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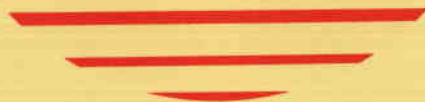
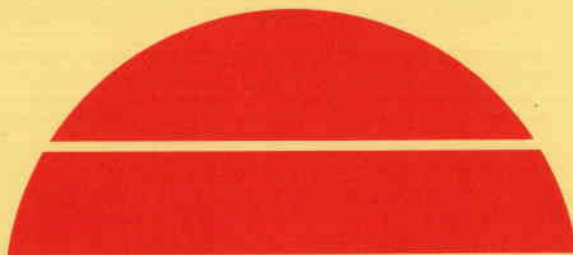
HELIOSTAT FIELD WIND-EFFECTS TEST

Final Report

February 1979

Work Performed Under Contract No. EY-76-C-03-1110

Martin Marietta Corporation
Denver, Colorado



U.S. Department of Energy



Solar Energy

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FINAL REPORT
HELIOSTAT FIELD WIND-EFFECTS TEST

Performed for
DEPARTMENT OF ENERGY
San Francisco Operations Office

February 1979

by
Martin Marietta Corporation
Denver Division
P.O. Box 179
Denver, Colorado 80201

Prepared under Contract No. DE-AC03-76ET20422

FOREWORD

This document presents the results of a series of wind-tunnel tests performed on a scale-model heliostat-field to determine the effects of wind and heliostat-field interaction with and without fences around the field perimeter. The tests were performed during August through November 1978 in the Environmental Wind Tunnel at Colorado State University at Fort Collins. The tests were performed as a part of Martin Marietta Corporation tasks under Department of Energy Contract No. DE-AC03-76ET20422, Central Receiver Solar Thermal Power System, Phase I.

The test objectives and requirements were developed, and overall test conduction and supervision was performed, by Martin Marietta. Colorado State University personnel headed by Dr. J. E. Cermack prepared the model, installed it in the wind tunnel, performed the test and reduced the data.

The contract was under the overall direction of Dr. Douglass Elliott, Department of Energy, San Francisco Operations. David Hickman, DOE, San Francisco Operations was contract administrator. Sandia Laboratories technical direction for this test was provided by Steven Peglow, Sandia Laboratories, Livermore, California.

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1. INTRODUCTION

This test was performed under DOE Contract No. DE-AC03-76ET20422, Central Receiver Solar Thermal Power System (CRSTPS), Phase I, in the Environmental Wind Tunnel (EWT) at Colorado State University. Two areas of the "North" Heliostat Field described in Martin Marietta's Preliminary Design Report, Volume III of the CRSTPS report, dated April 1977, were modeled to a 1:60 scale and installed in the EWT. A total of seventy-seven test runs were performed, and the data was recorded for various configurations. The areas represented relatively high and low packing density of heliostats in the field, and thus the results can be applied to a wide range of heliostat field configurations.

This report, together with the Colorado State University report containing the reduced data from the test (appended hereto as a part of this report), presents a compendium of the results and conclusions drawn from the test.

2. TEST OBJECTIVE

The objective of this test was to gather data on the wind effects on a heliostat field under the various field configurations and wind conditions described below:

- 1) The mean wind velocity and relative drag effects within and over the heliostat field;
- 2) The effect of the heliostat field on wind-flow patterns;
- 3) The use of man-made barriers (fences) on the heliostat field;
- 4) The possibility of any wave amplification or increased velocity which results in "slapdown" within the heliostat field.

3. TEST CONFIGURATION

The test was conducted in the Environmental Wind Tunnel at Colorado State University. The wind tunnel is a large, low-velocity facility having a turntable 3.66 m (12 ft) in diameter for the mounting of test models. Wind direction for a mounted model is varied by rotating the turntable as required. Previous wind tunnel testing has indicated that primary flow deceleration takes place within the first ten roughness heights (in this case, the first ten heliostats in the wind-stream). In order to assure at least ten roughness heights for this test, a scale of 1:60 was selected.

The heliostat field configuration shown in Figure 3-1 is the "north-field" configuration for a north-facing receiver aperture, and is the configuration selected by Martin Marietta for the CRSTPS Preliminary Design Study. The total field requires 1554 heliostats. Only the two circled areas of the field (see Figure 3-1) were modeled for this test.

Three types of data were collected for the test: 1) moving pictures of smoke released in the heliostat fields in various configurations (flow visualization), 2) wind-stream velocity measurements made in pre-selected locations (and heights above the wind-tunnel floor)--these also provided turbulence intensity data, and 3) eight heliostats instrumented to detect the base-

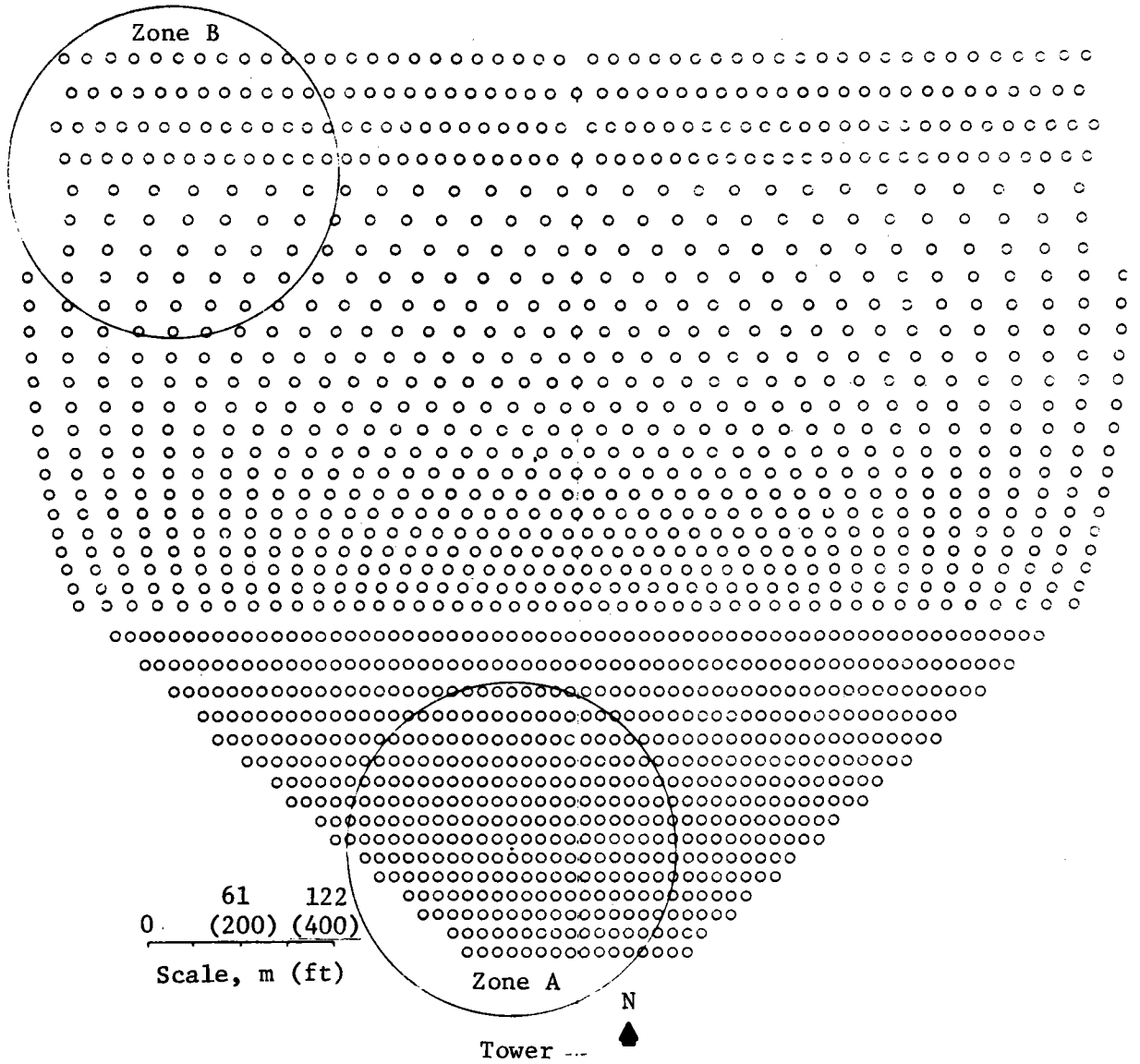


Figure 3-1 North Heliostat Field, Zone Locations

bending moments (about two axes) of the heliostats. The wind-velocity and moment data were recorded and plots were made to show the effect of wind through the field. Velocity data is depicted in the plots as local, measured velocity relative to an upstream sensor not affected by heliostat field disturbances. Local turbulence intensity data is the result of dividing the rms value of several hundred local measurements, taken over a period of approximately 20 seconds, by the mean of the same measurements. The instrumented heliostat models were located in distinct patterns for each zone that provided from four to six moment measurements across the field for each wind direction. The moment data is nondimensional and provides relative heliostat base-bending moment at each instrumented heliostat.

One of the criteria for this test was to simulate heliostat field approach - wind flow as closely as possible. The characteristic profile for wind over a desert-like terrain, such as the terrain a solar facility would be located, is given by the equation:

$$V_Z = V_{10m} \left(\frac{Z}{Z_{10m}} \right)^{\text{exponent}}$$

where the exponent is one-seventh (~ 0.14). For this test, the wind-tunnel was configured, by adding air flow trip, spires, and roughness areas upstream of the turntable to yield an exponent of 0.14.

3.1 Zone A - This area of the field is the high-packing-density portion. Within the circled portion of Zone A, there are 248 heliostats, and for each test, additional model heliostats were placed in the corner areas (outside the circled area) to complete the field within the wind tunnel to assure flow fidelity. In this area, the average heliostat packing density is 0.36 (heliostat reflective-area divided by land area occupied). For the tests on the Zone A configuration, selected combinations of the following variables were used:

a) Wind Directions:

These were selected from the sector that would permit the wind to be directed toward the field perimeter.

- 1) West
- 2) West southwest
- 3) Southwest
- 4) South southwest
- 5) South
- 6) Southeast

b) Nominal free stream velocity:

Tests on Zone B were run at three different velocities; however, all tests for Zone A were run at 32.9 km/hr (30 fps, 20.5 mph).

c) Fences

In addition to runs with no fence, the following fence heights and their distances from the heliostat field edge were used:

- 1) 4.6 m (15 ft) high, 15.8 m (52 ft) from field edge, 32% porosity
- 2) 4.6 m (15 ft) high, 15.8 m (52 ft) from field edge, 32% porosity with a 4.6 m (15 ft) high, 32% porosity, 33.5 m (110 ft) long fence section, placed perpendicular to the bisector of the main-fence Southwest corner, 3.0 m (10 ft) out from the corner.

d) Heliostat Configuration

The heliostat models were configured so that their azimuth and elevation angles were set to simulate (to the closest 5-degree point) one of the following times for each run:

- 1) 12:00 solar noon on March 21
- 2) 4:00 PM solar time on March 21
- 3) All heliostats stowed, with their elevation angles set in alternate rows to 87 degrees/93 degrees (reflective surfaces plus and minus 3 degrees from parallel with wind tunnel floor).

3.2 Zone B Configuration - This area of the field has a much lower packing density than Zone A, and it is, in fact, different for the north and south halves of the zone (notice pattern of heliostats in Figure 3-1). Average overall packing density for Zone B is 0.13; the north half packing density is 0.17, and for the south half it is 0.10. As with Zone A, additional model heliostats were

placed in corner areas for each configuration to complete the field to assure flow fidelity. For tests on the Zone B configuration, selected combinations of the following variables were used:

a) Wind Directions:

These were selected from the sector that would permit the wind to be directed toward the field perimeter:

- 1) West
- 2) West northwest
- 3) Northwest
- 4) North northwest
- 5) North
- 6) Northeast

b) Nominal free stream velocity:

Tests on Zone B were run at three nominal free-stream velocities:

- 1) 11.0 km/hr (10 fps, 6.8 mph)
- 2) 21.9 km/hr (20 fps, 13.6 mph)
- 3) 32.9 km/hr (30 fps, 20.5 mph)

c) Fences

In addition to runs with no fence the following fence heights and their distances from the heliostat field edge were used:

- 1) 6.1 m (20 ft) high, 15.8 m (52 ft) from field edge, 32% porosity
- 2) 4.6 m (15 ft) high, 15.8 m (52 ft) from field edge, 32% porosity

- 3) 4.6 m (15 ft) high, 25.0 m (82 ft) from field edge, 32% porosity
- 4) 3.0 m (10 ft) high, 15.8 m (52 ft) from field edge, 32% porosity
- 5) Two fences, both 3.0 m (10 ft) high, 32% porosity, placed at 15.8 m (52 ft) and 31.1 m (102 ft) from field edge.
- 6) 4.6 m (15 ft) high, 15.8 m (52 ft) from field edge, 32% porosity
- 7) 4.6 m (15 ft) high, 15.8 m (52 ft) from field edge, 32% porosity, with a 4.6 m (15 ft) high 32% porosity, 33.5 m (110 ft) long fence section placed perpendicular to the bisector of the main fence corner.

NOTE: Zone B tests were run before Zone A tests, so several fence configurations used for Zone B were eliminated for Zone A testing after Zone B preliminary data-evaluation.

d) Heliostat Configuration

The heliostat models were configured so that their azimuth and elevation angles were set to simulate (to the closest 5-degree point) one of the following times for each run.

- 1) 12:00 solar noon on March 21
- 2) 4:00 PM solar time on March 21
- 3) All heliostats stowed, with their reflective surfaces parallel with the wind-tunnel floor (elevation angles equal to 90 degrees)--one run only.
- 4) All heliostats stowed with their elevation angles set in alternate rows to 87 degrees/93 degrees (reflective surfaces plus and minus 3 degrees from parallel with wind tunnel floor.

4. RESULTS

Data collected by the three methods described in Section 3 (visual, velocity/turbulence, and moments) show reasonably good correlation of effects of wind in the heliostat field for various conditions of fence configuration and wind direction tested. The data was reduced and is included in the CSU report appended hereto.

In the no-fence configuration, the outer heliostats protect the inner heliostats for practically all wind directions and heliostat orientations tested. In the cases where wind approaches an unfenced heliostat field quarter-on to the direction of the rows, the flow tends to channel between the rows. Where the wind channels between rows, either in this fashion, or because the approaching wind is parallel with the rows, there is sufficient break-up of the wind stream at the edges of the channel, due to interaction with the heliostats, to reduce wind effects on downstream heliostats.

The use of fences to protect the outer heliostats is best shown in Figures 4-1 and 4-2. These show base-bending moment data average for several conditions of wind direction for the fence and no-fence cases. The northwest, Zone B fence corner, with a northwest wind is not included in the averages as it is a special case which is discussed further on in this report. The plots clearly show that the inner heliostats are protected by

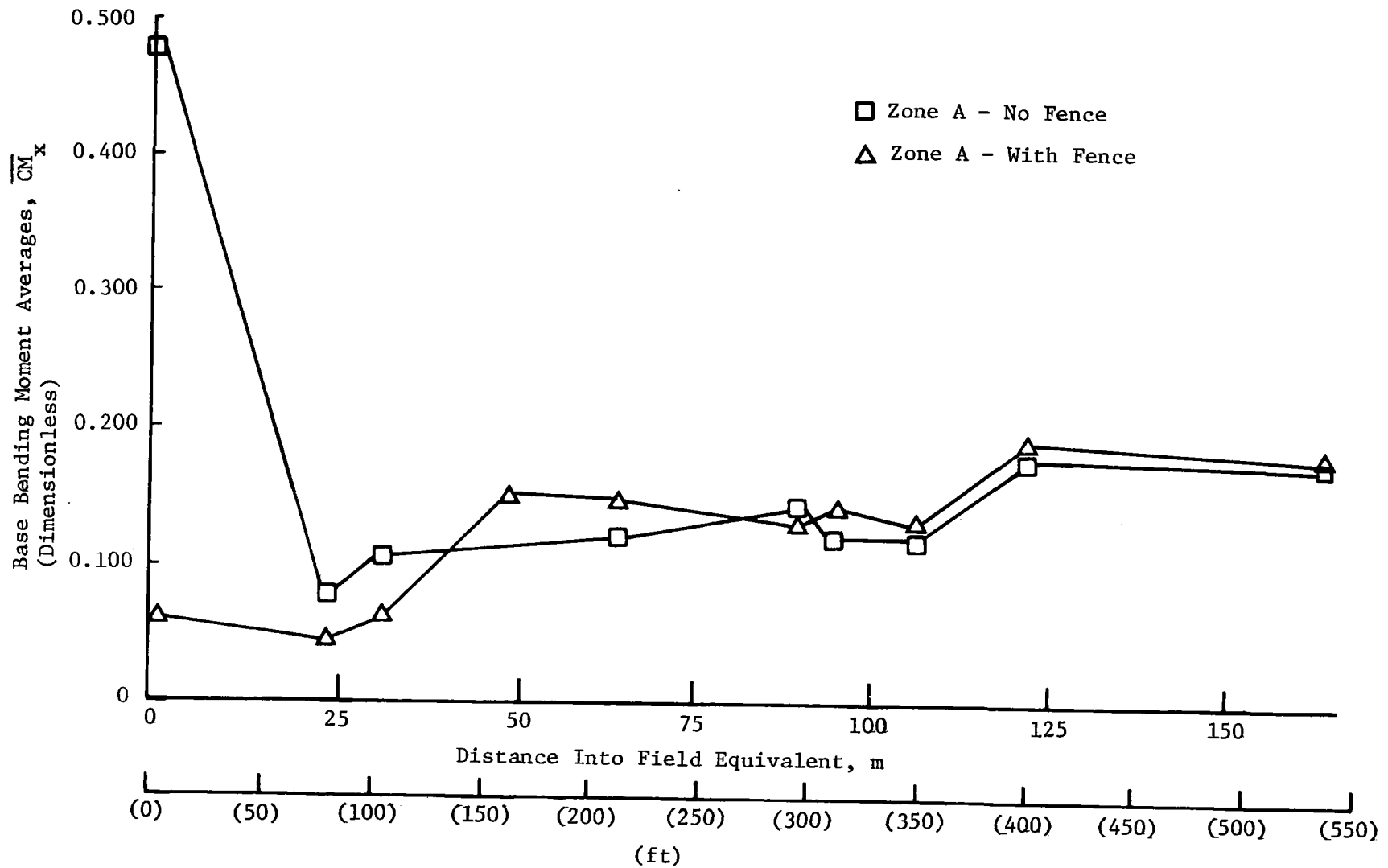


Figure 4-1 Base Bending Moments Averaged (\overline{CM}_x) for Various Wind and Fence Conditions, Zone A

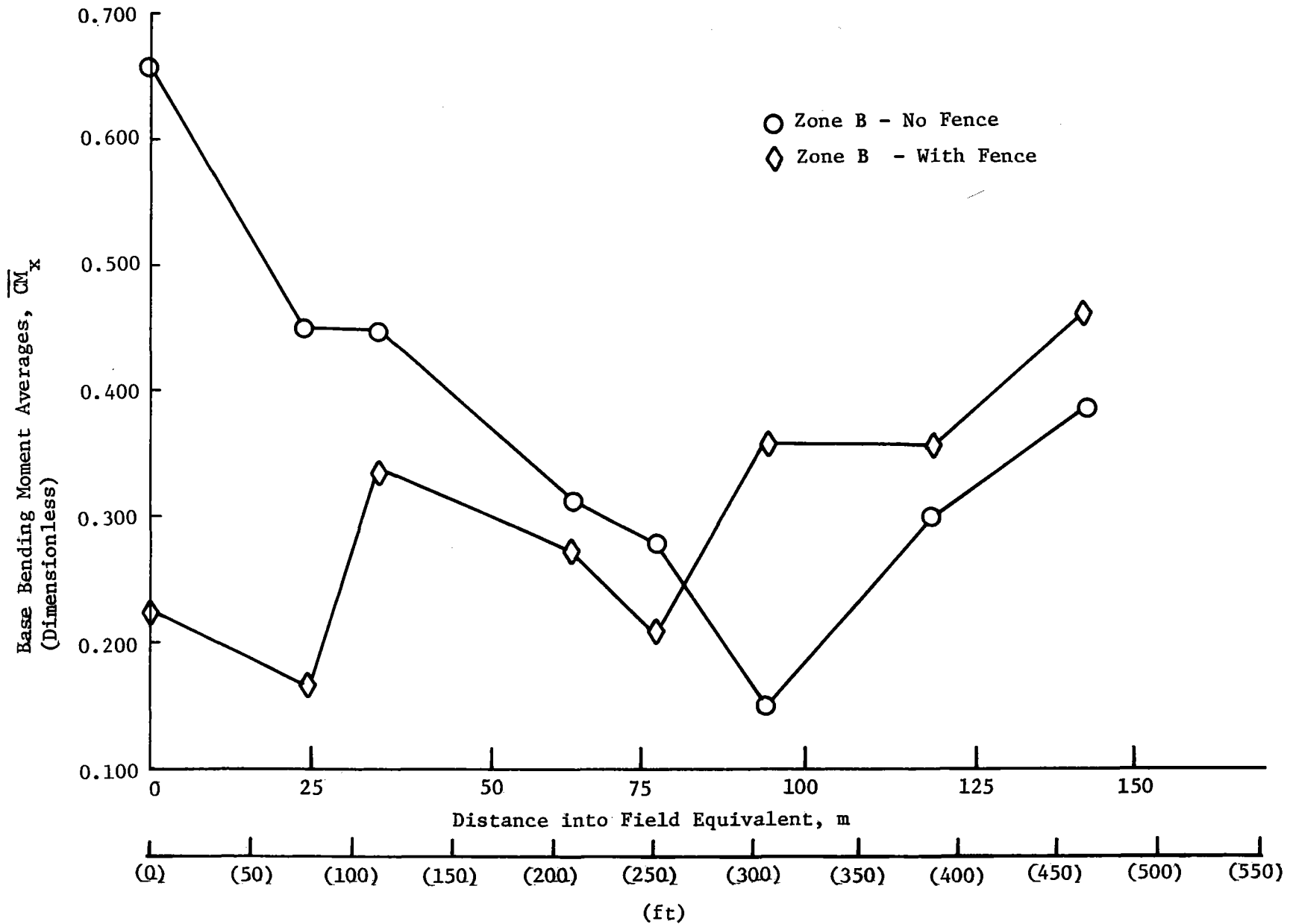


Figure 4-2 Base Bending Moments Averaged (\overline{CM}_x) for Various Wind and Fence Conditions, Zone B

the outer heliostats when no fence is used as well as when a fence is present. This protection is equivalent to the protection afforded the inner heliostats when the fence is added. The wind's effect on outer-row heliostats with no fence for protection is very high. The plots show that the higher-density Zone A provides much greater protection of inner heliostats (either with or without a fence) than is afforded by the low-density configurations of Zone B. The distance into Zone A (refer to Figure 4-1) at which moments decreased to a minimum (of less than 0.100 unit) is approximately 23 m (75 ft) (equivalent), or two heliostat rows. Downstream of the minimum point there is a slight decrease of bending moment out to 122 m (400 ft) (equivalent) after which moments again decrease. On the other hand, Figure 4-2 shows that, due to the low packing density of Zone B, the protection of inner heliostats is much less than for Zone A. The minimum (of approximately 0.175 unit) occurs at approximately 91 m (300 ft) (equivalent).

For the various fence heights used, the value of the highest fences tested (4.6 and 6.1 m (15 and 20 ft)) over the lower heights is questionable. In cases where a 3.0 m (10 ft) high fence was tested, it provided approximately the same protection for the outer heliostats as the outer heliostats alone (no fence) provide for the inner heliostats. These data indicate that the shorter 3.0 m (10 ft) high fence would be appropriate for uniform protection across the field.

The wind/fence combination which caused the greatest wind disturbance was the nearly-right-angle fence corner at the northwest corner of Zone B, with a northwest wind which bisected the corner angle. Under these conditions, the effect downstream was more pronounced than any other condition. Winds from any other direction did not result in the relatively high velocity and turbulence at this fence-corner region, that the northwest wind caused. Similarly, when the wind was directed parallel to the bisector of the more obtuse (135-degree) angle of the fence corner at the southwest corner of Zone A, the phenomenon was less evident. The effect is very evident at the northwest corner of Zone B in the three sources of data: 1) flow visualization, 2) wind velocity/turbulence, and 3) bending moments. The measurements do not, however, indicate an amplification of the wind velocity on any of the heliostats. That is, the effect of vortex shedding at the fence corner does not increase wind velocities above the approach-wind velocity, or cause moments on the heliostats in excess of those resulting without a fence at this corner. This phenomenon resulted in high levels of wind loading on the heliostats, but even this situation did not cause wave amplification or increased velocity to cause "slapdown" in the heliostat field.

An interesting observation is the effect of a north wind over Zone B. The velocity and related moments are diminished at

the center of the zone, but they again increase over the south half, or downstream portion. The packing density of the north half of the zone is 0.17, while for the south half, it is 0.10. This phenomenon occurs with or without a fence, and the velocity and moments have decreased to an apparent quiescent level over the higher-density north half of the zone. However, at the last measurement point in the south half of the zone, the levels are continuing to increase, indicating that a new quiescent level for the low-density portion of the field has not been reached.

5. CONCLUSIONS AND RECOMMENDATIONS

This test provided extensive, coherent data on the interaction of wind and heliostats in different heliostat field patterns, packing density variations, with and without fences of various heights, porosity and distance from field edge. The data can be utilized for the design of future heliostat fields from the standpoint of layout and protection (either by fences or by the heliostats themselves). The use of fences must be considered from an economic standpoint; accordingly this data should be applied to make the following determinations:

- . Is protection of outer heliostats with fences less expensive than increasing their resistance to wind effects by increasing their structure?
- . Should only the outer heliostats be made more rigid structurally than the inner heliostats, or, in the interest of standardization, should all heliostats be made equally structurally rigid?
- . Is the loss of energy and spillage around the aperture due to effects of wind on the outer heliostats (inner heliostats are protected by the outer ones) acceptable--in which case, fences or added rigidity need not be considered.

If used, fences must be designed with either very obtuse corners or without corners (possibly large-radius rounded around

the perimeter of a round heliostat field--the size and radius of such a configuration was not tested). If near-right-angle corners are used, the effect of a right angle wind parallel to the bisector can be ameliorated by placement of a length of fence outboard of the corner, perpendicular to the bisector.

APPENDIX A to:

MCR-79-1309

Heliostat-Array Wind Tunnel Study

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LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U'	Local mean velocity
U_{10}	Mean velocity at 10 meters height (prototype)
L	Characteristic dimension (building height, width, etc.)
ρ	Density of air
ν	Kinematic viscosity of approach flow
$\frac{UL}{\nu}$	Reynolds number
E	Mean voltage
A	Constant
B	Constant
n	Constant
rms	Root-mean-square
U_{rms}	Root-mean-square of fluctuating velocity
E_{rms}	Root-mean-square of fluctuating voltage
U_{∞}	Reference mean velocity outside the boundary layer
Z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U}$
H_z	Cycles per second
D	Distance of fence from heliostat field
H	Height of fence
A_h	Gross area of a heliostat (including slits)
H_h	Height of vertical support leg of a heliostat
M_x, M_y	Measured heliostat moments on X and Y axis
CMX, CMY	Coefficients of moment on X and Y axis

1. Introduction

One factor influencing the design and subsequent cost of a heliostat field is the magnitude of wind induced loads on the individual heliostats within the field. Four factors act to influence the loads on any individual heliostat--1) meteorological variables such as approach wind speed, direction, and stability, 2) the field geometry including heliostat shape, density, and geometrical pattern, 3) the location and orientation (time of day) of the heliostat within the field, and 4) the type of wind barrier, if any, erected around the edge of the field. Nothing can be done to modify the first factor. The second and third factors could be modified to reduce loads; however, the overall layout design of the field is severely constrained by other requirements. The fourth factor provides an opportunity to lower loads on heliostats near the edge of the array.

The purpose of this study was to investigate the flow patterns within two zones of a proposed heliostat field and to measure overturning moments on selected heliostats within the heliostat field. Variables investigated included array density (two zones of the proposed field of different density), time of day (heliostat orientation differences), location within the array, approach wind direction, and type of fence upwind of the heliostat field. Factors studied for the fence included the height, the distance between the fence and the edge of the field, the fence porosity, use of a double-row fence, and no fence.

The study was performed in the Environmental Wind Tunnel in the Fluid Dynamics and Diffusion Laboratory. This facility permitted modeling of the heliostat field to a 1:60 scale. Modeling of the wind flow over a heliostat field requires special consideration of flow conditions

in order to guarantee similitude between model and prototype. A detailed discussion of the similarity requirements and their wind tunnel implementation can be found in References (1), (2), and (3). In general, the requirements are that the model and prototype be geometrically similar, that the approach mean velocity at the model location have a vertical profile shape similar to the full-scale flow, and that the turbulence characteristics of the flows be similar. For sufficiently high Reynolds number ($>2 \times 10^4$) the airflow patterns about the heliostats will be essentially constant for a large range of Reynolds numbers. Typical values encountered are 10^6 - 10^7 for the full-scale and 10^4 - 10^5 for the wind-tunnel model. In this range acceptable flow similarity is achieved without precise Reynolds number equality.

2. Experimental Configuration

2.1 Wind Tunnel

The study was performed in the Environmental Wind Tunnel located in the Fluid Dynamics and Diffusion Laboratory at Colorado State University. The wind tunnel is an open-circuit facility driven by a 50 hp variable-speed propeller. The test section is nominally 12 ft wide, 7 ft high and 57 ft long fed through a 3.35:1 contraction ratio. The roof is adjustable to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously from 1 to 30 fps. A diagram of the wind tunnel is shown in Figure 1.

2.2 Field Site Considerations

The heliostat field used for this study was one of the array patterns under study for possible use in future heliostat-field applications. In order to select portions of the array most likely to be affected by strong winds and to determine a time of year when strong winds are most evident for selection of heliostat orientations, wind data for stations near the site of the 10.MWE Pilot Plant at Barstow, California were examined. Figure 2a shows the frequency of expected winds on an annual basis at three stations near the Barstow site (within about 130 miles). Based on the two closest stations, China Lake and Edwards AFB (about 60 miles maximum distance away), winds of 30 mph or greater can be expected for 1 to 3 percent of the time. Figures 2b and 2c show the frequency of occurrence of winds above 19.3 mph and 31.8 mph respectively for each of the three stations. From these data, it appears that the March through May time frame provides the time of year for highest winds. On this basis, the spring equinox, March 21, was

selected, in coordination with the sponsor, as the day of the year for use in this study.

In order to determine the most likely wind directions for study, wind direction frequency was plotted for the months February through May for Edwards AFB. The most frequent wind directions were Southwest through Northwest.

Based on the wind data discussed above, two zones of the heliostat field were selected in coordination with the sponsor for study: the 'A' zone incorporating close heliostat spacing in the Southwest corner of the field and the 'B' zone incorporating the widest heliostat spacing in the Northwest corner of the field. These two zones are described in more detail in later sections and are shown in their wind tunnel layout in Figure 9.

2.3 Model

In order to obtain an accurate assessment of local velocities and heliostat moment loads, the model was constructed to the largest scale that would allow the desired test zones to fit into the tunnel. A 1:60 scale model of each of the two heliostat field test zones was constructed from 0.375 in. thick aluminum sheets with holes drilled at the individual heliostat locations. Scale models of the individual heliostats (shown in Figure 3a) were then placed in the predrilled holes and both the azimuth and elevation angles were rotated to the nearest 5° setting for the specified time of day configurations. Special instrumented heliostats (shown in Figure 3b) equipped with strain gauges mounted on eight separate circular bases were placed into circular holes (6 in. diameter) in the aluminum base sheets at locations where overturning moments were to be measured. The instrumented heliostat locations were

chosen such that lines of data into the field for different wind directions would be established. Three approximate lines were established for Zone B, and two approximate lines were established for Zone A. Dimensioned drawings of the ordinary and instrumented heliostat models are shown in Figures 4 and 5.

The various wind barriers placed around the edge of the heliostat field were constructed of perforated sheet metal bent at right angles so that it could be set on the floor of the wind tunnel and easily moved to different locations. The sheet metal barriers were punched with 0.375 in. diameter holes at two different spacings to provide 32 percent and 57 percent porosity fences. The heights of the fences were 2, 3, and 4 inches (10, 15 and 20 ft full-scale).

2.4 Experimental Arrangement

The test zones were mounted on a 12 ft diameter turntable centered 45 ft (13.6 m) downstream from the test-section entrance. The turntable was calibrated to indicate azimuthal orientation to 0.3 degrees. The region upstream from the model was covered with 1/4 in. thick pegboard with 1/4 in. diameter, 1/2 in. long wooden pegs inserted to form a pattern of roughness which would produce the desired approach flow. Spires were installed at the test section entrance to provide a thicker boundary layer than would otherwise be available. The spires were approximately triangularly shaped pieces of 1/2 in. thick plywood, 6 in. wide at the base and 1 in. wide at the top, extending from the floor to the top of the test section. They were placed so that the broad side intercepted the flow. Splitter plates, triangular in cross section and made to fit the shape of the spires, were placed downstream from, but in contact with, the spires to form streamlined obstructions

in the airflow path. An additional flow trip consisting of 7-in.-high bricks standing on end spaced at approximately 1 ft was placed 8 feet upstream of the spires in the intake transition section. This combination of spires and trip provided a boundary layer thickness of approximately 4 ft and an approach velocity profile power-law exponent similar to that for flow over smooth terrain like that at the heliostat field site, and a logarithmic velocity profile with a realistic roughness length. Photographs of the completed models in the wind tunnel are shown in Figure 7.

Eight individual heliostats were selected from each test zone for the measurement of moments. Also, for each approach wind direction several locations (usually five) were selected for velocity profile measurements. These locations were near the center axis of the wind tunnel and whenever possible they were placed near instrumented heliostats. Six velocity profiles were taken to define the approach flow. The locations for these approach velocity profiles are shown in Figure 8. A map for each of the 12 wind directions (2 test zones--6 wind directions each) tested showing the locations for the instrumented heliostats and velocity profiles is provided in Figures 10a through 10l.

3. Instrumentation and Data Acquisition

3.1 Flow Visualization

Making the airflow visible within the heliostat array is helpful in defining areas of high or low velocity, flow channeling, or other flow characteristics which may increase or decrease loading. Titanium tetrachloride smoke was released from sources on and near the model heliostats to make the flow lines visible to the eye and to make it possible to obtain motion picture records of the tests. A guide to the motion picture scenes is given in Table 2. Results of these smoke studies are discussed in Section 4.1, and the conclusions are stated in Section 5.

3.2 Velocity Profiles

Mean velocity and turbulence intensity profiles were measured upstream of the model (see Figure 8) to determine the characteristics of the approach wind. Tests were made at several wind velocities in the tunnel. The test velocities were approximately 10 fps, 20 fps, and 30 fps. These velocities were sufficiently high enough to produce Reynolds number similarity of mean velocity profile shapes between the model and prototype as discussed in Section 1.

To determine quantitatively the wind environment within the heliostat field, mean velocity and turbulence intensity profiles were taken at 61 locations throughout the two test areas. These profiles were intended to show the changes in velocity as the locations moved deeper into the field. Velocity profiles and overturning moments were obtained for selected combinations of test zone (A or B), wind direction, free stream velocity, heliostat configuration (time of day), and fence configuration. The test matrix, selected in coordination with the

project sponsor, is shown in Table 1. Table 1 includes the test plan for flow visualization, velocity profiles, and overturning moments. Zone B, the less dense of the two, was studied first and the data was partially analyzed before the test plan for Zone A was put into final form. In this way, the number of fence configurations was reduced for the tests on Zone A.

Velocity measurements were made with a single hot-wire anemometer. The probe was mounted with its axis horizontal and was supported from a vertical traverse which was positioned behind the model so as not to create a disturbance near the model. The instrumentation used was a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. diameter platinum film sensing element 0.020 in. long. Output from the anemometer was fed to an on-line data acquisition system consisting of a Hewlett-Packard 21MX computer, disk unit, card reader, printer, Digi-Data Digital tape drive and a Preston Scientific analog-to-digital converter. The data was processed immediately into mean velocities, turbulence intensities, and corresponding heights and stored on the computer disk for printout or further analysis.

Calibration of the hot-wire anemometer was performed using a Thermo Systems calibrator (Model 1125). The calibration data were fit to a variable exponent King's Law relationship.

$$E^2 = A + BU^n$$

where E is the hot-wire output voltage, U the approach velocity and A, B, and n are coefficients selected to fit the data. The above relationship was used to determine the mean velocity at measurement points using the measured mean voltage data. The fluctuating velocity in the form U_{rms} (root-mean-square velocity) was obtained from

$$U_{rms} = \frac{2 E E_{rms}}{B n U^{n-1}}$$

where E_{rms} is the root-mean-square voltage output from the anemometer. The turbulence intensity is then the ratio U_{rms}/U .

3.3 Moment Measurements

In order to determine overall mean moments on individual heliostats within the array, eight heliostats were instrumented to measure moments about two horizontal, orthogonal axes near ground level. The instrumented heliostats are shown schematically in Figure 5 and a photograph of one unit is shown in Figure 3b. The base of the heliostat was supported by two sets of straining leaf springs which were assumed to be rigidly clamped at the outer circle and at the inner base support. Analysis of the configuration showed that drag force and vertical force due to heliostat and center base weight plus vertical aerodynamic force would be second-order effects which would not show up in the moment measurement and that bending moment applied at the heliostat base would be the primary load measured. Further analysis showed that the torsional resistance due to the orthogonal set of springs would be no more than about 20 percent and would be a linear function of applied moment--an effect which could be removed by calibration.

A coordinate system was established which was fixed to the base of the heliostat (see Figure 5b). At local solar noon, positive X was approximately east and passed through both legs of the heliostat. Y was approximately north and was perpendicular to a plane formed by the two heliostat legs. In other words, positive Y pointed north for a heliostat on the field centerline at local solar noon. The point of

action of the moment was 0.19 in. (11.4 in. full-scale) below the ground surface. Moment sense about the axes are defined by the right-hand rule.

Strain gages were applied to the top and bottom of each spring for temperature compensation purposes. The strain gages were protected from the flow in the airstream to prevent differential heat transfer from the various strain gages. It was found that failure to protect the strain gages from the flow caused error in measurements of moments of up to 15 or 20 percent in the worst cases.

Each heliostat was calibrated individually both in positive and negative moment direction. A typical calibration curve is shown in Figure 6. The calibrations were linear in the working region and had essentially no cross-talk from the orthogonal set of strain-gaged springs. Each transducer was calibrated repeatedly throughout the measurement period. Calibrations were found to be quite stable from one calibration to the next. Calibrations were performed with the heliostat in the stowed position. Weights were hung from precisely-established points on the heliostat in both positive and negative moment directions.

Each strain-gage bridge representing one moment measurement was monitored by a Honeywell Accudata 118 Gage Control/Amplifier unit which provided excitation to the bridge and amplified the bridge output. Further amplification was supplied by a Dana d.c. amplifier. The output was filtered using a 10 Hz low-pass filter to remove high-frequency noise from the signal. The output data was processed through an on-line data acquisition system described above. Mean moments were calculated in engineering units as the data were taken and were stored on the system disk for further processing. Mean moment coefficients

in the form CMX and CMY (Coefficient of Moment along X and Y axis) were obtained from

$$CMX = \frac{M_x}{\frac{1}{2}\rho U_{10}^2 A_h H_h} ; \quad CMY = \frac{M_y}{\frac{1}{2}\rho U_{10}^2 A_h H_h}$$

where M_x and M_y are the measured X and Y moments; $\frac{1}{2}\rho U_{10}^2$ is the dynamic pressure at 10 meters prototype height (6.56 in. model), A_h is the gross area of a heliostat (including the slits), and H_h is the height of the vertical support leg. Since CMX and CMY are non-dimensional, expected prototype values of M_x and M_y can be estimated by multiplying CMX and CMY by the appropriate prototype values for $\frac{1}{2}\rho U_{10}^2$, A_h , and H_h .

4. Results

4.1 Flow Visualization

A movie included as part of this report shows the characteristics of flow within the heliostat field. Smoke is used to make the flow visible. A listing of contents of the movie is shown in Table 2. Several features can be noted from the visualization. The effect of placing a fence in front of the heliostat field can easily be seen. The flow is dramatically slowed directly behind the fence and for a distance into the field. Also, it can be seen how the flow accelerates up and over the top of the fence and then reattaches to the surface a short distance into the field. However, it is difficult to discern any difference between the effects of the 15 ft-high-fence at 52 and 82 ft from the field and the 20 ft-high-fence 52 feet from the field.

The movie shows the formation of vortices that originate from the corner of the fence for Northwest approach winds for Zone B. The movie also shows quite clearly how the addition of a short length of fence at the Northwest corner of Zone B for Northwest winds helps to inhibit the formation of these vortices. Also, since the heliostats are aligned in rows the flow patterns for different wind directions vary noticeably. However, for wind directions near West the flow tends to be deflected and channeled down the rows near the ground. Finally, the increased density of Zone A tends to decrease the velocity towards the interiors of the field more than in Zone B.

4.2 Velocity Profiles

Velocity and turbulence profiles for the six approach locations and cases (Figure 8) are shown in Figures 11-13. These profiles were taken upstream of the heliostat field and at the center of the turntable

with no heliostats or fences in the wind tunnel. Figure 11 shows three approach profiles along the centerline of the wind tunnel. These profiles show good agreement along the tunnel axis. Figure 12 shows three approach profiles across the tunnel 10 in. upstream from the turntable. These profiles are essentially identical. Figure 13 shows two approach profiles at the same location (10 in. upstream of the turntable on the centerline) taken at two different wind speeds. The free stream velocities for the two profiles were 30.2 fps for APRCH2 and 9.1 fps for APRCH6. Figure 12 shows that the mean velocity profiles are nearly identical, while the turbulence profiles show that for the slower wind speed the local turbulence intensity is lower than that for the faster wind speed. At slightly higher speeds, the turbulence intensities were again similar. Most of the subsequent data was taken at a reference velocity of about 30 fps with some taken at 20 fps for Reynolds number independence checks.

Also, as shown in Figure 13 the boundary-layer thickness δ was 50 in. corresponding to a full-scale value of 250 ft. This is somewhat less than normally expected for flow over open country but provides a good simulation for structures of the size of the heliostats. In the form

$$\frac{U}{U_{\infty}} = \left(\frac{z}{\delta}\right)^n$$

the velocity profile exponent for APRCH2, APRCH4, APRCH5, and APRCH6 was 0.14. A value of 0.14 for n could reasonably be expected over the open terrain at the heliostat field site. Since the profile APRCH2 is directly upstream of the turntable and is a reasonable representation of the expected prototype approach flow, it was selected as the reference

approach velocity profile to which the profiles obtained within the heliostat field would be compared.

Mean velocity and turbulence profiles for the cases outlined in the test plan (Table 1) for the locations defined in Figure 10 are listed in tabular form in Appendix A and presented in graphical form in Appendix B. A profile designation code is presented at the front of each appendix. The profile plots of Appendix B are plotted several to a plot in order to permit direct comparison between profiles. At the beginning of Appendix B a guide to the different profile comparisons is provided. The mean velocity profiles are normalized by the free stream reference velocity measured by the pitot tube shown in Figure 8, which facilitates a direct comparison of all profiles regardless of the wind tunnel speed at which the profiles were measured. The local turbulence intensity plots show relative turbulence levels as $\frac{U_{rms}}{U}$ at any given height. Graphs 1-61 are for Zone B, while graphs 62-93 are for Zone A. Graphs 94-99 compare Zone B to Zone A.

Zone B--Graphs 1 and 2 of Appendix B show that the flow at the leading edges of the field is very similar for different wind directions. Graph 3 compares profiles at the five profile locations for a West wind with no fence and a tunnel speed of 20 fps. Some differences are evident in the lower 6 inches. Velocity decreases due to the presence of the heliostat field are relatively small. Graphs 4-13 show direct comparisons for different fence configurations for West and WNW winds at the various profile positions. These graphs show, to varying degrees, the slowdown induced by the different types of fence configurations. Graphs 12 and 13 especially show the difference a fence can make as compared to no fence. In fact, the no fence case

shows some speed up in the lower four inches due to some channeling of the flow. Graphs 14 and 15 show the differences from position to position for a NW wind at 10 and 20 fps. Graphs 16-25 show the variations in velocity due to fence configuration changes for NW and NNE winds. An important point to note is that the velocity speed-up at location 2 for the 20 ft-high fence 52 ft from the field in Graph 17 is a result of vortex development at the Northwest corner of the boundary fence. This effect will be discussed in more detail later. Graph 26 is a profile position comparison for a NE wind at 20 fps. Graphs 27-31 are fence configuration comparisons for a NE wind and again show the different velocity reduction trends for the various fences. Graphs 32-42 show additional comparisons of positions 1-5 for wind directions West, WNW, NW, NNE, and NE. These plots show what happens to the velocity as the distance into the field increases for the no-fence case and the 15 ft-high fence 52 ft from the field case. Note that in Graph 34, the velocity of the interior of the field (positions 2-5) is faster than at the edge of the field (position 1). This is due to vortex formation at the upstream fence corner bringing higher momentum flow down into the field for the NW wind direction. Graph 43 compares the profiles at position 1, no-fence, noon, and NW wind for 10, 20, and 30 fps wind tunnel speeds and shows very little difference. Graphs 44-46 compare profiles at position 1, 15 ft-high fence at 52 ft from field, for West, NW, and NE winds at noon, 4 P.M., and stowed heliostat configurations, and show only minor differences. Graphs 47 and 48 show the effect of adding the short-corner fence upstream of the Northwest fence corner for WNW and NW winds. The mean velocities decrease while the turbulence intensity increases considerably. Flow visualization showed that this short

section of fence substantially disrupted the vortices caused by the fence corner and prevented early downwash of high-momentum flow behind the fence corner. Graph 49 compares the noon and stowed heliostat configurations for a NW wind at position 1 with no-fence, and again shows very little difference. Graphs 50-54 compare the no-fence case with the 15 ft-high fence 52 ft from the field for both noon and 4 P.M. for a North wind, positions 1-5. The velocity decreases due to the fence is greater nearer the fence. Graphs 55-59 compare one stowed heliostat configuration (87° and 93° alternating pitches) with an alternate stowed (all pitches 90°) heliostat configuration for positions 1-5 for a North wind. There is very little difference between the two stowed configurations. Graph 60 is a fence configuration comparison for the 10, 15, and 20 ft-high fences, and the double-rowed 10-ft-high fence, at position 1 for a North wind. The shorter the fence the less the velocity decrease. Two 10 ft fences provide more protection than one 10 ft fence, but not as much protection as a single 15 ft fence. Graph 61 compares the 32 percent and 57 percent porosity, 15 ft-high 52 ft-from-field fences at position 1 for a North wind. The 57 percent-porosity fence causes slightly more velocity decrease than the 32 percent-porosity fence, but the velocities are very close.

Zone A--Graphs 62-64 compare the flow at the leading edge of the field for noon, 4 P.M., and stowed heliostat configuration for SW, South, and SE winds, and shows them to be very similar to the approach flow APRCH2. However, for a South wind and the noon and 4 P.M. cases (Graphs 62 and 63), a slight velocity speed-up occurs near the surface. This is caused by a venturi effect as the flow tries to get around the densely packed heliostats blocking its path. For other wind directions,

the flow deflects off of the heliostats somewhat. Graphs 65-88 are comparisons of profiles at the different profile positions (1-5) for all wind directions at noon, 4 P.M., and stowed heliostat configurations for no-fence and a 15 ft-high fence 52 ft from the field. Graphs 69 and 79 include profiles with the short-corner fence added for the SW wind. The plots show that moving into the field decreases the velocity more than it did for Zone B, a result to be expected since Zone A of the heliostat field is more dense than Zone B. Also, the plots again show that the effect of the barrier is more pronounced nearer the fence than it is back into the field. The addition of the short-corner fence for the SW wind again causes decreases in the mean velocity while increasing the turbulence intensity somewhat. Graphs 89-91 compare the no-fence and the 15 ft-high fence 52 ft from the field configurations to the approach flow APRCH2 for SW, South, and SE winds at noon and 4 P.M. at position 1. There is a small difference between the noon and 4 P.M. cases, but the velocity decrease due to the fence dominates the comparison. Graphs 92 and 93 again compare the no-fence to the 15 ft-high fence 52 ft from the field, and for positions 1 and 2 for SW and South winds in the stowed configuration. There are some differences in the two positions, but again the velocity decrease due to the fence dominates.

Because Reynolds number independence should be valid for model to full-scale comparisons, full-scale conditions may be determined by multiplying the profiles of Appendices A and B by a constant such that the velocities well above the heliostat field, or the approach velocity profiles, match those of the full-scale velocities to be studied.

Certain trends in the velocity data can be identified. The type and size of the fence causes changes in the amount of velocity decrease for only the profile locations close to the fence. As the distance into the field increases, the different fence configurations are hard to tell apart, other than the fact that any fence may be slightly beneficial over no-fence. Even this benefit becomes negligible farther into the field as the field geometry dominates. Near the edge of the field (about 2 or 3 rows deep) the 20 ft-high fence placed 52 ft from the field generally created slightly more velocity decrease than the 15 ft-high fence, which in turn created more velocity decrease than the 10 ft-high fence. The 15 ft-high fence at 52 ft and 82 ft from the field have very nearly the same velocity decrease with a slight benefit to the closer placement. The double-rowed 10 ft-high fence causes a little more velocity decrease than the single-row 10 ft-high fence but still less than the single 15 ft-high fence. The porosity difference of 32 percent to 57 percent causes very little change in the velocity profiles at position 1 North wind, Zone B where the influence of porosity was tested. For wind directions where a fence corner is upstream, the addition of a short-corner fence outside the fence corner (see Figure 7) shows marked improvement in the velocity decrease in the corner of the heliostat field.

Comparing Zones B and A in graphs 94 to 99 shows that the velocity decrease for positions 3, 4, and 5 with the 15 ft-high fence 52 feet from the field cases is greater in the A test area than in the B test area. This is especially evident for the North (Zone B) -- South (Zone A) wind comparison, while not quite as noticeable for the West wind comparison. This is expected since Zone A is much denser than Zone B and therefore creates more flow resistance. Both stowed configurations seem to alter the velocity profiles very little. For both cases, the

profiles are dominated almost entirely by whether or not a fence is in place, and then only the edge of the heliostat field is effected greatly. Finally, the introduction of fences increases the turbulence intensity dramatically, especially near the fence.

4.3 Moment Measurements

Moment coefficient plots for both CMX and CMY for the instrumented heliostats shown in Figure 10 are presented in Appendix D. The plots show both CMX and CMY versus distance into the heliostat field for all of the cases outlined in the test plan (Table 1). Appendix C lists the moment coefficients in tabular form. A moment designation code is presented at the beginning of each appendix. Also, the moment coefficient plots are presented several to a page and a guide to their order is supplied at the beginning of Appendix D. Graphs 1M-13M are for Zone B, while graphs 14M-20M are for Zone A.

A few general tendencies can be ascertained by examining these plots. First, the CMX's are much larger than the CMY's: on the order of ± 0.8 for CMX and ± 0.10 for CMY. Next, for Zone B the CMX's tend to be positive while for Zone A they tend to be negative. This occurs because for Zone B the wind comes from the West to NE while for Zone A it comes from the West to SE. It is also clear from the plots of Appendix D that the placement of any fence around the edge of the heliostat field almost always decreases the CMX loads for the heliostats nearest the edge of the field. However, for those cases when the wind comes directly at a corner of the field, for example a Northwest wind for Zone B, the CMX loads can be increased with a fence in place because of vorticies forming at the corner of the fences as discussed earlier (see Graphs 5M and 6M in Appendix D).

These various results can be seen more clearly in the plots shown in Figures 14 and 15. These figures show direct comparisons of the CMX's for different fence configurations for a given wind direction. Figure 14 gives comparisons for West, NW, and North winds for Zone B, while Figure 15 gives comparisons for SW, South, and SE winds for Zone A. These two figures show dramatically how the addition of a fence can reduce the magnitude of the moment loads on the heliostats near the fence. The moment loads then converge as the distance into the heliostat field increases. The only exception to this trend can be seen in the B/NW comparison of Figure 14. This is the case where the approach wind is directly towards the corner of the heliostat field. In this case, the addition of a fence does not change the moment loads on the two lead heliostats very much, but increases the loads on the 2nd, 3rd, and 4th heliostats because of the vortex formation at the corner of the fence which pulls high-momentum fluid down into the heliostat field. The loads begin to converge again further into the field. However, the addition of a short-corner fence across the flow just upstream of the regular fence corner has a large beneficial effect on the moment loads of the two lead heliostats while not affecting the others significantly. The implication is that the short-corner fence does provide a partial but not a complete, solution to the flow at the corner of a fence. Finally, Figure 16 compares moment coefficients for Zone B to Zone A. The first plot (B-A/WEST) compares the two zones for a West wind and shows only slight difference. Because the rows of heliostats provide little flow resistance to a West wind. However, the second plot (B-A/N-S) shows

the moment coefficients for Zone A to be markedly less than Zone B, as is expected since for the respective wind directions the flow is intercepting the rows and Zone A is more dense than Zone B.

5. Conclusions

A 1:60 scale model of a heliostat field array was constructed and tested for airflow patterns within two selected test zones, and for moment loads on selected individual heliostats. The tests were performed in a boundary-layer wind tunnel capable of simulating atmospheric winds. Flow visualization, quantitative velocity measurements, and overturning moment measurements were made for various combinations of test zone, wind direction, free-stream tunnel velocity, heliostat configuration (time of day), and upwind fence configuration. Based on these tests, the following conclusions can be drawn.

1. The placement of a fence around the edge of the heliostat field almost always reduces wind loads on the first several rows of heliostats. It decreases both the wind velocities and the moment loads on the heliostats.
2. A corner in a fence can increase wind loads on heliostats near the corner bisector for appropriate wind directions.
3. Placement of a short fence outside of a corner in the regular fence almost compensates for the adverse effects of a fence corner. Additional study on this effect is required to optimize the corner fence geometry.
4. Decreasing the height of an upwind fence or moving it further away from the field decreases the benefit received from the fence.
5. Increasing fence porosity from 32 to 57 percent had little effect on heliostat loads.

6. Two 10 ft fences spaced 50 ft apart caused lower heliostat moments than a single 10 ft fence, but not as low as a single 15 ft fence.
7. The increased density of Zone A generally caused less velocity and smaller moment loads farther into the field than measured for the less dense Zone B.
8. The wind loads near the edges of the field were dominated by the fence configurations, whereas the wind loads in the interior areas of the field were dominated by heliostat configuration and density.
9. Virtually no difference could be seen between wind loads on the stowed (87° and 93° pitch alternating rows) and the alternate stowed (all pitch 90°) heliostat configurations.
10. Higher velocities and very small moment loads were experienced within the field by the two stowed configurations because the heliostats offered very little resistance to the flow when turned edgewise.
11. The alignment of the heliostats in rows created noticeable channeling of the flow, especially for wind directions near West. This channeling was disrupted somewhat by the fences, but not entirely.
12. There was no evidence of increased velocity (faster than approach flow values) near the ground due to reattachment of the flow coming over the barrier fences in the interior regions of the test zones.

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7. "Revised Uniform Summary of Surface Weather Observations," Data Processing Division, USAFETAC, Air Weather Service (MAC), Edwards AFB California, May 1974.

Table 1

Test Plan

Zone Designation	Wind Direction	Time of Day	Desired Velocity	Fence Config.	Profile Position	Moment Data Sets	Flow Visualization Runs (~10 fps)
B	West (270)	12:00 (Noon)	20	0	1-5	1	5
			30	0-3	1-5	4	
B	WNW (292.5)	12:00 (Noon)	30	0-3	1-5	4	
			+	+ 5	3	1	
B	NW (315)	12:00 (Noon)	10	0	1-5	1	3
			20	0	1-5	1	
			30	0-3	1-5	4	
			+	+ 5	3	1	
B	NNE (22.5)	12:00 (Noon)	30	0-3	1-5	4	3
B +	NE (45)	12:00 (Noon)	20	0	1-5	1	
			30	0-3	1-5	4	
B	West	4:00 P.M.	30	2	1-5	1	
B	WNW	4:00 P.M.	30	2	1-5	1	
B	NW	4:00 P.M.	30	2	1-5	1	
B	NNE	4:00 P.M.	30	2	1-5	1	
B	NE	4:00 P.M.	30	2	1-5	1	
B +	West +	Stowed +	30	0	1-5	1	
			+	2	1-5	1	
B +	NW +	Stowed +	30	0	1-5	1	
			+	2	1-5	1	
B +	NE +	Stowed +	30	0	1-5	1	
			+	2	1-5	1	
B	North (000)	12:00 (Noon)	30	0	1-5	1	
				1,3,6,7,8	1	5	
		4:00 P.M.	2	1-5	1		
			0	1-5	1		
		Stowed	2	1-5	1		
			0	1-5	1		
Stowed	30	2	1-5	1			
Stowed	30	0	1-5	1			

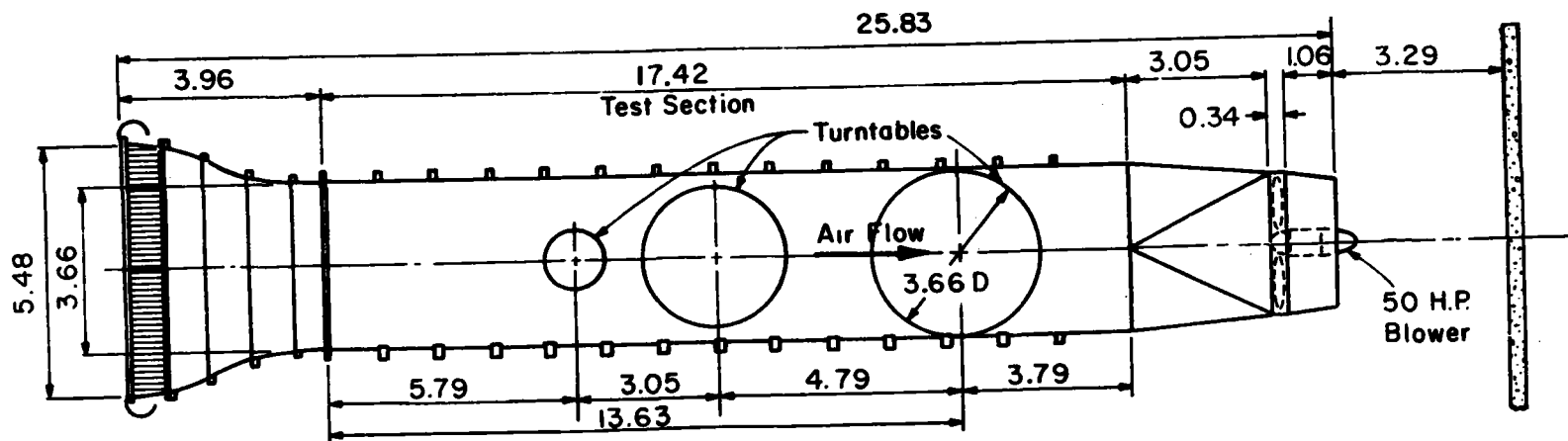
Table 1 (continued)

Zone Designation	Wind Direction	Time of Day	Desired Velocity	Fence Config.	Profile Position	Moment Data Sets	Flow Visualization Runs (\approx 10fps)
A	W	Noon	30	2	1-5	1	2
	WSW			2	1-5	1	
	SW			0	1-5	1	
				2	1-5,6	1	2
				5	6	1	
	SSW			2	1-5	1	
	S			0	1-5	1	
				2	1-5	1	
	SE			0	1-5	1	
				2	1-5	1	
	W	4:00 P.M.		2	1-5	1	
	WSW			2	1-5	1	
	SW			0	1-5	1	
				2	1-5,6	1	
				5	6	1	
	SSW			2	1-5	1	
	S			0	1-5	1	
				2	1-5	1	
	SE			0	1-5	1	
				2	1-5	1	
	SW	Stowed		0	1-5	1	
				2	1-5	1	
	S			0	1-5	1	
				2	1-5	1	
Total					331	73	17

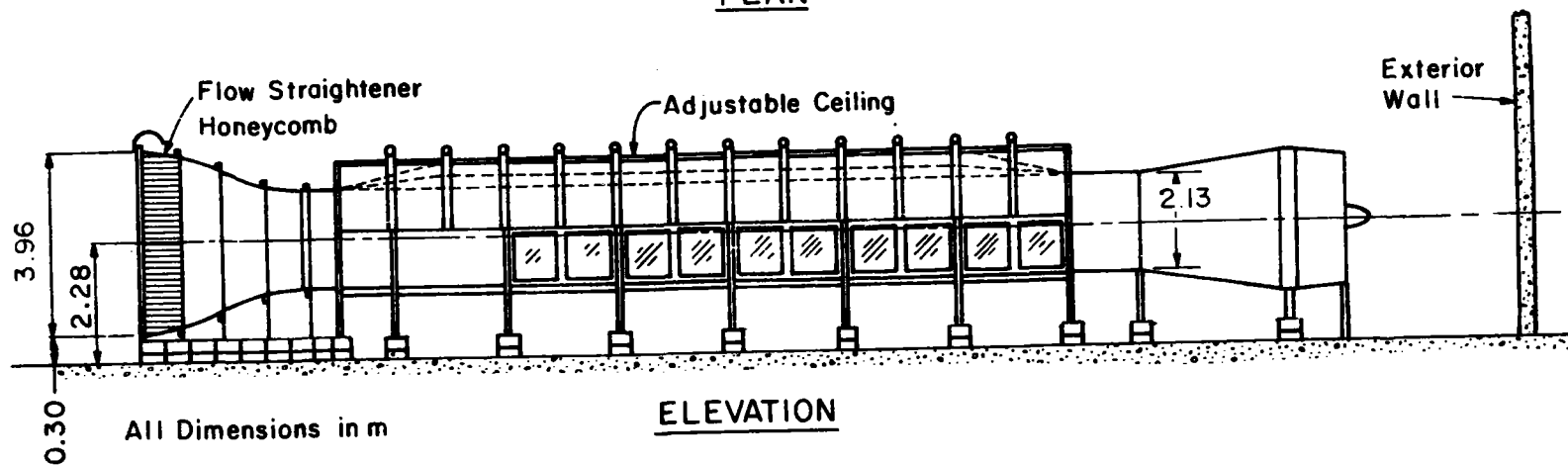
Table 2
Motion Picture Scene Guide

Run #	Wind Direction	Fence Condition	Time of Day	Zone
1	W	None	Noon	B
2	W	4"	Noon	B
3	W	3"	Noon	B
4	W	3" upstream	Noon	B
5	W	lowered then moved upwind	Noon	B
6	NW	None	Noon	B
7	NW	4"	Noon	B
8	NW	3" lowered	Noon	B
9	NNE	None	Noon	B
10	NNE	4"	Noon	B
11	NNE	3" lowered	Noon	B
12	W	None	Noon	A
13	W	3"	Noon	A
14	SW	None	Noon	A
15	SW	3"	Noon	A
16	S	None	Noon	A
17	S	3"	Noon	A

Length; 987 ft, 27.4 min.



PLAN



ELEVATION

All Dimensions in m

Figure 1. Environmental Wind Tunnel.

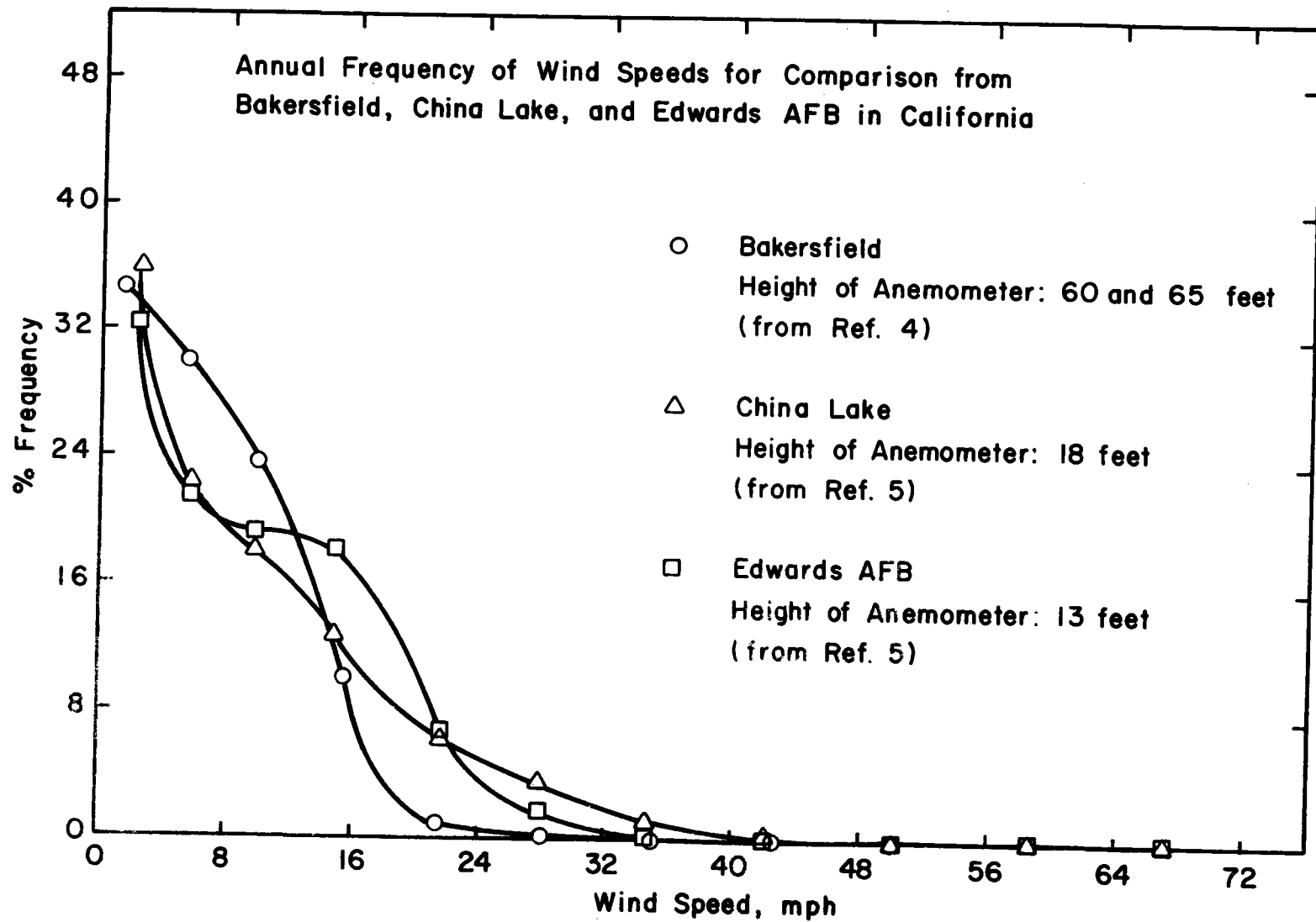


Figure 2a. Field Site Wind Data.

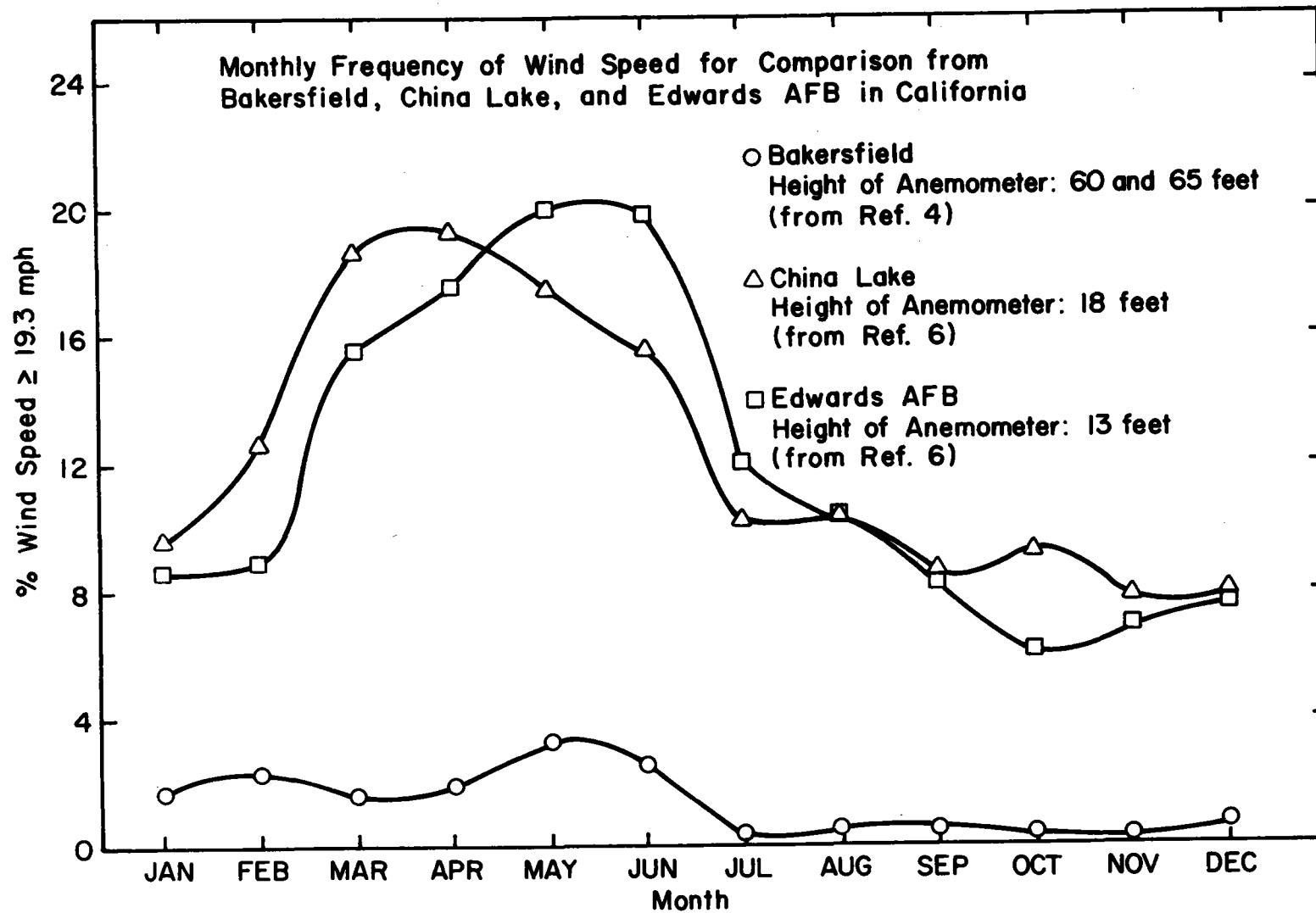


Figure 2b. Field Site Wind Data.

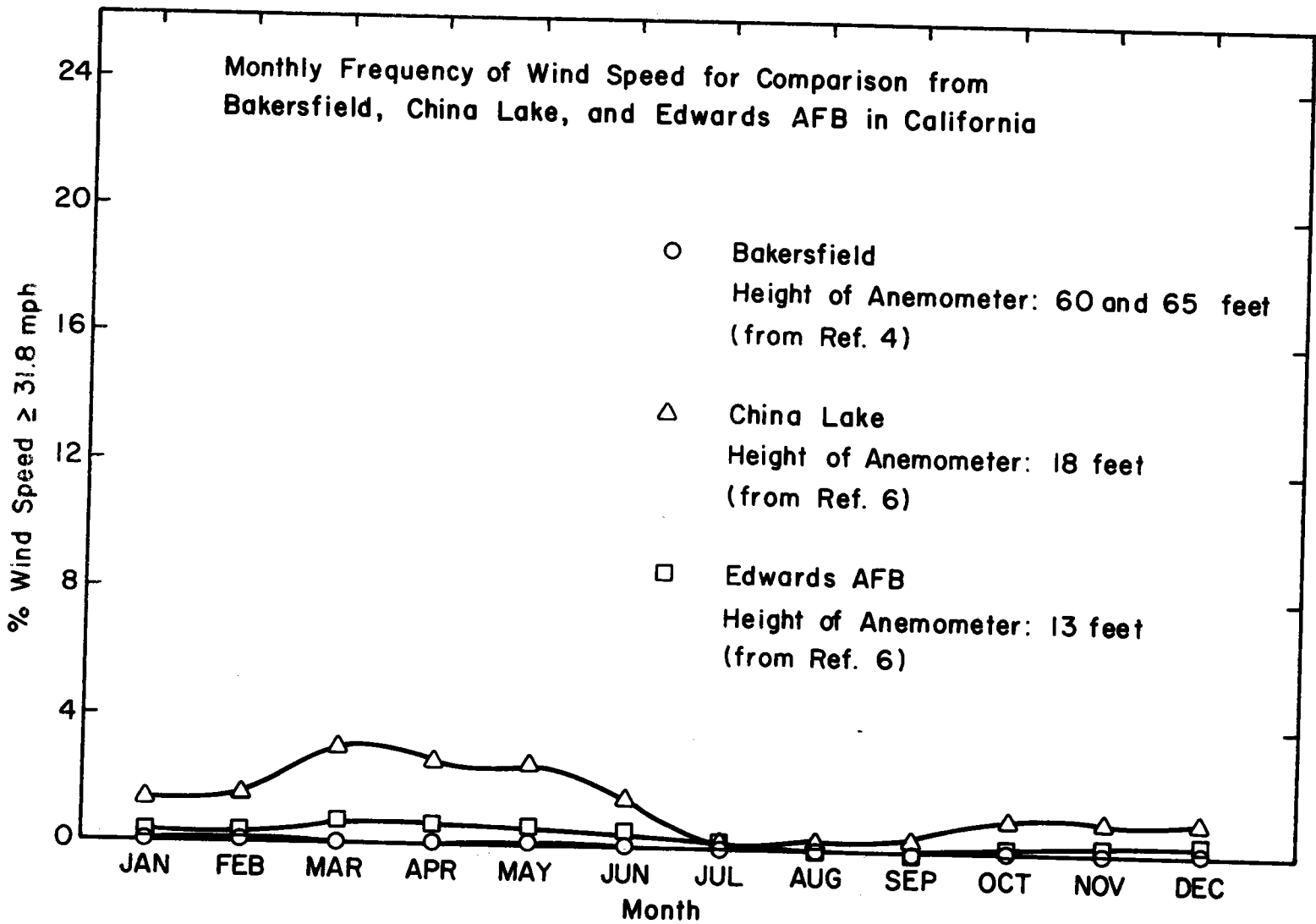


Figure 2c. Field Site Wind Data.

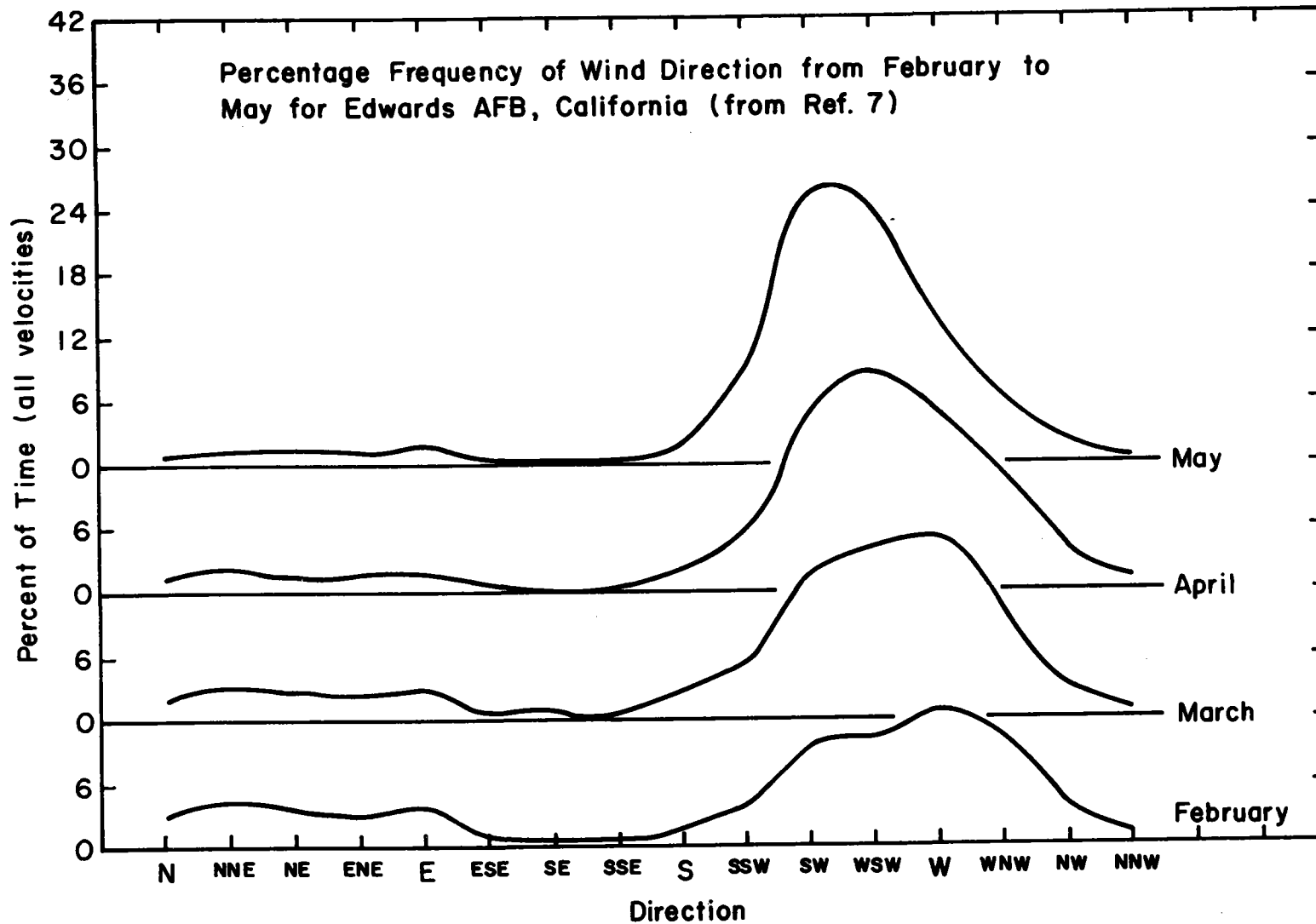


Figure 2d. Field Site Wind Data.

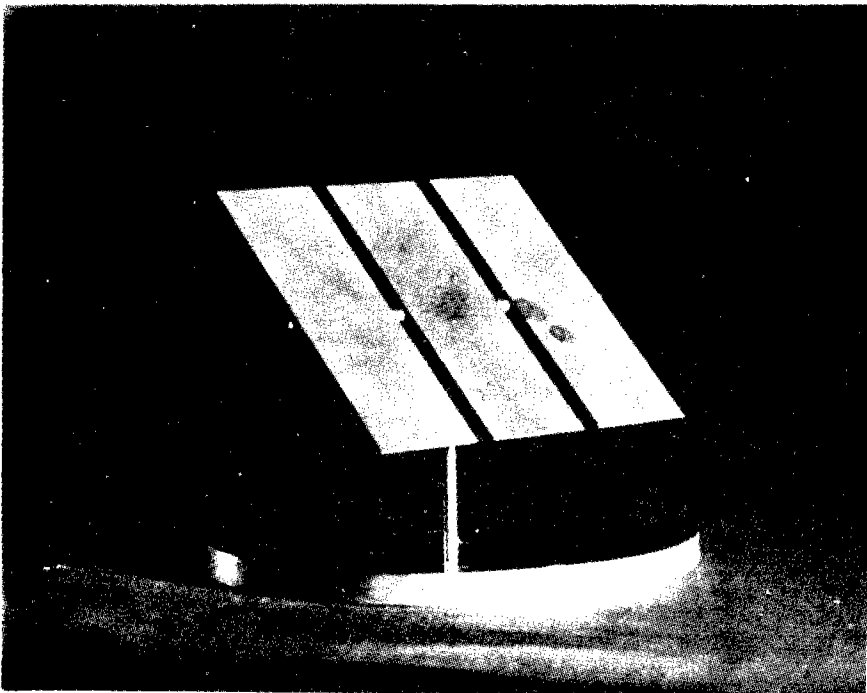
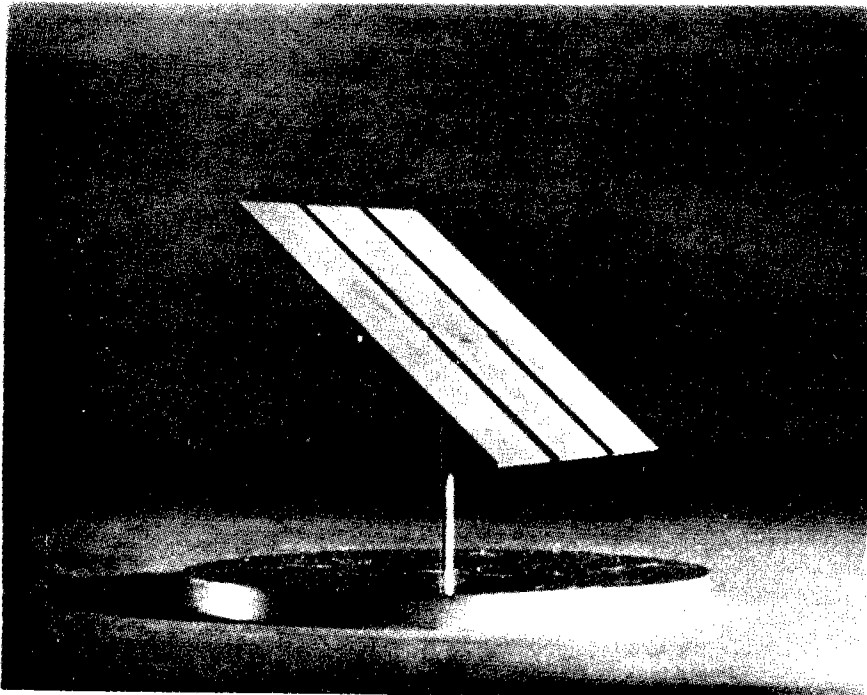


Figure 3a. Ordinary Heliostat.

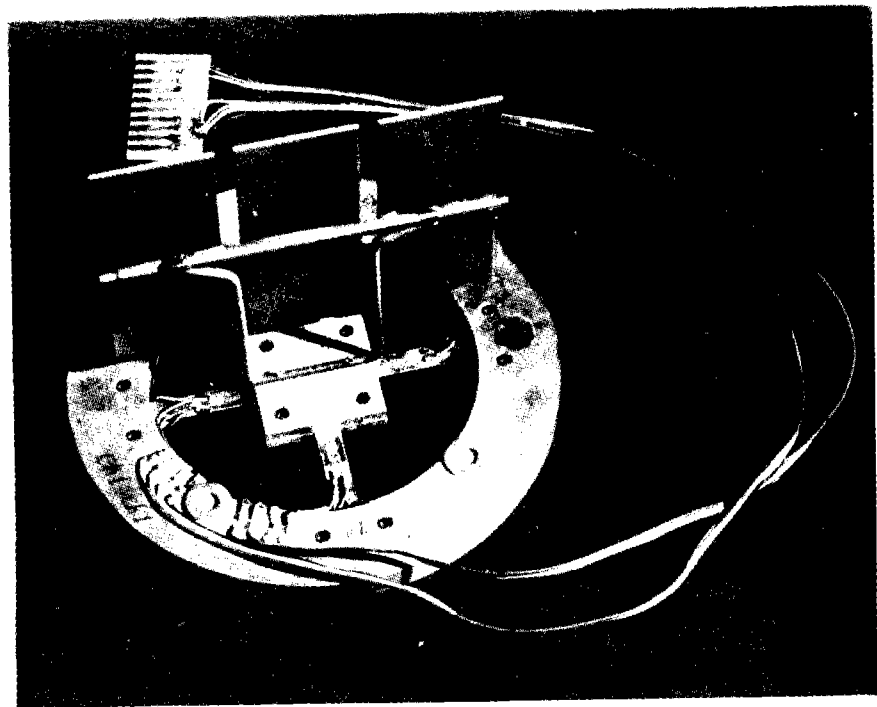
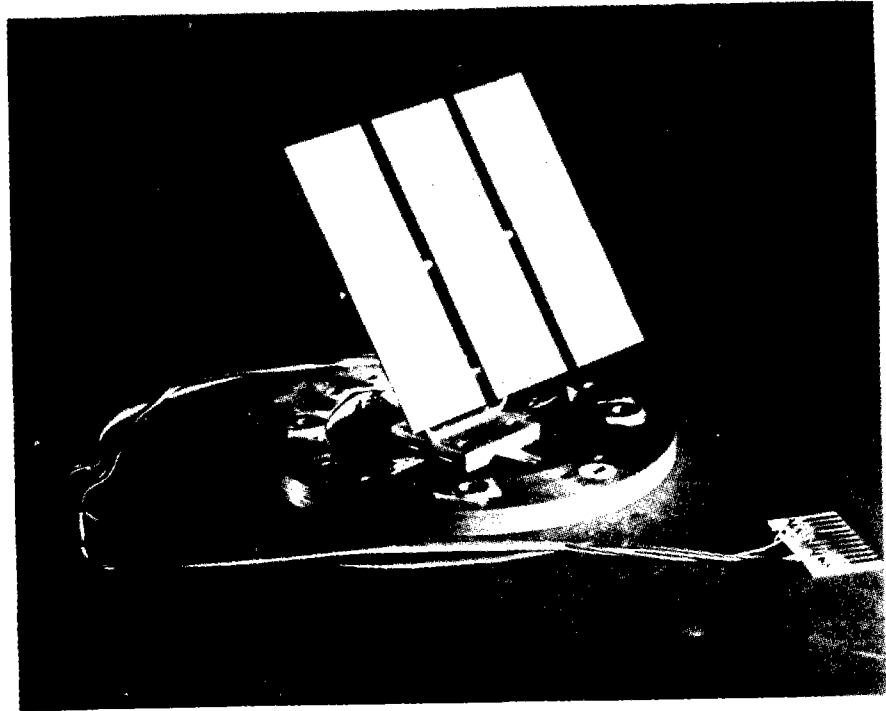
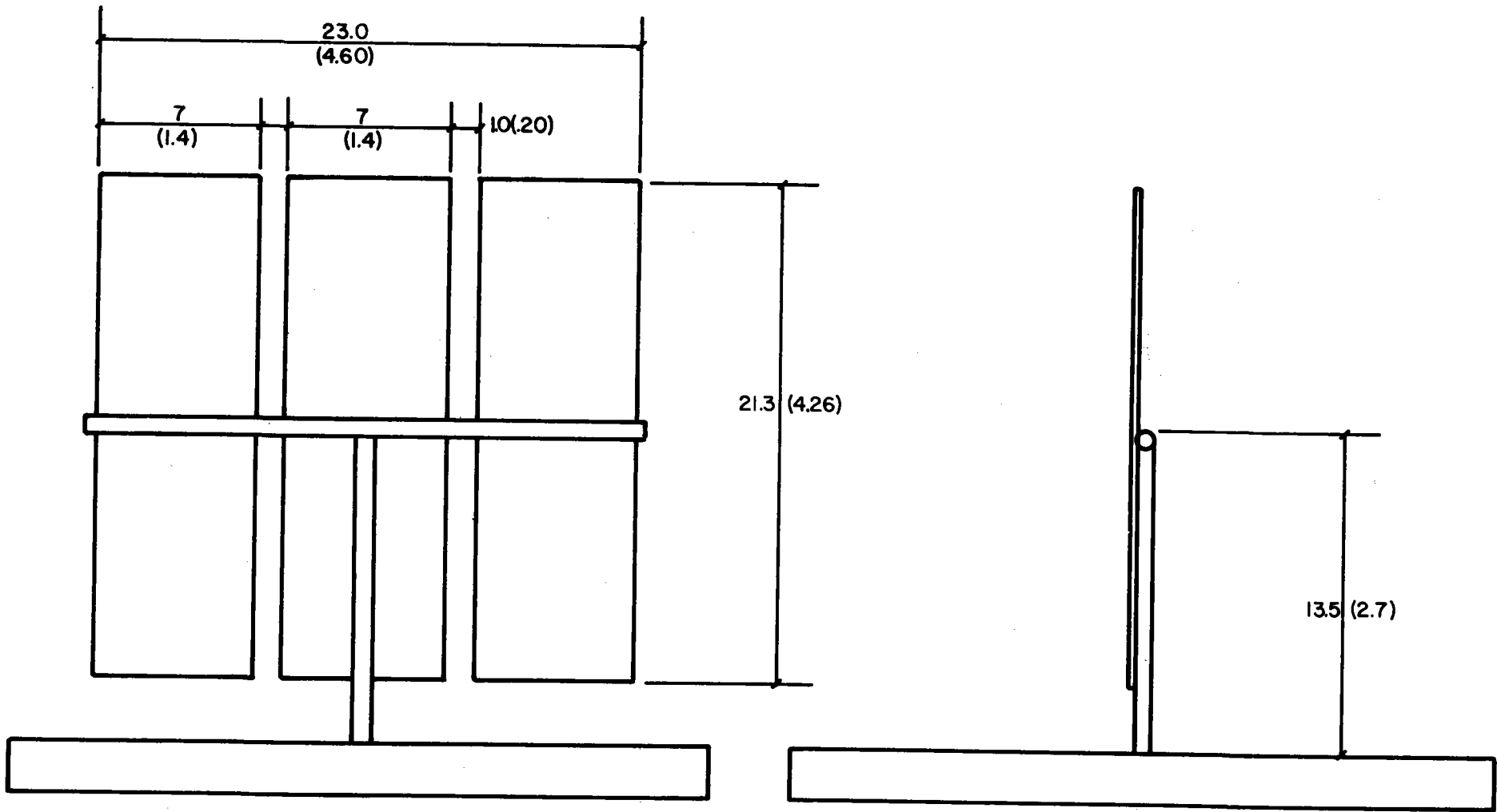


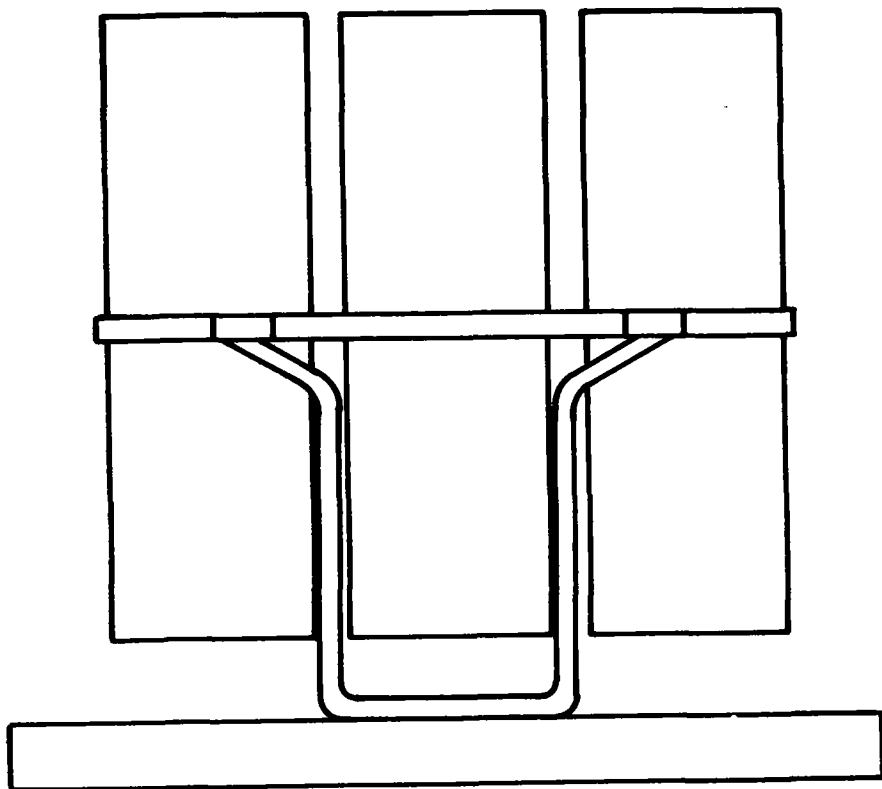
Figure 3b. Instrumented Heliostat.



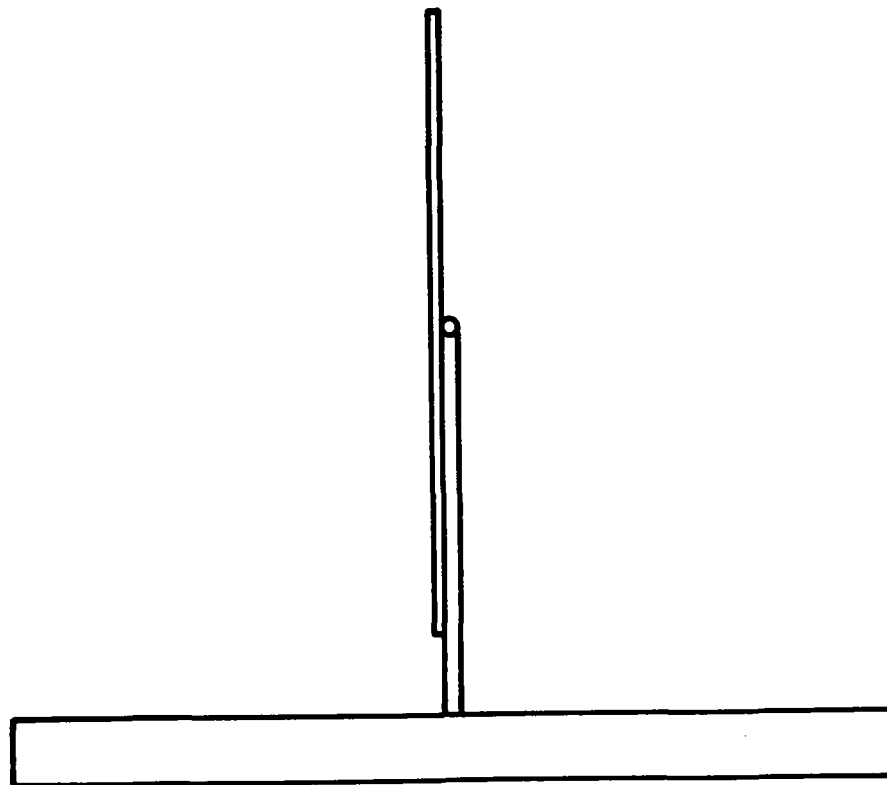
BACK VIEW

SIDE VIEW

Figure 4. Ordinary Heliostat--Dimensions in full-scale feet and model inches.



BACK VIEW



SIDE VIEW

Figure 5a. Instrumented Heliostat--Dimensions (dimensions same as Figure 4).

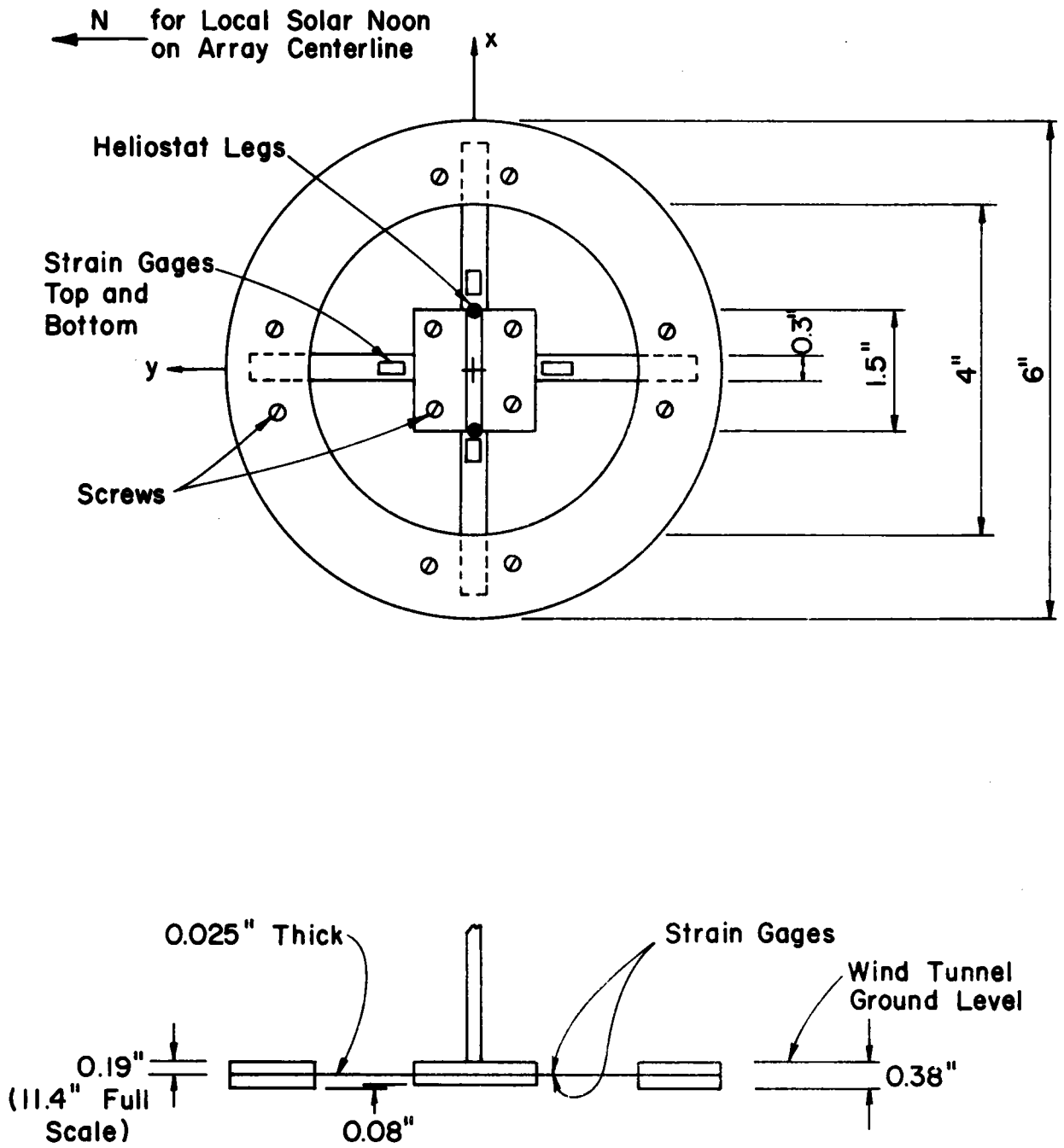


Figure 5b. Instrumented Heliostat--Dimensions.

