9665	4	-48	5	9706	2
887	B56P8MMP(BM)	5-B-47		-82	36	8720	4	-133	21	9270	2
888	M4855W(BMSU)	5-B-48	YES	0	0	1 0000	1	0	0	1 0000	2
889	B56P8M2P(BM)	5-B-49		-35	17	8071	4	-53	12	9127	2
890	H31 8P10W	5-B-50		293	8	9979	4	-159	2	9995	2
891	H16S12P(CU)	5-B-51		-61	5	9908	3	56	3	9938	2
892	H16S12P(CM)	5-B-52		-60	5	9948	1	57	5	9888	3
893	H16S12P(CU)	5-B-53		114	14	9610	4	51	10	9529	2
894	H14S12P(C)	5-B-54		6	3	9862	1	-13	4	7487	2
895	H10 6S4S(C)	5-B-55		-69	3	9938	1	33	3	9908	2
896	H12P14P(C)	5-B-56		-33	3	9963	1	-19	3	8719	2
897	H12P14P(C)	5-B-57		-3	4	9842	1	-18	3	9294	2
898	B16P8P(C)	5-B-58		138	4	9964	1	-5	5	9959	3
899	H23S20P(C)	5-B-59		157	3	9994	1	102	1	9997	2
900	RESISTOR	5-B-60		2	3	2587	4	1	3	2587	4

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
901	B64C0ZZP	4--1		-87	15	9818	4	-9	3	8389	2
902	B64C0ZZS	4--2		-74	11	9698	1	-10	1	9317	2
903	B64P4ZZP	4--3		0	0	1.0000	1	-38	4	9681	2
904	B64P4ZZS	4--4		-219	18	9867	1	-52	3	9906	2
905	B64P8ZZP	4--5		-101	9	9906	3	-52	4	9794	2
906	B64P8ZZS	4--6		-105	19	9694	3	-39	9	8799	2
907	B64COMZP	4--7		-120	25	9332	1	-21	2	9070	2
908	B64COMZS	4--8		-42	4	9930	1	8	3	9189	2
909	B64P4MZP	4--9		-104	19	9573	3	-33	4	9647	2
910	B64P4MZS	4--10		-136	17	9757	3	-50	5	9752	2
911	B64P8MZP	4--11		-7	20	7653	2	-31	5	9344	2
912	B64P8MZS	4--12		-140	6	9864	1	-62	4	9877	2
913	B64COMFP	4--13		-27	13	8369	1	-6	2	7032	2
914	B64COMFS	4--14		-62	15	8835	4	-8	5	7567	2
915	B64P2MFP	4--15		-41	12	8180	4	-10	2	9106	2
916	B64P2MFS	4--16	YES	0	1	1225	4	0	1	2136	2
917	B64CDF1P	4--17		-68	10	9696	1	-6	1	9427	2
918	B64CDF1S	4--18		-59	5	9889	1	2	2	6058	2
919	B64P6F1P	4--19		38	13	6794	1	-15	6	6098	2
920	B64P6F1S	4--20		10	10	3456	1	-41	3	9874	2
921	B64S4ZZP	4--21		-98	16	9541	1	5	3	9338	2
922	B64S4ZZS	4--22		-115	5	9968	1	28	3	9860	2
923	B64S8ZZP	4--23		-125	9	9910	1	43	5	9841	2
924	B64S8ZZS	4--24		-36	14	9207	4	16	7	8089	2
925	B64S4MZP	4--25		-114	18	9591	4	10	5	8716	2
926	B64S4MZS	4--26		-202	22	9692	3	20	3	9678	2
927	B64S8MZP	4--27		-115	22	9482	4	24	4	9693	2
928	B64S8MZS	4--28		-150	5	9863	4	39	4	9887	2
929	B64S4MFP	4--29		-131	18	9539	3	9	2	9619	2
930	B64S4MFS	4--30		-166	22	8974	3	12	3	9629	2
931	B64S6F1P	4--31		-82	18	8971	3	9	2	9166	2
932	B64S6F1S	4--32		-104	16	9383	3	25	3	9850	2
933	B64CDHHRH	4--33		7	5	9361	1	-5	3	6275	2
934	B64CDHHRD	4--34		3	6	9500	1	8	2	9375	2
935	B64CDHHRV	4--35		12	6	7730	3	5	3	8972	2
936	B64P711RV	4--36		74	12	9361	3	-27	4	9227	2
937	B64P711RD	4--37	YES	7	3	7184	3	-1	3	7184	3
938	B64P711RH	4--38		140	14	9779	1	29	3	9823	2
939	B64P11F1RV	4--39		-457	10	9990	4	91	2	9990	2
940	B64P11F1RD	4--40		67	10	9437	2	-32	2	9806	2
941	B64P11F1RH	4--41		-168	37	8250	1	-45	14	8693	2
942	B64P13F1RV	4--42		-18	8	9878	3	97	4	9943	2
943	B64P13F1RD	4--43		-240	22	9792	3	116	16	9598	2
944	B64P13F1RH	4--44		19	6	9229	1	-3	8	1892	2
945	B64S711RH	4--45		59	7	9788	4	8	4	7627	2
946	B64S711RD	4--46		56	11	9370	4	9	6	5289	2
947	B64S711RV	4--47		-1	9	8784	1	-14	7	6023	2
948	B64S711F1RH	4--48		65	4	9868	1	111	14	9662	2
949	B64S11F1RD	4--49		-424	16	9972	1	-52	5	9788	2
950	B64S11F1RV	4--50		-34	10	9463	1	-62	7	9747	2
951	B64S1311RH	4--51	YES	0	0	1.0000	1	0	0	1.0000	2
952	B64S1311RD	4--52		-225	21	9800	4	-11	12	3841	2
953	B64S1311RV	4--53		-27	6	9940	4	-5	4	7534	2
954	M61 2520P(CU)	4--54		-457	8	9994	3	330	4	9997	2
955	M5958P(C)	4--55		-421	4	9999	4	202	2	9997	2
956	APM246C112	4--56		-439	6	9997	3	-82	3	9967	2
957	APM246C105	4--57		-411	8	9988	4	-106	8	9880	2
958	APM246C97	4--58	YES	-486	14	9985	3	-142	14	9985	3
959	APM246C90	4--59		-179	9	9949	4	-116	4	9964	2
960	M8DP19(D)	4--60		-12	6	6584	4	-1	2	9547	2
961	M61P14P(C)	4-A-1	YES	0	0	1.0000	1	0	0	1.0000	2
962	M61P11 1P	4-A-2		-449	5	9998	1	-268	2	9999	2
963	M61P10W	4-A-3		-408	3	9999	1	-220	3	9996	2
964	M61P6W	4-A-4		-394	6	9986	1	-127	2	9992	2
965	M61P2W	4-A-5		-387	3	9999	1	-35	2	9881	2
966	M61C0W	4-A-6	YES	0	0	1.0000	1	0	0	1.0000	2
967	M61S2W	4-A-7		-372	3	9999	1	29	3	9858	2
968	M61S4W	4-A-8		-310	4	9997	1	62	3	9961	2
969	M61S6W	4-A-9		-422	3	9999	1	127	12	9738	2
970	M61S8W	4-A-10		-365	4	9997	3	150	3	9993	2
971	M61S9 5P	4-A-11		-386	3	9998	3	185	2	9996	2
972	M61S10W	4-A-12		-366	4	9998	1	205	3	9994	2
973	M61S10 5P	4-A-13		-349	9	9993	4	217	8	9962	2
974	M61S11 1P	4-A-14		-395	6	9994	3	289	6	9994	3
975	M61S12W	4-A-15		-420	5	9997	1	268	7	9986	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
976	M61S12 SP	4-A-16	YES	0	0	1113	3	0	0	1149	2
977	M61S13W	4-A-17		-451	12	9964	1	283	11	9962	2
978	M61S14P	4-A-18		-436	9	9995	4	299	9	9995	4
979	Z61COW	4-A-19		-849	9	9997	4	5	1	9614	2
980	Z61S2W	4-A-20		-445	3	9999	1	23	2	9999	2
981	Z61S4W	4-A-21		-523	4	9999	1	59	2	9983	2
982	Z61S6W	4-A-22		-1048	14	9995	3	177	3	9994	2
983	Z61S8W	4-A-23		-859	6	9999	3	182	5	9981	2
984	Z61S9W	4-A-24		-892	6	9999	3	210	3	9995	2
985	Z61S10W	4-A-25		-1169	19	9995	4	292	3	9997	2
986	Z61S10 SP	4-A-26		-1398	37	9947	4	353	3	9996	2
987	Z61S10 SP	4-A-27		-1345	25	9994	4	345	3	9998	2
988	Z61P6W	4-A-28		-1080	29	9985	4	120	8	9888	2
989	Z61P10W	4-A-29		-1185	22	9993	4	82	6	9918	2
990	M61S2M3 SP	4-A-30		-1425	24	9995	4	361	3	9998	2
991	M61SM20.1P	4-A-31		-928	21	9992	4	309	3	9998	2
992	M561S21P	4-A-32		-984	21	9993	4	357	8	9986	2
993	M61S3W	4-A-33		679	4	9999	1	60	7	9735	2
994	M61P3W	4-A-34		666	4	9999	1	-70	4	9903	2
995	M61S5W	4-A-35		601	7	9997	4	104	4	9970	2
996	M61S7W	4-A-36		519	2	9999	1	147	2	9997	2
997	M61P7W	4-A-37	YES	69	1	9995	3	28	1	9996	3
998	M61S9W	4-A-38		-184	3	9999	4	310	3	9999	4
999	M61S11W	4-A-39		436	3	9999	1	-224	2	9998	2
1000	M61P11W	4-A-40		501	3	9999	4	-150	2	9995	2
1001	M61S13W	4-A-41		346	11	9991	3	255	6	9886	2
1002	M61S14W	4-A-42		270	4	9999	3	281	2	9999	2
1003	M61P14W	4-A-43		269	7	9982	1	-272	4	9994	2
1004	M61S15W	4-A-44		149	3	9985	1	292	2	9998	2
1005	M61S15 SP	4-A-45		-21	4	9867	1	272	4	9995	2
1006	M61P16 SP	4-A-46		0	0	1 0000	1	-267	5	9993	2
1007	M61S18W	4-A-47		884	453	6173	4	-856	407	5428	2
1008	M61S20WL	4-A-48		-376	2	9999	1	318	5	9997	3
1009	M61P20WL	4-A-49		-400	3	9999	4	-327	3	9998	2
1010	M57 8P9S(C)	4-A-50		124	12	9945	4	-120	8	9893	2
1011	M56P811P(C)	4-A-51		101	14	9272	1	-34	8	8365	2
1012	ASM276C098	4-A-52		-871	10	9992	4	137	10	9992	4
1013	ASM276C105	4-A-53		-940	9	9994	4	114	4	9972	2
1014	ASM276C112	4-A-54		-615	7	9996	3	93	2	9991	2
1015	ASMM66C55A	4-A-55		-660	5	9999	1	476	8	9997	3
1016	ASMM66C45A	4-A-56		-771	5	9999	1	507	6	9999	3
1017	ASMM66C35A	4-A-57		-768	6	9999	1	464	4	9998	2
1018	ASMM66C15A	4-A-58	YES	104	878	2440	4	-376	673	0265	2
1019	ASMM66C15G	4-A-59		-524	5	9998	1	290	2	9999	2
1020	M68S2M2(D)	4-A-60		0	4	9664	3	1	4	7927	2
1021	B72C0HHRM	4-B-1		-55	8	9537	3	4	3	8420	2
1022	B72C0HHRD	4-B-2		-61	6	9884	1	9	2	9683	2
1023	B72C0HHRV	4-B-3		-105	3	9987	1	5	2	9712	2
1024	B72P12 SFIRV	4-B-4		140	3	9989	1	-92	8	9803	2
1025	B72P12 SFIRD	4-B-5		-147	5	9981	1	43	3	9888	2
1026	B72P12 SFIRH	4-B-6		92	5	9895	1	-24	3	9668	2
1027	B72S12 SF14H	4-B-7		106	8	9799	1	91	7	9854	2
1028	B72S12 SF14D	4-B-8		-236	6	9968	1	-107	6	9905	2
1029	B72S12 SF14V	4-B-9		-33	3	9931	1	-43	6	9846	2
1030	Z62 SCOW	4-B-10		-688	6	9996	3	2	1	2966	2
1031	Z65COW	4-B-11		-613	5	9996	4	2	1	9611	2
1032	Z67COW	4-B-12		-627	4	9999	1	2	2	7342	2
1033	Z69COW	4-B-13		-644	5	9999	4	-1	2	9374	2
1034	Z71COW	4-B-14		-610	6	9998	4	0	2	9038	2
1035	Z63S6W	4-B-15		-714	4	9999	1	124	2	9997	2
1036	Z63S11W	4-B-16	YES	1	2	2998	1	0	1	4192	2
1037	M63COW	4-B-17		0	0	1 0000	1	1	5	9996	4
1038	M63S11 1P	4-B-18		-453	3	9999	4	257	2	9998	2
1039	M63S14P	4-B-19		-505	4	9999	4	321	3	9998	2
1040	M65COW	4-B-20		-406	4	9997	4	5	4	4582	2
1041	M65S11 1P	4-B-21		-450	9	9991	3	268	3	9998	2
1042	M65S14P	4-B-22		-535	8	9996	4	333	6	9992	2
1043	M65P14P	4-B-23		-509	4	9998	1	-316	5	9995	2
1044	M65P11 1P	4-B-24		-461	2	9999	4	-272	2	9999	2
1045	M67COW	4-B-25	YES	0	0	1 0000	1	0	0	1 0000	2
1046	M67S11 1P	4-B-26		-427	4	9999	4	250	2	9999	2
1047	M67S14P	4-B-27		-445	30	9953	4	282	8	9981	2
1048	M69COW	4-B-28	YES	0	0	1 0000	1	0	0	1 0000	2
1049	M69S11 1P	4-B-29		-422	5	9996	4	245	5	9998	4
1050	M69S14P	4-B-30		-434	15	9988	4	273	4	9994	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1051	H69P11 1P	4-B-31		-435	8	9993	4	11	3	8087	2
1052	H69P14P	4-B-32	YES	0	0	1 0000	1	0	0	1 0000	2
1053	H71CDA	4-B-33		-382	3	9999	1	-1	2	0777	2
1054	H71S10 1P	4-B-34		-382	4	9998	1	233	2	9999	2
1055	H71S13P	4-B-35		-507	3	9999	1	351	25	9526	2
1056	H6358 5P	4-B-36		-377	4	9998	1	141	3	9993	2
1057	H69COP	4-B-37	YES	42	3	9906	3	1	3	9906	3
1058	H65COP	4-B-38		5	3	1 0000	4	3	3	6437	4
1059	H65CDNA	4-B-39	YES	0	0	1 0000	1	0	0	1 0000	1
1060	H63COP	4-B-40		427	5	9997	4	-1	3	8473	1
1061	H65COP	4-B-41		882	97	9657	1	150	63	9149	2
1062	H65S13W	4-B-42		320	3	9999	2	232	2	9998	1
1063	H67COP	4-B-43	YES	0	0	1 0000	4	0	0	1 0000	2
1064	H69P13W	4-B-44		303	3	9999	4	-226	3	9996	2
1065	H69COP	4-B-45	YES	0	0	1 0000	1	0	0	1 0000	2
1066	H69S13W	4-B-46		345	2	9997	1	0	0	1 0000	2
1067	H71COP	4-B-47		408	4	9995	1	-7	4	7414	2
1068	H61COP	4-B-48		425	5	9997	1	-8	5	9997	3
1069	F61CDA	4-B-49		-14	3	9925	1	2	4	5524	2
1070	B6458 5MHRV	4-B-50		-42	7	9715	1	23	8	8473	1
1071	B6458 5MHRD	4-B-51		-119	7	9955	1	22	5	9200	2
1072	B6458 5MHRH	4-B-52		-318	157	5889	1	-5	255	4437	2
1073	H65S20P(CUL)	4-B-53		-311	7	9990	1	345	5	9996	2
1074	H65S20P(ACL)	4-B-54		-291	3	9998	1	320	3	9999	1
1075	H65S20P(FCL)	4-B-55		-256	3	9999	4	289	2	9999	2
1076	ASM176C090	4-B-56		-374	3	9998	2	133	2	9996	2
1077	ASM162C65	4-B-57		-578	4	9998	4	-186	2	9996	2
1078	ASM162C60	4-B-58	YES	-499	413	2859	1	-246	65	1937	2
1079	ASM162C55	4-B-59		-457	4	9997	4	-144	2	9995	2
1080	H68S19P(D)	4-B-60		3	5	9692	1	0	2	9610	2
1081	B80C022P	3--1		-130	4	9988	4	1	2	9038	2
1082	B80C022S	3--2		272	2	9999	4	0	1	5907	2
1083	B80P322P	3--3		-96	2	9991	4	1	2	9991	4
1084	B80P322S	3--4		166	3	9994	4	-6	1	8919	2
1085	B80P822P	3--5		-49	1	9976	4	-14	1	9976	4
1086	B80P822S	3--6		64	2	9989	4	-20	1	9968	2
1087	B80C0M2P	3--7		-8	5	7950	4	8	5	7950	4
1088	B80C0M2S	3--8		38	6	8927	1	-7	3	8306	2
1089	B80P3M2P	3--9		-40	2	9969	1	-9	3	7899	2
1090	B80P3M2S	3--10		94	3	9977	1	-2	2	6647	1
1091	B80P8M2P	3--11		14	2	9673	4	-1	2	9673	4
1092	B80P8M2S	3--12		33	4	9358	1	0	5	1599	2
1093	B80C0MFP	3--13	YES	0	0	1 0000	1	0	0	1 0000	1
1094	B80C0MFS	3--14		-1	4	9872	1	-8	20	3178	4
1095	B80P9MFP	3--15		39	5	9635	4	11	4	6735	2
1096	B80P9MFS	3--16		-21	13	5930	1	-51	25	7812	3
1097	B80C0F1P	3--17		59	1	9977	1	0	1	9384	2
1098	B80C0F1S	3--18		-141	3	9993	1	-3	3	3708	2
1099	B80P6F1P	3--19		45	2	9896	1	2	2	9095	2
1100	B80P6F1S	3--20		38	2	9890	1	-12	2	8802	2
1101	B80S422P	3--21		-111	3	9991	1	5	2	9753	2
1102	B80S422S	3--22		243	3	9997	1	-3	2	6231	2
1103	B80S822P	3--23		-82	4	9945	3	13	1	9854	2
1104	B80S822S	3--24		174	8	9954	4	-17	7	6602	2
1105	B80S4M2P	3--25		-30	2	9960	1	-2	3	0869	2
1106	B80S4M2S	3--26		40	2	9925	1	13	2	9721	2
1107	B80S8M2P	3--27		10	1	7340	4	0	2	6772	2
1108	B80S8M2S	3--28		50	2	9955	1	-16	5	9839	4
1109	B80S7MFP	3--29		6	1	8994	1	-2	4	8411	4
1110	B80S7MFS	3--30		-17	5	9766	1	17	4	9572	2
1111	B80S6F1P	3--31		38	4	9720	3	-10	4	9720	3
1112	B80S6F1S	3--32		59	14	8724	4	21	14	8724	4
1113	B80C0MHRM	3--33		-3	10	6729	4	-20	21	4385	3
1114	B80C0MHRD	3--34		-118	2	9992	1	8	1	9530	2
1115	B80C0MHRV	3--35		-44	3	9983	1	-1	4	5427	2
1116	B80P711RV	3--36		18	2	9573	1	0	2	3836	2
1117	B80P711RD	3--37		-9	3	9861	1	11	4	8634	2
1118	B80P711RH	3--38		-74	5	9902	4	19	4	9254	2
1119	B80P11F1RV	3--39		41	5	9712	3	8	5	9712	3
1120	B80P11F1RD	3--40		8	4	9851	1	-33	9	9045	4
1121	B80P11F1RH	3--41		-20	4	9908	4	-49	0	9953	2
1122	B80P12FFRV	3--42	YES	0	0	1 0000	1	0	0	1 0000	2
1123	B80P12FFRD	3--43		16	1	9789	1	27	1	9928	2
1124	B80P12FFRH	3--44		-17	3	9885	1	-8	4	6919	2
1125	B80S711RH	3--45		-94	3	9968	1	-10	2	8608	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1126	B80S11IRD	3-46	YES	0	0	1.0000	1	0	0	1.0000	2
1127	B80S11IRV	3-47		-47	6	9801	1	29	12	8825	2
1128	B80S11IRH	3-48		-5	10	0689	1	5	3	8885	2
1129	B80S11FIRD	3-49		-72	3	9966	1	-43	1	9979	2
1130	B80S11FIRV	3-50		-23	6	9771	1	-49	2	9925	2
1131	B80S12FFRH	3-51		-19	3	9813	4	13	1	9807	2
1132	B80S12FFRD	3-52	YES	0	1	1973	4	0	1	1973	4
1133	B80S12FFRV	3-53		-25	5	9756	1	-26	2	9802	2
1134	H84 5521P(CU)	3-54		-279	3	9992	4	179	2	9996	2
1135	H101P20P(UC)	3-55		-71	6	9816	4	-22	2	9656	2
1136	H100P20P(AC)	3-56		-55	2	9962	4	-27	2	9915	2
1137	B98COMMP(C)	3-57		56	6	9458	1	8	3	9128	2
1138	M101 3COW(C)	3-58		-123	6	9965	1	0	3	8920	2
1139	M101 3COW(C)	3-59		-6	3	6794	4	-1	1	2944	2
1140	B80CMF(D)	3-60		-6	4	5604	4	0	1	9434	2
1141	M73P13P	3-A-1		-354	4	9998	1	63	2	9981	2
1142	M73P12W	3-A-2		-458	2	9999	4	-263	2	9999	2
1143	M73P10 1P	3-A-3		-391	5	9996	1	-202	3	9995	2
1144	M73P6W	3-A-4		-363	5	9996	1	-117	7	9992	4
1145	M73P6W	3-A-5		-368	7	9990	4	-109	6	9949	2
1146	M73P2W	3-A-6		-389	2	9999	4	-5	1	9467	2
1147	M73COW	3-A-7		-397	4	9998	1	0	2	5633	2
1148	M73S2W	3-A-8		-349	4	9998	4	26	2	9890	2
1149	M73S4W	3-A-9		-463	4	9998	1	-276	3	9997	2
1150	M73S6W	3-A-10		-348	3	9998	1	98	2	9889	2
1151	M73S8W	3-A-11		-360	3	9999	1	111	4	9956	2
1152	M73S9W	3-A-12		-385	3	9999	4	134	1	9997	2
1153	M73S9 5P	3-A-13	YES	0	0	1.0000	1	0	0	1.0000	2
1154	M73S10 1P	3-A-14		-402	7	9995	4	201	3	9995	2
1155	M73S11W	3-A-15		-433	3	9999	4	246	3	9997	2
1156	M73S11 5P	3-A-16		-384	2	1.0000	4	238	2	9998	2
1157	M73S12P	3-A-17		-430	2	9999	1	273	3	9997	2
1158	M73S12 5P	3-A-18		-469	5	9999	4	287	2	9998	2
1159	M73S13P	3-A-19		-485	3	9999	4	295	2	9999	2
1160	Z73COW	3-A-20		589	6	9998	1	1	3	8245	2
1161	Z73S2W	3-A-21		-622	5	9999	1	43	2	9956	2
1162	Z73S4W	3-A-22		-555	3	9999	1	64	3	9947	2
1163	Z73S6W	3-A-23		-720	27	9960	3	115	3	9982	2
1164	Z73S8W	3-A-24		-764	11	9994	3	179	3	9994	2
1165	Z73S9W	3-A-25		-744	4	9999	1	177	5	9999	3
1166	Z73S9 5P	3-A-26		-755	32	9948	3	206	5	9983	2
1167	Z73S10W	3-A-27		-901	6	9999	3	218	4	9994	2
1168	Z73S11P	3-A-28		-878	39	9965	4	226	39	9965	4
1169	Z73P6W	3-A-29		-729	12	9992	4	-118	4	9977	2
1170	Z73P10W	3-A-30		-704	10	9994	4	-162	5	9975	2
1171	W73SM20 1P	3-A-31		-430	2	1.0000	1	200	2	1.0000	4
1172	W73SM22 0W	3-A-32		-361	16	9951	1	169	18	9731	2
1173	W73SM23 9P	3-A-33		-790	5	9999	1	224	5	9999	4
1174	H78S20P(ICI)	3-A-34		-239	3	9999	4	217	3	9999	4
1175	H73S1W	3-A-35		528	4	9999	1	17	5	9998	3
1176	H73S3W	3-A-36		486	5	9997	1	44	9	8822	2
1177	H73P3W	3-A-37		572	5	9998	1	-25	3	9488	2
1178	H73S5W	3-A-38		424	3	9998	4	66	3	9998	4
1179	H73S7W	3-A-39		422	3	9998	4	117	3	9989	2
1180	H73P7W	3-A-40		356	3	9998	1	-136	3	9983	2
1181	H73S9W	3-A-41		373	3	9998	4	144	1	9999	2
1182	H73S11W	3-A-42	YES	0	0	1.0000	1	0	0	1.0000	2
1183	H73P11W	3-A-43		329	2	1.0000	4	-179	2	9998	2
1184	H73S12W	3-A-44		355	5	9994	1	201	3	9995	2
1185	H73S13W	3-A-45		323	5	9995	4	219	5	9995	4
1186	H73P13W	3-A-46		349	5	9998	4	-228	4	9994	2
1187	H73S14W	3-A-47		238	3	9995	1	226	2	9998	2
1188	H73S15W	3-A-48		114	4	9992	3	241	2	9998	2
1189	H73P15W	3-A-49		122	7	9993	4	-243	5	9992	2
1190	H73S16 5P	3-A-50		-44	6	9994	4	258	3	9997	2
1191	H73P16 5P	3-A-51		-34	3	9997	4	-237	3	9996	2
1192	H73S18W	3-A-52	YES	3	4	3982	1	0	0	1.0000	2
1193	H73S20W	3-A-53		-393	5	9997	1	280	1	9999	2
1194	H73P20W	3-A-54		-384	3	9999	4	-272	3	9999	4
1195	H78 5518P(AC)	3-A-55		59	4	9763	1	-51	2	9846	2
1196	I98 1COP(C)	3-A-56		-124	5	9970	4	6	4	5257	2
1197	B98S6MMP(C)	3-A-57		254	7	9985	4	-21	2	9829	2
1198	H17S17W(C)	3-A-58		-63	6	9870	4	28	2	9933	2
1199	RESISTOP	3-A-59		-8	17	0680	3	-4	4	8797	2
1200	H78S19(D)	3-A-60		0	6	9575	1	2	6	7087	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CA.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1201	Z75COW	3-B-1		-533	4	9999	1	1	2	9213	2
1202	Z77COW	3-B-2		-508	3	9999	4	0	1	5577	2
1203	Z79COW	3-B-3		-421	2	9999	4	3	2	7582	2
1204	Z79 SCOW	3-B-4	YES	0	0	1.0000	1	0	0	1.0000	2
1205	Z83COW	3-B-5		-363	6	9994	1	14	4	7912	2
1206	Z85COW	3-B-6		-239	2	9999	4	6	2	8151	2
1207	W83PZM3 9P	3-B-7		-345	4	9997	4	-111	1	9994	2
1208	Z83P6W	3-B-8		-396	2	9999	4	-162	2	9984	2
1209	RESISTOR	3-B-9	YES	1	2	4465	1	0	0	1.0000	2
1210	Z83S6W	3-B-10		-342	3	9992	4	65	2	9980	2
1211	Z79 556W	3-B-11		-475	3	9994	1	77	3	9975	2
1212	Z79 559 9P	3-B-12		-537	5	9998	1	148	2	9994	2
1213	W83SMZ0 1P	3-B-13	YES	0	0	1.0000	1	0	0	1.0000	2
1214	W83SMZ2 OW	3-B-14		-199	3	9996	1	94	2	9989	2
1215	W83S7M3 9P	3-B-15	YES	0	0	1.0000	1	0	0	1.0000	2
1216	M75COW	3-B-16		-311	4	9997	1	130	2	9997	2
1217	M75S10 1P	3-B-17		-404	3	9994	3	205	2	9994	2
1218	M75S13P	3-B-18		-410	4	9992	1	277	2	9999	2
1219	M77COW	3-B-19		-411	2	9999	1	1	1	8538	2
1220	M77S10 1P	3-B-20		-469	5	9992	1	191	3	9995	2
1221	M77S13P	3-B-21		-335	3	9998	1	244	3	9996	2
1222	B80P611W(C)	3-B-22		-34	3	9999	1	2	4	5284	2
1223	M77P13P	3-B-23	YES	0	0	1.0000	1	0	0	1.0000	2
1224	M79COW	3-B-24		-359	2	9994	1	3	2	6805	2
1225	M79S10 1P	3-B-25		-319	2	9999	3	146	1	9999	3
1226	M79S13P	3-B-26		-249	3	9997	1	176	2	9999	4
1227	M85COW	3-B-27		-283	2	9994	4	3	2	9999	4
1228	M81S10 1P	3-B-28		262	5	9993	1	151	3	9991	2
1229	M81S13P	3-B-29		290	2	9999	1	164	2	9999	4
1230	M81P10 1P	3-B-30		-224	2	9999	1	-147	4	9984	2
1231	M81P13P	3-B-31		-323	3	9998	4	-141	3	9992	4
1232	M83COW	3-B-32	YES	0	0	1.0000	1	0	0	1.0000	2
1233	M83S10 1P	3-B-33		271	2	9999	4	149	2	9999	4
1234	M83S13P	3-B-34		346	2	9999	1	195	1	9999	2
1235	M81COW	3-B-35		-348	3	9990	1	0	1	1343	2
1236	M85S10 1P	3-B-36		-248	3	9997	1	103	2	9988	2
1237	M85S13P	3-B-37		195	2	9998	1	133	3	9988	2
1238	M85P10 1P	3-B-38		329	2	9999	4	92	2	9972	2
1239	M85P13P	3-B-39		-210	2	9997	4	-124	2	9995	2
1240	F81 55141NS 1B	3-B-40		10	2	9842	1	-56	3	9896	2
1241	M81S5 5P	3-B-41		373	3	9999	1	38	1	9969	2
1242	M83S5 5P	3-B-42	YES	0	0	1.0000	1	0	0	1.0000	2
1243	M83P10 1P	3-B-43		-293	3	9997	4	-133	1	9997	2
1244	M83P13P	3-B-44	YES	0	0	1.0000	1	0	0	1.0000	2
1245	Z73COW	3-B-45		196	4	9988	1	2	2	8907	2
1246	Z77COW	3-B-46		272	2	9998	4	-1	2	1136	2
1247	Z81COW	3-B-47		256	3	9995	1	-4	3	8550	2
1248	F81COWA	3-B-48		-20	3	9320	3	5	2	7564	2
1249	F85COWA	3-B-49		-50	5	9768	4	4	3	9292	2
1250	B80P8MRRH	3-B-50		3	4	9355	1	-21	3	9160	2
1251	B80P8MRRH	3-B-51		-46	2	9945	4	-20	1	9939	2
1252	B80P8MRRV	3-B-52	YES	0	0	1349	3	0	0	1349	3
1253	B80P8MRRH	3-B-53		-73	4	9935	4	-22	1	9850	2
1254	B80P8MRRD	3-B-54		77	3	9963	1	-22	2	9802	2
1255	B80P8MRRV	3-B-55		5	3	6792	4	2	3	4655	2
1256	ASCOP	3-B-56		314	4	9996	4	3	3	3756	2
1257	RESISTOR	3-B-57	YES	1	1	3107	1	0	0	1.0000	2
1258	RESISTOR	3-B-58		5	4	4045	1	2	5	3812	2
1259	RESISTOR	3-B-59		-214	266	4788	3	-159	266	4788	3
1260	W83P191D	3-B-60		-2	3	9759	1	4	2	1603	2
1261	B86C022P	2-B-1		114	4	9961	1	-1	1	9338	2
1262	B86C022S	2-B-2		-404	3	9999	3	8	2	9220	2
1263	B86P322P	2-B-3		71	1	9990	4	7	1	9028	2
1264	B86P322S	2-B-4		267	3	9998	1	-8	3	9997	3
1265	B86P322P	2-B-5		68	3	9889	1	-2	4	8848	2
1266	B86P322S	2-B-6		183	1	9999	1	3	3	7161	2
1267	B86COM2P	2-B-7		5	2	9886	1	2	2	5318	2
1268	B86COM2S	2-B-8		78	5	9919	1	3	3	6440	2
1269	B86P3M2P	2-B-9		18	11	6381	4	-2	11	2267	2
1270	B86P3M2S	2-B-10		18	4	4586	4	4	2	8758	2
1271	B86P8M2P	2-B-11		5	2	9260	4	10	2	8183	2
1272	B86P8M2S	2-B-12		-22	2	9930	1	16	2	9501	2
1273	B86COM2P	2-B-13		0	2	6783	4	3	2	6783	4
1274	B86COM2S	2-B-14		-188	2	9997	3	6	2	8252	2
1275	B86P8M2P	2-B-15		-34	4	9752	4	4	2	6926	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1276	B86P9MFS	2-A-16		-49	4	9930	1	36	3	9877	2
1277	B86CDF1P	2-A-17		-19	2	9906	1	3	1	8051	1
1278	B86CDF1S	2-A-18		-18	2	9775	4	5	2	6910	1
1279	B86P6F1P	2-A-19		-34	3	9825	3	8	2	9418	1
1280	B86P6F1S	2-A-20	YES	-43	2	9982	1	11	2	5447	1
1281	B86S4Z2P	2-A-21		34	2	9867	1	11	2	7122	2
1282	B86S4Z2S	2-A-22		200	2	9998	1	21	6	7885	1
1283	B86S8Z2P	2-A-23		76	1	9990	3	11	2	2264	1
1284	B86S8Z2S	2-A-24	YES	-183	5	9904	4	8	1	8846	1
1285	B86S4M2P	2-A-25		7	3	9870	1	1	1	9106	1
1286	B86S4M2S	2-A-26		-90	2	9957	4	6	1	8791	2
1287	B86S8M2P	2-A-27		14	2	9885	1	-12	2	9820	4
1288	B86S8M2S	2-A-28		19	5	7884	1	-17	5	9038	2
1289	B86S2MFS	2-A-29		-37	2	9944	1	5	2	1297	1
1290	B86S2MFS	2-A-30		16	6	7565	1	8	2	9515	1
1291	B86S6F1P	2-A-31		-19	2	9532	1	-11	1	8437	1
1292	B86S6F1S	2-A-32		-50	3	9912	3	7	3	9912	3
1293	B86CGHHR	2-A-33		15	2	9545	1	7	3	8503	2
1294	B86CDHHR	2-A-34		14	2	9885	1	8	2	9034	1
1295	B86CDHHR	2-A-35		71	3	9974	1	3	1	7745	1
1296	B86P711RV	2-A-36	YES	1	1	9938	1	1	1	8123	2
1297	B86P711RD	2-A-37		19	3	9154	1	26	3	9783	1
1298	B86P711RH	2-A-38		-57	1	9976	1	9	1	9778	1
1299	B86P11F1RV	2-A-39		2	9	8726	4	23	6	9037	1
1300	B86P11F1RH	2-A-40	YES	0	0	2401	1	0	0	0000	1
1301	B86P11F1RD	2-A-41		-63	3	9956	1	2	1	9243	1
1302	B86P12FFRV	2-A-42		15	2	9776	1	22	2	9874	1
1303	B86P12FFRD	2-A-43		81	3	9957	1	21	5	9940	3
1304	B86P12FFRH	2-A-44		30	3	9780	1	6	4	4823	1
1305	B86S711RH	2-A-45		-127	2	9993	1	-2	2	8295	1
1306	B86S711RD	2-A-46		-117	3	9988	1	6	3	9315	1
1307	B86S711RV	2-A-47		-25	7	8737	4	-21	5	8215	2
1308	B86S11F1RH	2-A-48		-89	14	9700	1	-22	16	5436	1
1309	B86S11F1RD	2-A-49		-37	1	9983	1	-7	1	9351	1
1310	B86S11F1RV	2-A-50		0	3	9917	4	-33	2	9925	1
1311	B86S12FFRH	2-A-51		0	2	8982	4	-5	2	7880	2
1312	B86S12FFRD	2-A-52		56	3	9972	4	23	2	9756	2
1313	B86S12FFRV	2-A-53		50	2	9978	4	-34	2	9922	1
1314	H44 5521P(CM)	2-A-54		-229	2	9999	4	175	2	9999	4
1315	H44 5521P(C.L)	2-A-55		-250	8	9978	1	179	4	9987	1
1316	RES1STOP	2-A-56		1	4	8658	1	2	4	8271	1
1317	RES1STOP	2-A-57		0	4	2096	3	2	2	5218	1
1318	RES1STOP	2-A-58		1	4	2067	3	3	3	7423	1
1319	RES1STOP	2-A-59		3	3	9569	1	3	3	8571	1
1320	W78P3M2 D1	2-A-60		3	4	9777	1	-4	4	8186	1
1321	B92CQ22P	2-A-1		150	10	9926	4	54	4	9615	1
1322	B92CQ22S	2-A-2		403	5	9997	1	28	3	9847	1
1323	B92P4Z2P	2-A-3		-49	7	9307	1	-19	4	8444	1
1324	B92P4Z2S	2-A-4		-182	5	9985	4	26	2	9829	2
1325	B92P8Z2P	2-A-5		130	25	9212	4	18	7	9057	1
1326	B92P8Z2S	2-A-6		45	17	7612	4	24	8	8277	2
1327	B92CQM2P	2-A-7		23	7	9157	4	21	3	9696	2
1328	B92CQM2S	2-A-8		8	6	8531	4	14	3	9205	1
1329	B92P4M2P	2-A-9		33	5	8946	1	30	5	9550	2
1330	B92P4M2S	2-A-10		-30	15	8515	3	10	12	3972	2
1331	B92P8M2P	2-A-11		63	14	9747	4	55	3	9418	2
1332	B92P8M2S	2-A-12		-56	14	9563	4	22	6	9247	2
1333	B92CQM2P	2-A-13		-11	11	6160	4	11	5	8107	2
1334	B92CQM2S	2-A-14		-164	3	9950	3	3	2	8314	1
1335	B92P8M2P	2-A-15		-100	7	9917	1	26	2	9847	2
1336	B92P8M2S	2-A-16		-145	6	9978	1	-19	9	5590	2
1337	B92CDF1P	2-A-17		2	49	2090	1	-46	182	1287	3
1338	B92CDF1S	2-A-18		11	21	2121	1	6	9	4743	3
1339	B92P6F1P	2-A-19		-66	7	9702	3	14	7	9702	3
1340	B92P6F1S	2-A-20	YES	-45	2	9968	1	0	2	8655	2
1341	B92S4Z2P	2-A-21		-1	15	5739	4	46	4	9698	2
1342	B92S4Z2S	2-A-22		-207	30	9557	4	65	28	6270	2
1343	B92S8Z2P	2-A-23		91	14	9429	3	-29	4	9432	1
1344	B92S8Z2S	2-A-24	YES	-129	14	9774	3	-29	14	9774	2
1345	B92S4M2P	2-A-25		3	8	9468	1	-12	13	9075	2
1346	B92S4M2S	2-A-26		63	7	9926	4	-44	4	9751	2
1347	B92S8M2P	2-A-27		-62	7	9880	3	-37	3	9874	2
1348	B92S8M2S	2-A-28		-68	12	9609	3	-12	6	8850	2
1349	B92S2MFS	2-A-29		0	4	3339	3	1	2	1532	1
1350	B92S2MFS	2-A-30		-40	6	9352	4	6	2	9564	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1351	B9256FIP	2-A-31		-68	6	9909	1	-5	5	4267	2
1352	B9256FIS	2-A-32		-49	4	9908	1	10	4	7810	2
1353	B92P 2MHRM	2-A-33		-68	6	9816	1	28	15	5883	2
1354	B92P 2MHRD	2-A-34		-83	3	9970	4	10	3	8539	2
1355	B92P 2MHRV	2-A-35		-9	3	9992	1	4	2	9544	2
1356	B92P71IRV	2-A-36	YES	1	1	2348	4	0	1	8083	2
1357	B92P71IRD	2-A-37		-103	4	9964	4	-16	4	8784	2
1358	B92P71IRH	2-A-38		-98	3	9970	3	2	3	1516	2
1359	B92P11FIRV	2-A-39		4	3	5714	1	19	3	8538	2
1360	B92P11FIRD	2-A-40	YES	0	1	1971	3	0	1	1971	2
1361	B92P11FIRH	2-A-41		-65	5	9922	1	6	6	5541	2
1362	B92P11 9FFRV	2-A-42		22	4	9242	1	24	5	9602	3
1363	B92P11 9FFRD	2-A-43		45	3	9754	1	13	3	9655	2
1364	B92P11 9FFRH	2-A-44		17	3	4485	1	40	7	8309	2
1365	B92571IRH	2-A-45		-67	3	9971	1	-2	4	0773	2
1366	B92571IRD	2-A-46		-45	4	9794	3	21	4	9794	3
1367	B92571IRV	2-A-47		-40	4	9928	1	-16	4	8395	2
1368	B92511FIRH	2-A-48		-70	4	9959	1	-28	5	9131	2
1369	B92511FIRD	2-A-49		0	3	8450	3	9	3	8450	3
1370	B92511FIRV	2-A-50		-14	10	4868	4	-3	3	2011	2
1371	B92511 9FFRH	2-A-51		14	5	6643	1	-55	4	9315	4
1372	B92511 9FFRD	2-A-52		34	5	9523	1	-22	4	9589	2
1373	B92511 9FFRV	2-A-53		28	5	8875	1	-18	5	8584	2
1374	F91511 9P(BB)	2-A-54		155	7	9945	1	-85	6	9894	2
1375	M87 5P10S(IPST)	2-A-55		-253	8	4465	3	-4	6	9999	3
1376	RESISTOR	2-A-56		10	326	0890	1	0	0	1 0000	2
1377	RESISTOR	2-A-57	YES	-239							
1378	RESISTOR	2-A-58		-4	8	6544	1	-2	6	7038	2
1379	RESISTOR	2-A-59	YES	10	12	1491	1	0	0	1 0000	2
1380	M79 5CD101	2-A-60		-5	5	9733	1	-5	4	7025	2
1381	M93 6P8W	2-B-1		-299	4	9997	1	-66	2	9973	2
1382	M93 6P2 5P	2-B-2		-298	3	9998	1	-65	2	9972	2
1383	M93 6P9W	2-B-3		-298	2	9999	3	-81	2	9987	2
1384	M93 6P9 5P	2-B-4		-224	2	9998	4	-52	2	9998	4
1385	M93 6P10W	2-B-5		-302	3	9992	1	-87	4	9929	2
1386	M93 6P11W	2-B-6		-259	1	9999	1	-81	1	9994	2
1387	M92 8P8W	2-B-7		-89	5	9945	1	-85	3	9976	2
1388	M92 8P8 5RH	2-B-8		174	2	9997	1	46	3	9996	3
1389	M92 8P8 5RD	2-B-9		18	2	9779	1	-127	3	9986	2
1390	M92 8P8 5RL	2-B-10		-399	2	1 0000	1	-78	2	9984	2
1391	M92 8P9W	2-B-11		-361	2	1 0000	3	-85	2	9990	2
1392	M92 8P9 5P	2-B-12		-261	4	9993	4	-61	1	9987	2
1393	M92 8P10W	2-B-13		-306	2	9999	3	-86	2	9999	3
1394	M92 8P11W	2-B-14		-201	2	9996	1	-91	1	9993	2
1395	M92 8P12W	2-B-15		-232	3	9997	1	-89	1	9996	2
1396	M92 2P8W	2-B-16		-52	7	8827	1	-99	4	9964	2
1397	H85 9P17P(LP)	2-B-17		-7	3	9992	3	-138	1	9997	2
1398	M92 2P8 5P	2-B-18		139	25	9417	3	-141	4	9984	2
1399	B92P7MMS(IC)	2-B-19		-183	7	9991	1	-20	3	9187	2
1400	M92 3P95	2-B-20		-322	5	9844	1	-95	3	9980	2
1401	M92 3P9 2RH	2-B-21		52				49	3	9945	2
1402	M92 3P9 2RD	2-B-22		82	8	9878	3	-94	2	9984	2
1403	M92 3P9 2RL	2-B-23		-398	2	1 0000	1	-80	3	9976	2
1404	M92 3P9 5P	2-B-24	YES	-511	4	9998	4	-97	3	9982	2
1405	M92 3P10S	2-B-25		-299	3	9999	1	-89	2	9978	2
1406	M92 3P11S	2-B-26		-219	2	9995	1	-103	2	9993	2
1407	M92 3P12S	2-B-27		-261	2	9999	1	-72	3	9953	2
1408	M91 6P8S	2-B-28		-411	10	9986	1	-39	9	8888	2
1409	M91 6P2 2P	2-B-29		-242	2	9998	1	-86	2	9987	2
1410	M91 6P8 5P	2-B-30		-273	4	9994	1	-77	5	9993	3
1411	M91 6P9W	2-B-31		-204	27	9758	3	-80	3	9959	2
1412	M91 6P9 5P	2-B-32		-224	3	9997	1	-93	3	9974	2
1413	M91 6P9 7RL	2-B-33		-216	9	9979	3	-98	9	9979	3
1414	M91 6P9 7RH	2-B-34		655	25	9936	1	-84	21	9472	1
1415	M91 6P9 7RD	2-B-35		66	2	9945	1	52	2	9929	2
1416	M91 6P10W	2-B-36	YES	2	2	5142	3	0	2	5142	3
1417	M91 6P11W	2-B-37		-307	3	9988	3	-94	3	9998	3
1418	M91 6P12W	2-B-38		-269	6	9990	1	-88	2	9984	2
1419	H86 1P19P(INSU)	2-B-39		681	3	1 0000	1	-56	3	9941	2
1420	H86 1P19P(HSL)	2-B-40	YES	0	7	2242	1	0	0	1 0000	2
1421	H645 1MMP(CUST)	2-B-41		5	13	6477	1	-17	4	9208	2
1422	H71 9P15P(IC)	2-B-42		263	5	9992	1	-284	5	9999	4
1423	H719P(IC)	2-B-43		323	6	9992	3	-152	4	9861	2
1424	B64P8 5MFRY(BB)	2-B-44		-48	4	9812	3	-22	3	9742	2
1425	B64P8 5MFRD(BB)	2-B-45		-217	9	9952	4	-34	3	9859	2



TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1426	B66PB SMFRH(BB)	2-B-46		-120	12	9784	4	10	9	5855	1
1427	M80S95(SU)	2-B-47		-85	4	9985	4	98	2	9968	2
1428	M80S95(SL)	2-B-48		104	5	9930	3	33	4	9803	2
1429	H79 551AP(FC)	2-B-49		46	2	9920	1	-52	1	9989	1
1430	H79S20P(CU)	2-B-50		158	2	1 0000	4	221	2	1 0000	4
1431	RESISTOR	2-B-51		2	9	1643	3	4	6	8642	1
1432	RESISTOR	2-B-52		-2	1	4647	1	0	0	1 0000	2
1433	RESISTOR	2-B-53	YES	-23	26	3894	1	0	0	1 0000	1
1434	RESISTOR	2-B-54	YES	22	25	3907	1	0	0	1 0000	2
1435	RESISTOR	2-B-55		3	4	9245	1	4	4	8210	2
1436	RESISTOR	2-B-56		1	4	8904	1	4	4	8513	1
1437	RESISTOR	2-B-57		2	5	6254	1	4	6	6571	1
1438	RESISTOR	2-B-58		0	4	9155	1	4	4	6732	2
1439	RESISTOR	2-B-59	YES	-14	16	3896	1	0	0	1 0000	1
1440	M89P19(D)	2-B-60		2	6	9646	1	-1	3	8983	1
1441	Z87COW	1-B-1		-201	4	9988	3	0	2	7833	1
1442	Z89COW	1-B-2		-183	3	9994	1	14	2	9531	1
1443	Z91COW	1-B-3		-55	4	7961	1	-2	2	8649	2
1444	W91 95MZO 1RL	1-B-4	YES	-23	5	9813	1	25	2	9902	2
1445	W91 95MZO 1RD	1-B-5		-990	18	9993	4	87	3	9976	1
1446	W91 95MZO 1RY	1-B-6		57	15	9486	4	-57	2	9947	2
1447	M87COW	1-B-7		-319	16	9939	3	2	16	9939	1
1448	M87S9 1P	1-B-8		-270	11	9975	4	97	8	9824	2
1449	M87S12	1-B-9		-226	2	9995	4	110	2	9999	4
1450	M89COW	1-B-10	YES	0	0	1 0000	1	0	0	1 0000	1
1451	M89S9 1P	1-B-11		-256	2	9998	3	96	2	9994	1
1452	M89S12	1-B-12	YES	0	0	1 0000	1	0	0	1 0000	1
1453	M89P9 1P	1-B-13		-228	3	9997	1	-102	3	9972	2
1454	M89P12	1-B-14	YES	0	0	1 0000	0	0	0	1 0000	2
1455	M91COW	1-B-15		-195	22	9735	3	-16	22	9735	3
1456	M91S9 1P	1-B-16		-259	7	9980	3	71	7	9980	3
1457	M91S12	1-B-17		-285	2	9999	3	104	1	9992	2
1458	M93COW	1-B-18	YES	0	0	1 0000	1	0	0	1 0000	2
1459	M93S12	1-B-19		-199	2	9999	1	91	3	9981	2
1460	M93P12	1-B-20	YES	0	0	1 0000	1	0	0	1 0000	2
1461	M97COW	1-B-21		-159	2	9996	1	1	2	1932	2
1462	M97S12	1-B-22		-82	1	9986	1	63	3	9955	2
1463	M97P12	1-B-23		67	3	9968	1	49	2	9961	2
1464	M99COW	1-B-24		-153	3	9992	1	0	2	2353	2
1465	M99S12	1-B-25		-56	2	9990	4	34	2	9990	4
1466	M101COW	1-B-26		-126	3	9994	1	-4	3	9395	2
1467	M101S12	1-B-27		-114	3	9574	3	41	2	9890	2
1468	M101P12	1-B-28	YES	0	0	1 0000	1	0	0	1 0000	2
1469	M103COW	1-B-29		0	0	1 0000	1	-4	2	9994	4
1470	M103S11	1-B-30		-116	5	9968	1	36	5	9640	1
1471	M105COW	1-B-31		-130	4	9985	1	2	4	5674	2
1472	M105S11	1-B-32		-150	4	9991	1	26	3	9881	2
1473	M105P11	1-B-33	YES	0	0	1 0000	1	0	0	1 0000	1
1474	M107S11	1-B-34		94	2	9995	4	32	1	9970	2
1475	M107COW	1-B-35		-208	3	9996	3	-1	2	4514	2
1476	F89COWA	1-B-36		-5	2	8478	3	-2	1	2303	1
1477	F89COP	1-B-37		184	2	9996	1	-2	2	6909	2
1478	F93COWA	1-B-38		65	3	9916	1	0	2	4545	2
1479	F93COP	1-B-39	YES	0	0	1 0000	1	0	0	1 0000	2
1480	F97COWA	1-B-40		64	6	9802	4	-4	3	6203	2
1481	F97COP	1-B-41		152	4	9980	1	-1	2	7855	2
1482	F101COWA	1-B-42		197	5	9983	1	-2	2	0891	1
1483	F101COP	1-B-43		31	15	5228	1	2	12	3024	2
1484	F105COWA	1-B-44		177	9	9939	4	-20	8	6542	2
1485	F105COP	1-B-45		-69	7	9770	3	-6	3	7082	2
1486	ASM279C120	1-B-46		-651	4	9999	4	80	2	9988	2
1487	ASM279C112(RES)	1-B-47		-462	3	9999	3	82	1	9993	2
1488	ASM287C315	1-B-48		-1744	9	9999	1	108	122	9890	3
1489	ASM287C308	1-B-49		-1848	7	1 0000	1	286	69	9988	4
1490	ASM287C300	1-B-50		-1684	7	1 0000	1	195	7	9977	2
1491	ASM287C293	1-B-51		-1414	6	1 0000	1	183	3	9996	2
1492	ASM287RYMF	1-B-52		-344	3	9999	1	98	1	9996	2
1493	ASM287RDMF	1-B-53		225	3	9995	1	139	15	9907	2
1494	ASM287RLMF	1-B-54		-163	5	9971	1	-12	4	7092	2
1495	R9257M2P(BM)	1-B-55		-41	9	9784	4	-50	5	8690	2
1496	R9257M2S(BM)	1-B-56		-186	11	9925	3	-11	10	6337	2
1497	RESISTOR	1-B-57		2	3	3029	4	-1	3	3029	4
1498	RESISTOR	1-B-58		-8	4	6587	4	2	4	1512	2
1499	RESISTOR	1-B-59	YES	0	0	1 0000	1	0	0	1 0000	2
1500	M92P11(D)	1-B-60		2	2	9950	1	-1	3	9210	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1501	B98CDMMS	1-A-1		-489	4	9998	3	7	2	9091	2
1502	B98COMMP	1-A-2		243	11	9948	1	4	3	3130	2
1503	B98P4MMP	1-A-3		47	6	9366	1	8	3	8777	2
1504	B98P4MMS	1-A-4	YES	0	0	1 0000	1	0	0	1 0000	2
1505	B98P9MMP	1-A-5		-149	7	9954	4	10	4	7103	2
1506	B98P9MMS	1-A-6		-161	12	9897	1	-24	7	7211	2
1507	B98COMFP	1-A-7		57	15	8581	4	27	16	8581	4
1508	B98COMFS	1-A-8		-73	30	1249	4	2	1	9181	2
1509	B98PSMFP	1-A-9		32	8	8591	4	15	5	6677	4
1510	B98PSMFS	1-A-10		116	21	9507	3	42	6	9564	2
1511	B98P6FIP	1-A-11		-22	8	8332	3	28	4	9520	2
1512	B98COFIS	1-A-12	YES	0	0	1 0000	1	0	0	1 0000	2
1513	B98COFIP	1-A-13		5	9	8321	1	8	1	9677	2
1514	B98P6FIS	1-A-14		-29	9	8289	3	-3	5	8289	3
1515	B98S4MMP	1-A-15		75	8	9724	4	-4	2	4242	2
1516	B98S4MMS	1-A-16		154	18	9669	4	-7	18	9669	4
1517	B98P8MMP	1-A-17		80	11	9461	1	24	5	9366	2
1518	B98S4MMS	1-A-18		-34	19	6832	1	-59	8	9594	2
1519	B98S3MFP	1-A-19		-9	10	9277	1	2	3	8860	2
1520	B98S4MFS	1-A-20		34	11	7682	1	7	6	4305	2
1521	B98S6FIP	1-A-21		-12	9	7183	1	3	2	7492	2
1522	B98S6FIS	1-A-22		-18	8	7772	3	20	2	9622	2
1523	B98P 2HHRH	1-A-23		-134	8	9913	3	6	4	7462	2
1524	B98P 2HHRD	1-A-24		57	12	9428	3	3	4	9211	2
1525	B98P 2HHRV	1-A-25		-16	9	6911	3	9	3	6570	2
1526	B98P71IRD	1-A-26		-84	11	9808	1	32	5	9773	2
1527	B98P71IRV	1-A-27		-171	15	9795	4	-10	3	8765	2
1528	B98P71IRH	1-A-28		-182	6	9975	1	18	6	9337	2
1529	B98P11 5FIRV	1-A-29		80	12	9675	4	-7	3	5830	2
1530	B98P11 5FIRD	1-A-30		255	9	9972	4	-32	5	9464	2
1531	B98P11 5FIRH	1-A-31		-201	10	9931	3	56	6	9790	2
1532	B98P11 9FFRV	1-A-32		-7	7	9766	3	55	5	9887	2
1533	B98P11 9FFRD	1-A-33		251	10	9960	4	13	4	8930	2
1534	B98P11 9FFRH	1-A-34		28	9	9608	4	55	5	9608	4
1535	B98S71IRH	1-A-35		-97	4	9974	1	-3	5	9033	2
1536	B98S71IRD	1-A-36		-55	12	9080	3	40	6	9507	2
1537	B98S71IRV	1-A-37		-26	12	9174	3	-32	2	9757	2
1538	B98S11 5FIRH	1-A-38		-166	9	9940	1	-64	8	9639	2
1539	B98S11 5FIRD	1-A-39		157	15	9828	3	26	15	9828	3
1540	B98S11 5FIRV	1-A-40	YES	-194	206	5446	1	0	0	1 0000	2
1541	B98S11 9FFRH	1-A-41		19	4	9139	1	-104	16	9403	2
1542	B98S11 9FFRD	1-A-42		258	7	9981	1	24	4	9634	2
1543	B98S11 9FFRV	1-A-43		20	8	9247	4	-29	2	9822	2
1544	B98S10MFS	1-A-44		111	30	9326	3	-139	12	9805	2
1545	B98S10MFP	1-A-45		84	14	8251	1	73	12	9589	2
1546	H100P20P(FCI)	1-A-46		-513	6	9998	3	420	6	9998	3
1547	ASMM77C1S1	1-A-47		-1001	10	9998	4	-53	5	9834	2
1548	ASMM77C2S1	1-A-48		-28	10	9094	3	-20	5	8293	2
1549	ASMM77C3S1	1-A-49		-264	15	9943	1	206	8	9966	2
1550	ASMM77C4S1	1-A-50		-250	21	9867	1	175	27	9904	4
1551	ASMM77C5S1	1-A-51		-589	4	9999	3	99	3	9978	2
1552	ASMM77C1S2	1-A-52		-350	6	9993	1	262	3	9998	2
1553	ASMM77C2S2	1-A-53		-351	4	9999	4	267	3	9998	2
1554	ASMM77C3S2	1-A-54		-86	15	9499	3	-23	15	9499	3
1555	ASMM77C4S2	1-A-55		-508	8	9996	3	502	8	9996	3
1556	ASMM77C5S2	1-A-56		-267	8	9996	4	364	6	9993	2
1557	ASMM77P3SA0 5	1-A-57		-935	5	9999	3	100	3	9981	2
1558	ASMM77P3SA1 5	1-A-58		-829	5	9998	3	91	3	9969	2
1559	ASMM77P3SA3 0	1-A-59	YES	0	0	1 0000	1	0	0	1 0000	2
1560	H103S19(D)	1-A-60		-283	10	9985	4	149	2	9997	2
1561	B108P9MFP	1-B-1		-18	2	9953	1	13	2	9317	2
1562	B108CDMMS	1-B-2		24	5	8485	1	5	2	6047	2
1563	B108P4MMP	1-B-3		-59	3	9978	1	10	7	4069	2
1564	B108P4MMS	1-B-4	YES	0	0	1 0000	1	0	0	1 0000	2
1565	B108P8MMP	1-B-5		-37	3	9806	3	8	3	9806	3
1566	B108P8MMS	1-B-6		-39	4	9914	1	7	3	9569	2
1567	RESISTOR	1-B-7		-2	12	1309	1	34	22	6935	4
1568	B108COMFS	1-B-8		-40	4	9771	4	8	3	6519	2
1569	B108P4MFP	1-B-9		-53	2	9980	4	22	2	9980	4
1570	B108P4MFS	1-B-10		83	3	9957	1	18	2	9880	2
1571	RESISTOR	1-B-11		0	8	8216	1	5	6	7885	2
1572	B108COFIS	1-B-12	YES	0	0	1 0000	1	0	0	1 0000	2
1573	B108P6FIP	1-B-13		-22	2	9960	1	19	4	9763	4
1574	B108P6FIS	1-B-14		3	1	9308	4	-5	1	9308	4
1575	B108S4MMP	1-B-15		-68	2	9978	4	1	2	9978	4

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1576	B1085AMMS	1 B 16		52	2	9982	1	7	1	9763	2
1577	B1085BMP	1 B 17		40	1	9988	1	1	1	9736	2
1578	B1085BMS	1 B 18		26	2	9913	4	4	2	9913	4
1579	B1085AMP	1 B 19		52	3	9982	1	1	2	9797	2
1580	B1085AMPS	1 B 20		88	4	9956	3	9	2	8335	2
1581	B1085AP	1 B 21		31	1	9981	1	3	2	6476	2
1582	B10856PIS	1 B 22		23	4	9343	4	12	4	9343	4
1583	B108P 2HHRH	1 B 23		531	4	9995	1	-25	1	9769	1
1584	B108P 2HHRD	1 B 24		586	7	9996	3	6	1	9153	1
1585	B108P 2HHRV	1 B 25	YES	0	0	1 000	1	0	0	1 0000	1
1586	B108P 11IRY	1 B 26		84	2	9941	1	2	2	9667	2
1587	B108P 11IRD	1 B 27		11	3	7593	1	-35	3	9904	2
1588	B108P 11IRH	1 B 28		302	4	9997	1	3	4	9383	2
1589	B108P 10 SFIRY	1 B 29		150	3	9993	3	1	3	9993	3
1590	B108P 10 SFIRD	1 B 30		341	2	9999	3	-23	1	9942	2
1591	B108P 10 SFIRH	1 B 31		87	3	9973	3	-10	3	9973	3
1592	B108P 10 SFIRY	1 B 32		15	2	9943	1	33	3	9856	2
1593	B108P 10 SFIRD	1 B 33		265	3	9995	1	14	3	9387	2
1594	B108P 10 SFIRH	1 B 34		18	2	9690	1	-13	1	9752	3
1595	B108P 11IRH	1 B 35		253	2	9992	4	-30	1	9918	2
1596	B108P 11IRD	1 B 36		33	2	9744	1	19	60	9180	2
1597	B108P 11IRY	1 B 37		54	2	9965	4	1	1	6231	1
1598	B108P 10 SFIRH	1 B 38		-211	3	9997	1	-25	2	9845	2
1599	B108P 10 SFIRD	1 B 39		201	2	9996	1	69	2	9978	2
1600	B108P 10 SFIRY	1 B 40		293	25	9826	1	-27	92	6648	4
1601	B108P 10 SFIRH	1 B 41		18	3	9898	1	-92	4	9971	1
1602	B108P 10 SFIRD	1 B 42		69	6	9751	1	-185	6	9987	4
1603	B108P 10 SFIRY	1 B 43		2	2	9375	1	-121	3	9993	4
1604	B108P 9MFS	1 B 44		-71	2	9993	1	4	1	9307	2
1605	APMM77C1PA	1 B 45		427	4	9998	1	-469	3	9999	2
1606	APMM77C2PA	1 B 46		-549	2	1 0000	1	-501	2	9999	2
1607	APMM77C3PA	1 B 47		520	2	1 0000	1	-415	2	9999	2
1608	APMM77C4PA	1 B 48		1001	4	1 0000	1	-78	14	9346	2
1609	APMM77C5PA	1 B 49		293	4	9996	1	-175	4	9984	4
1610	APMM77P3PAD 5	1 B 50		360	2	9999	1	248	4	9996	2
1611	APMM77P3PAD 5	1 B 51		-311	4	9997	1	-225	3	9997	2
1612	APMM77P3PAD 5	1 B 52		-314	2	9999	4	-165	1	9998	2
1613	APMM77C1PF	1 B 53		-560	4	9999	1	-86	2	9881	2
1614	APMM77C2PF	1 B 54		-584	6	9998	1	-76	4	9948	2
1615	APMM77C3PF	1 B 55		879	4	9999	4	-79	3	9563	2
1616	APMM77C4PF	1 B 56		366	5	9996	1	-266	1	9906	2
1617	APMM77C5PF	1 B 57		1003	7	9999	4	51	3	9950	2
1618	ASMZ79C135	1 B 58		880	6	9999	4	24	3	9715	2
1619	ASMZ79C127	1 B 59	YES	0	0	1 0000	1	0	0	1 0000	2
1620	H108CFF1C	1 B 60		0	2	9955	1	2	2	9198	2
1621	H95510W	0 B 1		150	2	9998	1	-53	2	9948	2
1622	H95511W	0 B 2		253	2	9998	1	-26	2	9728	2
1623	H95512W	0 B 3		176	2	9998	1	4	2	9594	2
1624	H95513W	0 B 4	YES	0	0	1 0000	1	0	0	1 0000	2
1625	H95514W	0 B 5		181	4	9992	1	8	3	9664	2
1626	H95515W	0 B 6		-162	3	9994	1	13	3	9796	2
1627	H95516W	0 B 7		-211	8	9974	1	37	6	9652	2
1628	H95517W	0 B 8		-267	2	9999	1	35	2	9955	2
1629	H95518W	0 B 9		9	5	7712	1	27	4	9756	2
1630	H95519 SP	0 B 10		31	6	9735	1	38	3	9919	2
1631	H95520W	0 B 11		-11	9	9266	4	34	4	9709	2
1632	H95521 SP	0 B 12		61	9	9801	1	34	4	9636	2
1633	H95522W	0 B 13		-23	5	9667	1	42	3	9930	2
1634	H92P9 SP(BB)	0 B 14		18	12	490E	4	7	4	9110	2
1635	H95523W	0 B 15		167	3	9990	1	3	3	9398	2
1636	H95524W	0 B 16		157	6	9957	1	11	4	9458	2
1637	H95525W	0 B 17		145	2	9991	1	-24	2	9677	2
1638	H95526W	0 B 18		137	3	9984	1	21	2	9940	2
1639	H95527W	0 B 19		141	2	9990	1	29	2	9955	2
1640	H95528W	0 B 20		137	1	9996	1	-32	2	9800	2
1641	H95529W	0 B 21		104	2	9983	1	34	2	9971	2
1642	H95530W	0 B 22	YES	0	0	1 0000	1	0	0	1 0000	2
1643	H95531W	0 B 23		81	3	9946	1	-46	2	9920	2
1644	H95532W	0 B 24		85	2	9967	1	48	2	9977	2
1645	H95533W	0 B 25		78	3	9949	1	47	2	9978	2
1646	H95534W	0 B 26	YES	0	0	1 0000	1	0	0	1 0000	2
1647	H95535W	0 B 27		6	3	9901	1	56	2	9985	2
1648	H95536 SP	0 B 28		-56	4	9969	1	61	3	9968	2
1649	H95537 SP	0 B 29		35	2	9974	1	-62	2	9958	2
1650	H95538W	0 B 30		57	2	9980	1	60	2	9986	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1651	H95S17W	O-A-31		-112	3	9991	1	63	2	9974	2
1652	H95S19W	O-A-32		-126	3	9985	4	-61	2	9975	2
1653	H80S95(BMSU)	O-A-33		-151	5	9980	1	44	8	9931	3
1654	B925MM7(BMSL)	O-A-34		-585	7	9998	1	-77	3	9981	2
1655	H83COP	O-A-35	YES	0	0	1.0000	1	0	0	1.0000	2
1656	H61COP	O-A-36	YES	0	0	1.0000	1	0	0	1.0000	2
1657	H73COP	O-A-37	YES	0	0	1.0000	1	0	0	1.0000	2
1658	H75COP	O-A-38		568	13	9987	3	-12	3	9987	3
1659	H77COP	O-A-39	YES	0	0	1.0000	1	0	0	1.0000	2
1660	H79COP	O-A-40		504	5	9998	1	-10	4	9803	2
1661	H81COP	O-A-41		456	2	9999	1	-7	2	9849	2
1662	H83COP	O-A-42	YES	0	0	1.0000	1	0	0	1.0000	2
1663	H85COP	O-A-43		406	8	9990	1	-1	8	9950	2
1664	H87COP	O-A-44		335	3	9998	1	-1	3	7860	2
1665	H91COP	O-A-45		248	5	9990	3	-5	4	9993	2
1666	H93COP	O-A-46		229	3	9993	1	10	7	8304	2
1667	H95COP	O-A-47		626	246	7201	4	-4	2	8281	2
1668	H97COP	O-A-48	YES	0	0	1.0000	1	0	0	1.0000	2
1669	H99COP	O-A-49		48	4	9705	1	2	3	7127	2
1670	H101COP	O-A-50		65	5	9849	3	-1	5	9845	2
1671	H103COP	O-A-51	YES	0	0	1.0000	1	0	0	1.0000	2
1672	H105COP	O-A-52		55	4	9769	1	-1	1	6722	2
1673	H107COP	O-A-53		-23	4	5394	4	4	2	5449	2
1674	H89COP	O-A-54	YES	0	0	1.0000	1	0	0	1.0000	2
1675	H865FF(C)	O-A-55		-13	3	9896	1	196	2	9997	2
1676	B80PMMRH	O-A-56		13	7	9934	1	-5	2	8988	2
1677	B80PMMRD	O-A-57		55	3	9845	1	58	2	9978	2
1678	B80PMMRV	O-A-58	YES	-263	4	9995	1	46	2	9955	2
1679	B80P19B18(FC)	O-A-59		-210	2	9998	1	-207	2	9998	2
1680	H96S19(D)	O-A-60	YES	-4	4	9881	1	-12	3	9472	2
1681	B92P7MMS	O-A-1		-175	8	9978	3	6	2	9491	2
1682	B92P7MMP	O-A-2		-101	8	9924	4	55	2	9972	2
1683	B925BMMS	O-A-3		-343	19	9917	4	-84	5	9917	2
1684	B925BMMP	O-A-4	YES	0	0	1.0000	1	0	0	1.0000	2
1685	B86CDMMS	O-A-5		-157	3	9996	1	6	2	9313	2
1686	B86CDMMS	O-A-6		-172	4	9983	1	7	3	9105	2
1687	B86PTMMP	O-A-7		-126	4	9978	1	-1	4	2097	2
1688	B86PTMMS	O-A-8		93	3	9968	1	16	2	8245	2
1689	B80PTMMS	O-A-9		-53	5	9847	4	19	2	9127	2
1690	B80PTMMP	O-A-10		11	5	8158	4	13	2	9726	2
1691	F82P11M	O-A-11		-82	5	9932	4	-52	5	9932	4
1692	H80P17(LF)	O-A-12		-75	6	9939	4	-89	4	9963	2
1693	B86P20(C)	O-A-13		12	4	9767	4	31	4	9767	4
1694	B86P11MMRH	O-A-14		17	6	9174	4	17	4	8440	2
1695	B86P11MMRD	O-A-15		31	4	9425	1	32	3	9900	2
1696	B86P11MMRV	O-A-16		-2	4	9367	1	22	2	9823	2
1697	B86P11MP(HSU)	O-A-17		26	13	8722	3	31	2	9890	2
1698	B86P11MP(HSL)	O-A-18		-20	3	9930	1	22	2	9647	2
1699	F86P11(C)	O-A-19		-28	2	9956	1	-19	2	8919	2
1700	B80P15P1P(BB)	O-A-20		91	2	9984	1	22	2	9919	2
1701	H80P15P14P(LF)	O-A-21		140	2	9994	1	-216	2	9998	2
1702	B86P9W(C)	O-A-22	YES	0	0	1.0000	1	0	0	1.0000	2
1703	B86P8 SP(BB)	O-A-23		-6	2	9882	1	-2	2	8984	2
1704	180P2P(C)	O-A-24		-48	3	9950	1	22	2	9934	2
1705	B86S7MMP(C)	O-A-25		-15	3	9846	1	-15	4	8300	2
1706	H85 9519P(C)	O-A-26	YES	0	0	1.0000	1	0	0	1.0000	2
1707	B80S9 SMFRH	O-A-27		-22	7	9930	1	19	8	7392	2
1708	B80S9 SMFRD	O-A-28		-29	5	9403	3	14	5	9403	3
1709	B80S9 SMFRV	O-A-29		52	2	9909	1	-11	2	9001	2
1710	B925MM7(BMSU)	O-A-30		72	3	9924	1	46	2	9956	2
1711	H80S95(SL)	O-A-31	YES	0	0	1.0000	1	0	0	1.0000	2
1712	H85 956 SP(HSU)	O-A-32		-80	2	9988	1	145	2	9997	2
1713	H85 956 SP(HSL)	O-A-33		400	4	9997	4	-37	3	9856	2
1714	H86S35(SU)	O-A-34	YES	0	0	1.0000	1	0	0	1.0000	2
1715	H86S35(SL)	O-A-35		-98	14	9528	1	25	15	8626	2
1716	H86 153 SP(HSU)	O-A-36		-61	2	9983	1	110	2	9994	2
1717	H86 153 SP(HSL)	O-A-37		-187	5	9985	1	-85	5	9918	2
1718	B86S11 9MMRH	O-A-38		24	4	9562	4	-9	4	9562	4
1719	B86S11 9MMRD	O-A-39		106	14	9701	4	-31	9	7486	2
1720	B86S11 9MMRV	O-A-40		70	3	9920	1	-8	3	7850	2
1721	H86 1517 SP(HSU)	O-A-41		-702	3	1.0000	1	58	3	9955	2
1722	H86 1517 SP(HSL)	O-A-42		-749	7	9998	1	72	5	9897	2
1723	H86 155 SP(HSU)	O-A-43		366	3	9998	1	-52	2	9953	2
1724	H86 155 SP(HSL)	O-A-44		-235	4	9994	1	116	3	9489	2
1725	H88 5519P(CU)	O-A-45		-176	3	9994	1	126	3	9990	2

TABLE B.3 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	VERTICAL LOADING ONLY				LATERAL LOADING ONLY			
				VERTICAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST	LATERAL SENSITIVITY	ERROR OF ESTIMATE	CORRELATION COEFFICIENT	FROM TEST
1726	H88 5S18P(CL)	O-A-46		-95	9	9958	4	123	9	9887	2
1727	H86 1S65(LU)	O-A-47		-242	4	9994	1	52	2	9948	2
1728	H86 1S65(LU)	O-A-48		-299	7	9988	1	75	1	9774	2
1729	H86 1P8 SP(HSU)	O-A-49		322	3	9998	1	64	4	9932	2
1730	H86 1P8 SP(HSL)	O-A-50		-220	3	9997	1	-120	7	9990	3
1731	B9257M2S(BM)	O-A-51		-148	15	9937	1	-36	5	9528	2
1732	B9257M2P(BM)	O-A-52		8	5	9078	4	-11	3	7997	2
1732	B8653MMP(BM)	O-A-53		-71	3	9978	1	5	2	6711	2
1734	B8653MMS(BM)	O-A-54		99	5	9821	1	2	5	1647	2
1735	B8653M2P(BM)	O-A-55		2	2	9905	1	4	2	8789	2
1735	B8653M2S(BM)	O-A-56		-76	2	9992	1	2	2	8521	2
1737	B8053MMS(BM)	O-A-57		-39	2	9965	1	-10	3	8268	2
1738	B8053MMP(BM)	O-A-58	YES	154	11	9847	1	44	4	9750	2
1739	B8053M2S(BM)	O-A-59		72	7	9778	3	-8	2	7879	2
1740	H89P2M2(D)	O-A-60		59	4	9803	1	-1	1	2511	2
1741	H78520P(ICU)	O-B-1		-222	3	9995	1	213	2	9999	2
1742	H78520P(IC)	O-B-2		-214	3	9995	1	218	2	9998	2
1742	B80511MMP(IC)	O-B-3		-48	3	9973	1	5	2	9548	2
1744	M80511P(IC)	O-B-4	YES	0	0	10000	1	C	C	10000	2
1745	H79 5S20P(FC)	O-B-5		-153	3	9991	1	-62	4	9886	2
1746	H79 5S20P(AC)	O-B-6		-80	2	9989	1	-51	1	9926	2
1747	H79 5S20P(ACL)	O-B-7		-58	3	9955	1	-59	4	9897	2
1748	B64CDMMP(IC)	O-B-8		-23	17	9145	1	-1	3	9049	2
1749	B5658 SMFRY(8B)	O-B-9		12	15	2749	4	-10	5	6095	2
1750	B5658 SMFRD(8B)	O-B-10		-43	9	9499	1	14	5	8671	2
1751	B5658 SMFRN(8B)	O-B-11		2	11	7981	4	-21	5	9383	2
1752	B5658 SMFRY(8B)	O-B-12		12	19	8192	4	-51	1	9765	2
1753	B5658 SMFRD(8B)	O-B-13		-49	11	9121	1	-52	5	8845	2
1754	B5658 SMFRN(8B)	O-B-14		-23	11	7694	1	-30	5	5199	2
1755	M64P85(SUA)	O-B-15		93	26	8957	3	-66	5	9837	2
1756	M64P85(SUA)	O-B-16		-67	4	9952	1	-28	3	9582	2
1757	M64P85(SUF)	O-B-17		-19	14	8885	3	-28	3	9731	2
1758	M64P85(SLF)	O-B-18	YES	-148	13	9892	1	-12	3	7919	2
1759	B64P11P(ICU)	O-B-19		43	10	8885	3	9	5	8423	2
1760	B64P11P(IC)	O-B-20		134	6	9924	1	-5	2	8990	2
1761	H61 2S20P(IC)	O-B-21		-446	5	9997	1	335	4	9997	2
1762	H61 2S20P(CL)	O-B-22	YES	0	0	10000	1	0	C	10000	2
1763	M60P9 SP(IC)	O-B-23		-357	3	9998	1	-192	2	9997	2
1764	H58 6P20P(IC)	O-B-24		-276	5	9997	4	-337	2	9999	2
1765	H61 3P20P(IC)	O-B-25		-267	3	9998	1	-319	2	9999	2
1766	H58 6P20P(IC)	O-B-26	YES	0	0	10000	1	0	0	10000	2
1767	H58 6P20P(IC)	O-B-27		-280	6	9995	4	-312	2	9999	2
1768	M59 SP6P(IC)	O-B-28		-33	4	9935	1	2	4	8636	2
1769	B8059M2P(BM)	O-B-29		25	3	9636	1	-5	1	7822	2
1770	B8498MMP(BM)	O-B-30		6	20	8771	3	-41	8	9243	2
1771	H7455P(IC)	O-B-31		-362	4	9998	1	103	6	9532	2
1772	H7355P(IC)	O-B-32		-386	4	9998	1	102	2	9992	2
1773	M6755P(IC)	O-B-33		-512	4	9999	1	123	1	9998	2
1774	M67P5P(LUC)	O-B-34		-403	2	9999	4	-105	2	9994	2
1775	M67 2P5P(LUC)	O-B-35		-432	4	9998	1	-109	2	9994	2
1776	M69P5P(LP)	O-B-36		58	4	9951	3	44	2	9963	2
1777	M60P6P(IC)	O-B-37		-452	5	9999	1	-140	2	9996	2
1778	H94520P(FC)	O-B-38		-7	4	9825	1	-22	3	9457	2
1779	M77P10 1P	O-B-39		-502	4	9999	1	180	2	9998	2
1780	H94520P(AC)	O-B-40		42	3	9714	1	-21	3	9376	2
1781	H94516 SP(ICU)	O-B-41		3	2	9858	1	-6	2	8239	2
1782	H94516 SP(ICL)	O-B-42		-35	3	9942	1	-17	3	8719	2
1783	H91P19P(IC)	O-B-43		-5	4	9851	1	21	2	9894	2
1784	M7958 SP	O-B-44		-211	3	9994	1	172	2	9997	2
1785	B44P911P	O-B-45		-83	3	9979	1	0	3	8537	2
1786	H91P19P(AC)	O-B-46		53	3	9875	1	35	2	9923	2
1787	H91P19P(FC)	O-B-47		4	6	9644	4	-31	5	9668	2
1788	H97 9P14P(LF)	O-B-48		37	4	9591	1	35	2	9635	2
1789	H101P20P(AC)	O-B-49		-88	4	9989	1	-19	3	9382	2
1790	H80P19P18(FC)	O-B-50		-242	2	9998	1	-209	2	9998	2
1791	H79 SP18P(ICU)	O-B-51		-58	3	9986	1	-212	2	9998	2
1792	H79 SP18P(CL)	O-B-52		-72	2	9991	1	-216	2	9998	2
1793	M63 9P13S(IC)	O-B-53		-380	6	9994	4	-75	4	9914	2
1794	H79 9P13P(IC)	O-B-54		28	3	9734	1	-200	2	9996	2
1795	B64P12 9P(LR)	O-B-55		-110	6	9955	1	-89	12	9688	2
1796	B64P12 9P(SC)	O-B-56		72	6	9903	1	18	4	9317	2
1797	H65P22P(IC)	O-B-57		68	7	9778	1	38	7	9032	2
1798	B64P 1MMP(IC)	O-B-58	YES	-118	2	9990	4	1	2	9990	4
1799	B64S 1MMP(IC)	O-B-59		-8	14	8423	1	-27	2	9843	2
1800	B108P 1MMP(D)	O-B-60	YES	-1	3	9943	1	-4	3	8776	2

TABLE B.5 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 60 DEGREE LAG

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT. LAT.)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT. LAT.)	MEASURED STRAIN
1	B8COMMP	9-A-1		59	( 80, 40)	51		SAME	
2	B8P4MMP	9-A-2		50	( 80, 76)	50	54	( 70, 69)	26
3	B8P7MMP	9-A-3		123	( 0, 0)	0	9	( 40, 80)	129
4	B8COMFP	9-A-4		0	( 0, 0)	0	72	( 40, 80)	0
5	B8P2MFP	9-A-5		58	( 50, 29)	41		SAME	
6	B8S4MFP	9-A-6		204	( 20, 77)	4	50	( 70, 7)	34
7	B8S7MFP	9-A-7		18	( 0, 69)	10	11	( 40, 40)	4
8	B8S2MFP	9-A-8		69	( 70, 69)	64		SAME	
9	B8COHRRH	9-A-9	YES	0	( 0, 0)	0	23	( 80, 40)	0
10	B8COHHRD	9-A-10		289	( 80, 40)	302		SAME	
11	B8COHHRV	9-A-11		34	( 70, 0)	3	33	( 0, 40)	28
12	B8P11IRV	9-A-12	YES	2	( 20, 77)	0	0	( 80, 40)	0
13	B8P11IRD	9-A-13		160	( 70, 17)	179		SAME	
14	B8P11IRH	9-A-14		33	( 70, 69)	23		SAME	
15	B8P5FFRV	9-A-15		18	( 60, 76)	192		SAME	
16	B8P5FFRD	9-A-16		149	( 70, 69)	164		SAME	
17	B8P5FFRH	9-A-17	YES	169	( 70, 69)	172		SAME	
18	B8S11IRH	9-A-18	YES	74	( 80, 40)	73		SAME	
19	B8S11IRD	9-A-19	YES	0	( 0, 0)	0		SAME	
20	B8S11IRV	9-A-20		24	( 50, 30)	14	46	( 70, 69)	22
21	B8S5FFRH	9-A-21		103	( 70, 17)	84	86	( 60, 16)	87
22	B8S5FFRD	9-A-22		179	( 0, 69)	94	122	( 50, 30)	109
23	B8S5FFRV	9-A-23		264	( 30, 75)	265	269	( 40, 80)	260
24	B8COMMS	9-A-24		219	( 80, 40)	218		SAME	
25	B8P4MMS	9-A-25	YES	0	( 0, 0)	0		SAME	
26	B8P7MMS	9-A-26		81	( 80, 40)	81		SAME	
27	B8COMFS	9-A-27		4	( 30, 79)			( 70, 74)	3
28	B8P2MFS	9-A-28		12	( 20, 77)	9	10	( 0, 64)	16
29	B8S4MMS	9-A-29		201	( 80, 40)	201		SAME	
30	B8S7MMS	9-A-30	YES	0	( 0, 0)	0		SAME	
31	B8S2MFS	9-A-31		16	( 30, 79)	0	7	( 70, 17)	9
32	M9C0S	9-A-32		30	( 70, 69)	28	28	( 80, 40)	28
33	M9P11P	9-A-33		31	( 70, 17)	28	31	( 80, 40)	23
34	M9S11P	9-A-34		26	( 80, 40)	36		SAME	
35	M11C0S	9-A-35	YES	0	( 0, 0)	0		SAME	
36	M11S11P	9-A-36		33	( 50, 79)	25	27	( 70, 69)	21
37	M13C0S	9-A-37		58	( 80, 40)	51		SAME	
38	M13P12P	9-A-38	YES	0	( 0, 0)	0		SAME	
39	M13S12P	9-A-39		33	( 20, 57)	19		SAME	
40	M15C0S	9-A-40		80	( 80, 40)	72		SAME	
41	M15S13P	9-A-41		68	( 80, 40)	57		SAME	
42	M17C0S	9-A-42		80	( 80, 40)	83		SAME	
43	M17P13P	9-A-43		48	( 70, 69)	48		SAME	
44	M17S13P	9-A-44		31	( 10, 64)	30	31	( 20, 57)	31
45	M19C0S	9-A-45		114	( 80, 40)	116		SAME	
46	M19S13P	9-A-46		63	( 0, 69)	60	62	( 20, 77)	57
47	M23C0S	9-A-47		109	( 80, 40)	112		SAME	
48	M23S13 9P	9-A-48		128	( 70, 17)	130		SAME	
49	M25P13P	9-A-49		208	( 70, 69)	209		SAME	
50	M25S13P	9-A-50		126	( 60, 16)	125		SAME	
51	M27C0S	9-A-51		119	( 10, 74)	19	96	( 80, 40)	113
52	M27S14P	9-A-52		166	( 60, 16)	154	156	( 50, 29)	156
53	M29C0S	9-A-53	YES	0	( 0, 0)	0		SAME	
54	M29P14P	9-A-54	YES	0	( 0, 0)	0		SAME	
55	M29S14P	9-A-55		177	( 40, 40)	170	173	( 50, 29)	177
56	M31C0S	9-A-56		266	( 80, 40)	259		SAME	
57	M31S14P	9-A-57		245	( 60, 16)	242		SAME	
58	H24 1S20P(C)	9-A-58		159	( 70, 17)	148		SAME	
59	F9S4P(C)	9-A-59		57	( 0, 69)	56	56	( 10, 74)	51
60	H36P18 S(D)	9-A-60		8	( 30, 79)	0	1	( 70, 17)	14
61	B16COMMP	9-A-1		121	( 80, 40)	133		SAME	
62	B16COMMS	9-A-2		203	( 80, 76)	187	219	( 80, 40)	155
63	B16P4MMP	9-A-3		134	( 80, 40)	174		SAME	
64	B16P4MMS	9-A-4	YES	0	( 0, 0)	0	6	( 80, 40)	0
65	B16P8MFP	9-A-5		147	( 80, 40)	173		SAME	
66	B16P8MMS	9-A-6		71	( 30, 49)	35	59	( 40, 80)	6
67	B16COMFP	9-A-7		48	( 50, 79)	41	63	( 80, 40)	40
68	B16COMFS	9-A-8		59	( 80, 40)	81		SAME	
69	B16P3MFP	9-A-9		126	( 20, 57)	40	41	( 0, 69)	54
70	B16P3MFS	9-A-10		164	( 50, 30)	129	222	( 80, 40)	154
71	B16COF1P	9-A-11		64	( 70, 69)	80	90	( 80, 80)	56
72	B16COF1S	9-A-12	YES	0	( 0, 0)	0	0	( 70, 69)	0
73	B16P2F1P	9-A-13		102	( 70, 69)	103	110	( 80, 40)	90
74	B16P2F1S	9-A-14		39	( 20, 77)	1	18	( 80, 40)	10
75	B16S4MMP	9-A-15		85	( 80, 40)	103		SAME	

TABLE B.5 (Continued)

CAGE NUMBER	CAGE NAME	CAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT LAT)	MEASURED STRAIN
76	B1654MMS	9-A-16		132	(-80, -40)	130		SAME	
77	B1658MMP	9-A-17	YES	84	(-50, -30)	91	107	(-70, -1)	86
78	B1658MMS	9-A-18	YES	47	(-30, -79)	46	50	(-80, -76)	25
79	B1653MFP	9-A-19		0	(0, 0)	0	4	(-80, -40)	0
80	B1653MFS	9-A-20	YES	129	(-60, -76)	111	171	(-80, -40)	117
81	B1652FIP	9-A-21		92	(-70, -1)	111	123	(-80, -40)	88
82	B1652FIS	9-A-22		102	(-50, -40)	108		SAME	
83	B16COHHRH	9-A-23		47	(-0, -65)	23	40	(-70, -69)	5
84	B16COHHRD	9-A-24		50	(-20, -57)	23	50	(-80, -40)	
85	B16COHHRV	9-A-25	YES	0	(0, 0)	0	7	(-80, -40)	0
86	B16P311RV	9-A-26		117	(-40, -80)	69	111	(-80, -40)	85
87	B16P311RD	9-A-27		124	(-70, -69)	96	114	(-80, -40)	108
88	B16P311RH	9-A-28		166	(-70, -1)	151	183	(-80, -40)	156
89	B16P7 SFFRV	9-A-29		638	(-80, -40)	661		SAME	
90	B16P7 SFFRD	9-A-30	YES	0	(0, 0)	0	4	(-80, -40)	0
91	B16P7 SFFRH	9-A-31		318	(-80, -40)	295		SAME	
92	B16S311RH	9-A-32		172	(-80, -40)	168		SAME	
93	B16S311RD	9-A-33		176	(-80, -40)	196		SAME	
94	B16S311RV	9-A-34		158	(-70, -1)	151	170	(-80, -40)	135
95	B16S7 SFFRV	9-A-35		316	(-80, -40)	311	34	(-80, -76)	231
96	B16S7 SFFRD	9-A-36		219	(-60, -16)	249	307	(-80, -40)	213
97	B16S7 SFFRV	9-A-37		412	(-80, -40)	465		SAME	
98	F3CCNA	9-A-38		50	(-80, -40)	28	29	(-70, -1)	46
99	F13CCNA	9-A-39		26	(-70, -1)	21	24	(-80, -40)	26
100	F17COP	9-A-40		172	(-80, -40)	175		SAME	
101	F213COP	9-A-41		129	(-80, -40)	139		SAME	
102	F25CCNA	9-A-42		56	(0, 0)	0	19	(-80, -40)	45
103	F28CCNA	9-A-43		24	(-80, -40)	27		SAME	
104	F9COP	9-A-44	YES	0	(0, 0)	0	3	(-80, -40)	0
105	F13COP	9-A-45		29	(-80, -40)	25	25	(-70, -1)	25
106	F17CCNA	9-A-46		16	(-70, -69)	8	5	(-80, -40)	12
107	F213CCNA	9-A-47		33	(-70, -69)	17	21	(-80, -40)	9
108	H9COP	9-A-48		65	(-80, -40)	57		SAME	
109	H11COP	9-A-49		76	(-70, -69)	47	53	(-80, -40)	59
110	H13COP	9-A-50	YES	0	(0, 0)	0	5	(-80, -40)	0
111	H15COP	9-A-51		64	(-0, -0)	0	3	(-70, -74)	-11
112	H17COP	9-A-52		255	(-50, -30)	5	13	(-70, -69)	18
113	H19COP	9-A-53	YES	0	(0, 0)	0	8	(-80, -40)	0
114	H23COP	9-A-54		142	(-80, -40)	192		SAME	
115	H25COP	9-A-55		193	(-80, -40)	199		SAME	
116	H27COP	9-A-56		269	(-80, -40)	295		SAME	
117	H29COP	9-A-57		355	(-80, -40)	360		SAME	
118	H31COP	9-A-58		422	(-80, -40)	426		SAME	
119	H47COP	9-A-59		545	(-80, -40)	556		SAME	
120	H125F S101	9-A-60		12	(-10, -74)	1	3	(-70, -69)	6
121	B24COMFP	9-B-1		69	(-30, -40)	81		SAME	
122	B24COMMS	9-B-2		235	(-70, -69)	186	222	(-80, -40)	188
123	B24SAMFP	9-B-3		35	(-70, -1)	30		SAME	
124	B24P4MMS	9-B-4	YES	0	(0, 0)	0		SAME	
125	B24P7MMP	9-B-5		46	(-70, -69)	35	37	(-80, -40)	38
126	B24P7MMS	9-B-6		77	(-10, -64)	62	62	(-20, -57)	75
127	B24COMFP	9-B-7		24	(-70, -69)	28	33	(-80, -40)	22
128	B24COMFS	9-B-8		19	(-0, -69)	5	6	(-60, -16)	11
129	B24SAMFP	9-B-9		32	(-0, -69)	13	13	(-30, -79)	22
130	B24PMFS	9-B-10		114	(-40, -80)	95	127	(-80, -40)	91
131	B24COP1P	9-B-11		49	(-70, -69)	47	51	(-80, -40)	33
132	B24COP1S	9-B-12	YES	0	(0, 0)	0	0	(-80, -40)	0
133	B24S3F1P	9-B-13		50	(-70, -1)	33		SAME	
134	B24P3F1S	9-B-14		35	(-40, -40)	30	33	(-70, -1)	36
135	B24P4MMP	9-B-15		54	(-80, -40)	72		SAME	
136	B24SAMMS	9-B-16		142	(-80, -40)	157		SAME	
137	B24P7MMP	9-B-17	YES	67	(-80, -40)	83		SAME	
138	B24S7MMS	9-B-18	YES	70	(-30, -79)	54	66	(-70, -69)	34
139	B24PSMFP	9-B-19		0	(0, 0)	0		SAME	
140	B24SAMFS	9-B-20	YES	67	(-80, -40)	40		SAME	
141	B24P3F1P	9-B-21		87	(-80, -40)	78		SAME	
142	B24S3F1S	9-B-22		34	(-70, -69)	41		SAME	
143	B24COHHRH	9-B-23		148	(-80, -40)	154		SAME	
144	B24COHHRD	9-B-24		77	(-70, -1)	62		SAME	
145	B24COHHRV	9-B-25	YES	0	(0, 0)	0		SAME	
146	B24P411RH	9-B-26		254	(-70, -1)	247	248	(-80, -40)	250
147	B24P411RD	9-B-27		81	(-70, -1)	79		SAME	
148	B24P411RV	9-B-28		91	(-70, -69)	90	99	(-80, -40)	79
149	B24P9FFRV	9-B-29		327	(-70, -69)	383	383	(-80, -40)	315
150	B24P9FFRD	9-B-30	YES	0	(0, 0)	0		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
151	B2499FRH	9-B-31		175	(-80, -40)	195		SAME	
152	B24541JRH	9-B-32		321	(-80, -40)	313		SAME	
153	B24541JRD	9-B-33		79	(-80, -40)	16	31	(-40, -80)	61
154	B24541JRV	9-B-34		56	(70, 1)	57	60	(80, 40)	38
155	L2459FFRH	9-B-35		164	(-80, -40)	151		SAME	
156	B2459FFRD	9-B-36		59	(70, 1)	77		SAME	
157	B2459FFRV	9-B-37		180	(80, 40)	191		SAME	
158	I25COP	9-B-38		267	(80, 40)	271		SAME	
159	I29COP	9-B-39		225	(80, 40)	234		SAME	
160	B32CO IMZP(C)	9-B-40		199	(-80, -40)	193		SAME	
161	M31 9COP(C)	9-B-41		438	(-80, -40)	446		SAME	
162	M22 5S9 SP(C)	9-B-42		191	(-70, -1)	187		SAME	
163	M23P 3P(C)	9-B-43		159	(-80, -40)	163		SAME	
164	M22 SP 3P(C)	9-B-44		146	(-80, -40)	151		SAME	
165	M12 SP 4P(C)	9-B-45		47	(-80, -40)	40		SAME	
166	M12 SP 5P(C)	9-B-46		39	(-80, -40)	41		SAME	
167	M12 SP 6P(C)	9-B-47		63	(-70, -69)	60	62	(-80, -40)	61
168	B24P11 6P(C)	9-B-48		101	(80, 40)	122	123	(70, 69)	95
169	H23 9S8 SP(HSL)	9-B-49		198	(-60, 16)	192	203	(-70, -1)	198
170	H23 9S8 SP(HSU)	9-B-50		295	(80, 40)	306		SAME	
171	H23 9P8 SP(HSL)	9-B-51		266	(-70, -69)	259	268	(-80, -40)	248
172	H23 9P8 SP(HSU)	9-B-52		287	(80, 40)	300		SAME	
173	M6DS9P(C)	9-B-53	YES	0	(0, 0)	0		SAME	
174	M48 1P6P(C)	9-B-54		339	(-70, -69)	327		SAME	
175	B48S5MMS(BM)	9-B-55		40	(50, 79)	51	60	(70, 69)	27
176	B48S5MZP(BM)	9-B-56		67	(-50, 29)	83	102	(-80, -40)	62
177	B48S5MZS(BM)	9-B-57		60	(0, 0)	0	74	(-80, -40)	18
178	B48S6 IMZP(BM)	9-B-58		30	(-20, 57)	21	37	(-70, -1)	18
179	M49 5S9P(JF)	9-B-59		275	(-70, -1)	-2	128	(80, 80)	-27
180	H28P17 5(D)	9-B-60		12	(-20, -77)	0	1	(70, 69)	-5
181	B40C07P	8--1	YES	1	(0, -69)	-1	1	(30, 79)	-1
182	B40C07S	8--2	YES	1	(0, 0)	0	0	(70, 1)	-1
183	B40P47P	8--3	YES	2	(20, 77)	0	0	(-60, -76)	0
184	B40P47S	8--4	YES	0	(0, 0)	0	0	(70, 69)	0
185	B40P47P	8--5	YES	0	(0, 0)	0	0	(80, 40)	0
186	B40P47S	8--6	YES	0	(0, 0)	0	1	(80, 40)	0
187	B40C02P	8--7	YES	2	(40, -40)	0	0	(60, -16)	0
188	B40C02S	8--8	YES	1	(0, 0)	0	0	SAME	
189	B40P42P	8--9	YES	0	(0, 0)	0	0	(-80, -40)	0
190	B40P42S	8--10	YES	1	(0, -69)	0	0	(-60, 16)	1
191	B40P42P	8--11	YES	4	(0, 69)	0	0	(-20, 57)	4
192	B40P42S	8--12	YES	0	(0, 0)	0	1	(-70, -69)	0
193	B40CDM2P	8--13	YES	0	(0, 0)	0	0	(80, 40)	0
194	B40CDM2S	8--14	YES	2	(60, -16)	0	0	(-70, -1)	0
195	B40CDMFP	8--15	YES	5	(0, 69)	1	0	SAME	
196	B40COMFS	8--16	YES	0	(0, 0)	0	1	(-80, -40)	0
197	B40PTMFP	8--17	YES	0	(0, 0)	0	0	(80, 40)	0
198	940PTMFS	8--18	YES	0	(0, 0)	0	1	(-80, -40)	0
199	B40COF1P	8--19	YES	0	(0, 0)	0	0	SAME	
200	B40COF1S	8--20	YES	0	(0, 0)	0	0	(80, 40)	0
201	B40P6F1P	8--21	YES	0	(0, 0)	0	0	(70, 69)	0
202	B40P6F1S	8--22	YES	2	(10, 74)	0	0	(20, 77)	0
203	B40S4TTP	8--23	YES	0	(0, 0)	0	0	(-80, -40)	0
204	B40S4TTS	8--24	YES	0	(0, 0)	0	0	SAME	
205	B40S8TTP	8--25	YES	0	(0, 0)	0	0	SAME	
206	B40S8TTS	8--26	YES	2	(50, 79)	0	1	(-80, -40)	0
207	B40S42TP	8--27	YES	0	(0, 0)	0	0	SAME	
208	B40S42TS	8--28	YES	1	(0, -69)	0	0	(70, 69)	1
209	B40S82TP	8--29	YES	0	(0, 0)	0	0	(20, -57)	0
210	B40S82TS	8--30	YES	0	(0, 0)	0	0	(80, 40)	0
211	B40S4MFP	8--31	YES	2	(50, -30)	0	0	(80, 40)	2
212	B40S4MFS	8--32	YES	0	(0, 0)	0	0	SAME	
213	B40S6F1P	8--33	YES	2	(10, 74)	0	0	(20, 77)	0
214	B40S6F1S	8--34	YES	0	(0, 0)	0	1	(80, 40)	0
215	B40COHHRH	8--35	YES	0	(0, 0)	0	0	(-80, -40)	0
216	B40COHHRG	8--36	YES	0	(0, 0)	0	0	(80, 40)	0
217	B40COHHRV	8--37	YES	0	(0, 0)	0	1	(30, -49)	0
218	B40P61JRH	8--38	YES	2	(-20, 57)	0	0	(80, 40)	0
219	B40P61JRD	8--39	YES	1	(30, -49)	0	0	(50, 79)	-1
220	B40P61JRV	8--40	YES	2	(0, 0)	0	1	(-80, -40)	0
221	B40P9F1RV	8--41	YES	1	(0, 0)	0	1	(70, 69)	-1
222	B40P9F1RD	8--42	YES	1	(0, 0)	0	0	(-80, -40)	-1
223	B40P9F1RH	8--43	YES	2	(10, -64)	0	0	(80, 40)	0
224	B40P12FFRV	8--44	YES	0	(0, 0)	0	0	(80, 40)	0
225	B40P12FFRD	8--45	YES	0	(0, 0)	0	1	(80, 40)	0



TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT. LAT)	MEASURED STRAIN
226	B40P12FFRH	B-A-46	YES	1	( 0, 0)	C	0	( 80, -40)	0
227	B40S611RV	B-A-47	YES	0	( 0, -69)	0	0	( 80, -40)	C
228	B40S611RD	B-A-48	YES	2	( 0, 0)	0	0	( 70, -69)	0
229	B40S611RH	B-A-49	YES	2	( 60, -16)	C	0	( 80, -40)	2
230	B40S9F1RH	B-A-50	YES	2	( 60, -16)	0	0	( 80, -40)	0
231	B40S9F1RD	B-A-51	YES	2	( 0, 0)	C	0	( 70, -11)	0
232	B40S9F1RV	B-A-52	YES	0	( 0, 0)	0		SAME	
233	B40S12FFRH	B-A-53	YES	C	( 0, 0)	C	0	( 80, -40)	C
234	B40S12FFRD	B-A-54	YES	C	( 0, 0)	C	0	( 70, -74)	C
235	B40S12FFRV	B-A-55	YES	C	( 0, 0)	0		SAME	
236	B48CDHMP	B-A-56	YES	1	( 30, 45)	0	1	( 70, 69)	1
237	B48S8 4MFRV	B-A-57	YES	2	( 50, 30)	0	0	( 80, -40)	C
238	B48S8 4MFRD	B-A-58	YES	0	( 0, 0)	0	0	( 70, -11)	C
239	B48S8 4MFRH	B-A-59	YES	0	( 0, 0)	C	0	( 40, -40)	C
240	W46P22T1D1	B-A-60	YES	1	( 0, 0)	0	0	( 80, -40)	1
241	B48CDYTP	B-A-1	YES	1	( 10, -64)	0	1	( 80, -76)	1
242	B48CDTTS	B-A-2	YES	1	( 0, 0)	0	1	( 70, -11)	1
243	B48P4TTP	B-A-3	YES	2	( 40, -40)	C	0	( 70, -11)	C
244	B48P4TTS	B-A-4	YES	0	( 0, 0)	0	1	( 80, -40)	C
245	B48P8TTP	B-A-5	YES	2	( 10, 74)	0	0	( 20, -77)	C
246	B48P8TTS	B-A-6	YES	1	( 0, -69)	0	1	( 70, -11)	C
247	B48CD2TP	B-A-7	YES	0	( 0, 0)	C	0	( 80, -40)	C
248	B48CD2TS	B-A-8	YES	1	( 40, -40)	C	0	( 80, -40)	1
249	B48P4ZTP	B-A-9	YES	0	( 0, 0)	0	0	( 80, -40)	C
250	B48P4ZTS	B-A-10	YES	1	( 0, 0)	C	1	( 50, 29)	1
251	B48P8ZTP	B-A-11	YES	C	( 0, 0)	C	C	( 70, -69)	C
252	B48P8ZTS	B-A-12	YES	0	( 0, 0)	C	0	( 80, -40)	C
253	B48COMZP	B-A-13	YES	C	( 0, 0)	C	0	( 70, 65)	C
254	B48COMZS	B-A-14	YES	2	( 10, 74)	0	0	( 10, 64)	C
255	B48COMFP	B-A-15	YES	C	( 0, 0)	0	0	( 80, -40)	C
256	B48COMFS	B-A-16	YES	0	( 0, 0)	C	0	( 80, -40)	C
257	B48P6MFP	B-A-17	YES	0	( 0, 0)	C	0	( 80, -40)	C
258	B48P6MFS	B-A-18	YES	2	( 0, 0)	C	0	( 80, -40)	2
259	B48CDF1P	B-A-19	YES	0	( 0, 0)	0		SAME	
260	B48CDF1S	B-A-20	YES	0	( 0, 0)	0	C	( 70, 69)	2
261	B48P6F1P	B-A-21	YES	0	( 0, 0)	0	C	( 80, -40)	0
262	B48P6F1S	B-A-22	YES	0	( 0, 0)	C	0	( 70, -69)	0
263	B48S4TTP	B-A-23	YES	0	( 0, 0)	C	0	( 80, -40)	C
264	B48S4TTS	B-A-24	YES	C	( 0, 0)	0		SAME	
265	B48S8YTP	B-A-25	YES	0	( 0, 0)	C		SAME	
266	B48S8YTS	B-A-26	YES	0	( 0, 0)	C	C	( 80, -40)	C
267	B48S8ZTP	B-A-27	YES	0	( 0, 0)	C		SAME	
268	B48S8ZTS	B-A-28	YES	0	( 0, 0)	0	C	( 70, 69)	0
269	B48S8ZTP	B-A-29	YES	0	( 0, 0)	0		SAME	
270	B48S8ZTS	B-A-30	YES	0	( 0, 0)	0	0	( 80, -40)	C
271	B48S6MFP	B-A-31	YES	1	( 0, 0)	C	0	( 70, -69)	1
272	B48S6MFS	B-A-32	YES	0	( 0, 0)	0		SAME	
273	B48S6F1P	B-A-33	YES	0	( 0, 0)	0	1	( 80, -40)	0
274	B48S6F1S	B-A-34	YES	1	( 0, -69)	0	0	( 70, 69)	1
275	B48COHHRH	B-A-35	YES	0	( 0, 0)	0	1	( 70, -69)	1
276	B48COHHRD	B-A-36	YES	0	( 0, 0)	0	0	( 80, -76)	0
277	B48COHHRV	B-A-37	YES	0	( 0, 0)	0	0	( 70, 69)	0
278	B48P711RV	B-A-38	YES	2	( -20, 57)	0	0	( 40, 40)	0
279	B48P711RD	B-A-39	YES	2	( 60, 76)	0	0	( 70, 69)	0
280	B48P711RH	B-A-40	YES	0	( 0, 0)	0	0	( 20, 77)	0
281	B48P10F1RV	B-A-41	YES	1	( 0, -69)	0	0	( 70, 69)	1
282	B48P10F1RD	B-A-42	YES	2	( 0, -69)	0	0	( 80, 40)	0
283	B48P10F1RH	B-A-43	YES	2	( 50, -30)	0	0	( 80, 40)	C
284	B48P12FFRV	B-A-44	YES	0	( 0, 0)	0	0	( 40, -40)	C
285	B48P12FFRD	B-A-45	YES	0	( 0, 0)	0	0	( 80, -40)	0
286	B48P12FFRH	B-A-46	YES	0	( 0, 0)	0	0	( 80, -40)	0
287	B48S711RH	B-A-47	YES	1	( 0, -69)	0	0	( 80, -40)	1
288	B48S711RD	B-A-48	YES	0	( 0, 0)	0	0	( 60, -76)	0
289	B48S711RV	B-A-49	YES	2	( 20, 77)	0	0	( 80, 40)	0
290	B48S10F1RH	B-A-50	YES	0	( 0, 0)	0	1	( 80, -40)	0
291	B48S10F1RD	B-A-51	YES	2	( 0, -69)	0	0	( 80, -40)	0
292	B48S10F1RV	B-A-52	YES	0	( 0, 0)	0		SAME	
293	B48S1211RH	B-A-53	YES	0	( 0, 0)	0	C	( 10, -74)	0
294	B48S1211RD	B-A-54	YES	1	( 0, 0)	0	1	( 80, 40)	1
295	B48S1211RV	B-A-55	YES	0	( 0, 0)	0		SAME	
296	H48 1S2DP(C)	B-A-56	YES	3	( 50, -30)	-2	3	( 80, -40)	1
297	B48S13HMS(C)	B-A-57	YES	1	( 0, 0)	0	0	( 80, -40)	1
298	B48S911P(C)	B-A-58	YES	0	( 0, -69)	0	0	( 80, -40)	0
299	B56P4MS(C)	B-A-59	YES	4	( 0, -69)	0	1	( 70, 69)	4
300	B40P1(DK)	B-A-60	YES	1	( 10, -64)	0	0	( 80, 40)	1

TABLE B.5 (Continued)

CAGE NUMBER	CAGE NAME	CAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
301	M30 4P10W	8-B-1	YES	8	(-20, -77)	0	1	(-80, -40)	0
302	M30 4P10 SP	8-B-2	YES	1	(20, -57)	0	0	(80, 40)	-1
303	M30 4P11W	8-B-3	YES	2	(10, -64)	0	0	(-50, 29)	0
304	M30 4P11 SP	8-B-4	YES	2	(30, -49)	0	0	(-20, -77)	0
305	M30 4P12W	8-B-5	YES	1	(10, -64)	0	1	(70, 69)	1
306	M30 4P13W	8-B-6	YES	0	(0, 0)	0	0	(20, 77)	0
307	M31 2P10W	8-B-7	YES	2	(30, -49)	0	0	(80, 40)	-2
308	M31 2P10 SPRL	8-B-8	YES	5	(-50, 29)	0	0	(-80, -40)	-1
309	M31 2P10 SPRD	8-B-9	YES	2	(70, 1)	0	0	(60, 76)	0
310	M31 2P10 SPRH	8-B-10	YES	1	(30, -49)	0	0	(70, 69)	1
311	M31 2P11W	8-B-11	YES	2	(0, -69)	0	0	(70, 69)	0
312	M31 2P11 SP	8-B-12	YES	2	(40, 80)	0	0	(10, -64)	0
313	M31 2P12W	8-B-13	YES	12	(80, 40)	0	0	(20, 77)	0
314	M31 2P13W	8-B-14	YES	2	(30, -49)	0	0	(80, 40)	0
315	M31 2P14W	8-B-15	YES	0	(0, 0)	0	0	(80, 40)	0
316	B40P8MHRH(BB)	8-B-16	YES	2	(0, 0)	0	1	(70, 69)	2
317	B32P10MHP	8-B-17	YES	8	(-20, -77)	0	0	(80, 40)	0
318	B40P8MHRD(BB)	8-B-18	YES	1	(20, -57)	0	1	(-70, -1)	1
319	B32P10 SMMP	8-B-19	YES	0	(0, 0)	0		SAME	0
320	B40P8MHRV(BB)	8-B-20	YES	0	(0, 0)	0	0	(-80, -40)	0
321	M31 8P11 ZPRH	8-B-21	YES	5	(30, 79)	0	0	(80, 40)	1
322	M31 8P11 ZPRD	8-B-22	YES	0	(0, 0)	0	0	(20, 77)	0
323	M31 8P11 ZPRL	8-B-23	YES	6	(-20, -77)	0	0	(-40, 40)	0
324	M31 8P11 SP	8-B-24	YES	0	(0, 0)	0		SAME	0
325	M31 8P12W	8-B-25	YES	0	(0, 0)	0		SAME	0
326	M31 8P13W	8-B-26	YES	5	(-50, 29)	1	1	(-20, 57)	-3
327	M31 8P14W	8-B-27	YES	0	(0, 0)	0		SAME	0
328	M32 4P10W	8-B-28	YES	2	(0, 0)	0	0	(40, -40)	0
329	M32 4P10 SP	8-B-29	YES	0	(0, 0)	0	0	(80, 40)	0
330	M32 4P10 7P	8-B-30	YES	0	(0, 0)	0	0	(-80, -40)	0
331	M32 4P11 1P	8-B-31	YES	1	(10, -64)	0	0	(70, 69)	1
332	M32 4P11 3P	8-B-32	YES	0	(0, 0)	0		SAME	0
333	M32 4P11 SPRH	8-B-33	YES	2	(30, -49)	0	0	(70, 69)	0
334	M32 4P11 SPRD	8-B-34	YES	0	(0, 0)	0	0	(80, 40)	-2
335	M32 4P11 SPRL	8-B-35	YES	0	(0, 0)	0	0	(70, 69)	0
336	M32 4P12W	8-B-36	YES	2	(70, 1)	0	0	(80, 40)	0
337	M32 4P13W	8-B-37	YES	2	(30, 79)	0	0	(40, 80)	0
338	M32 4P14W	8-B-38	YES	3	(-50, 29)	0	0	(-40, -80)	-1
339	M31 2S11W	8-B-39	YES	2	(60, 76)	0	0	(70, 69)	0
340	M31 2S12W	8-B-40	YES	0	(0, 0)	0	0	(70, 69)	0
341	M31 2S13W	8-B-41	YES	1	(10, -64)	0	0	(20, -57)	-1
342	M31 2S14W	8-B-42	YES	2	(60, -16)	0	0	(80, 40)	0
343	M31 8S11W	8-B-43	YES	3	(70, 1)	0	0	(80, 40)	-7
344	M31 8S11 ZPRL	8-B-44	YES	8	(-50, 29)	0	0	(70, 69)	0
345	M31 8S11 ZPRD	8-B-45	YES	0	(0, 0)	0	0	(80, 40)	0
346	M31 8S11 ZPRH	8-B-46	YES	0	(0, 0)	0	0	(-80, -40)	0
347	M31 8S12W	8-B-47	YES	5	(-20, -77)	0	0	(-80, -40)	1
348	M31 8S13W	8-B-48	YES	2	(70, 1)	0	0	(70, 69)	0
349	M31 8S14W	8-B-49	YES	16	(-20, -77)	0	0	(-80, -40)	0
350	M32 6S10W	8-B-50	YES	17	(-50, 29)	0	0	(70, 69)	-1
351	M32 6S10 7P	8-B-51	YES	2	(80, 40)	0		SAME	0
352	M32 6S11 3P	8-B-52	YES	0	(0, 0)	0		SAME	0
353	M32 6S12W	8-B-53	YES	2	(0, -69)	0	0	(-80, -40)	0
354	M32 6S13W	8-B-54	YES	1	(30, -49)	0	1	(60, 40)	-1
355	M32 6S14W	8-B-55	YES	0	(0, 0)	0		SAME	0
356	H24 1S17 SP(HSL)	8-B-56	YES	3	(70, 1)	0	1	(-50, 79)	1
357	H24 1S17 SP(HSU)	8-B-57	YES	3	(40, 80)	-1	1	(-70, -69)	-1
358	H24 2S20 SP(HSL)	8-B-58	YES	4	(-50, 29)	0	0	(-70, -1)	0
359	H24 2S20 SP(HSU)	8-B-59	YES	4	(40, -40)	0	0	(-60, -76)	0
360	W52P22T10	8-B-60	YES	1	(0, 0)	0	0	(30, 79)	1
361	M21P13 SP	7- - 1		390	(-80, -40)	-12	25	(40, 80)	-173
362	M21P12W	7- - 2		40	(-40, -80)	2	4	(-80, -40)	2
363	M21P4W	7- - 3		205	(-70, -69)	179	185	(-80, -40)	202
364	M21P2W	7- - 4		171	(-80, -40)	173		SAME	173
365	M21CDW	7- - 5	YES	0	(0, 0)	0		SAME	0
366	M21S2W	7- - 6		154	(-50, -79)	75	143	(-80, -40)	135
367	M21S4W	7- - 7		187	(-80, -40)	179		SAME	179
368	M21S6W	7- - 8		133	(-70, -1)	133		SAME	133
369	M21S8W	7- - 9		132	(-70, -1)	135		SAME	135
370	M21S10W	7- - 10		106	(-60, 16)	108	109	(-70, -1)	104
371	M21S11 SP	7- - 11		100	(-70, -1)	100		SAME	100
372	M21S12W	7- - 12		73	(-60, 40)	71		SAME	71
373	M21S12 SP	7- - 13		84	(-60, 16)	86	89	(-40, 40)	60
374	M21S13W	7- - 14		82	(-40, 40)	78	80	(-50, 29)	82
375	M21S13 SP	7- - 15		94	(-20, 57)	67	70	(0, 69)	64

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
376	H16 2S1SP(CU)	7- -16		96	(-70, -1)	93		SAME	
377	H21CDW	7- -17		142	(-80, 40)	139		SAME	
378	H21S2W	7- -18		152	(-80, 40)	146		SAME	
379	H21P2W	7- -19		123	(-80, 40)	124		SAME	
380	H21S5W	7- -20		127	(-80, 40)	130		SAME	
381	H21S7W	7- -21		88	(-70, 69)	97	97	(-80, 40)	
382	H21P7W	7- -22		84	(-60, -16)	52	55	(-70, -1)	
383	H21S9W	7- -23		83	(-70, 69)	82		SAME	
384	H21S11W	7- -24		93	(-70, -1)	91	92	(-60, -16)	
385	H21P11W	7- -25		50	(-60, 16)	53	54	(-50, -30)	
386	H21S13W	7- -26		91	(-70, 69)	85		SAME	
387	H21S13 SP	7- -27		67	(-40, 80)	67		SAME	
388	H21P13 SP	7- -28		75	(-50, -79)	74		SAME	
389	H21S14W	7- -29		424	(-40, 40)	18	64	(-80, 76)	
390	H21S16W	7- -30		64	(-30, 49)	62	63	(-40, 40)	
391	H21P16W	7- -31		130	(-70, -69)	134		SAME	
392	H21S18W	7- -32		78	(-50, 79)	78		SAME	
393	H21P18W	7- -33		165	(-70, -69)	167	85	(-70, 69)	
394	T33CDW	7- -34		34	(-80, -40)	33		SAME	
395	T35CDW	7- -35		30	(-50, -79)	-18	27	(-80, 40)	
396	T37CDW	7- -36		300	(-10, 74)	-11	18	(-60, -16)	
397	T39CDW	7- -37		296	(-0, 0)	0	20	(-80, 40)	
398	T41CDW	7- -38		118	(-30, 79)	1	26	(-70, -1)	
399	T43CDW	7- -39		16	(-70, -1)	10	12	(-80, 40)	
400	T45CDW	7- -40		7	(-70, -69)	5	6	(-80, 40)	
401	T47CDW	7- -41		7	(-70, -1)	8	8	(-80, 40)	
402	T33CDW	7- -42		25	(-80, -40)	27		SAME	
403	T35CDW	7- -43		38	(-80, -40)	38		SAME	
404	T37CDW	7- -44		94	(-80, -40)	96		SAME	
405	T39CDW	7- -45		143	(-80, -40)	142		SAME	
406	T41CDW	7- -46		0	(-0, 0)	0	179	(-80, 40)	
407	T43CDW	7- -47		224	(-80, -40)	227		SAME	
408	T45CDW	7- -48		283	(-80, -40)	283		SAME	
409	T47CDW	7- -49		415	(-80, -40)	344		SAME	
410	H33CDW	7- -50		266	(-80, -40)	226		SAME	
411	H35CDW	7- -51		304	(-80, -40)	319		SAME	
412	H37CDW	7- -52	YES	0	(-0, 0)	0		SAME	
413	H39CDW	7- -53	YES	0	(-0, 0)	0		SAME	
414	H41CDW	7- -54	YES	0	(-0, 0)	0		SAME	
415	H43CDW	7- -55	YES	0	(-0, 0)	0		SAME	
416	H45CDW	7- -56	YES	0	(-0, 0)	0		SAME	
417	H47CDW	7- -57	YES	0	(-0, 0)	0		SAME	
418	B40S8MMW(C)	7- -58	YES	0	(-0, 0)	0		SAME	
419	B40S12HMP(C)	7- -59	YES	0	(-0, 0)	0		SAME	
420	B16P12(D0)	7- -60	YES	0	(-0, 0)	0		SAME	
421	I33 3COP	7-A- 1		190	(-80, 40)	202		SAME	
422	I37COP	7-A- 2		308	(-80, 40)	299		SAME	
423	I41COP	7-A- 3		323	(-80, 40)	326		SAME	
424	I45 3COP	7-A- 4		296	(-80, 40)	303		SAME	
425	F33 3COW	7-A- 5		28	(-60, 16)	16	21	(-80, 40)	
426	F37COW	7-A- 6		22	(-70, -69)	12	14	(-80, 40)	
427	F41COW	7-A- 7		29	(-0, -69)	-2	9	(-80, 40)	
428	F45 3COW	7-A- 8		13	(-80, -40)	8		SAME	
429	H33COP	7-A- 9		469	(-80, 40)	475		SAME	
430	H35COP	7-A-10	YES	0	(-0, 0)	0		SAME	
431	H37COP	7-A-11		447	(-80, 40)	448		SAME	
432	H39COP	7-A-12		472	(-80, 40)	485		SAME	
433	H41COP	7-A-13		515	(-80, 40)	511		SAME	
434	H43COP	7-A-14	YES	0	(-0, 0)	0		SAME	
435	H45COP	7-A-15	YES	0	(-0, 0)	0		SAME	
436	H21COP	7-A-16	YES	0	(-0, 0)	0		SAME	
437	M33S11 1P	7-A-17		232	(-70, -1)	220		SAME	
438	M33P11 1P	7-A-18		250	(-80, -40)	254	256	(-70, -69)	
439	M35S11 1P	7-A-19		253	(-70, -1)	250		SAME	
440	M37S11 1P	7-A-20		249	(-70, -1)	242		SAME	
441	M37P11 1P	7-A-21		432	(-60, -76)	378	404	(-70, -69)	
442	M39S11 1P	7-A-22		366	(-40, 40)	25	32	(-70, -1)	
443	M41S11 1P	7-A-23		249	(-70, -1)	248		SAME	
444	M41P11 1P	7-A-24		431	(-70, -69)	428		SAME	
445	M43S11 1P	7-A-25		258	(-70, -1)	254		SAME	
446	M45S11 1P	7-A-26		263	(-70, -1)	259		SAME	
447	M45P11 1P	7-A-27		501	(-70, -69)	500		SAME	
448	M47S11 1P	7-A-28		165	(-40, 40)	163		SAME	
449	M33S14P	7-A-29		269	(-70, -1)	263	264	(-60, 16)	
450	M33P14P	7-A-30	YES	0	(-0, 0)	0		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
451	M35514P	7-A-31		269	(-60, 16)	267		SAME	
452	M37514P	7-A-32		267	(-50, 29)	244	249	(-60, 16)	265
453	M37P14P	7-A-33		436	(-70, -69)	170	199	(-40, -80)	361
454	M39514P	7-A-34		316	(-40, 40)	191	208	(-60, 16)	117
455	M41514P	7-A-35		491	(0, 0)	0	185	(-70, 1)	18
456	M41P14P	7-A-36		347	(-10, -74)	175	330	(-70, 69)	297
457	M43514P	7-A-37		744	(-60, 16)	246		SAME	
458	M45514P	7-A-38		260	(-40, 40)	263	270	(-50, 29)	254
459	M45P14P	7-A-39	YES	0	(0, 0)	0		SAME	
460	M47514P	7-A-40		309	(-40, 40)	273	283	(-60, 16)	276
461	W32 15M20 1RV	7-A-41		175	(-60, -16)	155	184	(-80, 40)	145
462	W32 15M20 1RD	7-A-42		500	(-80, -40)	494		SAME	
463	W32 15M20 1RL	7-A-43		324	(-70, -1)	314		SAME	
464	W32 15ZTO 1P	7-A-44		121	(0, 69)	-25	31	(-50, 79)	-31
465	W355M20 5P	7-A-45		285	(-70, -1)	288		SAME	
466	W355M22W	7-A-46		235	(-70, -1)	211		SAME	
467	W355ZM3 9P	7-A-47		261	(-80, -40)	261		SAME	
468	W355ZTO 1P	7-A-48		214	(-80, -40)	215		SAME	
469	W355ZT2W	7-A-49		90	(-80, -40)	67	70	(-70, 1)	68
470	W355ZT3 9P	7-A-50		106	(-80, -40)	92		SAME	
471	M49 559P(FO)	7-A-51		260	(-50, 29)	231	255	(-70, -1)	237
472	M49 559P(AO)	7-A-52		264	(-70, -1)	261		SAME	
473	B465ZMMW(C)	7-A-53		81	(-80, -40)	97		SAME	
474	B565ZTO 1MMP(C)	7-A-54		75	(-50, 29)	45	50	(-70, -1)	67
475	B40S3MMS(BM)	7-A-55		38	(-30, -79)	23	34	(-70, -69)	34
476	B40S3MMP(BM)	7-A-56		111	(-80, -40)	117		SAME	
477	B40S3MZ5	7-A-57		75	(-80, -40)	80		SAME	
478	B40S3MZP	7-A-58		64	(-80, -40)	71		SAME	
479	B48S5MMP	7-A-59		67	(-80, -40)	81		SAME	
480	H44S19(D)	7-A-60		61	(-80, -40)	61		SAME	
481	T49P10W	7-B-1		300	(-80, -40)	297		SAME	
482	T49P6W	7-B-2		66	(-80, -40)	87		SAME	
483	T49COW	7-B-3		23	(-80, -40)	21		SAME	
484	T49S2W	7-B-4		27	(-80, -40)	13	16	(-60, 16)	17
485	T49S4W	7-B-5		18	(-50, 29)	13	14	(-30, 49)	14
486	T49S6W	7-B-6		0	(0, 0)	0	53	(-80, -40)	0
487	T49S8W	7-B-7		145	(-70, -1)	126		SAME	
488	T49S10W	7-B-8		220	(-80, -40)	208	212	(-70, -1)	216
489	T49S10 5P	7-B-9		292	(-80, -40)	288	288	(-70, -1)	288
490	T49S10 9P	7-B-10		331	(-80, -40)	337		SAME	
491	Z49P10W	7-B-11		505	(-80, -40)	506		SAME	
492	Z49P6W	7-B-12		338	(-80, -40)	342		SAME	
493	Z49COW	7-B-13	YES	0	(0, 0)	0		SAME	
494	Z49S2W	7-B-14		331	(-80, -40)	321		SAME	
495	Z49S4W	7-B-15		354	(-80, -40)	352		SAME	
496	Z49S6W	7-B-16		388	(-80, -40)	400		SAME	
497	Z49S8W	7-B-17		219	(-80, -40)	212	213	(-70, -1)	217
498	Z49S10W	7-B-18		328	(-70, -1)	326		SAME	
499	Z49S10 5P	7-B-19		345	(-70, -1)	339		SAME	
500	Z49S10 9P	7-B-20		346	(-70, -1)	343		SAME	
501	W49SMZ2W	7-B-21		120	(-50, 29)	120		SAME	
502	W49SZM3 9P	7-B-22		389	(-70, -1)	367		SAME	
503	W49SMZ0 1RL	7-B-23		265	(-70, -1)	263		SAME	
504	W49SMZ0 1RD	7-B-24		298	(-70, -1)	294		SAME	
505	W49SMZ0 1RV	7-B-25		210	(-70, -1)	208		SAME	
506	W49SZT2W	7-B-26		322	(-70, -1)	323		SAME	
507	W49SZT3 9P	7-B-27		321	(-70, -1)	313		SAME	
508	W49SZT0 1RL	7-B-28		337	(-70, -1)	333		SAME	
509	W49SZT0 1RD	7-B-29		37	(-70, 69)	32		SAME	
510	W49SZT0 1RV	7-B-30		126	(-80, 40)	133		SAME	
511	M49P14W	7-B-31	YES	0	(0, 0)	0		SAME	
512	M49P13W	7-B-32		0	(0, 0)	0	13	(-70, -69)	0
513	M49P11 1P	7-B-33		414	(-70, -69)	420		SAME	
514	M49P10W	7-B-34		381	(-70, -69)	386		SAME	
515	M49P6W	7-B-35		361	(-70, -69)	352	357	(-80, -40)	345
516	M49P2W	7-B-36		367	(-80, -40)	366		SAME	
517	M49CDW	7-B-37		276	(-80, -40)	275		SAME	
518	M49S2W	7-B-38		366	(-80, -40)	377		SAME	
519	M49S4W	7-B-39		330	(-80, -40)	349		SAME	
520	M49S6W	7-B-40		268	(-70, -1)	266		SAME	
521	M49S8W	7-B-41		246	(-70, -1)	254		SAME	
522	M49S9 5P	7-B-42		260	(-70, -1)	256		SAME	
523	M49S10W	7-B-43		246	(-70, -1)	250		SAME	
524	M49S10 9P	7-B-44		267	(-70, -1)	263		SAME	
525	M49S10 9P	7-B-45		259	(-60, 16)	260		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT. LAT)	MEASURED STRAIN
526	M49512W	7-B-46		264	(-50, 29)	259	263	(-40, 16)	260
527	M49512 SP	7-B-47		268	(-50, 29)	252	256	(-60, 16)	258
528	M49513W	7-B-48		293	(-60, 16)	295		SAME	
529	M49513 SP	7-B-49		319	(-60, 16)	0		(0, 0)	-15
530	M49514W	7-B-50		297	(-50, 29)	279	268	(-70, -1)	260
531	M495111P	7-B-51		284	(-50, 29)	258		SAME	
532	B48COMMS(C)	7-B-52		210	(-70, -1)	117	134	(-80, -40)	164
533	Z3353 SP(C)	7-B-53		208	(-80, -40)	200		SAME	
534	Z3353 SP(C)	7-B-54		139	(-70, -5)	135	147	(-80, -40)	147
535	Z3353 SP(C)	7-B-55		147	(-80, -40)	144		SAME	
536	Z43P3 SP(C)	7-B-56		274	(-80, -40)	273		SAME	
537	Z43P3 SP(C)	7-B-57		252	(-80, -40)	251		SAME	
538	Z53P3 SP(C)	7-B-58		351	(-80, -40)	345		SAME	
539	Z53P3 SP(C)	7-B-59		403	(-80, -40)	377		SAME	
540	H52518(D)	7-B-60		147	(-80, -40)	143		SAME	
541	H16 2515P(C)	6-1-1	YES	0	(0, 0)	0		SAME	
542	H49P7A	6-1-2		459	(-80, -40)	467		SAME	
543	H49P7A	6-1-3		345	(-70, -1)	350		SAME	
544	H49P10W	6-1-4		249	(-70, -1)	256		SAME	
545	H49P12W	6-1-5		198	(-50, -30)	214		SAME	
546	H49P15 SP	6-1-6		216	(-40, -80)	207		SAME	
547	H49P18W	6-1-7	YES	0	(-10, -64)	0		(-80, -40)	-1
548	H4951W	6-1-8		550	(-80, -40)	562		SAME	
549	H4953W	6-1-9		499	(-80, -40)	507		SAME	
550	H4955W	6-1-10		467	(-80, -40)	477		SAME	
551	H4957W	6-1-11		481	(-80, -40)	483		SAME	
552	H4959W	6-1-12		439	(-70, -69)	444		SAME	
553	H49510W	6-1-13		387	(-70, -69)	404		SAME	
554	H49511W	6-1-14		368	(-70, -69)	376		SAME	
555	H49512W	6-1-15		341	(-70, -69)	358		SAME	
556	H49513W	6-1-16		299	(-70, -69)	207		SAME	
557	H49515 SP	6-1-17		204	(-40, -80)	209	172	(-10, -74)	180
558	H49516W	6-1-18		202	(-70, -69)	105		SAME	
559	H49518W	6-1-19	YES	0	(0, 0)	0		SAME	
560	H49519W	6-1-20		273	(-50, -29)	272		SAME	
561	H49511 SP	6-1-21		332	(-70, -69)	346		SAME	
562	H49516 SP	6-1-22		185	(-20, -77)	177	179	(-20, -79)	179
563	T46510 9P	6-1-23		255	(-70, -1)	241		SAME	
564	T4657W	6-1-24		101	(-70, -1)	97		SAME	
565	T39510 9P	6-1-25		211	(-80, -40)	206		SAME	
566	T3957A	6-1-26	YES	0	(0, 0)	0		SAME	
567	T24510 9P	6-1-27		137	(-80, -40)	130		SAME	
568	T3657W	6-1-28		39	(-60, 16)	34		SAME	
569	M4358W	6-1-29		265	(-70, -1)	258		SAME	
570	M4354A	6-1-30		260	(-70, -1)	258		SAME	
571	M3958W	6-1-31		248	(-80, -40)	247		SAME	
572	M3957W	6-1-32		249	(-70, -1)	-1	78	(-40, -80)	-62
573	M3958W	6-1-33		234	(-70, -1)	230		SAME	
574	M30511W	6-1-34		172	(-70, -1)	151	154	(-60, 16)	156
575	M3058W	6-1-35		228	(-60, 16)	198	209	(-70, -1)	200
576	M37511W	6-1-36		357	(-70, -1)	125		SAME	
577	M2758W	6-1-37		187	(-80, -40)	179		SAME	
578	H55513W	6-1-38	YES	0	(0, 0)	0	59	(-80, -40)	61
579	H55P16 SP	6-1-39		62	(-70, -69)	59		SAME	
580	T54P7W	6-1-40		246	(-30, -79)	254	254	(-40, -80)	244
581	T54P10 9P	6-1-41		162	(-70, -69)	151	161	(-80, -40)	131
582	T54P7W	6-1-42		36	(-60, -76)	7	20	(-70, -1)	30
583	T54P10 9P	6-1-43		117	(-70, -1)	109	111	(-80, -40)	107
584	M5458 SP	6-1-44		256	(-70, -1)	257		SAME	
585	H59COP	6-1-45	YES	0	(0, 0)	0		SAME	
586	H57COP	6-1-46		645	(-80, -40)	656		SAME	
587	H57S13W	6-1-47		605	(-70, -69)	173	201	(-40, -80)	333
588	H55COP	6-1-48		677	(-70, -69)	15	18	(-40, -80)	289
589	H53COP	6-1-49	YES	0	(0, 0)	0		SAME	
590	H53P13W	6-1-50		226	(-50, -30)	233		SAME	
591	H53S13W	6-1-51		385	(-70, -69)	390		SAME	
592	H51COP	6-1-52	YES	0	(0, 0)	0		SAME	
593	M51S14P	6-1-53		283	(-50, -29)	278		SAME	
594	I52 SCOP	6-1-54		316	(-80, -40)	324		SAME	
595	I57COP	6-1-55		272	(-80, -40)	0	1	(-40, -80)	-135
596	F49COW	6-1-56		18	(-70, -69)	9	10	(-80, -40)	14
597	F52 SCOW	6-1-57		13	(-20, -57)	3	3	(-20, -77)	-4
598	F57COW	6-1-58	YES	0	(0, 0)	0		SAME	
599	H54 8521P(C)	6-1-59		254	(-50, -29)	262	266	(-60, 16)	262
600	M20S13 SP(D)	6-1-60		9	(-40, -80)	0	1	(-80, -40)	-7

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT. LAT.)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT. LAT.)	MEASURED STRAIN
601	T51CDW	6-A-1	YES	0	[ 0, 0 ]	0		SAME	
602	T53CDW	6-A-2		18	[-70, -69]	4	6	[-70, -11]	14
603	T54CDW	6-A-3	YES	25	[-40, 40]	10	11	[-60, 16]	1
604	T55CDW	6-A-4		51	[ 10, 74 ]	10	11	[ 50, 79 ]	-15
605	Z60510 9P	6-A-5		1091	[-80, -40]	1110		SAME	
606	Z6056W	6-A-6		632	[-80, -40]	644		SAME	
607	Z60CDW	6-A-7	YES	1	[ 10, -64 ]	0	1	[-80, -40]	-1
608	Z59510 9P	6-A-8		884	[-70, -11]	878		SAME	
609	Z59CDW	6-A-9		526	[-80, -40]	536		SAME	
610	Z58510 9P	6-A-10		693	[-70, -11]	692		SAME	
611	Z5856W	6-A-11		435	[-80, -40]	444		SAME	
612	Z58CDW	6-A-12		475	[-80, -40]	513		SAME	
613	Z57CDW	6-A-13		500	[-80, -40]	504		SAME	
614	Z57510 9P	6-A-14		482	[-70, -11]	479		SAME	
615	Z56 2P10 9P	6-A-15		663	[-80, -40]	655		SAME	
616	Z56 2CDW	6-A-16		562	[-80, -40]	574		SAME	
617	Z56 2P4W	6-A-17		502	[-80, -40]	514		SAME	
618	Z56 256W	6-A-18		482	[-80, -40]	487		SAME	
619	Z56 2510 9P	6-A-19		555	[-70, -11]	577	563	[-80, -40]	520
620	Z55CDW	6-A-20		467	[-80, -40]	473		SAME	
621	Z55510 9P	6-A-21		533	[-70, -11]	535		SAME	
622	Z54CDW	6-A-22		467	[-80, -40]	477		SAME	
623	Z5556W	6-A-23		551	[-80, -40]	447		SAME	
624	Z54510 9P	6-A-24		500	[-70, -11]	506		SAME	
625	Z53CDW	6-A-25		433	[-80, -40]	443		SAME	
626	Z51CDW	6-A-26	YES	0	[ 0, 0 ]	0		SAME	
627	M51CDW	6-A-27	YES	0	[ 0, 0 ]	0		SAME	
628	M51511 1P	6-A-28		276	[-60, 16]	272		SAME	
629	M49CDP	6-A-29		322	[ 80, 40 ]	328		SAME	
630	M53CDW	6-A-30	YES	0	[ 0, 0 ]	0		SAME	
631	M53511 1P	6-A-31		262	[-60, 16]	249		SAME	
632	M53514P	6-A-32		364	[-50, 29]	304	306	[-60, 16]	304
633	M53P11 1P	6-A-33		423	[-70, -69]	431		SAME	
634	M53P14	6-A-34		476	[-70, -69]	202	235	[-40, -80]	393
635	M55CDW	6-A-35		294	[-80, -40]	330		SAME	
636	M55511 1P	6-A-36		1554	[ 10, -74 ]	141	244	[-60, -16]	230
637	M55514P	6-A-37		370	[-50, 29]	327	329	[-60, 16]	319
638	M57CDW	6-A-38		0	[ 0, 0 ]	0	346	[-80, -40]	0
639	M57511 1P	6-A-39		343	[-80, 16]	333		SAME	
640	M57514P	6-A-40		234	[-50, 29]	230	232	[-60, 16]	232
641	M57P14	6-A-41	YES	0	[ 0, 0 ]	0		SAME	
642	M57P11 1P	6-A-42		586	[-70, -69]	572		SAME	
643	M59CDW	6-A-43	YES	0	[ 0, 0 ]	0		SAME	
644	M59514P	6-A-44		315	[-50, 29]	312	314	[-60, 16]	313
645	M59511 1P	6-A-45		241	[-50, 29]	237	241	[-60, 16]	241
646	W55 95M20 1RV	6-A-46		144	[-20, 57]	129	131	[-40, 40]	136
647	W55 95M20 1RD	6-A-47		231	[ 50, 79 ]	262	265	[-60, 76]	223
648	W55 95M20 1RL	6-A-48		287	[-60, 16]	209	211	[-70, -11]	223
649	W55 95T20 1RV	6-A-49		138	[ 70, -11 ]	142		SAME	
650	W55 95T20 1RD	6-A-50		252	[-80, -40]	208		SAME	
651	W55 95T20 1RL	6-A-51		548	[-70, -11]	538		SAME	
652	W55 95ZM3 9RV	6-A-52		129	[ 70, -11 ]	141		SAME	
653	W55 95ZM3 9RD	6-A-53		211	[-70, -11]	225		SAME	
654	W55 95ZM3 9RL	6-A-54		555	[-70, -11]	551		SAME	
655	W56 15ZM3 9RL	6-A-55		73	[ 0, 69 ]	-1	4	[-80, -40]	-52
656	W56 15ZM3 9RD	6-A-56		31	[ 0, 69 ]	6	16	[ 70, 69 ]	2
657	W56 15ZM3 9RV	6-A-57		138	[ 70, -11 ]	-69	80	[-80, -40]	-17
658	W58 3P20P	6-A-58		216	[-10, -74]	199	210	[-20, -57]	187
659	RESISTOR	6-A-59		13	[-70, -69]	2	2	[-80, -40]	5
660	W5252M2[D]	6-A-60		14	[-60, -76]	4		SAME	
661	B56CDTTP	6-B-1	YES	0	[ 0, 0 ]	0		SAME	
662	B56CDTTS	6-B-2		334	[-80, -40]	342		SAME	
663	B56P4TTP	6-B-3		85	[ 0, -69 ]	50	73	[-60, -76]	36
664	B56P4TTS	6-B-4		277	[-80, -40]	353		SAME	
665	B56P8TTP	6-B-5		184	[ 10, -64 ]	77	238	[-70, -69]	131
666	B56P8TTS	6-B-6		146	[-80, -40]	161		SAME	
667	B56COZTP	6-B-7	YES	2	[ 10, -64 ]	0	0	[ 70, -11 ]	0
668	B56COZTS	6-B-8		53	[-80, -40]	72		SAME	
669	B56P4ZTP	6-B-9		136	[-30, -79]	151	212	[-70, -69]	128
670	B56P4ZTS	6-B-10		23	[-80, -40]	24	30	[-60, -76]	21
671	B56P8ZTP	6-B-11		167	[ 0, -69 ]	84	183	[-70, -69]	124
672	B56P8ZTS	6-B-12		80	[-40, -80]	82	94	[-70, -69]	72
673	B56COMZP	6-B-13		93	[-10, -74]	39	121	[-80, -40]	55
674	B56COMZS	6-B-14		64	[-10, -74]	29	70	[-70, -69]	16
675	B56COMFP	6-B-15		95	[-70, -69]	49		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Q MAXIMUM MEASURED STRAIN			Q MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Q MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Q MOMENT (VERT. LAT)	MEASURED STRAIN
676	B56COMFS	6-B-16		23	(-10, -74)	4	10	(-70, -69)	-13
677	B56P8MFP	6-B-17		40	(-10, -74)	21	37	(-70, -69)	30
678	B56P8MFS	6-B-18		123	(0, -69)	61	64	(-20, -77)	91
679	B56COP1P	6-B-19		120	(-10, -74)	55	80	(-60, -74)	3
680	B56COP1S	6-B-20		66	(-80, -40)	72	SAME		
681	B56P6F1P	6-B-21		46	(0, -69)	18	27	(60, -16)	8
682	B56P6F1S	6-B-22		21	(10, -64)	14	23	(70, -1)	10
683	B56S477P	6-B-23		67	(0, 0)	0	71	(-70, -1)	18
684	B56S477S	6-B-24		225	(-80, -40)	217	SAME		
685	B16P211W(C)	6-B-25		33	(0, -69)	8	12	(-60, -16)	-8
686	B56S877S	6-B-26	YES	0	(0, 0)	0	SAME		
687	B56S427P	6-B-27		55	(0, 0)	0	106	(-80, -40)	39
688	B56S427S	6-B-28		62	(10, 74)	23	97	(-70, -1)	52
689	B56S827P	6-B-29		35	(0, 0)	0	54	(-50, 29)	17
690	B56S827S	6-B-30		32	(10, 74)	20	29	(-50, 29)	22
691	B56S8MFP	6-B-31	YES	0	(0, 0)	0	44	(-80, -40)	0
692	B56S8MFS	6-B-32		58	(40, 80)	52	65	(70, 69)	12
693	B56S6F1P	6-B-33		30	(20, 77)	9	27	(60, 40)	-10
694	B56S6F1S	6-B-34		38	(70, 69)	38	40	(80, 40)	34
695	B56C0HHRN	6-B-35		193	(-80, -40)	151	SAME		
696	B56C0HHRD	6-B-36		114	(80, 40)	104	SAME		
697	B56C0HHRV	6-B-37		72	(80, 40)	68	SAME		
698	B56P711RV	6-B-38		0	(0, 0)	0	58	(80, 40)	0
699	B56P711RD	6-B-39		45	(80, 40)	61	SAME		
700	B56P711RH	6-B-40		81	(80, 40)	73	73	(70, -1)	73
701	B56P111FRV	6-B-41		26	(50, 79)	16	17	(70, 69)	6
702	B56P111FRD	6-B-42		307	(-80, -40)	274	SAME		
703	B56P111FRH	6-B-43		35	(-80, -40)	23	SAME		
704	B56P13FFRV	6-B-44		31	(40, 80)	30	31	(60, 76)	23
705	B56P13FFRD	6-B-45		106	(-70, -1)	104	SAME		
706	B56P13FFRH	6-B-46		61	(0, -69)	40	44	(-30, -79)	53
707	B56S711RH	6-B-47		37	(80, 40)	51	SAME		
708	B56S711RD	6-B-48		75	(-50, -79)	44	60	(-80, -40)	40
709	B56S711RV	6-B-49		39	(30, 79)	20	39	(80, 40)	-1
710	B56S111FRH	6-B-50		160	(80, 40)	181	SAME		
711	B56S111FRD	6-B-51		314	(80, 40)	342	SAME		
712	B56S111FRV	6-B-52		60	(-50, -79)	51	61	(-70, -69)	52
713	B56S13FFRH	6-B-53		67	(0, 69)	72	80	(30, 79)	55
714	B56S13FFRD	6-B-54		47	(-30, -79)	21	21	(-20, -77)	43
715	B56S13FFRV	6-B-55		182	(-70, -69)	175	178	(-80, -40)	157
716	M36 1S4P(C)	6-B-56		34	(70, -1)	34	39	(80, 40)	30
717	M36S4P(C)	6-B-57		462	(-80, -40)	457	SAME		
718	M32 1S9P(C)	6-B-58		251	(-60, 16)	244	248	(-70, -1)	237
719	M32 1P 5P(C)	6-B-59		338	(-80, -40)	295	SAME		
720	RESISTOR	6-B-60		81	(70, 69)	89	92	(80, 40)	67
721	APMM36C1PA	5--1		296	(0, 0)	0	146	(-50, 29)	127
722	APMM36C2PA	5--2		744	(-80, -40)	723	SAME		
723	APMM36C3PA	5--3		885	(-70, -69)	839	876	(-80, -40)	843
724	APMM36C4PA	5--4	YES	400	(-70, -69)	380	SAME		
725	APMM36C5PA	5--5		384	(-80, -40)	398	SAME		
726	APMM36P3PA4	5--6		402	(-70, -69)	404	SAME		
727	APMM36C1PF	5--7		391	(-70, -69)	397	SAME		
728	APMM36C2PF	5--8		456	(-70, -69)	457	SAME		
729	APMM36C3PF	5--9		850	(-70, -69)	856	SAME		
730	APMM36C4PF	5--10		785	(-70, -69)	773	SAME		
731	APMM36C5PF	5--11		222	(-40, -80)	226	SAME		
732	APMM36P1PFO 5	5--12		483	(-70, -69)	479	SAME		
733	APMM36P3PFO 5	5--13		517	(-70, -69)	513	SAME		
734	APMM36P5PFO 5	5--14		675	(-70, -69)	677	SAME		
735	APMM36R1PF	5--15		776	(-70, -69)	777	SAME		
736	APMM36RDPF	5--16		402	(-70, -69)	399	SAME		
737	APMM36RHFP	5--17		243	(80, 40)	264	SAME		
738	APMM36P3PF2	5--18		466	(-70, -69)	462	SAME		
739	APMM36P3PF4	5--19		444	(-70, -69)	450	SAME		
740	M35 3P11 1P	5--20		407	(-70, -69)	410	SAME		
741	M35 3P11 5P	5--21		414	(-70, -69)	410	SAME		
742	M35 3P12P	5--22		472	(-30, -79)	230	322	(-70, -69)	364
743	M38 6P11 7P	5--23		288	(-70, -69)	279	SAME		
744	APM33C315	5--24		32	(-70, -69)	27	SAME		
745	APM33C308	5--25		216	(80, 40)	216	SAME		
746	APM33C300(R)	5--26		8	(0, 0)	0	2	(20, -57)	2
747	APM33C283	5--27		600	(-80, -40)	613	SAME		
748	APM33RVMH	5--28		24	(20, 77)	19	20	(30, 79)	22
749	APM33RDMH	5--29	YES	0	(0, 0)	0	0	(-80, -40)	0
750	APM33RLMH	5--30		247	(-70, -69)	231	SAME		

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
751	APM233RLMA	5- -31	YES	0	[ 0. 0 ]	0	0	[ 80. 40 ]	0
752	APM233RDMA	5- -32		584	[ -80. -40 ]	592	32	[ -50. 29 ]	33
753	APM233RVMA	5- -33		39	[ -30. 49 ]	31			
754	AP2238C2PA	5- -34		1339	[ -80. -40 ]	1351			SAME
755	AP2238C3PA	5- -35	YES	0	[ 0. 0 ]	0			SAME
756	AP2238C4PA	5- -36	YES	0	[ 0. 0 ]	0			SAME
757	AP2238P3PA 5	5- -37		552	[ -80. -40 ]	553			SAME
758	AP2238P3PA2	5- -38		426	[ -80. -40 ]	427			SAME
759	AP2238P3PA4	5- -39		370	[ -80. -40 ]	369			SAME
760	AP2238RHPA	5- -40		59	[ 40. 80 ]	60	61	[ 50. 79 ]	53
761	AP2238RDPA	5- -41	YES	0	[ 0. 0 ]	0			SAME
762	AP2238RLPA	5- -42		976	[ -80. -40 ]	972			SAME
763	APM239C315	5- -43		515	[ -80. -40 ]	535			SAME
764	APM239C308	5- -44		503	[ -80. -40 ]	516			SAME
765	APM239C300	5- -45		487	[ -80. -40 ]	503			SAME
766	APM239C283	5- -46		599	[ -80. -40 ]	597			SAME
767	APM242C215	5- -47		520	[ -80. -40 ]	538			SAME
768	APM242C308	5- -48		510	[ -80. -40 ]	539			SAME
769	APM242C300(R)	5- -49		71	[ 20. -57 ]	22	22	[ 30. -49 ]	48
770	APM242C293	5- -50		553	[ -80. -40 ]	548			SAME
771	B16P3MMRH	5- -51		80	[ 50. 79 ]	75	88	[ 70. 69 ]	70
772	B16P3MMRD	5- -52		86	[ 70. 69 ]	92	100	[ 80. 40 ]	76
773	B16P3MMRV	5- -53		297	[ 0. -69 ]	1	36	[ 80. 40 ]	4
774	H23P17MFP(U)	5- -54		273	[ -50. -79 ]	187	202	[ -70. -69 ]	251
775	H23 9P16MFP(HSU)	5- -55		367	[ 80. 40 ]	359			SAME
776	H23 9P16MFP(HSL)	5- -56		453	[ -80. -40 ]	461			SAME
777	B24P10 5MMRH	5- -57		14	[ 70. 69 ]	9	14	[ 20. 77 ]	12
778	B24P10 5MMRD	5- -58		110	[ 80. 40 ]	122			SAME
779	B24P10 5MMRV	5- -59		82	[ 70. 1 ]	87	106	[ 80. 40 ]	82
780	W36P2M2(D)	5- -60		8	[ -30. 49 ]	1	3	[ -80. -40 ]	6
781	APMMA4C1PA	5-A- 1	YES	0	[ 0. 0 ]	0			SAME
782	APMMA4C2PA	5-A- 2		922	[ -80. -40 ]	940			SAME
783	APMMA4C3PA	5-A- 3		981	[ -80. -40 ]	982			SAME
784	APMMA4C4PA	5-A- 4	YES	410	[ -50. 29 ]	379	392	[ -70. -1 ]	380
785	APMMA4C5PA	5-A- 5		463	[ -70. -69 ]	467			SAME
786	APMMA4P3PA4	5-A- 6		480	[ -70. -69 ]	481			SAME
787	APMMA4C1PF	5-A- 7		464	[ -70. -69 ]	472			SAME
788	APMMA4C2PF	5-A- 8		518	[ -70. -69 ]	511			SAME
789	APMMA4C3PF	5-A- 9		902	[ -70. -69 ]	902			SAME
790	APMMA4C4PF	5-A-10		859	[ -70. -69 ]	851			SAME
791	APMMA4C5PF	5-A-11		199	[ -50. -79 ]	202	205	[ -40. -80 ]	199
792	APMMA4P1PFO 5	5-A-12		622	[ -70. -69 ]	513			SAME
793	APMMA4P3PFO 5	5-A-13		554	[ -70. -69 ]	553			SAME
794	APMMA4P5PFO 5	5-A-14		724	[ -70. -69 ]	728			SAME
795	APMMA4R1PF	5-A-15		832	[ -70. -69 ]	835			SAME
796	APMMA4R2PF	5-A-16		375	[ -70. -69 ]	373			SAME
797	APMMA4R3PF	5-A-17		284	[ 80. 40 ]	3	5	[ 40. 80 ]	140
798	APMMA4P3PF2	5-A-18		491	[ -70. -69 ]	506			SAME
799	APMMA4P3PFA	5-A-19		494	[ -70. -69 ]	494			SAME
800	M43 3P11 1P	5-A-20		475	[ -70. -69 ]	474			SAME
801	M43 3P11 5P	5-A-21		450	[ -70. -69 ]	457			SAME
802	M43 3P12 0P	5-A-22		457	[ -70. -69 ]	452			SAME
803	M41 4P11 7P	5-A-23		512	[ -70. -69 ]	512			SAME
804	APM246C292	5-A-24		606	[ -80. -40 ]	608			SAME
805	APM246C285	5-A-25		622	[ -80. -40 ]	44	87	[ -40. -80 ]	427
806	APM246C277	5-A-26		502	[ -80. -40 ]	496			SAME
807	APM246C270	5-A-27		468	[ -70. -69 ]	459			SAME
808	AP2246C3PA	5-A-28		1258	[ -80. -40 ]	1267			SAME
809	AP2246C3PF	5-A-29	YES	0	[ 0. 0 ]	0	0	[ -80. -40 ]	0
810	AP2252C35F	5-A-30		477	[ -70. -1 ]	466			SAME
811	AS2252C35A	5-A-31	YES	2	[ -40. 40 ]	0	0	[ -70. -1 ]	0
812	APM262C101	5-A-32		462	[ -70. -69 ]	463			SAME
813	APM262C094	5-A-33		427	[ -80. -40 ]	428			SAME
814	APM262C086(R)	5-A-34		98	[ 80. -16 ]	15	19	[ 80. 40 ]	98
815	APM262C078	5-A-35	YES	0	[ 0. 0 ]	0			SAME
816	APM262RLZA	5-A-36	YES	0	[ 0. 0 ]	0			SAME
817	APM262RDZA	5-A-37		148	[ 0. 69 ]	-33	50	[ -60. -76 ]	-20
818	APM262RHZA	5-A-38		110	[ 0. 69 ]	-28	41	[ -60. -76 ]	-17
819	ASMM66C15F	5-A-39		561	[ -80. -40 ]	556			SAME
820	ASMM66C25F	5-A-40		682	[ -80. -40 ]	688			SAME
821	ASMM66C35F	5-A-41		667	[ -80. -40 ]	667			SAME
822	ASMM66C45F	5-A-42		447	[ -80. -40 ]	413	417	[ -70. -1 ]	427
823	ASMM66C55F	5-A-43		388	[ -70. -1 ]	396			SAME
824	M59 5P 5P(AC)	5-A-44		376	[ -80. -40 ]	381			SAME
825	M59 5P 5P(FC)	5-A-45		216	[ -80. -40 ]	218			SAME



TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT. LAT)	MEASURED STRAIN
826	M59 9P SP(FCI)	5-A-46		261	(-80, -40)	261			
827	M485SW(BMSU)	5-A-47	YES	111	(80, 40)	63	86	SAME	
828	B56PBMMS(BM)	5-A-48		41	(-10, 64)	27	47	(-60, 76)	106
829	M485SW(BMSL)	5-A-49	YES	0	(0, 0)	0		(-70, -1)	39
830	B56PBMZS(BM)	5-A-50		152	(0, -69)	80	135	SAME	
831	B40S9MMP(IC)	5-A-51		487	(80, 40)	486		(-60, -76)	94
832	B64PBMMS(BM)	5-A-52		21	(-10, -74)	-9	43	SAME	
833	H23 9S19S	5-A-53		64	(-30, -1)	87	88	(80, 40)	3
834	B24S9 SMHRV(IC)	5-A-54		60	(-80, -40)	79	80	(80, 40)	56
835	B24S9 SMHRV(IC)	5-A-55		110	(-80, 40)	82		(-60, -76)	56
836	B24S9 SMHRV(IC)	5-A-56		40	(-80, 40)	24	24	(-10, -74)	38
837	H23 9S16P(HSL)	5-A-57		321	(80, 40)	313		SAME	
838	H23 9S16P(HSL)	5-A-58		475	(-80, -40)	478		SAME	
839	H23P17MPP(LT)	5-A-59		168	(-70, -69)	160		SAME	
840	W4492M2(IC)	5-A-60		22	(-60, -76)	-3	3	(-20, 77)	2
841	M23 9S4 SP(HSC)	5-B-1		160	(-70, -69)	162		SAME	
842	M23 9S4 SP(HS)	5-B-2		134	(60, 76)	105	108	(50, 79)	116
843	H24 1P8 SP(HSL)	5-B-3		339	(80, 40)	258		SAME	
844	H24 1P8 SP(HSU)	5-B-4	YES	448	(-80, -40)	477		SAME	
845	H24 1P13 SP(IC)	5-B-5		47	(30, 79)	35	39	(60, 76)	39
846	H29 3P17 BRH	5-B-6		54	(30, 79)	43	53	(70, 69)	48
847	H29 3P17 BRD	5-B-7		734	(-80, -40)	745		SAME	
848	H29 3P17 BRL	5-B-8		248	(-70, -69)	238		SAME	
849	H31 9P14S(IC)	5-B-9		133	(-50, -79)	130	130	(-60, -76)	131
850	B32P8F(IRHIC)	5-B-10		60	(70, 69)	54		SAME	
851	B32P8F(IRDIC)	5-B-11		55	(-80, -40)	54		SAME	
852	B32P8F(IRVIC)	5-B-12		128	(-80, -40)	121		SAME	
853	M31 8P11W	5-B-13		223	(-80, -40)	227		SAME	
854	M31 8P10 SP	5-B-14		309	(-70, -69)	307		SAME	
855	H37P20P	5-B-15		336	(-70, -69)	330		SAME	
856	H37S20P(CU)	5-B-16		181	(-40, 40)	176		SAME	
857	H37S20P(IC)	5-B-17		170	(-40, 40)	165	165	(-30, 49)	163
858	H37S19P(IC)	5-B-18		167	(0, 69)	159	170	(-30, 49)	161
859	H37 4S20P(IC)	5-B-19		212	(-40, 40)	188		SAME	
860	B40S8 SMFRV(BB)	5-B-20		47	(20, 77)	29	45	(70, 69)	16
861	B40S8 SMFRD(BB)	5-B-21		118	(-20, 57)	72	88	(-60, -76)	100
862	B40S8 SMFRH(BB)	5-B-22		141	(-70, -1)	129		SAME	
863	H44S20P(LP)	5-B-23		208	(-50, 29)	169	192	(70, 64)	172
864	H45 4S21P(IC)	5-B-24		294	(-50, 29)	283		SAME	
865	H45 4S21P(IC)	5-B-25		290	(-40, 40)	276	282	(-50, 29)	290
866	H41P20P(IC)	5-B-26		71	(20, -77)	64	69	(-50, 79)	65
867	H47 9P9P(IC)	5-B-27		316	(70, 1)	330		SAME	
868	B48P6 2MHRV(BB)	5-B-28		64	(-80, -40)	62		SAME	
869	B48P6 2MHRD(BB)	5-B-29	YES	0	(0, 0)	0	0	(-80, -40)	0
870	B48P6 2MHRH(BB)	5-B-30		44	(0, -69)	31	39	(-50, -30)	20
871	H42 6P20P(IC)	5-B-31	YES	2	(0, -69)	0	0	(50, 79)	0
872	B48P12MMP(IC)	5-B-32		46	(80, 40)	45	88	(80, 40)	19
873	B48P12MMP(IC)	5-B-33		90	(50, -30)	42		SAME	
874	B48CD1P(IC)	5-B-34		42	(0, 69)	-2	53	(-80, 40)	22
875	155 9P2P(IC)	5-B-35	YES	0	(0, 0)	0		SAME	
876	H48 5P10P(IC)	5-B-36	YES	0	(0, 0)	0		SAME	
877	H51P14P(CU)	5-B-37		211	(-10, -74)	196	199	(0, -69)	195
878	H51P14P(CL)	5-B-38		253	(60, -16)	258		SAME	
879	H49P19P(IC)	5-B-39		373	(-60, -76)	365		SAME	
880	H51P18P(IC)	5-B-40		327	(-60, -76)	321		SAME	
881	M56P8W(BMSUD)	5-B-41		179	(-50, 29)	65	157	(-70, -69)	90
882	M56P8W(BMSLD)	5-B-42	YES	161	(-70, -69)	116		SAME	
883	M56P8W(BMSUD)	5-B-43		139	(-70, -69)	157		SAME	
884	M56P8W(BMSLD)	5-B-44	YES	0	(0, 0)	0		SAME	
885	RESISTOR	5-B-45		23	(0, 69)	3		SAME	
886	M40S3W(BMSU)	5-B-46		210	(-70, -69)	238	254	(-80, -40)	182
887	B56PBMMP(BM)	5-B-47		162	(0, -69)	92	150	(-60, -76)	93
888	M485SW(BMSU)	5-B-48	YES	0	(0, 0)	0		SAME	
889	B56PBMZP(BM)	5-B-49		79	(0, -69)	36	61	(-60, -76)	36
890	M31 8P10W	5-B-50		314	(-70, -69)	314		SAME	
891	H16S12P(CU)	5-B-51		47	(-60, 16)	45	47	(-40, -40)	45
892	H16S12P(IC)	5-B-52		53	(-70, -1)	41	47	(-40, 40)	49
893	H16S12P(CL)	5-B-53		78	(-70, -1)	79		SAME	
894	H14S12P(IC)	5-B-54		20	(-10, -74)	9	9	(0, -69)	4
895	H10 6S8S(C)	5-B-55		50	(-50, 29)	44	48	(-70, -1)	48
896	H12P14P(IC)	5-B-56		42	(-80, -40)	34	36	(-70, -69)	40
897	H12P14P(IC)	5-B-57		27	(-60, -76)	16	16	(-50, -79)	25
898	B16P8P(IC)	5-B-58		92	(80, 40)	109		SAME	
899	H23S20P(IC)	5-B-59		118	(-60, 16)	170		SAME	
900	RESISTOR	5-B-60		9	(0, 69)	1	2	(70, 69)	1

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
901	B64C022P	4--1		66	[-50, 29]	41	73	[-80, -40]	41
902	B64C022S	4--2		57	[-80, -40]	63		SAME	
903	B64P422P	4--3		53	[-20, -77]	29	30	[-40, -80]	49
904	B64P422S	4--4		159	[-80, -40]	196		SAME	
905	B64P822P	4--5		98	[-70, -69]	107		SAME	
906	B64P822S	4--6		97	[-40, -80]	73	100	[-70, -69]	85
907	B64COM2P	4--7		78	[-60, -76]	88	104	[-80, -40]	70
908	B64COM2S	4--8		33	[-40, -40]	20	30	[-80, -40]	27
909	B64P4M2P	4--9		76	[-60, -75]	88	97	[-80, -40]	62
910	B64P8M2S	4--10		112	[-70, -69]	129		SAME	
911	B64P8M2P	4--11		55	[-10, -74]	24	28	[-50, -79]	28
912	B64P8M2S	4--12		139	[-70, -69]	140		SAME	
913	B64COMFP	4--13		36	[-30, -79]	13	24	[-80, -40]	15
914	B64COMFS	4--14		152	[-80, -40]	53		SAME	
915	B64P2MFP	4--15		73	[-70, -69]	36	37	[-80, -40]	23
916	B64P2MFS	4--16	YES	0	[0, 0]	0	0	[-50, -79]	0
917	B64COP1P	4--17		50	[-80, -40]	56		SAME	
918	B64COP1S	4--18		57	[-80, -40]	48		SAME	
919	B64P6F1P	4--19		30	[40, 80]	3	6	[-70, -11]	3
920	B64P6F1S	4--20		79	[0, -69]	29	30	[-20, -77]	21
921	B64S422P	4--21		55	[-70, -11]	68	77	[-80, -40]	49
922	B64S422S	4--22		118	[-80, -40]	81		SAME	
923	B64S822P	4--23		88	[-60, 16]	82	87	[-70, -11]	70
924	B64S822S	4--24		37	[-10, -74]	-8	25	[-70, -11]	19
925	B64S4M2P	4--25		80	[-80, -40]	87		SAME	
926	B64S4M2S	4--26		118	[-80, -40]	154		SAME	
927	B64S8M2P	4--27		66	[-80, -40]	83		SAME	
928	B64S8M2S	4--28		101	[-70, -11]	104	104	[-80, -40]	95
929	B64S4MFP	4--29		72	[-70, -11]	92	102	[-80, -40]	72
930	B64S4MFS	4--30		51	[-50, 29]	56	80	[-80, -40]	43
931	B64S6F1P	4--31		46	[-40, 40]	35	67	[-80, -40]	30
932	B64S6F1S	4--32		54	[-70, -11]	72	73	[-80, -40]	48
933	B64COMHRH	4--33		19	[-20, -77]	0	12	[70, -11]	3
934	B64COMHRD	4--34		21	[-40, 40]	4	5	[-10, 74]	4
935	B64COMHRV	4--35		16	[0, 0]	0	12	[-70, 69]	10
936	B64P711RV	4--36		40	[-30, -49]	35	51	[-70, -11]	30
937	B64P711RD	4--37	YES	6	[-70, -11]	5	6	[-80, -40]	6
938	B64P711RH	4--38		80	[-70, -11]	98	123	[-80, -40]	76
939	B64P11F1RV	4--39		326	[-80, -40]	329		SAME	
940	B64P11F1RD	4--40		42	[-70, 69]	24	46	[70, -11]	30
941	B64P11F1RH	4--41		211	[-10, 64]	-12	152	[-80, -40]	22
942	B64P13FFRV	4--42		64	[-40, 80]	70	71	[-30, 79]	64
943	B64P13FFRD	4--43		142	[-70, -11]	167		SAME	
944	B64P13FFRH	4--44		46	[-80, -16]	12	14	[-80, -40]	30
945	B64S711RH	4--45		86	[-80, 40]	50		SAME	
946	B64S711RD	4--46		85	[40, 80]	30	48	[-80, 40]	34
947	B64S711RV	4--47		36	[-30, -79]	12	12	[-40, -80]	34
948	B64S11F1RH	4--48		80	[-80, 40]	96	123	[-60, 76]	66
949	B64S11F1RD	4--49		452	[-80, -40]	360		SAME	
950	B64S11F1RV	4--50		88	[-60, -76]	67		SAME	
951	B64S1311RH	4--51	YES	0	[0, 0]	0		SAME	
952	B64S1311RD	4--52		181	[-80, -40]	184		SAME	
953	B64S1311RV	4--53		40	[-50, -79]	18	23	[-80, -40]	22
954	H61 2S20P(CU)	4--54		325	[-50, 29]	324	328	[-60, 16]	321
955	M595BP1C1	4--55		296	[-70, -11]	292		SAME	
956	APM246C112	4--56		386	[-80, -40]	384		SAME	
957	APM246C105	4--57		371	[-70, -69]	360	371	[-80, -40]	369
958	APM246C97	4--58	YES	432	[-70, -69]	438	446	[-80, -40]	428
959	APM246C90	4--59		239	[-70, -69]	205		SAME	
960	H60P191D	4--60		14	[-20, -77]	3	10	[-80, -40]	8
961	M61P14P(G)	4-A-1	YES	0	[0, 0]	0		SAME	
962	M61P11 1P	4-A-2		491	[-70, -69]	498		SAME	
963	M61P10W	4-A-3		443	[-70, -69]	437		SAME	
964	M61P6W	4-A-4		358	[-70, -69]	363	366	[-80, -40]	356
965	M61P2W	4-A-5		320	[-80, -40]	324		SAME	
966	M61CDW	4-A-6	YES	0	[0, 0]	0		SAME	
967	M61S2W	4-A-7		289	[-80, -40]	286		SAME	
968	M61S4W	4-A-8		224	[-80, -40]	223		SAME	
969	M61S6W	4-A-9		301	[-60, 16]	273	294	[-70, -11]	292
970	M61S8W	4-A-10		248	[-70, -11]	254		SAME	
971	M61S9 1P	4-A-11		263	[-70, -11]	267		SAME	
972	M61S10W	4-A-12		258	[-70, -11]	253		SAME	
973	M61S10 SP	4-A-13		267	[-50, 29]	238	244	[-60, 16]	263
974	M61S11 1P	4-A-14		282	[-80, 16]	278		SAME	
975	M61S12W	4-A-15		289	[-40, 40]	275	294	[-60, 16]	289

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	① MAXIMUM MEASURED STRAIN			② MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	① MOMENT (VERT. LAT.)	PREDICTED STRAIN	PREDICTED MAXIMUM	② MOMENT (VERT. LAT.)	MEASURED STRAIN
976	H61512 SP	4-A-16	YES	0	(-0, 0)	0	0	(-80, -40)	0
977	H61513W	4-A-17		398	(-60, -16)	318		SAME	
978	H61514P	4-A-18		331	(-50, -29)	305	309	(-60, -16)	280
979	261C0W	4-A-19		662	(-80, -40)	677		SAME	
980	261S2W	4-A-20		353	(-80, -40)	347		SAME	
981	261S4W	4-A-21		398	(-80, -40)	395		SAME	
982	261S6W	4-A-22		739	(-80, -40)	768		SAME	
983	261S8W	4-A-23		606	(-80, -40)	615		SAME	
984	261S9W	4-A-24		627	(-80, -40)	631		SAME	
985	261S10W	4-A-25		832	(-70, -)	814	819	(-80, -40)	776
986	261S10 SP	4-A-26		994	(-70, -)	974	977	(-80, -40)	884
987	261S10 9P	4-A-27		947	(-70, -)	937	938	(-80, -40)	888
988	261P6W	4-A-28		762	(-80, -40)	816		SAME	
989	261P10W	4-A-29		874	(-80, -40)	915		SAME	
990	H615ZM3 9P	4-A-30		987	(-70, -)	992	995	(-80, -40)	921
991	H615M20 1P	4-A-31		662	(-70, -)	645		SAME	
992	H56 1S21P	4-A-32		702	(-70, -)	683		SAME	
993	H6153W	4-A-33		549	(-80, -40)	567		SAME	
994	H61P5W	4-A-34		494	(-80, -40)	505		SAME	
995	H6155W	4-A-35		511	(-80, -40)	522		SAME	
996	H6157W	4-A-36		464	(-80, -40)	474		SAME	
997	H61P7W	4-A-37	YES	67	(-70, -69)	67		SAME	
998	H6159W	4-A-38		217	(-70, -74)	210	216	(-70, -64)	217
999	H61511W	4-A-39		294	(-70, -)	302		SAME	
1000	H61P11W	4-A-40		349	(-70, -)	349		SAME	
1001	H61513W	4-A-41		431	(-70, -64)	417		SAME	
1002	H61514W	4-A-42		382	(-70, -69)	382		SAME	
1003	H61P18W	4-A-43		206	(-50, -30)	216	217	(-40, -40)	196
1004	H61515W	4-A-44		257	(-60, -76)	211		SAME	
1005	H61516 SP	4-A-45		112	(-40, -80)	210		SAME	
1006	H61P16 SP	4-A-46		232	(-40, -80)	214		SAME	
1007	H61518W	4-A-47		1071	(-80, -40)	1065	697	(-50, -30)	121
1008	H61520WL	4-A-48		283	(-80, -40)	277	280	(-50, -29)	283
1009	H61P20WL	4-A-49		514	(-70, -69)	505		SAME	
1010	H57 9P9SIC	4-A-50		102	(-50, -30)	98		SAME	
1011	B56P811PIC	4-A-51		65	(-60, -16)	66	70	(-70, -)	57
1012	ASM276C098	4-A-52		345	(-80, -40)	322	328	(-70, -)	343
1013	ASM276C105	4-A-53		383	(-70, -)	376	386	(-80, -40)	379
1014	ASM276C112	4-A-54		446	(-80, -40)	455		SAME	
1015	ASMM66C55A	4-A-55		486	(-60, -16)	471		SAME	
1016	ASMM66C45A	4-A-56		555	(-60, -16)	543		SAME	
1017	ASMM66C35A	4-A-57		530	(-70, -)	531	534	(-60, -16)	528
1018	ASMM66C15A	4-A-58	YES	5294	(-10, -74)	267	269	(-20, -77)	729
1019	ASMM66C15A	4-A-59		367	(-70, -)	363		SAME	
1020	H6852M1D1	4-A-60		11	(-0, -69)	0	0	(-0, -69)	13
1021	B72C0HHRD	4-B-1		33	(-80, -40)	42		SAME	
1022	B72C0HHRD	4-B-2		59	(-70, -)	43	45	(-80, -40)	47
1023	B72C0HHRV	4-B-3		51	(-80, -40)	82		SAME	
1024	B72P12 SFIRV	4-B-4		123	(-70, -)	97	99	(-60, -16)	115
1025	B72P12 SFIRD	4-B-5		111	(-80, -40)	101	103	(-70, -)	107
1026	B72P12 SFIRH	4-B-6		43	(-10, -74)	8	64	(-80, -40)	27
1027	B72S12 SFIRH	4-B-7		100	(-80, -40)	121	137	(-70, -69)	94
1028	B72S12 SFIRD	4-B-8		259	(-80, -40)	232	239	(-70, -69)	259
1029	B72S12 SFIRV	4-B-9		144	(-0, 0)	0	53	(-70, -69)	37
1030	262 5C0W	4-B-10		539	(-80, -40)	550		SAME	
1031	265C0W	4-B-11		485	(-80, -40)	490		SAME	
1032	267C0W	4-B-12		498	(-80, -40)	602		SAME	
1033	269C0W	4-B-13		510	(-80, -40)	516		SAME	
1034	271C0W	4-B-14		487	(-80, -40)	488		SAME	
1035	263S6W	4-B-15		520	(-80, -40)	521		SAME	
1036	263S11W	4-B-16	YES	8	(-20, -57)	0	1	(-70, -69)	1
1037	H63C0W	4-B-17		238	(-80, -40)	1	1	(-40, -80)	174
1038	H63S11 1P	4-B-18		320	(-70, -)	314		SAME	
1039	H63S14P	4-B-19		361	(-60, -16)	354		SAME	
1040	H65C0W	4-B-20		317	(-80, -40)	323		SAME	
1041	H65S11 1P	4-B-21		307	(-60, -16)	313		SAME	
1042	H65S14P	4-B-22		365	(-70, -)	369	373	(-60, -16)	363
1043	H65P14P	4-B-23		567	(-70, -69)	573		SAME	
1044	H65P11 1P	4-B-24		506	(-70, -69)	509		SAME	
1045	H67C0W	4-B-25	YES	0	(-0, 0)	0		SAME	
1046	H67S11 1P	4-B-26		295	(-70, -)	295	296	(-60, -16)	291
1047	H67S14P	4-B-27		1242	(-20, -57)	1250	311	(-60, -16)	224
1048	H69C0W	4-B-28	YES	0	(-0, 0)	0		SAME	
1049	H69S11 1P	4-B-29		334	(-80, -29)	282	292	(-80, -16)	322
1050	H69S14P	4-B-30		356	(-70, -)	300	303	(-60, -16)	353

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1051	H69P11 1P	4-B-31		358	(-80, -40)	344		SAME	
1052	H69P14P	4-B-32	YES	0	(-0, -0)	0		SAME	
1053	H71CDW	4-B-33		312	(-80, -40)	306		SAME	
1054	H71510 1P	4-B-34		269	(-60, 16)	266		SAME	
1055	H71513P	4-B-35		1389	(-0, 0)	0	360	(-60, 16)	-3228
1056	H6358 5P	4-B-36		260	(-70, -1)	262		SAME	
1057	H69CDP	4-B-37	YES	35	(-80, 40)	34		SAME	
1058	H65CDP	4-B-38		10	(-0, 0)	0	6	(-70, 69)	-4
1059	F65CDNA	4-B-39	YES	0	(-0, 0)	0		SAME	
1060	H63CDP	4-B-40		334	(-80, 40)	341		SAME	
1061	H65CDP	4-B-41		755	(-80, 40)	765		SAME	
1062	H65513W	4-B-42		383	(-70, 69)	384		SAME	
1063	H67CDP	4-B-43	YES	0	(-0, 0)	0		SAME	
1064	H69P13W	4-B-44		217	(-60, 16)	218	219	(-50, -30)	215
1065	H69CDP	4-B-45	YES	0	(-0, 0)	0		SAME	
1066	H69513W	4-B-46		0	(-0, 0)	0	276	(-80, 40)	0
1067	H71CDP	4-B-47		482	(-80, 40)	483		SAME	
1068	H67CDP	4-B-48		334	(-80, 40)	337		SAME	
1069	F61CDNA	4-B-49		13	(-60, 16)	9		(-80, -40)	13
1070	B6458 5MHRV	4-B-50		36	(-10, 64)	19	29	(-70, -1)	4
1071	B6458 5MHRD	4-B-51		107	(-70, -1)	83	86	(-80, -40)	95
1072	B6458 5MHRP	4-B-52		508	(-80, 40)	257	257	(-80, -40)	-75
1073	H65520P1CL1	4-B-53		276	(-30, 49)	262		SAME	
1074	H65520P1ACL1	4-B-54		246	(-40, 40)	244	245	(-30, 49)	242
1075	H65520P1FCL1	4-B-55		226	(-40, 40)	218	219	(-30, 49)	224
1076	ASM276C090	4-B-56		260	(-70, -1)	260		SAME	
1077	ASM262C65	4-B-57		532	(-80, -40)	535		SAME	
1078	ASM262C60	4-B-58	YES	5382	(-30, 49)	270	345	(-70, 1)	2298
1079	ASM262C55	4-B-59		394	(-80, 40)	403		SAME	
1080	H68519P1D1	4-B-60		10	(-0, 0)	0	2	(-80, 40)	0
1081	B80CDZ2P	3--1		8	(-80, -40)	104		SAME	
1082	B80CDZ2S	3--2		10	(-80, 40)	218		SAME	
1083	B80P3Z2P	3--3		77	(-80, -40)	76		SAME	
1084	B80P3Z2S	3--4		121	(-80, 40)	130		SAME	
1085	B80P8Z2P	3--5		40	(-70, 69)	44	45	(-80, -40)	38
1086	B80P8Z2S	3--6		85	(-50, -30)	48	60	(-80, 40)	56
1087	B80CDM2P	3--7		60	(-70, 69)	0	6	(-40, 40)	21
1088	B80CDM2S	3--8		21	(-70, 69)	22	28	(-80, 40)	15
1089	B80P3M2P	3--9		42	(-80, -40)	35		SAME	
1090	B80P3M2S	3--10		118	(-50, 30)	48	74	(-80, 40)	76
1091	B80P8M2P	3--11		52	(-50, 30)	7	11	(-80, 40)	18
1092	B80P8M2S	3--12		31	(-50, 30)	16	26	(-80, 40)	15
1093	B80COMFP	3--13	YES	0	(-0, 0)	0		SAME	
1094	B80COMFS	3--14		42	(-20, 77)	9	7	(-50, -79)	30
1095	B80P9MFP	3--15		37	(-50, 30)	16	36	(-80, 40)	33
1096	B80P9MFS	3--16		112	(-60, -76)	51		SAME	
1097	B80CDF1P	3--17		39	(-80, 40)	47		SAME	
1098	B80CDF1S	3--18		129	(-80, -40)	114		SAME	
1099	B80P6F1P	3--19		32	(-80, 40)	36		SAME	
1100	B80P6F1S	3--20		30	(-0, 69)	9	26	(-70, 1)	-2
1101	B80S4Z2P	3--21		94	(-80, 40)	87		SAME	
1102	B80S4Z2S	3--22		198	(-50, -30)	122	193	(-80, 40)	196
1103	B80S8Z2P	3--23		63	(-80, 40)	61		SAME	
1104	B80S8Z2S	3--24		148	(-80, 40)	132		SAME	
1105	B80S4M2P	3--25		36	(-60, -76)	19	25	(-80, -40)	30
1106	B80S4M2S	3--26		83	(-50, -30)	18	37	(-80, 40)	36
1107	B80S8M2P	3--27		36	(-50, -30)	5	8	(-80, 40)	6
1108	B80S8M2S	3--28		9077	(-50, -30)	30	35	(-70, 1)	-339
1109	B8057MFP	3--29		47	(-50, 30)	4	4	(-70, 1)	9
1110	B8057MFS	3--30		43	(-10, 64)	12	14	(-40, 40)	35
1111	B8056F1P	3--31		31	(-50, -30)	22	27	(-70, 1)	27
1112	B8056F1S	3--32		78	(-80, -30)	23	56	(-70, 69)	34
1113	B80CDHHRH	3--33		86	(-50, -30)	4	17	(-50, -79)	-4
1114	B80CDHHRD	3--34		87	(-80, -40)	91		SAME	
1115	B80CDHHRV	3--35		83	(-80, -40)	51		SAME	
1116	B80P711RV	3--36		32	(-50, -30)	9	15	(-80, 40)	12
1117	B80P711RD	3--37		21	(-20, 97)	8	8	(-30, 49)	21
1118	B80P711PW	3--38		48	(-80, 29)	42	51	(-80, -40)	44
1119	B80P11F1RV	3--39		37	(-70, 1)	29	35	(-80, 40)	31
1120	B80P11F1RD	3--40		79	(-70, 69)	16	23	(-20, -77)	63
1121	B80P11F1RH	3--41		58	(-20, -77)	42	49	(-80, -76)	42
1122	B80P12FFRV	3--42	YES	0	(-0, 0)	0		SAME	
1123	B80P12FFRD	3--43		32	(-50, -30)	0	30	(-60, 76)	26
1124	B80P12FFRH	3--44		23	(-80, -40)	17	17	(-70, 69)	23
1125	B805711RH	3--45		82	(-80, -40)	79		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT [VERT. LAT.]	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT [VERT. LAT.]	MEASURED STRAIN
1126	B80S711RD	3-A-46	YES	0	[ 0, 0]	0		SAME	
1127	B80S711RV	3-A-47		67	[-10, 64]	23	28	[-60, 16]	49
1128	B80S11F1RH	3-A-48		32	[-50, -30]	-4	4	[-50, 29]	15
1129	B80S11F1RD	3-A-49		77	[-80, -40]	74	79	[-70, -69]	77
1130	B80S11F1RV	3-A-50		63	[-70, -69]	50	51	[-60, -76]	63
1131	B80S12FFRH	3-A-51		16	[-60, 16]	14		SAME	
1132	B80S12FFRD	3-A-52	YES	1	[ 0, -69]	0	0	[ 40, -40]	-1
1133	B80S12FFRV	3-A-53		40	[-50, -75]	34	36	[-70, -69]	38
1134	H84 5521P(CU)	3-A-54		197	[-60, 16]	196		SAME	
1135	H101P20P(UC)	3-A-55		64	[-70, -69]	64	65	[-80, -40]	62
1136	H100P20P(AC)	3-A-56		53	[-80, 40]	55	57	[-70, -69]	53
1137	B98C0HMP(C)	3-A-57		43	[ 80, 40]	48		SAME	
1138	M101 3COW(C)	3-A-58		104	[-80, -40]	98		SAME	
1139	M101 3COW(C)	3-A-59		25	[ 50, -30]	7	8	[-80, -40]	2
1140	B80CMP(D)	3-A-60		10	[-10, -74]	1	5	[-80, -40]	6
1141	M73P13P	3-A-1		268	[-80, -40]	258		SAME	
1142	M73P12W	3-A-2		512	[-70, -69]	501		SAME	
1143	M73P10 1P	3-A-3		427	[-70, -69]	412		SAME	
1144	M73P8W	3-A-4		347	[-80, -40]	353		SAME	
1145	M73P6W	3-A-5		330	[-80, -40]	338		SAME	
1146	M73P2W	3-A-6		310	[-60, -40]	315		SAME	
1147	M73C0W	3-A-7		318	[-80, -40]	318		SAME	
1148	M73S2W	3-A-8		270	[-80, -40]	269		SAME	
1149	M73S4W	3-A-9		510	[-70, -69]	514		SAME	
1150	M73S6W	3-A-10		236	[-70, -11]	242		SAME	
1151	M73S8W	3-A-11		238	[-70, -11]	251		SAME	
1152	M73S9W	3-A-12		264	[-70, -11]	267		SAME	
1153	M73S9 5P	3-A-13	YES	0	[ 0, 0]	0		SAME	
1154	M73S10 1P	3-A-14		287	[-70, -11]	279		SAME	
1155	M73S11W	3-A-15		306	[-60, 16]	299	299	[-70, -11]	304
1156	M73S11 5P	3-A-16		272	[-60, 16]	268		SAME	
1157	M73S12P	3-A-17		307	[-60, 16]	301		SAME	
1158	M73S12 5P	3-A-18		336	[-70, -11]	324	327	[-60, 16]	332
1159	M73S13P	3-A-19		340	[-60, 16]	338		SAME	
1160	Z73C0W	3-A-20		467	[-80, -40]	469		SAME	
1161	Z73S2W	3-A-21		474	[-80, -40]	480		SAME	
1162	Z73S4W	3-A-22		410	[-80, -40]	418		SAME	
1163	Z73S6W	3-A-23		487	[-80, -40]	530		SAME	
1164	Z73S8W	3-A-24		531	[-80, -40]	540		SAME	
1165	Z73S9W	3-A-25		524	[-80, -40]	525		SAME	
1166	Z73S9 5P	3-A-26		555	[-80, -40]	522	526	[-70, -11]	552
1167	Z73S10W	3-A-27		634	[-80, -40]	634		SAME	
1168	Z73S11P	3-A-28		8240	[ 50, -30]	-506	612	[-80, -40]	220
1169	Z73P6W	3-A-29		589	[-80, -40]	630		SAME	
1170	Z73P10W	3-A-30		620	[-80, -40]	628		SAME	
1171	W73SM20 1P	3-A-31		305	[-70, -11]	298		SAME	
1172	W73SM22 0W	3-A-32		261	[-60, 16]	243	250	[-70, -11]	245
1173	W73SM23 9P	3-A-33		557	[-80, -40]	542	550	[-70, -11]	555
1174	H78S20P(CL)	3-A-34		183	[-50, 29]	183		SAME	
1175	H73S1W	3-A-35		436	[ 80, 40]	429		SAME	
1176	H73S3W	3-A-36		417	[ 80, 40]	406		SAME	
1177	H73P3W	3-A-37		441	[ 80, 40]	447		SAME	
1178	H73S5W	3-A-38		368	[ 80, 40]	365		SAME	
1179	H73S7W	3-A-39		382	[ 80, 40]	385		SAME	
1180	H73P7W	3-A-40		233	[ 70, 11]	247		SAME	
1181	H73S9W	3-A-41		356	[ 70, 69]	360		SAME	
1182	H73S11W	3-A-42	YES	0	[ 0, 0]	0		SAME	
1183	H73P11W	3-A-43		241	[ 50, -30]	218	228	[ 70, 11]	237
1184	H73S12W	3-A-44		377	[ 70, 69]	386		SAME	
1185	H73S13W	3-A-45		378	[ 70, 69]	376		SAME	
1186	H73P13W	3-A-46		262	[ 50, -30]	243	245	[ 60, 16]	242
1187	H73S14W	3-A-47		322	[ 70, 69]	321		SAME	
1188	H73S15W	3-A-48		247	[ 60, 76]	251		SAME	
1189	H73P15W	3-A-49		207	[-20, -77]	163	169	[ 0, -69]	146
1190	H73S16 5P	3-A-50		193	[ 40, 80]	189	192	[ 30, 79]	181
1191	H73P16 5P	3-A-51		204	[-60, -76]	200	204	[-50, -79]	204
1192	H73S18W	3-A-52	YES	0	[ 0, 0]	0	2	[ 80, 40]	0
1193	H73S20W	3-A-53		285	[-60, 16]	280		SAME	
1194	H73P20W	3-A-54		451	[-70, -69]	455		SAME	
1195	H79 5518P(AC)	3-A-55		42	[ 0, -69]	36	45	[ 50, -30]	4
1196	198 1COP(C)	3-A-56		97	[-80, -40]	97		SAME	
1197	B98S6HMP(C)	3-A-57		184	[ 80, 40]	195		SAME	
1198	H17S17W(C)	3-A-58		36	[-70, -11]	44		SAME	
1199	RESISTOR	3-A-59		37	[ 0, 0]	0	8	[-70, -69]	16
1200	H76S19(D)	3-A-60		1494	[ 20, -57]	-1	2	[ 40, 80]	-300

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1201	Z75COW	3-B-1		429	(-80, -40)	426		SAME	
1202	Z77COW	3-B-2		400	(-80, -40)	406		SAME	
1203	Z79COW	3-B-3		327	(-80, -40)	335		SAME	
1204	Z79 SCOW	3-B-4	YES	0	(0, 0)	0		SAME	
1205	Z83COW	3-B-5		270	(-80, -40)	284		SAME	
1206	Z85COW	3-B-6		183	(-80, -40)	189		SAME	
1207	W83P2M3 9P	3-B-7		324	(-70, -69)	318	320	(-80, -40)	322
1208	Z83P6W	3-B-8		344	(-80, -40)	342		SAME	
1209	RESISTOR	3-B-9	YES	0	(0, 0)	0		(-80, -40)	0
1210	Z83S6A	3-B-10		240	(-80, -40)	247		SAME	
1211	Z79 556W	3-B-11		331	(-80, -40)	349		SAME	
1212	Z79 559 9P	3-B-12		382	(-70, -1)	374		SAME	
1213	W83SM20 1P	3-B-13	YES	0	(0, 0)	0		SAME	
1214	W83SM22 OW	3-B-14		159	(-70, -1)	138		SAME	
1215	W83SM23 9P	3-B-15	YES	0	(0, 0)	0		SAME	
1216	M75COW	3-B-16		220	(-70, -1)	216		SAME	
1217	M755 1P	3-B-17		280	(-70, -1)	280		SAME	
1218	M755 13P	3-B-18		294	(-80, -16)	290		SAME	
1219	M77COW	3-B-19		326	(-80, -40)	320		SAME	
1220	M77S 10 1P	3-B-20		339	(-70, -1)	3		SAME	
1221	M77S 13P	3-B-21		247	(-50, -29)	239	240	(-60, -16)	245
1222	B80P611W(C)	3-B-22		58	(-50, -30)	-8	27	(-80, -40)	17
1223	M79 13P	3-B-23	YES	0	(0, 0)	0		SAME	
1224	M79COW	3-B-24		289	(-80, -40)	288		SAME	
1225	M79S 10 1P	3-B-25		220	(-70, -1)	221		SAME	
1226	M79S 13P	3-B-26		174	(-60, -16)	177		SAME	
1227	M85COW	3-B-27		224	(-80, -40)	225		SAME	
1228	M81S 10 1P	3-B-28		178	(-70, -1)	181		SAME	
1229	M81S 13P	3-B-29		196	(-60, -16)	200	201	(-70, -1)	192
1230	M81P 10 1P	3-B-30		273	(-70, -69)	259		SAME	
1231	M81P 13P	3-B-31		33	(-70, -69)	323		SAME	
1232	M83COW	3-B-32	YES	0	(0, 0)	0		SAME	
1233	M83S 10 1P	3-B-33		190	(-70, -1)	187		SAME	
1234	M83S 13P	3-B-34		239	(-60, -16)	238	239	(-70, -1)	239
1235	M81COW	3-B-35		280	(-80, -40)	278		SAME	
1236	M85S 10 1P	3-B-36		174	(-70, -1)	172		SAME	
1237	M85S 13P	3-B-37		141	(-60, -16)	138		SAME	
1238	M85P 10 1P	3-B-38		294	(-80, -40)	300		SAME	
1239	M85P 13P	3-B-39		229	(-70, -69)	232		SAME	
1240	F81 55 (RINS) (B)	3-B-40		48	(-20, -57)	35	41	(-20, -77)	44
1241	M81S 5P	3-B-41		282	(-80, -40)	283		SAME	
1242	M83S 5P	3-B-42	YES	0	(0, 0)	0		SAME	
1243	M83P 10 1P	3-B-43		292	(-70, -69)	296		SAME	
1244	M83P 13P	3-B-44	YES	0	(0, 0)	0		SAME	
1245	I73COP	3-B-45		157	(-80, -40)	158		SAME	
1246	I77COP	3-B-46		210	(-80, -40)	217		SAME	
1247	I81COP	3-B-47		193	(-80, -40)	203		SAME	
1248	F81COWA	3-B-48		15	(-80, -40)	14	14	(-70, -1)	13
1249	F85COWA	3-B-49		45	(-80, -40)	38		SAME	
1250	B80P8MMRH	3-B-50		27	(-30, -79)	16		SAME	
1251	B80P8MMRD	3-B-51		50	(-70, -69)	46		SAME	
1252	B80P8MFRV	3-B-52	YES	2	(-60, -76)	0	0	(-70, -69)	0
1253	B80P8MFRH	3-B-53		71	(-70, -69)	66	67	(-80, -40)	67
1254	B80P8MFRD	3-B-54		81	(-70, -69)	69	70	(-80, -40)	79
1255	B80P8MFRV	3-B-55		10	(-20, -77)	0	4	(-70, -1)	13
1256	I85COP	3-B-56		257	(-80, -40)	252		SAME	
1257	RESISTOR	3-B-57	YES	0	(0, 0)	0	1	(-80, -40)	0
1258	RESISTOR	3-B-58		25	(-0, -69)	2	5	(-70, -69)	15
1259	RESISTOR	3-B-59		657	(-10, -74)	138	258	(-70, -69)	289
1260	H83P19(D)	3-B-60		10	(-20, -77)	-3	3	(-10, -64)	8
1261	B86C0Z2P	2- -1		84	(-80, -40)	91		SAME	
1262	B86C0Z2S	2- -2		316	(-80, -40)	320		SAME	
1263	B86P3Z2P	2- -3		59	(-80, -40)	59		SAME	
1264	B86P3Z2S	2- -4		212	(-80, -40)	217		SAME	
1265	B86P8Z2P	2- -5		41	(-70, -1)	48	54	(-80, -40)	41
1266	B86P8Z2S	2- -6		145	(-80, -40)	145		SAME	
1267	B86COMZP	2- -7		8	(-80, -40)	5	5	(-70, -69)	6
1268	B86COMZS	2- -8		60	(-60, -16)	47	82	(-80, -40)	56
1269	B86P3MZP	2- -9		25	(-10, -64)	1	15	(-80, -40)	3
1270	B86P3MZS	2- -10		18	(-10, -64)	3	4	(-60, -29)	10
1271	B86P8MZP	2- -11		12	(-40, -80)	10	10	(-60, -76)	10
1272	B86P8MZS	2- -12		24	(-20, -67)	14	16	(-60, -16)	20
1273	B86COMFP	2- -13		10	(0, 0)	0	2	(-40, -80)	8
1274	B86COMFS	2- -14		148	(-80, -40)	148		SAME	
1275	B86P9MFP	2- -15		31	(-80, -40)	26		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1276	B86P9MFS	2- -16		47	(-20, 57)	30	35	(-60, 16)	43
1277	B86COP1P	2- -17		22	(-80, -40)	14		SAME	
1278	B86COP1S	2- -18		13	(-70, -59)	16	17	(-80, 40)	11
1279	B86P6F1P	2- -19		23	(-70, -11)	24	24	(-80, -40)	19
1280	B86P6F1S	2- -20	YES	35	(-80, -40)	35		SAME	
1281	B86S4Z2P	2- -21		21	(-70, 11)	24	27	(-80, 40)	21
1282	B86S4Z2S	2- -22		153	(-80, -40)	151		SAME	
1283	B86S4Z7P	2- -23		58	(-80, 40)	61		SAME	
1284	B86S6Z2S	2- -24	YES	143	(-80, -46)	143		SAME	
1285	B86S4M2P	2- -25		12	(-10, 64)	0	6	(-80, 40)	2
1286	B86S4M2S	2- -26		64	(-80, 40)	70		SAME	
1287	B86S8M2P	2- -27		22	(-10, -64)	9	11	(-50, -30)	13
1288	B86S8M2S	2- -28		23	(-30, -79)	19	25	(-70, -69)	11
1289	B86S2MFP	2- -29		22	(-70, -11)	26	28	(-80, -40)	22
1290	B86S2MFS	2- -30		76	(-60, -18)	8	17	(-70, 69)	13
1291	B86S6F1P	2- -31		28	(-50, -79)	18	21	(-70, -69)	22
1292	B86S6F1S	2- -32		33	(-80, -40)	37		SAME	
1293	B86COHHRH	2- -33		14	(-80, 40)	15	15	(-70, 69)	10
1294	B86COHHRD	2- -34		7	(-50, 29)	7		SAME	
1295	B86COHHRV	2- -35		62	(-80, -40)	57		SAME	
1296	B86P71IRV	2- -36	YES	2	(-0, 0)	0	1	(-70, 69)	0
1297	B86P71IRD	2- -37		33	(-40, 80)	29	32	(-70, 69)	31
1298	B86P71IRH	2- -38		48	(-80, -40)	42		SAME	
1299	B86P11F1RV	2- -39		41	(-40, 80)	20	20	(-50, 79)	24
1300	B86P11F1RH	2- -40	YES	0	(-0, 0)	0	0	(-80, 40)	0
1301	B86P11F1RD	2- -41		52	(-80, -40)	49		SAME	
1302	B86P12FFRV	2- -42		25	(-40, 80)	23	25	(-60, 76)	23
1303	B86P12FFRD	2- -43		75	(-80, 40)	73		SAME	
1304	B86P12FFRH	2- -44		26	(-70, 69)	25	26	(-80, 40)	22
1305	B86S71IRH	2- -45		105	(-80, -40)	103		SAME	
1306	B86S71IRD	2- -46		93	(-80, -40)	91		SAME	
1307	B86S71IRV	2- -47		36	(-20, -77)	21	32	(-70, -69)	14
1308	B86S11F1RH	2- -48		103	(-20, -77)	35	80	(-80, -40)	73
1309	B86S11F1RD	2- -49		37	(-80, -40)	33		SAME	
1310	B86S11F1RV	2- -50		33	(-30, -79)	27	27	(-40, -80)	31
1311	B86S12FFRH	2- -51		14	(-60, -75)	4	4	(-30, -79)	10
1312	B86S12FFRD	2- -52		40	(-60, -16)	37	39	(-70, 11)	40
1313	B86S12FFRV	2- -53		38	(-30, -49)	32	36	(-60, -16)	38
1314	H84 5521P(LCM)	2- -54		172	(-50, 29)	165		SAME	
1315	H84 5521P(CL)	2- -55		178	(-50, 29)	177	178	(-60, 16)	178
1316	RESISTOR	2- -56		14	(-0, 0)	0	2	(-10, 74)	-4
1317	RESISTOR	2- -57		11	(-0, 0)	0	2	(-50, 79)	-3
1318	RESISTOR	2- -58		9	(-0, 0)	0	3	(-60, 76)	-1
1319	RESISTOR	2- -59		17	(-0, 0)	0	4	(-70, 69)	-3
1320	W76P3M2(FD)	2- -60		47	(-30, 79)	-2	7	(-20, -57)	-30
1321	B92C0Z2P	2-A- 1		179	(-70, 69)	170	173	(-80, 40)	169
1322	B92C0Z2S	2-A- 2		315	(-80, -40)	311		SAME	
1323	B92P4Z2P	2-A- 3		30	(-60, -16)	27	48	(-70, 69)	22
1324	B92P4Z2S	2-A- 4		149	(-80, -40)	144		SAME	
1325	B92P8Z2P	2-A- 5		126	(-70, 11)	91	111	(-80, 40)	114
1326	B92P8Z2S	2-A- 6		77	(-50, 79)	42	48	(-70, 69)	65
1327	B92COMZP	2-A- 7		58	(-60, 76)	30	31	(-70, 69)	50
1328	B92COMZS	2-A- 8		24	(-30, 79)	9	10	(-10, 64)	4
1329	B92P4M2P	2-A- 9		41	(-30, 79)	34	44	(-70, 69)	33
1330	B92P4M2S	2-A-10		64	(-10, 64)	9	21	(-70, -11)	-3
1331	B92P8M2P	2-A-11		57	(-10, 64)	41	87	(-50, 29)	21
1332	B92P8M2S	2-A-12		344	(-0, 0)	0	39	(-70, -11)	-49
1333	B92COMFP	2-A-13		59	(-0, 0)	0	9	(-40, 40)	-2
1334	B92COMFS	2-A-14		126	(-80, -40)	133		SAME	
1335	B92P8MFP	2-A-15		61	(-60, 16)	64	70	(-80, -40)	58
1336	B92P8MFS	2-A-16		113	(-70, -69)	114	123	(-80, -40)	107
1337	B92COP1P	2-A-17		997	(-10, -74)	34	36	(-40, -80)	-24
1338	B92COP1S	2-A-18		173	(-0, -69)	-4	12	(-70, 69)	-21
1339	B92P6F1P	2-A-19		39	(-70, -11)	46	47	(-80, -40)	33
1340	B92P6F1S	2-A-20	YES	43	(-70, -69)	32	36	(-80, -40)	41
1341	B92S4Z2P	2-A-21		64	(-20, -79)	37	37	(-40, -80)	68
1342	B92S4Z2S	2-A-22		200	(-10, 64)	62	144	(-70, -11)	107
1343	B92S8Z2P	2-A-23		51	(-50, -30)	54	63	(-70, 11)	43
1344	B92S8Z2S	2-A-24	YES	109	(-10, -76)	100	115	(-80, -40)	65
1345	B92S4M2P	2-A-25		73	(-30, -79)	9	9	(-20, -77)	73
1346	B92S4M2S	2-A-26		30	(-0, -69)	30	44	(-60, 16)	21
1347	B92S8M2P	2-A-27		74	(-70, -69)	68		SAME	
1348	B92S8M2S	2-A-28		67	(-40, -80)	37	60	(-80, -40)	40
1349	B92S2MFP	2-A-29		8	(-0, -69)	1	1	(-40, -80)	-4
1350	B92S2MFS	2-A-30		25	(-50, 29)	21	29	(-80, -40)	17

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	A MAXIMUM MEASURED STRAIN			B MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	B MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	B MOMENT (VERT. LAT)	MEASURED STRAIN
1351	B9256F1P	2-A-31		56	(-70, -69)	51	56	(-80, -40)	54
1352	B9256F1S	2-A-32		33	(-60, 16)	31	36	(-80, -40)	33
1353	B92P 2HRRH	2-A-33		39	(-20, 57)	28	40	(-70, -11)	37
1354	B92P 2HHRD	2-A-34		63	(-80, -40)	62		SAME	
1355	B92P 2HHRV	2-A-35		13	(-70, -11)	6		SAME	
1356	B92P711RV	2-A-36	YES	5	(0, 0)	0	1	(-70, -11)	1
1357	B92P711RD	2-A-37		84	(-80, -40)	88		SAME	
1358	B92P711RH	2-A-38		74	(-80, -40)	77		SAME	
1359	B92P711RV	2-A-39		26	(-30, 49)	8	18	(-50, 79)	10
1360	B92P111RD	2-A-40	YES	0	(0, 0)	0	0	(-60, 76)	0
1361	B92P111RH	2-A-41		57	(-70, -69)	40	48	(-80, -40)	53
1362	B92P111SFRV	2-A-42		24	(-70, -69)	32		SAME	
1363	B92P111SFRD	2-A-43		55	(-70, -69)	43	44	(-80, 40)	49
1364	B92P111SFRH	2-A-44		30	(-80, -40)	29	40	(-60, 76)	24
1365	B92S711RH	2-A-45		59	(-80, -40)	54		SAME	
1366	B92S711RD	2-A-46		32	(-60, 16)	30	31	(-70, -11)	30
1367	B92S711RV	2-A-47		45	(-70, -69)	40		SAME	
1368	B92S711RH	2-A-48		74	(-80, -40)	67	68	(-70, -69)	68
1369	B92S111RD	2-A-49		11	(-50, 79)	7	7	(-40, 80)	5
1370	B92S111RV	2-A-50		58	(0, 0)	0	12	(-80, -40)	5
1371	B92S111SFRH	2-A-51		49	(0, -69)	38	39	(-20, -77)	28
1372	B92S111SFRD	2-A-52		35	(-70, -11)	23	27	(-50, -30)	28
1373	B92S111SFRV	2-A-53		25	(-30, 49)	17	20	(-60, -16)	12
1374	F91S111 9P(BB)	2-A-54		108	(-40, -40)	97	107	(-70, -11)	96
1375	M87 5P10S(PST)	2-A-55		28	(-70, -69)	236		SAME	
1376	RESISTOR	2-A-56		0	(0, 0)	0	7	(-70, -11)	2
1377	RESISTOR	2-A-57	YES	0	(0, 0)	0	191	(-80, -40)	0
1378	RESISTOR	2-A-58		47	(0, 0)	0	4	(-70, -69)	4
1379	RESISTOR	2-A-59	YES	0	(0, 0)	0	8	(-80, 40)	0
1380	M79 5C0(D)	2-A-60		15	(-40, -80)	6	6	(-70, -69)	7
1381	M93 6P8	2-B-1		269	(-80, -40)	266		SAME	
1382	M93 6P8 5P	2-B-2		263	(-80, -40)	265		SAME	
1383	M93 6P9W	2-B-3		270	(-80, -40)	271		SAME	
1384	M93 6P9 5P	2-B-4		196	(-80, -40)	200		SAME	
1385	M93 6P10W	2-B-5		279	(-70, -69)	271	277	(-80, -40)	276
1386	M93 6P11W	2-B-6		236	(-80, -40)	240		SAME	
1387	M92 8P8	2-B-7		136	(-70, -69)	121		SAME	
1388	M92 8P8 5RH	2-B-8		154	(-80, 40)	158		SAME	
1389	M92 8P8 5RD	2-B-9		102	(-40, -80)	94	95	(-30, -79)	102
1390	M92 8P8 5RL	2-B-10		349	(-80, -40)	350		SAME	
1391	M92 8P9W	2-B-11		321	(-80, -40)	323		SAME	
1392	M92 8P9 5P	2-B-12		226	(-80, -40)	233		SAME	
1393	M92 8P10A	2-B-13		277	(-80, -40)	279		SAME	
1394	M92 8P11W	2-B-14		207	(-70, -69)	203		SAME	
1395	M92 8P12W	2-B-15		223	(-70, -69)	223		SAME	
1396	M92 2P8W	2-B-16		119	(-50, -79)	104	106	(-60, -76)	115
1397	H85 9P17P(LP)	2-B-17		114	(-40, -80)	113		SAME	
1398	M92 2P8 5P	2-B-18		104	(-50, -30)	111	112	(-40, -40)	96
1399	B92P7HMS(C)	2-B-19		154	(-80, -40)	155		SAME	
1400	M92 3P9S	2-B-20		284	(-70, -69)	291	296	(-80, -40)	280
1401	M92 3P9 2RH	2-B-21		64	(-70, -69)	70		SAME	
1402	M92 3P9 2RD	2-B-22		76	(0, -69)	66	72	(-30, -49)	61
1403	M92 3P9 2RL	2-B-23		341	(-80, -40)	350		SAME	
1404	M92 3P9 5P	2-B-24	YES	439	(-80, -40)	448		SAME	
1405	M92 3P10S	2-B-25		280	(-80, -40)	275		SAME	
1406	M92 3P11S	2-B-26		229	(-70, -69)	224		SAME	
1407	M92 3P12S	2-B-27		238	(-80, -40)	238		SAME	
1408	M91 6P8S	2-B-28		327	(-80, -40)	344		SAME	
1409	M91 6P8 2P	2-B-29		226	(-70, -69)	229		SAME	
1410	M91 6P8 5P	2-B-30		242	(-70, -69)	244	249	(-80, -40)	240
1411	M91 6P9W	2-B-31		219	(-80, -40)	195	198	(-70, -69)	219
1412	M91 6P9 5P	2-B-32		224	(-70, -69)	222		SAME	
1413	M91 6P9 7RL	2-B-33		211	(-70, -69)	218		SAME	
1414	M91 6P9 7RH	2-B-34		264	(-70, -11)	317	330	(-80, 40)	256
1415	M91 6P9 7RD	2-B-35		76	(-70, -69)	82		SAME	
1416	M91 6P10W	2-B-36	YES	3	(-20, -49)	0	2	(-80, 40)	3
1417	M91 6P11W	2-B-37		280	(-80, -40)	284		SAME	
1418	M91 6P12W	2-B-38		258	(-70, -69)	249	260	(-80, -40)	234
1419	H66 1P19P(HSU)	2-B-39		508	(-80, 40)	522		SAME	
1420	H86 1P19P(HSL)	2-B-40	YES	0	(0, 0)	0	0	(-80, 40)	0
1421	B64S 1MPP(CUST)	2-B-41		49	(-10, -84)	11	12	(-20, -77)	34
1422	H71 9P19P(C)	2-B-42		281	(-40, -60)	219		SAME	
1423	H71P9P(C)	2-B-43		231	(-70, -11)	224		SAME	
1424	B64P8 5MFRV(BB)	2-B-44		49	(-60, -76)	45	48	(-70, -69)	47
1425	B64P8 5MFRD(BB)	2-B-45		188	(-80, -40)	187		SAME	



TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1426	Ø64P8 SMFRH(BB)	2-B-46		85	(-80, -40)	92		SAME	
1427	M80S95(SU)	2-B-47		76	(-40, 40)	73	74	(-30, 49)	74
1428	M80S95(SL)	2-B-48		67	(-60, 16)	68	72	(-70, -1)	67
1429	H79 5518P(FC)	2-B-49		44	(-40, -40)	39	40	(-30, -49)	40
1430	H79S20P(CU)	2-B-50		159	(-20, 57)	158		SAME	
1431	RESISTOR	2-B-51		28	(-0, 69)	3	5	(-60, 76)	2
1432	RESISTOR	2-B-52		15	(-0, 69)	0	2	(-80, -40)	-1
1433	RESISTOR	2-B-53	YES	0	(-0, 0)	0	18	(-80, -40)	0
1434	RESISTOR	2-B-54	YES	0	(-0, 0)	0	17	(-80, -40)	0
1435	RESISTOR	2-B-55		13	(-0, 0)	0	5	(-60, 76)	3
1436	RESISTOR	2-B-56		14	(-0, 0)	0	3	(-50, 79)	-2
1437	RESISTOR	2-B-57		25	(-0, 65)	3	4	(-60, 76)	0
1438	RESISTOR	2-B-58		12	(-0, 69)	2	3	(-40, 80)	-10
1439	RESISTOR	2-B-59	YES	0	(-0, 0)	0	11	(-80, -40)	0
1440	H89P19(D)	2-B-60		14	(-20, -77)	0	2	(-70, 1)	-4
1441	Z87CDW	1-B-1		157	(-80, -40)	161		SAME	
1442	Z89CDW	1-B-2		149	(-80, -40)	141		SAME	
1443	Z91CDW	1-B-3		61	(-80, -40)	45		SAME	
1444	W91 9SMZO 1RL	1-B-4	YES	30	(-20, 57)	19	19	(-40, 40)	26
1445	W91 9SMZO 1RD	1-B-5		730	(-80, -40)	757		SAME	
1446	W91 9SMZO 1RY	1-B-6		66	(-0, 69)	35	44	(-50, -30)	48
1447	M87CDW	1-B-7		256	(-80, -40)	255		SAME	
1448	M8759 1P	1-B-8		241	(-80, 16)	177	187	(-70, -1)	231
1449	M87512	1-B-9		152	(-70, -1)	157		SAME	
1450	M89CDW	1-B-10	YES	0	(-0, 0)	0		SAME	
1451	M8959 1P	1-B-11		173	(-70, -1)	178		SAME	
1452	M89512	1-B-12	YES	0	(-0, 0)	0		SAME	
1453	M89P9 1P	1-B-13		259	(-70, -69)	230		SAME	
1454	M89P12	1-B-14	YES	0	(-0, 0)	0		SAME	
1455	M91CDW	1-B-15		172	(-70, -1)	172	162	(-80, -40)	162
1456	M9159 1P	1-B-16		162	(-70, -1)	180		SAME	
1457	M91512	1-B-17		198	(-70, -1)	198		SAME	
1458	M93CDW	1-B-18	YES	0	(-0, 0)	0		SAME	
1459	M93512	1-B-19		151	(-70, -1)	138		SAME	
1460	M93P12	1-B-20	YES	0	(-0, 0)	0		SAME	
1461	M97CDW	1-B-21		121	(-80, -40)	127		SAME	
1462	M97512	1-B-22		40	(-10, 64)	44	44	(-20, 57)	40
1463	M97P12	1-B-23		83	(-70, -69)	80		SAME	
1464	M99CDW	1-B-24		116	(-80, -40)	123		SAME	
1465	M99512	1-B-25		39	(-50, 29)	38	39	(-60, 16)	37
1466	M101CDW	1-B-26		102	(-80, -40)	103		SAME	
1467	M101S12	1-B-27		78	(-70, -1)	79		SAME	
1468	M101P12	1-B-28	YES	0	(-0, 0)	0		SAME	
1469	M103CDW	1-B-29		83	(-80, -40)	2	3	(-40, -80)	45
1470	M103S11	1-B-30		85	(-70, -1)	81		SAME	
1471	M105CDW	1-B-31		111	(-80, -40)	104		SAME	
1472	M105S11	1-B-32		114	(-80, -40)	110		SAME	
1473	M105P11	1-B-33	YES	0	(-0, 0)	0		SAME	
1474	M107S11	1-B-34		63	(-70, -1)	66		SAME	
1475	M107CDW	1-B-35		159	(-80, -40)	167		SAME	
1476	F89CDNA	1-B-36		8	(-50, -79)	4	5	(-80, -40)	4
1477	F89COP	1-B-37		144	(-80, 40)	147		SAME	
1478	F93CDNA	1-B-38		46	(-80, 40)	52		SAME	
1479	F93COP	1-B-39	YES	0	(-0, 0)	0		SAME	
1480	F87CDNA	1-B-40		51	(-80, 40)	49		SAME	
1481	F47COP	1-B-41		119	(-80, 40)	121		SAME	
1482	F101CDNA	1-B-42		147	(-80, 40)	157		SAME	
1483	F101COP	1-B-43		70	(-80, -40)	-26	26	(-80, 40)	35
1484	F105CDNA	1-B-44		155	(-80, 40)	134		SAME	
1485	F105COP	1-B-45		53	(-80, -40)	57		SAME	
1486	ASM279C120	1-B-46		494	(-80, -40)	489		SAME	
1487	ASM279C112(RES)	1-B-47		334	(-80, -40)	337		SAME	
1488	ASM279C315	1-B-48		1382	(-80, -40)	1352		SAME	
1489	ASM287C308	1-B-49		1340	(-70, -1)	1290	1380	(-80, -40)	1249
1490	ASM287C300	1-B-50		1244	(-80, -40)	1246		SAME	
1491	ASM287C293	1-B-51		1050	(-80, -40)	1058		SAME	
1492	ASM287RVMP	1-B-52		244	(-70, -1)	239		SAME	
1493	ASM287ROMP	1-B-53		250	(-70, 69)	253		SAME	
1494	ASM287RLMP	1-B-54		119	(-80, 40)	126		SAME	
1495	B9257M2P(BM)	1-B-55		102	(-70, -69)	63		SAME	
1496	B2257M2S(BM)	1-B-56		182	(-70, -69)	134	153	(-80, -40)	143
1497	RESISTOR	1-B-57		8	(-20, 57)	-1	2	(-70, 1)	-1
1498	RESISTOR	1-B-58		10	(-70, -1)	6	6	(-80, -40)	10
1499	RESISTOR	1-B-59	YES	0	(-0, 0)	0		SAME	
1500	H92P11(D)	1-B-60		16	(-20, -77)	0	1	(-70, 1)	-6

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	① MAXIMUM MEASURED STRAIN			② MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	① MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	② MOMENT (VERT, LAT)	MEASURED STRAIN
1501	B98CDMMS	1-A-1		396	(-80, -40)	389		SAME	
1502	B98CONMP	1-A-2		170	(-80, -40)	196		SAME	
1503	B98P4MMP	1-A-3		30	(-70, -69)	38	41	(-80, -40)	24
1504	B98P4MMS	1-A-4	YES	0	(-0, -0)	0		SAME	
1505	B98P9MMP	1-A-5		124	(-80, -40)	115		SAME	
1506	B98P9MMS	1-A-6		139	(-60, -76)	115	139	(-80, -40)	106
1507	B98COMFP	1-A-7		58	(-0, -0)	0	58	(-70, -69)	56
1508	B98COMFS	1-A-8		51	(-10, -74)	6	57	(-80, -40)	-4
1509	B98PSMFP	1-A-9		40	(-0, -0)	0	33	(-70, -69)	38
1510	B98PSMFS	1-A-10		66	(-50, -79)	91	110	(-70, -69)	78
1511	B98P6FIP	1-A-11		23	(-10, -64)	20	20	(-30, -49)	17
1512	B98COFIS	1-A-12	YES	0	(-0, -0)	0		SAME	
1513	B98COFIP	1-A-13		20	(-30, -79)	-7	9	(-60, -76)	-5
1514	B98P6FIS	1-A-14		29	(-80, -40)	24		SAME	
1515	B98S4MMP	1-A-15		41	(-80, -40)	58		SAME	
1516	B98S4MMS	1-A-16		136	(-80, -40)	126		SAME	
1517	B98P8MMP	1-A-17		53	(-70, -69)	72	73	(-80, -40)	43
1518	B98S8MMS	1-A-18		137	(-0, -0)	0	65	(-60, -76)	-10
1519	B98S3MFP	1-A-19		23	(-20, -77)	0	7	(-80, -40)	9
1520	B98S4MFS	1-A-20		31	(-40, -80)	19	30	(-80, -40)	9
1521	B98S6FIP	1-A-21		20	(-0, -0)	0	8	(-70, -69)	-5
1522	B98S6FIS	1-A-22		20	(-10, -64)	14	15	(-40, -40)	11
1523	B98P2MHRH	1-A-23		98	(-80, -40)	104		SAME	
1524	B98P2MHRD	1-A-24		68	(-80, -40)	47		SAME	
1525	B98P2MHRV	1-A-25		26	(-20, -77)	-4	11	(-60, -16)	0
1526	B98P711RD	1-A-26		69	(-40, -40)	47	58	(-70, -69)	53
1527	B98P711RV	1-A-27		117	(-40, -40)	-64	140	(-80, -40)	111
1528	B98P711RH	1-A-28		117	(-50, -29)	76	106	(-80, -40)	105
1529	B98P115FIRV	1-A-29		88	(-0, -0)	0	61	(-80, -40)	35
1530	B98P115FIRD	1-A-30		176	(-80, -40)	191		SAME	
1531	B98P115FIRH	1-A-31		149	(-80, -40)	138	140	(-70, -69)	147
1532	B98P119FFRV	1-A-32		42	(-10, -74)	40	41	(-30, -79)	39
1533	B98P119FFRD	1-A-33		212	(-80, -40)	206		SAME	
1534	B98P119FFRH	1-A-34		41	(-80, -40)	44	58	(-60, -76)	37
1535	B98S711RH	1-A-35		161	(-70, -69)	70	79	(-80, -40)	153
1536	B98S711RD	1-A-36		47	(-20, -57)	34	39	(-60, -16)	37
1537	B98S711RV	1-A-37		44	(-30, -79)	33	40	(-70, -69)	27
1538	B98S115FIRH	1-A-38		153	(-80, -40)	159	160	(-70, -69)	142
1539	B98S115FIRD	1-A-39		142	(-80, -40)	136		SAME	
1540	B98S115FIRV	1-A-40	YES	0	(-0, -0)	0	155	(-80, -40)	0
1541	B98S119FFRH	1-A-41		73	(-40, -80)	75	76	(-30, -79)	67
1542	B98S119FFRD	1-A-42		207	(-80, -40)	216		SAME	
1543	B98S119FFRV	1-A-43		31	(-0, -69)	20	21	(-20, -57)	21
1544	B98S10MFS	1-A-44		124	(-0, -69)	96	102	(-30, -49)	103
1545	B98S10MFP	1-A-45		96	(-30, -79)	77	95	(-70, -69)	62
1546	H100P20P1FC	1-A-46		376	(-50, -29)	379		SAME	
1547	ASMM77C15F	1-A-47		634	(-70, -69)	737	822	(-80, -40)	620
1548	ASMM77C25F	1-A-48		45	(-40, -80)	27	33	(-70, -69)	25
1549	ASMM77C35F	1-A-49		247	(-60, -16)	191	192	(-50, -29)	213
1550	ASMM77C45F	1-A-50		227	(-70, -69)	173	178	(-60, -16)	215
1551	ASMM77C55F	1-A-51		428	(-80, -40)	432		SAME	
1552	ASMM77C15A	1-A-52		287	(-60, -16)	262		SAME	
1553	ASMM77C25A	1-A-53		258	(-50, -29)	253		SAME	
1554	ASMM77C35A	1-A-54		77	(-80, -40)	78		SAME	
1555	ASMM77C45A	1-A-55		397	(-30, -49)	400	404	(-40, -40)	397
1556	ASMM77C55A	1-A-56		262	(-40, -40)	252	261	(-20, -57)	252
1557	ASMM77P35A05	1-A-57		705	(-80, -40)	708		SAME	
1558	ASMM77P35A15	1-A-58		465	(-80, -40)	467		SAME	
1559	ASMM77P35A20	1-A-59	YES	0	(-0, -0)	0		SAME	
1560	H103S19(D)	1-A-60		199	(-70, -69)	196		SAME	
1561	B108P9MFP	1-B-1		13	(-0, -69)	9	13	(-60, -16)	9
1562	B108COMMS	1-B-2		23	(-80, -40)	21		SAME	
1563	B108P4MMP	1-B-3		45	(-80, -40)	43		SAME	
1564	B108P8MMS	1-B-4	YES	0	(-0, -0)	0		SAME	
1565	B108P8MMP	1-B-5		23	(-70, -69)	26	26	(-80, -40)	23
1566	B108P8MMS	1-B-6		25	(-0, -0)	0	29	(-80, -40)	21
1567	RESISTOR	1-B-7		136	(-0, -0)	0	26	(-40, -80)	-15
1568	B108COMFS	1-B-8		37	(-40, -40)	19	29	(-80, -40)	22
1569	B108P4MFP	1-B-9		32	(-60, -29)	33	37	(-70, -69)	32
1570	B108P8MFS	1-B-10		61	(-80, -40)	74		SAME	
1571	RESISTOR	1-B-11		26	(-0, -69)	3	4	(-50, -79)	-2
1572	B108COFIS	1-B-12	YES	0	(-0, -0)	0		SAME	
1573	B108P6FIP	1-B-13		18	(-10, -64)	14	16	(-50, -29)	10
1574	B108P6FIS	1-B-14		6	(-80, -16)	3	4	(-10, -64)	0
1575	B108S4MMP	1-B-15		51	(-80, -40)	54		SAME	

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT, LAT)	MEASURED STRAIN
1576	B1085AMMS	1-B-16		42	(-80, -40)	38			
1577	B1085BMMP	1-B-17		31	(-80, -40)	33			
1578	B1085MMS	1-B-18		24	(-70, -11)	18	19	(-80, -40)	22
1579	B1085AMFP	1-B-19		47	(-80, -40)	37			
1580	B1085AMFS	1-B-20		69	(-80, 40)	74			
1581	B1085FP1P	1-B-21		21	(-80, -40)	26			
1582	B1085SFIS	1-B-22		31	(-80, 40)	23	24	(-70, 69)	25
1583	B108P 2MHRH	1-B-23		440	(-80, -40)	435			
1584	B108P 2MHRD	1-B-24		486	(-80, -40)	466			
1585	B108P 2MHRV	1-B-25	YES	0	(0, 0)	0			
1586	B108P711RV	1-B-26		45	(-80, 40)	52			
1587	B108P711RD	1-B-27		43	(-80, -69)	24	24	(-20, -77)	21
1588	B108P711RH	1-B-28		240	(-80, -40)	243			
1589	B108P10 SFIRV	1-B-29		126	(-80, 40)	120			
1590	B108P10 SFIRD	1-B-30		267	(-80, 40)	264			
1591	B108P10 SFIRM	1-B-31		70	(-80, -40)	70			
1592	B108P10 SFFRV	1-B-32		26	(-40, 40)	19	23	(-80, 69)	22
1593	B108P10 SFFRD	1-B-33		212	(-80, 40)	217			
1594	B108P10 SFFRH	1-B-34		12	(-70, -64)	10	13	(-50, -30)	12
1595	B1085711RH	1-B-35		214	(-80, -40)	215			
1596	B1085711RD	1-B-36		143	(-70, 69)	36			
1597	B1085711RV	1-B-37		38	(-80, 40)	42			
1598	B108510 SFIRM	1-B-38		178	(-80, -40)	179			
1599	B108510 SFIRD	1-B-39		183	(-80, 40)	189			
1600	B108510 SFIRV	1-B-40		216	(-80, 40)	224			
1601	B108510 SFFRH	1-B-41		83	(-50, -79)	82			
1602	B108510 SFFRD	1-B-42		131	(-80, -69)	128	130	(-10, -74)	129
1603	B108510 SFFRV	1-B-43		123	(-80, 69)	84	92	(-30, -79)	86
1604	B1089MFS	1-B-44		53	(-80, -40)	55			
1605	APMM77C1PA	1-B-45		621	(-70, -69)	620			
1606	APMM77C2PA	1-B-46		726	(-70, -69)	731			
1607	APMM77C3PA	1-B-47		641	(-70, -69)	649			
1608	APMM77C4PA	1-B-48		792	(-80, -40)	832			
1609	APMM77C5PA	1-B-49		376	(-70, -69)	328			
1610	APMM77P3PA0 5	1-B-50		423	(-70, -69)	422			
1611	APMM77P3PA1 5	1-B-51		374	(-70, -69)	372			
1612	APMM77P3PA3 0	1-B-52		332	(-70, -69)	333			
1613	APMM77C1PF	1-B-53		482	(-80, -40)	482			
1614	APMM77C2PF	1-B-54		504	(-80, -40)	497			
1615	APMM77C3PF	1-B-55		719	(-80, -40)	734			
1616	APMM77C4PF	1-B-56		432	(-70, -69)	440			
1617	APMM77C5PF	1-B-57		775	(-60, -40)	782			
1618	ASM279C135	1-B-58		703	(-80, -40)	695			
1619	ASM279C137	1-B-59		0	(0, 0)	0			
1620	H108CFF(D)	1-B-60	YES	7	(-80, 69)	1	1	(-30, -79)	5
1621	H95P10W	0- -1		143	(-80, -40)	141	141	(-70, -69)	142
1622	H95P7W	0- -2		215	(-80, -40)	213			
1623	H95P2W	0- -3		143	(-80, -40)	142			
1624	H95C0W	0- -4	YES	0	(0, 0)	0			
1625	H95S2W	0- -5		142	(-80, -40)	141			
1626	H95S4W	0- -6		131	(-80, -40)	124			
1627	H95S6W	0- -7		187	(-80, -40)	154			
1628	H95S8W	0- -8		207	(-80, -40)	200			
1629	H95S10W	0- -9		31	(-60, 76)	26			
1630	H95S10 SP	0- -10		42	(-40, 40)	28	26	(-30, 49)	31
1631	H95S11W	0- -11		37	(-20, 57)	22	24	(-20, 77)	9
1632	H95S11 SP	0- -12		42	(-20, 57)	32	42	(-70, -11)	23
1633	H95S12W	0- -13		40	(-20, 57)	29	29	(0, 69)	36
1634	H92P9 SP(BB)	0- -14		32	(-40, 80)	13	17	(-70, 69)	28
1635	H95S1W	0- -15		118	(-80, 40)	135			
1636	H95S4W	0- -16		107	(-80, 40)	130			
1637	H95P4W	0- -17		96	(-80, 40)	106			
1638	H95S5W	0- -18		106	(-80, 40)	118			
1639	H95S7W	0- -19		116	(-80, 40)	124			
1640	H95P7W	0- -20		91	(-70, 11)	96	97	(-80, 40)	91
1641	H95S9W	0- -21		90	(-70, 69)	96	97	(-80, 40)	88
1642	H95S11W	0- -22	YES	0	(0, 0)	0			
1643	H95P11W	0- -23		65	(-70, 11)	66			
1644	H95S12W	0- -24		87	(-70, 69)	92			
1645	H95S13W	0- -25		80	(-70, 69)	87			
1646	H95P13W	0- -26	YES	0	(0, 0)	0			
1647	H95S15W	0- -27		46	(-20, 77)	44	48	(-50, 79)	41
1648	H95S16 SP	0- -28		57	(-30, 49)	47			
1649	H95P16 SP	0- -29		78	(-70, -69)	87	68	(-60, -76)	78
1650	H95S17W	0- -30		63	(-30, 69)	66	67	(-40, 40)	63

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT.)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT.)	MEASURED STRAIN
1651	H95517W	0-31		86	(-70, -11)	78		SAME	
1652	H95519W	0-32		122	(-80, -40)	125	130	(-70, -69)	122
1653	H80595(BMSU)	0-33		112	(-70, -11)	105		SAME	
1654	B925MM7(BMSL)	0-34		537	(-80, -40)	499		SAME	
1655	H49COP	0-35	YES	0	( 0, 0)	0		SAME	
1656	H61COP	0-36	YES	0	( 0, 0)	0		SAME	
1657	H73COP	0-37	YES	0	( 0, 0)	0		SAME	
1658	H75COP	0-38		451	(-80, -40)	450		SAME	
1659	H77COP	0-39	YES	0	( 0, 0)	0		SAME	
1660	H79COP	0-40		406	(-80, -40)	399		SAME	
1661	H81COP	0-41		360	(-80, -40)	362		SAME	
1662	H83COP	0-42	YES	0	( 0, 0)	0		SAME	
1663	H85COP	0-43		324	(-80, -40)	325		SAME	
1664	H87COP	0-44		252	(-80, -40)	269		SAME	
1665	H91COP	0-45		200	(-80, -40)	197		SAME	
1666	H93COP	0-46		165	(-80, -40)	179		SAME	
1667	H95COP	0-47		591	(-60, -16)	377	501	(-80, -40)	585
1668	H97COP	0-48	YES	0	( 0, 0)	0		SAME	
1669	H99COP	0-49		31	(-80, -40)	38		SAME	
1670	H101COP	0-50		52	(-70, -1)	45	52	(-80, -40)	50
1671	H103COP	0-51	YES	0	( 0, 0)	0		SAME	
1672	H105COP	0-52		39	(-80, -40)	44		SAME	
1673	H107COP	0-53		19	(-10, -64)	5	17	(-80, -40)	15
1674	H89COP	0-54	YES	0	( 0, 0)	0		SAME	
1675	H865FF(C)	0-55		154	(-30, -79)	151	152	(-40, -80)	146
1676	B80PMRRH	0-56		15	(-10, -74)	2	9	(-70, -1)	1
1677	B80PMRRD	0-57		74	(-70, -69)	79		SAME	
1678	B80PMRRV	0-58	YES	187	(-80, -40)	192		SAME	
1679	B80P15D18(FC)	0-59		288	(-70, -69)	289		SAME	
1680	H96519(D)	0-60	YES	31	(-30, -79)	2	4	(-70, -69)	22
1681	B92P7MMS	0-A-1		224	(-80, -40)	218		SAME	
1682	B92P7MMP	0-A-2		78	(-10, -64)	45	70	(-70, -1)	32
1683	B9258MMS	0-A-3		388	(-70, -69)	297	308	(-80, -40)	376
1684	B9258MMP	0-A-4	YES	0	( 0, 0)	0		SAME	
1685	B86CDMMP	0-A-5		121	(-80, -40)	123		SAME	
1686	B86CDMMS	0-A-6		137	(-80, -40)	140		SAME	
1687	B86P7MMP	0-A-7		86	(-80, -40)	100		SAME	
1688	B86P7MMS	0-A-8		67	(-80, -40)	72		SAME	
1689	B80P1MMS	0-A-9		57	(-70, -1)	37		SAME	
1690	B80P1MMP	0-A-10		24	(-30, -79)	14	17	(-70, -69)	22
1691	F82P11H	0-A-11		96	(-60, -76)	89	93	(-70, -69)	69
1692	H80P17(LF)	0-A-12		120	(-50, -79)	107	113	(-70, -69)	86
1693	B86P20(C)	0-A-13		45	(-30, -79)	28	30	(-60, -76)	15
1694	B86P11MRRH	0-A-14		47	(-30, -79)	19	24	(-70, -69)	37
1695	B86P11MRRD	0-A-15		41	(-30, -79)	35	44	(-70, -69)	37
1696	B86P11MRRV	0-A-16		22	(-30, -79)	17	17	(-40, -80)	20
1697	B86P11MP(HSU)	0-A-17		81	(-50, -79)	38	40	(-70, -69)	37
1698	B86P11MP(HSL)	0-A-18		30	(-30, -49)	17		SAME	
1699	F86P11P(C)	0-A-19		41	(-80, -40)	26		SAME	
1700	B80P11F(P, BB)	0-A-20		76	(-80, -40)	81		SAME	
1701	H80P15D14P(LF)	0-A-21		155	(-70, -69)	150	152	(-70, -64)	145
1702	B86P9W(C)	0-A-22	YES	0	( 0, 0)	0		SAME	
1703	B86P8 SP(BB)	0-A-23		7	(-30, -49)	1	6	(-70, -69)	5
1704	L80P2P(C)	0-A-24		41	(-60, -16)	32	33	(-70, -1)	39
1705	B86S7MMP(C)	0-A-25		31	(-60, -76)	21	21	(-70, -69)	29
1706	H85 9519P(C)	0-A-26	YES	0	( 0, 0)	0		SAME	
1707	B8059 SMFRH	0-A-27		28	( 0, 0)	0	17	(-50, -29)	22
1708	B8059 SMFRD	0-A-28		22	(-30, -49)	16	20	(-70, -1)	15
1709	B8059 SMFRV	0-A-29		30	(-80, -40)	37		SAME	
1710	B925MM7(BMSU)	0-A-30		84	(-70, -69)	81		SAME	
1711	H80595(SL)	0-A-31	YES	0	( 0, 0)	0		SAME	
1712	H85 956 SP(HSU)	0-A-32		100	( 0, -69)	100		SAME	
1713	H85 956 SP(HSL)	0-A-33		309	(-80, -40)	305		SAME	
1714	H86535(SU)	0-A-34	YES	0	( 0, 0)	0		SAME	
1715	H86535(SL)	0-A-35		67	(-80, -40)	69		SAME	
1716	H86 153 SP(HSL)	0-A-36		76	(-10, -64)	76	76	( 0, -69)	72
1717	H86 153 SP(HSD)	0-A-37		204	(-70, -69)	189		SAME	
1718	B86511 9MRRH	0-A-38		18	(-20, -77)	2	18	(-70, -1)	10
1719	B86511 9MRRD	0-A-39		74	(-70, -69)	54	75	(-70, -1)	58
1720	B86511 9MRRV	0-A-40		48	(-80, -40)	53		SAME	
1721	H86 1517 SP(HSU)	0-A-41		581	(-80, -40)	584		SAME	
1722	H86 1517 SP(HSL)	0-A-42		572	(-80, -40)	570		SAME	
1723	H86 156 SP(HSU)	0-A-43		270	(-80, -40)	272		SAME	
1724	H86 156 SP(HSL)	0-A-44		168	(-70, -1)	163		SAME	
1725	H88 5519P(CU)	0-A-45		127	(-50, -29)	124	125	(-60, -16)	121

TABLE B.5 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT., LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT., LAT)	MEASURED STRAIN
1726	H88 5519P[CL]	O-A-46		85	(-10, 64)	88		(-20, 57)	85
1727	M86 156S(U)	O-A-47		182	(-80, -40)	173		SAME	
1728	M86 156S(L)	O-A-48		207	(-70, -1)	208	209	(-80, -40)	205
1729	H86 1P8 SP[HSU]	O-A-49		275	(-80, 40)	283		SAME	
1730	H86 1P8 SP[MSL]	O-A-50		239	(-70, -69)	236		SAME	
1731	B9257HZS(BM)	O-A-51		172	(-70, -69)	178	133	(-80, -40)	142
1732	B9257NZP(BM)	O-A-52		17	(-40, 80)	6	8	(-20, -57)	10
1733	B8653MMP(BM)	O-A-53		57	(-80, -40)	54		SAME	
1734	B8653MMS(BM)	O-A-54		81	(-80, 40)	80		SAME	
1735	B8653M2P(BM)	O-A-55		7	(-30, 79)	3	4	(-60, 76)	
1736	B8653M2S(BM)	O-A-56		56	(-80, -40)	60		SAME	
1737	B8059MMS(BM)	O-A-57		42	(-80, -76)	31	35	(-80, -40)	40
1738	B8059MMP(BM)	O-A-58	YES	215	(-70, 69)	138	141	(-80, 80)	209
1739	B8059MZS(BM)	O-A-59		52	(-80, 40)	54		SAME	
1740	H892M2(D)	O-A-60		37	(-70, 69)	41	47	(-80, 40)	33
1741	H78520P(CU)	O-B-1		173	(-30, 49)	171	174	(-40, 80)	172
1742	H79520P[CL]	O-B-2		172	(-30, 49)	171	173	(-40, 40)	170
1743	B80511MMP(C)	O-B-3		38	(-80, -40)	36		SAME	
1744	M80511P(C)	O-B-4	YES	0	(-0, 0)	0		SAME	
1745	H79 5520P[FC]	O-B-5		159	(-70, -69)	150		SAME	
1746	H79 5520P[AC]	O-B-6		96	(-70, -69)	91		SAME	
1747	H79 5520P[ACL]	O-B-7		83	(-70, -69)	81		SAME	
1748	B64CDMMP(C)	O-B-8		30	(-40, -80)	15	21	(-80, -40)	8
1749	B5658 SMFRV(BB)	O-B-9		54	(-0, 0)	0	5	(-50, -30)	10
1750	B5658 SMFRD(BB)	O-B-10		41	(-0, 0)	0	30	(-70, -1)	39
1751	B5658 SMFRH(BB)	O-B-11		36	(-10, -64)	13	18	(-50, -75)	13
1752	B5658 SMFRV(BB)	O-B-12		74	(-0, -69)	35	37	(-20, -77)	40
1753	B5658 SMFRD(BB)	O-B-13		84	(-30, -79)	60	74	(-70, -69)	56
1754	B5658 SMFRH(BB)	O-B-14		71	(-40, -80)	34	37	(-70, -69)	7
1755	M64P85(SUA)	O-B-15		88	(-0, -69)	45	66	(-60, -16)	48
1756	M64P85(SLA)	O-B-16		66	(-70, -69)	66		SAME	
1757	M64P85(SUF)	O-B-17		50	(-10, -74)	23	33	(-60, -76)	27
1758	M64P85(SLF)	O-B-18	YES	149	(-80, -40)	124		SAME	
1759	B64P11FIP(CU)	O-B-19		28	(-70, -1)	30	32	(-80, 40)	20
1760	B64P11FIP[CL]	O-B-20		90	(-70, -1)	94	105	(-80, 40)	86
1761	H61 2520P[CM]	O-B-21		337	(-60, -16)	321		SAME	
1762	H61 2520P[CL]	O-B-22	YES	0	(-0, 0)	0		SAME	
1763	M60P9 SP(C)	O-B-23		391	(-70, -69)	382		SAME	
1764	H58 8P20P(C)	O-B-24		419	(-70, -69)	424		SAME	
1765	H61 3P20P(C)	O-B-25		401	(-60, -76)	402	405	(-70, -69)	399
1766	H58 8P20P[CU]	O-B-26	YES	0	(-0, 0)	0		SAME	
1767	H58 8P20P[CL]	O-B-27		408	(-70, -69)	410		SAME	
1768	M59 8P6P(C)	O-B-28		34	(-80, -40)	25		SAME	
1769	B8059M2P(BM)	O-B-29		16	(-70, -1)	17	18	(-80, 40)	18
1770	B64P8MMP(BM)	O-B-30		79	(-10, -64)	26	30	(-30, -79)	61
1771	M7455P(C)	O-B-31		256	(-70, -1)	252		SAME	
1772	M7355P(C)	O-B-32		268	(-70, -1)	269		SAME	
1773	M6755P(C)	O-B-33		359	(-80, -40)	360		SAME	
1774	M6755P[UC]	O-B-34		366	(-80, -40)	364		SAME	
1775	M67 2P5P[UC]	O-B-35		389	(-80, -40)	390		SAME	
1776	M6955P(LP)	O-B-36		72	(-70, 69)	71		SAME	
1777	M60P6P(C)	O-B-37		416	(-80, -40)	417		SAME	
1778	H94520P(FC)	O-B-38		33	(-40, -80)	21	21	(-60, -76)	31
1779	H77P10 IP	O-B-39		470	(-70, -69)	474		SAME	
1780	H94520P(AC)	O-B-40		29	(-70, -1)	29		SAME	
1781	H94516 SP(CU)	O-B-41		20	(-10, -74)	4	4	(-0, -69)	6
1782	H94516 SP[CL]	O-B-42		39	(-60, -76)	34	36	(-70, -69)	37
1783	H91P19P(C)	O-B-43		19	(-20, 57)	13	15	(-20, 77)	11
1784	H7958 SP	O-B-44		162	(-40, 40)	153	155	(-50, 29)	162
1785	B86P91JP	O-B-45		59	(-80, -40)	66		SAME	
1786	H91P19P(AC)	O-B-46		53	(-70, 69)	61		SAME	
1787	H91P19P(FC)	O-B-47		37	(-30, -79)	23		SAME	
1788	H97 9P14P(LF)	O-B-48		72	(-20, 57)	14	46	(-70, 69)	34
1789	H101P20P(AC)	O-B-49		78	(-80, -40)	78		SAME	
1790	H80P19P18(FC)	O-B-50		314	(-70, -69)	312		SAME	
1791	H79 9P18P(CU)	O-B-51		201	(-60, -76)	195	197	(-50, -79)	201
1792	H79 9P18P[CL]	O-B-52		215	(-60, -76)	207		SAME	
1793	M63 9P13S(C)	O-B-53		325	(-80, -40)	334		SAME	
1794	H79 9P15P(C)	O-B-54		165	(-30, -79)	160		SAME	
1795	B64P12 9P(LP)	O-B-55		158	(-70, -69)	145		SAME	
1796	B64P12 9P(SC)	O-B-56		53	(-70, -1)	50	64	(-80, 40)	53
1797	H65P22P(C)	O-B-57		63	(-70, -1)	48	74	(-70, 69)	55
1798	B64P 1MMP(C)	O-B-58	YES	96	(-80, -40)	94		SAME	
1799	B64S 1MMP(C)	O-B-59		40	(-10, -74)	21	25	(-80, -79)	21
1800	B108P1MMP(D)	O-B-60	YES	16	(-20, -77)	3	3	(-50, -79)	8

TABLE B.6 - COMPARISON OF ASEM STATISTICAL ANALYSIS RESULTS AND STATIC TEST DATA FROM COMBINED LOADING AT 240 DEGREE LAG

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED C/L	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT. LAT)	MEASURED STRAIN
1	B8CDMMP	9-A-1		58	( 80, -40)	53		SAME	
2	B8P4MMP	9-A-2		75	( 50, 30)	35	40	( 70, -11)	30
3	B8P7MMP	9-A-3		134	( 40, 40)	5	9	(-40, 80)	-43
4	B8CDMFP	9-A-4		0	( 0, 0)	0	72	( 40, 80)	0
5	B8P2MFP	9-A-5		82	(-70, 69)	69		SAME	
6	B8S4MFP	9-A-6		224	( 0, 0)	0	68	( 80, 40)	126
7	B8S7MMP	9-A-7		76	( 50, -79)	18	20	( 70, -69)	14
8	B8S2MFP	9-A-8		49	(-60, -16)	37	37	(-60, -29)	47
9	B8CDHHRN	9-A-9	YES	0	( 0, 0)	0	23	(-80, 40)	0
10	B8CDHHRD	9-A-10		293	(-80, 40)	313		SAME	
11	B8CDHHRV	9-A-11		31	( 80, -40)	37		SAME	
12	B8P11IRV	9-A-12	YES	0	( 0, 0)	0	0	(-80, 40)	0
13	B8P11IRD	9-A-13		194	( 80, -40)	237		SAME	
14	B8P11IRH	9-A-14		33	(-80, 40)	12	14	(-60, -16)	25
15	B8P5FRV	9-A-15		149	(-10, 74)	128	125	( 0, 69)	118
16	B8P5FRD	9-A-16		101	( 60, 16)	107	109	( 70, -11)	69
17	B8P5FRH	9-A-17	YES	126	(-70, -11)	107	108	(-60, -16)	112
18	B8S11IRH	9-A-18	YES	71	(-80, 40)	65		SAME	
19	B8S11IRD	9-A-19	YES	0	( 0, 0)	0		SAME	
20	B8S11IRV	9-A-20		39	(-10, 74)	14	29	( 70, -11)	17
21	B8S5FRH	9-A-21		229	(-80, 76)	136	142	(-70, 69)	115
22	B8S5FRD	9-A-22		419	( 70, -11)	117	208	( 70, -69)	237
23	B8S5FRV	9-A-23		252	( 40, -80)	263		SAME	
24	B8CDMMS	9-A-24		227	(-80, 40)	217		SAME	
25	B8P8MMS	9-A-25	YES	0	( 0, 0)	0		SAME	
26	B8P7MMS	9-A-26		93	(-80, 40)	87		SAME	
27	B8CDMFS	9-A-27		10	( 0, 0)	0	1	(-60, 76)	0
28	B8P2MFS	9-A-28		27	( 50, -79)	15	16	( 60, -76)	21
29	B8S4MMS	9-A-29		176	(-80, 40)	172		SAME	
30	B8S7MMS	9-A-30	YES	0	( 0, 0)	0		SAME	
31	B8S2MFS	9-A-31		76	(-80, 40)	10	10	(-70, 69)	16
32	M9CD05	9-A-32		30	(-80, 40)	21	22	( 70, -11)	24
33	M9P11P	9-A-33		30	( 80, -40)	34		SAME	
34	M9S11P	9-A-34		25	( 70, -11)	28	29	( 80, -40)	26
35	M11CD05	9-A-35	YES	0	( 0, 0)	0		SAME	
36	M11S11P	9-A-36		30	( 0, 69)	12	16	( 50, 30)	12
37	M13CD05	9-A-37		52	(-80, 40)	48		SAME	
38	M13P12P	9-A-38	YES	0	( 0, 0)	0		SAME	
39	M13S12P	9-A-39		42	(-60, 76)	32		SAME	
40	M15CD05	9-A-40		72	(-80, 40)	73		SAME	
41	M15S13P	9-A-41		76	(-70, 69)	68	71	(-80, 40)	70
42	M17CD05	9-A-42		87	(-80, 40)	82		SAME	
43	M17P13P	9-A-43		28	(-60, -16)	28	28	(-50, -29)	26
44	M17S13P	9-A-44		61	(-80, 76)	52	52	( 70, -69)	57
45	M19CD05	9-A-45		114	(-80, 40)	110		SAME	
46	M19S13P	9-A-46		90	(-60, 76)	81	81	(-50, 79)	86
47	M23CD05	9-A-47		114	(-80, 40)	115		SAME	
48	M23S13P	9-A-48		209	(-70, 69)	203		SAME	
49	M25P13P	9-A-49		128	(-50, 29)	125	127	(-60, -16)	128
50	M25S13P	9-A-50		213	(-70, 69)	210		SAME	
51	M27CD05	9-A-51		198	( 0, 69)	4	103	(-80, 40)	113
52	M27S14P	9-A-52		260	(-70, 69)	265		SAME	
53	M29CD05	9-A-53	YES	0	( 0, 0)	0		SAME	
54	M29P14P	9-A-54	YES	0	( 0, 0)	0		SAME	
55	M29S14P	9-A-55		304	(-70, 69)	294		SAME	
56	M31CD05	9-A-56		264	(-80, 40)	257		SAME	
57	M31S14P	9-A-57		392	(-70, 69)	388		SAME	
58	H24 IS20P(C)	9-A-58		242	(-70, 69)	231		SAME	
59	F954P(C)	9-A-59		94	(-60, 76)	79		SAME	
60	H36P18 S(D)	9-A-60		15	(-10, 74)	-1	1	( 70, -69)	-6
61	B16COMMP	9-A-1		123	( 80, -40)	135		SAME	
62	B16COMMS	9-A-2		372	(-70, -11)	190	216	(-80, 40)	244
63	B16P4MMP	9-A-3		120	( 70, -11)	137	141	(-80, -40)	107
64	B16P4MMS	9-A-4	YES	0	( 0, 0)	0	6	( 80, -40)	0
65	B16P8MMP	9-A-5		178	( 70, -11)	141	150	( 80, -40)	98
66	B16P8MMS	9-A-6		42	( 0, 69)	50	57	(-40, 80)	-24
67	B16COMFP	9-A-7		46	( 50, -79)	37	41	( 80, -40)	40
68	B16CDMFS	9-A-8		52	( 70, -11)	72	84	( 80, -40)	50
69	B16P3MFP	9-A-9		138	(-10, 74)	47	62	(-60, 76)	64
70	B16P3MFS	9-A-10		174	( 60, -76)	148	206	( 80, -40)	160
71	B16CDFIP	9-A-11		58	( 40, -80)	39	45	( 80, -40)	47
72	B16CDFIS	9-A-12	YES	0	( 0, 69)	0	0	( 30, 49)	0
73	B16P2FIP	9-A-13		82	( 60, 16)	80	96	( 80, -40)	60
74	B16P2FIS	9-A-14		45	( 0, 0)	0	20	(-80, 40)	18
75	B16S4MMP	9-A-15		90	( 80, -40)	117		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
76	B1654MMS	9-A-16		143	(-80, 40)	115		SAME	
77	B1658MMP	9-A-17	YES	123	(-80, -40)	142		SAME	
78	B1658MMS	9-A-18	YES	64	(-10, -74)	36		SAME	
79	B1653MFP	9-A-19	YES	0	(0, 0)	0	4	(-80, 40)	
80	B1653MFS	9-A-20		141	(-30, 49)	51	20	(-80, 40)	
81	B1652FIP	9-A-21		119	(-70, -69)	120	132	(-80, -40)	
82	B1652FIS	9-A-22		95	(-70, 1)	86	89	(-80, 40)	
83	B16CDHHRH	9-A-23		54	(-20, 77)	20	24	(-20, -57)	
84	B16CDHHRD	9-A-24		56	(-50, 74)	48	62	(-80, 40)	
85	B16CDHHRV	9-A-25	YES	0	(0, 0)	0	7	(-80, -40)	
86	B16P31IRV	9-A-26		98	(-40, -40)	60	92	(-80, -40)	
87	B16P31IRD	9-A-27		107	(-70, -7)	103	122	(-80, -40)	
88	B16P31IRH	9-A-28		204	(-80, 80)	181		SAME	
89	B16P75FFRV	9-A-29		563	(-80, -40)	602		SAME	
90	B16P75FFRD	9-A-30	YES	0	(0, 0)	0	4	(-80, 40)	
91	B16P75FFRH	9-A-31		332	(-80, 40)	330		SAME	
92	B16531IRH	9-A-32		154	(-70, 1)	131	133	(-80, 40)	
93	B16531IRD	9-A-33		188	(-70, -69)	121	157	(-80, -40)	
94	B16531IRV	9-A-34		192	(-70, -69)	157	176	(-80, -40)	
95	B16575FFRH	9-A-35		284	(-80, 40)	0	9	(-80, -69)	
96	B16575FFRD	9-A-36		268	(-80, -40)	340		SAME	
97	B16575FFRV	9-A-37		462	(-80, -40)	575		SAME	
98	F9CDNA	9-A-38		39	(-40, 80)	27	38	(-80, 40)	
99	F13CDNA	9-A-39		26	(-80, 40)	23		SAME	
100	I17CDP	9-A-40		169	(-80, -40)	174		SAME	
101	I213CDP	9-A-41		117	(-70, -69)	126	143	(-80, -40)	
102	F25CDNA	9-A-42		30	(-50, 79)	17	20	(-80, 40)	
103	F29CDNA	9-A-43		37	(-40, 80)	21	33	(-80, 40)	
104	I9CDP	9-A-44	YES	0	(0, 0)	0	3	(-80, 40)	
105	I13CDP	9-A-45		23	(-60, -76)	29	33	(-80, -40)	
106	F17CDNA	9-A-46		20	(-50, 79)	5	9	(-80, 40)	
107	F213CDNA	9-A-47		44	(-10, 74)	7	25	(-80, 40)	
108	H9CDP	9-A-48		75	(0, 0)	0	58	(-80, -40)	
109	H11CDP	9-A-49		86	(-70, -69)	44	52	(-80, -40)	
110	H13CDP	9-A-50	YES	0	(0, 0)	0	5	(-80, 40)	
111	H15CDP	9-A-51		70	(-20, 77)	3	4	(-60, 76)	
112	H17CDP	9-A-52		215	(-60, 30)	8	9	(-70, 1)	
113	H19CDP	9-A-53	YES	0	(0, 0)	0	8	(-80, -40)	
114	H23CDP	9-A-54		153	(-80, -40)	152		SAME	
115	H25CDP	9-A-55		187	(-80, -40)	197		SAME	
116	H27CDP	9-A-56		284	(-80, -40)	298		SAME	
117	H29CDP	9-A-57		351	(-80, -40)	358		SAME	
118	H31CDP	9-A-58		418	(-80, -40)	428		SAME	
119	H47CDP	9-A-59		543	(-80, 40)	558		SAME	
120	H1259 SID	9-A-60		12	(-20, 77)	0	2	(-70, 1)	
121	B24CDMMP	9-B-1		77	(-80, -40)	87		SAME	
122	B24CDMMS	9-B-2		406	(-60, 76)	192	242	(-80, 40)	
123	B24S4MMP	9-B-3		39	(-60, -76)	37	41	(-80, -40)	
124	B24P4MMS	9-B-4	YES	0	(0, 0)	0		SAME	
125	B24S7MMP	9-B-5		20	(-80, -40)	32		SAME	
126	B24P7MMS	9-B-6		70	(-20, 77)	80	103	(-60, 76)	
127	B24CDMFP	9-B-7		29	(-80, -40)	36		SAME	
128	B24CDMFS	9-B-8		24	(0, 0)	0	13	(-70, -69)	
129	B24S4MFP	9-B-9		31	(0, 0)	0	16	(-50, -79)	
130	B24P5MFS	9-B-10		83	(-40, 40)	77	103	(-70, 1)	
131	B24COPFIP	9-B-11		27	(-80, -40)	45		SAME	
132	B24COPFIS	9-B-12	YES	0	(0, 0)	0	0	(-80, -40)	
133	B24S3FIP	9-B-13		55	(-60, -76)	42	45	(-70, 69)	
134	B24P3FIS	9-B-14		44	(0, 0)	0	52	(-70, 69)	
135	B24P4MMP	9-B-15		60	(-70, -1)	56	57	(-80, -40)	
136	B24S4MMS	9-B-16		126	(-70, 1)	119		SAME	
137	B24P7MMP	9-B-17	YES	77	(-80, -40)	76		SAME	
138	B24S7MMS	9-B-18	YES	85	(-20, -67)	38	28	(-30, -49)	
139	B24PSMFP	9-B-19	YES	0	(0, 0)	0		SAME	
140	B24S4MFS	9-B-20		52	(-60, -79)	35	48	(-80, -40)	
141	B24P3FIP	9-B-21		49	(-80, 20)	50	62	(-80, -40)	
142	B24S3FIS	9-B-22		38	(-70, 1)	30		SAME	
143	B24CDHHRH	9-B-23		155	(-80, 40)	78		SAME	
144	B24CDHHRD	9-B-24		84	(-80, 40)	83		SAME	
145	B24CDHHRV	9-B-25	YES	0	(0, 0)	0		SAME	
146	B24P41IRH	9-B-26		308	(-80, 40)	319		SAME	
147	B24P41IRD	9-B-27		102	(-80, 40)	107		SAME	
148	B24P41IRV	9-B-28		71	(-70, -1)	82	89	(-80, -40)	
149	B24P9FFRV	9-B-29		260	(-70, -1)	283		SAME	
150	B24P9FFRD	9-B-30	YES	0	(0, 0)	0		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT. LAY)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT. LAY)	MEASURED STRAIN
151	B2499FFRH	9-B-31		208	(-80, 40)	193		SAME	
152	B245411RH	9-B-32		279	(-70, -1)	246	252	(-80, 40)	
153	B245411RD	9-B-33		75	(-70, -1)	-1	31	(-40, -80)	
154	B245411RV	9-B-34		61	(-60, -76)	59	70	(-80, -40)	
155	B2459FFRH	9-B-35		157	(-80, 40)	124		SAME	
156	B2459FFRD	9-B-36		108	(-60, -76)	98	106	(-70, -69)	
157	B2459FFRV	9-B-37		184	(-80, -40)	221		SAME	
158	125COP	9-B-38		270	(-80, -40)	277		SAME	
159	129COP	9-B-39		232	(-80, -40)	233		SAME	
160	B32CC 1MZP(C)	9-B-40		205	(-80, 40)	197		SAME	
161	M31 9COP(C)	9-B-41		455	(-80, 40)	455		SAME	
162	M22 559 5PIC	9-B-42		233	(-80, 40)	243		SAME	
163	M23P 3P(C)	9-B-43		134	(-80, 40)	135		SAME	
164	M22 5P 3P(C)	9-B-44		147	(-80, 40)	140		SAME	
165	M12 5P 4P(C)	9-B-45		51	(-80, 40)	37		SAME	
166	M12 5P 5P(C)	9-B-46		44	(-80, 40)	37		SAME	
167	M12 5P 4P(C)	9-B-47		60	(-70, -1)	88	45	(-80, 40)	
168	B24P11 6PISC	9-B-48		71	(-80, 40)	85	90	(-70, -1)	
169	H23 958 SP(HSL)	9-B-49		269	(-70, 69)	276		SAME	
170	H23 952 SP(HSL)	9-B-50		317	(-80, -40)	320		SAME	
171	H23 9P6 SP(HSL)	9-B-51		217	(-80, 40)	209		SAME	
172	H23 9P8 SP(HSL)	9-B-52		253	(-80, -40)	251		SAME	
173	M6059PIC	9-B-53	YES	0	(-0, 0)	0		SAME	
174	M48 1P8PIC	9-B-54		252	(-70, -1)	233		SAME	
175	B4855MMS(BM)	9-B-55		50	(-0, 69)	18	42	(-70, -1)	
176	B485 4ZP(BM)	9-B-56		103	(-30, 79)	73	131	(-80, 40)	
177	B4855M2S(BM)	9-B-57		82	(-10, 74)	28	93	(-80, 40)	
178	B4855 1MZP(BM)	9-B-58		56	(-20, 77)	24	49	(-80, 40)	
179	M49 559P(1F)	9-B-59		386	(-70, 69)	109	128	(-40, 80)	
180	M28P17 5ID	9-B-60		7	(-0, 69)	0	0	(-70, -1)	
181	B40C0TTP	8-B-1	YES	0	(-0, 0)	0	1	(-40, 80)	
182	B40C0TTS	8-B-2	YES	0	(-10, 64)	0	1	(-70, -69)	
183	B40P4TTP	8-B-3	YES	0	(-0, 0)	0	0	(-0, -69)	
184	B40P4TTS	8-B-4	YES	1	(-0, 0)	0	0	(-70, -1)	
185	B40P8TTP	8-B-5	YES	0	(-0, 0)	0	0	(-80, -40)	
186	B40P8TTS	8-B-6	YES	0	(-0, 0)	0	0	(-80, -40)	
187	B40C0ZTP	8-B-7	YES	0	(-0, 69)	0	0	(-70, -69)	
188	B40C0ZTS	8-B-8	YES	1	(-0, 0)	0	0	SAME	
189	B40P4ZTP	8-B-9	YES	0	(-0, 0)	0	0	(-80, 40)	
190	B40P4ZTS	8-B-10	YES	2	(-10, 64)	0	0	(-70, 69)	
191	B40P8ZTP	8-B-11	YES	10	(-0, 69)	0	0	(-60, 76)	
192	B40P8ZTS	8-B-12	YES	0	(-0, 0)	0	1	(-70, -1)	
193	B40C0MIF	8-B-13	YES	0	(-0, 0)	0	0	(-80, -40)	
194	B40C0MIS	8-B-14	YES	0	(-0, 0)	0	0	(-70, 69)	
195	B40C0MFP	8-B-15	YES	4	(-0, 69)	1	1	(-60, 76)	
196	B40C0MFS	8-B-16	YES	1	(-0, 0)	0	1	(-80, 40)	
197	B40P7MFP	8-B-17	YES	0	(-0, 0)	0	0	(-80, -40)	
198	B40P7MFS	8-B-18	YES	1	(-0, 0)	0	1	(-80, 40)	
199	B40C0FIP	8-B-19	YES	0	(-0, 0)	0	0	SAME	
200	B40C0FIS	8-B-20	YES	0	(-80, 40)	0	0	(-70, -1)	
201	B40P6FIP	8-B-21	YES	2	(-20, 57)	0	0	(-40, 40)	
202	B40P6FIS	8-B-22	YES	0	(-0, 0)	0	0	(-50, 79)	
203	B40S4TTP	8-B-23	YES	2	(-20, 57)	0	0	(-80, 40)	
204	B40S4TTS	8-B-24	YES	0	(-0, 0)	0	0	SAME	
205	B40S8TTP	8-B-25	YES	0	(-0, 0)	0	0	SAME	
206	B40S8TTS	8-B-26	YES	0	(-0, 0)	0	0	(-80, 40)	
207	B40S4ZTP	8-B-27	YES	0	(-0, 0)	0	0	SAME	
208	B40S4ZTS	8-B-28	YES	2	(-30, 49)	0	0	(-40, 40)	
209	B40S8ZTP	8-B-29	YES	0	(-0, 0)	0	0	(-70, -69)	
210	B40S8ZTS	8-B-30	YES	2	(-20, 57)	0	0	(-80, -40)	
211	B40S4MFP	8-B-31	YES	2	(-70, -1)	0	0	(-80, -40)	
212	B40S4MFS	8-B-32	YES	0	(-0, 0)	0	0	SAME	
213	B40S6FIP	8-B-33	YES	0	(-0, 0)	0	0	(-50, 79)	
214	B40S6FIS	8-B-34	YES	1	(-0, 0)	0	1	(-80, -40)	
215	B40C0HHRH	8-B-35	YES	2	(-50, -79)	0	0	(-80, 40)	
216	B40C0HHRD	8-B-36	YES	1	(-20, 57)	0	0	(-80, -40)	
217	B40C0HHRV	8-B-37	YES	0	(-0, 0)	0	1	(-70, -69)	
218	B40P611RH	8-B-38	YES	0	(-0, 0)	0	0	(-70, -1)	
219	B40P611RD	8-B-39	YES	2	(-20, 57)	0	0	(-20, 77)	
220	B40P611RV	8-B-40	YES	1	(-50, 30)	0	1	(-80, 40)	
221	B40P9F1RV	8-B-41	YES	0	(-0, 0)	0	0	(-30, 49)	
222	B40P9F1RD	8-B-42	YES	0	(-0, 0)	0	0	(-80, 40)	
223	B40P9F1RH	8-B-43	YES	2	(-0, 0)	0	0	(-80, -40)	
224	B40P12FFRV	8-B-44	YES	0	(-0, 0)	0	0	(-70, -1)	
225	B40P12FFRD	8-B-45	YES	1	(-0, 0)	0	1	(-80, -40)	



TABLE B.6 (Continued)

CAGE NUMBER	CAGE NAME	CAGE POSITION	ASSUMED CAL.	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT. LAT.)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT. LAT.)	MEASURED STRAIN
226	B40P12FFRH	B-A-46	YES	2	(-10, -64)	0	0	(-80, 40)	0
227	B40S61IRV	B-A-47	YES	0	(0, 0)	0	0	(-80, 40)	0
228	B40S61IRD	B-A-48	YES	0	(0, 0)	0	0	(-30, -49)	0
229	B40S61IRH	B-A-49	YES	0	(0, 0)	0	0	(-80, 40)	0
230	B4DS9F1RH	B-A-50	YES	0	(0, 0)	0	0	(-80, 40)	0
231	B4DS9F1RD	B-A-51	YES	0	(0, 0)	0	1	(-70, 69)	0
232	B4DS9F1RV	B-A-52	YES	0	(0, 0)	0	0	SAME	0
233	B40S12FFRH	B-A-53	YES	1	(0, 69)	0	0	(-80, -40)	0
234	B40S12FFRC	B-A-54	YES	0	(0, 0)	0	0	(-80, -76)	0
235	B40S12FFRV	B-A-55	YES	0	(0, 0)	0	0	SAME	0
236	B48COMPP	B-A-56	YES	2	(-20, -40)	0	1	(-70, -11)	2
237	B48S84MFRV	B-A-57	YES	2	(-40, 40)	0	0	(-80, 40)	0
238	B48S84MFRD	B-A-58	YES	2	(-20, 57)	0	0	(-70, 69)	0
239	B48S84MFRH	B-A-59	YES	0	(0, 0)	0	0	(-70, -69)	0
240	W46P22TIC1	B-A-60	YES	0	(0, 0)	0	0	(-80, 40)	0
241	B48C07TP	B-A-1	YES	1	(0, 0)	0	0	(-0, 69)	-1
242	B48C07TS	B-A-2	YES	1	(0, 0)	0	1	(-80, -40)	1
243	B48P47TP	B-A-3	YES	0	(0, 0)	0	0	(-80, -40)	0
244	B48P47TS	B-A-4	YES	1	(0, 0)	0	0	(-80, 40)	-1
245	B48P47TP	B-A-5	YES	0	(0, 0)	0	0	(-50, 76)	0
246	B48P47TS	B-A-6	YES	0	(0, 0)	0	1	(-80, 40)	0
247	B48C02TP	B-A-7	YES	2	(-80, -80)	0	0	(-80, 40)	0
248	B48C02TS	B-A-8	YES	0	(0, 0)	0	0	(-80, 40)	0
249	B48P42TP	B-A-9	YES	0	(0, 0)	0	0	(-80, 40)	0
250	B48P42TS	B-A-10	YES	0	(0, 0)	0	1	(-70, 69)	0
251	B48P82TP	B-A-11	YES	0	(0, 0)	0	0	(-80, -16)	0
252	B48P82TS	B-A-12	YES	1	(0, 0)	0	0	(-80, 40)	-1
253	B48COMZP	B-A-13	YES	0	(0, 0)	0	0	(-60, 16)	0
254	B48COMZS	B-A-14	YES	0	(0, 0)	0	0	(-60, 76)	0
255	B48COMZP	B-A-15	YES	0	(0, 0)	0	0	(-80, 40)	0
256	B48COMZS	B-A-16	YES	1	(0, 0)	0	0	(-80, 40)	1
257	B48P6MFP	B-A-17	YES	0	(0, 0)	0	0	(-80, -40)	0
258	B48P6MFS	B-A-18	YES	0	(0, 0)	0	0	(-80, 40)	0
259	B48C0F1P	B-A-19	YES	0	(0, 0)	0	0	SAME	0
260	B48C0F1S	B-A-20	YES	2	(-10, 64)	0	0	(-20, 57)	0
261	B48P6F1P	B-A-21	YES	2	(-70, -11)	0	0	(-80, -40)	0
262	B48P6F1S	B-A-22	YES	0	(0, 0)	0	0	(-50, 29)	0
263	B48S47TP	B-A-23	YES	2	(-70, 0)	0	0	SAME	0
264	B48S47TS	B-A-24	YES	0	(0, 0)	0	0	SAME	0
265	B48S87TP	B-A-25	YES	0	(0, 0)	0	0	SAME	0
266	B48S87TS	B-A-26	YES	0	(0, 0)	0	0	(-80, 40)	0
267	B48S42TP	B-A-27	YES	0	(0, 0)	0	0	SAME	0
268	B48S42TS	B-A-28	YES	0	(0, 0)	0	0	(-40, 40)	-2
269	B48S82TP	B-A-29	YES	1	(-10, 64)	0	0	(0, 0)	-1
270	B48S82TS	B-A-30	YES	2	(-70, -11)	0	0	(-80, 40)	0
271	B48S6MFP	B-A-31	YES	0	(0, 0)	0	0	(-40, -40)	0
272	B48S6MFS	B-A-32	YES	0	(0, 0)	0	0	SAME	0
273	B48S6F1P	B-A-33	YES	0	(0, 0)	0	1	(-80, 40)	0
274	B48S6F1S	B-A-34	YES	1	(-30, 69)	0	0	(-50, 30)	-1
275	B48CDMHRH	B-A-35	YES	1	(0, 69)	0	1	(-70, 11)	1
276	B48CDMHRD	B-A-36	YES	2	(-30, 49)	0	0	(-10, -74)	0
277	B48CDMHRV	B-A-37	YES	0	(0, 0)	0	0	(-20, 57)	0
278	B48P71IRV	B-A-38	YES	0	(0, 0)	0	0	(-70, 69)	0
279	B48P71IRD	B-A-39	YES	2	(-10, 74)	0	0	(-60, 16)	0
280	B48P71IRH	B-A-40	YES	0	(0, 0)	0	0	(-50, 79)	0
281	B48P10F1RV	B-A-41	YES	0	(0, 0)	0	0	(-40, 40)	0
282	B48P10F1RD	B-A-42	YES	0	(0, 0)	0	0	(-80, -40)	0
283	B48P10F1RH	B-A-43	YES	0	(0, 0)	0	0	(-80, -40)	0
284	B48P12FFRV	B-A-44	YES	0	(0, 0)	0	0	(-70, -69)	0
285	B48P12FFRD	B-A-45	YES	1	(-10, 64)	0	0	(-80, 40)	1
286	B48P12FFRH	B-A-46	YES	2	(-20, -57)	0	0	(-80, 40)	0
287	B48S71IRH	B-A-47	YES	0	(0, 0)	0	0	(-80, 40)	0
288	B48S71IRD	B-A-48	YES	0	(0, 0)	0	0	(-10, 74)	0
289	B48S71IRV	B-A-49	YES	0	(0, 0)	0	0	(-80, -40)	0
290	B48S10F1RH	B-A-50	YES	1	(0, 69)	0	1	(-80, 40)	-1
291	B48S10F1RD	B-A-51	YES	0	(0, 0)	0	0	(-80, 40)	0
292	B48S10F1RV	B-A-52	YES	0	(0, 0)	0	0	SAME	0
293	B48S121IRH	B-A-53	YES	0	(0, 0)	0	1	(-60, -76)	0
294	B48S121IRD	B-A-54	YES	1	(0, 0)	0	0	(-80, -40)	1
295	B48S121IRV	B-A-55	YES	0	(0, 0)	0	0	SAME	0
296	H481S20PIC1	B-A-56	YES	3	(-80, -80)	-1	3	(-80, -40)	3
297	B48S13MMS1C1	B-A-57	YES	0	(0, 0)	0	0	(-80, 40)	0
298	B56S91PIC1	B-A-58	YES	2	(0, 0)	0	0	(-80, 40)	0
299	B56P4MMS1C1	B-A-59	YES	5	(0, 0)	0	0	(-60, 16)	3
300	B40P17DF	B-A-60	YES	0	(0, 0)	0	0	(-80, -40)	0

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL.	D MAXIMUM MEASURED STRAIN			D MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	D MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	D MOMENT (VERT. LAT)	MEASURED STRAIN
301	M30 4P10W	8-B-1	YES	1	(10, 64)	0	1	(-80, 40)	1
302	M30 4P10 SP	8-B-2	YES	2	(20, 57)	0	0	(-80, 40)	0
303	M30 4P11W	8-B-3	YES	0	(0, 0)	0	1	(-70, 69)	0
304	M30 4P11 SP	8-B-4	YES	0	(0, 0)	0	0	(-50, 79)	0
305	M30 4P12W	8-B-5	YES	0	(0, 0)	0	0	(-40, 80)	0
306	M30 4P13W	8-B-6	YES	2	(30, 79)	0	0	(-60, 79)	0
307	M31 2P10W	8-B-7	YES	2	(20, 57)	0	0	(-80, 40)	0
308	M31 2P10 SPRL	8-B-8	YES	0	(10, 64)	0	0	(-80, 40)	0
309	M31 2P10 SPRC	8-B-9	YES	0	(0, 0)	0	0	(-20, 57)	0
310	M31 2P10 SPRH	8-B-10	YES	2	(30, 49)	0	0	(-50, 30)	0
311	M31 2P11W	8-B-11	YES	0	(0, 0)	0	0	(-50, 30)	0
312	M31 2P11 SP	8-B-12	YES	0	(0, 0)	0	0	(-60, 76)	0
313	M31 2P12W	8-B-13	YES	0	(0, 0)	0	0	(-80, 76)	0
314	M31 2P13W	8-B-14	YES	0	(0, 0)	0	0	(-80, 40)	0
315	M31 2P14W	8-B-15	YES	0	(0, 0)	0	0	(-80, 60)	0
316	B40P8MMRH1BB	8-B-16	YES	4	(30, 49)	0	0	(-80, 76)	0
317	B32P10MMP	8-B-17	YES	0	(0, 0)	0	0	(-80, 40)	0
318	B40P8MMRD1BB	8-B-18	YES	0	(0, 0)	0	1	(-80, 40)	0
319	B32P10 SMMP	8-B-19	YES	0	(0, 0)	0	0	SAME	0
320	B40P8MMRY1BB	8-B-20	YES	2	(-70, 72)	0	0	SAME	0
321	M31 8P11 2PRH	8-B-21	YES	0	(0, 0)	0	0	(-80, 40)	0
322	M31 8P11 2PRD	8-B-22	YES	2	(20, 57)	0	0	(-50, 79)	0
323	M31 8P11 2PRL	8-B-23	YES	1	(-50, 79)	0	0	(-70, 69)	0
324	M31 8P11 SP	8-B-24	YES	0	(0, 0)	0	0	SAME	0
325	M31 8P12W	8-B-25	YES	0	(0, 0)	0	0	SAME	0
326	M31 8P13W	8-B-26	YES	0	(-50, 79)	0	0	(-60, 76)	0
327	M31 8P14W	8-B-27	YES	0	(0, 0)	0	0	SAME	0
328	M32 4P10W	8-B-28	YES	0	(0, 0)	0	0	(-70, 69)	0
329	M32 4P10 SP	8-B-29	YES	0	(0, 0)	0	0	(-80, 40)	0
330	M32 4P10 7P	8-B-30	YES	1	(0, 0)	0	0	(-80, 40)	0
331	M32 4P11 1P	8-B-31	YES	1	(0, 0)	0	0	(-50, 30)	0
332	M32 4P11 3P	8-B-32	YES	0	(0, 0)	0	0	SAME	0
333	M32 4P11 5PRH	8-B-33	YES	2	(20, 57)	0	0	(-40, 80)	0
334	M32 4P11 5PRD	8-B-34	YES	2	(20, 57)	0	0	(-80, 40)	0
335	M32 4P11 5PRL	8-B-35	YES	1	(0, 0)	0	0	(-30, 64)	0
336	M32 4P12W	8-B-36	YES	1	(10, 64)	0	0	(-80, 40)	0
337	M32 4P13W	8-B-37	YES	0	(0, 0)	0	0	(-40, 80)	0
338	M32 4P14W	8-B-38	YES	0	(0, 0)	0	0	(-40, 80)	0
339	M31 2S11W	8-B-39	YES	0	(0, 0)	0	0	(-50, 30)	0
340	M31 2S12W	8-B-40	YES	2	(20, 57)	0	0	(-40, 80)	0
341	M31 2S13W	8-B-41	YES	0	(0, 0)	0	1	(-70, 69)	0
342	M31 2S14W	8-B-42	YES	0	(0, 0)	0	0	(-80, 40)	0
343	M31 8S11W	8-B-43	YES	0	(0, 0)	0	0	(-80, 40)	0
344	M31 8S11 2PRL	8-B-44	YES	0	(0, 0)	0	0	(-70, 69)	0
345	M31 8S11 2PRD	8-B-45	YES	0	(0, 0)	0	0	(-80, 40)	0
346	M31 8S11 2PRH	8-B-46	YES	2	(10, 64)	0	0	(-80, 40)	0
347	M31 8S12W	8-B-47	YES	0	(0, 0)	0	0	(-80, 40)	0
348	M31 8S13W	8-B-48	YES	0	(0, 0)	0	0	(-50, 30)	0
349	M31 8S14W	8-B-49	YES	2	(0, 69)	0	0	(-80, 40)	0
350	M32 6S10W	8-B-50	YES	0	(0, 0)	0	0	(-70, 69)	0
351	M32 6S10 7P	8-B-51	YES	0	(0, 0)	0	0	(-80, 40)	0
352	M32 6S11 3P	8-B-52	YES	0	(0, 0)	0	0	SAME	0
353	M32 6S12W	8-B-53	YES	1	(0, 0)	0	1	(-80, 40)	0
354	M32 6S13W	8-B-54	YES	1	(0, 0)	0	1	(-70, 69)	0
355	M32 6S14W	8-B-55	YES	0	(0, 0)	0	0	SAME	0
356	H24 1S17 SP(HSL)	8-B-56	YES	4	(10, 74)	1	1	(-30, 79)	0
357	H24 1S17 SP(HSU)	8-B-57	YES	4	(-70, 69)	0	1	(-50, 29)	2
358	H24 2S20 SP(HSL)	8-B-58	YES	5	(0, 69)	0	0	(-70, 69)	3
359	H24 2S20 SP(HSU)	8-B-59	YES	3	(0, 69)	0	0	(-10, 64)	0
360	WS2P22T(D)	8-B-60	YES	2	(0, 0)	0	0	(-50, 79)	0
361	M21P13 SP	7-1-1		409	(-80, 40)	12	25	(-40, 80)	235
362	M21P12W	7-1-2		27	(30, 79)	1	8	(-80, 40)	6
363	M21P6W	7-1-3		150	(-70, 69)	143	144	(-80, 40)	140
364	M21P2W	7-1-4		151	(-80, 40)	147		SAME	
365	M21C0W	7-1-5	YES	0	(0, 0)	0		SAME	
366	M21S2W	7-1-6		287	(-70, 69)	153	165	(-80, 40)	149
367	M21S4W	7-1-7		209	(-80, 40)	206		SAME	
368	M21S6W	7-1-8		185	(-70, 69)	185		SAME	
369	M21S8W	7-1-9		186	(-70, 69)	188		SAME	
370	M21S10W	7-1-10		172	(-70, 69)	170		SAME	
371	M21S11 SP	7-1-11		164	(-70, 69)	151		SAME	
372	M21S12W	7-1-12		122	(-70, 69)	124		SAME	
373	M21S12 SP	7-1-13		110	(-70, 69)	102		SAME	
374	M21S13W	7-1-14		162	(-70, 69)	135		SAME	
375	M21S13 SP	7-1-15		112	(-70, 69)	101	104	(-80, 76)	112

TABLE B.6 (Continued)

CASE NUMBER	CASE NAME	CASE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
376	H16 2S1SP(CU)	7- -16		148	(-70, 69)	129		SAME	
377	H21COW	7- -17		136	(-70, -69)	114	133	(-80, -40)	126
378	H21S2W	7- -18		123	(-80, -40)	125		SAME	
379	H21P2W	7- -19		139	(-80, -40)	144		SAME	
380	H21S5W	7- -20		101	(-80, -40)	106		SAME	
381	H21S7W	7- -21		85	(-70, -11)	72		SAME	
382	H21P7W	7- -22		87	(-70, -69)	76		SAME	
383	H21S9W	7- -23		48	(-60, 16)	48	49	(-50, 30)	46
384	H21S11W	7- -24		151	(-70, 69)	150		SAME	
385	H21P11W	7- -25		89	(-70, -69)	90		SAME	
386	H21S13W	7- -26		62	(-30, 49)	50	50	(-40, 40)	54
387	H21S13 SP	7- -27		64	(-40, 80)	62	62	(-30, 79)	60
388	H21P13 SP	7- -28		63	(-40, -80)	60	61	(-30, -79)	63
389	H21S14W	7- -29		724	(-0, 69)	46	47	(-10, 74)	711
390	H21S16W	7- -30		113	(-70, 69)	109		SAME	
391	H21P16W	7- -31		78	(-50, -29)	80	81	(-60, -16)	76
392	H21S18W	7- -32		80	(-20, 57)	45	50	(-50, 30)	69
393	H21P18W	7- -33		114	(-70, -11)	109		SAME	
394	T33COW	7- -34		33	(-80, 40)	29		SAME	
395	T35COW	7- -35		42	(-20, -57)	-8	25	(-80, -40)	4
396	T37COW	7- -36		238	(-50, 79)	-27	31	(-70, -69)	-16
397	T39COW	7- -37		180	(-70, -11)	15		SAME	
398	T41COW	7- -38		128	(-0, 0)	0	36	(-70, 69)	45
399	T43COW	7- -39		14	(-80, -16)	9	11	(-80, 40)	14
400	T45COW	7- -40		7	(-60, 76)	5	7	(-80, 40)	3
401	T47COW	7- -41		10	(-60, 76)	8	10	(-80, 40)	2
402	T33COW	7- -42		24	(-70, -11)	23	26	(-80, 40)	24
403	T35COW	7- -43		39	(-80, 40)	41		SAME	
404	T37COW	7- -44		93	(-80, 40)	94		SAME	
405	T39COW	7- -45		145	(-80, 40)	142		SAME	
406	T41COW	7- -46		0	(-0, 0)	0	179	(-80, 40)	0
407	T43COW	7- -47		221	(-80, 40)	223		SAME	
408	T45COW	7- -48		273	(-80, 40)	279		SAME	
409	T47COW	7- -49		312	(-70, 69)	321	359	(-80, 40)	299
410	H33COW	7- -50		237	(-80, 40)	234		SAME	
411	H35COW	7- -51		309	(-80, 40)	325		SAME	
412	M37COW	7- -52	YES	0	(-0, 0)	0		SAME	
413	M39COW	7- -53	YES	0	(-0, 0)	0		SAME	
414	M41COW	7- -54	YES	0	(-0, 0)	0		SAME	
415	M43COW	7- -55	YES	0	(-0, 0)	0		SAME	
416	M45COW	7- -56	YES	0	(-0, 0)	0		SAME	
417	M47COW	7- -57	YES	0	(-0, 0)	0		SAME	
418	B40S8MMW(C)	7- -58	YES	0	(-0, 0)	0		SAME	
419	B40S12MMP(C)	7- -59	YES	0	(-0, 0)	0		SAME	
420	B16P12(DB)	7- -60	YES	0	(-0, 0)	0		SAME	
421	I31 3COP	7-A- 1		203	(-80, -40)	195		SAME	
422	I37COP	7-A- 2		307	(-80, -40)	294		SAME	
423	I41COP	7-A- 3		308	(-80, -40)	327		SAME	
424	I45 3COP	7-A- 4		289	(-80, -40)	300		SAME	
425	F33 3COW	7-A- 5		25	(-80, 40)	22		SAME	
426	F37COW	7-A- 6		26	(-70, 69)	12	14	(-80, 40)	13
427	F41COW	7-A- 7		34	(-0, 0)	0	11	(-80, 40)	28
428	F45 3COW	7-A- 8		23	(-80, 40)	7		SAME	
429	H33COP	7-A- 9		478	(-80, -40)	479		SAME	
430	H35COP	7-A-10	YES	0	(-0, 0)	0		SAME	
431	H37COP	7-A-11		430	(-80, -40)	439		SAME	
432	H39COP	7-A-12		468	(-80, -40)	461		SAME	
433	H41COP	7-A-13		510	(-80, -40)	512		SAME	
434	H43COP	7-A-14	YES	0	(-0, 0)	0		SAME	
435	H45COP	7-A-15	YES	0	(-0, 0)	0		SAME	
436	H21COP	7-A-16	YES	0	(-0, 0)	0		SAME	
437	M33P11 IP	7-A-17		315	(-70, 69)	321		SAME	
438	M33P11 IP	7-A-18		191	(-70, -11)	186		SAME	
439	M35P11 IP	7-A-19		349	(-70, 69)	363		SAME	
440	M37P11 IP	7-A-20		364	(-70, 69)	367		SAME	
441	M37P11 IP	7-A-21		298	(-70, -11)	276		SAME	
442	M39P11 IP	7-A-22		1238	(-40, 40)	-12	43	(-70, 69)	26
443	M41P11 IP	7-A-23		353	(-70, 69)	357		SAME	
444	M41P11 IP	7-A-24		311	(-70, -11)	313		SAME	
445	M43P11 IP	7-A-25		392	(-70, 69)	388		SAME	
446	M45P11 IP	7-A-26		409	(-70, 69)	410		SAME	
447	M45P11 IP	7-A-27		333	(-70, -11)	332		SAME	
448	M47P11 IP	7-A-28		283	(-70, 69)	282		SAME	
449	M33P14P	7-A-29		1461	(-10, -74)	-203	420	(-70, 69)	427
450	M33P14P	7-A-30	YES	0	(-0, 0)	0		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT, LAT)	MEASURED STRAIN
451	M35514P	7-A-31		431	(-70, 69)	427		SAME	
452	M37514P	7-A-32		392	(-70, 69)	404		SAME	
453	M37P14P	7-A-33		269	(-50, -29)	72	199	(-40, -80) 39	
454	M39514P	7-A-34		1568	(-40, -80)	-263	332	(-70, 69) 239	
455	M41514P	7-A-35		1105	(-0, 0)	0	286	(-70, 69) 61	
456	M41P14P	7-A-36		281	(-70, 1)	190	197	(-60, -16) 142	
457	M43514P	7-A-37		470	(-40, 80)	323	401	(-70, 69) 374	
458	M45514P	7-A-38		417	(-70, 69)	457		SAME	
459	M45P14P	7-A-39	YES	0	(-0, 0)	0		SAME	
460	M47514P	7-A-40		467	(-70, 69)	473		SAME	
461	W32 15M20 1RV	7-A-41		213	(-70, -69)	221	231	(-80, -40) 207	
462	W32 15M20 1RD	7-A-42		608	(-80, 40)	597		SAME	
463	W32 15M20 1RL	7-A-43		428	(-80, 40)	421		SAME	
464	W32 15Z10 1P	7-A-44		82	(-0, 0)	0	28	(-30, -79) -14	
465	W355M20 5P	7-A-45		414	(-70, 69)	411		SAME	
466	W355M22W	7-A-46		293	(-80, 40)	275		SAME	
467	W3552M3 9P	7-A-47		312	(-80, 40)	310		SAME	
468	W3552T0 1P	7-A-48		255	(-80, 40)	260		SAME	
469	W3552T2W	7-A-49		101	(-80, 40)	95		SAME	
470	W3552Z3 9P	7-A-50		109	(-80, 40)	102		SAME	
471	M49 559P (FO)	7-A-51		341	(-70, 69)	368		SAME	
472	M49 559P (AO)	7-A-52		372	(-70, 69)	376		SAME	
473	B4852MMH (C)	7-A-53		89	(-80, 40)	108		SAME	
474	R56510 1MMP (C)	7-A-54		65	(-80, 40)	70	72	(-70, 69) 49	
475	B4053MMS (BM)	7-A-55		25	(-10, -64)	14	22	(-70, 1) -6	
476	B4053MMP (BM)	7-A-56		122	(-80, 40)	122		SAME	
477	B4053M2S	7-A-57		81	(-80, 40)	81		SAME	
478	B4053M2P	7-A-58		70	(-80, 40)	71		SAME	
479	B4855MMP	7-A-59		76	(-80, 40)	91		SAME	
480	H44519 (D)	7-A-60		65	(-80, 40)	67		SAME	
481	T49P10W	7-B-1		231	(-70, 1)	230	231	(-80, 40) 221	
482	T49P6W	7-B-2		66	(-70, 1)	68	69	(-80, 40) 60	
483	T49C0W	7-B-3		20	(-60, 76)	20	24	(-80, 40) 18	
484	T49S2W	7-B-4		33	(-80, 40)	24	25	(-70, 69) 31	
485	T49S4W	7-B-5		30	(-60, 76)	23	23	(-70, 69) 22	
486	T49S6W	7-B-6		0	(-0, 0)	0	53	(-80, 40) 0	
487	T49S8W	7-B-7		197	(-70, 69)	166	168	(-80, 40) 161	
488	T49S10W	7-B-8		284	(-80, 40)	278		SAME	
489	T49S10 5P	7-B-9		369	(-80, 40)	374		SAME	
490	T49S10 9P	7-B-10		436	(-80, 40)	437		SAME	
491	T49P10W	7-B-11		388	(-70, 1)	384		SAME	
492	T49P6W	7-B-12		258	(-70, 1)	262		SAME	
493	T49C0W	7-B-13	YES	0	(-0, 0)	0		SAME	
494	T49S2W	7-B-14		348	(-80, 40)	339		SAME	
495	T49S4W	7-B-15		401	(-80, 40)	404		SAME	
496	T49S6W	7-B-16		464	(-80, 40)	470		SAME	
497	T49S8W	7-B-17		281	(-80, 40)	278		SAME	
498	T49S10W	7-B-18		443	(-70, 69)	442		SAME	
499	T49S10 5P	7-B-19		465	(-70, 69)	464		SAME	
500	T49S10 9P	7-B-20		465	(-80, 40)	468	471	(-70, 69) 465	
501	W495M22W	7-B-21		199	(-70, 69)	204		SAME	
502	W4952M3 9P	7-B-22		516	(-70, 69)	494	495	(-80, 40) 502	
503	W495M20 1RL	7-B-23		413	(-70, 69)	417		SAME	
504	W495M20 1RD	7-B-24		377	(-80, 40)	384		SAME	
505	W495M20 1RV	7-B-25		300	(-70, -69)	275	278	(-80, -40) 288	
506	W4952T2W	7-B-26		420	(-80, 40)	428		SAME	
507	W4952Z3 9P	7-B-27		406	(-80, 40)	407		SAME	
508	W4952T0 1RL	7-B-28		454	(-70, 69)	455		SAME	
509	W4952T0 1RD	7-B-29		24	(-80, -40)	7	18	(-30, -49) 1	
510	W4952T0 1RV	7-B-30		151	(-80, -40)	141		SAME	
511	M49P14W	7-B-31	YES	0	(-0, 0)	0		SAME	
512	M49P13W	7-B-32		27	(-70, 1)	9		SAME	
513	M49P11 1P	7-B-33		286	(-70, 1)	273		SAME	
514	M49P10W	7-B-34		241	(-60, -16)	245	247	(-70, 1) 241	
515	M49P6W	7-B-35		265	(-70, 1)	268		SAME	
516	M49P2W	7-B-36		327	(-80, 40)	334		SAME	
517	M49C0W	7-B-37		261	(-80, 40)	277		SAME	
518	M49S2W	7-B-38		394	(-80, 40)	407		SAME	
519	M49S4W	7-B-39		399	(-80, 40)	416		SAME	
520	M49S6W	7-B-40		347	(-80, 40)	349		SAME	
521	M49S8W	7-B-41		369	(-70, 69)	363		SAME	
522	M49S9 5P	7-B-42		392	(-70, 69)	385		SAME	
523	M49S10W	7-B-43		387	(-70, 69)	389		SAME	
524	M49S10 5P	7-B-44		416	(-70, 69)	411		SAME	
525	M49S10 9P	7-B-45		416	(-70, 69)	416		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
526	M49S12W	7-B-46		430	(-70, 69)	433		SAME	
527	M49S12 SP	7-B-47		419	(-70, 69)	419		SAME	
528	M49S13W	7-B-48		486	(-70, 69)	486		SAME	
529	M49S13 SP	7-B-49		0	(0, 0)	0		SAME	
530	M49S14W	7-B-50		472	(-70, 69)	473		SAME	
531	M49S11 1P	7-B-51		410	(-70, 69)	421		SAME	
532	B48COMMS(C)	7-B-52		144	(-60, -16)	100	133	(-60, 40)	124
533	Z38S3 SP(C)	7-B-53		193	(-80, 40)	196		SAME	
534	Z33S3 SP(C)	7-B-54		126	(-80, 40)	132		SAME	
535	Z33S3 SP(C)	7-B-55		131	(-80, 40)	130		SAME	
536	Z43P3 SP(C)	7-B-56		241	(-80, 40)	240		SAME	
537	Z43P3 SP(C)	7-B-57		221	(-80, 40)	219		SAME	
538	Z53P3 SP(C)	7-B-58		303	(-80, 40)	297		SAME	
539	Z53P3 SP(C)	7-B-59		355	(-80, 40)	329		SAME	
540	H52S18(D)	7-B-60		128	(-80, 40)	127		SAME	
541	H16.2S1SP(C)	6--1	YES	0	(0, 0)	0		SAME	
542	H49P3W	6--2		508	(-80, -40)	518		SAME	
543	H49P7W	6--3		442	(-80, -40)	458		SAME	
544	H49P10W	6--4		389	(-70, -69)	399		SAME	
545	H49P12W	6--5		329	(-70, -69)	363		SAME	
546	H49P15 SP	6--6		205	(-40, -80)	212		SAME	
547	H49P18W	6--7	YES	1	(0, 0)	0	1	(-80, 40)	1
548	H49S1W	6--8		533	(-80, -40)	542		SAME	
549	H49S3W	6--9		451	(-80, -40)	458		SAME	
550	H49S5W	6--10		390	(-80, -40)	397		SAME	
551	H49S7W	6--11		370	(-70, -11)	371		SAME	
552	H49S9W	6--12		311	(-70, -11)	310		SAME	
553	H49S10W	6--13		249	(-70, -11)	261		SAME	
554	H49S11W	6--14		220	(-60, -16)	230		SAME	
555	H49S12W	6--15		200	(-50, -30)	211		SAME	
556	H49S13W	6--16		181	(0, 69)	171	181	(-30, 49)	167
557	H49S15 SP	6--17		223	(-40, 80)	218		SAME	
558	H49S16W	6--18		499	(-60, 76)	240		SAME	
559	H49S18W	6--19	YES	0	(0, 0)	0		SAME	
560	H49S19W	6--20		462	(-70, 69)	465		SAME	
561	H45S11 SP	6--21		192	(-60, -16)	201	205	(-50, -30)	190
562	H45S16 SP	6--22		210	(-50, 79)	205		SAME	
563	T46S10 9P	6--23		328	(-80, 40)	317		SAME	
564	T46S7W	6--24		134	(-80, 40)	130		SAME	
565	T39S10 9P	6--25		270	(-80, 40)	266		SAME	
566	T39S7W	6--26	YES	0	(0, 0)	0		SAME	
567	T36S10 9P	6--27		170	(-80, 40)	166		SAME	
568	T36S7W	6--28		63	(-70, 69)	57		SAME	
569	M46S8W	6--29		359	(-70, 69)	351		SAME	
570	M43S4W	6--30		354	(-70, 69)	351		SAME	
571	M43S8W	6--31		298	(-80, 40)	295		SAME	
572	M39S7A	6--32		327	(-80, 40)	39	78	(-40, -30)	226
573	M39S8W	6--33		322	(-80, 40)	312	312	(-70, 69)	322
574	M30S11W	6--34		325	(-60, 76)	239	251	(-70, 69)	250
575	M30S8W	6--35		318	(-70, -11)	212	285	(-70, 69)	302
576	M27S11W	6--36		434	(-70, -69)	158	163	(-80, -40)	313
577	M27S8W	6--37		290	(-50, 79)	172	226	(-80, 40)	227
578	H55S13W	6--38	YES	0	(0, 0)	0		SAME	
579	H55P16 SP	6--39		52	(-70, -11)	44		SAME	
580	T54P7W	6--40		282	(-80, 80)	272		SAME	
581	T54P10 9P	6--41		132	(-70, -11)	131	138	(-80, 40)	105
582	T54P7W	6--42		37	(-80, 40)	28	30	(-70, 69)	37
583	T54P10 9P	6--43		173	(-80, 40)	140		SAME	
584	H54S8 SP	6--44		368	(-70, 69)	372		SAME	
585	H59COP	6--45	YES	0	(0, 0)	0		SAME	
586	H57COP	6--46		641	(-80, -40)	658		SAME	
587	H57S13W	6--47		237	(-50, -30)	75	201	(-40, 80)	73
588	H59COP	6--48		911	(-70, -11)	0	18	(-40, 80)	-376
589	H53COP	6--49	YES	0	(0, 0)	0		SAME	
590	H53P13W	6--50		388	(-70, -69)	395		SAME	
591	H53S13W	6--51		288	(-60, -16)	229	232	(-50, -30)	214
592	H51COP	6--52	YES	0	(0, 0)	0		SAME	
593	H51S14P	6--53		472	(-70, 69)	471		SAME	
594	I52 SCOP	6--54		322	(-80, -40)	331		SAME	
595	I57COP	6--55		277	(-80, -40)	0	1	(-40, -80)	181
596	F49COP	6--56		19	(-20, 77)	3	10	(-80, 40)	13
597	F52 SCOW	6--57		27	(-20, 77)	4	4	(-50, 79)	13
598	F57COP	6--58	YES	0	(0, 0)	0		SAME	
599	H54.8S21P(C)	6--59		451	(-70, 69)	437		SAME	
600	H20S13 SP(D)	6--60		14	(-30, 79)	0	1	(-80, -40)	-7