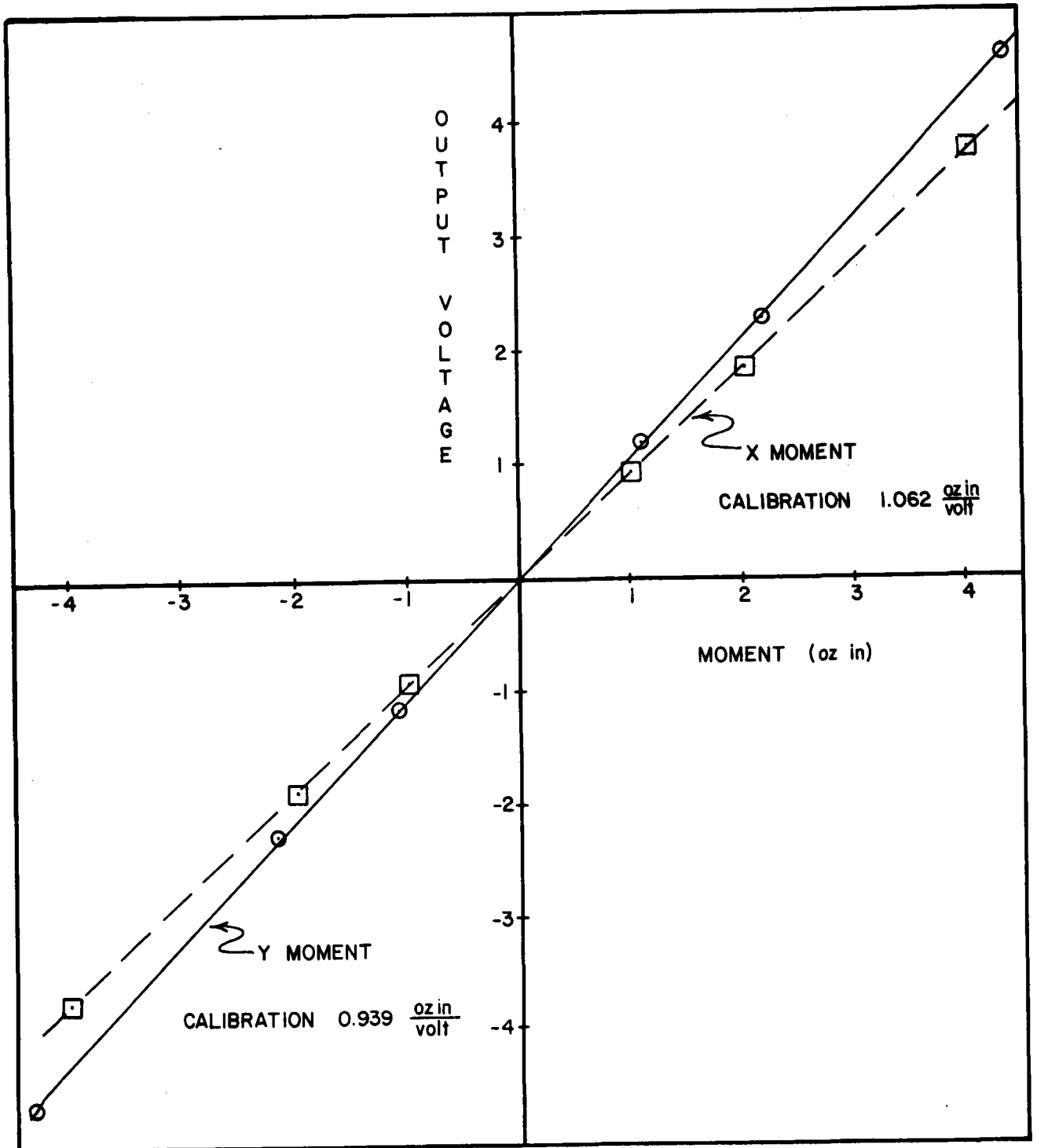


FIGURE 6 — TYPICAL INSTRUMENTED HELIOSTAT MOMENT CALIBRATION CURVE

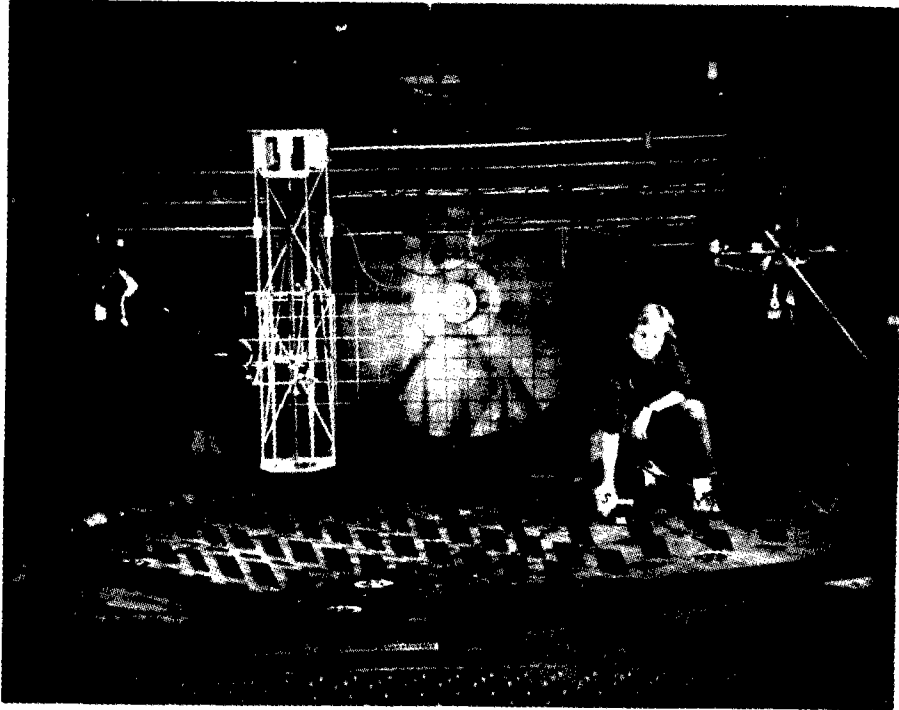


Figure 7a. Model in Tunnel.



Figure 7b. Model in Tunnel.

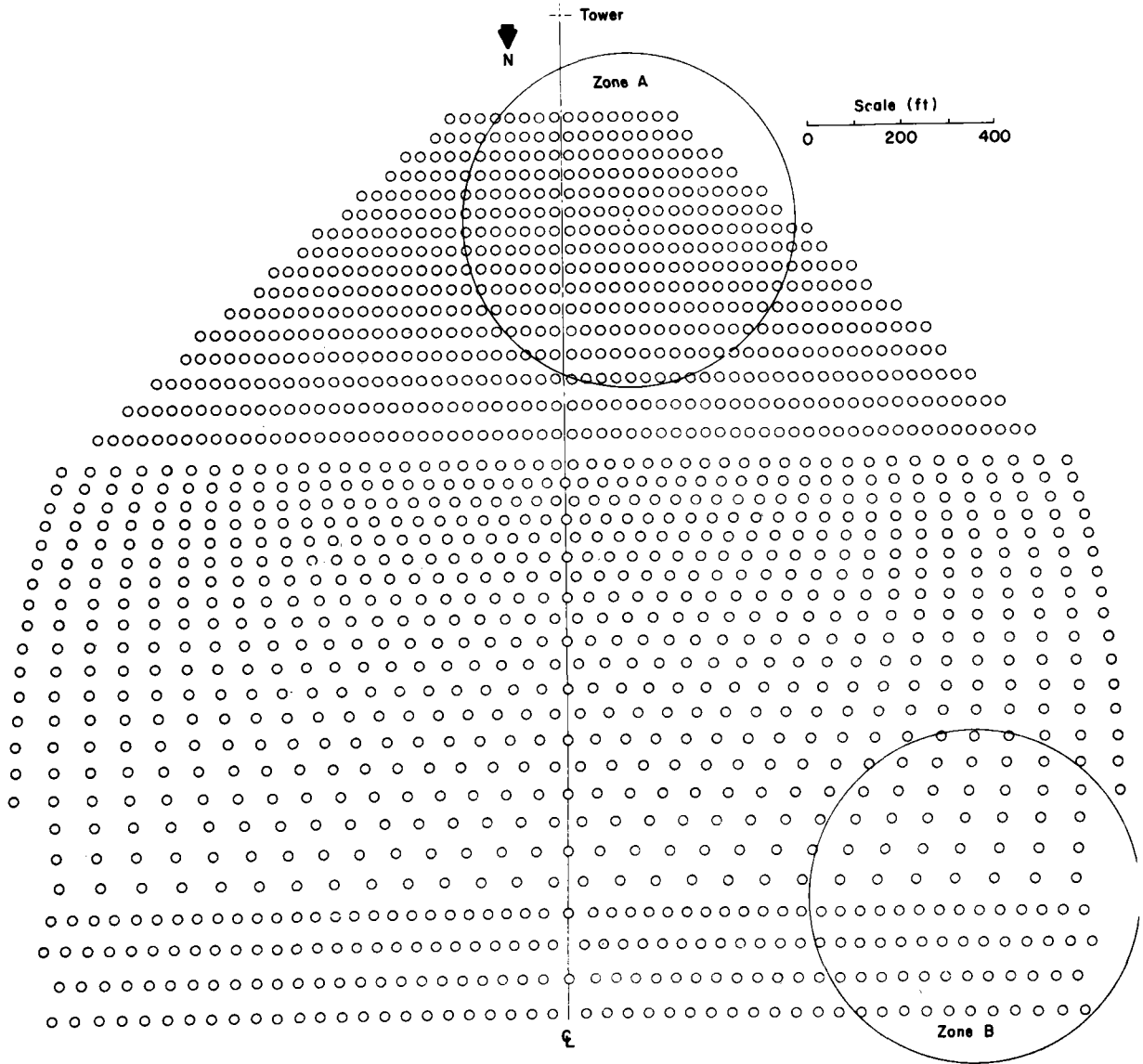


Figure 9. Test Zone Location Map.

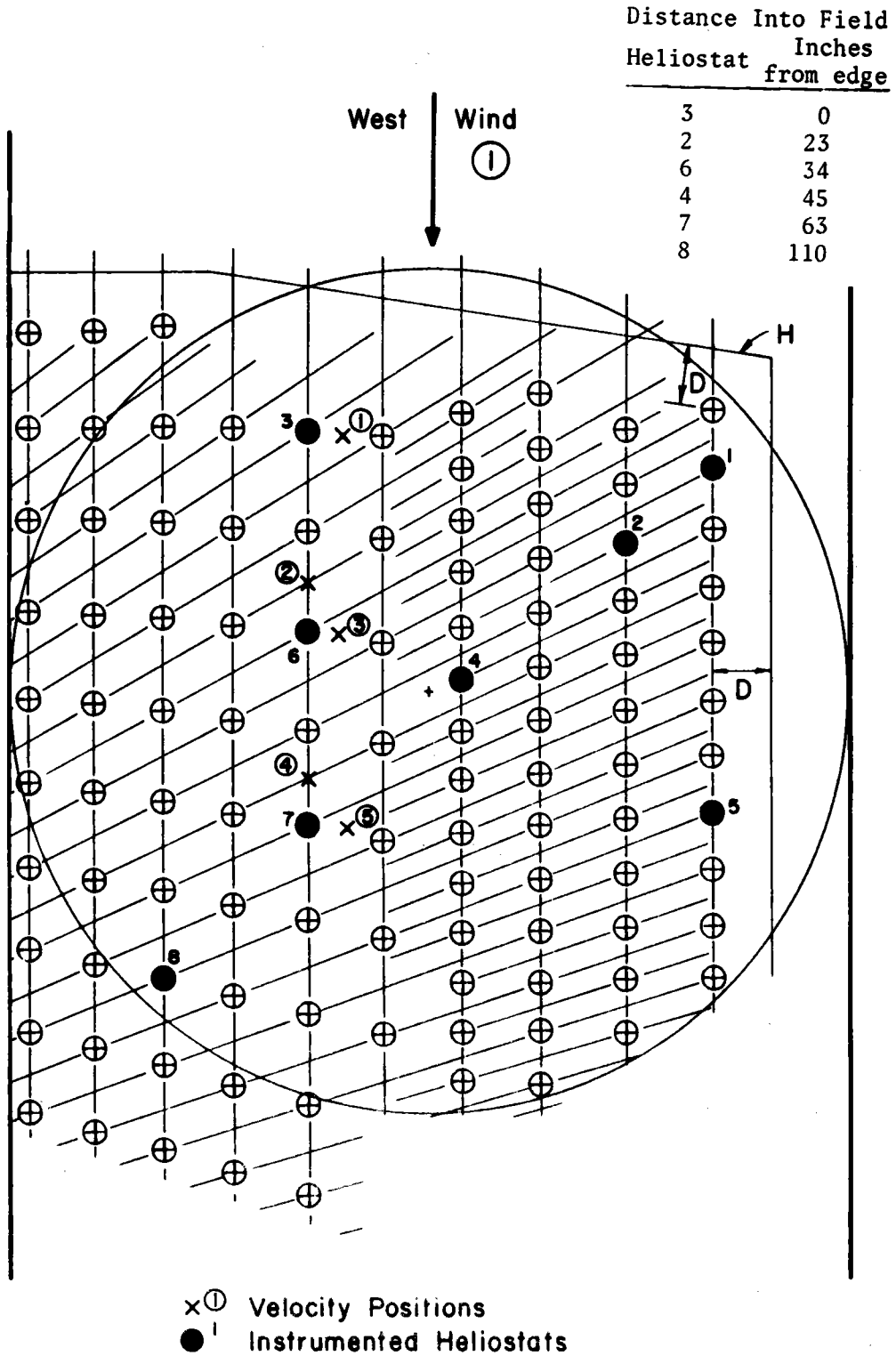


Figure 10a. Zone B, West Wind, Location Map.

Distance Into Field
Inches
Heliostat from edge

3	0
2	25
6	41
4	52
7	77
8	104

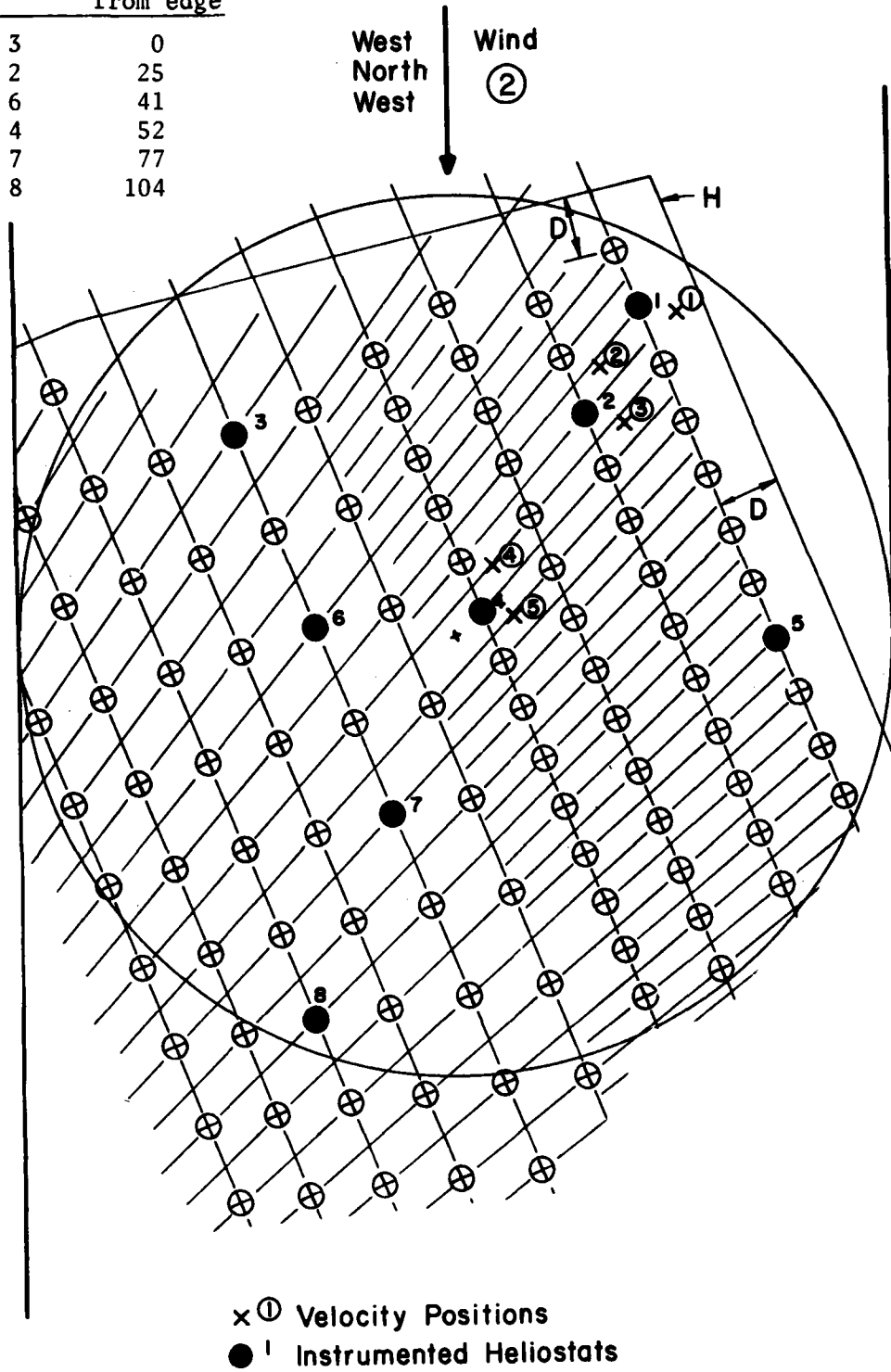
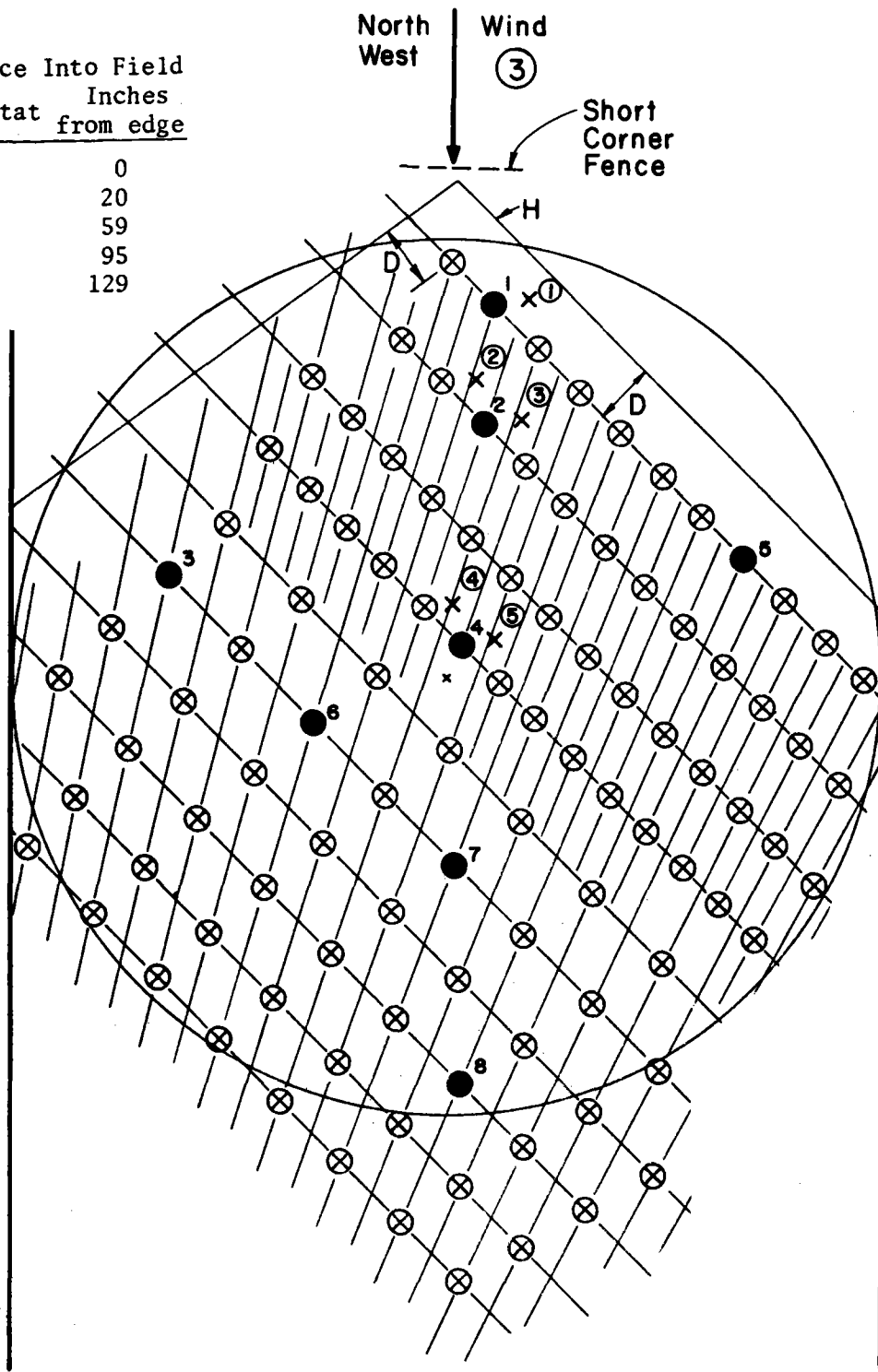


Figure 10b. Zone B, WNW Wind, Location Map.

Distance Into Field
Heliostat Inches
from edge

1	0
2	20
4	59
7	95
8	129



x① Velocity Positions
● 1 Instrumented Heliostats

Figure 10c. Zone B, NW Wind, Location Map.

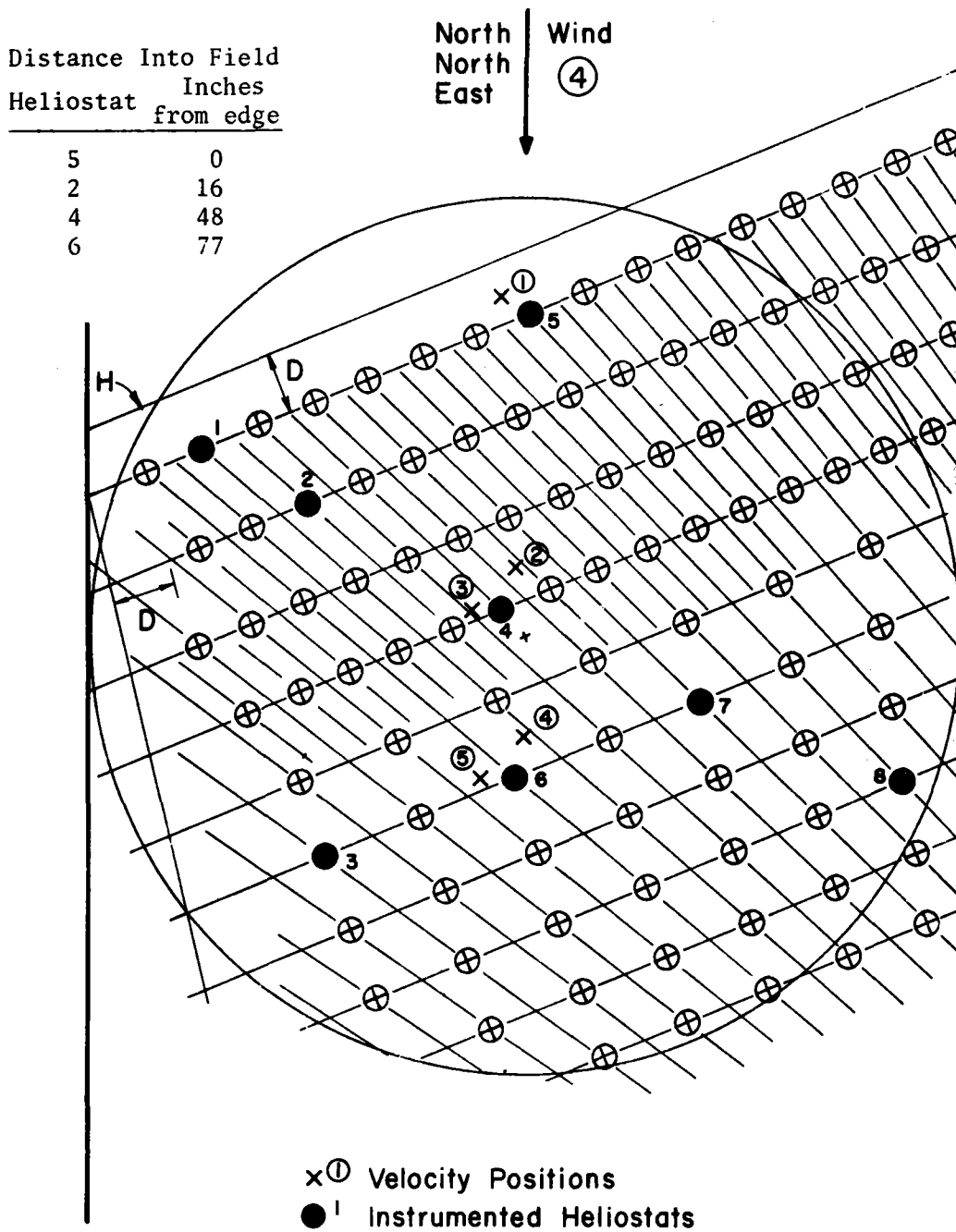


Figure 10d. Zone B, NNE Wind, Location Map.

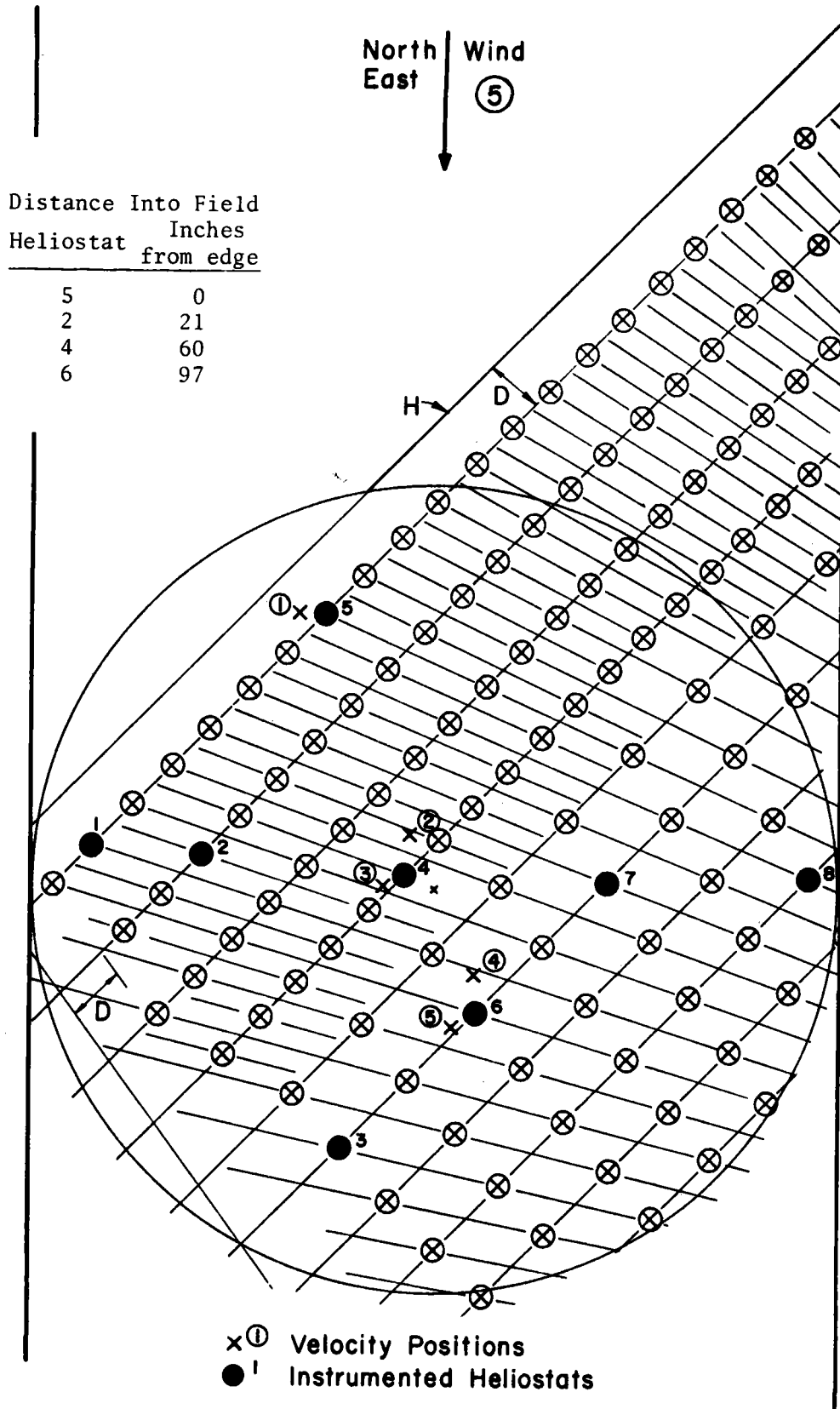


Figure 10e. Zone B, NE Wind, Location Map.

Distance Into Field
Heliostat Inches
from edge

5	0
2	15
4	43
6	69
8	94

North ↓ Wind
⑥

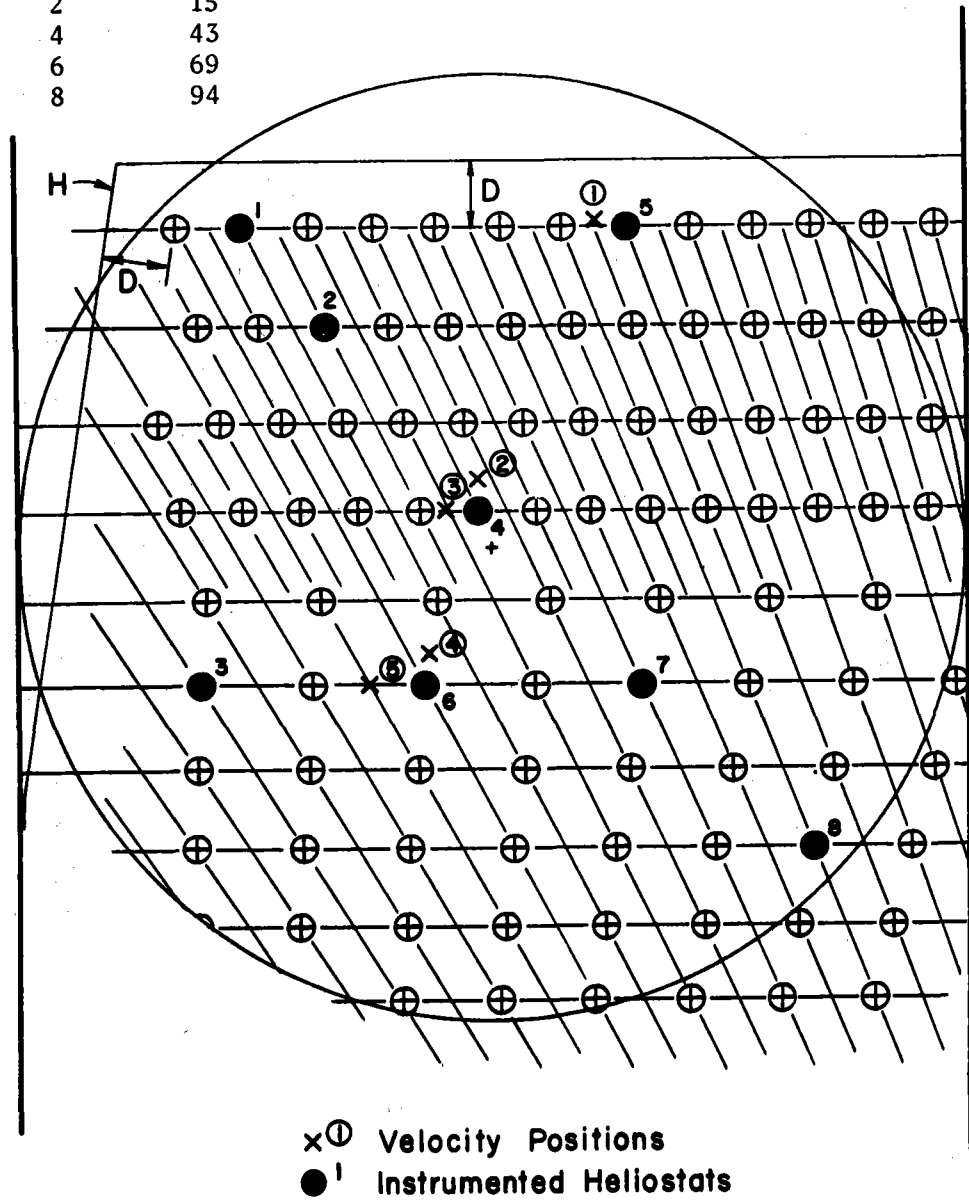


Figure 10f. Zone B, North Wind, Location Map.

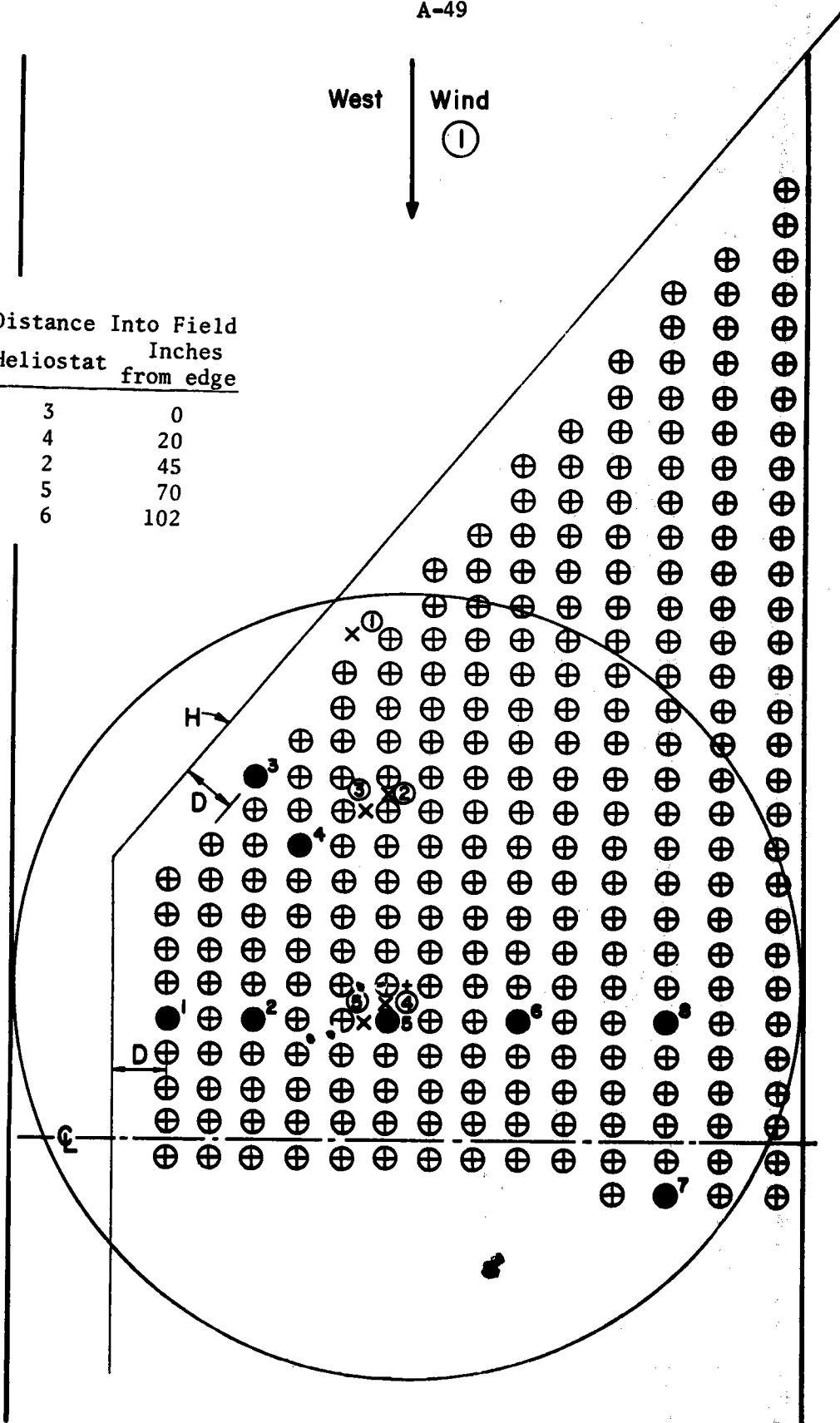
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West Wind



Distance Into Field
Heliostat Inches
from edge

3	0
4	20
2	45
5	70
6	102



- x⓪ Velocity Positions
- Instrumented Heliostats

Figure 10g. Zone A, West Wind, Location Map.

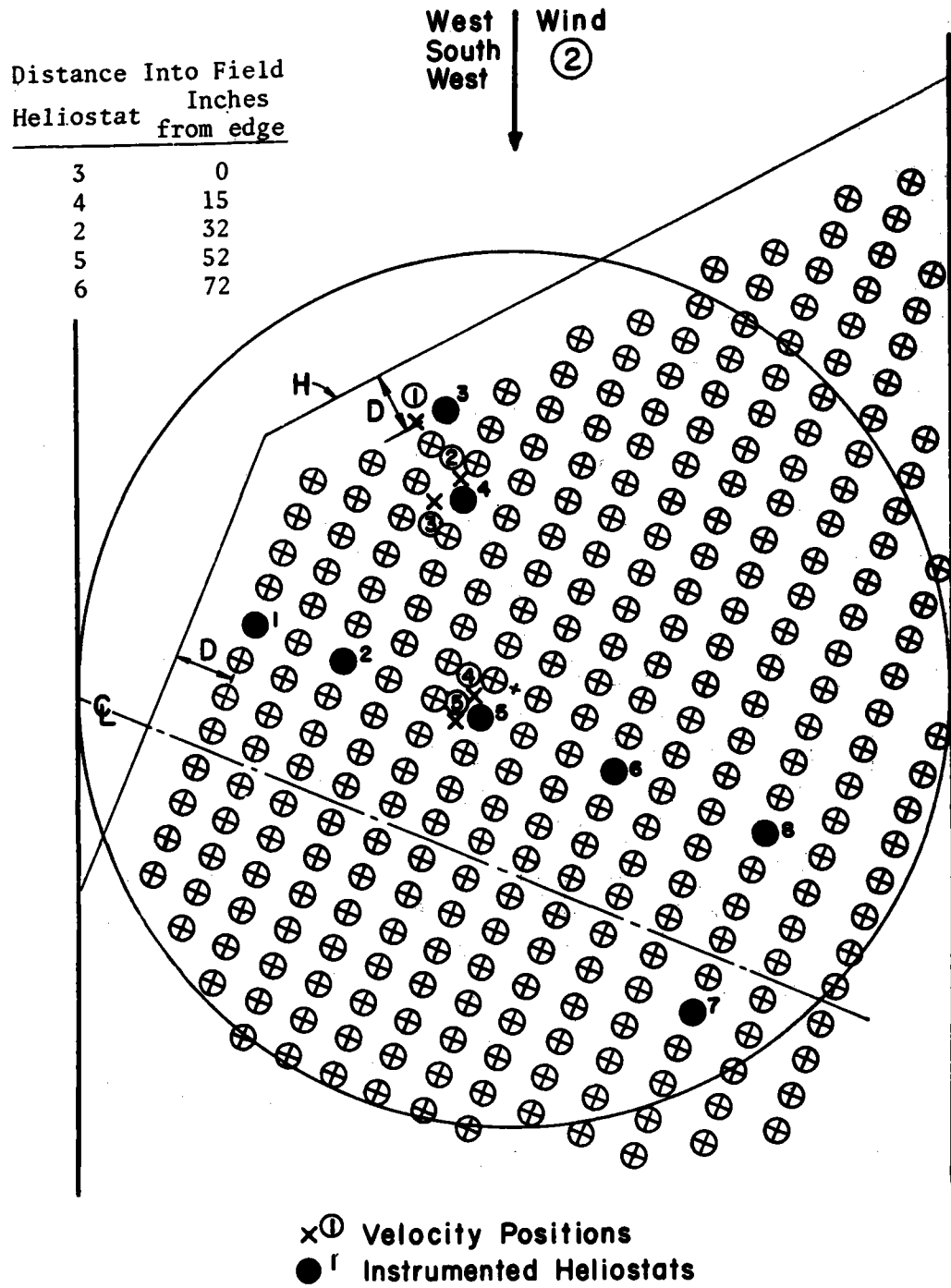


Figure 10h. Zone A, WSW Wind, Location Map.

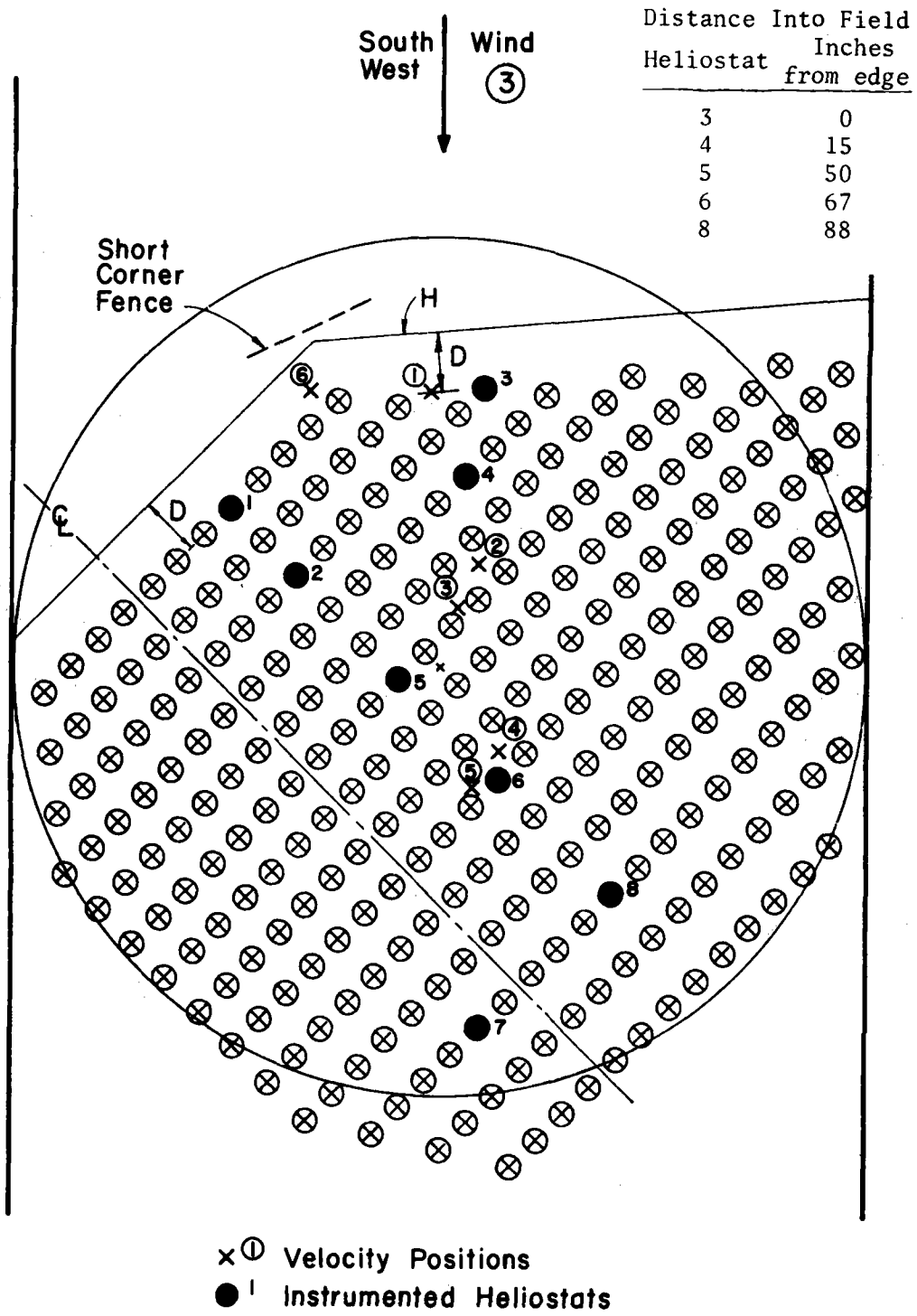


Figure 10i. Zone A, SW Wind, Location Map.

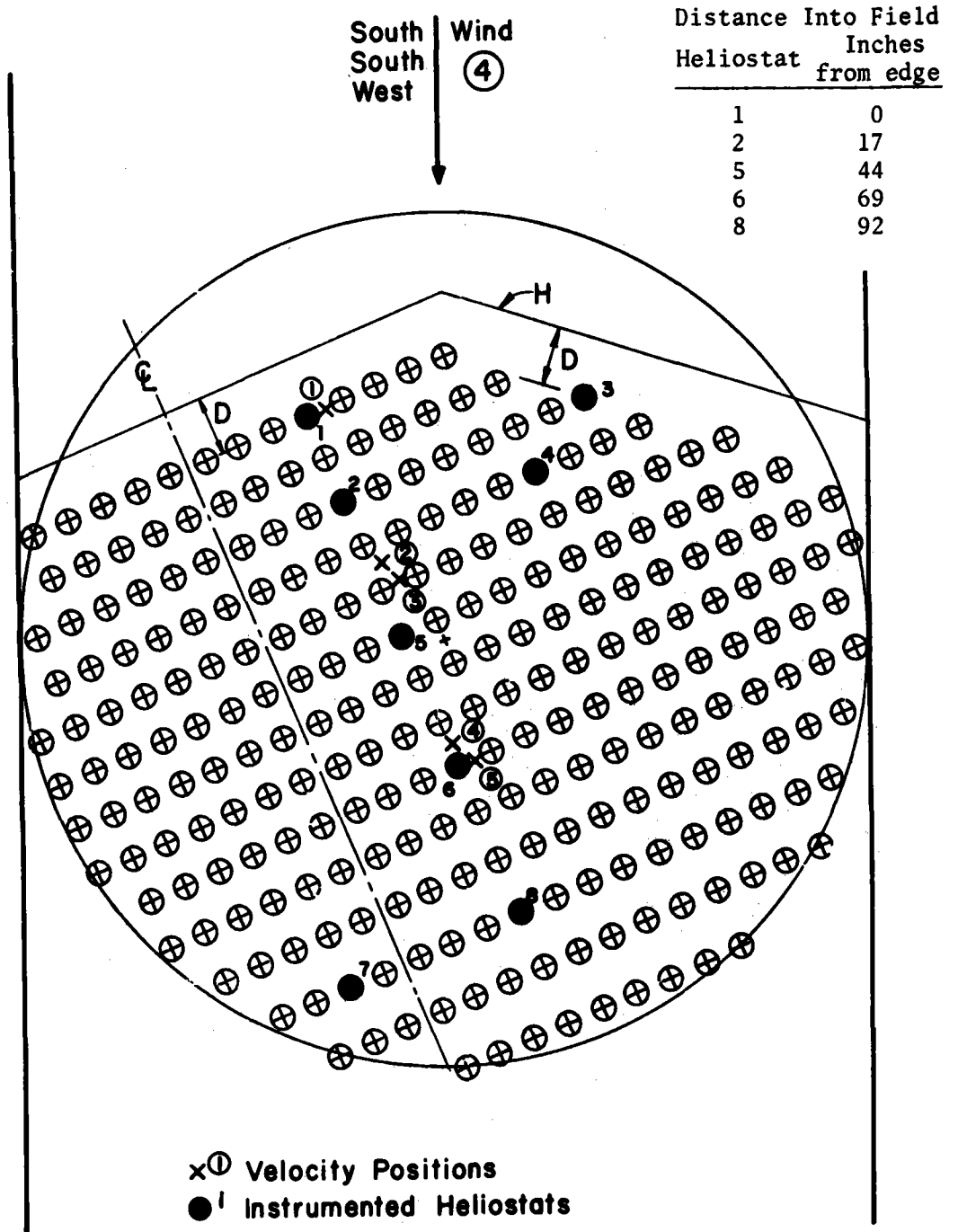
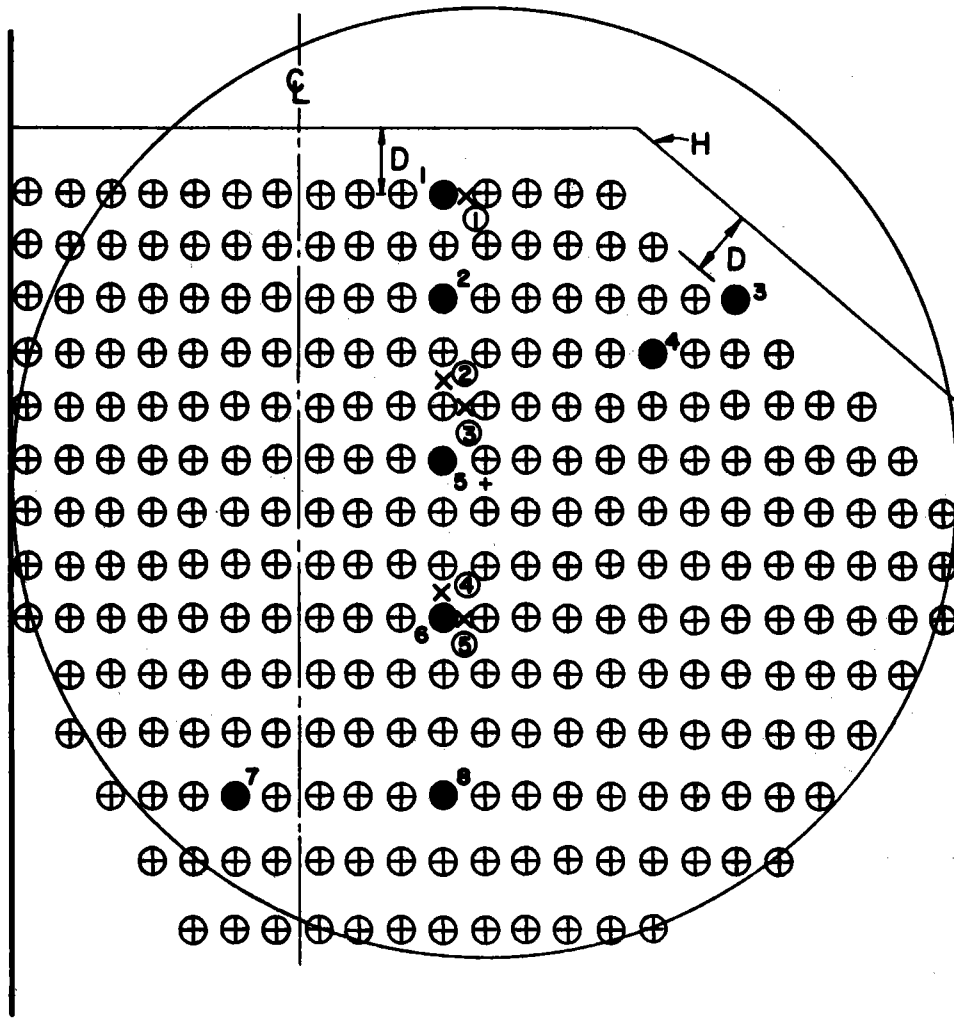


Figure 10j. Zone A, SSW Wind, Location Map.

Distance Into Field
Inches
Heliostat from edge

1	0
2	20
5	40
6	64
8	91

South Wind (5)



x① Velocity Positions
● Instrumented Heliostats

Figure 10k. Zone A, South Wind, Location Map.

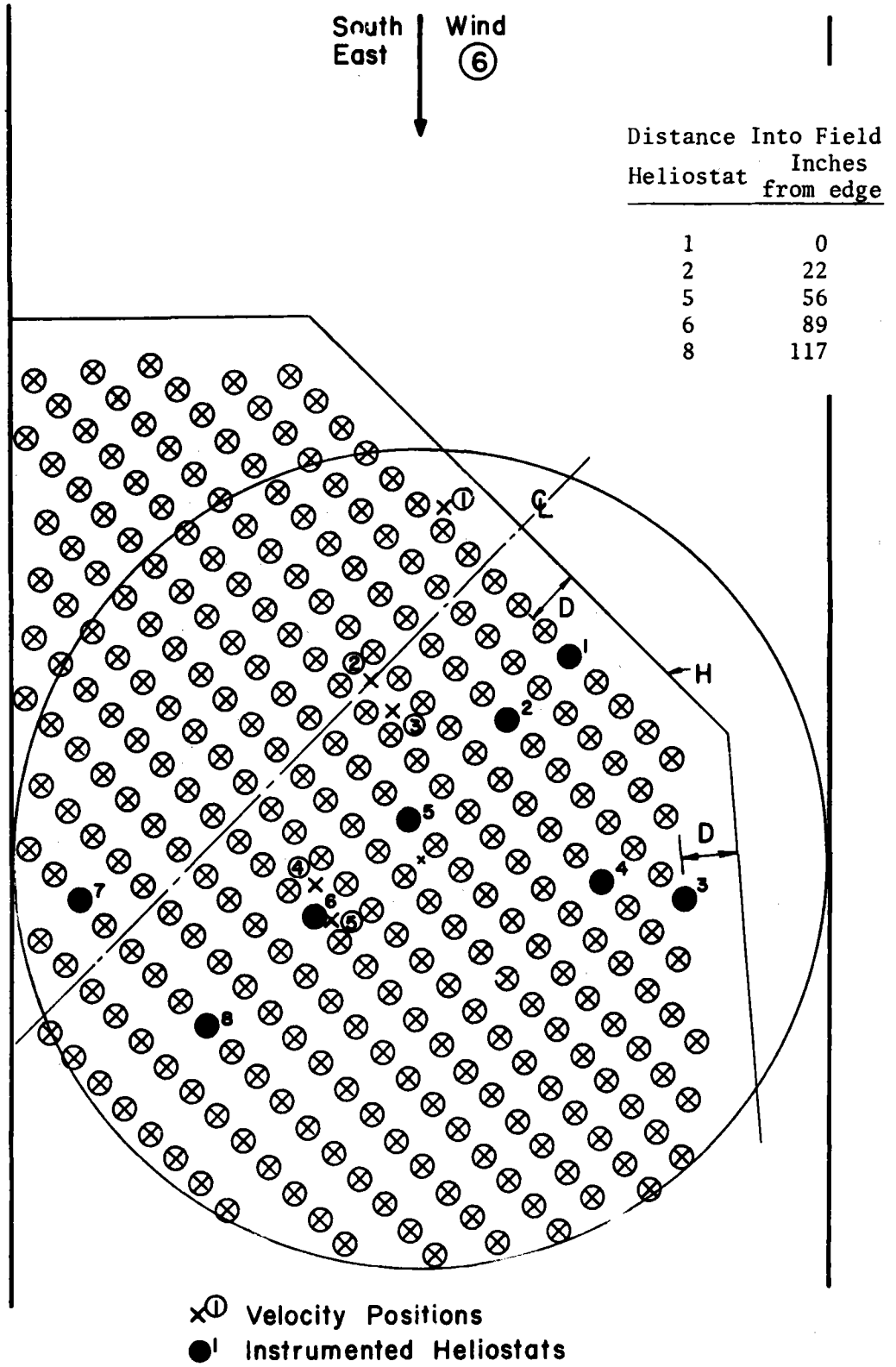


Figure 10l. Zone A, SE Wind, Location Map.

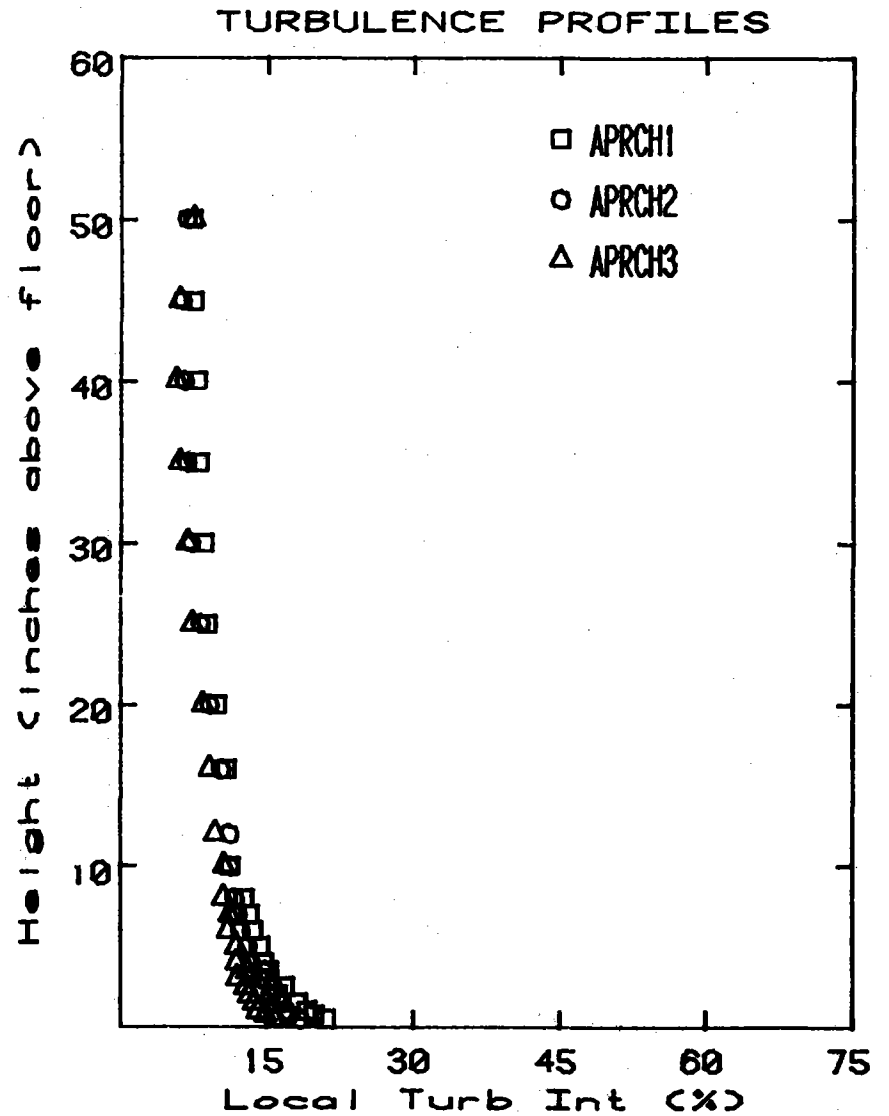
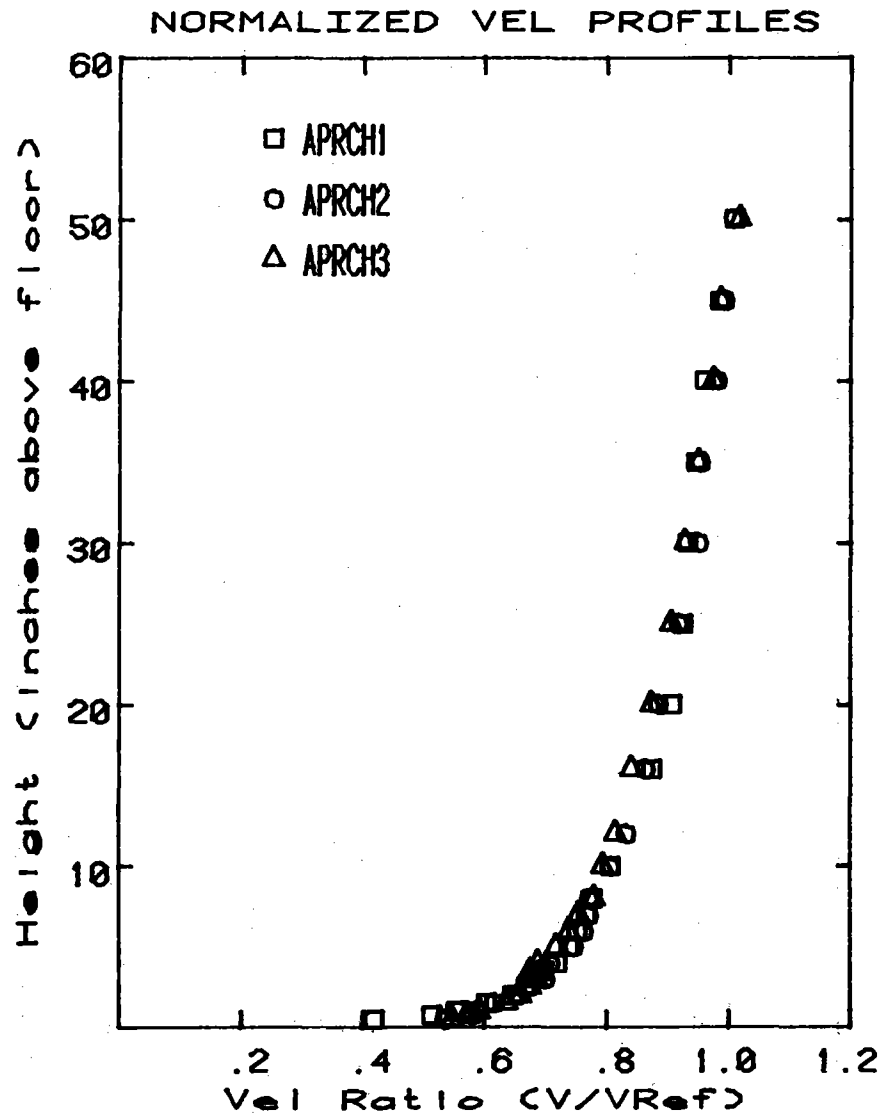


Figure 11 - Approach Velocity Profiles along Tunnel Axis

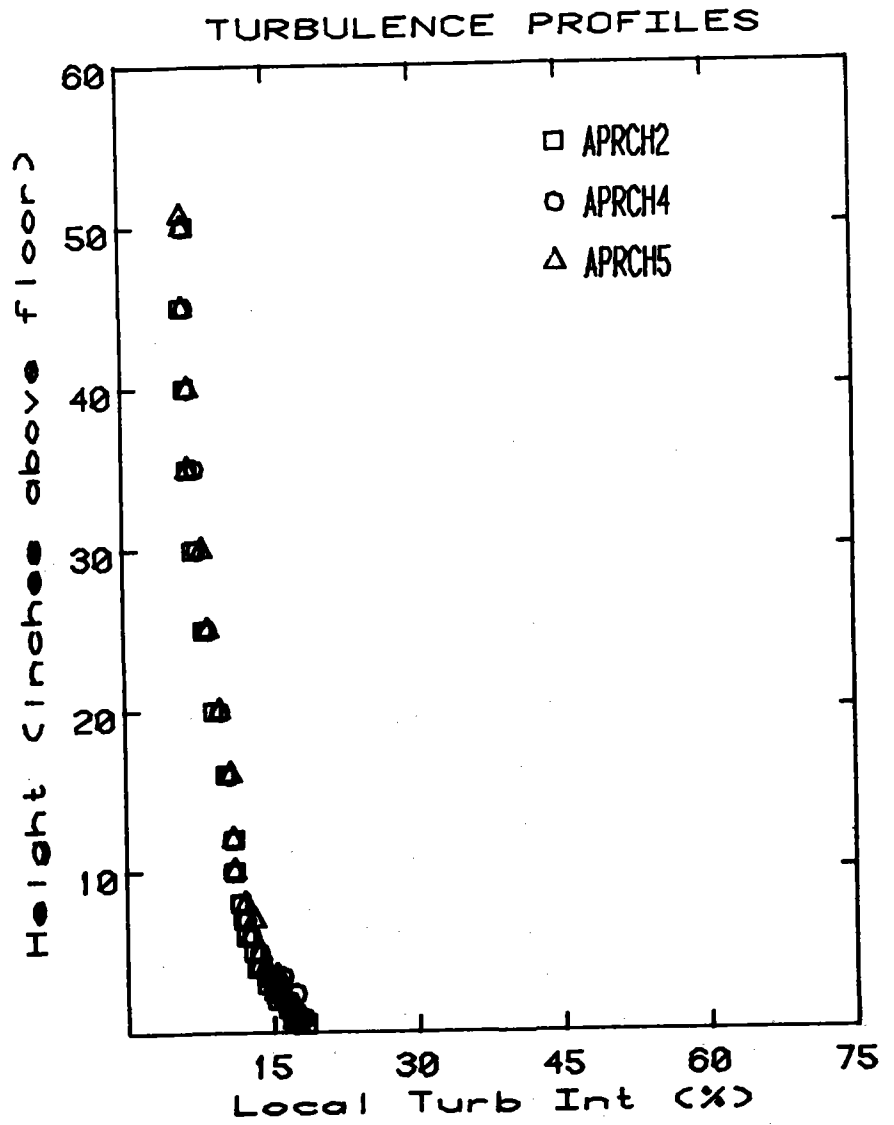
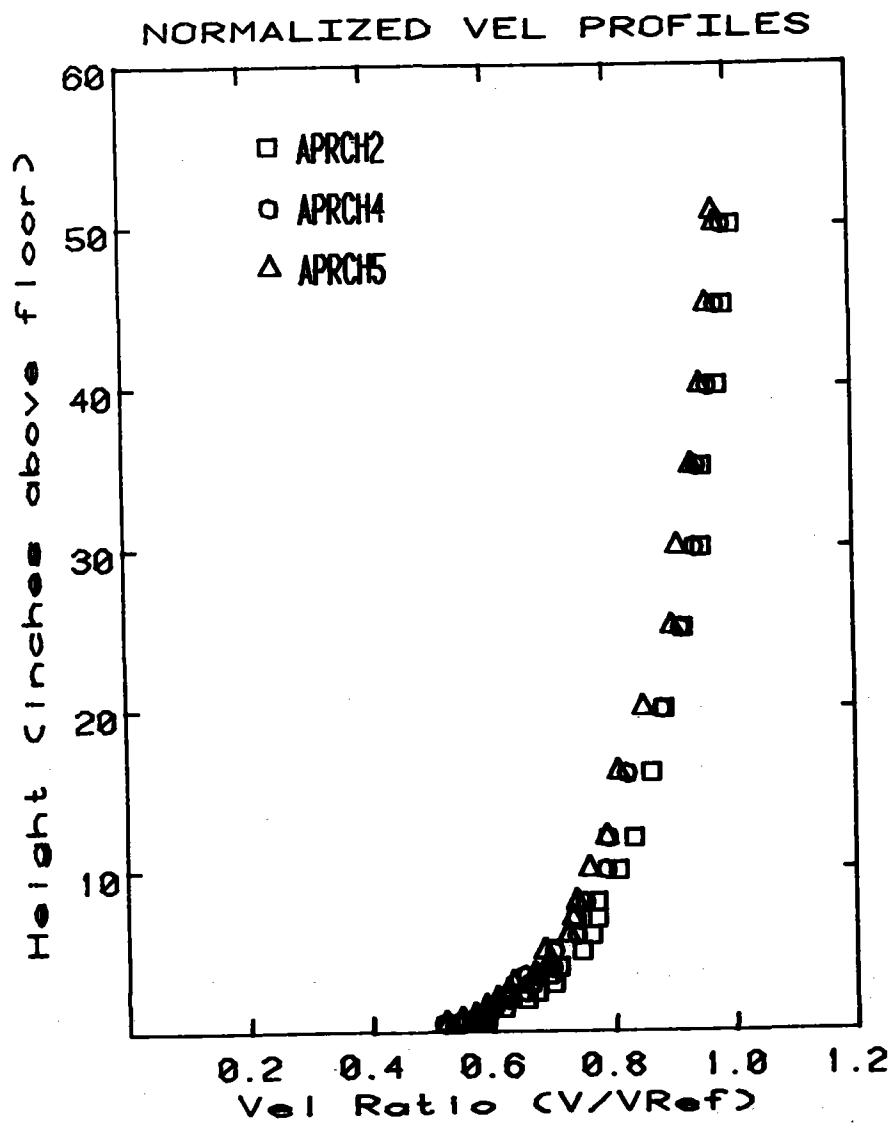


Figure 12 - Approach Velocity Profiles across Tunnel

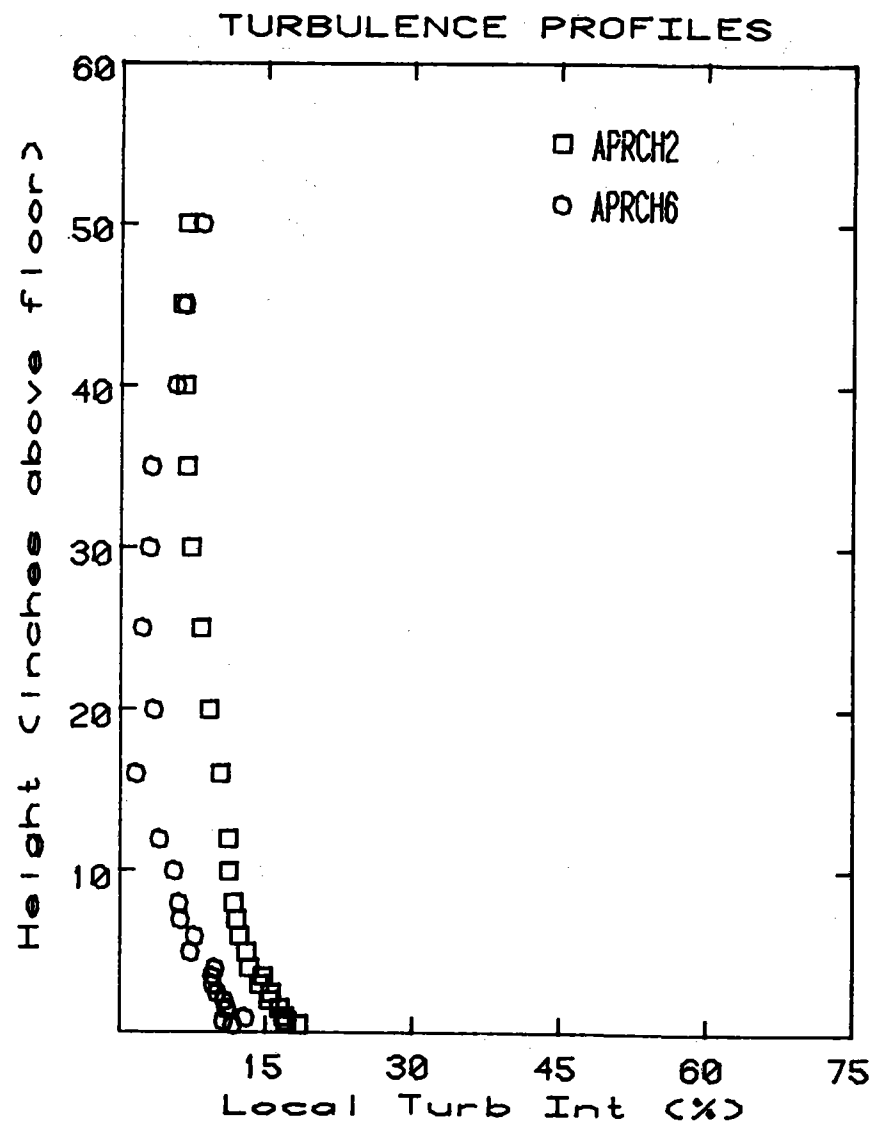
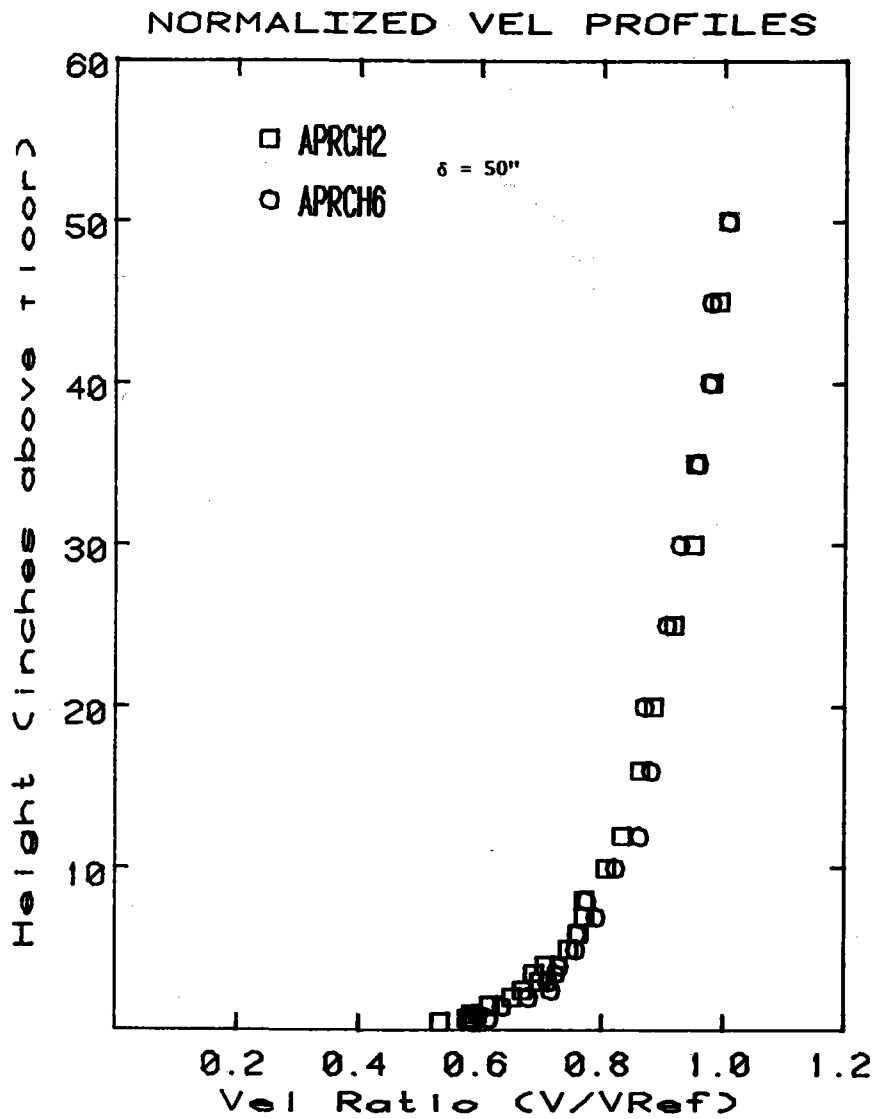


Figure 13 - Approach Velocity Profiles at Two Speeds

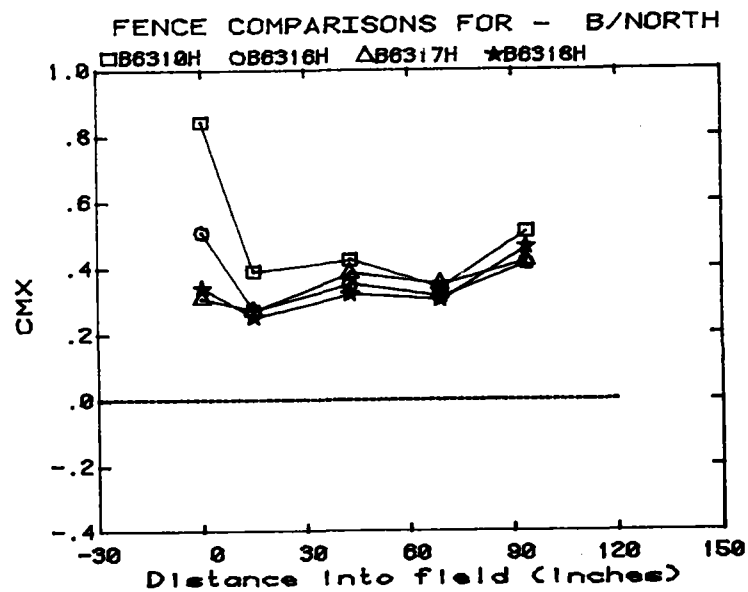
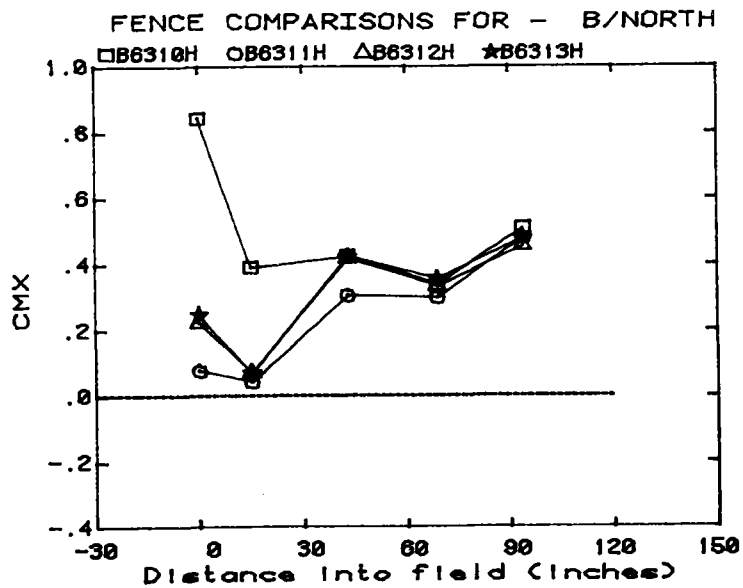
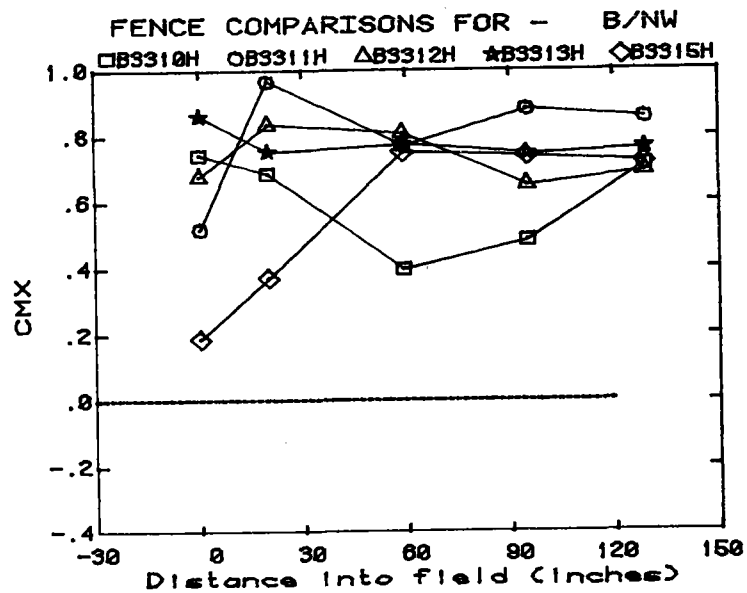
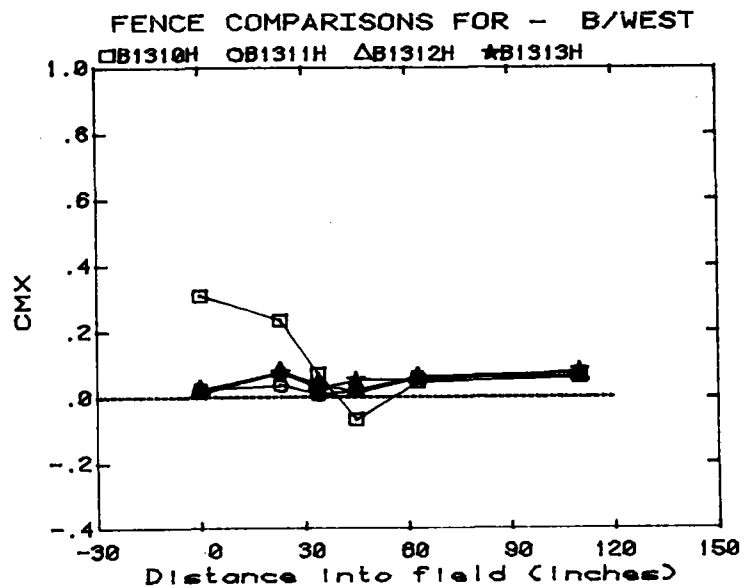


Figure 14 - CMX Fence Comparisons for Zone B

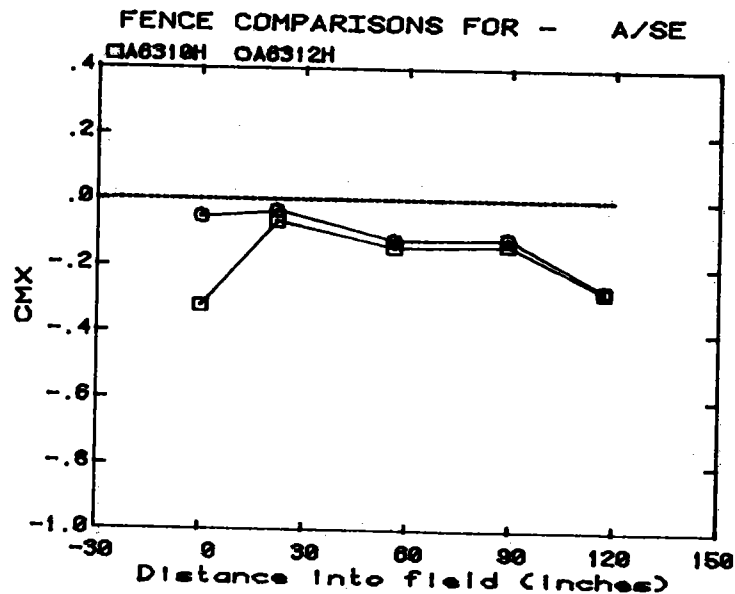
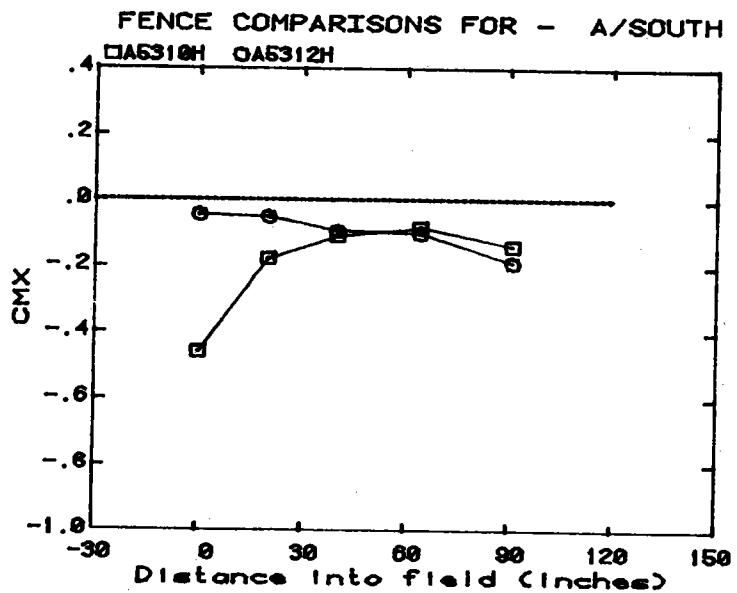
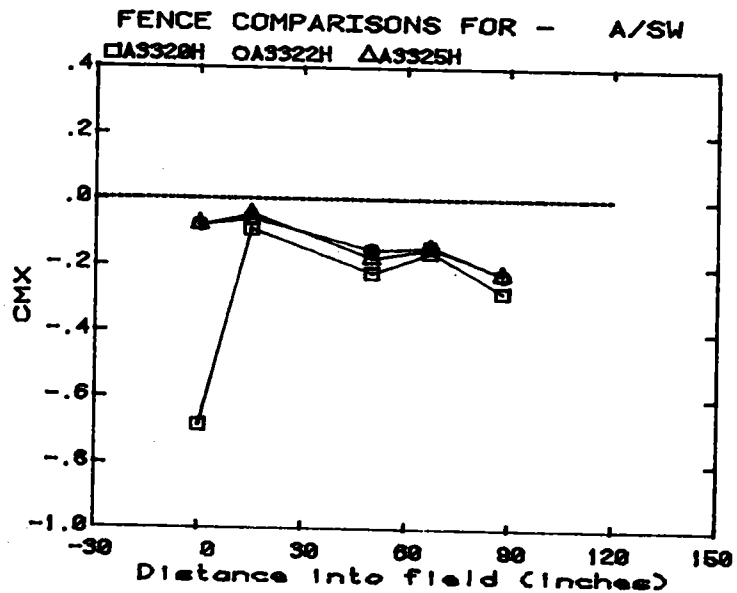
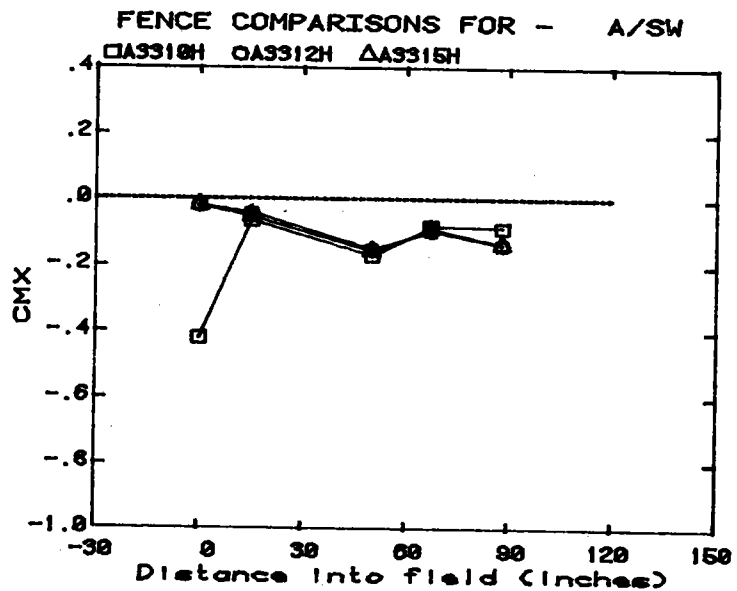
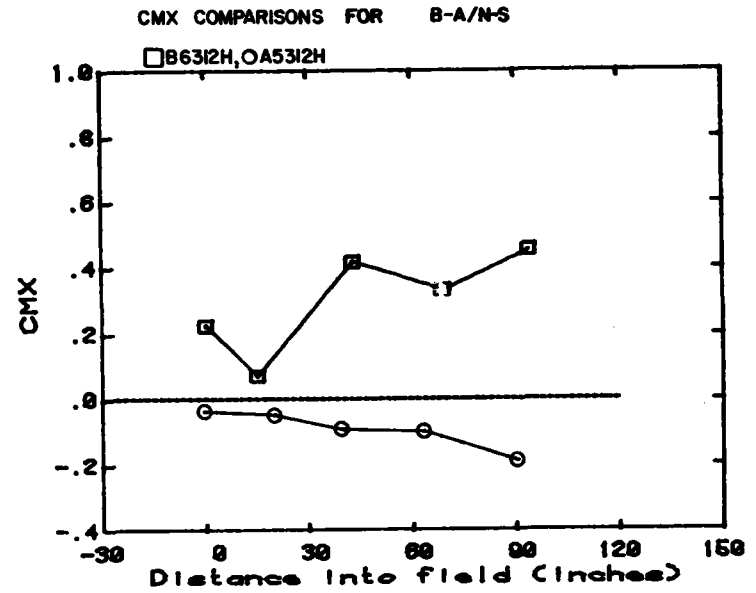
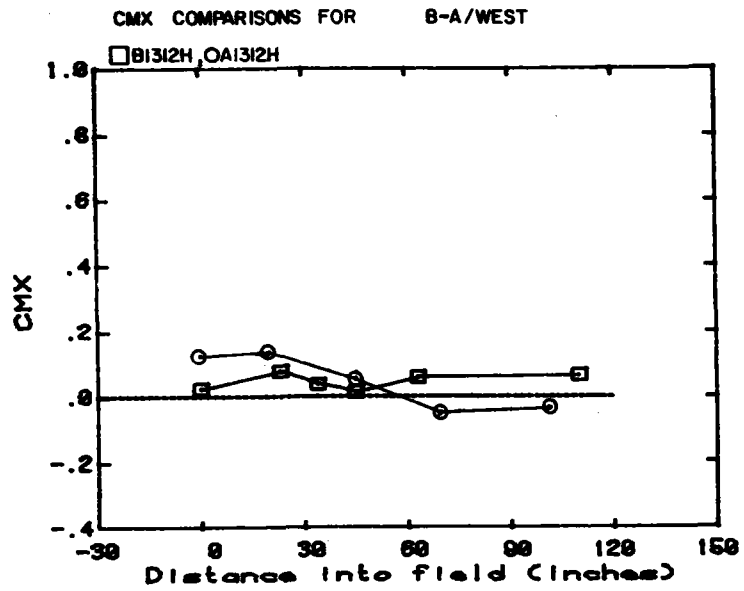


Figure 15 - CMX Fence Comparisons for Zone A



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Figure 16 - CMX Comparisons of Zone B to Zone A

APPENDIX A

Velocity Profile Data

Velocity Profile and Moment Data-File Name CodeFile Name = Z WD V TD FC PZ = Zone = A or BWD = Wind Direction;

<u>Zone A</u>		<u>WD</u>		<u>Zone B</u>
West	=	1	=	West
WSW	=	2	=	WNW
SW	=	3	=	NW
SSW	=	4	=	NNE
South	=	5	=	NE
SE	=	6	=	North

V = Nominal Free Stream Velocity

1 ~ 10 fps

2 ~ 20 fps

3 ~ 30 fps

TD = Time of Day (Heliostat Configuration)

1 = Noon

2 = 4:00 P.M.

3 = Stowed (alternating 87° and 93° pitch)

4 = Stowed' (all at 90° pitch)

All times-of-day are for local solar conditions on March 21.

FC = Fence Configuration (H and D; Figure 10)

0 = No Fence

1-H = 20 ft, D = 52 ft, 32% porosity

2-H = 15 ft, D = 52 ft, 32% porosity

3-H = 15 ft, D = 82 ft, 32% porosity

5-H = 15 ft, D = 52 ft + short corner fence,* 32% porosity

6-H = 10 ft, D = 52 ft, 32% porosity

7-H = 10 ft, D = 52 ft, plus H = 10, D = 102 ft, 32% porosity

8-H = 15 ft, D = 52 ft, 57% porosity

P = Position of Velocity Profiles

1 - 5 or 6 (see Figures 10a through 10d)

H = Instrumented Heliostat Moment Data File instead of a velocity profile

*short corner fence, H = 15 ft, 32% porosity, 120 ft long fence, placed 10 ft upstream of the regular fence at the upstream corner of the heliostat field (prototype dimensions).