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
601	TS1CDW	6-A-1	YES	0	( 0, 0)	0		SAME	
602	TS3CDW	6-A-2		15	(-80, 40)	9	9	(-70, 69)	15
603	TS4CDW	6-A-3	YES	46	(-50, -29)	5	18	(-70, 69)	-3
604	TS5CDW	6-A-4		159	(-60, 76)	9	10	(-30, 79)	14
605	Z60S10 9P	6-A-5		1434	(-80, 40)	1437		SAME	
606	Z60S6A	6-A-6		775	(-80, 40)	792		SAME	
607	Z60CDW	6-A-7	YES	1	( 0, 0)	0	1	(-80, 40)	1
608	Z59S10 9P	6-A-8		1137	(-80, 40)	1140		SAME	
609	Z59CDW	6-A-9		528	(-80, 40)	538		SAME	
610	Z58S10 9P	6-A-10		889	(-80, 40)	899		SAME	
611	Z58S6A	6-A-11		539	(-80, 40)	534		SAME	
612	Z58CDW	6-A-12		482	(-80, 40)	509		SAME	
613	Z57CDW	6-A-13		515	(-80, 40)	503		SAME	
614	Z57S10 9P	6-A-14		634	(-80, 40)	629		SAME	
615	Z56 2P10 9P	6-A-15		492	(-70, 1)	499		SAME	
616	Z56 2CDW	6-A-16		462	(-80, 40)	476		SAME	
617	Z56 2P6W	6-A-17		507	(-80, 40)	509		SAME	
618	Z56 256W	6-A-18		585	(-80, 40)	592		SAME	
619	Z56 2S10 9P	6-A-19		901	(-80, 40)	744		SAME	
620	Z55CDW	6-A-20		462	(-80, 40)	475		SAME	
621	Z55S10 9P	6-A-21		702	(-80, 40)	703		SAME	
622	Z54CDW	6-A-22		469	(-80, 40)	472		SAME	
623	Z55S6A	6-A-23		560	(-80, 40)	559		SAME	
624	Z54S10 9P	6-A-24		661	(-80, 40)	670		SAME	
625	Z53CDW	6-A-25		442	(-80, 40)	442		SAME	
626	Z51CDW	6-A-26	YES	0	( 0, 0)	0		SAME	
627	M51CDW	6-A-27	YES	0	( 0, 0)	0		SAME	
628	M51S11 1P	6-A-28		441	(-70, 69)	432		SAME	
629	M49CDP	6-A-29		326	(-80, 40)	330		SAME	
630	M53CDW	6-A-30	YES	0	( 0, 0)	0		SAME	
631	M53S11 1P	6-A-31		407	(-70, 69)	407		SAME	
632	M53S14P	6-A-32		511	(-70, 69)	511		SAME	
633	M53P11 1P	6-A-33		292	(-60, -16)	272	274	(-70, 11)	273
634	M53P14	6-A-34		281	(-50, -29)	86	235	( 40, -80)	68
635	M55CDW	6-A-35		328	(-80, 40)	314		SAME	
636	M55S11 1P	6-A-36		257	(-70, -57)	67	403	( 70, -69)	180
637	M55S14P	6-A-37		533	(-70, 69)	548		SAME	
638	M57CDW	6-A-38		0	( 0, 0)	0	346	(-80, 40)	0
639	M57S11 1P	6-A-39		555	(-70, 69)	555		SAME	
640	M57S14P	6-A-40		387	(-70, 69)	386		SAME	
641	M57P14	6-A-41	YES	0	( 0, 0)	0		SAME	
642	M57P11 1P	6-A-42		357	(-60, -16)	351		SAME	
643	M59CDW	6-A-43	YES	0	( 0, 0)	0		SAME	
644	M59S14P	6-A-44		522	(-70, 69)	525		SAME	
645	M59S11 1P	6-A-45		394	(-70, 69)	395		SAME	
646	W55 95M20 1RV	6-A-46		221	(-50, 79)	214	227	(-70, 69)	210
647	W55 95M20 1RD	6-A-47		219	( 40, 40)	149	180	(-10, 74)	192
648	W55 95M20 1RL	6-A-48		341	(-70, 69)	328		SAME	
649	W55 95T20 1RV	6-A-49		212	(-80, 40)	199	203	( 70, -69)	204
650	W55 95T20 1RD	6-A-50		262	(-80, 40)	217		SAME	
651	W55 95T20 1RL	6-A-51		771	(-70, 69)	710	717	(-80, 40)	704
652	W55 95ZM3 9RV	6-A-52		185	(-80, -40)	186		SAME	
653	W55 95ZM3 9RD	6-A-53		289	(-80, 40)	300		SAME	
654	W55 95ZM3 9RL	6-A-54		728	(-80, 40)	727		SAME	
655	W56 15ZM3 9RL	6-A-55		73	( 30, 49)	-2	3	(-80, 40)	-66
656	W56 15ZM3 9RD	6-A-56		43	(-60, 76)	-2	10	( 60, 16)	-20
657	W56 15ZM3 9RV	6-A-57		90	( 0, 69)	-2	77	(-80, 40)	2
658	W56 3P20P	6-A-58		346	( 60, -76)	347		SAME	
659	RESISTOR	6-A-59		31	( 20, 57)	0	3	(-80, 40)	7
660	W52S2MZ(D)	6-A-60		17	(-60, 76)	-2	3	( 10, -74)	-1
661	R56C0TTP	6-B-1	YES	0	( 0, 0)	0		SAME	
662	R56C0TTS	6-B-2		339	(-80, 40)	348		SAME	
663	R56P4TTP	6-B-3		81	( 40, -80)	45	50	( 10, -74)	71
664	R56P4TTS	6-B-4		244	(-70, 1)	271		SAME	
665	R56P8TTP	6-B-5		145	( 30, -79)	82	140	(-50, -29)	78
666	R56P8TTS	6-B-6		135	(-70, 1)	121	127	(-80, 40)	121
667	R56C0ZTP	6-B-7	YES	2	( 30, 49)	0	0	( 70, -69)	2
668	R56C0ZTS	6-B-8		67	(-80, 40)	71		SAME	
669	R56P4ZTP	6-B-9		101	(-10, -64)	96	130	(-60, -16)	89
670	R56P4ZTS	6-B-10		27	( 10, -74)	-7	18	(-10, -64)	23
671	R56P8ZTP	6-B-11		82	( 10, -74)	75	107	(-50, -29)	71
672	R56P8ZTS	6-B-12		57	(-10, -64)	50	54	(-40, -40)	53
673	R56C0MZP	6-B-13		64	(-50, -29)	77	93	(-70, 1)	62
674	R56C0MZS	6-B-14		47	( 0, 0)	0	50	(-70, 1)	29
675	R56C0MFP	6-B-15		101	( 0, -69)	20	30	(-80, -16)	5

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
676	B56CDMFS	6-B-16		31	[ 0. 0]	0	6	[-70. 1]	5
677	B56P8MFP	6-B-17		35	[ 0. 0]	0	21	[-50. -25]	16
678	B56P8MFS	6-B-18		88	[ 20. -77]	72	80	[ 50. -79]	60
679	B56CDF1P	6-B-19		164	[-80. 40]	9	49	[-10. -64]	26
680	B56CDF1S	6-B-20		63	[-80. 40]	67	SAME		
681	B56P6F1P	6-B-21		40	[ 0. 0]	0	45	[ 70. -69]	12
682	B56P6F1S	6-B-22		25	[ 70. -69]	35	SAME		
683	B56S4T1P	6-B-23		107	[ 0. 0]	28	100	[-70. 69]	56
684	B56S4T1S	6-B-24		287	[-80. 40]	280	SAME		
685	B16P211W1C1	6-B-25		43	[ 0. 0]	0	19	[-70. 69]	8
686	B56S8T1S	6-B-26	YES	0	[ 0. 0]	0	SAME		
687	B56S4Z1P	6-B-27		100	[-10. 74]	41	135	[-80. 40]	85
688	B56S4Z1S	6-B-28		113	[-70. 69]	132	SAME		
689	B56S8Z1P	6-B-29		90	[-10. 74]	54	93	[-70. 69]	67
690	B56S8Z1S	6-B-30		49	[-30. 79]	37	49	[-70. 69]	43
691	B56S8MFP	6-B-31	YES	0	[ 0. 0]	0	44	[-80. 40]	0
692	B56S8MFS	6-B-32		90	[ 0. 69]	25	40	[ 60. 16]	34
693	B56S6F1P	6-B-33		39	[ 0. 69]	3	22	[-80. -40]	-13
694	B56S6F1S	6-B-34		33	[ 40. 40]	22	33	[-80. -40]	23
695	B56CDHHRH	6-B-35		179	[-70. 69]	138	156	[-80. 40]	175
696	B56CDHHRD	6-B-36		113	[-80. 40]	118	SAME		
697	B56CDHHRV	6-B-37		52	[ 60. -76]	40	60	[ 80. -40]	50
698	B56P711RV	6-B-38		0	[ 0. 0]	0	58	[-80. -40]	0
699	B56P711RD	6-B-39		50	[ 30. -79]	23	61	[ 80. -40]	44
700	B56P711RH	6-B-40		107	[-80. -40]	95	SAME		
701	B56P111FRV	6-B-41		34	[ 0. 0]	0	10	[-50. 30]	30
702	B56P111FRD	6-B-42		336	[-80. 40]	326	SAME		
703	B56P111FRH	6-B-43		66	[-80. 40]	25	SAME		
704	B56P13FFRV	6-B-44		39	[ 20. 57]	20	21	[-10. 74]	33
705	B56P13FFRD	6-B-45		136	[-70. 69]	149	SAME		
706	B56P13FFRH	6-B-46		41	[ 30. -79]	48	49	[ 50. -79]	39
707	B56S711RH	6-B-47		44	[-70. -69]	45	51	[-80. -40]	42
708	B56S711RD	6-B-48		82	[ 0. 69]	-9	50	[-80. 40]	-20
709	B56S711RV	6-B-49		53	[-20. 77]	-2	32	[-80. -40]	-7
710	B56S111FRH	6-B-50		148	[ 70. -1]	144	149	[ 80. -40]	148
711	B56S111FRD	6-B-51		270	[-80. -40]	297	SAME		
712	B56S111FRV	6-B-52		49	[-60. -16]	47	44	[-70. 1]	47
713	B56S13FFRH	6-B-53		24	[-20. 77]	82	87	[-40. 80]	76
714	B56S13FFRD	6-B-54		29	[ 40. -80]	27	27	[-50. -79]	27
715	B56S13FFRV	6-B-55		127	[-60. -16]	125	134	[-70. 1]	125
716	M3E 154P(C)	6-B-56		35	[ 80. -40]	35	SAME		
717	M3E54P(C)	6-B-57		519	[-80. 40]	522	SAME		
718	M32 158P(C)	6-B-58		373	[-70. 69]	377	SAME		
719	M32 1P 5P(C)	6-B-59		383	[-80. 40]	295	SAME		
720	RES157OR	6-B-60		58	[ 60. 16]	66	73	[-80. -40]	40
721	APMM36C1PA	5-- 1		373	[-70. 69]	249	SAME		
722	APMM36C2PA	5-- 2		680	[-80. 40]	710	SAME		
723	APMM36C3PA	5-- 3		706	[-80. 40]	701	SAME		
724	APMM36C4PA	5-- 4	YES	278	[-70. 1]	278	SAME		
725	APMM36C5PA	5-- 5		323	[-70. 1]	297	SAME		
726	APMM36P3PA4	5-- 6		279	[-70. 1]	278	SAME		
727	APMM36C1PF	5-- 7		249	[-70. 1]	253	SAME		
728	APMM36C2PF	5-- 8		292	[-70. 1]	281	284	[-60. -16]	280
729	APMM36C3PF	5-- 9		514	[-60. -16]	515	SAME		
730	APMM36C4PF	5-- 10		452	[-40. -40]	446	SAME		
731	APMM36C5PF	5-- 11		239	[-40. -80]	242	SAME		
732	APMM36P1PFO 5	5-- 12		309	[-60. -16]	303	303	[-70. 1]	307
733	APMM36P3PFO 5	5-- 13		331	[-70. 1]	324	SAME		
734	APMM36P5PFO 5	5-- 14		427	[-60. -16]	427	SAME		
735	APMM36RLPF	5-- 15		486	[-60. -16]	478	SAME		
736	APMM36RDPF	5-- 16		234	[-40. -40]	230	SAME		
737	APMM36RHFF	5-- 17		248	[-80. -40]	258	SAME		
738	APMM36P3PF2	5-- 18		320	[-50. -29]	284	301	[-70. 1]	314
739	APMM36P3PF4	5-- 19		297	[-70. 1]	298	SAME		
740	M35 3P11 1P	5-- 20		273	[-70. 1]	271	SAME		
741	M35 3P11 5P	5-- 21		284	[-70. 1]	286	SAME		
742	M35 3P12P	5-- 22		240	[-60. -16]	196	SAME		
743	M38 6P11 7P	5-- 23		168	[-40. -40]	161	SAME		
744	APMZ33C315	5-- 24		20	[-80. -40]	16	17	[-60. -16]	20
745	APMZ33C308	5-- 25		188	[-80. -40]	190	SAME		
746	APMZ33C300(R)	5-- 26		8	[ 0. 0]	0	3	[ 80. -76]	2
747	APMZ33C293	5-- 27		508	[-80. 40]	513	SAME		
748	APMZ33RVMM	5-- 28		24	[-60. 76]	23	23	[-50. 79]	22
749	APMZ33RDMM	5-- 29	YES	0	[ 0. 0]	0	0	[-80. 40]	0
750	APMZ33RLMM	5-- 30		174	[-70. 1]	168	SAME		

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	① MAXIMUM MEASURED STRAIN			② MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	① MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	② MOMENT (VERT. LAT)	MEASURED STRAIN
751	APM233RLNA	5-A-31	YES	0	( 0, 0)	0	0	( 80, -40)	0
752	APM233RDNA	5-A-32		472	(-80, 40)	477		SAME	
753	APM233RVNA	5-A-33		55	(-70, 69)	55		SAME	
754	AP2238C2PA	5-A-34		1312	(-80, 40)	1311		SAME	
755	AP2238C3PA	5-A-35	YES	0	( 0, 0)	0		SAME	
756	AP2238C4PA	5-A-36	YES	0	( 0, 0)	0		SAME	
757	AP2238P3PA 5	5-A-37		494	(-80, 40)	491		SAME	
758	AP2238P3PA2	5-A-38		347	(-70, 1)	338	349	(-80, 40)	335
759	AP2238P3PA4	5-A-39		285	(-70, 1)	286	288	(-80, 40)	281
760	AP2238RHPA	5-A-40		67	(-30, 79)	52		SAME	
761	AP2238RDPA	5-A-41	YES	0	( 0, 0)	0		SAME	
762	AP2238RLPA	5-A-42		884	(-80, 40)	876		SAME	
763	APM239C315	5-A-43		498	(-80, 40)	488		SAME	
764	APM239C308	5-A-44		479	(-80, 40)	467		SAME	
765	APM239C300	5-A-45		439	(-80, 40)	445		SAME	
766	APM239C293	5-A-46		515	(-80, 40)	509		SAME	
767	APM242C315	5-A-47		501	(-80, 40)	484		SAME	
768	APM242C308	5-A-48		472	(-80, 40)	474		SAME	
769	APM242C300(R)	5-A-49		94	(-70, 1)	-19	38	( 70, -69)	51
770	APM242C293	5-A-50		465	(-80, 40)	450		SAME	
771	B16P3MHR	5-A-51		59	( 30, 49)	46	61	( 70, -1)	47
772	B16P3MRD	5-A-52		93	( 50, -79)	50	90	( 80, -40)	53
773	B16P3MRV	5-A-53		322	( 0, 0)	0	37	( 80, -40)	6
774	H23P17MFP(U)	5-A-54		192	(-30, -49)	115	117	(-40, -40)	138
775	H23 9P16MFP(HSU)	5-A-55		401	(-80, -40)	405		SAME	
776	H23 9P16MFP(HSL)	5-A-56		429	(-80, 40)	454		SAME	
777	B24P10 SMHR	5-A-57		28	(-80, 40)	12	18	(-50, 79)	22
778	B24P10 SMRD	5-A-58		112	( 80, -40)	108		SAME	
779	B24P10 SMRV	5-A-59		93	( 80, -40)	93		SAME	
780	W36P2M(D)	5-A-60		13	(-20, 77)	1	3	(-80, 40)	5
781	APMM44C1PA	5-A-1	YES	0	( 0, 0)	0		SAME	
782	APMM44C2PA	5-A-2		726	(-70, 1)	732	741	(-80, 40)	720
783	APMM44C3PA	5-A-3		731	(-70, 1)	733		SAME	
784	APMM44C4PA	5-A-4	YES	613	(-70, 69)	621		SAME	
785	APMM44C5PA	5-A-5		346	(-70, 1)	334		SAME	
786	APMM44P3PA4	5-A-6		327	(-60, -16)	314	321	(-70, 1)	320
787	APMM44C1PF	5-A-7		307	(-70, 1)	298		SAME	
788	APMM44C2PF	5-A-8		326	(-60, -16)	321		SAME	
789	APMM44C3PF	5-A-9		550	(-60, -16)	547		SAME	
790	APMM44C4PF	5-A-10		497	(-40, -40)	491		SAME	
791	APMM44C5PF	5-A-11		208	( 20, -77)	196	206	( 40, -80)	202
792	APMM44P1PF 5	5-A-12		330	(-60, -16)	324		SAME	
793	APMM44P3PF 5	5-A-13		354	(-70, 1)	349	349	(-60, -16)	350
794	APMM44P5PF 5	5-A-14		458	(-60, -16)	455		SAME	
795	APMM44RLPF	5-A-15		515	(-60, -16)	509		SAME	
796	APMM44RDPF	5-A-16		220	(-40, -40)	216		SAME	
797	APMM44RHPF	5-A-17		263	( 0, 69)	4	5	(-40, 80)	-176
798	APMM44P3PF 2	5-A-18		357	(-60, -16)	329	335	(-70, 1)	340
799	APMM24P3PF 4	5-A-19		328	(-70, 1)	330		SAME	
800	M43 3P11 1P	5-A-20		321	(-60, -16)	313	322	(-70, 1)	316
801	M43 3P11 5P	5-A-21		307	(-70, 1)	297		SAME	
802	M43 3P12 0P	5-A-22		321	(-50, -29)	282	291	(-60, -16)	290
803	M43 4P11 7P	5-A-23		365	(-70, 1)	358		SAME	
804	APM246C292	5-A-24		522	(-80, 40)	506		SAME	
805	APM246C285	5-A-25		436	(-70, 1)	-2	87	( 40, -80)	-160
806	APM246C277	5-A-26		374	(-70, 1)	373		SAME	
807	APM246C270	5-A-27		313	(-70, 1)	316		SAME	
808	AP2246C3PA	5-A-28		1115	(-80, 40)	1120		SAME	
809	AP2246C3PF	5-A-29	YES	1	( 0, 0)	0	0	(-80, 40)	1
810	AP2252C35F	5-A-30		717	(-70, 69)	721		SAME	
811	AS2252C35A	5-A-31	YES	0	( 0, 0)	0	0	(-80, 40)	-2
812	APM262C101	5-A-32		350	(-70, 1)	341		SAME	
813	APM262C094	5-A-33		321	(-60, -16)	299	318	(-70, 1)	315
814	APM262C086(R)	5-A-34		93	( 80, -40)	21		SAME	
815	APM262CD78	5-A-35	YES	0	( 0, 0)	0		SAME	
816	APM262RLZA	5-A-36	YES	0	( 0, 0)	0		SAME	
817	APM262RDZA	5-A-37		100	( 0, 0)	0	33	( 0, -69)	-24
818	APM262RHZA	5-A-38		84	( 0, 0)	0	28	( 0, -69)	-21
819	ASMM66C15F	5-A-39		600	(-80, 40)	610		SAME	
820	ASMM66C25F	5-A-40		805	(-80, 40)	818		SAME	
821	ASMM66C35F	5-A-41		836	(-80, 40)	862		SAME	
822	ASMM66C45F	5-A-42		543	(-80, 40)	545		SAME	
823	ASMM66C55F	5-A-43		515	(-80, 40)	517		SAME	
824	M59 5P 5P(AC)	5-A-44		375	(-80, 40)	372		SAME	
825	M59 5P 5P(PCD)	5-A-45		208	(-80, 40)	210		SAME	



TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
826	M59 8P SP(FCI)	5-A-46		251	(-80, 40)	254			
827	M4855W(BMSU)	5-A-47	YES	94	(-80, 40)	5	59	(-10, 74)	15
828	B56P8MMS(BM)	5-A-48		74	(-80, 40)	67	69	(-70, 69)	66
829	M4855W(BMSL)	5-A-49	YES	0	(0, 0)	0			
830	B56P8M2S(BM)	5-A-50		96	(30, -79)	67	82	(-20, -57)	68
831	B40S9MMP(C)	5-A-51		442	(80, -40)	435			
832	B64P8MMS(BM)	5-A-52		35	(-10, 74)	1	39	(80, -40)	15
833	H23 9S19S	5-A-53		82	(80, -40)	112			
834	B24S9 SMRRV(C)	5-A-54		76	(-70, 1)	57			
835	B24S9 SMRRD(C)	5-A-55		91	(-80, 40)	60	62	(-70, 1)	58
836	B24S9 SMRRH(C)	5-A-56		37	(20, -77)	29	33	(80, -76)	29
837	H23 9S16P(HSU)	5-A-57		245	(80, -40)	249			
838	H23 9S16P(HSL)	5-A-58		490	(-80, 40)	502			
839	H23P17MFP(L)	5-A-59		102	(-50, -29)	95	96	(-60, -16)	103
840	H44P2M2(D)	5-A-60		19	(0, 69)	3	4	(-50, 79)	9
841	M23 9S4 SP(HSD)	5-B-1		91	(-20, -57)	88	93	(-50, -29)	91
842	M23 9S4 SP(HSI)	5-B-2		145	(-10, 74)	94	98	(-30, 79)	115
843	H24 1P8 SP(HSL)	5-B-3		377	(40, -80)	63	205	(80, -40)	306
844	H24 1P8 SP(HSU)	5-B-4	YES	359	(-70, 1)	357			
845	H24 1P13 SP(C)	5-B-5		51	(0, 69)	25	25	(0, 69)	11
846	H29 3P17 BRH	5-B-6		52	(-20, 77)	24	31	(30, 49)	24
847	H29 3P17 BRD	5-B-7		669	(-80, 40)	671			
848	H29 3P17 BRL	5-B-8		138	(-20, -57)	137	139	(-30, -49)	138
849	H31 9P14S(C)	5-B-9		95	(20, -77)	94	95	(10, -74)	95
850	B32P8FIRH(C)	5-B-10		37	(-10, 74)	10	39	(70, -1)	31
851	B32P8FIRD(C)	5-B-11		49	(-70, -1)	42			
852	B32P8FIRV(C)	5-B-12		133	(-80, 40)	127			
853	M31 8P11W	5-B-13		176	(-70, 1)	172			
854	M31 8P10 SP	5-B-14		211	(-70, 1)	203			
855	H37P20P	5-B-15		196	(-40, -40)	191	191	(-50, -29)	196
856	H37S20P(CU)	5-B-16		299	(-70, 69)	304			
857	H37S20P(CL)	5-B-17		292	(-70, 69)	286			
858	H37S19P(C)	5-B-18		291	(-70, 69)	291			
859	H37 4S20P(C)	5-B-19		324	(-70, 69)	326			
860	B40S8 SMFRV(BB)	5-B-20		50	(-10, 74)	16	27	(50, 30)	11
861	B40S8 SMFRD(BB)	5-B-21		156	(-80, 40)	132	144	(-70, 69)	152
862	B40S8 SMFRH(BB)	5-B-22		199	(-80, 40)	174			
863	H45S20P(LP)	5-B-23		307	(-70, 69)	312	314	(-60, 76)	301
864	H45 4S21P(C)	5-B-24		490	(-70, 69)	482			
865	H45 4S21P(C)	5-B-25		489	(-70, 69)	478			
866	H41P20P(C)	5-B-26		65	(-10, 74)	57	59	(-30, 79)	59
867	H47 9P9P(C)	5-B-27		462	(70, -69)	460			
868	B48P8 2MRRV(BB)	5-B-28		83	(-80, 40)	58			
869	B48P8 2MRRD(BB)	5-B-29		2	(0, 0)	0	0	(-80, 40)	2
870	B48P8 2MRRH(BB)	5-B-30	YES	54	(10, -74)	38	67	(70, -69)	14
871	H42 6P20P(C)	5-B-31	YES	1	(0, 0)	0	0	(-20, 77)	1
872	B48P12MMP(CI)	5-B-32		45	(80, -40)	35	35	(70, -1)	37
873	B48P12MMP(CO)	5-B-33		60	(70, -69)	53	69	(80, -40)	42
874	B48C01P(C)	5-B-34		44	(50, 30)	33	55	(80, -40)	26
875	155 9P2P(C)	5-B-35	YES	0	(0, 0)	0			
876	H48 5P10P(CO)	5-B-36	YES	0	(0, 0)	0			
877	H51P14P(CU)	5-B-37		303	(80, -76)	307			
878	H51P14P(CL)	5-B-38		411	(70, -69)	423			
879	H49P19P(C)	5-B-39		221	(-30, -49)	217	219	(-20, -57)	217
880	H51P18P(C)	5-B-40		200	(-30, -49)	191	194	(-20, -57)	198
881	M56P8W(BMSUD)	5-B-41		117	(-70, 1)	115			
882	M56P8W(BMSLD)	5-B-42	YES	128	(0, 0)	0	67	(-50, -29)	77
883	M56P8W(BMSUD)	5-B-43		118	(-70, 1)	110			
884	M56P8W(BMSLD)	5-B-44	YES	0	(0, 0)	0			
885	RESISTOR	5-B-45		26	(0, 0)	0	4	(-60, 76)	4
886	M40S3W(BMSU)	5-B-46		171	(-70, 1)	205	216	(-80, 40)	167
887	B56P8MMP(BM)	5-B-47		114	(10, -74)	90	93	(-10, -64)	95
888	M4855W(BMSU)	5-B-48	YES	0	(0, 0)	0			
889	B56P8M2P(BM)	5-B-49		45	(20, -77)	34	37	(-10, -64)	39
890	M21 8P10W	5-B-50		195	(-60, -16)	201	203	(-70, -1)	195
891	H16S12P(CU)	5-B-51		99	(-70, 69)	81			
892	H16S12P(CM)	5-B-52		108	(-70, 69)	81			
893	H16S12P(CL)	5-B-53		135	(-70, 69)	116			
894	H16S12P(C)	5-B-54		21	(-10, -64)	8	14	(80, -76)	7
895	H10 6S8S(C)	5-B-55		83	(-70, 69)	71			
896	H12P14P(C)	5-B-56		30	(-80, -16)	23	23	(-70, 1)	30
897	H12P14P(C)	5-B-57		20	(10, -74)	13	14	(30, -79)	16
898	B16P8P(C)	5-B-58		98	(80, -40)	113			
899	H23S20P(C)	5-B-59		190	(-70, 69)	180			
900	RESISTOR	5-B-60		6	(0, 0)	0	1	(50, 30)	-2

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
901	B64C0ZZP	4--1		81	(-60, 76)	46	66	(-80, 40)	57
902	B64C0ZZS	4--2		41	(-70, 11)	51	55	(-80, 40)	41
903	B64P4ZZP	4--3		42	(-10, -64)	24	30	(-40, -80)	0
904	B64P8ZZS	4--4		131	(-70, 11)	152	154	(-80, 40)	125
905	B64P8ZZP	4--5		72	(-60, -16)	69	70	(-70, 11)	72
906	B64P8ZZS	4--6		56	(-30, -49)	51	73	(-70, 11)	41
907	B64CDMZP	4--7		56	(-60, -16)	75	87	(-80, 40)	43
908	B64CDMZS	4--8		45	(-70, 69)	35	37	(-80, 40)	41
909	B64P4MZP	4--9		57	(-50, -29)	62	72	(-70, 11)	57
910	B64P8MZS	4--10		85	(-60, -16)	89	94	(-70, 11)	81
911	B64P8MZP	4--11		46	(-10, -64)	21	22	(-20, -77)	35
912	B64P8MZS	4--12		99	(-70, 11)	97	SAME		
913	B64CDMPF	4--13		42	(-30, 79)	3	19	(-80, 40)	11
914	B64CDMFS	4--14		39	(-50, -29)	33	47	(-80, 40)	27
915	B64P2MFP	4--15		19	(-50, -29)	24	29	(-80, 40)	11
916	B64P2MFS	4--16	YES	1	(0, 0)	0	0	(-20, -79)	1
917	B64COF1P	4--17		38	(-80, 40)	57	SAME		
918	B64COF1S	4--18		42	(-70, 69)	40	47	(-80, 40)	40
919	B64P6F1P	4--19		32	(-20, -77)	19	37	(-70, -69)	10
920	B64P6F1S	4--20		37	(0, 0)	0	38	(-50, -79)	23
921	B64S4ZZP	4--21		60	(-40, 80)	43	80	(-80, 40)	50
922	B64S4ZZS	4--22		104	(-80, 40)	103	SAME		
923	B64S8ZZP	4--23		131	(-60, 76)	107	117	(-80, 40)	109
924	B64S8ZZS	4--24		43	(-10, 74)	15	36	(-70, 69)	27
925	B64S4MZP	4--25		78	(-70, 69)	87	95	(-80, 40)	68
926	B64S4MZS	4--26		118	(-80, 40)	170	SAME		
927	B64S8MZP	4--27		83	(-80, 40)	101	SAME		
928	B64S8MZS	4--28		124	(-80, 40)	135	SAME		
929	B64S4MPP	4--29		81	(-50, 79)	73	109	(-80, 40)	57
930	B64S4MFS	4--30		66	(-30, 79)	41	89	(-80, 40)	30
931	B64S6F1P	4--31		51	(-50, 79)	51	74	(-80, 40)	27
932	B64S6F1S	4--32		72	(-40, 80)	61	93	(-80, 40)	52
933	B64COHHRH	4--33		14	(80, -40)	16	SAME		
934	B64COHHRD	4--34		18	(-50, 79)	8	8	(-60, 76)	13
935	B64COHHRV	4--35		18	(0, 0)	0	8	(-70, -11)	8
936	B64P711RV	4--36		44	(-30, -79)	43	70	(-70, -69)	20
937	B64P711RD	4--37	YES	15	(-40, 40)	3	6	(-80, -40)	9
938	B64P711RH	4--38		99	(80, -40)	100	SAME		
939	B64P11F1RV	4--39		417	(-80, 40)	402	SAME		
940	B64P11F1RD	4--40		71	(-60, 16)	35	69	(-70, -69)	63
941	B64P11F1RH	4--41		420	(0, 0)	0	117	(-70, 11)	261
942	B64P13FFRV	4--42		91	(-30, 79)	82	86	(-50, 79)	83
943	B64P13FFRD	4--43		214	(-70, 69)	248	SAME		
944	B64P13FFRH	4--44		34	(0, 0)	0	17	(-80, -40)	22
945	B64S711RH	4--45		59	(-70, -69)	35	44	(-80, -40)	54
946	B64S711RD	4--46		50	(-80, -76)	27	41	(-80, -40)	28
947	B64S711RV	4--47		19	(0, 69)	-10	11	(-40, -80)	11
948	B64S11F1RH	4--48		83	(-70, -11)	44	77	(-10, 64)	47
949	B64S11F1RD	4--49		352	(-80, 40)	318	SAME		
950	B64S11F1RV	4--50		68	(-30, -49)	41	43	(-20, -69)	57
951	B64S1311RH	4--51	YES	0	(0, 0)	0	SAME		
952	B64S1311RD	4--52		148	(-70, 69)	150	175	(-80, 40)	146
953	B64S1311RV	4--53		23	(-60, -16)	17	19	(-80, 40)	7
954	H61 2520P(CU)	4--54		546	(-70, 69)	546	SAME		
955	MS9S8P(C)	4--55		433	(-70, 69)	433	SAME		
956	APM246C112	4--56		308	(-80, 40)	318	SAME		
957	APM246C105	4--57		291	(-70, 11)	286	286	(-80, 40)	283
958	APM246C97	4--58	YES	330	(-70, 11)	338	SAME		
959	APM246C90	4--59		128	(-30, -49)	111	126	(-60, -16)	129
960	H60P19(D)	4--60		11	(-50, 79)	5	9	(-80, 40)	5
961	H61P14P(G)	4-A-1	YES	0	(0, 0)	0	SAME		
962	H61P11 1P	4-A-2		314	(-60, -16)	312	SAME		
963	H61P10W	4-A-3		284	(-60, -16)	280	282	(-70, 11)	292
964	H61P6W	4-A-4		271	(-70, 11)	274	SAME		
965	H61P2W	4-A-5		298	(-80, 40)	296	SAME		
966	H61C0W	4-A-6	YES	0	(0, 0)	0	SAME		
967	H61S2W	4-A-7		309	(-80, 40)	310	SAME		
968	H61S4W	4-A-8		277	(-80, 40)	274	SAME		
969	H61S8W	4-A-9		370	(-70, 69)	383	388	(-80, 40)	366
970	H61S8W	4-A-10		399	(-70, 69)	388	SAME		
971	H61S9 5P	4-A-11		388	(-70, 69)	397	SAME		
972	H61S10W	4-A-12		410	(-70, 69)	397	SAME		
973	H61S10 5P	4-A-13		395	(-70, 69)	393	SAME		
974	H61S11 1P	4-A-14		451	(-70, 69)	454	SAME		
975	H61S12W	4-A-15		488	(-70, 69)	477	SAME		

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
976	M61S12 SP	4-A-16	YES	2	[ 0, 0]	0	0	[ -80, 40]	0
977	M61S13W	4-A-17		524	[ -50, 79]	450	510	[ -70, 69]	499
978	M61S14P	4-A-18		509	[ -70, 69]	510		SAME	
979	Z61C0W	4-A-19		660	[ -80, 40]	681		SAME	
980	Z61S2W	4-A-20		371	[ -80, 40]	365		SAME	
981	Z61S4W	4-A-21		444	[ -80, 40]	442		SAME	
982	Z61S6W	4-A-22		879	[ -80, 40]	909		SAME	
983	Z61S8W	4-A-23		750	[ -80, 40]	760		SAME	
984	Z61S9W	4-A-24		776	[ -80, 40]	799		SAME	
985	Z61S10W	4-A-25		1033	[ -80, 40]	1052		SAME	
986	Z61S10 SP	4-A-26		1719	[ -80, 40]	1260		SAME	
987	Z61S10 9P	4-A-27		1172	[ -80, 40]	1214		SAME	
988	Z61P6W	4-A-28		914	[ -80, 40]	912		SAME	
989	Z61P10W	4-A-29		955	[ -80, 40]	981		SAME	
990	M61S2M3 9P	4-A-30		1246	[ -80, 40]	1284		SAME	
991	M61SHZ0 1P	4-A-31		842	[ -80, 40]	866		SAME	
992	M61S21P	4-A-32		906	[ -80, 40]	930	933	[ -70, 69]	896
993	M61S3W	4-A-33		513	[ -80, -40]	519		SAME	
994	M61P5W	4-A-34		560	[ -80, -40]	561		SAME	
995	M61S5W	4-A-35		444	[ -80, -40]	439		SAME	
996	M61S7W	4-A-36		359	[ -70, -1]	361		SAME	
997	M61P7W	4-A-37	YES	73	[ -70, -1]	48		SAME	
998	M61S9W	4-A-38		344	[ -70, 69]	341	345	[ -60, 76]	344
999	M61S11W	4-A-39		451	[ -70, -69]	459		SAME	
1000	M61P11W	4-A-40		462	[ -80, -40]	461		SAME	
1001	M61S13W	4-A-41		259	[ -50, 30]	249		SAME	
1002	M61S14W	4-A-42		217	[ -40, 40]	220		SAME	
1003	M61P14W	4-A-43		298	[ -70, -69]	375		SAME	
1004	M61S15W	4-A-44		212	[ -0, 69]	203	203	[ -0, 69]	196
1005	M61S16 SP	4-A-45		236	[ -40, 80]	226		SAME	
1006	M61P16 SP	4-A-46		205	[ -20, -77]	206	214	[ -40, -80]	199
1007	M61S18W	4-A-47		678	[ 0, 0]	0	1206	[ -70, -69]	513
1008	M61S20W	4-A-48		479	[ -70, 69]	480		SAME	
1009	M61P20W	4-A-49		296	[ -50, -29]	295		SAME	
1010	M57 9P9S(C)	4-A-50		192	[ -70, -69]	169		SAME	
1011	B56P811P(C)	4-A-51		64	[ -60, -76]	67	94	[ -80, -40]	25
1012	ASMZ76C09B	4-A-52		438	[ -80, 40]	432		SAME	
1013	ASMZ76C10S	4-A-53		463	[ -80, 40]	477		SAME	
1014	ASMZ76C11Z	4-A-54		527	[ -80, 40]	530		SAME	
1015	ASMMS66C55A	4-A-55		798	[ -70, 69]	788		SAME	
1016	ASMMS66C45A	4-A-56		900	[ -70, 69]	887		SAME	
1017	ASMMS66C35A	4-A-57		856	[ -70, 69]	856		SAME	
1018	ASMMS66C15A	4-A-58	YES	3423	[ -40, 40]	-109	349	[ -50, -79]	1077
1019	ASMMS66C15A	4-A-59		573	[ -70, 69]	566		SAME	
1020	M68S2M2(D)	4-A-60		10	[ -60, -40]	0	1	[ -60, 76]	2
1021	B72C0HRRH	4-B-1		39	[ -70, 69]	41	45	[ -80, 40]	35
1022	B72C0HRRD	4-B-2		62	[ -70, 69]	49	53	[ -80, 40]	57
1022	B72C0HRRV	4-B-3		98	[ -80, 40]	86		SAME	
1024	B72P12 5FIRV	4-B-4		156	[ -80, -40]	149	161	[ -70, -69]	188
1025	B72P12 5FIRD	4-B-5		165	[ -80, 40]	135		SAME	
1026	B72P12 5FIRH	4-B-6		82	[ -80, -40]	83		SAME	
1027	B72S12 5FIRH	4-B-7		105	[ -70, -1]	73	80	[ -50, 30]	78
1028	B72S12 5FIRD	4-B-8		189	[ -70, -1]	184		SAME	
1029	B72S12 5FIRV	4-B-9		100	[ 0, 0]	0	31	[ -20, -57]	12
1030	Z62 5C0W	4-B-10		539	[ -80, 40]	551		SAME	
1031	Z65C0W	4-B-11		482	[ -80, 40]	492		SAME	
1032	Z67C0W	4-B-12		498	[ -80, 40]	501		SAME	
1033	Z69C0W	4-B-13		506	[ -80, 40]	515		SAME	
1034	Z71C0W	4-B-14		477	[ -80, 40]	488		SAME	
1035	Z63S6W	4-B-15		615	[ -80, 40]	621		SAME	
1036	Z63S11W	4-B-16	YES	0	[ 0, 0]	0	1	[ -70, -1]	0
1037	M63C0W	4-B-17		322	[ -80, 40]	1	1	[ -40, 80]	162
1038	M63S11 1P	4-B-18		495	[ -70, 69]	494		SAME	
1039	M63S14P	4-B-19		573	[ -70, 69]	574		SAME	
1040	M65C0W	4-B-20		321	[ -80, 40]	327		SAME	
1041	M65S11 1P	4-B-21		465	[ -70, 69]	499		SAME	
1042	M65S14P	4-B-22		593	[ -70, 69]	602		SAME	
1043	M65P14P	4-B-23		368	[ -60, -16]	356		SAME	
1044	M65P11 1P	4-B-24		318	[ -60, -16]	320		SAME	
1045	M67C0W	4-B-25	YES	0	[ 0, 0]	0		SAME	
1046	M67S11 1P	4-B-26		465	[ -70, 69]	470		SAME	
1047	M67S14P	4-B-27		489	[ -70, 69]	504		SAME	
1048	M69C0W	4-B-28	YES	0	[ 0, 0]	0		SAME	
1049	M69S11 1P	4-B-29		455	[ -70, 69]	463		SAME	
1050	M69S14P	4-B-30		491	[ -70, 69]	490		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT [VERT. LAT]	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT [VERT. LAT]	MEASURED STRAIN
1051	M69P11 IP	4-B-31		345	(-80, 40)	352		SAME	
1052	M69P14P	4-B-32	YES	0	(0, 0)	0		SAME	
1053	M71COW	4-B-33		305	(-80, 40)	305		SAME	
1054	M71S10 IP	4-B-34		427	(-70, 69)	427		SAME	
1055	M71S13P	4-B-35		3857	(0, 0)	0	596	(-70, 65)	
1056	M63S8 SP	4-B-36		357	(-70, 69)	360		SAME	
1057	I69COP	4-B-37	YES	52	(80, -40)	33		SAME	
1058	I65COP	4-B-38		9	(10, 64)	3	4	(60, 16)	
1059	F65CONA	4-B-39	YES	0	(0, 0)	0		SAME	
1060	H63COP	4-B-40		337	(80, -40)	342		SAME	
1061	H65COP	4-B-41		811	(80, -40)	645		SAME	
1062	H65S13W	4-B-42		228	(60, 16)	225	230	(50, 30)	
1063	H67COP	4-B-43	YES	0	(0, 0)	0		SAME	
1064	H69P13W	4-B-44		369	(70, -69)	367		SAME	
1065	H69COP	4-B-45	YES	0	(0, 0)	0		SAME	
1066	H69S13W	4-B-46		0	(0, 0)	0	276	(80, 40)	
1067	H7COP	4-B-47		485	(80, -40)	489		SAME	
1068	I61COP	4-B-48		347	(80, -40)	343		SAME	
1069	F61CONA	4-B-49		14	(-70, 69)	11	12	(80, 40)	
1070	B64S8 SMRRV	4-B-50		59	(-60, 76)	43	45	(70, 65)	
1071	B64S8 SMRRD	4-B-51		128	(-70, 69)	98	104	(80, 40)	
1072	B64S8 SMRRH	4-B-52		595	(-80, 40)	253		SAME	
1073	H65S20P[CU]	4-B-53		455	(-70, 69)	455		SAME	
1074	H65S20P[ACL]	4-B-54		430	(-70, 69)	423		SAME	
1075	H65S20P[FCL]	4-B-55		378	(-70, 69)	377		SAME	
1076	ASM276C09D	4-B-56		350	(-70, 69)	353		SAME	
1077	ASM262C65	4-B-57		401	(-70, 1)	400		SAME	
1078	ASM262C80	4-B-58	YES	5574	(0, 69)	-170	517	(70, -69)	
1079	ASM262C55	4-B-59		316	(-70, 1)	318		SAME	
1080	H66S19P[D]	4-B-60		31	(0, 0)	0	2	(80, -40)	
1081	B80C02ZP	3--1		110	(-80, 40)	104		SAME	
1082	B80C02ZS	3--2		220	(80, -40)	218		SAME	
1083	B80P32ZP	3--3		74	(-80, 40)	77		SAME	
1084	B80P32ZS	3--4		139	(80, -40)	135		SAME	
1085	B80P82ZP	3--5		36	(-80, 40)	34	34	(-70, 1)	
1086	B80P82ZS	3--6		72	(80, -40)	75		SAME	
1087	B80C0M2P	3--7		18	(-10, 74)	7	11	(-70, 69)	
1088	B80C0M2S	3--8		25	(70, -69)	32	34	(80, -40)	
1089	B80P3M2P	3--9		31	(-70, 1)	28	28	(-80, 40)	
1090	B80P3M2S	3--10		74	(80, -40)	76		SAME	
1091	B80P8M2P	3--11		10	(70, -1)	10	12	(80, -40)	
1092	B80P8M2S	3--12		28	(70, -1)	23	26	(80, -40)	
1093	B80C0MFP	3--13	YES	0	(0, 0)	0		SAME	
1094	B80C0MFS	3--14		43	(0, -69)	6	6	(30, -79)	
1095	B80P9MFP	3--15		30	(30, 49)	17	27	(70, -1)	
1096	B80P9MFS	3--16		511	(30, 89)	-31	35	(10, -74)	
1097	B80C0F1P	3--17		41	(80, -40)	48		SAME	
1098	B80C0F1S	3--18		115	(-80, 40)	112		SAME	
1099	B80P6F1P	3--19		31	(70, -69)	30	35	(80, -40)	
1100	B80P6F1S	3--20		29	(70, -69)	36	36	(80, -40)	
1101	B80S42ZP	3--21		92	(-80, 40)	91		SAME	
1102	B80S42ZS	3--22		197	(80, -40)	195		SAME	
1103	B80S82ZP	3--23		73	(-80, 40)	71		SAME	
1104	B80S82ZS	3--24		136	(80, -40)	146		SAME	
1105	B80S4M2P	3--25		22	(-70, 1)	21	23	(-80, 40)	
1106	B80S4M2S	3--26		27	(70, -1)	28		SAME	
1107	B80S8M2P	3--27		11	(40, 40)	4	8	(80, -40)	
1108	B80S8M2S	3--28		55	(70, -69)	46	46	(80, -40)	
1109	B80S7MFP	3--29		5	(70, -69)	5	6	(80, -40)	
1110	B80S7MFS	3--30		33	(-50, 79)	22	23	(-70, 69)	
1111	B80S6F1P	3--31		34	(80, -40)	35		SAME	
1112	B80S6F1S	3--32		52	(0, 69)	15	41	(70, -1)	
1113	B80C0HRRH	3--33		154	(-70, 1)	2	15	(30, -79)	
1114	B80C0HRRD	3--34		86	(-80, 40)	98		SAME	
1115	B80C0HRRV	3--35		52	(-80, 40)	51		SAME	
1116	B80P71IRV	3--36		10	(80, -40)	14		SAME	
1117	B80P71IRD	3--37		28	(-30, 79)	11	14	(-70, 69)	
1118	B80P71IRH	3--38		63	(-80, 40)	68		SAME	
1119	B80P11FIRV	3--39		47	(20, 57)	12	30	(80, -40)	
1120	B80P11FIRD	3--40		32	(10, -74)	25	30	(50, -79)	
1121	B80P11FIRH	3--41		35	(80, -80)	31	34	(10, -74)	
1122	B80P12FFRV	3--42	YES	0	(0, 0)	0		SAME	
1123	B80P12FFRD	3--43		24	(0, 69)	19	19	(10, 64)	
1124	B80P12FFRH	3--44		23	(-60, -16)	12	12	(-70, 1)	
1125	B80S71IRH	3--45		72	(-80, 40)	71		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Φ MAXIMUM MEASURED STRAIN			Φ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Φ MOMENT (VERT., LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Φ MOMENT (VERT., LAT)	MEASURED STRAIN
1126	B805711RD	3-A-46	YES	0	( 0, 0)	0			
1127	B805711RV	3-A-47		267	( 0, 0)	0	49	(-70, 69)	18
1128	B80511F1RH	3-A-48		32	( 10, 64)	2	7	(-70, 69)	24
1129	B80511F1RD	3-A-49		53	(-60, -16)	50			
1130	B80511F1RV	3-A-50		37	(-30, -49)	31	34	( 0, -69)	33
1131	B80512FFRH	3-A-51		20	(-80, 40)	21	22	(-70, 69)	20
1132	B80512FFRD	3-A-52	YES	0	( 0, 0)	0	0	( 70, -69)	0
1133	B80512FFRV	3-A-53		22	(-30, -49)	21			
1134	H84 5521P(CU)	3-A-54		323	(-70, 69)	318			
1135	H101P20P(UC)	3-A-55		46	(-70, 69)	49			
1136	H100P20P(AC)	3-A-56		40	(-70, 69)	38			
1137	B98CDMMPI(C)	3-A-57		35	( 80, -40)	41			
1138	M101 3CDW(C)	3-A-58		106	(-80, 40)	98			
1139	M101 3CDW(C)	3-A-59		6	(-40, 80)	1	4	(-80, 40)	4
1140	B80CMP(D)	3-A-60		7	(-30, 79)	2	5	(-80, 40)	3
1141	M73P13P	3-A-1		316	(-80, 40)	308			
1142	M73P12W	3-A-2		310	(-70, 69)	317			
1143	M73P10 1P	3-A-3		270	(-70, 69)	271			
1144	M73P8W	3-A-4		274	(-70, 69)	267			
1145	M73P6W	3-A-5		253	(-70, 69)	256			
1146	M73P2W	3-A-6		304	(-80, 40)	308			
1147	M73C0W	3-A-7		318	(-80, 40)	318			
1148	M73S2W	3-A-8		287	(-80, 40)	289			
1149	M73S4W	3-A-9		330	(-70, 69)	320	322	(-60, -16)	328
1150	M73S6W	3-A-10		317	(-80, 40)	317			
1151	M73S8W	3-A-11		324	(-80, 40)	333			
1152	M73S9W	3-A-12		257	(-70, 69)	261	361	(-80, 40)	355
1153	M73S9 5P	3-A-13	YES	0	( 0, 0)	0			
1154	M73S10 1P	3-A-14		420	(-70, 69)	420			
1155	M73S11W	3-A-15		471	(-70, 69)	472			
1156	M73S11 5P	3-A-16		433	(-70, 69)	432			
1157	M73S12P	3-A-17		488	(-70, 69)	488			
1158	M73S12 5P	3-A-18		521	(-70, 69)	524			
1159	M73S13P	3-A-19		542	(-70, 69)	542			
1160	Z73C0W	3-A-20		463	(-80, 40)	470			
1161	Z73S2W	3-A-21		507	(-80, 40)	515			
1162	Z73S4W	3-A-22		461	(-80, 40)	470			
1163	Z73S6W	3-A-23		581	(-80, 40)	622			
1164	Z73S8W	3-A-24		662	(-80, 40)	683			
1165	Z73S9W	3-A-25		655	(-80, 40)	666			
1166	Z73S9 5P	3-A-26		684	(-80, 40)	687			
1167	Z73S10W	3-A-27		797	(-80, 40)	808			
1168	Z73S11P	3-A-28		744	(-80, 40)	793			
1169	Z73P6W	3-A-29		511	(-80, 40)	536			
1170	Z73P10W	3-A-30		485	(-80, 40)	496			
1171	W73S20 1P	3-A-31		440	(-70, 69)	438			
1172	W73S22 0W	3-A-32		345	(-70, 69)	359			
1173	W73S23 9P	3-A-33		719	(-80, 40)	722			
1174	H76S20P(CU)	3-A-34		318	(-70, 69)	316			
1175	H73S1W	3-A-35		416	( 80, -40)	416			
1176	H73S3W	3-A-36		379	( 80, -40)	371			
1177	H73P3W	3-A-37		466	( 80, -40)	467			
1178	H73S5W	3-A-38		319	( 80, -40)	312			
1179	H73S7W	3-A-39		295	( 70, -1)	294			
1180	H73P7W	3-A-40		331	( 70, -69)	342			
1181	H73S9W	3-A-41		259	( 70, -1)	259			
1182	H73S11W	3-A-42	YES	0	( 0, 0)	0			
1183	H73P11W	3-A-43		354	( 70, -69)	353			
1184	H73S12W	3-A-44		237	( 70, -1)	245			
1185	H73S13W	3-A-45		238	( 60, -16)	228			
1186	H73P13W	3-A-46		410	( 70, -69)	401			
1187	H73S14W	3-A-47		176	( 50, 30)	186			
1188	H73S15W	3-A-48		184	( 0, 69)	167	167	( 0, 69)	161
1189	H73P15W	3-A-49		260	( 60, -76)	258			
1190	H73S16 5P	3-A-50		228	(-80, 80)	224	226	(-80, 79)	222
1191	H73P16 5P	3-A-51		180	( 20, -77)	176	178	( 30, -79)	176
1192	H73S18W	3-A-52	YES	0	( 0, 0)	0	2	( 80, -40)	0
1193	H73S20W	3-A-53		469	(-70, 69)	467			
1194	H73P20W	3-A-54		274	(-60, -16)	273			
1195	H79 5518P(AC)	3-A-55		72	( 70, -69)	76			
1196	H83 120P(C)	3-A-56		94	(-80, 40)	102			
1197	B98S6MMP(C)	3-A-57		200	( 80, -40)	212			
1198	H17S17W(C)	3-A-58		65	(-70, 69)	63			
1199	RES1STDR	3-A-59		51	( 0, 69)	3	6	(-70, 1)	4
1200	H76S19(D)	3-A-60		201	( 10, 64)	2	2	(-40, 80)	82

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	@ MAXIMUM MEASURED STRAIN			@ MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	@ MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	@ MOMENT (VERT. LAT)	MEASURED STRAIN
1201	Z75COW	3-B-1		428	(-80, 40)	427		SAME	
1202	Z77COW	3-B-2		400	(-80, 40)	406		SAME	
1203	Z79COW	3-B-3		332	(-80, 40)	338		SAME	
1204	Z79 SCOW	3-B-4	YES	0	(0, 0)	0		SAME	
1205	Z83COW	3-B-5		282	(-80, 40)	296		SAME	
1206	Z85COW	3-B-6		187	(-80, 40)	194		SAME	
1207	M83PZH3 9P	3-B-7		238	(-70, 11)	240		SAME	
1208	Z83P6W	3-B-8		292	(-80, 40)	292		SAME	
1209	RESISTOR	3-B-9	YES	0	(0, 0)	0		SAME	
1210	Z8356W	3-B-10		297	(-80, 40)	299		SAME	
1211	Z79 556W	3-B-11		463	(-80, 40)	411		SAME	
1212	Z79 559 9P	3-B-12		490	(-80, 40)	489		SAME	
1213	M835M10 1P	3-B-13	YES	0	(0, 0)	0		SAME	
1214	M835M22 OW	3-B-14		219	(-70, 69)	204		SAME	
1215	M835ZM3 9P	3-B-15	YES	0	(0, 0)	0		SAME	
1216	M75COW	3-B-16		320	(-70, 69)	307		SAME	
1217	M75510 1P	3-B-17		417	(-70, 69)	423		SAME	
1218	M75513P	3-B-18		476	(-70, 69)	477		SAME	
1219	M77COW	3-B-19		333	(-80, 40)	329		SAME	
1220	M77510 1P	3-B-20		478	(-70, 69)	460		SAME	
1221	M77513P	3-B-21		408	(-70, 69)	402		SAME	
1222	B80P611W(C)	3-B-22		30	(0, 0)	0	28	(-80, 40)	
1223	M77P13P	3-B-23	YES	0	(0, 0)	0		SAME	
1224	M79COW	3-B-24		288	(-80, 40)	286		SAME	
1225	M79510 1P	3-B-25		327	(-70, 69)	324		SAME	
1226	M79513P	3-B-26		293	(-70, 69)	295		SAME	
1227	M85COW	3-B-27		226	(-80, 40)	228		SAME	
1228	M81510 1P	3-B-28		295	(-70, 69)	287		SAME	
1229	M81513P	3-B-29		310	(-70, 69)	316		SAME	
1230	M81P10 1P	3-B-30		162	(-60, -16)	159		SAME	
1231	M81P13P	3-B-31		225	(-70, 11)	224		SAME	
1232	M83COW	3-B-32	YES	0	(0, 0)	0		SAME	
1233	M83510 1P	3-B-33		291	(-70, 69)	292		SAME	
1234	M83513P	3-B-34		379	(-70, 69)	376		SAME	
1235	M81COW	3-B-35		279	(-80, 40)	278		SAME	
1236	M85510 1P	3-B-36		250	(-70, 69)	244		SAME	
1237	M85513P	3-B-37		241	(-70, 69)	227		SAME	
1238	M85P10 1P	3-B-38		227	(-70, 11)	229		SAME	
1239	M85P13P	3-B-39		144	(-60, -16)	146		SAME	
1240	F81 55(41NS 1B)	3-B-40		48	(-40, -80)	50	51	(-50, -79)	
1241	M8155 5P	3-B-41		312	(-80, 40)	314		SAME	
1242	M8355 5P	3-B-42	YES	0	(0, 0)	0		SAME	
1243	M83P10 1P	3-B-43		203	(-70, 11)	203		SAME	
1244	M83P13P	3-B-44	YES	0	(0, 0)	0		SAME	
1245	Z72COP	3-B-45		157	(-80, -40)	157		SAME	
1246	Z77COP	3-B-46		219	(-80, -40)	218		SAME	
1247	Z81COP	3-B-47		188	(-80, -40)	207	18	(-70, 40)	
1248	F81CONA	3-B-48		32	(-50, 79)	14		SAME	
1249	F85CONA	3-B-49		46	(-80, 40)	42		SAME	
1250	B80P8MRRH	3-B-50		17	(-60, -76)	18	18	(-50, -79)	
1251	B80P8MRRD	3-B-51		32	(-70, 11)	32		SAME	
1252	B80P8MRRY	3-B-52	YES	1	(0, 0)	0	0	(-60, 16)	
1253	B80P9MFRH	3-B-53		47	(-70, 11)	51		SAME	
1254	B80P9MFRD	3-B-54		50	(-80, -16)	50	54	(-70, 11)	
1255	B80P9MFRY	3-B-55		7	(-80, -40)	5		SAME	
1256	Z85COP	3-B-56		257	(-80, -40)	250		SAME	
1257	RESISTOR	3-B-57	YES	0	(0, 0)	0	1	(-80, -40)	
1258	RESISTOR	3-B-58		15	(0, 0)	0	3	(-70, -11)	
1259	RESISTOR	3-B-59		7637	(-10, -74)	96	153	(-60, -16)	
1260	M83P19(D)	3-B-60		10	(-30, 79)	4	4	(-60, 76)	
1261	B86C0ZZP	2- - 1		90	(-80, -40)	92		SAME	
1262	B86C0ZZS	2- - 2		329	(-80, 40)	327		SAME	
1263	B86P3ZZP	2- - 3		56	(-80, -40)	54		SAME	
1264	B86P3ZZS	2- - 4		209	(-80, 40)	211		SAME	
1265	B86P8ZZP	2- - 5		50	(-80, -40)	55		SAME	
1266	B86P8ZZS	2- - 6		144	(-80, 40)	148		SAME	
1267	B86COM2P	2- - 7		6	(-70, -11)	3		SAME	
1268	B86COM2S	2- - 8		65	(-70, 69)	57	64	(-80, 40)	
1269	B86P3M2P	2- - 9		32	(-40, 80)	6	14	(-80, 40)	
1270	B86P3M2S	2- - 10		7	(-60, 76)	7	7	(-70, 69)	
1271	B86P8M2P	2- - 11		9	(-10, 74)	7	7	(-10, 69)	
1272	B86P8M2S	2- - 12		29	(-70, 69)	26		SAME	
1273	B86COMFP	2- - 13		6	(-10, 74)	2	2	(-40, 80)	
1274	B86COMFS	2- - 14		150	(-80, 40)	152		SAME	
1275	B86P9MFP	2- - 15		29	(-80, 40)	29		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1276	B86P8MFS	2-A-16		59	(-70 69)	59			
1277	B86CDFIP	2-A-17		19	(-80 -40)	19			
1278	B86CDFIS	2-A-18		15	(-80 -40)	13			
1279	B86P6FIP	2-A-19		28	(-70 69)	30			
1280	B86P6FIS	2-A-20	YES	38	(-80 -40)	34	31	(-80 40)	24
1281	B86S4Z2P	2-A-21		26	(-80 -40)	28			
1282	B86S4Z2S	2-A-22		171	(-80 -40)	165			
1283	B86S8Z2P	2-A-23		60	(-80 -40)	62			
1284	B86S8Z2S	2-A-24	YES	150	(-80 -40)	150			
1285	B86S8M2P	2-A-25		8	(-30 79)	11			
1286	B86S8M2S	2-A-26		70	(-80 40)	74	5	(-80 -40)	0
1287	B86S8M2P	2-A-27		16	(-70 -69)	8			
1288	B86S8M2S	2-A-28		19	(-20 -57)	13			
1289	B86S2MFP	2-A-29		27	(-80 40)	31	14	(-50 -29)	15
1290	B86S2MFS	2-A-30		47	(-0 69)	6			
1291	B86S6FIP	2-A-31		20	(-60 -16)	13			
1292	B86S6FIS	2-A-32		38	(-80 40)	43			
1293	B86C0HHRH	2-A-33		13	(-70 -17)	10			
1294	B86C0HHRD	2-A-34		12	(-70 69)	12			
1295	B86C0HHRV	2-A-35		62	(-80 40)	57			
1296	B86P71IRV	2-A-36	YES	4	(-0 69)	1			
1297	B86P71IRD	2-A-37		27	(-20 77)	16			
1298	B86P71IRH	2-A-38		54	(-80 40)	49	19	(-20 57)	5
1299	B86P71IRV	2-A-39		28	(-60 76)	16	18	(-30 79)	16
1300	B86P72FRH	2-A-40	YES	0	(-0 0)	0			
1301	B86P72FRD	2-A-41		54	(-80 40)	51			
1302	B86P72FRV	2-A-42		29	(-30 79)	13	15	(-20 57)	3
1303	B86P72FRD	2-A-43		55	(-70 -17)	56			
1304	B86P72FRH	2-A-44		29	(-70 -17)	21	21	(-80 -40)	25
1305	B86S71IRH	2-A-45		106	(-80 40)	100			
1306	B86S71IRD	2-A-46		104	(-80 40)	96			
1307	B86S71IRV	2-A-47		23	(-10 -64)	16	19	(-50 -29)	17
1308	B86S71IRH	2-A-48		87	(-0 0)	0	63	(-80 40)	63
1309	B86S72FRD	2-A-49		32	(-80 40)	27			
1310	B86S72FRV	2-A-50		29	(-70 -69)	23			
1311	B86S72FRH	2-A-51		9	(-10 -74)	4	27	(-40 -80)	29
1312	B86S72FRD	2-A-52		58	(-80 40)	54			
1313	B86S72FRV	2-A-53		61	(-70 -69)	59	55	(-70 -69)	58
1314	H84 5521PICM1	2-A-54		285	(-70 69)	280			
1315	H84 5521PICL1	2-A-55		302	(-70 69)	298			
1316	RES15TOR	2-A-56		22	(-0 69)	2	2	(-60 -76)	-14
1317	RES15TOR	2-A-57		19	(-20 57)	1	1	(-30 79)	-10
1318	RES15TOR	2-A-58		11	(-0 0)	0	2	(-10 74)	-11
1319	RES15TOR	2-A-59		13	(-20 57)	2	2	(-30 49)	7
1320	A78P3M2ID1	2-A-60		18	(-0 0)	0	5	(-70 -69)	-8
1321	B92C0Z2P	2-A-1		141	(-70 -17)	132			
1322	B92C0Z2S	2-A-2		328	(-80 40)	333			
1323	B92P4Z2P	2-A-3		29	(-10 74)	9	34	(-70 -17)	7
1324	B92P4Z2S	2-A-4		188	(-80 40)	164			
1325	B92P8Z2P	2-A-5		84	(-0 69)	72			
1326	B92P8Z2S	2-A-6		23	(-40 -80)	11	97	(-80 -40)	66
1327	B92C0M2P	2-A-7		25	(-50 -79)	15	31	(-70 -17)	19
1328	B92C0M2S	2-A-8		16	(-40 40)	12	18	(-50 30)	13
1329	B92P4M2P	2-A-9		37	(-10 74)	19	15	(-60 76)	-12
1330	B92P4M2S	2-A-10		57	(-40 -80)	45	25	(-50 30)	16
1331	B92P8M2P	2-A-11		98	(-80 -80)	74	28	(-80 40)	-10
1332	B92P8M2S	2-A-12		102	(-50 79)	45	81	(-70 69)	70
1333	B92C0MFP	2-A-13		27	(-20 -57)	14	54	(-70 69)	52
1334	B92C0MFS	2-A-14		132	(-80 40)	135	15	(-70 69)	-24
1335	B92P8MFP	2-A-15		92	(-70 69)	88			
1336	B92P8MFS	2-A-16		117	(-80 40)	108			
1337	B92CDFIP	2-A-17		810	(-0 0)	0	37	(-40 -80)	-172
1338	B92CDFIS	2-A-18		70	(-70 -17)	8			
1339	B92P6FIP	2-A-19		50	(-70 69)	56			
1340	B92P6FIS	2-A-20	YES	37	(-70 -17)	32	58	(-80 40)	46
1341	B92S4Z2P	2-A-21		32	(-70 -69)	31	36	(-80 40)	37
1342	B92S4Z2S	2-A-22		151	(-50 79)	155	38	(-40 -80)	14
1343	B92S8Z2P	2-A-23		68	(-80 40)	85	191	(-80 40)	135
1344	B92S8Z2S	2-A-24	YES	55	(-0 0)	0			
1345	B92S8M2P	2-A-25		80	(-0 0)	0	92	(-80 40)	-25
1346	B92S8M2S	2-A-26		92	(-80 -79)	66	12	(-50 -79)	-14
1347	B92S8M2P	2-A-27		34	(-20 -57)	32	74	(-70 69)	88
1348	B92S8M2S	2-A-28		40	(-40 -40)	32	43	(-60 -16)	24
1349	B92S2MFP	2-A-29		21	(-80 -76)	1			
1350	B92S2MFS	2-A-30		25	(-50 -29)	18	50	(-80 40)	7
							1	(-40 -80)	17
							34	(-80 40)	16

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1351	B9256F1P	2-A-31		51	(-60, -16)	41	52	(-80, 40)	47
1352	B9256F1S	2-A-32		53	(-60, 76)	37	43	(-80, 40)	51
1353	B92P 2HRRH	2-A-33		51	(-70, 1)	41	60	(-70, 69)	29
1354	B92P 2HHRD	2-A-34		69	(-80, 40)	70		SAME	
1355	B92P 2HHRV	2-A-35		21	(-60, 76)	9	9	(-70, 69)	18
1356	B92P711RV	2-A-36	YES	3	(-20, 57)	0	1	(-70, 69)	-1
1357	B92P711RD	2-A-37		79	(-80, 40)	77		SAME	
1358	B92P711PH	2-A-38		73	(-80, 40)	79		SAME	
1359	B92P711RV	2-A-39		32	(-60, 76)	12	14	(-30, 79)	30
1360	B92P11F1RD	2-A-40	YES	0	(0, 0)	0	0	(-10, 64)	-2
1361	B92P11F1RH	2-A-41		62	(-80, 40)	55		SAME	
1362	B92P11F1RV	2-A-42		67	(-10, 64)	18	19	(-30, 69)	7
1363	B92P11F1RR	2-A-43		25	(-70, -1)	34		SAME	
1364	B92P11F1RH	2-A-44		37	(-60, 16)	16	28	(-10, 74)	21
1365	B925711RH	2-A-45		63	(-80, 40)	53		SAME	
1366	B925711RD	2-A-46		52	(-70, 69)	46		SAME	
1367	B925711RV	2-A-47		30	(-50, -29)	25	28	(-70, 1)	26
1368	B925711RH	2-A-48		7	(-80, 40)	44	48	(-70, 1)	67
1369	B92511F1RD	2-A-49		11	(-60, -76)	-7	7	(-40, 80)	3
1370	B92511F1RV	2-A-50		24	(0, 0)	0	10	(-80, 40)	-1
1371	B92511F1RH	2-A-51		42	(-70, -1)	11	50	(-50, -79)	32
1372	B92511F1RR	2-A-52		56	(-70, -69)	46		SAME	
1373	B92511F1RH	2-A-53		30	(-60, -76)	30	32	(-70, -69)	28
1374	K91511P1(BB)	2-A-54		161	(-70, -69)	168		SAME	
1375	M87 SP10S(PST)	2-A-55		170	(-70, 1)	176		SAME	
1376	RESISTOR	2-A-56		48	(0, 0)	0	9	(-70, -69)	7
1377	RESISTOR	2-A-57	YES	0	(0, 0)	0	191	(-80, 40)	0
1378	RESISTOR	2-A-58		31	(-20, -77)	-1	2	(-70, 1)	-16
1379	RESISTOR	2-A-59	YES	0	(0, 0)	0	8	(-80, -40)	0
1380	M79 SC101	2-A-60		17	(-20, 77)	-3	4	(-40, -40)	9
1381	M93 6PBW	2-B-1		219	(-80, 40)	213		SAME	
1382	M93 6PB SP	2-B-2		215	(-80, 40)	212		SAME	
1383	M93 6PBW	2-B-3		207	(-70, 1)	207		SAME	
1384	M93 6PB SP	2-B-4		158	(-80, 40)	159		SAME	
1385	M93 6P10W	2-B-5		219	(-80, 40)	208	211	(-70, 1)	217
1386	M93 6P11W	2-B-6		182	(-70, 1)	180		SAME	
1387	M92 6PBW	2-B-7		74	(-50, -29)	69	70	(-40, -40)	72
1388	M92 6PE SRH	2-B-8		122	(-70, -1)	121		SAME	
1389	M92 6PE SRD	2-B-9		112	(-50, -79)	109		SAME	
1390	M92 6PE SRL	2-B-10		294	(-80, 40)	288		SAME	
1391	M92 6PBW	2-B-11		258	(-80, 40)	255		SAME	
1392	M92 6PB SP	2-B-12		132	(-80, 40)	184		SAME	
1393	M92 6P10W	2-B-13		219	(-70, 1)	213		SAME	
1394	M92 6P11W	2-B-14		185	(-70, 1)	139		SAME	
1395	M92 6P12W	2-B-15		164	(-70, 1)	161		SAME	
1396	M92 2PBW	2-B-16		79	(0, -69)	69		SAME	
1397	H85 3P17P LP	2-B-17		111	(-40, -80)	107		SAME	
1398	M92 2PB SP	2-B-18		210	(-70, -69)	194		SAME	
1399	B92P7MMS1C	2-B-19		181	(-80, 40)	139		SAME	
1400	M92 3P95	2-B-20		206	(-70, 1)	224		SAME	
1401	M92 3P9 2RH	2-B-21		53	(0, 69)	34	41	(-50, 30)	33
1402	M92 3P9 2RD	2-B-22		131	(-70, -69)	123		SAME	
1403	M92 3P9 2PL	2-B-23		283	(-80, 40)	286		SAME	
1404	M92 3P9 SP	2-B-24	YES	365	(-80, 40)	370		SAME	
1405	M92 3P10S	2-B-25		217	(-70, 1)	208		SAME	
1406	M92 3P11S	2-B-26		155	(-70, 1)	152		SAME	
1407	M92 3P12S	2-B-27		183	(-70, 1)	182		SAME	
1408	M91 6PB5	2-B-28		295	(-80, 40)	313		SAME	
1409	M91 6PB 2P	2-B-29		165	(-70, 1)	168		SAME	
1410	M91 6PB 5P	2-B-30		183	(-70, 1)	190		SAME	
1411	M91 6PBW	2-B-31		188	(-70, 1)	142		SAME	
1412	M91 6PB SP	2-B-32		165	(-70, 1)	157		SAME	
1413	M91 6PB 7RL	2-B-33		166	(-70, 1)	150		SAME	
1414	M91 6PB 7RH	2-B-34		639	(0, 69)	58	398	(-80, -40)	251
1415	M91 6PB 7RD	2-B-35		44	(0, 69)	36	48	(-50, 30)	40
1416	M91 6P10W	2-B-36	YES	3	(0, 69)	0	1	(-80, -40)	-1
1417	M91 6P11W	2-B-37		215	(-70, 1)	214		SAME	
1418	M91 6P12W	2-B-38		188	(-70, 1)	187		SAME	
1419	H86 1P19P(HSU)	2-B-39		554	(-80, -40)	567		SAME	
1420	H86 1P19P(HSL)	2-B-40	YES	0	(0, 0)	0	0	(-80, -40)	0
1421	G445 1MMP(CUST)	2-B-41		47	(-30, -79)	15	16	(-50, -79)	31
1422	H71 1P19P(C)	2-B-42		363	(-70, -69)	379		SAME	
1423	H71 1P19P(C)	2-B-43		323	(-70, -69)	330		SAME	
1424	G64P8 5MFRV(BB)	2-B-44		28	(-10, -64)	19	33	(-70, 1)	26
1425	G64P8 5MFRD(BB)	2-B-45		159	(-80, 40)	160		SAME	



TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT, LAT)	MEASURED STRAIN
1426	B64PB SMFRH(BB)	2-B-46		98	(-80, 40)	100		SAME	
1427	M80S9S(SU)	2-B-47		127	(-60, 76)	125	126	(-70, 69)	125
1428	M80S9S(SL)	2-B-48		97	(-70, 69)	95	96	(-80, 40)	95
1429	M79 5S1BP(FC)	2-B-49		71	(-70, -69)	68		SAME	
1430	M79S20P(CUI)	2-B-50		263	(-70, 69)	262	262	(-80, 76)	263
1431	RESISTOR	2-B-51		32	(0, 0)	0	3	(0, 69)	26
1432	RESISTOR	2-B-52		0	(0, 0)	0	2	(-80, 40)	0
1433	RESISTOR	2-B-53	YES	0	(0, 0)	0	18	(-80, 40)	0
1434	RESISTOR	2-B-54	YES	0	(0, 0)	0	17	(80, -40)	0
1435	RESISTOR	2-B-55		38	(0, 0)	0	3	(20, 57)	28
1436	RESISTOR	2-B-56		38	(0, 0)	0	3	(-30, 79)	-15
1437	RESISTOR	2-B-57		23	(0, 0)	0	3	(10, 64)	11
1438	RESISTOR	2-B-58		19	(0, 0)	0	3	(-40, 80)	-8
1439	RESISTOR	2-B-59	YES	0	(0, 0)	0	11	(-80, 40)	0
1440	M89P19(D)	2-B-60		18	(0, 0)	0	2	(70, -69)	-8
1441	Z87COW	1--1		144	(-80, 40)	161		SAME	
1442	Z89COW	1--2		152	(-80, 40)	152		SAME	
1443	Z91COW	1--3		46	(-80, 40)	43		SAME	
1444	W91 9SMZO 1RL	1--4	YES	81	(-50, 79)	31	33	(-70, 69)	39
1445	W91 9SMZO 1RD	1--5		805	(-80, 40)	827		SAME	
1446	W91 9SMZO 1RY	1--6		78	(50, -79)	69	75	(70, -69)	57
1447	M87COW	1--7		251	(-80, 40)	258		SAME	
1448	M87S9 1P	1--8		77	(-80, 40)	254	255	(-70, 69)	263
1449	M87S12	1--9		235	(-70, 69)	234		SAME	
1450	M89COW	1--10	YES	0	(0, 0)	0		SAME	
1451	M89S9 1P	1--11		245	(-80, 40)	242	245	(-70, 69)	245
1452	M89S12	1--12	YES	0	(0, 0)	0		SAME	
1453	M89P9 1P	1--13		173	(-60, -16)	153	158	(-70, 1)	171
1454	M89P12	1--14	YES	0	(0, 0)	0		SAME	
1455	M91COW	1--15		299	(-80, 40)	149		SAME	
1456	M91S9 1P	1--16		254	(-80, 40)	236		SAME	
1457	M91S12	1--17		273	(-70, 69)	271		SAME	
1458	M93COW	1--18	YES	0	(0, 0)	0		SAME	
1459	M93S12	1--19		221	(-70, 69)	201		SAME	
1460	M93P12	1--20	YES	0	(0, 0)	0		SAME	
1461	M97COW	1--21		122	(-80, 40)	128		SAME	
1462	M97S12	1--22		73	(-50, 76)	73		SAME	
1463	M97P12	1--23		53	(-50, -29)	48	48	(-60, -16)	51
1464	M99COW	1--24		117	(-80, 40)	123		SAME	
1465	M99S12	1--25		61	(-70, 69)	63		SAME	
1466	M101COW	1--26		106	(-80, 40)	99		SAME	
1467	M101S12	1--27		104	(-80, 40)	107	108	(-70, 69)	104
1468	M101P12	1--28	YES	0	(0, 0)	0		SAME	
1469	M103COW	1--29		78	(-80, 40)	-2	3	(40, -80)	-38
1470	M103S12	1--30		115	(-70, 69)	106	107	(-80, 40)	99
1471	M105COW	1--31		113	(-80, 40)	103		SAME	
1472	M105S12	1--32		136	(-80, 40)	131		SAME	
1473	M105P12	1--33	YES	0	(0, 0)	0		SAME	
1474	M107S12	1--34		90	(-80, 40)	88		SAME	
1475	M107COW	1--35		167	(-80, 40)	166		SAME	
1476	F89CONA	1--36		7	(-30, -49)	2	4	(-70, 1)	3
1477	F89COP	1--37		143	(80, -40)	148		SAME	
1478	F93CONA	1--38		49	(80, -40)	52		SAME	
1479	F93COP	1--39	YES	0	(0, 0)	0		SAME	
1480	F97CONA	1--40		54	(80, -40)	52		SAME	
1481	F97COP	1--41		124	(80, -40)	122		SAME	
1482	F101CONA	1--42		146	(80, -40)	158		SAME	
1483	F101COP	1--43		55	(50, 30)	16	24	(80, -40)	37
1484	F105CONA	1--44		143	(70, -69)	137	149	(80, -40)	141
1485	F105COP	1--45		57	(-80, 40)	53		SAME	
1486	ASM279C120	1--46		551	(-80, 40)	553		SAME	
1487	ASM279C112(RES)	1--47		399	(-80, 40)	402		SAME	
1488	ASM287C315	1--48		1654	(-80, 40)	1438		SAME	
1489	ASM287C308	1--49		1578	(-80, 40)	1577		SAME	
1490	ASM287C300	1--50		1399	(-80, 40)	1401		SAME	
1491	ASM287C293	1--51		1208	(-80, 40)	1205		SAME	
1492	ASM287RVMF	1--52		321	(-80, 40)	315		SAME	
1493	ASM287RDMF	1--53		173	(60, 16)	157		SAME	
1494	ASM287RLMF	1--54		127	(80, -40)	125		SAME	
1495	B9257M2P(BM)	1--55		51	(20, -77)	30	37	(-30, -49)	47
1496	B9257M2S(BM)	1--56		97	(-70, 1)	130	144	(-80, 40)	84
1497	RESISTOR	1--57		5	(50, 30)	1	2	(80, -40)	3
1498	RESISTOR	1--58		7	(-30, 79)	4	7	(-80, 40)	5
1499	RESISTOR	1--59	YES	0	(0, 0)	0		SAME	
1500	M92P1(D)	1--60		14	(-40, 80)	-1	2	(70, -69)	-8

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	MAXIMUM MEASURED STRAIN			MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT. LAT)	MEASURED STRAIN
1501	B98C0HMS	1-A-1		407	(-80, 40)	394			
1502	B98C0HMP	1-A-2		174	(-80, -40)	192			
1503	B98P4MMP	1-A-3		22	(-60, 16)	30	35	(-80, -40)	
1504	B98P4HMS	1-A-4	YES	0	(0, 0)	0		SAME	
1505	B98P3MMP	1-A-5		129	(-80, 40)	123		SAME	
1506	B98P3HMS	1-A-6		93	(-40, -40)	74	119	(-80, 40)	
1507	B98C0MFP	1-A-7		48	(-10, 74)	14	39	(-70, -1)	
1508	B98C0MFS	1-A-8		51	(-10, 74)	9	59	(-80, 40)	
1509	B98P5MFP	1-A-9		30	(-50, -79)	4	22	(-70, -1)	
1510	B98P5MFS	1-A-10		68	(-20, 57)	47	81	(-70, -1)	
1511	B98P6FIP	1-A-11		29	(-10, 74)	23	34	(-70, 69)	
1512	B98C0FIS	1-A-12	YES	0	(0, 0)	0		SAME	
1513	B98C0FIP	1-A-13		25	(0, 69)	5	5	(-10, 64)	
1514	B98P6FIS	1-A-14		43	(-10, 69)	2	22	(-60, 40)	
1515	B98S4MMP	1-A-15		49	(-70, -69)	55	61	(-80, -40)	
1516	B98S4HMS	1-A-16		111	(-80, 40)	120		SAME	
1517	B98P8MMP	1-A-17		36	(-20, 57)	29	56	(-70, -1)	
1518	B98S4HMS	1-A-18		71	(-20, -57)	40	41	(-10, -64)	
1519	B98S3MFP	1-A-19		26	(-40, 80)	5	8	(-80, 40)	
1520	B98S4MFS	1-A-20		37	(0, 69)	5	24	(-80, -40)	
1521	B98S6FIP	1-A-21		22	(-20, 77)	5	11	(-80, 40)	
1522	B98S6FIS	1-A-22		33	(0, 69)	14	26	(-70, 69)	
1523	B98P 2MHRH	1-A-23		93	(-80, 40)	109		SAME	
1524	B98P 2MHRD	1-A-24		82	(-80, -40)	44		SAME	
1525	B98P 2MHRV	1-A-25		18	(-20, 57)	2	17	(-70, 69)	
1526	B98P71IRD	1-A-26		76	(-30, 79)	51	81	(-70, 69)	
1527	B98P71IRV	1-A-27		111	(-70, 1)	119	133	(-80, 40)	
1528	B98P71IRH	1-A-28		119	(-80, 40)	121		SAME	
1529	B98P11 SFIRV	1-A-29		78	(-60, -76)	53	66	(-80, -40)	
1530	B98P11 SFIRD	1-A-30		220	(-20, -40)	217		SAME	
1531	B98P11 SFIRH	1-A-31		174	(-80, 40)	183		SAME	
1532	B98P11 9FFRV	1-A-32		54	(-20, 77)	44	47	(-50, 79)	
1533	B98P11 9FFRD	1-A-33		209	(-80, -40)	196		SAME	
1534	B98P11 9FFRH	1-A-34		37	(-40, 40)	33	38	(0, 69)	
1535	B98S71IRH	1-A-35		92	(-40, -40)	40	76	(-80, 40)	
1536	B98S71IRD	1-A-36		74	(-50, 79)	59	66	(-70, 69)	
1537	B98S71IRV	1-A-37		36	(-10, -64)	23	24	(-30, -49)	
1538	B98S11 SFIRH	1-A-38		127	(-80, 40)	108	116	(-70, 1)	
1539	B98S11 SFIRD	1-A-39		167	(-70, -69)	92	115	(-80, -40)	
1540	B98S11 SFIRV	1-A-40	YES	0	(0, 0)	0	155	(-80, 40)	
1541	B98S11 9FFRH	1-A-41		75	(-30, -79)	88	92	(-50, 79)	
1542	B98S11 9FFRD	1-A-42		196	(-80, -40)	197		SAME	
1543	B98S11 9FFRV	1-A-43		29	(-30, -79)	29	34	(-60, -76)	
1544	B98S10MFS	1-A-44		132	(-30, -79)	143	173	(-70, -69)	
1545	B98S10MFP	1-A-45		89	(-10, 74)	47	55	(-30, -49)	
1546	H100P20PIEC	1-A-46		630	(-70, 69)	647		SAME	
1547	ASMM77C15F	1-A-47		779	(-80, 40)	780		SAME	
1548	ASMM77C25F	1-A-48		25	(0, 69)	14	20	(-60, -16)	
1549	ASMM77C35F	1-A-49		330	(-70, 69)	326		SAME	
1550	ASMM77C45F	1-A-50		207	(-70, 69)	295		SAME	
1551	ASMM77C55F	1-A-51		513	(-80, 40)	510		SAME	
1552	ASMM77C15A	1-A-52		410	(-70, 69)	425		SAME	
1553	ASMM77C25A	1-A-53		431	(-70, 69)	429		SAME	
1554	ASMM77C35A	1-A-54		210	(-60, -16)	55	60	(-70, 1)	
1555	ASMM77C45A	1-A-55		695	(-70, 69)	700		SAME	
1556	ASMM77C55A	1-A-56		835	(-60, 76)	836	436	(-70, 69)	
1557	ASMM77P35A0 S	1-A-57		784	(-80, 40)	788		SAME	
1558	ASMM77P35A1 S	1-A-58		540	(-80, 40)	539		SAME	
1559	ASMM77P35A3 O	1-A-59	YES	0	(0, 0)	0		SAME	
1560	H103519(D)	1-A-60		307	(-70, 69)	300		SAME	
1561	B108P9MFP	1-B-1		22	(-70, 69)	22		SAME	
1562	B108C0HMS	1-B-2		25	(-80, 40)	17	51	(-80, 40)	
1563	B108P4MMP	1-B-3		54	(-70, 69)	48		SAME	
1564	B108P4HMS	1-B-4	YES	0	(0, 0)	0		SAME	
1565	B108P8MMP	1-B-5		31	(-80, 40)	22		SAME	
1566	B108P8HMS	1-B-6		42	(0, 0)	0	34	(-80, 40)	
1567	RES:STDR	1-B-7		49	(-10, 64)	21	28	(-40, 80)	
1568	B108C0MFS	1-B-8		35	(-60, 76)	30	35	(-80, 40)	
1569	B108P4MFP	1-B-9		53	(-80, 40)	52	52	(-70, 69)	
1570	B108P4MFS	1-B-10		50	(-80, -40)	59	3	(-30, 79)	
1571	RES:STDR	1-B-11		38	(0, 0)	0		SAME	
1572	B108C0FIS	1-B-12	YES	0	(0, 0)	0		SAME	
1573	B108P6FIP	1-B-13		29	(-60, 76)	27	28	(-70, 69)	
1574	B108P6FIS	1-B-14		6	(-60, 76)	6		SAME	
1575	B108S4MMP	1-B-15		54	(-80, 40)	54		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT. LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT. LAT)	MEASURED STRAIN
1576	B10854MMS	1-B-16		52	[ 70, 69]	41	44	[ -80, 40]	50
1577	B10858MMP	1-B-17		34	[ -80, 40]	32		SAME	
1578	B10858MMS	1-B-18		21	[ -80, 40]	22		SAME	
1579	B10854MFP	1-B-19		62	[ -80, 40]	46		SAME	
1580	B10854MFS	1-B-20		64	[ 80, -40]	67		SAME	
1581	B10856F1P	1-B-21		19	[ -70, 11]	21	23	[ -80, 40]	19
1582	B10856F1S	1-B-22		13	[ 0, 69]	8	16	[ 70, 11]	4
1583	B108P 2NHRH	1-B-23		424	[ -80, 40]	415		SAME	
1584	B108P 2NHRH	1-B-24		500	[ -80, 40]	471		SAME	
1585	B108P 2NHRV	1-B-25	YES	0	[ 0, 0]	0		SAME	
1586	B108P711RV	1-B-26		41	[ 80, -40]	51		SAME	
1587	B108P711RD	1-B-27		43	[ 50, -75]	33		SAME	
1588	B108P711RH	1-B-28		242	[ -80, 40]	241		SAME	
1589	B108P10 SF1RV	1-B-29		124	[ 80, -40]	120		SAME	
1590	B108P10 SF1RD	1-B-30		268	[ 80, -40]	282		SAME	
1591	B108P10 SF1RH	1-B-31		65	[ -70, 11]	58	62	[ -80, 40]	65
1592	B108P10 SF1RV	1-B-32		32	[ 10, 64]	14	34	[ -80, 76]	30
1593	B108P10 SF1RD	1-B-33		206	[ 80, -40]	206		SAME	
1594	B108P10 SF1RH	1-B-34		27	[ 70, -69]	22		SAME	
1595	B1085711RH	1-B-35		190	[ -80, 40]	191		SAME	
1596	B1085711RD	1-B-36		375	[ 30, 49]	19	23	[ 60, 16]	361
1597	B1085711RV	1-B-37		38	[ 70, 11]	37	43	[ 80, -40]	38
1598	B108570 SF1RH	1-B-38		151	[ -80, 40]	159		SAME	
1599	B108510 SF1RD	1-B-39		140	[ 70, 11]	140		SAME	
1600	B108510 SF1RV	1-B-40		279	[ 70, -69]	224	245	[ 80, -40]	162
1601	B108510 SF1RH	1-B-41		63	[ 30, 79]	67		SAME	
1602	B108510 SF1RD	1-B-42		184	[ 60, -76]	181		SAME	
1603	B108510 SF1RV	1-B-43		100	[ 50, -75]	101		SAME	
1604	B108P9MFS	1-B-44		60	[ -80, 40]	59		SAME	
1605	APMM7701PA	1-B-45		366	[ -40, -40]	358	359	[ -30, -49]	362
1606	APMM7702PA	1-B-46		427	[ -50, -29]	422	422	[ -40, -40]	425
1607	APMM7702PF	1-B-47		740	[ -50, -29]	381		SAME	
1608	APMM7704PA	1-B-48		781	[ -80, 40]	770		SAME	
1609	APMM7705PA	1-B-49		221	[ -60, -16]	204		SAME	
1610	APMM7703PAO 5	1-B-50		261	[ -60, -16]	255		SAME	
1611	APMM7703PAI 5	1-B-51		232	[ -60, -16]	222		SAME	
1612	APMM7703PAO 0	1-B-52		218	[ -70, 11]	218		SAME	
1613	APMM7702PF	1-B-53		414	[ -80, 40]	413		SAME	
1614	APMM7702PF	1-B-54		441	[ -80, 40]	437		SAME	
1615	APMM7703PF	1-B-55		663	[ -80, 40]	671		SAME	
1616	APMM7704PF	1-B-56		263	[ -60, -16]	263		SAME	
1617	APMM7705PF	1-B-57		814	[ -80, 40]	823		SAME	
1618	APM790135	1-B-58		714	[ -80, 40]	714		SAME	
1619	ASM790127	1-B-59	YES	0	[ 0, 0]	0		SAME	
1620	H108P71101	1-B-60		14	[ -20, 77]	1	1	[ -50, 79]	8
1621	H95P10W	0- 1		110	[ -70, 11]	104		SAME	
1622	H95P7W	0- 2		201	[ -80, 40]	192		SAME	
1623	H95P7W	0- 3		143	[ -80, 40]	139		SAME	
1624	H9510W	0- 4	YES	0	[ 0, 0]	0		SAME	
1625	H9557W	0- 5		154	[ -80, 40]	148		SAME	
1626	H9554W	0- 6		144	[ -80, 40]	135		SAME	
1627	H9556W	0- 7		193	[ -70, 69]	173	184	[ -80, 40]	189
1628	H9558W	0- 8		235	[ -80, 40]	227		SAME	
1629	H95510W	0- 9		30	[ -20, 77]	19	19	[ -70, 74]	28
1630	H95510 SP	0- 10		56	[ -60, 76]	47	48	[ -70, 69]	54
1631	H95511W	0- 11		45	[ 0, 69]	24	33	[ -50, 79]	39
1632	H95511 SP	0- 12		54	[ -70, 69]	66		SAME	
1633	H95512W	0- 13		56	[ -40, 80]	43	46	[ -60, 76]	52
1634	H97P9 SP [BE]	0- 14		71	[ 0, 69]	5	12	[ 70, 11]	4
1635	H9551W	0- 15		116	[ 80, -40]	132		SAME	
1636	H9554W	0- 16		106	[ 80, -40]	121		SAME	
1637	H9554W	0- 17		113	[ 80, -40]	125		SAME	
1638	H9555W	0- 18		90	[ 80, -40]	101		SAME	
1639	H9557W	0- 19		94	[ 80, -40]	101		SAME	
1640	H95P7W	0- 20		114	[ 80, -40]	123		SAME	
1641	H9559W	0- 21		67	[ 70, 11]	72		SAME	
1642	H95511W	0- 22	YES	0	[ 0, 0]	0		SAME	
1643	H95511W	0- 23		85	[ 70, -69]	89		SAME	
1644	H95512W	0- 24		51	[ 70, 11]	59		SAME	
1645	H95513W	0- 25		50	[ 70, 11]	54	54	[ 60, 16]	48
1646	H95P13W	0- 26	YES	0	[ 0, 0]	0		SAME	
1647	H95515W	0- 27		55	[ -30, 79]	42		SAME	
1648	H95516 SP	0- 28		93	[ -80, 76]	80	81	[ -70, 69]	91
1649	H95P16 SP	0- 29		45	[ -70, -64]	43		SAME	
1650	H95517W	0- 30		89	[ -70, 69]	81		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	Ø MAXIMUM MEASURED STRAIN			Ø MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	Ø MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	Ø MOMENT (VERT, LAT)	MEASURED STRAIN
1651	H95S17W	0 - 31		126	(-70, 69)	122		SAME	
1652	H95S19A	0 - 32		86	(-70, 11)	87		SAME	
1653	H80S95(BMSU)	0 - 33		158	(-80, 40)	138		SAME	
1654	B92SM7(BMSL)	0 - 34		412	(-80, 40)	438		SAME	
1655	H49CDP	0 - 35	YES	0	(0, 0)	0		SAME	
1656	H61CDP	0 - 36	YES	0	(0, 0)	0		SAME	
1657	H73CDP	0 - 37	YES	0	(0, 0)	0		SAME	
1658	H75CDP	0 - 38		468	(-80, -40)	460		SAME	
1659	H77CDP	0 - 39	YES	0	(0, 0)	0		SAME	
1660	H79CDP	0 - 40		404	(-80, -40)	407		SAME	
1661	H81CDP	0 - 41		364	(-80, -40)	368		SAME	
1662	H83CDP	0 - 42	YES	0	(0, 0)	0		SAME	
1663	H85CDP	0 - 43		351	(-80, -40)	325		SAME	
1664	H87CDP	0 - 44		250	(-80, -40)	268		SAME	
1665	H91CDP	0 - 45		206	(-80, -40)	200		SAME	
1666	H93CDP	0 - 46		259	(-70, -69)	167	167	(-80, -40)	
1667	H95CDP	0 - 47		347	(-80, -40)	504		SAME	
1668	H97CDP	0 - 48	YES	0	(0, 0)	0		SAME	
1669	H99CDP	0 - 49		37	(-80, -40)	39		SAME	
1670	H101CDP	0 - 50		39	(-80, -40)	1	51	(-80, -40)	
1671	H103CDP	0 - 51	YES	0	(0, 0)	0		SAME	
1672	H105CDP	0 - 52		39	(-80, -40)	43		SAME	
1673	H107CDP	0 - 53		21	(-80, -40)	20		SAME	
1674	H89CDP	0 - 54	YES	0	(0, 0)	0		SAME	
1675	H85FFIC	0 - 55		172	(-40, 80)	162		SAME	
1676	B80PMRH	0 - 56		14	(0, 0)	0	12	(-70, -69)	
1677	B80PMRD	0 - 57		55	(-80, 69)	40	45	(-40, 40)	
1678	B80PMRV	0 - 58	YES	225	(-80, 40)	228		SAME	
1679	B80P18(FIC)	0 - 59		170	(-40, -40)	167		SAME	
1680	H96S19(D)	0 - 60	YES	45	(0, 0)	0	3	(-70, 11)	
1681	B92P7MMS	0-A-1		273	(-80, 40)	222		SAME	
1682	B92P7MMP	0-A-2		96	(-60, 76)	103	109	(-70, 69)	
1683	B92S8MMS	0-A-3		263	(-70, 11)	239	241	(-60, 40)	
1684	B92S8MMP	0-A-4	YES	0	(0, 0)	0		SAME	
1685	B86CMMP	0-A-5		131	(-80, 40)	128		SAME	
1686	B86CMMS	0-A-6		132	(-80, -40)	134		SAME	
1687	B86P7MMP	0-A-7		102	(-80, 40)	101		SAME	
1688	B86P7MMS	0-A-8		72	(-80, -40)	77		SAME	
1689	B80P1MMS	0-A-9		56	(-80, 40)	50	50	(-70, 69)	
1690	B80P1MMP	0-A-10		21	(-80, 69)	9	10	(-30, 49)	
1691	F82P1M	0-A-11		57	(-40, -40)	54	57	(-60, -16)	
1692	H80P17(LF)	0-A-12		67	(-20, -57)	65	66	(-30, 49)	
1693	B86P20(C)	0-A-13		25	(-80, 69)	21	21	(-10, 74)	
1694	B86P11MRRH	0-A-14		23	(-80, 69)	12	14	(-40, 40)	
1695	B86P11MRRD	0-A-15		34	(-80, 69)	23	25	(-40, 40)	
1696	B86P11MRRV	0-A-16		28	(-60, 76)	17	18	(-40, 80)	
1697	B86P11MP(HSU)	0-A-17		94	(-80, 69)	21	23	(-30, 49)	
1698	B86P11MP(HSL)	0-A-18		39	(-60, 76)	28	29	(-70, 69)	
1699	F86P11PIC	0-A-19		31	(-70, 11)	19		SAME	
1700	B80P11P(BB)	0-A-20		60	(-80, -40)	64		SAME	
1701	H80P15(D)4P(LF)	0-A-21		245	(-60, -76)	248		SAME	
1702	B86P9W(C)	0-A-22	YES	0	(0, 0)	0	4	(-70, 11)	
1703	B86P8 5P(BB)	0-A-23		12	(-80, 69)	0		SAME	
1704	B80P2P(C)	0-A-24		54	(-70, 69)	48		SAME	
1705	B86S7MMPIC	0-A-25		14	(-80, 69)	11		SAME	
1706	H85 9S19P(C)	0-A-26	YES	0	(0, 0)	0	28	(-70, 69)	
1707	B80S9 5MFRH	0-A-27		40	(-80, 69)	13		SAME	
1708	B80S9 5MFRD	0-A-28		26	(-60, 76)	26	30	(-70, 69)	
1709	B80S9 5MFRV	0-A-29		40	(-80, -40)	46		SAME	
1710	B92SM7(BMSU)	0-A-30		50	(-60, 16)	50		SAME	
1711	H80S9S(SL)	0-A-31	YES	0	(0, 0)	0		SAME	
1712	H85 9S6 SP(HSU)	0-A-32		162	(-60, 76)	158		SAME	
1713	H85 9S6 SP(HSL)	0-A-33		336	(-80, -40)	329		SAME	
1714	H86S3S(SU)	0-A-34	YES	0	(0, 0)	0	88	(-80, 40)	
1715	H86S3S(SL)	0-A-35		92	(-80, 69)	0	120	(-60, 76)	
1716	H86 1S3 SP(HSL)	0-A-36		128	(-70, 69)	118		SAME	
1717	H86 1S3 SP(HSD)	0-A-37		134	(-70, 11)	130		SAME	
1718	B86S11 9MRRH	0-A-38		27	(-70, 69)	24	24	(-80, -40)	
1719	B86S11 9MRRD	0-A-39		117	(-80, -40)	99		SAME	
1720	B86S11 9MRRV	0-A-40		48	(-80, -40)	59		SAME	
1721	H86 1S17 SP(HSU)	0-A-41		534	(-80, -40)	538		SAME	
1722	H86 1S17 SP(HSL)	0-A-42		634	(-80, 40)	628		SAME	
1723	H86 1S6 SP(HSU)	0-A-43		308	(-80, -40)	314		SAME	
1724	H86 1S6 SP(HSL)	0-A-44		290	(-70, 69)	244		SAME	
1725	H86 5S19PICU	0-A-45		216	(-70, 69)	209		SAME	

TABLE B.6 (Continued)

GAGE NUMBER	GAGE NAME	GAGE POSITION	ASSUMED CAL	P MAXIMUM MEASURED STRAIN			P MAXIMUM PREDICTED STRAIN		
				MEASURED MAXIMUM	P MOMENT (VERT, LAT)	PREDICTED STRAIN	PREDICTED MAXIMUM	P MOMENT (VERT, LAT)	MEASURED STRAIN
1724	H88 5S19P(CL)	0-A-46		167	(-70, 69)	161		SAME	
1727	H86 1S6S(U)	0-A-47		234	(-80, 40)	215		SAME	
1728	H86 1S6S(L)	0-A-48		243	(-80, 40)	269		SAME	
1729	H86 1P8 5P(HSU)	0-A-49		230	(-80, -40)	237		SAME	
1730	H86 1P8 5P(HSL)	0-A-50		159	(-60, -16)	151	152	(-70, 1)	159
1731	B9257M2S(BM)	0-A-51		89	(-70, 1)	103	104	(-80, 40)	66
1732	B9257M2P(BM)	0-A-52		18	(-0, -69)	8	13	(-60, -76)	12
1733	B8653MMP(BM)	0-A-53		59	(-80, 40)	59		SAME	
1734	B8653MMS(BM)	0-A-54		105	(-80, -40)	78		SAME	
1735	B8653M2P(BM)	0-A-55		8	(-50, 79)	2	2	(-0, 69)	-10
1736	B8653M2S(BM)	0-A-56		63	(-80, 40)	62		SAME	
1737	B8059MMS(BM)	0-A-57		33	(-70, 1)	27		SAME	
1738	B8059MMP(BM)	0-A-58	YES	108	(-50, 30)	90	107	(-70, -1)	108
1739	B8059M2S(BM)	0-A-59		73	(-70, -69)	56	61	(-80, -40)	53
1740	H89P2M2(D)	0-A-60		44	(-70, -1)	41	48	(-80, -40)	31
1741	H78520P(CU)	0-B-1		303	(-70, 69)	301		SAME	
1742	H79520P(CL)	0-B-2		298	(-70, 69)	299		SAME	
1743	B8051MMP(C)	0-B-3		49	(-70, 69)	37	40	(-80, 40)	47
1744	H8051P(C)	0-B-4	YES	0	(-0, 0)	0		SAME	
1745	H79 5S20P(FC)	0-B-5		117	(-70, -1)	106		SAME	
1746	H79 5S20P(AC)	0-B-6		62	(-60, -16)	56		SAME	
1747	H79 5S20P(ACL)	0-B-7		51	(-60, -16)	44	47	(-40, -40)	47
1748	B64CDMP(C)	0-B-8		35	(-0, 0)	0	16	(-70, 1)	9
1749	B5658 5MFRD(BB)	0-B-9		26	(-0, 0)	0	15	(-70, -69)	-12
1750	B5658 5MFRD(BB)	0-B-10		45	(-70, 69)	40	40	(-80, 40)	35
1751	B5658 5MFRM (BB)	0-B-11		31	(-50, -79)	16	16	(-30, -75)	31
1752	B56P8 5MFRV(BB)	0-B-12		56	(-20, -77)	42	47	(-50, -79)	45
1753	B56P8 5MFRD(BB)	0-B-13		57	(-0, -69)	40	43	(-30, -49)	41
1754	B56P8 5MFRM(BB)	0-B-14		31	(-20, -77)	19	22	(-20, -57)	28
1755	M64P8S(SUA)	0-B-15		101	(-30, -79)	80	110	(-70, -69)	57
1756	M64P8S(SLA)	0-B-16		40	(-70, 1)	47		SAME	
1757	M64P8S(SUF)	0-B-17		33	(-10, -74)	19	20	(-10, -64)	31
1758	M64P8S(SLF)	0-B-18	YES	144	(-80, 40)	114		SAME	
1759	B64P11P(CU)	0-B-19		36	(-50, 30)	24	31	(-80, -40)	28
1760	B64P11P(CL)	0-B-20		101	(-80, -40)	109		SAME	
1761	H61 2S20P(CM)	0-B-21		543	(-70, 69)	542		SAME	
1762	H61 2S20P(CL)	0-B-22	YES	0	(-0, 0)	0		SAME	
1763	H60P9 5P(C)	0-B-23		255	(-60, -16)	245	247	(-70, 1)	255
1764	H58 6P20P(C)	0-B-24		250	(-20, -57)	248	249	(-30, -49)	250
1765	H61 3P20P(C)	0-B-25		234	(-30, -49)	237		SAME	
1766	H58 6P20P(CU)	0-B-26	YES	0	(-0, 0)	0		SAME	
1767	H58 6P20P(CL)	0-B-27		240	(-30, -49)	238		SAME	
1768	H59 5P6P(C)	0-B-28		33	(-80, 40)	27		SAME	
1769	B8059M2P(BM)	0-B-29		21	(-70, -69)	21	22	(-80, -40)	19
1770	B64P8MMP(BM)	0-B-30		78	(-0, -69)	28	35	(-50, -79)	64
1771	H7455P(C)	0-B-31		340	(-80, 40)	331		SAME	
1772	H7355P(C)	0-B-32		347	(-80, 40)	350		SAME	
1773	H6755P(C)	0-B-33		456	(-80, 40)	459		SAME	
1774	H67P5P(UC)	0-B-34		283	(-80, 40)	280	280	(-70, 1)	281
1775	H67 2P5P(UC)	0-B-35		307	(-80, 40)	302		SAME	
1776	H69P5P(LP)	0-B-36		48	(-70, -1)	40	42	(-50, 30)	42
1777	H60P6P(C)	0-B-37		316	(-70, 1)	314		SAME	
1778	H94520P(FC)	0-B-38		19	(-60, -16)	8	16	(-20, -77)	11
1779	H77P10 1P	0-B-39		351	(-70, 1)	349		SAME	
1780	H94520P(AC)	0-B-40		39	(-70, -69)	44		SAME	
1781	H94516 5P(CU)	0-B-41		12	(-30, -49)	2	6	(-60, -76)	0
1782	H94516 5P(CL)	0-B-42		30	(-50, -29)	23	24	(-70, 1)	30
1783	H91P19P(C)	0-B-43		35	(-70, 69)	18	20	(-50, 79)	35
1784	H7958 5P	0-B-44		280	(-70, 69)	265		SAME	
1785	B86P91P	0-B-45		65	(-80, 40)	66		SAME	
1786	H91P19P(AC)	0-B-46		34	(-0, 69)	26	37	(-80, 16)	33
1787	H91P19P(FC)	0-B-47		31	(-60, -76)	26	26	(-50, -79)	29
1788	H97 9P14P(LF)	0-B-48		42	(-20, -77)	21	27	(-30, 49)	21
1789	H101P20P(AC)	0-B-49		63	(-80, 40)	63		SAME	
1790	H80P19P18(FC)	0-B-50		188	(-50, -29)	182		SAME	
1791	H79 5P18P(CU)	0-B-51		152	(-20, -77)	152		SAME	
1792	H79 5P18P(CL)	0-B-52		150	(-20, -77)	152	152	(-10, -74)	150
1793	H63 9P13S(C)	0-B-53		265	(-80, 40)	274		SAME	
1794	H79 9P15P(C)	0-B-54		169	(-40, -80)	171	172	(-50, -79)	167
1795	B64P12 9P(LP)	0-B-55		120	(-60, -16)	81	84	(-50, -29)	114
1796	B64P12 9P(SC)	0-B-56		50	(-80, -40)	50		SAME	
1797	H65P22P(C)	0-B-57		53	(-10, 64)	31	47	(-70, -1)	37
1798	B84P 1MMP(C)	0-B-58	YES	95	(-80, 40)	94		SAME	
1799	B84S 1MMP(C)	0-B-59		32	(-10, -74)	19	19	(-20, -77)	30
1800	B106P1MMP(D)	0-B-60	YES	16	(-50, 79)	-2	3	(-20, -77)	0

APPENDIX C  
STRAIN DATA PLOTS

The following is a discussion of the plots of strain data for several specific structural sections of the model. Appropriate strain data from rigid vinyl model tests, the finite element analysis, and beam bending theory are included for comparative purposes.

There are five basic categories of strain data plots. These are:

1. Longitudinal distributions of longitudinal bending strain.
2. Transverse distributions of longitudinal bending strain.
3. In-plane stress concentrations and misalignment strain in the bulkheads.
4. Stress concentrations due to openings in the Main Deck and O1 Deck.
5. Stress concentrations in the superstructure hull due to openings and discontinuities.

LONGITUDINAL DISTRIBUTION OF LONGITUDINAL BENDING STRAINS

Probably the most dramatic and revealing and yet well-behaved strain-data plots are those of longitudinal distributions of longitudinal bending strains. Where applicable, the plots include finite element data and rigid vinyl model data.\*

Figure C.1 shows small magnitudes of strain along the centerline of the O2 Deck. Since these gages are at the centerline (on the web of the centerline stiffener), lateral loading has little effect on the strains. Included on this plot are strains at gage locations off the centerline. A quick look shows considerably higher strains further off the centerline (outboard) and, as will be shown later, plots of transverse distributions indicate this same phenomena. These low centerline strains are probably due to the relatively short length of the O2 Deck even though it is near midships. Shear in the deckhouse sidewalls caused the strain values in the O2 Deck to increase nearer the house wall.

In general, the strains measured by the gages on the webs of the O1 Deck centerline stiffeners are well behaved and the magnitudes are predictable. Midship strains at 80% maximum BM are nominally 500 $\mu$ in./in. as shown in Figure C.2. However, the

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\*Rodd, James L. et al., "Rigid Vinyl Model Development of Structural Modification for the Aluminum Ship Evaluation Model (ASEM)," reported informally as Enclosure (1) to DTNSRDC ltr 80-173-158 (17 Oct 1980).

gage at Frame 61 indicates a value about 25% higher than would be expected. At first glance, this data point might be neglected; however, upon looking at other gages in this area (as in Figure C.3) strains are indeed higher than would be expected. Strain readings from Tests 1, 3, and 4 were of similar magnitude, since lateral moments of Tests 3 and 4 have little effect on centerline gage strain readings.

The Main Deck centerline gages, which are located on the web and near the neutral axis of the centerline stiffener, indicate strains of near  $300\mu\text{in./in.}$  near midships at 80% maximum BM (see Figure C.4). A slight increase in strain reading over what might be expected in the vicinity of Bulkhead 32 was noted. Also, the strains increased aft of Frame 103 rather than approach zero as would be anticipated. This may be related to a shift in the neutral axis location of the model due to the effect of longitudinal bulkheads in the aft end of the model. This is even more evident in the plot of the platform deck strains at the centerline.

The longitudinal strain distributions due to longitudinal bending stresses near the gunwales and under the deckhouse side wall are not as well behaved as might be expected. Figures C.5 through C.8 show strain data plots at the following locations: (1) at the port gunwale, (2) along the length of the port deckhouse side wall, (3) at the starboard gunwale, and (4) along the length of the starboard deckhouse side wall, respectively. The gages along the deckhouse side wall are located 1 in. outboard of the wall, and on the underside of the main deck (a longitudinal girder is located directly beneath the wall.) The gunwale gages are on a 2-in. wide, 1/4-in. thick doubler that is welded to the deck and side shell. The 2-in. length dimension of the doubler is vertical relative to the main deck.

The longitudinal distributions of longitudinal bending strain data at the platform deck centerline is shown in Figure C.9. The platform deck is near the neutral axis of the model and, subsequently, the strain readings at 80% maximum BM are nominally less than  $50\mu\text{in./in.}$  An increase in strain aft of Frame 80 is evident and is due to a shift in the neutral axis of the model. With the addition of longitudinal bulkheads, the neutral axis shifted below the platform deck level thus causing strains to increase as high as  $150\mu\text{in./in.}$

The inner bottom strain values for the longitudinal distribution at 80% maximum BM is shown in Figure C.10. The actual strains along the length are erratic relative to a smooth curve drawn through the data. This may be due in part to lower strains for gages located above transverse bulkheads (floors). Also, the portion of the inner bottom between Frame 69 1/3 and 74 2/3 was reinforced with syntactic foam, thereby partially explaining the very low strain reading at Frame 73. Near midships the maximum strain values during the static tests were about 300  $\mu\text{in./in.}$

Probably the most well behaved data of the longitudinal distributions are at the keel centerline. The gages were placed on the exterior of the flat bar keel and protected with a waterproof coating. At 80% maximum BM, strains near Bulkhead 32 are slightly higher than expected. At midships, the strain value appears to peak slightly above 600  $\mu\text{in./in.}$  (see Figure C.11).

#### TRANSVERSE DISTRIBUTION OF LONGITUDINAL BENDING STRAINS

Five locations along the length of the model were chosen to show transverse distributions of longitudinal bending strains (these are often called "belts" throughout this report). The belts were at Frames 21, 45, 61, 73, and 95. If the model were longitudinally sectioned into eights, Frame 21 would be about 1/8 the model length from Bulkhead 8. Frame 45 is about 3/8 the model length from Bulkhead 8; Frame 61 about 1/2 or near midships; Frame 73 about 5/8 and Frame 95 about 7/8 the model length. The sections at Frames 21 and 95 include only the main deck and hull. The section at Frame 45 includes the hull and both the 02 and 01 levels of the deckhouse. The sections at Frames 61 and 73 include the hull and 01 deck level (the 02 deck terminates at Bulkhead 56).

In general, for the instances of 80% maximum BM, the magnitude of strains for the 60° lag case and the 240° lag case increased near the edge of a deckhouse external deck. In most instances, the 60° lag condition created higher relative strains on the port side than did the 240° lag condition. Alternately, the 240° lag condition created higher relative strains on the starboard side. This was due to the relative phase shift in the vertical and lateral load components.

#### Belt 21

The strain distribution across the main deck noticeably dropped off near the starboard gunwale (see Figure C.12). Because of the lack of data for the port side,



a similar comparison could not be made for that side. However, upon examining the longitudinal distributions for the port and starboard gunwales, the order of strain magnitudes of gages in these two areas support this drop in strain. The strain distribution in the hull is linear except near the platform deck. The drop off in strain may be due to the V-shape of the hull at this section of the model. Since the neutral axis has probably shifted up, the stresses at the deck are less than at the keel. Also, there is a substantial decrease in the section near the gunwale. This phenomenon does not occur further aft where the model sections are more box-like.

#### Belt 49

The section of the model at Frame 49 includes both the 01 and 02 decks. As seen in Figure C.13, there is a noticeable drop in strain as the center of the 02 deck is approached. This is due to the short deck length and the shear in the deckhouse wall. The strain distributions at the main deck and 01 deck are linear and averaged about 350  $\mu$ in./in. and 450  $\mu$ in./in. respectively. Of special interest is the strain distribution from the keel to the 02 deck. It is relatively linear from the keel to the main deck, with the lowest strain readings monitored at the platform deck level. It is obvious that the deckhouse is partially effective in picking up a portion of the load in the hull. Of questionable validity is the data point midway between the 01 deck and main deck. The drop in strain may be due to the effect of the access hatch opening immediately aft of the gage. The aftmost edge of the hatch coaming was located 21 in. forward of the gage. Also, Bulkhead 48 is located between the access hatch opening and gage.

#### Belt 61

The section at Frame 61 has the 01 deck as the uppermost deck, since the 02 deck terminates 50 in. forward of Frame 61 at Bulkhead 56. Both the 60° and 240° lag data at the 01 deck show similar characteristics (see Figure C.14). As the starboard or port edges of the 01 deck are approached, the strain increases significantly and strain data from gages located on the deeper girders (centerline, sixth port and starboard stiffeners outboard) were noticeably higher than for the remaining

stiffeners. The gage positioning probably resulted in the apparent discontinuities. The girders are 3 3/8-in. deep and the stiffeners are 1 3/8-in. deep with the longitudinal gages positioned about 1/2 to 3/4 in. below the bottom surface of the 01 deck for both girders and stiffeners. The gages on the girders were a good distance from the assumed neutral axis (N.A.) and the gages on the stiffeners were probably very close to the local N.A. Secondary bending effects may have resulted in higher strains in the deeper girders. Mentioned earlier were the very high strain readings near the 01 deck edges. This order of magnitude of strain (~1500  $\mu$  at 80") is also seen in a deckhouse side gage near the 01 deck.

#### Belt 73

The transverse distributions due to longitudinal bending at Frame 73 are similar to previously discussed belt data. The 01 deck strains are higher near the edges as shown in Figure C.15. The strain reading of the gage near the top of the starboard deckhouse sidewall is similar to strain readings at the 01 deck edge; and there is a significant drop off in strain results going down the wall to the main deck. The low strain reading midway down the wall may be due to the access hatch opening being just 30 in. aft of the gage. The main deck gages show predictable strain readings, with a slight increase in strain at the starboard edge.

#### Belt 95

As with Frame 21, this section of the model does not contain deckhouse structure. The strain gradients at the main deck are not as well behaved as they are for other belts (see Figure C.16). However, as expected, strains at maximum BM were no more than 200  $\mu$ .

#### IN PLANE STRESS CONCENTRATIONS

The majority of transverse bulkheads in the hull and deckhouse superstructure were extensively strain gaged to monitor any in-plane stress concentrations and any misalignment strains in the bulkheads during static testing. A substantial amount of data was obtained for Bulkheads 8, 16, 24, 56, 64, 80, 86, 92, 98, and 108.

The instrumentation associated with Bulkheads 32, 40, and 48 was malfunctioning during the static tests; subsequently no strain data were obtained. The bulkheads are the only component of the model not scaled by one-third. The scaled thickness was doubled to prevent premature buckling.

The majority of bulkhead strain gages read only low to moderate strain values during the tests. Excluding the channels associated with Bulkheads 32, 40, and 48, only a few were open, shorted, or erratic. Bulkhead strain data are shown plotted in Figures C.17 through C.29.

#### BULKHEAD INSTRUMENTATION

Bulkhead instrumentation was located to basically monitor two types of structural phenomena. Gages were located on the flanges of selected stiffeners and on the plating on the opposite side of the selected stiffeners. A major discrepancy in the magnitude of strain would imply local bending was occurring at that location. If a number of channels indicated a major discrepancy, then overall buckling of the bulkhead could have been occurring.

Gages were also located at the "hard points" on the bulkheads near the hull plating (port and starboard). This included gages at the platform deck level (upper chine), near the lower chine, near the inner bottom level, and at the keel.

The strain patterns and distribution in the bulkheads were largely a reflection of the method used to apply the loads to the model. That is, loads were directly transferred from the moveable load frames, through the rubber pads surrounding the bulkheads and then into the bulkhead plating and stiffeners.

In almost all instances, gages near the deck/rubber pad intersection read higher than those nearer the center of the bulkhead. Also, these gages showed somewhat higher strains in the stiffeners than the plate, as might be expected, since a portion of the load is also going through the plate material between stiffeners. Of the gages near the deck, the centerline gage often read the highest strain.

The strain gage rosettes located at the hard points were moderate-to-high in magnitude at the forward and aft ends of the model. The high strains in the forward bulkheads are probably related to the soft chine and high deadrise in the hull.

Except at Bulkhead 108, from Bulkhead 80 and aft, the strains at the rosette locations were quite low. The shape of the hull is much more "boxlike" along this portion of the model with two hard chines and a low deadrise. The higher strains at the hard points on Bulkhead 108 may be due to the method of loading since the load frame is bolted directly to the model. Also for Bulkhead 108, the strains near the uppermost exterior deck are quite small, which is not the case for most other bulkheads.

In general, no major bulkhead structural problems were detected as the result of the static tests. The loads were transferred into the hull through the load frames and bulkheads as expected.

#### STRESS CONCENTRATIONS AND DISCONTINUITIES

A number of areas in the hull and deckhouse were instrumented as areas of stress concentrations and locally high strains during the static tests. Any strain readings corresponding to a stress of 20 ksi or more at the 80% load level could potentially create early fatigue cracking problems during the model's cyclic testing. The model sections which were instrumented included numerous access holes in the deckhouse sides (both port and starboard), 01 deck access holes, main deck access holes, the port-aft corner of the deckhouse (Bulkhead 92 below the main deck) and the forward corners of the deckhouse (Bulkhead 32).

There are three access holes in the 01 deck and all three were instrumented with gages positioned on the outboard portion of the coaming. In addition, the access hole at Frame 38 1/2 had a rosette and three additional gages adjacent to the rosette. The strain in the 01 deck at Frame 38 1/2 is nominally 150  $\mu\epsilon$ ; however, the gage at the aft outboard corner indicates a significantly higher strain (see Figure C.30). Also, the strain gradient drops off in magnitude as the deckhouse side is approached. Figure C.31 shows high strains in the corner of the access hole coaming at Frame 46. Nominal strains at Frame 46 are about 300  $\mu\epsilon$  at 80%; however, a value of over 1200  $\mu\epsilon$  was measured during the cyclic testing. The gage at the corner of Frame 52 access hole indicates a strain only slightly more than the nominal strain of 400  $\mu\epsilon$  (see Figure C.32, locations A and B).

Five of the seven access holes in the main deck were instrumented to varying degrees. The following hatch openings were instrumented: Frame 36 port, Frame 44 port, Frame 66 1/2 starboard, and Frame 77 1/3 port and starboard.

One of the more thoroughly instrumented main deck openings was at Frame 36 port. A series of five gages were placed on both the forward and aft outboard corners of the opening (see Figure C.33). The nominal strain in this area of the main deck at the 80% load during the 60° lag test is about 400  $\mu\epsilon$ . Gages adjacent to the coaming read between 500  $\mu\epsilon$  and 800  $\mu\epsilon$ , and gages at the curved portion of the coaming increased to 900  $\mu\epsilon$  as shown in Figure C.33. A drop in strain occurred on the straight portion approaching the curved section of coaming and where the coaming became transverse to the primary stress direction.

The opening at Frame 44 port was instrumented similar to the opening at Frame 36 (see Figure C.34). The strain distributions are also similar. The nominal strains near Frame 44 are slightly higher (450 to 500  $\mu\epsilon$ ) than at Frame 36, and the strains at the curve in the coaming are near 1000  $\mu\epsilon$ , as shown in Figure C.34.

There are four access holes in the main deck immediately above the engine room compartment. Unlike the two previous square openings, these are elongated in the longitudinal direction. Gages were placed only on the outboard corners of the coaming of the opening at Frame 66 1/2 starboard (see Figure C.35). Again, gages placed on the straight portion of the coaming showed strain readings which were close in magnitude to the nominal strains in that area of the main deck, as seen in Figure C.35. A sizeable increase in strain occurred in the curved portion of the coaming corner.

Gages were placed on the two outboard corners of the opening at Frame 77 1/3 starboard (see Figure C.36). The strain data are not as well behaved as those of previously discussed openings, as can be seen in Figure C.36. The data may be suspect since this opening was utilized both as a pathway for permanently installed instrumentation wiring and as access to the interior of the hull. Gages were also placed in the opening at Frame 77 1/3 port (see Figure C.37). An irregularity appears in the second gage in both series of 5 gages at each corner. If it were not for this irregularity, both distributions would be similar to what has been shown before. It is possible that instrumentation wiring was reversed for these two gages.

A number of gages were placed on or near the coamings of most of the access holes in the deckhouse side between the main deck and the OI deck. Gages were placed on openings at Frames 33, 39, 41, 46, and 62 1/2 on the port side, and at Frames 76, 78 1/2, and 87 on the starboard side. This involved at least a series of 4 gages per coaming, placed on the center of a curved section of the 2-in. wide, 3/8-in. thick coaming. The exact positions of the gages are shown as well as the strain gradients from the static tests in Figures C.38 through C.45. As a result of high strains in many access hole coamings measured during preliminary static tests (i.e., testing prior to the four tests examined for this report), structural modifications were completed. These entailed doubling the thickness of the original 3/16-in. coaming and adding a doubler plate to the deckhouse side adjacent to the opening, as discussed in the main text of this report. The additional coaming piece was welded completely around the existing coaming at both inboard and outboard edges. In addition to the previously mentioned modifications, a closure plate was used at Frame 33 port access hole in the deckhouse. The gages originally placed on the coaming were repositioned when the closure plate was installed. The gages formed a rosette near the upper forward corner of the opening. The remaining gage was placed at the lower forward corner on the doubler plate (a strain reading of 560  $\mu\epsilon$  was measured at 80% load). Also, fashion plates were added to the structure forward of Bulkhead 33.

Figure C.45 is a plot of the strain gradients (due to 80% BM) near the intersection of the port deckhouse corner at Bulkhead 92 and the main deck.

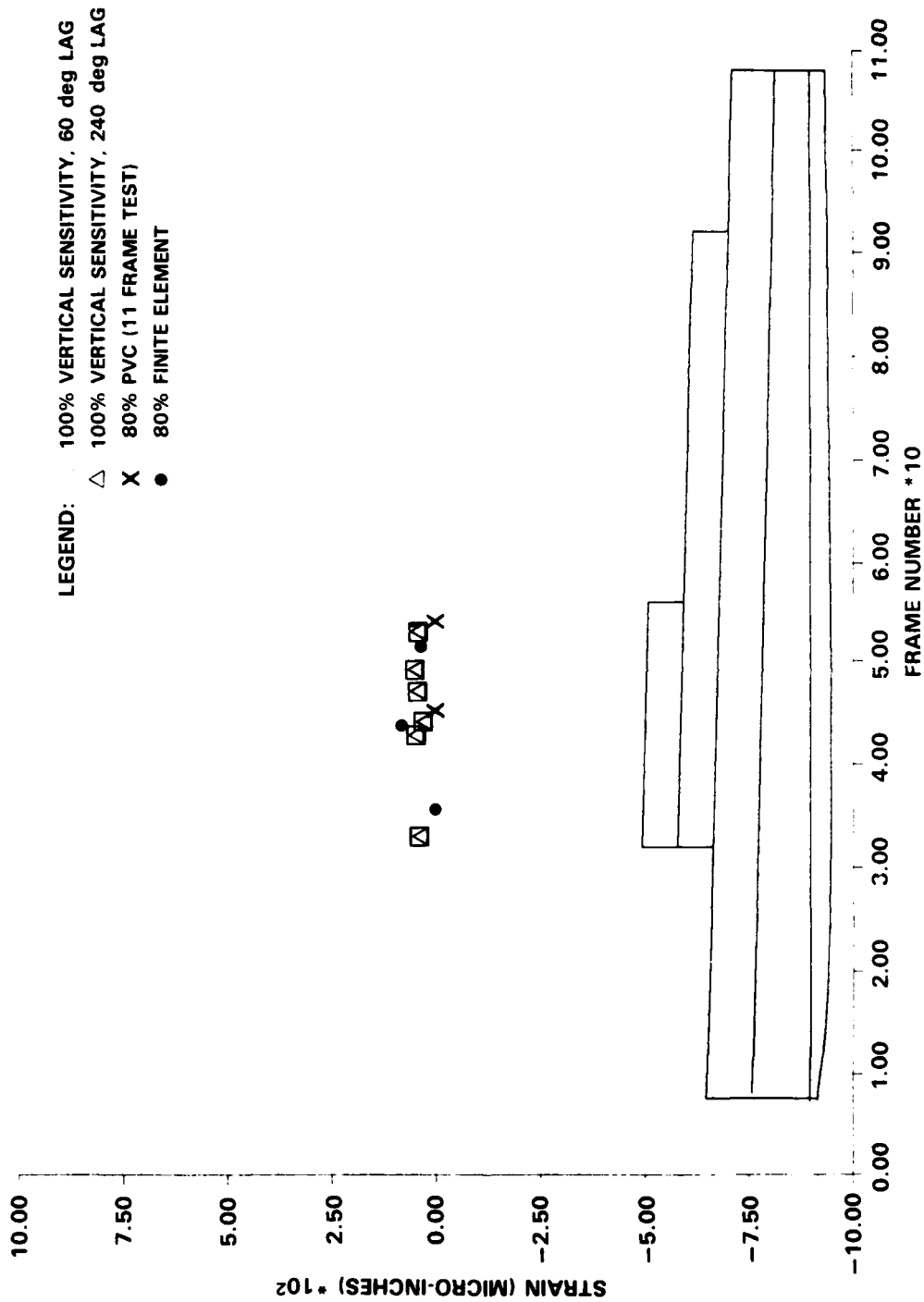


Figure C.1 - Longitudinal Distribution of Longitudinal Bending Strain  
 of the 02 Deck Centerline

LEGEND:    100% VERTICAL SENSITIVITY, 60 deg LAG  
           △ 100% VERTICAL SENSITIVITY, 240 deg LAG  
           X 80% PVC (11 FRAME TEST)  
           ● 80% FINITE ELEMENT

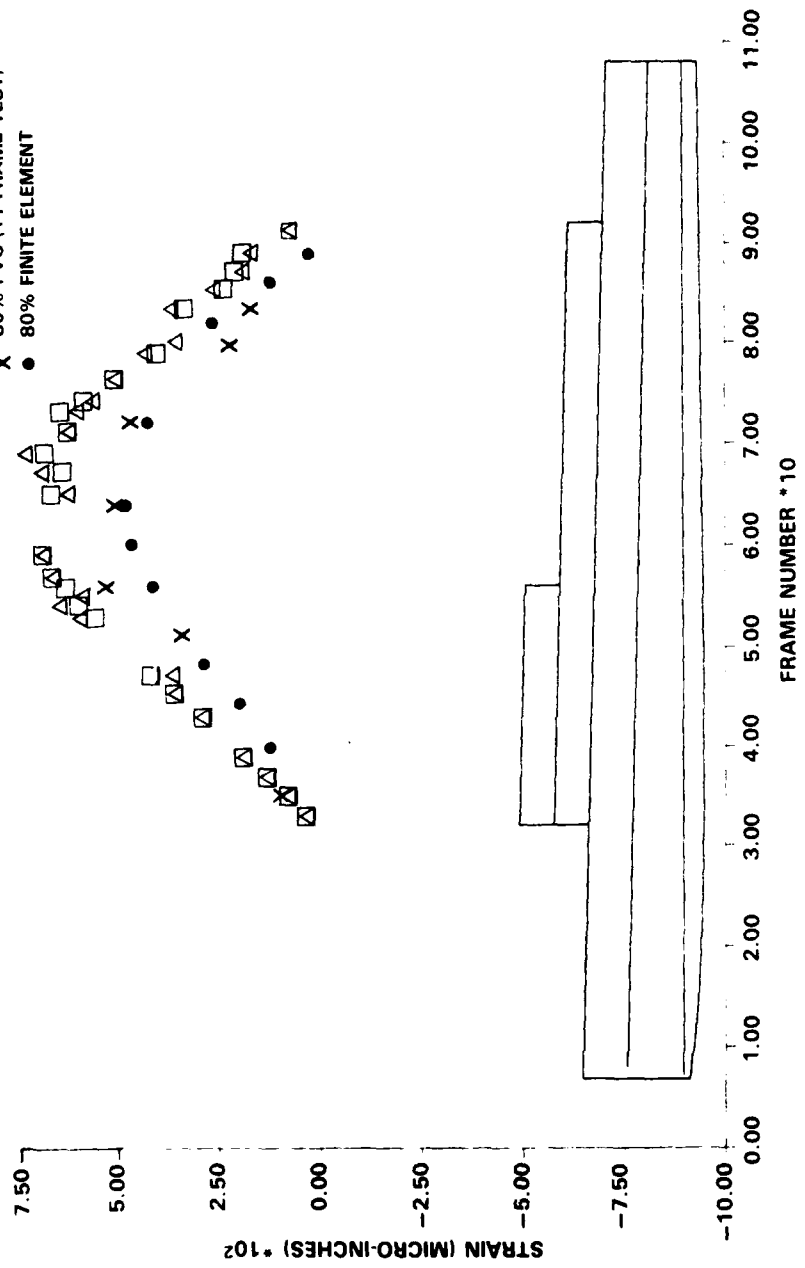


Figure C.2 - Longitudinal Distribution of Longitudinal Bending Strain of the 01 Deck Centerline



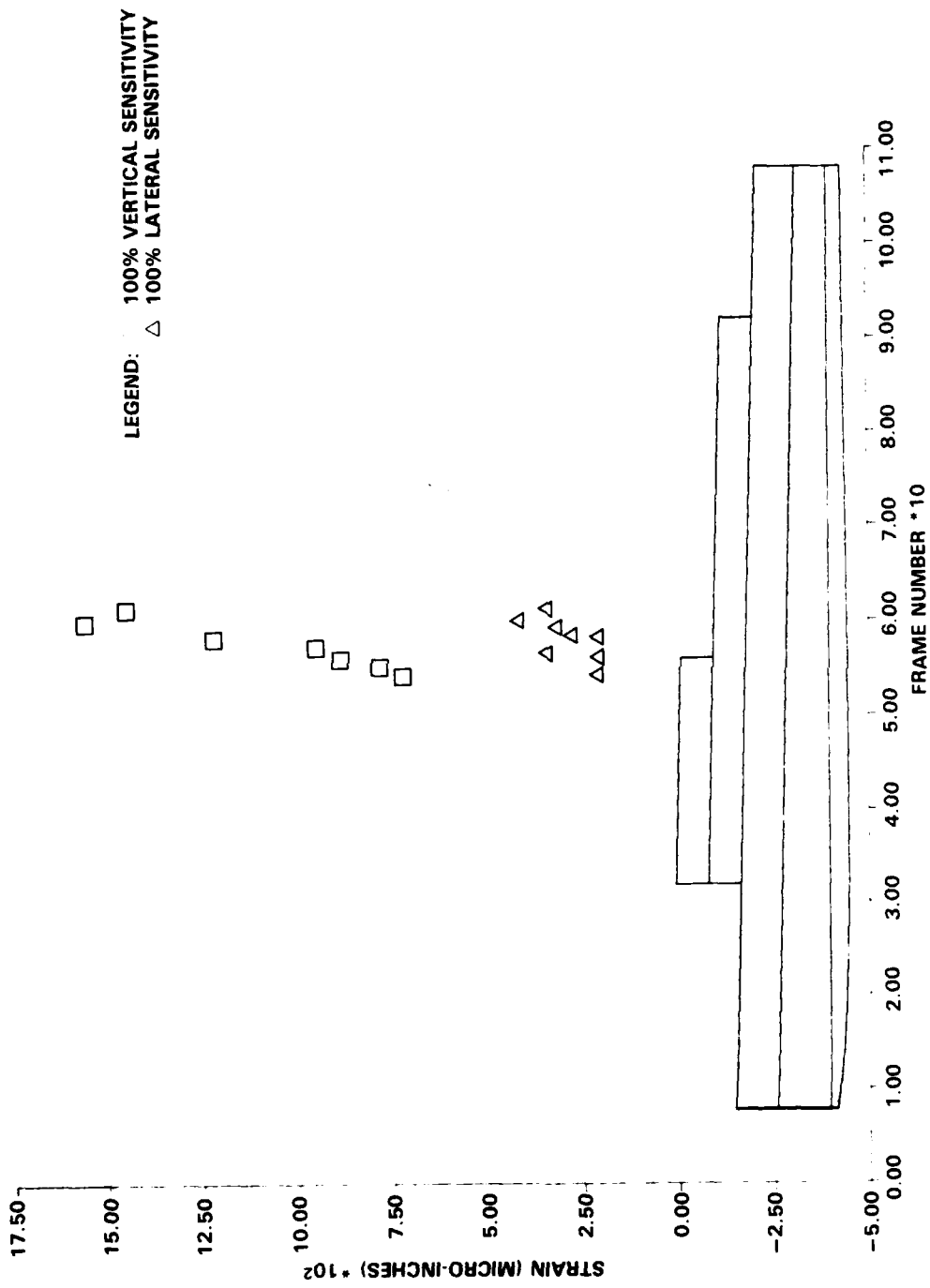


Figure C.3 - Longitudinal Distribution of Longitudinal Bending Strain of 01 Deck Starboard Edge (From Frame 54 through Frame 61)

LEGEND:    100% VERTICAL SENSITIVITY, 60 deg LAG  
 △ 100% VERTICAL SENSITIVITY, 240 deg LAG  
 X 80% PVC (11 FRAME TEST)  
 ● 80% FINITE ELEMENT

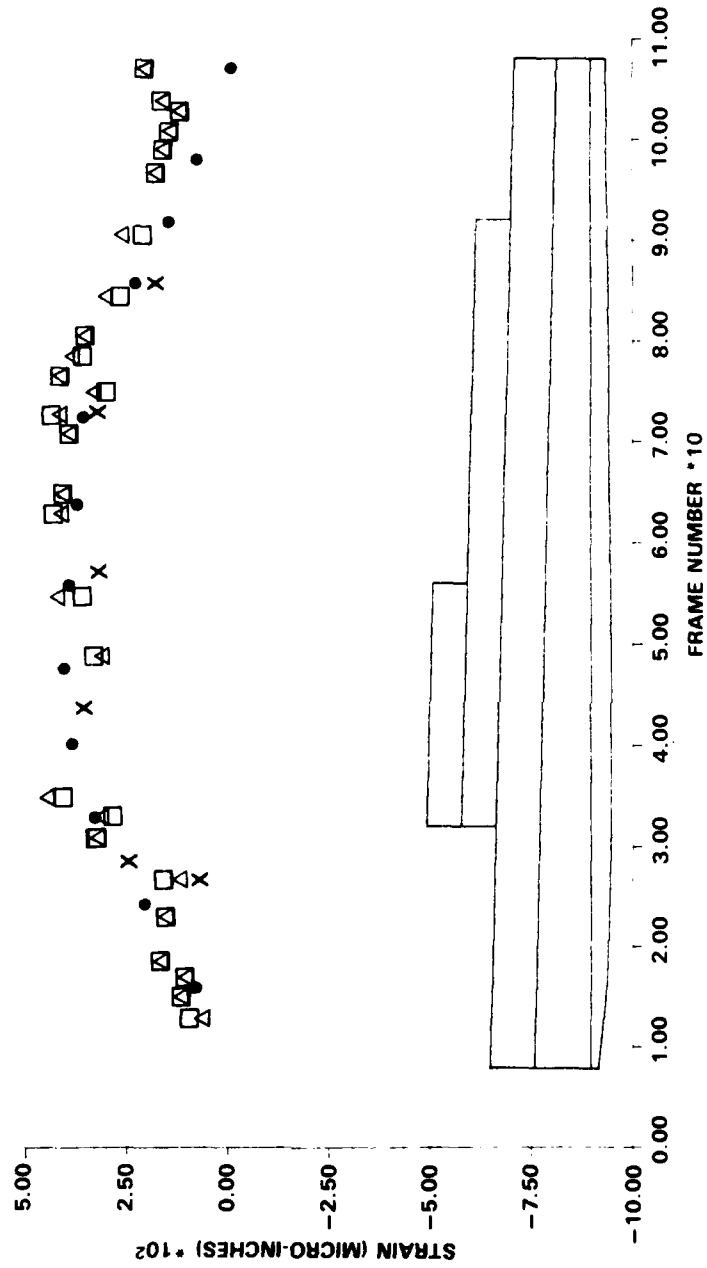


Figure C.4 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck Centerline

LEGEND:  $\square$  100% VERTICAL SENSITIVITY, 60 deg LAG  
 $\triangle$  100% VERTICAL SENSITIVITY, 240 deg LAG

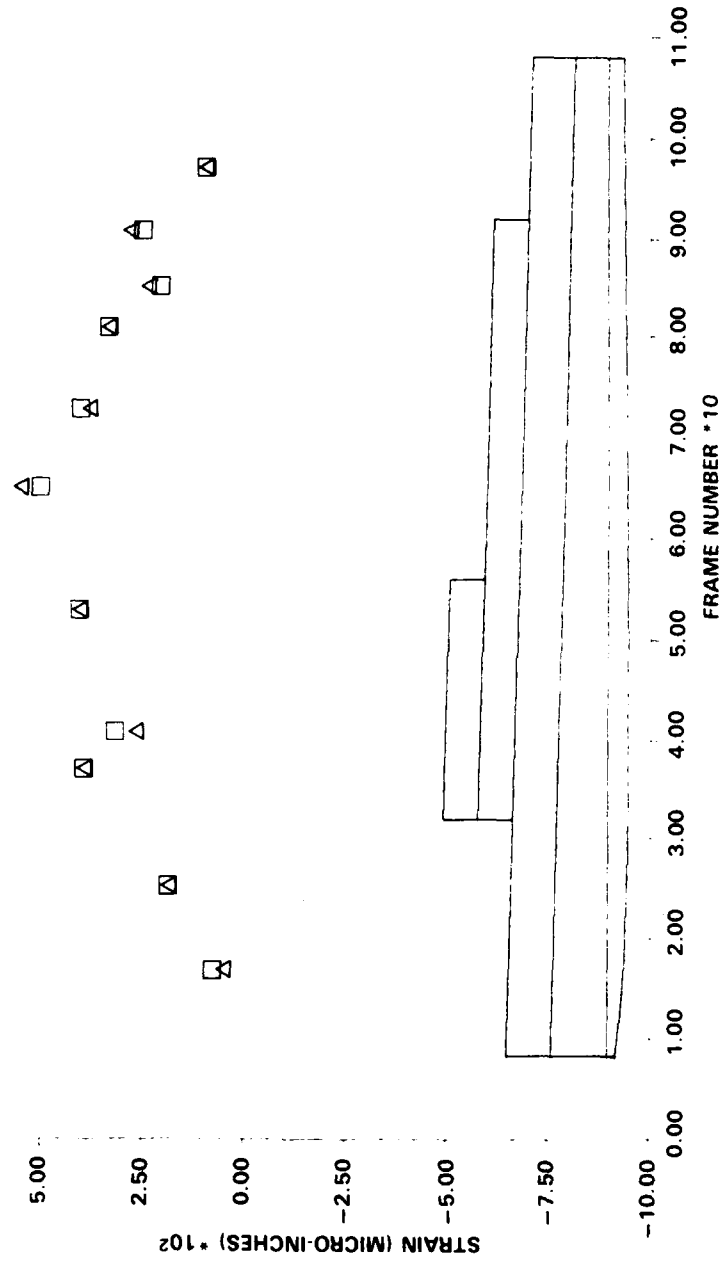


Figure C.5 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Port Gunwale

LEGEND:  $\square$  100% VERTICAL SENSITIVITY, 60 deg LAG  
 $\triangle$  100% VERTICAL SENSITIVITY, 240 deg LAG

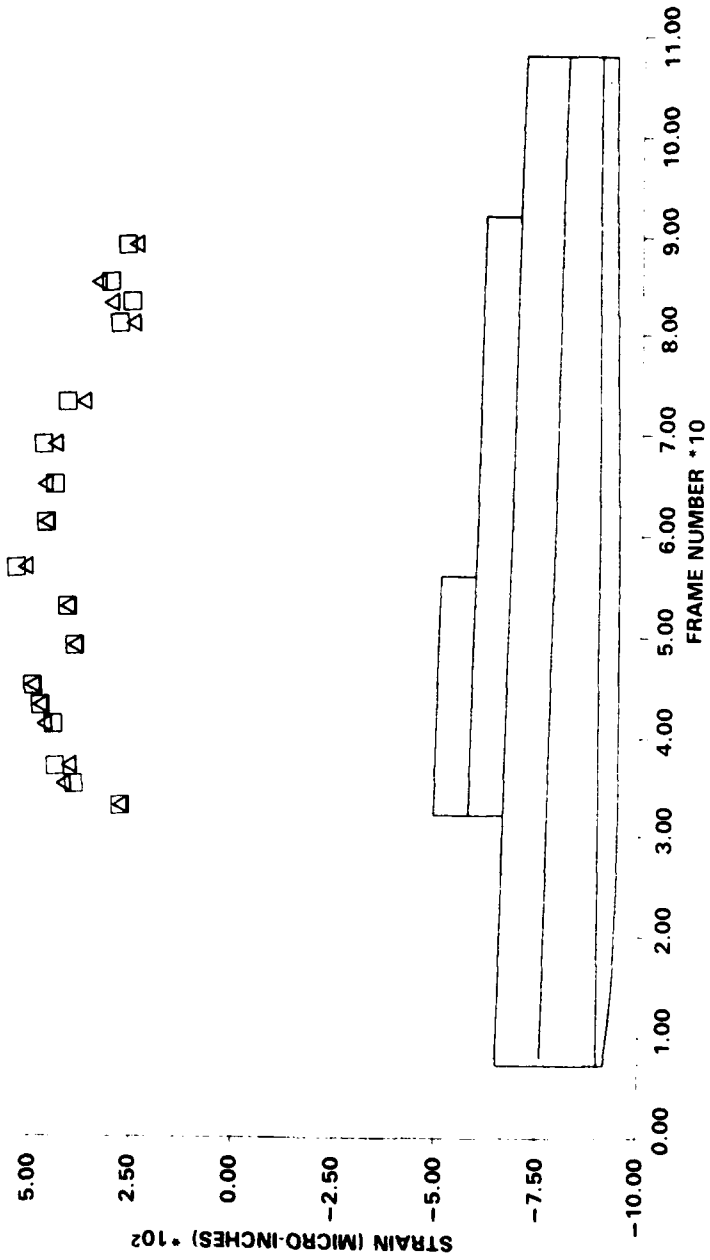


Figure C.6 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Port, Near Deckhouse Side

LEGEND: □ 100% VERTICAL SENSITIVITY, 60 deg LAG  
 △ 100% VERTICAL SENSITIVITY, 240 deg LAG

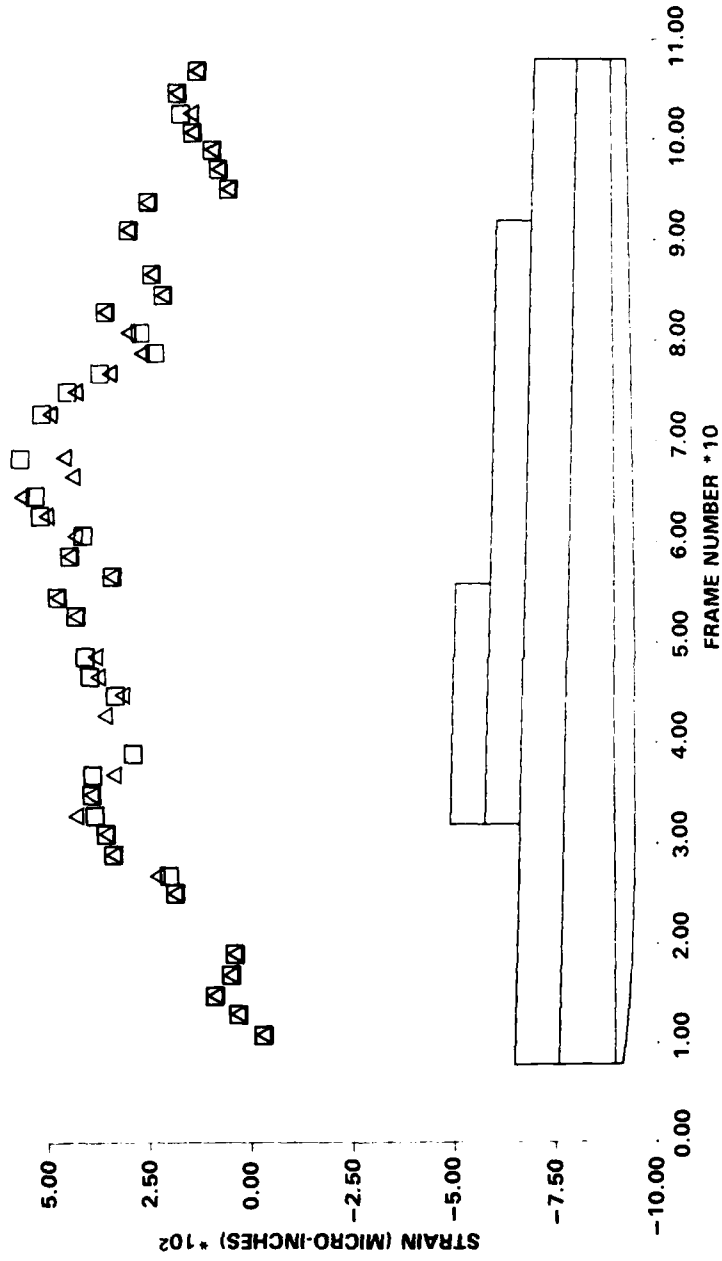


Figure C.7 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Starboard Gunwale

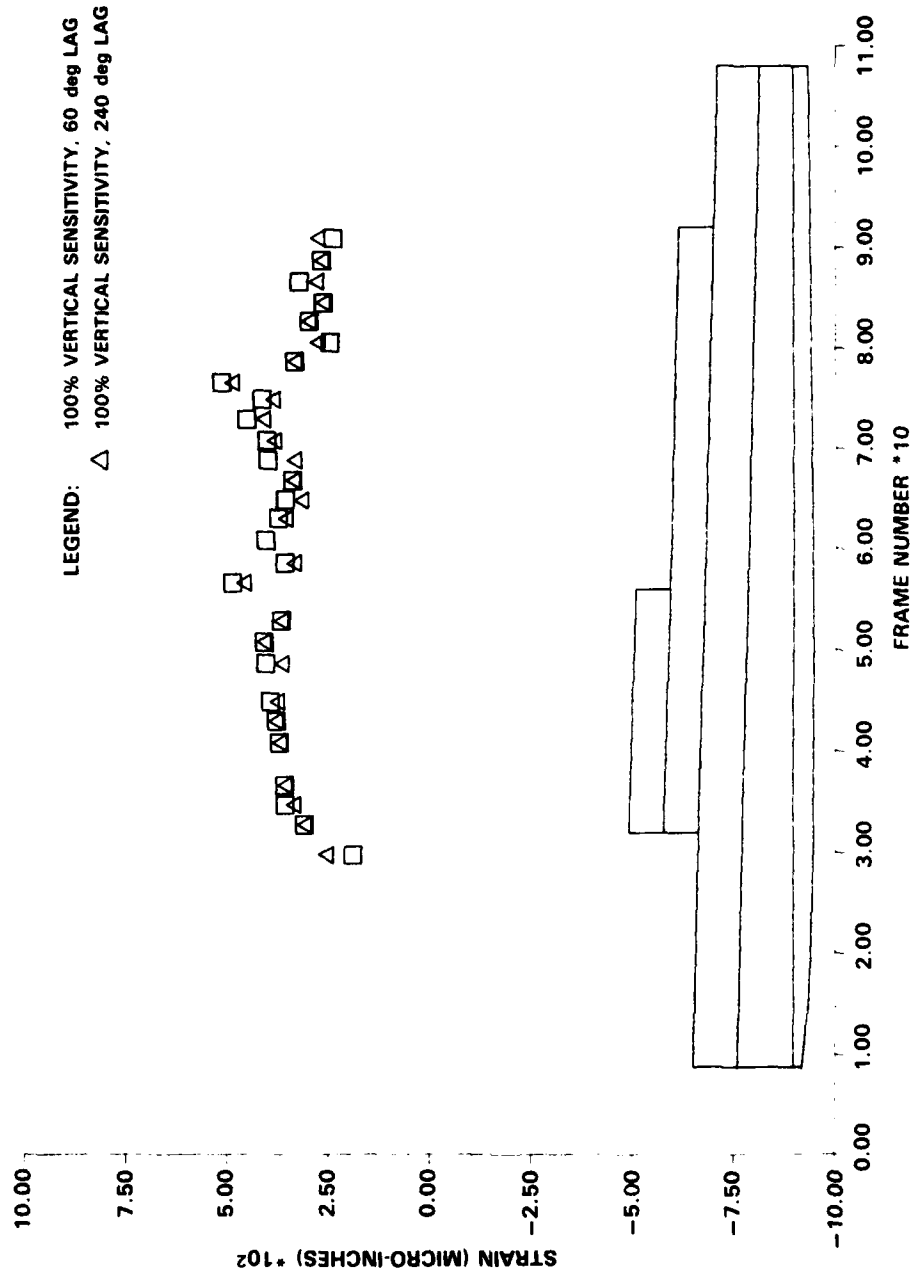


Figure C.8 - Longitudinal Distribution of Longitudinal Bending Strain of the Main Deck, Starboard, Near Deckhouse Side

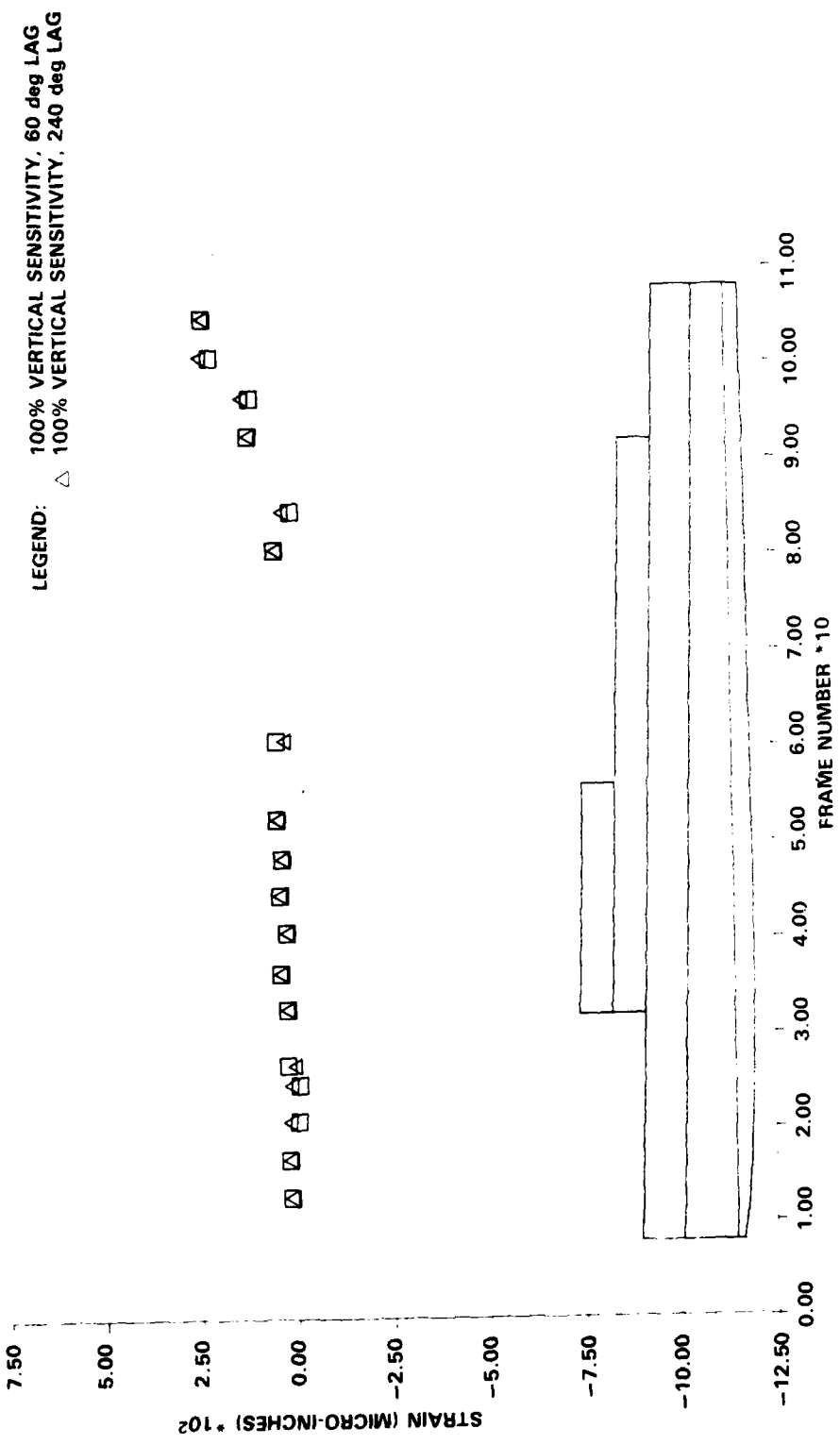


Figure C.9 - Longitudinal Distribution of Longitudinal Bending Strain of the Platform Deck, Centerline

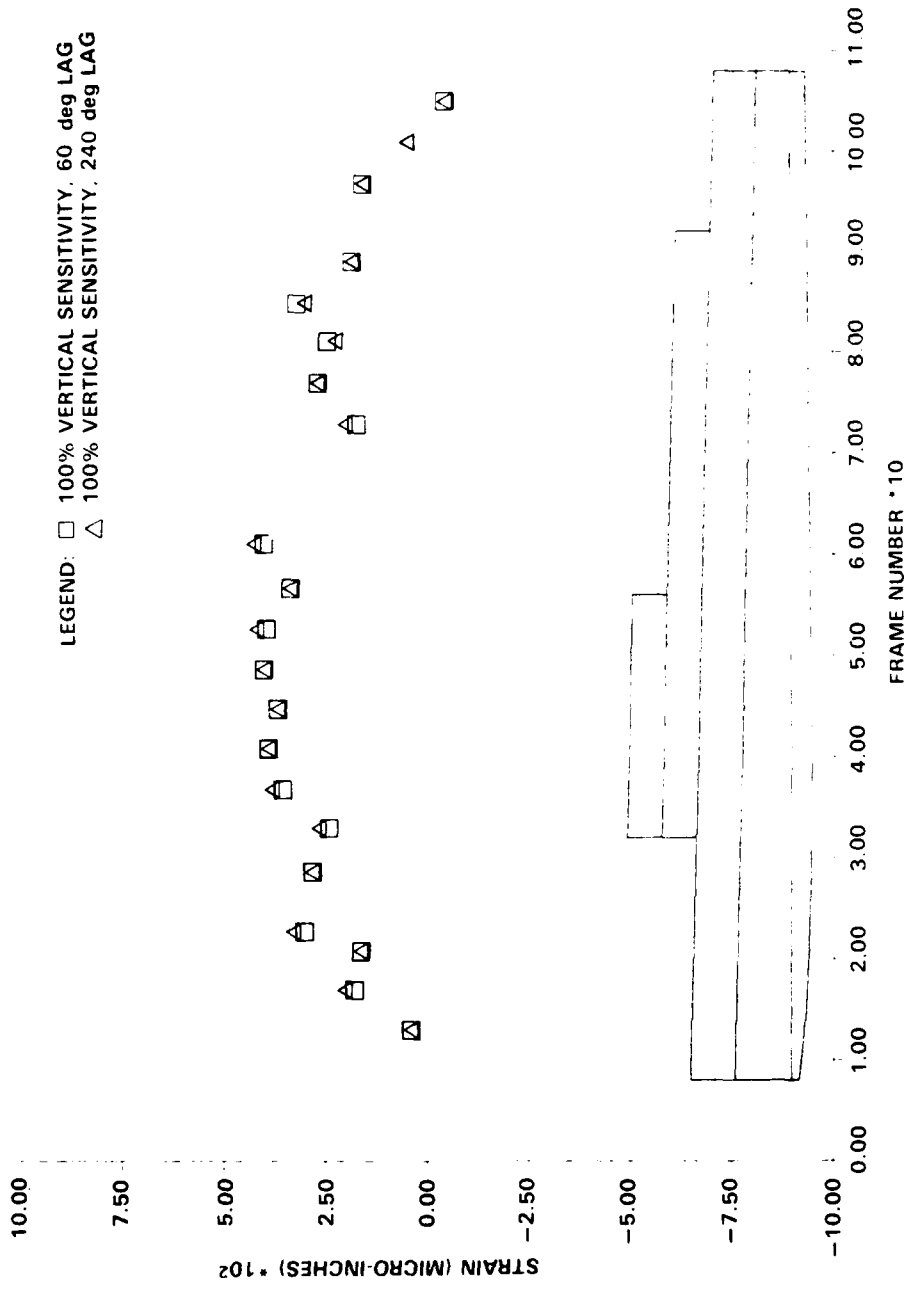


Figure C.10 - Longitudinal Distribution of Longitudinal Bending Strains of the Inner Bottom Centerline



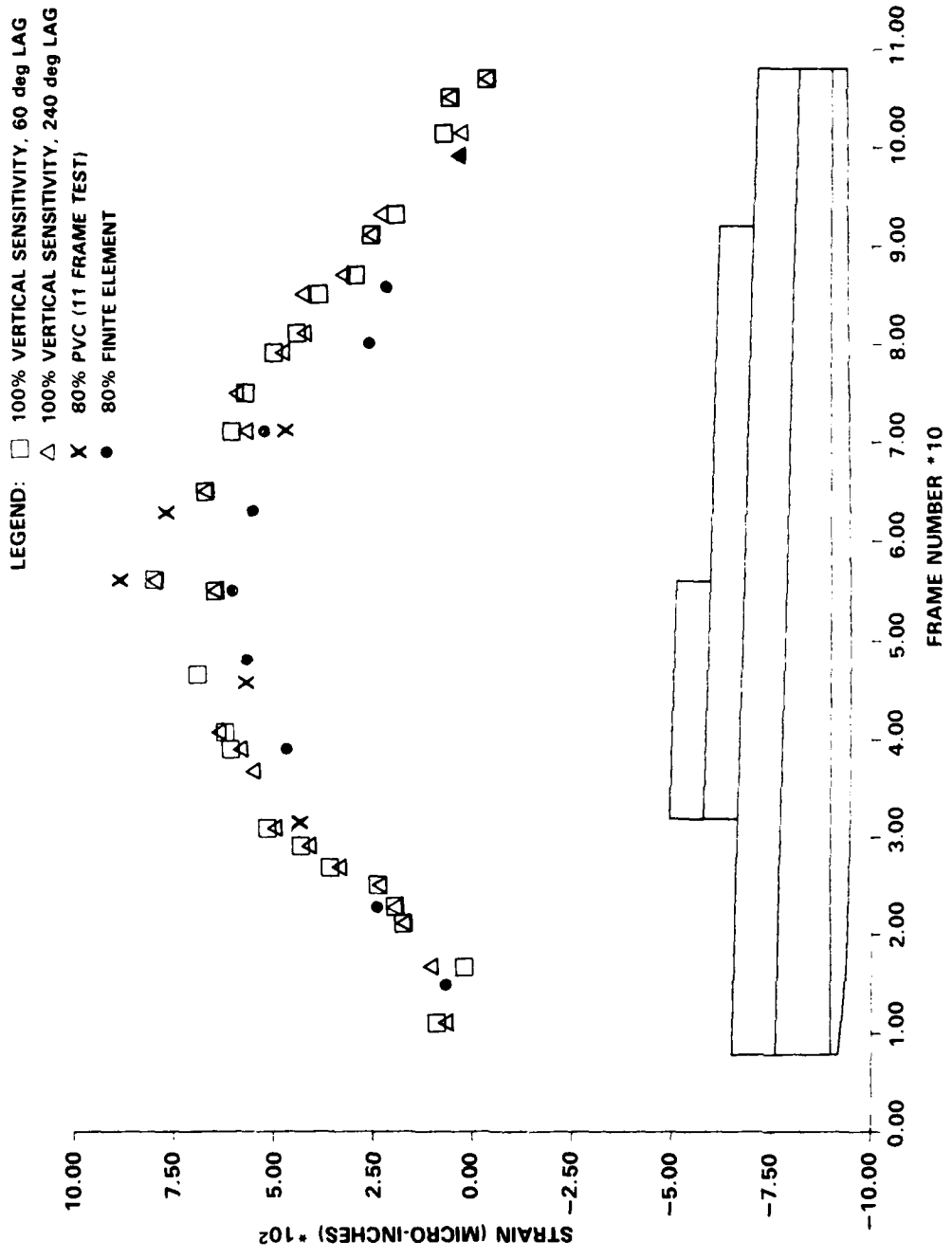


Figure C.11 - Longitudinal Distribution of Longitudinal Bending Strain of the Keel Centerline

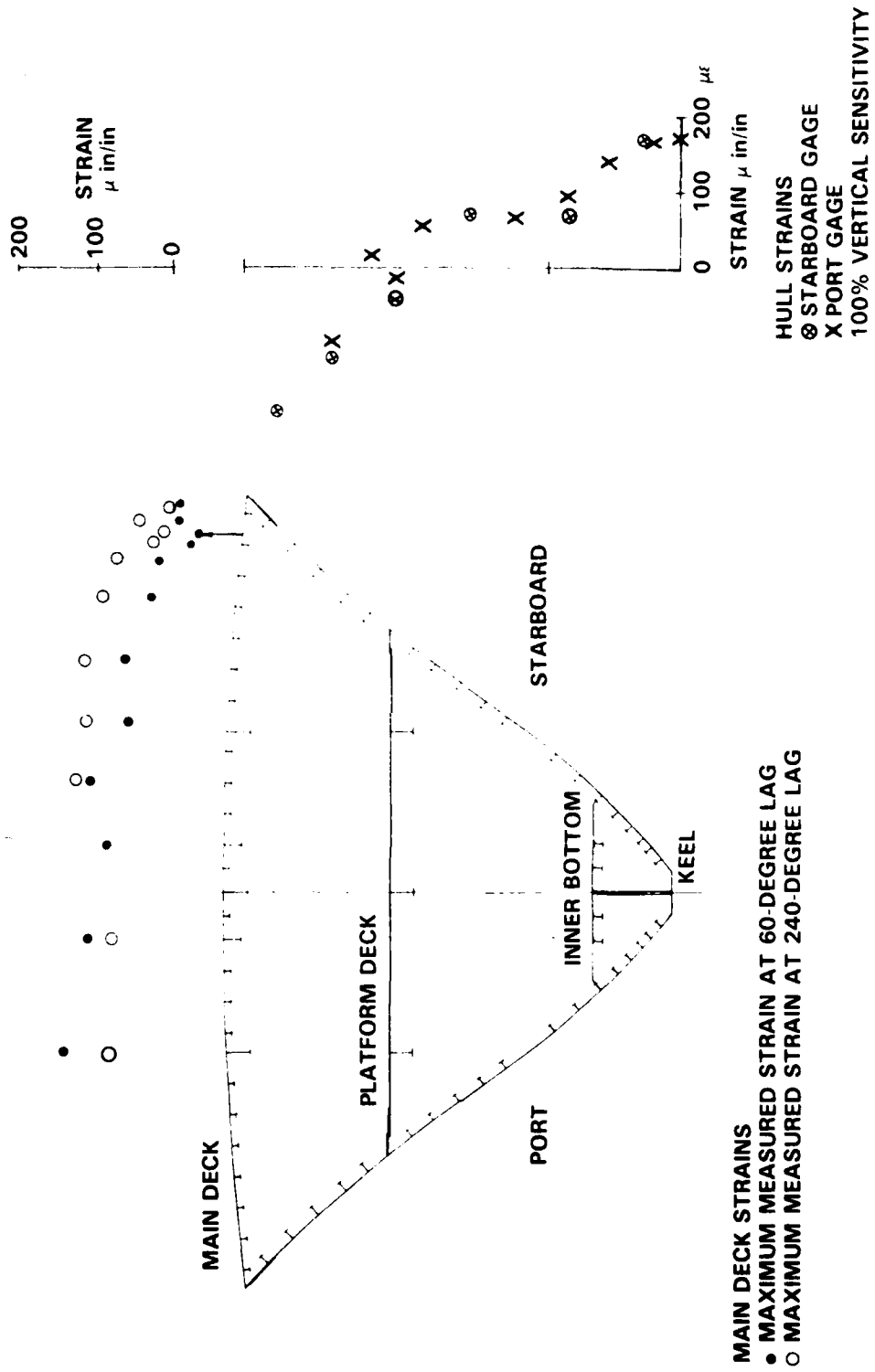


Figure 6.12 - Transverse Distributions of Longitudinal Bending Strain at Frame 31

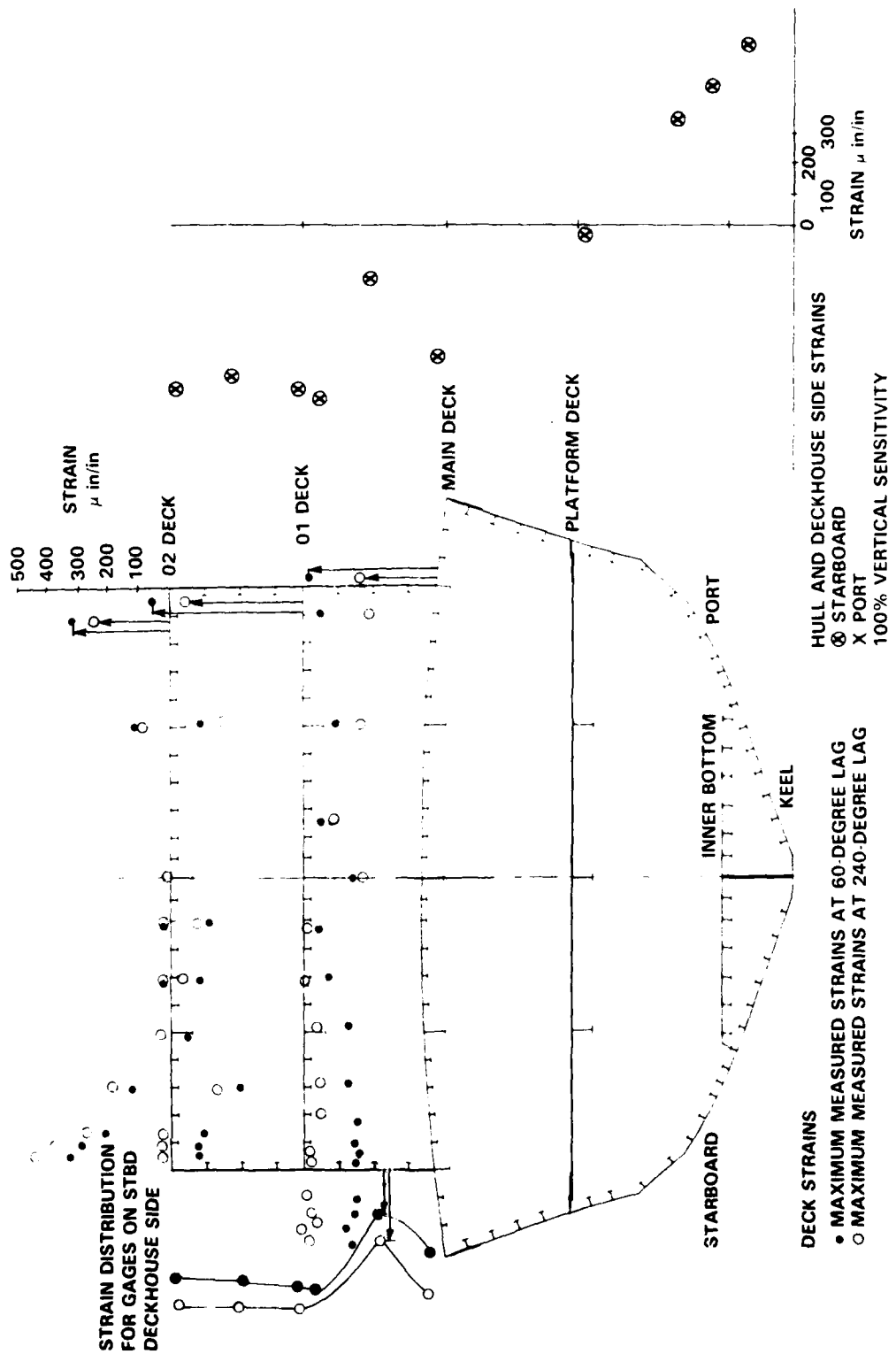


Figure C.13 - Transverse Distributions of Longitudinal Bending Strain at Frame 49

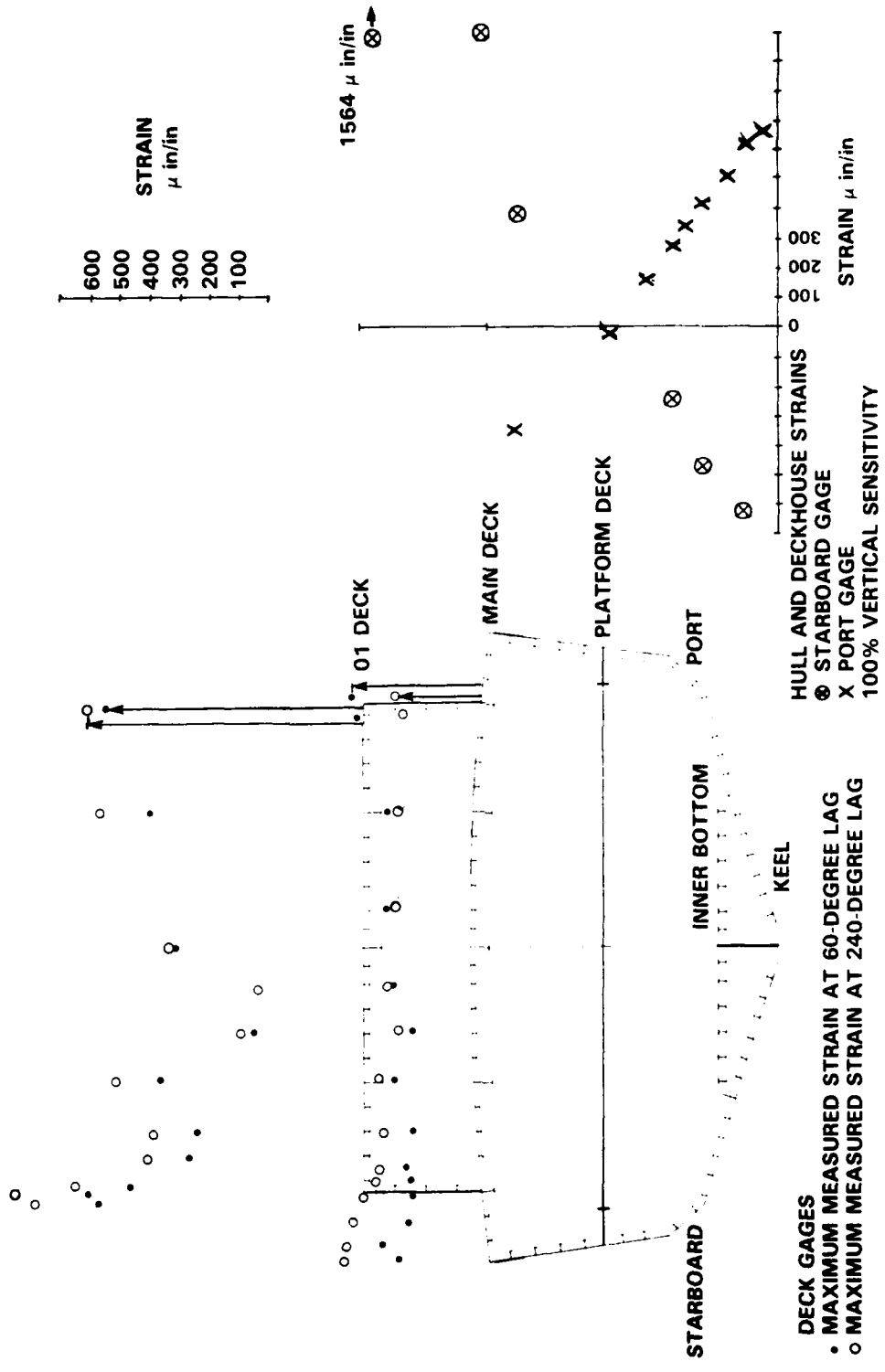


Figure C.14 - Transverse Distributions of Longitudinal Bending Strain at Frame 61

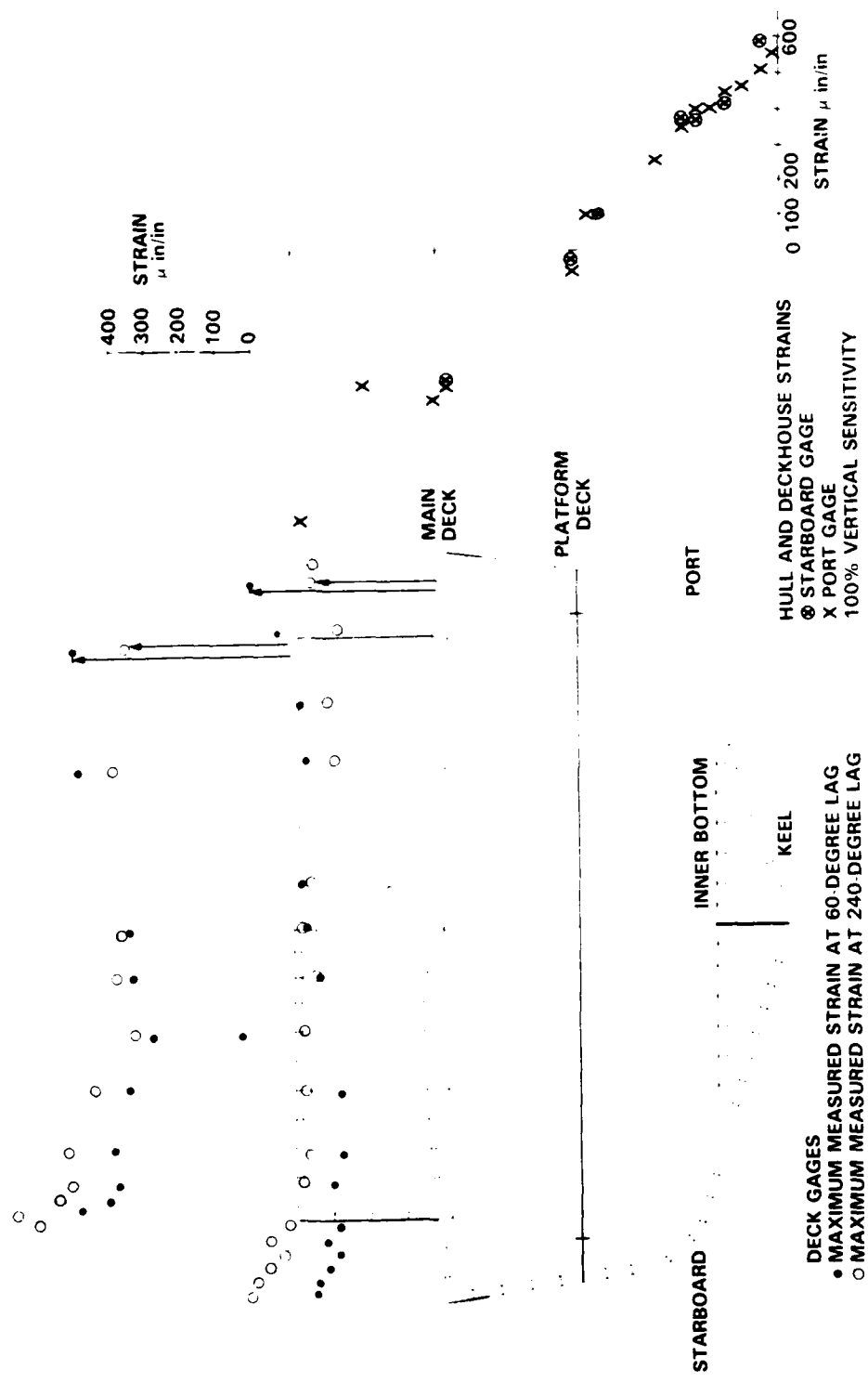


Figure C.15 - Transverse Distributions of Longitudinal Bending Strain at Frame 73

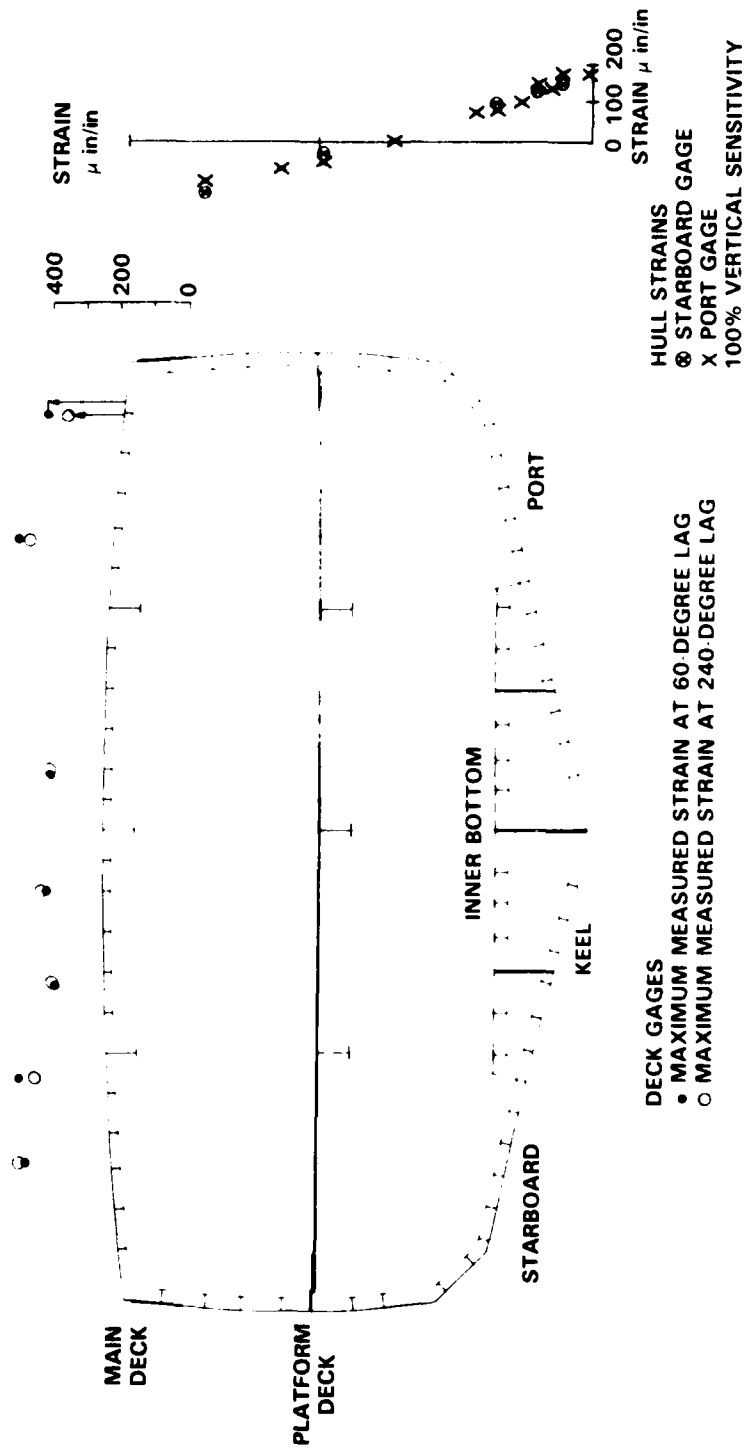


Figure C.16 - Transverse Distributions of Longitudinal Bending Strain in Frame 05

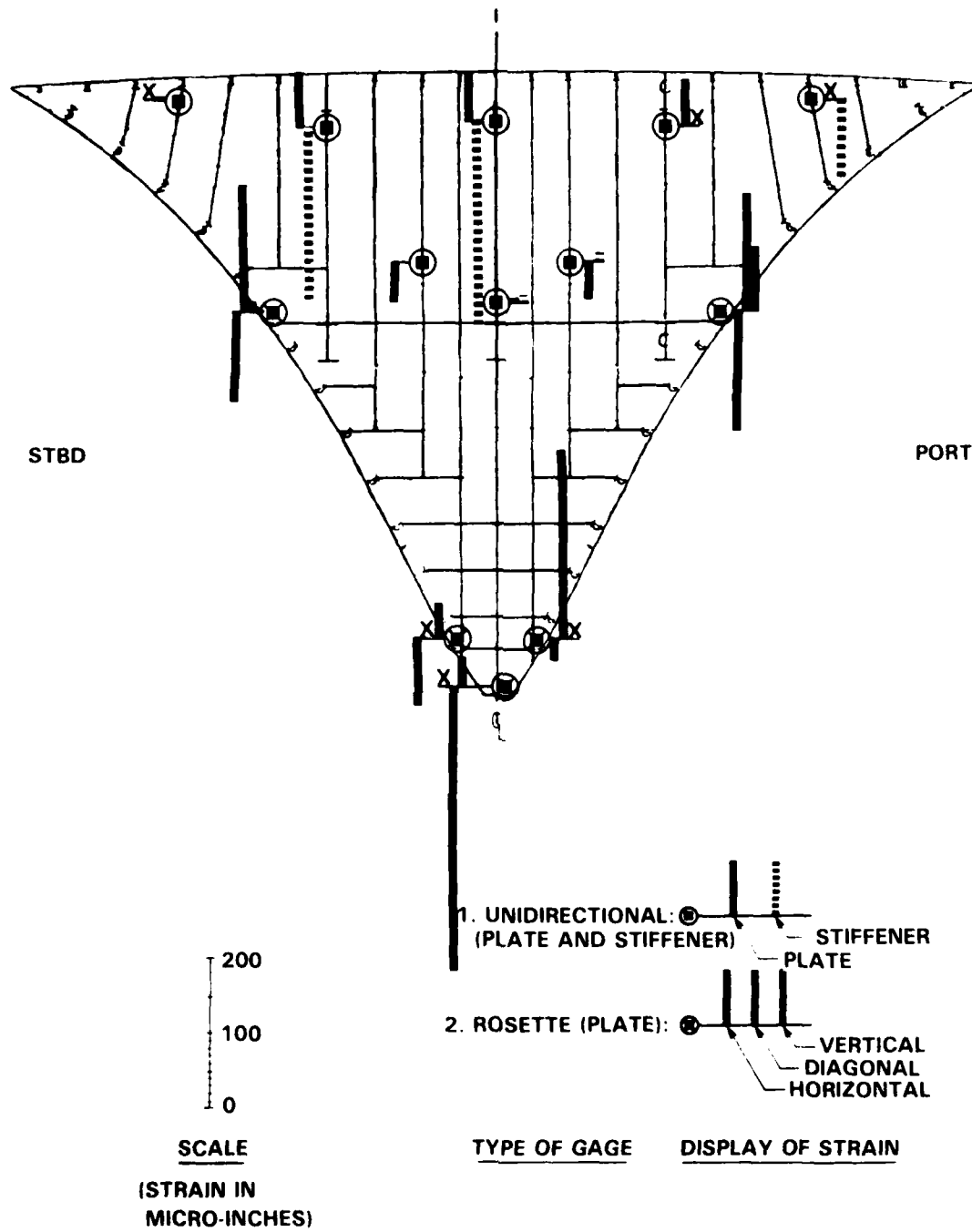


Figure C.17 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 8

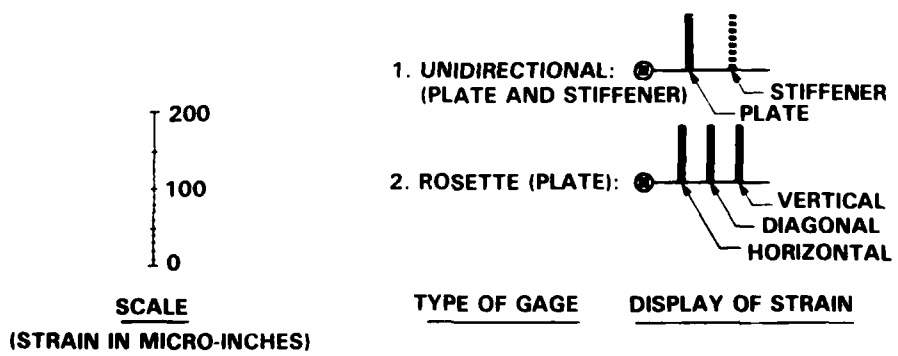
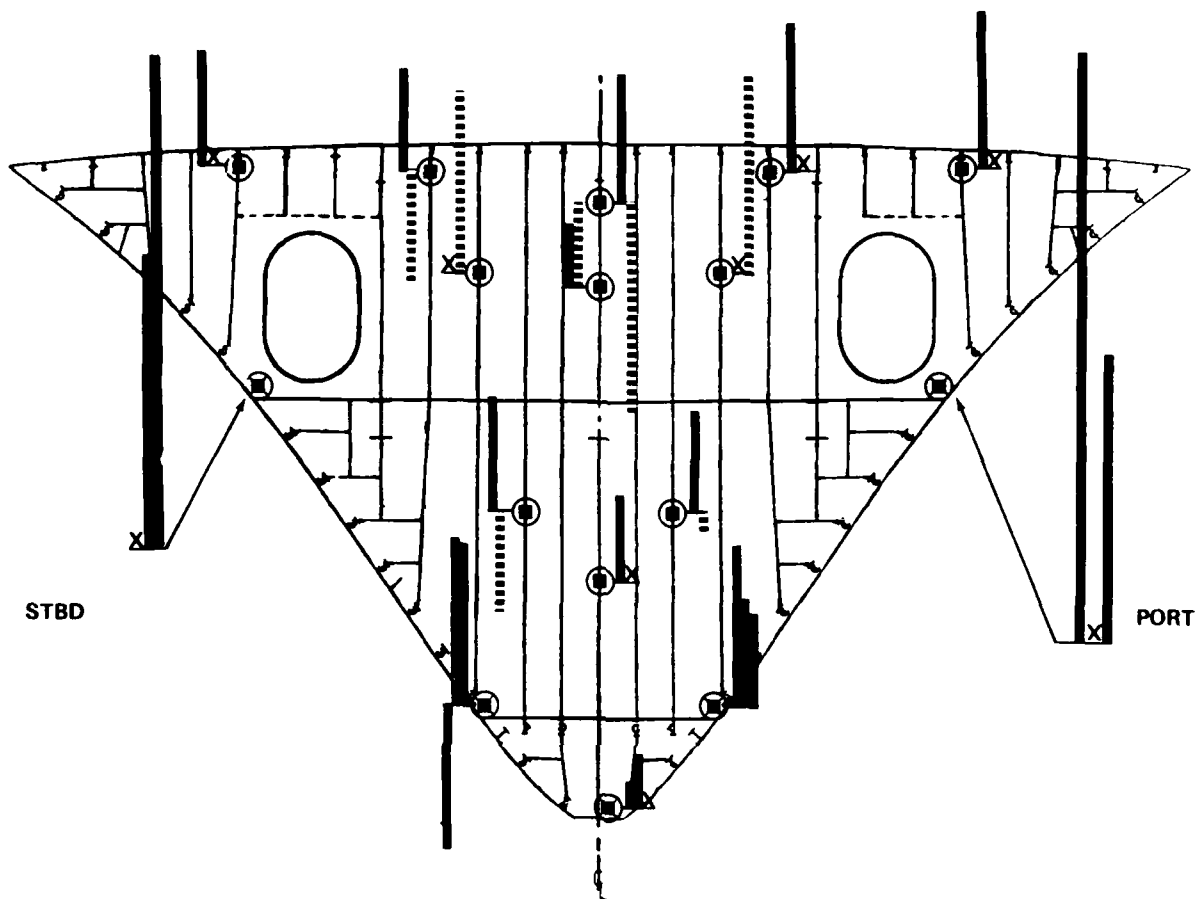