NORMALIZED VELOCITY PROFILE APRCH1 REF. VEL. 30.2 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL
 TIME OF DAY = ALL POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1.00	.42	.09	21.90
2	1.10	.55	.10	21.90
3	1.11	.60	.11	21.90
4	1.11	.65	.11	21.90
5	1.11	.70	.10	21.90
6	1.11	.75	.10	21.90
7	1.11	.80	.11	21.90
8	1.11	.85	.11	21.90
9	1.11	.90	.11	21.90
10	1.11	.95	.11	21.90
11	1.11	1.00	.11	21.90
12	1.11	1.05	.11	21.90
13	1.11	1.10	.11	21.90
14	1.11	1.15	.11	21.90
15	1.11	1.20	.11	21.90
16	1.11	1.25	.11	21.90
17	1.11	1.30	.11	21.90
18	1.11	1.35	.11	21.90
19	1.11	1.40	.11	21.90
20	1.11	1.45	.11	21.90
21	1.11	1.50	.11	21.90
22	1.11	1.55	.11	21.90
23	1.11	1.60	.11	21.90
24	1.11	1.65	.11	21.90
25	1.11	1.70	.11	21.90
26	1.11	1.75	.11	21.90
27	1.11	1.80	.11	21.90
28	1.11	1.85	.11	21.90
29	1.11	1.90	.11	21.90
30	1.11	1.95	.11	21.90
31	1.11	2.00	.11	21.90
32	1.11	2.05	.11	21.90
33	1.11	2.10	.11	21.90
34	1.11	2.15	.11	21.90
35	1.11	2.20	.11	21.90
36	1.11	2.25	.11	21.90
37	1.11	2.30	.11	21.90
38	1.11	2.35	.11	21.90
39	1.11	2.40	.11	21.90
40	1.11	2.45	.11	21.90
41	1.11	2.50	.11	21.90
42	1.11	2.55	.11	21.90
43	1.11	2.60	.11	21.90
44	1.11	2.65	.11	21.90
45	1.11	2.70	.11	21.90
46	1.11	2.75	.11	21.90
47	1.11	2.80	.11	21.90
48	1.11	2.85	.11	21.90
49	1.11	2.90	.11	21.90
50	1.11	2.95	.11	21.90
51	1.11	3.00	.11	21.90
52	1.11	3.05	.11	21.90
53	1.11	3.10	.11	21.90
54	1.11	3.15	.11	21.90
55	1.11	3.20	.11	21.90
56	1.11	3.25	.11	21.90
57	1.11	3.30	.11	21.90
58	1.11	3.35	.11	21.90
59	1.11	3.40	.11	21.90
60	1.11	3.45	.11	21.90
61	1.11	3.50	.11	21.90
62	1.11	3.55	.11	21.90
63	1.11	3.60	.11	21.90
64	1.11	3.65	.11	21.90
65	1.11	3.70	.11	21.90
66	1.11	3.75	.11	21.90
67	1.11	3.80	.11	21.90
68	1.11	3.85	.11	21.90
69	1.11	3.90	.11	21.90
70	1.11	3.95	.11	21.90
71	1.11	4.00	.11	21.90
72	1.11	4.05	.11	21.90
73	1.11	4.10	.11	21.90
74	1.11	4.15	.11	21.90
75	1.11	4.20	.11	21.90
76	1.11	4.25	.11	21.90
77	1.11	4.30	.11	21.90
78	1.11	4.35	.11	21.90
79	1.11	4.40	.11	21.90
80	1.11	4.45	.11	21.90
81	1.11	4.50	.11	21.90
82	1.11	4.55	.11	21.90
83	1.11	4.60	.11	21.90
84	1.11	4.65	.11	21.90
85	1.11	4.70	.11	21.90
86	1.11	4.75	.11	21.90
87	1.11	4.80	.11	21.90
88	1.11	4.85	.11	21.90
89	1.11	4.90	.11	21.90
90	1.11	4.95	.11	21.90
91	1.11	5.00	.11	21.90
92	1.11	5.05	.11	21.90
93	1.11	5.10	.11	21.90
94	1.11	5.15	.11	21.90
95	1.11	5.20	.11	21.90
96	1.11	5.25	.11	21.90
97	1.11	5.30	.11	21.90
98	1.11	5.35	.11	21.90
99	1.11	5.40	.11	21.90
100	1.11	5.45	.11	21.90
101	1.11	5.50	.11	21.90
102	1.11	5.55	.11	21.90
103	1.11	5.60	.11	21.90
104	1.11	5.65	.11	21.90
105	1.11	5.70	.11	21.90
106	1.11	5.75	.11	21.90
107	1.11	5.80	.11	21.90
108	1.11	5.85	.11	21.90
109	1.11	5.90	.11	21.90
110	1.11	5.95	.11	21.90
111	1.11	6.00	.11	21.90
112	1.11	6.05	.11	21.90
113	1.11	6.10	.11	21.90
114	1.11	6.15	.11	21.90
115	1.11	6.20	.11	21.90
116	1.11	6.25	.11	21.90
117	1.11	6.30	.11	21.90
118	1.11	6.35	.11	21.90
119	1.11	6.40	.11	21.90
120	1.11	6.45	.11	21.90
121	1.11	6.50	.11	21.90
122	1.11	6.55	.11	21.90
123	1.11	6.60	.11	21.90
124	1.11	6.65	.11	21.90
125	1.11	6.70	.11	21.90
126	1.11	6.75	.11	21.90
127	1.11	6.80	.11	21.90
128	1.11	6.85	.11	21.90
129	1.11	6.90	.11	21.90
130	1.11	6.95	.11	21.90
131	1.11	7.00	.11	21.90
132	1.11	7.05	.11	21.90
133	1.11	7.10	.11	21.90
134	1.11	7.15	.11	21.90
135	1.11	7.20	.11	21.90
136	1.11	7.25	.11	21.90
137	1.11	7.30	.11	21.90
138	1.11	7.35	.11	21.90
139	1.11	7.40	.11	21.90
140	1.11	7.45	.11	21.90
141	1.11	7.50	.11	21.90
142	1.11	7.55	.11	21.90
143	1.11	7.60	.11	21.90
144	1.11	7.65	.11	21.90
145	1.11	7.70	.11	21.90
146	1.11	7.75	.11	21.90
147	1.11	7.80	.11	21.90
148	1.11	7.85	.11	21.90
149	1.11	7.90	.11	21.90
150	1.11	7.95	.11	21.90
151	1.11	8.00	.11	21.90
152	1.11	8.05	.11	21.90
153	1.11	8.10	.11	21.90
154	1.11	8.15	.11	21.90
155	1.11	8.20	.11	21.90
156	1.11	8.25	.11	21.90
157	1.11	8.30	.11	21.90
158	1.11	8.35	.11	21.90
159	1.11	8.40	.11	21.90
160	1.11	8.45	.11	21.90
161	1.11	8.50	.11	21.90
162	1.11	8.55	.11	21.90
163	1.11	8.60	.11	21.90
164	1.11	8.65	.11	21.90
165	1.11	8.70	.11	21.90
166	1.11	8.75	.11	21.90
167	1.11	8.80	.11	21.90
168	1.11	8.85	.11	21.90
169	1.11	8.90	.11	21.90
170	1.11	8.95	.11	21.90
171	1.11	9.00	.11	21.90
172	1.11	9.05	.11	21.90
173	1.11	9.10	.11	21.90
174	1.11	9.15	.11	21.90
175	1.11	9.20	.11	21.90
176	1.11	9.25	.11	21.90
177	1.11	9.30	.11	21.90
178	1.11	9.35	.11	21.90
179	1.11	9.40	.11	21.90
180	1.11	9.45	.11	21.90
181	1.11	9.50	.11	21.90
182	1.11	9.55	.11	21.90
183	1.11	9.60	.11	21.90
184	1.11	9.65	.11	21.90
185	1.11	9.70	.11	21.90
186	1.11	9.75	.11	21.90
187	1.11	9.80	.11	21.90
188	1.11	9.85	.11	21.90
189	1.11	9.90	.11	21.90
190	1.11	9.95	.11	21.90
191	1.11	10.00	.11	21.90
192	1.11	10.05	.11	21.90
193	1.11	10.10	.11	21.90
194	1.11	10.15	.11	21.90
195	1.11	10.20	.11	21.90
196	1.11	10.25	.11	21.90
197	1.11	10.30	.11	21.90
198	1.11	10.35	.11	21.90
199	1.11	10.40	.11	21.90
200	1.11	10.45	.11	21.90
201	1.11	10.50	.11	21.90
202	1.11	10.55	.11	21.90
203	1.11	10.60	.11	21.90
204	1.11	10.65	.11	21.90
205	1.11	10.70	.11	21.90
206	1.11	10.75	.11	21.90
207	1.11	10.80	.11	21.90
208	1.11	10.85	.11	21.90
209	1.11	10.90	.11	21.90
210	1.11	10.95	.11	21.90
211	1.11	11.00	.11	21.90
212	1.11	11.05	.11	21.90
213	1.11	11.10	.11	21.90
214	1.11	11.15	.11	21.90
215	1.11	11.20	.11	21.90
216	1.11	11.25	.11	21.90
217	1.11	11.30	.11	21.90
218	1.11	11.35	.11	21.90
219	1.11	11.40	.11	21.90
220	1.11	11.45	.11	21.90
221	1.11	11.50	.11	21.90
222	1.11	11.55	.11	21.90
223	1.11	11.60	.11	21.90
224	1.11	11.65	.11	21.90
225	1.11	11.70	.11	21.90
226	1.11	11.75	.11	21.90
227	1.11	11.80	.11	21.90
228	1.11	11.85	.11	21.90
229	1.11	11.90	.11	21.90
230	1.11	11.95	.11	21.90
231	1.11	12.00	.11	21.90
232	1.11	12.05	.11	21.90
233	1.11	12.10	.11	21.90
234	1.11	12.15	.11	21.90
235	1.11	12.20	.11	21.90
236	1.11	12.25	.11	21.90
237	1.11	12.30	.11	21.90
238	1.11	12.35	.11	21.90
239	1.11	12.40	.11	21.90
240	1.11	12.45	.11	21.90
241	1.11	12.50	.11	21.90
242	1.11	12.55	.11	21.90
243	1.11	12.60	.11	21.90
244	1.11	12.65	.11	21.90
245	1.11	12.70	.11	21.90
246	1.11	12.75	.11	21.90
247	1.11	12.80	.11	21.90
248	1.11	12.85	.11	21.90
249	1.11	12.90	.11	21.90
250	1.11	12.95	.11	21.90
251	1.11	13.00	.11	21.90
252	1.11	13.05	.11	21.90
253	1.11	13.10	.11	21.90
254	1.11	13.15	.11	21.90
2				

NORMALIZED VELOCITY PROFILE APRCH5 REF VEL. 30.0 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL
 TIME OF DAY = ALL POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	10	.09	.09	17.4
2	10	.09	.09	17.7
3	10	.10	.10	18.0
4	10	.10	.10	18.3
5	10	.09	.09	18.6
6	10	.10	.10	18.9
7	10	.10	.10	19.2
8	10	.09	.09	19.5
9	10	.10	.10	19.8
10	10	.09	.09	20.1
11	10	.09	.09	20.4
12	10	.09	.09	20.7
13	10	.09	.09	21.0
14	10	.09	.09	21.3
15	10	.09	.09	21.6
16	10	.09	.09	21.9
17	10	.09	.09	22.2
18	10	.09	.09	22.5
19	10	.09	.09	22.8
20	10	.09	.09	23.1
21	10	.09	.09	23.4
22	10	.09	.09	23.7
23	10	.09	.09	24.0
24	10	.09	.09	24.3
25	10	.09	.09	24.6
26	10	.09	.09	24.9
27	10	.09	.09	25.2
28	10	.09	.09	25.5
29	10	.09	.09	25.8
30	10	.09	.09	26.1
31	10	.09	.09	26.4
32	10	.09	.09	26.7
33	10	.09	.09	27.0
34	10	.09	.09	27.3
35	10	.09	.09	27.6
36	10	.09	.09	27.9
37	10	.09	.09	28.2
38	10	.09	.09	28.5
39	10	.09	.09	28.8
40	10	.09	.09	29.1
41	10	.09	.09	29.4
42	10	.09	.09	29.7
43	10	.09	.09	30.0
44	10	.09	.09	30.3
45	10	.09	.09	30.6
46	10	.09	.09	30.9
47	10	.09	.09	31.2
48	10	.09	.09	31.5
49	10	.09	.09	31.8
50	10	.09	.09	32.1
51	10	.09	.09	32.4
52	10	.09	.09	32.7
53	10	.09	.09	33.0
54	10	.09	.09	33.3
55	10	.09	.09	33.6
56	10	.09	.09	33.9
57	10	.09	.09	34.2
58	10	.09	.09	34.5
59	10	.09	.09	34.8
60	10	.09	.09	35.1
61	10	.09	.09	35.4
62	10	.09	.09	35.7
63	10	.09	.09	36.0
64	10	.09	.09	36.3
65	10	.09	.09	36.6
66	10	.09	.09	36.9
67	10	.09	.09	37.2
68	10	.09	.09	37.5
69	10	.09	.09	37.8
70	10	.09	.09	38.1
71	10	.09	.09	38.4
72	10	.09	.09	38.7
73	10	.09	.09	39.0
74	10	.09	.09	39.3
75	10	.09	.09	39.6
76	10	.09	.09	39.9
77	10	.09	.09	40.2
78	10	.09	.09	40.5
79	10	.09	.09	40.8
80	10	.09	.09	41.1
81	10	.09	.09	41.4
82	10	.09	.09	41.7
83	10	.09	.09	42.0
84	10	.09	.09	42.3
85	10	.09	.09	42.6
86	10	.09	.09	42.9
87	10	.09	.09	43.2
88	10	.09	.09	43.5
89	10	.09	.09	43.8
90	10	.09	.09	44.1
91	10	.09	.09	44.4
92	10	.09	.09	44.7
93	10	.09	.09	45.0
94	10	.09	.09	45.3
95	10	.09	.09	45.6
96	10	.09	.09	45.9
97	10	.09	.09	46.2
98	10	.09	.09	46.5
99	10	.09	.09	46.8
100	10	.09	.09	47.1

NORMALIZED VELOCITY PROFILE APRCH6 REF. VEL. 9.1 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL
 TIME OF DAY = ALL POSITION OF PROFILE = 6
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	30	.59	.07	11.7
2	73	.61	.07	12.0
3	100	.64	.07	12.3
4	149	.68	.07	12.6
5	200	.71	.07	12.9
6	251	.72	.07	13.2
7	300	.73	.07	13.5
8	350	.76	.07	13.8
9	400	.76	.07	14.1
10	450	.77	.07	14.4
11	500	.77	.07	14.7
12	550	.79	.07	15.0
13	600	.82	.07	15.3
14	650	.86	.07	15.6
15	700	.88	.07	15.9
16	750	.87	.07	16.2
17	800	.87	.07	16.5
18	850	.90	.07	16.8
19	900	.93	.07	17.1
20	950	.96	.07	17.4
21	1000	.97	.07	17.7
22	1050	.98	.07	18.0
23	1100	.98	.07	18.3
24	1150	1.00	.07	18.6
25	1200	1.00	.07	18.9
26	1250	1.00	.07	19.2
27	1300	1.00	.07	19.5
28	1350	1.00	.07	19.8
29	1400	1.00	.07	20.1
30	1450	1.00	.07	20.4
31	1500	1.00	.07	20.7
32	1550	1.00	.07	21.0
33	1600	1.00	.07	21.3
34	1650	1.00	.07	21.6
35	1700	1.00	.07	21.9
36	1750	1.00	.07	22.2
37	1800	1.00	.07	22.5
38	1850	1.00	.07	22.8
39	1900	1.00	.07	23.1
40	1950	1.00	.07	23.4
41	2000	1.00	.07	23.7
42	2050	1.00	.07	24.0
43	2100	1.00	.07	24.3
44	2150	1.00	.07	24.6
45	2200	1.00	.07	24.9
46	2250	1.00	.07	25.2
47	2300	1.00	.07	25.5
48	2350	1.00	.07	25.8
49	2400	1.00	.07	26.1
50	2450	1.00	.07	26.4
51	2500	1.00	.07	26.7
52	2550	1.00	.07	27.0
53	2600	1.00	.07	27.3
54	2650	1.00	.07	27.6
55	2700	1.00	.07	27.9
56	2750	1.00	.07	28.2
57	2800	1.00	.07	28.5
58	2850	1.00	.07	28.8
59	2900	1.00	.07	29.1
60	2950	1.00	.07	29.4
61	3000	1.00	.07	29.7
62	3050	1.00	.07	30.0
63	3100	1.00	.07	30.3
64	3150	1.00	.07	30.6
65	3200	1.00	.07	30.9
66	3250	1.00	.07	31.2
67	3300	1.00	.07	31.5
68	3350	1.00	.07	31.8
69	3400	1.00	.07	32.1
70	3450	1.00	.07	32.4
71	3500	1.00	.07	32.7
72	3550	1.00	.07	33.0
73	3600	1.00	.07	33.3
74	3650	1.00	.07	33.6
75	3700	1.00	.07	33.9
76	3750	1.00	.07	34.2
77	3800	1.00	.07	34.5
78	3850	1.00	.07	34.8
79	3900	1.00	.07	35.1
80	3950	1.00	.07	35.4
81	4000	1.00	.07	35.7
82	4050	1.00	.07	36.0
83	4100	1.00	.07	36.3
84	4150	1.00	.07	36.6
85	4200	1.00	.07	36.9
86	4250	1.00	.07	37.2
87	4300	1.00	.07	37.5
88	4350	1.00	.07	37.8
89	4400	1.00	.07	38.1
90	4450	1.00	.07	38.4
91	4500	1.00	.07	38.7
92	4550	1.00	.07	39.0
93	4600	1.00	.07	39.3
94	4650	1.00	.07	39.6
95	4700	1.00	.07	39.9
96	4750	1.00	.07	40.2
97	4800	1.00	.07	40.5
98	4850	1.00	.07	40.8
99	4900	1.00	.07	41.1
100	4950	1.00	.07	41.4

NORMALIZED VELOCITY PROFILE 812101 REF. VEL. 20.0 FPS

TEST ZONE = 8 WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.54	.08	1.1
2	33	.53	.08	1.1
3	36	.56	.08	1.1
4	40	.64	.10	1.1
5	45	.73	.11	1.1
6	50	.77	.11	1.1
7	55	.77	.11	1.1
8	60	.78	.11	1.1
9	65	.79	.11	1.1
10	70	.80	.11	1.1
11	75	.81	.11	1.1
12	80	.82	.11	1.1
13	85	.83	.11	1.1
14	90	.84	.11	1.1
15	95	.85	.11	1.1
16	100	.86	.11	1.1
17	105	.87	.11	1.1
18	110	.88	.11	1.1
19	115	.89	.11	1.1
20	120	.90	.11	1.1
21	125	.91	.11	1.1
22	130	.92	.11	1.1
23	135	.93	.11	1.1
24	140	.94	.11	1.1
25	145	.95	.11	1.1
26	150	.96	.11	1.1
27	155	.97	.11	1.1
28	160	.98	.11	1.1
29	165	.99	.11	1.1
30	170	1.00	.11	1.1

NORMALIZED VELOCITY PROFILE 812102 REF. VEL. 20.0 FPS

TEST ZONE = 8 WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.54	.08	1.1
2	33	.53	.08	1.1
3	36	.56	.08	1.1
4	40	.64	.10	1.1
5	45	.73	.11	1.1
6	50	.77	.11	1.1
7	55	.77	.11	1.1
8	60	.78	.11	1.1
9	65	.79	.11	1.1
10	70	.80	.11	1.1
11	75	.81	.11	1.1
12	80	.82	.11	1.1
13	85	.83	.11	1.1
14	90	.84	.11	1.1
15	95	.85	.11	1.1
16	100	.86	.11	1.1
17	105	.87	.11	1.1
18	110	.88	.11	1.1
19	115	.89	.11	1.1
20	120	.90	.11	1.1
21	125	.91	.11	1.1
22	130	.92	.11	1.1
23	135	.93	.11	1.1
24	140	.94	.11	1.1
25	145	.95	.11	1.1
26	150	.96	.11	1.1
27	155	.97	.11	1.1
28	160	.98	.11	1.1
29	165	.99	.11	1.1
30	170	1.00	.11	1.1

NORMALIZED VELOCITY PROFILE 812103 REF. VEL. 20.0 FPS

TEST ZONE = 8 WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.53	.08	1.1
2	33	.53	.08	1.1
3	36	.56	.08	1.1
4	40	.64	.10	1.1
5	45	.70	.11	1.1
6	50	.77	.11	1.1
7	55	.77	.11	1.1
8	60	.78	.11	1.1
9	65	.79	.11	1.1
10	70	.80	.11	1.1
11	75	.81	.11	1.1
12	80	.82	.11	1.1
13	85	.83	.11	1.1
14	90	.84	.11	1.1
15	95	.85	.11	1.1
16	100	.86	.11	1.1
17	105	.87	.11	1.1
18	110	.88	.11	1.1
19	115	.89	.11	1.1
20	120	.90	.11	1.1
21	125	.91	.11	1.1
22	130	.92	.11	1.1
23	135	.93	.11	1.1
24	140	.94	.11	1.1
25	145	.95	.11	1.1
26	150	.96	.11	1.1
27	155	.97	.11	1.1
28	160	.98	.11	1.1
29	165	.99	.11	1.1
30	170	1.00	.11	1.1

NORMALIZED VELOCITY PROFILE 812104 REF. VEL. 20.0 FPS

TEST ZONE = 8 WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.47	.09	1.1
2	33	.47	.08	1.1
3	36	.49	.08	1.1
4	40	.56	.10	1.1
5	45	.66	.11	1.1
6	50	.73	.11	1.1
7	55	.77	.11	1.1
8	60	.77	.11	1.1
9	65	.78	.11	1.1
10	70	.79	.11	1.1
11	75	.80	.11	1.1
12	80	.81	.11	1.1
13	85	.82	.11	1.1
14	90	.83	.11	1.1
15	95	.84	.11	1.1
16	100	.85	.11	1.1
17	105	.86	.11	1.1
18	110	.87	.11	1.1
19	115	.88	.11	1.1
20	120	.89	.11	1.1
21	125	.90	.11	1.1
22	130	.91	.11	1.1
23	135	.92	.11	1.1
24	140	.93	.11	1.1
25	145	.94	.11	1.1
26	150	.95	.11	1.1
27	155	.96	.11	1.1
28	160	.97	.11	1.1
29	165	.98	.11	1.1
30	170	.99	.11	1.1

NORMALIZED VELOCITY PROFILE 012105 REF. VEL. 20.0 FPS

TEST ZONE = 0 WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF (U/UREF)	URS (U/UREF)	TURB INT (PERCENT)
1	10	0.00	0.00	0.00
2	20	0.00	0.00	0.00
3	30	0.00	0.00	0.00
4	40	0.00	0.00	0.00
5	50	0.00	0.00	0.00
6	60	0.00	0.00	0.00
7	70	0.00	0.00	0.00
8	80	0.00	0.00	0.00
9	90	0.00	0.00	0.00
10	100	0.00	0.00	0.00
11	110	0.00	0.00	0.00
12	120	0.00	0.00	0.00
13	130	0.00	0.00	0.00
14	140	0.00	0.00	0.00
15	150	0.00	0.00	0.00
16	160	0.00	0.00	0.00
17	170	0.00	0.00	0.00
18	180	0.00	0.00	0.00
19	190	0.00	0.00	0.00
20	200	0.00	0.00	0.00
21	210	0.00	0.00	0.00
22	220	0.00	0.00	0.00
23	230	0.00	0.00	0.00
24	240	0.00	0.00	0.00
25	250	0.00	0.00	0.00
26	260	0.00	0.00	0.00
27	270	0.00	0.00	0.00
28	280	0.00	0.00	0.00
29	290	0.00	0.00	0.00
30	300	0.00	0.00	0.00
31	310	0.00	0.00	0.00
32	320	0.00	0.00	0.00
33	330	0.00	0.00	0.00
34	340	0.00	0.00	0.00
35	350	0.00	0.00	0.00
36	360	0.00	0.00	0.00
37	370	0.00	0.00	0.00
38	380	0.00	0.00	0.00
39	390	0.00	0.00	0.00
40	400	0.00	0.00	0.00
41	410	0.00	0.00	0.00
42	420	0.00	0.00	0.00
43	430	0.00	0.00	0.00
44	440	0.00	0.00	0.00
45	450	0.00	0.00	0.00
46	460	0.00	0.00	0.00
47	470	0.00	0.00	0.00
48	480	0.00	0.00	0.00
49	490	0.00	0.00	0.00
50	500	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13101 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	0.0	0.00	0.00	0.00
2	0.1	0.00	0.00	0.00
3	0.2	0.00	0.00	0.00
4	0.3	0.00	0.00	0.00
5	0.4	0.00	0.00	0.00
6	0.5	0.00	0.00	0.00
7	0.6	0.00	0.00	0.00
8	0.7	0.00	0.00	0.00
9	0.8	0.00	0.00	0.00
10	0.9	0.00	0.00	0.00
11	1.0	0.00	0.00	0.00
12	1.1	0.00	0.00	0.00
13	1.2	0.00	0.00	0.00
14	1.3	0.00	0.00	0.00
15	1.4	0.00	0.00	0.00
16	1.5	0.00	0.00	0.00
17	1.6	0.00	0.00	0.00
18	1.7	0.00	0.00	0.00
19	1.8	0.00	0.00	0.00
20	1.9	0.00	0.00	0.00
21	2.0	0.00	0.00	0.00
22	2.1	0.00	0.00	0.00
23	2.2	0.00	0.00	0.00
24	2.3	0.00	0.00	0.00
25	2.4	0.00	0.00	0.00
26	2.5	0.00	0.00	0.00
27	2.6	0.00	0.00	0.00
28	2.7	0.00	0.00	0.00
29	2.8	0.00	0.00	0.00
30	2.9	0.00	0.00	0.00
31	3.0	0.00	0.00	0.00
32	3.1	0.00	0.00	0.00
33	3.2	0.00	0.00	0.00
34	3.3	0.00	0.00	0.00
35	3.4	0.00	0.00	0.00
36	3.5	0.00	0.00	0.00
37	3.6	0.00	0.00	0.00
38	3.7	0.00	0.00	0.00
39	3.8	0.00	0.00	0.00
40	3.9	0.00	0.00	0.00
41	4.0	0.00	0.00	0.00
42	4.1	0.00	0.00	0.00
43	4.2	0.00	0.00	0.00
44	4.3	0.00	0.00	0.00
45	4.4	0.00	0.00	0.00
46	4.5	0.00	0.00	0.00
47	4.6	0.00	0.00	0.00
48	4.7	0.00	0.00	0.00
49	4.8	0.00	0.00	0.00
50	4.9	0.00	0.00	0.00
51	5.0	0.00	0.00	0.00
52	5.1	0.00	0.00	0.00
53	5.2	0.00	0.00	0.00
54	5.3	0.00	0.00	0.00
55	5.4	0.00	0.00	0.00
56	5.5	0.00	0.00	0.00
57	5.6	0.00	0.00	0.00
58	5.7	0.00	0.00	0.00
59	5.8	0.00	0.00	0.00
60	5.9	0.00	0.00	0.00
61	6.0	0.00	0.00	0.00
62	6.1	0.00	0.00	0.00
63	6.2	0.00	0.00	0.00
64	6.3	0.00	0.00	0.00
65	6.4	0.00	0.00	0.00
66	6.5	0.00	0.00	0.00
67	6.6	0.00	0.00	0.00
68	6.7	0.00	0.00	0.00
69	6.8	0.00	0.00	0.00
70	6.9	0.00	0.00	0.00
71	7.0	0.00	0.00	0.00
72	7.1	0.00	0.00	0.00
73	7.2	0.00	0.00	0.00
74	7.3	0.00	0.00	0.00
75	7.4	0.00	0.00	0.00
76	7.5	0.00	0.00	0.00
77	7.6	0.00	0.00	0.00
78	7.7	0.00	0.00	0.00
79	7.8	0.00	0.00	0.00
80	7.9	0.00	0.00	0.00
81	8.0	0.00	0.00	0.00
82	8.1	0.00	0.00	0.00
83	8.2	0.00	0.00	0.00
84	8.3	0.00	0.00	0.00
85	8.4	0.00	0.00	0.00
86	8.5	0.00	0.00	0.00
87	8.6	0.00	0.00	0.00
88	8.7	0.00	0.00	0.00
89	8.8	0.00	0.00	0.00
90	8.9	0.00	0.00	0.00
91	9.0	0.00	0.00	0.00
92	9.1	0.00	0.00	0.00
93	9.2	0.00	0.00	0.00
94	9.3	0.00	0.00	0.00
95	9.4	0.00	0.00	0.00
96	9.5	0.00	0.00	0.00
97	9.6	0.00	0.00	0.00
98	9.7	0.00	0.00	0.00
99	9.8	0.00	0.00	0.00
100	9.9	0.00	0.00	0.00
101	10.0	0.00	0.00	0.00
102	10.1	0.00	0.00	0.00
103	10.2	0.00	0.00	0.00
104	10.3	0.00	0.00	0.00
105	10.4	0.00	0.00	0.00
106	10.5	0.00	0.00	0.00
107	10.6	0.00	0.00	0.00
108	10.7	0.00	0.00	0.00
109	10.8	0.00	0.00	0.00
110	10.9	0.00	0.00	0.00
111	11.0	0.00	0.00	0.00
112	11.1	0.00	0.00	0.00
113	11.2	0.00	0.00	0.00
114	11.3	0.00	0.00	0.00
115	11.4	0.00	0.00	0.00
116	11.5	0.00	0.00	0.00
117	11.6	0.00	0.00	0.00
118	11.7	0.00	0.00	0.00
119	11.8	0.00	0.00	0.00
120	11.9	0.00	0.00	0.00
121	12.0	0.00	0.00	0.00
122	12.1	0.00	0.00	0.00
123	12.2	0.00	0.00	0.00
124	12.3	0.00	0.00	0.00
125	12.4	0.00	0.00	0.00
126	12.5	0.00	0.00	0.00
127	12.6	0.00	0.00	0.00
128	12.7	0.00	0.00	0.00
129	12.8	0.00	0.00	0.00
130	12.9	0.00	0.00	0.00
131	13.0	0.00	0.00	0.00
132	13.1	0.00	0.00	0.00
133	13.2	0.00	0.00	0.00
134	13.3	0.00	0.00	0.00
135	13.4	0.00	0.00	0.00
136	13.5	0.00	0.00	0.00
137	13.6	0.00	0.00	0.00
138	13.7	0.00	0.00	0.00
139	13.8	0.00	0.00	0.00
140	13.9	0.00	0.00	0.00
141	14.0	0.00	0.00	0.00
142	14.1	0.00	0.00	0.00
143	14.2	0.00	0.00	0.00
144	14.3	0.00	0.00	0.00
145	14.4	0.00	0.00	0.00
146	14.5	0.00	0.00	0.00
147	14.6	0.00	0.00	0.00
148	14.7	0.00	0.00	0.00
149	14.8	0.00	0.00	0.00
150	14.9	0.00	0.00	0.00
151	15.0	0.00	0.00	0.00
152	15.1	0.00	0.00	0.00
153	15.2	0.00	0.00	0.00
154	15.3	0.00	0.00	0.00
155	15.4	0.00	0.00	0.00
156	15.5	0.00	0.00	0.00
157	15.6	0.00	0.00	0.00
158	15.7	0.00	0.00	0.00
159	15.8	0.00	0.00	0.00
160	15.9	0.00	0.00	0.00
161	16.0	0.00	0.00	0.00
162	16.1	0.00	0.00	0.00
163	16.2	0.00	0.00	0.00
164	16.3	0.00	0.00	0.00
165	16.4	0.00	0.00	0.00
166	16.5	0.00	0.00	0.00
167	16.6	0.00	0.00	0.00
168	16.7	0.00	0.00	0.00
169	16.8	0.00	0.00	0.00
170	16.9	0.00	0.00	0.00
171	17.0	0.00	0.00	0.00
172	17.1	0.00	0.00	0.00
173	17.2	0.00	0.00	0.00
174	17.3	0.00	0.00	0.00
175	17.4	0.00	0.00	0.00
176	17.5	0.00	0.00	0.00
177	17.6	0.00	0.00	0.00
178	17.7	0.00	0.00	0.00
179	17.8	0.00	0.00	0.00
180	17.9	0.00	0.00	0.00
181	18.0	0.00	0.00	0.00
182	18.1	0.00	0.00	0.00
183	18.2	0.00	0.00	0.00
184	18.3	0.00	0.00	0.00
185	18.4	0.00	0.00	0.00
186	18.5	0.00	0.00	0.00
187	18.6	0.00	0.00	0.00
188	18.7	0.00	0.00	0.00
189	18.8	0.00	0.00	0.00
190	18.9	0.00	0.00	0.00
191	19.0	0.00	0.00	0.00
192	19.1	0.00	0.00	0.00
193	19.2	0.00	0.00	0.00
194	19.3	0.00	0.00	0.00
195	19.4	0.00	0.00	0.00
196	19.5	0.00	0.00	0.00
197	19.6	0.00	0.00	0.00
198	19.7	0.00	0.00	0.00
199	19.8	0.00	0.00	0.00
200	19.9	0.00	0.00	0.00
201	20.0	0.00	0.00	0.00
202	20.1	0.00	0.00	0.00
203	20.2	0.00	0.00	0.00
204	20.3	0.00	0.00	0.00
205	20.4	0.00	0.00	0.00
206	20.5	0.00	0.00	0.00
207	20.6	0.00	0.00	0.00
208	20.7	0.00	0.00	0.00
209	20.8	0.00	0.00	0.00
210	20.9	0.00	0.00	0.00
211	21.0	0.00	0.00	0.00
212	21.1	0.00	0.00	0.00
213	21.2	0.00	0.00	0.00
214	21.3	0.00	0.00	0.00
215	21.4	0.00	0.00	0.00
216	21.5	0.00	0.00	0.00
217	21.6	0.00	0.00	0.00
218	21.7	0.00	0.00	0.00
219	21.8	0.00	0.00	0.00
220	21.9	0.00	0.00	0.00
221	22.0	0.00	0.00	0.00
222	22.1	0.00	0.00	0.00
223	22.2	0.00	0.00	0.00
224	22.3	0.00	0.00	0.00
225	22.4	0.00	0.00	0.00
226	22.5	0.00	0.00	0.00
227	22.6	0.00	0.00	0.00
228	22.7	0.00	0.00	0.00
229	22.8	0.00	0.00	0.00
230	22.9	0.00	0.00	0.00
231	23.0	0.00	0.00	0.00
232	23.1	0.00	0.00	0.00
233	23.2	0.00	0.00	0.00
234	23.3	0.00	0.00	0.00
235	23.4	0.00	0.00	0.00
236	23.5	0.00	0.00	0.00
237	23.6	0.00	0.00	0.00
238	23.7	0.00	0.00	0.00
239	23.8	0.00	0.00	0.00
240	23.9	0.00	0.00	0.00
241	24.0	0.00	0.00	0.00
242	24.1	0.00	0.00	0.00
243	24.2	0.00	0.00	0.00
244	24.3	0.00	0.00	0.00
245	24.4	0.00	0.00	0.00
246	24.5	0.00	0.00	0.00
247	24.6	0.00	0.00	0.00
248	24.7	0.00	0.00	0.00
249	24.8	0.00	0.00	0.00
250	24.9	0.00	0.00	0.00
251	25.0	0.00	0.00	0.00
252	25.1	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13102 REF. VEL. 32.2 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.07	.08	1.1
2	15	.08	.09	1.1
3	20	.09	.10	1.1
4	25	.10	.11	1.1
5	30	.11	.12	1.1
6	35	.12	.13	1.1
7	40	.13	.14	1.1
8	45	.14	.15	1.1
9	50	.15	.16	1.1
10	55	.16	.17	1.1
11	60	.17	.18	1.1
12	65	.18	.19	1.1
13	70	.19	.20	1.1
14	75	.20	.21	1.1
15	80	.21	.22	1.1
16	85	.22	.23	1.1
17	90	.23	.24	1.1
18	95	.24	.25	1.1
19	100	.25	.26	1.1
20	105	.26	.27	1.1
21	110	.27	.28	1.1
22	115	.28	.29	1.1
23	120	.29	.30	1.1
24	125	.30	.31	1.1
25	130	.31	.32	1.1
26	135	.32	.33	1.1
27	140	.33	.34	1.1
28	145	.34	.35	1.1
29	150	.35	.36	1.1
30	155	.36	.37	1.1
31	160	.37	.38	1.1
32	165	.38	.39	1.1
33	170	.39	.40	1.1
34	175	.40	.41	1.1
35	180	.41	.42	1.1
36	185	.42	.43	1.1
37	190	.43	.44	1.1
38	195	.44	.45	1.1
39	200	.45	.46	1.1
40	205	.46	.47	1.1
41	210	.47	.48	1.1
42	215	.48	.49	1.1
43	220	.49	.50	1.1
44	225	.50	.51	1.1
45	230	.51	.52	1.1
46	235	.52	.53	1.1
47	240	.53	.54	1.1
48	245	.54	.55	1.1
49	250	.55	.56	1.1
50	255	.56	.57	1.1
51	260	.57	.58	1.1
52	265	.58	.59	1.1
53	270	.59	.60	1.1
54	275	.60	.61	1.1
55	280	.61	.62	1.1
56	285	.62	.63	1.1
57	290	.63	.64	1.1
58	295	.64	.65	1.1
59	300	.65	.66	1.1
60	305	.66	.67	1.1
61	310	.67	.68	1.1
62	315	.68	.69	1.1
63	320	.69	.70	1.1
64	325	.70	.71	1.1
65	330	.71	.72	1.1
66	335	.72	.73	1.1
67	340	.73	.74	1.1
68	345	.74	.75	1.1
69	350	.75	.76	1.1
70	355	.76	.77	1.1
71	360	.77	.78	1.1
72	365	.78	.79	1.1
73	370	.79	.80	1.1
74	375	.80	.81	1.1
75	380	.81	.82	1.1
76	385	.82	.83	1.1
77	390	.83	.84	1.1
78	395	.84	.85	1.1
79	400	.85	.86	1.1
80	405	.86	.87	1.1
81	410	.87	.88	1.1
82	415	.88	.89	1.1
83	420	.89	.90	1.1
84	425	.90	.91	1.1
85	430	.91	.92	1.1
86	435	.92	.93	1.1
87	440	.93	.94	1.1
88	445	.94	.95	1.1
89	450	.95	.96	1.1
90	455	.96	.97	1.1
91	460	.97	.98	1.1
92	465	.98	.99	1.1
93	470	.99	1.00	1.1
94	475	1.00	1.00	1.1
95	480	1.00	1.00	1.1
96	485	1.00	1.00	1.1
97	490	1.00	1.00	1.1
98	495	1.00	1.00	1.1
99	500	1.00	1.00	1.1
100	505	1.00	1.00	1.1
101	510	1.00	1.00	1.1
102	515	1.00	1.00	1.1
103	520	1.00	1.00	1.1
104	525	1.00	1.00	1.1
105	530	1.00	1.00	1.1
106	535	1.00	1.00	1.1
107	540	1.00	1.00	1.1
108	545	1.00	1.00	1.1
109	550	1.00	1.00	1.1
110	555	1.00	1.00	1.1
111	560	1.00	1.00	1.1
112	565	1.00	1.00	1.1
113	570	1.00	1.00	1.1
114	575	1.00	1.00	1.1
115	580	1.00	1.00	1.1
116	585	1.00	1.00	1.1
117	590	1.00	1.00	1.1
118	595	1.00	1.00	1.1
119	600	1.00	1.00	1.1
120	605	1.00	1.00	1.1
121	610	1.00	1.00	1.1
122	615	1.00	1.00	1.1
123	620	1.00	1.00	1.1
124	625	1.00	1.00	1.1
125	630	1.00	1.00	1.1
126	635	1.00	1.00	1.1
127	640	1.00	1.00	1.1
128	645	1.00	1.00	1.1
129	650	1.00	1.00	1.1
130	655	1.00	1.00	1.1
131	660	1.00	1.00	1.1
132	665	1.00	1.00	1.1
133	670	1.00	1.00	1.1
134	675	1.00	1.00	1.1
135	680	1.00	1.00	1.1
136	685	1.00	1.00	1.1
137	690	1.00	1.00	1.1
138	695	1.00	1.00	1.1
139	700	1.00	1.00	1.1
140	705	1.00	1.00	1.1
141	710	1.00	1.00	1.1
142	715	1.00	1.00	1.1
143	720	1.00	1.00	1.1
144	725	1.00	1.00	1.1
145	730	1.00	1.00	1.1
146	735	1.00	1.00	1.1
147	740	1.00	1.00	1.1
148	745	1.00	1.00	1.1
149	750	1.00	1.00	1.1
150	755	1.00	1.00	1.1
151	760	1.00	1.00	1.1
152	765	1.00	1.00	1.1
153	770	1.00	1.00	1.1
154	775	1.00	1.00	1.1
155	780	1.00	1.00	1.1
156	785	1.00	1.00	1.1
157	790	1.00	1.00	1.1
158	795	1.00	1.00	1.1
159	800	1.00	1.00	1.1
160	805	1.00	1.00	1.1
161	810	1.00	1.00	1.1
162	815	1.00	1.00	1.1
163	820	1.00	1.00	1.1
164	825	1.00	1.00	1.1
165	830	1.00	1.00	1.1
166	835	1.00	1.00	1.1
167	840	1.00	1.00	1.1
168	845	1.00	1.00	1.1
169	850	1.00	1.00	1.1
170	855	1.00	1.00	1.1
171	860	1.00	1.00	1.1
172	865	1.00	1.00	1.1
173	870	1.00	1.00	1.1
174	875	1.00	1.00	1.1
175	880	1.00	1.00	1.1
176	885	1.00	1.00	1.1
177	890	1.00	1.00	1.1
178	895	1.00	1.00	1.1
179	900	1.00	1.00	1.1
180	905	1.00	1.00	1.1
181	910	1.00	1.00	1.1
182	915	1.00	1.00	1.1
183	920	1.00	1.00	1.1
184	925	1.00	1.00	1.1
185	930	1.00	1.00	1.1
186	935	1.00	1.00	1.1
187	940	1.00	1.00	1.1
188	945	1.00	1.00	1.1
189	950	1.00	1.00	1.1
190	955	1.00	1.00	1.1
191	960	1.00	1.00	1.1
192	965	1.00	1.00	1.1
193	970	1.00	1.00	1.1
194	975	1.00	1.00	1.1
195	980	1.00	1.00	1.1
196	985	1.00	1.00	1.1
197	990	1.00	1.00	1.1
198	995	1.00	1.00	1.1
199	1000	1.00	1.00	1.1

NORMALIZED VELOCITY PROFILE B13112 REF. VEL. 32.1 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.07	.08	1.1
2	15	.08	.09	1.1
3	20	.09	.10	1.1
4	25	.10	.11	1.1
5	30	.11	.12	1.1
6	35	.12	.13	1.1
7	40	.13	.14	1.1
8	45	.14	.15	1.1
9	50	.15	.16	1.1
10	55	.16	.17	1.1
11	60	.17	.18	1.1
12	65	.18	.19	1.1
13	70	.19	.20	1.1
14	75	.20	.21	1.1
15	80	.21	.22	1.1
16	85	.22	.23	1.1
17	90	.23	.24	1.1
18	95	.24	.25	1.1
19	100	.25	.26	1.1
20	105	.26	.27	1.1
21	110	.27	.28	1.1
22	115	.28	.29	1.1
23	120	.29	.30	1.1
24	125	.30	.31	1.1
25	130	.31	.32	1.1
26	135	.32	.33	1.1
27	140	.33	.34	1.1
28	145	.34	.35	1.1
29	150	.35	.36	1.1
30	155	.36	.37	1.1
31	160	.37	.38	1.1
32	165	.38	.39	1.1
33	170	.39	.40	1.1
34	175	.40	.41	1.1
35	180	.41	.42	1.1
36	185	.42	.43	1.1
37	190	.43	.44	1.1
38	195	.44	.45	1.1
39	200	.45	.46	1.1
40	205	.46	.47	1.1
41	210	.47	.48	1.1
42	215	.48	.49	1.1
43	220	.49	.50	1.1
44	225	.50	.51	1.1
45	230	.51	.52	1.1
46	235	.52	.53	1.1
47	240	.53	.54	1.1
48	245	.54	.55	1.1
49	250	.55	.56	1.1
50	255	.56	.57	1.1
51	260	.57	.58	1.1
52	265	.58	.59	1.1
53	270	.59	.60	1.1
54	275	.60	.61	1.1
55	280	.61	.62	1.1
56	285	.62	.63	1.1
57	290	.63	.64	1.1
58	295	.64	.65	1.1
59	300	.65	.66	1.1
60	305	.66	.67	1.1
61	310	.67	.68	1.1
62	315	.68	.69	1.1
63	320	.69	.70	1.1
64	325	.70	.71	1.1
65	330	.71	.72	1.1
66	335	.72	.73	1.1
67	340	.73	.74	1.1
68	345	.74	.75	1.1
69	350	.75	.76	1.1
70	355	.76	.77	1.1
71	360	.77	.78	1.1
72	365	.78	.79	1.1
73	370	.79	.8	

NORMALIZED VELOCITY PROFILE B13103 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URNS (U/UREF)	TURB INT (PERCENT)
1	1.30	.36	.00	14.1
2	1.40	.36	.00	14.1
3	1.50	.36	.00	14.1
4	1.60	.36	.00	14.1
5	1.70	.36	.00	14.1
6	1.80	.36	.00	14.1
7	1.90	.36	.00	14.1
8	2.00	.36	.00	14.1
9	2.10	.36	.00	14.1
10	2.20	.36	.00	14.1
11	2.30	.36	.00	14.1
12	2.40	.36	.00	14.1
13	2.50	.36	.00	14.1
14	2.60	.36	.00	14.1
15	2.70	.36	.00	14.1
16	2.80	.36	.00	14.1
17	2.90	.36	.00	14.1
18	3.00	.36	.00	14.1
19	3.10	.36	.00	14.1
20	3.20	.36	.00	14.1
21	3.30	.36	.00	14.1
22	3.40	.36	.00	14.1
23	3.50	.36	.00	14.1
24	3.60	.36	.00	14.1
25	3.70	.36	.00	14.1
26	3.80	.36	.00	14.1
27	3.90	.36	.00	14.1
28	4.00	.36	.00	14.1
29	4.10	.36	.00	14.1
30	4.20	.36	.00	14.1
31	4.30	.36	.00	14.1
32	4.40	.36	.00	14.1
33	4.50	.36	.00	14.1
34	4.60	.36	.00	14.1
35	4.70	.36	.00	14.1
36	4.80	.36	.00	14.1
37	4.90	.36	.00	14.1
38	5.00	.36	.00	14.1
39	5.10	.36	.00	14.1
40	5.20	.36	.00	14.1
41	5.30	.36	.00	14.1
42	5.40	.36	.00	14.1
43	5.50	.36	.00	14.1
44	5.60	.36	.00	14.1
45	5.70	.36	.00	14.1
46	5.80	.36	.00	14.1
47	5.90	.36	.00	14.1
48	6.00	.36	.00	14.1
49	6.10	.36	.00	14.1
50	6.20	.36	.00	14.1
51	6.30	.36	.00	14.1
52	6.40	.36	.00	14.1
53	6.50	.36	.00	14.1
54	6.60	.36	.00	14.1
55	6.70	.36	.00	14.1
56	6.80	.36	.00	14.1
57	6.90	.36	.00	14.1
58	7.00	.36	.00	14.1
59	7.10	.36	.00	14.1
60	7.20	.36	.00	14.1
61	7.30	.36	.00	14.1
62	7.40	.36	.00	14.1
63	7.50	.36	.00	14.1
64	7.60	.36	.00	14.1
65	7.70	.36	.00	14.1
66	7.80	.36	.00	14.1
67	7.90	.36	.00	14.1
68	8.00	.36	.00	14.1
69	8.10	.36	.00	14.1
70	8.20	.36	.00	14.1
71	8.30	.36	.00	14.1
72	8.40	.36	.00	14.1
73	8.50	.36	.00	14.1
74	8.60	.36	.00	14.1
75	8.70	.36	.00	14.1
76	8.80	.36	.00	14.1
77	8.90	.36	.00	14.1
78	9.00	.36	.00	14.1
79	9.10	.36	.00	14.1
80	9.20	.36	.00	14.1
81	9.30	.36	.00	14.1
82	9.40	.36	.00	14.1
83	9.50	.36	.00	14.1
84	9.60	.36	.00	14.1
85	9.70	.36	.00	14.1
86	9.80	.36	.00	14.1
87	9.90	.36	.00	14.1
88	10.00	.36	.00	14.1
89	10.10	.36	.00	14.1
90	10.20	.36	.00	14.1
91	10.30	.36	.00	14.1
92	10.40	.36	.00	14.1
93	10.50	.36	.00	14.1
94	10.60	.36	.00	14.1
95	10.70	.36	.00	14.1
96	10.80	.36	.00	14.1
97	10.90	.36	.00	14.1
98	11.00	.36	.00	14.1
99	11.10	.36	.00	14.1
100	11.20	.36	.00	14.1
101	11.30	.36	.00	14.1
102	11.40	.36	.00	14.1
103	11.50	.36	.00	14.1
104	11.60	.36	.00	14.1
105	11.70	.36	.00	14.1
106	11.80	.36	.00	14.1
107	11.90	.36	.00	14.1
108	12.00	.36	.00	14.1
109	12.10	.36	.00	14.1
110	12.20	.36	.00	14.1
111	12.30	.36	.00	14.1
112	12.40	.36	.00	14.1
113	12.50	.36	.00	14.1
114	12.60	.36	.00	14.1
115	12.70	.36	.00	14.1
116	12.80	.36	.00	14.1
117	12.90	.36	.00	14.1
118	13.00	.36	.00	14.1
119	13.10	.36	.00	14.1
120	13.20	.36	.00	14.1
121	13.30	.36	.00	14.1
122	13.40	.36	.00	14.1
123	13.50	.36	.00	14.1
124	13.60	.36	.00	14.1
125	13.70	.36	.00	14.1
126	13.80	.36	.00	14.1
127	13.90	.36	.00	14.1
128	14.00	.36	.00	14.1
129	14.10	.36	.00	14.1
130	14.20	.36	.00	14.1
131	14.30	.36	.00	14.1
132	14.40	.36	.00	14.1
133	14.50	.36	.00	14.1
134	14.60	.36	.00	14.1
135	14.70	.36	.00	14.1
136	14.80	.36	.00	14.1
137	14.90	.36	.00	14.1
138	15.00	.36	.00	14.1
139	15.10	.36	.00	14.1
140	15.20	.36	.00	14.1
141	15.30	.36	.00	14.1
142	15.40	.36	.00	14.1
143	15.50	.36	.00	14.1
144	15.60	.36	.00	14.1
145	15.70	.36	.00	14.1
146	15.80	.36	.00	14.1
147	15.90	.36	.00	14.1
148	16.00	.36	.00	14.1
149	16.10	.36	.00	14.1
150	16.20	.36	.00	14.1
151	16.30	.36	.00	14.1
152	16.40	.36	.00	14.1
153	16.50	.36	.00	14.1
154	16.60	.36	.00	14.1
155	16.70	.36	.00	14.1
156	16.80	.36	.00	14.1
157	16.90	.36	.00	14.1
158	17.00	.36	.00	14.1
159	17.10	.36	.00	14.1
160	17.20	.36	.00	14.1
161	17.30	.36	.00	14.1
162	17.40	.36	.00	14.1
163	17.50	.36	.00	14.1
164	17.60	.36	.00	14.1
165	17.70	.36	.00	14.1
166	17.80	.36	.00	14.1
167	17.90	.36	.00	14.1
168	18.00	.36	.00	14.1
169	18.10	.36	.00	14.1
170	18.20	.36	.00	14.1
171	18.30	.36	.00	14.1
172	18.40	.36	.00	14.1
173	18.50	.36	.00	14.1
174	18.60	.36	.00	14.1
175	18.70	.36	.00	14.1
176	18.80	.36	.00	14.1
177	18.90	.36	.00	14.1
178	19.00	.36	.00	14.1
179	19.10	.36	.00	14.1
180	19.20	.36	.00	14.1
181	19.30	.36	.00	14.1
182	19.40	.36	.00	14.1
183	19.50	.36	.00	14.1
184	19.60	.36	.00	14.1
185	19.70	.36	.00	14.1
186	19.80	.36	.00	14.1
187	19.90	.36	.00	14.1
188	20.00	.36	.00	14.1
189	20.10	.36	.00	14.1
190	20.20	.36	.00	14.1
191	20.30	.36	.00	14.1
192	20.40	.36	.00	14.1
193	20.50	.36	.00	14.1
194	20.60	.36	.00	14.1
195	20.70	.36	.00	14.1
196	20.80	.36	.00	14.1
197	20.90	.36	.00	14.1
198	21.00	.36	.00	14.1
199	21.10	.36	.00	14.1
200	21.20	.36	.00	14.1
201	21.30	.36	.00	14.1
202	21.40	.36	.00	14.1
203	21.50	.36	.00	14.1
204	21.60	.36	.00	14.1
205	21.70	.36	.00	14.1
206	21.80	.36	.00	14.1
207	21.90	.36	.00	14.1
208	22.00	.36	.00	14.1
209	22.10	.36	.00	14.1
210	22.20	.36	.00	14.1
211	22.30	.36	.00	14.1
212	22.40	.36	.00	14.1
213	22.50	.36	.00	14.1
214	22.60	.36	.00	14.1
215	22.70	.36	.00	14.1
216	22.80	.36	.00	14.1
217	22.90	.36	.00	14.1
218	23.00	.36	.00	14.1
219	23.10	.36	.00	14.1
220	23.20	.36	.00	14.1
221	23.30	.36	.00	14.1
222	23.40	.36	.00	14.1
223	23.50	.36	.00	14.1
224	23.60	.36	.00	14.1
225	23.70	.36	.00	14.1
226	23.80	.36	.00	14.1
227	23.90	.36	.00	14.1
228	24.00	.36	.00	14.1
229	24.10	.36	.00	14.1
230	24.20	.36	.00	14.1
231	24.30	.36	.00	14.1
232	24.40	.36	.00	14.1
233	24.50	.36	.00	14.1
234	24.60	.36	.00	14.1
235	24.70	.36	.00	14.1
236	24.80	.36	.00	14.1
237	24.90	.36	.00	14.1
238	25.00	.36	.00	14.1
239	25.10	.36	.00	14.1
240	25.20	.36	.00	14.1
241	25.30	.36	.00	14.1
242	25.40	.36	.00	14.1
243	25.50	.36	.00	14.1
244	25.60	.36	.00	14.1
245	25.70	.36	.00	14.1
246	25.80	.36	.00	14.1
247	25.90	.36	.00	14.1
248	26.00	.36	.00	14.1
249	26.10	.36	.00	14.1
250	26.20	.36	.00	14.1
251	26.30	.36	.00	14.1
252	26.40	.36	.00	14.1
253	26.50	.36	.00	14.1
254	26.60	.36	.00	14.1
255	26.70	.36	.00	14.1
256	26.80	.36	.00	14.1
257	26.90	.36	.00	14.1
258	27.00	.36	.00	14.1
259	27.10	.36	.00	14.1
260	27.20	.36	.00	14.1
261	27.30	.36	.00	14.1
262	27.40	.36	.00	14.1
263	27.50	.36	.00	14.1
264	27.60	.36	.00	14.1
265	27.70	.36	.00	14.1
266	27.80	.36	.00	14.1
267	27.90	.36	.00	14.1
268	28.00	.36	.00	14.1

NORMALIZED VELOCITY PROFILE 813104 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.30	.10	1.0
2	71	.30	.11	1.0
3	93	.30	.11	1.0
4	114	.30	.11	1.0
5	135	.30	.11	1.0
6	156	.30	.11	1.0
7	177	.30	.11	1.0
8	198	.30	.11	1.0
9	219	.30	.11	1.0
10	240	.30	.11	1.0
11	261	.30	.11	1.0
12	282	.30	.11	1.0
13	303	.30	.11	1.0
14	324	.30	.11	1.0
15	345	.30	.11	1.0
16	366	.30	.11	1.0
17	387	.30	.11	1.0
18	408	.30	.11	1.0
19	429	.30	.11	1.0
20	450	.30	.11	1.0
21	471	.30	.11	1.0
22	492	.30	.11	1.0
23	513	.30	.11	1.0
24	534	.30	.11	1.0
25	555	.30	.11	1.0
26	576	.30	.11	1.0
27	597	.30	.11	1.0
28	618	.30	.11	1.0
29	639	.30	.11	1.0
30	660	.30	.11	1.0
31	681	.30	.11	1.0
32	702	.30	.11	1.0
33	723	.30	.11	1.0
34	744	.30	.11	1.0
35	765	.30	.11	1.0
36	786	.30	.11	1.0
37	807	.30	.11	1.0
38	828	.30	.11	1.0
39	849	.30	.11	1.0
40	870	.30	.11	1.0
41	891	.30	.11	1.0
42	912	.30	.11	1.0
43	933	.30	.11	1.0
44	954	.30	.11	1.0
45	975	.30	.11	1.0
46	996	.30	.11	1.0
47	1017	.30	.11	1.0
48	1038	.30	.11	1.0
49	1059	.30	.11	1.0
50	1080	.30	.11	1.0
51	1101	.30	.11	1.0
52	1122	.30	.11	1.0
53	1143	.30	.11	1.0
54	1164	.30	.11	1.0
55	1185	.30	.11	1.0
56	1206	.30	.11	1.0
57	1227	.30	.11	1.0
58	1248	.30	.11	1.0
59	1269	.30	.11	1.0
60	1290	.30	.11	1.0
61	1311	.30	.11	1.0
62	1332	.30	.11	1.0
63	1353	.30	.11	1.0
64	1374	.30	.11	1.0
65	1395	.30	.11	1.0
66	1416	.30	.11	1.0
67	1437	.30	.11	1.0
68	1458	.30	.11	1.0
69	1479	.30	.11	1.0
70	1500	.30	.11	1.0
71	1521	.30	.11	1.0
72	1542	.30	.11	1.0
73	1563	.30	.11	1.0
74	1584	.30	.11	1.0
75	1605	.30	.11	1.0
76	1626	.30	.11	1.0
77	1647	.30	.11	1.0
78	1668	.30	.11	1.0
79	1689	.30	.11	1.0
80	1710	.30	.11	1.0
81	1731	.30	.11	1.0
82	1752	.30	.11	1.0
83	1773	.30	.11	1.0
84	1794	.30	.11	1.0
85	1815	.30	.11	1.0
86	1836	.30	.11	1.0
87	1857	.30	.11	1.0
88	1878	.30	.11	1.0
89	1899	.30	.11	1.0
90	1920	.30	.11	1.0
91	1941	.30	.11	1.0
92	1962	.30	.11	1.0
93	1983	.30	.11	1.0
94	2004	.30	.11	1.0
95	2025	.30	.11	1.0
96	2046	.30	.11	1.0
97	2067	.30	.11	1.0
98	2088	.30	.11	1.0
99	2109	.30	.11	1.0
100	2130	.30	.11	1.0

NORMALIZED VELOCITY PROFILE 813114 REF. VEL. 31.9 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.30	.10	1.0
2	71	.30	.11	1.0
3	93	.30	.11	1.0
4	114	.30	.11	1.0
5	135	.30	.11	1.0
6	156	.30	.11	1.0
7	177	.30	.11	1.0
8	198	.30	.11	1.0
9	219	.30	.11	1.0
10	240	.30	.11	1.0
11	261	.30	.11	1.0
12	282	.30	.11	1.0
13	303	.30	.11	1.0
14	324	.30	.11	1.0
15	345	.30	.11	1.0
16	366	.30	.11	1.0
17	387	.30	.11	1.0
18	408	.30	.11	1.0
19	429	.30	.11	1.0
20	450	.30	.11	1.0
21	471	.30	.11	1.0
22	492	.30	.11	1.0
23	513	.30	.11	1.0
24	534	.30	.11	1.0
25	555	.30	.11	1.0
26	576	.30	.11	1.0
27	597	.30	.11	1.0
28	618	.30	.11	1.0
29	639	.30	.11	1.0
30	660	.30	.11	1.0
31	681	.30	.11	1.0
32	702	.30	.11	1.0
33	723	.30	.11	1.0
34	744	.30	.11	1.0
35	765	.30	.11	1.0
36	786	.30	.11	1.0
37	807	.30	.11	1.0
38	828	.30	.11	1.0
39	849	.30	.11	1.0
40	870	.30	.11	1.0
41	891	.30	.11	1.0
42	912	.30	.11	1.0
43	933	.30	.11	1.0
44	954	.30	.11	1.0
45	975	.30	.11	1.0
46	996	.30	.11	1.0
47	1017	.30	.11	1.0
48	1038	.30	.11	1.0
49	1059	.30	.11	1.0
50	1080	.30	.11	1.0
51	1101	.30	.11	1.0
52	1122	.30	.11	1.0
53	1143	.30	.11	1.0
54	1164	.30	.11	1.0
55	1185	.30	.11	1.0
56	1206	.30	.11	1.0
57	1227	.30	.11	1.0
58	1248	.30	.11	1.0
59	1269	.30	.11	1.0
60	1290	.30	.11	1.0
61	1311	.30	.11	1.0
62	1332	.30	.11	1.0
63	1353	.30	.11	1.0
64	1374	.30	.11	1.0
65	1395	.30	.11	1.0
66	1416	.30	.11	1.0
67	1437	.30	.11	1.0
68	1458	.30	.11	1.0
69	1479	.30	.11	1.0
70	1500	.30	.11	1.0
71	1521	.30	.11	1.0
72	1542	.30	.11	1.0
73	1563	.30	.11	1.0
74	1584	.30	.11	1.0
75	1605	.30	.11	1.0
76	1626	.30	.11	1.0
77	1647	.30	.11	1.0
78	1668	.30	.11	1.0
79	1689	.30	.11	1.0
80	1710	.30	.11	1.0
81	1731	.30	.11	1.0
82	1752	.30	.11	1.0
83	1773	.30	.11	1.0
84	1794	.30	.11	1.0
85	1815	.30	.11	1.0
86	1836	.30	.11	1.0
87	1857	.30	.11	1.0
88	1878	.30	.11	1.0
89	1899	.30	.11	1.0
90	1920	.30	.11	1.0
91	1941	.30	.11	1.0
92	1962	.30	.11	1.0
93	1983	.30	.11	1.0
94	2004	.30	.11	1.0
95	2025	.30	.11	1.0
96	2046	.30	.11	1.0
97	2067	.30	.11	1.0
98	2088	.30	.11	1.0
99	2109	.30	.11	1.0
100	2130	.30	.11	1.0

NORMALIZED VELOCITY PROFILE 813124 REF. VEL. 31.9 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	20.7
2	71	.44	.09	20.0
3	93	.44	.10	20.0
4	114	.44	.11	20.0
5	135	.44	.11	20.0
6	156	.44	.11	20.0
7	177	.44	.11	20.0
8	198	.44	.11	20.0
9	219	.44	.11	20.0
10	240	.44	.11	20.0
11	261	.44	.11	20.0
12	282	.44	.11	20.0
13	303	.44	.11	20.0
14	324	.44	.11	20.0
15	345	.44	.11	20.0
16	366	.44	.11	20.0
17	387	.44	.11	20.0
18	408	.44	.11	20.0
19	429	.44	.11	20.0
20	450	.44	.11	20.0
21	471	.44	.11	20.0
22	492	.44	.11	20.0
23	513	.44	.11	20.0
24	534	.44	.11	20.0
25	555	.44	.11	20.0
26	576	.44	.11	20.0
27	597	.44	.11	20.0
28	618	.44	.11	20.0
29	639	.44	.11	20.0
30	660	.44	.11	20.0
31	681	.44	.11	20.0
32	702	.44	.11	20.0
33	723	.44	.11	20.0
34	744	.44	.11	20.0
35	765	.44	.11	20.0
36	786	.44	.11	20.0
37	807	.44	.11	20.0
38	828	.44	.11	20.0
39	849	.44	.11	20.0
40	870	.44	.11	20.0
41	891	.44	.11	20.0
42	912	.44	.11	20.0
43	933	.44	.11	20.0
44	954	.44	.11	20.0
45	975	.44	.11	20.0
46	996	.44	.11	20.0
47	1017	.44	.11	20.0
48	1038	.44	.11	20.0
49	1059	.44	.11	20.0
50	1080	.44	.11	20.0
51	1101	.44	.11	20.0
52	1122	.44	.11	20.0
53	1143	.44	.11	20.0
54	1164	.44	.11	20.0
55	1185	.44	.11	20.0
56	1206	.44	.11	20.0
57	1227	.44	.11	20.0
58	1248	.44	.11	20.0
59	1269	.44	.11	20.0
60	1290	.44	.11	20.0
61	1311	.44	.11	20.0
62	1332	.44	.11	20.0
63	1353	.44	.11	20.0
64	1374	.44	.11	20.0
65	1395	.44	.11	20.0
66	1416	.44	.11	20.0
67	1437	.44	.11	20.0
68	1458	.44	.11	20.0
69	1479	.44	.11	20.0
70	1500	.44	.11	20.0
71	1521	.44	.11	20.0
72	1542	.44	.11	20.0
73				

NORMALIZED VELOCITY PROFILE 023102 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.037	.09	24.9
2	75	.047	.10	22.4
3	100	.057	.11	22.2
4	125	.067	.13	22.2
5	150	.077	.14	22.2
6	175	.087	.12	22.2
7	200	.097	.11	22.2
8	225	.107	.10	22.2
9	250	.117	.09	22.2
10	275	.127	.08	22.2
11	300	.137	.07	22.2
12	325	.147	.06	22.2
13	350	.157	.05	22.2
14	375	.167	.04	22.2
15	400	.177	.03	22.2
16	425	.187	.02	22.2
17	450	.197	.01	22.2
18	475	.207	.00	22.2
19	500	.217	.00	22.2
20	525	.227	.00	22.2
21	550	.237	.00	22.2
22	575	.247	.00	22.2
23	600	.257	.00	22.2
24	625	.267	.00	22.2
25	650	.277	.00	22.2
26	675	.287	.00	22.2
27	700	.297	.00	22.2
28	725	.307	.00	22.2
29	750	.317	.00	22.2
30	775	.327	.00	22.2
31	800	.337	.00	22.2
32	825	.347	.00	22.2
33	850	.357	.00	22.2
34	875	.367	.00	22.2
35	900	.377	.00	22.2
36	925	.387	.00	22.2
37	950	.397	.00	22.2
38	975	.407	.00	22.2
39	1000	.417	.00	22.2
40	1025	.427	.00	22.2
41	1050	.437	.00	22.2
42	1075	.447	.00	22.2
43	1100	.457	.00	22.2
44	1125	.467	.00	22.2
45	1150	.477	.00	22.2
46	1175	.487	.00	22.2
47	1200	.497	.00	22.2
48	1225	.507	.00	22.2
49	1250	.517	.00	22.2
50	1275	.527	.00	22.2
51	1300	.537	.00	22.2
52	1325	.547	.00	22.2
53	1350	.557	.00	22.2
54	1375	.567	.00	22.2
55	1400	.577	.00	22.2
56	1425	.587	.00	22.2
57	1450	.597	.00	22.2
58	1475	.607	.00	22.2
59	1500	.617	.00	22.2
60	1525	.627	.00	22.2
61	1550	.637	.00	22.2
62	1575	.647	.00	22.2
63	1600	.657	.00	22.2
64	1625	.667	.00	22.2
65	1650	.677	.00	22.2
66	1675	.687	.00	22.2
67	1700	.697	.00	22.2
68	1725	.707	.00	22.2
69	1750	.717	.00	22.2
70	1775	.727	.00	22.2
71	1800	.737	.00	22.2
72	1825	.747	.00	22.2
73	1850	.757	.00	22.2
74	1875	.767	.00	22.2
75	1900	.777	.00	22.2
76	1925	.787	.00	22.2
77	1950	.797	.00	22.2
78	1975	.807	.00	22.2
79	2000	.817	.00	22.2
80	2025	.827	.00	22.2
81	2050	.837	.00	22.2
82	2075	.847	.00	22.2
83	2100	.857	.00	22.2
84	2125	.867	.00	22.2
85	2150	.877	.00	22.2
86	2175	.887	.00	22.2
87	2200	.897	.00	22.2
88	2225	.907	.00	22.2
89	2250	.917	.00	22.2
90	2275	.927	.00	22.2
91	2300	.937	.00	22.2
92	2325	.947	.00	22.2
93	2350	.957	.00	22.2
94	2375	.967	.00	22.2
95	2400	.977	.00	22.2
96	2425	.987	.00	22.2
97	2450	.997	.00	22.2
98	2475	1.007	.00	22.2
99	2500	1.017	.00	22.2
100	2525	1.027	.00	22.2
101	2550	1.037	.00	22.2
102	2575	1.047	.00	22.2
103	2600	1.057	.00	22.2
104	2625	1.067	.00	22.2
105	2650	1.077	.00	22.2
106	2675	1.087	.00	22.2
107	2700	1.097	.00	22.2
108	2725	1.107	.00	22.2
109	2750	1.117	.00	22.2
110	2775	1.127	.00	22.2
111	2800	1.137	.00	22.2
112	2825	1.147	.00	22.2
113	2850	1.157	.00	22.2
114	2875	1.167	.00	22.2
115	2900	1.177	.00	22.2
116	2925	1.187	.00	22.2
117	2950	1.197	.00	22.2
118	2975	1.207	.00	22.2
119	3000	1.217	.00	22.2
120	3025	1.227	.00	22.2
121	3050	1.237	.00	22.2
122	3075	1.247	.00	22.2
123	3100	1.257	.00	22.2
124	3125	1.267	.00	22.2
125	3150	1.277	.00	22.2
126	3175	1.287	.00	22.2
127	3200	1.297	.00	22.2
128	3225	1.307	.00	22.2
129	3250	1.317	.00	22.2
130	3275	1.327	.00	22.2
131	3300	1.337	.00	22.2
132	3325	1.347	.00	22.2
133	3350	1.357	.00	22.2
134	3375	1.367	.00	22.2
135	3400	1.377	.00	22.2
136	3425	1.387	.00	22.2
137	3450	1.397	.00	22.2
138	3475	1.407	.00	22.2
139	3500	1.417	.00	22.2
140	3525	1.427	.00	22.2
141	3550	1.437	.00	22.2
142	3575	1.447	.00	22.2
143	3600	1.457	.00	22.2
144	3625	1.467	.00	22.2
145	3650	1.477	.00	22.2
146	3675	1.487	.00	22.2
147	3700	1.497	.00	22.2
148	3725	1.507	.00	22.2
149	3750	1.517	.00	22.2
150	3775	1.527	.00	22.2
151	3800	1.537	.00	22.2
152	3825	1.547	.00	22.2
153	3850	1.557	.00	22.2
154	3875	1.567	.00	22.2
155	3900	1.577	.00	22.2
156	3925	1.587	.00	22.2
157	3950	1.597	.00	22.2
158	3975	1.607	.00	22.2
159	4000	1.617	.00	22.2
160	4025	1.627	.00	22.2
161	4050	1.637	.00	22.2
162	4075	1.647	.00	22.2
163	4100	1.657	.00	22.2
164	4125	1.667	.00	22.2
165	4150	1.677	.00	22.2
166	4175	1.687	.00	22.2
167	4200	1.697	.00	22.2
168	4225	1.707	.00	22.2
169	4250	1.717	.00	22.2
170	4275	1.727	.00	22.2
171	4300	1.737	.00	22.2
172	4325	1.747	.00	22.2
173	4350	1.757	.00	22.2
174	4375	1.767	.00	22.2
175	4400	1.777	.00	22.2
176	4425	1.787	.00	22.2
177	4450	1.797	.00	22.2
178	4475	1.807	.00	22.2
179	4500	1.817	.00	22.2
180	4525	1.827	.00	22.2
181	4550	1.837	.00	22.2
182	4575	1.847	.00	22.2
183	4600	1.857	.00	22.2
184	4625	1.867	.00	22.2
185	4650	1.877	.00	22.2
186	4675	1.887	.00	22.2
187	4700	1.897	.00	22.2
188	4725	1.907	.00	22.2
189	4750	1.917	.00	22.2
190	4775	1.927	.00	22.2
191	4800	1.937	.00	22.2
192	4825	1.947	.00	22.2
193	4850	1.957	.00	22.2
194	4875	1.967	.00	22.2
195	4900	1.977	.00	22.2
196	4925	1.987	.00	22.2
197	4950	1.997	.00	22.2
198	4975	2.007	.00	22.2
199	5000	2.017	.00	22.2
200	5025	2.027	.00	22.2
201	5050	2.037	.00	22.2
202	5075	2.047	.00	22.2
203	5100	2.057	.00	22.2
204	5125	2.067	.00	22.2
205	5150	2.077	.00	22.2
206	5175	2.087	.00	22.2
207	5200	2.097	.00	22.2
208	5225	2.107	.00	22.2
209	5250	2.117	.00	22.2
210	5275	2.127	.00	22.2
211	5300	2.137	.00	22.2
212	5325	2.147	.00	22.2
213	5350	2.157	.00	22.2
214	5375	2.167	.00	22.2
215	5400	2.177	.00	22.2
216	5425	2.187	.00	22.2
217	5450	2.197	.00	22.2
218	5475	2.207	.00	22.2
219	5500	2.217	.00	22.2
220	5525	2.227	.00	22.2
221	5550	2.237	.00	22.2
222	5575	2.247	.00	22.2
223	5600	2.257	.00	22.2
224	5625	2.267	.00	22.2
225	5650	2.277	.00	22.2
226	5675	2.287	.00	22.2
227	5700	2.297	.00	22.2
228	5725	2.307	.00	22.2
229	5750	2.317	.00	22.2
230	5775	2.327	.00	22.2
231	5800	2.337	.00	22.2
232	5825	2.347	.00	22.2
233	5850	2.357	.00	22.2
234	5875	2.367	.00	22.2
235	5900	2.377	.00	22.2
236	5925	2.387	.00	22.2
237	5950	2.397	.00	22.2
238	5975	2.407	.00	22.2
239	6000	2.417	.00	22.2
240	6025	2.427	.00	22.2
241	6050	2.437	.00	22.2
242	6075	2.447	.00	22.2
243	6100	2.457	.00	22.2
244	6125	2.467	.00	22.2
245	6150	2.477	.00	22.2
246	6175	2.487	.00	22.2
247	6200	2.497	.00	22.2
248	6225	2.507	.00	22.2
249	6250	2.517	.00	22.2
250	6275	2.527	.00	22.2
251	6300	2.537	.00	22.2
252	6325	2.547	.00	22.2
253	6350	2.557	.00	22.2
254	6375	2.567	.00	22.2
255	6400	2.577	.00	22.2
256	6425	2.587	.00	22.2
257	6450	2.597	.00	22.2
258	6475	2.607	.00	22.2
259	6500	2.617	.00	22.2
260	6525	2.627	.00	22.2

NORMALIZED VELOCITY PROFILE B23104 REF. VEL. 32.4 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	0.00	0.10	20
2	75	0.00	0.11	20
3	97	0.00	0.11	20
4	111	0.00	0.11	20
5	132	0.00	0.11	20
6	147	0.00	0.11	20
7	166	0.00	0.11	20
8	180	0.00	0.11	20
9	200	0.00	0.11	20
10	220	0.00	0.11	20
11	240	0.00	0.11	20
12	260	0.00	0.11	20
13	280	0.00	0.11	20
14	300	0.00	0.11	20
15	320	0.00	0.11	20
16	340	0.00	0.11	20
17	360	0.00	0.11	20
18	380	0.00	0.11	20
19	400	0.00	0.11	20
20	420	0.00	0.11	20
21	440	0.00	0.11	20
22	460	0.00	0.11	20
23	480	0.00	0.11	20
24	500	0.00	0.11	20

NORMALIZED VELOCITY PROFILE B23114 REF. VEL. 32.4 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	0.00	0.11	50
2	75	0.00	0.11	49
3	97	0.00	0.11	47
4	111	0.00	0.11	46
5	132	0.00	0.11	44
6	147	0.00	0.11	40
7	166	0.00	0.11	36
8	180	0.00	0.11	32
9	200	0.00	0.11	28
10	220	0.00	0.11	24
11	240	0.00	0.11	20
12	260	0.00	0.11	16
13	280	0.00	0.11	12
14	300	0.00	0.11	8
15	320	0.00	0.11	4
16	340	0.00	0.11	0
17	360	0.00	0.11	0
18	380	0.00	0.11	0
19	400	0.00	0.11	0
20	420	0.00	0.11	0
21	440	0.00	0.11	0
22	460	0.00	0.11	0
23	480	0.00	0.11	0
24	500	0.00	0.11	0

NORMALIZED VELOCITY PROFILE B23124 REF. VEL. 32.3 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	0.00	0.10	20
2	75	0.00	0.11	20
3	97	0.00	0.11	20
4	111	0.00	0.11	20
5	132	0.00	0.11	20
6	147	0.00	0.11	20
7	166	0.00	0.11	20
8	180	0.00	0.11	20
9	200	0.00	0.11	20
10	220	0.00	0.11	20
11	240	0.00	0.11	20
12	260	0.00	0.11	20
13	280	0.00	0.11	20
14	300	0.00	0.11	20
15	320	0.00	0.11	20
16	340	0.00	0.11	20
17	360	0.00	0.11	20
18	380	0.00	0.11	20
19	400	0.00	0.11	20
20	420	0.00	0.11	20
21	440	0.00	0.11	20
22	460	0.00	0.11	20
23	480	0.00	0.11	20
24	500	0.00	0.11	20

NORMALIZED VELOCITY PROFILE B23134 REF. VEL. 32.4 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	0.00	0.11	50
2	75	0.00	0.11	49
3	97	0.00	0.11	47
4	111	0.00	0.11	46
5	132	0.00	0.11	44
6	147	0.00	0.11	40
7	166	0.00	0.11	36
8	180	0.00	0.11	32
9	200	0.00	0.11	28
10	220	0.00	0.11	24
11	240	0.00	0.11	20
12	260	0.00	0.11	16
13	280	0.00	0.11	12
14	300	0.00	0.11	8
15	320	0.00	0.11	4
16	340	0.00	0.11	0
17	360	0.00	0.11	0
18	380	0.00	0.11	0
19	400	0.00	0.11	0
20	420	0.00	0.11	0
21	440	0.00	0.11	0
22	460	0.00	0.11	0
23	480	0.00	0.11	0
24	500	0.00	0.11	0

NORMALIZED VELOCITY PROFILE B23105 REF. VEL. 32.4 FPS

TEST ZONE = 0 WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	0.00	0.00	0.00
2	10	0.00	0.00	0.00
3	15	0.00	0.00	0.00
4	20	0.00	0.00	0.00
5	25	0.00	0.00	0.00
6	30	0.00	0.00	0.00
7	35	0.00	0.00	0.00
8	40	0.00	0.00	0.00
9	45	0.00	0.00	0.00
10	50	0.00	0.00	0.00
11	55	0.00	0.00	0.00
12	60	0.00	0.00	0.00
13	65	0.00	0.00	0.00
14	70	0.00	0.00	0.00
15	75	0.00	0.00	0.00
16	80	0.00	0.00	0.00
17	85	0.00	0.00	0.00
18	90	0.00	0.00	0.00
19	95	0.00	0.00	0.00
20	100	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B23115 REF. VEL. 32.4 FPS

TEST ZONE = 0 WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	0.00	0.00	0.00
2	10	0.00	0.00	0.00
3	15	0.00	0.00	0.00
4	20	0.00	0.00	0.00
5	25	0.00	0.00	0.00
6	30	0.00	0.00	0.00
7	35	0.00	0.00	0.00
8	40	0.00	0.00	0.00
9	45	0.00	0.00	0.00
10	50	0.00	0.00	0.00
11	55	0.00	0.00	0.00
12	60	0.00	0.00	0.00
13	65	0.00	0.00	0.00
14	70	0.00	0.00	0.00
15	75	0.00	0.00	0.00
16	80	0.00	0.00	0.00
17	85	0.00	0.00	0.00
18	90	0.00	0.00	0.00
19	95	0.00	0.00	0.00
20	100	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B23125 REF. VEL. 32.5 FPS

TEST ZONE = 0 WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	0.00	0.00	0.00
2	10	0.00	0.00	0.00
3	15	0.00	0.00	0.00
4	20	0.00	0.00	0.00
5	25	0.00	0.00	0.00
6	30	0.00	0.00	0.00
7	35	0.00	0.00	0.00
8	40	0.00	0.00	0.00
9	45	0.00	0.00	0.00
10	50	0.00	0.00	0.00
11	55	0.00	0.00	0.00
12	60	0.00	0.00	0.00
13	65	0.00	0.00	0.00
14	70	0.00	0.00	0.00
15	75	0.00	0.00	0.00
16	80	0.00	0.00	0.00
17	85	0.00	0.00	0.00
18	90	0.00	0.00	0.00
19	95	0.00	0.00	0.00
20	100	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B23135 REF. VEL. 32.5 FPS

TEST ZONE = 0 WIND DIRECTION = WNW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	0.00	0.00	0.00
2	10	0.00	0.00	0.00
3	15	0.00	0.00	0.00
4	20	0.00	0.00	0.00
5	25	0.00	0.00	0.00
6	30	0.00	0.00	0.00
7	35	0.00	0.00	0.00
8	40	0.00	0.00	0.00
9	45	0.00	0.00	0.00
10	50	0.00	0.00	0.00
11	55	0.00	0.00	0.00
12	60	0.00	0.00	0.00
13	65	0.00	0.00	0.00
14	70	0.00	0.00	0.00
15	75	0.00	0.00	0.00
16	80	0.00	0.00	0.00
17	85	0.00	0.00	0.00
18	90	0.00	0.00	0.00
19	95	0.00	0.00	0.00
20	100	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B31105 REF. VEL. 9.9 FPS

TEST ZONE = 9 WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	20	.24	.10	0.7
2	24	.24	.10	0.7
3	28	.26	.10	0.7
4	32	.26	.10	0.7
5	36	.28	.10	0.7
6	40	.28	.10	0.7
7	44	.30	.10	0.7
8	48	.30	.10	0.7
9	52	.32	.10	0.7
10	56	.32	.10	0.7
11	60	.34	.10	0.7
12	64	.34	.10	0.7
13	68	.36	.10	0.7
14	72	.36	.10	0.7
15	76	.38	.10	0.7
16	80	.38	.10	0.7
17	84	.40	.10	0.7
18	88	.40	.10	0.7
19	92	.42	.10	0.7
20	96	.42	.10	0.7
21	100	.44	.10	0.7
22	104	.44	.10	0.7
23	108	.46	.10	0.7
24	112	.46	.10	0.7
25	116	.48	.10	0.7
26	120	.48	.10	0.7
27	124	.50	.10	0.7
28	128	.50	.10	0.7
29	132	.52	.10	0.7
30	136	.52	.10	0.7
31	140	.54	.10	0.7
32	144	.54	.10	0.7
33	148	.56	.10	0.7
34	152	.56	.10	0.7
35	156	.58	.10	0.7
36	160	.58	.10	0.7
37	164	.60	.10	0.7
38	168	.60	.10	0.7
39	172	.62	.10	0.7
40	176	.62	.10	0.7
41	180	.64	.10	0.7
42	184	.64	.10	0.7
43	188	.66	.10	0.7
44	192	.66	.10	0.7
45	196	.68	.10	0.7
46	200	.68	.10	0.7
47	204	.70	.10	0.7
48	208	.70	.10	0.7
49	212	.72	.10	0.7
50	216	.72	.10	0.7
51	220	.74	.10	0.7
52	224	.74	.10	0.7
53	228	.76	.10	0.7
54	232	.76	.10	0.7
55	236	.78	.10	0.7
56	240	.78	.10	0.7
57	244	.80	.10	0.7
58	248	.80	.10	0.7
59	252	.82	.10	0.7
60	256	.82	.10	0.7
61	260	.84	.10	0.7
62	264	.84	.10	0.7
63	268	.86	.10	0.7
64	272	.86	.10	0.7
65	276	.88	.10	0.7
66	280	.88	.10	0.7
67	284	.90	.10	0.7
68	288	.90	.10	0.7
69	292	.92	.10	0.7
70	296	.92	.10	0.7
71	300	.94	.10	0.7
72	304	.94	.10	0.7
73	308	.96	.10	0.7
74	312	.96	.10	0.7
75	316	.98	.10	0.7
76	320	.98	.10	0.7
77	324	1.00	.10	0.7
78	328	1.00	.10	0.7
79	332	1.00	.10	0.7
80	336	1.00	.10	0.7

NORMALIZED VELOCITY PROFILE 832105 REF. VEL. 20.0 FPS

TEST ZONE - B WIND DIRECTION - NU
TIME OF DAY - NOON POSITION OF PROFILE - 9
FENCE CONFIGURATION - NO FENCE

DATA POINT	HEIGHT (INCHES)	WIND SPEED (M/SEC)	WIND DIRECTION (DEG INT)	PERCENT
1	10	10.0	0	50
2	20	10.0	0	50
3	30	10.0	0	50
4	40	10.0	0	50
5	50	10.0	0	50
6	60	10.0	0	50
7	70	10.0	0	50
8	80	10.0	0	50
9	90	10.0	0	50
10	100	10.0	0	50

NORMALIZED VELOCITY PROFILE B33101

REF. VEL. 31.5 FPS

TEST ZONE = B

WIND DIRECTION = NU

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	10	.44	.09	21
2	10	.44	.10	11
3	10	.44	.10	11
4	10	.44	.10	11
5	10	.44	.10	11
6	10	.44	.10	11
7	10	.44	.10	11
8	10	.44	.10	11
9	10	.44	.10	11
10	10	.44	.10	11
11	10	.44	.10	11
12	10	.44	.10	11
13	10	.44	.10	11
14	10	.44	.10	11
15	10	.44	.10	11
16	10	.44	.10	11
17	10	.44	.10	11
18	10	.44	.10	11
19	10	.44	.10	11
20	10	.44	.10	11
21	10	.44	.10	11
22	10	.44	.10	11
23	10	.44	.10	11
24	10	.44	.10	11
25	10	.44	.10	11
26	10	.44	.10	11
27	10	.44	.10	11
28	10	.44	.10	11
29	10	.44	.10	11
30	10	.44	.10	11
31	10	.44	.10	11
32	10	.44	.10	11
33	10	.44	.10	11
34	10	.44	.10	11
35	10	.44	.10	11
36	10	.44	.10	11
37	10	.44	.10	11
38	10	.44	.10	11
39	10	.44	.10	11
40	10	.44	.10	11
41	10	.44	.10	11
42	10	.44	.10	11
43	10	.44	.10	11
44	10	.44	.10	11
45	10	.44	.10	11
46	10	.44	.10	11
47	10	.44	.10	11
48	10	.44	.10	11
49	10	.44	.10	11
50	10	.44	.10	11

NORMALIZED VELOCITY PROFILE B33111

REF. VEL. 32.0 FPS

TEST ZONE = B

WIND DIRECTION = NU

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	10	.05	.05	3
2	10	.05	.05	3
3	10	.05	.05	3
4	10	.05	.05	3
5	10	.05	.05	3
6	10	.05	.05	3
7	10	.05	.05	3
8	10	.05	.05	3
9	10	.05	.05	3
10	10	.05	.05	3
11	10	.05	.05	3
12	10	.05	.05	3
13	10	.05	.05	3
14	10	.05	.05	3
15	10	.05	.05	3
16	10	.05	.05	3
17	10	.05	.05	3
18	10	.05	.05	3
19	10	.05	.05	3
20	10	.05	.05	3
21	10	.05	.05	3
22	10	.05	.05	3
23	10	.05	.05	3
24	10	.05	.05	3
25	10	.05	.05	3
26	10	.05	.05	3
27	10	.05	.05	3
28	10	.05	.05	3
29	10	.05	.05	3
30	10	.05	.05	3
31	10	.05	.05	3
32	10	.05	.05	3
33	10	.05	.05	3
34	10	.05	.05	3
35	10	.05	.05	3
36	10	.05	.05	3
37	10	.05	.05	3
38	10	.05	.05	3
39	10	.05	.05	3
40	10	.05	.05	3
41	10	.05	.05	3
42	10	.05	.05	3
43	10	.05	.05	3
44	10	.05	.05	3
45	10	.05	.05	3
46	10	.05	.05	3
47	10	.05	.05	3
48	10	.05	.05	3
49	10	.05	.05	3
50	10	.05	.05	3

NORMALIZED VELOCITY PROFILE B33121

REF. VEL. 32.3 FPS

TEST ZONE = B

WIND DIRECTION = NU

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	10	.07	.07	3
2	10	.07	.07	3
3	10	.07	.07	3
4	10	.07	.07	3
5	10	.07	.07	3
6	10	.07	.07	3
7	10	.07	.07	3
8	10	.07	.07	3
9	10	.07	.07	3
10	10	.07	.07	3
11	10	.07	.07	3
12	10	.07	.07	3
13	10	.07	.07	3
14	10	.07	.07	3
15	10	.07	.07	3
16	10	.07	.07	3
17	10	.07	.07	3
18	10	.07	.07	3
19	10	.07	.07	3
20	10	.07	.07	3
21	10	.07	.07	3
22	10	.07	.07	3
23	10	.07	.07	3
24	10	.07	.07	3
25	10	.07	.07	3
26	10	.07	.07	3
27	10	.07	.07	3
28	10	.07	.07	3
29	10	.07	.07	3
30	10	.07	.07	3
31	10	.07	.07	3
32	10	.07	.07	3
33	10	.07	.07	3
34	10	.07	.07	3
35	10	.07	.07	3
36	10	.07	.07	3
37	10	.07	.07	3
38	10	.07	.07	3
39	10	.07	.07	3
40	10	.07	.07	3
41	10	.07	.07	3
42	10	.07	.07	3
43	10	.07	.07	3
44	10	.07	.07	3
45	10	.07	.07	3
46	10	.07	.07	3
47	10	.07	.07	3
48	10	.07	.07	3
49	10	.07	.07	3
50	10	.07	.07	3

NORMALIZED VELOCITY PROFILE B33131

REF. VEL. 32.4 FPS

TEST ZONE = B

WIND DIRECTION = NU

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	10	.09	.09	3
2	10	.09	.09	3
3	10	.09	.09	3
4	10	.09	.09	3
5	10	.09	.09	3
6	10	.09	.09	3
7	10	.09	.09	3
8	10	.09	.09	3
9	10	.09	.09	3
10	10	.09	.09	3
11	10	.09	.09	3
12	10	.09	.09	3
13	10	.09	.09	3
14	10	.09	.09	3
15	10	.09	.09	3
16	10	.09	.09	3
17	10	.09	.09	3
18	10	.09	.09	3
19	10	.09	.09	3
20	10	.09	.09	3
21	10	.09	.09	3
22	10	.09	.09	3
23	10	.09	.09	3
24	10	.09	.09	3
25	10	.09	.09	3
26	10	.09	.09	3
27	10	.09	.09	3
28	10	.09	.09	3
29	10	.09	.09	3
30	10	.09	.09	3
31	10	.09	.09	3
32	10	.09	.09	3
33	10	.09	.09	3
34	10	.09	.09	3
35	10	.09	.09	3
36	10	.09	.09	3
37	10	.09	.09	3
38	10	.09	.09	3
39	10	.09	.09	3
40	10	.09	.09	3
41	10	.09	.09	3
42	10	.09	.09	3
43	10	.09	.09	3
44	10	.09	.09	3
45	10	.09	.09	3
46	10	.09	.09	3
47	10	.09	.09	3
48	10	.09	.09	3
49	10	.09	.09	3
50	10	.09	.09	3

NORMALIZED VELOCITY PROFILE B33102 REF. VEL. 32.7 FPS

TEST ZONE = B WIND DIRECTION = NU
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/EAN (U/UREF)	U/RNS (U/UREF)	TURB INT (PERCENT)
1	10	.10	.10	0
2	11	.11	.11	0
3	12	.12	.12	0
4	13	.13	.13	0
5	14	.14	.14	0
6	15	.15	.15	0
7	16	.16	.16	0
8	17	.17	.17	0
9	18	.18	.18	0
10	19	.19	.19	0
11	20	.20	.20	0
12	21	.21	.21	0
13	22	.22	.22	0
14	23	.23	.23	0
15	24	.24	.24	0
16	25	.25	.25	0
17	26	.26	.26	0
18	27	.27	.27	0
19	28	.28	.28	0
20	29	.29	.29	0
21	30	.30	.30	0
22	31	.31	.31	0
23	32	.32	.32	0
24	33	.33	.33	0
25	34	.34	.34	0
26	35	.35	.35	0
27	36	.36	.36	0
28	37	.37	.37	0
29	38	.38	.38	0
30	39	.39	.39	0
31	40	.40	.40	0
32	41	.41	.41	0
33	42	.42	.42	0
34	43	.43	.43	0
35	44	.44	.44	0
36	45	.45	.45	0
37	46	.46	.46	0
38	47	.47	.47	0
39	48	.48	.48	0
40	49	.49	.49	0
41	50	.50	.50	0
42	51	.51	.51	0
43	52	.52	.52	0
44	53	.53	.53	0
45	54	.54	.54	0
46	55	.55	.55	0
47	56	.56	.56	0
48	57	.57	.57	0
49	58	.58	.58	0
50	59	.59	.59	0
51	60	.60	.60	0
52	61	.61	.61	0
53	62	.62	.62	0
54	63	.63	.63	0
55	64	.64	.64	0
56	65	.65	.65	0
57	66	.66	.66	0
58	67	.67	.67	0
59	68	.68	.68	0
60	69	.69	.69	0
61	70	.70	.70	0
62	71	.71	.71	0
63	72	.72	.72	0
64	73	.73	.73	0
65	74	.74	.74	0
66	75	.75	.75	0
67	76	.76	.76	0
68	77	.77	.77	0
69	78	.78	.78	0
70	79	.79	.79	0
71	80	.80	.80	0
72	81	.81	.81	0
73	82	.82	.82	0
74	83	.83	.83	0
75	84	.84	.84	0
76	85	.85	.85	0
77	86	.86	.86	0
78	87	.87	.87	0
79	88	.88	.88	0
80	89	.89	.89	0
81	90	.90	.90	0
82	91	.91	.91	0
83	92	.92	.92	0
84	93	.93	.93	0
85	94	.94	.94	0
86	95	.95	.95	0
87	96	.96	.96	0
88	97	.97	.97	0
89	98	.98	.98	0
90	99	.99	.99	0
91	100	1.00	1.00	0

NORMALIZED VELOCITY PROFILE B33112 REF. VEL. 32.6 FPS

TEST ZONE = B WIND DIRECTION = NU
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/EAN (U/UREF)	U/RNS (U/UREF)	TURB INT (PERCENT)
1	10	.10	.10	0
2	11	.11	.11	0
3	12	.12	.12	0
4	13	.13	.13	0
5	14	.14	.14	0
6	15	.15	.15	0
7	16	.16	.16	0
8	17	.17	.17	0
9	18	.18	.18	0
10	19	.19	.19	0
11	20	.20	.20	0
12	21	.21	.21	0
13	22	.22	.22	0
14	23	.23	.23	0
15	24	.24	.24	0
16	25	.25	.25	0
17	26	.26	.26	0
18	27	.27	.27	0
19	28	.28	.28	0
20	29	.29	.29	0
21	30	.30	.30	0
22	31	.31	.31	0
23	32	.32	.32	0
24	33	.33	.33	0
25	34	.34	.34	0
26	35	.35	.35	0
27	36	.36	.36	0
28	37	.37	.37	0
29	38	.38	.38	0
30	39	.39	.39	0
31	40	.40	.40	0
32	41	.41	.41	0
33	42	.42	.42	0
34	43	.43	.43	0
35	44	.44	.44	0
36	45	.45	.45	0
37	46	.46	.46	0
38	47	.47	.47	0
39	48	.48	.48	0
40	49	.49	.49	0
41	50	.50	.50	0
42	51	.51	.51	0
43	52	.52	.52	0
44	53	.53	.53	0
45	54	.54	.54	0
46	55	.55	.55	0
47	56	.56	.56	0
48	57	.57	.57	0
49	58	.58	.58	0
50	59	.59	.59	0
51	60	.60	.60	0
52	61	.61	.61	0
53	62	.62	.62	0
54	63	.63	.63	0
55	64	.64	.64	0
56	65	.65	.65	0
57	66	.66	.66	0
58	67	.67	.67	0
59	68	.68	.68	0
60	69	.69	.69	0
61	70	.70	.70	0
62	71	.71	.71	0
63	72	.72	.72	0
64	73	.73	.73	0
65	74	.74	.74	0
66	75	.75	.75	0
67	76	.76	.76	0
68	77	.77	.77	0
69	78	.78	.78	0
70	79	.79	.79	0
71	80	.80	.80	0
72	81	.81	.81	0
73	82	.82	.82	0
74	83	.83	.83	0
75	84	.84	.84	0
76	85	.85	.85	0
77	86	.86	.86	0
78	87	.87	.87	0
79	88	.88	.88	0
80	89	.89	.89	0
81	90	.90	.90	0
82	91	.91	.91	0
83	92	.92	.92	0
84	93	.93	.93	0
85	94	.94	.94	0
86	95	.95	.95	0
87	96	.96	.96	0
88	97	.97	.97	0
89	98	.98	.98	0
90	99	.99	.99	0
91	100	1.00	1.00	0

NORMALIZED VELOCITY PROFILE B33122 REF. VEL. 32.7 FPS

TEST ZONE = B WIND DIRECTION = NU
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/EAN (U/UREF)	U/RNS (U/UREF)	TURB INT (PERCENT)
1	10	.10	.10	0
2	11	.11	.11	0
3	12	.12	.12	0
4	13	.13	.13	0
5	14	.14	.14	0
6	15	.15	.15	0
7	16	.16	.16	0
8	17	.17	.17	0
9	18	.18	.18	0
10	19	.19	.19	0
11	20	.20	.20	0
12	21	.21	.21	0
13	22	.22	.22	0
14	23	.23	.23	0
15	24	.24	.24	0
16	25	.25	.25	0
17	26	.26	.26	0
18	27	.27	.27	0
19	28	.28	.28	0
20	29	.29	.29	0
21	30	.30	.30	0
22	31	.31	.31	0
23	32	.32	.32	0
24	33	.33	.33	0
25	34	.34	.34	0
26	35	.35	.35	0
27	36	.36	.36	0
28	37	.37	.37	0
29	38	.38	.38	0
30	39	.39	.39	0
31	40	.40	.40	0
32	41	.41	.41	0
33	42	.42	.42	0
34	43	.43	.43	0
35	44	.44	.44	0
36	45	.45	.45	0
37	46	.46	.46	0
38	47	.47	.47	0
39	48	.48	.48	0
40	49	.49	.49	0
41	50	.50	.50	0
42	51	.51	.51	0
43	52	.52	.52	0
44	53	.53	.53	0
45	54	.54	.54	0
46	55	.55	.55	0
47	56	.56	.56	0
48	57	.57	.57	0
49	58	.58	.58	0
50	59	.59	.59	0
51	60	.60	.60	0
52	61	.61	.61	0
53	62	.62	.62	0
54	63	.63	.63	0
55	64	.64	.64	0
56	65	.65	.65	0
57	66	.66	.66	0
58	67	.67	.67	0
59	68	.68	.68	0
60	69	.69	.69	0
61	70	.70	.70	0
62	71	.71	.71	0
63	72	.72	.72	0
64	73	.73	.73	0
65	74	.74	.74	0
66	75	.75	.75	0
67	76	.76	.76	0
68	77	.77	.77	0
69	78	.78	.78	0
70	79	.79	.79	0
71	80	.80	.80	0
72	81	.81	.81	0
73	82	.82	.82	0
74	83	.83	.83	0
75	84	.84	.84	0
76	85	.85	.85	0
77	86	.86	.86	0
78	87	.87	.87	0
79	88	.88	.88	0
80	89	.89	.89	0
81	90	.90	.90	0
82	91	.91	.91	0
83	92	.92	.92	0
84	93	.93	.93	0
85	94	.94	.94	0
86	95	.95	.95	0
87	96	.96	.96	0
88	97	.97	.97	0
89	98	.98	.98	0
90	99	.99	.99	0
91	100	1.00	1.00	0

NORMALIZED VELOCITY PROFILE B33132 REF. VEL. 32.8 FPS

TEST ZONE = B WIND DIRECTION = NU
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U/EAN (U/UREF)	U/RNS (U/UREF)	TURB INT (PERCENT)
1	10	.10	.10	0
2	11	.11	.11	0
3	12	.12	.12	0
4	13	.13	.13	0
5	14	.14	.14	0
6	15	.15	.15	0
7	16	.16	.16	0
8	17	.17	.17	0
9	18	.18	.18	0
10	19	.19	.19	0
11	20	.20	.20	0
12	21	.21	.21	0
13	22	.22	.22	0
14	23	.23	.23	0
15	24	.24	.24	0
16	25	.25	.25	0
17	26	.26	.26	0
18	27	.27	.27	0
19	28	.		