Figure C.18 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 16



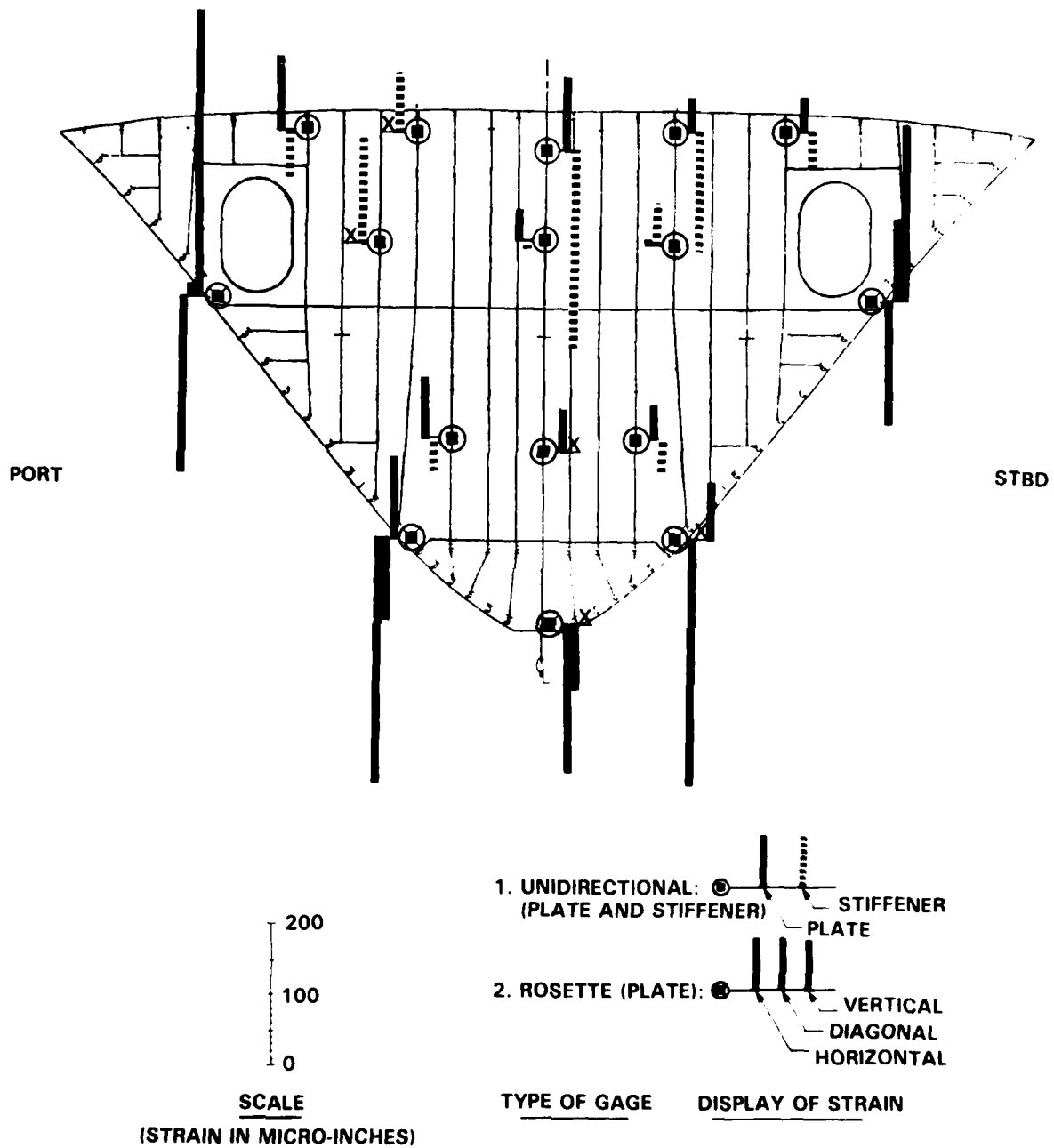
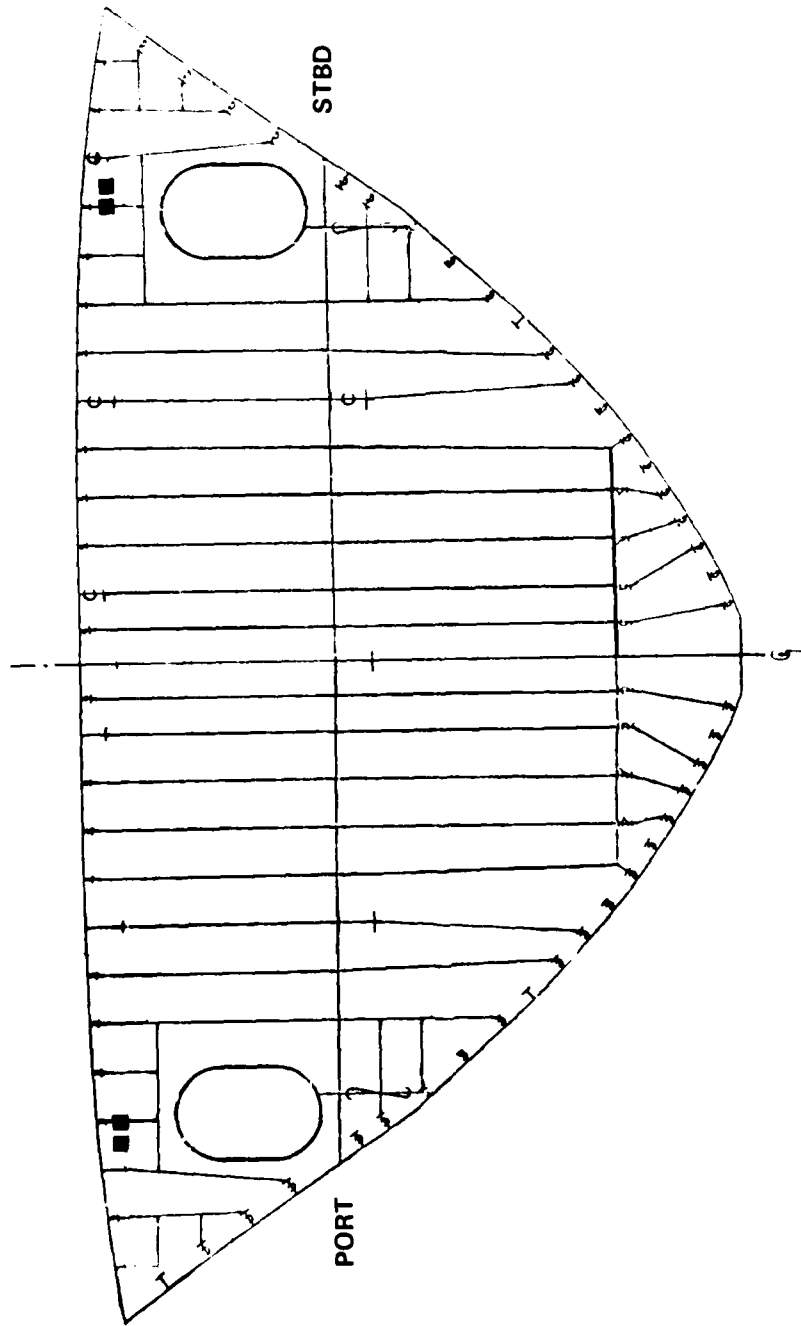
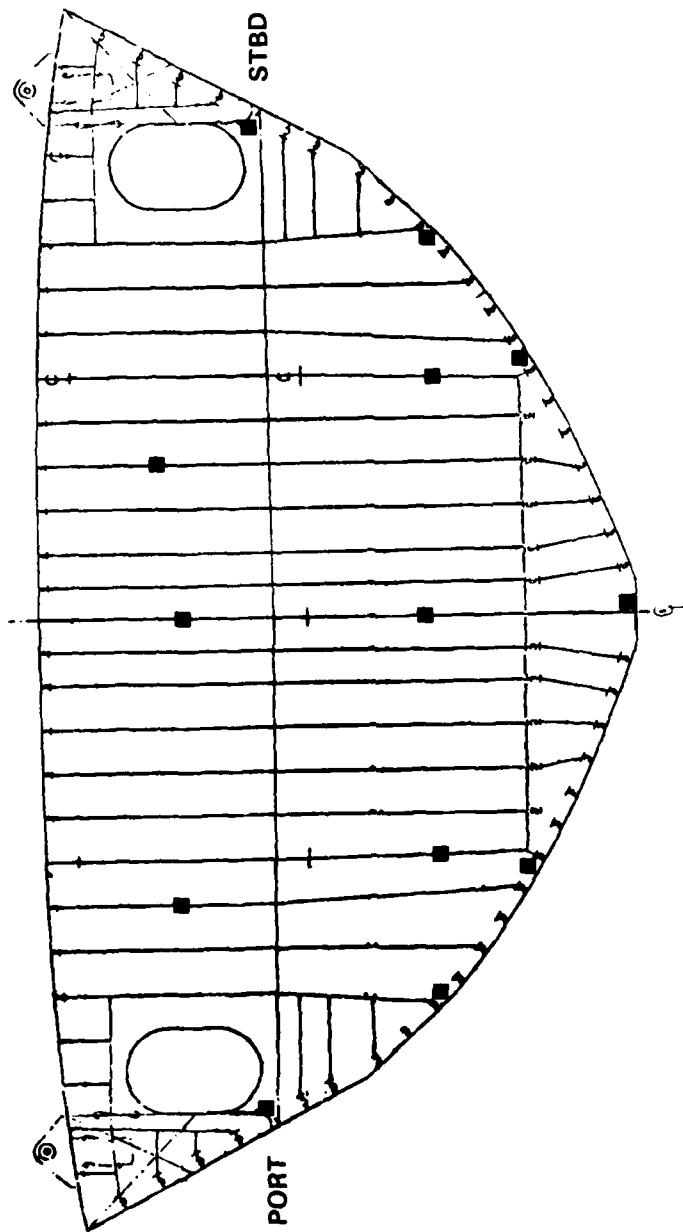


Figure C.19 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 24



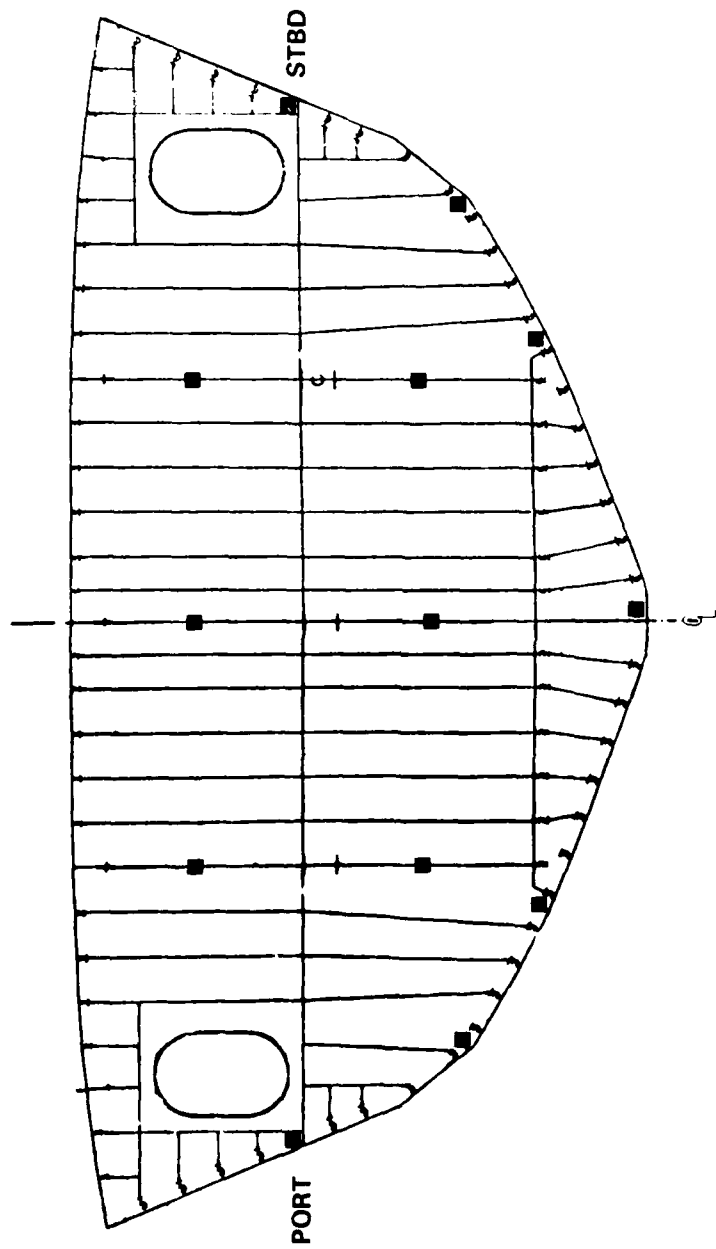
**NO DATA**

Figure C.20 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 32



**NO DATA**

Figure C.21 - Plot of 100 Percent Vertical Sensitivity from Test Data  
of 9-22-77 for Bulkhead 40



NO DATA

Figure G.22 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 48

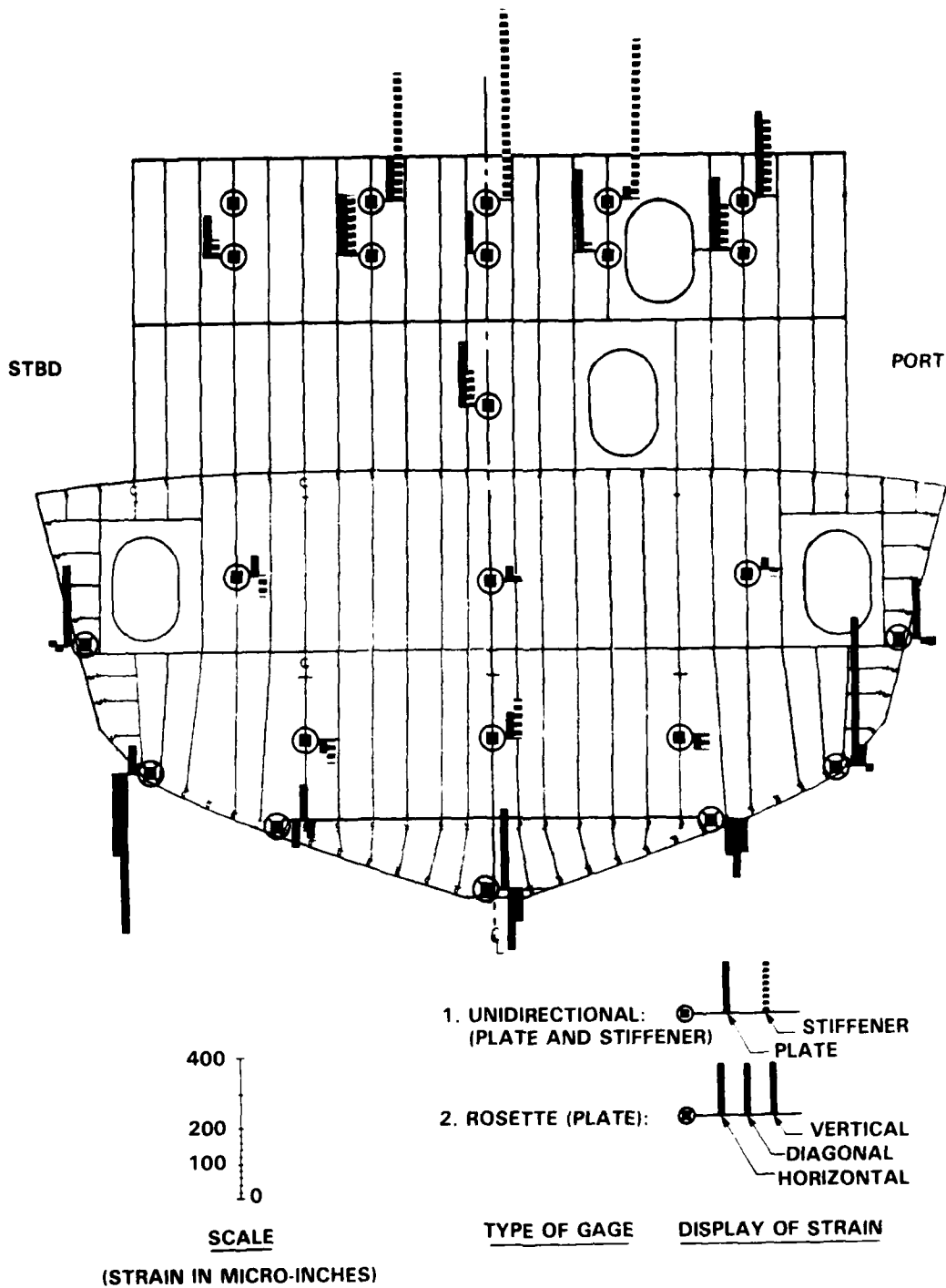


Figure C.23 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 56

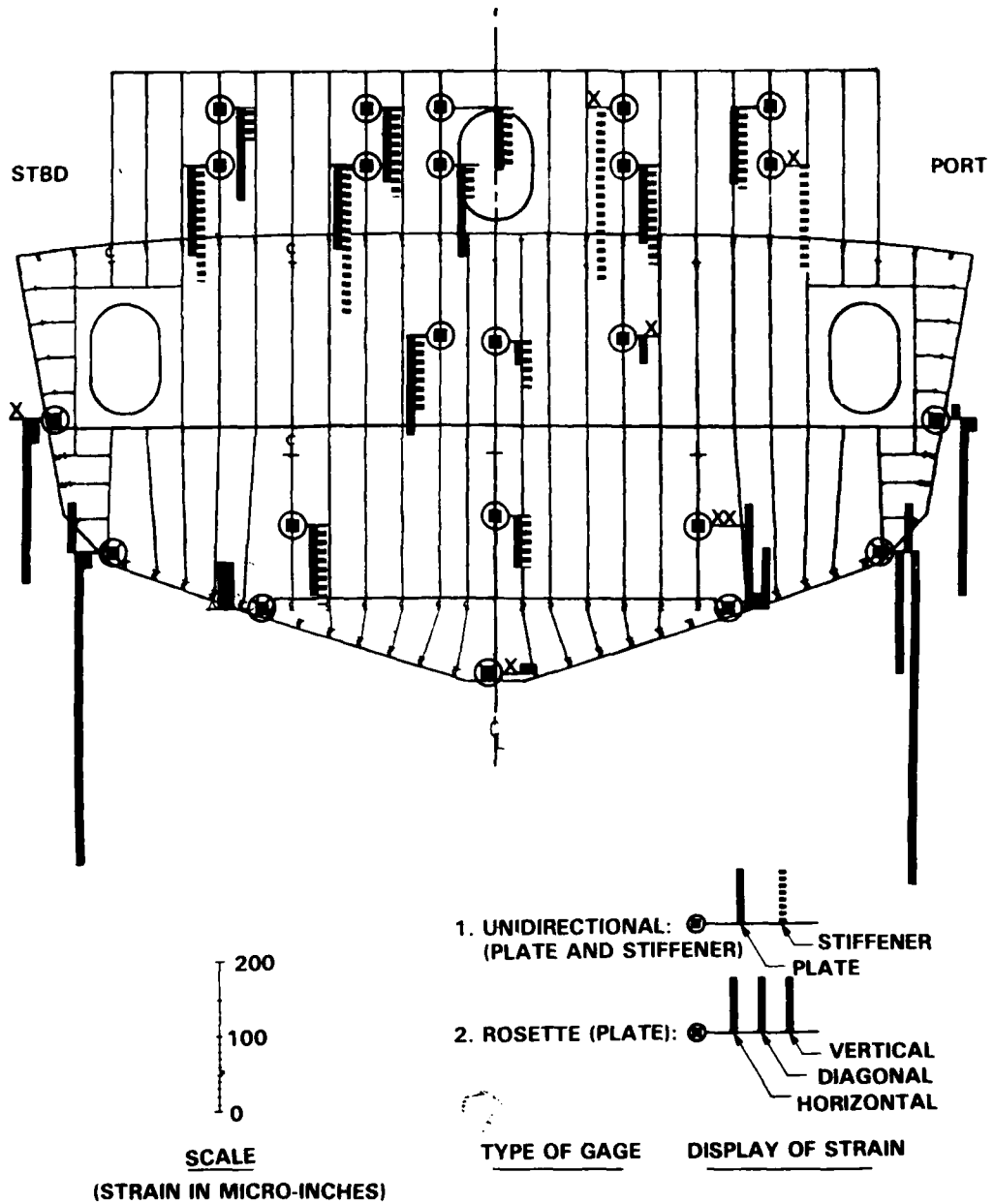


Figure C.24 - Plot of 100 Percent Vertical Sensirivity from Test Data of 9-22-77 for Bulkhead 64

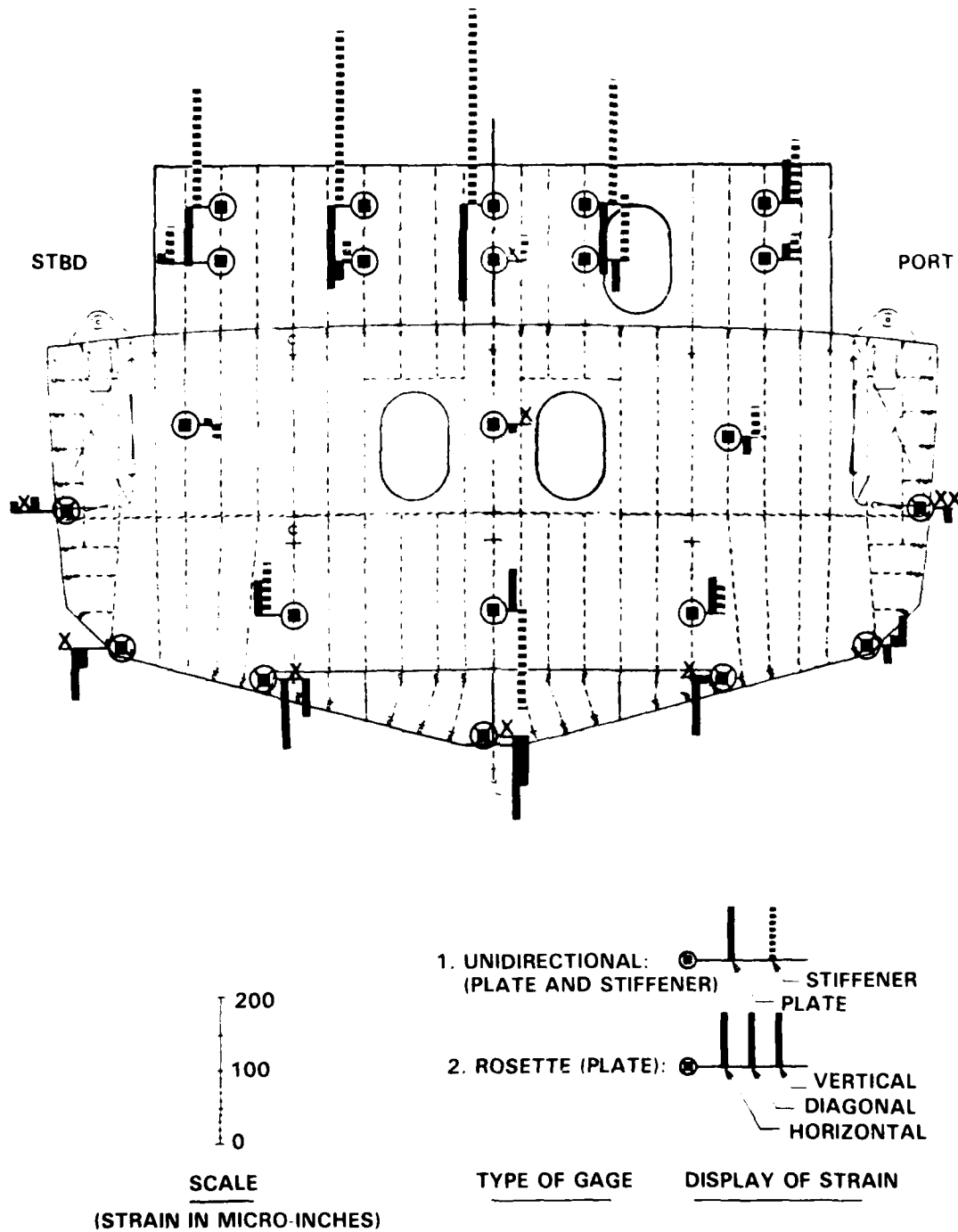


Figure C.25 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 80

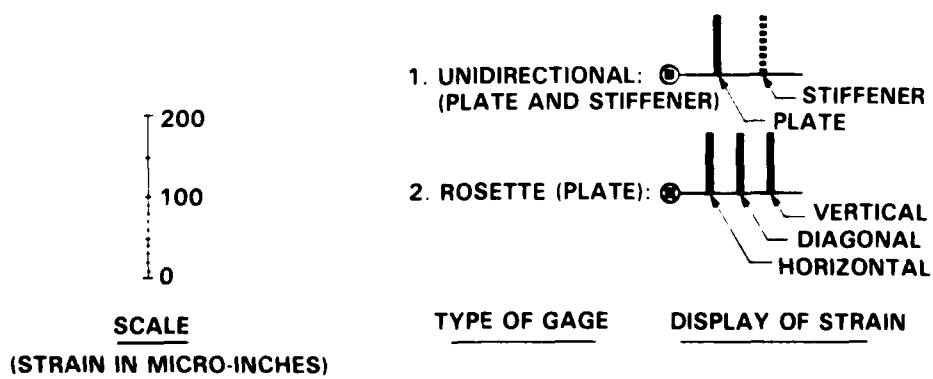
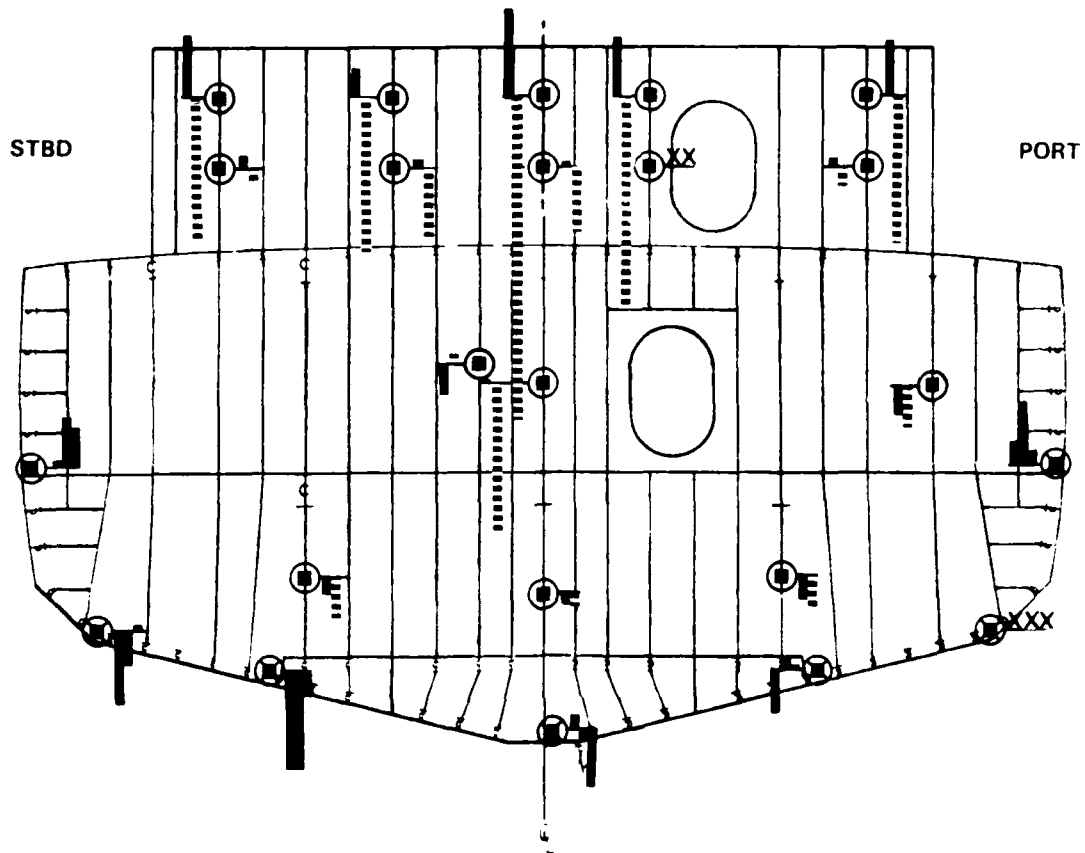


Figure C.26 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 86



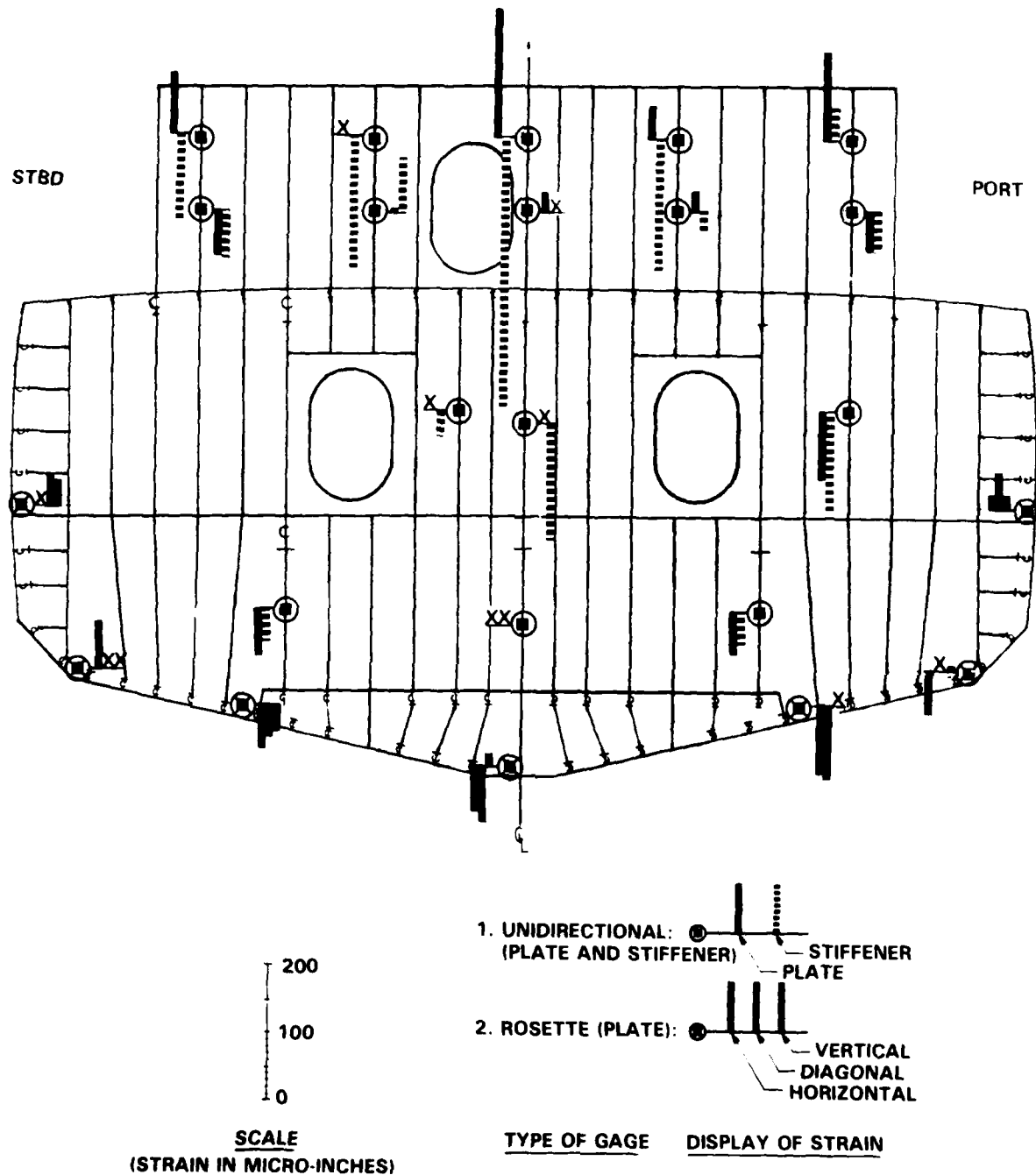


Figure C.27 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 92

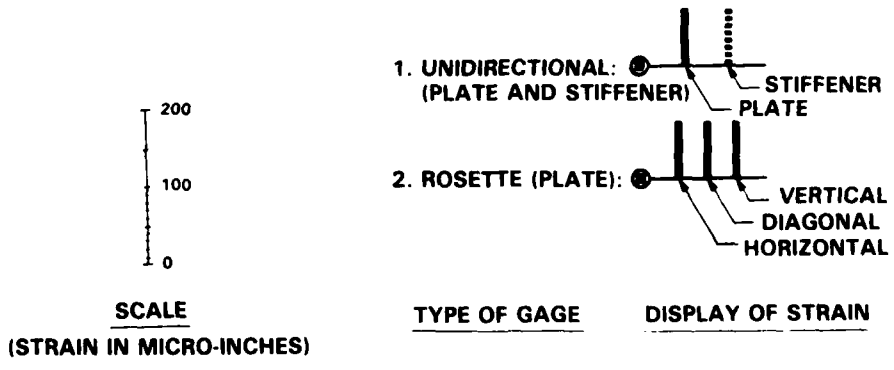
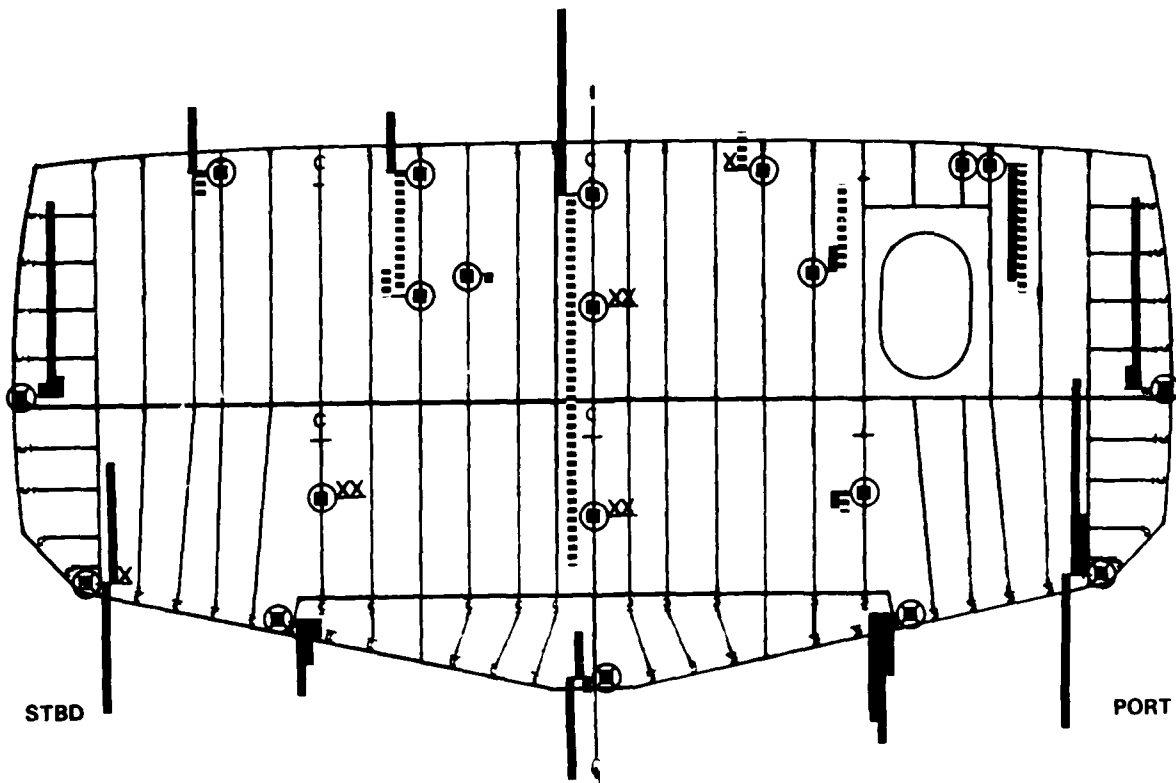


Figure C.28 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 98

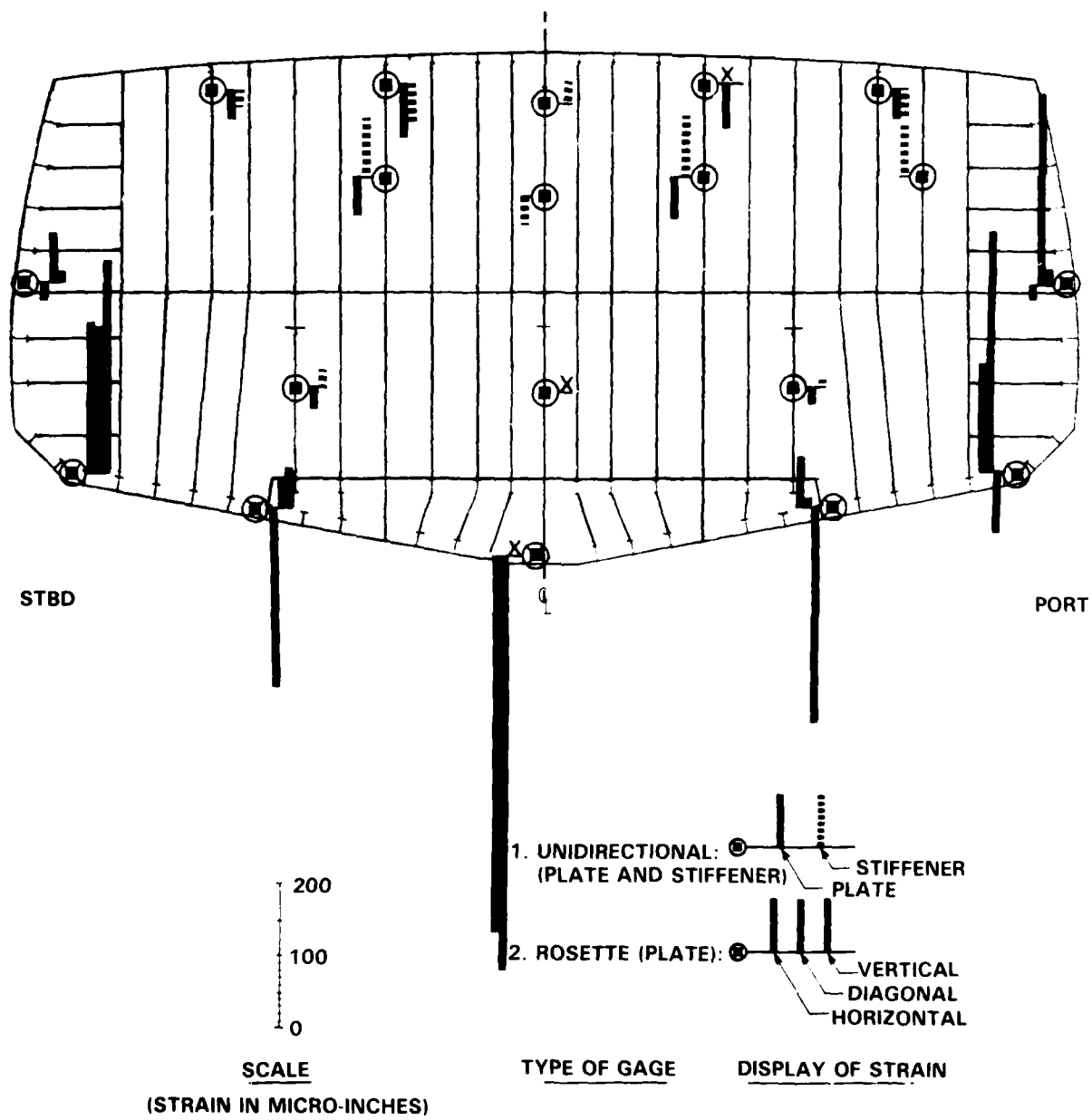


Figure C.29 - Plot of 100 Percent Vertical Sensitivity from Test Data of 9-22-77 for Bulkhead 108

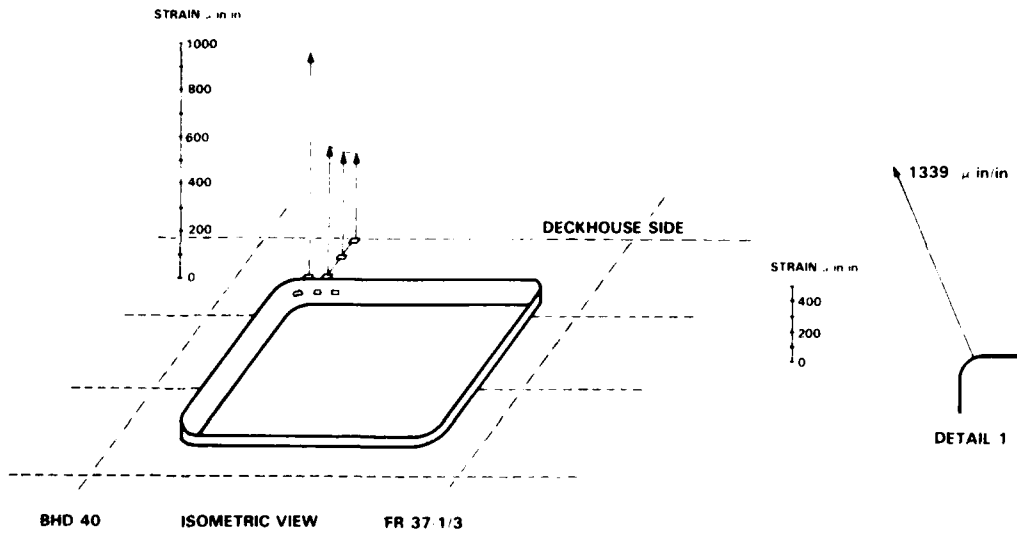
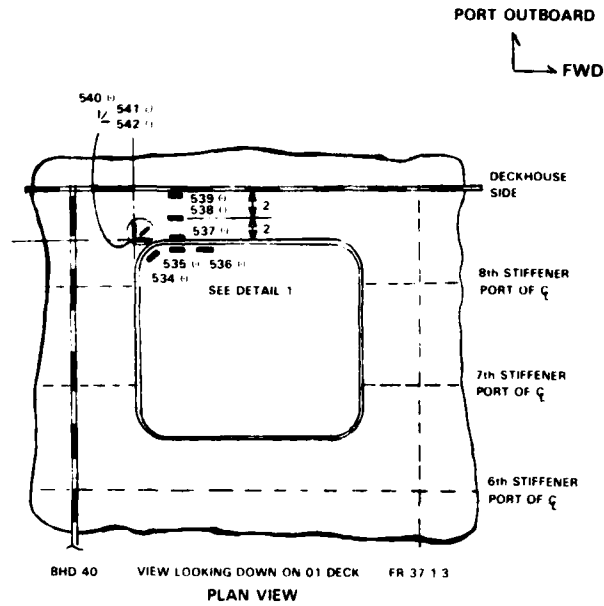


Figure C.30 - Maximum Measured Strain, 60 Degree Lag, O1 Deck Hole at Frame 38 1/2, Port Side

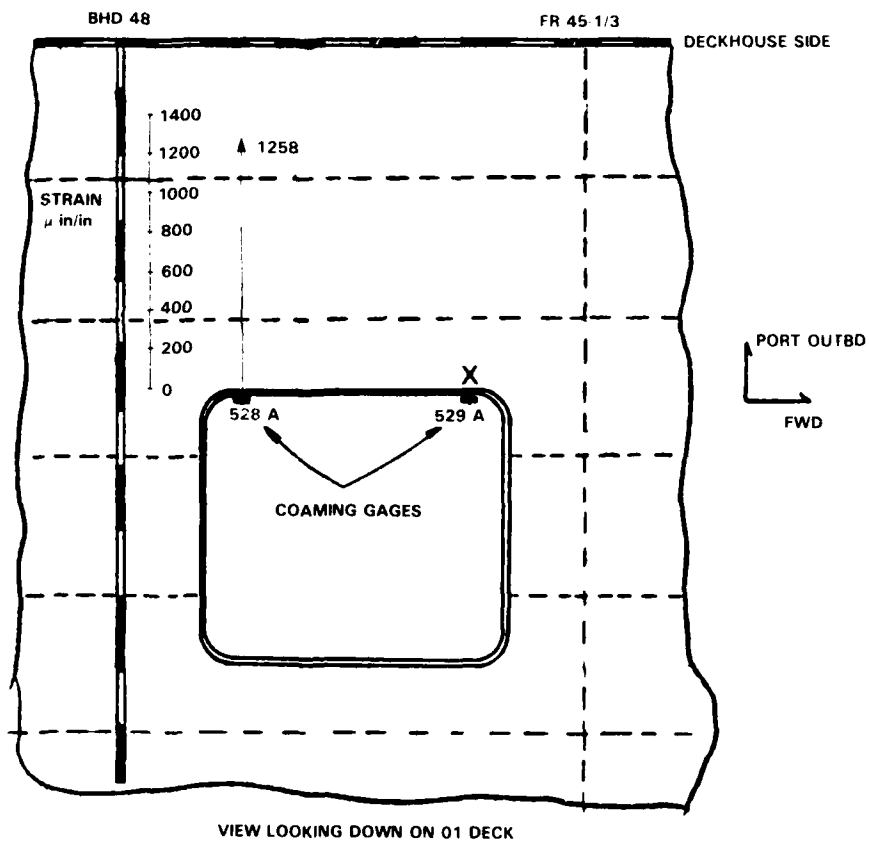


Figure C.31 - Maximum Measured Strain, 60 Degree Lag, O1 Deck Hole at Frame 46, Port Side

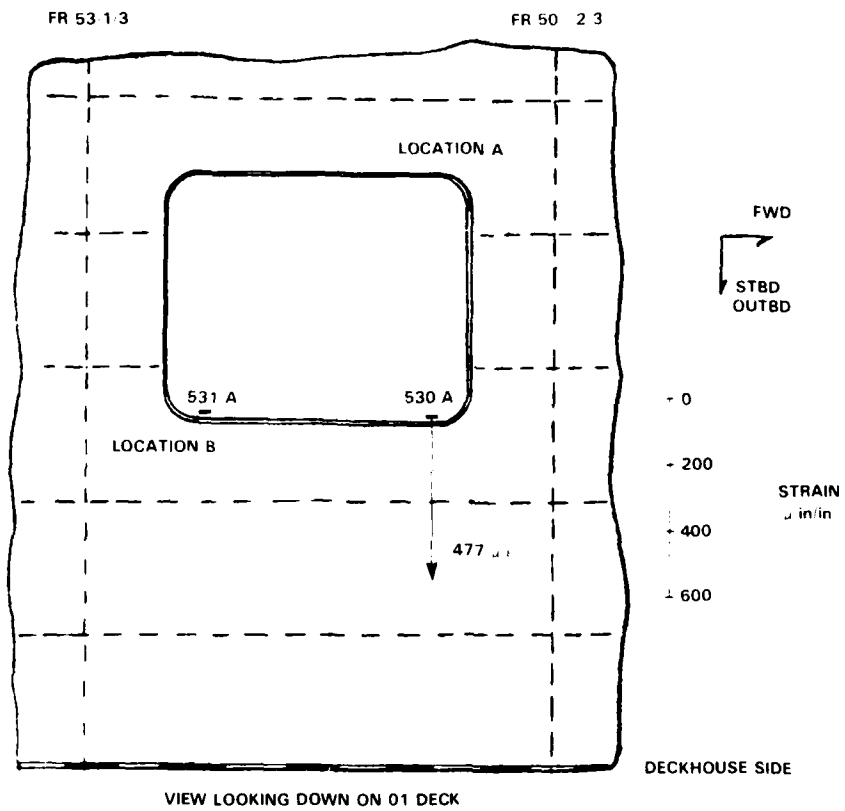


Figure C.32 - Maximum Measured Strain, 60 Degree Lag, 01 Deck Hole at Frame 52, Starboard Side

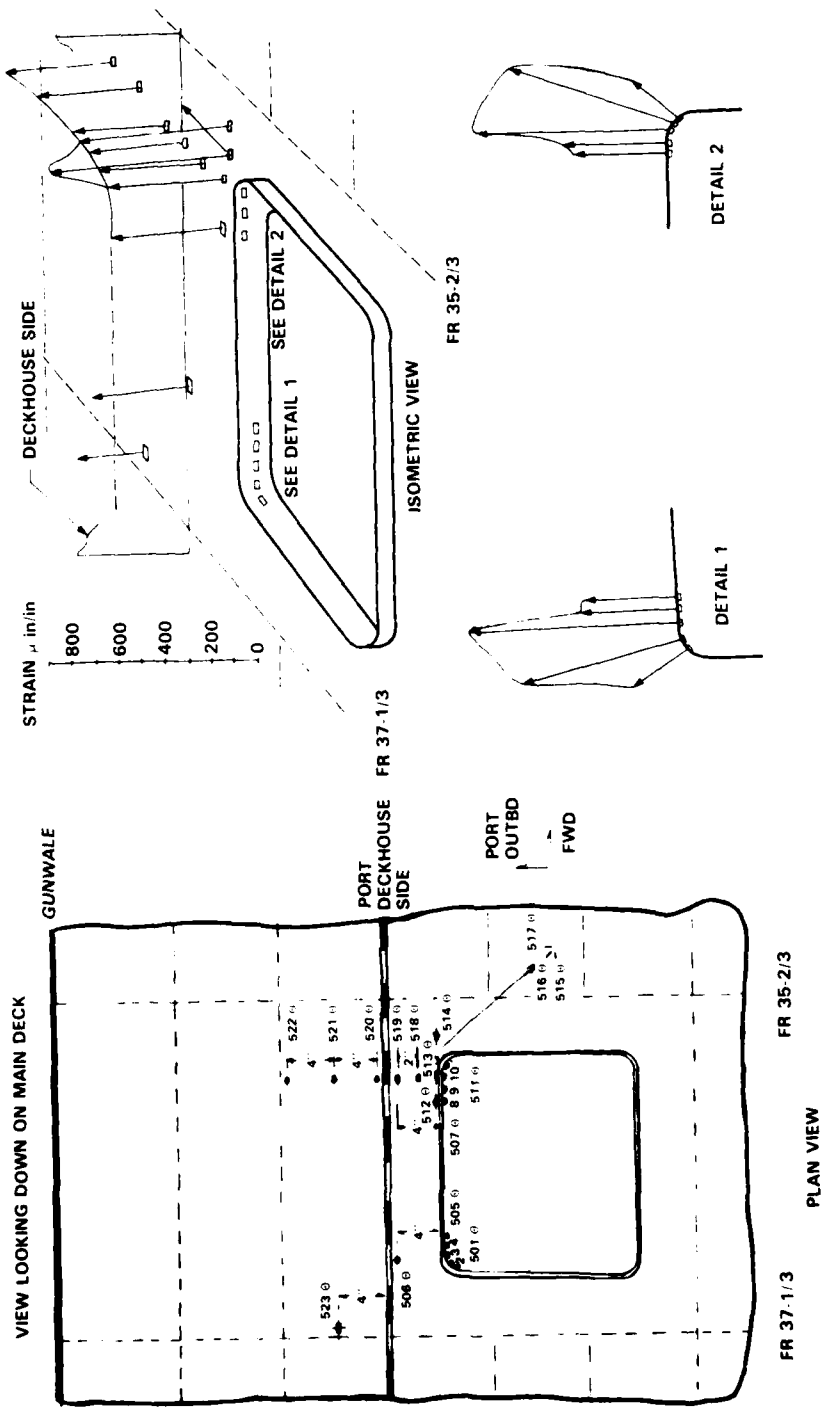


Figure C.33 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 36, Port Side

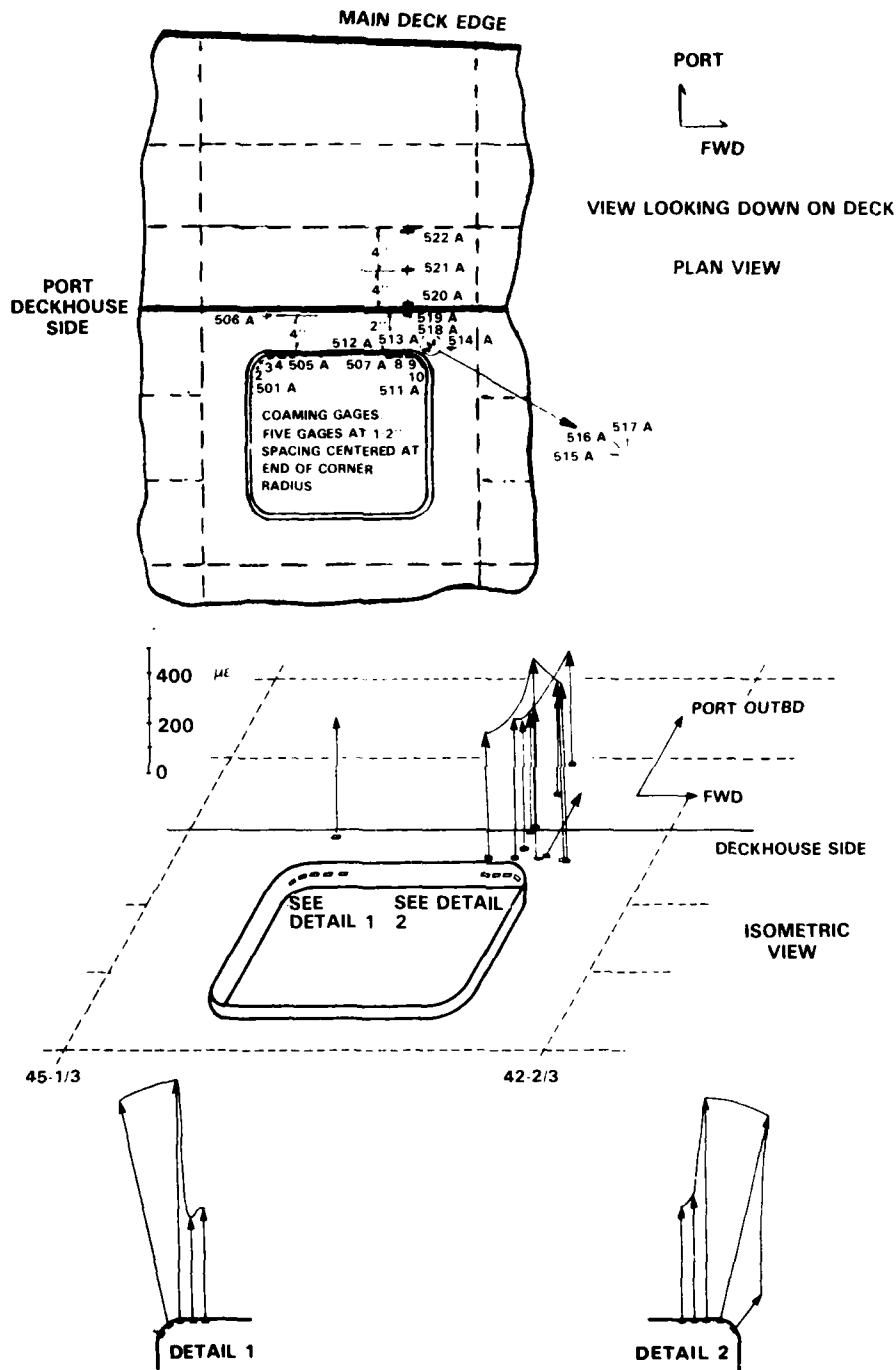


Figure C.34 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 44, Port Side



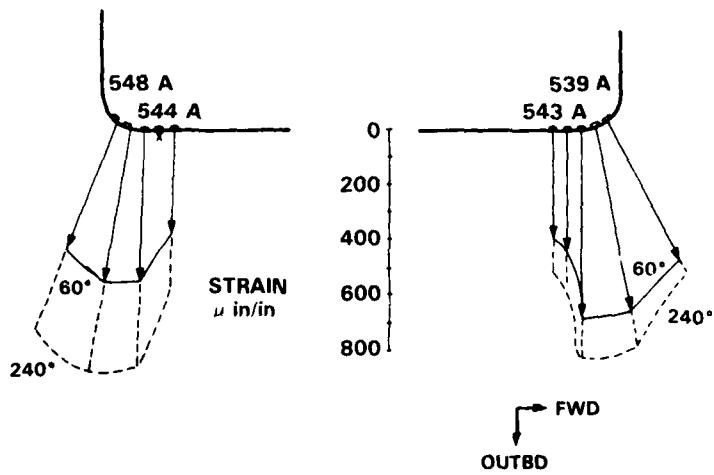
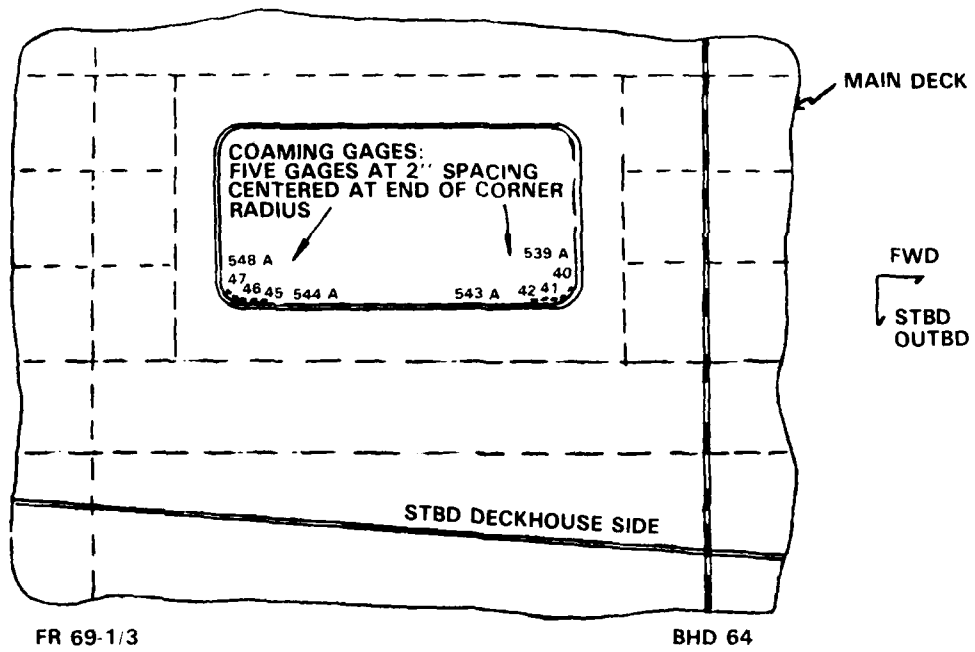


Figure C.35 - Maximum Measured Strain, 240 Degree Lag,  
Main Deck Hole at Frame 66 1/2, Starboard Side

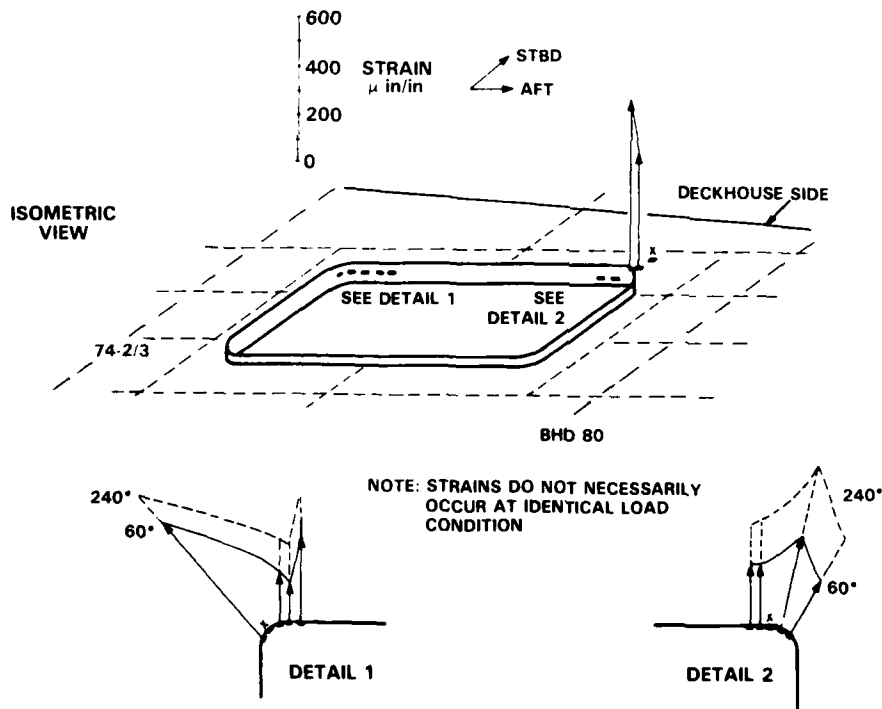
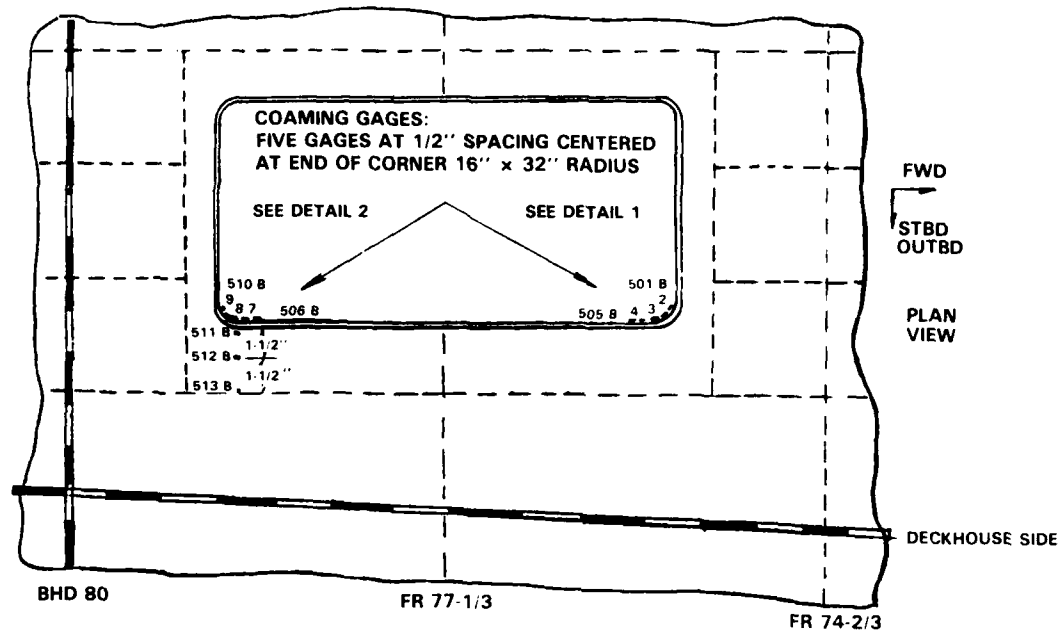


Figure C.36 - Maximum Measured Strain, 240 Degree Lag, Main Deck Access Hole at Frame 77 1/3, Starboard Side

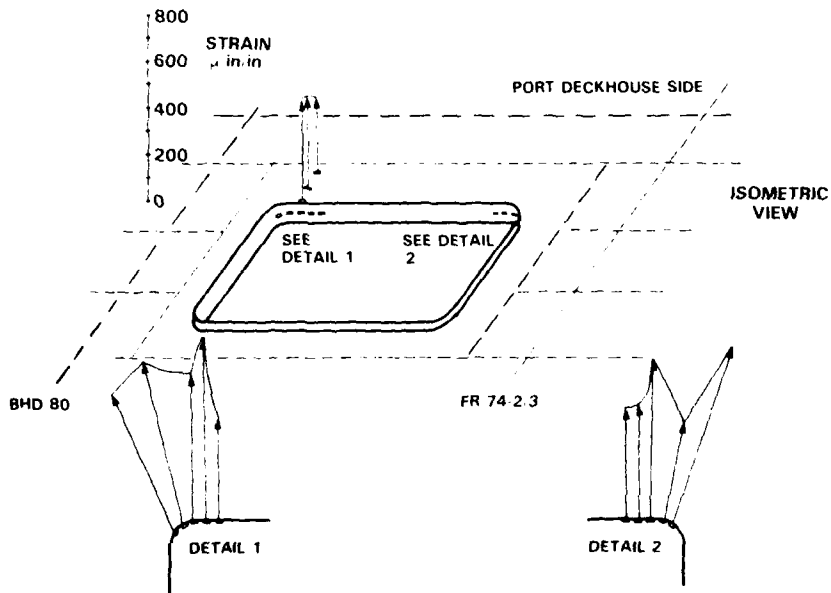
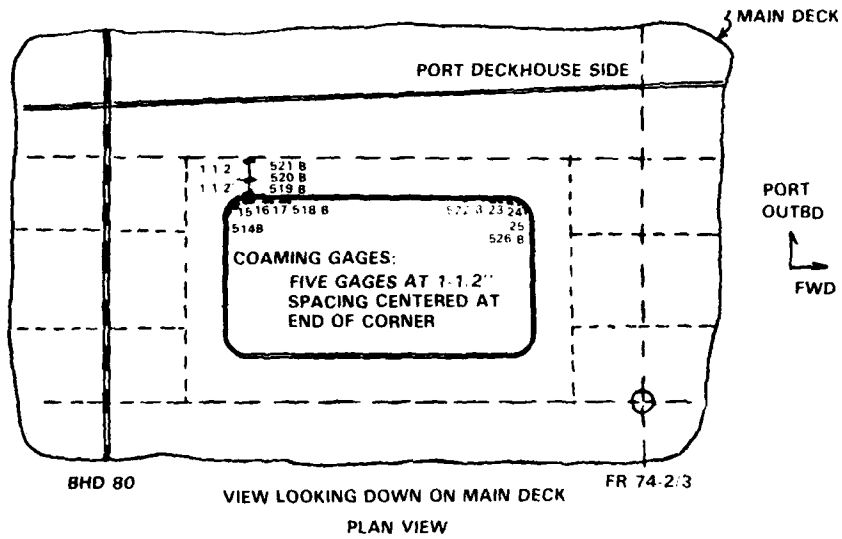
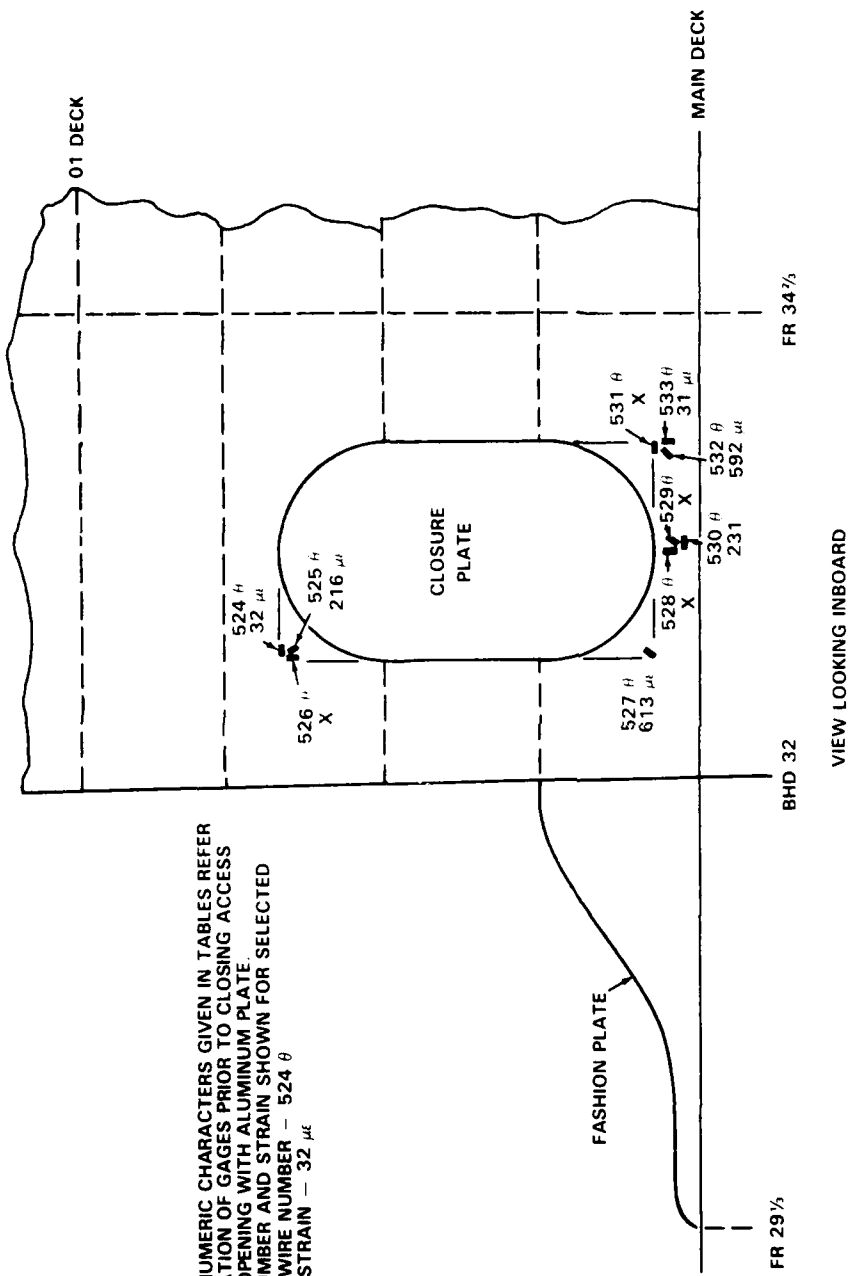


Figure C.37 - Maximum Measured Strain, 60 Degree Lag, Main Deck Access Hole at Frame 77 1/3, Port Side



- NOTE:
1. ALPHA-NUMERIC CHARACTERS GIVEN IN TABLES REFER TO LOCATION OF GAGES PRIOR TO CLOSING ACCESS HATCH OPENING WITH ALUMINUM PLATE.
  2. WIRE NUMBER AND STRAIN SHOWN FOR SELECTED GAGES: WIRE NUMBER - 524 H  
STRAIN - 32 με

Figure C.38 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 33, Port Side

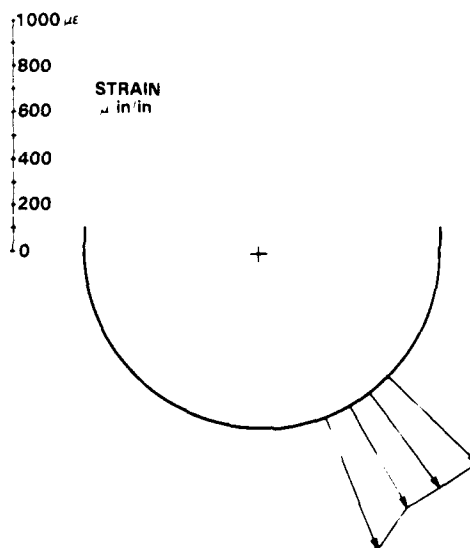
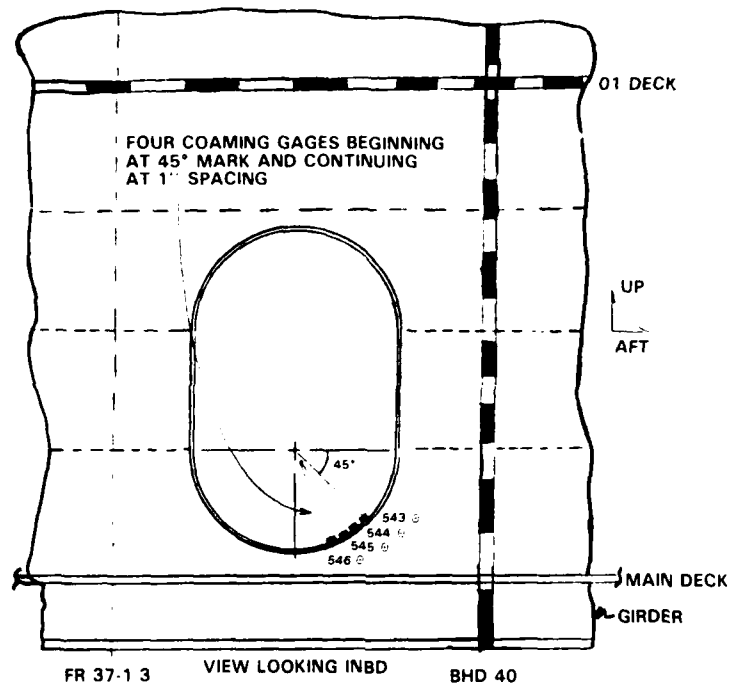


Figure C.39 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 39, Port Side

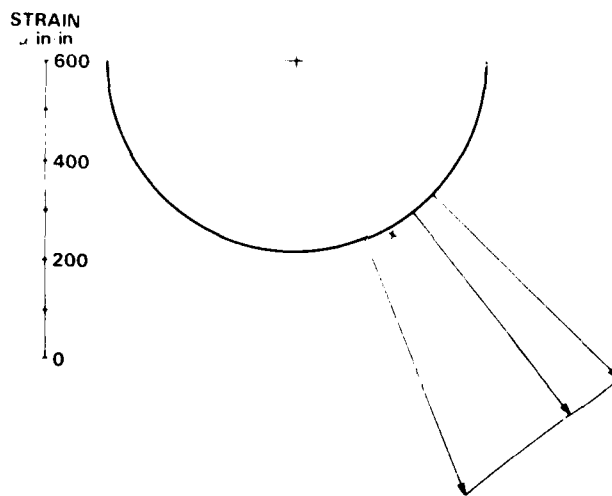
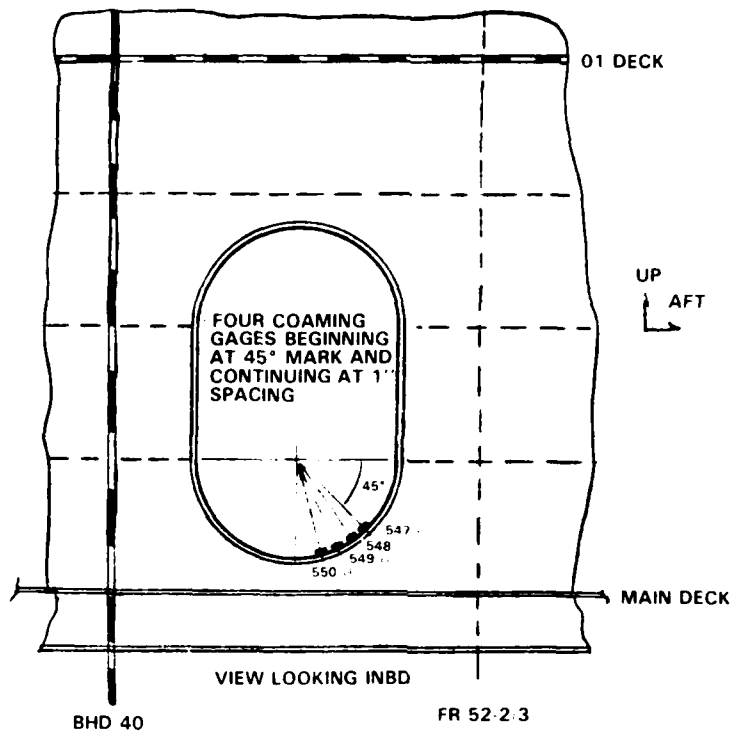


Figure C.40 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 41 1/2, Port Side

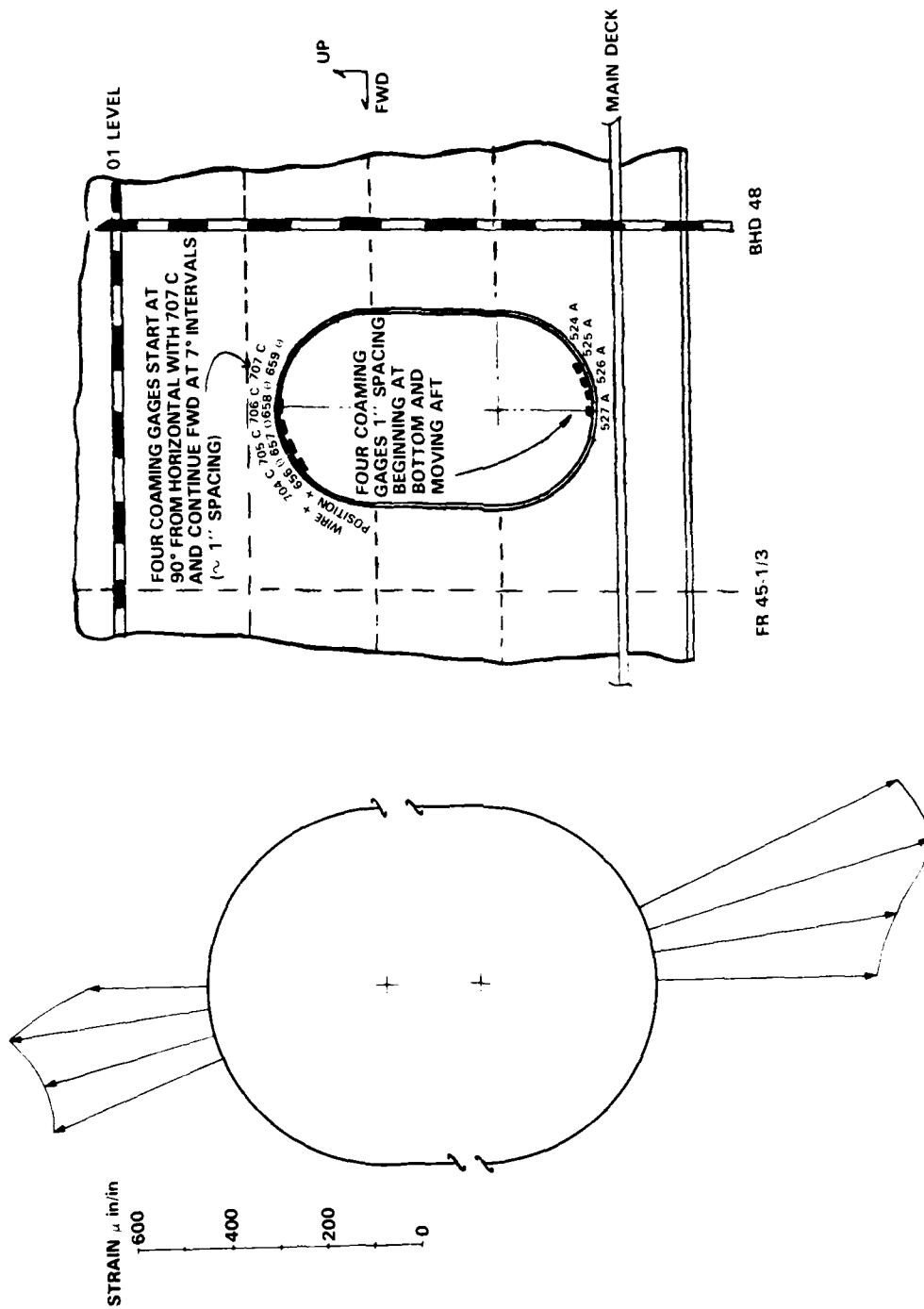


Figure C.41 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 46, Port Side

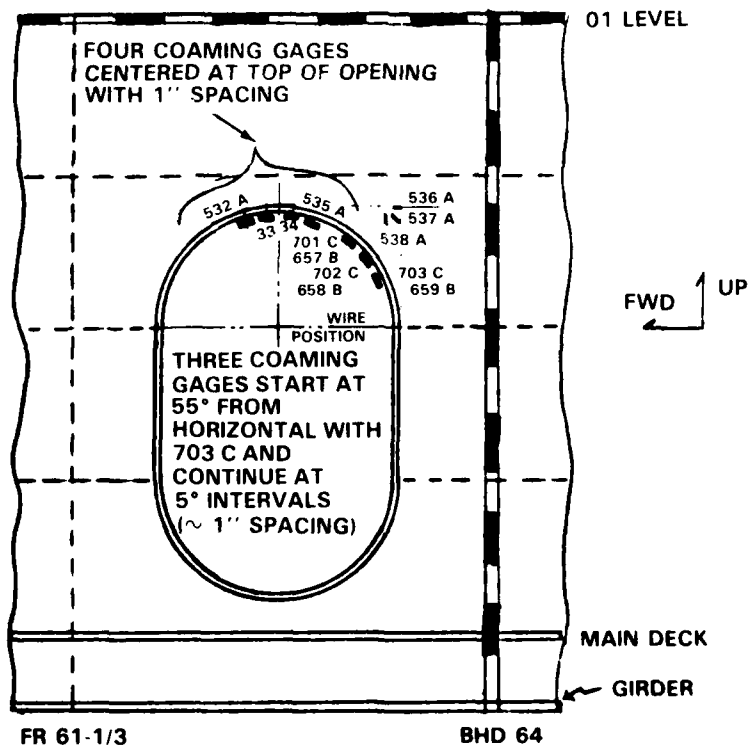
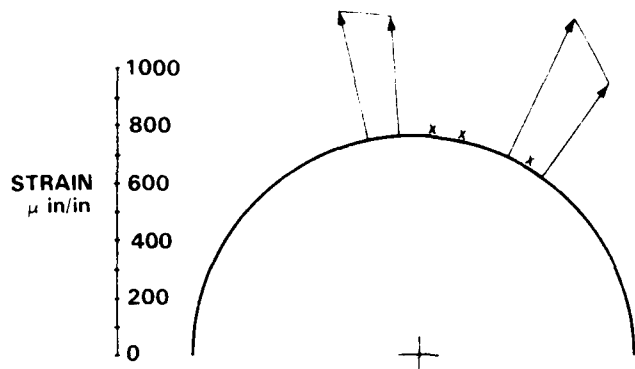


Figure C.42 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 62 1/2, Port Side



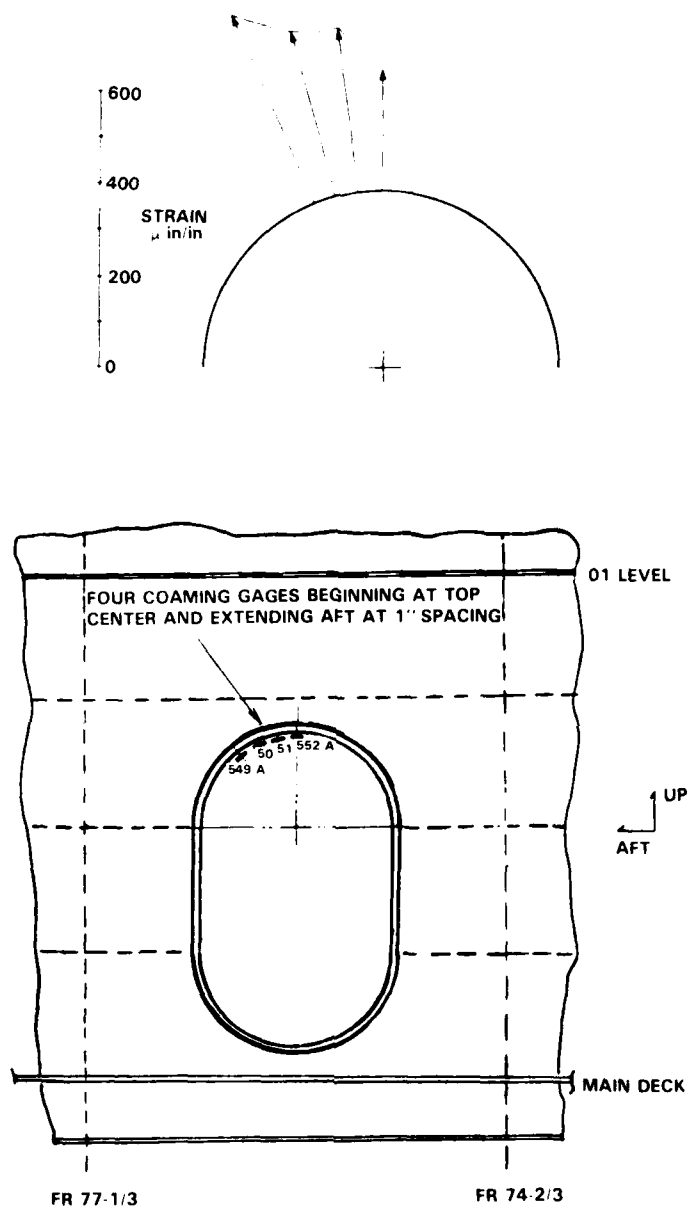


Figure C.43 - Maximum Measured Strain, 240 Degree Lag, Deckhouse Side Opening at Frame 76, Starboard Side

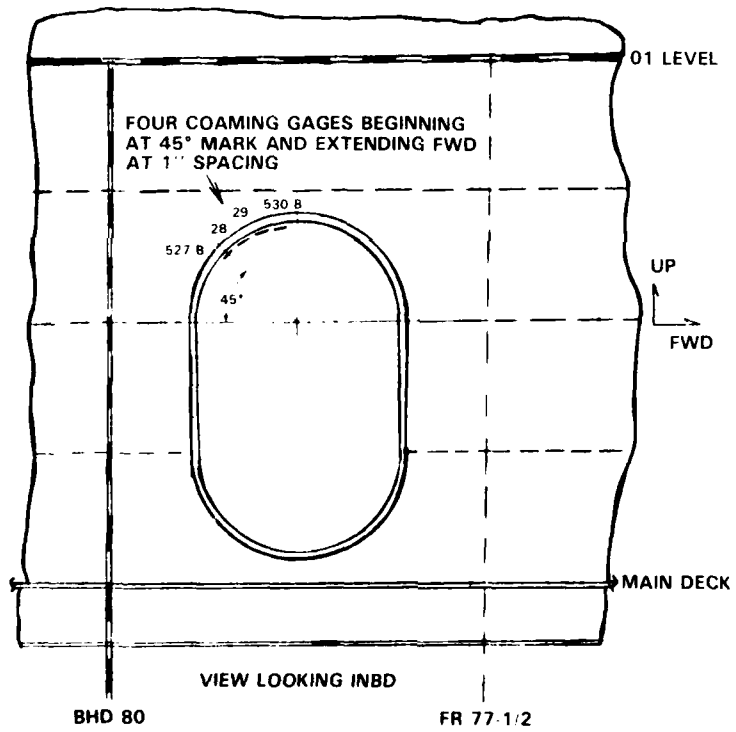
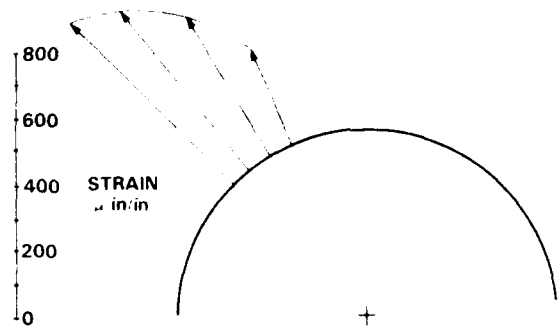


Figure C.44 - Maximum Measured Strain, 60 Degree Lag, Deckhouse Side Opening at Frame 78 1/2, Starboard Side

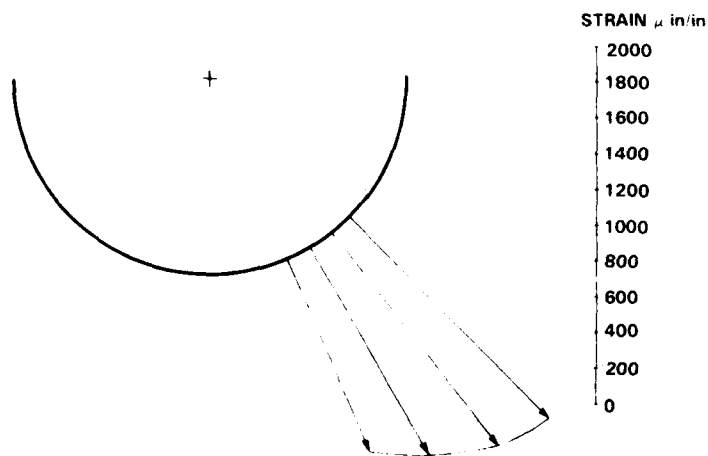
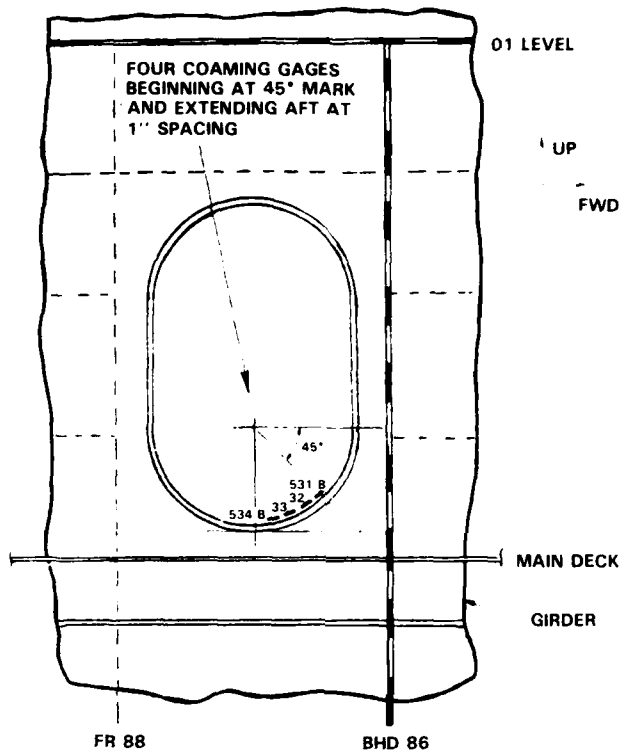


Figure C.45 - Maximum Measured Strain, 240 Degree Lag, Deckhouse Side Opening at Frame 87, Starboard Side

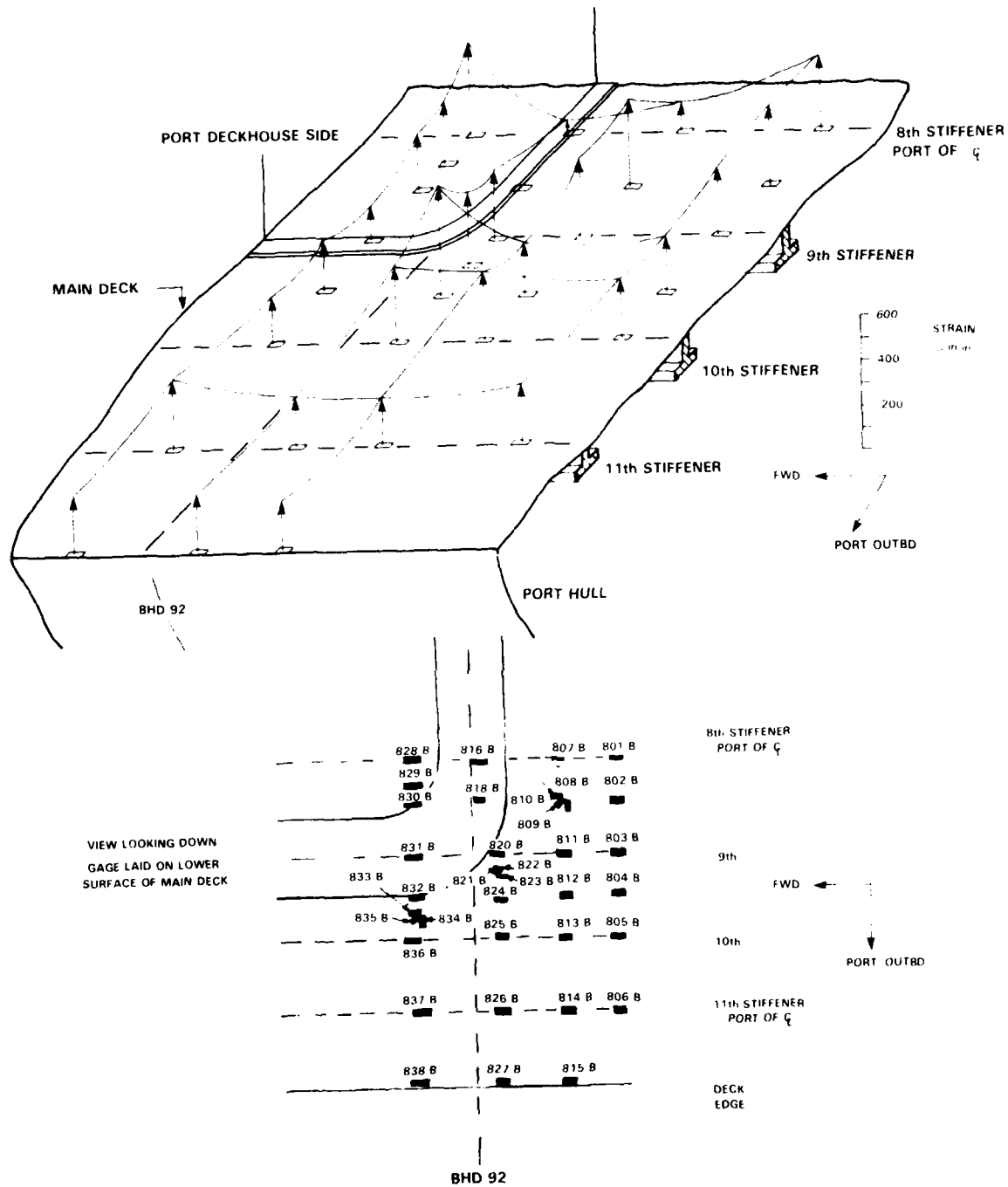


Figure C.46 - Port Corner of Deckhouse at Bulkhead 92, Vertical Sensitivity (9-22-77)

## APPENDIX D

### CALCULATED LOADS, MEASURED LOADS AND DEFLECTIONS, AND BENDING MOMENT PLOTS

This appendix contains, in tabular form, summaries of (1) the calculated loads which were to be applied to the ASEM, (2) the loads as recorded during the four tests chosen for data analysis, (3) moment plots derived from the recorded loads of the four tests, and (4) measured deflections which were recorded during the four tests.

The vertical loads are given in Table D.1. Both vertical hog and sag loads at each load increment are given. Note the hog or sag STILLWATER + ZERO STRESS values are at the same offset from ZERO STRESS. Also, for example, at 40 keel, even though the load at 80% was 11,090 lb in the sag condition and was -54,906 lb in the hog condition, the change ( $\Delta$ ) in load from zero + stillwater is equal (32,998 lb). The 90 or 100% loads are not included since the ASEM was not loaded to these magnitudes during the static tests. Also note that the rows associated with starboard LOAD CELL(s) are blank because no loads were applied during the vertical-loads-only tests.

The lateral loads are given in Table D.2. Both lateral hog and sag loads at each increment are given. The sag and hog load values at each load increment are equivalent in magnitude and opposite in sign. A lateral sag and hog condition is defined such that a hydraulic actuator/load cell arrangement will produce the same sign on the "readout" as would a vertical hog or sag condition (see Figure D.1). The rows associated with vertical load cells are left blank after the zero and stillwater loads are given. When lateral loads only were applied to the model, it was loaded vertically until the stillwater condition was reached and then lateral loads were applied.

Table D.3 summarizes the calculated loads to be applied to the model for the combined vertical and lateral loading test with a 60° phase shift. Loads are applied in a sinusoidal fashion (necessary for the cyclic tests), thus allowing the phase shift. The zero, stillwater, and vertical incremental loads are the same as the

vertical loading test but the lateral loads are derived from the equation  $P_2 = P_{\max}/2 \sin (\omega t - 60^\circ)$ . That means, when a vertical load is applied at a particular load frame and load level (10%, 20%, etc.), a corresponding lateral load is applied whose magnitude is determined from the above relation.

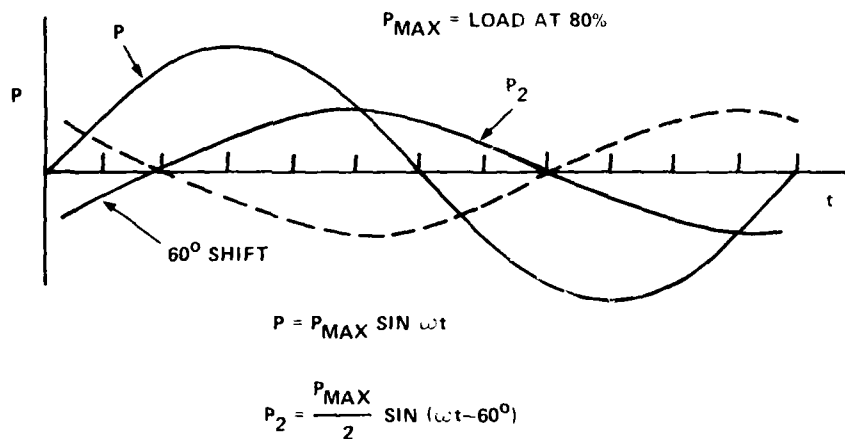


Table D.4 is a summary of the loads for the combined vertical and lateral loading test with a  $240^\circ$  phase shift. The explanation of this table is similar to that of Table D.3. Basically, the maximum lateral loads do not occur at the same time as the maximum vertical loads.

Tables D.5, D.6, D.7, and D.8 are tabular summaries of the loads which were monitored and recorded during the vertical test of 9/22/77, the lateral test of 10/28/77, the  $60^\circ$  combined loading test of 10/14/77, and the  $240^\circ$  combined loading test of 10/26/77, respectively. The UNLOCK load readings are obtained with the hydraulic system depressurized. Except for fixed support loads, these values will nominally be low. The system is then pressurized; next, ZERO and/or ZERO TEST conditions are read. The lateral loads should have been close to zero in magnitude; if not, they were adjusted accordingly and then recorded. Loads were then applied to produce a stillwater BM in the model. Up to this point, the loads for Tables D.5 through D.8 were similar in magnitude. However, the remainder of the loading conditions of the four tests were different. Table D.5 shows the loads read on all channels during the vertical-only-loading test. The lateral loads were nominally

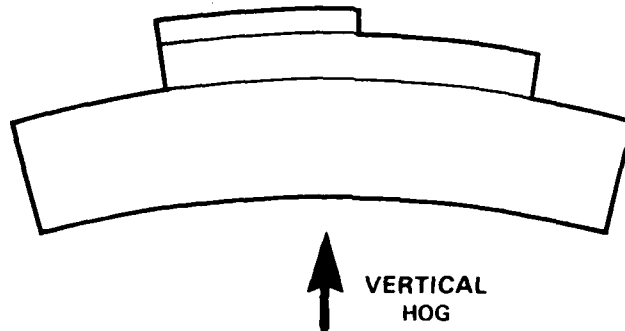
near zero, and only the vertical readings showed significant changes. Table D.6 shows the loads read on all channels during the lateral-only-loading test. The vertical readings were nominally near the stillwater readings throughout the test, and the lateral readings indicated the load increments associated with load levels. There are a total of 30 load conditions, not including the stillwater load condition.

Tables D.7 and D.8 are probably the most significant in that the loads shown here are the same as those during the cyclic tests. The load values recorded in the lateral offset column require a brief explanation. The vertical loads are similar to loads of the vertical test, and the lateral test stillwater loads. However, the lateral loads are now representative of the phase shift discussed earlier. During the test, as the model was loaded, any load magnitude adjustment (if required) was done at that time.

Figures D.2 through D.9 are ASEM moment plots derived from the loads applied to the model during the associated tests. The magnitude of the maximum moment of the lateral-loads-only test (Figures D.3 and D.4) is one-half that of the vertical-loads-only test (Figure D.1) ( $4.3 \times 10^6$  ft-lb versus  $2.1 \times 10^6$  ft-lb). In general, the applied BM were very close to the calculated bending moments as seen in Figure D.1.

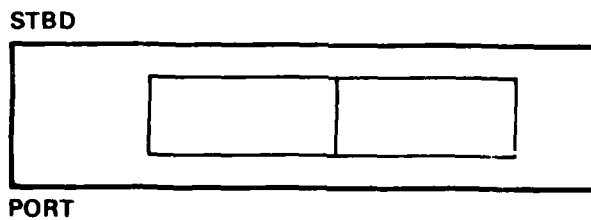
Tables D.9 through D.12 are compilations of the absolute deflections as measured during Tests 1 through 4, respectively. The deflection plots in Figures 11 through 14 are deflections relative to stillwater. During Test 1, only vertical loads were applied, thus deflection readings of the starboard linear potentiometers showed little or no change at each load increment. During Test 2, after the stillwater loads were applied to the model, only lateral loads were subsequently applied, thus deflection readings of the keel linear potentiometers showed little or no change at each load increment. The deflections in Tables D.11 and D.12 were continuously changing as both lateral and vertical loads were applied to the model. Any deflection position, other than at Bulkheads 24 and 86, which showed little or no change in displacement during these two tests, was an indication that the instrumentation was probably malfunctioning.

PORT SIDE  
OF ASEM



MIDSHIP VERTICAL ACTUATOR PUSHING UP -77 kips AT 80%

LOOKING  
DOWN ON  
ASEM



STBD

PORT



MIDSHIP LATERAL ACTUATOR PUSHING TO PORT -38 kips AT 80%

Figure D.1 - Vertical and Lateral Hog Condition



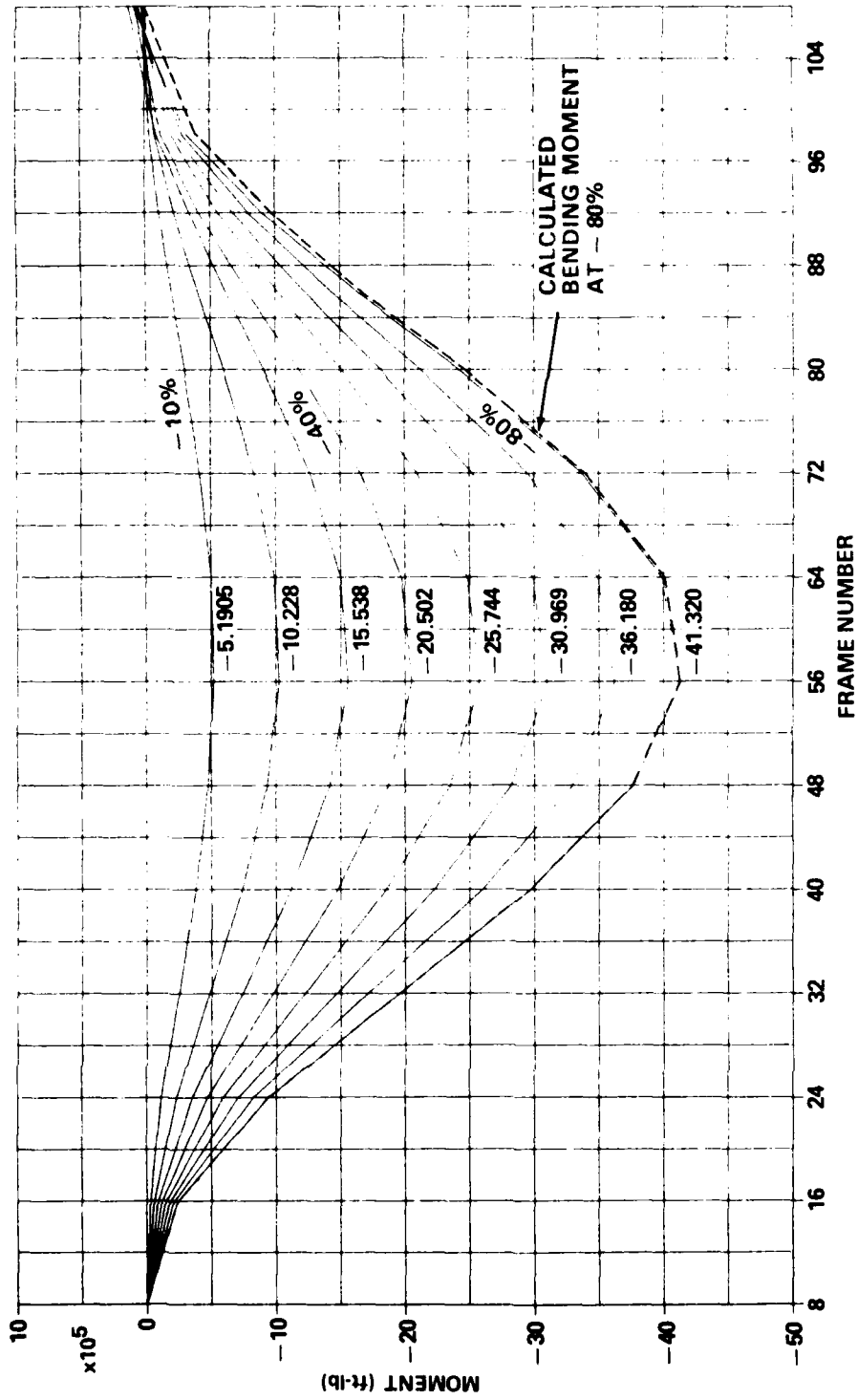


Figure D.2 - ASEM Moment Plots of Test 1 (-10 Percent to -80 Percent)

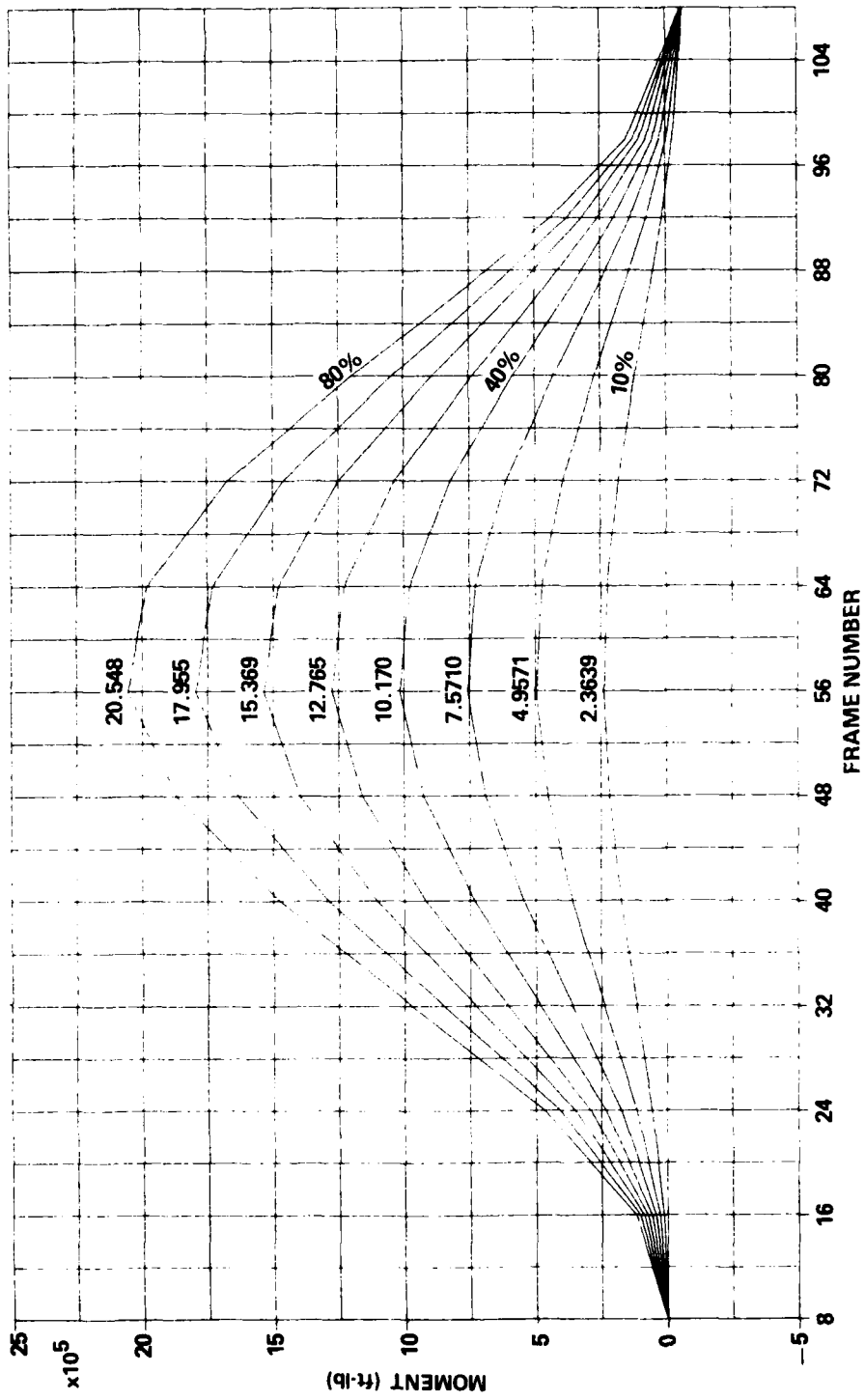


Figure D.3 - ASEM Moment Plots of Test 2 (10 Percent to 80 Percent)

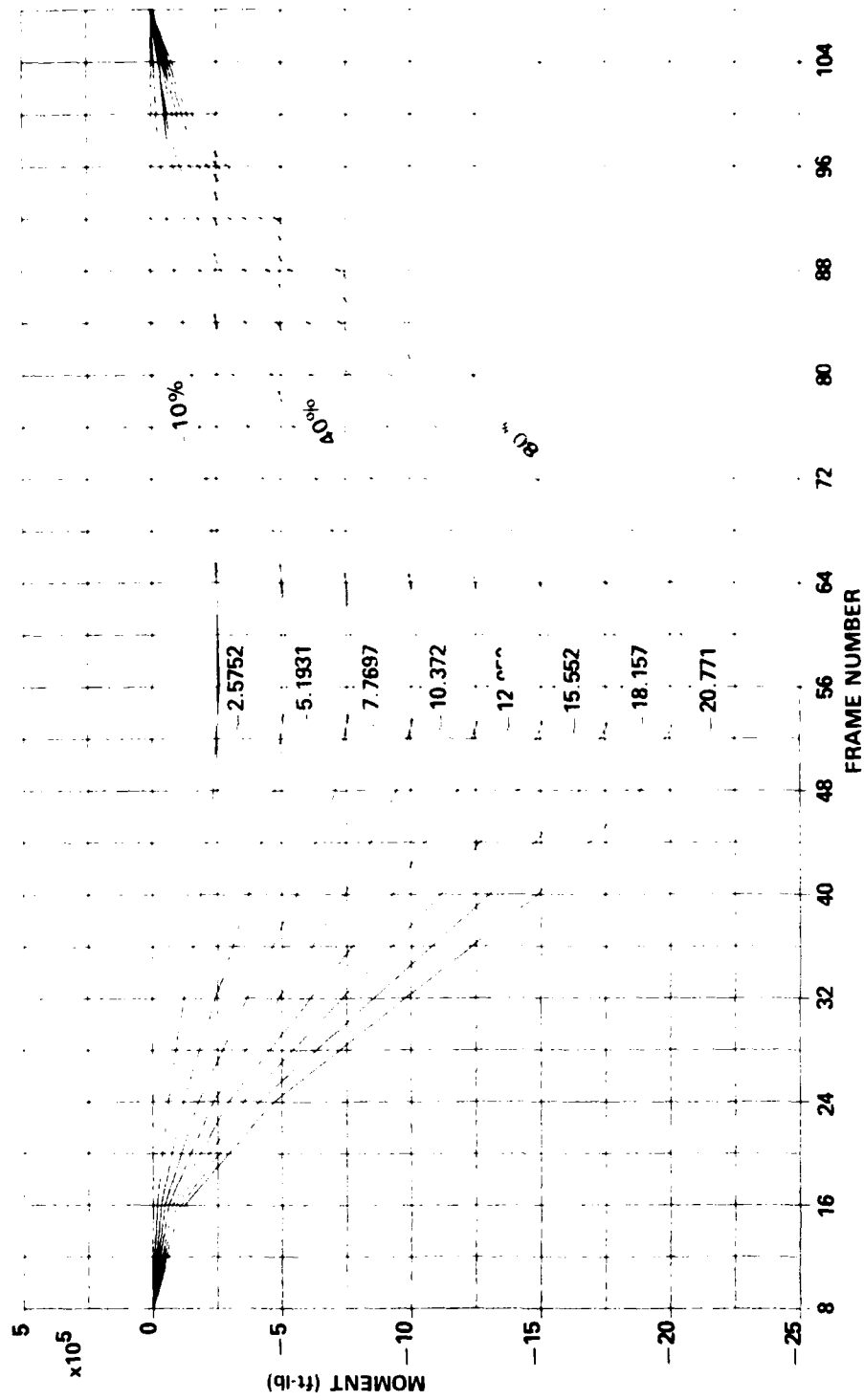


Figure D.4 - ASEM Moment Plots of Test 2 (-10 Percent to -80 Percent)

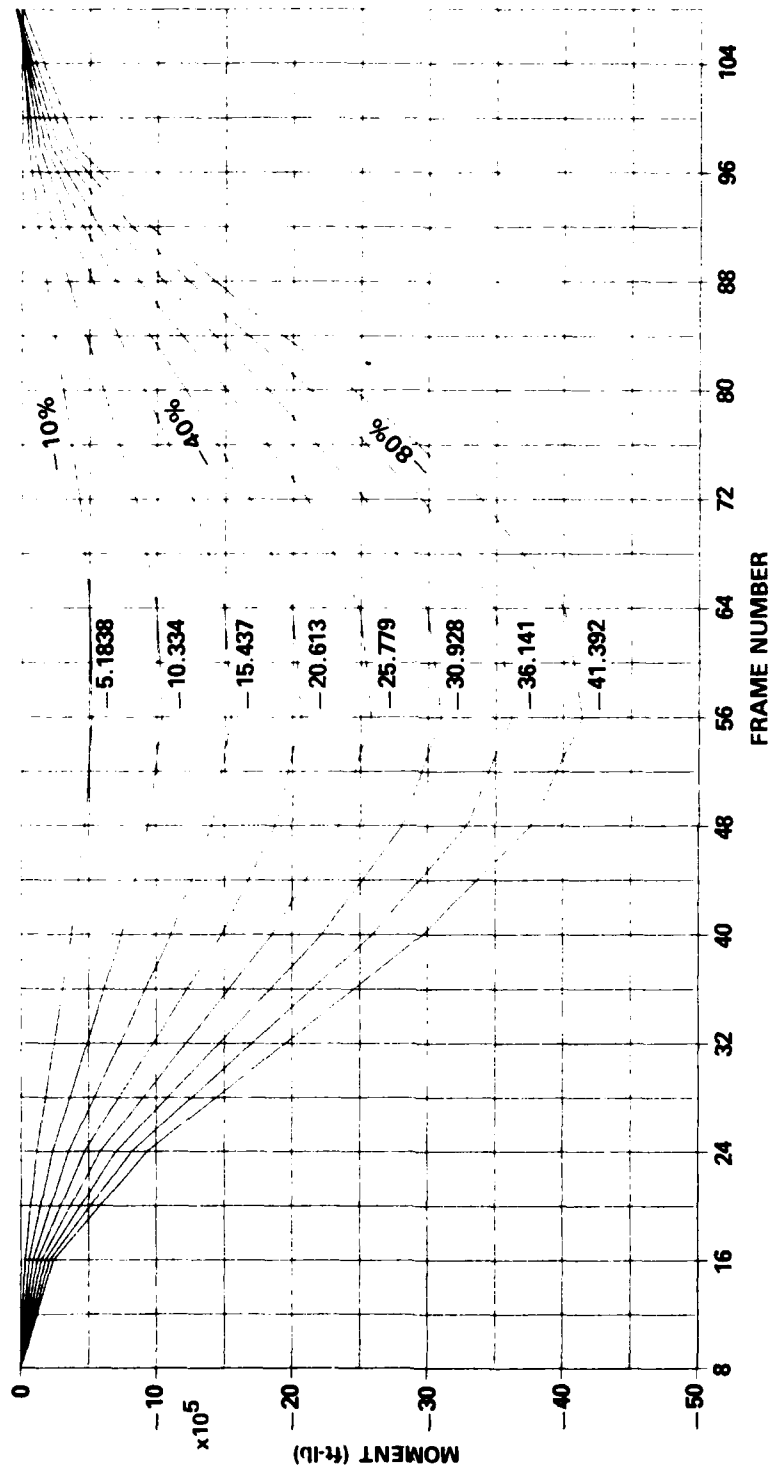


Figure D.5 - ASEM Moment Plots of Test 3, Vertical Moment (-10 Percent to -80 Percent)

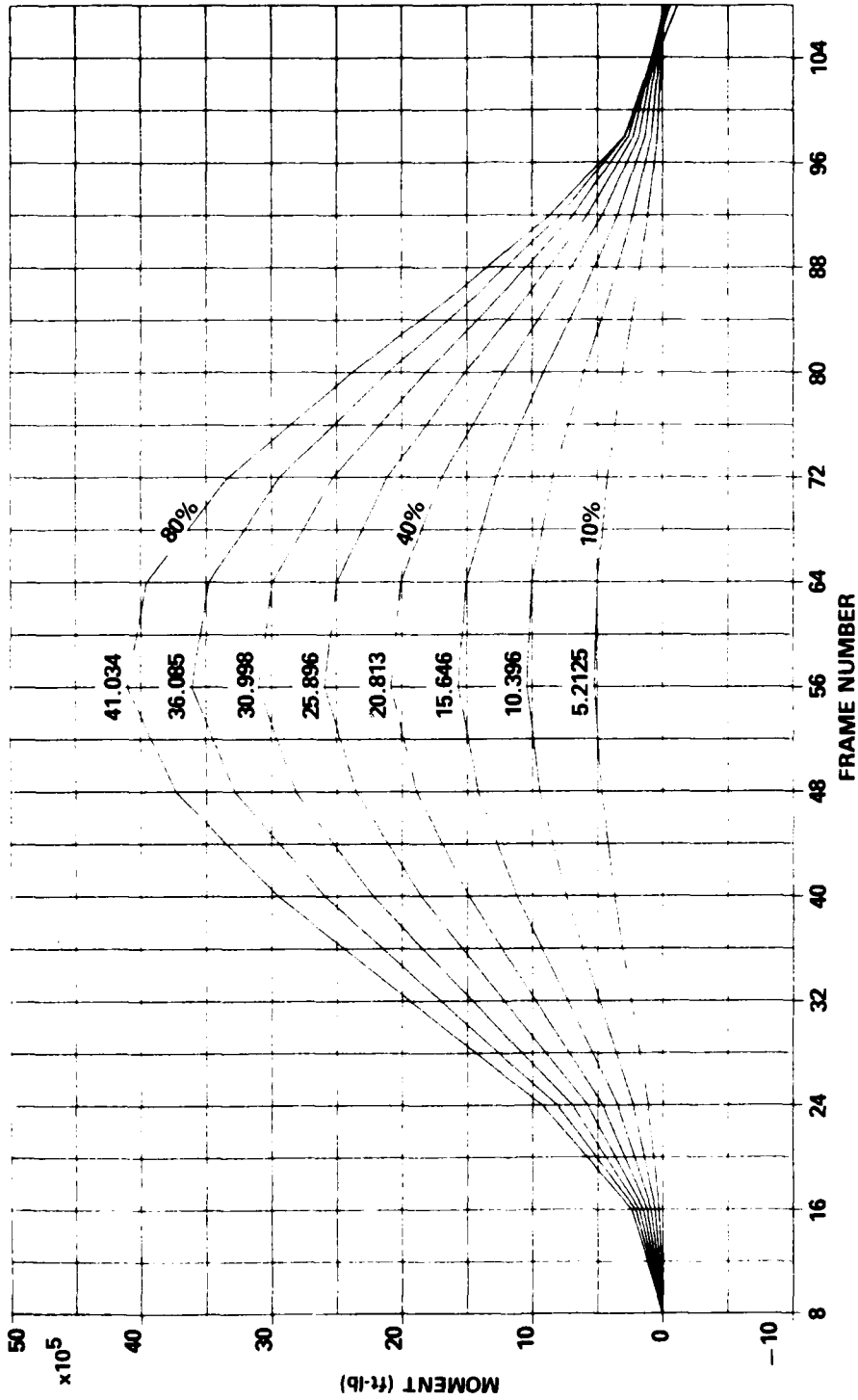


Figure D.6 - ASEM Moment Plots of Test 3, Vertical Moment  
(10 Percent to 80 Percent)

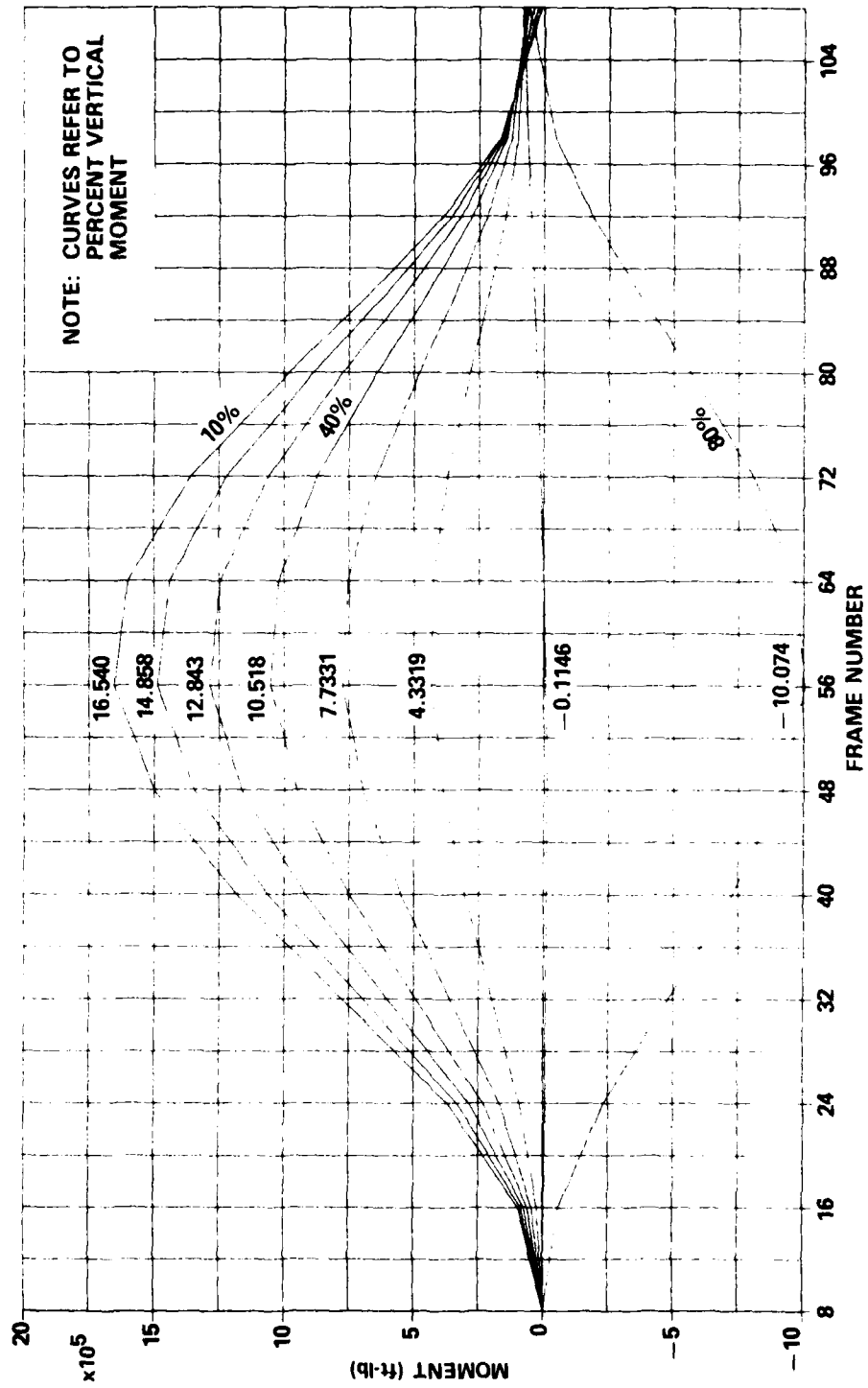


Figure D.7 - ASEM Moment Plots of Test 3, Lateral Moment Corresponding to 10 Percent through 80 Percent Vertical Moment

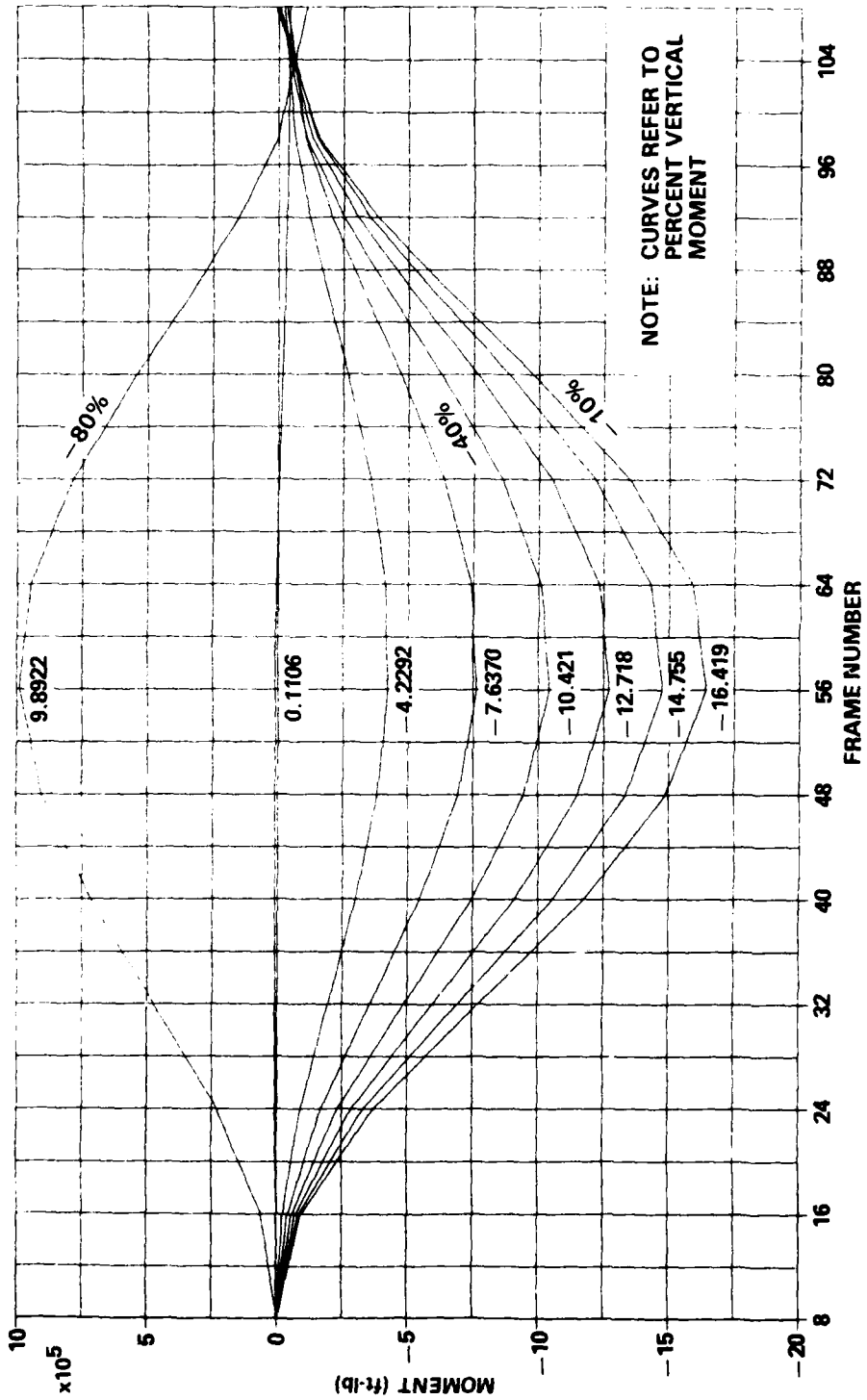


Figure D.8 - ASEM Moment Plots of Test 3, Lateral Moment Corresponding to -10 Percent through -80 Percent Vertical Moment

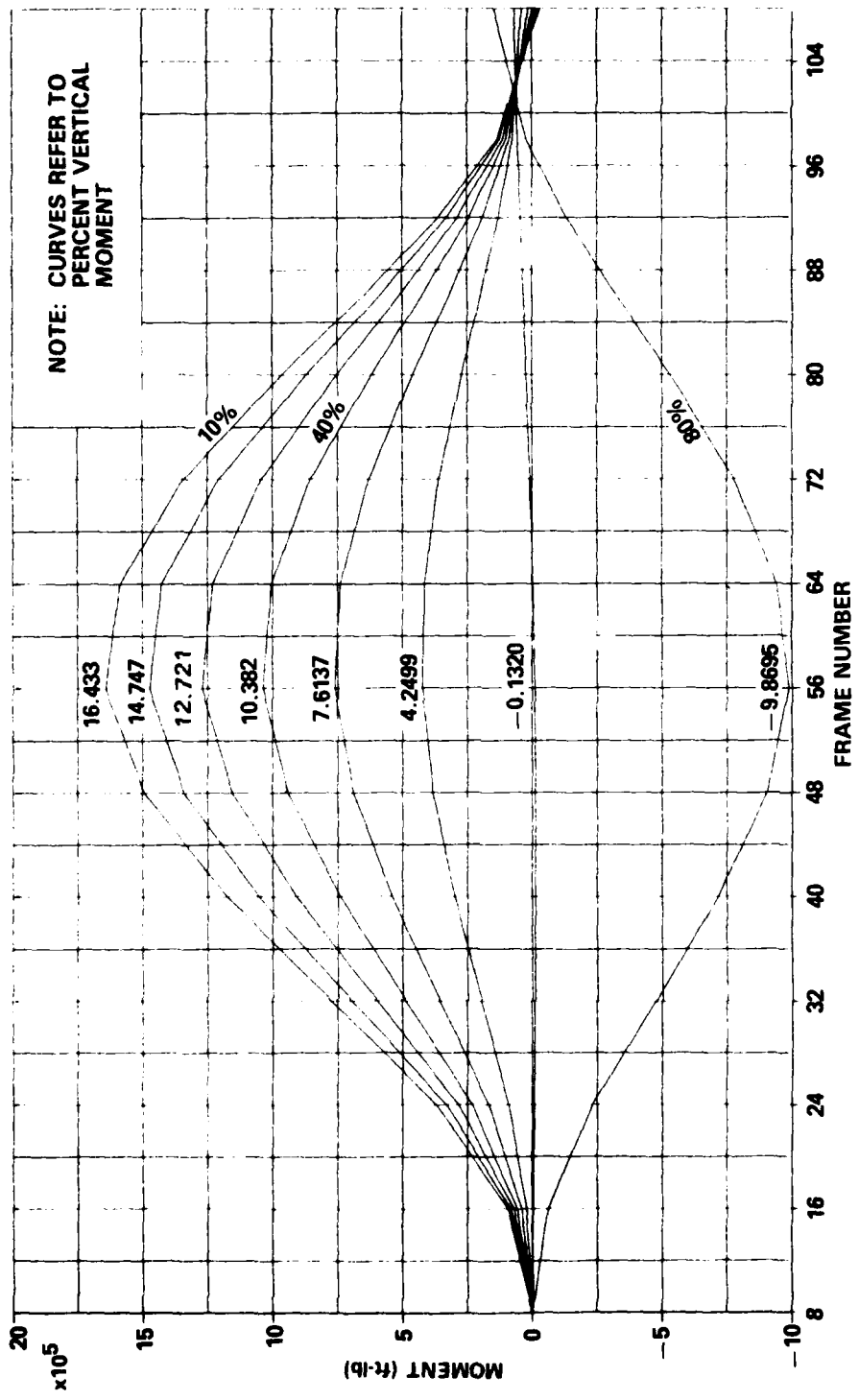


Figure D.9 - ASEM Moment Plots of Test 4, Lateral Moment Corresponding to 10 Percent through 80 Percent Vertical Moment



TABLE D.1 - ASEM STATIC TEST 1--CALCULATED LOADS

		Part A Load Condition, SAC (lb)												
BATCO No.	Load Cell	Zero Stress	Still Water + Zero Stress	Percent Load						70% +	80% +			
				10% +	20% +	30% +	40% +	50% +	60% +					
5	108 Stbd													
6	108 Keel	-3,372	4,139	-1,879	-7,897	-13,920	-19,934	-25,952	-31,979	-37,983	-44,006			
7	98 Stbd													
8	98 East	-5,986	-881	-4,971	-9,062	-13,155	-17,242	-21,332	-25,429	-29,509	-33,603			
9	98 West	-5,986	-881	-4,971	-9,062	-13,155	-17,242	-21,332	-25,429	-29,509	-33,603			
10	92 Stbd													
11	92 Keel	-11,547	-6,726	-10,589	-14,451	-18,317	-22,177	-26,039	-29,908	-33,761	-37,627			
12	86 Stbd													
13	86 Keel	-12,144	-10,371											
14	80 Stbd													
15	80 Keel	-13,893	-16,203	-14,352	-12,502	-10,650	-8,801	-6,950	-5,096	-3,250	-1,398			
16	72 Stbd													
17	72 Keel	-13,319	-21,029	-14,851	-8,674	-2,491	3,682	9,859	16,046	22,209	28,392			
18	64 Stbd													
19	64 East	-7,120	-12,735	-8,235	-3,736	768	5,264	9,764	14,270	18,759	23,263			
20	64 West	-7,120	-12,735	-8,235	-3,736	768	5,264	9,764	14,270	18,759	23,263			
21	56 Stbd													
22	56 East	-7,690	-13,693	-8,883	-4,074	739	5,546	10,355	15,172	19,970	24,784			
23	56 West	-7,690	-13,693	-8,883	-4,074	739	5,546	10,355	15,172	19,970	24,784			
24	48 Stbd													
25	48 Keel	-14,412	-24,202	-16,357	-8,513	-662	7,177	15,022	22,878	30,704	38,556			
26	40 Stbd													
27	40 Keel	-16,760	-21,908	-17,783	-13,659	-9,531	-5,409	-1,284	2,847	6,962	11,090			
28	24 Stbd													
29	24 East	-5,885	-2,024											
30	24 West	-5,885	-2,024											
31	16 Stbd													
32	16 East	-4,536	757	-3,484	-7,725	-11,969	-16,207	-20,448	-24,695	-28,926	-33,171			
33	16 West	-4,536	757	-3,484	-7,725	-11,969	-16,207	-20,448	-24,695	-28,926	-33,171			
34	8 Stbd													
35	8 Keel	-2,790	2,783	-1,683	-6,148	-10,617	-15,079	-19,545	-24,017	-28,479	-32,941			
36	8 Surge													

TABLE D.1 (Continued)

BAFCO No.		Load Cell	Part B Load Condition, HOG (lb)										
			Zero Stress		Percent Load								Still Water + Zero Stress
			Zero Stress	10% ↑	20% ↑	30% ↑	40% ↑	50% ↑	60% ↑	70% ↑	80% ↑		
5	108 Stbd			10,157	16,175	22,198	28,212	34,230	40,257	46,261	52,284		
6	108 Keel	-3,372	4,139										
7	98 Stbd			3,209	7,300	11,393	15,480	19,570	23,667	27,747	31,841		
8	98 East	-5,986	-881										
9	98 West	-5,986	-881										
10	92 Stbd			-2,863	999	4,865	8,725	12,587	16,456	20,309	24,175		
11	92 Keel	-11,547	-6,726										
12	86 Stbd			-12,144	-10,371								
13	86 Keel	-12,144	-10,371										
14	80 Stbd			-13,893	-16,203								
15	80 Keel	-13,893	-16,203										
16	72 Stbd			-27,207	-33,384								
17	72 Keel	-13,319	-21,029										
18	64 Stbd			-17,235	-21,735								
19	64 East	-7,120	-12,735										
20	64 West	-7,120	-12,735										
21	56 Stbd			-18,503	-23,312								
22	56 East	-7,690	-13,693										
23	56 West	-7,690	-13,693										
24	48 Stbd			-32,047	-39,842								
25	48 Keel	-14,412	-24,202										
26	40 Stbd			-26,033	-30,158								
27	40 Keel	-16,760	-21,908										
28	24 Stbd			-5,885	-2,024								
29	24 East	-5,885	-2,024										
30	24 West	-5,885	-2,024										
31	16 Stbd			4,998	9,239	13,483	17,721	21,962	26,209	30,440	34,685		
32	16 East	-4,536	757										
33	16 West	-4,536	757										
34	8 Stbd			7,249	11,714	16,183	20,645	25,111	29,583	34,051	38,507		
35	8 Keel	-2,790	2,783										
36	8 Surge												

TABLE D.2 - ASEM STATIC TEST 2--CALCULATED LOADS

BAFCO No.		Load Cell		Part A Load Condition, SAG (1b)										
				Zero Stress	Still Water + Zero Stress	Zero Test	Percent Load							
							10%	20%	30%	40%	50%	60%	70%	80%
5	108 Stbd	0	0		3,009	6,018	9,027	12,036	15,045	18,054	21,063	24,073		
6	108 Keel	-3,372	4,139	-1,690										
7	98 Stbd	0	0		4,090	8,180	12,271	16,361	20,451	24,542	28,632	32,722		
8	98 East	-5,986	-881	-2,993										
9	98 West	-5,986	-881	-2,993										
10	92 Stbd	0	0		1,931	3,863	5,794	7,725	9,656	11,588	13,519	15,450		
11	92 Keel	-11,547	-6,726	-5,774										
12	86 Stbd	0	0											
13	86 Keel	-12,144	-10,371											
14	80 Stbd	0	0											
15	80 Keel	-13,893	-16,203	-6,947										
16	72 Stbd	0	0		-925	-1,851	-2,776	-3,702	-4,627	-5,552	-6,478	-7,403		
17	72 Keel	-13,319	-21,029	-6,660										
18	64 Stbd	0	0		-3,089	-6,178	-9,266	-12,355	-15,444	-18,533	-21,621	-24,710		
19	64 East	-7,120	-12,735	-3,560										
20	64 West	-7,120	-12,735	-3,560										
21	56 Stbd	0	0		-4,810	-9,619	-14,429	-19,238	-24,048	-28,857	-33,667	-38,476		
22	56 Fast	-7,690	-13,693	-3,845										
23	56 West	-7,690	-13,693	-3,845										
24	48 Stbd	0	0		-3,922	-7,845	-11,767	-15,690	-19,612	-23,534	-27,457	-31,379		
25	48 Keel	-14,412	-24,202	-7,206										
26	40 Stbd	0	0		-2,062	-4,125	-6,187	-8,250	-10,312	-12,374	-14,437	-16,499		
27	40 Keel	-16,760	-21,908	-8,380										
28	24 Stbd	0	0											
29	24 East	-5,885	-2,024											
30	24 West	-5,885	-2,024											
31	16 Stbd	0	0		4,241	8,482	12,723	16,964	21,205	25,446	29,687	33,923		
32	16 Fast	-4,536	757	-2,268										
33	16 West	-4,536	757	-2,268										
34	8 Stbd	0	0		2,233	4,466	6,693	8,931	11,164	13,397	15,629	17,862		
35	8 Keel	-2,790	2,783	-1,395										
36	8 Surge													

TABLE D.2 (Continued)

BAFCO No.		Load Cell	Part B Load Condition, HOG (1b)									
			Zero Stress	Still Water + Zero Stress	10%	20%	30%	40%	50%	60%	70%	80%
5	108	Stbd	0	0	-3,009	-6,018	-9,027	-12,036	-15,045	-18,054	-21,063	-24,073
6	108	Keel	-3,372	4,139								
7	98	Stbd	0	0	-4,090	-8,180	-12,271	-16,361	-20,451	-24,542	-28,632	-32,722
8	98	East	-5,986	-881								
9	98	West	-5,986	-881								
10	92	Stbd	0	0	-1,931	-3,863	-5,794	-7,725	-9,656	-11,588	-13,519	-15,450
11	92	Keel	-11,547	-6,726								
12	86	Stbd	0	0								
13	86	Keel	-12,144	-10,371								
14	80	Stbd	0	0	925	1,851	2,776	3,702	4,627	5,552	6,478	7,403
15	80	Keel	-13,893	-16,203								
16	72	Stbd	0	0	3,089	6,178	9,266	12,355	15,444	18,533	21,621	24,710
17	72	Keel	-13,319	-21,029								
18	64	Stbd	0	0	4,500	9,000	13,500	18,000	22,499	26,999	31,498	35,998
19	64	East	-7,120	-12,735								
20	64	West	-7,120	-12,735								
21	56	Stbd	0	0	4,810	9,619	14,429	19,238	24,048	28,857	33,667	38,476
22	56	East	-7,690	-13,693								
23	56	West	-7,690	-13,693								
24	48	Stbd	0	0	3,922	7,845	11,767	15,690	19,612	23,534	27,457	31,379
25	48	Keel	-14,412	-24,202								
26	40	Stbd	0	0	2,062	4,125	6,187	8,250	10,312	12,374	14,437	16,499
27	40	Keel	-16,760	-21,908								
28	24	Stbd	0	0								
29	24	East	-5,885	-2,024								
30	24	West	-5,885	-2,024								
31	16	Stbd	0	0	-4,241	-8,482	-12,723	-16,964	-21,205	-25,446	-29,687	-33,923
32	16	East	-4,536	757								
33	16	West	-4,536	757								
34	8	Stbd	0	0	-2,233	-4,466	-6,698	-8,931	-11,164	-13,397	-15,629	-17,862
35	8	Keel	-2,790	2,783								
36	8	Surge										

TABLE D.3 - ASEM STATIC TEST 3--CALCULATED LOADS

		Load Condition, 60 Degree Lag (lb)						
BAFCO No.	Load Cell	Zero Stress	Still Water + Zero Stress	80% Max Lateral	Lateral Offset	Percent Load		
						↑ +10%	↑ +20%	↑ +30%
5	108 Stbd	0	0	-24,073	20,848	19,180	17,177	14,813
6	108 Keel	-3,372	4,139			-1,879	-7,897	-13,920
7	98 Stbd	0	0	-32,722	28,338	26,071	23,348	20,135
8	98 East	-5,986	-881			-4,971	-9,062	-13,155
9	98 West	-5,986	-881			-4,971	-9,062	-13,155
10	92 Stbd	0	0	-15,450	13,380	12,310	11,024	9,507
11	92 Keel	-11,547	-6,726			-10,589	-14,451	-18,317
12	86 Stbd	0	0					
13	86 Keel	-12,144	-10,371					
14	80 Stbd	0	0	7,403	-6,411	-5,898	-5,282	-4,555
15	80 Keel	-13,893	-16,203			-14,352	-12,502	-10,650
16	72 Stbd	0	0	24,710	-21,399	-19,687	-17,631	-15,205
17	72 Keel	-13,319	-21,029			-14,851	-8,674	-2,491
18	64 Stbd	0	0	35,998	-31,175	-28,681	-25,685	-22,151
19	64 East	-7,120	-12,735			-8,235	-3,736	768
20	64 West	-7,120	-12,735			-8,235	-3,736	768
21	56 Stbd	0	0	38,476	-33,321	-30,655	-27,454	-23,675
22	56 East	-7,690	-13,693			-8,883	-4,074	739
23	56 West	-7,690	-13,693			-8,883	-4,074	739
24	48 Stbd	0	0	31,379	-27,175	-25,001	-22,390	-19,308
25	48 Keel	-14,412	-24,202			-16,357	-8,513	-662
26	40 Stbd	0	0	16,499	-14,289	-13,145	-11,772	-10,152
27	40 Keel	-16,760	-21,908			-17,783	-13,659	-9,531
28	24 Stbd	0	0					
29	24 East	-5,885	-2,024					
30	24 West	-5,885	-2,024					
31	16 Stbd	0	0	-33,928	29,382	27,032	24,208	20,877
32	16 East	-4,536	757			-3,484	-7,725	-11,969
33	16 West	-4,536	757			-3,484	-7,725	-11,969
34	8 Stbd	0	0	-17,862	15,469	14,231	12,745	10,991
35	8 Keel	-2,790	2,783			-1,683	-6,148	-10,617
36	8 Surge							

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (1b)									
		Percent Load					Percent Load				
		↑+40%	↑+50%	↑+60%	↑+70%	↑+80%	↑+70%	↑+80%	↑+70%	↑+80%	↑+70%
5	108 Stbd	12,037	8,752	4,762	-439	-12,037	-20,625	-22,817			
6	108 Keel	-19,934	-25,952	-31,979	-37,983	-44,006	-37,983	-31,979			
7	98 Stbd	16,361	11,896	6,473	-597	-16,361	-28,035	-31,015			
8	98 East	-17,242	-21,332	-25,429	-29,509	-33,603	-29,509	-25,429			
9	98 West	-17,242	-21,332	-25,429	-29,509	-33,603	-29,509	-25,429			
10	92 Stbd	7,725	5,617	3,056	-282	-7,725	-13,237	-14,644			
11	92 Keel	-22,177	-26,039	-29,908	-33,761	-37,627	-33,761	-29,908			
12	86 Stbd										
13	86 Keel										
14	80 Stbd	-3,702	-2,691	-1,464	135	3,702	6,343	7,017			
15	80 Keel	-8,801	-6,950	-5,096	-3,250	-1,398	-3,250	-5,096			
16	72 Stbd	-12,355	-8,983	-4,888	451	12,355	21,171	23,421			
17	72 Keel	3,682	9,859	16,046	22,209	28,392	22,209	16,046			
18	64 Stbd	-17,999	-13,087	-7,121	656	17,999	30,842	34,120			
19	64 East	5,264	9,764	14,270	18,759	23,263	18,759	14,270			
20	64 West	5,264	9,764	14,270	18,759	23,263	18,759	14,270			
21	56 Stbd	-19,238	-13,988	-7,611	702	19,238	32,965	36,468			
22	56 East	5,546	10,355	15,172	19,970	24,784	19,970	15,172			
23	56 West	5,546	10,355	15,172	19,970	24,784	19,970	15,172			
24	48 Stbd	-15,690	-11,408	-6,207	572	15,690	26,884	29,742			
25	48 Keel	7,177	15,022	22,878	30,704	38,556	30,704	22,878			
26	40 Stbd	-8,250	-5,998	-3,264	301	8,250	14,136	15,638			
27	40 Keel	-5,409	-1,284	2,847	6,962	11,090	6,962	2,847			
28	24 Stbd										
29	24 East										
30	24 West										
31	16 Stbd	16,964	12,334	6,712	-619	-16,964	-29,068	-32,158			
32	16 East	-16,207	-20,448	-24,695	-28,926	-33,171	-28,926	-24,695			
33	16 West	-16,207	-20,448	-24,695	-28,926	-33,171	-28,926	-24,695			
34	8 Stbd	8,931	6,494	3,533	-326	-8,931	-15,304	-16,930			
35	8 Keel	-15,079	-19,545	-24,017	-28,472	-32,941	-28,472	-24,017			
36	8 Surge										

TABLE D.3 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (1b)					
		+50%+	+40%+	+30%+	+20%+	+10%+	-10%+
5	108 Stbd	-23,797	-24,073	-23,840	-23,195	-22,189	-19,180
6	108 Keel	-25,952	-19,934	-13,920	-7,897	-1,879	10,157
7	98 Stbd	-32,347	-32,722	-32,405	-31,528	-30,161	-26,071
8	98 East	-21,332	-17,242	-13,155	-9,067	-4,971	3,209
9	98 West	-21,332	-17,242	-13,155	-9,067	-4,971	3,209
10	92 Stbd	-15,273	-15,450	-15,301	-14,886	-14,241	-12,310
11	92 Keel	-26,039	-22,177	-18,317	-14,451	-10,589	-2,863
12	86 Stbd						
13	86 Keel						
14	80 Stbd	7,318	7,403	7,331	7,133	6,824	5,898
15	80 Keel	-6,950	-8,801	-10,650	-12,502	-14,352	-18,054
16	72 Stbd	24,427	24,710	24,471	23,809	22,776	19,687
17	72 Keel	9,859	3,682	-2,491	-8,674	-14,851	-27,207
18	64 Stbd	35,585	35,998	35,650	34,685	33,181	28,681
19	64 East	9,764	5,264	768	-3,736	-8,235	-17,235
20	64 West	9,764	5,264	768	-3,736	-8,235	-17,235
21	56 Stbd	38,035	38,476	38,104	37,073	35,465	30,655
22	56 East	10,355	5,546	739	-4,074	-8,883	-18,503
23	56 West	10,355	5,546	739	-4,074	-8,883	-18,503
24	48 Stbd	31,019	31,379	31,075	30,234	28,923	25,001
25	48 Keel	15,022	7,177	-662	-8,513	-16,357	-32,047
26	40 Stbd	16,310	16,499	16,339	15,897	15,208	13,145
27	40 Keel	-1,284	-5,409	-9,531	-13,659	-17,783	-26,033
28	24 Stbd						
29	24 East						
30	24 West						
31	16 Stbd	-33,539	-33,928	-33,600	-32,690	-31,273	-27,032
32	16 East	-20,448	-16,207	-11,969	-7,725	-3,484	4,998
33	16 West	-20,448	-16,207	-11,969	-7,725	-3,484	4,998
34	8 Stbd	-17,657	-17,862	-17,689	-17,210	-16,464	-14,231
35	8 Keel	-19,545	-15,079	-10,617	-6,148	-1,683	7,249
36	8 Surge						

TABLE D.3 (Continued)  
Load Condition, 60 Degrees Lag (1b)

BAFCO No.	Load Cell	Percent Load						
		-20%+	-30%+	-40%+	-50%+	-60%+	-70%+	-80%+
5	108 Stbd	-17,177	-14,813	-12,037	-8,752	-4,762	439	12,037
6	108 Keel	16,175	27,198	28,212	34,230	40,257	46,261	52,284
7	98 Stbd	-23,348	-20,135	-16,361	-11,896	-6,473	597	16,361
8	98 East	7,300	11,393	15,480	19,570	23,667	27,747	31,841
9	98 West	7,300	11,393	15,480	19,570	23,667	27,747	31,841
10	92 Stbd	-11,024	-9,507	-7,725	-5,617	-3,056	282	7,725
11	92 Keel	999	4,865	8,725	12,587	16,456	20,309	24,175
12	86 Stbd							
13	86 Keel							
14	80 Stbd	5,282	4,555	3,702	2,691	1,464	-135	-3,702
15	80 Keel	-19,904	-21,756	-23,606	-25,456	-27,310	-29,156	-31,008
16	72 Stbd	17,631	15,205	12,355	8,983	4,888	-451	-12,355
17	72 Keel	-33,384	-39,567	-45,740	-51,917	-58,104	-64,267	-70,450
18	64 Stbd	25,685	22,151	17,999	13,087	7,121	-656	-17,999
19	64 East	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
20	64 West	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229	-48,733
21	56 Stbd	27,454	23,675	19,238	13,988	7,611	-702	-19,238
22	56 East	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
23	56 West	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356	-52,170
24	48 Stbd	22,390	19,308	15,690	11,408	6,207	-572	-15,690
25	48 Keel	-39,892	-47,742	-55,581	-63,426	-71,282	-79,108	-86,960
26	40 Stbd	11,772	10,152	8,250	5,998	3,264	-301	-8,250
27	40 Keel	-30,158	-34,285	-38,407	-42,532	-46,663	-50,778	-54,906
28	24 Stbd							
29	24 East							
30	24 West							
31	16 Stbd	-24,208	-20,877	-16,964	-12,334	-6,712	619	16,964
32	16 East	9,239	13,483	17,721	21,962	26,209	30,440	34,685
33	16 West	9,239	13,483	17,721	21,962	26,209	30,440	34,685
34	8 Stbd	-12,745	-10,991	-8,931	-6,494	-3,533	326	8,931
35	8 Keel	11,714	16,183	20,645	25,111	29,583	34,038	38,507
36	8 Surge							



TABLE D.3 (Continued)  
Load Condition, 60 Degree Lag (1b)

BAFCO No.	Load Cell	Percent Load						
		-70% †	-60% †	-50% †	-40% †	-30% †	-20% †	-10% †
5	108 Stbd	20,625	22,817	23,797	24,073	23,840	23,195	22,189
6	108 Keel	46,261	40,257	34,230	28,212	22,198	16,175	10,157
7	98 Stbd	28,035	31,015	32,347	32,722	32,405	31,528	30,161
8	98 East	27,747	23,667	19,570	15,480	11,393	7,300	3,209
9	98 West	27,474	23,667	19,570	15,480	11,393	7,300	3,209
10	92 Stbd	13,237	14,644	15,273	15,450	15,301	14,886	14,241
11	92 Keel	20,309	16,456	12,587	8,725	4,865	999	-2,863
12	86 Stbd							
13	86 Keel							
14	80 Stbd	-6,343	-7,017	-7,318	-7,403	-7,331	-7,133	-6,824
15	80 Keel	-29,156	-27,310	-25,456	-23,606	-21,756	-19,904	-18,054
16	72 Stbd	-21,171	-23,421	-24,427	-24,710	-24,471	-23,809	-22,776
17	72 Keel	-64,267	-58,104	-51,917	-45,740	-39,567	-33,384	-27,207
18	64 Stbd	-30,842	-34,120	-35,585	-35,998	-35,650	-34,685	-33,181
19	64 East	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
20	64 West	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235
21	56 Stbd	-32,965	-36,468	-38,035	-38,476	-38,104	-37,073	-35,465
22	56 East	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
23	56 West	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503
24	48 Stbd	-26,884	-29,742	-31,019	-31,379	-31,075	-30,234	-28,923
25	48 Keel	-79,108	-71,282	-63,426	-55,581	-47,742	-39,892	-32,047
26	40 Stbd	-14,136	-15,638	-16,310	-16,499	-16,339	-15,897	-15,208
27	40 Keel	-50,778	-46,663	-42,532	-38,407	-34,285	-30,158	-26,033
28	24 Stbd							
29	24 East							
30	24 West							
31	16 Stbd	29,068	32,158	33,539	33,928	33,600	32,690	31,273
32	16 East	30,440	26,209	21,962	17,721	13,483	9,239	4,998
33	16 West	30,440	26,209	21,962	17,721	13,483	9,239	4,998
34	8 Stbd	15,304	16,930	17,689	17,862	17,696	17,210	16,464
35	8 Keel	34,038	29,583	25,111	20,645	16,183	11,714	7,249
36	8 Surge							

TABLE D.4 - ASEM STATIC TEST 4--CALCULATED LOADS

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (1b)									
		Zero Stress	Still Water+Zero Stress	80% Max Lateral	Lateral Offset	Percent Load					
						↑ +10%	↑ +20%	↑ +30%	↑ +40%	↑ +50%	
5	108 Stbd	0	0	-24,073	-20,848	-19,180	-17,777	-14,813	-12,037	-8,752	
6	108 Keel	-3,372	4,139			-1,879	-7,897	-13,920	-19,934	-25,952	
7	98 Stbd	0	0	-32,722	-28,338	-26,071	-23,348	-20,135	-16,361	-11,896	
8	98 East	-5,986	-881			-4,971	-9,062	-13,155	-17,242	-21,332	
9	98 West	-5,986	-881			-4,971	-9,062	-13,155	-17,242	-21,332	
10	92 Stbd	0	0	-15,450	-13,380	-12,310	-11,024	-9,507	-7,725	-5,617	
11	92 Keel	-11,547	-6,726			-10,589	-14,451	-18,317	-22,177	-26,039	
12	86 Stbd	0	0								
13	86 Keel	-12,144	-10,371								
14	80 Stbd	0	0	7,403	6,411	5,898	5,282	4,555	3,702	2,691	
15	80 Keel	-13,893	-16,203			-14,352	-12,502	-10,650	-8,801	-6,950	
16	72 Stbd	0	0	24,710	21,399	19,687	17,631	15,205	12,355	8,983	
17	72 Keel	-13,319	-21,029			-14,851	-8,674	-2,491	3,682	9,859	
18	64 Stbd	0	0	35,998	31,175	28,681	25,685	22,151	17,999	13,087	
19	64 East	-7,120	-12,735			-8,235	-3,736	768	5,264	9,764	
20	64 West	-7,120	-12,735			-8,235	-3,736	768	5,264	9,764	
21	56 Stbd	0	0	38,476	33,321	30,655	27,454	23,675	19,238	13,988	
22	56 East	-7,690	-13,693			-8,883	-4,074	739	5,546	10,355	
23	56 West	-7,690	-13,693			-8,883	-4,074	739	5,546	10,355	
24	48 Stbd	0	0	31,379	27,175	25,001	22,390	19,308	15,690	11,406	
25	48 Keel	-14,412	-24,202			-16,357	-8,513	-662	7,177	15,022	
26	40 Stbd	0	0	16,499	14,289	13,145	11,772	10,152	8,250	5,998	
27	40 Keel	-16,760	-21,908			-17,783	-13,659	-9,531	-5,409	-1,284	
28	24 Stbd	0	0								
29	24 East	-5,885	-2,024								
30	24 West	-5,885	-2,024								
31	16 Stbd	0	0	-33,928	-29,382	-27,032	-24,208	-20,877	-16,964	-12,334	
32	16 East	-4,536	757			-3,484	-7,725	-11,969	-16,207	-20,448	
33	16 West	-4,536	757			-3,484	-7,725	-11,969	-16,207	-20,448	
34	8 Stbd	0	0	-17,862	-15,469	-14,231	-12,745	-10,991	-8,931	-6,494	
35	8 Keel	-2,790	2,783			-1,683	-6,148	-10,617	-15,079	-19,545	
36	8 Surge										

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (1b)									
		+60%	+70%	+80%	+70%	+60%	+50%	+40%	+30%	+20%	+10%
5	108 Stbd	-4,762	439	12,037	20,625	22,817	23,797	24,073	23,840	23,195	
6	108 Keel	-31,979	-37,983	-44,006	-37,983	-31,979	-25,952	-19,934	-13,920	-7,897	
7	98 Stbd	-6,473	597	16,361	28,035	31,015	32,347	32,722	32,405	31,528	
8	98 East	-25,429	-29,509	-33,603	-29,509	-25,429	-21,332	-17,242	-13,155	-9,062	
9	98 West	-25,429	-29,509	-33,603	-29,509	-25,429	-21,332	-17,242	-13,155	-9,062	
10	92 Stbd	-3,056	282	7,725	13,327	14,644	15,273	15,450	15,301	14,886	
11	92 Keel	-29,908	-33,761	-37,627	-33,761	-29,908	-26,039	-22,177	-18,317	-14,451	
12	86 Stbd										
13	86 Keel										
14	80 Stbd	1,464	-135	-3,702	-6,343	-7,017	-7,318	-7,403	-7,331	-7,133	
15	80 Keel	-5,096	-3,250	-1,398	-3,250	-5,096	-6,950	-8,801	-10,650	-12,502	
16	72 Stbd	4,888	-451	-12,355	-21,171	-23,421	-24,427	-24,710	-24,471	-23,809	
17	72 Keel	16,046	22,209	28,392	22,209	16,046	9,859	3,682	-2,491	-8,674	
18	64 Stbd	7,121	-656	-17,999	-30,841	-34,120	-35,585	-35,998	-35,650	-34,685	
19	64 East	14,270	18,759	23,263	18,759	14,270	9,764	5,264	768	-3,736	
20	64 West	14,270	18,759	23,263	18,759	14,270	9,764	5,264	768	-3,736	
21	56 Stbd	7,611	-701	-19,238	-32,965	-36,468	-38,035	-38,476	-38,104	-37,073	
22	56 East	15,172	19,970	24,784	19,970	15,172	10,355	5,546	739	-4,074	
23	56 West	15,172	19,970	24,784	19,970	15,172	10,355	5,546	739	-4,074	
24	48 Stbd	6,207	-572	-15,600	-26,884	-29,742	-31,019	-31,379	-50,882	-49,505	
25	48 Keel	22,878	30,704	38,556	30,704	22,878	15,022	7,177	-662	-8,513	
26	40 Stbd	3,264	-301	-8,250	-14,136	-15,638	-16,310	-16,499	-16,339	-15,897	
27	40 Keel	2,847	6,962	11,090	6,962	2,847	-1,284	-5,409	-9,531	-13,659	
28	24 Stbd										
29	24 East										
30	24 West										
31	16 Stbd	-6,712	619	16,964	29,068	32,158	33,539	33,928	33,600	32,690	
32	16 East	-24,695	-28,926	-33,171	-28,926	-24,695	-20,448	-16,207	-11,969	-7,725	
33	16 West	-24,695	-28,926	-33,171	-28,926	-24,695	-20,448	-16,207	-11,969	-7,725	
34	8 Stbd	-3,533	326	8,931	15,304	16,930	17,657	17,862	17,689	17,210	
35	8 Keel	-24,017	-28,472	-32,941	-28,472	-24,017	-19,545	-15,074	-10,617	-6,148	
36	8 Surge										

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)									
		+10% ↓	-10% ↓	-20% ↓	-30% ↓	-40% ↓	-50% ↓	-60% ↓	-70% ↓		
5	108 Stbd	22,189	19,180	17,177	14,813	12,037	8,752	4,762	-439		
6	108 Keel	-1,879	10,157	16,175	22,198	28,212	34,230	40,257	46,261		
7	98 Stbd	30,161	26,071	23,348	20,135	16,361	11,896	6,473	-597		
8	98 East	-4,971	3,209	7,300	11,393	15,480	19,570	23,667	27,747		
9	98 West	-4,971	3,209	7,300	11,393	15,480	19,570	23,667	27,747		
10	92 Stbd	14,241	12,310	11,024	9,507	7,725	5,617	3,056	-282		
11	92 Keel	-10,589	-2,863	999	4,865	8,725	12,587	16,456	20,309		
12	86 Stbd										
13	86 Keel										
14	80 Stbd	-6,824	-5,898	-5,282	-4,555	-3,702	-2,691	-1,464	135		
15	80 Keel	-14,352	-18,054	-19,904	-21,756	-23,606	-25,456	-27,310	-29,156		
16	72 Stbd	-22,776	-19,687	-17,631	-15,205	-12,355	-8,983	-4,888	451		
17	72 Keel	-14,851	-27,207	-33,384	-39,567	-45,740	-51,917	-58,014	-64,267		
18	64 Stbd	-33,181	-28,681	-25,685	-22,151	-17,999	-13,087	-7,121	656		
19	64 East	-8,235	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229		
20	64 West	-8,235	-17,235	-21,735	-26,238	-30,734	-35,234	-39,740	-44,229		
21	56 Stbd	-35,465	-30,655	-27,454	-23,675	-19,238	-13,988	-7,611	701		
22	56 East	-8,883	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356		
23	56 West	-8,883	-18,503	-23,312	-28,125	-32,932	-37,741	-42,558	-47,356		
24	48 Stbd	-47,358	-25,001	-22,390	-19,308	-15,690	-11,406	-6,207	572		
25	48 Keel	-16,357	-32,047	-39,892	-47,742	-55,581	-63,426	-71,282	-79,108		
26	40 Stbd	-15,208	-13,145	-11,772	-10,152	-8,250	-5,998	-3,264	301		
27	40 Keel	-17,783	-26,033	-30,158	-34,285	-38,407	-42,532	-46,663	-50,778		
28	24 Stbd										
29	24 East										
30	24 West										
31	16 Stbd	31,273	27,032	24,208	20,877	16,964	12,334	6,712	-619		
32	16 East	-3,484	4,998	9,239	13,483	17,721	21,962	26,209	30,440		
33	16 West	-3,484	4,998	9,239	13,483	17,721	21,962	26,209	30,440		
34	8 Stbd	16,464	14,231	12,745	10,991	8,931	6,494	3,533	-326		
35	8 Keel	-1,683	7,249	11,714	16,183	20,645	25,111	29,583	34,038		
36	8 Surge										

TABLE D.4 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (1b)									
		Percent Load									
		-80% †	-70% †	-60% †	-50% †	-40% †	-30% †	-20% †	-10% †		
5	108 Stbd	-12,037	-20,625	-22,817	-23,797	-24,073	-23,840	-23,195	-22,189		
6	108 Keel	52,284	46,261	40,257	34,230	28,212	22,198	16,175	10,157		
7	98 Stbd	-16,361	-28,035	-31,015	-32,347	-32,722	-32,405	-31,528	-30,161		
8	98 East	31,841	27,747	23,667	19,570	15,480	11,393	7,300	3,209		
9	98 West	31,841	27,747	23,667	19,570	15,480	11,393	7,300	3,209		
10	92 Stbd	-7,725	-13,237	-14,644	-15,273	-15,450	-15,301	-14,886	-14,241		
11	92 Keel	24,175	20,309	16,456	12,587	8,725	4,865	999	-2,863		
12	86 Stbd										
13	86 Keel										
14	80 Stbd	3,702	6,343	7,017	7,318	7,403	7,331	7,133	6,824		
15	80 Keel	-31,008	-29,156	-27,310	-25,456	-23,606	-21,756	-19,904	-18,054		
16	72 Stbd	12,355	21,171	23,421	24,427	24,710	24,471	23,809	22,776		
17	72 Keel	-70,450	-64,267	-58,104	-51,917	-45,740	-39,567	-33,384	-27,207		
18	64 Stbd	17,999	30,841	34,120	35,585	35,998	35,650	34,685	33,181		
19	64 East	-48,733	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235		
20	64 West	-48,733	-44,229	-39,740	-35,234	-30,734	-26,238	-21,735	-17,235		
21	56 Stbd	19,238	32,965	36,468	38,035	38,476	38,104	37,073	35,465		
22	56 East	-52,170	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503		
23	56 West	-52,170	-47,356	-42,558	-37,741	-32,932	-28,125	-23,312	-18,503		
24	48 Stbd	15,690	26,884	29,742	31,019	31,379	50,882	49,505	47,358		
25	48 Keel	-86,960	-79,108	-71,282	-63,426	-55,581	-47,742	-39,892	-32,047		
26	40 Stbd	8,250	14,136	15,638	16,310	16,499	16,339	15,897	15,208		
27	40 Keel	-54,906	-50,778	-46,663	-42,532	-38,407	-34,285	-30,158	-26,033		
28	24 Stbd										
29	24 East										
30	24 West										
31	16 Stbd	-16,964	-29,068	-32,158	-33,539	-33,928	-33,600	-32,690	-31,273		
32	16 East	34,685	30,440	26,209	21,962	17,721	13,483	9,239	4,998		
33	16 West	34,685	30,440	26,209	21,962	17,721	13,483	9,239	4,998		
34	8 Stbd	-6,494	-15,304	-16,930	-17,657	-17,682	-17,689	-17,210	-16,464		
35	8 Keel	38,507	34,038	29,583	25,111	20,645	16,183	11,714	7,249		
36	8 Surge										

TABLE D.5 - ASEM STATIC TEST I--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, HOC-SAG (1b)									
		Unlock	Zero	Zero Stress	Still Water+Zero Stress	Percent Load					
						+10% ↑	+20% ↑	+30% ↑	+40% ↑		
5	108 Stbd	-1,050	-1,060	0	0	0	0	0	0	0	
6	108 Keel	170	-3,230	-3,332	4,230	-1,840	-7,910	-13,960	-20,050	-20,050	
7	98 Stbd	-70	-60	-60	-80	-80	-80	-80	-70	-70	
8	98 East	40	-6,060	-6,050	-870	-5,020	-9,180	-13,330	-17,500	-17,500	
9	98 West	130	-6,020	-6,000	-840	-4,980	-9,120	-13,240	-17,370	-17,370	
10	92 Stbd	-280	-150	30	70	60	90	100	100	100	
11	92 Keel	-350	-11,480	-11,510	-6,830	-10,590	-14,320	-18,060	-21,820	-21,820	
12	86 Stbd	2,350	2,380	0	-20	140	-100	0	-220	-220	
13	86 Keel	-41,780	-12,980	-14,390	-12,500	-13,810	-15,500	-17,220	-18,800	-18,800	
14	80 Stbd	0	0	0	0	0	0	0	0	0	
15	80 Keel	-580	-4,550	-13,890	-16,230	-14,360	-12,460	-10,570	-8,720	-8,720	
16	72 Stbd	-1,150	-1,160	0	0	10	20	10	0	0	
17	72 Keel	-1,040	-14,060	-13,330	-20,830	-15,030	-8,840	-2,830	3,250	3,250	
18	64 Stbd	0	0	0	0	0	0	0	0	0	
19	64 East	0	-7,050	-7,050	-12,630	-8,180	-3,700	750	5,190	5,190	
20	64 West	-310	-7,500	-7,090	-12,740	-8,230	-3,750	800	5,220	5,220	
21	56 Stbd	-600	40	40	50	-580	50	-580	40	40	
22	56 East	220	-7,700	-7,720	-13,840	-8,970	-4,060	930	5,780	5,780	
23	56 West	270	-7,600	-7,600	-13,700	-8,800	-3,950	1,020	5,930	5,930	
24	48 Stbd	0	0	0	0	0	0	0	0	0	
25	48 Keel	280	-14,320	-14,340	-24,220	-16,290	-8,430	-510	7,460	7,460	
26	40 Stbd	30	40	50	50	50	50	50	50	50	
27	40 Keel	850	-16,600	-16,580	-21,900	-17,650	-13,400	-9,150	-4,880	-4,880	
28	24 Stbd	1,230	1,800	580	540	980	630	900	560	560	
29	24 East	-11,130	-2,030	-3,650	370	-3,130	-6,200	-9,350	-12,600	-12,600	
30	24 West	-15,070	-8,530	-13,250	-9,120	-12,680	-15,620	-18,100	-21,080	-21,080	
31	16 Stbd	0	-20	0	0	0	0	0	0	0	
32	16 East	-2,180	-6,170	-4,550	100	-2,960	-7,230	-11,710	-15,700	-15,700	
33	16 West	190	-4,360	-4,520	820	-3,450	-7,800	-12,190	-16,560	-16,560	
34	8 Stbd	-1,070	-1,060	-10	-10	0	0	0	0	0	
35	8 Keel	-3,000	-5,900	-2,880	3,030	-1,800	-6,330	-11,000	-15,690	-15,690	
36	8 Surge	-1,480	-980	-1,030	-790	-940	-1,180	-1,500	-1,750	-1,750	

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)											
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓				
5	108 Stbd	0	0	0	0	0	0	0	0	0	0	0	0
6	108 Keel	-26,100	-32,180	-38,240	-44,300	-38,240	-32,160	-26,100	0	-32,160	-38,240	-26,100	-20,040
7	98 Stbd	-80	-80	-80	-80	-70	-70	-80	-70	-70	-80	-80	-70
8	98 East	-21,650	-25,820	-29,980	-34,150	-30,000	-25,830	-21,680	-21,680	-25,830	-30,000	-21,680	-17,510
9	98 West	-21,530	-25,640	-29,770	-33,900	-29,770	-25,620	-21,480	-21,480	-25,620	-29,770	-21,480	-17,330
10	92 Stbd	90	100	100	90	90	90	100	100	90	90	100	90
11	92 Keel	-25,900	-29,640	-33,380	-37,120	-33,380	-29,630	-25,870	-25,870	-29,630	-33,380	-25,870	-22,130
12	86 Stbd	-40	-330	-130	-160	-160	-420	-120	-120	-420	-160	-120	-350
13	86 Keel	-20,030	-21,650	-22,760	-24,580	-23,040	-21,530	-20,150	-20,150	-21,530	-23,040	-20,150	-18,720
14	80 Stbd	0	0	0	0	0	0	0	0	0	0	0	0
15	80 Keel	-6,840	-4,990	-3,090	-1,240	-3,120	-5,000	-6,870	-6,870	-5,000	-3,120	-6,870	-8,730
16	72 Stbd	10	0	0	0	0	0	0	0	0	0	0	0
17	72 Keel	9,680	15,660	21,670	28,200	22,220	16,210	10,220	10,220	16,210	22,220	10,220	4,210
18	64 Stbd	0	0	0	0	0	0	0	0	0	0	0	0
19	64 East	9,660	14,120	18,590	23,050	18,600	14,120	9,660	9,660	14,120	18,600	9,660	5,180
20	64 West	9,730	14,220	18,630	23,060	18,310	13,740	9,370	9,370	13,740	18,310	9,370	4,940
21	56 Stbd	-560	50	-590	-580	-580	50	580	580	50	-580	580	50
22	56 East	10,680	15,550	20,420	25,300	20,430	15,540	10,640	10,640	15,540	20,430	10,640	5,760
23	56 West	10,800	15,660	19,890	24,620	19,920	15,180	10,460	10,460	15,180	19,920	10,460	5,730
24	48 Stbd	0	0	0	0	0	0	0	0	0	0	0	0
25	48 Keel	15,350	23,240	31,130	39,030	31,150	23,240	15,340	15,340	23,240	31,150	15,340	7,450
26	40 Stbd	50	50	50	50	50	50	50	50	50	50	50	50
27	40 Keel	-1,020	3,480	7,880	12,290	7,900	3,500	-1,020	-1,020	3,500	7,900	-1,020	-5,430
28	24 Stbd	840	410	610	550	640	410	770	770	410	640	770	520
29	24 East	-16,000	-19,380	-23,190	-26,720	-23,320	-19,750	-16,350	-16,350	-19,750	-23,320	-16,350	-12,810
30	24 West	-23,870	-26,890	-29,820	-32,730	-29,620	-26,730	-23,730	-23,730	-26,730	-29,620	-23,730	-20,990
31	16 Stbd	0	0	0	0	-10	-10	-10	-10	-10	-10	-10	-10
32	16 East	-20,330	-24,450	-28,590	-32,700	-28,570	-24,430	-20,300	-20,300	-24,430	-28,570	-20,300	-16,180
33	16 West	-20,870	-25,260	-28,950	-33,200	-28,940	-24,690	-20,460	-20,460	-24,690	-28,940	-20,460	-16,190
34	8 Stbd	0	0	0	0	0	0	0	0	0	0	0	0
35	8 Keel	-19,570	-24,080	-28,590	-33,090	-28,590	-24,100	-19,610	-19,610	-24,100	-28,590	-19,610	-15,110
36	8 Surge	-1,990	-2,250	-2,510	-2,760	-2,820	-2,770	-2,600	-2,600	-2,770	-2,820	-2,600	-2,190

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)									
		Percent Load									
		+30%+	+20%+	+10%+	Still	-10%+	-20%+	-30%+	-40%+		
			Water								
5	108 Stbd	0	0	0	0	0	0	0	0	0	0
6	108 Keel	-13,990	-7,930	-1,890	4,160	10,230	16,260	22,340	28,400		
7	98 Stbd	-80	-80	-80	-80	-80	-80	-60	-70		
8	98 East	-13,350	-9,190	-5,050	-900	3,260	7,400	11,560	15,710		
9	98 West	-13,210	-9,080	-4,970	-830	3,320	7,460	11,620	15,750		
10	92 Stbd	100	100	100	90	100	100	90	100		
11	92 Keel	-18,390	-14,650	-10,920	-7,190	-3,450	290	4,030	8,640		
12	86 Stbd	0	-150	80	-180	40	60	-50	420		
13	86 Keel	-17,150	-15,400	-13,930	-12,210	-10,660	-9,350	-7,500	-7,150		
14	80 Stbd	0	0	0	0	0	0	0	0		
15	80 Keel	-10,600	-12,460	-14,360	-16,270	-18,160	-20,070	-21,980	-23,800		
16	72 Stbd	0	0	0	0	0	0	0	0		
17	72 Keel	-1,890	-7,910	-13,920	-19,920	-25,940	-33,250	-39,230	-45,250		
18	64 Stbd	0	0	0	0	0	0	0	0		
19	64 East	730	-3,710	-8,160	-12,640	-17,100	-21,580	-26,220	-30,670		
20	64 West	520	-4,320	-8,760	-13,650	-18,230	-21,590	-25,810	-30,030		
21	56 Stbd	-580	50	-580	50	-570	-570	50	-570		
22	56 East	870	-4,130	-9,010	-13,910	-18,830	-23,720	-28,620	-33,530		
23	56 West	980	-3,820	-8,520	-13,260	-17,960	-22,710	-28,160	-33,060		
24	48 Stbd	0	0	0	0	0	0	0	0		
25	48 Keel	-530	-8,420	-16,360	-24,250	-32,190	-40,100	-48,000	-55,890		
26	40 Stbd	50	50	40	40	40	30	50	40		
27	40 Keel	-9,840	-14,260	-18,650	-23,020	-27,460	-30,280	-34,460	-38,660		
28	24 Stbd	860	570	910	550	900	930	720	1,350		
29	24 East	-9,390	-5,790	-2,480	760	4,080	6,970	9,990	13,720		
30	24 West	-18,060	-15,210	-12,220	-8,900	-5,820	-3,670	-1,260	82		
31	16 Stbd	0	0	0	0	0	-10	0	-10		
32	16 East	-12,080	-7,970	-3,850	290	4,400	8,540	13,650	18,080		
33	16 West	-11,960	-7,700	-3,430	730	4,990	9,240	13,570	17,730		
34	8 Stbd	0	0	0	0	0	0	0	0		
35	8 Keel	-10,610	-6,100	-1,600	2,890	7,390	11,890	16,390	20,900		
36	8 Surge	-1,760	-1,360	-1,030	-780	-540	-370	-130	80		



TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (1b)									
		Percent Load									
		-50% †	-60% †	-70% †	-80% †	-70% †	-60% †	-50% †	-50% †	-40% †	
5	108 Stbd	0	0	0	0	0	0	0	0	0	0
6	108 Keel	34,460	40,500	46,550	52,580	46,510	40,450	34,380	28,310	0	0
7	98 Stbd	-60	-60	-60	-60	-70	-70	-70	-70	-70	-70
8	98 East	19,860	24,020	28,190	32,320	28,170	24,020	19,860	15,700	0	0
9	98 West	19,900	24,050	28,200	32,330	28,190	24,040	19,890	15,730	0	0
10	92 Stbd	130	100	110	100	100	100	100	90	0	0
11	92 Keel	12,380	16,120	19,880	23,580	19,850	16,120	12,360	8,630	0	0
12	86 Stbd	230	620	400	760	350	560	180	340	0	0
13	86 Keel	-6,150	-4,250	-2,300	-960	-2,530	-3,840	-5,490	-6,510	0	0
14	80 Stbd	0	0	0	0	0	0	0	0	0	0
15	80 Keel	-25,740	-27,630	-29,510	-31,400	-29,530	-27,630	-25,760	-23,890	0	0
16	72 Stbd	0	0	0	0	0	0	0	0	0	0
17	72 Keel	-51,270	-57,278	-64,100	-70,120	-64,130	-58,120	-52,100	-46,090	0	0
18	64 Stbd	0	0	0	0	0	0	0	0	0	0
19	64 East	-35,160	-39,660	-44,100	-48,580	-44,130	-39,640	-35,190	-30,690	0	0
20	64 West	-34,320	-39,580	-43,920	-48,290	-43,620	-39,290	-34,960	-30,620	0	0
21	56 Stbd	50	-570	50	-580	40	-580	40	-570	0	0
22	56 East	-37,800	-42,590	-47,380	-52,220	-47,410	-42,600	-37,820	-32,990	0	0
23	56 West	-37,920	-42,780	-47,630	-52,510	-47,670	-42,790	-37,950	-33,040	0	0
24	48 Stbd	0	0	0	0	0	0	0	0	0	0
25	48 Keel	-63,790	-71,690	-79,600	-87,510	-79,620	-71,700	-63,800	-55,870	0	0
26	40 Stbd	40	40	40	30	30	30	30	30	0	0
27	40 Keel	-42,840	-47,030	-51,200	-55,400	-51,240	-47,040	-42,860	-38,650	0	0
28	24 Stbd	1,180	1,580	1,400	1,780	1,340	1,460	1,040	1,180	0	0
29	24 East	16,860	20,500	24,000	27,170	23,880	20,400	17,120	13,650	0	0
30	24 West	3,180	6,380	8,970	11,720	8,970	6,540	3,890	1,470	0	0
31	16 Stbd	-20	-10	0	20	-30	-20	-30	-20	0	0
32	16 East	22,510	26,320	30,670	34,990	30,640	26,300	21,960	17,630	0	0
33	16 West	21,980	26,240	30,490	34,730	30,460	26,210	21,950	17,700	0	0
34	8 Stbd	0	0	0	0	0	0	0	0	0	0
35	8 Keel	25,400	29,890	34,400	38,890	34,390	29,890	25,400	20,890	0	0
36	8 Surge	300	580	830	1,020	840	560	280	0	0	0

TABLE D.5 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)						Still Water + Zero Stress	Zero	Unlock	
		Percent Load			-10%+	Water + Zero Stress	Zero				Unlock
		-30%+	-20%+	-10%+							
5	108 Stbd	0	0	0	0	0	0	0	0		
6	108 Keel	22,230	16,160	10,110	10,110	4,070	-3,520	-130			
7	98 Stbd	-70	-70	-70	-70	-70	-70	-70			
8	98 East	11,550	7,390	3,240	3,240	-910	-6,100	-30			
9	98 West	11,590	7,460	3,320	3,320	-820	-6,000	50			
10	92 Stbd	100	90	100	100	90	100	100			
11	92 Keel	4,880	1,140	-2,610	-2,610	-6,340	-11,040	160			
12	86 Stbd	-130	0	0	0	-220	-90	570			
13	86 Keel	-7,830	-9,230	-10,630	-10,630	-11,970	-13,580	-45,480			
14	80 Stbd	0	0	0	0	0	0	0			
15	80 Keel	-22,000	-20,100	-18,220	-18,220	-16,330	-14,020	-20			
16	72 Stbd	0	0	0	0	0	0	0			
17	72 Keel	-40,100	-34,090	-28,070	-28,070	-22,060	-14,560	-1,530			
18	64 Stbd	0	0	0	0	0	0	0			
19	64 East	-26,240	-21,620	-17,150	-17,150	-12,670	-7,110	-50			
20	64 West	-26,260	-21,930	-17,580	-17,580	-13,200	-7,750	-770			
21	56 Stbd	40	-570	-570	-570	40	40	-580			
22	56 East	-28,170	-23,360	-18,560	-18,560	-13,750	-7,760	30			
23	56 West	-28,240	-23,350	-18,490	-18,490	-13,640	-7,600	280			
24	48 Stbd	0	0	0	0	0	0	0			
25	48 Keel	-48,010	-40,090	-32,160	-32,160	-24,220	-14,360	240			
26	40 Stbd	30	20	30	30	30	30	30			
27	40 Keel	-34,490	-30,300	-26,120	-26,120	-21,920	-16,730	370			
28	24 Stbd	510	770	800	800	540	690	840			
29	24 East	9,880	6,530	3,500	3,500	640	-3,020	-13,630			
30	24 West	-590	-3,220	-6,090	-6,090	-9,120	-12,860	-18,760			
31	16 Stbd	-30	-30	-20	-20	-20	-30	-30			
32	16 East	13,300	8,970	4,620	4,620	300	-5,130	-480			
33	16 West	13,450	9,200	4,930	4,930	680	-4,540	-90			
34	8 Stbd	0	0	0	0	0	0	0			
35	8 Keel	16,370	11,880	7,370	7,370	2,870	-2,750	50			
36	8 Surge	-290	-520	-710	-710	-910	1,160	-2,680			

TABLE D.6 - ASEM STATIC TEST 2--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)									
		Unlock	Zero	Zero Stress	Still Water+Zero Stress	Percent Load			+40%↑		
						+10%↑	+20%↑	+30%↑			
5	108 Stbd	10	-10	-10	-20	2,930	5,930	-8,950	11,950		
6	108 Keel	140	-3,200	-3,230	4,210	4,210	4,200	4,200	4,200		
7	98 Stbd	490	0	30	40	4,120	8,200	12,310	16,390		
8	98 East	-1,190	-7,120	-5,960	-870	-870	-870	-860	-850		
9	98 West	290	-5,860	-5,870	-780	-760	-760	-780	-760		
10	92 Stbd	110	0	-10	-20	1,850	3,790	5,730	7,660		
11	92 Keel	1,050	-9,900	-11,520	-6,960	-6,730	-6,730	-6,730	-6,730		
12	86 Stbd	640	460	-650	-770	-180	490	1,240	2,000		
13	86 Keel	-50,790	-14,700	-14,620	-12,460	-12,600	-12,460	-12,350	-12,190		
14	80 Stbd	0	0	-0	-0	-930	-1,860	-2,790	-3,700		
15	80 Keel	-240	-13,930	-13,930	-16,260	-16,220	-16,200	-16,190	-16,200		
16	72 Stbd	0	-50	-0	0	-2,970	-6,040	-9,150	-12,200		
17	72 Keel	-250	-3,558	-13,330	-20,970	-20,980	-20,990	-21,000	-21,000		
18	64 Stbd	90	0	-0	0	-4,450	-8,940	-13,460	-17,950		
19	64 East	40	-7,080	-7,090	-12,700	-12,730	-12,700	-12,730	-12,720		
20	64 West	120	-1,120	-7,140	-12,810	-12,830	-12,830	-12,840	-12,840		
21	56 Stbd	0	-20	-10	-0	-4,760	-9,580	-14,390	-19,230		
22	56 East	130	-7,830	-7,690	-13,690	-13,690	-13,690	-13,700	-13,700		
23	56 West	-300	-7,960	-7,730	-13,680	-13,670	-13,660	-13,660	-13,660		
24	48 Stbd	0	-40	-30	-0	-3,920	-7,650	-11,800	-15,710		
25	48 Keel	40	-14,430	-14,450	-24,260	-24,240	-24,230	-24,240	-24,220		
26	40 Stbd	70	0	-0	-0	-2,100	-4,160	-6,220	-8,300		
27	40 Keel	10	-16,830	-16,830	-22,000	-22,000	-22,000	-22,010	-21,980		
28	24 Stbd	-1,180	-360	110	160	3,200	6,310	9,370	12,460		
29	24 East	-16,230	-3,840	-4,000	-50	300	820	1,350	1,850		
30	24 West	-20,830	-12,580	-12,770	-9,120	-9,450	-9,960	-10,470	-10,970		
31	16 Stbd	750	640	10	0	4,230	8,490	12,750	17,000		
32	16 East	160	-4,440	-4,450	820	810	820	820	830		
33	16 West	-260	-4,700	-4,560	660	660	660	660	660		
34	8 Stbd	100	0	0	0	2,240	4,470	6,700	8,950		
35	8 Keel	160	-2,590	-2,810	2,680	2,680	2,690	2,690	2,690		
36	8 Surge	-2,560	-1,100	-1,110	-810	-760	-760	-760	-760		

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)										
		+50% ↑	+60% ↑	+70% ↑	+80% ↑	+70% ↓	+60% ↓	+50% ↓	+40% ↓			
5	108 Stbd	14,970	17,960	20,980	23,980	21,000	17,980	14,990	11,960			
6	108 Keel	4,180	4,170	4,170	4,160	4,180	4,160	4,180	4,170			
7	98 Stbd	20,490	24,580	28,680	32,770	28,690	24,600	20,500	16,390			
8	98 East	-860	-870	-880	-880	-870	-870	-870	-870			
9	98 West	-760	-760	-760	-760	-760	-760	-770	-770			
10	92 Stbd	9,590	11,520	13,460	15,400	13,470	11,530	9,600	7,670			
11	92 Keel	-6,730	-6,730	-6,720	-6,730	-6,730	-6,710	-6,720	-6,720			
12	86 Stbd	2,710	3,480	4,190	4,970	4,470	3,910	3,260	2,660			
13	86 Keel	-12,070	-11,960	-11,850	-11,750	-11,840	-11,920	-12,130	-12,270			
14	80 Stbd	-4,610	-5,560	-6,500	-7,400	-6,490	-5,560	-4,630	-3,710			
15	80 Keel	-16,180	-16,170	-16,150	-16,110	-16,100	-16,170	-16,210	-16,220			
16	72 Stbd	-15,320	-18,360	-21,470	-24,700	-21,620	-18,530	-15,460	-12,370			
17	72 Keel	-21,000	-21,000	-21,000	-21,010	-21,010	-21,000	-21,000	-21,000			
18	64 Stbd	-22,470	-26,980	-31,480	-35,980	-31,470	-26,980	-22,460	-17,940			
19	64 East	-12,710	-12,710	-12,700	-12,690	-12,700	-12,710	-12,700	-12,700			
20	64 West	-12,830	-12,830	-12,840	-12,840	-12,810	-12,790	-12,760	-12,760			
21	56 Stbd	-24,020	-28,870	-33,680	-38,500	-33,660	-28,850	-24,000	-19,200			
22	56 East	-13,690	-13,690	-13,690	-13,700	-13,700	-13,700	-13,710	-13,710			
23	56 West	-13,660	-13,660	-13,660	-13,670	-13,660	-13,690	-13,690	-13,690			
24	48 Stbd	-19,660	-23,610	-27,560	-31,490	-27,570	-23,630	-19,700	-15,700			
25	48 Keel	-24,230	-24,220	-24,240	-24,230	-24,200	-24,220	-24,210	-24,220			
26	40 Stbd	-10,330	-12,390	-14,460	-16,500	-14,410	-12,390	-10,340	-8,290			
27	40 Keel	-22,000	-22,000	-22,020	-22,020	-22,010	-22,000	-22,010	-22,020			
28	24 Stbd	15,490	18,590	21,680	24,800	22,090	19,290	16,240	13,270			
29	24 East	2,360	2,870	3,410	3,920	4,150	4,120	3,920	3,660			
30	24 West	-11,470	-11,990	-12,520	-13,050	-13,260	-13,290	-13,150	-12,920			
31	16 Stbd	21,250	25,500	29,760	34,020	29,780	25,500	21,250	16,990			
32	16 East	830	820	830	810	810	820	830	820			
33	16 West	670	660	650	650	650	660	660	660			
34	8 Stbd	11,190	13,410	15,660	17,900	15,650	13,410	11,170	8,940			
35	8 Keel	2,700	2,690	2,690	2,690	2,690	2,690	2,700	2,710			
36	8 Surge	-790	-820	-870	-910	-930	-940	-940	-930			

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (lb)									
		+30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓		
5	108 Stbd	8,950	5,940	2,920	-30	-3,050	-6,050	-9,090	-12,060		
6	108 Keel	4,160	4,160	4,150	4,140	4,140	4,150	4,140	4,130		
7	98 Stbd	12,320	8,210	4,120	20	-4,000	-8,100	-12,180	-16,280		
8	98 East	-870	-870	-870	-870	-870	-860	-860	-860		
9	98 West	-770	-770	-760	-760	-760	-760	-760	-750		
10	92 Stbd	5,750	3,800	1,870	-0	-1,940	-3,870	-5,800	-7,750		
11	92 Keel	-6,720	-6,730	-6,730	-6,740	-6,750	-6,750	-6,770	-6,770		
12	86 Stbd	1,990	1,400	610	20	-580	-1,310	-2,200	-2,970		
13	86 Keel	-12,430	-12,570	-12,660	-12,660	-12,660	-12,740	-12,910	-13,090		
14	80 Stbd	-2,770	-1,850	-930	-0	880	1,800	2,730	3,660		
15	80 Keel	-16,190	-16,180	-16,200	-16,260	-16,280	-16,300	-16,280	-16,250		
16	72 Stbd	-9,270	-6,190	-3,100	-70	2,940	6,030	9,280	12,370		
17	72 Keel	-20,990	-21,000	-21,020	-21,020	-21,010	-21,020	-21,000	-21,000		
18	64 Stbd	-13,420	-8,930	-4,430	0	4,490	9,010	13,520	18,020		
19	64 East	-12,690	-12,680	-12,690	-12,700	-12,720	-12,700	-12,700	-12,700		
20	64 West	-12,750	-12,740	-12,700	-12,740	-12,740	-12,740	-12,740	-12,740		
21	56 Stbd	-14,380	-9,560	-4,740	-10	4,730	9,540	14,370	19,180		
22	56 East	-13,700	-13,700	-13,720	-13,700	-13,710	-13,720	-13,720	-13,710		
23	56 West	-13,690	-13,690	-13,680	-13,690	-13,690	-13,660	-13,660	-13,660		
24	48 Stbd	-11,550	-7,430	-3,890	0	3,900	7,830	11,770	15,710		
25	48 Keel	-24,210	-24,210	-24,210	-24,220	-24,210	-24,220	-24,210	-24,220		
26	40 Stbd	-6,210	-4,170	-2,100	-0	2,020	4,080	6,130	8,180		
27	40 Keel	-22,030	-22,010	-22,010	-22,010	-22,010	-22,030	-22,020	-22,010		
28	24 Stbd	10,230	7,280	4,030	900	-2,120	-5,200	-8,340	-11,410		
29	24 East	3,360	2,960	2,450	1,830	1,120	540	130	-280		
30	24 West	-12,640	-12,240	-11,700	-11,040	-10,310	-9,720	-9,300	-8,930		
31	16 Stbd	12,750	8,470	4,230	-0	-4,240	-8,490	-12,740	-17,000		
32	16 East	820	820	820	820	830	820	820	800		
33	16 West	660	650	650	660	660	660	660	650		
34	8 Stbd	6,710	4,470	2,223	0	-2,180	-4,410	-6,650	-8,890		
35	8 Keel	2,710	-2,710	-2,720	-2,710	-2,710	2,710	-2,720	-2,700		
36	8 Surge	-910	-900	-880	-820	-790	-820	-850	-880		