NORMALIZED VELOCITY PROFILE B33103 REF. VEL. 32.8 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	3	.44	.13	3.4
2	7.5	.44	.13	3.4
3	11.75	.44	.13	3.4
4	16	.44	.13	3.4
5	20.25	.44	.13	3.4
6	24.5	.44	.13	3.4
7	28.75	.44	.13	3.4
8	33	.44	.13	3.4
9	37.25	.44	.13	3.4
10	41.5	.44	.13	3.4
11	45.75	.44	.13	3.4
12	50	.44	.13	3.4
13	54.25	.44	.13	3.4
14	58.5	.44	.13	3.4
15	62.75	.44	.13	3.4
16	67	.44	.13	3.4
17	71.25	.44	.13	3.4
18	75.5	.44	.13	3.4
19	79.75	.44	.13	3.4
20	84	.44	.13	3.4
21	88.25	.44	.13	3.4
22	92.5	.44	.13	3.4
23	96.75	.44	.13	3.4
24	101	.44	.13	3.4
25	105.25	.44	.13	3.4
26	109.5	.44	.13	3.4
27	113.75	.44	.13	3.4
28	118	.44	.13	3.4
29	122.25	.44	.13	3.4
30	126.5	.44	.13	3.4
31	130.75	.44	.13	3.4
32	135	.44	.13	3.4
33	139.25	.44	.13	3.4
34	143.5	.44	.13	3.4
35	147.75	.44	.13	3.4
36	152	.44	.13	3.4
37	156.25	.44	.13	3.4
38	160.5	.44	.13	3.4
39	164.75	.44	.13	3.4
40	169	.44	.13	3.4
41	173.25	.44	.13	3.4
42	177.5	.44	.13	3.4
43	181.75	.44	.13	3.4
44	186	.44	.13	3.4
45	190.25	.44	.13	3.4
46	194.5	.44	.13	3.4
47	198.75	.44	.13	3.4
48	203	.44	.13	3.4
49	207.25	.44	.13	3.4
50	211.5	.44	.13	3.4
51	215.75	.44	.13	3.4
52	220	.44	.13	3.4
53	224.25	.44	.13	3.4
54	228.5	.44	.13	3.4
55	232.75	.44	.13	3.4
56	237	.44	.13	3.4
57	241.25	.44	.13	3.4
58	245.5	.44	.13	3.4
59	249.75	.44	.13	3.4
60	254	.44	.13	3.4
61	258.25	.44	.13	3.4
62	262.5	.44	.13	3.4
63	266.75	.44	.13	3.4
64	271	.44	.13	3.4
65	275.25	.44	.13	3.4
66	279.5	.44	.13	3.4
67	283.75	.44	.13	3.4
68	288	.44	.13	3.4
69	292.25	.44	.13	3.4
70	296.5	.44	.13	3.4
71	300.75	.44	.13	3.4
72	305	.44	.13	3.4
73	309.25	.44	.13	3.4
74	313.5	.44	.13	3.4
75	317.75	.44	.13	3.4
76	322	.44	.13	3.4
77	326.25	.44	.13	3.4
78	330.5	.44	.13	3.4
79	334.75	.44	.13	3.4
80	339	.44	.13	3.4
81	343.25	.44	.13	3.4
82	347.5	.44	.13	3.4
83	351.75	.44	.13	3.4
84	356	.44	.13	3.4
85	360.25	.44	.13	3.4
86	364.5	.44	.13	3.4
87	368.75	.44	.13	3.4
88	373	.44	.13	3.4
89	377.25	.44	.13	3.4
90	381.5	.44	.13	3.4
91	385.75	.44	.13	3.4
92	390	.44	.13	3.4
93	394.25	.44	.13	3.4
94	398.5	.44	.13	3.4
95	402.75	.44	.13	3.4
96	407	.44	.13	3.4
97	411.25	.44	.13	3.4
98	415.5	.44	.13	3.4
99	419.75	.44	.13	3.4
100	424	.44	.13	3.4

NORMALIZED VELOCITY PROFILE B33113 REF. VEL. 32.6 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	3	.41	.13	3.4
2	7.5	.41	.13	3.4
3	11.75	.41	.13	3.4
4	16	.41	.13	3.4
5	20.25	.41	.13	3.4
6	24.5	.41	.13	3.4
7	28.75	.41	.13	3.4
8	33	.41	.13	3.4
9	37.25	.41	.13	3.4
10	41.5	.41	.13	3.4
11	45.75	.41	.13	3.4
12	50	.41	.13	3.4
13	54.25	.41	.13	3.4
14	58.5	.41	.13	3.4
15	62.75	.41	.13	3.4
16	67	.41	.13	3.4
17	71.25	.41	.13	3.4
18	75.5	.41	.13	3.4
19	79.75	.41	.13	3.4
20	84	.41	.13	3.4
21	88.25	.41	.13	3.4
22	92.5	.41	.13	3.4
23	96.75	.41	.13	3.4
24	101	.41	.13	3.4
25	105.25	.41	.13	3.4
26	109.5	.41	.13	3.4
27	113.75	.41	.13	3.4
28	118	.41	.13	3.4
29	122.25	.41	.13	3.4
30	126.5	.41	.13	3.4
31	130.75	.41	.13	3.4
32	135	.41	.13	3.4
33	139.25	.41	.13	3.4
34	143.5	.41	.13	3.4
35	147.75	.41	.13	3.4
36	152	.41	.13	3.4
37	156.25	.41	.13	3.4
38	160.5	.41	.13	3.4
39	164.75	.41	.13	3.4
40	169	.41	.13	3.4
41	173.25	.41	.13	3.4
42	177.5	.41	.13	3.4
43	181.75	.41	.13	3.4
44	186	.41	.13	3.4
45	190.25	.41	.13	3.4
46	194.5	.41	.13	3.4
47	198.75	.41	.13	3.4
48	203	.41	.13	3.4
49	207.25	.41	.13	3.4
50	211.5	.41	.13	3.4
51	215.75	.41	.13	3.4
52	220	.41	.13	3.4
53	224.25	.41	.13	3.4
54	228.5	.41	.13	3.4
55	232.75	.41	.13	3.4
56	237	.41	.13	3.4
57	241.25	.41	.13	3.4
58	245.5	.41	.13	3.4
59	249.75	.41	.13	3.4
60	254	.41	.13	3.4
61	258.25	.41	.13	3.4
62	262.5	.41	.13	3.4
63	266.75	.41	.13	3.4
64	271	.41	.13	3.4
65	275.25	.41	.13	3.4
66	279.5	.41	.13	3.4
67	283.75	.41	.13	3.4
68	288	.41	.13	3.4
69	292.25	.41	.13	3.4
70	296.5	.41	.13	3.4
71	300.75	.41	.13	3.4
72	305	.41	.13	3.4
73	309.25	.41	.13	3.4
74	313.5	.41	.13	3.4
75	317.75	.41	.13	3.4
76	322	.41	.13	3.4
77	326.25	.41	.13	3.4
78	330.5	.41	.13	3.4
79	334.75	.41	.13	3.4
80	339	.41	.13	3.4
81	343.25	.41	.13	3.4
82	347.5	.41	.13	3.4
83	351.75	.41	.13	3.4
84	356	.41	.13	3.4
85	360.25	.41	.13	3.4
86	364.5	.41	.13	3.4
87	368.75	.41	.13	3.4
88	373	.41	.13	3.4
89	377.25	.41	.13	3.4
90	381.5	.41	.13	3.4
91	385.75	.41	.13	3.4
92	390	.41	.13	3.4
93	394.25	.41	.13	3.4
94	398.5	.41	.13	3.4
95	402.75	.41	.13	3.4
96	407	.41	.13	3.4
97	411.25	.41	.13	3.4
98	415.5	.41	.13	3.4
99	419.75	.41	.13	3.4
100	424	.41	.13	3.4

NORMALIZED VELOCITY PROFILE B33123 REF. VEL. 32.8 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	3	.42	.11	3.5
2	7.5	.42	.11	3.5
3	11.75	.42	.11	3.5
4	16	.42	.11	3.5
5	20.25	.42	.11	3.5
6	24.5	.42	.11	3.5
7	28.75	.42	.11	3.5
8	33	.42	.11	3.5
9	37.25	.42	.11	3.5
10	41.5	.42	.11	3.5
11	45.75	.42	.11	3.5
12	50	.42	.11	3.5
13	54.25	.42	.11	3.5
14	58.5	.42	.11	3.5
15	62.75	.42	.11	3.5
16	67	.42	.11	3.5
17	71.25	.42	.11	3.5
18	75.5	.42	.11	3.5
19	79.75	.42	.11	3.5
20	84	.42	.11	3.5
21	88.25	.42	.11	3.5
22	92.5	.42	.11	3.5
23	96.75	.42	.11	3.5
24	101	.42	.11	3.5
25	105.25	.42	.11	3.5
26	109.5	.42	.11	3.5
27	113.75	.42	.11	3.5
28	118	.42	.11	3.5
29	122.25	.42	.11	3.5
30	126.5	.42	.11	3.5
31	130.75	.42	.11	3.5
32	135	.42	.11	3.5
33	139.25	.42	.11	3.5
34	143.5	.42	.11	3.5
35	147.75	.42	.11	3.5
36	152	.42	.11	3.5
37	156.25	.42	.11	3.5
38	160.5	.42	.11	3.5
39	164.75	.42	.11	3.5
40	169	.42	.11	3.5
41	173.25	.42	.11	3.5
42	177.5	.42	.11	3.5
43	181.75	.42	.11	3.5
44	186	.42	.11	3.5
45	190.25	.42	.11	3.5
46	194.5	.42	.11	3.5
47	198.75	.42	.11	3.5
48	203	.42	.11	3.5
49	207.25	.42	.11	3.5
50	211.5	.42	.11	3.5
51	215.75	.42	.11	3.5
52	220	.42	.11	3.5
53	224.25	.42	.11	3.5
54	228.5	.42	.11	3.5
55	232.75	.42	.11	3.5
56	237	.42	.11	3.5
57	241.25	.42	.11	3.5
58	245.5	.42	.11	3.5
59	249.75	.42	.11	3.5
60	254	.42	.11	3.5
61	258.25	.42	.11	3.5
62	262.5	.42	.11	3.5
63	266.75	.42	.11	3.5
64	271	.42	.11	3.5
65	275.25	.42	.11	3.5
66	279.5	.42	.11	3.5
67	28			

NORMALIZED VELOCITY PROFILE 032133 REF. VEL. 32.8 FPS

TEST ZONE - 8 WIND DIRECTION - NU
TIME OF DAY - NOON POSITION OF PROFILE - 3
FENCE CONFIGURATION - 15FT AT 32FT + SHORT CORNER FENCE

DATA POINT	HEIGHT (INCHES)	U(UMEF)	U(UMEF)	TURB INT (PERCENT)
1	10	1.00	1.00	10.00
2	20	1.50	1.50	15.00
3	30	2.00	2.00	20.00
4	40	2.50	2.50	25.00
5	50	3.00	3.00	30.00
6	60	3.50	3.50	35.00
7	70	4.00	4.00	40.00
8	80	4.50	4.50	45.00
9	90	5.00	5.00	50.00
10	100	5.50	5.50	55.00
11	110	6.00	6.00	60.00
12	120	6.50	6.50	65.00
13	130	7.00	7.00	70.00
14	140	7.50	7.50	75.00
15	150	8.00	8.00	80.00
16	160	8.50	8.50	85.00
17	170	9.00	9.00	90.00
18	180	9.50	9.50	95.00
19	190	10.00	10.00	100.00
20	200	10.50	10.50	105.00
21	210	11.00	11.00	110.00
22	220	11.50	11.50	115.00
23	230	12.00	12.00	120.00
24	240	12.50	12.50	125.00
25	250	13.00	13.00	130.00
26	260	13.50	13.50	135.00
27	270	14.00	14.00	140.00
28	280	14.50	14.50	145.00
29	290	15.00	15.00	150.00
30	300	15.50	15.50	155.00
31	310	16.00	16.00	160.00
32	320	16.50	16.50	165.00
33	330	17.00	17.00	170.00
34	340	17.50	17.50	175.00
35	350	18.00	18.00	180.00
36	360	18.50	18.50	185.00
37	370	19.00	19.00	190.00
38	380	19.50	19.50	195.00
39	390	20.00	20.00	200.00
40	400	20.50	20.50	205.00
41	410	21.00	21.00	210.00
42	420	21.50	21.50	215.00
43	430	22.00	22.00	220.00
44	440	22.50	22.50	225.00
45	450	23.00	23.00	230.00
46	460	23.50	23.50	235.00
47	470	24.00	24.00	240.00
48	480	24.50	24.50	245.00
49	490	25.00	25.00	250.00
50	500	25.50	25.50	255.00
51	510	26.00	26.00	260.00
52	520	26.50	26.50	265.00
53	530	27.00	27.00	270.00
54	540	27.50	27.50	275.00
55	550	28.00	28.00	280.00
56	560	28.50	28.50	285.00
57	570	29.00	29.00	290.00
58	580	29.50	29.50	295.00
59	590	30.00	30.00	300.00
60	600	30.50	30.50	305.00
61	610	31.00	31.00	310.00
62	620	31.50	31.50	315.00
63	630	32.00	32.00	320.00
64	640	32.50	32.50	325.00
65	650	33.00	33.00	330.00
66	660	33.50	33.50	335.00
67	670	34.00	34.00	340.00
68	680	34.50	34.50	345.00
69	690	35.00	35.00	350.00
70	700	35.50	35.50	355.00
71	710	36.00	36.00	360.00
72	720	36.50	36.50	365.00
73	730	37.00	37.00	370.00
74	740	37.50	37.50	375.00
75	750	38.00	38.00	380.00
76	760	38.50	38.50	385.00
77	770	39.00	39.00	390.00
78	780	39.50	39.50	395.00
79	790	40.00	40.00	400.00
80	800	40.50	40.50	405.00
81	810	41.00	41.00	410.00
82	820	41.50	41.50	415.00
83	830	42.00	42.00	420.00
84	840	42.50	42.50	425.00
85	850	43.00	43.00	430.00
86	860	43.50	43.50	435.00
87	870	44.00	44.00	440.00
88	880	44.50	44.50	445.00
89	890	45.00	45.00	450.00
90	900	45.50	45.50	455.00
91	910	46.00	46.00	460.00
92	920	46.50	46.50	465.00
93	930	47.00	47.00	470.00
94	940	47.50	47.50	475.00
95	950	48.00	48.00	480.00
96	960	48.50	48.50	485.00
97	970	49.00	49.00	490.00
98	980	49.50	49.50	495.00
99	990	50.00	50.00	500.00
100	1000	50.50	50.50	505.00

NORMALIZED VELOCITY PROFILE B33104 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	0.000	0.000	0.000
2	45	0.000	0.000	0.000
3	40	0.000	0.000	0.000
4	35	0.000	0.000	0.000
5	30	0.000	0.000	0.000
6	25	0.000	0.000	0.000
7	20	0.000	0.000	0.000
8	15	0.000	0.000	0.000
9	10	0.000	0.000	0.000
10	5	0.000	0.000	0.000

NORMALIZED VELOCITY PROFILE B33114 REF. VEL. 31.8 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	0.000	0.000	0.000
2	45	0.000	0.000	0.000
3	40	0.000	0.000	0.000
4	35	0.000	0.000	0.000
5	30	0.000	0.000	0.000
6	25	0.000	0.000	0.000
7	20	0.000	0.000	0.000
8	15	0.000	0.000	0.000
9	10	0.000	0.000	0.000
10	5	0.000	0.000	0.000

NORMALIZED VELOCITY PROFILE B33124 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	0.000	0.000	0.000
2	45	0.000	0.000	0.000
3	40	0.000	0.000	0.000
4	35	0.000	0.000	0.000
5	30	0.000	0.000	0.000
6	25	0.000	0.000	0.000
7	20	0.000	0.000	0.000
8	15	0.000	0.000	0.000
9	10	0.000	0.000	0.000
10	5	0.000	0.000	0.000

NORMALIZED VELOCITY PROFILE B33134 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U/MAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	0.000	0.000	0.000
2	45	0.000	0.000	0.000
3	40	0.000	0.000	0.000
4	35	0.000	0.000	0.000
5	30	0.000	0.000	0.000
6	25	0.000	0.000	0.000
7	20	0.000	0.000	0.000
8	15	0.000	0.000	0.000
9	10	0.000	0.000	0.000
10	5	0.000	0.000	0.000

NORMALIZED VELOCITY PROFILE B33103 REF. VEL. 31.6 FPS

TEST ZONE = 0 WIND DIRECTION = NW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.22	.09	31.6
2	75	.29	.10	31.6
3	97	.31	.11	31.6
4	111	.32	.11	31.6
5	122	.33	.12	31.6
6	134	.34	.12	31.6
7	144	.35	.13	31.6
8	153	.36	.13	31.6
9	161	.37	.14	31.6
10	169	.38	.14	31.6
11	177	.39	.15	31.6
12	185	.40	.15	31.6
13	193	.41	.16	31.6
14	201	.42	.16	31.6
15	209	.43	.17	31.6
16	217	.44	.17	31.6
17	225	.45	.18	31.6
18	233	.46	.18	31.6
19	241	.47	.19	31.6
20	249	.48	.19	31.6
21	257	.49	.20	31.6
22	265	.50	.20	31.6
23	273	.51	.21	31.6
24	281	.52	.21	31.6
25	289	.53	.22	31.6
26	297	.54	.22	31.6
27	305	.55	.23	31.6
28	313	.56	.23	31.6
29	321	.57	.24	31.6
30	329	.58	.24	31.6
31	337	.59	.25	31.6
32	345	.60	.25	31.6
33	353	.61	.26	31.6
34	361	.62	.26	31.6
35	369	.63	.27	31.6
36	377	.64	.27	31.6
37	385	.65	.28	31.6
38	393	.66	.28	31.6
39	401	.67	.29	31.6
40	409	.68	.29	31.6
41	417	.69	.30	31.6
42	425	.70	.30	31.6
43	433	.71	.31	31.6
44	441	.72	.31	31.6
45	449	.73	.32	31.6
46	457	.74	.32	31.6
47	465	.75	.33	31.6
48	473	.76	.33	31.6
49	481	.77	.34	31.6
50	489	.78	.34	31.6
51	497	.79	.35	31.6
52	505	.80	.35	31.6
53	513	.81	.36	31.6
54	521	.82	.36	31.6
55	529	.83	.37	31.6
56	537	.84	.37	31.6
57	545	.85	.38	31.6
58	553	.86	.38	31.6
59	561	.87	.39	31.6
60	569	.88	.39	31.6
61	577	.89	.40	31.6
62	585	.90	.40	31.6
63	593	.91	.41	31.6
64	601	.92	.41	31.6
65	609	.93	.42	31.6
66	617	.94	.42	31.6
67	625	.95	.43	31.6
68	633	.96	.43	31.6
69	641	.97	.44	31.6
70	649	.98	.44	31.6
71	657	.99	.45	31.6
72	665	1.00	.45	31.6
73	673	1.01	.46	31.6
74	681	1.02	.46	31.6
75	689	1.03	.47	31.6
76	697	1.04	.47	31.6
77	705	1.05	.48	31.6
78	713	1.06	.48	31.6
79	721	1.07	.49	31.6
80	729	1.08	.49	31.6
81	737	1.09	.50	31.6
82	745	1.10	.50	31.6
83	753	1.11	.51	31.6
84	761	1.12	.51	31.6
85	769	1.13	.52	31.6
86	777	1.14	.52	31.6
87	785	1.15	.53	31.6
88	793	1.16	.53	31.6
89	801	1.17	.54	31.6
90	809	1.18	.54	31.6
91	817	1.19	.55	31.6
92	825	1.20	.55	31.6
93	833	1.21	.56	31.6
94	841	1.22	.56	31.6
95	849	1.23	.57	31.6
96	857	1.24	.57	31.6
97	865	1.25	.58	31.6
98	873	1.26	.58	31.6
99	881	1.27	.59	31.6
100	889	1.28	.59	31.6
101	897	1.29	.60	31.6
102	905	1.30	.60	31.6
103	913	1.31	.61	31.6
104	921	1.32	.61	31.6
105	929	1.33	.62	31.6
106	937	1.34	.62	31.6
107	945	1.35	.63	31.6
108	953	1.36	.63	31.6
109	961	1.37	.64	31.6
110	969	1.38	.64	31.6
111	977	1.39	.65	31.6
112	985	1.40	.65	31.6
113	993	1.41	.66	31.6
114	1001	1.42	.66	31.6
115	1009	1.43	.67	31.6
116	1017	1.44	.67	31.6
117	1025	1.45	.68	31.6
118	1033	1.46	.68	31.6
119	1041	1.47	.69	31.6
120	1049	1.48	.69	31.6
121	1057	1.49	.70	31.6
122	1065	1.50	.70	31.6
123	1073	1.51	.71	31.6
124	1081	1.52	.71	31.6
125	1089	1.53	.72	31.6
126	1097	1.54	.72	31.6
127	1105	1.55	.73	31.6
128	1113	1.56	.73	31.6
129	1121	1.57	.74	31.6
130	1129	1.58	.74	31.6
131	1137	1.59	.75	31.6
132	1145	1.60	.75	31.6
133	1153	1.61	.76	31.6
134	1161	1.62	.76	31.6
135	1169	1.63	.77	31.6
136	1177	1.64	.77	31.6
137	1185	1.65	.78	31.6
138	1193	1.66	.78	31.6
139	1201	1.67	.79	31.6
140	1209	1.68	.79	31.6
141	1217	1.69	.80	31.6
142	1225	1.70	.80	31.6
143	1233	1.71	.81	31.6
144	1241	1.72	.81	31.6
145	1249	1.73	.82	31.6
146	1257	1.74	.82	31.6
147	1265	1.75	.83	31.6
148	1273	1.76	.83	31.6
149	1281	1.77	.84	31.6
150	1289	1.78	.84	31.6
151	1297	1.79	.85	31.6
152	1305	1.80	.85	31.6
153	1313	1.81	.86	31.6
154	1321	1.82	.86	31.6
155	1329	1.83	.87	31.6
156	1337	1.84	.87	31.6
157	1345	1.85	.88	31.6
158	1353	1.86	.88	31.6
159	1361	1.87	.89	31.6
160	1369	1.88	.89	31.6
161	1377	1.89	.90	31.6
162	1385	1.90	.90	31.6
163	1393	1.91	.91	31.6
164	1401	1.92	.91	31.6
165	1409	1.93	.92	31.6
166	1417	1.94	.92	31.6
167	1425	1.95	.93	31.6
168	1433	1.96	.93	31.6
169	1441	1.97	.94	31.6
170	1449	1.98	.94	31.6
171	1457	1.99	.95	31.6
172	1465	2.00	.95	31.6
173	1473	2.01	.96	31.6
174	1481	2.02	.96	31.6
175	1489	2.03	.97	31.6
176	1497	2.04	.97	31.6
177	1505	2.05	.98	31.6
178	1513	2.06	.98	31.6
179	1521	2.07	.99	31.6
180	1529	2.08	.99	31.6
181	1537	2.09	1.00	31.6
182	1545	2.10	1.00	31.6
183	1553	2.11	1.01	31.6
184	1561	2.12	1.01	31.6
185	1569	2.13	1.02	31.6
186	1577	2.14	1.02	31.6
187	1585	2.15	1.03	31.6
188	1593	2.16	1.03	31.6
189	1601	2.17	1.04	31.6
190	1609	2.18	1.04	31.6
191	1617	2.19	1.05	31.6
192	1625	2.20	1.05	31.6
193	1633	2.21	1.06	31.6
194	1641	2.22	1.06	31.6
195	1649	2.23	1.07	31.6
196	1657	2.24	1.07	31.6
197	1665	2.25	1.08	31.6
198	1673	2.26	1.08	31.6
199	1681	2.27	1.09	31.6
200	1689	2.28	1.09	31.6
201	1697	2.29	1.10	31.6
202	1705	2.30	1.10	31.6
203	1713	2.31	1.11	31.6
204	1721	2.32	1.11	31.6
205	1729	2.33	1.12	31.6
206	1737	2.34	1.12	31.6
207	1745	2.35	1.13	31.6
208	1753	2.36	1.13	31.6
209	1761	2.37	1.14	31.6
210	1769	2.38	1.14	31.6
211	1777	2.39	1.15	31.6
212	1785	2.40	1.15	31.6
213	1793	2.41	1.16	31.6
214	1801	2.42	1.16	31.6
215	1809	2.43	1.17	31.6
216	1817	2.44	1.17	31.6
217	1825	2.45	1.18	31.6
218	1833	2.46	1.18	31.6
219	1841	2.47	1.19	31.6
220	1849	2.48	1.19	31.6
221	1857	2.49	1.20	31.6
222	1865	2.50	1.20	31.6
223	1873	2.51	1.21	31.6
224	1881	2.52	1.21	31.6
225	1889	2.53	1.22	31.6
226	1897	2.54	1.22	31.6
227	1905	2.55	1.23	31.6
228	1913	2.56	1.23	31.6
229	1921	2.57	1.24	31.6
230	1929	2.58	1.24	31.6
231	1937	2.59	1.25	31.6
232	1945	2.60	1.25	31.6
233	1953	2.61	1.26	31.6
234	1961	2.62	1.26	31.6
235	1969	2.63	1.27	31.6
236	1977	2.64	1.27	31.6
237	1985	2.65	1.28	31.6
238	1993	2.66	1.28	31.6
239	2001	2.67	1.29	31.6
240	2009	2.68	1.29	31.6
241	2017	2.69	1.30	31.6
242	2025	2.70	1.30	31.6
243	2033	2.71	1.31	31.6
244	2041	2.72	1.31	31.6
245	2049	2.73	1.32	31.6
246	2057	2.74	1.32	31.6
247	2065	2.75	1.33	31.6
248	2073	2.76	1.33	31.6
249	2081	2.77	1.34	31.6
250	2089	2.78	1.34	31.6
251	2097	2.79	1.35	31.6
252	2105	2.80	1.35	31.6
253	2113	2.81	1.36	31.6
254	2121	2.82	1.36	31.6
255	2129	2.83	1.37	31.6
256	2137	2.84	1.37	31.6
257	2145	2.85	1.38	31.6
258	2153	2.86	1.38	31.6
259	2161	2.87	1.39	31.6
260	2169	2.88	1.39	31.6
261	2177	2.89	1.40	31.6
262	2185	2.90	1.40	31.6
263				

NORMALIZED VELOCITY PROFILE 843103 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NNE
TIME OF DAY = NOON POSITION OF PROFILE = 3
FENCE CONFIGURATION = NO FENCE

DATA POINT HEIGHT (INCHES) UMEAN (U/REF) URMS (U/REF) TURB INT (PERCENT)

NORMALIZED VELOCITY PROFILE 843102 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NNE
TIME OF DAY = NOON POSITION OF PROFILE = 3
FENCE CONFIGURATION = NO FENCE

DATA POINT HEIGHT (INCHES) UMEAN (U/REF) URMS (U/REF) TURB INT (PERCENT)

NORMALIZED VELOCITY PROFILE 843125 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NNE
TIME OF DAY = NOON POSITION OF PROFILE = 3
FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT HEIGHT (INCHES) UMEAN (U/REF) URMS (U/REF) TURB INT (PERCENT)

NORMALIZED VELOCITY PROFILE 843125 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NNE
TIME OF DAY = NOON POSITION OF PROFILE = 3
FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT HEIGHT (INCHES) UMEAN (U/REF) URMS (U/REF) TURB INT (PERCENT)

NORMALIZED VELOCITY PROFILE B43104 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NNE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.31	.10	31
2	75	.41	.13	41
3	100	.51	.17	51
4	125	.61	.20	61
5	150	.71	.24	71
6	175	.81	.28	81
7	200	.91	.32	91
8	225	1.01	.36	101
9	250	1.11	.40	111
10	275	1.21	.44	121
11	300	1.31	.48	131
12	325	1.41	.52	141
13	350	1.51	.56	151
14	375	1.61	.60	161
15	400	1.71	.64	171
16	425	1.81	.68	181
17	450	1.91	.72	191
18	475	2.01	.76	201
19	500	2.11	.80	211
20	525	2.21	.84	221
21	550	2.31	.88	231
22	575	2.41	.92	241
23	600	2.51	.96	251
24	625	2.61	1.00	261
25	650	2.71	1.04	271
26	675	2.81	1.08	281
27	700	2.91	1.12	291
28	725	3.01	1.16	301
29	750	3.11	1.20	311
30	775	3.21	1.24	321
31	800	3.31	1.28	331
32	825	3.41	1.32	341
33	850	3.51	1.36	351
34	875	3.61	1.40	361
35	900	3.71	1.44	371
36	925	3.81	1.48	381
37	950	3.91	1.52	391
38	975	4.01	1.56	401
39	1000	4.11	1.60	411
40	1025	4.21	1.64	421
41	1050	4.31	1.68	431
42	1075	4.41	1.72	441
43	1100	4.51	1.76	451
44	1125	4.61	1.80	461
45	1150	4.71	1.84	471
46	1175	4.81	1.88	481
47	1200	4.91	1.92	491
48	1225	5.01	1.96	501
49	1250	5.11	2.00	511
50	1275	5.21	2.04	521
51	1300	5.31	2.08	531
52	1325	5.41	2.12	541
53	1350	5.51	2.16	551
54	1375	5.61	2.20	561
55	1400	5.71	2.24	571
56	1425	5.81	2.28	581
57	1450	5.91	2.32	591
58	1475	6.01	2.36	601
59	1500	6.11	2.40	611
60	1525	6.21	2.44	621
61	1550	6.31	2.48	631
62	1575	6.41	2.52	641
63	1600	6.51	2.56	651
64	1625	6.61	2.60	661
65	1650	6.71	2.64	671
66	1675	6.81	2.68	681
67	1700	6.91	2.72	691
68	1725	7.01	2.76	701
69	1750	7.11	2.80	711
70	1775	7.21	2.84	721
71	1800	7.31	2.88	731
72	1825	7.41	2.92	741
73	1850	7.51	2.96	751
74	1875	7.61	3.00	761
75	1900	7.71	3.04	771
76	1925	7.81	3.08	781
77	1950	7.91	3.12	791
78	1975	8.01	3.16	801
79	2000	8.11	3.20	811
80	2025	8.21	3.24	821
81	2050	8.31	3.28	831
82	2075	8.41	3.32	841
83	2100	8.51	3.36	851
84	2125	8.61	3.40	861
85	2150	8.71	3.44	871
86	2175	8.81	3.48	881
87	2200	8.91	3.52	891
88	2225	9.01	3.56	901
89	2250	9.11	3.60	911
90	2275	9.21	3.64	921
91	2300	9.31	3.68	931
92	2325	9.41	3.72	941
93	2350	9.51	3.76	951
94	2375	9.61	3.80	961
95	2400	9.71	3.84	971
96	2425	9.81	3.88	981
97	2450	9.91	3.92	991
98	2475	10.01	3.96	1001
99	2500	10.11	4.00	1011
100	2525	10.21	4.04	1021
101	2550	10.31	4.08	1031
102	2575	10.41	4.12	1041
103	2600	10.51	4.16	1051
104	2625	10.61	4.20	1061
105	2650	10.71	4.24	1071
106	2675	10.81	4.28	1081
107	2700	10.91	4.32	1091
108	2725	11.01	4.36	1101
109	2750	11.11	4.40	1111
110	2775	11.21	4.44	1121
111	2800	11.31	4.48	1131
112	2825	11.41	4.52	1141
113	2850	11.51	4.56	1151
114	2875	11.61	4.60	1161
115	2900	11.71	4.64	1171
116	2925	11.81	4.68	1181
117	2950	11.91	4.72	1191
118	2975	12.01	4.76	1201
119	3000	12.11	4.80	1211
120	3025	12.21	4.84	1221
121	3050	12.31	4.88	1231
122	3075	12.41	4.92	1241
123	3100	12.51	4.96	1251
124	3125	12.61	5.00	1261
125	3150	12.71	5.04	1271
126	3175	12.81	5.08	1281
127	3200	12.91	5.12	1291
128	3225	13.01	5.16	1301
129	3250	13.11	5.20	1311
130	3275	13.21	5.24	1321
131	3300	13.31	5.28	1331
132	3325	13.41	5.32	1341
133	3350	13.51	5.36	1351
134	3375	13.61	5.40	1361
135	3400	13.71	5.44	1371
136	3425	13.81	5.48	1381
137	3450	13.91	5.52	1391
138	3475	14.01	5.56	1401
139	3500	14.11	5.60	1411
140	3525	14.21	5.64	1421
141	3550	14.31	5.68	1431
142	3575	14.41	5.72	1441
143	3600	14.51	5.76	1451
144	3625	14.61	5.80	1461
145	3650	14.71	5.84	1471
146	3675	14.81	5.88	1481
147	3700	14.91	5.92	1491
148	3725	15.01	5.96	1501
149	3750	15.11	6.00	1511
150	3775	15.21	6.04	1521
151	3800	15.31	6.08	1531
152	3825	15.41	6.12	1541
153	3850	15.51	6.16	1551
154	3875	15.61	6.20	1561
155	3900	15.71	6.24	1571
156	3925	15.81	6.28	1581
157	3950	15.91	6.32	1591
158	3975	16.01	6.36	1601
159	4000	16.11	6.40	1611
160	4025	16.21	6.44	1621
161	4050	16.31	6.48	1631
162	4075	16.41	6.52	1641
163	4100	16.51	6.56	1651
164	4125	16.61	6.60	1661
165	4150	16.71	6.64	1671
166	4175	16.81	6.68	1681
167	4200	16.91	6.72	1691
168	4225	17.01	6.76	1701
169	4250	17.11	6.80	1711
170	4275	17.21	6.84	1721
171	4300	17.31	6.88	1731
172	4325	17.41	6.92	1741
173	4350	17.51	6.96	1751
174	4375	17.61	7.00	1761
175	4400	17.71	7.04	1771
176	4425	17.81	7.08	1781
177	4450	17.91	7.12	1791
178	4475	18.01	7.16	1801
179	4500	18.11	7.20	1811
180	4525	18.21	7.24	1821
181	4550	18.31	7.28	1831
182	4575	18.41	7.32	1841
183	4600	18.51	7.36	1851
184	4625	18.61	7.40	1861
185	4650	18.71	7.44	1871
186	4675	18.81	7.48	1881
187	4700	18.91	7.52	1891
188	4725	19.01	7.56	1901
189	4750	19.11	7.60	1911
190	4775	19.21	7.64	1921
191	4800	19.31	7.68	1931
192	4825	19.41	7.72	1941
193	4850	19.51	7.76	1951
194	4875	19.61	7.80	1961
195	4900	19.71	7.84	1971
196	4925	19.81	7.88	1981
197	4950	19.91	7.92	1991
198	4975	20.01	7.96	2001
199	5000	20.11	8.00	2011
200	5025	20.21	8.04	2021
201	5050	20.31	8.08	2031
202	5075	20.41	8.12	2041
203	5100	20.51	8.16	2051
204	5125	20.61	8.20	2061
205	5150	20.71	8.24	2071
206	5175	20.81	8.28	2081
207	5200	20.91	8.32	2091
208	5225	21.01	8.36	2101
209	5250	21.11	8.40	2111
210	5275	21.21	8.44	2121
211	5300	21.31	8.48	2131
212	5325	21.41	8.52	2141
213	5350	21.51	8.56	2151
214	5375	21.61	8.60	2161
215	5400	21.71	8.64	2171
216	5425	21.81	8.68	2181
217	5450	21.91	8.72	2191
218	5475	22.01	8.76	2201
219	5500	22.11	8.80	2211
220	5525	22.21	8.84	2221
221	5550	22.31	8.88	2231
222	5575	22.41	8.92	2241
223	5600	22.51	8.96	2251
224	5625	22.61	9.00	2261
225	5650	22.71	9.04	2271
226	5675	22.81	9.08	2281
227	5700	22.91	9.12	2291
228	5725	23.01	9.16	2301
229	5750	23.11	9.20	2311
230	5775	23.21	9.24	2321
231	5800	23.31	9.28	2331
232	5825	23.41	9.32	2341
233	5850	23.51	9.36	2351
234	5875	23.61	9.40	2361
235	5900	23.71	9.44	2371
236	5925	23.81	9.48	2381
237	5950	23.91	9.52	2391
238	5975	24.01	9.56	2401
239	6000	24.11	9.60	2411
240	6025	24.21	9.64	2421
241	6050	24.31	9.68	2431
242	6075	24.41	9.72	2441
243	6100	24.51	9.76	2451
244	6125	24.61	9.80	2461
245	6150	24.71	9.84	2471
246	6175	24.81	9.88	2481
247	6200	24.91	9.92	2491
248	6225	25.01	9.96	2501
249	6250	25.11	10.00	2511
250	6275	25.21	10.04	2521
251	6300	25.31	10.08	

NORMALIZED VELOCITY PROFILE B52101 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.43	.09	21.1
2	70	.47	.10	20.1
3	90	.50	.10	20.2
4	110	.54	.10	22.2
5	130	.56	.09	26.6
6	150	.60	.10	16.2
7	170	.63	.09	14.4
8	190	.66	.09	14.4
9	210	.69	.09	14.4
10	230	.71	.09	14.4
11	250	.74	.09	14.4
12	270	.77	.09	14.4
13	290	.80	.09	14.4
14	310	.83	.09	14.4
15	330	.86	.09	14.4
16	350	.89	.09	14.4
17	370	.92	.09	14.4
18	390	.95	.09	14.4
19	410	.98	.09	14.4
20	430	1.01	.09	14.4

NORMALIZED VELOCITY PROFILE B52102 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	15.8
2	70	.44	.07	15.8
3	90	.43	.07	15.8
4	110	.44	.07	16.3
5	130	.44	.08	18.3
6	150	.47	.09	20.0
7	170	.47	.09	18.3
8	190	.53	.09	18.3
9	210	.53	.11	19.4
10	230	.53	.11	18.3
11	250	.53	.10	18.3
12	270	.53	.11	18.3
13	290	.53	.10	18.3
14	310	.51	.08	18.3
15	330	.51	.08	18.3
16	350	.53	.07	18.3
17	370	.53	.06	18.3

NORMALIZED VELOCITY PROFILE B52103 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	17.7
2	70	.43	.07	17.7
3	90	.43	.07	17.7
4	110	.43	.08	17.7
5	130	.43	.09	17.7
6	150	.43	.09	17.7
7	170	.43	.10	17.7
8	190	.43	.10	17.7
9	210	.43	.11	17.7
10	230	.43	.11	17.7
11	250	.43	.12	17.7
12	270	.43	.12	17.7
13	290	.43	.12	17.7
14	310	.43	.12	17.7
15	330	.43	.12	17.7
16	350	.43	.12	17.7
17	370	.43	.12	17.7

NORMALIZED VELOCITY PROFILE B52104 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.41	.08	11.1
2	70	.41	.08	11.1
3	90	.43	.08	11.1
4	110	.44	.10	11.1
5	130	.46	.10	11.1
6	150	.48	.10	11.1
7	170	.48	.09	11.1
8	190	.51	.09	11.1
9	210	.54	.10	11.1
10	230	.56	.10	11.1
11	250	.60	.10	11.1
12	270	.63	.11	11.1
13	290	.66	.11	11.1
14	310	.72	.11	11.1
15	330	.77	.11	11.1
16	350	.84	.10	11.1
17	370	.86	.08	11.1

NORMALIZED VELOCITY PROFILE B53101 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.42	.09	21.1
2	44	.09	.09	20.0
3	40	.09	.09	19.0
4	36	.09	.09	18.0
5	32	.09	.09	17.0
6	28	.09	.09	16.0
7	24	.09	.09	15.0
8	20	.09	.09	14.0
9	16	.09	.09	13.0
10	12	.09	.09	12.0
11	8	.09	.09	11.0
12	4	.09	.09	10.0
13	0	.09	.09	9.0
14	0	.09	.09	8.0
15	0	.09	.09	7.0
16	0	.09	.09	6.0
17	0	.09	.09	5.0

NORMALIZED VELOCITY PROFILE B53111 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.09	.04	13.0
2	44	.09	.04	12.0
3	40	.09	.04	11.0
4	36	.09	.04	10.0
5	32	.09	.04	9.0
6	28	.09	.04	8.0
7	24	.09	.04	7.0
8	20	.09	.04	6.0
9	16	.09	.04	5.0
10	12	.09	.04	4.0
11	8	.09	.04	3.0
12	4	.09	.04	2.0
13	0	.09	.04	1.0
14	0	.09	.04	0.0
15	0	.09	.04	0.0
16	0	.09	.04	0.0
17	0	.09	.04	0.0

NORMALIZED VELOCITY PROFILE B53121 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.09	.00	17.0
2	44	.09	.00	16.0
3	40	.09	.00	15.0
4	36	.09	.00	14.0
5	32	.09	.00	13.0
6	28	.09	.00	12.0
7	24	.09	.00	11.0
8	20	.09	.00	10.0
9	16	.09	.00	9.0
10	12	.09	.00	8.0
11	8	.09	.00	7.0
12	4	.09	.00	6.0
13	0	.09	.00	5.0
14	0	.09	.00	4.0
15	0	.09	.00	3.0
16	0	.09	.00	2.0
17	0	.09	.00	1.0

NORMALIZED VELOCITY PROFILE B53131 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.09	.06	11.0
2	44	.09	.06	10.0
3	40	.09	.06	9.0
4	36	.09	.06	8.0
5	32	.09	.06	7.0
6	28	.09	.06	6.0
7	24	.09	.06	5.0
8	20	.09	.06	4.0
9	16	.09	.06	3.0
10	12	.09	.06	2.0
11	8	.09	.06	1.0
12	4	.09	.06	0.0
13	0	.09	.06	0.0
14	0	.09	.06	0.0
15	0	.09	.06	0.0
16	0	.09	.06	0.0
17	0	.09	.06	0.0

NORMALIZED VELOCITY PROFILE B53102 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.07	00
2	44	.44	.07	00
3	41	.44	.07	00
4	40	.44	.07	00
5	39	.44	.07	00
6	38	.44	.07	00
7	37	.44	.07	00
8	36	.44	.07	00
9	35	.44	.07	00
10	34	.44	.07	00
11	33	.44	.07	00
12	32	.44	.07	00
13	31	.44	.07	00
14	30	.44	.07	00
15	29	.44	.07	00
16	28	.44	.07	00
17	27	.44	.07	00
18	26	.44	.07	00
19	25	.44	.07	00
20	24	.44	.07	00
21	23	.44	.07	00
22	22	.44	.07	00
23	21	.44	.07	00
24	20	.44	.07	00
25	19	.44	.07	00
26	18	.44	.07	00
27	17	.44	.07	00
28	16	.44	.07	00
29	15	.44	.07	00
30	14	.44	.07	00
31	13	.44	.07	00
32	12	.44	.07	00
33	11	.44	.07	00
34	10	.44	.07	00
35	9	.44	.07	00
36	8	.44	.07	00
37	7	.44	.07	00
38	6	.44	.07	00
39	5	.44	.07	00
40	4	.44	.07	00
41	3	.44	.07	00
42	2	.44	.07	00
43	1	.44	.07	00

NORMALIZED VELOCITY PROFILE B53112 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.07	00
2	44	.44	.07	00
3	41	.44	.07	00
4	40	.44	.07	00
5	39	.44	.07	00
6	38	.44	.07	00
7	37	.44	.07	00
8	36	.44	.07	00
9	35	.44	.07	00
10	34	.44	.07	00
11	33	.44	.07	00
12	32	.44	.07	00
13	31	.44	.07	00
14	30	.44	.07	00
15	29	.44	.07	00
16	28	.44	.07	00
17	27	.44	.07	00
18	26	.44	.07	00
19	25	.44	.07	00
20	24	.44	.07	00
21	23	.44	.07	00
22	22	.44	.07	00
23	21	.44	.07	00
24	20	.44	.07	00
25	19	.44	.07	00
26	18	.44	.07	00
27	17	.44	.07	00
28	16	.44	.07	00
29	15	.44	.07	00
30	14	.44	.07	00
31	13	.44	.07	00
32	12	.44	.07	00
33	11	.44	.07	00
34	10	.44	.07	00
35	9	.44	.07	00
36	8	.44	.07	00
37	7	.44	.07	00
38	6	.44	.07	00
39	5	.44	.07	00
40	4	.44	.07	00
41	3	.44	.07	00
42	2	.44	.07	00
43	1	.44	.07	00

NORMALIZED VELOCITY PROFILE B53122 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.07	00
2	44	.44	.07	00
3	41	.44	.07	00
4	40	.44	.07	00
5	39	.44	.07	00
6	38	.44	.07	00
7	37	.44	.07	00
8	36	.44	.07	00
9	35	.44	.07	00
10	34	.44	.07	00
11	33	.44	.07	00
12	32	.44	.07	00
13	31	.44	.07	00
14	30	.44	.07	00
15	29	.44	.07	00
16	28	.44	.07	00
17	27	.44	.07	00
18	26	.44	.07	00
19	25	.44	.07	00
20	24	.44	.07	00
21	23	.44	.07	00
22	22	.44	.07	00
23	21	.44	.07	00
24	20	.44	.07	00
25	19	.44	.07	00
26	18	.44	.07	00
27	17	.44	.07	00
28	16	.44	.07	00
29	15	.44	.07	00
30	14	.44	.07	00
31	13	.44	.07	00
32	12	.44	.07	00
33	11	.44	.07	00
34	10	.44	.07	00
35	9	.44	.07	00
36	8	.44	.07	00
37	7	.44	.07	00
38	6	.44	.07	00
39	5	.44	.07	00
40	4	.44	.07	00
41	3	.44	.07	00
42	2	.44	.07	00
43	1	.44	.07	00

NORMALIZED VELOCITY PROFILE B53132 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.07	00
2	44	.44	.07	00
3	41	.44	.07	00
4	40	.44	.07	00
5	39	.44	.07	00
6	38	.44	.07	00
7	37	.44	.07	00
8	36	.44	.07	00
9	35	.44	.07	00
10	34	.44	.07	00
11	33	.44	.07	00
12	32	.44	.07	00
13	31	.44	.07	00
14	30	.44	.07	00
15	29	.44	.07	00
16	28	.44	.07	00
17	27	.44	.07	00
18	26	.44	.07	00
19	25	.44	.07	00
20	24	.44	.07	00
21	23	.44	.07	00
22	22	.44	.07	00
23	21	.44	.07	00
24	20	.44	.07	00
25	19	.44	.07	00
26	18	.44	.07	00
27	17	.44	.07	00
28	16	.44	.07	00
29	15	.44	.07	00
30	14	.44	.07	00
31	13	.44	.07	00
32	12	.44	.07	00
33	11	.44	.07	00
34	10	.44	.07	00
35	9	.44	.07	00
36	8	.44	.07	00
37	7	.44	.07	00
38	6	.44	.07	00
39	5	.44	.07	00
40	4	.44	.07	00
41	3	.44	.07	00
42	2	.44	.07	00
43	1	.44	.07	00

NORMALIZED VELOCITY PROFILE 853103 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RS (U/UREF)	TURB INT (PERCENT)
1	10	.42	.07	1
2	20	.44	.07	1
3	30	.44	.07	1
4	40	.44	.07	1
5	50	.44	.07	1
6	60	.44	.07	1
7	70	.44	.07	1
8	80	.44	.07	1
9	90	.44	.07	1
10	100	.44	.07	1
11	110	.44	.07	1
12	120	.44	.07	1
13	130	.44	.07	1
14	140	.44	.07	1
15	150	.44	.07	1
16	160	.44	.07	1
17	170	.44	.07	1
18	180	.44	.07	1
19	190	.44	.07	1
20	200	.44	.07	1
21	210	.44	.07	1
22	220	.44	.07	1
23	230	.44	.07	1
24	240	.44	.07	1
25	250	.44	.07	1
26	260	.44	.07	1
27	270	.44	.07	1
28	280	.44	.07	1
29	290	.44	.07	1
30	300	.44	.07	1
31	310	.44	.07	1
32	320	.44	.07	1
33	330	.44	.07	1
34	340	.44	.07	1
35	350	.44	.07	1
36	360	.44	.07	1
37	370	.44	.07	1
38	380	.44	.07	1
39	390	.44	.07	1
40	400	.44	.07	1
41	410	.44	.07	1
42	420	.44	.07	1
43	430	.44	.07	1
44	440	.44	.07	1
45	450	.44	.07	1
46	460	.44	.07	1
47	470	.44	.07	1
48	480	.44	.07	1
49	490	.44	.07	1
50	500	.44	.07	1
51	510	.44	.07	1
52	520	.44	.07	1
53	530	.44	.07	1
54	540	.44	.07	1
55	550	.44	.07	1
56	560	.44	.07	1
57	570	.44	.07	1
58	580	.44	.07	1
59	590	.44	.07	1
60	600	.44	.07	1
61	610	.44	.07	1
62	620	.44	.07	1
63	630	.44	.07	1
64	640	.44	.07	1
65	650	.44	.07	1
66	660	.44	.07	1
67	670	.44	.07	1
68	680	.44	.07	1
69	690	.44	.07	1
70	700	.44	.07	1
71	710	.44	.07	1
72	720	.44	.07	1
73	730	.44	.07	1
74	740	.44	.07	1
75	750	.44	.07	1
76	760	.44	.07	1
77	770	.44	.07	1
78	780	.44	.07	1
79	790	.44	.07	1
80	800	.44	.07	1
81	810	.44	.07	1
82	820	.44	.07	1
83	830	.44	.07	1
84	840	.44	.07	1
85	850	.44	.07	1
86	860	.44	.07	1
87	870	.44	.07	1
88	880	.44	.07	1
89	890	.44	.07	1
90	900	.44	.07	1
91	910	.44	.07	1
92	920	.44	.07	1
93	930	.44	.07	1
94	940	.44	.07	1
95	950	.44	.07	1
96	960	.44	.07	1
97	970	.44	.07	1
98	980	.44	.07	1
99	990	.44	.07	1
100	1000	.44	.07	1

NORMALIZED VELOCITY PROFILE 853113 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RS (U/UREF)	TURB INT (PERCENT)
1	10	.42	.09	1
2	20	.44	.10	1
3	30	.44	.10	1
4	40	.44	.10	1
5	50	.44	.10	1
6	60	.44	.10	1
7	70	.44	.10	1
8	80	.44	.10	1
9	90	.44	.10	1
10	100	.44	.10	1
11	110	.44	.10	1
12	120	.44	.10	1
13	130	.44	.10	1
14	140	.44	.10	1
15	150	.44	.10	1
16	160	.44	.10	1
17	170	.44	.10	1
18	180	.44	.10	1
19	190	.44	.10	1
20	200	.44	.10	1
21	210	.44	.10	1
22	220	.44	.10	1
23	230	.44	.10	1
24	240	.44	.10	1
25	250	.44	.10	1
26	260	.44	.10	1
27	270	.44	.10	1
28	280	.44	.10	1
29	290	.44	.10	1
30	300	.44	.10	1
31	310	.44	.10	1
32	320	.44	.10	1
33	330	.44	.10	1
34	340	.44	.10	1
35	350	.44	.10	1
36	360	.44	.10	1
37	370	.44	.10	1
38	380	.44	.10	1
39	390	.44	.10	1
40	400	.44	.10	1
41	410	.44	.10	1
42	420	.44	.10	1
43	430	.44	.10	1
44	440	.44	.10	1
45	450	.44	.10	1
46	460	.44	.10	1
47	470	.44	.10	1
48	480	.44	.10	1
49	490	.44	.10	1
50	500	.44	.10	1
51	510	.44	.10	1
52	520	.44	.10	1
53	530	.44	.10	1
54	540	.44	.10	1
55	550	.44	.10	1
56	560	.44	.10	1
57	570	.44	.10	1
58	580	.44	.10	1
59	590	.44	.10	1
60	600	.44	.10	1
61	610	.44	.10	1
62	620	.44	.10	1
63	630	.44	.10	1
64	640	.44	.10	1
65	650	.44	.10	1
66	660	.44	.10	1
67	670	.44	.10	1
68	680	.44	.10	1
69	690	.44	.10	1
70	700	.44	.10	1
71	710	.44	.10	1
72	720	.44	.10	1
73	730	.44	.10	1
74	740	.44	.10	1
75	750	.44	.10	1
76	760	.44	.10	1
77	770	.44	.10	1
78	780	.44	.10	1
79	790	.44	.10	1
80	800	.44	.10	1
81	810	.44	.10	1
82	820	.44	.10	1
83	830	.44	.10	1
84	840	.44	.10	1
85	850	.44	.10	1
86	860	.44	.10	1
87	870	.44	.10	1
88	880	.44	.10	1
89	890	.44	.10	1
90	900	.44	.10	1
91	910	.44	.10	1
92	920	.44	.10	1
93	930	.44	.10	1
94	940	.44	.10	1
95	950	.44	.10	1
96	960	.44	.10	1
97	970	.44	.10	1
98	980	.44	.10	1
99	990	.44	.10	1
100	1000	.44	.10	1

NORMALIZED VELOCITY PROFILE 853123 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RS (U/UREF)	TURB INT (PERCENT)
1	10	.44	.09	1
2	20	.44	.10	1
3	30	.44	.10	1
4	40	.44	.10	1
5	50	.44	.10	1
6	60	.44	.10	1
7	70	.44	.10	1
8	80	.44	.10	1
9	90	.44	.10	1
10	100	.44	.10	1
11	110	.44	.10	1
12	120	.44	.10	1
13	130	.44	.10	1
14	140	.44	.10	1
15	150	.44	.10	1
16	160	.44	.10	1
17	170	.44	.10	1
18	180	.44	.10	1
19	190	.44	.10	1
20	200	.44	.10	1
21	210	.44	.10	1
22	220	.44	.10	1
23	230	.44	.10	1
24	240	.44	.10	1
25	250	.44	.10	1
26	260	.44	.10	1
27	270	.44	.10	1
28	280	.44	.10	1
29	290	.44	.10	1
30	300	.44	.10	1
31	310	.44	.10	1
32	320	.44	.10	1
33	330	.44	.10	1
34	340	.44	.10	1
35	350	.44	.10	1
36	360	.44	.10	1
37	370	.44	.10	1
38	380	.44	.10	1
39	390	.44	.10	1
40	400	.44	.10	1
41	410	.44	.10	1
42	420	.44	.10	1
43	430	.44	.10	1
44	440	.44	.10	1
45	450	.44	.10	1
46	460	.44	.10	1
47	470	.44	.10	1
48	480	.44	.10	1
49	490	.44	.10	1
50	500	.44	.10	1
51	510	.44	.10	1
52	520	.44	.10	1
53	530	.44	.10	1
54	540	.44	.10	1
55	550	.44	.10	1
56	560	.44	.10	1
57	570	.44	.10	1
58	580	.44	.10	1
59	590	.44	.10	1
60	600	.44	.10	1
61	610	.44	.10	1
62	620	.44	.10	1
63	630	.44	.10	1
64	640	.44	.10	1
65	650	.44	.10	1
66	660	.44	.10	1
67	670	.44	.10	1
68	680	.44	.10	1
69	690	.44	.10	1
70	700	.44	.10	1
71	710	.44	.10	1
72	720	.44	.10	1
73	730	.44	.10	1
74	740	.44	.10	1
75	750	.44	.10	1
76	760	.44	.10	1
77	770	.44	.10	1
78	780	.44	.10	1
79	790	.44	.10	1
80	800	.44	.10	1
81	810	.44	.10	1
82	820	.44	.10	1
83	830	.44	.10	1
84	840	.44	.10	1
85	850	.44	.10	1
86	860	.44	.10	1
87	870	.44	.10	1
88	880	.44	.10	1
89	890	.44	.10	1
90	900	.44	.10	1
91	910	.44	.10	1
92	92			

NORMALIZED VELOCITY PROFILE B53104 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.42	.08	1.8
2	10	.44	.08	1.8
3	15	.44	.08	1.8
4	20	.44	.08	1.8
5	25	.44	.08	1.8
6	30	.44	.08	1.8
7	35	.44	.08	1.8
8	40	.44	.08	1.8
9	45	.44	.08	1.8
10	50	.44	.08	1.8
11	55	.44	.08	1.8
12	60	.44	.08	1.8
13	65	.44	.08	1.8
14	70	.44	.08	1.8
15	75	.44	.08	1.8
16	80	.44	.08	1.8
17	85	.44	.08	1.8
18	90	.44	.08	1.8
19	95	.44	.08	1.8
20	100	.44	.08	1.8

NORMALIZED VELOCITY PROFILE B53114 REF. VEL. 30.6 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.43	.07	16.9
2	10	.44	.07	17.9
3	15	.44	.07	16.9
4	20	.44	.07	17.9
5	25	.44	.07	16.9
6	30	.44	.07	17.9
7	35	.44	.07	16.9
8	40	.44	.07	17.9
9	45	.44	.07	16.9
10	50	.44	.07	17.9
11	55	.44	.07	16.9
12	60	.44	.07	17.9
13	65	.44	.07	16.9
14	70	.44	.07	17.9
15	75	.44	.07	16.9
16	80	.44	.07	17.9
17	85	.44	.07	16.9
18	90	.44	.07	17.9
19	95	.44	.07	16.9
20	100	.44	.07	17.9

NORMALIZED VELOCITY PROFILE B53124 REF. VEL. 30.6 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.43	.08	1.8
2	10	.44	.08	1.8
3	15	.44	.08	1.8
4	20	.44	.08	1.8
5	25	.44	.08	1.8
6	30	.44	.08	1.8
7	35	.44	.08	1.8
8	40	.44	.08	1.8
9	45	.44	.08	1.8
10	50	.44	.08	1.8
11	55	.44	.08	1.8
12	60	.44	.08	1.8
13	65	.44	.08	1.8
14	70	.44	.08	1.8
15	75	.44	.08	1.8
16	80	.44	.08	1.8
17	85	.44	.08	1.8
18	90	.44	.08	1.8
19	95	.44	.08	1.8
20	100	.44	.08	1.8

NORMALIZED VELOCITY PROFILE B53134 REF. VEL. 30.6 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.43	.08	17.9
2	10	.44	.07	15.9
3	15	.44	.07	16.9
4	20	.44	.07	15.9
5	25	.44	.07	16.9
6	30	.44	.07	15.9
7	35	.44	.07	16.9
8	40	.44	.07	15.9
9	45	.44	.07	16.9
10	50	.44	.07	15.9
11	55	.44	.07	16.9
12	60	.44	.07	15.9
13	65	.44	.07	16.9
14	70	.44	.07	15.9
15	75	.44	.07	16.9
16	80	.44	.07	15.9
17	85	.44	.07	16.9
18	90	.44	.07	15.9
19	95	.44	.07	16.9
20	100	.44	.07	15.9

NORMALIZED VELOCITY PROFILE B53105 REF. VEL. 30.9 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	10	.07	.07	11
2	10	.07	.07	11
3	10	.07	.07	11
4	10	.07	.07	11
5	10	.07	.07	11
6	10	.07	.07	11
7	10	.07	.07	11
8	10	.07	.07	11
9	10	.07	.07	11
10	10	.07	.07	11
11	10	.07	.07	11
12	10	.07	.07	11
13	10	.07	.07	11
14	10	.07	.07	11
15	10	.07	.07	11
16	10	.07	.07	11
17	10	.07	.07	11
18	10	.07	.07	11
19	10	.07	.07	11
20	10	.07	.07	11
21	10	.07	.07	11
22	10	.07	.07	11
23	10	.07	.07	11
24	10	.07	.07	11
25	10	.07	.07	11
26	10	.07	.07	11
27	10	.07	.07	11
28	10	.07	.07	11
29	10	.07	.07	11
30	10	.07	.07	11
31	10	.07	.07	11
32	10	.07	.07	11
33	10	.07	.07	11
34	10	.07	.07	11
35	10	.07	.07	11
36	10	.07	.07	11
37	10	.07	.07	11
38	10	.07	.07	11
39	10	.07	.07	11
40	10	.07	.07	11
41	10	.07	.07	11
42	10	.07	.07	11
43	10	.07	.07	11
44	10	.07	.07	11
45	10	.07	.07	11
46	10	.07	.07	11
47	10	.07	.07	11
48	10	.07	.07	11
49	10	.07	.07	11
50	10	.07	.07	11
51	10	.07	.07	11
52	10	.07	.07	11
53	10	.07	.07	11
54	10	.07	.07	11
55	10	.07	.07	11
56	10	.07	.07	11
57	10	.07	.07	11
58	10	.07	.07	11
59	10	.07	.07	11
60	10	.07	.07	11
61	10	.07	.07	11
62	10	.07	.07	11
63	10	.07	.07	11
64	10	.07	.07	11
65	10	.07	.07	11
66	10	.07	.07	11
67	10	.07	.07	11
68	10	.07	.07	11
69	10	.07	.07	11
70	10	.07	.07	11
71	10	.07	.07	11
72	10	.07	.07	11
73	10	.07	.07	11
74	10	.07	.07	11
75	10	.07	.07	11
76	10	.07	.07	11
77	10	.07	.07	11
78	10	.07	.07	11
79	10	.07	.07	11
80	10	.07	.07	11
81	10	.07	.07	11
82	10	.07	.07	11
83	10	.07	.07	11
84	10	.07	.07	11
85	10	.07	.07	11
86	10	.07	.07	11
87	10	.07	.07	11
88	10	.07	.07	11
89	10	.07	.07	11
90	10	.07	.07	11
91	10	.07	.07	11
92	10	.07	.07	11
93	10	.07	.07	11
94	10	.07	.07	11
95	10	.07	.07	11
96	10	.07	.07	11
97	10	.07	.07	11
98	10	.07	.07	11
99	10	.07	.07	11
100	10	.07	.07	11

NORMALIZED VELOCITY PROFILE B53115 REF. VEL. 30.9 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	10	.07	.07	11
2	10	.07	.07	11
3	10	.07	.07	11
4	10	.07	.07	11
5	10	.07	.07	11
6	10	.07	.07	11
7	10	.07	.07	11
8	10	.07	.07	11
9	10	.07	.07	11
10	10	.07	.07	11
11	10	.07	.07	11
12	10	.07	.07	11
13	10	.07	.07	11
14	10	.07	.07	11
15	10	.07	.07	11
16	10	.07	.07	11
17	10	.07	.07	11
18	10	.07	.07	11
19	10	.07	.07	11
20	10	.07	.07	11
21	10	.07	.07	11
22	10	.07	.07	11
23	10	.07	.07	11
24	10	.07	.07	11
25	10	.07	.07	11
26	10	.07	.07	11
27	10	.07	.07	11
28	10	.07	.07	11
29	10	.07	.07	11
30	10	.07	.07	11
31	10	.07	.07	11
32	10	.07	.07	11
33	10	.07	.07	11
34	10	.07	.07	11
35	10	.07	.07	11
36	10	.07	.07	11
37	10	.07	.07	11
38	10	.07	.07	11
39	10	.07	.07	11
40	10	.07	.07	11
41	10	.07	.07	11
42	10	.07	.07	11
43	10	.07	.07	11
44	10	.07	.07	11
45	10	.07	.07	11
46	10	.07	.07	11
47	10	.07	.07	11
48	10	.07	.07	11
49	10	.07	.07	11
50	10	.07	.07	11
51	10	.07	.07	11
52	10	.07	.07	11
53	10	.07	.07	11
54	10	.07	.07	11
55	10	.07	.07	11
56	10	.07	.07	11
57	10	.07	.07	11
58	10	.07	.07	11
59	10	.07	.07	11
60	10	.07	.07	11
61	10	.07	.07	11
62	10	.07	.07	11
63	10	.07	.07	11
64	10	.07	.07	11
65	10	.07	.07	11
66	10	.07	.07	11
67	10	.07	.07	11
68	10	.07	.07	11
69	10	.07	.07	11
70	10	.07	.07	11
71	10	.07	.07	11
72	10	.07	.07	11
73	10	.07	.07	11
74	10	.07	.07	11
75	10	.07	.07	11
76	10	.07	.07	11
77	10	.07	.07	11
78	10	.07	.07	11
79	10	.07	.07	11
80	10	.07	.07	11
81	10	.07	.07	11
82	10	.07	.07	11
83	10	.07	.07	11
84	10	.07	.07	11
85	10	.07	.07	11
86	10	.07	.07	11
87	10	.07	.07	11
88	10	.07	.07	11
89	10	.07	.07	11
90	10	.07	.07	11
91	10	.07	.07	11
92	10	.07	.07	11
93	10	.07	.07	11
94	10	.07	.07	11
95	10	.07	.07	11
96	10	.07	.07	11
97	10	.07	.07	11
98	10	.07	.07	11
99	10	.07	.07	11
100	10	.07	.07	11

NORMALIZED VELOCITY PROFILE B53125 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	10	.07	.07	17.2
2	10	.07	.07	17.1
3	10	.07	.07	17.0
4	10	.07	.07	16.9
5	10	.07	.07	16.8
6	10	.07	.07	16.7
7	10	.07	.07	16.6
8	10	.07	.07	16.5
9	10	.07	.07	16.4
10	10	.07	.07	16.3
11	10	.07	.07	16.2
12	10	.07	.07	16.1
13	10	.07	.07	16.0
14	10	.07	.07	15.9
15	10	.07	.07	15.8
16	10	.07	.07	15.7
17	10	.07	.07	15.6
18	10	.07	.07	15.5
19	10	.07	.07	15.4
20	10	.07	.07	15.3
21	10	.07	.07	15.2
22	10	.07	.07	15.1
23	10	.07	.07	15.0
24	10	.07	.07	14.9
25	10	.07	.07	14.8
26	10	.07	.07	14.7
27	10	.07	.07	14.6
28	10	.07	.07	14.5
29	10	.07	.07	14.4
30	10	.07	.07	14.3
31	10	.07	.07	14.2
32	10	.07	.07	14.1
33	10	.07	.07	14.0
34	10	.07	.07	13.9
35	10	.07	.07	13.8
36	10	.07	.07	13.7
37	10	.07	.07	13.6
38	10	.07	.07	13.5
39	10	.07	.07	13.4
40	10	.07	.07	13.3
41	10	.07	.07	13.2
42	10	.07	.07	13.1
43	10	.07	.07	13.0
44	10	.07	.07	12.9
45	10	.07	.07	12.8
46	10	.07	.07	12.7
47	10	.07	.07	12.6
48	10	.07	.07	12.5
49	10	.07	.07	12.4
50	10	.07	.07	12.3
51	10	.07	.07	12.2
52	10	.07	.07	12.1
53	10	.07	.07	12.0
54	10	.07	.07	11.9
55	10	.07	.07	11.8
56	10	.07	.07	11.7
57	10	.07	.07	11.6
58	10	.07	.07	11.5
59	10	.07	.07	11.4
60	10	.07	.07	11.3
61	10	.07	.07	11.2
62	10	.07	.07	11.1
63	10	.07	.07	11.0
64	10	.07	.07	10.9
65	10	.07	.07	10.8
66	10	.07	.07	10.7
67	10	.07	.07	10.6
68	10	.07	.07	10.5
69	10	.07	.07	10.4
70	10	.07	.07	10.3
71	10	.07	.07	10.2
72	10	.07	.07	10.1
73	10	.07	.07	10.0
74	10	.07	.07	9.9
75	10	.07	.07	9.8
76	10	.07	.07	9.7
77	10	.07	.07	9.6
78	10	.07	.07	9.5
79	10	.07	.07	9.4
80	10	.07	.07	9.3
81	10	.07	.07	9.2
82	10	.07	.07	9.1
83	10	.07	.07	9.0
84	10	.07	.07	8.9
85	10	.07	.07	8.8
86	10	.07	.07	8.7

NORMALIZED VELOCITY PROFILE B13221

REF. VEL. 32.7 FPS

TEST ZONE = B

WIND DIRECTION = WEST

TIME OF DAY = 4 PM

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	52	0.00	0.00	0.00
2	48	0.00	0.00	0.00
3	44	0.00	0.00	0.00
4	40	0.00	0.00	0.00
5	36	0.00	0.00	0.00
6	32	0.00	0.00	0.00
7	28	0.00	0.00	0.00
8	24	0.00	0.00	0.00
9	20	0.00	0.00	0.00
10	16	0.00	0.00	0.00
11	12	0.00	0.00	0.00
12	8	0.00	0.00	0.00
13	4	0.00	0.00	0.00
14	0	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13222

REF. VEL. 32.8 FPS

TEST ZONE = B

WIND DIRECTION = WEST

TIME OF DAY = 4 PM

POSITION OF PROFILE = 2

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	52	0.00	0.00	0.00
2	48	0.00	0.00	0.00
3	44	0.00	0.00	0.00
4	40	0.00	0.00	0.00
5	36	0.00	0.00	0.00
6	32	0.00	0.00	0.00
7	28	0.00	0.00	0.00
8	24	0.00	0.00	0.00
9	20	0.00	0.00	0.00
10	16	0.00	0.00	0.00
11	12	0.00	0.00	0.00
12	8	0.00	0.00	0.00
13	4	0.00	0.00	0.00
14	0	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13223

REF. VEL. 32.6 FPS

TEST ZONE = B

WIND DIRECTION = WEST

TIME OF DAY = 4 PM

POSITION OF PROFILE = 3

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	52	0.00	0.00	0.00
2	48	0.00	0.00	0.00
3	44	0.00	0.00	0.00
4	40	0.00	0.00	0.00
5	36	0.00	0.00	0.00
6	32	0.00	0.00	0.00
7	28	0.00	0.00	0.00
8	24	0.00	0.00	0.00
9	20	0.00	0.00	0.00
10	16	0.00	0.00	0.00
11	12	0.00	0.00	0.00
12	8	0.00	0.00	0.00
13	4	0.00	0.00	0.00
14	0	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13224

REF. VEL. 32.7 FPS

TEST ZONE = B

WIND DIRECTION = WEST

TIME OF DAY = 4 PM

POSITION OF PROFILE = 4

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	52	0.00	0.00	0.00
2	48	0.00	0.00	0.00
3	44	0.00	0.00	0.00
4	40	0.00	0.00	0.00
5	36	0.00	0.00	0.00
6	32	0.00	0.00	0.00
7	28	0.00	0.00	0.00
8	24	0.00	0.00	0.00
9	20	0.00	0.00	0.00
10	16	0.00	0.00	0.00
11	12	0.00	0.00	0.00
12	8	0.00	0.00	0.00
13	4	0.00	0.00	0.00
14	0	0.00	0.00	0.00

NORMALIZED VELOCITY PROFILE B13225 REF. VEL. 32.7 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	5	.44	.11	21
2	10	.44	.11	21
3	15	.44	.11	21
4	20	.44	.11	21
5	25	.44	.11	21
6	30	.44	.11	21
7	35	.44	.11	21
8	40	.44	.11	21
9	45	.44	.11	21
10	50	.44	.11	21
11	55	.44	.11	21
12	60	.44	.11	21
13	65	.44	.11	21
14	70	.44	.11	21
15	75	.44	.11	21
16	80	.44	.11	21
17	85	.44	.11	21
18	90	.44	.11	21
19	95	.44	.11	21
20	100	.44	.11	21
21	105	.44	.11	21
22	110	.44	.11	21
23	115	.44	.11	21
24	120	.44	.11	21
25	125	.44	.11	21
26	130	.44	.11	21
27	135	.44	.11	21
28	140	.44	.11	21
29	145	.44	.11	21
30	150	.44	.11	21
31	155	.44	.11	21
32	160	.44	.11	21
33	165	.44	.11	21
34	170	.44	.11	21
35	175	.44	.11	21
36	180	.44	.11	21
37	185	.44	.11	21
38	190	.44	.11	21
39	195	.44	.11	21
40	200	.44	.11	21
41	205	.44	.11	21
42	210	.44	.11	21
43	215	.44	.11	21
44	220	.44	.11	21
45	225	.44	.11	21
46	230	.44	.11	21
47	235	.44	.11	21
48	240	.44	.11	21
49	245	.44	.11	21
50	250	.44	.11	21
51	255	.44	.11	21
52	260	.44	.11	21
53	265	.44	.11	21
54	270	.44	.11	21
55	275	.44	.11	21
56	280	.44	.11	21
57	285	.44	.11	21
58	290	.44	.11	21
59	295	.44	.11	21
60	300	.44	.11	21
61	305	.44	.11	21
62	310	.44	.11	21
63	315	.44	.11	21
64	320	.44	.11	21
65	325	.44	.11	21
66	330	.44	.11	21
67	335	.44	.11	21
68	340	.44	.11	21
69	345	.44	.11	21
70	350	.44	.11	21
71	355	.44	.11	21
72	360	.44	.11	21
73	365	.44	.11	21
74	370	.44	.11	21
75	375	.44	.11	21
76	380	.44	.11	21
77	385	.44	.11	21
78	390	.44	.11	21
79	395	.44	.11	21
80	400	.44	.11	21
81	405	.44	.11	21
82	410	.44	.11	21
83	415	.44	.11	21
84	420	.44	.11	21
85	425	.44	.11	21
86	430	.44	.11	21
87	435	.44	.11	21
88	440	.44	.11	21
89	445	.44	.11	21
90	450	.44	.11	21
91	455	.44	.11	21
92	460	.44	.11	21
93	465	.44	.11	21
94	470	.44	.11	21
95	475	.44	.11	21
96	480	.44	.11	21
97	485	.44	.11	21
98	490	.44	.11	21
99	495	.44	.11	21
100	500	.44	.11	21

NORMALIZED VELOCITY PROFILE B23221 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	5	.46	.11	21
2	10	.46	.11	21
3	15	.46	.11	21
4	20	.46	.11	21
5	25	.46	.11	21
6	30	.46	.11	21
7	35	.46	.11	21
8	40	.46	.11	21
9	45	.46	.11	21
10	50	.46	.11	21
11	55	.46	.11	21
12	60	.46	.11	21
13	65	.46	.11	21
14	70	.46	.11	21
15	75	.46	.11	21
16	80	.46	.11	21
17	85	.46	.11	21
18	90	.46	.11	21
19	95	.46	.11	21
20	100	.46	.11	21
21	105	.46	.11	21
22	110	.46	.11	21
23	115	.46	.11	21
24	120	.46	.11	21
25	125	.46	.11	21
26	130	.46	.11	21
27	135	.46	.11	21
28	140	.46	.11	21
29	145	.46	.11	21
30	150	.46	.11	21
31	155	.46	.11	21
32	160	.46	.11	21
33	165	.46	.11	21
34	170	.46	.11	21
35	175	.46	.11	21
36	180	.46	.11	21
37	185	.46	.11	21
38	190	.46	.11	21
39	195	.46	.11	21
40	200	.46	.11	21
41	205	.46	.11	21
42	210	.46	.11	21
43	215	.46	.11	21
44	220	.46	.11	21
45	225	.46	.11	21
46	230	.46	.11	21
47	235	.46	.11	21
48	240	.46	.11	21
49	245	.46	.11	21
50	250	.46	.11	21
51	255	.46	.11	21
52	260	.46	.11	21
53	265	.46	.11	21
54	270	.46	.11	21
55	275	.46	.11	21
56	280	.46	.11	21
57	285	.46	.11	21
58	290	.46	.11	21
59	295	.46	.11	21
60	300	.46	.11	21
61	305	.46	.11	21
62	310	.46	.11	21
63	315	.46	.11	21
64	320	.46	.11	21
65	325	.46	.11	21
66	330	.46	.11	21
67	335	.46	.11	21
68	340	.46	.11	21
69	345	.46	.11	21
70	350	.46	.11	21
71	355	.46	.11	21
72	360	.46	.11	21
73	365	.46	.11	21
74	370	.46	.11	21
75	375	.46	.11	21
76	380	.46	.11	21
77	385	.46	.11	21
78	390	.46	.11	21
79	395	.46	.11	21
80	400	.46	.11	21
81	405	.46	.11	21
82	410	.46	.11	21
83	415	.46	.11	21
84	420	.46	.11	21
85	425	.46	.11	21
86	430	.46	.11	21
87	435	.46	.11	21
88	440	.46	.11	21
89	445	.46	.11	21
90	450	.46	.11	21
91	455	.46	.11	21
92	460	.46	.11	21
93	465	.46	.11	21
94	470	.46	.11	21
95	475	.46	.11	21
96	480	.46	.11	21
97	485	.46	.11	21
98	490	.46	.11	21
99	495	.46	.11	21
100	500	.46	.11	21

NORMALIZED VELOCITY PROFILE B23222 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = WNW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	5	.44	.11	21
2	10	.44	.11	21
3	15	.44	.11	21
4	20	.44	.11	21
5	25	.44	.11	21
6	30	.44	.11	21
7	35	.44	.11	21
8	40	.44	.11	21
9	45	.44	.11	21
10	50	.44	.11	21
11	55	.44	.11	21
12	60	.44	.11	21
13	65	.44	.11	21
14	70	.44	.11	21
15	75	.44	.11	21
16	80	.44	.11	21
17	85	.44	.11	21
18	90	.44	.11	21
19	95	.44	.11	21
20	100	.44	.11	21
21	105	.44	.11	21
22	110	.44	.11	21
23	115	.44	.11	21
24	120	.44	.11	21
25	125	.44	.11	21
26	130	.44	.11	21
27	135	.44	.11	21
28	140	.44	.11	21
29	145	.44	.11	21
30	150	.44	.11	21
31	155	.44	.11	21
32	160	.44	.11	21
33	165	.44	.11	21
34	170	.44	.11	21
35	175	.44	.11	21
36	180	.44	.11	21
37	185	.44	.11	21
38	190	.44	.11	21
39	195	.44	.11	21
40	200	.44	.11	21
41	205	.44	.11	21
42	210	.44	.11	21
43	215	.44	.11	21
44	220	.44	.11	21
45	225	.44	.11	21
46	230	.44	.11	21
47	235	.44	.11	21
48	240	.44	.11	21
49	245	.44	.11	21
50	250	.44	.11	21
51	255	.44	.11	21
52	260	.44	.11	21
53	265	.44	.11	21
54	270	.44	.11	21
55	275	.44	.11	21
56	280	.44	.11	21
57	285	.44	.11	21
58	290	.44	.11	21
59	295	.44	.11	21
60	300	.44	.11	21
61	305	.44	.11	21
62	310	.44	.11	21
63	315	.44	.11	21
64	320	.44	.11	21
65	325	.44	.11	21
66	330	.44	.11	21
67	335	.44	.11	21
68	340	.44	.11	21
69	345	.44	.11	21
70	350	.44	.11	21
71	355	.44	.11	21
72	360	.44	.11	21
73	365	.44	.11	21
74	370	.44	.11	21
75	375	.44	.11	21
76	380	.44	.11	21
77	385	.44	.11	21
78	390	.44	.11	21
79	395	.44	.11	21
80	400	.44	.11	21
81	405	.44	.11	21
82	410	.44	.11	21
83	415	.44	.11	21
84	420	.44	.11	21
85	425	.44	.11	21</

NORMALIZED VELOCITY PROFILE B23224 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = 090
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.43	.10	16.0
2	73	.41	.10	15.0
3	98	.40	.10	14.0
4	120	.39	.10	13.0
5	140	.38	.10	12.0
6	160	.37	.10	11.0
7	180	.36	.10	10.0
8	200	.35	.10	9.0
9	220	.34	.10	8.0
10	240	.33	.10	7.0
11	260	.32	.10	6.0
12	280	.31	.10	5.0
13	300	.30	.10	4.0
14	320	.29	.10	3.0
15	340	.28	.10	2.0
16	360	.27	.10	1.0
17	380	.26	.10	1.0
18	400	.25	.10	1.0
19	420	.24	.10	1.0
20	440	.23	.10	1.0
21	460	.22	.10	1.0
22	480	.21	.10	1.0
23	500	.20	.10	1.0

NORMALIZED VELOCITY PROFILE B23225 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = 090
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.43	.10	16.0
2	73	.41	.10	15.0
3	98	.40	.10	14.0
4	120	.39	.10	13.0
5	140	.38	.10	12.0
6	160	.37	.10	11.0
7	180	.36	.10	10.0
8	200	.35	.10	9.0
9	220	.34	.10	8.0
10	240	.33	.10	7.0
11	260	.32	.10	6.0
12	280	.31	.10	5.0
13	300	.30	.10	4.0
14	320	.29	.10	3.0
15	340	.28	.10	2.0
16	360	.27	.10	1.0
17	380	.26	.10	1.0
18	400	.25	.10	1.0
19	420	.24	.10	1.0
20	440	.23	.10	1.0
21	460	.22	.10	1.0
22	480	.21	.10	1.0
23	500	.20	.10	1.0

NORMALIZED VELOCITY PROFILE B33221 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = 090
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.61	.10	16.0
2	73	.63	.10	15.0
3	98	.64	.10	14.0
4	120	.65	.10	13.0
5	140	.66	.10	12.0
6	160	.67	.10	11.0
7	180	.68	.10	10.0
8	200	.69	.10	9.0
9	220	.70	.10	8.0
10	240	.71	.10	7.0
11	260	.72	.10	6.0
12	280	.73	.10	5.0
13	300	.74	.10	4.0
14	320	.75	.10	3.0
15	340	.76	.10	2.0
16	360	.77	.10	1.0
17	380	.78	.10	1.0
18	400	.79	.10	1.0
19	420	.80	.10	1.0
20	440	.81	.10	1.0
21	460	.82	.10	1.0
22	480	.83	.10	1.0
23	500	.84	.10	1.0

NORMALIZED VELOCITY PROFILE B33222 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = 090
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.61	.10	16.0
2	73	.63	.10	15.0
3	98	.64	.10	14.0
4	120	.65	.10	13.0
5	140	.66	.10	12.0
6	160	.67	.10	11.0
7	180	.68	.10	10.0
8	200	.69	.10	9.0
9	220	.70	.10	8.0
10	240	.71	.10	7.0
11	260	.72	.10	6.0
12	280	.73	.10	5.0
13	300	.74	.10	4.0
14	320	.75	.10	3.0
15	340	.76	.10	2.0
16	360	.77	.10	1.0
17	380	.78	.10	1.0
18	400	.79	.10	1.0
19	420	.80	.10	1.0
20	440	.81	.10	1.0
21	460	.82	.10	1.0
22	480	.83	.10	1.0
23	500	.84	.10	1.0

NORMALIZED VELOCITY PROFILE B33223 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.44	.10	15
2	72	.44	.11	15
3	98	.44	.11	15
4	120	.44	.11	15
5	142	.44	.11	15
6	168	.44	.11	15
7	190	.44	.11	15
8	212	.44	.11	15
9	238	.44	.11	15
10	260	.44	.11	15
11	282	.44	.11	15
12	308	.44	.11	15
13	330	.44	.11	15
14	352	.44	.11	15
15	378	.44	.11	15
16	400	.44	.11	15
17	422	.44	.11	15
18	448	.44	.11	15
19	470	.44	.11	15
20	492	.44	.11	15
21	518	.44	.11	15
22	540	.44	.11	15
23	562	.44	.11	15
24	588	.44	.11	15
25	610	.44	.11	15
26	632	.44	.11	15
27	658	.44	.11	15
28	680	.44	.11	15
29	702	.44	.11	15
30	728	.44	.11	15
31	750	.44	.11	15
32	772	.44	.11	15
33	798	.44	.11	15
34	820	.44	.11	15
35	842	.44	.11	15
36	868	.44	.11	15
37	890	.44	.11	15
38	912	.44	.11	15
39	938	.44	.11	15
40	960	.44	.11	15
41	982	.44	.11	15
42	1008	.44	.11	15
43	1030	.44	.11	15
44	1052	.44	.11	15
45	1078	.44	.11	15
46	1100	.44	.11	15
47	1122	.44	.11	15
48	1148	.44	.11	15
49	1170	.44	.11	15
50	1192	.44	.11	15
51	1218	.44	.11	15
52	1240	.44	.11	15
53	1262	.44	.11	15
54	1288	.44	.11	15
55	1310	.44	.11	15
56	1332	.44	.11	15
57	1358	.44	.11	15
58	1380	.44	.11	15
59	1402	.44	.11	15
60	1428	.44	.11	15
61	1450	.44	.11	15
62	1472	.44	.11	15
63	1498	.44	.11	15
64	1520	.44	.11	15
65	1542	.44	.11	15
66	1568	.44	.11	15
67	1590	.44	.11	15
68	1612	.44	.11	15
69	1638	.44	.11	15
70	1660	.44	.11	15
71	1682	.44	.11	15
72	1708	.44	.11	15
73	1730	.44	.11	15
74	1752	.44	.11	15
75	1778	.44	.11	15
76	1800	.44	.11	15
77	1822	.44	.11	15
78	1848	.44	.11	15
79	1870	.44	.11	15
80	1892	.44	.11	15
81	1918	.44	.11	15
82	1940	.44	.11	15
83	1962	.44	.11	15
84	1988	.44	.11	15
85	2010	.44	.11	15
86	2032	.44	.11	15
87	2058	.44	.11	15
88	2080	.44	.11	15
89	2102	.44	.11	15
90	2128	.44	.11	15
91	2150	.44	.11	15
92	2172	.44	.11	15
93	2198	.44	.11	15
94	2220	.44	.11	15
95	2242	.44	.11	15
96	2268	.44	.11	15
97	2290	.44	.11	15
98	2312	.44	.11	15
99	2338	.44	.11	15
100	2360	.44	.11	15

NORMALIZED VELOCITY PROFILE B33224 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	15
2	72	.44	.10	15
3	98	.44	.10	15
4	120	.44	.11	15
5	142	.44	.11	15
6	168	.44	.11	15
7	190	.44	.11	15
8	212	.44	.11	15
9	238	.44	.12	15
10	260	.44	.12	15
11	282	.44	.11	15
12	308	.44	.09	15
13	330	.44	.08	15
14	352	.44	.08	15
15	378	.44	.07	15
16	400	.44	.07	15
17	422	.44	.07	15
18	448	.44	.06	15
19	470	.44	.06	15
20	492	.44	.06	15
21	518	.44	.06	15
22	540	.44	.06	15
23	562	.44	.06	15
24	588	.44	.06	15
25	610	.44	.06	15
26	632	.44	.06	15
27	658	.44	.06	15
28	680	.44	.06	15
29	702	.44	.06	15
30	728	.44	.06	15
31	750	.44	.06	15
32	772	.44	.06	15
33	798	.44	.06	15
34	820	.44	.06	15
35	842	.44	.06	15
36	868	.44	.06	15
37	890	.44	.06	15
38	912	.44	.06	15
39	938	.44	.06	15
40	960	.44	.06	15
41	982	.44	.06	15
42	1008	.44	.06	15
43	1030	.44	.06	15
44	1052	.44	.06	15
45	1078	.44	.06	15
46	1100	.44	.06	15
47	1122	.44	.06	15
48	1148	.44	.06	15
49	1170	.44	.06	15
50	1192	.44	.06	15
51	1218	.44	.06	15
52	1240	.44	.06	15
53	1262	.44	.06	15
54	1288	.44	.06	15
55	1310	.44	.06	15
56	1332	.44	.06	15
57	1358	.44	.06	15
58	1380	.44	.06	15
59	1402	.44	.06	15
60	1428	.44	.06	15
61	1450	.44	.06	15
62	1472	.44	.06	15
63	1498	.44	.06	15
64	1520	.44	.06	15
65	1542	.44	.06	15
66	1568	.44	.06	15
67	1590	.44	.06	15
68	1612	.44	.06	15
69	1638	.44	.06	15
70	1660	.44	.06	15
71	1682	.44	.06	15
72	1708	.44	.06	15
73	1730	.44	.06	15
74	1752	.44	.06	15
75	1778	.44	.06	15
76	1800	.44	.06	15
77	1822	.44	.06	15
78	1848	.44	.06	15
79	1870	.44	.06	15
80	1892	.44	.06	15
81	1918	.44	.06	15
82	1940	.44	.06	15
83	1962	.44	.06	15
84	1988	.44	.06	15
85	2010	.44	.06	15
86	2032	.44	.06	15
87	2058	.44	.06	15
88	2080	.44	.06	15
89	2102	.44	.06	15
90	2128	.44	.06	15
91	2150	.44	.06	15
92	2172	.44	.06	15
93	2198	.44	.06	15
94	2220	.44	.06	15
95	2242	.44	.06	15
96	2268	.44	.06	15
97	2290	.44	.06	15
98	2312	.44	.06	15
99	2338	.44	.06	15
100	2360	.44	.06	15

NORMALIZED VELOCITY PROFILE B33225 REF. VEL. 32.5 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	15
2	72	.44	.10	15
3	98	.44	.10	15
4	120	.44	.11	15
5	142	.44	.11	15
6	168	.44	.11	15
7	190	.44	.11	15
8	212	.44	.11	15
9	238	.44	.12	15
10	260	.44	.12	15
11	282	.44	.11	15
12	308	.44	.09	15
13	330	.44	.08	15
14	352	.44	.08	15
15	378	.44	.07	15
16	400	.44	.07	15
17	422	.44	.07	15
18	448	.44	.06	15
19	470	.44	.06	15
20	492	.44	.06	15
21	518	.44	.06	15
22	540	.44	.06	15
23	562	.44	.06	15
24	588	.44	.06	15
25	610	.44	.06	15
26	632	.44	.06	15
27	658	.44	.06	15
28	680	.44	.06	15
29	702	.44	.06	15
30	728	.44	.06	15
31	750	.44	.06	15
32	772	.44	.06	15
33	798	.44	.06	15
34	820	.44	.06	15
35	842	.44	.06	15
36	868	.44	.06	15
37	890	.44	.06	15
38	912	.44	.06	15
39	938	.44	.06	15
40	960	.44	.06	15
41	982	.44	.06	15
42	1008	.44	.06	15
43	1030	.44	.06	15
44	1052	.44	.06	15
45	1078	.44	.06	15
46	1100	.44	.06	15
47	1122	.44	.06	15
48	1148	.44	.06	15
49	1170	.44	.06	15
50	1192	.44	.06	15
51	1218	.44	.06	15
52	1240	.44	.06	15
53	1262	.44	.06	15
54	1288	.44	.06	15
55	1310	.44	.06	15
56	1332	.44	.06	15
57	1358	.44	.06	15
58	1380	.44	.06	15
59	1402	.44	.06	15
60	1428	.44	.06	15
61	1450	.44	.06	15
62	1472	.44	.06	15
63	1498	.44	.06	15
64	1520	.44	.06	15
65	1542	.44	.06	15
66	1568	.44	.06	15
67	1590	.44	.06	15
68	1612	.44	.06	15
69	1638	.44	.06	15
70	1660	.44	.06	15
71	1682	.44	.06	15
72	1708	.44	.06	15
73	1730	.44	.06	15
74	1752	.44	.06	15
75	1778	.44	.06	15
76	1800	.44	.06	15
77	1822	.44	.06	15
78	1848	.44	.06	15
79	1870	.44	.06	15
80</				

NORMALIZED VELOCITY PROFILE B43222 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = NNE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 32FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.07	4.4
2	74	.17	.07	4.4
3	98	.17	.07	4.4
4	122	.17	.07	4.4
5	146	.17	.07	4.4
6	170	.17	.07	4.4
7	194	.17	.07	4.4
8	218	.17	.07	4.4
9	242	.17	.07	4.4
10	266	.17	.07	4.4
11	290	.17	.07	4.4
12	314	.17	.07	4.4
13	338	.17	.07	4.4
14	362	.17	.07	4.4
15	386	.17	.07	4.4
16	410	.17	.07	4.4
17	434	.17	.07	4.4
18	458	.17	.07	4.4
19	482	.17	.07	4.4
20	506	.17	.07	4.4
21	530	.17	.07	4.4
22	554	.17	.07	4.4
23	578	.17	.07	4.4
24	602	.17	.07	4.4
25	626	.17	.07	4.4
26	650	.17	.07	4.4
27	674	.17	.07	4.4
28	698	.17	.07	4.4
29	722	.17	.07	4.4
30	746	.17	.07	4.4
31	770	.17	.07	4.4
32	794	.17	.07	4.4
33	818	.17	.07	4.4
34	842	.17	.07	4.4
35	866	.17	.07	4.4
36	890	.17	.07	4.4
37	914	.17	.07	4.4
38	938	.17	.07	4.4
39	962	.17	.07	4.4
40	986	.17	.07	4.4
41	1010	.17	.07	4.4
42	1034	.17	.07	4.4
43	1058	.17	.07	4.4
44	1082	.17	.07	4.4
45	1106	.17	.07	4.4
46	1130	.17	.07	4.4
47	1154	.17	.07	4.4
48	1178	.17	.07	4.4
49	1202	.17	.07	4.4
50	1226	.17	.07	4.4
51	1250	.17	.07	4.4
52	1274	.17	.07	4.4
53	1298	.17	.07	4.4
54	1322	.17	.07	4.4
55	1346	.17	.07	4.4
56	1370	.17	.07	4.4
57	1394	.17	.07	4.4
58	1418	.17	.07	4.4
59	1442	.17	.07	4.4
60	1466	.17	.07	4.4
61	1490	.17	.07	4.4
62	1514	.17	.07	4.4
63	1538	.17	.07	4.4
64	1562	.17	.07	4.4
65	1586	.17	.07	4.4
66	1610	.17	.07	4.4
67	1634	.17	.07	4.4
68	1658	.17	.07	4.4
69	1682	.17	.07	4.4
70	1706	.17	.07	4.4
71	1730	.17	.07	4.4
72	1754	.17	.07	4.4
73	1778	.17	.07	4.4
74	1802	.17	.07	4.4
75	1826	.17	.07	4.4
76	1850	.17	.07	4.4
77	1874	.17	.07	4.4
78	1898	.17	.07	4.4
79	1922	.17	.07	4.4
80	1946	.17	.07	4.4
81	1970	.17	.07	4.4
82	1994	.17	.07	4.4
83	2018	.17	.07	4.4
84	2042	.17	.07	4.4
85	2066	.17	.07	4.4
86	2090	.17	.07	4.4
87	2114	.17	.07	4.4
88	2138	.17	.07	4.4
89	2162	.17	.07	4.4
90	2186	.17	.07	4.4
91	2210	.17	.07	4.4
92	2234	.17	.07	4.4
93	2258	.17	.07	4.4
94	2282	.17	.07	4.4
95	2306	.17	.07	4.4
96	2330	.17	.07	4.4
97	2354	.17	.07	4.4
98	2378	.17	.07	4.4
99	2402	.17	.07	4.4
100	2426	.17	.07	4.4

NORMALIZED VELOCITY PROFILE B43223 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = NNE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 32FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.07	4.4
2	74	.17	.07	4.4
3	98	.17	.07	4.4
4	122	.17	.07	4.4
5	146	.17	.07	4.4
6	170	.17	.07	4.4
7	194	.17	.07	4.4
8	218	.17	.07	4.4
9	242	.17	.07	4.4
10	266	.17	.07	4.4
11	290	.17	.07	4.4
12	314	.17	.07	4.4
13	338	.17	.07	4.4
14	362	.17	.07	4.4
15	386	.17	.07	4.4
16	410	.17	.07	4.4
17	434	.17	.07	4.4
18	458	.17	.07	4.4
19	482	.17	.07	4.4
20	506	.17	.07	4.4
21	530	.17	.07	4.4
22	554	.17	.07	4.4
23	578	.17	.07	4.4
24	602	.17	.07	4.4
25	626	.17	.07	4.4
26	650	.17	.07	4.4
27	674	.17	.07	4.4
28	698	.17	.07	4.4
29	722	.17	.07	4.4
30	746	.17	.07	4.4
31	770	.17	.07	4.4
32	794	.17	.07	4.4
33	818	.17	.07	4.4
34	842	.17	.07	4.4
35	866	.17	.07	4.4
36	890	.17	.07	4.4
37	914	.17	.07	4.4
38	938	.17	.07	4.4
39	962	.17	.07	4.4
40	986	.17	.07	4.4
41	1010	.17	.07	4.4
42	1034	.17	.07	4.4
43	1058	.17	.07	4.4
44	1082	.17	.07	4.4
45	1106	.17	.07	4.4
46	1130	.17	.07	4.4
47	1154	.17	.07	4.4
48	1178	.17	.07	4.4
49	1202	.17	.07	4.4
50	1226	.17	.07	4.4
51	1250	.17	.07	4.4
52	1274	.17	.07	4.4
53	1298	.17	.07	4.4
54	1322	.17	.07	4.4
55	1346	.17	.07	4.4
56	1370	.17	.07	4.4
57	1394	.17	.07	4.4
58	1418	.17	.07	4.4
59	1442	.17	.07	4.4
60	1466	.17	.07	4.4
61	1490	.17	.07	4.4
62	1514	.17	.07	4.4
63	1538	.17	.07	4.4
64	1562	.17	.07	4.4
65	1586	.17	.07	4.4
66	1610	.17	.07	4.4
67	1634	.17	.07	4.4
68	1658	.17	.07	4.4
69	1682	.17	.07	4.4
70	1706	.17	.07	4.4
71	1730	.17	.07	4.4
72	1754	.17	.07	4.4
73	1778	.17	.07	4.4
74	1802	.17	.07	4.4
75	1826	.17	.07	4.4
76	1850	.17	.07	4.4
77	1874	.17	.07	4.4
78	1898	.17	.07	4.4
79	1922	.17	.07	4.4
80	1946	.17	.07	4.4
81	1970	.17	.07	4.4
82	1994	.17	.07	4.4
83	2018	.17	.07	4.4
84	2042	.17	.07	4.4
85	2066	.17	.07	4.4
86	2090	.17	.07	4.4
87	2114	.17	.07	4.4
88	2138	.17	.07	4.4
89	2162	.17	.07	4.4
90	2186	.17	.07	4.4
91	2210	.17	.07	4.4
92	2234	.17	.07	4.4
93	2258	.17	.07	4.4
94	2282	.17	.07	4.4
95	2306	.17	.07	4.4
96	2330	.17	.07	4.4
97	2354	.17	.07	4.4
98	2378	.17	.07	4.4
99	2402	.17	.07	4.4
100	2426	.17	.07	4.4

NORMALIZED VELOCITY PROFILE B43224 REF. VEL. 31.7 FPS

TEST ZONE = B WIND DIRECTION = NNE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 32FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.07	4.4
2	74	.17	.07	4.4
3	98	.17	.07	4.4
4	122	.17	.07	4.4
5	146	.17	.07	4.4
6	170	.17	.07	4.4
7	194	.17	.07	4.4
8	218	.17	.07	4.4
9	242	.17	.07	4.4
10	266	.17	.07	4.4
11	290	.17	.07	4.4
12	314	.17	.07	4.4
13	338	.17	.07	4.4
14	362	.17	.07	4.4
15	386	.17	.07	4.4
16	410	.17	.07	4.4
17	434	.17	.07	4.4
18	458	.17	.07	4.4
19	482	.17	.07	4.4
20	506	.17	.07	4.4
21	530	.17	.07	4.4
22	554	.17	.07	4.4
23	578	.17	.07	4.4
24	602	.17	.07	4.4
25	626	.17	.07	4.4
26	650	.17	.07	4.4
27	674	.17	.07	4.4
28	698	.17	.07	4.4
29	722	.17	.07	4.4
30	746	.17	.07	4.4
31	770	.17	.07	4.4
32	794	.17	.07	4.4
33	818	.17	.07	4.4
34	842	.17	.07	4.4
35	866	.17	.07	4.4
36	890	.17	.07	4.4
37	914	.17	.07	4.4
38	938	.17	.07	4.4
39	962	.17	.07	4.4
40	986	.17	.07	4.4
41	1010	.17	.07	4.4
42	1034	.17	.07	4.4
43	1058	.17	.07	4.4
44	1082	.17	.07	4.4
45	1106	.17	.07	4.4
46	1130	.17	.07	4.4
47	1154	.17	.07	4.4
48	1178	.17	.07	4.4
49	1202	.17	.07	4.4
50	1226	.17	.07	4.4
51	1250	.17	.07	4.4
52	1274	.17	.07	4.4
53	1298	.17	.07	4.4
54	1322	.17	.07	4.4
55	1346	.17	.07	4.4
56	1370	.17	.07	4.4
57	1394	.17	.07	4.4
58	1418	.17	.07	4.4
59	1442	.17	.07	4.4
60	1466	.17	.07	4.4
61	1490	.17	.07	4.4
62	1514	.17	.07	4.4
63	1538	.17	.07	4.4
64	1562	.17	.07	4.4
65	1586	.17	.07	4.4
66	1610	.17	.07	4.4
67	1634	.17	.07	4.4
68	1658	.17	.07	4.4
69	1682	.17	.07	4.4
70	1706	.17	.07	4.4
71	1730	.17	.07	4.4
72	1754	.17	.07	4.4
73	1778	.17	.07	4.4
74	1802			

NORMALIZED VELOCITY PROFILE 853221 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.19	.06	32
2	46	.22	.06	32
3	42	.25	.07	32
4	38	.28	.07	32
5	34	.31	.08	32
6	30	.34	.08	32
7	26	.37	.09	32
8	22	.40	.09	32
9	18	.43	.10	32
10	14	.46	.10	32
11	10	.49	.11	32
12	6	.52	.11	32
13	2	.55	.12	32
14	0	.58	.12	32
15	0	.61	.13	32
16	0	.64	.13	32
17	0	.67	.14	32

NORMALIZED VELOCITY PROFILE 853222 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.19	.06	32
2	46	.22	.06	32
3	42	.25	.07	32
4	38	.28	.07	32
5	34	.31	.08	32
6	30	.34	.08	32
7	26	.37	.09	32
8	22	.40	.09	32
9	18	.43	.10	32
10	14	.46	.10	32
11	10	.49	.11	32
12	6	.52	.11	32
13	2	.55	.12	32
14	0	.58	.12	32
15	0	.61	.13	32
16	0	.64	.13	32
17	0	.67	.14	32

NORMALIZED VELOCITY PROFILE 853223 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.27	.08	32
2	46	.30	.08	32
3	42	.33	.09	32
4	38	.36	.09	32
5	34	.39	.10	32
6	30	.42	.10	32
7	26	.45	.11	32
8	22	.48	.11	32
9	18	.51	.12	32
10	14	.54	.12	32
11	10	.57	.13	32
12	6	.60	.13	32
13	2	.63	.14	32
14	0	.66	.14	32
15	0	.69	.15	32
16	0	.72	.15	32
17	0	.75	.16	32

NORMALIZED VELOCITY PROFILE 853224 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.27	.08	32
2	46	.30	.08	32
3	42	.33	.09	32
4	38	.36	.09	32
5	34	.39	.10	32
6	30	.42	.10	32
7	26	.45	.11	32
8	22	.48	.11	32
9	18	.51	.12	32
10	14	.54	.12	32
11	10	.57	.13	32
12	6	.60	.13	32
13	2	.63	.14	32
14	0	.66	.14	32
15	0	.69	.15	32
16	0	.72	.15	32
17	0	.75	.16	32

NORMALIZED VELOCITY PROFILE 03323 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
TIME OF DAY = 4 PM POSITION OF PROFILE = 5
FENCE CONFIGURATION = 1SFT AT 52FT

POINT	HEIGHT (INCHES)	WIND SPEED (FPS)	WIND DIRECTION (DEGREES)	TURB. INT. (PERCENT)
1	10	10	10	10
2	20	20	20	20
3	30	30	30	30
4	40	40	40	40
5	50	50	50	50
6	60	60	60	60
7	70	70	70	70
8	80	80	80	80
9	90	90	90	90
10	100	100	100	100
11	110	110	110	110
12	120	120	120	120
13	130	130	130	130
14	140	140	140	140
15	150	150	150	150
16	160	160	160	160
17	170	170	170	170
18	180	180	180	180
19	190	190	190	190
20	200	200	200	200
21	210	210	210	210
22	220	220	220	220
23	230	230	230	230
24	240	240	240	240
25	250	250	250	250
26	260	260	260	260
27	270	270	270	270
28	280	280	280	280
29	290	290	290	290
30	300	300	300	300
31	310	310	310	310
32	320	320	320	320
33	330	330	330	330
34	340	340	340	340
35	350	350	350	350
36	360	360	360	360
37	370	370	370	370
38	380	380	380	380
39	390	390	390	390
40	400	400	400	400
41	410	410	410	410
42	420	420	420	420
43	430	430	430	430
44	440	440	440	440
45	450	450	450	450
46	460	460	460	460
47	470	470	470	470
48	480	480	480	480
49	490	490	490	490
50	500	500	500	500
51	510	510	510	510
52	520	520	520	520

NORMALIZED VELOCITY PROFILE B13301 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.46	.10	20
2	75	.47	.10	20
3	101	.48	.10	20
4	127	.49	.10	20
5	153	.50	.10	20
6	179	.51	.10	20
7	205	.52	.10	20
8	231	.53	.10	20
9	257	.54	.10	20
10	283	.55	.10	20
11	309	.56	.10	20
12	335	.57	.10	20
13	361	.58	.10	20
14	387	.59	.10	20
15	413	.60	.10	20
16	439	.61	.10	20
17	465	.62	.10	20
18	491	.63	.10	20
19	517	.64	.10	20
20	543	.65	.10	20
21	569	.66	.10	20
22	595	.67	.10	20
23	621	.68	.10	20
24	647	.69	.10	20
25	673	.70	.10	20
26	699	.71	.10	20
27	725	.72	.10	20
28	751	.73	.10	20
29	777	.74	.10	20
30	803	.75	.10	20
31	829	.76	.10	20
32	855	.77	.10	20
33	881	.78	.10	20
34	907	.79	.10	20
35	933	.80	.10	20
36	959	.81	.10	20
37	985	.82	.10	20
38	1011	.83	.10	20
39	1037	.84	.10	20
40	1063	.85	.10	20
41	1089	.86	.10	20
42	1115	.87	.10	20
43	1141	.88	.10	20
44	1167	.89	.10	20
45	1193	.90	.10	20
46	1219	.91	.10	20
47	1245	.92	.10	20
48	1271	.93	.10	20
49	1297	.94	.10	20
50	1323	.95	.10	20
51	1349	.96	.10	20
52	1375	.97	.10	20
53	1401	.98	.10	20
54	1427	.99	.10	20
55	1453	1.00	.10	20

NORMALIZED VELOCITY PROFILE B13302 REF. VEL. 30.9 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.46	.09	20
2	75	.47	.09	20
3	101	.48	.09	20
4	127	.49	.09	20
5	153	.50	.09	20
6	179	.51	.09	20
7	205	.52	.09	20
8	231	.53	.09	20
9	257	.54	.09	20
10	283	.55	.09	20
11	309	.56	.09	20
12	335	.57	.09	20
13	361	.58	.09	20
14	387	.59	.09	20
15	413	.60	.09	20
16	439	.61	.09	20
17	465	.62	.09	20
18	491	.63	.09	20
19	517	.64	.09	20
20	543	.65	.09	20
21	569	.66	.09	20
22	595	.67	.09	20
23	621	.68	.09	20
24	647	.69	.09	20
25	673	.70	.09	20
26	699	.71	.09	20
27	725	.72	.09	20
28	751	.73	.09	20
29	777	.74	.09	20
30	803	.75	.09	20
31	829	.76	.09	20
32	855	.77	.09	20
33	881	.78	.09	20
34	907	.79	.09	20
35	933	.80	.09	20
36	959	.81	.09	20
37	985	.82	.09	20
38	1011	.83	.09	20
39	1037	.84	.09	20
40	1063	.85	.09	20
41	1089	.86	.09	20
42	1115	.87	.09	20
43	1141	.88	.09	20
44	1167	.89	.09	20
45	1193	.90	.09	20
46	1219	.91	.09	20
47	1245	.92	.09	20
48	1271	.93	.09	20
49	1297	.94	.09	20
50	1323	.95	.09	20
51	1349	.96	.09	20
52	1375	.97	.09	20
53	1401	.98	.09	20
54	1427	.99	.09	20
55	1453	1.00	.09	20

NORMALIZED VELOCITY PROFILE B13303 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.46	.10	20
2	75	.47	.09	18
3	101	.48	.09	16
4	127	.49	.09	15
5	153	.50	.09	14
6	179	.51	.09	14
7	205	.52	.09	14
8	231	.53	.09	14
9	257	.54	.09	14
10	283	.55	.09	14
11	309	.56	.09	14
12	335	.57	.09	14
13	361	.58	.09	14
14	387	.59	.09	14
15	413	.60	.09	14
16	439	.61	.09	14
17	465	.62	.09	14
18	491	.63	.09	14
19	517	.64	.09	14
20	543	.65	.09	14
21	569	.66	.09	14
22	595	.67	.09	14
23	621	.68	.09	14
24	647	.69	.09	14
25	673	.70	.09	14
26	699	.71	.09	14
27	725	.72	.09	14
28	751	.73	.09	14
29	777	.74	.09	14
30	803	.75	.09	14
31	829	.76	.09	14
32	855	.77	.09	14
33	881	.78	.09	14
34	907	.79	.09	14
35	933	.80	.09	14
36	959	.81	.09	14
37	985	.82	.09	14
38	1011	.83	.09	14
39	1037	.84	.09	14
40	1063	.85	.09	14
41	1089	.86	.09	14
42	1115	.87	.09	14
43	1141	.88	.09	14
44	1167	.89	.09	14
45	1193	.90	.09	14
46	1219	.91	.09	14
47	1245	.92	.09	14
48	1271	.93	.09	14
49	1297	.94	.09	14
50	1323	.95	.09	14
51	1349	.96	.09	14
52	1375	.97	.09	14
53	1401	.98	.09	14
54	1427	.99	.09	14
55	1453	1.00	.09	14

NORMALIZED VELOCITY PROFILE B13304 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.46	.09	20
2	75	.47	.10	20
3	101	.48	.10	20
4	127	.49	.10	20
5	153	.50	.10	20
6	179	.51	.10	20
7	205	.52	.10	20
8	231	.53	.10	20
9	257	.54	.10	20
10	283	.55	.10	20
11	309	.56	.10	20
12	335	.57	.10	20
13	361	.58	.10	20
14	387	.59	.10	20
15	413	.60	.10	20
16	439	.61	.10	20
17	465	.62	.10	20
18	491	.63	.10	20
19	517	.64	.10	20
20	543	.65	.10	20
21	569	.66	.10	20
22	595	.67	.10	20
23	621	.68	.10	20
24	647	.69	.10	20
25	673	.70	.10	20
26	699	.71	.10	20
27	725	.72	.10	20
28	751	.73	.10	20
29	777	.74	.10	20
30	803	.75	.10	20
31	829	.76	.10	20
32	855	.77	.10	20
33	881	.78	.10	20
34	907	.79	.10	20
35	933	.80	.10	20
36	959	.81	.10	20
37	985	.82	.10	20
38	1011	.83	.10	20
39	1037	.84	.10	20
40	1063	.85	.10	20
41	1089	.86	.10	20
42	1115	.87	.10	20
43	1141	.88	.10	20
44	1167	.89	.10	20
45	1193	.90	.10	20
46	1219	.91	.10	20
47	1245	.92	.10	20
48	1271	.93	.10	20
49	1297	.94	.10	20
50	1323	.95	.10	20
51	1349	.96	.10	20
52	1375	.97	.10	20
53	1401	.98	.10	20
54	1427	.99	.10	20
55	1453	1.00	.10	20

NORMALIZED VELOCITY PROFILE B13324 REF. VEL. 31.5 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.40	.11	22
2	75	.42	.11	22
3	100	.43	.11	22
4	125	.44	.11	22
5	150	.45	.11	22
6	175	.46	.11	22
7	200	.47	.11	22
8	225	.48	.11	22
9	250	.49	.11	22
10	275	.50	.11	22
11	300	.51	.11	22
12	325	.52	.11	22
13	350	.53	.11	22
14	375	.54	.11	22
15	400	.55	.11	22
16	425	.56	.11	22
17	450	.57	.11	22
18	475	.58	.11	22
19	500	.59	.11	22
20	525	.60	.11	22
21	550	.61	.11	22
22	575	.62	.11	22
23	600	.63	.11	22
24	625	.64	.11	22
25	650	.65	.11	22
26	675	.66	.11	22
27	700	.67	.11	22
28	725	.68	.11	22
29	750	.69	.11	22
30	775	.70	.11	22
31	800	.71	.11	22
32	825	.72	.11	22
33	850	.73	.11	22
34	875	.74	.11	22
35	900	.75	.11	22
36	925	.76	.11	22
37	950	.77	.11	22
38	975	.78	.11	22
39	1000	.79	.11	22
40	1025	.80	.11	22
41	1050	.81	.11	22
42	1075	.82	.11	22
43	1100	.83	.11	22
44	1125	.84	.11	22
45	1150	.85	.11	22
46	1175	.86	.11	22
47	1200	.87	.11	22
48	1225	.88	.11	22
49	1250	.89	.11	22
50	1275	.90	.11	22
51	1300	.91	.11	22
52	1325	.92	.11	22
53	1350	.93	.11	22
54	1375	.94	.11	22
55	1400	.95	.11	22
56	1425	.96	.11	22
57	1450	.97	.11	22
58	1475	.98	.11	22
59	1500	.99	.11	22
60	1525	1.00	.11	22

NORMALIZED VELOCITY PROFILE B13325 REF. VEL. 31.5 FPS

TEST ZONE = B WIND DIRECTION = WEST
 TIME OF DAY = STOWED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.40	.11	22
2	75	.42	.11	22
3	100	.43	.11	22
4	125	.44	.11	22
5	150	.45	.11	22
6	175	.46	.11	22
7	200	.47	.11	22
8	225	.48	.11	22
9	250	.49	.11	22
10	275	.50	.11	22
11	300	.51	.11	22
12	325	.52	.11	22
13	350	.53	.11	22
14	375	.54	.11	22
15	400	.55	.11	22
16	425	.56	.11	22
17	450	.57	.11	22
18	475	.58	.11	22
19	500	.59	.11	22
20	525	.60	.11	22
21	550	.61	.11	22
22	575	.62	.11	22
23	600	.63	.11	22
24	625	.64	.11	22
25	650	.65	.11	22
26	675	.66	.11	22
27	700	.67	.11	22
28	725	.68	.11	22
29	750	.69	.11	22
30	775	.70	.11	22
31	800	.71	.11	22
32	825	.72	.11	22
33	850	.73	.11	22
34	875	.74	.11	22
35	900	.75	.11	22
36	925	.76	.11	22
37	950	.77	.11	22
38	975	.78	.11	22
39	1000	.79	.11	22
40	1025	.80	.11	22
41	1050	.81	.11	22
42	1075	.82	.11	22
43	1100	.83	.11	22
44	1125	.84	.11	22
45	1150	.85	.11	22
46	1175	.86	.11	22
47	1200	.87	.11	22
48	1225	.88	.11	22
49	1250	.89	.11	22
50	1275	.90	.11	22
51	1300	.91	.11	22
52	1325	.92	.11	22
53	1350	.93	.11	22
54	1375	.94	.11	22
55	1400	.95	.11	22
56	1425	.96	.11	22
57	1450	.97	.11	22
58	1475	.98	.11	22
59	1500	.99	.11	22
60	1525	1.00	.11	22

NORMALIZED VELOCITY PROFILE B33301 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.09	.09	17
2	75	.09	.09	17
3	100	.09	.09	17
4	125	.09	.09	17
5	150	.09	.09	17
6	175	.09	.09	17
7	200	.09	.09	17
8	225	.09	.09	17
9	250	.09	.09	17
10	275	.09	.09	17
11	300	.09	.09	17
12	325	.09	.09	17
13	350	.09	.09	17
14	375	.09	.09	17
15	400	.09	.09	17
16	425	.09	.09	17
17	450	.09	.09	17
18	475	.09	.09	17
19	500	.09	.09	17
20	525	.09	.09	17
21	550	.09	.09	17
22	575	.09	.09	17
23	600	.09	.09	17
24	625	.09	.09	17
25	650	.09	.09	17
26	675	.09	.09	17
27	700	.09	.09	17
28	725	.09	.09	17
29	750	.09	.09	17
30	775	.09	.09	17
31	800	.09	.09	17
32	825	.09	.09	17
33	850	.09	.09	17
34	875	.09	.09	17
35	900	.09	.09	17
36	925	.09	.09	17
37	950	.09	.09	17
38	975	.09	.09	17
39	1000	.09	.09	17
40	1025	.09	.09	17
41	1050	.09	.09	17
42	1075	.09	.09	17
43	1100	.09	.09	17
44	1125	.09	.09	17
45	1150	.09	.09	17
46	1175	.09	.09	17
47	1200	.09	.09	17
48	1225	.09	.09	17
49	1250	.09	.09	17
50	1275	.09	.09	17
51	1300	.09	.09	17
52	1325	.09	.09	17
53	1350	.09	.09	17
54	1375	.09	.09	17
55	1400	.09	.09	17
56	1425	.09	.09	17
57	1450	.09	.09	17
58	1475	.09	.09	17
59	1500	.09	.09	17
60	1525	.09	.09	17

NORMALIZED VELOCITY PROFILE B33302 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.07	.07	16.1
2	75	.07	.07	14.5
3	100	.07	.07	14.5
4	125	.07	.07	14.5
5	150	.07	.07	14.5
6	175	.07	.07	14.5
7	200	.07	.07	14.5
8	225	.07	.07	14.5
9	250	.07	.07	14.5
10	275	.07	.07	14.5
11	300	.07	.07	14.5
12	325	.07	.07	14.5
13	350	.07	.07	14.5
14	375	.07	.07	14.5
15	400	.07	.07	14.5
16	425	.07	.07	14.5
17	450	.07	.07	14.5
18	475	.07	.07	14.5
19	500	.07	.07	14.5
20	525	.07	.07	14.5
21	550	.07	.07	14.5
22	575	.07	.07	14.5
23	600	.07	.07	14.5
24	625	.07	.07	14.5
25	650	.07	.07	14.5
26	675	.07	.07	14.5
27	700	.07	.07	14.5
28	725	.07	.07	14.5
29	750	.07	.07	14.5
30	775	.07	.07	14.5
31	800	.07	.07	14.5
32	825	.07	.07	14.5
33	850	.07	.07	14.5
34	875	.07	.07	14.5
35	900	.07	.07	14.5
36	925	.07	.07	14.5
37	950	.07	.07	14.5
38	975	.07	.07	14.5
39	1000	.07	.07	14.5
40	1025	.07	.07	14.5
41	1050	.07	.07	14.5
42	1075	.07	.07	14.5
43	1100	.07	.07	14.5
44	1125	.07	.07	14.5
45	1150	.07	.07	14.5
46	1175	.07	.07	14.5
47	1200	.07	.07	14.5
48	1225	.07	.07	14.5
49	1250	.07	.07	14.5
50	1275	.07	.07	14.5
51	1300	.07	.07	14.5
52	1325	.07	.07	14.5
53	1350	.07	.07	14.5
54	1375	.07	.07	14.5
55	1400	.07	.07	14.5
56	1425	.07	.07	14.5
57	1450	.07	.07	14.5
58	1475	.07	.07	14.5
59	1500	.07	.07	14.5
60	1525	.07	.07	14.5

NORMALIZED VELOCITY PROFILE B33322 REF. VEL. 31.1 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.09	.11	17
2	20	.09	.11	17
3	30	.09	.11	17
4	40	.09	.11	17
5	50	.09	.11	17
6	60	.09	.11	17
7	70	.09	.11	17
8	80	.09	.11	17
9	90	.09	.11	17
10	100	.09	.11	17
11	110	.09	.11	17
12	120	.09	.11	17
13	130	.09	.11	17
14	140	.09	.11	17
15	150	.09	.11	17
16	160	.09	.11	17
17	170	.09	.11	17
18	180	.09	.11	17
19	190	.09	.11	17
20	200	.09	.11	17
21	210	.09	.11	17
22	220	.09	.11	17
23	230	.09	.11	17
24	240	.09	.11	17
25	250	.09	.11	17
26	260	.09	.11	17
27	270	.09	.11	17
28	280	.09	.11	17
29	290	.09	.11	17
30	300	.09	.11	17
31	310	.09	.11	17
32	320	.09	.11	17
33	330	.09	.11	17
34	340	.09	.11	17
35	350	.09	.11	17
36	360	.09	.11	17
37	370	.09	.11	17
38	380	.09	.11	17
39	390	.09	.11	17
40	400	.09	.11	17
41	410	.09	.11	17
42	420	.09	.11	17
43	430	.09	.11	17
44	440	.09	.11	17
45	450	.09	.11	17
46	460	.09	.11	17
47	470	.09	.11	17
48	480	.09	.11	17
49	490	.09	.11	17
50	500	.09	.11	17
51	510	.09	.11	17
52	520	.09	.11	17

NORMALIZED VELOCITY PROFILE B33323 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.09	.12	21
2	20	.09	.12	21
3	30	.09	.12	21
4	40	.09	.12	21
5	50	.09	.12	21
6	60	.09	.12	21
7	70	.09	.12	21
8	80	.09	.12	21
9	90	.09	.12	21
10	100	.09	.12	21
11	110	.09	.12	21
12	120	.09	.12	21
13	130	.09	.12	21
14	140	.09	.12	21
15	150	.09	.12	21
16	160	.09	.12	21
17	170	.09	.12	21
18	180	.09	.12	21
19	190	.09	.12	21
20	200	.09	.12	21
21	210	.09	.12	21
22	220	.09	.12	21
23	230	.09	.12	21
24	240	.09	.12	21
25	250	.09	.12	21
26	260	.09	.12	21
27	270	.09	.12	21
28	280	.09	.12	21
29	290	.09	.12	21
30	300	.09	.12	21
31	310	.09	.12	21
32	320	.09	.12	21
33	330	.09	.12	21
34	340	.09	.12	21
35	350	.09	.12	21
36	360	.09	.12	21
37	370	.09	.12	21
38	380	.09	.12	21
39	390	.09	.12	21
40	400	.09	.12	21
41	410	.09	.12	21
42	420	.09	.12	21
43	430	.09	.12	21
44	440	.09	.12	21
45	450	.09	.12	21
46	460	.09	.12	21
47	470	.09	.12	21
48	480	.09	.12	21
49	490	.09	.12	21
50	500	.09	.12	21
51	510	.09	.12	21
52	520	.09	.12	21

NORMALIZED VELOCITY PROFILE B33324 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.09	.10	11
2	20	.09	.10	11
3	30	.09	.10	11
4	40	.09	.10	11
5	50	.09	.10	11
6	60	.09	.10	11
7	70	.09	.10	11
8	80	.09	.10	11
9	90	.09	.10	11
10	100	.09	.10	11
11	110	.09	.10	11
12	120	.09	.10	11
13	130	.09	.10	11
14	140	.09	.10	11
15	150	.09	.10	11
16	160	.09	.10	11
17	170	.09	.10	11
18	180	.09	.10	11
19	190	.09	.10	11
20	200	.09	.10	11
21	210	.09	.10	11
22	220	.09	.10	11
23	230	.09	.10	11
24	240	.09	.10	11
25	250	.09	.10	11
26	260	.09	.10	11
27	270	.09	.10	11
28	280	.09	.10	11
29	290	.09	.10	11
30	300	.09	.10	11
31	310	.09	.10	11
32	320	.09	.10	11
33	330	.09	.10	11
34	340	.09	.10	11
35	350	.09	.10	11
36	360	.09	.10	11
37	370	.09	.10	11
38	380	.09	.10	11
39	390	.09	.10	11
40	400	.09	.10	11
41	410	.09	.10	11
42	420	.09	.10	11
43	430	.09	.10	11
44	440	.09	.10	11
45	450	.09	.10	11
46	460	.09	.10	11
47	470	.09	.10	11
48	480	.09	.10	11
49	490	.09	.10	11
50	500	.09	.10	11
51	510	.09	.10	11
52	520	.09	.10	11

NORMALIZED VELOCITY PROFILE B33325 REF. VEL. 31.5 FPS

TEST ZONE = B WIND DIRECTION = NW
 TIME OF DAY = STOWED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.09	.09	11
2	20	.09	.09	11
3	30	.09	.09	11
4	40	.09	.09	11
5	50	.09	.09	11
6	60	.09	.09	11
7	70	.09	.09	11
8	80	.09	.09	11
9	90	.09	.09	11
10	100	.09	.09	11
11	110	.09	.09	11
12	120	.09	.09	11
13	130	.09	.09	11
14	140	.09	.09	11
15	150	.09	.09	11
16	160	.09	.09	11
17	170	.09	.09	11
18	180	.09	.09	11
19	190	.09	.09	11
20	200	.09	.09	11
21	210	.09	.09	11
22	220	.09	.09	11
23	230	.09	.09	11
24	240	.09	.09	11
25	250	.09	.09	11
26	260	.09	.09	11
27	270	.09	.09	11
28	280	.09	.09	11
29	290	.09	.09	11
30	300	.09	.09	11
31	310	.09	.09	11
32	320	.09	.09	11
33	330	.09	.09	11
34	340	.09	.09	11
35	350	.09	.09	11
36	360	.09	.09	11
37	370	.09	.09	11
38	380	.09	.09	11
39	390	.09	.09	11
40	400	.09	.09	11
41	410	.09	.09	11
42	420	.09	.09	11
43	430	.09	.09	11
44	440	.09	.09	11
45	450	.09	.09	11
46	460	.09	.09	11
47	470	.09	.09	11
48	480	.09	.09	11
49	490	.09	.09	11
50	500	.09	.09	11
51	510	.09	.09	11
52	520	.09	.09	11

NORMALIZED VELOCITY PROFILE B53305 REF. VEL. 31.2 FPS

TEST ZONE = 0 WIND DIRECTION = NE
 TIME OF DAY = STOWED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/URMS (U/UREF)	TURB INT (PERCENT)
1	10	.46	.07	14.3
2	11	.48	.07	14.3
3	12	.51	.07	14.3
4	13	.53	.07	14.3
5	14	.55	.07	14.3
6	15	.57	.07	14.3
7	16	.59	.07	14.3
8	17	.61	.07	14.3
9	18	.63	.07	14.3
10	19	.65	.07	14.3
11	20	.67	.07	14.3
12	21	.69	.07	14.3
13	22	.71	.07	14.3
14	23	.73	.07	14.3
15	24	.75	.07	14.3
16	25	.77	.07	14.3
17	26	.79	.07	14.3
18	27	.81	.07	14.3
19	28	.83	.07	14.3
20	29	.85	.07	14.3
21	30	.87	.07	14.3
22	31	.89	.07	14.3
23	32	.91	.06	6.9

NORMALIZED VELOCITY PROFILE B53321 REF. VEL. 31.2 FPS

TEST ZONE = 0 WIND DIRECTION = NE
 TIME OF DAY = STOWED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/URMS (U/UREF)	TURB INT (PERCENT)
1	10	.30	.05	16.4
2	11	.32	.05	16.4
3	12	.34	.05	16.4
4	13	.36	.05	16.4
5	14	.38	.05	16.4
6	15	.40	.05	16.4
7	16	.42	.05	16.4
8	17	.44	.05	16.4
9	18	.46	.05	16.4
10	19	.48	.05	16.4
11	20	.50	.05	16.4
12	21	.52	.05	16.4
13	22	.54	.05	16.4
14	23	.56	.05	16.4
15	24	.58	.05	16.4
16	25	.60	.05	16.4
17	26	.62	.05	16.4
18	27	.64	.05	16.4
19	28	.66	.05	16.4
20	29	.68	.05	16.4
21	30	.70	.05	16.4
22	31	.72	.05	16.4
23	32	.74	.05	16.4
24	33	.76	.05	16.4
25	34	.78	.05	16.4
26	35	.80	.05	16.4
27	36	.82	.05	16.4
28	37	.84	.05	16.4
29	38	.86	.05	16.4
30	39	.88	.05	16.4
31	40	.90	.05	16.4
32	41	.92	.05	16.4
33	42	.94	.05	16.4
34	43	.96	.05	16.4
35	44	.98	.05	16.4
36	45	1.00	.05	16.4
37	46	1.02	.05	16.4
38	47	1.04	.05	16.4
39	48	1.06	.05	16.4
40	49	1.08	.05	16.4
41	50	1.10	.05	16.4
42	51	1.12	.05	16.4
43	52	1.14	.05	16.4
44	53	1.16	.05	16.4
45	54	1.18	.05	16.4
46	55	1.20	.05	16.4
47	56	1.22	.05	16.4
48	57	1.24	.05	16.4
49	58	1.26	.05	16.4
50	59	1.28	.05	16.4
51	60	1.30	.05	16.4
52	61	1.32	.05	16.4
53	62	1.34	.05	16.4
54	63	1.36	.05	16.4
55	64	1.38	.05	16.4
56	65	1.40	.05	16.4
57	66	1.42	.05	16.4
58	67	1.44	.05	16.4
59	68	1.46	.05	16.4
60	69	1.48	.05	16.4
61	70	1.50	.05	16.4
62	71	1.52	.05	16.4
63	72	1.54	.05	16.4
64	73	1.56	.05	16.4
65	74	1.58	.05	16.4
66	75	1.60	.05	16.4
67	76	1.62	.05	16.4
68	77	1.64	.05	16.4
69	78	1.66	.05	16.4
70	79	1.68	.05	16.4
71	80	1.70	.05	16.4
72	81	1.72	.05	16.4
73	82	1.74	.05	16.4
74	83	1.76	.05	16.4
75	84	1.78	.05	16.4
76	85	1.80	.05	16.4
77	86	1.82	.05	16.4
78	87	1.84	.05	16.4
79	88	1.86	.05	16.4
80	89	1.88	.05	16.4
81	90	1.90	.05	16.4
82	91	1.92	.05	16.4
83	92	1.94	.05	16.4
84	93	1.96	.05	16.4
85	94	1.98	.05	16.4
86	95	2.00	.05	16.4
87	96	2.02	.05	16.4
88	97	2.04	.05	16.4
89	98	2.06	.05	16.4
90	99	2.08	.05	16.4
91	100	2.10	.05	16.4
92	101	2.12	.05	16.4
93	102	2.14	.05	16.4
94	103	2.16	.05	16.4
95	104	2.18	.05	16.4
96	105	2.20	.05	16.4
97	106	2.22	.05	16.4
98	107	2.24	.05	16.4
99	108	2.26	.05	16.4
100	109	2.28	.05	16.4
101	110	2.30	.05	16.4
102	111	2.32	.05	16.4
103	112	2.34	.05	16.4
104	113	2.36	.05	16.4
105	114	2.38	.05	16.4
106	115	2.40	.05	16.4
107	116	2.42	.05	16.4
108	117	2.44	.05	16.4
109	118	2.46	.05	16.4
110	119	2.48	.05	16.4
111	120	2.50	.05	16.4
112	121	2.52	.05	16.4
113	122	2.54	.05	16.4
114	123	2.56	.05	16.4
115	124	2.58	.05	16.4
116	125	2.60	.05	16.4
117	126	2.62	.05	16.4
118	127	2.64	.05	16.4
119	128	2.66	.05	16.4
120	129	2.68	.05	16.4
121	130	2.70	.05	16.4
122	131	2.72	.05	16.4
123	132	2.74	.05	16.4
124	133	2.76	.05	16.4
125	134	2.78	.05	16.4
126	135	2.80	.05	16.4
127	136	2.82	.05	16.4
128	137	2.84	.05	16.4
129	138	2.86	.05	16.4
130	139	2.88	.05	16.4
131	140	2.90	.05	16.4
132	141	2.92	.05	16.4
133	142	2.94	.05	16.4
134	143	2.96	.05	16.4
135	144	2.98	.05	16.4
136	145	3.00	.05	16.4
137	146	3.02	.05	16.4
138	147	3.04	.05	16.4
139	148	3.06	.05	16.4
140	149	3.08	.05	16.4
141	150	3.10	.05	16.4
142	151	3.12	.05	16.4
143	152	3.14	.05	16.4
144	153	3.16	.05	16.4
145	154	3.18	.05	16.4
146	155	3.20	.05	16.4
147	156	3.22	.05	16.4
148	157	3.24	.05	16.4
149	158	3.26	.05	16.4
150	159	3.28	.05	16.4
151	160	3.30	.05	16.4
152	161	3.32	.05	16.4
153	162	3.34	.05	16.4
154	163	3.36	.05	16.4
155	164	3.38	.05	16.4
156	165	3.40	.05	16.4
157	166	3.42	.05	16.4
158	167	3.44	.05	16.4
159	168	3.46	.05	16.4
160	169	3.48	.05	16.4
161	170	3.50	.05	16.4
162	171	3.52	.05	16.4
163	172	3.54	.05	16.4
164	173	3.56	.05	16.4
165	174	3.58	.05	16.4
166	175	3.60	.05	16.4
167	176	3.62	.05	16.4
168	177	3.64	.05	16.4
169	178	3.66	.05	16.4
170	179	3.68	.05	16.4
171	180	3.70	.05	16.4
172	181	3.72	.05	16.4
173	182	3.74	.05	16.4
174	183	3.76	.05	16.4
175	184	3.78	.05	16.4
176	185	3.80	.05	16.4
177	186	3.82	.05	16.4
178	187	3.84	.05	16.4
179	188	3.86	.05	16.4
180	189	3.88	.05	16.4
181	190	3.90	.05	16.4
182	191	3.92	.05	16.4
183	192	3.94	.05	16.4
184	193	3.96	.05	16.4
185	194	3.98	.05	16.4
186	195	4.00	.05	16.4
187	196	4.02	.05	16.4
188	197	4.04	.05	16.4
189	198	4.06	.05	16.4
190	199	4.08	.05	16.4
191	200	4.10	.05	16.4
192	201	4.12	.05	16.4
193	202	4.14	.05	16.4
194	203	4.16	.05	16.4
195	204	4.18	.05	16.4
196	205	4.20	.05	16.4
197	206	4.22	.05	16.4
198	207	4.24	.05	16.4
199	208	4.26	.05	16.4
200	209	4.28	.05	16.4
201	210	4.30	.05	16.4
202	211	4.32	.05	16.4
203	212	4.34	.05	16.4
204	213	4.36	.05	16.4
205	214	4.38	.05	16.4
206	215	4.40	.05	16.4
207	216	4.42	.05	16.4
208	217	4.44	.05	16.4
209	218	4.46	.05	16.4
210	219	4.48	.05	16.4
211	220	4.50	.05	16.4
212	221	4.52	.05	16.4
213	222	4.54	.05	16.4
214	223	4.56	.05	16.4
215	224	4.58	.05	16.4
216	225	4.60	.05	16.4
217	226	4.62	.05	16.4
218	227	4.64	.05	16.4
219	228	4.66	.05	16.4
220	229	4.68	.05	16.4
221	230	4.70	.05	16.4
222	231	4.72	.05	16.4
223	232	4.74	.05	16.4
224	233	4.76	.05	16.4
225	234	4.78	.05	16.4
226	235	4.80	.05	16.4
227	236	4.82	.05	16.4
228	237	4.84	.05	16.4
229	238	4.86	.05	16.4
230	239	4.88	.05	16.4
231	240	4.90	.05	16.4
232	241	4.92	.05	16.4
233	242	4.94	.05	16.4
234	243	4.96	.05	16.4
235	244	4.98	.05	16.4
236	245	5.00	.05	16.4
237	246	5.02	.05	16.4
238	247	5.04	.05	16.4
239	248	5.06	.05	16.4
240	249	5.08	.05	16.4
241	250	5.10	.05	16.4
242	251	5.12	.05	16.4
243	252	5.14	.05	16.4

ANALYZED VELOCITY PROFILE B53324 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	U/UREF	TURB INT PERCENT
1	10	0.00	0.07	17.3
2	15	0.00	0.08	17.1
3	20	0.00	0.09	17.0
4	25	0.00	0.10	16.9
5	30	0.00	0.10	16.8
6	35	0.00	0.09	16.7
7	40	0.00	0.08	16.6
8	45	0.00	0.07	16.5
9	50	0.00	0.06	16.4
10	55	0.00	0.05	16.3
11	60	0.00	0.04	16.2
12	65	0.00	0.03	16.1
13	70	0.00	0.02	16.0
14	75	0.00	0.01	15.9
15	80	0.00	0.00	15.8
16	85	0.00	0.00	15.7
17	90	0.00	0.00	15.6
18	95	0.00	0.00	15.5
19	100	0.00	0.00	15.4
20	105	0.00	0.00	15.3
21	110	0.00	0.00	15.2
22	115	0.00	0.00	15.1
23	120	0.00	0.00	15.0
24	125	0.00	0.00	14.9
25	130	0.00	0.00	14.8
26	135	0.00	0.00	14.7
27	140	0.00	0.00	14.6
28	145	0.00	0.00	14.5
29	150	0.00	0.00	14.4
30	155	0.00	0.00	14.3
31	160	0.00	0.00	14.2
32	165	0.00	0.00	14.1
33	170	0.00	0.00	14.0
34	175	0.00	0.00	13.9
35	180	0.00	0.00	13.8
36	185	0.00	0.00	13.7
37	190	0.00	0.00	13.6
38	195	0.00	0.00	13.5
39	200	0.00	0.00	13.4
40	205	0.00	0.00	13.3
41	210	0.00	0.00	13.2
42	215	0.00	0.00	13.1
43	220	0.00	0.00	13.0
44	225	0.00	0.00	12.9
45	230	0.00	0.00	12.8
46	235	0.00	0.00	12.7
47	240	0.00	0.00	12.6
48	245	0.00	0.00	12.5
49	250	0.00	0.00	12.4
50	255	0.00	0.00	12.3
51	260	0.00	0.00	12.2
52	265	0.00	0.00	12.1
53	270	0.00	0.00	12.0
54	275	0.00	0.00	11.9
55	280	0.00	0.00	11.8
56	285	0.00	0.00	11.7
57	290	0.00	0.00	11.6
58	295	0.00	0.00	11.5
59	300	0.00	0.00	11.4
60	305	0.00	0.00	11.3
61	310	0.00	0.00	11.2
62	315	0.00	0.00	11.1
63	320	0.00	0.00	11.0
64	325	0.00	0.00	10.9
65	330	0.00	0.00	10.8
66	335	0.00	0.00	10.7
67	340	0.00	0.00	10.6
68	345	0.00	0.00	10.5
69	350	0.00	0.00	10.4
70	355	0.00	0.00	10.3
71	360	0.00	0.00	10.2
72	365	0.00	0.00	10.1
73	370	0.00	0.00	10.0
74	375	0.00	0.00	9.9
75	380	0.00	0.00	9.8
76	385	0.00	0.00	9.7
77	390	0.00	0.00	9.6
78	395	0.00	0.00	9.5
79	400	0.00	0.00	9.4
80	405	0.00	0.00	9.3
81	410	0.00	0.00	9.2
82	415	0.00	0.00	9.1
83	420	0.00	0.00	9.0
84	425	0.00	0.00	8.9
85	430	0.00	0.00	8.8
86	435	0.00	0.00	8.7
87	440	0.00	0.00	8.6
88	445	0.00	0.00	8.5
89	450	0.00	0.00	8.4
90	455	0.00	0.00	8.3
91	460	0.00	0.00	8.2
92	465	0.00	0.00	8.1
93	470	0.00	0.00	8.0
94	475	0.00	0.00	7.9
95	480	0.00	0.00	7.8
96	485	0.00	0.00	7.7
97	490	0.00	0.00	7.6
98	495	0.00	0.00	7.5
99	500	0.00	0.00	7.4
100	505	0.00	0.00	7.3
101	510	0.00	0.00	7.2
102	515	0.00	0.00	7.1
103	520	0.00	0.00	7.0
104	525	0.00	0.00	6.9
105	530	0.00	0.00	6.8
106	535	0.00	0.00	6.7
107	540	0.00	0.00	6.6
108	545	0.00	0.00	6.5
109	550	0.00	0.00	6.4
110	555	0.00	0.00	6.3
111	560	0.00	0.00	6.2
112	565	0.00	0.00	6.1
113	570	0.00	0.00	6.0
114	575	0.00	0.00	5.9
115	580	0.00	0.00	5.8
116	585	0.00	0.00	5.7
117	590	0.00	0.00	5.6
118	595	0.00	0.00	5.5
119	600	0.00	0.00	5.4
120	605	0.00	0.00	5.3
121	610	0.00	0.00	5.2
122	615	0.00	0.00	5.1
123	620	0.00	0.00	5.0
124	625	0.00	0.00	4.9
125	630	0.00	0.00	4.8
126	635	0.00	0.00	4.7
127	640	0.00	0.00	4.6
128	645	0.00	0.00	4.5
129	650	0.00	0.00	4.4
130	655	0.00	0.00	4.3
131	660	0.00	0.00	4.2
132	665	0.00	0.00	4.1
133	670	0.00	0.00	4.0
134	675	0.00	0.00	3.9
135	680	0.00	0.00	3.8
136	685	0.00	0.00	3.7
137	690	0.00	0.00	3.6
138	695	0.00	0.00	3.5
139	700	0.00	0.00	3.4
140	705	0.00	0.00	3.3
141	710	0.00	0.00	3.2
142	715	0.00	0.00	3.1
143	720	0.00	0.00	3.0
144	725	0.00	0.00	2.9
145	730	0.00	0.00	2.8
146	735	0.00	0.00	2.7
147	740	0.00	0.00	2.6
148	745	0.00	0.00	2.5
149	750	0.00	0.00	2.4
150	755	0.00	0.00	2.3
151	760	0.00	0.00	2.2
152	765	0.00	0.00	2.1
153	770	0.00	0.00	2.0
154	775	0.00	0.00	1.9
155	780	0.00	0.00	1.8
156	785	0.00	0.00	1.7
157	790	0.00	0.00	1.6
158	795	0.00	0.00	1.5
159	800	0.00	0.00	1.4
160	805	0.00	0.00	1.3
161	810	0.00	0.00	1.2
162	815	0.00	0.00	1.1
163	820	0.00	0.00	1.0
164	825	0.00	0.00	0.9
165	830	0.00	0.00	0.8
166	835	0.00	0.00	0.7
167	840	0.00	0.00	0.6
168	845	0.00	0.00	0.5
169	850	0.00	0.00	0.4
170	855	0.00	0.00	0.3
171	860	0.00	0.00	0.2
172	865	0.00	0.00	0.1
173	870	0.00	0.00	0.0
174	875	0.00	0.00	0.0
175	880	0.00	0.00	0.0
176	885	0.00	0.00	0.0
177	890	0.00	0.00	0.0
178	895	0.00	0.00	0.0
179	900	0.00	0.00	0.0
180	905	0.00	0.00	0.0
181	910	0.00	0.00	0.0
182	915	0.00	0.00	0.0
183	920	0.00	0.00	0.0
184	925	0.00	0.00	0.0
185	930	0.00	0.00	0.0
186	935	0.00	0.00	0.0
187	940	0.00	0.00	0.0
188	945	0.00	0.00	0.0
189	950	0.00	0.00	0.0
190	955	0.00	0.00	0.0
191	960	0.00	0.00	0.0
192	965	0.00	0.00	0.0
193	970	0.00	0.00	0.0
194	975	0.00	0.00	0.0
195	980	0.00	0.00	0.0
196	985	0.00	0.00	0.0
197	990	0.00	0.00	0.0
198	995	0.00	0.00	0.0
199	1000	0.00	0.00	0.0

NORMALIZED VELOCITY PROFILE A53325 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE
 TIME OF DAY = STOWED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	U/UREF	TURB INT PERCENT
1	10	0.00	0.07	17.3
2	15	0.00	0.08	17.1
3	20	0.00	0.09	17.0
4	25	0.00	0.10	16.9
5	30	0.00	0.10	16.8
6	35	0.00	0.09	16.7
7	40	0.00	0.08	16.6
8	45	0.00	0.07	16.5
9	50	0.00	0.06	16.4
10	55	0.00	0.05	16.3
11	60	0.00	0.04	16.2
12	65	0.00	0.03	16.1
13	70	0.00	0.02	16.0
14	75	0.00	0.01	15.9
15	80	0.00	0.00	15.8
16	85	0.00	0.00	15.7
17	90	0.00	0.00	15.6
18	95	0.00	0.00	15.5
19	100	0.00	0.00	15.4
20	105	0.00	0.00	15.3
21	110	0.00	0.00	15.2
22	115	0.00	0.00	15.1
23	120	0.00	0.00	15.0
24	125	0.00	0.00	14.9
25	130	0.00	0.00	14.8
26	135	0.00	0.00	14.7
27	140	0.00	0.00	14.6
28	145	0.00	0.00	14.5
29	150	0.00	0.00	14.4
30	155	0.00	0.00	14.3
31	160	0.00	0.00	14.2
32	165	0.00	0.00	14.1
33	170	0.00	0.00	14.0
34	175	0.00	0.00	13.9
35	180	0.00	0.00	13.8
36	185	0.00	0.00	13.7
37	190	0.00	0.00	13.6
38	195	0.00	0.00	13.5
39	200	0.00	0.00	13.4
40	205	0.00	0.00	13.3
41	210	0.00	0.00	13.2
42	215	0.00	0.00	13.1
43	220	0.00	0.00	13.0
44	225	0.00	0.00	12.9
45	230	0.00	0.00	12.8
46	235	0.00	0.00	12.7
47	240	0.00	0.00	12.6
48	245	0.00	0.00	12.5
49	250	0.00	0.00	12.4
50	255	0.00	0.00	12.3
51	260	0.00	0.00	12.2
52	265	0.00	0.00	12.1
53	270	0.00	0.00	12.0
54	275	0.00	0.00	11.9
55	280	0.00	0.00	11.8
56	285	0.00		

NORMALIZED VELOCITY PROFILE B63101 REF. VEL. 30.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	5	.39	.07	17.7
2	10	.60	.08	12.7
3	15	.76	.08	12.4
4	20	.86	.08	11.7
5	25	.91	.08	11.0
6	30	.94	.08	10.8
7	35	.96	.08	10.7
8	40	.97	.07	10.0
9	45	.98	.07	9.9
10	50	.99	.07	9.9
11	55	.99	.07	9.9
12	60	.99	.07	9.9
13	65	.99	.07	9.9
14	70	.99	.07	9.9
15	75	.99	.07	9.9
16	80	.99	.07	9.9
17	85	.99	.07	9.9
18	90	.99	.07	9.9
19	95	.99	.07	9.9
20	100	.99	.07	9.9

NORMALIZED VELOCITY PROFILE B63121 REF. VEL. 30.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	5	.16	.05	28.7
2	10	.17	.05	29.4
3	15	.21	.05	29.4
4	20	.24	.05	29.4
5	25	.27	.05	29.4
6	30	.29	.05	29.4
7	35	.31	.05	29.4
8	40	.32	.05	29.4
9	45	.33	.05	29.4
10	50	.34	.05	29.4
11	55	.35	.05	29.4
12	60	.35	.05	29.4
13	65	.35	.05	29.4
14	70	.35	.05	29.4
15	75	.35	.05	29.4
16	80	.35	.05	29.4
17	85	.35	.05	29.4
18	90	.35	.05	29.4
19	95	.35	.05	29.4
20	100	.35	.05	29.4

NORMALIZED VELOCITY PROFILE B63102 REF. VEL. 30.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	5	.24	.11	45.7
2	10	.27	.12	48.2
3	15	.28	.13	45.7
4	20	.29	.14	41.7
5	25	.30	.15	39.6
6	30	.31	.16	34.1
7	35	.32	.16	26.9
8	40	.33	.17	18.1
9	45	.34	.18	10.0
10	50	.35	.18	8.7
11	55	.35	.17	7.3

NORMALIZED VELOCITY PROFILE B63122 REF. VEL. 30.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	5	.16	.09	56.3
2	10	.19	.10	58.6
3	15	.23	.12	58.6
4	20	.27	.14	49.7
5	25	.30	.15	40.8
6	30	.33	.16	31.9
7	35	.35	.17	23.0
8	40	.36	.17	14.1
9	45	.37	.18	10.0
10	50	.38	.18	8.7
11	55	.38	.17	7.3

NORMALIZED VELOCITY PROFILE B63103 REF. VEL. 30.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	3	.229	.08	27.4
11	1	.329	.08	18.1
11	1	.429	.12	18.1
11	1	.511	.15	18.1
11	1	.656	.16	18.1
11	1	.774	.14	18.1
11	1	.887	.09	18.1
11	1	.999	.06	18.1

NORMALIZED VELOCITY PROFILE B63123 REF. VEL. 30.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	3	.216	.09	26.3
11	1	.316	.10	18.1
11	1	.416	.11	18.1
11	1	.511	.12	18.1
11	1	.609	.13	18.1
11	1	.707	.14	18.1
11	1	.804	.09	18.1
11	1	.901	.08	18.1

NORMALIZED VELOCITY PROFILE B63104 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	3	.15	.09	5.5
11	1	.10	.08	1.1
11	1	.11	.10	4.4
11	1	.12	.11	4.4
11	1	.13	.12	4.4
11	1	.14	.13	4.4
11	1	.15	.14	4.4
11	1	.16	.15	4.4
11	1	.17	.16	4.4
11	1	.18	.17	4.4
11	1	.19	.18	4.4
11	1	.20	.19	4.4
11	1	.21	.20	4.4
11	1	.22	.21	4.4
11	1	.23	.22	4.4
11	1	.24	.23	4.4
11	1	.25	.24	4.4
11	1	.26	.25	4.4
11	1	.27	.26	4.4
11	1	.28	.27	4.4
11	1	.29	.28	4.4
11	1	.30	.29	4.4
11	1	.31	.30	4.4
11	1	.32	.31	4.4
11	1	.33	.32	4.4
11	1	.34	.33	4.4
11	1	.35	.34	4.4
11	1	.36	.35	4.4
11	1	.37	.36	4.4
11	1	.38	.37	4.4
11	1	.39	.38	4.4
11	1	.40	.39	4.4
11	1	.41	.40	4.4
11	1	.42	.41	4.4
11	1	.43	.42	4.4
11	1	.44	.43	4.4
11	1	.45	.44	4.4
11	1	.46	.45	4.4
11	1	.47	.46	4.4
11	1	.48	.47	4.4
11	1	.49	.48	4.4
11	1	.50	.49	4.4
11	1	.51	.50	4.4
11	1	.52	.51	4.4
11	1	.53	.52	4.4
11	1	.54	.53	4.4
11	1	.55	.54	4.4
11	1	.56	.55	4.4
11	1	.57	.56	4.4
11	1	.58	.57	4.4
11	1	.59	.58	4.4
11	1	.60	.59	4.4
11	1	.61	.60	4.4
11	1	.62	.61	4.4
11	1	.63	.62	4.4
11	1	.64	.63	4.4
11	1	.65	.64	4.4
11	1	.66	.65	4.4
11	1	.67	.66	4.4
11	1	.68	.67	4.4
11	1	.69	.68	4.4
11	1	.70	.69	4.4
11	1	.71	.70	4.4
11	1	.72	.71	4.4
11	1	.73	.72	4.4
11	1	.74	.73	4.4
11	1	.75	.74	4.4
11	1	.76	.75	4.4
11	1	.77	.76	4.4
11	1	.78	.77	4.4
11	1	.79	.78	4.4
11	1	.80	.79	4.4
11	1	.81	.80	4.4
11	1	.82	.81	4.4
11	1	.83	.82	4.4
11	1	.84	.83	4.4
11	1	.85	.84	4.4
11	1	.86	.85	4.4
11	1	.87	.86	4.4
11	1	.88	.87	4.4
11	1	.89	.88	4.4
11	1	.90	.89	4.4
11	1	.91	.90	4.4
11	1	.92	.91	4.4
11	1	.93	.92	4.4
11	1	.94	.93	4.4
11	1	.95	.94	4.4
11	1	.96	.95	4.4
11	1	.97	.96	4.4
11	1	.98	.97	4.4
11	1	.99	.98	4.4
11	1	1.00	.99	4.4

NORMALIZED VELOCITY PROFILE B63124 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	3	.10	.08	6.9
11	1	.10	.10	1.1
11	1	.11	.11	4.4
11	1	.12	.12	4.4
11	1	.13	.13	4.4
11	1	.14	.14	4.4
11	1	.15	.15	4.4
11	1	.16	.16	4.4
11	1	.17	.17	4.4
11	1	.18	.18	4.4
11	1	.19	.19	4.4
11	1	.20	.20	4.4
11	1	.21	.21	4.4
11	1	.22	.22	4.4
11	1	.23	.23	4.4
11	1	.24	.24	4.4
11	1	.25	.25	4.4
11	1	.26	.26	4.4
11	1	.27	.27	4.4
11	1	.28	.28	4.4
11	1	.29	.29	4.4
11	1	.30	.30	4.4
11	1	.31	.31	4.4
11	1	.32	.32	4.4
11	1	.33	.33	4.4
11	1	.34	.34	4.4
11	1	.35	.35	4.4
11	1	.36	.36	4.4
11	1	.37	.37	4.4
11	1	.38	.38	4.4
11	1	.39	.39	4.4
11	1	.40	.40	4.4
11	1	.41	.41	4.4
11	1	.42	.42	4.4
11	1	.43	.43	4.4
11	1	.44	.44	4.4
11	1	.45	.45	4.4
11	1	.46	.46	4.4
11	1	.47	.47	4.4
11	1	.48	.48	4.4
11	1	.49	.49	4.4
11	1	.50	.50	4.4
11	1	.51	.51	4.4
11	1	.52	.52	4.4
11	1	.53	.53	4.4
11	1	.54	.54	4.4
11	1	.55	.55	4.4
11	1	.56	.56	4.4
11	1	.57	.57	4.4
11	1	.58	.58	4.4
11	1	.59	.59	4.4
11	1	.60	.60	4.4
11	1	.61	.61	4.4
11	1	.62	.62	4.4
11	1	.63	.63	4.4
11	1	.64	.64	4.4
11	1	.65	.65	4.4
11	1	.66	.66	4.4
11	1	.67	.67	4.4
11	1	.68	.68	4.4
11	1	.69	.69	4.4
11	1	.70	.70	4.4
11	1	.71	.71	4.4
11	1	.72	.72	4.4
11	1	.73	.73	4.4
11	1	.74	.74	4.4
11	1	.75	.75	4.4
11	1	.76	.76	4.4
11	1	.77	.77	4.4
11	1	.78	.78	4.4
11	1	.79	.79	4.4
11	1	.80	.80	4.4
11	1	.81	.81	4.4
11	1	.82	.82	4.4
11	1	.83	.83	4.4
11	1	.84	.84	4.4
11	1	.85	.85	4.4
11	1	.86	.86	4.4
11	1	.87	.87	4.4
11	1	.88	.88	4.4
11	1	.89	.89	4.4
11	1	.90	.90	4.4
11	1	.91	.91	4.4
11	1	.92	.92	4.4
11	1	.93	.93	4.4
11	1	.94	.94	4.4
11	1	.95	.95	4.4
11	1	.96	.96	4.4
11	1	.97	.97	4.4
11	1	.98	.98	4.4
11	1	.99	.99	4.4
11	1	1.00	1.00	4.4

NORMALIZED VELOCITY PROFILE B63105 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.27	.11	3.9
2	.60	.31	.11	3.9
3	.70	.35	.11	3.9
4	.80	.39	.11	3.9
5	.90	.43	.11	3.9
6	1.00	.47	.11	3.9
7	1.10	.51	.11	3.9
8	1.20	.55	.11	3.9
9	1.30	.59	.11	3.9
10	1.40	.63	.11	3.9
11	1.50	.67	.11	3.9

NORMALIZED VELOCITY PROFILE B63125 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.29	.10	3.6
2	.60	.33	.11	3.6
3	.70	.37	.11	3.6
4	.80	.41	.11	3.6
5	.90	.45	.11	3.6
6	1.00	.49	.11	3.6
7	1.10	.53	.11	3.6
8	1.20	.57	.11	3.6
9	1.30	.61	.11	3.6
10	1.40	.65	.11	3.6
11	1.50	.69	.11	3.6

NORMALIZED VELOCITY PROFILE B63201 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.38	.08	14.5
2	.60	.40	.09	15.5
3	.70	.42	.09	16.5
4	.80	.44	.08	11.7
5	.90	.46	.08	10.0
6	1.00	.48	.08	9.9
7	1.10	.50	.07	9.9
8	1.20	.52	.07	9.9
9	1.30	.54	.07	9.9
10	1.40	.56	.07	9.9
11	1.50	.58	.07	9.9

NORMALIZED VELOCITY PROFILE B63121 REF. VEL. 30.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.05	2.8
2	.60	.17	.05	3.8
3	.70	.19	.05	4.4
4	.80	.20	.09	6.6
5	.90	.22	.14	9.9
6	1.00	.24	.14	11.1
7	1.10	.26	.14	11.1
8	1.20	.28	.09	8.4
9	1.30	.30	.07	7.6
10	1.40	.32	.07	7.6
11	1.50	.34	.07	7.6

NORMALIZED VELOCITY PROFILE B63202 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.14	.08	4.4
2	36	.14	.08	4.4
3	42	.14	.08	4.4
4	48	.14	.08	4.4
5	54	.14	.08	4.4
6	60	.14	.08	4.4
7	66	.14	.08	4.4
8	72	.14	.08	4.4
9	78	.14	.08	4.4
10	84	.14	.08	4.4
11	90	.14	.08	4.4

NORMALIZED VELOCITY PROFILE B63222 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.14	.08	4.4
2	36	.14	.08	4.4
3	42	.14	.08	4.4
4	48	.14	.08	4.4
5	54	.14	.08	4.4
6	60	.14	.08	4.4
7	66	.14	.08	4.4
8	72	.14	.08	4.4
9	78	.14	.08	4.4
10	84	.14	.08	4.4
11	90	.14	.08	4.4

NORMALIZED VELOCITY PROFILE B63203 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.14	.08	4.4
2	36	.14	.08	4.4
3	42	.14	.08	4.4
4	48	.14	.08	4.4
5	54	.14	.08	4.4
6	60	.14	.08	4.4
7	66	.14	.08	4.4
8	72	.14	.08	4.4
9	78	.14	.08	4.4
10	84	.14	.08	4.4
11	90	.14	.08	4.4

NORMALIZED VELOCITY PROFILE B63223 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	30	.14	.08	4.4
2	36	.14	.08	4.4
3	42	.14	.08	4.4
4	48	.14	.08	4.4
5	54	.14	.08	4.4
6	60	.14	.08	4.4
7	66	.14	.08	4.4
8	72	.14	.08	4.4
9	78	.14	.08	4.4
10	84	.14	.08	4.4
11	90	.14	.08	4.4

NORMALIZED VELOCITY PROFILE B63204 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.19	.09	50.2
10	50	.221	.11	43.7
11	50	.226	.11	44.7
12	50	.248	.11	46.9
13	50	.264	.11	48.2
14	50	.282	.11	50.7
15	50	.302	.11	53.4
16	50	.324	.11	56.2
17	50	.348	.11	59.1
18	50	.374	.11	62.1
19	50	.402	.11	65.2
20	50	.432	.11	68.4
21	50	.464	.11	71.7
22	50	.498	.11	75.1
23	50	.534	.11	78.6
24	50	.572	.11	82.2
25	50	.612	.11	85.9
26	50	.654	.11	89.7
27	50	.698	.11	93.6
28	50	.744	.11	97.6
29	50	.792	.11	101.7
30	50	.842	.11	105.9
31	50	.894	.11	110.2
32	50	.948	.11	114.6
33	50	1.004	.11	119.1
34	50	1.062	.11	123.7
35	50	1.122	.11	128.4
36	50	1.184	.11	133.2
37	50	1.248	.11	138.1
38	50	1.314	.11	143.1
39	50	1.382	.11	148.2
40	50	1.452	.11	153.4
41	50	1.524	.11	158.7
42	50	1.598	.11	164.1
43	50	1.674	.11	169.6
44	50	1.752	.11	175.2
45	50	1.832	.11	180.9
46	50	1.914	.11	186.7
47	50	1.998	.11	192.6
48	50	2.084	.11	198.6
49	50	2.172	.11	204.7
50	50	2.262	.11	210.9
51	50	2.354	.11	217.2
52	50	2.448	.11	223.6
53	50	2.544	.11	230.1
54	50	2.642	.11	236.7
55	50	2.742	.11	243.4
56	50	2.844	.11	250.2
57	50	2.948	.11	257.1
58	50	3.054	.11	264.1
59	50	3.162	.11	271.2
60	50	3.272	.11	278.4
61	50	3.384	.11	285.7
62	50	3.498	.11	293.1
63	50	3.614	.11	300.6
64	50	3.732	.11	308.2
65	50	3.852	.11	315.9
66	50	3.974	.11	323.7
67	50	4.098	.11	331.6
68	50	4.224	.11	339.6
69	50	4.352	.11	347.7
70	50	4.482	.11	355.9
71	50	4.614	.11	364.2
72	50	4.748	.11	372.6
73	50	4.884	.11	381.1
74	50	5.022	.11	389.7
75	50	5.162	.11	398.4
76	50	5.304	.11	407.2
77	50	5.448	.11	416.1
78	50	5.594	.11	425.1
79	50	5.742	.11	434.2
80	50	5.892	.11	443.4
81	50	6.044	.11	452.7
82	50	6.198	.11	462.1
83	50	6.354	.11	471.6
84	50	6.512	.11	481.2
85	50	6.672	.11	490.9
86	50	6.834	.11	500.7
87	50	6.998	.11	510.6
88	50	7.164	.11	520.6
89	50	7.332	.11	530.7
90	50	7.502	.11	540.9
91	50	7.674	.11	551.2
92	50	7.848	.11	561.6
93	50	8.024	.11	572.1
94	50	8.202	.11	582.7
95	50	8.382	.11	593.4
96	50	8.564	.11	604.2
97	50	8.748	.11	615.1
98	50	8.934	.11	626.1
99	50	9.122	.11	637.2
100	50	9.312	.11	648.4
101	50	9.504	.11	659.7
102	50	9.698	.11	671.1
103	50	9.894	.11	682.6
104	50	10.092	.11	694.2
105	50	10.292	.11	705.9
106	50	10.494	.11	717.7
107	50	10.698	.11	729.6
108	50	10.904	.11	741.6
109	50	11.112	.11	753.7
110	50	11.322	.11	765.9
111	50	11.534	.11	778.2
112	50	11.748	.11	790.6
113	50	11.964	.11	803.1
114	50	12.182	.11	815.7
115	50	12.402	.11	828.4
116	50	12.624	.11	841.2
117	50	12.848	.11	854.1
118	50	13.074	.11	867.1
119	50	13.302	.11	880.2
120	50	13.532	.11	893.4
121	50	13.764	.11	906.7
122	50	13.998	.11	920.1
123	50	14.234	.11	933.6
124	50	14.472	.11	947.2
125	50	14.712	.11	960.9
126	50	14.954	.11	974.7
127	50	15.198	.11	988.6
128	50	15.444	.11	1002.6
129	50	15.692	.11	1016.7
130	50	15.942	.11	1030.9
131	50	16.194	.11	1045.2
132	50	16.448	.11	1059.6
133	50	16.704	.11	1074.1
134	50	16.962	.11	1088.7
135	50	17.222	.11	1103.4
136	50	17.484	.11	1118.2
137	50	17.748	.11	1133.1
138	50	18.014	.11	1148.1
139	50	18.282	.11	1163.2
140	50	18.552	.11	1178.4
141	50	18.824	.11	1193.7
142	50	19.098	.11	1209.1
143	50	19.374	.11	1224.6
144	50	19.652	.11	1240.2
145	50	19.932	.11	1255.9
146	50	20.214	.11	1271.7
147	50	20.498	.11	1287.6
148	50	20.784	.11	1303.6
149	50	21.072	.11	1319.7
150	50	21.362	.11	1335.9
151	50	21.654	.11	1352.2
152	50	21.948	.11	1368.6
153	50	22.244	.11	1385.1
154	50	22.542	.11	1401.7
155	50	22.842	.11	1418.4
156	50	23.144	.11	1435.2
157	50	23.448	.11	1452.1
158	50	23.754	.11	1469.1
159	50	24.062	.11	1486.2
160	50	24.372	.11	1503.4
161	50	24.684	.11	1520.7
162	50	24.998	.11	1538.1
163	50	25.314	.11	1555.6
164	50	25.632	.11	1573.2
165	50	25.952	.11	1590.9
166	50	26.274	.11	1608.7
167	50	26.598	.11	1626.6
168	50	26.924	.11	1644.6
169	50	27.252	.11	1662.7
170	50	27.582	.11	1680.9
171	50	27.914	.11	1699.2
172	50	28.248	.11	1717.6
173	50	28.584	.11	1736.1
174	50	28.922	.11	1754.7
175	50	29.262	.11	1773.4
176	50	29.604	.11	1792.2
177	50	29.948	.11	1811.1
178	50	30.294	.11	1830.1
179	50	30.642	.11	1849.2
180	50	30.992	.11	1868.4
181	50	31.344	.11	1887.7
182	50	31.698	.11	1907.1
183	50	32.054	.11	1926.6
184	50	32.412	.11	1946.2
185	50	32.772	.11	1965.9
186	50	33.134	.11	1985.7
187	50	33.498	.11	2005.6
188	50	33.864	.11	2025.6
189	50	34.232	.11	2045.7
190	50	34.602	.11	2065.9
191	50	34.974	.11	2086.2
192	50	35.348	.11	2106.6
193	50	35.724	.11	2127.1
194	50	36.102	.11	2147.7
195	50	36.482	.11	2168.4
196	50	36.864	.11	2189.2
197	50	37.248	.11	2210.1
198	50	37.634	.11	2231.1
199	50	38.022	.11	2252.2
200	50	38.412	.11	2273.4
201	50	38.804	.11	2294.7
202	50	39.198	.11	2316.1
203	50	39.594	.11	2337.6
204	50	39.992	.11	2359.2
205	50	40.392	.11	2380.9
206	50	40.794	.11	2402.7
207	50	41.198	.11	2424.6
208	50	41.604	.11	2446.6
209	50	42.012	.11	2468.7
210	50	42.422	.11	2490.9
211	50	42.834	.11	2513.2
212	50	43.248	.11	2535.6
213	50	43.664	.11	2558.1
214	50	44.082	.11	2580.7
215	50	44.502	.11	2603.4
216	50	44.924	.11	2626.2
217	50	45.348	.11	2649.1
218	50	45.774	.11	2672.1
219	50	46.202	.11	2695.2
220	50	46.632	.11	2718.4
221	50	47.064	.11	2741.7
222	50	47.498	.11	2765.1
223	50	47.934	.11	2788.6
224	50	48.372	.11	2812.2
225	50	48.812	.11	2835.9
226	50	49.254	.11	2859.7
227	50	49.698	.11	2883.6
228	50	50.144	.11	2907.6
229	50	50.592	.11	2931.7
230	50	51.042	.11	2955.9
231	50	51.494	.11	2980.2
232	50	51.9		

NORMALIZED VELOCITY PROFILE 063301 REF. VEL. 30.1 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.00	.00	15.0
2	50	.00	.00	15.0
3	50	.00	.00	15.0
4	50	.00	.00	15.0
5	50	.00	.00	15.0
6	50	.00	.00	15.0
7	50	.00	.00	15.0
8	50	.00	.00	15.0
9	50	.00	.00	15.0
10	50	.00	.00	15.0
11	50	.00	.00	15.0
12	50	.00	.00	15.0
13	50	.00	.00	15.0
14	50	.00	.00	15.0
15	50	.00	.00	15.0
16	50	.00	.00	15.0
17	50	.00	.00	15.0
18	50	.00	.00	15.0
19	50	.00	.00	15.0
20	50	.00	.00	15.0
21	50	.00	.00	15.0
22	50	.00	.00	15.0
23	50	.00	.00	15.0
24	50	.00	.00	15.0
25	50	.00	.00	15.0
26	50	.00	.00	15.0
27	50	.00	.00	15.0
28	50	.00	.00	15.0
29	50	.00	.00	15.0
30	50	.00	.00	15.0
31	50	.00	.00	15.0
32	50	.00	.00	15.0
33	50	.00	.00	15.0
34	50	.00	.00	15.0
35	50	.00	.00	15.0
36	50	.00	.00	15.0
37	50	.00	.00	15.0
38	50	.00	.00	15.0
39	50	.00	.00	15.0
40	50	.00	.00	15.0
41	50	.00	.00	15.0
42	50	.00	.00	15.0
43	50	.00	.00	15.0
44	50	.00	.00	15.0
45	50	.00	.00	15.0
46	50	.00	.00	15.0
47	50	.00	.00	15.0
48	50	.00	.00	15.0
49	50	.00	.00	15.0
50	50	.00	.00	15.0

NORMALIZED VELOCITY PROFILE 063321 REF. VEL. 30.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT HT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.00	.00	34.7
2	50	.00	.00	34.1
3	50	.00	.00	34.4
4	50	.00	.00	34.1
5	50	.00	.00	34.0
6	50	.00	.00	34.0
7	50	.00	.00	34.0
8	50	.00	.00	34.0
9	50	.00	.00	34.0
10	50	.00	.00	34.0
11	50	.00	.00	34.0
12	50	.00	.00	34.0
13	50	.00	.00	34.0
14	50	.00	.00	34.0
15	50	.00	.00	34.0
16	50	.00	.00	34.0
17	50	.00	.00	34.0
18	50	.00	.00	34.0
19	50	.00	.00	34.0
20	50	.00	.00	34.0
21	50	.00	.00	34.0
22	50	.00	.00	34.0
23	50	.00	.00	34.0
24	50	.00	.00	34.0
25	50	.00	.00	34.0
26	50	.00	.00	34.0
27	50	.00	.00	34.0
28	50	.00	.00	34.0
29	50	.00	.00	34.0
30	50	.00	.00	34.0
31	50	.00	.00	34.0
32	50	.00	.00	34.0
33	50	.00	.00	34.0
34	50	.00	.00	34.0
35	50	.00	.00	34.0
36	50	.00	.00	34.0
37	50	.00	.00	34.0
38	50	.00	.00	34.0
39	50	.00	.00	34.0
40	50	.00	.00	34.0
41	50	.00	.00	34.0
42	50	.00	.00	34.0
43	50	.00	.00	34.0
44	50	.00	.00	34.0
45	50	.00	.00	34.0
46	50	.00	.00	34.0
47	50	.00	.00	34.0
48	50	.00	.00	34.0
49	50	.00	.00	34.0
50	50	.00	.00	34.0

NORMALIZED VELOCITY PROFILE 063302 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.00	.00	15.0
2	50	.00	.00	15.0
3	50	.00	.00	15.0
4	50	.00	.00	15.0
5	50	.00	.00	15.0
6	50	.00	.00	15.0
7	50	.00	.00	15.0
8	50	.00	.00	15.0
9	50	.00	.00	15.0
10	50	.00	.00	15.0
11	50	.00	.00	15.0
12	50	.00	.00	15.0
13	50	.00	.00	15.0
14	50	.00	.00	15.0
15	50	.00	.00	15.0
16	50	.00	.00	15.0
17	50	.00	.00	15.0
18	50	.00	.00	15.0
19	50	.00	.00	15.0
20	50	.00	.00	15.0
21	50	.00	.00	15.0
22	50	.00	.00	15.0
23	50	.00	.00	15.0
24	50	.00	.00	15.0
25	50	.00	.00	15.0
26	50	.00	.00	15.0
27	50	.00	.00	15.0
28	50	.00	.00	15.0
29	50	.00	.00	15.0
30	50	.00	.00	15.0
31	50	.00	.00	15.0
32	50	.00	.00	15.0
33	50	.00	.00	15.0
34	50	.00	.00	15.0
35	50	.00	.00	15.0
36	50	.00	.00	15.0
37	50	.00	.00	15.0
38	50	.00	.00	15.0
39	50	.00	.00	15.0
40	50	.00	.00	15.0
41	50	.00	.00	15.0
42	50	.00	.00	15.0
43	50	.00	.00	15.0
44	50	.00	.00	15.0
45	50	.00	.00	15.0
46	50	.00	.00	15.0
47	50	.00	.00	15.0
48	50	.00	.00	15.0
49	50	.00	.00	15.0
50	50	.00	.00	15.0

NORMALIZED VELOCITY PROFILE 063322 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT HT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.00	.00	38.5
2	50	.00	.00	39.1
3	50	.00	.00	37.6
4	50	.00	.00	34.9
5	50	.00	.00	34.7
6	50	.00	.00	34.0
7	50	.00	.00	34.0
8	50	.00	.00	34.0
9	50	.00	.00	34.0
10	50	.00	.00	34.0
11	50	.00	.00	34.0
12	50	.00	.00	34.0
13	50	.00	.00	34.0
14	50	.00	.00	34.0
15	50	.00	.00	34.0
16	50	.00	.00	34.0
17	50	.00	.00	34.0
18	50	.00	.00	34.0
19	50	.00	.00	34.0
20	50	.00	.00	34.0
21	50	.00	.00	34.0
22	50	.00	.00	34.0
23	50	.00	.00	34.0
24	50	.00	.00	34.0
25	50	.00	.00	34.0
26	50	.00	.00	34.0
27	50	.00	.00	34.0
28	50	.00	.00	34.0
29	50	.00	.00	34.0
30	50	.00	.00	34.0
31	50	.00	.00	34.0
32	50	.00	.00	34.0
33	50	.00	.00	34.0
34	50	.00	.00	34.0
35	50	.00	.00	34.0
36	50	.00	.00	34.0
37	50	.00	.00	34.0
38	50	.00	.00	34.0
39	50	.00	.00	34.0
40	50	.00	.00	34.0
41	50	.00	.00	34.0
42	50	.00	.00	34.0
43	50	.00	.00	34.0
44	50	.00	.00	34.0
45	50	.00	.00	34.0
46	50	.00	.00	34.0
47	50	.00	.00	34.0
48	50	.00	.00	34.0
49	50	.00	.00	34.0
50	50	.00	.00	34.0

NORMALIZED VELOCITY PROFILE 863303 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STUDED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	51	.54	.07	13.6
2	59	.60	.07	11.9
3	67	.63	.08	12.0
4	75	.66	.08	12.2
5	83	.71	.08	11.4
6	91	.77	.08	11.1
7	99	.82	.08	10.5
8	107	.87	.08	10.0
9	115	.91	.07	9.4
10	123	.95	.07	8.8
11	131	.99	.07	8.2

NORMALIZED VELOCITY PROFILE 863323 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STUDED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.52	.10	11.4
2	58	.56	.10	11.2
3	66	.61	.10	11.0
4	74	.64	.11	10.8
5	82	.68	.11	10.6
6	90	.72	.11	10.4
7	98	.76	.11	10.2
8	106	.80	.11	10.0
9	114	.84	.11	9.8
10	122	.88	.11	9.6
11	130	.92	.11	9.4

NORMALIZED VELOCITY PROFILE 863304 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STUDED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.50	.08	13.2
2	58	.54	.08	12.8
3	66	.58	.08	12.4
4	74	.62	.08	12.0
5	82	.66	.08	11.6
6	90	.70	.08	11.2
7	98	.74	.08	10.8
8	106	.78	.08	10.4
9	114	.82	.08	10.0
10	122	.86	.08	9.6
11	130	.90	.08	9.2

NORMALIZED VELOCITY PROFILE 863324 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STUDED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.50	.09	13.0
2	58	.54	.09	12.6
3	66	.58	.09	12.2
4	74	.62	.09	11.8
5	82	.66	.09	11.4
6	90	.70	.09	11.0
7	98	.74	.09	10.6
8	106	.78	.09	10.2
9	114	.82	.09	9.8
10	122	.86	.09	9.4
11	130	.90	.09	9.0

NORMALIZED VELOCITY PROFILE 863305 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	4	.56	.08	1
2	8	.66	.08	1
3	12	.76	.08	1
4	16	.86	.08	1
5	20	.96	.08	1
6	24	.96	.08	1
7	28	.96	.08	1
8	32	.96	.08	1
9	36	.96	.08	1
10	40	.96	.08	1
11	44	.96	.08	1
12	48	.96	.08	1
13	52	.96	.08	1
14	56	.96	.08	1
15	60	.96	.08	1
16	64	.96	.08	1
17	68	.96	.08	1
18	72	.96	.08	1
19	76	.96	.08	1
20	80	.96	.08	1
21	84	.96	.08	1
22	88	.96	.08	1
23	92	.96	.08	1
24	96	.96	.08	1
25	100	.96	.08	1

NORMALIZED VELOCITY PROFILE 863325 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = STORED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	4	.41	.10	1
2	8	.41	.11	1
3	12	.41	.11	1
4	16	.41	.11	1
5	20	.41	.11	1
6	24	.41	.11	1
7	28	.41	.11	1
8	32	.41	.11	1
9	36	.41	.11	1
10	40	.41	.11	1
11	44	.41	.11	1
12	48	.41	.11	1
13	52	.41	.11	1
14	56	.41	.11	1
15	60	.41	.11	1
16	64	.41	.11	1
17	68	.41	.11	1
18	72	.41	.11	1
19	76	.41	.11	1
20	80	.41	.11	1
21	84	.41	.11	1
22	88	.41	.11	1
23	92	.41	.11	1
24	96	.41	.11	1
25	100	.41	.11	1

NORMALIZED VELOCITY PROFILE B63401 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = ALT STOWED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	3.2	.53	.08	13.8
2	3.9	.55	.08	13.8
3	4.6	.57	.08	13.8
4	5.3	.59	.08	13.8
5	6.0	.61	.08	13.8
6	6.7	.63	.08	13.8
7	7.4	.65	.08	13.8
8	8.1	.67	.08	13.8
9	8.8	.69	.08	13.8
10	9.5	.71	.08	13.8
11	10.2	.73	.08	13.8
12	10.9	.75	.08	13.8
13	11.6	.77	.08	13.8
14	12.3	.79	.08	13.8
15	13.0	.81	.08	13.8
16	13.7	.83	.08	13.8
17	14.4	.85	.08	13.8
18	15.1	.87	.08	13.8
19	15.8	.89	.08	13.8
20	16.5	.91	.08	13.8
21	17.2	.93	.08	13.8
22	17.9	.95	.08	13.8
23	18.6	.97	.08	13.8
24	19.3	.99	.08	13.8
25	20.0	1.00	.08	13.8

NORMALIZED VELOCITY PROFILE B63402 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = ALT STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	3.0	.56	.08	14.8
2	3.6	.61	.09	14.8
3	4.2	.64	.09	14.8
4	4.8	.67	.10	14.8
5	5.4	.70	.10	14.8
6	6.0	.73	.10	14.8
7	6.6	.76	.10	14.8
8	7.2	.79	.10	14.8
9	7.8	.82	.10	14.8
10	8.4	.85	.10	14.8
11	9.0	.88	.10	14.8
12	9.6	.91	.10	14.8
13	10.2	.94	.10	14.8
14	10.8	.97	.10	14.8
15	11.4	.99	.10	14.8
16	12.0	1.00	.10	14.8

NORMALIZED VELOCITY PROFILE B63403 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = ALT STOWED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	3.2	.56	.07	12.2
2	3.9	.60	.07	12.2
3	4.6	.64	.07	12.2
4	5.3	.67	.07	12.2
5	6.0	.71	.08	12.2
6	6.7	.74	.08	12.2
7	7.4	.77	.08	12.2
8	8.1	.80	.08	12.2
9	8.8	.83	.08	12.2
10	9.5	.86	.08	12.2
11	10.2	.89	.08	12.2
12	10.9	.92	.08	12.2
13	11.6	.95	.08	12.2
14	12.3	.98	.08	12.2
15	13.0	1.00	.07	12.2

NORMALIZED VELOCITY PROFILE B63404 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = ALT STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	4.8	.51	.07	14.1
2	5.4	.57	.07	14.1
3	6.0	.60	.07	14.1
4	6.6	.63	.07	14.1
5	7.2	.67	.07	14.1
6	7.8	.71	.07	14.1
7	8.4	.74	.07	14.1
8	9.0	.78	.07	14.1
9	9.6	.80	.07	14.1
10	10.2	.81	.07	14.1
11	10.8	.82	.07	14.1
12	11.4	.83	.07	14.1
13	12.0	.84	.07	14.1
14	12.6	.85	.07	14.1
15	13.2	.86	.07	14.1
16	13.8	.87	.07	14.1
17	14.4	.88	.07	14.1
18	15.0	.89	.07	14.1
19	15.6	.90	.07	14.1
20	16.2	.91	.07	14.1
21	16.8	.92	.07	14.1
22	17.4	.93	.07	14.1
23	18.0	.94	.07	14.1
24	18.6	.95	.07	14.1
25	19.2	.96	.07	14.1
26	19.8	.97	.07	14.1
27	20.4	.98	.07	14.1
28	21.0	.99	.07	14.1
29	21.6	1.00	.07	14.1

NORMALIZED VELOCITY PROFILE 063405 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = NORT
 TIME OF DAY = ALT STG08 POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.49	.34	.08	14.9
2	.99	.57	.07	12.7
3	1.99	.63	.07	11.7
4	2.99	.69	.09	12.9
5	3.98	.71	.09	13.1
6	4.98	.73	.09	11.9
7	5.98	.74	.08	10.7
8	6.99	.76	.08	9.9
9	7.99	.81	.08	9.9
10	8.98	.82	.08	9.8
11	9.98	.87	.07	8.8

NORMALIZED VELOCITY PROFILE B63111 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	4	.00	.04	20.4
2	8	.00	.04	20.4
3	12	.00	.04	20.4
4	16	.00	.04	20.4
5	20	.00	.04	20.4
6	24	.00	.04	20.4
7	28	.00	.04	20.4
8	32	.00	.04	20.4
9	36	.00	.04	20.4
10	40	.00	.04	20.4
11	44	.00	.04	20.4
12	48	.00	.04	20.4
13	52	.00	.04	20.4
14	56	.00	.04	20.4
15	60	.00	.04	20.4
16	64	.00	.04	20.4
17	68	.00	.04	20.4
18	72	.00	.04	20.4
19	76	.00	.04	20.4
20	80	.00	.04	20.4
21	84	.00	.04	20.4
22	88	.00	.04	20.4
23	92	.00	.04	20.4
24	96	.00	.04	20.4
25	100	.00	.04	20.4

NORMALIZED VELOCITY PROFILE B63131 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.10	.04	39.1
2	10	.12	.05	40.4
3	15	.15	.06	43.5
4	20	.18	.08	48.8
5	25	.22	.10	53.8
6	30	.26	.12	58.8
7	35	.30	.14	63.8
8	40	.34	.17	68.8
9	45	.38	.20	73.8
10	50	.42	.23	78.8
11	55	.46	.26	83.8
12	60	.50	.29	88.8
13	65	.54	.32	93.8
14	70	.58	.35	98.8
15	75	.62	.38	103.8
16	80	.66	.41	108.8
17	85	.70	.44	113.8
18	90	.74	.47	118.8
19	95	.78	.50	123.8
20	100	.82	.53	128.8

NORMALIZED VELOCITY PROFILE B63161 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 10FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.00	.00	0.0
2	20	.00	.00	0.0
3	30	.00	.00	0.0
4	40	.00	.00	0.0
5	50	.00	.00	0.0
6	60	.00	.00	0.0
7	70	.00	.00	0.0
8	80	.00	.00	0.0
9	90	.00	.00	0.0
10	100	.00	.00	0.0
11	110	.00	.00	0.0
12	120	.00	.00	0.0
13	130	.00	.00	0.0
14	140	.00	.00	0.0
15	150	.00	.00	0.0
16	160	.00	.00	0.0
17	170	.00	.00	0.0
18	180	.00	.00	0.0
19	190	.00	.00	0.0
20	200	.00	.00	0.0
21	210	.00	.00	0.0
22	220	.00	.00	0.0
23	230	.00	.00	0.0
24	240	.00	.00	0.0
25	250	.00	.00	0.0

NORMALIZED VELOCITY PROFILE B63171 REF. VEL. 30.9 FPS

TEST ZONE = B WIND DIRECTION = NORTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 10FT AT 52FT + 10FT AT 102FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.00	.00	0.0
2	20	.00	.00	0.0
3	30	.00	.00	0.0
4	40	.00	.00	0.0
5	50	.00	.00	0.0
6	60	.00	.00	0.0
7	70	.00	.00	0.0
8	80	.00	.00	0.0
9	90	.00	.00	0.0
10	100	.00	.00	0.0
11	110	.00	.00	0.0
12	120	.00	.00	0.0
13	130	.00	.00	0.0
14	140	.00	.00	0.0
15	150	.00	.00	0.0
16	160	.00	.00	0.0
17	170	.00	.00	0.0
18	180	.00	.00	0.0
19	190	.00	.00	0.0
20	200	.00	.00	0.0
21	210	.00	.00	0.0
22	220	.00	.00	0.0
23	230	.00	.00	0.0
24	240	.00	.00	0.0
25	250	.00	.00	0.0

NORMALIZED VELOCITY PROFILE 063101 REF VEL. 31.0 FPS

TEST ZONE - B WIND DIRECTION - NORTH
TIME OF DAY - MOON POSITION OF PROFILE - J
FENCE CONFIGURATION - 15FT AT 52FT. 60% POROSITY

DATA POINT	HEIGHT (INCHES)	U/REF (U/REF)	U/REF (U/REF)	U/REF (U/REF)	TURB INT (PERCENT)
1	15	0.44	0.44	0.44	0.00
2	15	0.44	0.44	0.44	0.00
3	15	0.44	0.44	0.44	0.00
4	15	0.44	0.44	0.44	0.00
5	15	0.44	0.44	0.44	0.00
6	15	0.44	0.44	0.44	0.00
7	15	0.44	0.44	0.44	0.00
8	15	0.44	0.44	0.44	0.00
9	15	0.44	0.44	0.44	0.00
10	15	0.44	0.44	0.44	0.00
11	15	0.44	0.44	0.44	0.00

NORMALIZED VELOCITY PROFILE A13121 REF. VEL. 30.0 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	51	.14	.09	50
2	101	.21	.14	45
3	151	.28	.19	40
4	201	.35	.24	35
5	251	.42	.29	30
6	301	.49	.34	25
7	351	.56	.39	20
8	401	.63	.44	15
9	451	.70	.49	10
10	501	.77	.54	5
11	551	.84	.59	0

NORMALIZED VELOCITY PROFILE A13122 REF. VEL. 30.2 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.14	.09	50
2	101	.21	.14	45
3	151	.28	.19	40
4	201	.35	.24	35
5	251	.42	.29	30
6	301	.49	.34	25
7	351	.56	.39	20
8	401	.63	.44	15
9	451	.70	.49	10
10	501	.77	.54	5
11	551	.84	.59	0

NORMALIZED VELOCITY PROFILE A13123 REF. VEL. 30.2 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.14	.09	50
2	101	.21	.14	45
3	151	.28	.19	40
4	201	.35	.24	35
5	251	.42	.29	30
6	301	.49	.34	25
7	351	.56	.39	20
8	401	.63	.44	15
9	451	.70	.49	10
10	501	.77	.54	5
11	551	.84	.59	0

NORMALIZED VELOCITY PROFILE A13124 REF. VEL. 30.3 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	49	.14	.09	50
2	99	.21	.14	45
3	149	.28	.19	40
4	199	.35	.24	35
5	249	.42	.29	30
6	299	.49	.34	25
7	349	.56	.39	20
8	399	.63	.44	15
9	449	.70	.49	10
10	499	.77	.54	5
11	549	.84	.59	0

NORMALIZED VELOCITY PROFILE A13123 REF. VEL. 30.3 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	UREAH (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.05	.05	22
2	10	.07	.07	22
3	15	.08	.08	22
4	20	.09	.09	22
5	25	.10	.10	22
6	30	.11	.11	22
7	35	.12	.12	22
8	40	.13	.13	22
9	45	.14	.14	22
10	50	.15	.15	22
11	55	.16	.16	22
12	60	.17	.17	22
13	65	.18	.18	22
14	70	.19	.19	22
15	75	.20	.20	22
16	80	.21	.21	22
17	85	.22	.22	22
18	90	.23	.23	22
19	95	.24	.24	22
20	100	.25	.25	22
21	105	.26	.26	22
22	110	.27	.27	22
23	115	.28	.28	22
24	120	.29	.29	22
25	125	.30	.30	22
26	130	.31	.31	22
27	135	.32	.32	22
28	140	.33	.33	22
29	145	.34	.34	22
30	150	.35	.35	22
31	155	.36	.36	22
32	160	.37	.37	22
33	165	.38	.38	22
34	170	.39	.39	22
35	175	.40	.40	22
36	180	.41	.41	22
37	185	.42	.42	22
38	190	.43	.43	22
39	195	.44	.44	22
40	200	.45	.45	22
41	205	.46	.46	22
42	210	.47	.47	22
43	215	.48	.48	22
44	220	.49	.49	22
45	225	.50	.50	22
46	230	.51	.51	22
47	235	.52	.52	22
48	240	.53	.53	22
49	245	.54	.54	22
50	250	.55	.55	22
51	255	.56	.56	22
52	260	.57	.57	22
53	265	.58	.58	22
54	270	.59	.59	22
55	275	.60	.60	22
56	280	.61	.61	22
57	285	.62	.62	22
58	290	.63	.63	22
59	295	.64	.64	22
60	300	.65	.65	22
61	305	.66	.66	22
62	310	.67	.67	22
63	315	.68	.68	22
64	320	.69	.69	22
65	325	.70	.70	22
66	330	.71	.71	22
67	335	.72	.72	22
68	340	.73	.73	22
69	345	.74	.74	22
70	350	.75	.75	22
71	355	.76	.76	22
72	360	.77	.77	22
73	365	.78	.78	22
74	370	.79	.79	22
75	375	.80	.80	22
76	380	.81	.81	22
77	385	.82	.82	22
78	390	.83	.83	22
79	395	.84	.84	22
80	400	.85	.85	22
81	405	.86	.86	22
82	410	.87	.87	22
83	415	.88	.88	22
84	420	.89	.89	22
85	425	.90	.90	22
86	430	.91	.91	22
87	435	.92	.92	22
88	440	.93	.93	22
89	445	.94	.94	22
90	450	.95	.95	22
91	455	.96	.96	22
92	460	.97	.97	22
93	465	.98	.98	22
94	470	.99	.99	22
95	475	1.00	1.00	22

NORMALIZED VELOCITY PROFILE A23121 REF. VEL. 29.1 FPS

TEST ZONE = A WIND DIRECTION = WSW
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	UREAH (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.05	.05	22
2	10	.07	.07	22
3	15	.08	.08	22
4	20	.09	.09	22
5	25	.10	.10	22
6	30	.11	.11	22
7	35	.12	.12	22
8	40	.13	.13	22
9	45	.14	.14	22
10	50	.15	.15	22
11	55	.16	.16	22
12	60	.17	.17	22
13	65	.18	.18	22
14	70	.19	.19	22
15	75	.20	.20	22
16	80	.21	.21	22
17	85	.22	.22	22
18	90	.23	.23	22
19	95	.24	.24	22
20	100	.25	.25	22
21	105	.26	.26	22
22	110	.27	.27	22
23	115	.28	.28	22
24	120	.29	.29	22
25	125	.30	.30	22
26	130	.31	.31	22
27	135	.32	.32	22
28	140	.33	.33	22
29	145	.34	.34	22
30	150	.35	.35	22
31	155	.36	.36	22
32	160	.37	.37	22
33	165	.38	.38	22
34	170	.39	.39	22
35	175	.40	.40	22
36	180	.41	.41	22
37	185	.42	.42	22
38	190	.43	.43	22
39	195	.44	.44	22
40	200	.45	.45	22
41	205	.46	.46	22
42	210	.47	.47	22
43	215	.48	.48	22
44	220	.49	.49	22
45	225	.50	.50	22
46	230	.51	.51	22
47	235	.52	.52	22
48	240	.53	.53	22
49	245	.54	.54	22
50	250	.55	.55	22
51	255	.56	.56	22
52	260	.57	.57	22
53	265	.58	.58	22
54	270	.59	.59	22
55	275	.60	.60	22
56	280	.61	.61	22
57	285	.62	.62	22
58	290	.63	.63	22
59	295	.64	.64	22
60	300	.65	.65	22
61	305	.66	.66	22
62	310	.67	.67	22
63	315	.68	.68	22
64	320	.69	.69	22
65	325	.70	.70	22
66	330	.71	.71	22
67	335	.72	.72	22
68	340	.73	.73	22
69	345	.74	.74	22
70	350	.75	.75	22
71	355	.76	.76	22
72	360	.77	.77	22
73	365	.78	.78	22
74	370	.79	.79	22
75	375	.80	.80	22
76	380	.81	.81	22
77	385	.82	.82	22
78	390	.83	.83	22
79	395	.84	.84	22
80	400	.85	.85	22
81	405	.86	.86	22
82	410	.87	.87	22
83	415	.88	.88	22
84	420	.89	.89	22
85	425	.90	.90	22
86	430	.91	.91	22
87	435	.92	.92	22
88	440	.93	.93	22
89	445	.94	.94	22
90	450	.95	.95	22
91	455	.96	.96	22
92	460	.97	.97	22
93	465	.98	.98	22
94	470	.99	.99	22
95	475	1.00	1.00	22

NORMALIZED VELOCITY PROFILE A23122 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = WSW
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	UREAH (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.05	.05	44
2	10	.07	.07	44
3	15	.08	.08	44
4	20	.09	.09	44
5	25	.10	.10	44
6	30	.11	.11	44
7	35	.12	.12	44
8	40	.13	.13	44
9	45	.14	.14	44
10	50	.15	.15	44
11	55	.16	.16	44
12	60	.17	.17	44
13	65	.18	.18	44
14	70	.19	.19	44
15	75	.20	.20	44
16	80	.21	.21	44
17	85	.22	.22	44
18	90	.23	.23	44
19	95	.24	.24	44
20	100	.25	.25	44
21	105	.26	.26	44
22	110	.27	.27	44
23	115	.28	.28	44
24	120	.29	.29	44
25	125	.30	.30	44
26	130	.31	.31	44
27	135	.32	.32	44
28	140	.33	.33	44
29	145	.34	.34	44
30	150	.35	.35	44
31	155	.36	.36	44
32	160	.37	.37	44
33	165	.38	.38	44
34	170	.39	.39	44
35	175	.40	.40	44
36	180	.41	.41	44
37	185	.42	.42	44
38	190	.43	.43	44
39	195	.44	.44	44
40	200	.45	.45	44
41	205	.46	.46	44
42	210	.47	.47	44
43	215	.48	.48	44
44	220	.49	.49	44
45	225	.50	.50	44
46	230	.51	.51	44
47	235	.52	.52	44
48	240	.53	.53	44
49	245	.54	.54	44
50	250	.55	.55	44
51	255	.56	.56	44
52	260	.57	.57	44
53	265	.58	.58	44
54	270	.59	.59	44
55	275	.60	.60	44
56	280	.61	.61	44
57	285	.62	.62	44
58	290	.63	.63	44
59	295	.64	.64	44
60	300	.65	.65	44
61	305	.66	.66	44
62	310	.67	.67	44
63	315	.68	.68	44
64	320	.69	.69	44
65	325	.70	.70	44
66	330	.71	.71	44
67	335	.72	.72	44
68	340	.73	.73	44
69	345	.74	.74	44
70	350	.75	.75	44
71	355	.76	.76	44
72	360	.77	.77	44
73	365	.78	.78	44
74	370	.79	.79	44
75	375	.80	.80	44
76	380	.81	.81	44
77	385	.82	.82	44
78	390	.83	.83	44
79	395	.84	.84	44
80	400	.85	.85	44
81	405	.86	.86	44
82	410	.87	.87	44
83	415	.88	.88	44
84	420	.89	.89	44
85	425	.90	.90	44
86	430	.91	.91	44
87	435	.92	.92	44
88	440	.93	.93	44
89	445	.94	.94	44
90	450	.95	.95	44
91	455	.96	.96	44
92	460	.97	.97	44
93	465	.98	.98	44
94	470	.99	.99	44
95	475	1.00	1.00	44

NORMALIZED VELOCITY PROFILE A33103 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.44	.07	11
2	2	.44	.07	11
3	3	.44	.07	11
4	4	.44	.07	11
5	5	.44	.07	11
6	6	.44	.07	11
7	7	.44	.07	11
8	8	.44	.07	11
9	9	.44	.07	11
10	10	.44	.07	11
11	11	.44	.07	11

NORMALIZED VELOCITY PROFILE A33104 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.44	.07	11
2	2	.44	.07	11
3	3	.44	.07	11
4	4	.44	.07	11
5	5	.44	.07	11
6	6	.44	.07	11
7	7	.44	.07	11
8	8	.44	.07	11
9	9	.44	.07	11
10	10	.44	.07	11
11	11	.44	.07	11

NORMALIZED VELOCITY PROFILE A33105 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.41	.06	13.4
2	2	.44	.05	12.1
3	3	.42	.05	12.5
4	4	.44	.06	12.5
5	5	.44	.08	12.5
6	6	.44	.09	12.5
7	7	.44	.10	12.5
8	8	.44	.10	12.5
9	9	.44	.09	12.5
10	10	.44	.07	12.5
11	11	.44	.07	12.5

NORMALIZED VELOCITY PROFILE A33121 REF. VEL. 28.3 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.50	.04	44.3
2	2	.04	.04	46.9
3	3	.01	.06	46.7
4	4	.01	.08	44.4
5	5	.01	.10	44.4
6	6	.01	.07	44.4
7	7	.01	.07	44.4
8	8	.01	.07	44.4
9	9	.01	.07	44.4
10	10	.01	.07	44.4
11	11	.01	.07	44.4

NORMALIZED VELOCITY PROFILE A33122 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.11	.05	4.4
2	20	.11	.05	4.4
3	30	.11	.05	4.4
4	40	.11	.05	4.4
5	50	.11	.05	4.4
6	60	.11	.05	4.4
7	70	.11	.05	4.4
8	80	.11	.05	4.4
9	90	.11	.05	4.4
10	100	.11	.05	4.4
11	110	.11	.05	4.4

NORMALIZED VELOCITY PROFILE A33123 REF. VEL. 29.9 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.13	.05	3.5
2	20	.13	.05	3.5
3	30	.13	.05	3.5
4	40	.13	.05	3.5
5	50	.13	.05	3.5
6	60	.13	.05	3.5
7	70	.13	.05	3.5
8	80	.13	.05	3.5
9	90	.13	.05	3.5
10	100	.13	.05	3.5
11	110	.13	.05	3.5

NORMALIZED VELOCITY PROFILE A33124 REF. VEL. 29.0 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.17	.04	2.1
2	20	.17	.04	2.1
3	30	.17	.04	2.1
4	40	.17	.04	2.1
5	50	.17	.04	2.1
6	60	.17	.04	2.1
7	70	.17	.04	2.1
8	80	.17	.04	2.1
9	90	.17	.04	2.1
10	100	.17	.04	2.1
11	110	.17	.04	2.1

NORMALIZED VELOCITY PROFILE A33125 REF. VEL. 27.7 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	10	.21	.04	1.8
2	20	.21	.04	1.8
3	30	.21	.04	1.8
4	40	.21	.04	1.8
5	50	.21	.04	1.8
6	60	.21	.04	1.8
7	70	.21	.04	1.8
8	80	.21	.04	1.8
9	90	.21	.04	1.8
10	100	.21	.04	1.8
11	110	.21	.04	1.8

NORMALIZED VELOCITY PROFILE A33126 REF. VEL. 27.6 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 6
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	52	.07	.03	42.0
2	48	.09	.04	44.7
3	44	.11	.05	33.0
4	40	.13	.06	27.0
5	36	.14	.07	23.0
6	32	.15	.08	14.1
7	28	.16	.09	10.4
8	24	.17	.10	9.9
9	20	.18	.11	9.9
10	16	.19	.12	9.9
11	12	.20	.13	9.9
12	8	.21	.14	9.9
13	4	.22	.15	9.9

NORMALIZED VELOCITY PROFILE A33156 REF. VEL. 27.6 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = NOON POSITION OF PROFILE = 6
 FENCE CONFIGURATION = 15FT AT 52FT + SHORT CORNER FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	52	.07	.03	39.6
2	48	.09	.04	41.7
3	44	.11	.05	37.4
4	40	.13	.06	31.1
5	36	.14	.07	25.0
6	32	.15	.08	19.1
7	28	.16	.09	13.4
8	24	.17	.10	10.4
9	20	.18	.11	9.9
10	16	.19	.12	9.9
11	12	.20	.13	9.9
12	8	.21	.14	9.9
13	4	.22	.15	9.9

NORMALIZED VELOCITY PROFILE A43121 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.17	.06	33
2	2	.17	.06	33
3	3	.17	.06	33
4	4	.17	.06	33
5	5	.17	.06	33
6	6	.17	.06	33
7	7	.17	.06	33
8	8	.17	.06	33
9	9	.17	.06	33
10	10	.17	.06	33
11	11	.17	.06	33

NORMALIZED VELOCITY PROFILE A43122 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.14	.04	30
2	2	.14	.04	30
3	3	.14	.04	30
4	4	.14	.04	30
5	5	.14	.04	30
6	6	.14	.04	30
7	7	.14	.04	30
8	8	.14	.04	30
9	9	.14	.04	30
10	10	.14	.04	30
11	11	.14	.04	30

NORMALIZED VELOCITY PROFILE A43123 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.17	.04	25
2	2	.16	.04	25
3	3	.16	.04	25
4	4	.16	.04	25
5	5	.16	.04	25
6	6	.16	.04	25
7	7	.16	.04	25
8	8	.16	.04	25
9	9	.16	.04	25
10	10	.16	.04	25
11	11	.16	.04	25

NORMALIZED VELOCITY PROFILE A43124 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.13	.04	30
2	2	.13	.04	30
3	3	.13	.04	30
4	4	.13	.04	30
5	5	.13	.04	30
6	6	.13	.04	30
7	7	.13	.04	30
8	8	.13	.04	30
9	9	.13	.04	30
10	10	.13	.04	30
11	11	.13	.04	30