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HOG-SAG (1b)									
		Percent Load									
		-50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑		
5	108 Stbd	-15,090	-18,090	-21,120	-24,110	-21,110	-18,100	-15,100	-12,080		
6	108 Keel	4,120	4,120	4,110	4,130	4,130	4,120	4,120	4,130		
7	98 Stbd	-20,370	-24,450	-28,540	-32,630	-28,240	-24,460	-20,370	-16,290		
8	98 East	-860	-860	-860	-860	-860	-870	-870	-860		
9	98 West	-760	-760	-760	-780	-780	-750	-750	-740		
10	92 Stbd	-9,670	-11,610	-13,540	-15,480	-13,470	-11,620	-9,680	-7,740		
11	92 Keel	-6,770	-6,750	-6,760	-6,750	-6,750	-6,760	-6,760	-6,750		
12	86 Stbd	-3,750	-4,530	-5,300	-6,070	-5,650	-5,050	-4,350	-3,620		
13	86 Keel	-13,200	-13,300	-13,380	-13,500	-13,490	-13,410	-13,260	-13,100		
14	80 Stbd	4,580	5,510	6,430	7,350	6,430	5,510	4,590	3,670		
15	80 Keel	-16,260	-16,290	-16,370	-16,370	-16,310	-16,270	-16,260	-16,250		
16	72 Stbd	15,450	18,550	21,620	24,710	21,660	18,570	15,470	12,400		
17	72 Keel	-21,000	-21,000	-21,020	-21,000	-21,000	-21,020	-21,036	-21,020		
18	64 Stbd	22,520	27,040	31,560	36,050	31,610	27,090	22,550	18,030		
19	64 East	-12,690	-12,690	-12,710	-12,700	-12,700	-12,700	-12,690	-12,700		
20	64 West	-12,720	-12,790	-12,730	-12,730	-12,730	-12,790	-12,830	-12,820		
21	56 Stbd	23,970	28,800	33,630	38,420	33,640	28,830	23,970	19,180		
22	56 East	-13,700	-13,710	-13,720	-13,720	-13,720	-13,730	-13,730	-13,730		
23	56 West	-13,660	-13,680	-13,700	-13,670	-13,660	-13,660	-13,630	-13,630		
24	48 Stbd	19,650	23,580	27,510	31,420	27,510	23,590	19,650	15,710		
25	48 Keel	-24,220	-24,220	-24,230	-24,220	-24,240	-24,220	-24,230	-24,230		
26	40 Stbd	10,230	12,290	14,330	16,390	14,350	12,300	10,250	8,180		
27	40 Keel	-22,000	-22,020	-22,020	-22,020	-22,030	-22,030	-22,010	-22,040		
28	24 Stbd	-14,480	-17,600	-20,630	-23,650	-21,000	-18,140	-15,140	-12,120		
29	24 East	-790	-1,250	-1,680	-2,110	-2,350	-2,360	-2,170	-1,930		
30	24 West	-8,450	-8,020	-7,620	-7,240	-6,940	-6,900	-7,000	-7,190		
31	16 Stbd	-21,250	-25,490	-29,750	-34,020	-29,770	-25,510	-21,280	-17,020		
32	16 East	800	800	810	810	810	810	810	810		
33	16 West	650	660	660	660	660	660	660	650		
34	8 Stbd	-11,130	-13,370	-15,600	-17,850	-15,600	-13,360	-11,130	-8,890		
35	8 Keel	2,700	2,720	2,710	2,710	2,710	2,700	2,700	2,700		
36	8 Surge	-910	-920	-940	-950	-930	-910	-910	-880		

TABLE D.6 (Continued)

BAFCO No.	Load Cell	Load Condition, HCG-SAG (1b)					Still Water + Zero Stress	Zero	Unlock
		Percent Load			-10%+	-20%+			
		-30%+	-20%+	-10%+					
5	108 Stbd	-9,100	-6,050	-3,050	-30	-40	-40		
6	108 Keel	4,130	4,140	4,140	4,130	-2,340	0		
7	98 Stbd	-12,190	-8,110	-4,010	10	20	20		
8	98 East	-850	-870	-860	-860	-5,970	0		
9	98 West	-750	-770	-770	-760	-5,900	120		
10	92 Stbd	-5,810	-3,880	-1,940	-0	0	0		
11	92 Keel	-6,760	-6,750	-6,740	-6,730	-11,300	-330		
12	86 Stbd	-2,880	-2,190	-1,450	-790	-720	-1,490		
13	86 Keel	-12,920	-12,780	-12,740	-12,720	-14,720	-50,190		
14	80 Stbd	2,730	1,800	870	-0	-0	0		
15	80 Keel	-16,280	-16,260	-16,200	-16,170	-13,880	-120		
16	72 Stbd	9,290	6,210	3,130	40	40	40		
17	72 Keel	-21,020	-21,020	-21,030	-21,030	-13,420	-110		
18	64 Stbd	13,540	9,020	4,510	0	0	0		
19	64 East	-12,700	-12,700	-12,680	-12,690	-7,070	40		
20	64 West	-12,820	-12,830	-12,830	-12,820	-7,180	110		
21	56 Stbd	14,360	9,540	4,740	-0	0	0		
22	56 East	-13,740	-13,730	-13,720	-13,730	-7,740	220		
23	56 West	-13,630	-13,650	-13,650	-13,650	-7,700	10		
24	48 Stbd	11,770	7,830	3,900	0	0	0		
25	48 Keel	-24,230	-24,230	-24,230	-24,220	-14,420	60		
26	40 Stbd	6,130	4,080	2,020	-0	0	0		
27	40 Keel	-22,030	-22,050	-22,030	-22,030	-16,880	-30		
28	24 Stbd	-9,100	-6,070	-2,990	20	70	-470		
29	24 East	-1,620	-1,220	-720	-140	-3,870	-16,960		
30	24 West	-7,470	-7,850	-8,380	-9,010	-12,930	-19,830		
31	16 Stbd	-12,760	-8,480	-4,230	0	0	0		
32	16 East	830	820	820	800	-4,500	50		
33	16 West	660	650	650	650	-4,560	-110		
34	8 Stbd	-6,660	-4,420	-2,180	0	0	0		
35	8 Keel	2,700	2,700	2,700	2,700	-2,300	-40		
36	8 Surge	-850	-800	-780	-800	-970	2,460		

TABLE D.7 - ASEM STATIC TEST 3--MEASURED LOADS

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)										
		UnLock	Zero Stress	Still Water + Zero Stress	Lateral Offset	Percent Load			+10%†	+20%†	+30%†	+40%†
5	108 Stbd	-250	0	0	20,750	19,100	17,120	14,750	11,950			
6	108 Keel	-90	-3,460	4,060	4,070	-1,900	-7,890	-13,900	-19,920			
7	98 Stbd	140	0	10	28,330	26,060	23,350	20,120	16,350			
8	98 East	0	-5,940	-810	-800	-4,900	-9,000	-13,090	-17,180			
9	98 West	90	-5,940	-1,000	-860	-4,950	-9,050	-13,150	-17,300			
10	92 Stbd	230	70	0	13,350	12,280	11,000	9,450	7,690			
11	92 Keel	-470	-11,000	-6,880	-6,890	-10,620	-14,380	-18,090	-21,810			
12	86 Stbd	500	0	-600	3,680	3,190	2,200	1,940	1,440			
13	86 Keel	-45,790	-13,900	-11,780	-11,150	-13,380	-15,520	-17,710	-19,720			
14	80 Stbd	0	-30	0	-6,370	-5,860	-5,250	-4,520	-3,680			
15	80 Keel	-80	-13,880	-16,160	-16,080	-14,240	-17,400	-10,510	-8,620			
16	72 Stbd	140	0	0	-21,350	-19,640	-17,570	-15,120	-12,270			
17	72 Keel	-210	-13,470	-21,140	-21,160	-15,030	-8,940	-2,760	3,630			
18	64 Stbd	790	20	30	-31,100	-28,600	-25,630	-22,040	-17,900			
19	64 East	20	-7,070	-12,700	-12,680	-8,200	-3,690	800	5,330			
20	64 West	120	-7,060	-12,610	-12,650	-8,220	-3,720	850	5,310			
21	56 Stbd	840	0	0	-33,300	-30,620	-27,420	-23,580	-19,150			
22	56 East	400	-7,630	-13,640	-13,610	-8,800	-4,070	1,060	5,830			
23	56 West	550	-7,570	-13,920	-13,940	-8,590	-3,470	1,560	6,230			
24	48 Stbd	270	0	0	-26,140	-24,060	-21,540	-18,560	-15,760			
25	48 Keel	730	-14,400	-24,160	-24,140	-16,300	-8,450	-610	7,320			
26	40 Stbd	100	0	0	-14,250	-13,110	-11,750	-10,110	-8,230			
27	40 Keel	3,000	-16,750	-22,040	-22,050	-17,830	-13,580	-9,350	-5,140			
28	24 Stbd	1,120	990	400	20,940	19,370	17,580	15,100	12,900			
29	24 East	-14,030	-3,980	780	3,800	370	-1,950	-5,250	-9,540			
30	24 West	-19,340	-12,630	-8,900	-11,980	-15,380	-19,100	-23,170	-27,090			
31	16 Stbd	-930	0	10	29,380	27,050	24,100	20,800	17,090			
32	16 East	20	-4,510	770	780	-3,500	-7,670	-11,900	-16,170			
33	16 West	-360	-4,650	640	760	-3,400	-7,600	-11,800	-16,090			
34	8 Stbd	0	0	0	15,460	14,240	12,760	11,000	9,450			
35	8 Keel	-110	-2,840	2,760	2,790	-1,700	-4,120	-6,500	-8,900			
36	8 Surge	-2,840	-1,470	-1,000	-1,060	-1,100	-1,100	-1,100	-1,100			



TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag. (lb)									
		+50% †	+60% †	+70% †	+80% †	+70% †	+60% †	+50% †	+40% †		
5	108 Stbd	8,700	4,690	-4,400	-12,050	-20,600	-22,840	-23,800	-24,070		
6	108 Keel	-25,930	-31,920	-37,920	-43,920	-37,900	-31,900	-25,910	-19,940		
7	98 Stbd	11,900	6,470	-550	-16,300	-27,960	-30,940	-32,260	-32,610		
8	98 East	-21,290	-25,400	-29,490	-33,580	-29,470	-25,380	-21,300	-17,180		
9	98 West	-21,400	-25,490	-29,600	-33,780	-29,640	-25,520	-21,420	-17,290		
10	92 Stbd	5,580	3,010	-290	-7,740	-13,200	-14,700	-15,300	-15,400		
11	92 Keel	-25,600	-29,780	-33,530	-37,200	-33,840	-30,120	-26,400	-22,250		
12	86 Stbd	720	-40	-1,010	-3,190	-5,140	-5,600	-5,910	-6,040		
13	86 Keel	-21,210	-22,220	-23,780	-24,800	-22,670	-20,750	-19,300	-18,100		
14	80 Stbd	-2,670	-1,450	80	3,640	6,240	6,900	7,200	7,280		
15	80 Keel	-6,770	-4,880	-3,020	-1,140	-2,970	-5,100	-6,950	-8,860		
16	72 Stbd	-8,900	-4,800	450	12,390	21,230	23,500	24,520	24,790		
17	72 Keel	9,750	15,900	22,000	28,140	22,270	16,180	10,040	3,910		
18	64 Stbd	-12,990	-7,000	710	18,090	30,980	34,260	35,740	36,130		
19	64 East	9,850	14,360	18,890	23,400	18,890	14,380	9,860	5,340		
20	64 West	9,760	14,220	18,690	23,120	18,670	14,240	9,780	5,330		
21	56 Stbd	-13,940	-7,550	640	19,190	32,930	36,420	38,010	38,430		
22	56 East	10,350	15,110	19,940	24,700	19,940	15,110	10,340	5,510		
23	56 West	11,050	15,510	20,330	25,080	19,770	14,720	9,940	5,000		
24	48 Stbd	-11,680	-6,410	60	15,090	26,890	29,740	31,030	31,360		
25	48 Keel	15,150	23,020	30,850	38,670	30,840	23,000	15,160	7,330		
26	40 Stbd	-6,000	-3,270	300	8,210	14,070	15,570	16,240	16,420		
27	40 Keel	-1,270	3,090	7,310	10,970	6,970	2,960	-1,180	-5,210		
28	24 Stbd	9,770	5,800	950	-10,090	-19,070	-21,480	-22,730	-23,260		
29	24 East	-13,100	-17,000	-21,230	-26,640	-25,080	-22,480	-19,600	-16,460		
30	24 West	-26,210	-28,270	-29,910	-29,500	-24,850	-21,360	-18,320	-15,520		
31	16 Stbd	12,350	6,720	-550	-16,910	-29,020	-32,090	-33,490	-33,850		
32	16 East	-20,410	-24,630	-28,860	-33,100	-28,860	-24,610	-20,340	-16,160		
33	16 West	-20,330	-24,590	-28,840	-33,110	-28,840	-24,600	-20,360	-16,080		
34	8 Stbd	6,510	3,540	-270	-8,890	-15,270	-16,910	-17,650	-17,840		
35	8 Keel	-19,540	-24,020	-28,470	-32,940	-28,470	-24,000	-19,560	-15,070		
36	8 Surge	-2,230	-2,440	-2,690	-3,020	-3,180	-3,170	-3,040	-2,760		

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (lb)							
		+30%+	+20%+	+10%+	Still Water	-10%+	-20%+	-30%+	-40%+
5	108 Stbd	-23,800	-23,200	-22,200	-20,820	-19,170	-17,190	-14,810	-12,020
6	108 Keel	-13,900	-7,940	-1,940	4,060	10,050	16,040	22,050	28,060
7	98 Stbd	-32,300	-31,500	-30,100	-28,280	-26,030	-23,300	-20,060	-16,300
8	98 East	-13,090	-8,990	-4,900	-810	3,280	7,370	11,460	15,550
9	98 West	-13,170	-9,080	-4,980	-860	3,240	7,360	11,460	15,580
10	92 Stbd	-15,300	-14,910	-14,100	-13,400	-12,300	-11,030	-9,500	-7,730
11	92 Keel	-18,500	-14,800	-10,840	-7,040	-3,500	650	4,500	8,660
12	86 Stbd	-6,100	-6,000	-5,850	-5,780	-5,800	-5,520	-5,110	-4,530
13	86 Keel	-16,540	-14,520	-13,450	-12,150	-10,400	-9,170	-7,770	-6,450
14	80 Stbd	7,220	7,020	6,700	6,310	5,800	5,200	4,470	3,640
15	80 Keel	-10,740	-12,600	-14,470	-16,340	-18,210	-20,090	-21,990	-23,900
16	72 Stbd	24,540	23,900	22,850	21,460	19,760	17,700	15,240	12,380
17	72 Keel	-2,200	-8,660	-14,780	-20,910	-27,070	-33,160	-39,300	-45,430
18	64 Stbd	35,780	34,840	33,330	31,320	28,850	25,860	22,260	18,100
19	64 East	840	-3,640	-8,160	-12,660	-17,160	-21,710	-26,340	-30,900
20	64 West	900	-3,700	-8,150	-12,610	-17,100	-21,670	-26,050	-30,520
21	56 Stbd	38,040	37,040	35,420	33,280	30,630	27,440	23,610	19,200
22	56 East	740	-4,330	-8,870	-13,690	-18,430	-23,310	-28,000	-32,800
23	56 West	-20	-4,940	-9,620	-14,020	-18,760	-23,780	-28,200	-33,180
24	48 Stbd	31,050	30,240	28,920	27,170	25,000	22,400	19,300	15,700
25	48 Keel	-640	-8,410	-16,280	-24,100	-31,950	-39,800	-47,640	-55,500
26	40 Stbd	16,250	15,830	15,150	14,230	13,100	11,750	10,120	8,230
27	40 Keel	-9,220	-13,660	-17,860	-21,990	-26,180	-30,320	-34,480	-38,640
28	24 Stbd	-23,290	-22,760	-21,940	-20,780	-19,400	-17,500	-15,210	-12,600
29	24 East	-13,200	-9,470	-6,200	-2,880	-50	3,400	6,630	9,830
30	24 West	-12,890	-10,300	-7,890	-5,370	-2,340	250	2,900	5,830
31	16 Stbd	-33,530	-32,650	-31,120	-29,300	-26,960	-24,150	-20,800	-16,920
32	16 East	-11,890	-7,690	-3,460	800	5,030	9,260	13,490	17,720
33	16 West	-11,840	-7,590	-3,340	840	5,090	9,330	13,580	17,840
34	8 Stbd	-17,670	-17,200	-16,470	-15,440	-14,210	-12,730	-10,950	-8,880
35	8 Keel	-1,059	-6,120	-1,640	2,840	7,320	11,800	16,270	20,740
36	8 Surge	-2,410	-2,040	-1,700	-1,410	-1,120	-1,000	-700	-300

TABLE D.7 (Continued)

BAFCO No.	Load Cell	Load Condition, 60 Degree Lag (1b)									
		-50%+	-60%+	-70%+	-80%+	-70%+	-60%+	-50%+	-40%+		
5	108 Stbd	-8,780	-4,780	350	11,930	20,520	22,700	23,700	23,960		
6	108 Keel	34,060	40,040	46,050	52,040	46,050	40,050	34,050	28,040		
7	98 Stbd	-11,870	-6,440	570	16,350	28,040	31,020	32,350	32,710		
8	98 East	19,640	23,730	27,830	31,930	27,850	23,770	19,670	15,580		
9	98 West	19,700	23,810	27,970	32,090	27,980	23,850	19,720	15,640		
10	92 Stbd	-5,640	-3,060	220	7,670	13,180	14,600	15,230	15,400		
11	92 Keel	12,380	16,110	20,170	23,930	20,210	16,470	12,730	9,010		
12	86 Stbd	-3,750	-2,630	-1,070	2,880	5,220	5,700	5,980	5,820		
13	86 Keel	-4,580	-2,600	-1,080	1,750	650	-910	-2,740	-4,620		
14	80 Stbd	2,650	1,420	-130	-3,660	-6,300	-6,980	-7,260	-7,340		
15	80 Keel	-25,730	-27,600	-29,200	-31,050	-29,170	-27,320	-25,480	-2,363		
16	72 Stbd	9,020	4,900	-350	-12,300	-21,150	-23,400	-24,430	-24,700		
17	72 Keel	-51,570	-58,060	-64,170	-70,290	-64,180	-58,060	-51,940	-4,581		
18	64 Stbd	13,200	7,200	-520	-17,910	-30,740	-34,020	-35,500	-35,900		
19	64 East	-35,400	-39,920	-44,410	-48,930	-44,410	-39,880	-35,370	-30,860		
20	64 West	-34,900	-39,450	-44,220	-48,730	-44,230	-39,760	-35,270	-30,770		
21	56 Stbd	13,970	7,570	-630	-19,190	-32,960	-36,450	-38,040	-38,460		
22	56 East	-37,700	-42,470	-47,290	-52,060	-47,280	-42,450	-37,700	-32,800		
23	56 West	-38,120	-42,600	-47,510	-52,410	-47,510	-42,620	-37,720	-32,810		
24	48 Stbd	11,430	6,220	-500	-15,600	-26,440	-29,290	-31,040	-31,400		
25	48 Keel	-63,340	-71,190	-79,040	-86,880	-78,920	-71,060	-63,220	-55,380		
26	40 Stbd	6,000	3,280	-300	-8,220	-14,070	-15,600	-16,260	-16,400		
27	40 Keel	-42,800	-46,950	-50,780	-54,950	-50,780	-46,640	-42,490	-38,310		
28	24 Stbd	-9,420	-5,470	-300	11,600	20,700	23,000	24,420	24,750		
29	24 East	13,150	16,580	20,090	25,070	23,550	20,960	18,440	15,700		
30	24 West	8,600	11,240	13,850	15,360	11,170	7,610	4,020	560		
31	16 Stbd	-12,280	-6,670	610	16,940	28,980	32,060	33,440	33,830		
32	16 East	21,950	26,170	30,400	34,630	30,400	26,150	21,920	17,700		
33	16 West	22,080	26,330	30,580	34,830	30,570	26,320	22,070	17,820		
34	8 Stbd	-6,450	-3,480	330	8,950	15,340	16,960	17,700	17,900		
35	8 Keel	25,230	29,690	34,160	38,580	34,120	29,670	25,200	20,730		
36	8 Surge	50	420	710	970	470	370	110	-110		

TABLE D.7 (Continued)  
Load Condition, 60 Degree Lag (1b)

BAFCO No.	Load Cell	Percent Load			Lateral Offset	Still Water+Zero Stress	Zero	Lock
		-30% †	-20% †	-10% †				
		5	108 Stbd	23,710				
6	108 Keel	22,060	16,050	10,070	4,100	4,070	-50	
7	98 Stbd	32,400	31,550	30,160	28,330	0	0	
8	98 East	11,460	7,400	3,300	-800	-800	80	
9	98 West	11,490	7,390	3,250	-840	-860	10	
10	92 Stbd	15,240	14,850	14,200	13,340	0	0	
11	92 Keel	5,270	1,180	-2,580	-6,580	-6,600	-100	
12	86 Stbd	5,410	5,090	4,610	4,130	-170	-70	
13	86 Keel	-6,530	-8,170	-10,160	-11,660	-12,270	-47,970	
14	80 Stbd	-7,270	-7,080	-6,770	-6,350	0	0	
15	80 Keel	-21,740	-19,870	-18,020	-16,170	-16,220	-60	
16	72 Stbd	-24,440	-23,790	-22,760	-21,360	0	0	
17	72 Keel	-39,660	-33,530	-27,410	-21,280	-21,270	-380	
18	64 Stbd	-35,550	-34,600	-33,100	-31,070	90	100	
19	64 East	-26,360	-21,670	-17,230	-12,670	-12,660	70	
20	64 West	-26,270	-21,730	-17,260	-12,730	-12,650	120	
21	56 Stbd	-38,070	-37,070	-35,450	-33,290	0	0	
22	56 East	-27,990	-32,080	-18,450	-13,700	-13,690	250	
23	56 West	-27,950	-23,070	-18,180	-13,540	-13,570	750	
24	48 Stbd	-31,080	-30,260	-28,940	-27,160	330	0	
25	48 Keel	-57,530	-39,700	-31,870	-24,040	-24,000	260	
26	40 Stbd	-16,260	-15,840	-15,150	-14,220	20	10	
27	40 Keel	-34,170	-30,030	-25,860	-21,700	-21,700	480	
28	24 Stbd	24,600	24,040	23,110	21,800	730	540	
29	24 East	12,700	9,860	6,940	4,020	190	-16,760	
30	24 West	-2,520	-5,970	-9,280	-12,440	-10,510	-19,540	
31	16 Stbd	3,348	32,600	31,170	29,270	-30	-20	
32	16 East	13,480	9,250	5,020	810	800	60	
33	16 West	13,600	9,330	5,080	840	840	80	
34	8 Stbd	17,710	1,725	16,500	15,490	0	0	
35	8 Keel	16,260	11,790	7,320	2,840	2,840	30	
36	8 Surge	-350	-530	-790	-1,040	-1,040	-2,760	

TABLE D.8 - ASEM STATIC TEST 4--MEASURED LOADS

		Load Condition, 240 Degree Lag (lb)									
BAFCO No.	Load Cell	Unlock	Zero Stress	Still Water+Zero Stress	Lateral Offset	Percent Load					
						+10%↑	+20%↑	+30%↑	+40%↑		
5	108 Stbd	-1,030	0	-30	-20,860	-19,200	-17,200	-14,830	-12,060		
6	108 Keel	-170	-3,500	4,110	4,080	-1,900	-7,930	-13,920	-19,940		
7	98 Stbd	0	0	0	-28,320	-26,070	-23,350	-20,110	-16,360		
8	98 East	-2,200	-5,980	-870	-870	-4,970	-9,050	-13,180	-17,230		
9	98 West	130	-6,090	-970	-990	-5,050	-9,170	-13,260	-17,290		
10	92 Stbd	0	-30	-20	-13,400	-12,400	-11,070	-9,530	-7,760		
11	92 Keel	-690	-11,640	-7,060	-6,720	-10,400	-14,050	-18,130	-21,780		
12	86 Stbd	2,510	-110	-420	-6,050	-4,780	-4,250	-3,510	-2,840		
13	86 Keel	-49,110	-13,780	-11,790	-12,940	-14,330	-15,650	-17,270	-18,870		
14	80 Stbd	-1,890	0	0	6,350	5,840	5,230	4,500	3,660		
15	80 Keel	320	-13,890	-16,240	-16,280	-14,400	-12,510	-10,650	-8,780		
16	72 Stbd	-150	0	-0	21,320	19,630	17,580	15,130	12,300		
17	72 Keel	-100	-13,480	-21,170	-21,190	-15,050	-8,930	-2,470	3,640		
18	64 Stbd	40	30	30	31,270	28,790	25,800	22,200	18,060		
19	64 East	80	-7,020	-12,650	-12,650	-8,160	-3,640	840	5,340		
20	64 West	180	-7,000	-12,690	-12,690	-8,180	-3,660	920	5,400		
21	56 Stbd	0	0	-0	33,280	30,640	27,460	23,620	19,190		
22	56 East	4,390	-7,680	-13,670	-13,680	-8,870	-4,090	970	5,740		
23	56 West	180	-7,640	-13,610	-13,640	-8,860	-4,090	770	5,540		
24	48 Stbd	0	0	0	29,530	25,000	22,400	19,300	15,680		
25	48 Keel	-200	-14,400	-24,220	-24,180	-16,340	-8,510	-680	7,240		
26	40 Stbd	60	0	-0	14,220	13,090	11,750	10,110	8,220		
27	40 Keel	420	-16,740	-21,940	-21,920	-17,800	-13,690	-9,560	-5,430		
28	24 Stbd	120	400	280	-21,970	-19,040	-17,160	-14,820	-12,160		
29	24 East	16,370	3,240	-620	1,540	5,390	8,900	12,030	14,980		
30	24 West	-20,540	-12,610	-9,130	-7,100	-9,120	-11,460	-14,590	-17,710		
31	16 Stbd	-120	0	0	-29,370	-27,040	-24,220	-20,860	-16,950		
32	16 East	-10	-4,630	650	640	-3,600	-7,860	-12,110	-16,310		
33	16 West	-240	-4,650	510	490	-3,690	-7,920	-12,190	-16,470		
34	8 Stbd	0	0	0	-15,430	-14,200	-12,710	-10,940	-8,890		
35	8 Keel	-90	-2,820	2,690	2,700	-1,730	-6,140	-10,560	-14,980		
36	8 Surge	-4,560	-1,400	-950	-1,040	-1,220	-1,370	-1,500	-1,680		

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)									
		+50%↑	+60%↑	+70%↑	+80%↑	+70%↑	+60%↑	+50%↑	+40%↑		
5	108 Stbd	-8,800	-4,790	330	11,920	20,520	22,700	23,700	23,960		
6	108 Keel	-25,930	-31,940	-37,920	-43,930	-37,920	-31,920	-25,940	-19,940		
7	98 Stbd	-11,900	-6,470	530	16,300	27,990	30,970	32,310	32,670		
8	98 East	-21,320	-25,460	-29,520	-33,610	-29,520	-25,430	-21,300	-17,250		
9	98 West	-21,400	-25,500	-29,610	-33,690	-29,620	-25,510	-21,400	-17,320		
10	92 Stbd	-5,660	-3,090	200	7,650	13,180	14,580	15,220	15,390		
11	92 Keel	-25,880	-29,700	-33,390	-37,420	-33,390	-30,110	-26,420	-22,340		
12	86 Stbd	-2,100	-1,300	-470	1,340	2,910	3,470	3,830	4,050		
13	86 Keel	-20,010	-21,470	-23,360	-25,030	-23,660	-21,960	-20,210	-18,690		
14	80 Stbd	2,660	1,430	-120	-3,660	-6,300	-6,970	-7,280	-7,360		
15	80 Keel	-6,970	-5,090	-3,210	-1,390	-3,180	-5,080	-6,930	-8,810		
16	72 Stbd	8,940	4,850	-370	-12,260	-21,050	-23,300	-24,310	-24,580		
17	72 Keel	9,780	15,940	22,030	28,180	22,080	15,980	9,810	3,660		
18	64 Stbd	13,140	7,120	-580	-17,950	-30,810	-34,100	-35,580	-35,970		
19	64 East	9,850	14,380	18,890	23,370	18,870	14,380	9,850	5,340		
20	64 West	9,870	14,350	18,850	23,300	18,820	14,340	9,910	5,390		
21	56 Stbd	13,970	-7,560	-630	-19,190	-32,950	-36,460	-38,060	-38,470		
22	56 East	10,560	15,110	19,970	24,700	19,940	15,090	10,360	5,510		
23	56 West	10,350	15,080	19,870	24,640	19,910	15,130	10,340	5,590		
24	48 Stbd	11,400	6,190	-540	-15,670	-26,880	-29,730	-31,030	-31,360		
25	48 Keel	15,070	22,900	30,750	38,590	30,760	22,910	15,100	7,240		
26	40 Stbd	5,990	3,250	-330	-8,250	-14,100	-15,610	-16,300	-16,490		
27	40 Keel	-1,320	2,910	7,060	11,150	7,050	2,920	-1,320	-5,460		
28	24 Stbd	-9,030	-5,220	-270	10,700	19,510	22,060	23,460	24,090		
29	24 East	17,920	20,580	22,970	24,410	19,240	14,950	10,930	7,310		
30	24 West	-21,140	-24,660	-28,540	-33,550	-33,070	-31,390	-29,300	-26,810		
31	16 Stbd	-12,330	-6,700	590	16,980	29,110	32,210	33,610	33,970		
32	16 East	-20,550	-24,800	-29,040	-33,290	-29,040	-24,780	-20,550	-16,310		
33	16 West	-20,480	-24,730	-28,990	-33,230	-28,980	-24,720	-20,500	-16,260		
34	8 Stbd	-6,450	-3,490	320	8,940	15,330	16,950	17,680	17,880		
35	8 Keel	-19,430	-23,840	-28,270	-32,690	-28,260	-23,850	-19,440	-15,010		
36	8 Surge	-1,850	-2,100	-2,450	-2,650	-2,780	-2,800	-2,670	-2,380		

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)							
		Percent Load							
		+30%↓	+20%↓	+10%↓	Still Water	-10%↓	-20%↓	-30%↓	-40%↓
5	108 Stbd	23,750	23,090	22,090	20,760	19,090	17,110	14,700	11,940
6	108 Keel	-13,950	-7,960	-1,970	4,020	10,010	16,000	21,990	28,020
7	98 Stbd	32,340	31,500	30,140	28,310	26,060	23,330	20,090	16,320
8	98 East	-13,160	-9,070	-4,990	-890	3,200	7,290	11,380	15,460
9	98 West	-13,260	-9,180	-5,090	-1,000	3,100	7,210	11,300	15,390
10	92 Stbd	15,240	14,830	14,180	13,330	12,270	10,980	9,450	7,670
11	92 Keel	-18,670	-14,620	-10,930	-6,900	-3,240	810	4,490	8,560
12	86 Stbd	4,260	4,300	4,240	4,240	4,280	4,290	4,130	3,740
13	86 Keel	-16,870	-14,970	-13,040	-11,710	-9,820	-8,500	-6,660	-5,480
14	80 Stbd	-7,290	-7,090	-6,780	-6,370	-5,860	-5,250	-4,510	-3,670
15	80 Keel	-10,600	-12,500	-14,360	-16,190	-18,100	-19,890	-21,820	-23,630
16	72 Stbd	-24,330	-23,680	-22,650	-21,270	-19,580	-17,530	-15,090	-12,250
17	72 Keel	-2,470	-8,640	-14,780	-20,900	-27,080	-33,170	-39,340	-45,470
18	64 Stbd	-35,620	-34,690	-33,180	-31,150	-28,640	-25,660	-22,090	-17,950
19	64 East	830	-3,700	-8,190	-12,690	-17,200	-21,690	-26,340	-30,860
20	64 West	920	-3,790	-8,290	-12,790	-17,290	-21,790	-26,300	-30,750
21	56 Stbd	-38,090	-37,090	-35,470	-33,300	-30,640	-27,440	-23,600	-19,180
22	56 East	740	-4,340	-9,110	-13,720	-18,490	-23,340	-28,050	-32,950
23	56 West	820	-4,040	-8,810	-13,590	-18,350	-23,130	-27,910	-32,750
24	48 Stbd	-31,050	-30,220	-28,920	-27,100	-24,990	-22,390	-19,290	-15,620
25	48 Keel	-670	-8,530	-16,390	-24,220	-32,070	-39,890	-47,720	-55,540
26	40 Stbd	-16,320	-15,880	-15,190	-14,270	-13,140	-11,770	-10,150	-8,270
27	40 Keel	-9,580	-13,740	-17,860	-21,970	-26,120	-30,240	-34,370	-38,500
28	24 Stbd	24,170	23,780	22,990	21,870	20,510	18,890	16,860	14,380
29	24 East	3,920	650	-2,290	-5,550	-8,900	-12,470	-16,030	-19,390
30	24 West	-24,090	-20,960	-17,800	-14,820	-12,060	-9,470	-6,860	-4,070
31	16 Stbd	33,640	32,760	31,340	29,420	27,090	24,280	20,900	17,000
32	16 East	-12,100	-7,870	-3,650	610	4,830	9,070	13,290	17,530
33	16 West	-11,980	-7,740	-3,470	660	4,910	9,170	13,420	17,670
34	8 Stbd	17,700	17,230	16,480	15,480	14,240	12,760	10,990	8,940
35	8 Keel	-10,580	-6,150	-1,740	2,670	7,090	11,500	15,930	20,350
36	8 Surge	-2,010	-1,670	-1,340	-1,090	-940	-870	-640	-290

TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)									
		Percent Load									
		-50%†	-60%†	-70%†	-80%†	-70%†	-60%†	-50%†	-40%†		
5	108 Stbd	8,660	4,660	-480	-12,090	-20,690	-22,860	-23,840	-24,090		
6	108 Keel	34,000	40,250	46,260	52,230	46,240	40,240	34,240	28,250		
7	98 Stbd	11,870	6,440	-590	-16,340	-28,010	-31,000	-32,330	-32,690		
8	98 East	19,580	23,660	27,750	31,820	27,740	23,640	19,550	15,450		
9	98 West	19,470	23,590	27,670	31,750	27,710	23,610	19,530	15,450		
10	92 Stbd	5,570	3,010	-270	-7,730	-13,320	-14,680	-15,360	-15,490		
11	92 Keel	12,390	16,260	19,940	23,980	20,360	16,690	12,800	8,910		
12	86 Stbd	3,090	2,230	800	-3,170	-5,990	-6,580	-6,750	-6,640		
13	86 Keel	-3,900	-2,980	-1,660	-1,430	-3,880	-5,450	-6,600	-7,910		
14	80 Stbd	-2,660	-1,440	110	3,660	6,290	6,960	-7,250	7,350		
15	80 Keel	-25,500	-27,380	-29,250	-31,070	-29,220	-27,320	-25,530	-23,670		
16	72 Stbd	-8,910	-4,810	410	12,290	21,100	25,340	24,350	24,610		
17	72 Keel	-51,830	-57,980	-64,090	-70,240	-64,120	-58,010	-51,850	-45,730		
18	64 Stbd	-13,030	-7,030	650	18,040	30,930	34,200	35,690	36,070		
19	64 East	-35,370	-39,870	-44,410	-48,910	-44,400	-39,900	-35,400	-30,870		
20	64 West	-35,150	-39,580	-44,070	-48,520	-44,020	-39,500	-35,100	-30,600		
21	56 Stbd	-13,940	-7,560	630	19,190	32,950	36,440	38,020	38,450		
22	56 East	-37,790	-42,520	-47,350	-52,150	-47,370	-42,510	-37,790	-32,900		
23	56 West	-37,590	-42,520	-47,300	-52,100	-47,300	-42,520	-37,810	-32,970		
24	48 Stbd	-11,340	-6,100	560	15,700	26,920	29,790	31,070	31,410		
25	48 Keel	-63,400	-71,240	-79,090	-86,940	-79,090	-71,260	-63,450	-55,570		
26	40 Stbd	-6,030	-3,290	270	8,200	14,070	15,570	16,250	16,430		
27	40 Keel	-42,620	-46,750	-50,890	-55,010	-50,890	-46,750	-42,650	-38,490		
28	24 Stbd	11,300	7,480	2,260	-9,770	-18,990	-21,530	-22,800	-23,300		
29	24 East	-22,260	-25,410	-27,660	-28,380	-23,270	-18,910	-14,860	-11,070		
30	24 West	-1,270	1,730	5,600	10,330	9,380	7,820	5,990	3,820		
31	16 Stbd	12,360	6,730	-570	-16,940	-29,080	-32,160	-33,550	-33,920		
32	16 East	21,750	25,970	30,200	34,690	30,450	26,210	22,000	17,740		
33	16 West	21,920	26,150	30,400	34,660	30,380	26,120	21,890	17,640		
34	8 Stbd	6,500	3,540	-260	-8,880	-15,290	-16,900	-17,640	-17,820		
35	8 Keel	25,090	29,520	33,940	38,370	33,960	29,550	25,130	20,690		
36	8 Surge	30	460	920	960	720	520	320	0		



TABLE D.8 (Continued)

BAFCO No.	Load Cell	Load Condition, 240 Degree Lag (lb)						Still Water+Zero Stress	Zero	Unlock
		Percent Load			Lateral Offset	Still Water+Zero Stress	Zero			
		-30% ↑	-20% ↑	-10% ↑						
5	108 Stbd	-23,890	-23,270	-22,240	-20,890	-50	-60	-40		
6	108 Keel	22,240	16,210	10,260	4,250	4,250	-3,190	120		
7	98 Stbd	-32,370	-31,500	-30,150	-28,300	-0	-0	0		
8	98 East	11,370	7,290	3,200	-900	-890	-6,000	-20		
9	98 West	11,370	7,240	3,120	-970	-920	-6,090	-100		
10	92 Stbd	-15,390	-14,910	-14,290	-13,400	-0	-0	0		
11	92 Keel	5,230	1,140	2,550	-6,500	-6,540	-11,150	-150		
12	86 Stbd	-6,400	-6,250	-5,790	-5,240	-710	-690	-1,500		
13	86 Keel	-9,410	-10,500	-11,900	-13,010	-12,500	-14,340	-52,600		
14	80 Stbd	7,270	7,090	6,790	6,370	0	0	0		
15	80 Keel	-21,760	-19,890	-18,120	-16,230	-16,130	-13,900	-130		
16	72 Stbd	24,370	23,740	22,720	21,350	-0	0	0		
17	72 Keel	-39,590	-33,440	-27,340	-21,160	-21,160	-13,550	-250		
18	64 Stbd	35,730	34,800	33,290	31,290	0	30	20		
19	64 East	-26,370	-21,690	-17,190	-12,690	-12,650	-7,040	90		
20	64 West	-26,150	-21,690	-17,190	-12,640	-12,740	-7,120	120		
21	56 Stbd	38,070	37,070	35,470	33,300	-0	-0	0		
22	56 East	-28,150	-23,370	-18,530	-13,770	-13,770	-7,790	180		
23	56 West	-28,150	-23,400	-18,610	-13,860	-13,820	-7,890	-150		
24	48 Stbd	31,110	30,290	28,970	27,210	-0	0	0		
25	48 Keel	-47,740	-39,890	-32,040	-24,200	-24,190	-1,440	90		
26	40 Stbd	16,270	15,840	15,140	14,220	-0	0	0		
27	40 Keel	-34,380	-30,230	-26,130	-21,990	-21,990	-16,830	40		
28	24 Stbd	-23,260	-22,980	-22,060	-20,790	80	140	-670		
29	24 East	-7,450	-3,290	-160	3,000	220	4,020	17,160		
30	24 West	1,450	-250	-3,120	-6,000	-9,010	-12,810	-21,280		
31	16 Stbd	-33,590	-32,720	-3,130	-29,400	0	0	0		
32	16 East	13,500	9,280	5,070	850	830	-4,450	90		
33	16 West	13,400	9,130	4,900	630	640	-4,590	-140		
34	8 Stbd	-17,650	-17,180	-16,440	-15,430	0	0	0		
35	8 Keel	16,270	11,850	7,440	3,000	2,980	-2,520	220		
36	8 Surge	-210	-470	-680	-850	-820	-990	-2,670		

TABLE D.9 - ASEM STATIC TEST 1--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)									
		Unlock	Zero	Zero Stress	Still Water	Percent Load			+40% †		
						+10% †	+20% †	+30% †			
1	108 Stbd	-.038	-.020	.038	.043	.028	.043	.040	.052		
2	108 Keel	-.003	-.003	-.003	-.003	0	0	0	0		
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527		
4	98 East	.320	.145	.136	.230	.153	.083	.014	-.055		
5	98 West	.077	-.049	-.053	.019	-.041	-.099	-.156	-.214		
6	92 Stbd	-.053	-.035	-.003	0	-.009	0	0	.009		
7	92 Keel	.067	-.026	-.028	0	-.026	-.045	-.064	-.084		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.006	-.006	-.006		
10	80 Stbd	-.049	-.037	-.012	-.005	-.017	-.010	-.014	-.009		
11	80 Keel	.250	.189	.191	.148	.181	.214	.248	.281		
12	72 Stbd	-.065	-.059	-.016	-.005	-.018	-.015	-.023	-.022		
13	72 Keel	3.394	3.345	3.350	3.277	3.334	3.392	3.451	3.510		
14	64 Stbd	-.036	-.025	-.006	0	-.008	-.005	-.014	-.015		
15	64 East	-.121	-.161	-.157	-.276	-.183	-.088	.016	.138		
16	64 West	-.010	-.048	-.042	-.143	-.065	.013	.092	.172		
17	56 Stbd	-.494	-.510	-.496	-.525	-.511	-.476	-.447	-.408		
18	56 East	-.424	-.456	-.443	-.502	-.464	-.406	-.342	-.275		
19	56 West	-.185	-.224	-.218	-.329	-.241	-.154	-.067	.019		
20	48 Stbd	-.075	-.065	-.052	-.039	-.054	-.056	-.068	-.074		
21	48 Keel	-.039	-.086	-.079	-.180	-.098	-.020	.055	.133		
22	40 Stbd	.541	.541	.559	.556	.547	.547	.539	.537		
23	40 Keel	.018	-.029	-.025	-.110	-.042	.023	.089	.156		
24	16 Stbd	-.006	-.004	-.003	-.004	0	0	0	.009		
25	16 East	-.004	-.053	-.033	-.030	-.030	-.041	-.052	-.062		
26	16 West	.090	-.018	.005	.101	.020	-.020	-.071	-.126		
27	8 Stbd	.271	.269	.288	.291	.288	.287	.285	.285		
28	8 Keel	-1.285	-1.306	-1.290	-1.327	-1.307	-1.268	-1.232	-1.188		
29	No name	.193	.138	.168	.243	.182	.137	.090	.044		

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		Percent Load									
		+50%†	+60%†	+70%†	+80%†	+70%†	+60%†	+50%†	+40%†		
1	108 Stbd	.050	.058	.057	.058	.058	.061	.056	.058		
2	108 Keel	0	0	0	-.003	0	0	0	-.003		
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527		
4	98 East	-.127	-.195	-.264	-.329	-.270	-.207	-.143	-.076		
5	98 West	-.274	-.332	-.391	-.449	-.392	-.334	-.277	-.219		
6	92 Stbd	.008	.015	.015	.018	.016	.018	.013	.014		
7	92 Keel	-.105	-.125	-.145	-.164	-.144	-.124	-.104	-.084		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.014	-.010	-.013	-.014	-.013	-.010	-.011	-.008		
11	80 Keel	.315	.348	.381	.416	.385	.352	.321	.287		
12	72 Stbd	-.031	-.033	-.044	-.051	-.046	-.038	-.035	-.027		
13	72 Keel	3.568	3.626	3.683	3.742	3.688	3.633	3.577	3.520		
14	64 Stbd	-.026	-.029	-.041	-.049	-.043	-.032	-.028	-.017		
15	64 East	.246	.358	.470	.581	.487	.382	.276	.171		
16	64 West	.251	.386	.411	.497	.418	.341	.263	.185		
17	56 Stbd	-.388	-.349	-.328	-.297	-.327	-.345	-.382	-.403		
18	56 East	-.223	-.155	-.099	-.031	-.092	-.145	-.211	-.262		
19	56 West	.107	.194	.281	.370	.288	.204	.120	.034		
20	48 Stbd	-.089	-.098	-.116	-.129	-.121	-.107	-.097	-.082		
21	48 Keel	.211	.290	.368	.446	.375	.301	.226	.150		
22	40 Stbd	.528	.524	.514	.508	.513	.521	.522	.529		
23	40 Keel	.225	.291	.360	.428	.368	.306	.243	.176		
24	16 Stbd	.012	.019	.021	.026	.023	.020	.013	.010		
25	16 East	-.072	-.084	-.093	-.105	-.084	-.066	-.050	-.037		
26	16 West	-.180	-.229	-.268	-.307	-.274	-.234	-.188	-.137		
27	8 Stbd	.282	.284	.281	.281	.281	.282	.282	.284		
28	8 Keel	-1.164	-1.121	-1.096	-1.060	-1.094	-1.117	-1.159	-1.183		
29	No name	0	-.047	-.093	-.141	-.089	-.038	.008	.055		

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		+30%+	+20%+	+10%+	Percent Load Still Water	-10%+	-20%+	-30%+	-40%+
1	108 Stbd	.048	.050	.034	.047	.033	.029	.032	.012
2	108 Keel	-.003	-.003	-.003	-.003	0	0	0	0
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527
4	98 East	-.007	.061	.135	.223	.318	.394	.471	.560
5	98 West	-.161	-.102	-.044	.016	.076	.135	.194	.263
6	92 Stbd	.005	.007	-.004	-.003	-.007	-.011	-.008	-.025
7	92 Keel	-.064	-.045	-.026	-.006	.011	.030	.049	.073
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.012	-.007	-.015	-.004	-.011	-.010	-.005	-.016
11	80 Keel	.254	.218	.184	.147	.112	.078	.041	.007
12	72 Stbd	-.027	-.020	-.024	-.009	-.012	-.008	0	-.006
13	72 Keel	3.461	3.401	3.342	3.279	3.219	3.160	3.098	3.039
14	64 Stbd	-.061	-.005	-.007	.006	.006	.010	.019	.013
15	64 East	.050	-.056	-.157	-.266	-.369	-.461	-.561	-.657
16	64 West	.107	.025	-.054	-.140	-.220	-.297	-.377	-.458
17	56 Stbd	-.442	-.472	-.509	-.525	-.552	-.567	-.576	-.593
18	56 East	-.327	-.393	-.455	-.499	-.544	-.571	-.588	-.607
19	56 West	-.051	-.140	-.229	-.326	-.417	-.503	-.597	-.691
20	48 Stbd	-.076	-.063	-.059	-.043	-.040	-.033	-.022	-.025
21	48 Keel	.071	-.007	-.087	-.176	-.259	-.336	-.419	-.507
22	40 Stbd	.530	.537	.537	.547	.547	.548	.554	.547
23	40 Keel	.107	.035	-.029	-.110	-.185	-.257	-.326	-.407
24	16 Stbd	-.003	-.002	-.003	-.004	-.008	-.012	-.016	-.025
25	16 East	-.027	-.021	-.016	-.025	-.025	-.018	-.013	-.022
26	16 West	-.084	-.033	.006	.091	.134	.176	.219	.240
27	8 Stbd	.284	.286	.289	.292	.295	.296	.298	.296
28	8 Keel	-1.226	-1.262	-1.305	-1.327	-1.365	-1.392	-1.412	-1.450
29	No name	.100	.143	.185	.242	.283	.327	.372	.398

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		Percent Load									
		-50% ↓	-60% ↓	-70% ↓	-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑		
1	108 Stbd	.011	0	0	0	0	0	.011	.013		
2	108 Keel	0	0	0	0	0	0	0	0		
3	98 Stbd	.527	.527	.527	.527	.527	.527	.527	.527		
4	98 East	.644	.722	.797	.870	.801	.728	.651	.574		
5	98 West	.326	.385	.441	.498	.440	.381	.321	.261		
6	92 Stbd	-.027	-.033	-.036	-.042	-.038	-.036	-.029	-.028		
7	92 Keel	.093	.111	.126	.142	.122	.103	.083	.063		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.013	-.015	-.013	-.014	-.013	-.015	-.012	-.014		
11	80 Keel	-.028	-.064	-.103	-.140	-.109	-.077	-.044	-.010		
12	72 Stbd	±.003	0	0	0	0	0	0	0		
13	72 Keel	2.977	2.917	2.852	2.792	2.845	2.901	2.958	3.015		
14	64 Stbd	.020	.020	.026	.027	.027	.022	.022	.017		
15	64 East	-.759	-.854	-.952	-1.042	-.964	-.880	-.793	-.704		
16	64 West	-.542	-.621	-.705	-.787	-.713	-.638	-.563	-.486		
17	56 Stbd	-.602	-.612	-.619	-.628	-.620	-.614	-.604	-.597		
18	56 East	-.618	-.629	-.637	-.646	-.638	-.631	-.621	-.612		
19	56 West	-.786	-.877	-.973	-1.064	-.982	-.897	-.811	-.723		
20	48 Stbd	-.018	-.017	-.009	-.007	-.009	-.016	-.017	-.025		
21	48 Keel	-.593	-.675	-.760	-.838	-.768	-.692	-.616	-.538		
22	40 Stbd	.550	.548	.552	.550	.550	.547	.548	.544		
23	40 Keel	-.485	-.556	-.632	-.704	-.642	-.574	-.505	-.434		
24	16 Stbd	-.026	-.031	-.030	-.035	-.031	-.031	-.028	-.027		
25	16 East	-.025	-.021	-.018	-.010	-.023	-.033	-.041	-.047		
26	16 West	.269	.298	.327	.359	.330	.301	.271	.239		
27	8 Stbd	.299	.298	.302	.300	.301	.298	.299	.296		
28	8 Keel	-1.473	-1.505	-1.526	-1.558	-1.530	-1.511	-1.481	-1.461		
29	No name	.434	.474	.516	.560	.518	.475	.433	.392		

TABLE D.9 (Continued)

Pos. No.	Load Cell	Load Condition (in)						Still Water	Zero	Unlock
		Percent Load			-10%†	Zero	Unlock			
		-30%†	-70%†	-10%†						
1	108 Stbd	.036	.031	.035	.049	.046	.006			
2	108 Keel	0	0	-.003	0	0	0			
3	98 Stbd	.527	.527	.527	.527	.527	.527			
4	98 East	.491	.414	.335	.235	.134	.329			
5	98 West	.198	.137	.077	.018	-.056	.087			
6	92 Stbd	-.009	-.013	-.009	0	0	-.033			
7	92 Keel	.043	.023	0	-.014	-.040	.071			
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009			
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006			
10	80 Stbd	0	-.008	-.009	-.003	-.009	-.037			
11	80 Keel	.022	.056	.090	.124	.168	.249			
12	72 Stbd	0	0	-.006	-.005	-.015	-.039			
13	72 Keel	3.074	3.133	3.192	3.250	3.325	3.396			
14	64 Stbd	.024	.015	.010	.011	0	-.029			
15	64 East	-.613	-.520	-.425	-.330	-.200	-.143			
16	64 West	-.406	-.328	-.248	-.170	-.068	-.013			
17	56 Stbd	-.581	-.572	-.558	-.534	-.508	-.496			
18	56 East	-.595	-.580	-.558	-.521	-.464	-.431			
19	56 West	-.631	-.543	-.454	-.365	-.251	-.196			
20	48 Stbd	-.021	-.031	-.038	-.041	-.054	-.076			
21	48 Keel	-.454	-.374	-.293	-.213	-.108	-.044			
22	40 Stbd	.551	.545	.542	.542	.536	.526			
23	40 Keel	-.357	-.285	-.215	-.144	-.054	.008			
24	16 Stbd	-.020	-.018	-.014	-.009	-.004	-.014			
25	16 East	-.042	-.045	-.048	-.052	-.048	.013			
26	16 West	.220	.185	.144	.101	0	.117			
27	8 Stbd	.299	.296	.294	.292	.288	.286			
28	8 Keel	-1.423	-1.404	-1.378	-1.341	-1.306	-1.290			
29	No name	.365	.325	.284	.242	.173	.255			

TABLE D.10 - ASEM STATIC TEST 2--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)									
		Unlock	Zero	Zero Stress	Still Water	Percent Load					
						+10%↑	+20%↑	+30%↑	+40%↑		
1	108 Stbd	2.840	2.858	2.867	2.869	2.910	2.923	2.960	2.999		
2	108 Keel	-.231	-.448	-.449	-.271	-.271	-.273	-.274	-.276		
3	98 Stbd	.270	.251	.254	.247	.251	.262	.250	.253		
4	98 East	.326	.168	.162	.258	.257	.255	.252	.248		
5	98 West	.119	-.017	-.023	.047	.047	.045	.044	.042		
6	92 Stbd	-.045	-.030	-.026	-.025	±.003	±.003	.016	.036		
7	92 Keel	.084	-.022	-.028	-.006	-.006	-.008	-.009	-.010		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.009	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.026	-.013	-.014	-.011	-.039	-.071	-.089	-.106		
11	80 Keel	.259	.171	.172	.126	.126	.126	.126	.127		
12	72 Stbd	-.020	-.012	-.016	-.010	.074	-.129	-.175	-.222		
13	72 Keel	3.335	3.254	3.255	3.179	3.178	3.178	3.178	3.178		
14	64 Stbd	-.010	.003	-.004	±.003	-.060	-.126	-.184	-.242		
15	64 East	-.147	-.224	-.223	-.346	-.350	-.350	-.351	-.352		
16	64 West	-.058	-.128	-.128	-.227	-.227	-.228	-.228	-.228		
17	56 Stbd	-.445	-.477	-.484	-.514	-.559	-.592	-.613	-.629		
18	56 East	-.393	-.445	-.450	-.508	-.546	-.576	-.596	-.614		
19	56 West	-.448	-.518	-.519	-.630	-.633	-.634	-.634	-.634		
20	48 Stbd	-.038	-.027	-.039	-.032	-.098	-.167	-.233	-.300		
21	48 Keel	-.467	-.542	-.542	-.642	-.644	-.644	-.644	-.644		
22	40 Stbd	.575	.578	.562	.563	.494	.438	.385	.329		
23	40 Keel	.008	-.057	-.054	-.147	-.147	-.144	-.141	-.141		
24	16 Stbd	.055	.066	.026	.016	.055	.088	.116	.141		
25	16 East	.047	.004	-.004	±.002	-.006	-.007	-.008	-.009		
26	16 West	.122	.046	.046	.140	.135	.134	.136	.139		
27	8 Stbd	.349	.353	.326	.323	.327	.326	.318	.307		
28	8 Keel	-1.238	-1.273	-1.282	-1.321	-1.382	-1.445	-1.502	-1.562		
29	No name	.302	.237	.235	.309	.304	.303	.303	.302		

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		+50%↑	+60%↑	+70%↑	+80%↑	Percent Load	+70%↑	+60%↑	+50%↑	+40%↑	
1	108 Stbd	3.038	3.077	3.118	3.155	3.126	3.092	3.056	3.019		
2	108 Keel	-.277	-.279	-.279	-.281	-.279	-.280	-.280	-.280		
3	98 Stbd	.253	.250	.250	.252	.255	.253	.251	.254		
4	98 East	.245	.241	.237	.234	.233	.234	.235	.236		
5	98 West	.040	.039	.037	.036	.036	.036	.036	.037		
6	92 Stbd	.057	.079	.101	.122	.110	.096	.075	.056		
7	92 Keel	-.011	-.011	-.012	-.013	-.013	-.013	-.013	-.013		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.123	-.140	-.157	-.175	-.167	-.152	-.137	-.123		
11	80 Keel	.127	.128	.128	.128	.128	.128	.129	.129		
12	72 Stbd	-.268	-.315	-.360	-.405	-.378	-.347	-.312	-.273		
13	72 Keel	3.178	3.178	3.178	3.178	3.178	3.178	3.179	3.181		
14	64 Stbd	-.300	-.359	-.417	-.474	-.438	-.398	-.354	-.307		
15	64 East	-.352	-.353	-.354	-.356	-.357	-.357	-.357	-.357		
16	64 West	-.228	-.228	-.228	-.228	-.228	-.227	-.225	-.224		
17	56 Stbd	-.644	-.657	-.669	-.681	-.675	-.667	-.657	-.646		
18	56 East	-.628	-.642	-.654	-.666	-.659	-.651	-.642	-.631		
19	56 West	-.634	-.634	-.634	-.634	-.631	-.626	-.620	-.615		
20	48 Stbd	-.367	-.437	-.505	-.574	-.535	-.489	-.436	-.381		
21	48 Keel	-.644	-.644	-.644	-.644	-.642	-.640	-.635	-.631		
22	40 Stbd	.274	.215	.158	.100	.133	.172	.216	.262		
23	40 Keel	-.139	-.138	-.138	-.138	-.142	-.142	-.141	-.142		
24	16 Stbd	.166	.187	.206	.222	.208	.190	.170	.146		
25	16 East	-.011	-.014	-.018	-.024	-.021	-.017	-.012	-.009		
26	16 West	.141	.142	.142	.140	.144	.148	.151	.152		
27	8 Stbd	.295	.281	.268	.253	.249	.248	.251	.255		
28	8 Keel	-1.622	-1.688	-1.755	-1.826	-1.784	-1.738	-1.687	-1.632		
29	No name	.301	.299	.295	.290	.292	.294	.297	.299		



TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		Percent Load									
		+30%↓	+20%↓	+10%↓	Still	Water	-10%↓	-20%↓	-30%↓	-40%↓	
1	108 Stbd	2.982	2.944	2.905	2.872	2.821	2.785	2.750	2.714		
2	108 Keel	-.279	-.278	-.277	-.277	-.275	-.274	-.273	-.273		
3	98 Stbd	.250	.256	.256	.256	.253	.244	.250	.254		
4	98 East	.239	.241	.245	.246	.248	.251	.253	.257		
5	98 West	.038	.039	.040	.041	.041	.042	.043	.043		
6	92 Stbd	.037	.016	±.003	-.025	-.041	-.059	-.071	-.095		
7	92 Keel	-.012	-.012	-.011	-.011	-.011	-.010	-.010	-.008		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.108	-.092	-.073	-.040	±.002	.018	.037	.054		
11	80 Keel	.128	.128	.127	.126	.125	.124	.123	.123		
12	72 Stbd	-.232	-.189	-.143	-.070	±.002	.046	.095	.143		
13	72 Keel	3.183	3.183	3.181	3.180	3.178	3.176	3.175	3.175		
14	64 Stbd	-.255	-.201	-.142	-.061	.031	.092	.155	.217		
15	64 East	-.356	-.356	-.356	-.357	-.357	-.357	-.356	-.354		
16	64 West	-.226	-.228	-.230	-.233	-.237	-.240	-.242	-.243		
17	56 Stbd	-.634	-.619	-.599	-.567	-.496	-.440	-.381	-.325		
18	56 East	-.618	-.603	-.584	-.554	-.495	-.450	-.402	-.355		
19	56 West	-.619	-.623	-.619	-.626	-.619	-.633	-.633	-.634		
20	48 Stbd	-.322	-.263	-.194	-.119	-.007	.062	.134	.205		
21	48 Keel	-.629	-.627	-.625	-.624	-.574	-.646	-.643	-.639		
22	40 Stbd	.309	.357	.411	.484	.574	.630	.684	.738		
23	40 Keel	-.142	-.144	-.147	-.150	-.153	-.156	-.156	-.159		
24	16 Stbd	.118	.086	.053	±.003	-.011	-.042	-.071	-.099		
25	16 East	.007	-.005	-.005	-.005	-.006	-.007	-.006	±.003		
26	16 West	.152	.150	.147	.145	.146	.148	.153	.160		
27	8 Stbd	.259	.264	.272	.267	.287	.294	.301	.307		
28	8 Keel	-1.577	-1.520	-1.463	-1.394	-1.300	-1.241	-1.182	-1.127		
29	No name	.301	.302	.302	.301	.300	.299	.299	.302		

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		-50%↓	-60%↓	-70%↓	-80%↓	-70%↑	-60%↑	-50%↑	-40%↑		
1	108 Stbd	2.678	2.641	2.605	2.568	2.598	2.632	2.666	2.701		
2	108 Keel	-.272	-.270	-.267	-.264	-.264	-.267	-.270	-.272		
3	98 Stbd	.252	.255	.261	.252	.255	.249	.252	.250		
4	98 East	.260	.262	.265	.268	.268	.267	.264	.262		
5	98 West	.044	.046	.047	.048	.049	.049	.048	.045		
6	92 Stbd	-.114	-.133	-.151	-.168	-.157	-.142	-.126	-.109		
7	92 Keel	-.008	-.007	-.006	-.005	-.005	-.006	-.006	-.007		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	.072	.090	.108	.126	.116	.103	.088	.073		
11	80 Keel	.122	.121	.119	.118	.119	.119	.119	.119		
12	72 Stbd	.192	.242	.291	.342	.315	.278	.236	.193		
13	72 Keel	3.173	3.170	3.168	3.166	3.166	3.165	3.165	3.165		
14	64 Stbd	.282	.349	.413	.478	.443	.396	.343	.286		
15	64 East	-.355	-.356	-.358	-.360	-.358	-.355	-.353	-.352		
16	64 West	-.247	-.250	-.255	-.259	-.259	-.257	-.257	-.257		
17	56 Stbd	-.269	-.215	-.163	-.113	-.143	-.181	-.223	-.268		
18	56 East	-.311	-.267	-.226	-.187	-.210	-.240	-.273	-.309		
19	56 West	-.645	-.640	-.654	-.656	-.661	-.660	-.660	-.660		
20	48 Stbd	.278	.354	.431	.507	.468	.417	.358	.296		
21	48 Keel	-.639	-.666	-.668	-.675	-.676	-.676	-.676	-.676		
22	40 Stbd	.793	.850	.909	.967	.936	.896	.851	.803		
23	40 Keel	-.162	-.168	-.174	-.180	-.171	-.168	-.165	-.160		
24	16 Stbd	-.124	-.146	-.166	-.183	-.169	-.153	-.135	-.113		
25	16 East	-.006	-.011	-.015	-.021	-.020	-.017	-.015	-.012		
26	16 West	.163	.165	.166	.167	.166	.163	.161	.159		
27	8 Stbd	.316	.327	.337	.349	.355	.355	.353	.349		
28	8 Keel	-1.072	-1.020	-.970	-.922	-.951	-.988	-1.030	-1.074		
29	No name	.298	.293	.287	.279	.280	.284	.287	.291		

TABLE D.10 (Continued)

Pos. No.	Load Cell	Load Condition (in)						Still Water	Zero	Unlock
		Percent Load			-10% †	Zero	Unlock			
		-30% †	-20% †	-10% †						
1	108 Stbd	2.736	2.772	2.807	2.868	2.876	2.853			
2	108 Keel	-.275	-.278	-.280	-.280	-.461	-.242			
3	98 Stbd	.242	.252	.250	.243	.243	.247			
4	98 East	.260	.257	.254	.251	.151	.344			
5	98 West	.043	.041	.039	.038	-.035	.106			
6	92 Stbd	-.091	-.073	-.055	-.027	-.022	-.038			
7	92 Keel	-.008	-.009	-.010	-.010	-.035	.076			
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009			
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006			
10	80 Stbd	.057	.040	.023	.001	-.003	-.016			
11	80 Keel	.120	.121	.122	.122	.165	.254			
12	72 Stbd	.150	.105	.060	.006	-.004	-.010			
13	72 Keel	3.165	3.165	3.165	3.165	3.234	3.316			
14	64 Stbd	.227	.168	.109	.035	.018	.003			
15	64 East	-.350	-.349	-.348	-.350	-.230	-.154			
16	64 West	-.257	-.256	-.256	-.256	-.162	-.091			
17	56 Stbd	-.317	-.368	-.424	-.505	-.483	-.445			
18	56 East	-.348	-.389	-.433	-.500	-.452	-.393			
19	56 West	-.660	-.660	-.660	-.660	-.560	-.486			
20	48 Stbd	.231	.165	.097	±.002	-.020	-.027			
21	48 Keel	-.676	-.676	-.676	-.676	-.608	-.532			
22	40 Stbd	.754	.704	.652	.577	.559	.566			
23	40 Keel	-.154	-.151	-.147	-.147	.058	.009			
24	16 Stbd	-.088	-.059	-.026	.007	.008	.019			
25	16 East	-.010	-.008	-.007	-.008	.015	.046			
26	16 West	.156	.153	.149	.143	.035	.148			
27	8 Stbd	.344	.338	.333	.330	.316	.331			
28	8 Keel	-1.121	-1.172	-1.226	-1.311	-1.282	-1.238			
29	No name	.295	.298	.300	.299	.222	.301			

TABLE D.11 - ASEM STATIC TEST 3--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)									
		Unlock	Zero Stress	Still Water	Lateral Offset	Percent Load					
						+10%↑	+20%↑	+30%↑	+40%↑		
1	108 Stbd	-.027	-.021	.017	.068	.243	.229	.201	.175		
2	108 Keel	±.031	±.028	±.028	±.026	±.027	±.028	±.028	±.028		
3	98 Stbd	.201	.204	.230	.231	.236	.233	.230	.235		
4	98 East	.324	.149	.231	.220	.140	.072	±.004	-.061		
5	98 West	.089	-.042	.022	.015	-.041	-.098	-.154	-.210		
6	92 Stbd	-.036	-.020	-.010	.106	.106	.100	.091	.079		
7	92 Keel	.065	-.034	-.017	-.021	-.041	-.059	-.076	-.093		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.005	-.005	-.005		
10	80 Stbd	-.034	-.020	-.007	-.143	-.139	-.132	-.120	-.110		
11	80 Keel	.248	.178	.129	.129	.164	.199	.235	.269		
12	72 Stbd	-.015	-.005	.012	-.307	-.303	-.288	-.266	-.245		
13	72 Keel	3.376	3.314	3.234	3.232	3.289	3.350	3.411	3.472		
14	64 Stbd	-.011	±.003	.021	-.368	-3.580	-.338	-.309	-.279		
15	64 East	-.145	-.192	-.320	-.324	-.231	-.129	-.020	.104		
16	64 West	-.033	-.081	-.186	-.175	-.096	-.013	.065	.143		
17	56 Stbd	-.474	-.500	-.523	-.669	-.662	-.652	-.636	-.617		
18	56 East	-.416	-.458	-.510	-.653	-.641	-.621	-.584	-.523		
19	56 West	-.218	-.266	-.382	-.382	-.294	-.202	-.110	-.023		
20	48 Stbd	-.065	-.054	-.037	-.466	-.457	-.435	-.405	-.377		
21	48 Keel	-.100	-.154	-.262	-.263	-.184	-.099	-.017	.059		
22	40 Stbd	.525	.530	.548	.182	.193	.216	-.248	.282		
23	40 Keel	.008	-.041	-.134	-.128	-.063	.006	.075	.143		
24	16 Stbd	-.043	-.038	-.012	.186	.189	.178	.156	.128		
25	16 East	.034	-.007	-.013	-.031	-.039	-.037	-.043	-.051		
26	16 West	.108	.039	.105	.102	.033	-.007	-.067	-.127		
27	8 Stbd	.272	.273	.288	.269	.270	.272	.276	.275		
28	8 Keel	-1.267	-1.296	-1.325	-1.720	-1.683	-1.630	-1.558	-1.488		
29	No name	.265	.217	.282	.270	.201	.171	.127	.080		

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)											
		+50%↑	+60%↑	+70%↑	+80%↑	+70%↓	+60%↓	+50%↓	+40%↓				
1	108 Stbd	.153	.091	.024	-.124	-.223	-.248	-.265	-.272				
2	108 Keel	±.028	±.029	±.028	±.027	±.027	±.028	±.027	±.027				
3	98 Stbd	.245	.237	.238	.243	.248	.244	.252	.245				
4	98 East	-.126	-.194	-.257	-.319	-.257	-.194	-.129	-.061				
5	98 West	-.266	-.324	-.381	-.436	-.378	-.322	-.264	-.205				
6	92 Stbd	.062	.051	.012	-.072	-.129	-.146	-.155	-.160				
7	92 Keel	-.112	-.133	-.152	-.171	-.152	-.133	-.133	-.092				
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009				
9	86 Port	-.005	-.005	-.005	-.005	-.005	-.005	-.005	-.005				
10	80 Stbd	-.095	-.065	-.016	.048	.098	.114	.123	.129				
11	80 Keel	.302	.333	.366	.395	.361	.327	.293	.260				
12	72 Stbd	-.213	-.155	-.055	.127	.277	.323	.351	.368				
13	72 Keel	3.531	3.586	3.642	3.693	3.635	3.576	3.518	3.460				
14	64 Stbd	-.237	-.168	-.048	.185	.375	.435	.472	.495				
15	64 East	.214	.326	.437	.541	.437	.332	.228	.123				
16	64 West	.217	.292	.366	.437	.352	.073	.194	.115				
17	56 Stbd	-.586	-.504	-.331	-.850	-.850	-.851	-.852	-.853				
18	56 East	-.423	-.295	-.116	-.830	-.833	-.836	-.839	-.842				
19	56 West	.056	.140	.223	.298	.208	.120	.034	-.052				
20	48 Stbd	-.328	-.251	-.147	.124	.340	.409	.452	.482				
21	48 Keel	.134	.209	.283	.354	.270	.193	.116	.039				
22	40 Stbd	.327	.386	.491	.711	.871	.922	.954	.975				
23	40 Keel	.206	.270	.333	.391	.322	.255	.190	.120				
24	16 Stbd	.104	.077	.019	-.021	-.075	-.095	-.111	-.129				
25	16 East	-.060	-.069	-.078	-.085	-.065	-.049	-.039	-.032				
26	16 West	-.180	-.226	-.266	-.298	-.254	-.211	-.165	-.110				
27	8 Stbd	.275	.273	.250	.265	.266	.274	.285	.299				
28	8 Keel	-1.399	-1.281	-1.099	-3.582	-3.583	-3.582	-3.582	-3.583				
29	No name	.031	-.016	-.067	-.116	-.066	-.019	.024	.065				

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		Percent Load					Percent Load				
		+30%+	+20%+	+10%+	Still Water	-10%+	-20%+	-30%+	-40%+		
1	108 Stbd	-.276	-.270	-.270	-.250	-.247	-.230	-.209	-.191		
2	108 Keel	+.027	+.028	+.027	+.027	+.027	+.027	.027	.027		
3	98 Stbd	.250	.245	.252	.257	.254	.264	.255	.265		
4	98 East	.006	.076	-.150	.240	.332	.412	.492	.571		
5	98 West	-.147	-.089	-.030	.027	.086	.148	.208	.268		
6	92 Stbd	-.162	-.162	-.159	-.155	-.148	-.141	-.132	-.120		
7	92 Keel	-.073	-.055	-.035	-.015	+.003	.022	.041	.060		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.005	-.005	-.005	-.004	-.005	-.005	-.004	-.004		
10	80 Stbd	.131	.132	.131	.129	.125	.119	.110	.098		
11	80 Keel	.225	.189	.156	.122	.086	.050	.014	-.019		
12	72 Stbd	.378	.383	.381	.376	.366	.349	.325	.294		
13	72 Keel	3.400	3.339	3.281	3.221	3.161	3.099	3.040	2.981		
14	64 Stbd	.508	.513	.510	.504	.490	.468	.437	.397		
15	64 East	.004	-.104	-.202	-.302	-.401	-.499	-.595	-.689		
16	64 West	.035	-.047	-.125	-.204	-.285	-.367	-.445	-.522		
17	56 Stbd	-.854	-.856	-.857	-.858	-.859	-.861	-.862	-.863		
18	56 East	-.844	-.848	-.850	-.852	-.854	-.856	-.858	-.860		
19	56 West	-.142	-.234	-.321	-.410	-.501	-.596	-.686	-.774		
20	48 Stbd	.502	.513	.514	.512	.501	.481	.451	.413		
21	48 Keel	-.039	-.121	-.199	-.280	-.364	-.452	-.534	-.609		
22	40 Stbd	.988	.994	.992	.987	.975	.956	.930	.897		
23	40 Keel	.050	-.020	-.089	-.157	-.230	-.312	-.384	-.456		
24	16 Stbd	-.152	-.158	-.159	-.157	-.150	-.141	-.130	-.115		
25	16 East	-.027	-.024	-.020	-.018	-.022	-.034	-.038	-.035		
26	16 West	-.045	-.003	.037	.111	.166	.185	.211	.241		
27	8 Stbd	.316	.334	.349	.368	.385	.400	.414	.427		
28	8 Keel	-3.583	-3.583	-3.583	-3.584	-3.584	-3.584	-3.583	-3.584		
29	No name	.105	.146	.189	.258	.296	.323	.359	.400		

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		-50%+	-60%+	-70%+	-80%+	-70%+	-60%+	-50%+	-40%+
1	108 Stbd	-.154	-.105	-.033	.110	.227	.256	.267	.282
2	108 Keel	.028	.028	.027	.027	.027	.027	.027	.027
3	98 Stbd	.271	.262	.265	.265	.265	.266	.268	.265
4	98 East	.649	.721	.792	.817	.741	.698	.625	.550
5	98 West	.324	.378	.431	.442	.381	.355	.299	.241
6	92 Stbd	-.106	-.087	-.046	.009	.077	.100	.113	.122
7	92 Keel	.076	.090	.105	.084	.063	.073	.056	.039
8	86 Stbd	-.009	-.009	-.009	-.008	-.009	-.009	-.009	-.009
9	86 Port	-.004	-.004	-.004	-.004	-.004	-.004	-.004	-.004
10	80 Stbd	.083	.062	.020	-.092	-.148	-.162	-.172	-.175
11	80 Keel	-.055	-.092	-.129	-.192	-.159	-.102	-.067	-.030
12	72 Stbd	.251	.193	.098	-.128	-.272	-.311	-.337	-.350
13	72 Keel	2.921	2.861	2.802	2.721	2.774	2.850	2.907	2.966
14	64 Stbd	.345	.274	.151	-.135	-.324	-.373	-.405	-.421
15	64 East	-.784	-.879	-.972	-1.086	-1.009	-.909	-.823	-.734
16	64 West	-.600	-.678	-.755	-.846	-.767	-.675	-.597	-.517
17	56 Stbd	-.864	-.866	-.868	-.871	-.871	-.870	-.870	-.869
18	56 East	-.862	-.863	-.865	-.868	-.867	-.866	-.865	-.863
19	56 West	-.862	-.950	-1.036	-1.134	-1.046	-.947	-.861	-.772
20	48 Stbd	.359	.283	.153	-.166	-.377	-.432	-.475	-.498
21	48 Keel	-.688	-.769	-.848	-.930	-.848	-.765	-.690	-.611
22	40 Stbd	.853	.793	.674	.377	.207	.163	.134	.120
23	40 Keel	-.525	-.595	-.661	-.734	-.665	-.590	-.520	-.449
24	16 Stbd	-.097	-.073	-.018	.077	.146	.165	.175	.181
25	16 East	-.033	.030	-.026	-.015	-.031	-.046	-.055	-.061
26	16 West	.270	.300	.329	.366	.338	.307	.279	.252
27	8 Stbd	.433	.432	.439	.286	.230	.218	.208	.203
28	8 Keel	-3.584	-3.584	-3.584	-3.584	-3.572	-3.573	-3.566	-3.572
29	No name	.447	.483	.527	.580	.535	.485	.440	.399

TABLE D.11 (Continued)

Pos. No.	Load Cell	Load Condition (in)						Still Water	Zero	Unlock
		Percent Load			Lateral Offset	Still Water	Zero			
		-30%↑	-20%↑	-10%↑						
1	108 Stbd	.299	.288	.281	.267	.040	.029	-.018		
2	108 Keel	.027	.028	.027	-.027	.027	.027	.027		
3	98 Stbd	.269	.268	.268	.261	.272	.265	.266		
4	98 East	.471	.394	.317	.221	.226	.129	.331		
5	98 West	.181	.123	.066	.007	.010	-.060	.087		
6	92 Stbd	.128	.132	.132	.131	-.004	-.003	-.033		
7	92 Keel	.021	-.003	-.013	-.032	-.030	-.053	.064		
8	86 Stbd	-.008	-.009	-.008	-.009	-.008	-.009	-.009		
9	86 Port	-.004	-.004	-.004	-.004	-.004	-.004	-.004		
10	80 Stbd	-.174	-.172	-.167	-.161	-.025	-.023	-.046		
11	80 Keel	.005	.040	.077	.112	.113	-.156	.249		
12	72 Stbd	-.355	-.355	-.349	-.339	-.014	-.011	-.029		
13	72 Keel	3.025	3.084	3.143	3.203	3.209	3.284	3.371		
14	64 Stbd	-.426	-.426	-.418	-.404	-.007	-.005	-.027		
15	64 East	-.643	-.552	-.457	-.362	-.354	-.226	-.146		
16	64 West	-.435	-.356	-.276	-.196	-.200	-.100	-.027		
17	56 Stbd	-.869	-.869	-.868	-.866	-.862	-.860	-.858		
18	56 East	-.862	-.861	-.859	-.857	-.854	-.851	-.848		
19	56 West	-.681	-.592	-.502	-.412	-.408	-.295	-.219		
20	48 Stbd	-.511	-.518	-.514	-.503	-.060	-.068	-.081		
21	48 Keel	-.527	-.446	-.365	.281	-.277	-.177	-.094		
22	40 Stbd	.116	.119	.129	.148	.518	.523	.528		
23	40 Keel	-.372	-.302	-.227	-.155	-.155	-.065	.011		
24	16 Stbd	.185	.188	.190	.194	-.015	-.018	-.017		
25	16 East	-.056	-.060	-.062	-.061	-.032	-.029	.034		
26	16 West	.237	.207	.174	.118	.118	.029	.116		
27	8 Stbd	.202	.202	.207	.216	.258	.261	.271		
28	8 Keel	-3.576	-3.579	-3.579	-3.579	-3.567	-3.566	-3.554		
29	No name	.369	.322	.289	.251	.277	.204	.279		



TABLE D.12 - ASEM STATIC TEST 4--MEASURED DEFLECTIONS

Pos. No.	Load Cell	Load Condition (in)									
		Unlock	Zero Stress	Still Water	Lateral Offset	Percent Load			+40%†		
						+10%†	+20%†	+30%†			
1	108 Stbd	-.106	-.015	-.006	-.273	-.256	-.232	-.203	-.171		
2	108 Keel	.027	±.027	±027	±.027	±.027	±.027	±.027	±.028		
3	98 Stbd	.265	.257	.245	.253	.251	.253	.257	.262		
4	98 East	.319	.159	.247	.269	.196	.125	.053	-.016		
5	98 West	.121	-.017	.053	.065	.007	-.051	-.111	-.170		
6	92 Stbd	-.085	-.034	-.027	-.152	-.149	-.140	-.128	-.113		
7	92 Keel	.080	-.028	-.005	±.003	-.020	-.041	-.062	-.081		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.093	-.030	-.021	.110	.100	.089	.075	.059		
11	80 Keel	.256	.166	.122	.115	.148	.181	.215	.250		
12	72 Stbd	-.058	-.023	-.011	.309	.288	.260	.222	.179		
13	72 Keel	3.356	3.274	3.199	3.185	3.241	3.298	3.358	3.417		
14	64 Stbd	-.045	-.011	±.003	.430	.402	.364	.316	.258		
15	64 East	-.154	-.227	-.350	-.362	-.267	-.171	-.060	.059		
16	64 West	-.037	-.107	-.207	-.232	-.156	-.077	.005	.087		
17	56 Stbd	-.478	-.501	-.529	-.152	-.144	-.140	-.131	-.142		
18	56 Fast	-.416	-.466	-.521	-.219	-.188	-.156	-.110	-.086		
19	56 West	-.312	-.384	-.497	-.528	-.445	-.359	-.273	-.191		
20	48 Stbd	-.064	-.045	-.031	.486	.435	.391	.336	.272		
21	48 Keel	-.255	-.328	-.431	-.463	-.387	-.309	-.230	-.152		
22	40 Stbd	.540	.546	.552	.943	.912	.878	.836	.787		
23	40 Keel	.010	-.060	-.151	-.188	-.113	-.043	.028	.097		
24	16 Stbd	-.013	-.012	-.014	-.140	-.140	-.124	-.102	-.071		
25	16 East	.058	.009	.006	-.017	-.023	-.030	-.036	-.042		
26	16 West	.126	.052	.122	.134	.065	.023	-.022	-.083		
27	8 Stbd	.320	.304	.308	.373	.361	.353	.345	.340		
28	8 Keel	-1.270	-1.297	-1.335	-.959	-.947	-.937	-.921	-.926		
29	No name		.255	.321	.291	.224	.185	.144	.101		

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)											
		+50%†	+60%†	+70%†	+80%†	+70%†	+60%†	+50%†	+40%†				
1	108 Stbd	-.132	-.082	±.001	.130	.233	.267	.276	.281				
2	108 Keel	±.027	±.027	±.027	±.027	±.028	±.028	±.027	-.029				
3	98 Stbd	.262	.247	.250	.252	.250	.248	.245	.248				
4	98 East	-.089	-.161	-.231	-.307	-.254	-.196	-.136	-.073				
5	98 West	-.232	-.292	-.351	-.413	-.360	-.305	-.250	-.193				
6	92 Stbd	-.093	-.069	-.023	.048	.109	.128	.135	.138				
7	92 Keel	-.103	-.123	-.143	-.164	-.145	-.127	-.108	-.089				
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009				
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006				
10	80 Stbd	.041	+.018	-.020	-.173	-.156	-.168	-.174	-.176				
11	80 Keel	.285	.320	.357	.396	.369	.337	.304	.271				
12	72 Stbd	.129	.067	-.030	-.247	-.370	-.404	-.418	-.424				
13	72 Keel	3.475	3.533	3.589	3.638	3.601	3.549	3.492	3.435				
14	64 Stbd	.193	.111	-.018	-.281	-.429	-.470	-.490	-.500				
15	64 East	.173	.289	.410	.541	.449	.342	.232	.120				
16	64 West	.169	.252	.337	.422	.358	.285	.210	.132				
17	56 Stbd	-.162	-.202	-.304	-.550	-.633	-.650	-.660	-.666				
18	56 East	-.068	-.063	-.105	-.264	-.475	-.562	-.601	-.623				
19	56 West	-.111	-.032	.042	.100	.048	-.031	-.115	-.201				
20	48 Stbd	.194	.090	-.067	-.362	-.530	-.574	-.595	-.604				
21	48 Keel	-.077	-.026	.015	.019	-.030	-.101	-.175	-.251				
22	40 Stbd	.728	.657	.539	.304	.157	.117	.097	.087				
23	40 Keel	.165	.243	.314	.397	.342	.281	.220	.154				
24	16 Stbd	-.038	-.004	.061	.116	.168	.183	.195	.206				
25	16 East	-.048	-.056	-.067	-.080	-.064	-.048	-.034	-.021				
26	16 West	-.142	-.196	-.248	-.300	-.268	-.228	-.180	-.125				
27	8 Stbd	.335	.332	.353	.331	.329	.322	.313	.303				
28	8 Keel	-.942	-.977	-1.075	-1.334	-1.560	-1.643	-1.695	-1.731				
29	No name	.058	.012	-.035	-.080	-.028	.019	.067	.113				

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)									
		+30% ↓	+20% ↓	+10% ↓	Still	Water	-10% ↓	-20% ↓	-30% ↓	-40% ↓	
1	108 Stbd	.280	.278	.266	.252	.233	.210	.181	.146		
2	108 Keel	±.028	±.027	-.027	±.027	±.027	±.027	±.027	±.027	±.027	
3	98 Stbd	.251	.253	.249	.249	.248	.248	.260	.249		
4	98 East	-.009	.057	.125	.205	.307	.387	.466	.549		
5	98 West	-.137	-.080	-.022	.036	.094	.155	.214	.276		
6	92 Stbd	.136	.132	.126	.116	.103	.088	.072	.052		
7	92 Keel	-.071	-.052	-.034	-.014	±.003	.023	.041	.060		
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009		
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006		
10	80 Stbd	-.176	-.174	-.170	-.165	-.160	-.152	-.142	-1.300		
11	80 Keel	.236	.201	.164	.130	.094	.059	.022	-.012		
12	72 Stbd	-.423	-.417	-.407	-.394	-.377	-.355	-.327	-.291		
13	72 Keel	3.376	3.316	3.254	3.196	3.136	3.075	3.013	2.952		
14	64 Stbd	-.500	-.494	-.481	-.464	-.442	-.414	-.377	-.330		
15	64 East	.003	-.118	-.229	-.334	-.435	-.534	-.634	-.730		
16	64 West	.054	-.026	-.110	-.190	-.271	-.353	-.435	-.517		
17	56 Stbd	-.671	-.676	-.678	-.679	-.679	-.678	-.676	-.672		
18	56 East	-.637	-.650	-.658	-.663	-.667	-.669	-.670	-.670		
19	56 West	-.287	-.378	-.474	-.565	-.658	-.753	-.849	-.944		
20	48 Stbd	-.604	-.597	-.583	-.564	-.539	-.508	-.466	-.415		
21	48 Keel	-.328	-.408	-.493	-.574	-.657	-.741	-.826	-.912		
22	40 Stbd	.085	.088	.096	.107	.123	.144	.174	.212		
23	40 Keel	.086	.017	-.056	-.130	-.203	-.280	-.353	-.430		
24	16 Stbd	.215	.222	.217	.205	.189	.170	.149	.128		
25	16 East	-.010	±.003	±.003	±.003	.007	.008	.010	.012		
26	16 West	-.067	-.003	.045	.130	.190	.228	.264	.298		
27	8 Stbd	.292	.280	.268	.253	.238	.224	.214	.208		
28	8 Keel	-1.756	-1.779	-1.790	-1.793	-1.792	-1.784	-1.770	-1.747		
29	No name	.159	.203	.238	.309	.352	.392	.433	.472		

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)							
		Percent Load							
		-50% ↓	-60% ↓	-70% ↓	-80% ↓	-70% ↑	-60% ↑	-50% ↑	-40% ↑
1	108 Stbd	.104	.049	-.042	-.189	-.290	-.316	-.327	-.330
2	108 Keel	±.027	±.027	±.027	±.027	±.027	±.027	±.027	±.027
3	98 Stbd	.251	.250	.246	.260	.244	.253	.246	.250
4	98 East	.632	.723	.806	.897	.842	.774	.701	.624
5	98 West	.337	.403	.463	.529	.482	.428	.370	.311
6	92 Stbd	.030	±.002	-.049	-.109	-.155	-.167	-.174	-.177
7	92 Keel	.078	.101	.119	.140	.126	.109	.089	.070
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009	-.009
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006	-.006
10	80 Stbd	-.112	-.090	-.040	.068	.123	.136	.142	.143
11	80 Keel	-.050	-.088	-.127	-.166	-.135	-.103	-.071	-.038
12	72 Stbd	-.244	-.184	-.071	.160	.303	.341	.361	.370
13	72 Keel	2.889	2.825	2.761	2.695	2.743	2.799	2.854	2.910
14	64 Stbd	-.269	-.190	-.046	.250	.436	.482	.506	.515
15	64 East	-.828	-.924	-1.020	-1.118	-1.039	-.955	-.870	-.781
16	64 West	-.600	-.689	-.776	-.870	-.805	-.732	-.659	-.583
17	56 Stbd	-.666	-.657	-.636	-.551	-.399	-.335	-.286	-.245
18	56 East	-.667	-.663	-.651	-.617	-.562	-.510	-.454	-.401
19	56 West	-1.041	-1.146	-1.243	-1.351	-1.278	-1.197	-1.113	-1.028
20	48 Stbd	-.348	-.261	-.118	.223	.426	.478	.505	.518
21	48 Keel	-.999	-1.094	1.184	-1.281	-1.207	-1.132	-1.056	-.979
22	40 Stbd	.263	.331	.457	.754	.915	.956	.977	.987
23	40 Keel	-.504	-.588	-.670	-.757	-.707	-.644	-.580	-.515
24	16 Stbd	.105	.077	.011	-.094	-.148	-.160	-.165	-.166
25	16 East	.015	±.003	.002	-.006	-.028	-.041	-.053	-.062
26	16 West	.332	.345	.370	.395	.367	.336	.305	.275
27	8 Stbd	.208	.216	.225	.375	.417	.425	.428	.429
28	8 Keel	-1.715	-1.671	-1.583	-1.396	-1.240	-1.175	-1.123	-1.078
29	No name	.514	.536	.570	.596	.546	.496	.449	.405

TABLE D.12 (Continued)

Pos. No.	Load Cell	Load Condition (in)							Still Water	Zero	Unlock
		Percent Load			Lateral Offset	Still Water	Zero	Unlock			
		-30%↑	-20%↑	-10%↑							
1	108 Stbd	-.327	-.318	-.305	-.288	-.008	±.001	-.026			
2	108 Keel	±.027	±.026	±.027	±.027	±.027	±.027	±.027			
3	98 Stbd	.247	.257	.256	.248	.240	.244	.245			
4	98 East	.548	.465	.388	.282	.254	.159	.363			
5	98 West	.251	.186	.126	.062	.044	-.028	.123			
6	92 Stbd	-.177	-.175	-.171	-.166	-.034	-.028	-.044			
7	92 Keel	.051	.030	.010	-.009	-.015	-.040	.082			
8	86 Stbd	-.009	-.009	-.009	-.009	-.009	-.009	-.009			
9	86 Port	-.006	-.006	-.006	-.006	-.006	-.006	-.006			
10	80 Stbd	.141	.138	.130	.120	±.002	±.002	-.017			
11	80 Keel	-.004	.029	.064	.100	.109	.152	.256			
12	72 Stbd	.369	.363	.348	.328	.011	±.003	-.010			
13	72 Keel	2.969	3.027	3.086	3.148	3.150	3.219	3.317			
14	64 Stbd	.512	.504	.484	.458	.041	.021	.006			
15	64 East	-.689	-.594	-.498	-.395	-.372	-.250	-.150			
16	64 West	-.506	-.426	-.347	-.263	-.249	-.152	-.064			
17	56 Stbd	-.211	-.181	-.158	-.140	-.506	-.486	-.440			
18	56 East	-.351	-.303	-.260	-.218	-.508	-.459	-.389			
19	56 West	-.941	-.851	-.763	-.670	-.669	-.570	-.478			
20	48 Stbd	.519	.513	.496	.473	-.641	-.033	-.031			
21	48 Keel	-.900	-.815	-.734	-.647	.565	-.569	-.483			
22	40 Stbd	.988	.982	.966	.943	-.167	.547	.570			
23	40 Keel	-.446	-.368	-.291	-.211	.013	-.082	.003			
24	16 Stbd	-.165	-.162	-.159	-.155	-.023	.017	.032			
25	16 East	-.068	-.062	-.064	-.057	.133	-.025	.044			
26	16 West	.244	.227	.196	.150	.342	±.029	.130			
27	8 Stbd	.428	.425	.417	.404	.306	.326	.346			
28	8 Keel	-1.039	-1.004	-.976	-.952	-1.372	-1.285	-1.234			
29	No name	.362	.333	.295	.264	.256	.226	.312			

## APPENDIX E

### STRAIN GAGE SPECIFICATIONS AND LOCATION NOMENCLATURE

A brief summary of the specifications of the strain gages and the lead wires used to obtain the strain data follows. Almost all gages were either Micro-Measurements single arm gages or rosettes ( $0^{\circ}$ - $45^{\circ}$ - $90^{\circ}$ ) type CEA-13-250LW-120 or CEA-13-250UR-120, respectively. These are general purpose constantan strain gages with a fully encapsulated gird having exposed solder tabs. The manufacturer recommends that they be used on aluminum material in a temperature range of  $-100^{\circ}\text{F}$  to  $400^{\circ}\text{F}$  (test temperatures were well within this range). The active gage length for them is 0.25 in. with a gage resistance of 120 ohms. The nominal gage factor (G.F.) was 2 to 2.1%. The cement used for bonding them to the model was M-M Certified M-Bond 200 and waterproofing was also applied. At the completion of static and cyclic testing, the majority of the original gages were still functioning properly, approximately 5 years after they were installed.

The lead wires which ran from the strain gages on the model to completion panels below it were either Belden 8919, Style 1015 600V- $105^{\circ}\text{C}$  lead wire, or Military Specification type 7003 lead wire. Both are 10 strand AWG 20 gage wire with insulation thicknesses of  $3/32$  in. O.D. for Belden and  $2/32$  in. for type 7003. The lead wire length ranged from 50 to 150 ft, depending on where the gage was located on the model. Gages internal to the hull generally required longer lead wires than exterior gages.

An alphanumeric numbering system for the strain gages was developed to locate them on the ASEM and to facilitate data analysis. The following is an explanation of the strain gage location nomenclature used in the tables of analyzed static test data in Appendix B.

#### First Character

B8COMP

Gage is on a bulkhead

#### Generalized ship section where gage is located

"B" - Bulkhead

"H" - Hull

"F" - Platform Deck

"M" - Main Deck

"T" - 02 Deck

First character

Generalized ship section where gage is located

"ϕ" or "Z" - 01 Deck

"W" - Deckhouse Wall

"A" - Access Hole (Gage nomenclature different, see additional example for explanation)

Second Character

Specific frame or bulkhead location (may be 3 digit character)

B8COMMP

Gage is on Bulkhead 8

Third Character

Indicates gage location relative to port or starboard side of ship:

B8COMMP

On Bulkhead 8

At Centerline

"S" - Starboard

"P" - Port

"C" - Centerline plane of ship

Fourth Character

Specific location of gage relative to Centerline of ship (usually refers to the number of stiffeners the gage is Port or Starboard off the Centerline). If the gage is located between two stiffeners the character is a decimal number. The number to the right of the decimal is the percent distance the gage is between the two stiffeners and the number to the left of the decimal is the number of the inboard most stiffener. If the strain gage is on a bulkhead, deck or hull, then the bulkhead, deck or hull stiffeners, respectively, are used as reference numbers.

B8COHHRH

Gage is on Bulkhead 8 and it is located zero stiffeners P or S from Centerline

B8S2MFP

Gage is 2 stiffeners starboard of the Centerline on Bulkhead 8

Fourth Character

BBS2.5MFP

Gage is midway between 2nd and 3rd stiffener, starboard of the Centerline on Bulkhead 8

Fifth and Sixth Character

BBS2MFP

Gage is located on Bulkhead 8; 2 stiffeners starboard of Centerline and between the Main Deck (M) and Platform Deck (F)

Combination of two characters (see First Character for listing) gives approximate vertical location of gage. If the gage is located on a deck, these characters are omitted. If fifth and sixth characters are "NA", gage is near the N.A. of ASEM.

Seventh Character

(If not a Rosette)

BBS2MFP

Gage is on the nonstiffened or plate side of Bulkhead 8

Indicates whether the gage is on plate or stiffener. If the gage is on the plate, it may be on the stiffened or the nonstiffened side of the panel. If the fourth character is a decimal number, then it is positioned between two stiffeners, usually on the stiffened side of the structure

"P" - Plate

"S" or "W" - Stiffener (specifically the Web)

Seventh Character

(If a Rosette)

B8P5FFRD

Gage is one arm of a rosette

Indicates the channel is one of three arms of a rosette.



Eighth Character

Indicates the direction of rosette arms:

(If a Rosette)

"H" - If plane of the rosette is vertical, arm is horizontal

B8P5FFRD

Diagonal arm of a rosette on Bulkhead 8 near the Platform Deck

"L" - Arm is longitudinal

"D" - Arm is 45° arm relative to "L" or "V"

"V" - Arm is vertical

A slightly different system is devised for describing the location of gages near access holes:

First Character

Indicates access hole, "A"

APMM36C1S

Gage is near or on an access hole

Second Character

Gage location relative to port or starboard side of ship,

APMM36C1S

Access hole on port side of ship

"S" - Starboard

"P" - Port

"C" - Centerline plane of ship

Third and Fourth

Defines level the access hole is on;

Character

APMM36C1S

Port access hole is on the main deck

"MM" - On Main Deck level

"Mφ" - Between Main Deck and 01 deck level, on deckhouse side

"φφ" - on 01 Deck level

"TT" or "ZZ" - on 02 Deck level

"φT" or "φZ" - Between 01 and 02 Deck level

Fifth Character

APMM36C1S

Port access hole is at  
Frame 36 on the Main Deck

Specific frame or bulkhead location (may be a  
3-digit character);

Sixth Character

APMM36C1S

Gage is on the coaming of  
the port access hole at  
Frame 36 on the Main Deck

Indicates if the gage is on the coaming, "C", of  
the access hole or the plate, "P", adjacent to the  
access hole or if a rosette, "R", is on the plate  
adjacent to the access hole;

Seventh Character

APMM36C1S

Port Main Deck access hole  
at Frame 36, the gage is  
the first of a series of  
gages on the coaming

Gage number for a sequence of gages

- a) For coaming and plate gage: this number  
increases going clockwise (looking down) with  
#3 gage at end of corner radius (1, 2, 3, 4  
or 5) for square opening.
- b) For rosette: orientation of (V, L, D or H)  
rosette arm
- c) For oval (not square) holes: this gage number  
is omitted (see Eighth Character for oval  
holes).

Eighth Character

APMM36C1PA

Port Main Deck access hole  
at Frame 36, the gage is the  
first of a series on the port  
aft corner of the coaming  
(port relative to centerline  
of coaming)

Locates corner of access hole gage is located on.

For coaming gage:

- a) For square access holes, the corner is denoted  
by 2 letters  
"P" - Port or "S" - Starboard  
"F" - Forward or "A" - Aft
- b) For oval holes, counterclockwise angle is  
degrees to gage with 3 o'clock being 0°  
(looking inboard)

Eighth Character

APMM36P1PFO.5

Port main deck access hole at Frame 36, the gage is near the port forward corner of the port section of coaming and lines up with the first of a series of gages on the coaming. It is 0.5 in. from the coaming.

Plate gage:

The coaming gage that lines up with the plate gage is identified and then the distance from the coaming is identified as the 11th, 12th and 13th character.

Rosettes:

The corner of the hole is identified

"P" - Port or "S" - Starboard and

"F" - Forward or "A" - Aft

"φ" - 01 Level (top of hole)

"M" - Main Deck Level (bottom of hole)

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