NORMALIZED VELOCITY PROFILE #43125 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = 88W
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	.49	.20	.05	.24
2	.61	.17	.05	.24
3	.76	.17	.05	.24
4	.91	.17	.05	.24
5	1.06	.17	.05	.24
6	1.21	.17	.05	.24
7	1.36	.17	.05	.24
8	1.51	.17	.05	.24
9	1.66	.17	.05	.24
10	1.81	.17	.05	.24
11	1.96	.17	.05	.24
12	2.11	.17	.05	.24
13	2.26	.17	.05	.24
14	2.41	.17	.05	.24
15	2.56	.17	.05	.24
16	2.71	.17	.05	.24
17	2.86	.17	.05	.24
18	3.01	.17	.05	.24
19	3.16	.17	.05	.24
20	3.31	.17	.05	.24
21	3.46	.17	.05	.24
22	3.61	.17	.05	.24
23	3.76	.17	.05	.24
24	3.91	.17	.05	.24
25	4.06	.17	.05	.24
26	4.21	.17	.05	.24
27	4.36	.17	.05	.24
28	4.51	.17	.05	.24
29	4.66	.17	.05	.24
30	4.81	.17	.05	.24
31	4.96	.17	.05	.24
32	5.11	.17	.05	.24
33	5.26	.17	.05	.24
34	5.41	.17	.05	.24
35	5.56	.17	.05	.24
36	5.71	.17	.05	.24
37	5.86	.17	.05	.24
38	6.01	.17	.05	.24
39	6.16	.17	.05	.24
40	6.31	.17	.05	.24
41	6.46	.17	.05	.24
42	6.61	.17	.05	.24
43	6.76	.17	.05	.24
44	6.91	.17	.05	.24
45	7.06	.17	.05	.24
46	7.21	.17	.05	.24
47	7.36	.17	.05	.24
48	7.51	.17	.05	.24
49	7.66	.17	.05	.24
50	7.81	.17	.05	.24
51	7.96	.17	.05	.24
52	8.11	.17	.05	.24
53	8.26	.17	.05	.24
54	8.41	.17	.05	.24
55	8.56	.17	.05	.24
56	8.71	.17	.05	.24
57	8.86	.17	.05	.24
58	9.01	.17	.05	.24
59	9.16	.17	.05	.24
60	9.31	.17	.05	.24
61	9.46	.17	.05	.24
62	9.61	.17	.05	.24
63	9.76	.17	.05	.24
64	9.91	.17	.05	.24
65	10.06	.17	.05	.24
66	10.21	.17	.05	.24
67	10.36	.17	.05	.24
68	10.51	.17	.05	.24
69	10.66	.17	.05	.24
70	10.81	.17	.05	.24
71	10.96	.17	.05	.24
72	11.11	.17	.05	.24
73	11.26	.17	.05	.24
74	11.41	.17	.05	.24
75	11.56	.17	.05	.24
76	11.71	.17	.05	.24
77	11.86	.17	.05	.24
78	12.01	.17	.05	.24
79	12.16	.17	.05	.24
80	12.31	.17	.05	.24
81	12.46	.17	.05	.24
82	12.61	.17	.05	.24
83	12.76	.17	.05	.24
84	12.91	.17	.05	.24
85	13.06	.17	.05	.24
86	13.21	.17	.05	.24
87	13.36	.17	.05	.24
88	13.51	.17	.05	.24
89	13.66	.17	.05	.24
90	13.81	.17	.05	.24
91	13.96	.17	.05	.24
92	14.11	.17	.05	.24
93	14.26	.17	.05	.24
94	14.41	.17	.05	.24
95	14.56	.17	.05	.24
96	14.71	.17	.05	.24
97	14.86	.17	.05	.24
98	15.01	.17	.05	.24
99	15.16	.17	.05	.24
100	15.31	.17	.05	.24

NORMALIZED VELOCITY PROFILE A53101 REF. VEL. 29.2 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.74	.10	13.0
2	.60	.74	.10	12.0
3	.70	.74	.10	12.0
4	.80	.74	.10	14.0
5	.90	.74	.09	14.0
6	1.00	.74	.10	14.0
7	1.10	.74	.09	14.0
8	1.20	.74	.09	14.0
9	1.30	.74	.09	14.0
10	1.40	.74	.09	14.0
11	1.50	.74	.08	14.0
12	1.60	.74	.07	14.0
13	1.70	.74	.07	14.0
14	1.80	.74	.07	14.0
15	1.90	.74	.07	14.0
16	2.00	.74	.07	14.0

NORMALIZED VELOCITY PROFILE A53102 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.70	.09	13.5
2	.60	.70	.09	13.5
3	.70	.70	.09	13.5
4	.80	.70	.09	13.5
5	.90	.70	.09	13.5
6	1.00	.70	.09	13.5
7	1.10	.70	.09	13.5
8	1.20	.70	.09	13.5
9	1.30	.70	.09	13.5
10	1.40	.70	.09	13.5
11	1.50	.70	.09	13.5
12	1.60	.70	.09	13.5
13	1.70	.70	.09	13.5
14	1.80	.70	.09	13.5
15	1.90	.70	.09	13.5
16	2.00	.70	.09	13.5

NORMALIZED VELOCITY PROFILE A53103 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.28	.08	28.5
2	.60	.28	.10	41.0
3	.70	.28	.08	38.0
4	.80	.28	.08	38.0
5	.90	.28	.10	44.0
6	1.00	.28	.14	42.0
7	1.10	.28	.14	42.0
8	1.20	.28	.13	42.0
9	1.30	.28	.11	42.0
10	1.40	.28	.09	42.0
11	1.50	.28	.08	42.0
12	1.60	.28	.08	42.0
13	1.70	.28	.08	42.0
14	1.80	.28	.08	42.0
15	1.90	.28	.08	42.0
16	2.00	.28	.08	42.0

NORMALIZED VELOCITY PROFILE A53104 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.14	.05	38.0
2	.60	.12	.05	49.0
3	.70	.09	.05	55.0
4	.80	.11	.05	49.0
5	.90	.13	.07	50.0
6	1.00	.21	.14	44.0
7	1.10	.40	.14	34.0
8	1.20	.55	.13	24.0
9	1.30	.69	.13	18.0
10	1.40	.84	.12	14.0
11	1.50	.87	.09	10.0

NORMALIZED VELOCITY PROFILE A53102 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.16	.06	44
2	60	.16	.06	44
3	70	.16	.06	44
4	80	.16	.06	44
5	90	.16	.06	44
6	100	.16	.06	44
7	110	.16	.06	44
8	120	.16	.06	44
9	130	.16	.06	44
10	140	.16	.06	44
11	150	.16	.06	44

NORMALIZED VELOCITY PROFILE A53101 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.16	.07	44
2	60	.16	.07	44
3	70	.16	.07	44
4	80	.16	.07	44
5	90	.16	.07	44
6	100	.16	.07	44
7	110	.16	.07	44
8	120	.16	.07	44
9	130	.16	.07	44
10	140	.16	.07	44
11	150	.16	.07	44

NORMALIZED VELOCITY PROFILE A53122 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.10	.04	44
2	60	.10	.04	44
3	70	.10	.04	44
4	80	.10	.04	44
5	90	.10	.04	44
6	100	.10	.04	44
7	110	.10	.04	44
8	120	.10	.04	44
9	130	.10	.04	44
10	140	.10	.04	44
11	150	.10	.04	44

NORMALIZED VELOCITY PROFILE A53123 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	50	.11	.06	44
2	60	.11	.06	44
3	70	.11	.06	44
4	80	.11	.06	44
5	90	.11	.06	44
6	100	.11	.06	44
7	110	.11	.06	44
8	120	.11	.06	44
9	130	.11	.06	44
10	140	.11	.06	44
11	150	.11	.06	44

NORMALIZED VELOCITY PROFILE A53124 REF. VEL 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	49	.13	.06	42
2	49	.13	.06	42
3	49	.13	.06	42
4	49	.13	.06	42
5	49	.13	.06	42
6	49	.13	.06	42
7	49	.13	.06	42
8	49	.13	.06	42
9	49	.13	.06	42
10	49	.13	.06	42
11	49	.13	.06	42
12	49	.13	.06	42
13	49	.13	.06	42
14	49	.13	.06	42
15	49	.13	.06	42
16	49	.13	.06	42
17	49	.13	.06	42
18	49	.13	.06	42
19	49	.13	.06	42
20	49	.13	.06	42
21	49	.13	.06	42
22	49	.13	.06	42
23	49	.13	.06	42
24	49	.13	.06	42
25	49	.13	.06	42
26	49	.13	.06	42
27	49	.13	.06	42
28	49	.13	.06	42
29	49	.13	.06	42
30	49	.13	.06	42
31	49	.13	.06	42
32	49	.13	.06	42
33	49	.13	.06	42
34	49	.13	.06	42
35	49	.13	.06	42
36	49	.13	.06	42
37	49	.13	.06	42
38	49	.13	.06	42
39	49	.13	.06	42
40	49	.13	.06	42
41	49	.13	.06	42
42	49	.13	.06	42
43	49	.13	.06	42
44	49	.13	.06	42
45	49	.13	.06	42
46	49	.13	.06	42
47	49	.13	.06	42
48	49	.13	.06	42
49	49	.13	.06	42
50	49	.13	.06	42
51	49	.13	.06	42
52	49	.13	.06	42
53	49	.13	.06	42
54	49	.13	.06	42
55	49	.13	.06	42
56	49	.13	.06	42
57	49	.13	.06	42
58	49	.13	.06	42
59	49	.13	.06	42
60	49	.13	.06	42
61	49	.13	.06	42
62	49	.13	.06	42
63	49	.13	.06	42
64	49	.13	.06	42
65	49	.13	.06	42
66	49	.13	.06	42
67	49	.13	.06	42
68	49	.13	.06	42
69	49	.13	.06	42
70	49	.13	.06	42
71	49	.13	.06	42
72	49	.13	.06	42
73	49	.13	.06	42
74	49	.13	.06	42
75	49	.13	.06	42
76	49	.13	.06	42
77	49	.13	.06	42
78	49	.13	.06	42
79	49	.13	.06	42
80	49	.13	.06	42
81	49	.13	.06	42
82	49	.13	.06	42
83	49	.13	.06	42
84	49	.13	.06	42
85	49	.13	.06	42
86	49	.13	.06	42
87	49	.13	.06	42
88	49	.13	.06	42
89	49	.13	.06	42
90	49	.13	.06	42
91	49	.13	.06	42
92	49	.13	.06	42
93	49	.13	.06	42
94	49	.13	.06	42
95	49	.13	.06	42
96	49	.13	.06	42
97	49	.13	.06	42
98	49	.13	.06	42
99	49	.13	.06	42
100	49	.13	.06	42

NORMALIZED VELOCITY PROFILE A53125 REF. VEL 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.18	.07	37
2	50	.18	.07	37
3	50	.18	.07	37
4	50	.18	.07	37
5	50	.18	.07	37
6	50	.18	.07	37
7	50	.18	.07	37
8	50	.18	.07	37
9	50	.18	.07	37
10	50	.18	.07	37
11	50	.18	.07	37
12	50	.18	.07	37
13	50	.18	.07	37
14	50	.18	.07	37
15	50	.18	.07	37
16	50	.18	.07	37
17	50	.18	.07	37
18	50	.18	.07	37
19	50	.18	.07	37
20	50	.18	.07	37
21	50	.18	.07	37
22	50	.18	.07	37
23	50	.18	.07	37
24	50	.18	.07	37
25	50	.18	.07	37
26	50	.18	.07	37
27	50	.18	.07	37
28	50	.18	.07	37
29	50	.18	.07	37
30	50	.18	.07	37
31	50	.18	.07	37
32	50	.18	.07	37
33	50	.18	.07	37
34	50	.18	.07	37
35	50	.18	.07	37
36	50	.18	.07	37
37	50	.18	.07	37
38	50	.18	.07	37
39	50	.18	.07	37
40	50	.18	.07	37
41	50	.18	.07	37
42	50	.18	.07	37
43	50	.18	.07	37
44	50	.18	.07	37
45	50	.18	.07	37
46	50	.18	.07	37
47	50	.18	.07	37
48	50	.18	.07	37
49	50	.18	.07	37
50	50	.18	.07	37
51	50	.18	.07	37
52	50	.18	.07	37
53	50	.18	.07	37
54	50	.18	.07	37
55	50	.18	.07	37
56	50	.18	.07	37
57	50	.18	.07	37
58	50	.18	.07	37
59	50	.18	.07	37
60	50	.18	.07	37
61	50	.18	.07	37
62	50	.18	.07	37
63	50	.18	.07	37
64	50	.18	.07	37
65	50	.18	.07	37
66	50	.18	.07	37
67	50	.18	.07	37
68	50	.18	.07	37
69	50	.18	.07	37
70	50	.18	.07	37
71	50	.18	.07	37
72	50	.18	.07	37
73	50	.18	.07	37
74	50	.18	.07	37
75	50	.18	.07	37
76	50	.18	.07	37
77	50	.18	.07	37
78	50	.18	.07	37
79	50	.18	.07	37
80	50	.18	.07	37
81	50	.18	.07	37
82	50	.18	.07	37
83	50	.18	.07	37
84	50	.18	.07	37
85	50	.18	.07	37
86	50	.18	.07	37
87	50	.18	.07	37
88	50	.18	.07	37
89	50	.18	.07	37
90	50	.18	.07	37
91	50	.18	.07	37
92	50	.18	.07	37
93	50	.18	.07	37
94	50	.18	.07	37
95	50	.18	.07	37
96	50	.18	.07	37
97	50	.18	.07	37
98	50	.18	.07	37
99	50	.18	.07	37
100	50	.18	.07	37

NORMALIZED VELOCITY PROFILE A63101 REF. VEL 29.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	99	.09	.11	2
2	99	.09	.11	2
3	99	.09	.11	2
4	99	.09	.11	2
5	99	.09	.11	2
6	99	.09	.11	2
7	99	.09	.11	2
8	99	.09	.11	2
9	99	.09	.11	2
10	99	.09	.11	2
11	99	.09	.11	2
12	99	.09	.11	2
13	99	.09	.11	2
14	99	.09	.11	2
15	99	.09	.11	2
16	99	.09	.11	2
17	99	.09	.11	2
18	99	.09	.11	2
19	99	.09	.11	2
20	99	.09	.11	2
21	99	.09	.11	2
22	99	.09	.11	2
23	99	.09	.11	2
24	99	.09	.11	2
25	99	.09	.11	2
26	99	.09	.11	2
27	99	.09	.11	2
28	99	.09	.11	2
29	99	.09	.11	2
30	99	.09	.11	2
31	99	.09	.11	2
32	99	.09	.11	2
33	99	.09	.11	2
34	99	.09	.11	2
35	99	.09	.11	2
36	99	.09	.11	2
37	99	.09	.11	2
38	99	.09	.11	2
39	99	.09	.11	2
40	99	.09	.11	2
41	99	.09	.11	2
42	99	.09	.11	2
43	99	.09	.11	2
44	99	.09	.11	2
45	99	.09	.11	2
46	99	.09	.11	2
47	99	.09	.11	2
48	99	.09	.11	2
49	99	.09	.11	2
50	99	.09	.11	2
51	99	.09	.11	2
52	99	.09	.11	2
53	99	.09	.11	2
54	99	.09	.11	2
55	99	.09	.11	2
56	99	.09	.11	2
57	99	.09	.11	2
58	99	.09	.11	2
59	99	.09	.11	2
60	99	.09	.11	2
61	99	.09	.11	2
62	99	.09	.11	2
63	99	.09	.11	2
64	99	.09	.11	2
65	99	.09	.11	2
66	99	.09	.11	2
67	99	.09	.11	2
68	99	.09	.11	2
69	99	.09	.11	2
70	99	.09	.11	2
71	99	.09	.11	2
72	99	.09	.11	2
73	99	.09	.11	2
74	99	.09	.11	2
75	99	.09	.11	2
76	99	.09	.11	2
77	99	.09	.11	2
78	99	.09	.11	2
79	99	.09	.11	2
80	99	.09	.11	2
81	99	.09	.11	2
82	99	.09	.11	2
83	99	.09	.11	2
84	99	.09	.11	2
85	99	.09	.11	2
86	99	.09	.11	2
87	99	.09	.11	2
88	99	.09	.11	2
89	99	.09	.11	2
90	99	.09	.11	2
91	99	.09	.11	2
92	99	.09	.11	2
93	99	.09	.11	2
94	99			

NORMALIZED VELOCITY PROFILE A63103 REF VEL 30.2 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	3.0	.39	.08	1.9
2	3.0	.38	.08	1.9
3	3.0	.38	.08	1.9
4	3.0	.38	.08	1.9
5	3.0	.38	.08	1.9
6	3.0	.38	.08	1.9
7	3.0	.38	.08	1.9
8	3.0	.38	.08	1.9
9	10.0	.79	.09	9.0
10	12.0	.81	.09	9.0
11	16.0	.87	.08	9.6

NORMALIZED VELOCITY PROFILE A63104 REF VEL 29.6 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	1.49	.28	.07	3.3
2	1.04	.33	.07	3.3
3	2.04	.33	.07	3.3
4	3.04	.33	.07	3.3
5	4.04	.33	.07	3.3
6	5.04	.33	.07	3.3
7	6.04	.33	.07	3.3
8	7.04	.33	.07	3.3
9	10.0	.63	.08	9.0
10	12.0	.64	.08	9.0
11	16.0	.77	.08	9.8

NORMALIZED VELOCITY PROFILE A63105 REF VEL 29.6 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.49	.29	.06	21.7
2	1.01	.32	.07	21.2
3	2.01	.33	.08	21.1
4	3.01	.34	.10	21.1
5	4.01	.34	.10	21.1
6	5.01	.34	.10	21.1
7	6.01	.34	.10	21.1
8	7.01	.34	.10	21.1
9	10.0	.62	.09	9.0
10	12.0	.66	.08	9.9
11	16.0	.89	.09	9.7

NORMALIZED VELOCITY PROFILE A63121 REF VEL 30.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.10	.04	38.0
2	1.02	.16	.04	38.0
3	2.02	.22	.05	41.0
4	3.02	.28	.05	46.0
5	4.02	.34	.06	46.0
6	5.02	.40	.06	46.0
7	6.02	.46	.06	46.0
8	7.02	.52	.06	46.0
9	10.0	.80	.09	11.4
10	12.0	.81	.09	10.4
11	16.0	.83	.08	9.4

NORMALIZED VELOCITY PROFILE A63122 REF VEL 30.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	4	.11	.05	24
2	6	.12	.06	24
3	8	.13	.07	24
4	10	.14	.08	24
5	12	.15	.09	24
6	14	.16	.10	24
7	16	.17	.11	24
8	18	.18	.12	24
9	20	.19	.13	24
10	22	.20	.14	24
11	24	.21	.15	24

NORMALIZED VELOCITY PROFILE A63123 REF VEL 30.4 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.12	.05	24
2	7	.13	.06	24
3	9	.14	.07	24
4	11	.15	.08	24
5	13	.16	.09	24
6	15	.17	.10	24
7	17	.18	.11	24
8	19	.19	.12	24
9	21	.20	.13	24
10	23	.21	.14	24
11	25	.22	.15	24

NORMALIZED VELOCITY PROFILE A63124 REF VEL 30.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.12	.06	26
2	7	.13	.07	26
3	9	.14	.08	26
4	11	.15	.09	26
5	13	.16	.10	26
6	15	.17	.11	26
7	17	.18	.12	26
8	19	.19	.13	26
9	21	.20	.14	26
10	23	.21	.15	26
11	25	.22	.16	26

NORMALIZED VELOCITY PROFILE A63125 REF VEL 30.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = NOON POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.12	.07	26
2	7	.13	.08	26
3	9	.14	.09	26
4	11	.15	.10	26
5	13	.16	.11	26
6	15	.17	.12	26
7	17	.18	.13	26
8	19	.19	.14	26
9	21	.20	.15	26
10	23	.21	.16	26
11	25	.22	.17	26

NORMALIZED VELOCITY PROFILE A13221 REF. VEL. 28.3 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.12	.04	2
2	55	.12	.04	2
3	60	.12	.04	2
4	65	.12	.04	2
5	70	.12	.04	2
6	75	.12	.04	2
7	80	.12	.04	2
8	85	.12	.04	2
9	90	.12	.04	2
10	95	.12	.04	2
11	100	.12	.04	2

NORMALIZED VELOCITY PROFILE A13222 REF VEL 28.6 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.07	.07	15.5
2	55	.07	.07	15.5
3	60	.07	.07	15.5
4	65	.07	.07	15.5
5	70	.07	.07	15.5
6	75	.07	.07	15.5
7	80	.07	.07	15.5
8	85	.07	.07	15.5
9	90	.07	.07	15.5
10	95	.07	.07	15.5
11	100	.07	.07	15.5

NORMALIZED VELOCITY PROFILE A13223 REF. VEL. 28.7 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.07	.07	15.5
2	55	.07	.07	15.5
3	60	.07	.07	15.5
4	65	.07	.07	15.5
5	70	.07	.07	15.5
6	75	.07	.07	15.5
7	80	.07	.07	15.5
8	85	.07	.07	15.5
9	90	.07	.07	15.5
10	95	.07	.07	15.5
11	100	.07	.07	15.5

NORMALIZED VELOCITY PROFILE A13224 REF. VEL. 28.9 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.07	.07	15.5
2	55	.07	.07	15.5
3	60	.07	.07	15.5
4	65	.07	.07	15.5
5	70	.07	.07	15.5
6	75	.07	.07	15.5
7	80	.07	.07	15.5
8	85	.07	.07	15.5
9	90	.07	.07	15.5
10	95	.07	.07	15.5
11	100	.07	.07	15.5

NORMALIZED VELOCITY PROFILE A13225 REF. VEL. 20.6 FPS

TEST ZONE = A WIND DIRECTION = WEST
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.47	.06	10
2	.50	.47	.06	10
3	.50	.47	.06	10
4	.50	.47	.06	10
5	.50	.47	.06	10
6	.50	.47	.06	10
7	.50	.47	.06	10
8	.50	.47	.06	10
9	.50	.47	.06	10
10	.50	.47	.06	10
11	.50	.47	.06	10

NORMALIZED VELOCITY PROFILE A23221 REF. VEL. 20.2 FPS

TEST ZONE = A WIND DIRECTION = WSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.10	.04	41
2	.50	.11	.04	33
3	.50	.11	.04	33
4	.50	.11	.04	33
5	.50	.11	.04	33
6	.50	.11	.04	33
7	.50	.11	.04	33
8	.50	.11	.04	33
9	.50	.11	.04	33
10	.50	.11	.04	33
11	.50	.11	.04	33

NORMALIZED VELOCITY PROFILE A23222 REF. VEL. 20.2 FPS

TEST ZONE = A WIND DIRECTION = WSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.11	.03	20
2	.50	.11	.03	20
3	.50	.11	.03	20
4	.50	.11	.03	20
5	.50	.11	.03	20
6	.50	.11	.03	20
7	.50	.11	.03	20
8	.50	.11	.03	20
9	.50	.11	.03	20
10	.50	.11	.03	20
11	.50	.11	.03	20

NORMALIZED VELOCITY PROFILE A23223 REF. VEL. 20.5 FPS

TEST ZONE = A WIND DIRECTION = WSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.04	20
2	.50	.13	.04	20
3	.50	.13	.04	20
4	.50	.13	.04	20
5	.50	.13	.04	20
6	.50	.13	.04	20
7	.50	.13	.04	20
8	.50	.13	.04	20
9	.50	.13	.04	20
10	.50	.13	.04	20
11	.50	.13	.04	20

NORMALIZED VELOCITY PROFILE A23224 REF. VEL. 20.7 FPS

TEST ZONE = A WIND DIRECTION = USW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.06	.06	0
2	100	.07	.07	0
3	150	.08	.08	0
4	200	.09	.09	0
5	250	.10	.10	0
6	300	.11	.11	0
7	350	.12	.12	0
8	400	.13	.13	0
9	450	.14	.14	0
10	500	.15	.15	0
11	550	.16	.16	0
12	600	.17	.17	0
13	650	.18	.18	0
14	700	.19	.19	0
15	750	.20	.20	0
16	800	.21	.21	0
17	850	.22	.22	0
18	900	.23	.23	0
19	950	.24	.24	0
20	1000	.25	.25	0

NORMALIZED VELOCITY PROFILE A23225 REF. VEL. 20.7 FPS

TEST ZONE = A WIND DIRECTION = USW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.06	.06	0
2	100	.07	.07	0
3	150	.08	.08	0
4	200	.09	.09	0
5	250	.10	.10	0
6	300	.11	.11	0
7	350	.12	.12	0
8	400	.13	.13	0
9	450	.14	.14	0
10	500	.15	.15	0
11	550	.16	.16	0
12	600	.17	.17	0
13	650	.18	.18	0
14	700	.19	.19	0
15	750	.20	.20	0
16	800	.21	.21	0
17	850	.22	.22	0
18	900	.23	.23	0
19	950	.24	.24	0
20	1000	.25	.25	0

NORMALIZED VELOCITY PROFILE A33201 REF. VEL. 20.6 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.06	.06	0
2	100	.07	.07	0
3	150	.08	.08	0
4	200	.09	.09	0
5	250	.10	.10	0
6	300	.11	.11	0
7	350	.12	.12	0
8	400	.13	.13	0
9	450	.14	.14	0
10	500	.15	.15	0
11	550	.16	.16	0
12	600	.17	.17	0
13	650	.18	.18	0
14	700	.19	.19	0
15	750	.20	.20	0
16	800	.21	.21	0
17	850	.22	.22	0
18	900	.23	.23	0
19	950	.24	.24	0
20	1000	.25	.25	0

NORMALIZED VELOCITY PROFILE A33202 REF. VEL. 20.6 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/URF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.06	.06	0
2	100	.07	.07	0
3	150	.08	.08	0
4	200	.09	.09	0
5	250	.10	.10	0
6	300	.11	.11	0
7	350	.12	.12	0
8	400	.13	.13	0
9	450	.14	.14	0
10	500	.15	.15	0
11	550	.16	.16	0
12	600	.17	.17	0
13	650	.18	.18	0
14	700	.19	.19	0
15	750	.20	.20	0
16	800	.21	.21	0
17	850	.22	.22	0
18	900	.23	.23	0
19	950	.24	.24	0
20	1000	.25	.25	0

NORMALIZED VELOCITY PROFILE A33203

REF. VEL. 28.6 FPS

TEST ZONE = A

WIND DIRECTION = SU

TIME OF DAY = 4 PM

POSITION OF PROFILE = 3

FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.13	.00	0.00
2	100	.17	.00	0.00
3	150	.21	.00	0.00
4	200	.25	.00	0.00
5	250	.29	.00	0.00
6	300	.33	.00	0.00
7	350	.37	.00	0.00
8	400	.41	.00	0.00
9	450	.45	.00	0.00
10	500	.49	.00	0.00
11	550	.53	.00	0.00
12	600	.57	.00	0.00
13	650	.61	.00	0.00
14	700	.65	.00	0.00
15	750	.69	.00	0.00
16	800	.73	.00	0.00
17	850	.77	.00	0.00
18	900	.81	.00	0.00
19	950	.85	.00	0.00
20	1000	.89	.00	0.00

NORMALIZED VELOCITY PROFILE A33204

REF. VEL. 28.7 FPS

TEST ZONE = A

WIND DIRECTION = SU

TIME OF DAY = 4 PM

POSITION OF PROFILE = 4

FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.00	0.00
2	100	.21	.00	0.00
3	150	.25	.00	0.00
4	200	.29	.00	0.00
5	250	.33	.00	0.00
6	300	.37	.00	0.00
7	350	.41	.00	0.00
8	400	.45	.00	0.00
9	450	.49	.00	0.00
10	500	.53	.00	0.00
11	550	.57	.00	0.00
12	600	.61	.00	0.00
13	650	.65	.00	0.00
14	700	.69	.00	0.00
15	750	.73	.00	0.00
16	800	.77	.00	0.00
17	850	.81	.00	0.00
18	900	.85	.00	0.00
19	950	.89	.00	0.00
20	1000	.93	.00	0.00

NORMALIZED VELOCITY PROFILE A33205

REF. VEL. 28.9 FPS

TEST ZONE = A

WIND DIRECTION = SU

TIME OF DAY = 4 PM

POSITION OF PROFILE = 5

FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.13	.00	0.00
2	100	.17	.00	0.00
3	150	.21	.00	0.00
4	200	.25	.00	0.00
5	250	.29	.00	0.00
6	300	.33	.00	0.00
7	350	.37	.00	0.00
8	400	.41	.00	0.00
9	450	.45	.00	0.00
10	500	.49	.00	0.00
11	550	.53	.00	0.00
12	600	.57	.00	0.00
13	650	.61	.00	0.00
14	700	.65	.00	0.00
15	750	.69	.00	0.00
16	800	.73	.00	0.00
17	850	.77	.00	0.00
18	900	.81	.00	0.00
19	950	.85	.00	0.00
20	1000	.89	.00	0.00

NORMALIZED VELOCITY PROFILE A33221

REF. VEL. 29.5 FPS

TEST ZONE = A

WIND DIRECTION = SU

TIME OF DAY = 4 PM

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.11	.04	0.00
2	100	.14	.04	0.00
3	150	.17	.05	0.00
4	200	.20	.07	0.00
5	250	.23	.07	0.00
6	300	.26	.11	0.00
7	350	.29	.15	0.00
8	400	.32	.15	0.00
9	450	.35	.15	0.00
10	500	.38	.15	0.00
11	550	.41	.15	0.00
12	600	.44	.15	0.00
13	650	.47	.15	0.00
14	700	.50	.15	0.00
15	750	.53	.15	0.00
16	800	.56	.15	0.00
17	850	.59	.15	0.00
18	900	.62	.15	0.00
19	950	.65	.15	0.00
20	1000	.68	.15	0.00

NORMALIZED VELOCITY PROFILE A33226 REF. VEL. 29.7 FPS

TEST ZONE - A WIND DIRECTION - SW
 TIME OF DAY - 4 PM POSITION OF PROFILE - 6
 FENCE CONFIGURATION - 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	50	.10	.04	41.8
2	55	.11	.05	48.7
3	61	.21	.11	50.7
4	61	.40	.16	40.7
5	64	.15	.15	22.7
6	64	.10	.10	12.5
7	79	.09	.09	9.7
8	81	.08	.08	9.7
9	82	.07	.07	9.9
10	84	.07	.07	8.7
11	86	.08	.08	9.1

NORMALIZED VELOCITY PROFILE A33256 REF. VEL. 28.5 FPS

TEST ZONE - A WIND DIRECTION - SW
 TIME OF DAY - 4 PM POSITION OF PROFILE - 6
 FENCE CONFIGURATION - 15FT AT 52FT + SHORT CORNER FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	U/REF (U/UREF)	TURB INT (PERCENT)
1	48	.10	.04	0.0
2	1.00	.10	.04	1.2
3	1.98	.10	.04	1.8
4	2.98	.10	.04	2.5
5	3.98	.10	.04	3.2
6	4.98	.10	.04	4.0
7	5.98	.10	.04	4.8
8	6.98	.10	.04	5.6
9	7.98	.10	.04	6.4
10	8.98	.10	.04	7.2
11	9.98	.10	.04	8.0

NORMALIZED VELOCITY PROFILE A43221 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.09	.07	33.7
2	1.00	.09	.08	44.4
3	1.50	.11	.11	47.2
4	2.00	.14	.14	44.0
5	2.50	.15	.15	40.1
6	3.00	.16	.16	38.0
7	3.50	.17	.17	35.7
8	4.00	.18	.18	33.0
9	4.50	.19	.19	30.0
10	5.00	.20	.20	26.7
11	5.50	.21	.21	23.0

NORMALIZED VELOCITY PROFILE A43222 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.06	40.7
2	1.00	.14	.06	39.0
3	1.50	.12	.06	40.6
4	2.00	.17	.06	40.3
5	2.50	.27	.11	43.1
6	3.00	.43	.18	34.4
7	3.50	.55	.24	28.0
8	4.00	.72	.33	20.0
9	4.50	.81	.40	15.7
10	5.00	.84	.46	11.0
11	5.50	.86	.51	7.0

NORMALIZED VELOCITY PROFILE A43223 REF. VEL. 29.2 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.12	.07	51.5
2	1.00	.16	.10	54.9
3	1.50	.20	.11	54.1
4	2.00	.17	.10	51.7
5	2.50	.24	.15	52.8
6	3.00	.49	.30	42.0
7	3.50	.59	.37	34.4
8	4.00	.76	.48	27.7
9	4.50	.82	.56	22.8
10	5.00	.84	.62	18.0
11	5.50	.88	.66	13.0

NORMALIZED VELOCITY PROFILE A43224 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = SSW
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.12	.06	48.2
2	1.00	.12	.05	42.5
3	1.50	.14	.07	49.5
4	2.00	.18	.10	57.3
5	2.50	.29	.16	54.9
6	3.00	.48	.27	35.6
7	3.50	.63	.40	24.0
8	4.00	.77	.53	15.0
9	4.50	.85	.61	10.0
10	5.00	.87	.66	7.0
11	5.50	.89	.67	4.4

NORMALIZED VELOCITY PROFILE A43223 REF. VEL. 29.3 FPS

TEST ZONE - A WIND DIRECTION - 88W
 TIME OF DAY - 4 PM POSITION OF PROFILE - 3
 FENCE CONFIGURATION - 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	URMS (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	0.01	0.00	0.07	0.00
2	0.02	0.00	0.08	0.00
3	0.03	0.00	0.09	0.00
4	0.04	0.00	0.10	0.00
5	0.05	0.00	0.11	0.00
6	0.06	0.00	0.12	0.00
7	0.07	0.00	0.13	0.00
8	0.08	0.00	0.14	0.00
9	0.09	0.00	0.15	0.00
10	1.00	0.00	0.17	0.00
11	12.00	0.00	0.18	0.00
12	16.00	0.00	0.19	0.00

NORMALIZED VELOCITY PROFILE A53201 REF. VEL. 28.8 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.67	.07	10.1
2	.59	.69	.07	10.1
3	.69	.76	.09	11.1
4	.79	.73	.08	10.1
5	.89	.67	.07	10.1
6	.99	.68	.07	10.1
7	1.09	.69	.07	10.1
8	1.19	.74	.07	10.1
9	1.29	.74	.07	10.1
10	1.39	.79	.07	10.1
11	1.49	.81	.07	10.1
12	1.59	.81	.07	10.1
13	1.69	.81	.07	10.1
14	1.79	.81	.07	10.1
15	1.89	.81	.07	10.1
16	1.99	.81	.07	10.1
17	2.09	.81	.07	10.1
18	2.19	.81	.07	10.1
19	2.29	.81	.07	10.1
20	2.39	.81	.07	10.1
21	2.49	.81	.07	10.1
22	2.59	.81	.07	10.1
23	2.69	.81	.07	10.1
24	2.79	.81	.07	10.1
25	2.89	.81	.07	10.1
26	2.99	.81	.07	10.1
27	3.09	.81	.07	10.1
28	3.19	.81	.07	10.1
29	3.29	.81	.07	10.1
30	3.39	.81	.07	10.1
31	3.49	.81	.07	10.1
32	3.59	.81	.07	10.1
33	3.69	.81	.07	10.1
34	3.79	.81	.07	10.1
35	3.89	.81	.07	10.1
36	3.99	.81	.07	10.1
37	4.09	.81	.07	10.1
38	4.19	.81	.07	10.1
39	4.29	.81	.07	10.1
40	4.39	.81	.07	10.1
41	4.49	.81	.07	10.1
42	4.59	.81	.07	10.1
43	4.69	.81	.07	10.1
44	4.79	.81	.07	10.1
45	4.89	.81	.07	10.1
46	4.99	.81	.07	10.1
47	5.09	.81	.07	10.1
48	5.19	.81	.07	10.1
49	5.29	.81	.07	10.1
50	5.39	.81	.07	10.1
51	5.49	.81	.07	10.1
52	5.59	.81	.07	10.1
53	5.69	.81	.07	10.1
54	5.79	.81	.07	10.1
55	5.89	.81	.07	10.1
56	5.99	.81	.07	10.1
57	6.09	.81	.07	10.1
58	6.19	.81	.07	10.1
59	6.29	.81	.07	10.1
60	6.39	.81	.07	10.1
61	6.49	.81	.07	10.1
62	6.59	.81	.07	10.1
63	6.69	.81	.07	10.1
64	6.79	.81	.07	10.1
65	6.89	.81	.07	10.1
66	6.99	.81	.07	10.1
67	7.09	.81	.07	10.1
68	7.19	.81	.07	10.1
69	7.29	.81	.07	10.1
70	7.39	.81	.07	10.1
71	7.49	.81	.07	10.1
72	7.59	.81	.07	10.1
73	7.69	.81	.07	10.1
74	7.79	.81	.07	10.1
75	7.89	.81	.07	10.1
76	7.99	.81	.07	10.1
77	8.09	.81	.07	10.1
78	8.19	.81	.07	10.1
79	8.29	.81	.07	10.1
80	8.39	.81	.07	10.1
81	8.49	.81	.07	10.1
82	8.59	.81	.07	10.1
83	8.69	.81	.07	10.1
84	8.79	.81	.07	10.1
85	8.89	.81	.07	10.1
86	8.99	.81	.07	10.1
87	9.09	.81	.07	10.1
88	9.19	.81	.07	10.1
89	9.29	.81	.07	10.1
90	9.39	.81	.07	10.1
91	9.49	.81	.07	10.1
92	9.59	.81	.07	10.1
93	9.69	.81	.07	10.1
94	9.79	.81	.07	10.1
95	9.89	.81	.07	10.1
96	9.99	.81	.07	10.1
97	10.09	.81	.07	10.1
98	10.19	.81	.07	10.1
99	10.29	.81	.07	10.1
100	10.39	.81	.07	10.1
101	10.49	.81	.07	10.1
102	10.59	.81	.07	10.1
103	10.69	.81	.07	10.1
104	10.79	.81	.07	10.1
105	10.89	.81	.07	10.1
106	10.99	.81	.07	10.1
107	11.09	.81	.07	10.1
108	11.19	.81	.07	10.1
109	11.29	.81	.07	10.1
110	11.39	.81	.07	10.1
111	11.49	.81	.07	10.1
112	11.59	.81	.07	10.1
113	11.69	.81	.07	10.1
114	11.79	.81	.07	10.1
115	11.89	.81	.07	10.1
116	11.99	.81	.07	10.1
117	12.09	.81	.07	10.1
118	12.19	.81	.07	10.1
119	12.29	.81	.07	10.1
120	12.39	.81	.07	10.1
121	12.49	.81	.07	10.1
122	12.59	.81	.07	10.1
123	12.69	.81	.07	10.1
124	12.79	.81	.07	10.1
125	12.89	.81	.07	10.1
126	12.99	.81	.07	10.1
127	13.09	.81	.07	10.1
128	13.19	.81	.07	10.1
129	13.29	.81	.07	10.1
130	13.39	.81	.07	10.1
131	13.49	.81	.07	10.1
132	13.59	.81	.07	10.1
133	13.69	.81	.07	10.1
134	13.79	.81	.07	10.1
135	13.89	.81	.07	10.1
136	13.99	.81	.07	10.1
137	14.09	.81	.07	10.1
138	14.19	.81	.07	10.1
139	14.29	.81	.07	10.1
140	14.39	.81	.07	10.1
141	14.49	.81	.07	10.1
142	14.59	.81	.07	10.1
143	14.69	.81	.07	10.1
144	14.79	.81	.07	10.1
145	14.89	.81	.07	10.1
146	14.99	.81	.07	10.1
147	15.09	.81	.07	10.1
148	15.19	.81	.07	10.1
149	15.29	.81	.07	10.1
150	15.39	.81	.07	10.1
151	15.49	.81	.07	10.1
152	15.59	.81	.07	10.1
153	15.69	.81	.07	10.1
154	15.79	.81	.07	10.1
155	15.89	.81	.07	10.1
156	15.99	.81	.07	10.1
157	16.09	.81	.07	10.1
158	16.19	.81	.07	10.1
159	16.29	.81	.07	10.1
160	16.39	.81	.07	10.1
161	16.49	.81	.07	10.1
162	16.59	.81	.07	10.1
163	16.69	.81	.07	10.1
164	16.79	.81	.07	10.1
165	16.89	.81	.07	10.1
166	16.99	.81	.07	10.1
167	17.09	.81	.07	10.1
168	17.19	.81	.07	10.1
169	17.29	.81	.07	10.1
170	17.39	.81	.07	10.1
171	17.49	.81	.07	10.1
172	17.59	.81	.07	10.1
173	17.69	.81	.07	10.1
174	17.79	.81	.07	10.1
175	17.89	.81	.07	10.1
176	17.99	.81	.07	10.1
177	18.09	.81	.07	10.1
178	18.19	.81	.07	10.1
179	18.29	.81	.07	10.1
180	18.39	.81	.07	10.1
181	18.49	.81	.07	10.1
182	18.59	.81	.07	10.1
183	18.69	.81	.07	10.1
184	18.79	.81	.07	10.1
185	18.89	.81	.07	10.1
186	18.99	.81	.07	10.1
187	19.09	.81	.07	10.1
188	19.19	.81	.07	10.1
189	19.29	.81	.07	10.1
190	19.39	.81	.07	10.1
191	19.49	.81	.07	10.1
192	19.59	.81	.07	10.1
193	19.69	.81	.07	10.1
194	19.79	.81	.07	10.1
195	19.89	.81	.07	10.1
196	19.99	.81	.07	10.1
197	20.09	.81	.07	10.1
198	20.19	.81	.07	10.1
199	20.29	.81	.07	10.1
200	20.39	.81	.07	10.1
201	20.49	.81	.07	10.1
202	20.59	.81	.07	10.1
203	20.69	.81	.07	10.1
204	20.79	.81	.07	10.1
205	20.89	.81	.07	10.1
206	20.99	.81	.07	10.1
207	21.09	.81	.07	10.1
208	21.19	.81	.07	10.1
209	21.29	.81	.07	10.1
210	21.39	.81	.07	10.1
211	21.49	.81	.07	10.1
212	21.59	.81	.07	10.1
213	21.69	.81	.07	10.1
214	21.79	.81	.07	10.1
215	21.89	.81	.07	10.1
216	21.99	.81	.07	10.1
217	22.09	.81	.07	10.1
218	22.19	.81	.07	10.1
219	22.29	.81	.07	10.1
220	22.39	.81	.07	10.1
221	22.49	.81	.07	10.1
222	22.59	.81	.07	10.1
223	22.69	.81	.07	10.1
224	22.79	.81	.07	10.1
225	22.89	.81	.07	10.1
226	22.99	.81	.07	10.1
227	23.09	.81	.07	10.1
228	23.19	.81	.07	10.1
229	23.29	.81	.07	10.1
230	23.39	.81	.07	10.1
231	23.49	.81	.07	10.1
232	23.59	.81	.07	10.1
233	23.69	.81	.07	10.1
234	23.79	.81	.07	10.1
235	23.89	.81	.07	10.1
236	23.99	.81	.07	10.1
237	24.09	.81	.07	10.1
238	24.19	.81	.07	10.1
239	24.29	.81	.07	10.1
240	24.39	.81	.07	10.1
241	24.49	.81	.07	10.1
242	24.59	.81	.07	10.1
243	24.69	.81	.07	10.1
244	24.79	.81	.07	10.1
245	24.89	.81	.07	10.1
246	24.99	.81	.07	10.1
247	25.09	.81	.07	10.1
248	25.19	.81	.07	10.1
249	25.29	.81	.07	10.1
250	25.39	.81	.07	10.1
251	25.49	.81	.07	10.1
252	25.59	.81	.07	10.1
253	25.69	.81	.07	10.1
254	25.79	.81	.07	10.1
255	25.89	.81	.07	10.1
256	25.99	.81	.07	10.1
257	26.09	.81	.07	10.1
258	26.19	.81	.07	10.1
259	26.29	.81	.07	10.1
260	26.39	.81	.07	10.1
261	26.49	.81	.07	10.1
262	26.59	.81	.07	10.1
263	26.69	.81	.07	10.1
264	26.79	.81	.07	10.1
265	26.89	.81	.07	10.1
266	26.99	.81	.07	10.1
267	27.09	.81	.07	10.1
268	27.19	.81	.07	10.1
269	27.29	.8		

NORMALIZED VELOCITY PROFILE A53205 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.07	.07	22.7
2	1.01	.08	.08	22.7
3	1.52	.09	.09	22.7
4	2.03	.10	.10	22.7
5	2.54	.11	.11	22.7
6	3.05	.12	.12	22.7
7	3.56	.13	.13	22.7
8	4.07	.14	.14	22.7
9	4.58	.15	.15	22.7
10	5.09	.16	.16	22.7
11	5.60	.17	.17	22.7

NORMALIZED VELOCITY PROFILE A53221 REF. VEL. 30.0 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.05	.05	22.7
2	1.01	.06	.06	22.7
3	1.52	.07	.07	22.7
4	2.03	.08	.08	22.7
5	2.54	.09	.09	22.7
6	3.05	.10	.10	22.7
7	3.56	.11	.11	22.7
8	4.07	.12	.12	22.7
9	4.58	.13	.13	22.7
10	5.09	.14	.14	22.7
11	5.60	.15	.15	22.7

NORMALIZED VELOCITY PROFILE A53222 REF. VEL. 30.2 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.06	.06	44.4
2	1.01	.06	.06	44.4
3	1.52	.06	.06	44.4
4	2.03	.06	.06	44.4
5	2.54	.06	.06	44.4
6	3.05	.06	.06	44.4
7	3.56	.06	.06	44.4
8	4.07	.06	.06	44.4
9	4.58	.06	.06	44.4
10	5.09	.06	.06	44.4
11	5.60	.06	.06	44.4

NORMALIZED VELOCITY PROFILE A53223 REF. VEL. 30.2 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.08	48.7
2	1.01	.18	.09	49.1
3	1.52	.20	.11	46.8
4	2.03	.22	.14	50.0
5	2.54	.24	.15	44.0
6	3.05	.26	.15	34.8
7	3.56	.28	.15	28.8
8	4.07	.30	.12	17.2
9	4.58	.32	.08	9.9
10	5.09	.34	.07	5.2
11	5.60	.36	.06	2.1

NORMALIZED VELOCITY PROFILE A53224 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.14	.05	31.5
2	59	.14	.05	32.5
3	68	.14	.05	43.5
4	77	.14	.05	43.5
5	86	.14	.05	43.5
6	95	.14	.05	43.5
7	104	.14	.05	43.5
8	113	.14	.05	43.5
9	122	.14	.05	43.5
10	131	.14	.05	43.5
11	140	.14	.05	43.5

NORMALIZED VELOCITY PROFILE A53225 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.19	.06	31.5
2	59	.19	.06	32.5
3	68	.19	.06	43.5
4	77	.19	.06	43.5
5	86	.19	.06	43.5
6	95	.19	.06	43.5
7	104	.19	.06	43.5
8	113	.19	.06	43.5
9	122	.19	.06	43.5
10	131	.19	.06	43.5
11	140	.19	.06	43.5

NORMALIZED VELOCITY PROFILE A63201 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.33	.10	15.7
2	59	.31	.09	14.5
3	68	.29	.08	14.5
4	77	.27	.08	14.5
5	86	.25	.07	14.5
6	95	.23	.07	14.5
7	104	.21	.06	14.5
8	113	.19	.06	14.5
9	122	.17	.05	14.5
10	131	.15	.05	14.5
11	140	.13	.04	14.5

NORMALIZED VELOCITY PROFILE A63202 REF. VEL. 29.2 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.25	.09	15.7
2	59	.23	.08	14.5
3	68	.21	.08	14.5
4	77	.19	.07	14.5
5	86	.17	.06	14.5
6	95	.15	.06	14.5
7	104	.13	.05	14.5
8	113	.11	.05	14.5
9	122	.09	.04	14.5
10	131	.07	.04	14.5
11	140	.05	.03	14.5

NORMALIZED VELOCITY PROFILE A63203 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.37	.07	16.5
2	49	.43	.07	15.5
3	48	.51	.07	14.5
4	47	.57	.06	11.4
5	46	.66	.06	10.6
6	45	.73	.09	10.7
7	44	.79	.07	9.5
8	43	.83	.07	8.7
9	42	.84	.07	8.9

NORMALIZED VELOCITY PROFILE A63204 REF. VEL. 30.1 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.37	.06	16.5
2	49	.43	.07	15.5
3	48	.51	.07	14.5
4	47	.57	.06	11.4
5	46	.66	.06	10.6
6	45	.73	.09	10.7
7	44	.79	.08	9.5
8	43	.83	.07	8.7
9	42	.84	.07	8.9

NORMALIZED VELOCITY PROFILE A63205 REF. VEL. 30.5 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.06	.10	9.5
2	49	.06	.10	9.5
3	48	.07	.10	9.5
4	47	.07	.10	9.5
5	46	.08	.10	9.5
6	45	.08	.10	9.5
7	44	.08	.10	9.5
8	43	.07	.10	9.5
9	42	.07	.10	9.5
10	41	.06	.10	9.5
11	40	.06	.10	9.5

NORMALIZED VELOCITY PROFILE A63221 REF. VEL. 31.6 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.09	.04	37.1
2	49	.11	.04	34.4
3	48	.16	.06	24.4
4	47	.31	.11	14.4
5	46	.49	.14	10.6
6	45	.69	.18	10.7
7	44	.79	.08	9.5
8	43	.80	.07	8.7
9	42	.83	.07	8.9
10	41	.83	.07	8.9
11	40	.83	.07	8.9

NORMALIZED VELOCITY PROFILE A63222 REF. VEL. 32.7 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.51	.46	.07	15.7
2	.99	.44	.07	14.5
3	1.99	.43	.07	14.4
4	2.99	.43	.07	14.4
5	3.99	.43	.07	14.4
6	4.99	.43	.07	14.4
7	5.99	.43	.07	14.4
8	6.99	.43	.07	14.4
9	7.99	.43	.07	14.4
10	8.99	.43	.07	14.4
11	9.99	.43	.07	14.4
12	10.99	.43	.07	14.4
13	11.99	.43	.07	14.4
14	12.99	.43	.07	14.4
15	13.99	.43	.07	14.4

NORMALIZED VELOCITY PROFILE A63223 REF. VEL. 32.8 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.43	.06	14.7
2	.99	.46	.07	14.5
3	1.99	.46	.07	14.4
4	2.99	.43	.07	14.4
5	3.99	.43	.07	14.4
6	4.99	.43	.07	14.4
7	5.99	.43	.07	14.4
8	6.99	.43	.07	14.4
9	7.99	.43	.07	14.4
10	8.99	.43	.07	14.4
11	9.99	.43	.06	14.4
12	10.99	.43	.06	14.4
13	11.99	.43	.06	14.4
14	12.99	.43	.06	14.4
15	13.99	.43	.06	14.4

NORMALIZED VELOCITY PROFILE A63224 REF. VEL. 30.6 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.26	.07	13.5
2	.99	.41	.08	12.4
3	1.99	.47	.08	12.4
4	2.99	.49	.08	16.3
5	3.99	.49	.08	18.1
6	4.99	.54	.08	17.1
7	5.99	.57	.10	12.9
8	6.99	.74	.09	11.0
9	7.99	.80	.09	9.2
10	8.99	.82	.07	8.2
11	9.99	.84	.07	8.1
12	10.99	.87	.07	7.1
13	11.99	.87	.07	7.1
14	12.99	.87	.07	7.1
15	13.99	.87	.07	7.1

NORMALIZED VELOCITY PROFILE A63225 REF. VEL. 30.6 FPS

TEST ZONE = A WIND DIRECTION = SE
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	.50	.47	.06	13.5
2	.99	.49	.06	12.4
3	1.99	.44	.07	16.3
4	2.99	.45	.08	18.1
5	3.99	.45	.10	17.1
6	4.99	.70	.09	12.9
7	5.99	.74	.08	11.0
8	6.99	.80	.07	9.2
9	7.99	.82	.07	8.2
10	8.99	.84	.07	8.1
11	9.99	.84	.07	8.1
12	10.99	.86	.06	7.1
13	11.99	.86	.06	7.1
14	12.99	.86	.06	7.1
15	13.99	.86	.06	7.1

NORMALIZED VELOCITY PROFILE A33301 REF. VEL. 30.3 FPS

TEST ZONE = A WIND DIRECTION = SU
 TIME OF DAY = STOWED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.61	.09	15
2	66	.61	.09	13
3	82	.61	.09	12
4	98	.61	.09	11
5	114	.61	.09	11
6	130	.61	.09	11
7	146	.61	.09	11
8	162	.61	.09	11
9	178	.61	.09	11
10	194	.61	.09	11
11	210	.61	.09	11
12	226	.61	.09	11
13	242	.61	.09	11
14	258	.61	.09	11
15	274	.61	.09	11
16	290	.61	.09	11
17	306	.61	.09	11
18	322	.61	.09	11
19	338	.61	.09	11
20	354	.61	.09	11
21	370	.61	.09	11
22	386	.61	.09	11
23	402	.61	.09	11
24	418	.61	.09	11
25	434	.61	.09	11
26	450	.61	.09	11
27	466	.61	.09	11
28	482	.61	.09	11
29	498	.61	.09	11
30	514	.61	.09	11
31	530	.61	.09	11
32	546	.61	.09	11
33	562	.61	.09	11
34	578	.61	.09	11
35	594	.61	.09	11
36	610	.61	.09	11
37	626	.61	.09	11
38	642	.61	.09	11
39	658	.61	.09	11
40	674	.61	.09	11
41	690	.61	.09	11
42	706	.61	.09	11
43	722	.61	.09	11
44	738	.61	.09	11
45	754	.61	.09	11
46	770	.61	.09	11
47	786	.61	.09	11
48	802	.61	.09	11
49	818	.61	.09	11
50	834	.61	.09	11
51	850	.61	.09	11
52	866	.61	.09	11
53	882	.61	.09	11
54	898	.61	.09	11
55	914	.61	.09	11
56	930	.61	.09	11
57	946	.61	.09	11
58	962	.61	.09	11
59	978	.61	.09	11
60	994	.61	.09	11
61	1010	.61	.09	11
62	1026	.61	.09	11
63	1042	.61	.09	11
64	1058	.61	.09	11
65	1074	.61	.09	11
66	1090	.61	.09	11
67	1106	.61	.09	11
68	1122	.61	.09	11
69	1138	.61	.09	11
70	1154	.61	.09	11
71	1170	.61	.09	11
72	1186	.61	.09	11
73	1202	.61	.09	11
74	1218	.61	.09	11
75	1234	.61	.09	11
76	1250	.61	.09	11
77	1266	.61	.09	11
78	1282	.61	.09	11
79	1298	.61	.09	11
80	1314	.61	.09	11
81	1330	.61	.09	11
82	1346	.61	.09	11
83	1362	.61	.09	11
84	1378	.61	.09	11
85	1394	.61	.09	11
86	1410	.61	.09	11
87	1426	.61	.09	11
88	1442	.61	.09	11
89	1458	.61	.09	11
90	1474	.61	.09	11
91	1490	.61	.09	11
92	1506	.61	.09	11
93	1522	.61	.09	11
94	1538	.61	.09	11
95	1554	.61	.09	11
96	1570	.61	.09	11
97	1586	.61	.09	11
98	1602	.61	.09	11
99	1618	.61	.09	11
100	1634	.61	.09	11

NORMALIZED VELOCITY PROFILE A33302 REF. VEL. 30.5 FPS

TEST ZONE = A WIND DIRECTION = SU
 TIME OF DAY = STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.50	.07	14
2	66	.50	.07	14
3	82	.50	.07	14
4	98	.50	.07	14
5	114	.50	.07	14
6	130	.50	.07	14
7	146	.50	.07	14
8	162	.50	.07	14
9	178	.50	.07	14
10	194	.50	.07	14
11	210	.50	.07	14
12	226	.50	.07	14
13	242	.50	.07	14
14	258	.50	.07	14
15	274	.50	.07	14
16	290	.50	.07	14
17	306	.50	.07	14
18	322	.50	.07	14
19	338	.50	.07	14
20	354	.50	.07	14
21	370	.50	.07	14
22	386	.50	.07	14
23	402	.50	.07	14
24	418	.50	.07	14
25	434	.50	.07	14
26	450	.50	.07	14
27	466	.50	.07	14
28	482	.50	.07	14
29	498	.50	.07	14
30	514	.50	.07	14
31	530	.50	.07	14
32	546	.50	.07	14
33	562	.50	.07	14
34	578	.50	.07	14
35	594	.50	.07	14
36	610	.50	.07	14
37	626	.50	.07	14
38	642	.50	.07	14
39	658	.50	.07	14
40	674	.50	.07	14
41	690	.50	.07	14
42	706	.50	.07	14
43	722	.50	.07	14
44	738	.50	.07	14
45	754	.50	.07	14
46	770	.50	.07	14
47	786	.50	.07	14
48	802	.50	.07	14
49	818	.50	.07	14
50	834	.50	.07	14
51	850	.50	.07	14
52	866	.50	.07	14
53	882	.50	.07	14
54	898	.50	.07	14
55	914	.50	.07	14
56	930	.50	.07	14
57	946	.50	.07	14
58	962	.50	.07	14
59	978	.50	.07	14
60	994	.50	.07	14
61	1010	.50	.07	14
62	1026	.50	.07	14
63	1042	.50	.07	14
64	1058	.50	.07	14
65	1074	.50	.07	14
66	1090	.50	.07	14
67	1106	.50	.07	14
68	1122	.50	.07	14
69	1138	.50	.07	14
70	1154	.50	.07	14
71	1170	.50	.07	14
72	1186	.50	.07	14
73	1202	.50	.07	14
74	1218	.50	.07	14
75	1234	.50	.07	14
76	1250	.50	.07	14
77	1266	.50	.07	14
78	1282	.50	.07	14
79	1298	.50	.07	14
80	1314	.50	.07	14
81	1330	.50	.07	14
82	1346	.50	.07	14
83	1362	.50	.07	14
84	1378	.50	.07	14
85	1394	.50	.07	14
86	1410	.50	.07	14
87	1426	.50	.07	14
88	1442	.50	.07	14
89	1458	.50	.07	14
90	1474	.50	.07	14
91	1490	.50	.07	14
92	1506	.50	.07	14
93	1522	.50	.07	14
94	1538	.50	.07	14
95	1554	.50	.07	14
96	1570	.50	.07	14
97	1586	.50	.07	14
98	1602	.50	.07	14
99	1618	.50	.07	14
100	1634	.50	.07	14

NORMALIZED VELOCITY PROFILE A33303 REF. VEL. 30.7 FPS

TEST ZONE = A WIND DIRECTION = SU
 TIME OF DAY = STOWED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.48	.08	13
2	66	.48	.08	13
3	82	.48	.08	13
4	98	.48	.08	13
5	114	.48	.08	13
6	130	.48	.08	13
7	146	.48	.08	13
8	162	.48	.08	13
9	178	.48	.08	13
10	194	.48	.08	13
11	210	.48	.08	13
12	226	.48	.08	13
13	242	.48	.08	13
14	258	.48	.08	13
15	274	.48	.08	13
16	290	.48	.08	13
17	306	.48	.08	13
18	322	.48	.08	13
19	338	.48	.08	13
20	354	.48	.08	13
21	370	.48	.08	13
22	386	.48	.08	13
23	402	.48	.08	13
24	418	.48	.08	13
25	434	.48	.08	13
26	450	.48	.08	13
27	466	.48	.08	13
28	482	.48	.08	13
29	498	.48	.08	13
30	514	.48	.08	13
31	530	.48	.08	13
32	546	.48	.08	13
33	562	.48	.08	13
34	578	.48	.08	13
35	594	.48	.08	13
36	610	.48	.08	13
37	626	.48	.08	13
38	642	.48	.08	13
39	658	.48	.08	13
40	674	.48	.08	13
41	690	.48	.08	13
42	706	.48	.08	13
43	722	.48	.08	13
44	738	.48	.08	13
45	754	.48	.08	13
46	770	.48	.08	13
47	786	.48	.08	13
48	802	.48	.08	13
49	818	.48	.08	13
50	834	.48	.08	13
51	850	.48	.08	13
52	866	.48	.08	13
53	882	.48	.08	13
54	898	.48	.08	13
55	914	.48	.08	13
56	930	.48	.08	13
57	946	.48	.08	13
58	962	.48	.08	13
59	978	.48	.08	13
60	994	.48	.08	13
61	1010	.48	.08	13
62	1026	.48	.08	13
63	1042	.48	.08	13
64	1058	.48	.08	13
65	1074	.48	.08	13
66	1090	.48	.08	13
67	1106	.48	.08	13
68	1122	.48	.08	13
69	1138	.48	.08	13
70	1154	.48	.08	13
71	1170	.48	.08	13
72	1186	.48	.08	13
73	1202	.48	.08	13
74	1218	.48	.08	13
75	1234	.48	.08	13
76	1250	.48	.08	13
77	1266	.48	.08	13
78	1282	.48	.08	13
79	1298	.48	.08	13
80	1314	.48	.08	13
81	1330	.48	.08	13
82	1346	.48	.08	13
83				

NORMALIZED VELOCITY PROFILE A33305 REF. VEL. 30.7 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.04	.06	12.2
2	.01	.04	.06	12.2
3	.01	.04	.06	12.2
4	.01	.04	.06	12.2
5	.01	.04	.06	12.2
6	.01	.04	.06	12.2
7	.01	.04	.06	12.2
8	.01	.04	.06	12.2
9	.01	.04	.06	12.2
10	.01	.04	.06	12.2
11	.01	.04	.06	12.2

NORMALIZED VELOCITY PROFILE A33321 REF. VEL. 31.3 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.07	.03	41.7
2	.01	.07	.03	43.3
3	.01	.07	.03	41.6
4	.01	.07	.03	41.1
5	.01	.07	.03	41.4
6	.01	.07	.03	37.3
7	.01	.07	.03	13.1
8	.01	.07	.03	13.2
9	.01	.07	.03	7.7
10	.01	.07	.03	7.7
11	.01	.07	.03	7.5

NORMALIZED VELOCITY PROFILE A33322 REF. VEL. 31.2 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.11	.06	56.2
2	.01	.11	.06	47.6
3	.01	.11	.06	47.3
4	.01	.11	.06	40.3
5	.01	.11	.06	40.3
6	.01	.11	.06	22.6
7	.01	.11	.06	21.3
8	.01	.11	.06	11.6
9	.01	.11	.06	8.6
10	.01	.11	.06	7.4
11	.01	.11	.06	7.4

NORMALIZED VELOCITY PROFILE A33323 REF. VEL. 30.9 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.06	46.8
2	.01	.13	.06	42.8
3	.01	.13	.06	44.0
4	.01	.13	.06	38.4
5	.01	.13	.06	38.8
6	.01	.13	.06	24.3
7	.01	.13	.06	19.9
8	.01	.13	.06	11.6
9	.01	.13	.06	9.4
10	.01	.13	.06	8.4
11	.01	.13	.06	7.5

NORMALIZED VELOCITY PROFILE A33324 REF. VEL. 30.9 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	50	.05	.05	.7
2	40	.05	.05	.7
3	30	.05	.05	.7
4	20	.05	.05	.7
5	10	.05	.05	.7
6	5	.05	.05	.7
7	2	.05	.05	.7
8	1	.05	.05	.7
9	.5	.05	.05	.7
10	.2	.05	.05	.7
11	.1	.05	.05	.7

NORMALIZED VELOCITY PROFILE A33325 REF. VEL. 30.7 FPS

TEST ZONE = A WIND DIRECTION = SW
 TIME OF DAY = STORED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	50	.06	.06	.2
2	40	.06	.06	.2
3	30	.06	.06	.2
4	20	.06	.06	.2
5	10	.06	.06	.2
6	5	.06	.06	.2
7	2	.06	.06	.2
8	1	.06	.06	.2
9	.5	.06	.06	.2
10	.2	.06	.06	.2
11	.1	.06	.06	.2

NORMALIZED VELOCITY PROFILE A53301 REF. VEL. 28.9 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	50	.08	.08	.1
2	40	.08	.08	.1
3	30	.08	.08	.1
4	20	.08	.08	.1
5	10	.08	.08	.1
6	5	.08	.08	.1
7	2	.08	.08	.1
8	1	.08	.08	.1
9	.5	.08	.08	.1
10	.2	.08	.08	.1
11	.1	.08	.08	.1

NORMALIZED VELOCITY PROFILE A53302 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UR	U/UREF	TURB INT (PERCENT)
1	50	.08	.08	.1
2	40	.08	.08	.1
3	30	.08	.08	.1
4	20	.08	.08	.1
5	10	.08	.08	.1
6	5	.08	.08	.1
7	2	.08	.08	.1
8	1	.08	.08	.1
9	.5	.08	.08	.1
10	.2	.08	.08	.1
11	.1	.08	.08	.1

NORMALIZED VELOCITY PROFILE A53303 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.44	.08	12.75
2	60	.44	.08	11.75
3	70	.44	.08	11.44
4	80	.44	.08	11.11
5	90	.44	.08	10.78
6	100	.44	.08	10.44
7	110	.44	.08	10.11
8	120	.44	.08	9.78
9	130	.44	.08	9.44
10	140	.44	.08	9.11
11	150	.44	.08	8.78

NORMALIZED VELOCITY PROFILE A53304 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.46	.07	16.0
2	60	.46	.09	15.6
3	70	.46	.08	15.7
4	80	.46	.09	15.3
5	90	.46	.10	15.0
6	100	.46	.09	14.8
7	110	.46	.08	14.6
8	120	.46	.07	14.4
9	130	.46	.07	14.2
10	140	.46	.07	14.0
11	150	.46	.07	13.8

NORMALIZED VELOCITY PROFILE A53305 REF. VEL. 29.4 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.45	.08	11.7
2	60	.45	.08	11.1
3	70	.45	.08	10.6
4	80	.45	.08	10.1
5	90	.45	.08	9.6
6	100	.45	.08	9.1
7	110	.45	.08	8.6
8	120	.45	.08	8.1
9	130	.45	.08	7.6
10	140	.45	.08	7.1
11	150	.45	.08	6.6

NORMALIZED VELOCITY PROFILE A53321 REF. VEL. 30.3 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STORED POSITION OF PROFILE = 1
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U _{MEAN} (U/UREF)	U _{RMS} (U/UREF)	TURB INT (PERCENT)
1	50	.07	.03	40.7
2	60	.08	.03	44.9
3	70	.11	.05	47.1
4	80	.11	.05	46.8
5	90	.13	.05	38.8
6	100	.13	.05	22.2
7	110	.09	.04	11.0
8	120	.07	.03	7.8
9	130	.07	.03	7.4
10	140	.06	.03	7.4
11	150	.06	.03	7.4

NORMALIZED VELOCITY PROFILE A53322 REF. VEL. 30.5 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STOWED POSITION OF PROFILE = 2
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.16	.08	23.6
2	48	.16	.08	23.6
3	46	.19	.09	23.3
4	44	.14	.07	23.3
5	42	.13	.07	23.3
6	40	.11	.06	22.7
7	38	.11	.06	22.7
8	36	.10	.06	21.9
9	34	.09	.05	17.1
10	32	.08	.05	17.1
11	30	.08	.06	7.1

NORMALIZED VELOCITY PROFILE A53323 REF. VEL. 30.1 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STOWED POSITION OF PROFILE = 3
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.12	.10	46.4
2	48	.12	.10	46.4
3	46	.12	.10	46.4
4	44	.12	.10	46.4
5	42	.12	.10	46.4
6	40	.12	.10	46.4
7	38	.12	.10	46.4
8	36	.12	.10	46.4
9	34	.12	.10	46.4
10	32	.12	.10	46.4
11	30	.12	.10	46.4

NORMALIZED VELOCITY PROFILE A53324 REF. VEL. 29.9 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STOWED POSITION OF PROFILE = 4
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.23	.07	23.6
2	48	.23	.07	23.6
3	46	.23	.07	23.6
4	44	.23	.07	23.6
5	42	.23	.07	23.6
6	40	.23	.07	23.6
7	38	.23	.07	23.6
8	36	.23	.07	23.6
9	34	.23	.07	23.6
10	32	.23	.07	23.6
11	30	.23	.07	23.6

NORMALIZED VELOCITY PROFILE A53325 REF. VEL. 30.0 FPS

TEST ZONE = A WIND DIRECTION = SOUTH
 TIME OF DAY = STOWED POSITION OF PROFILE = 5
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	50	.37	.09	22.9
2	48	.40	.09	22.9
3	46	.40	.09	22.9
4	44	.40	.09	22.9
5	42	.40	.09	22.9
6	40	.40	.09	22.9
7	38	.40	.09	22.9
8	36	.40	.09	22.9
9	34	.40	.09	22.9
10	32	.40	.09	22.9
11	30	.40	.09	22.9

APPENDIX B

Velocity Profile Plots

Velocity Profile and Moment Data-File Name CodeFile Name = Z WD V TD FC PZ = Zone = A or BWD = Wind Direction;

<u>Zone A</u>		<u>WD</u>		<u>Zone B</u>
West	=	1	=	West
WSW	=	2	=	WNW
SW	=	3	=	NW
SSW	=	4	=	NNE
South	=	5	=	NE
SE	=	6	=	North

V = Nominal Free Stream Velocity

1 = 10 fps

2 = 20 fps

3 = 30 fps

TD = Time of Day (Heliostat Configuration)

1 = Noon

2 = 4:00 P.M.

3 = Stowed (alternating 87° and 93° pitch)

4 = Stowed' (all at 90° pitch)

All times-of-day are for local solar conditions on March 21.

FC = Fence Configuration (H and D; Figure 10)

0 = No Fence

1-H = 20 ft, D = 52 ft, 32% porosity

2-H = 15 ft, D = 52 ft, 32% porosity

3-H = 15 ft, D = 82 ft, 32% porosity

5-H = 15 ft, D = 52 ft, + short corner fence,* 32% porosity

6-H = 10 ft, D = 52 ft, 32% porosity

7-H = 10 ft, D = 52 ft, plus H = 10, D = 102 ft, 32% porosity

8-H = 15 ft, D = 52 ft, 57% porosity

P = Position of Velocity Profiles

1 - 5 or 6 (see Figures 10a through 10l)

H = Instrumented Heliostat Moment Data File instead of a velocity profile

*short corner fence, H = 15 ft, 32% porosity, 120 ft long fence, placed 10 ft upstream of the regular fence at the upstream corner of the heliostat field (prototype dimensions).

VELOCITY PROFILE PLOTS

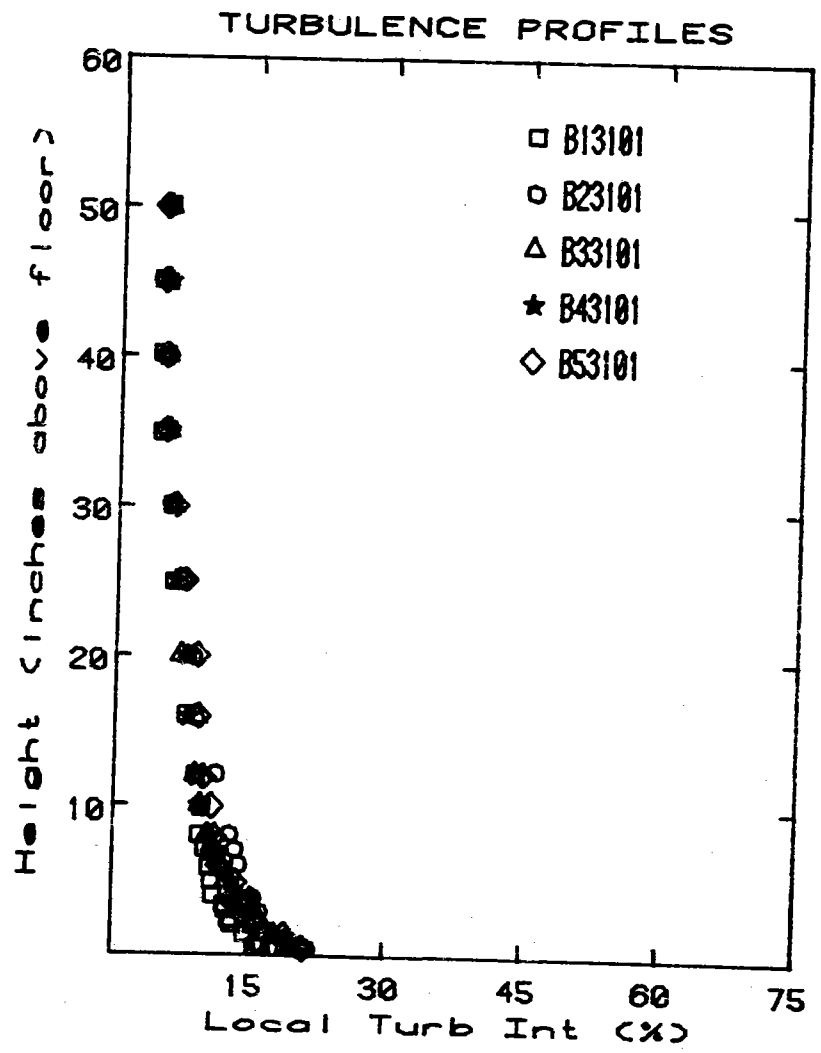
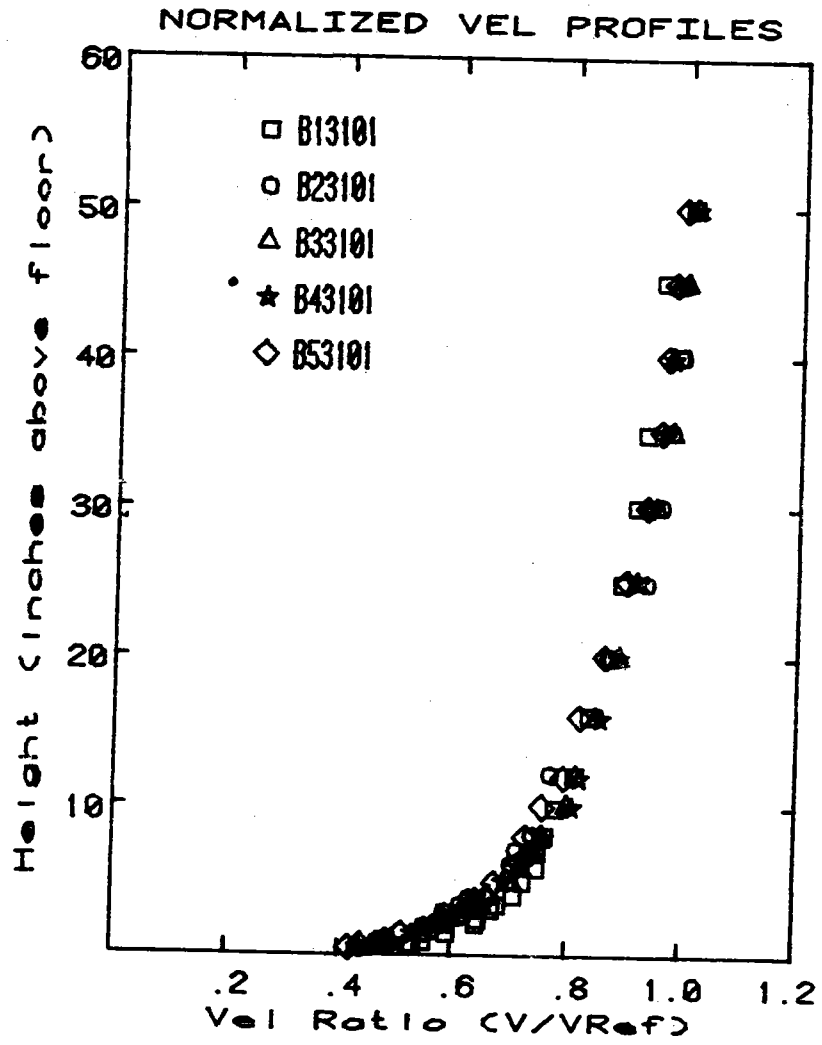
Graph Guide

Graph Number	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5
1	B13101	B23101	B33101	B43101	B53101
2	APRCH2	B13301	B33301	B53301	
3	B12101	B12102	B12103	B12104	B12105
4	APRCH2	B13101	B13111	B13121	B13131
5	APRCH2	B13102	B13112	B13122	B13132
6	APRCH2	B13103	B13113	B13123	B13133
7	APRCH2	B13104	B13114	B13124	B13134
8	APRCH2	B13105	B13115	B13125	B13135
9	APRCH2	B23101	B23111	B23121	B23131
10	APRCH2	B23102	B23112	B23122	B23132
11	APRCH2	B23103	B23113	B23123	B23133
12	APRCH2	B23104	B23114	B23124	B23134
13	APRCH2	B23105	B23115	B23125	B23135
14	B31101	B31102	B31103	B31104	B31105
15	B32101	B32102	B32103	B32104	B32105
16	APRCH2	B33101	B33111	B33121	B33131
17	APRCH2	B33102	B33112	B33122	B33132
18	APRCH2	B33103	B33113	B33123	B33133
19	APRCH2	B33104	B33114	B33124	B33134
20	APRCH2	B33105	B33115	B33125	B33135
21	APRCH2	B43101	B43111	B43121	B43131
22	APRCH2	B43102	B43112	B43122	B43132
23	APRCH2	B43103	B43113	B43123	B43133
24	APRCH2	B43104	B43114	B43124	B43134
25	APRCH2	B43105	B43115	B43125	B43135
26	B52101	B52102	B52103	B52104	B52105
27	APRCH2	B53101	B53111	B53121	B53131
28	APRCH2	B53102	B53112	B53122	B53132
29	APRCH2	B53103	B53113	B53123	B53133
30	APRCH2	B53104	B53114	B53124	B53134
31	APRCH2	B53105	B53115	B53125	B53135

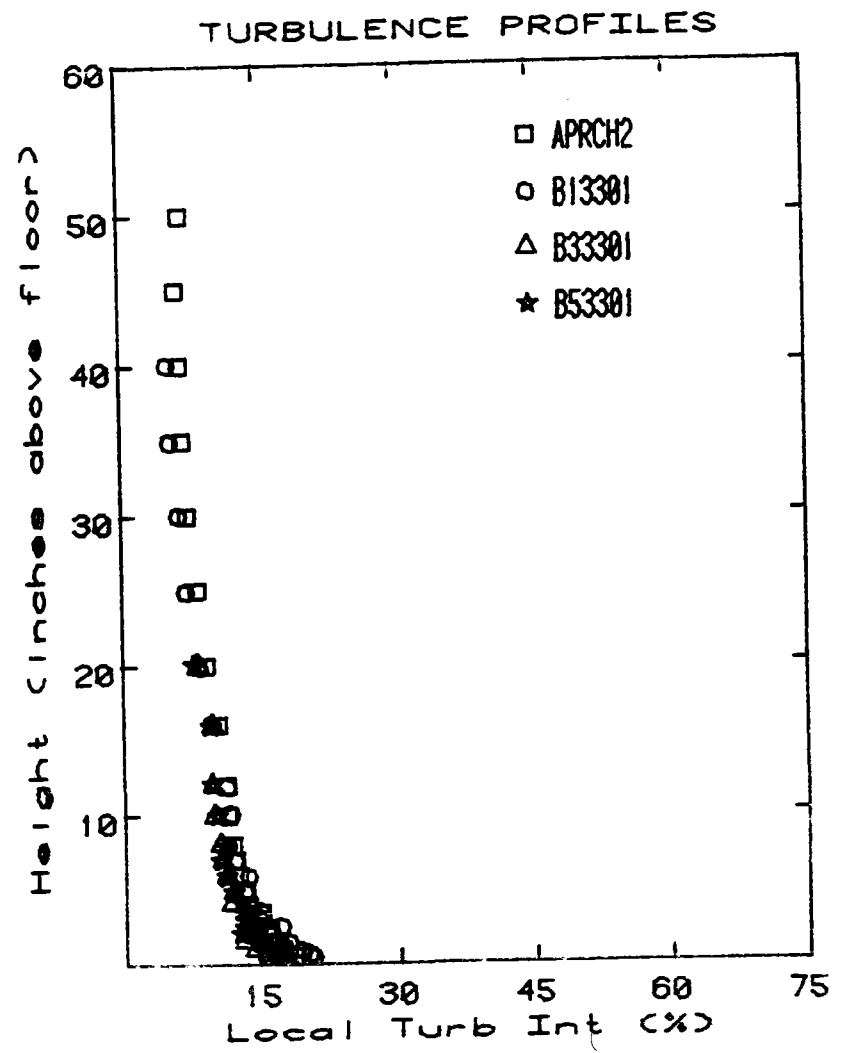
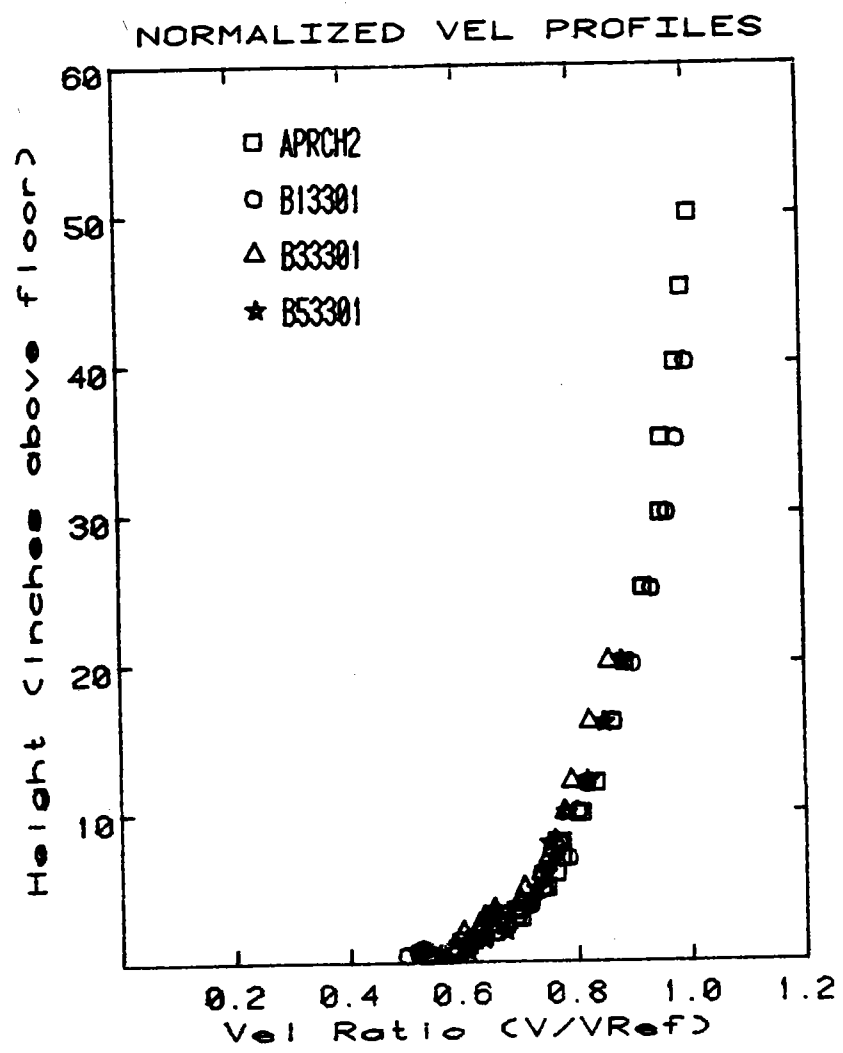
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33	B23221	B23222	B23223	B23224	B23225
34	B33221	B33222	B33223	B33224	B33225
35	B43221	B43222	B43223	B43224	B43225
36	B53221	B53222	B53223	B53224	B53225
37	B13301	B13302	B13303	B13304	B13305
38	B13321	B13322	B13323	B13324	B13325
39	B33301	B33302	B33303	B33304	B33305
40	B33321	B33322	B33323	B33324	B33325
41	B53301	B53302	B53303	B53304	B53305
42	B53321	B53322	B53323	B53324	B53325
43	APRCH2	B31101	B32101	B33101	
44	APRCH2	B13121	B13221	B13321	
45	APRCH2	B33121	B33221	B33321	
46	APRCH2	B53121	B53221	B53321	
47	APRCH2	B23123	B23153		
48	APRCH2	B33123	B33153		
49	APRCH2	B33101	B33301		
50	APRCH2	B63101	B63121	B63201	B63221
51	APRCH2	B63102	B63122	B63202	B63222
52	APRCH2	B63103	B63123	B63203	B63223
53	APRCH2	B63104	B63124	B63204	B63224
54	APRCH2	B63105	B63125	B63205	B63225
55	APRCH2	B63301	B63321	B63401	
56	APRCH2	B63302	B63322	B63402	
57	APRCH2	B63303	B63323	B63403	
58	APRCH2	B63304	B63324	B63404	
59	APRCH2	B63305	B63325	B63405	
60	B63111	B63131	B63161	B63171	B63181
61	APRCH2	B63121	B63181		
62	APRCH2	A33101	A53101	A63101	
63	APRCH2	A33201	A53201	A63201	
64	APRCH2	A33301	A53301		
65	A13121	A13122	A13123	A13124	A13125

Graph Number	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5
66	A23121	A23122	A23123	A23124	A23125
67	A33101	A33102	A33103	A33104	A33105
68	A33121	A33122	A33123	A33124	A33125
69	APRCH2	A33126	A33156		
70	A43121	A43122	A43123	A43124	A43125
71	A53101	A53102	A53103	A53104	A53105
72	A53121	A53122	A53123	A53124	A53125
73	A63101	A63102	A63103	A63104	A63105
74	A63121	A63122	A63123	A63124	A63125
75	A13221	A13222	A13223	A13224	A13225
76	A23221	A23222	A23223	A23224	A23225
77	A33201	A33202	A33203	A33204	A33205
78	A33221	A33222	A33223	A33224	A33225
79	APRCH2	A33226	A33256		
80	A43221	A43222	A43223	A43224	A43225
81	A53201	A53202	A53203	A53204	A53205
82	A53221	A53222	A53223	A53224	A53225
83	A63201	A63202	A63203	A63204	A63205
84	A63221	A63222	A63223	A63224	A63225
85	A33301	A33302	A33303	A33304	A33305
86	A33321	A33322	A33323	A33324	A33325
87	A53301	A53302	A53303	A53304	A53305
88	A53321	A53322	A53323	A53324	A53325
89	APRCH2	A33101	A33121	A33201	A33221
90	APRCH2	A53101	A53121	A53201	A53221
91	APRCH2	A63101	A63121	A63201	A63221
92	APRCH2	A33301	A33321	A33302	A33322
93	APRCH2	A53301	A53321	A53302	A53322
94	APRCH2	B13123	A13123		
95	APRCH2	B13124	A13124		
96	APRCH2	B13125	A13125		
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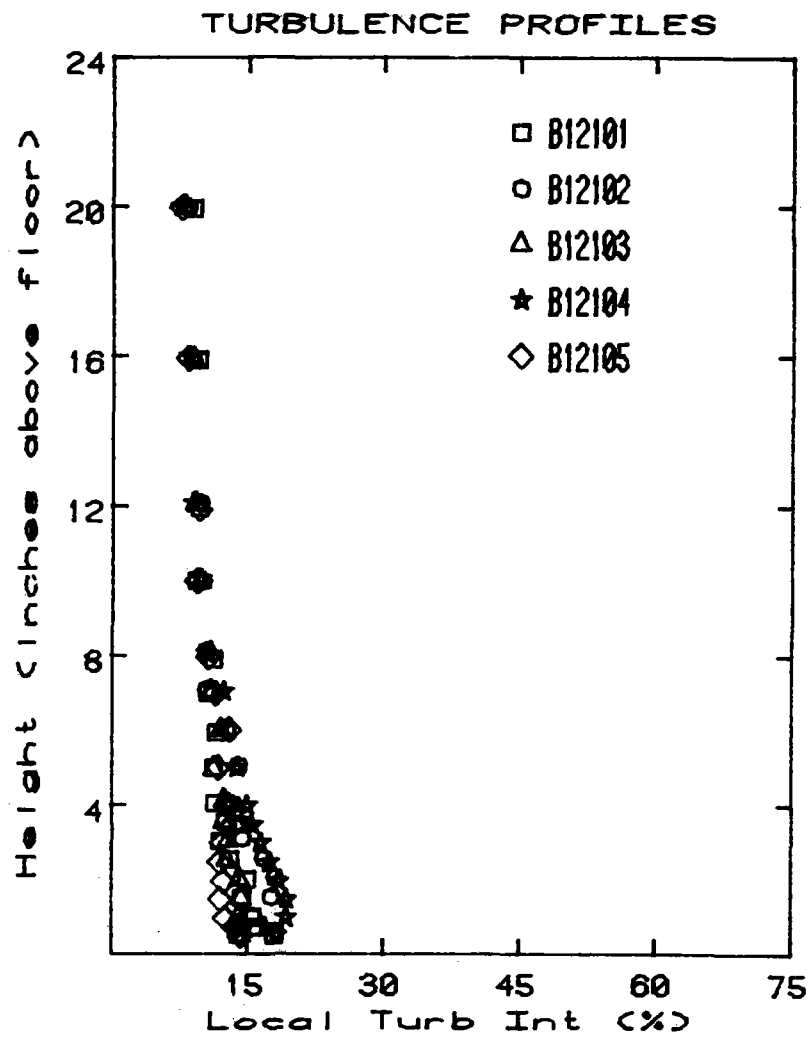
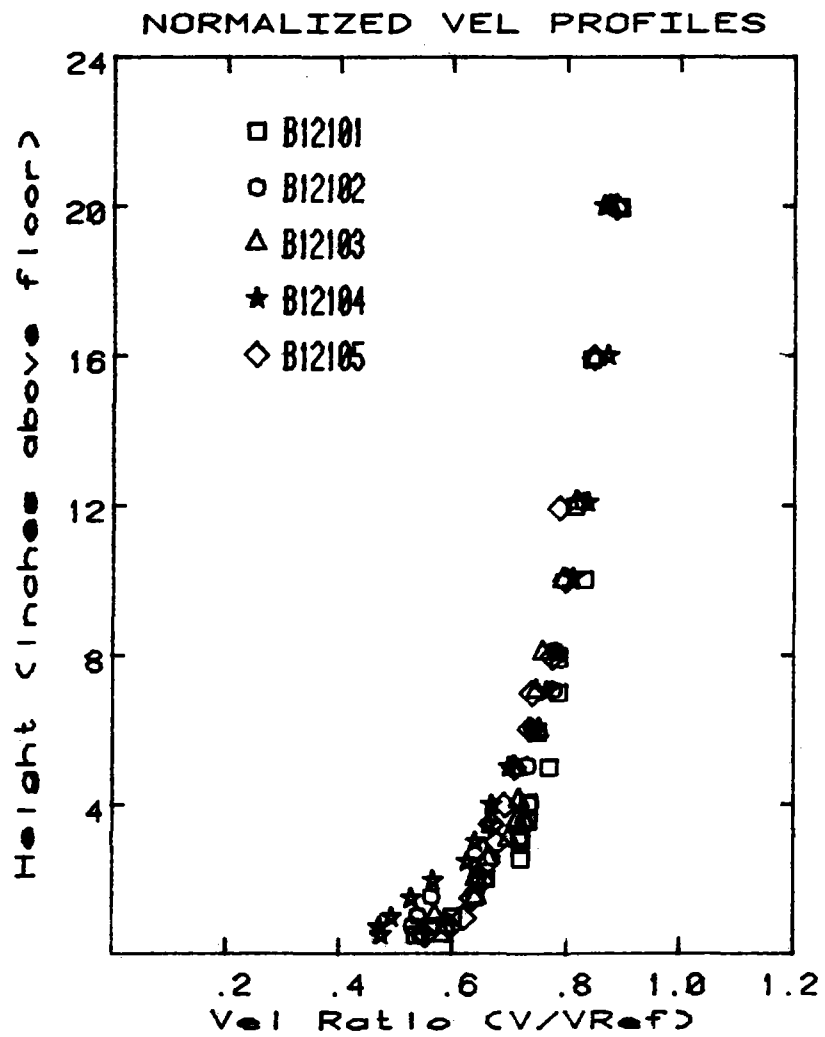
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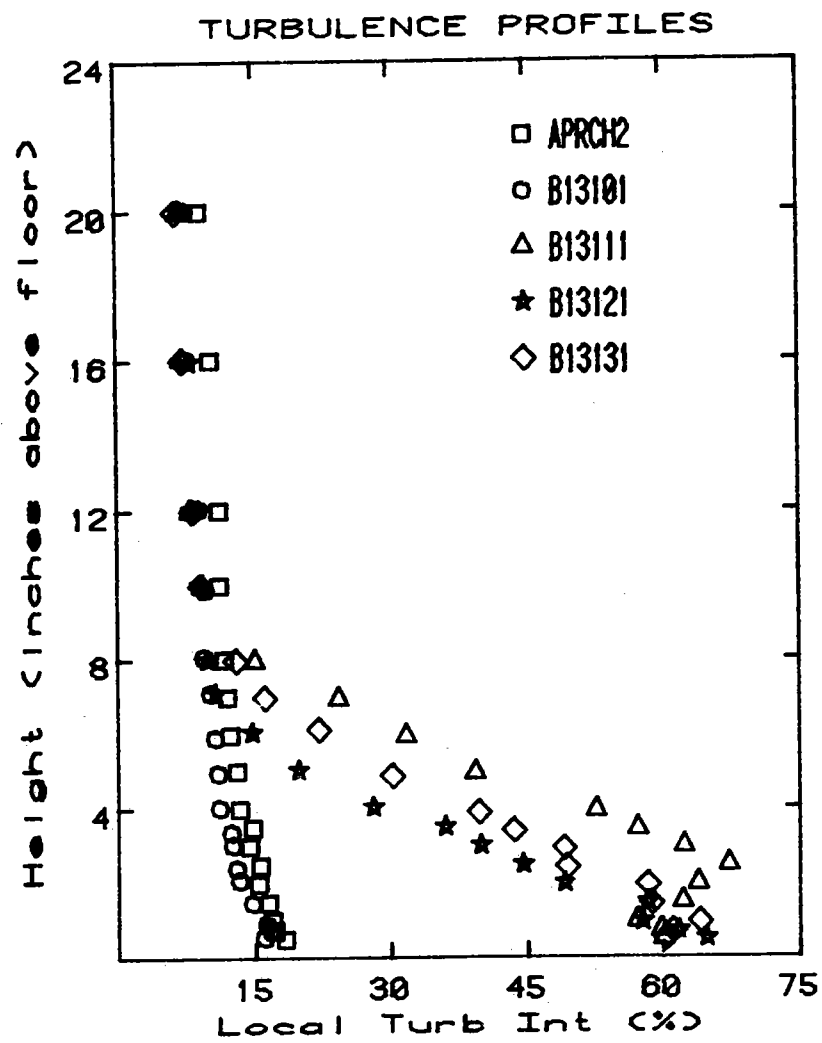
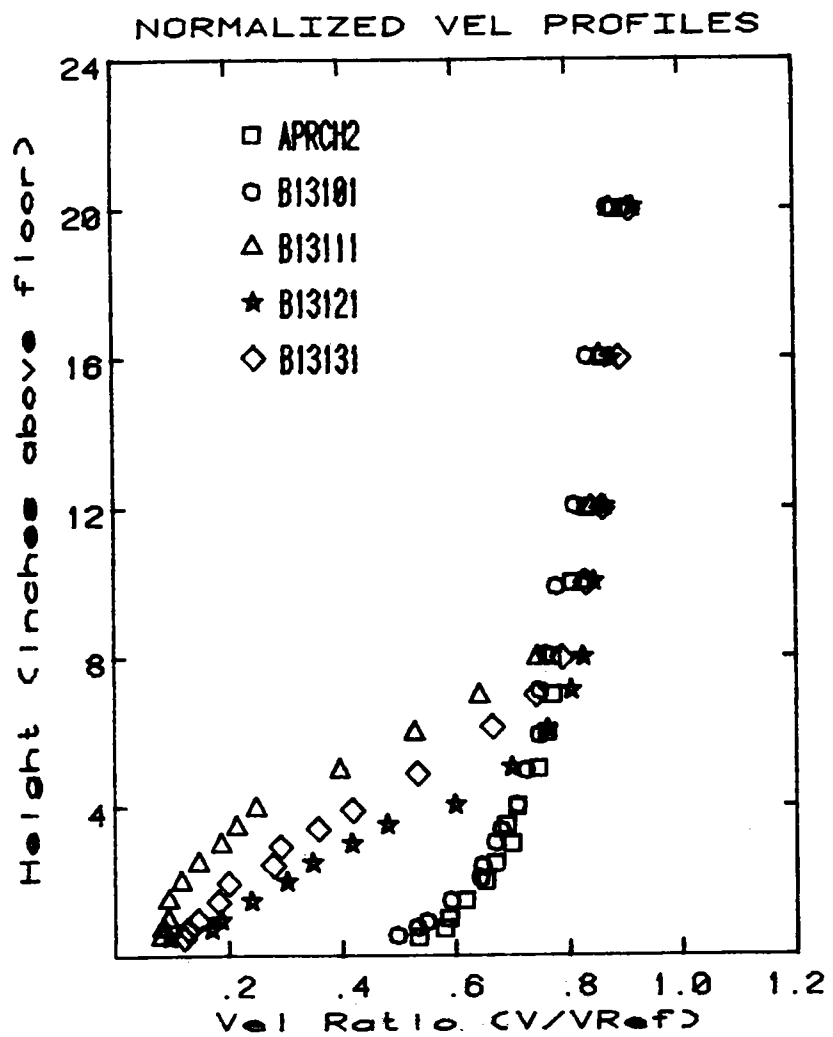
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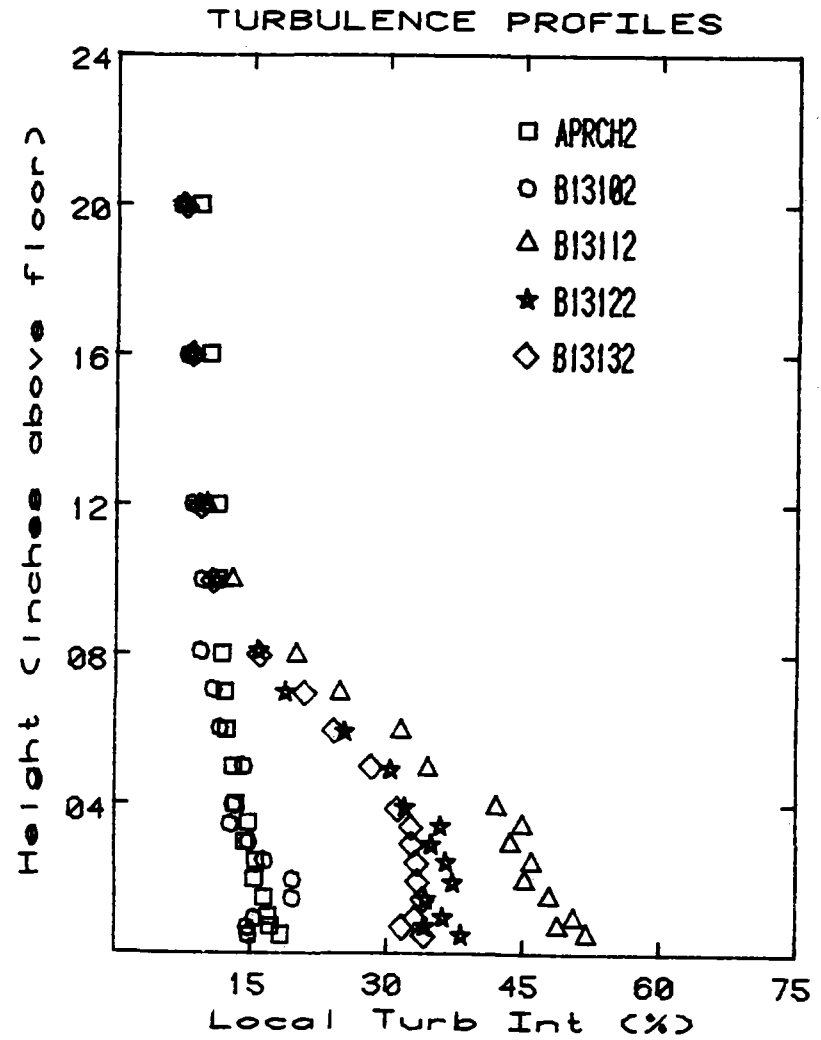
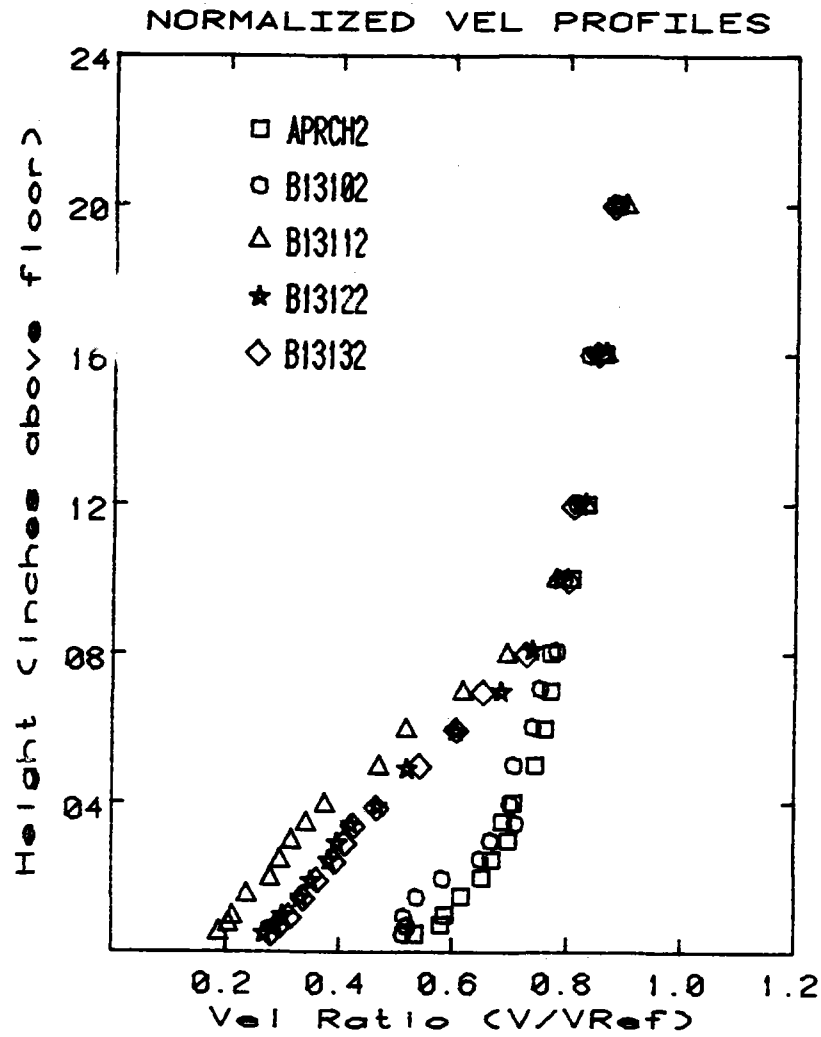
Graph # 3



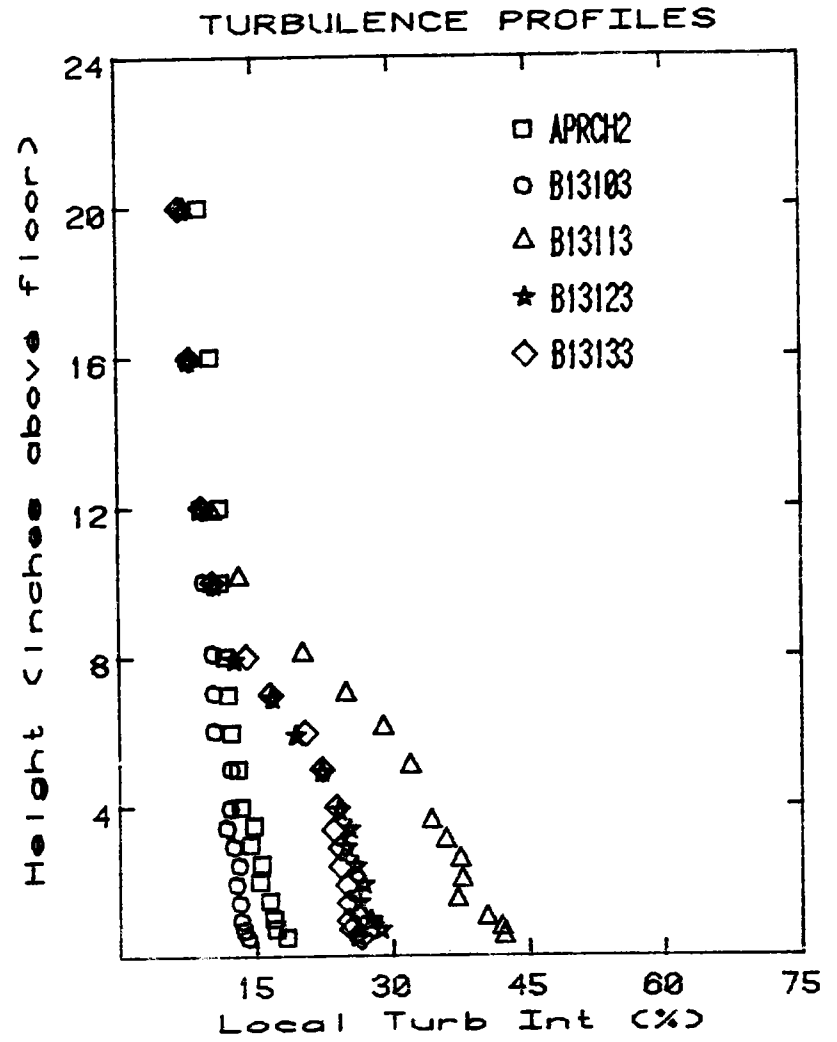
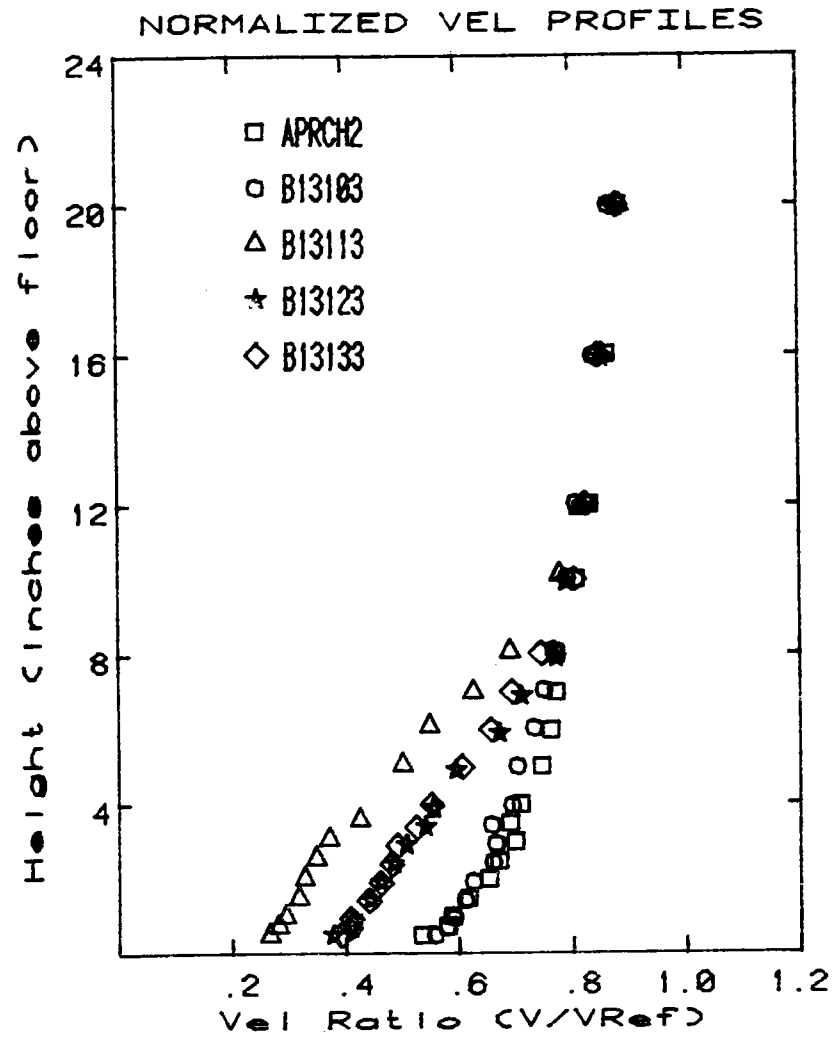
Graph # 4



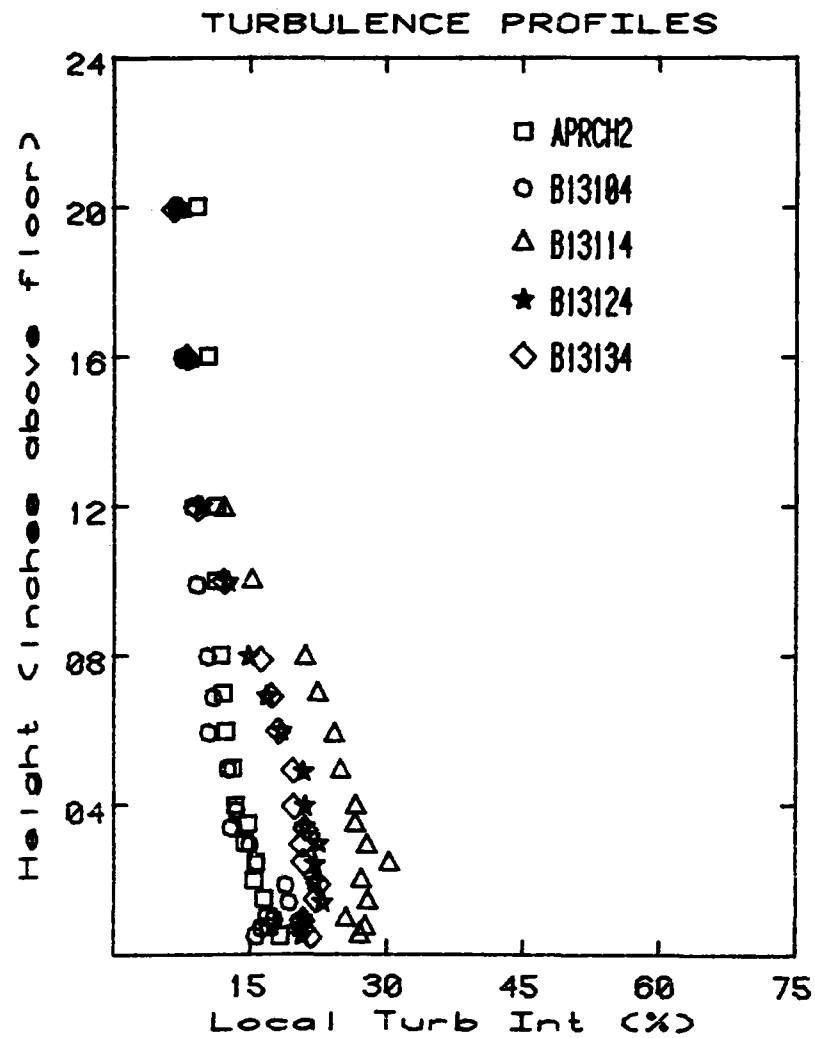
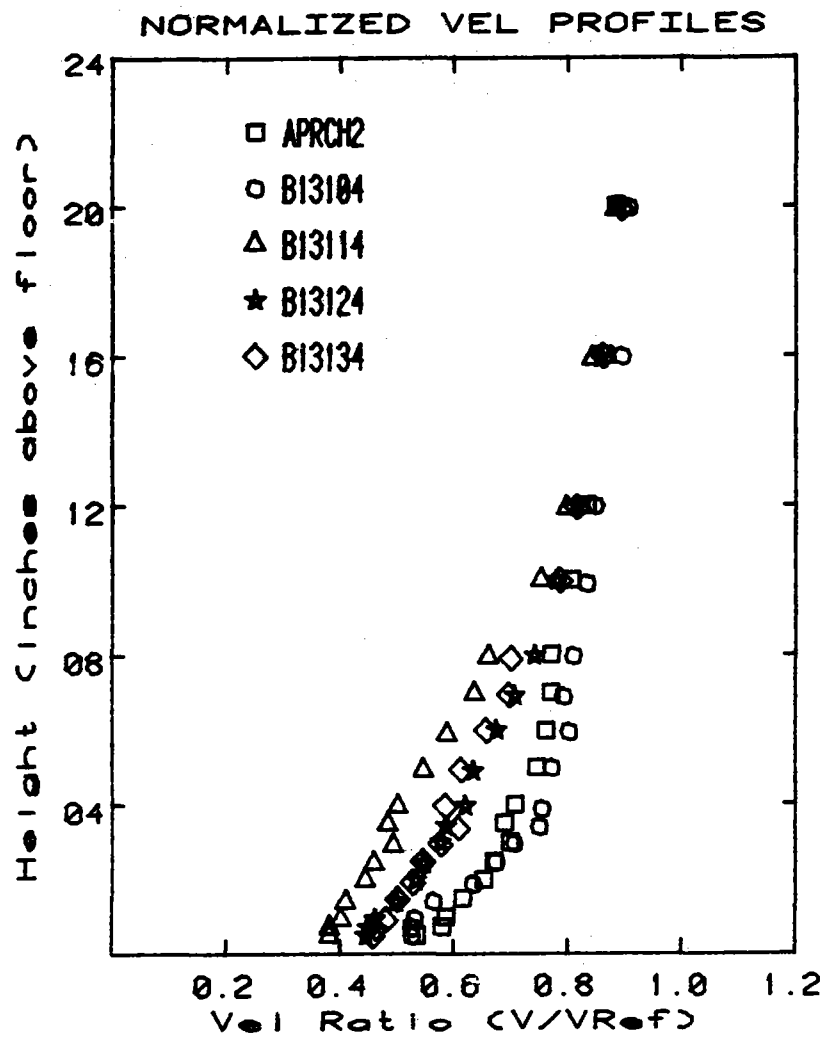
Graph # 5



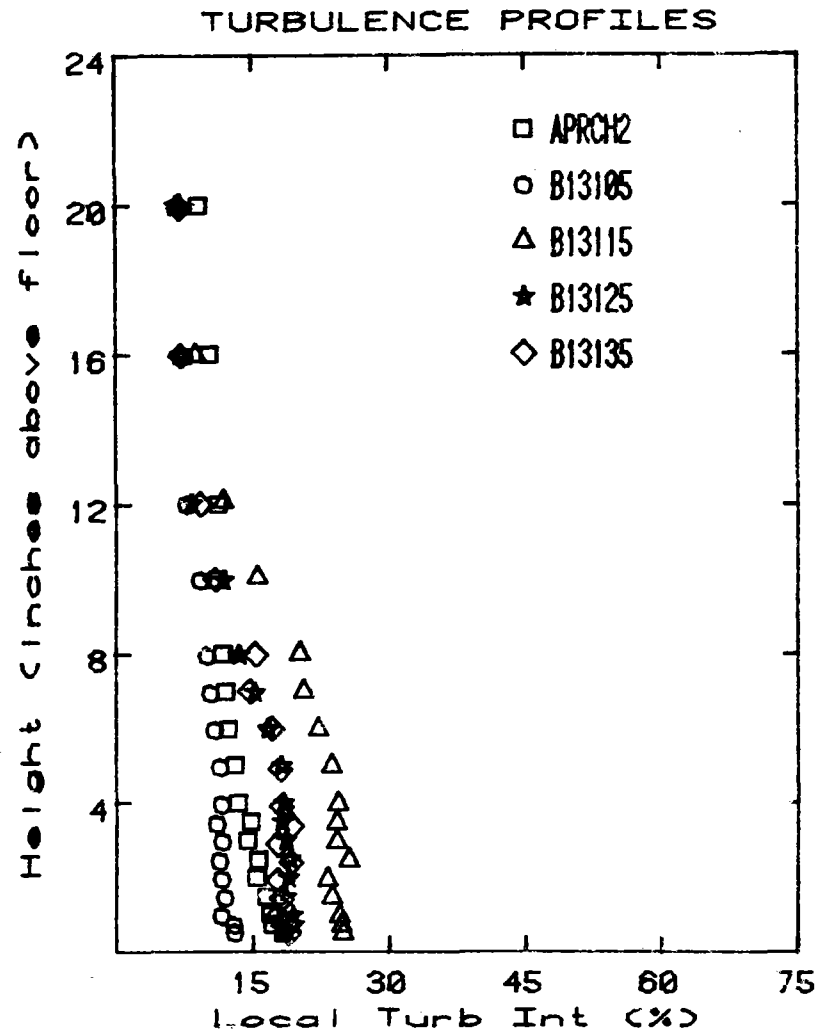
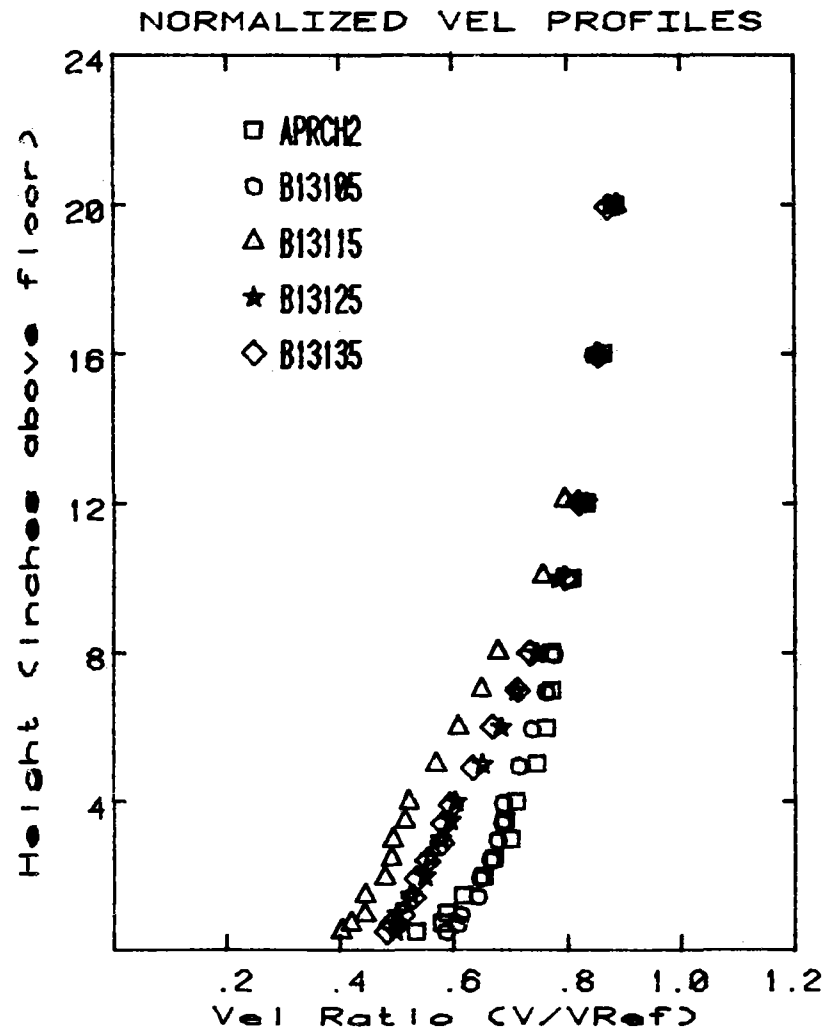
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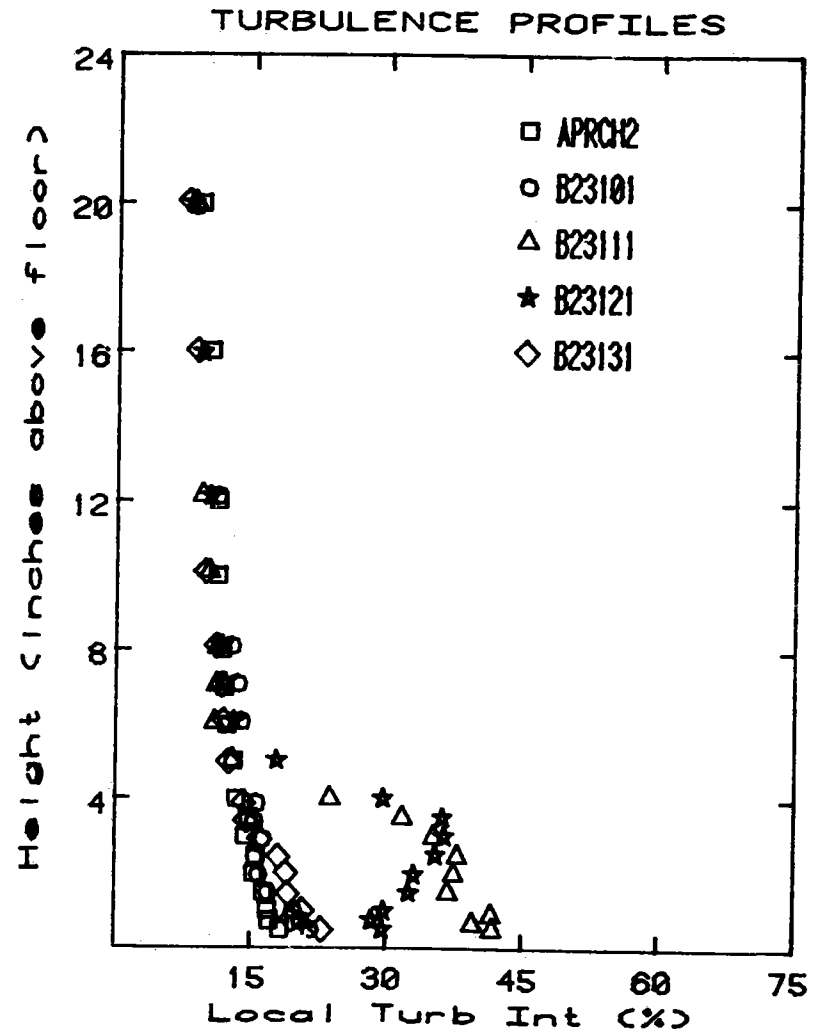
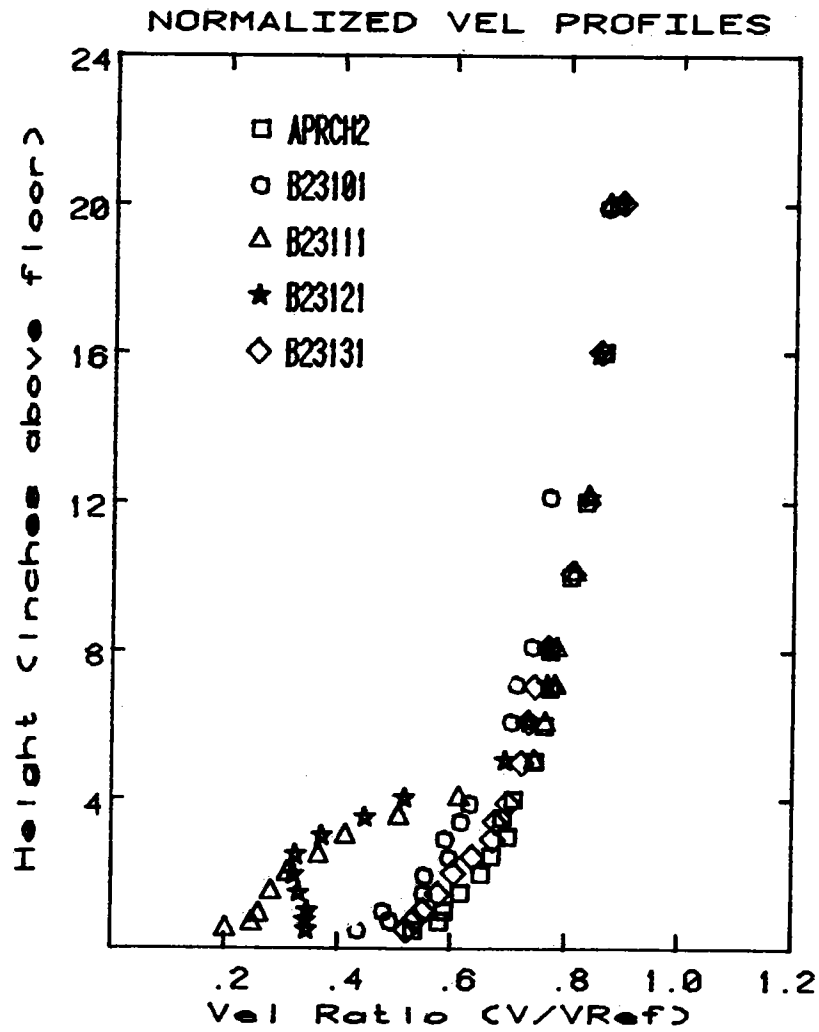
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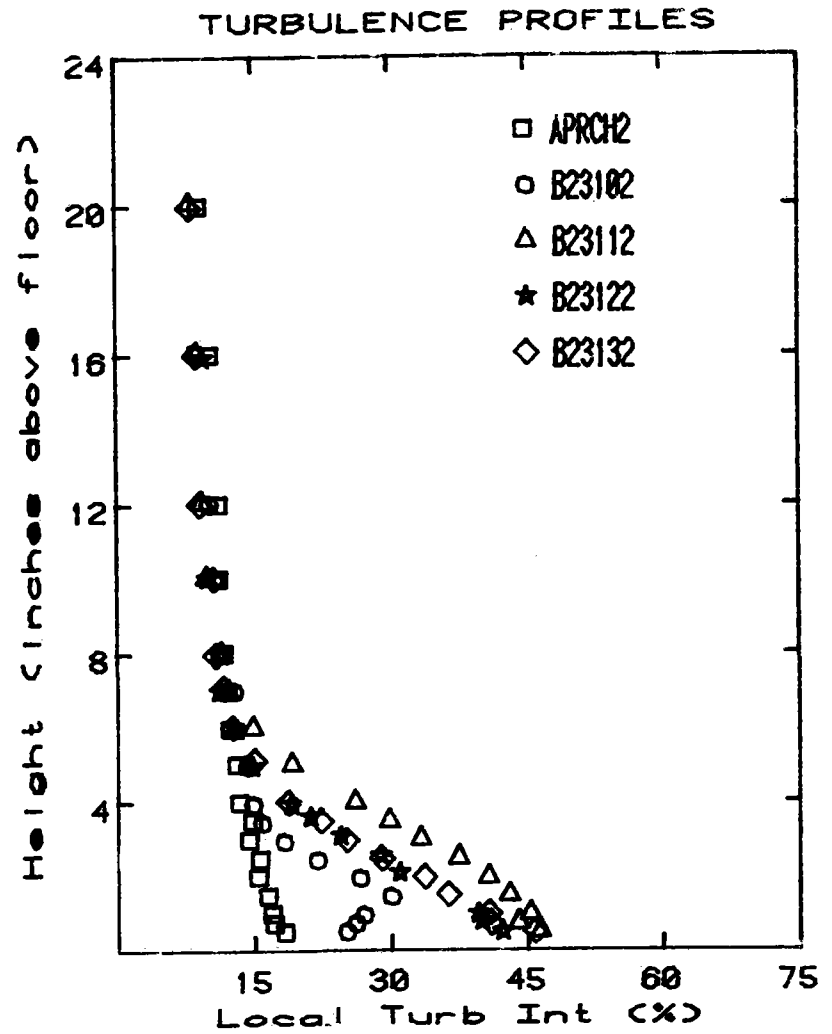
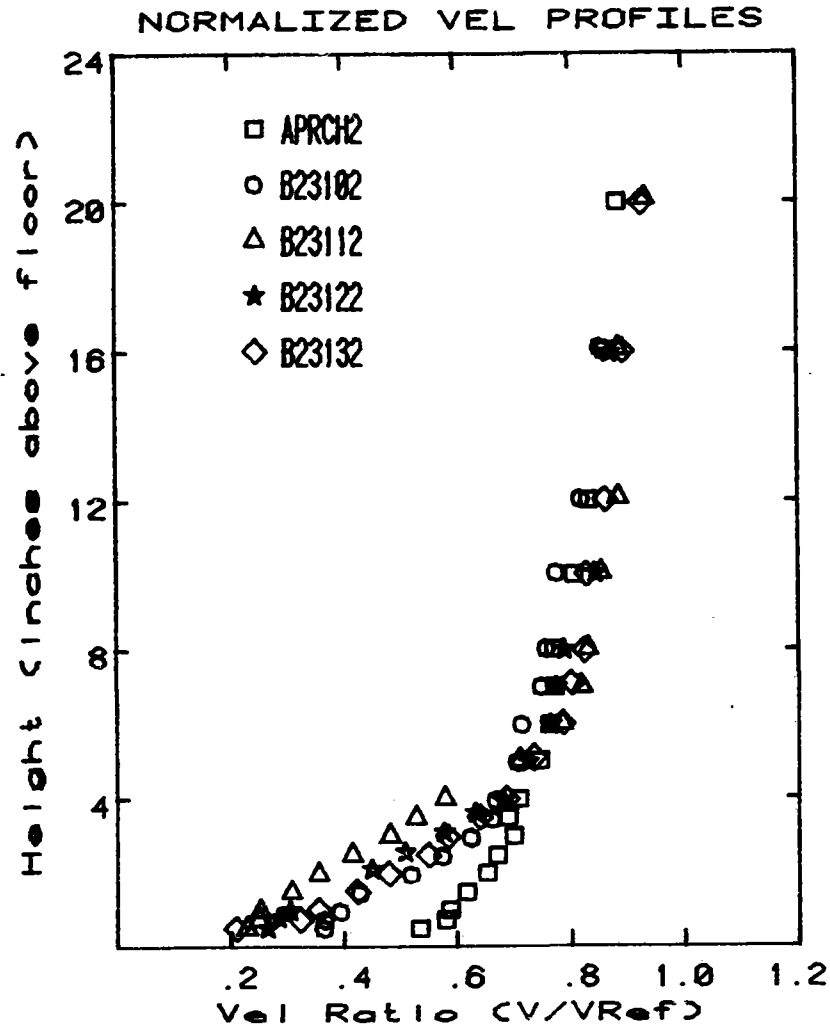
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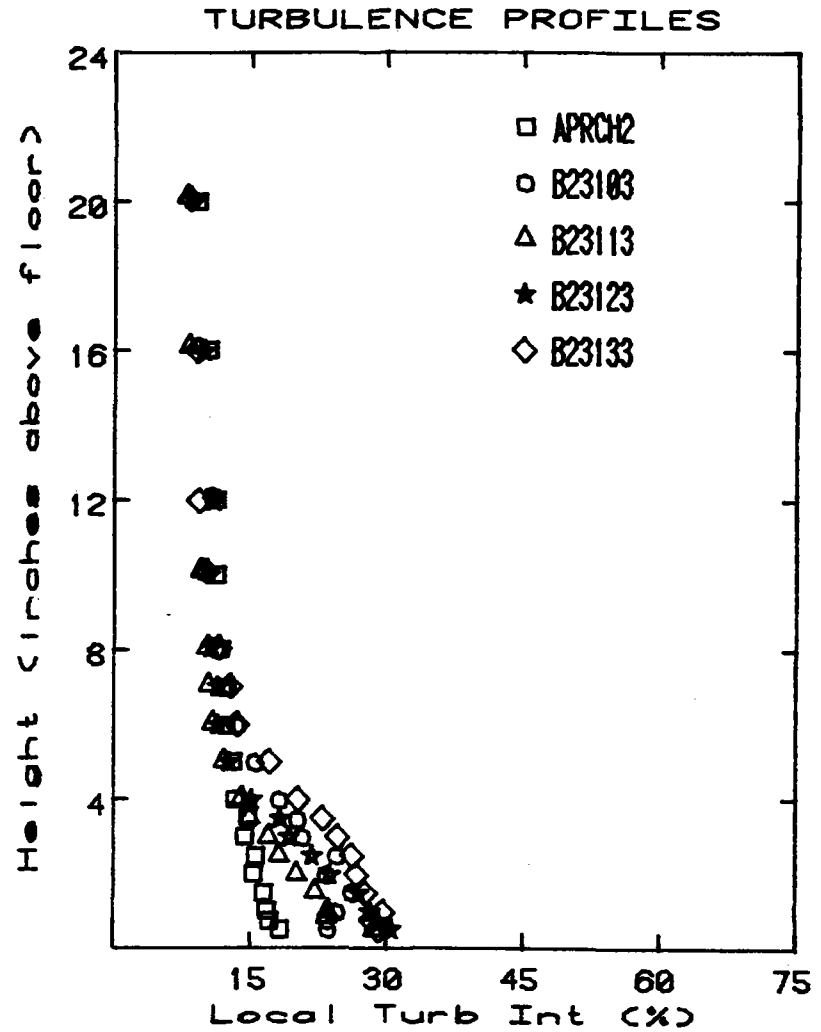
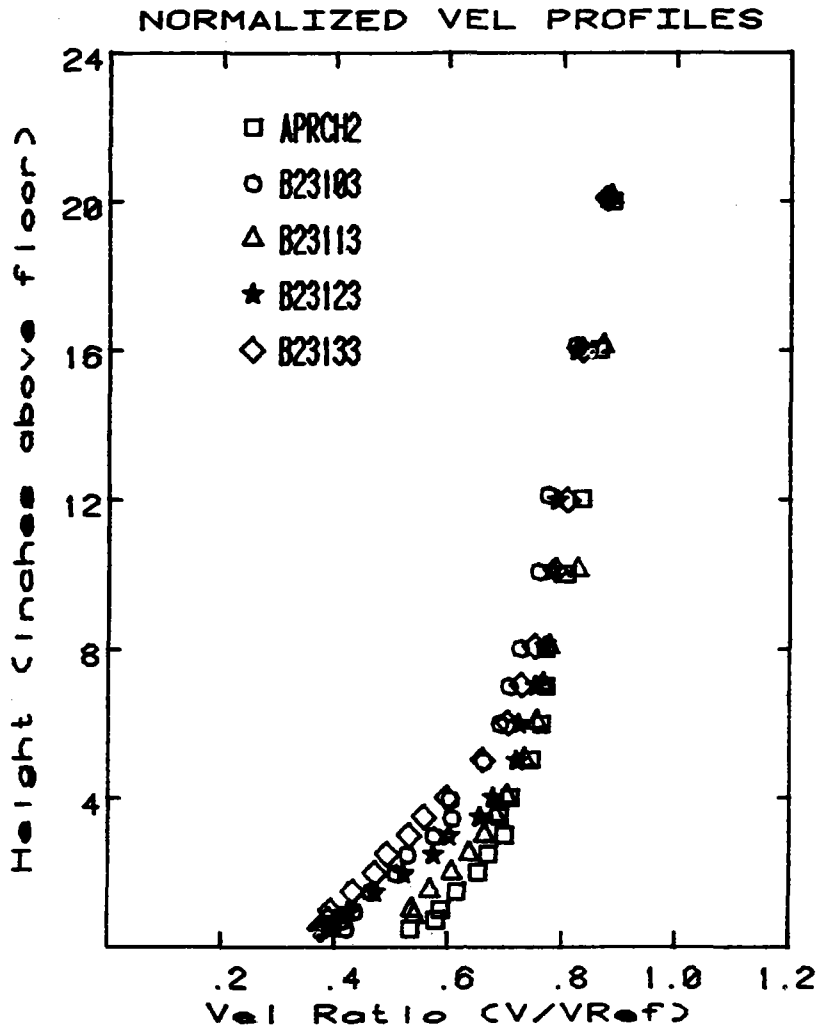
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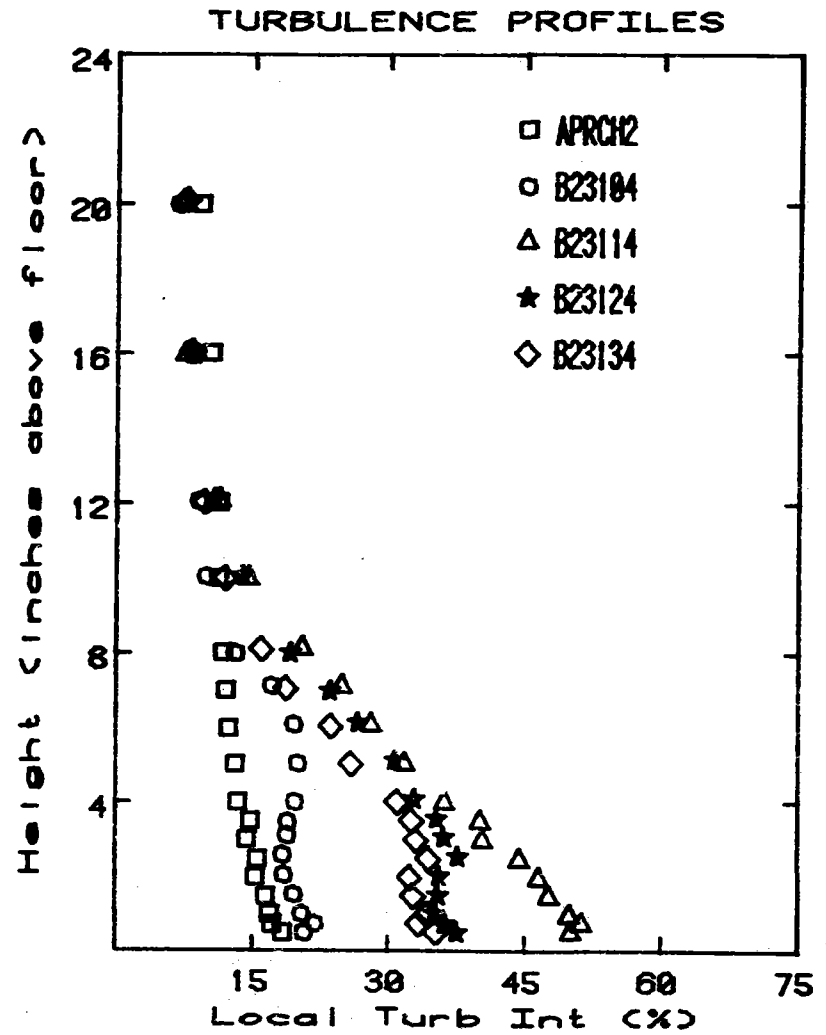
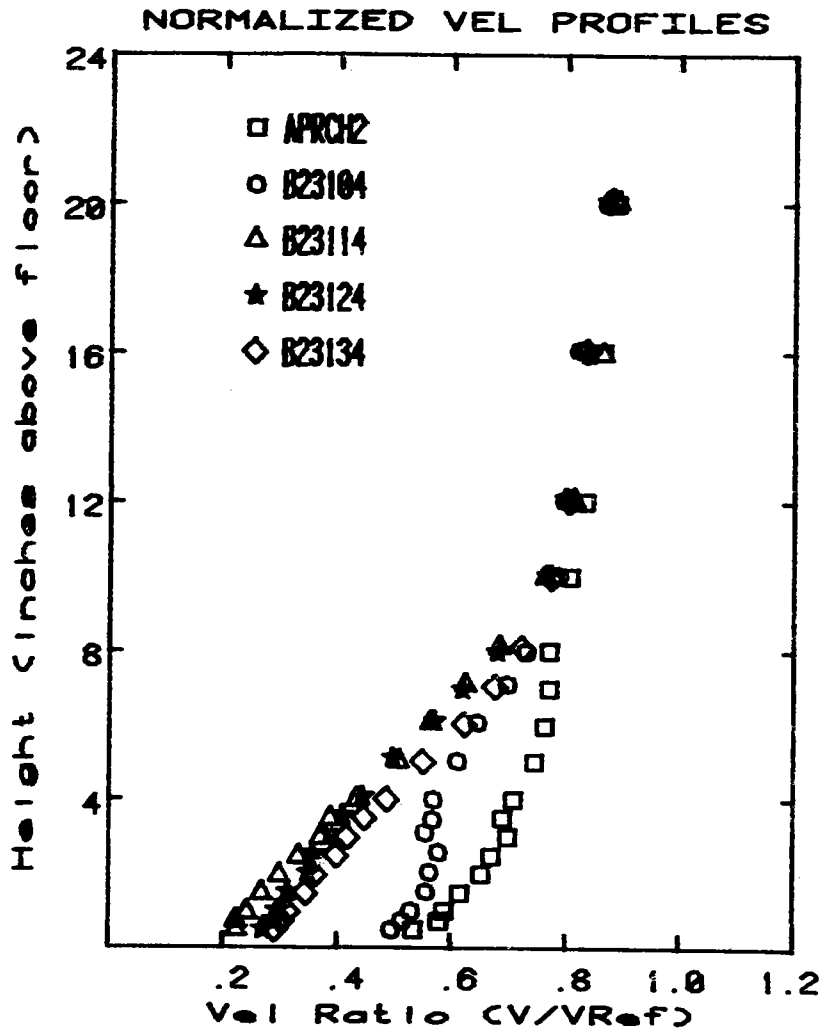
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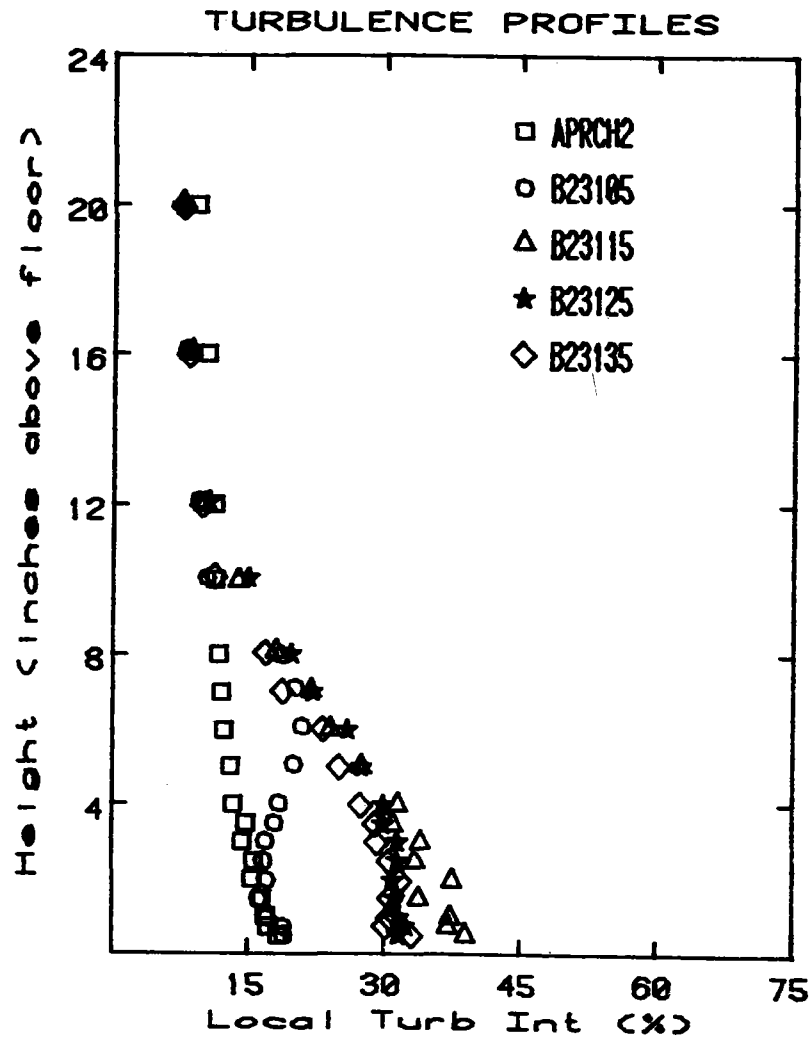
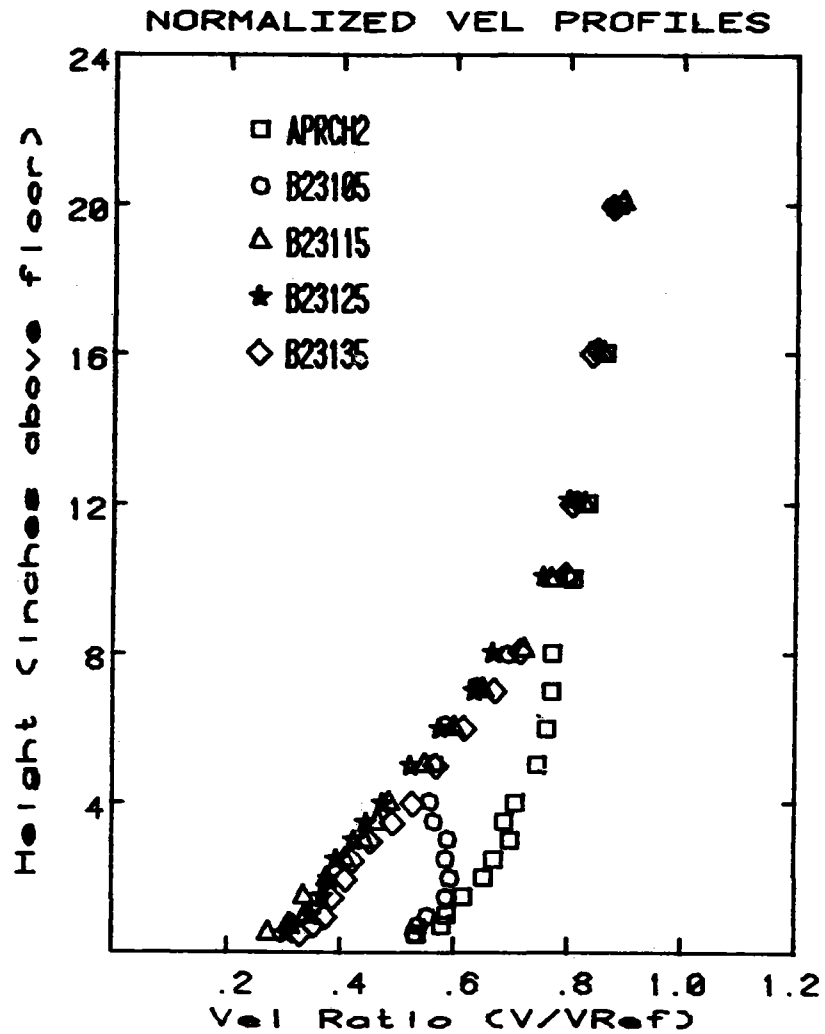
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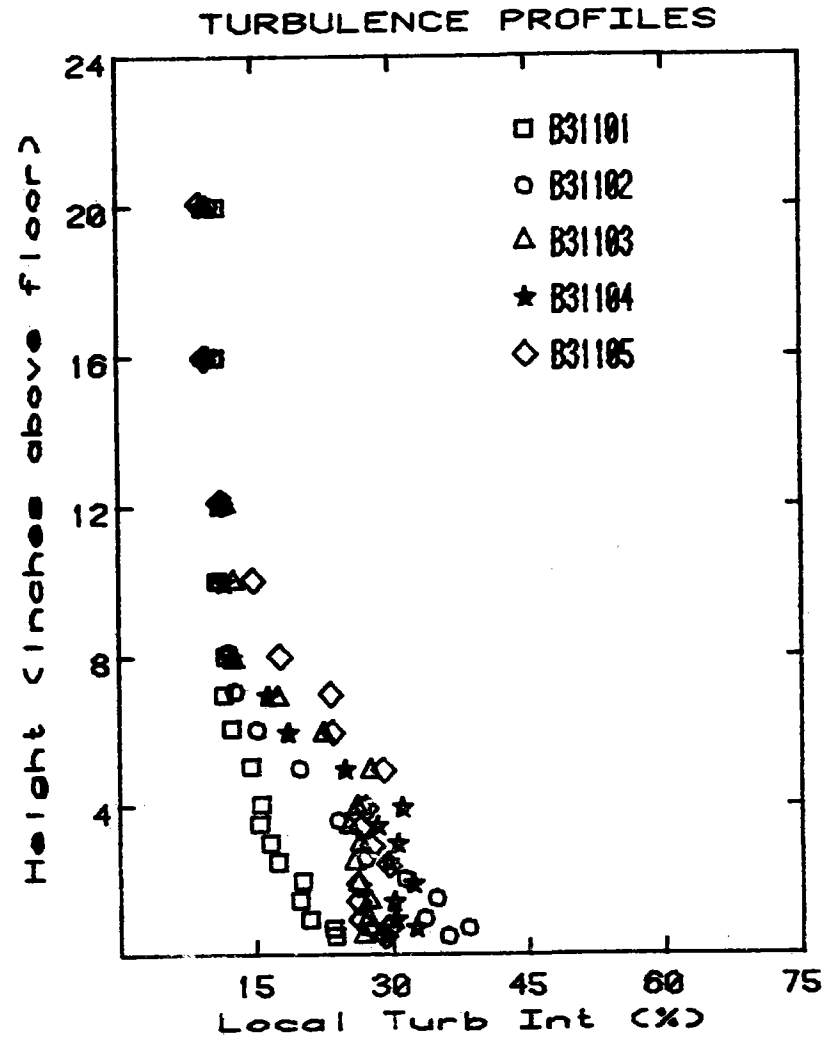
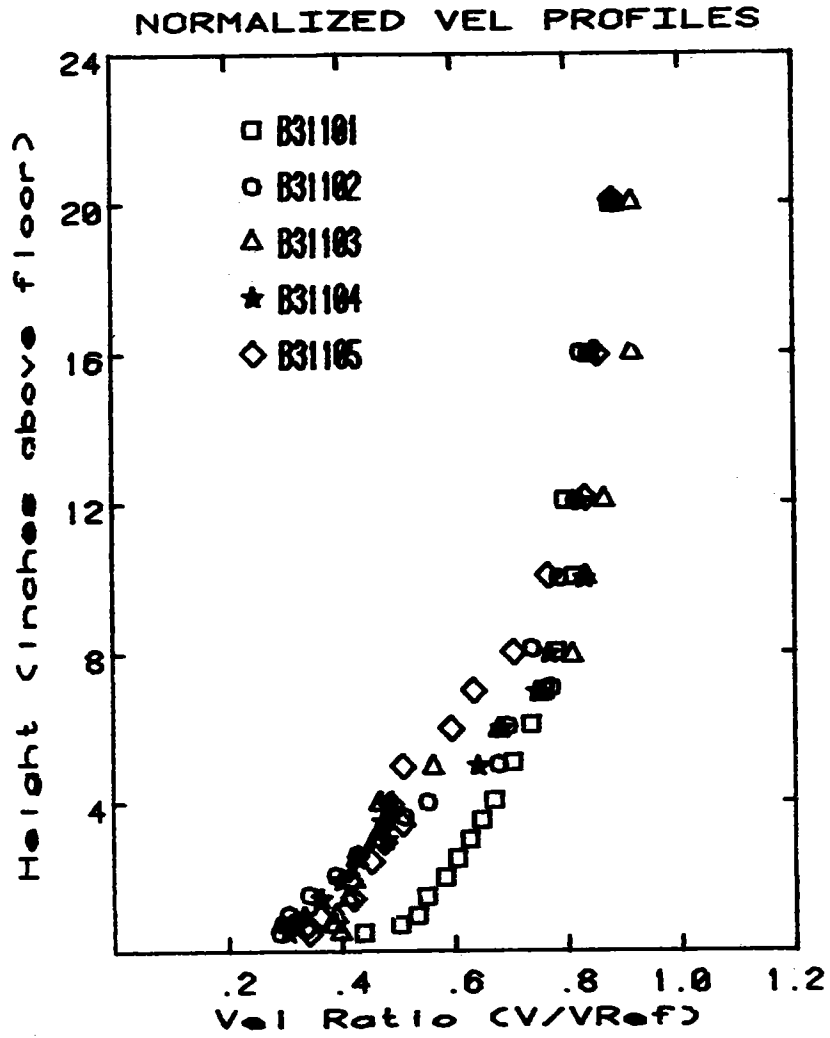
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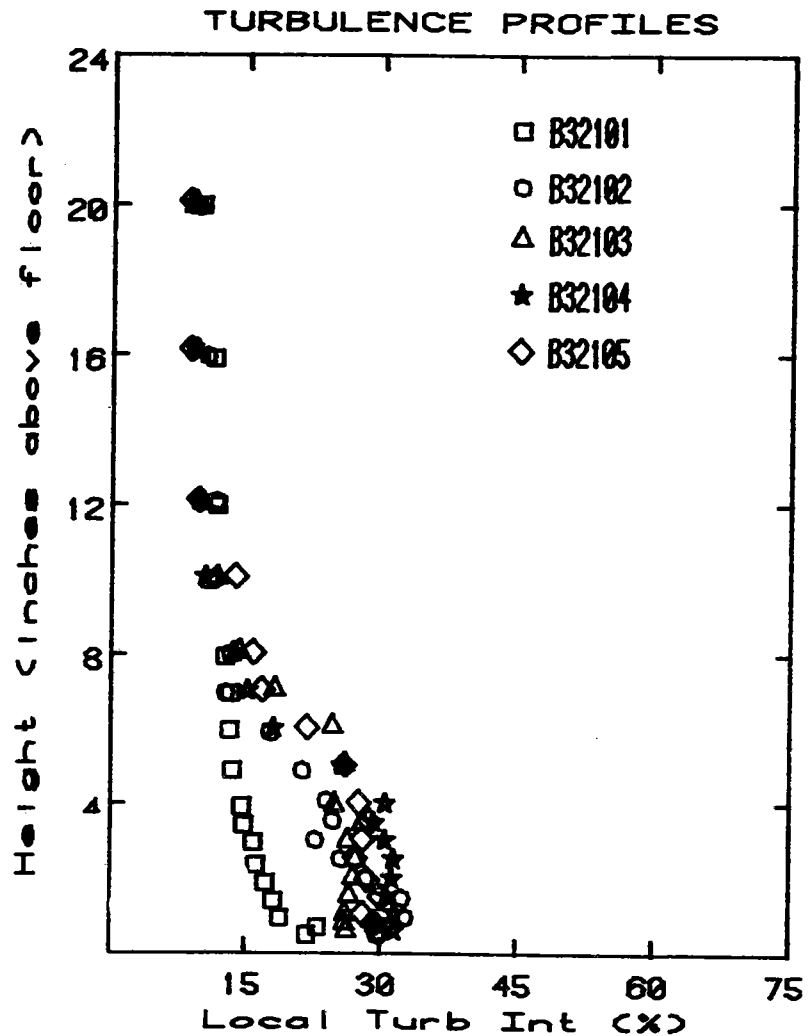
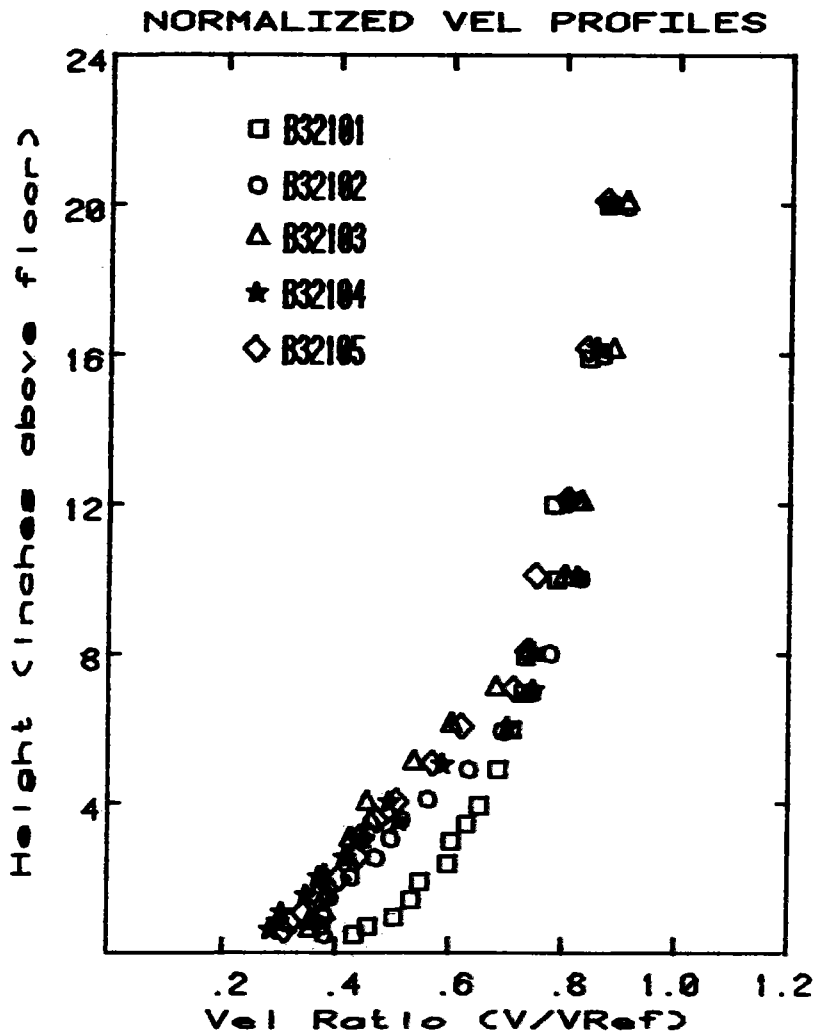
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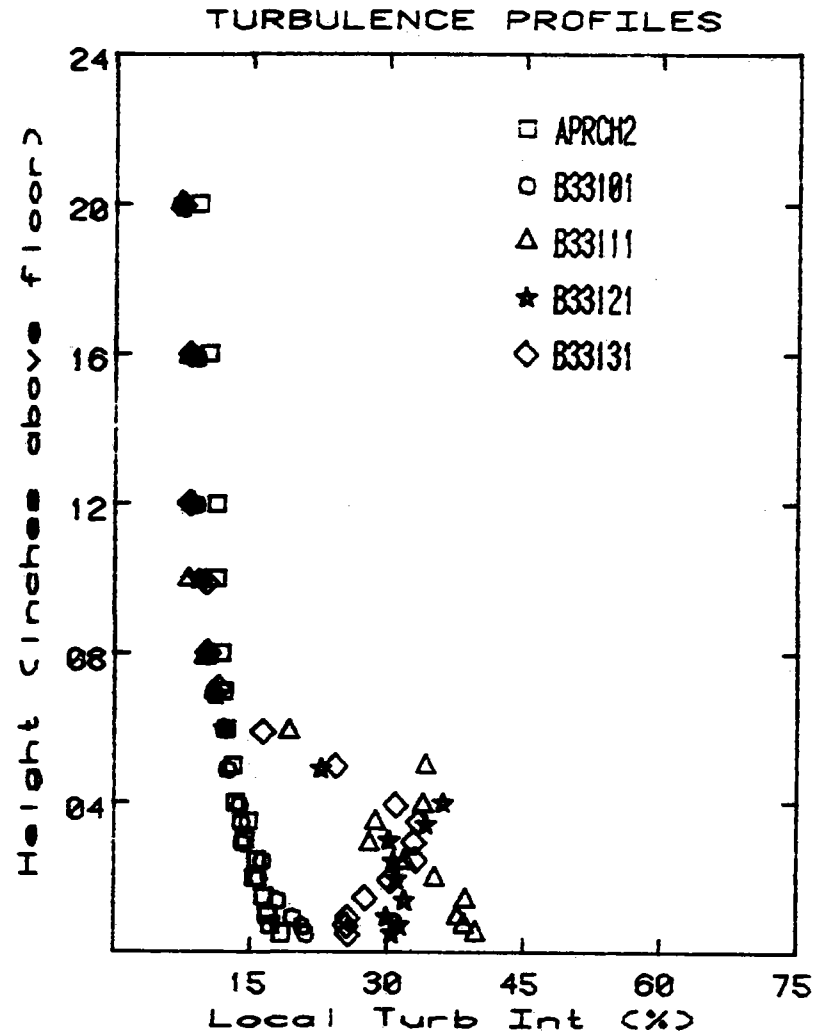
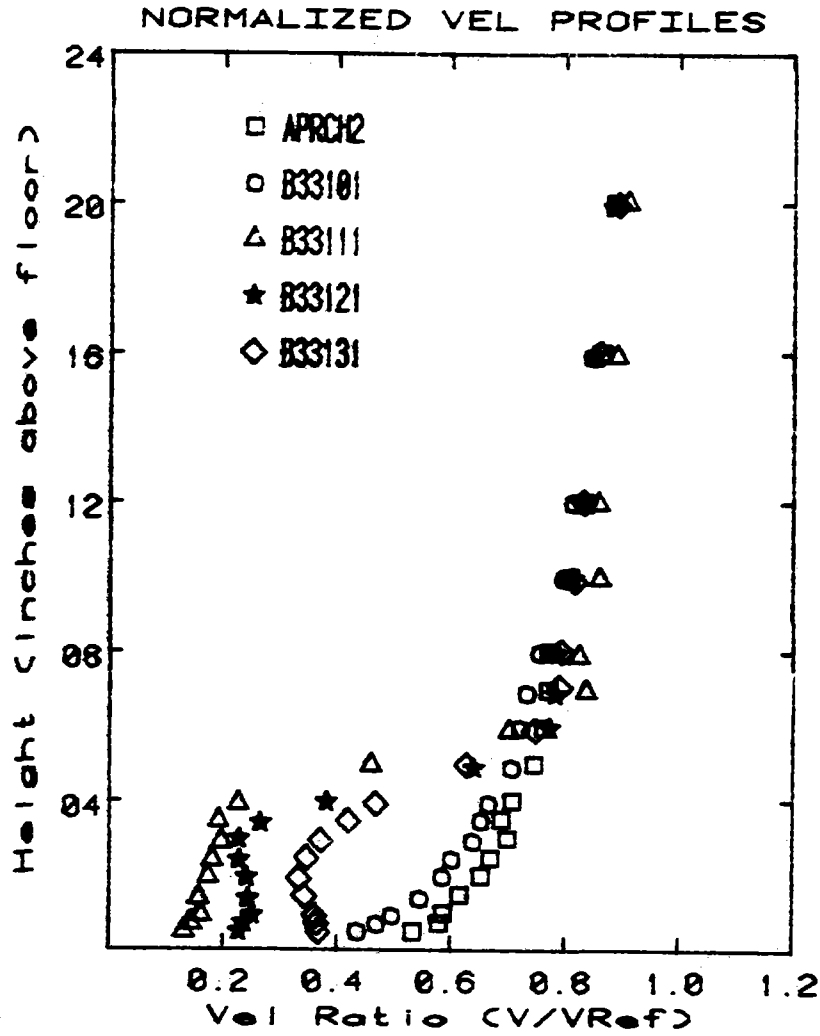
Graph # 14



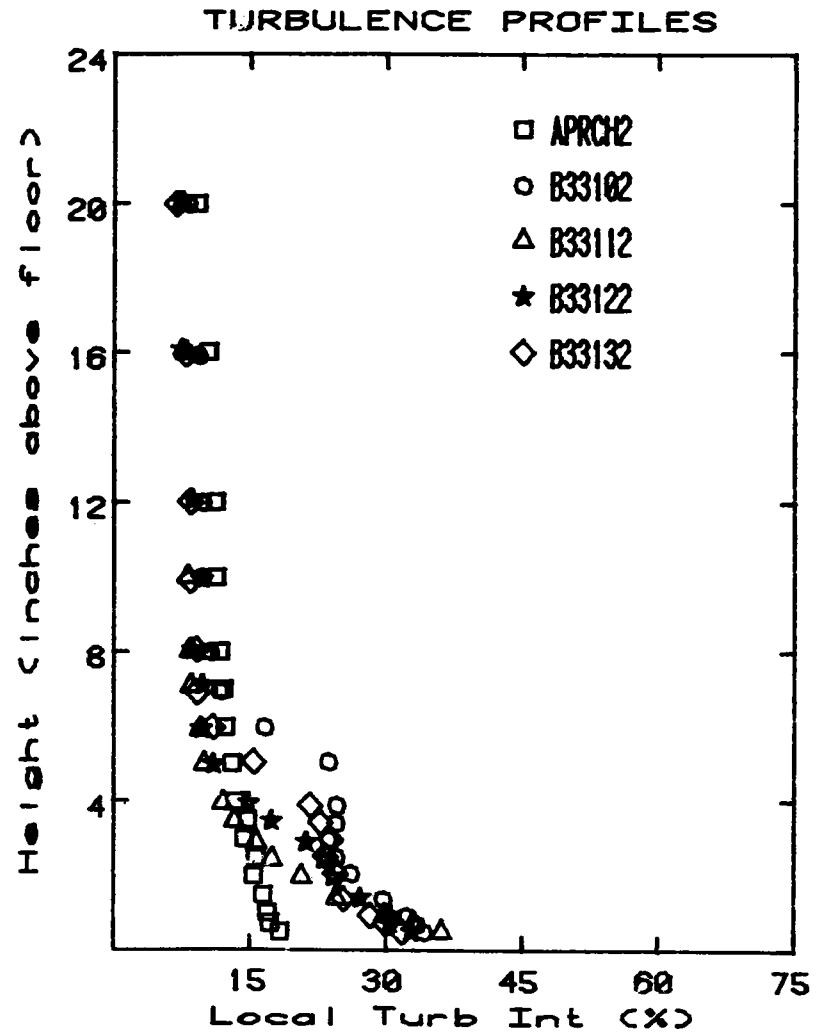
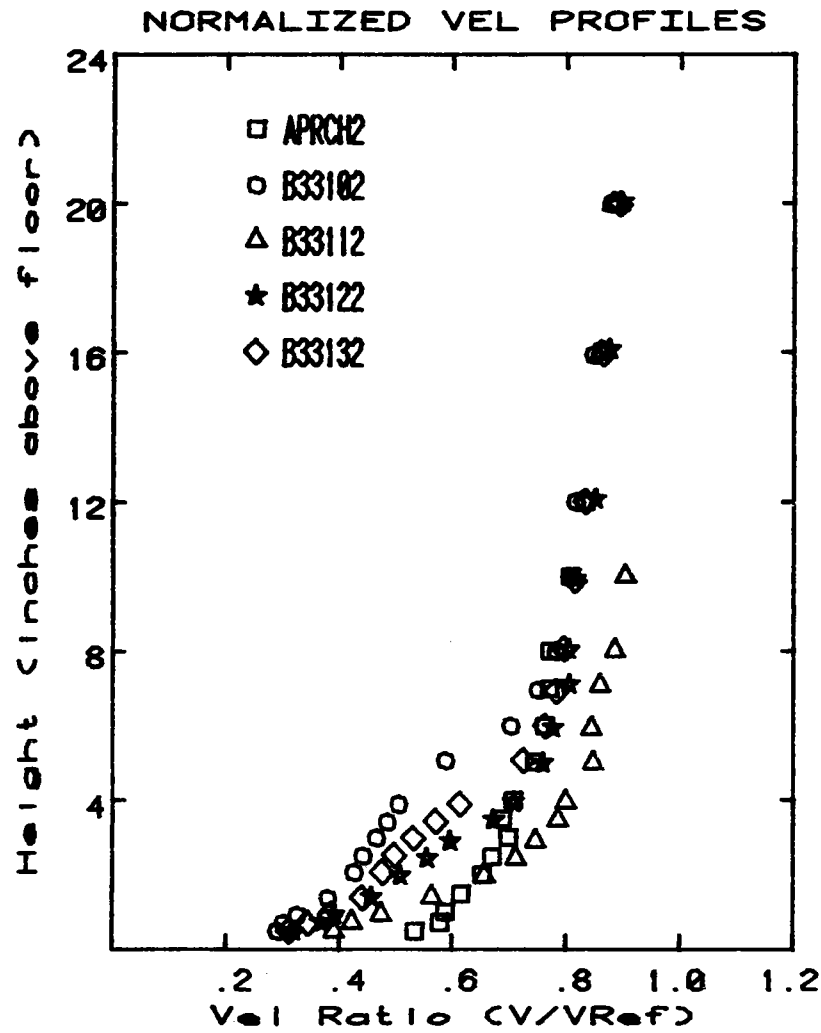
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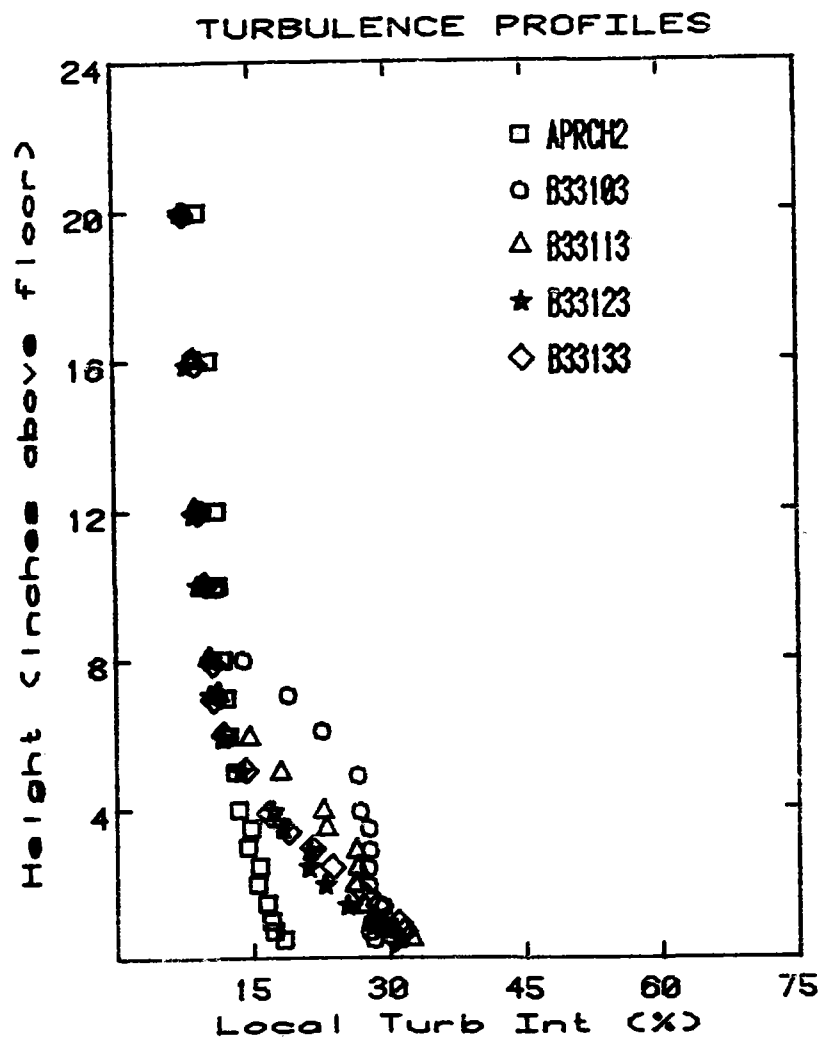
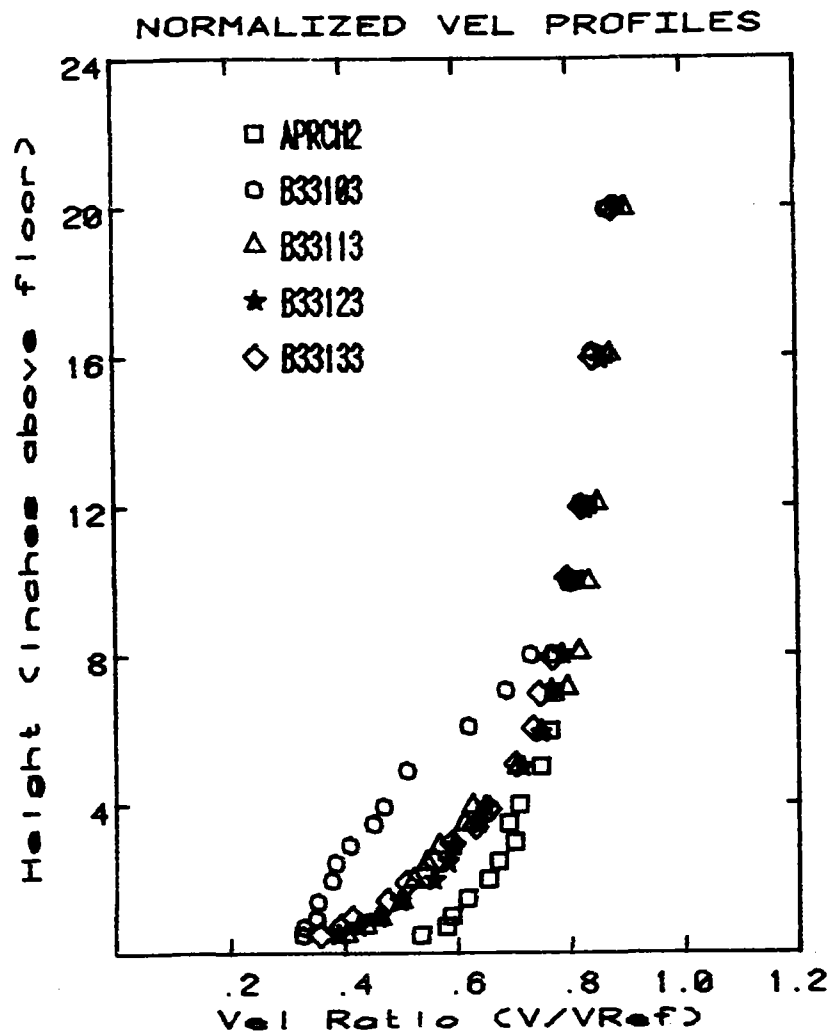
Graph # 16



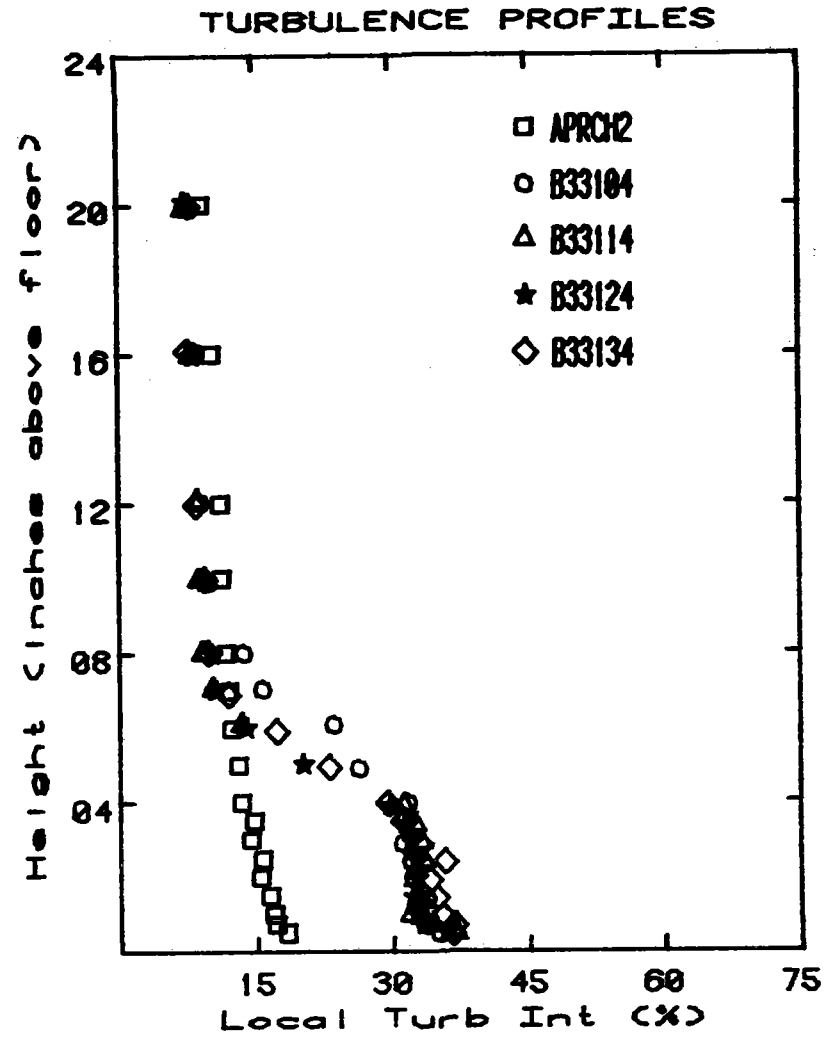
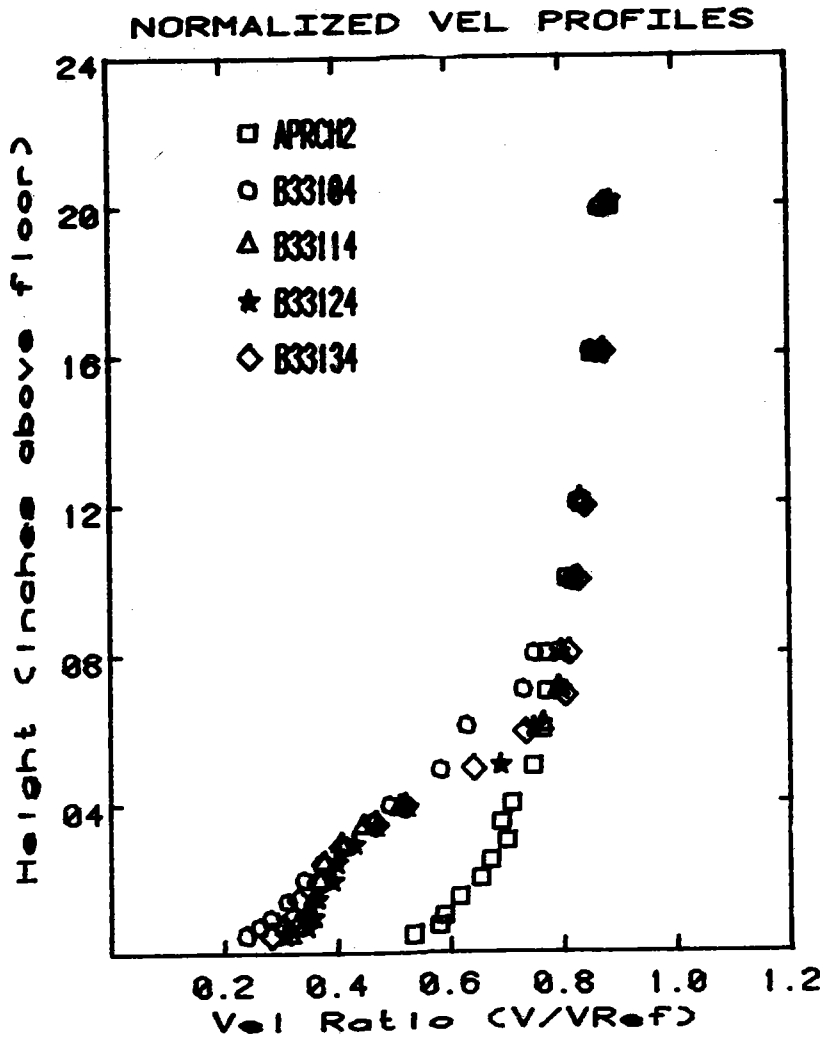
Graph # 17



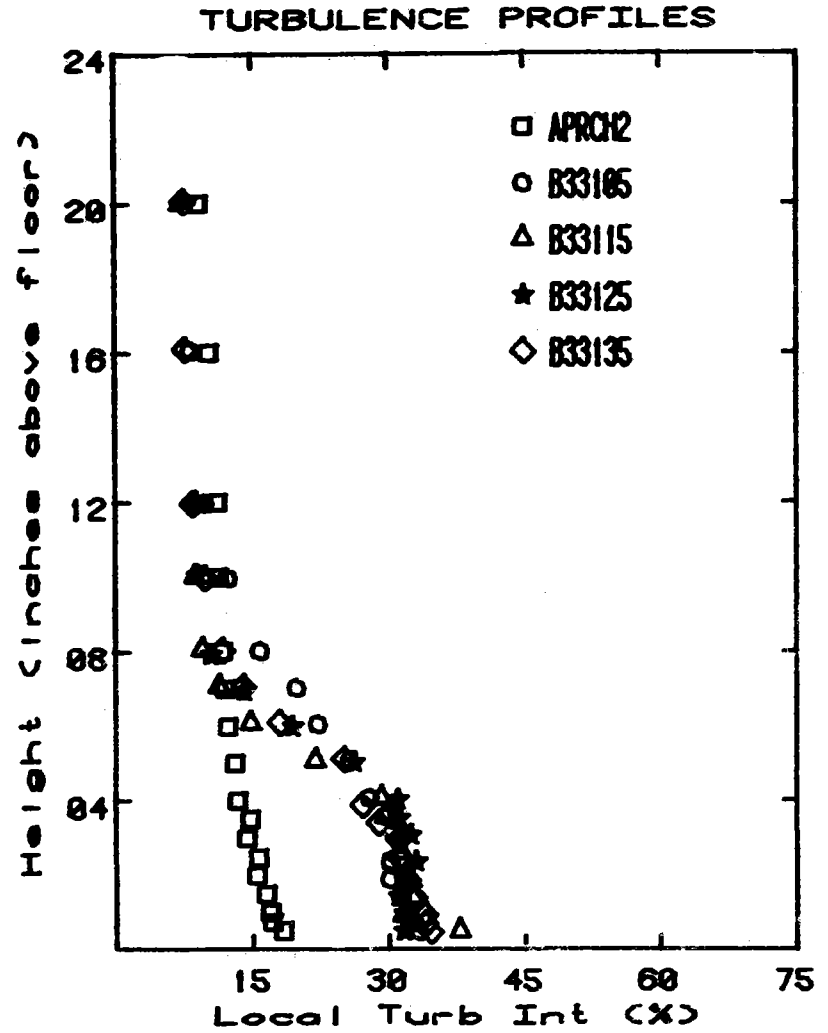
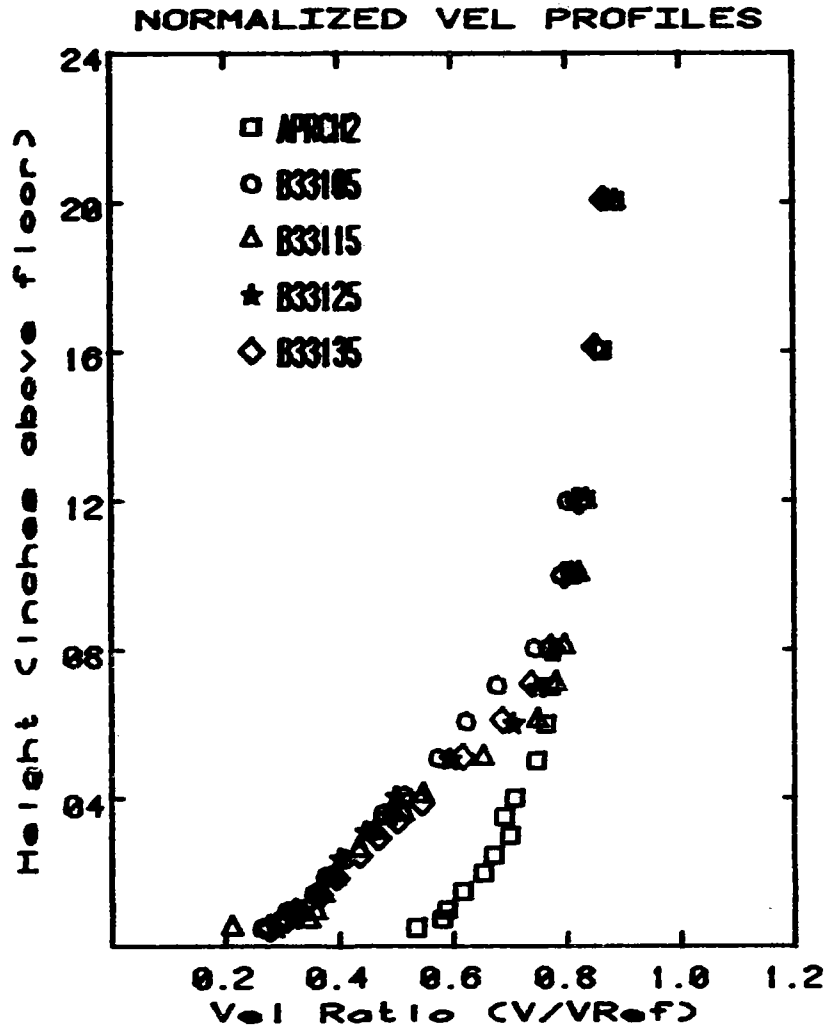
Graph # 18



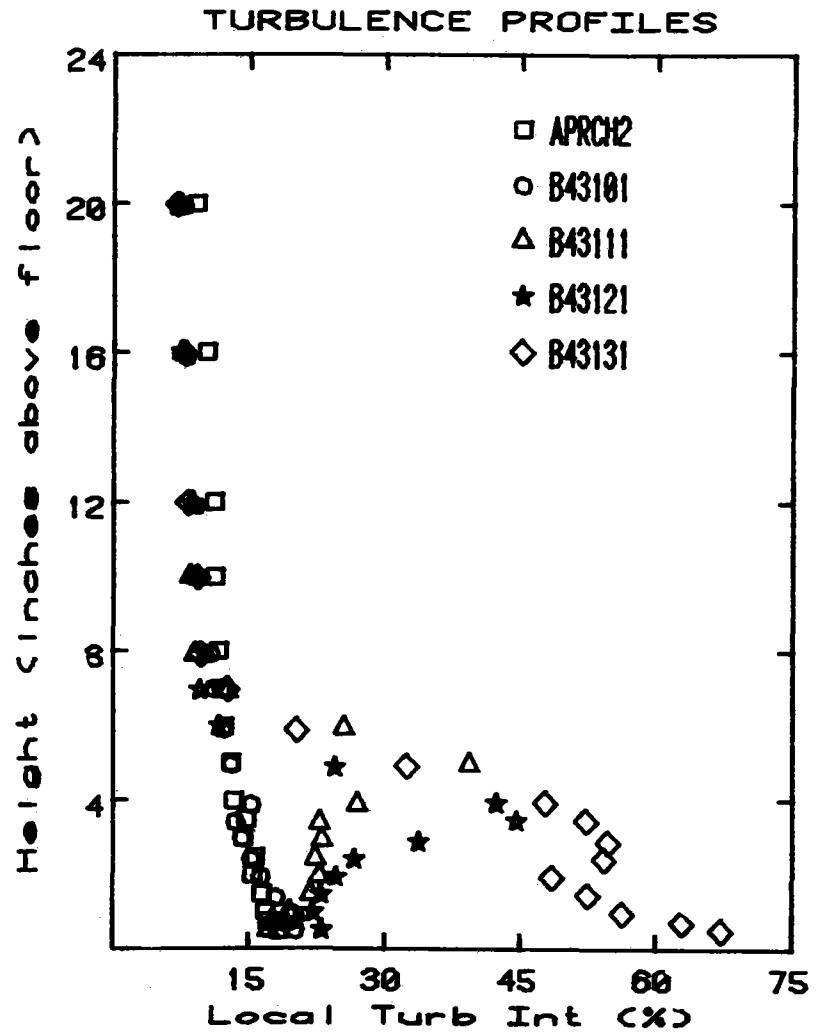
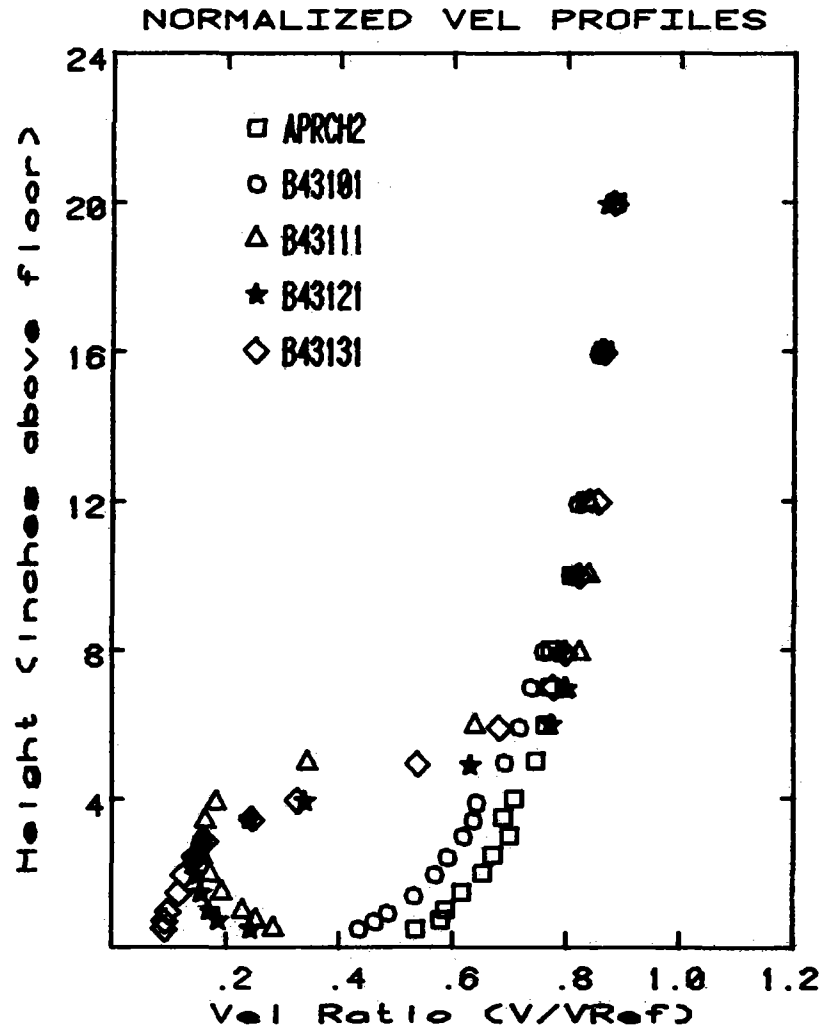
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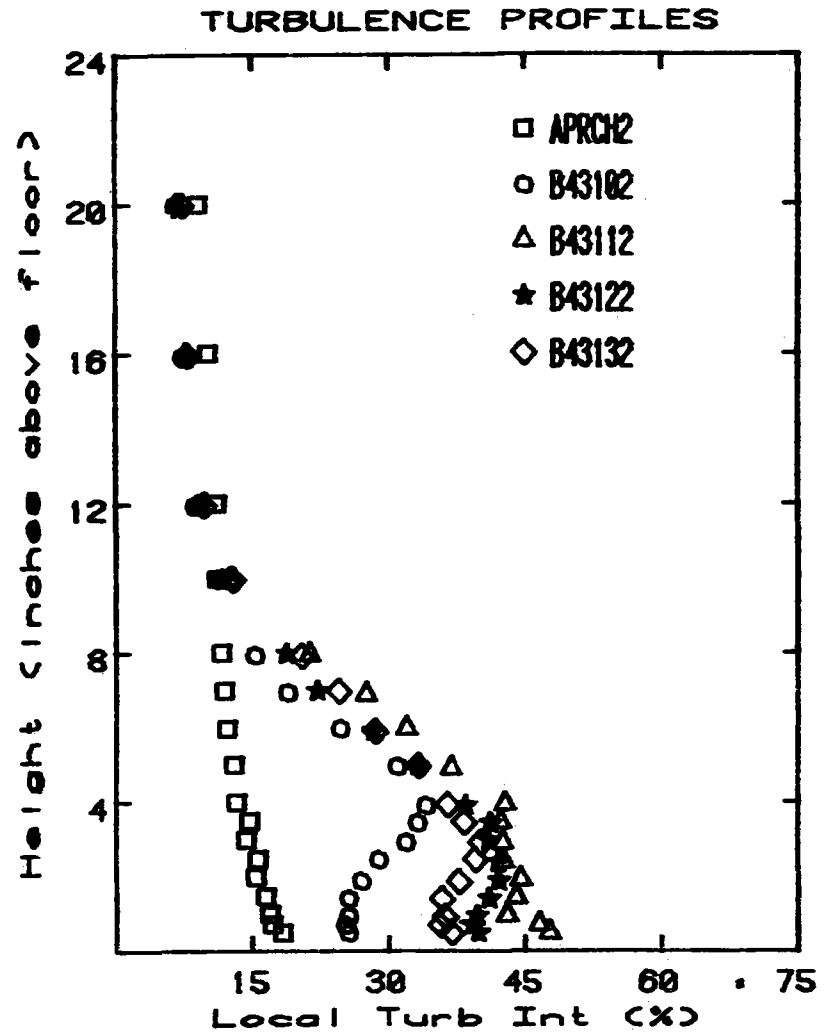
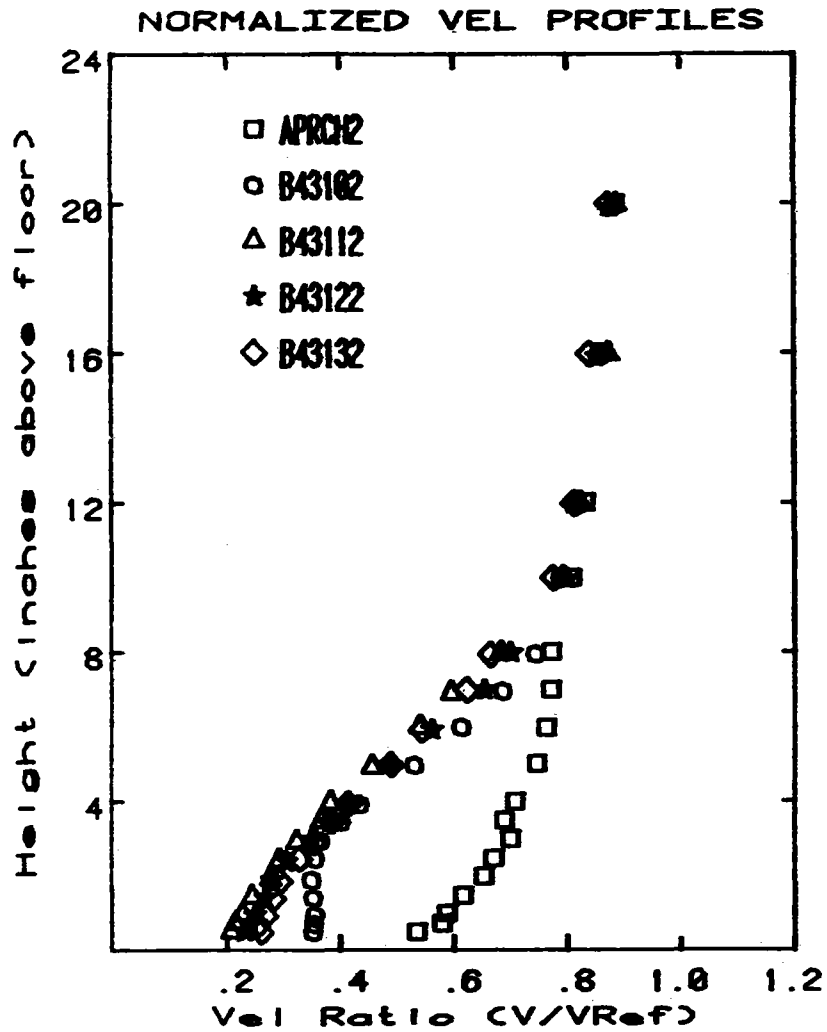
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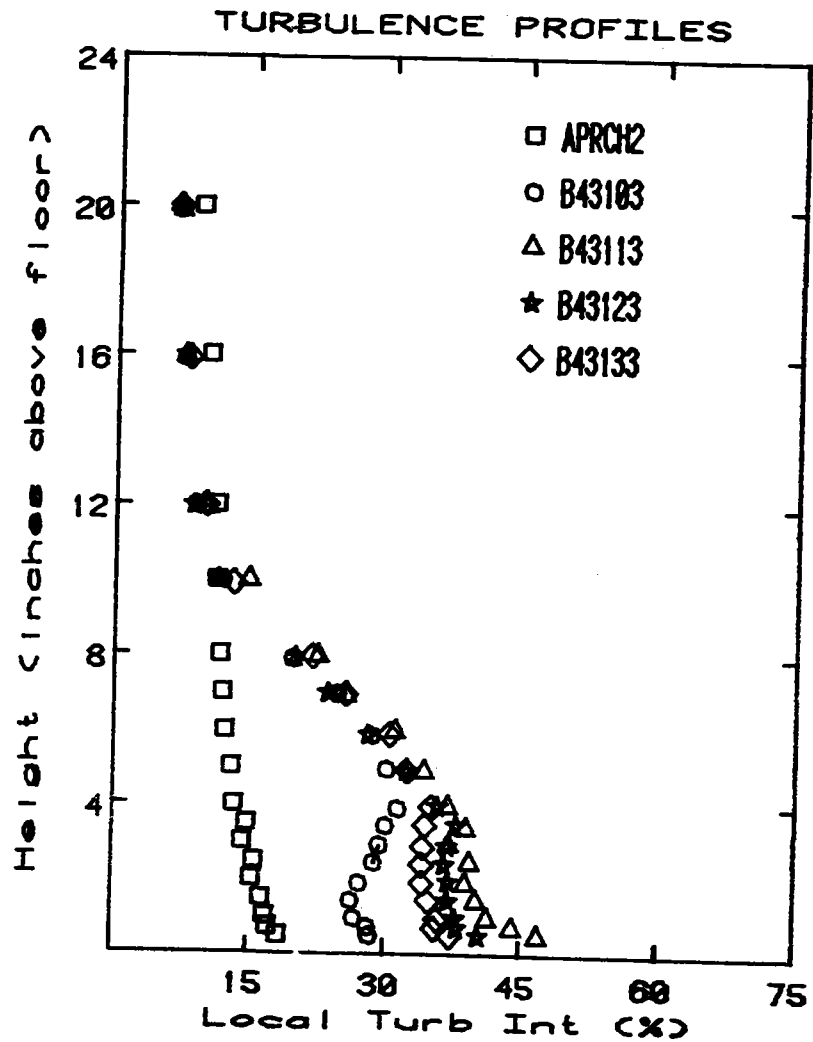
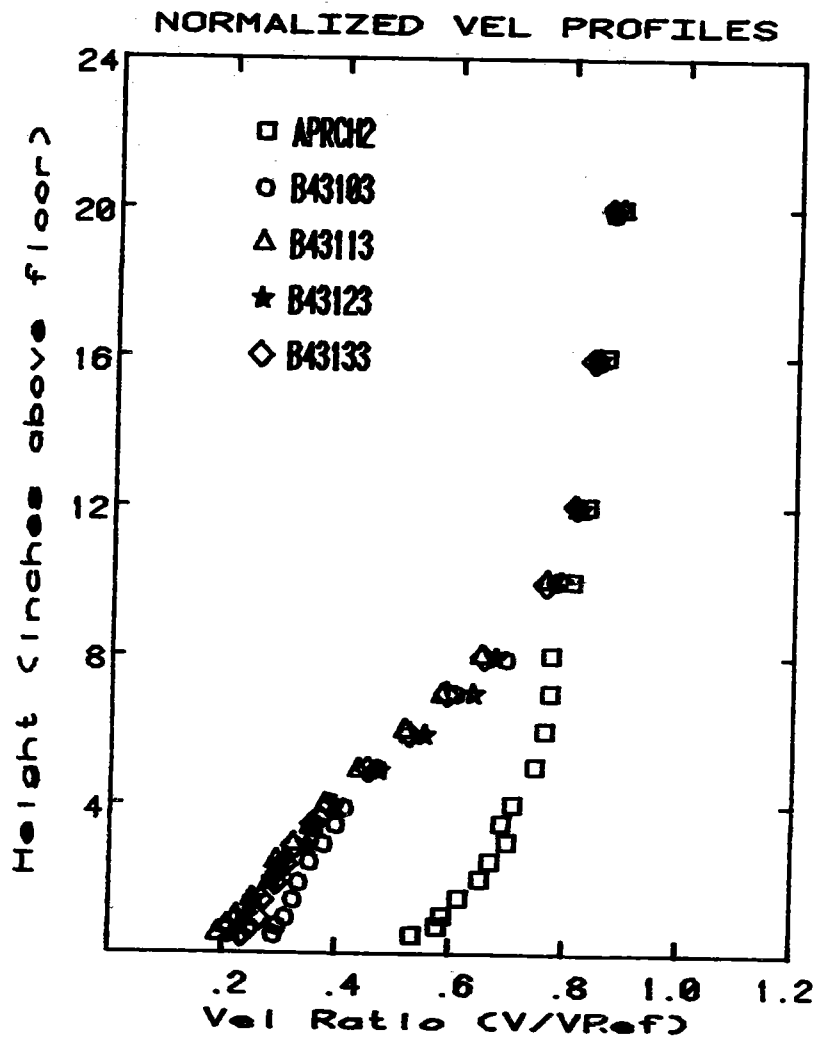
Graph # 21



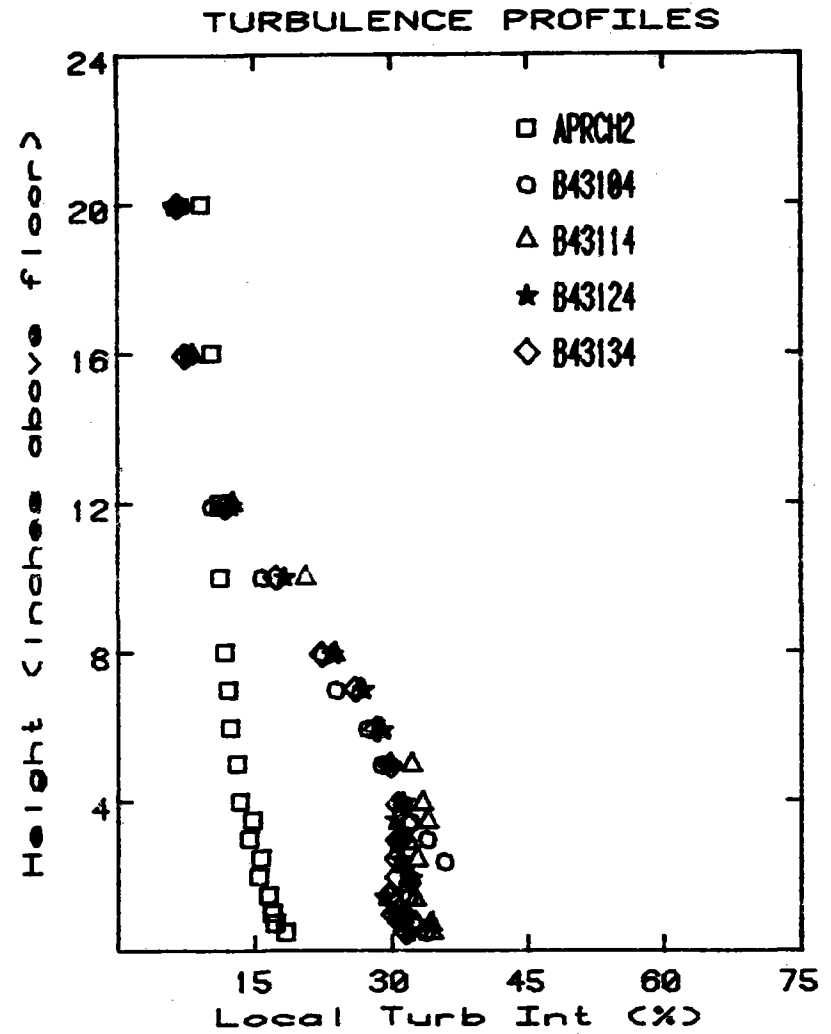
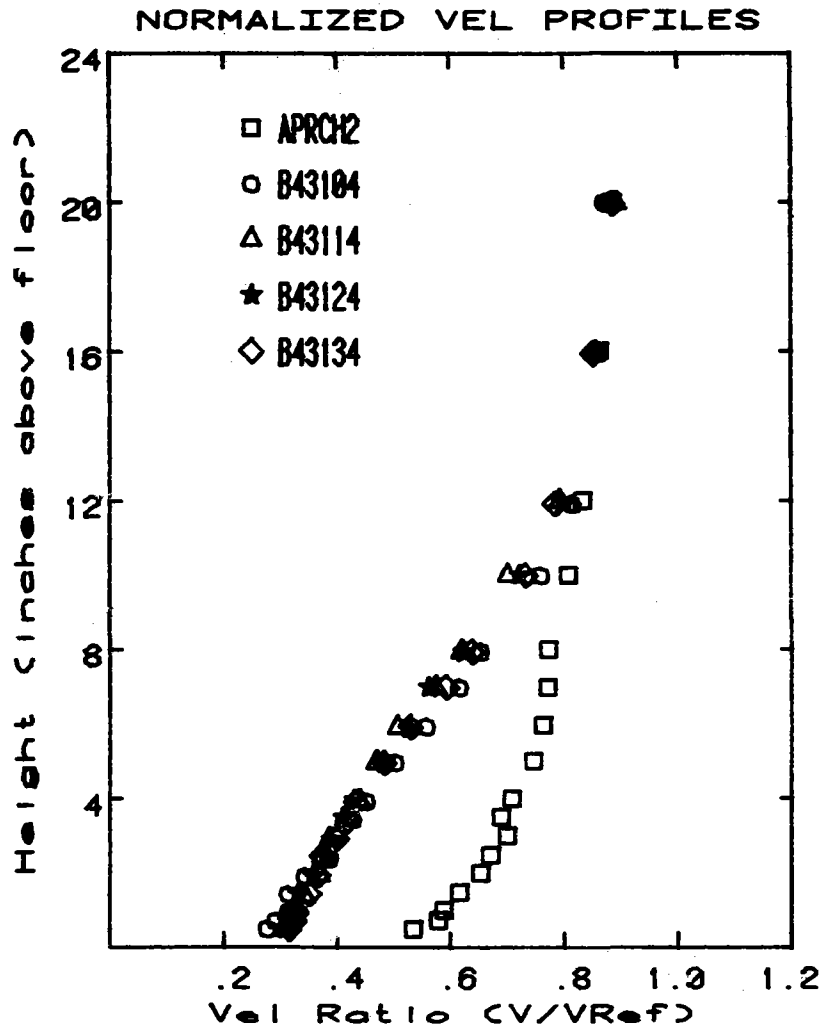
Graph # 22



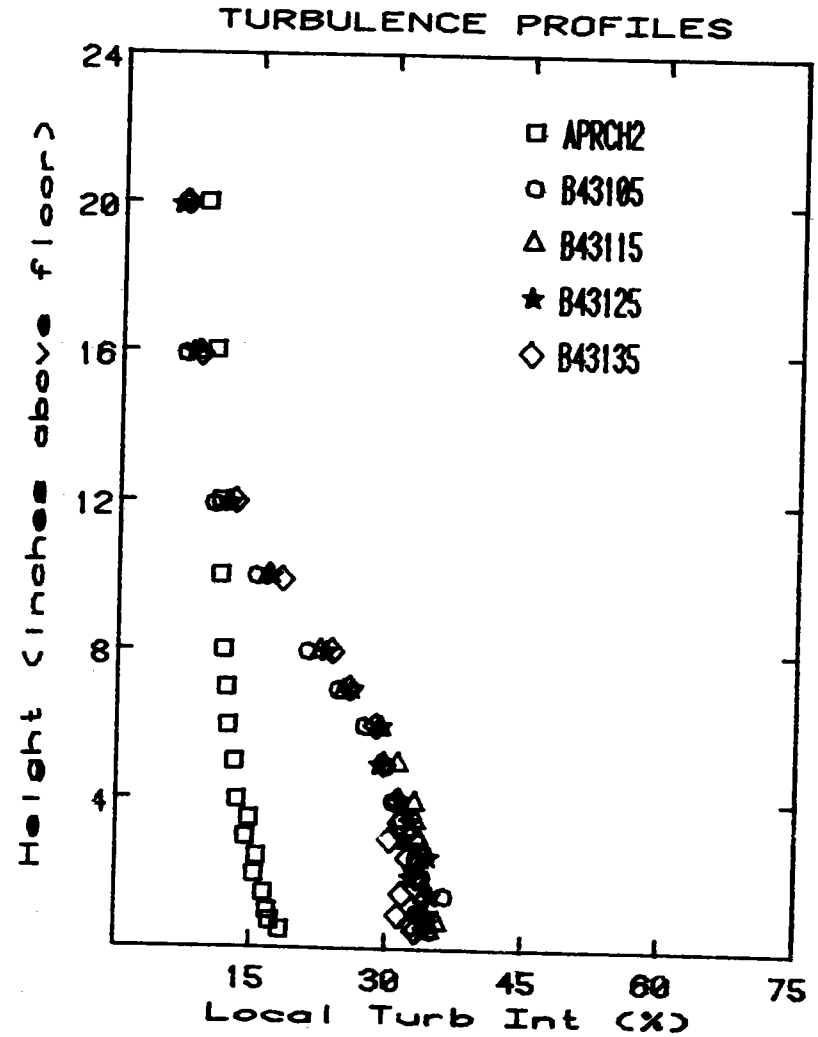
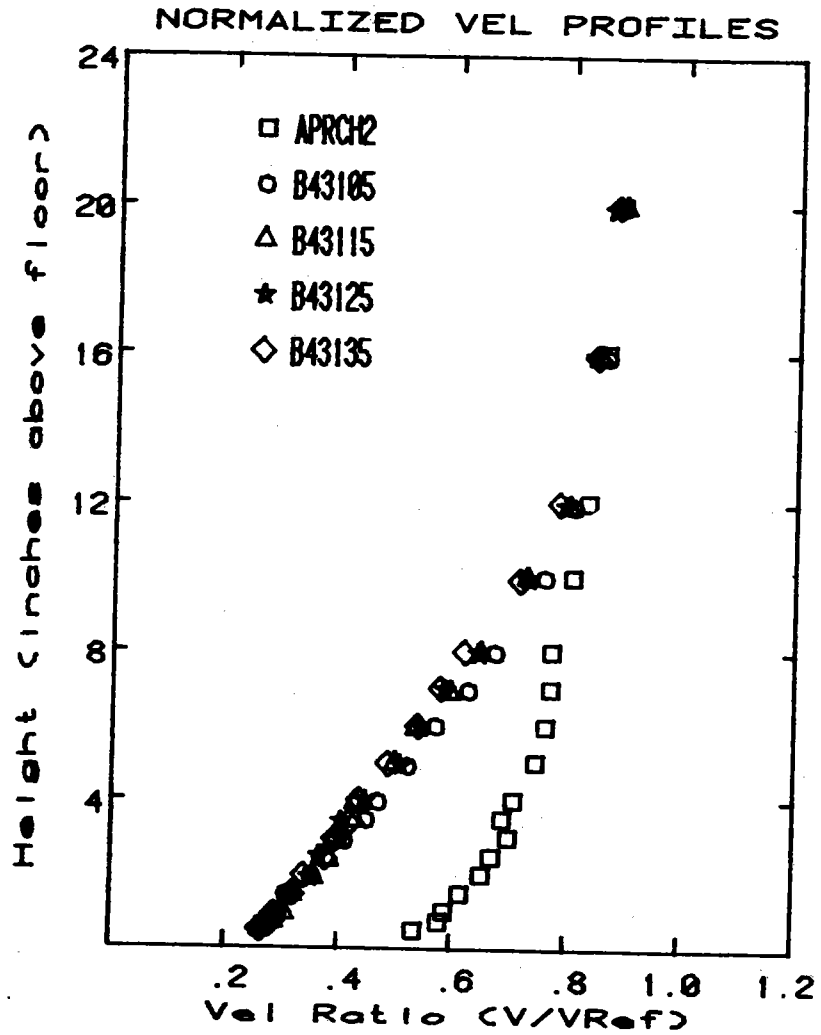
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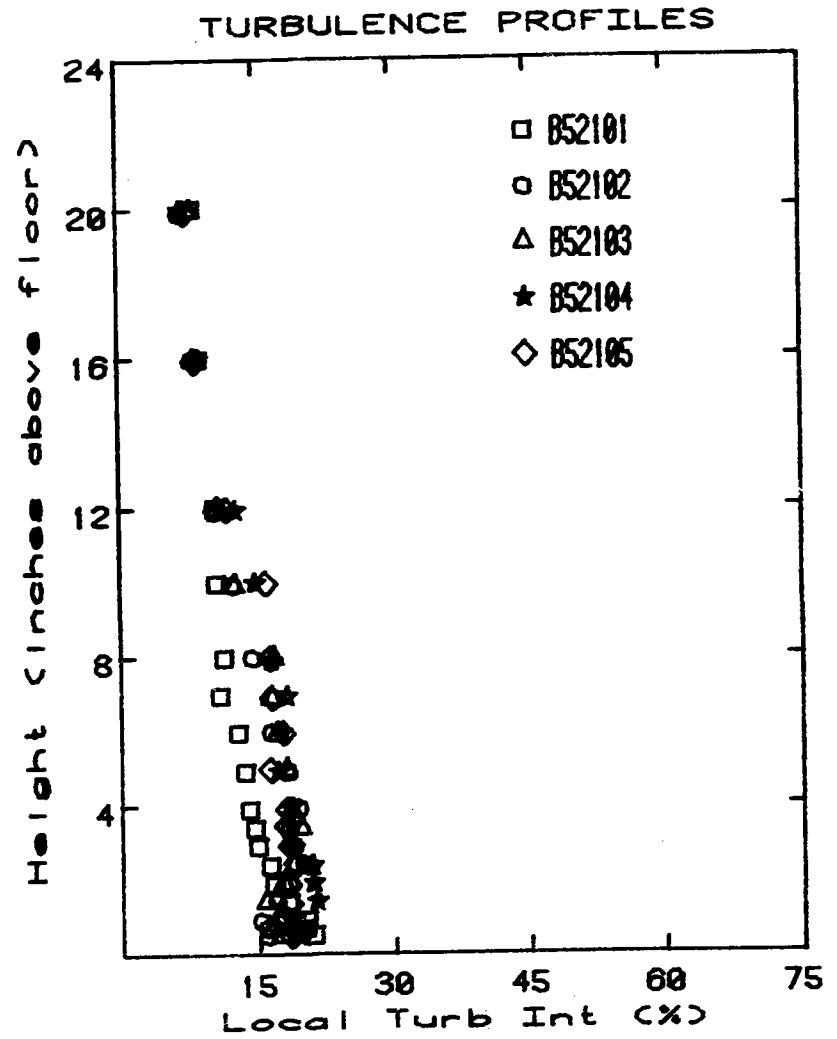
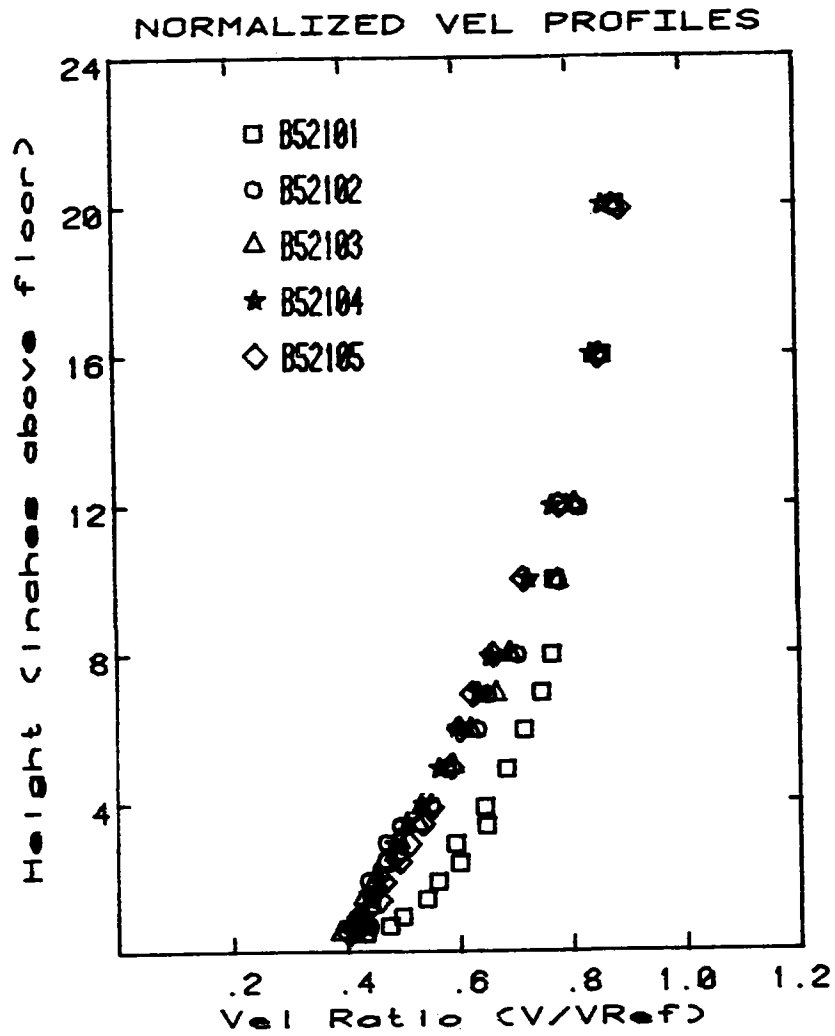
Graph # 24



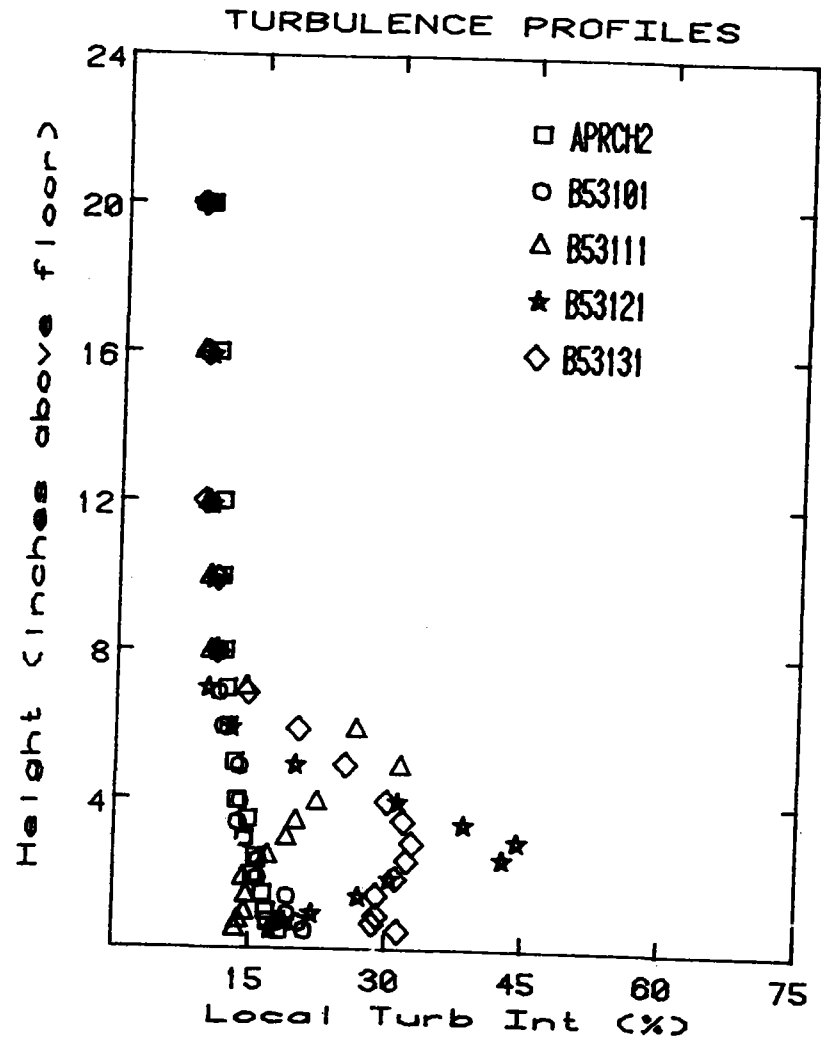
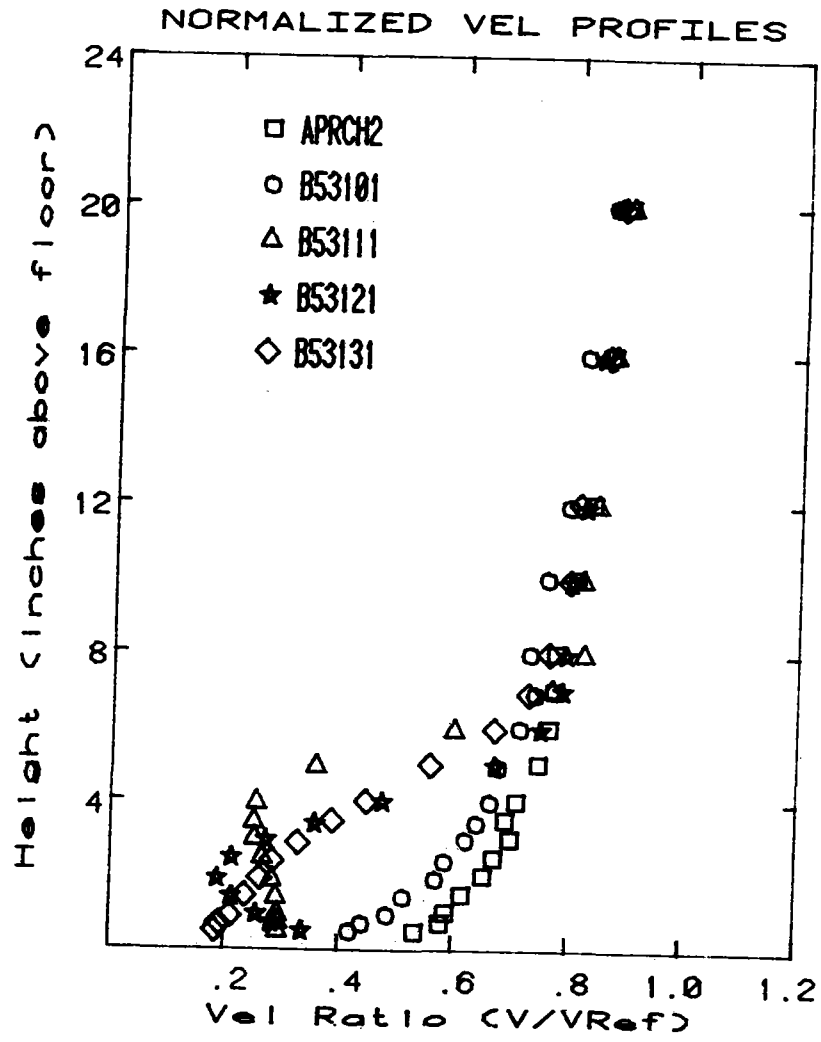
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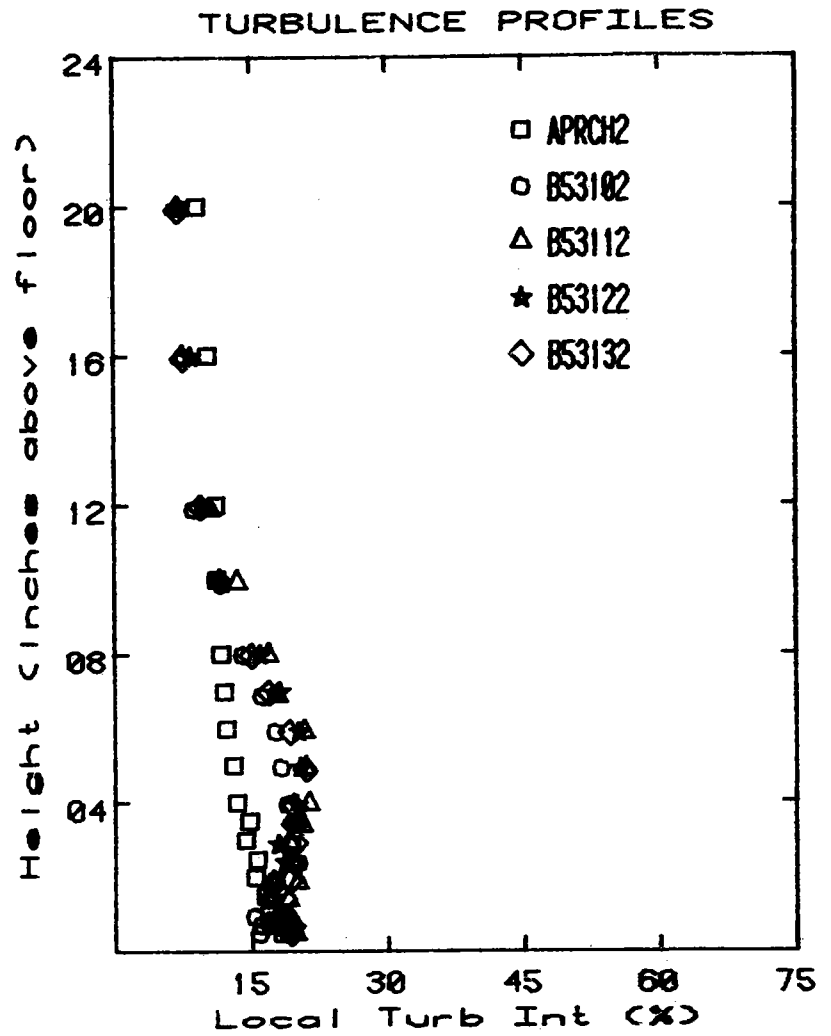
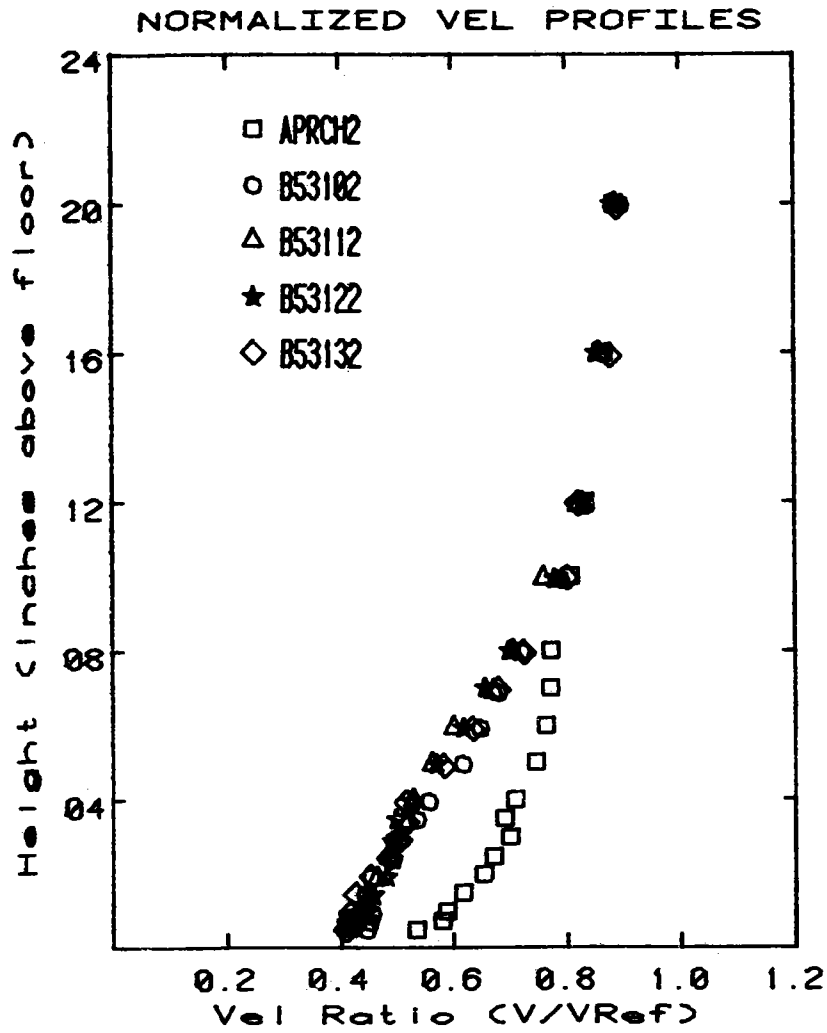
Graph # 26



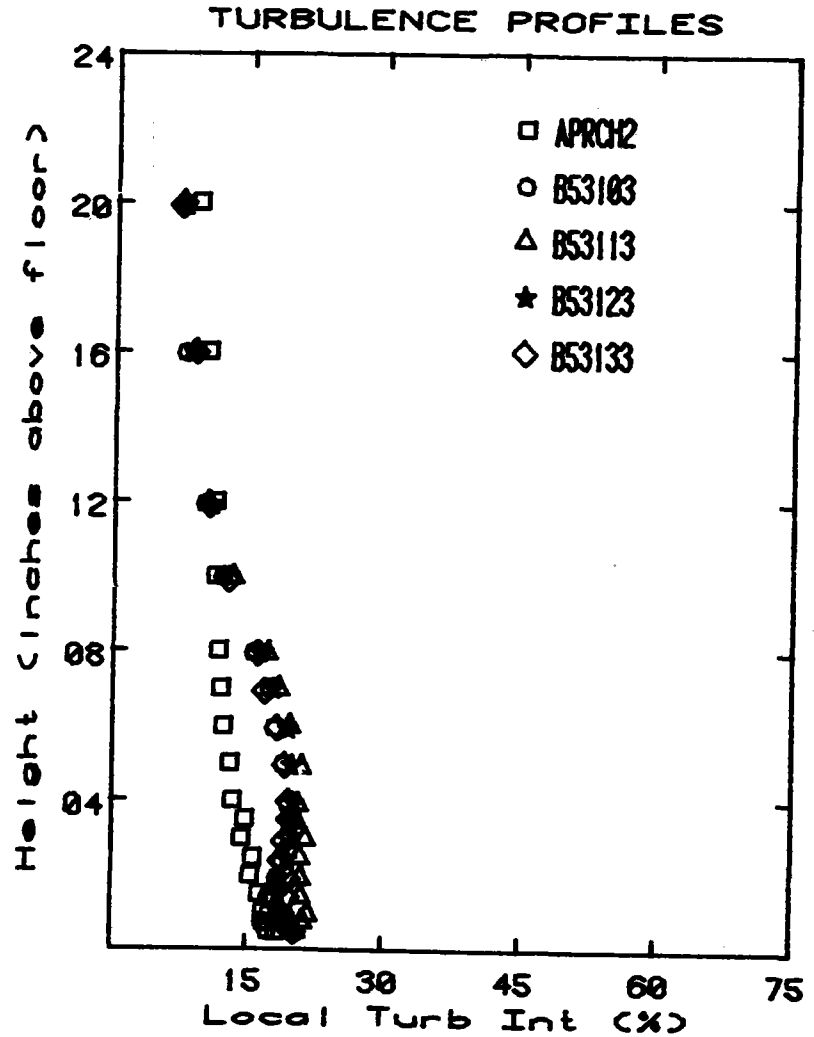
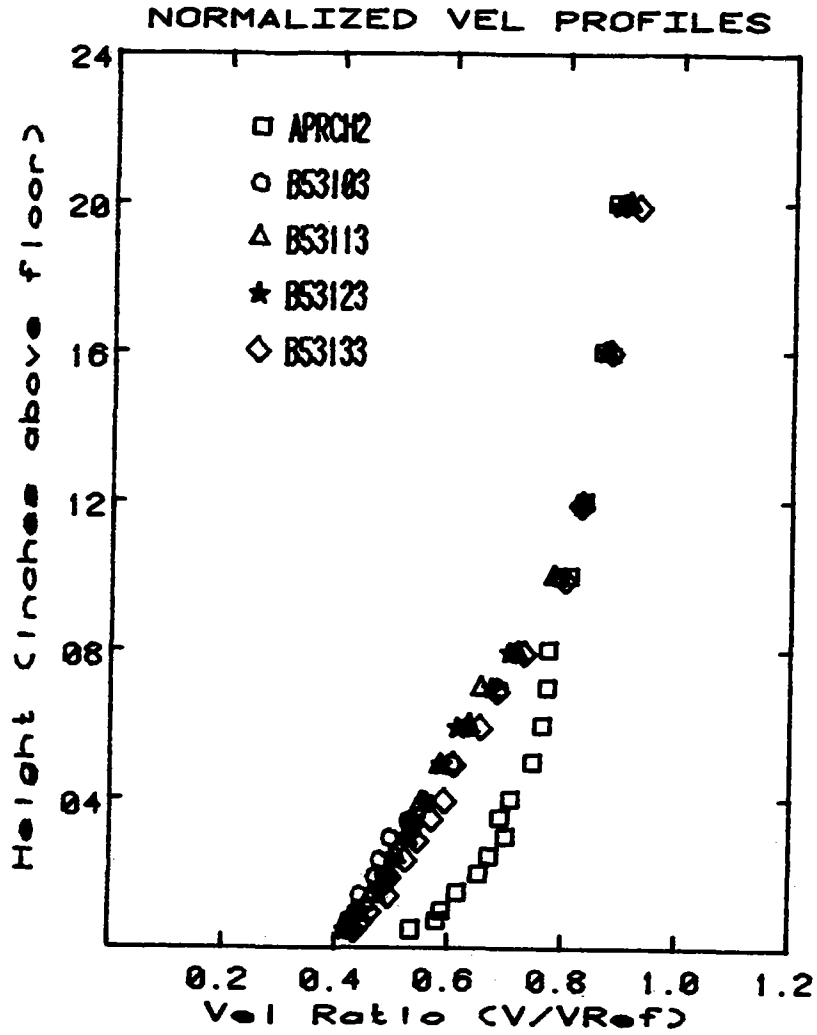
Graph # 27



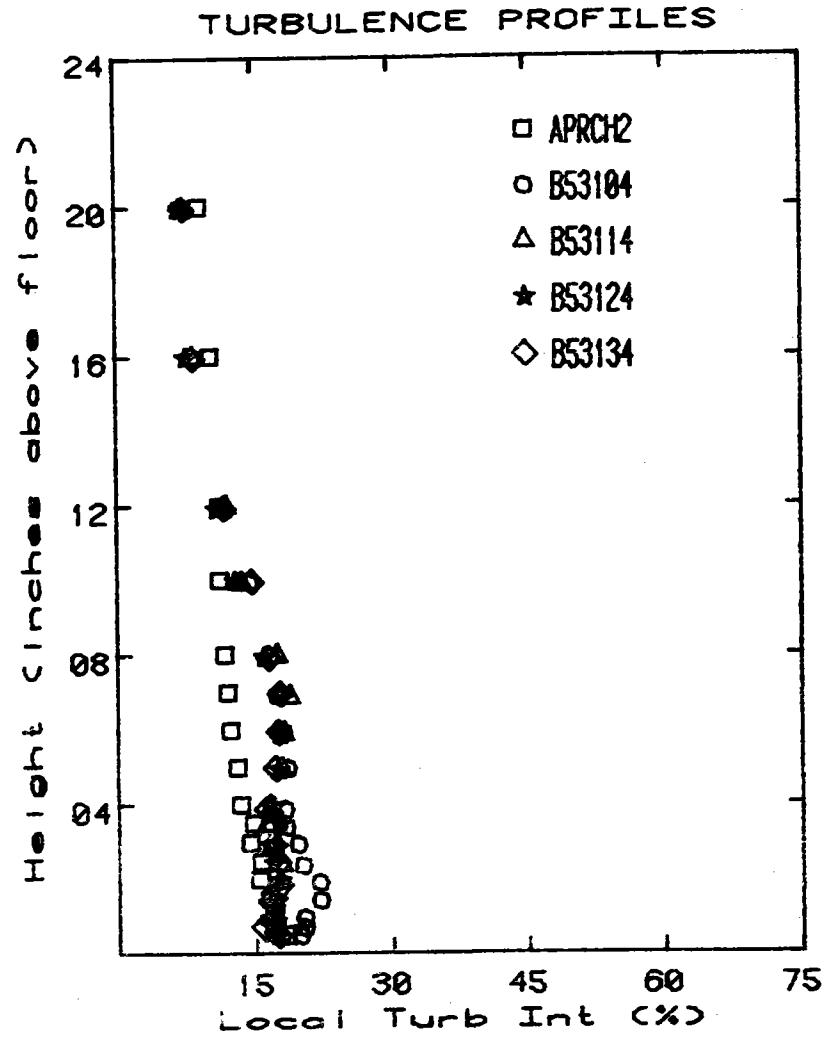
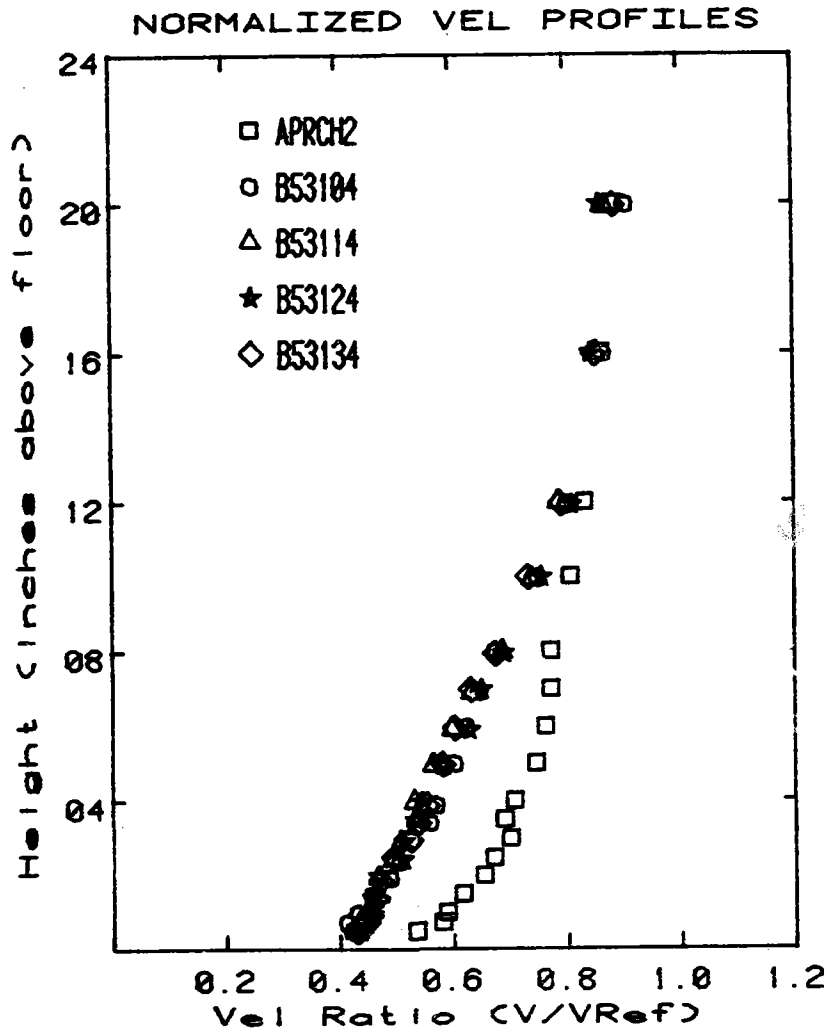
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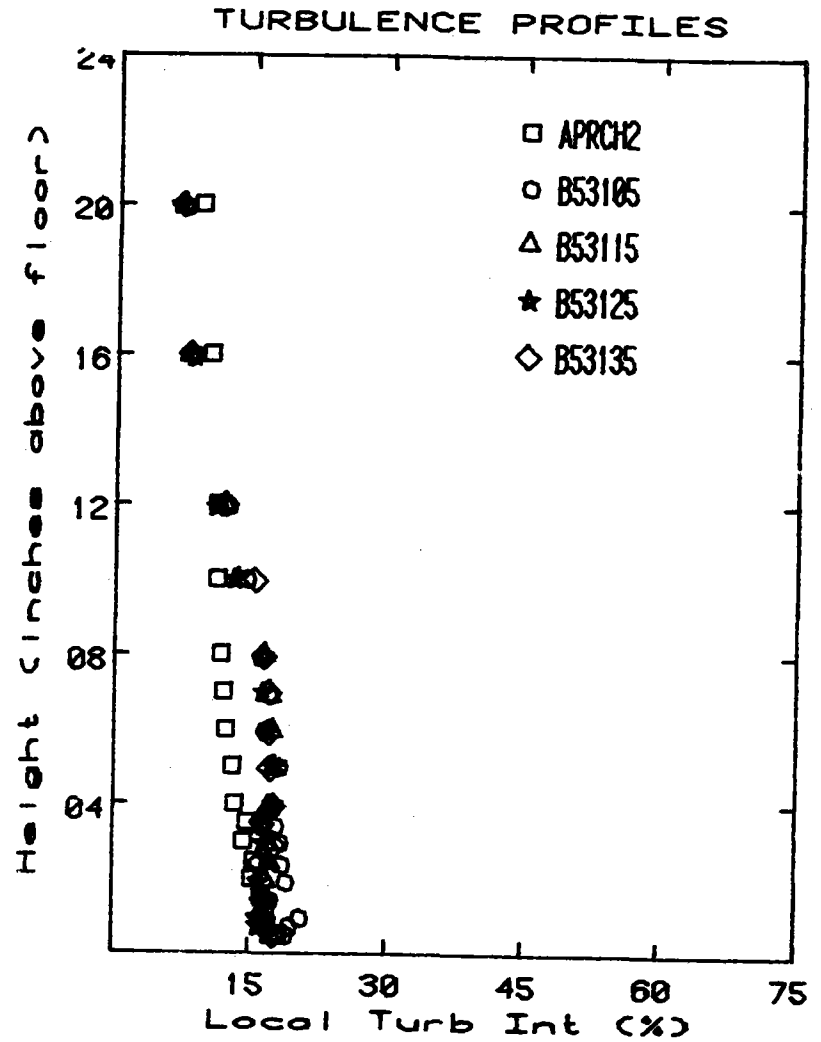
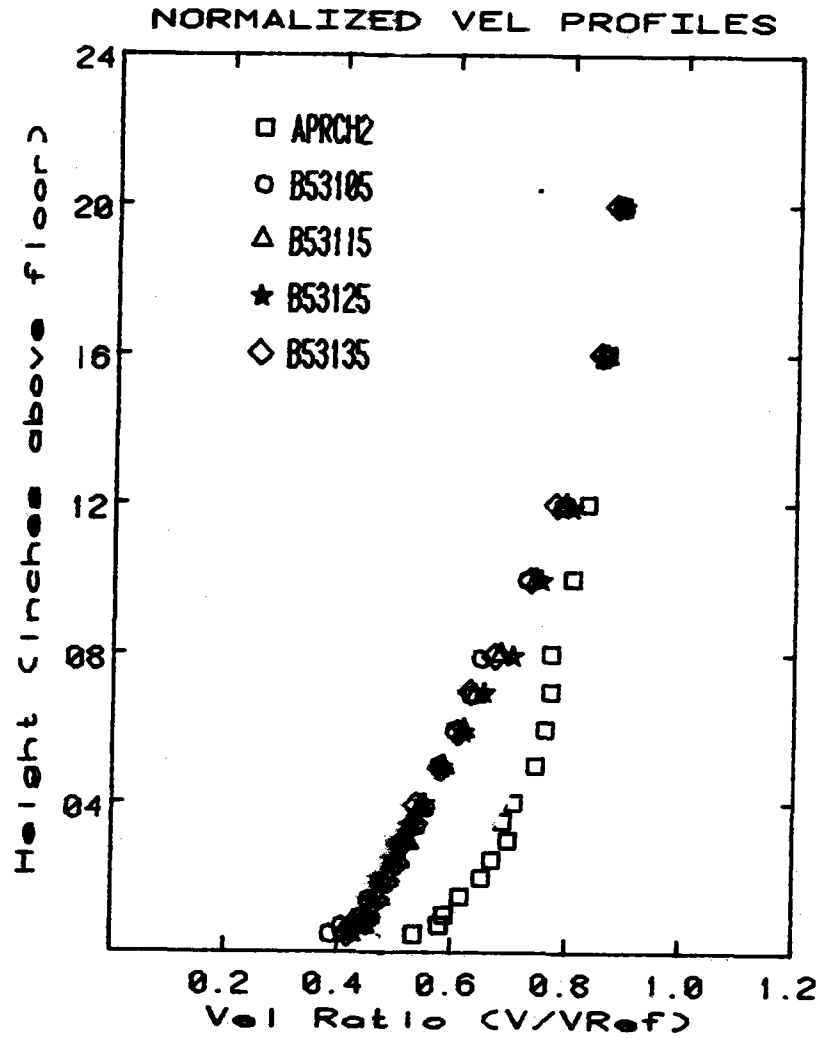
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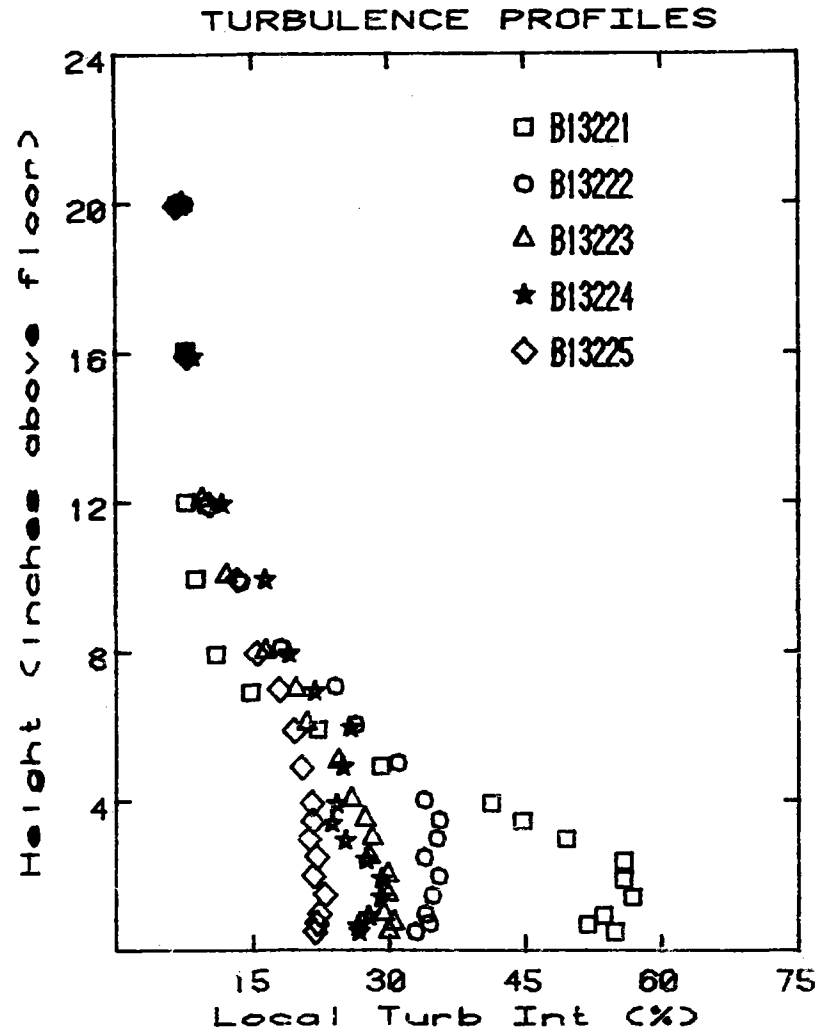
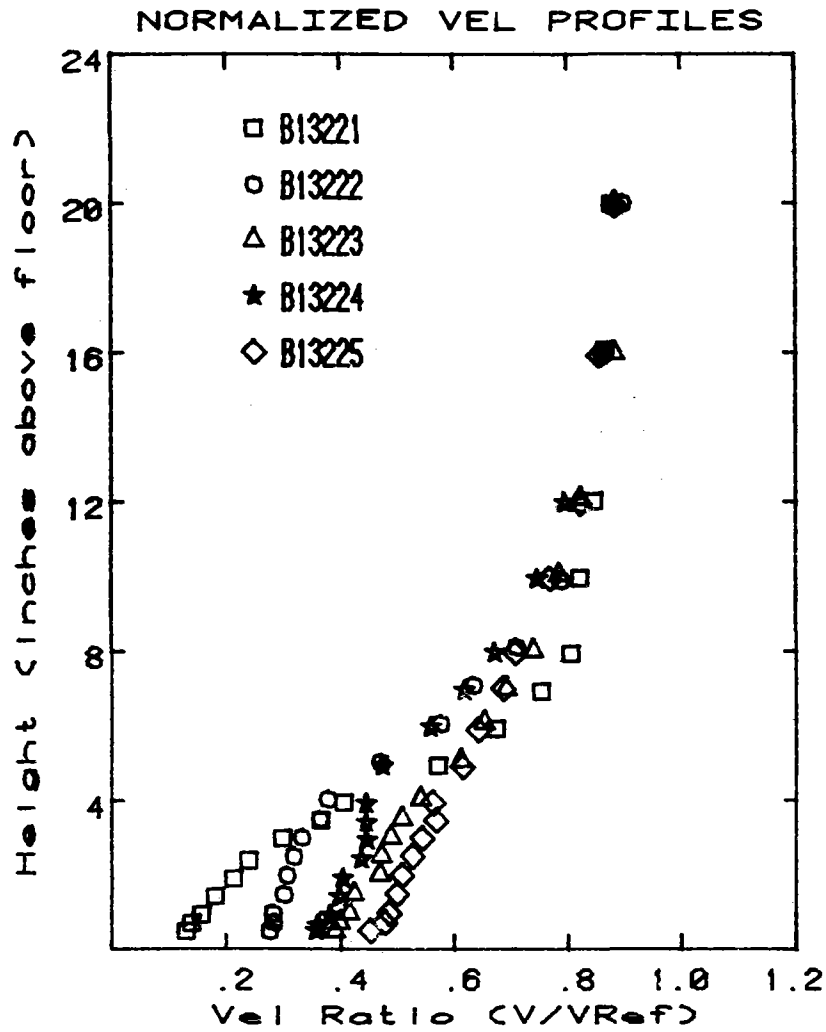
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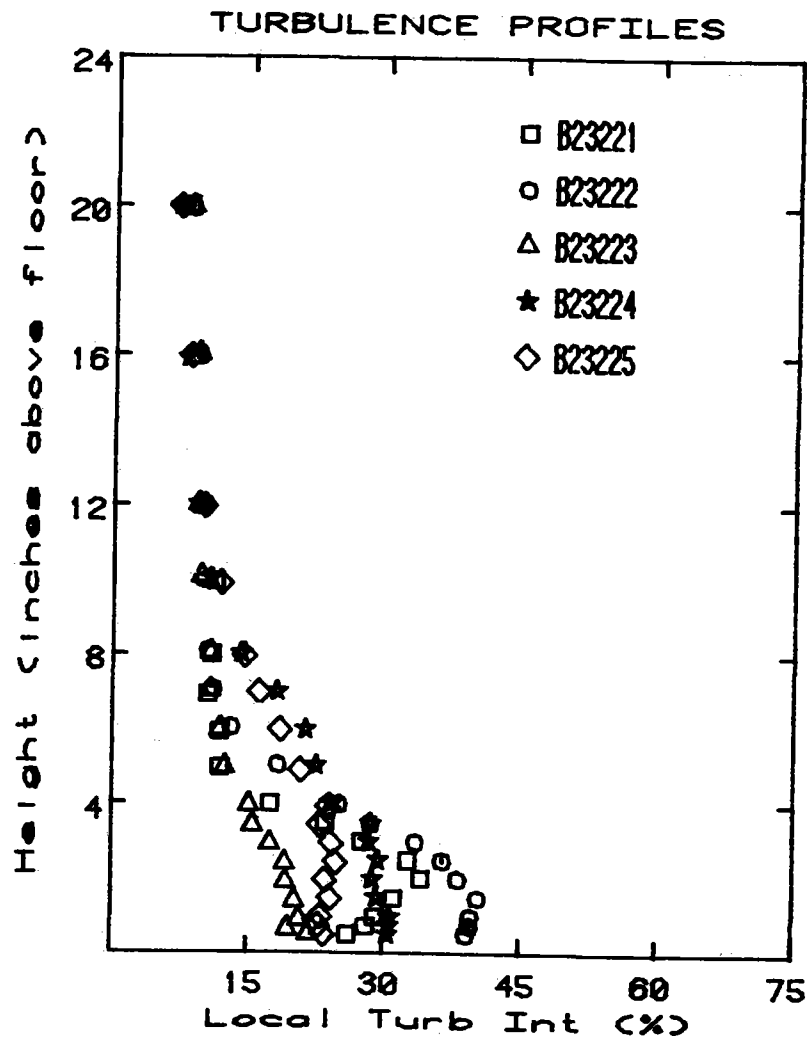
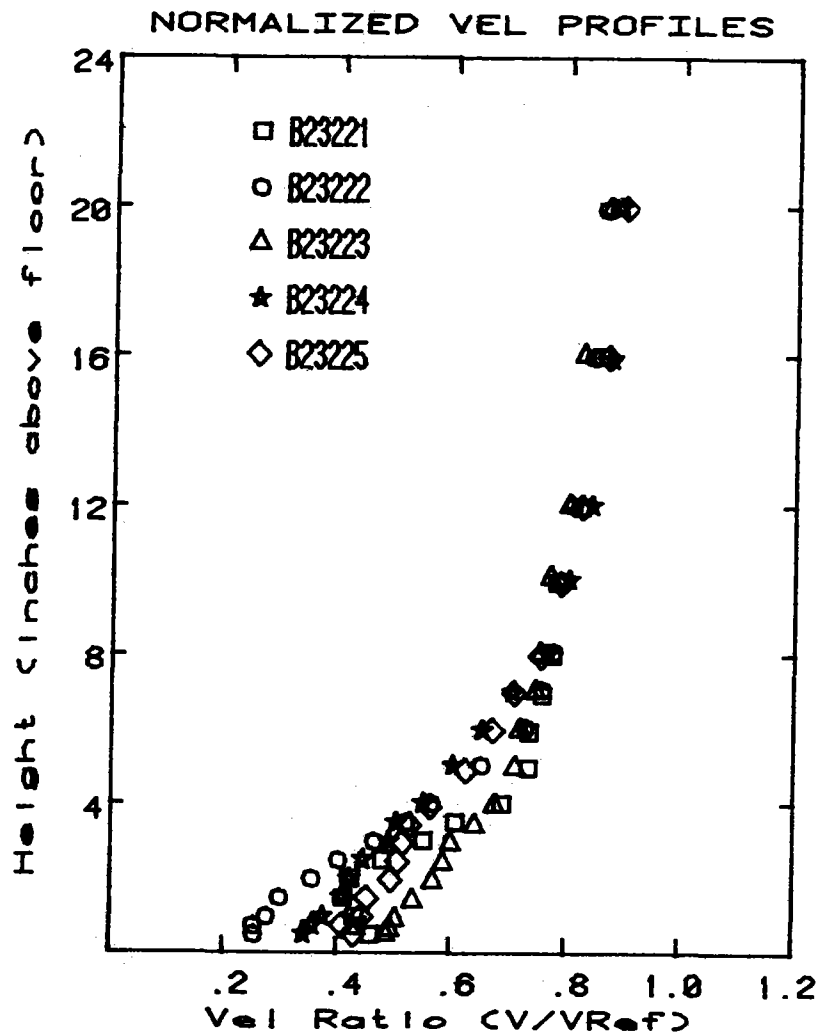
Graph # 31



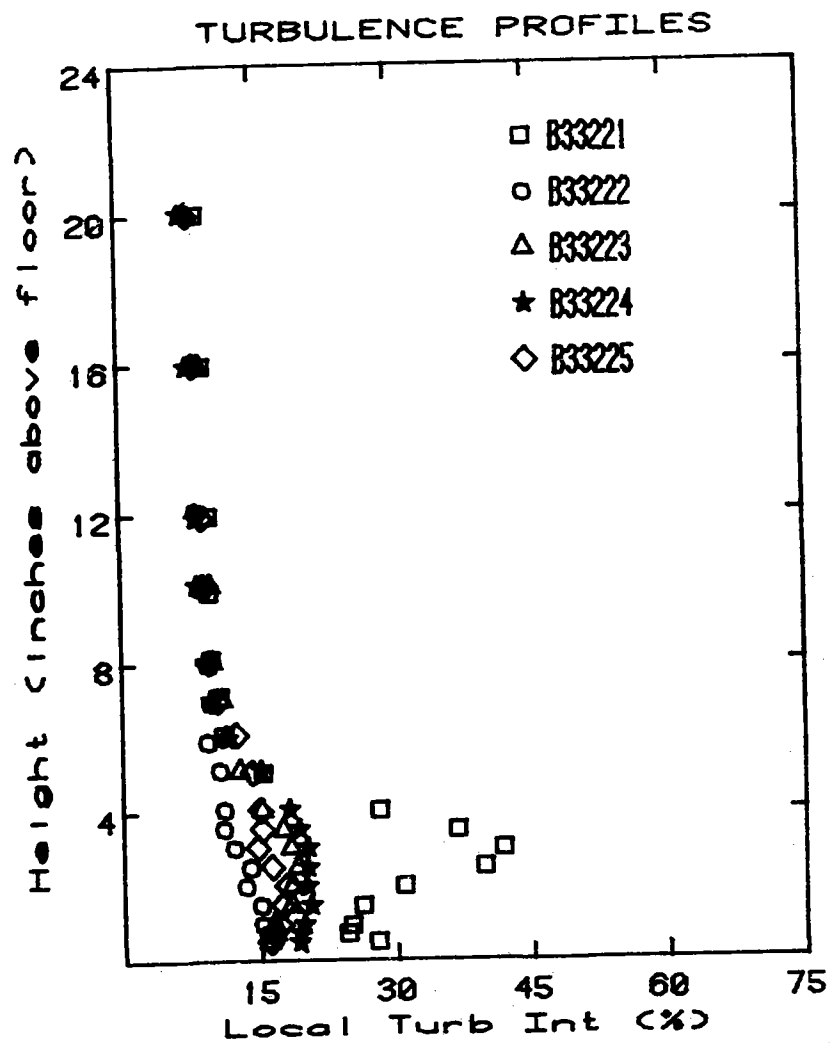
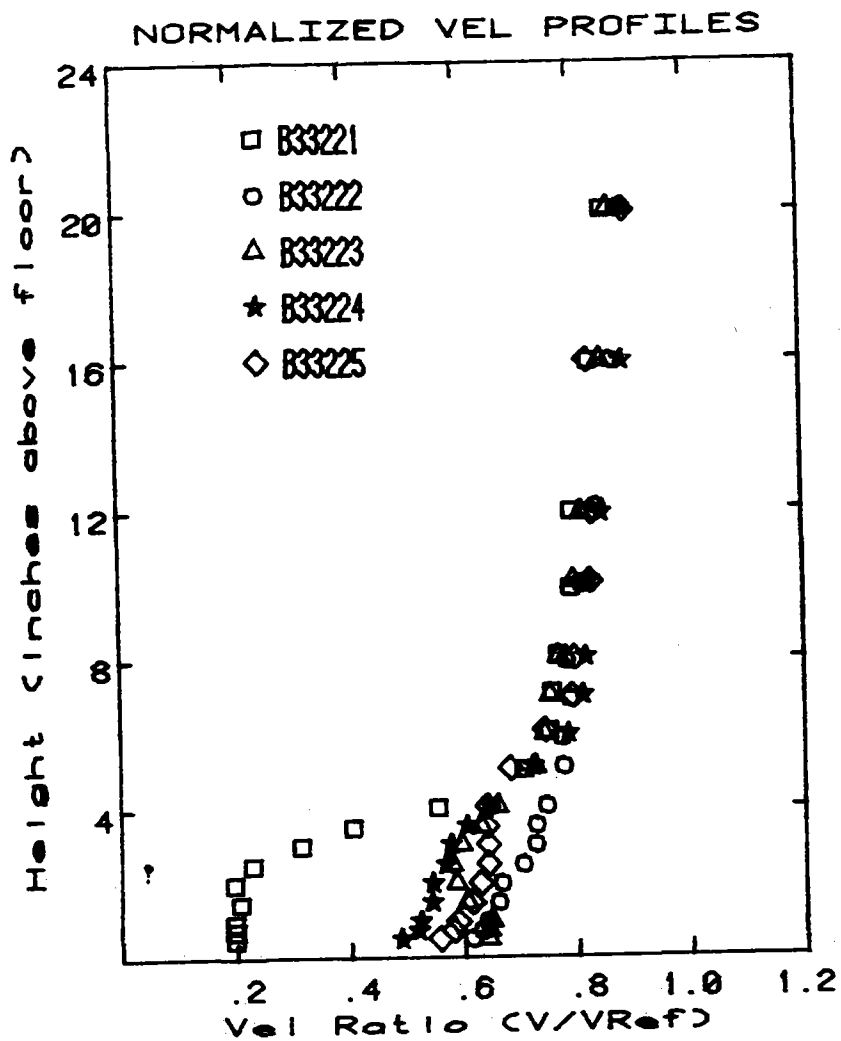
Graph # 32



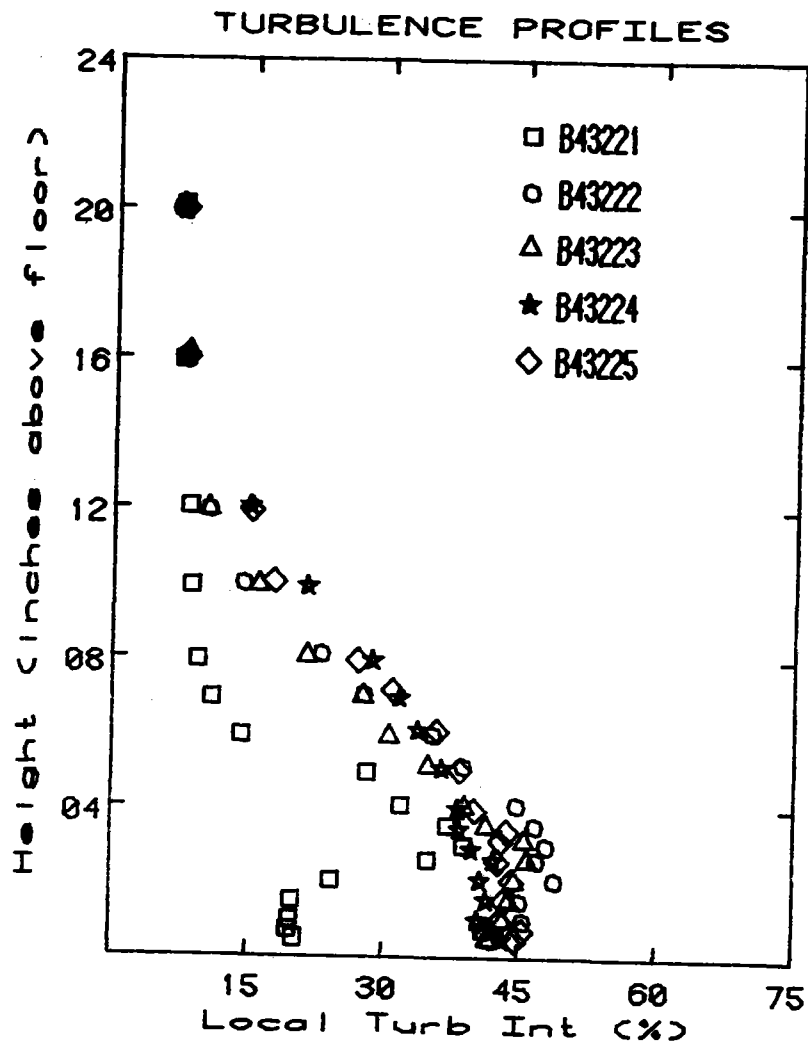
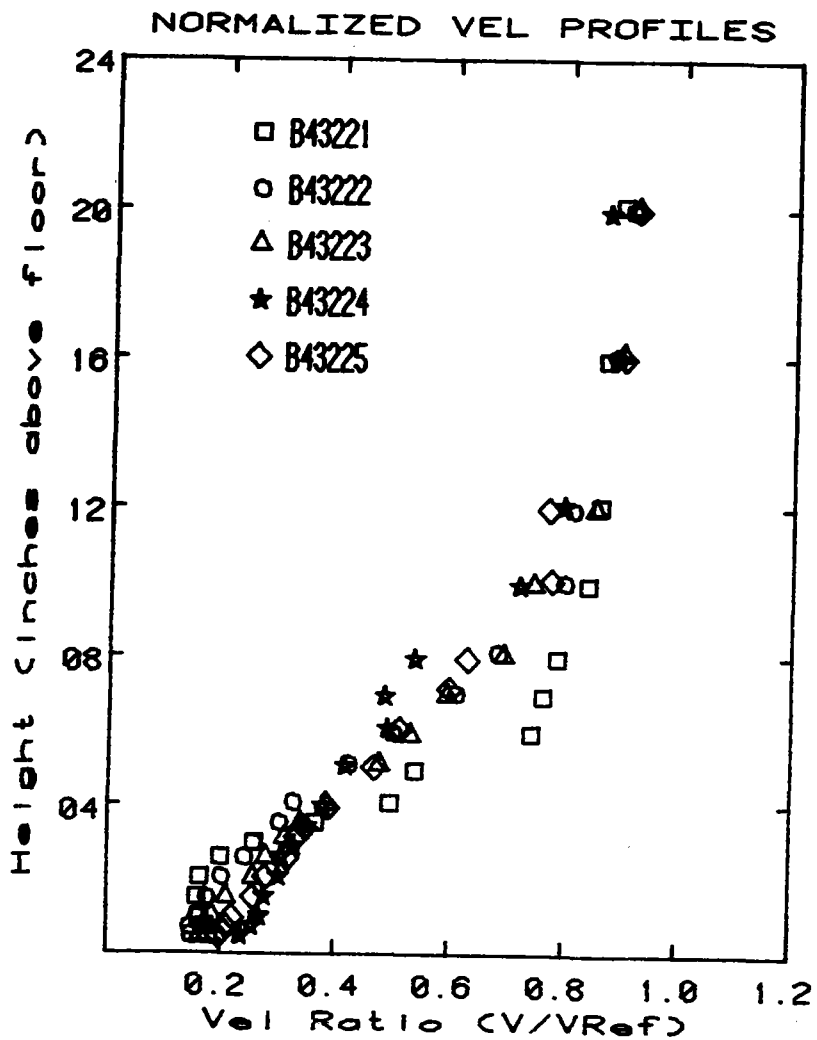
Graph # 33



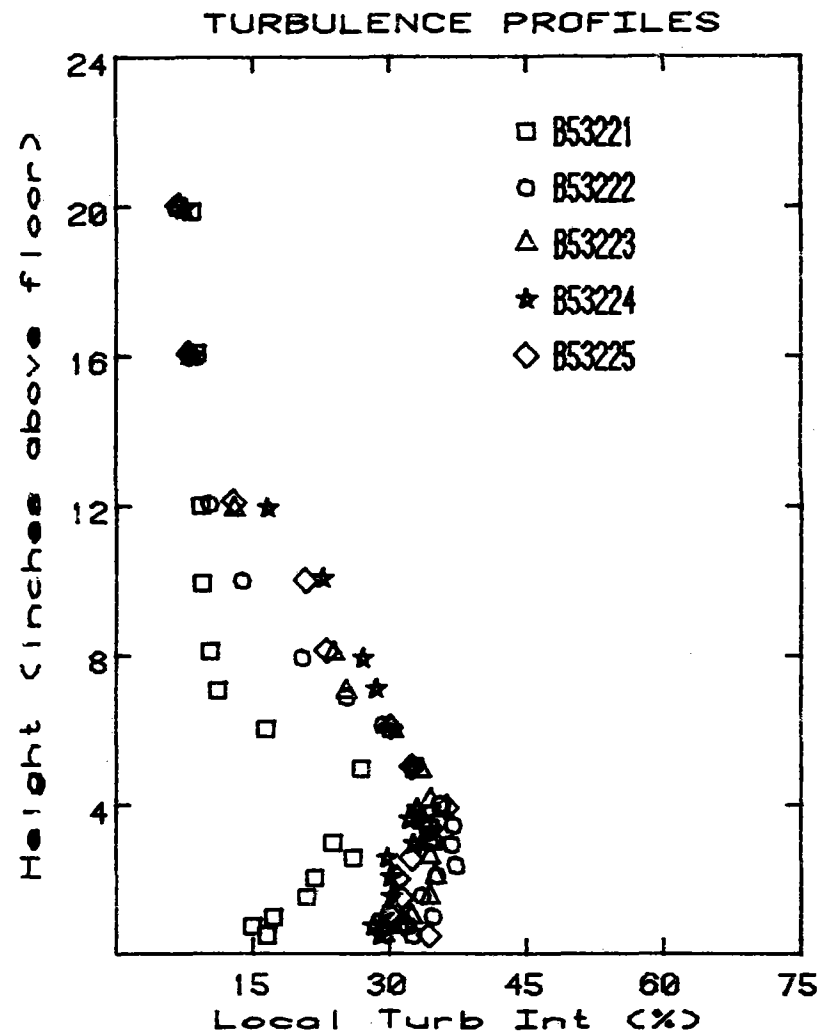
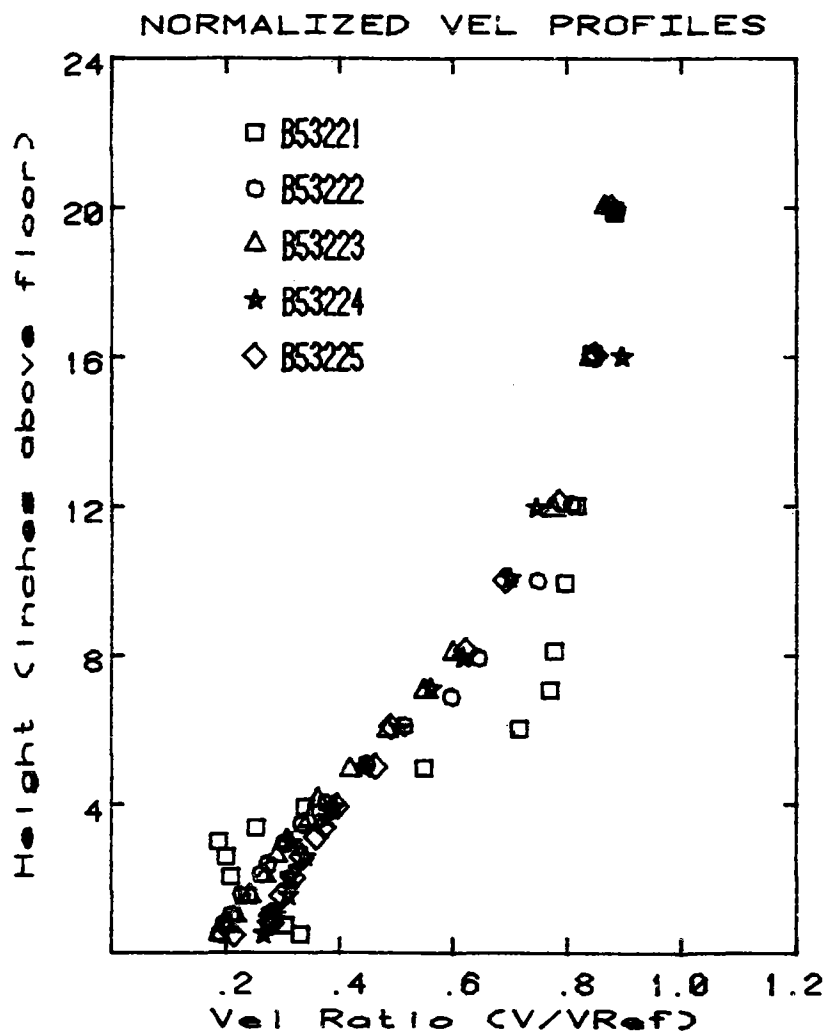
Graph # 34



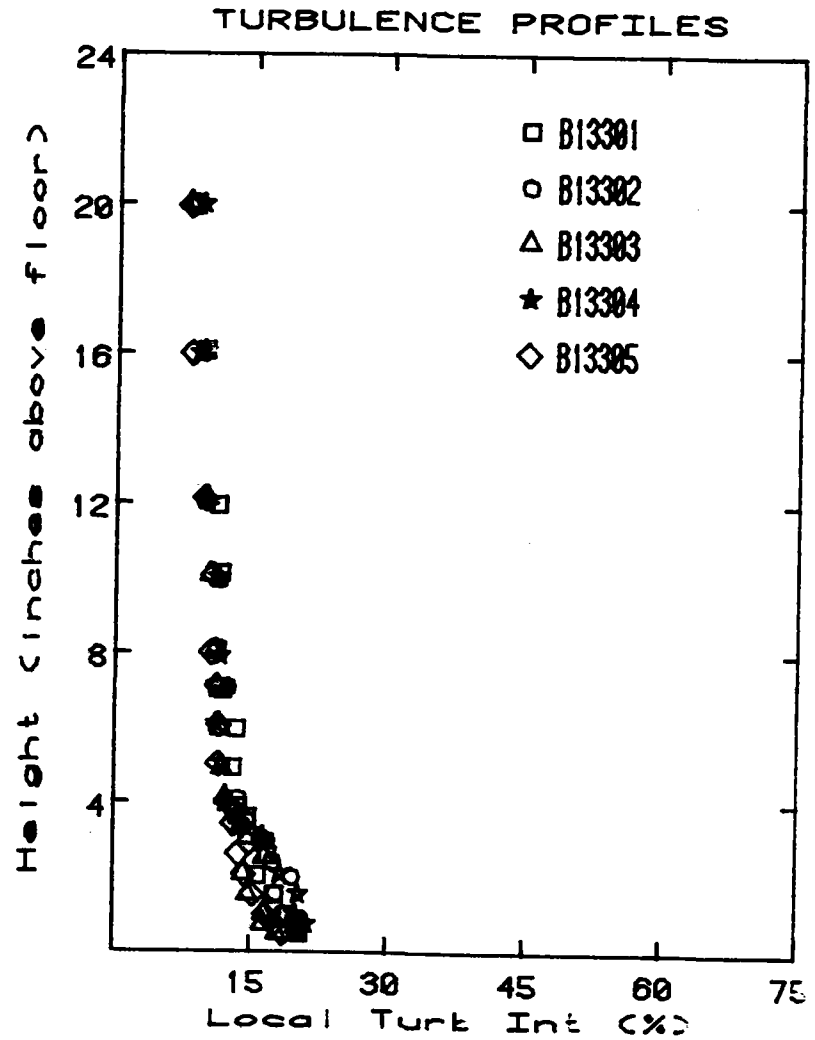
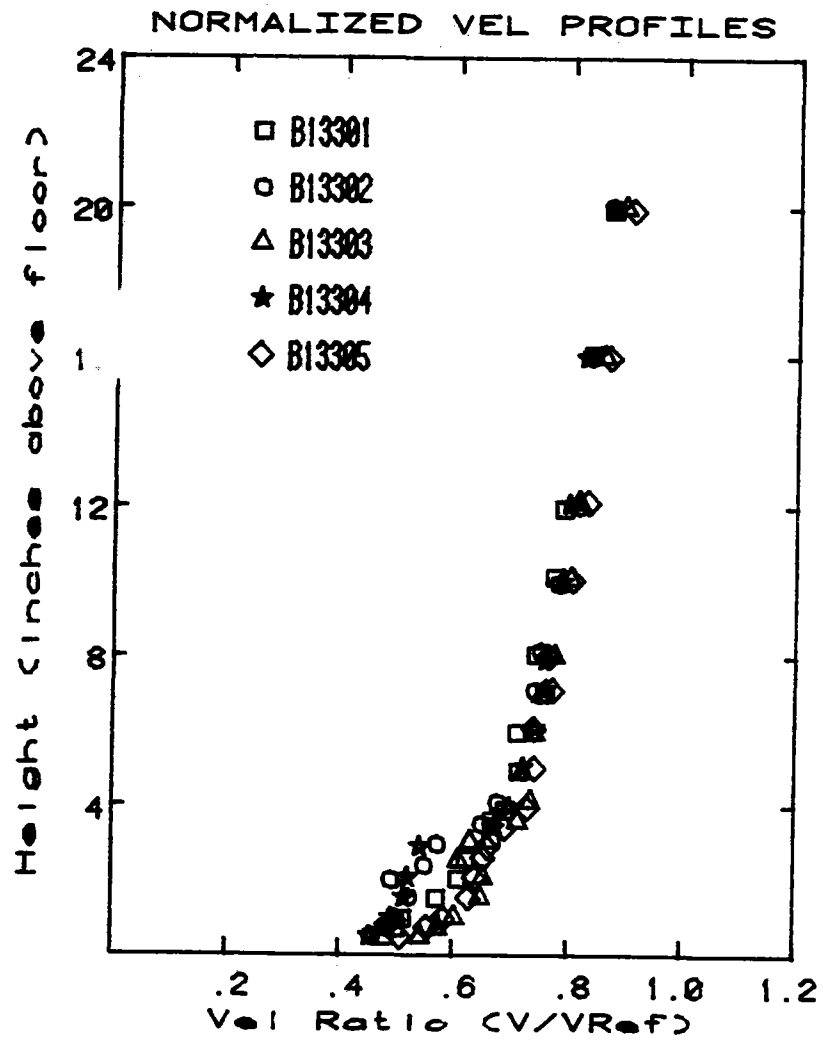
Graph # 35



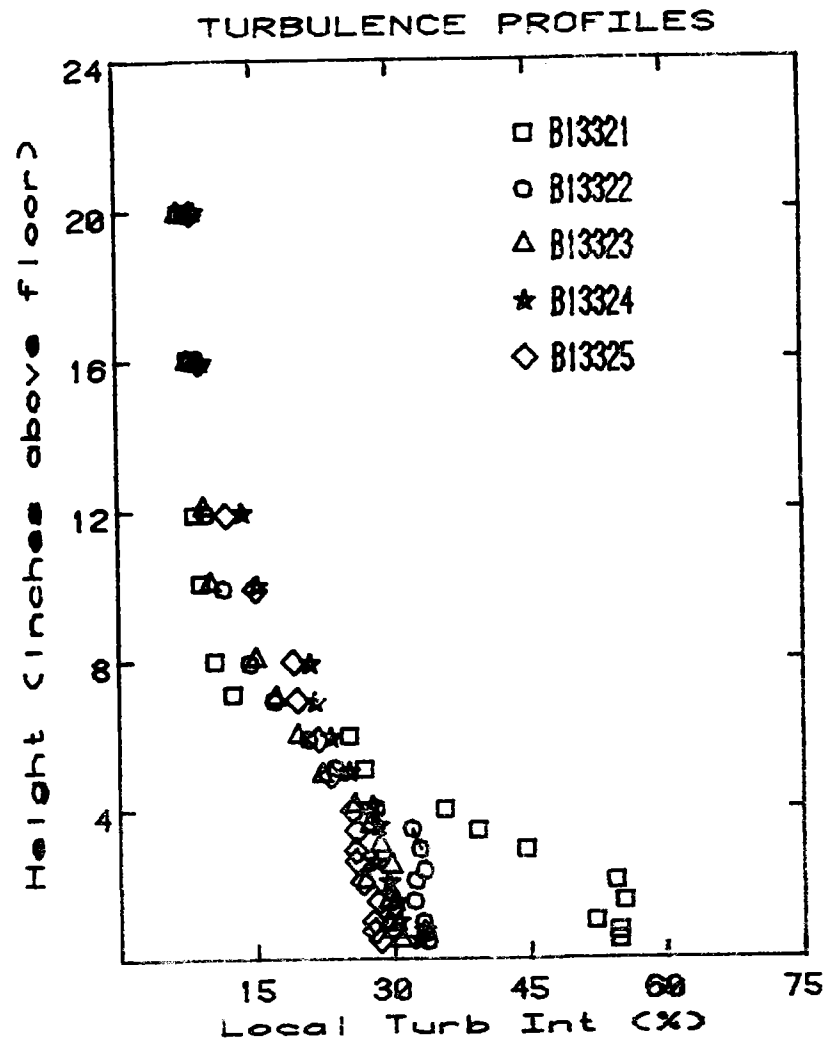
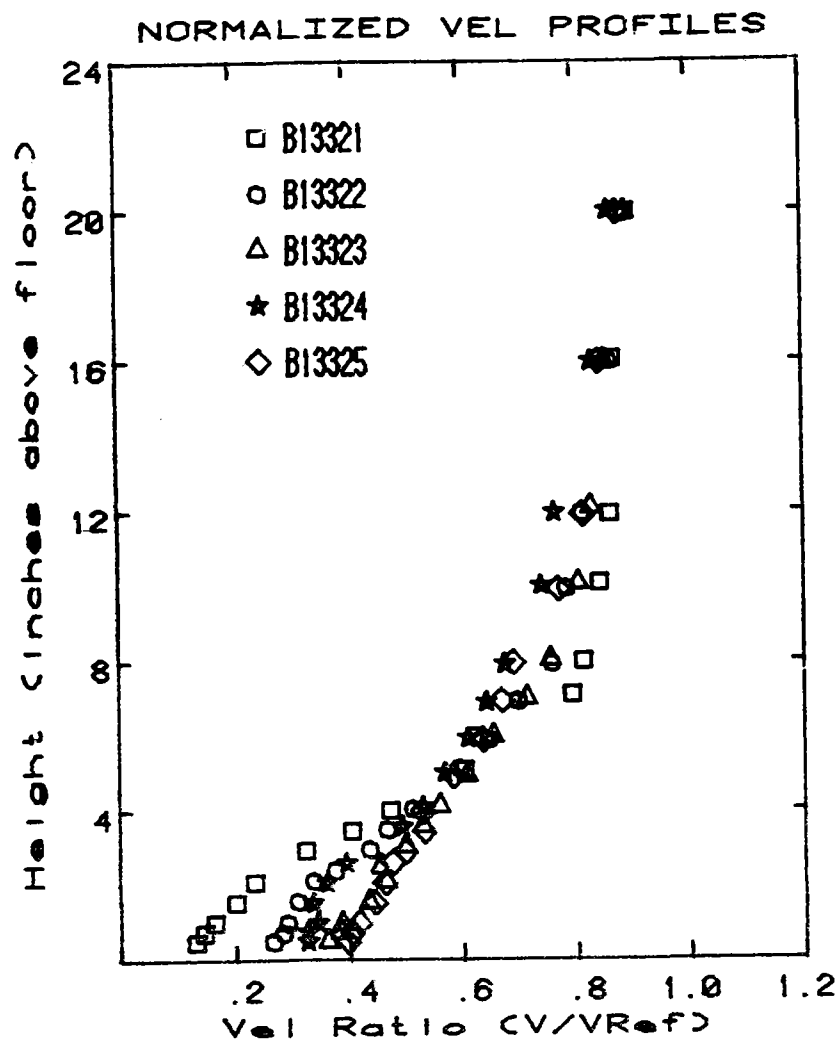
Graph # 36



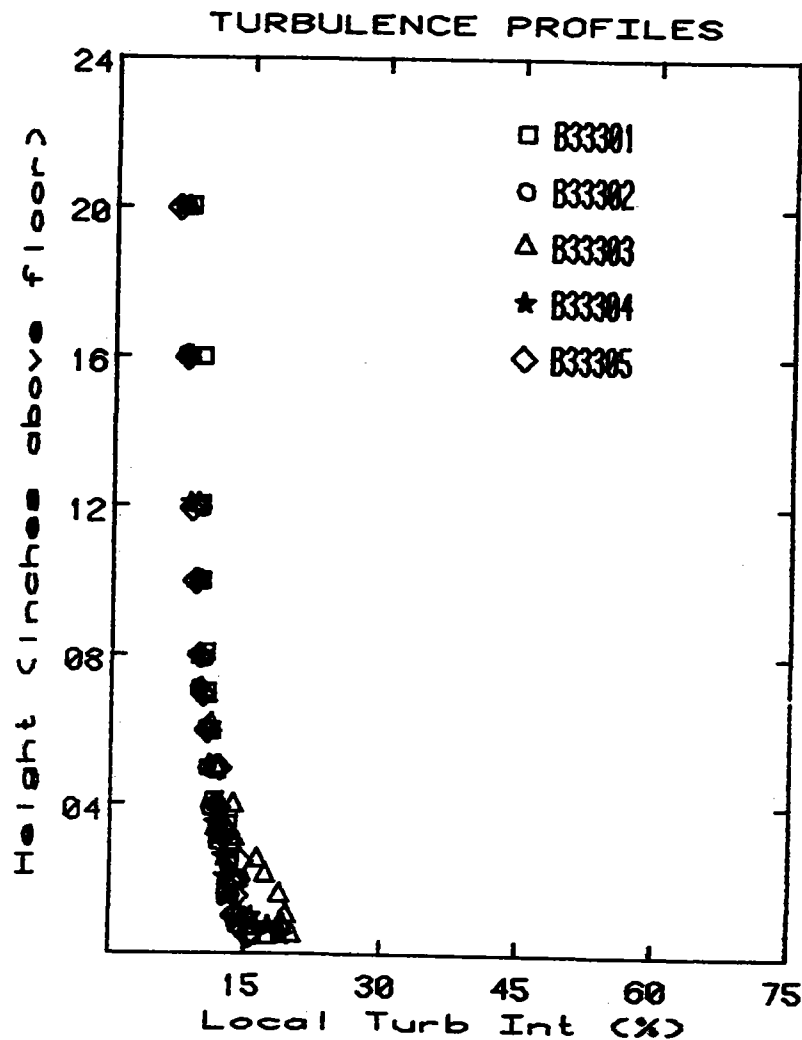
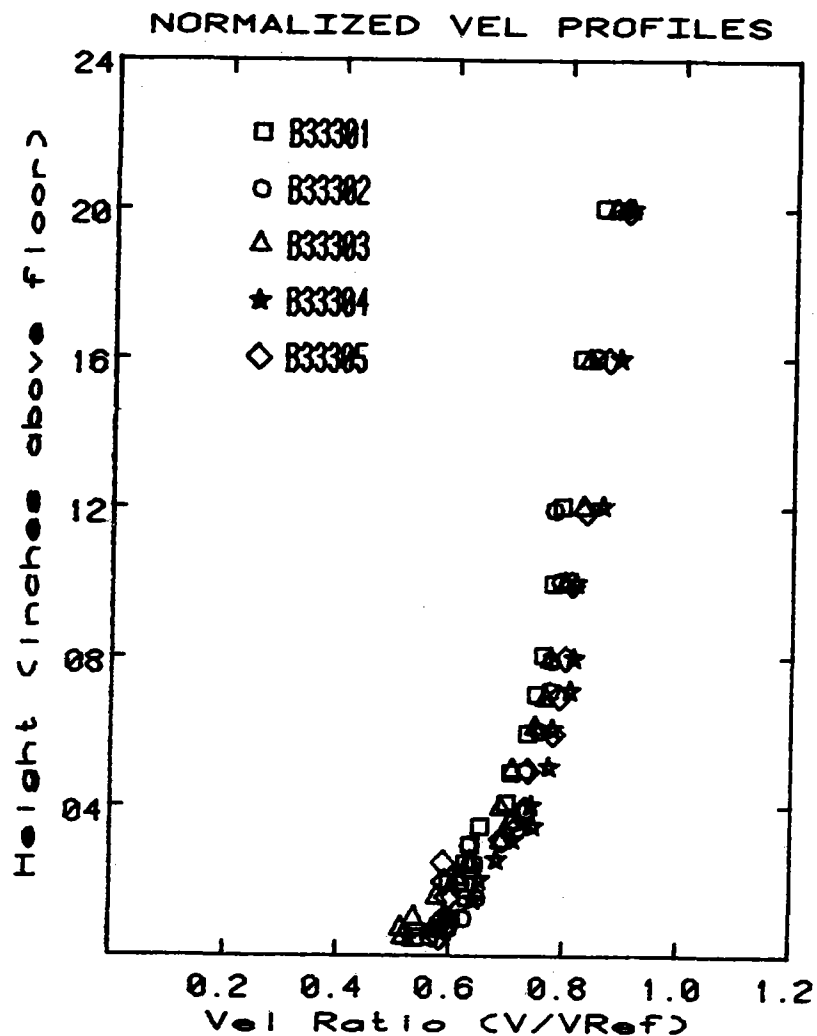
Graph # 37



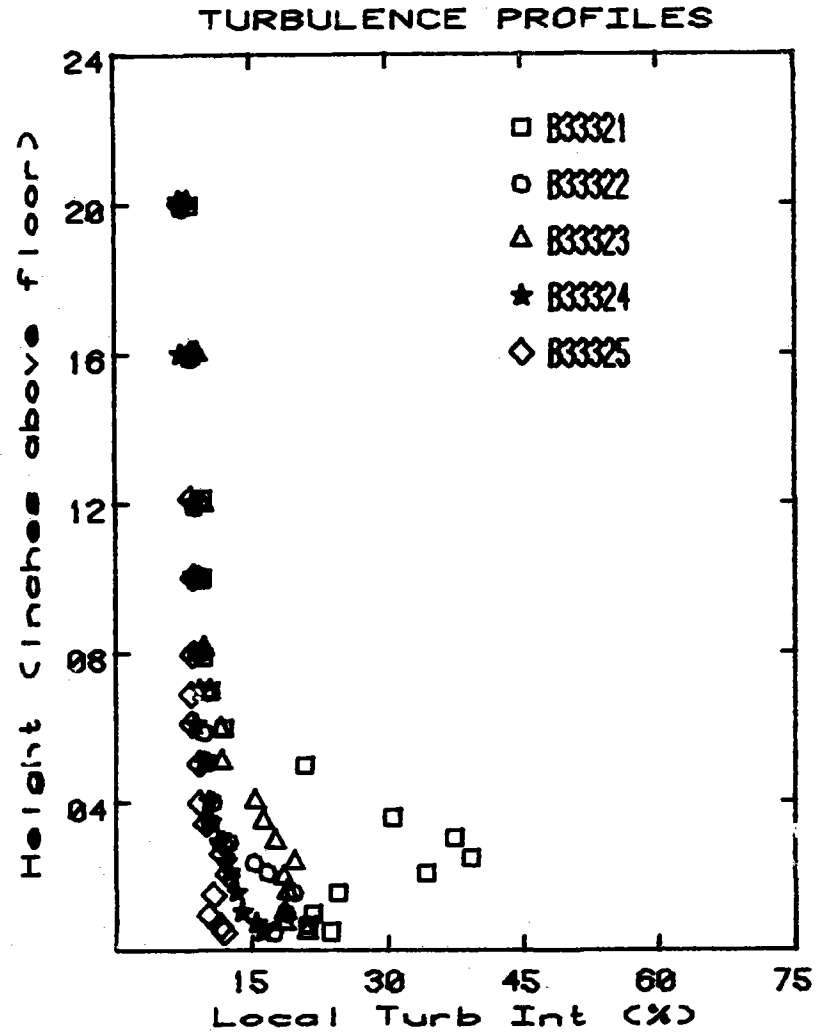
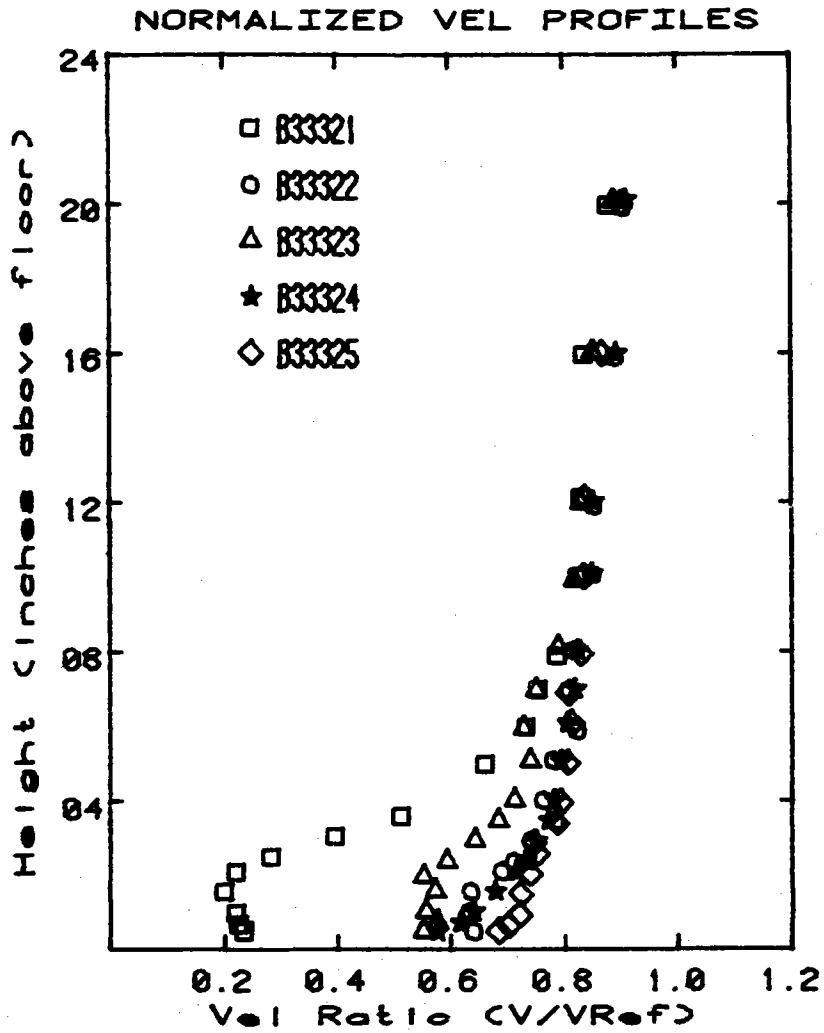
Graph # 38



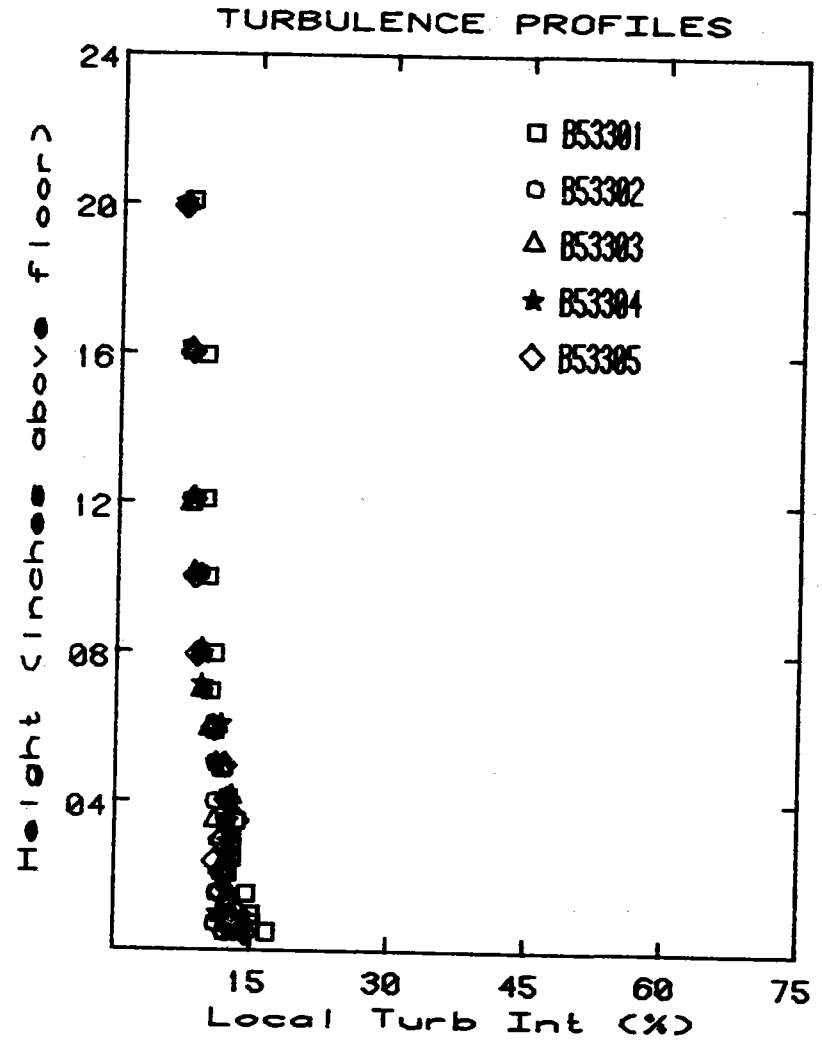
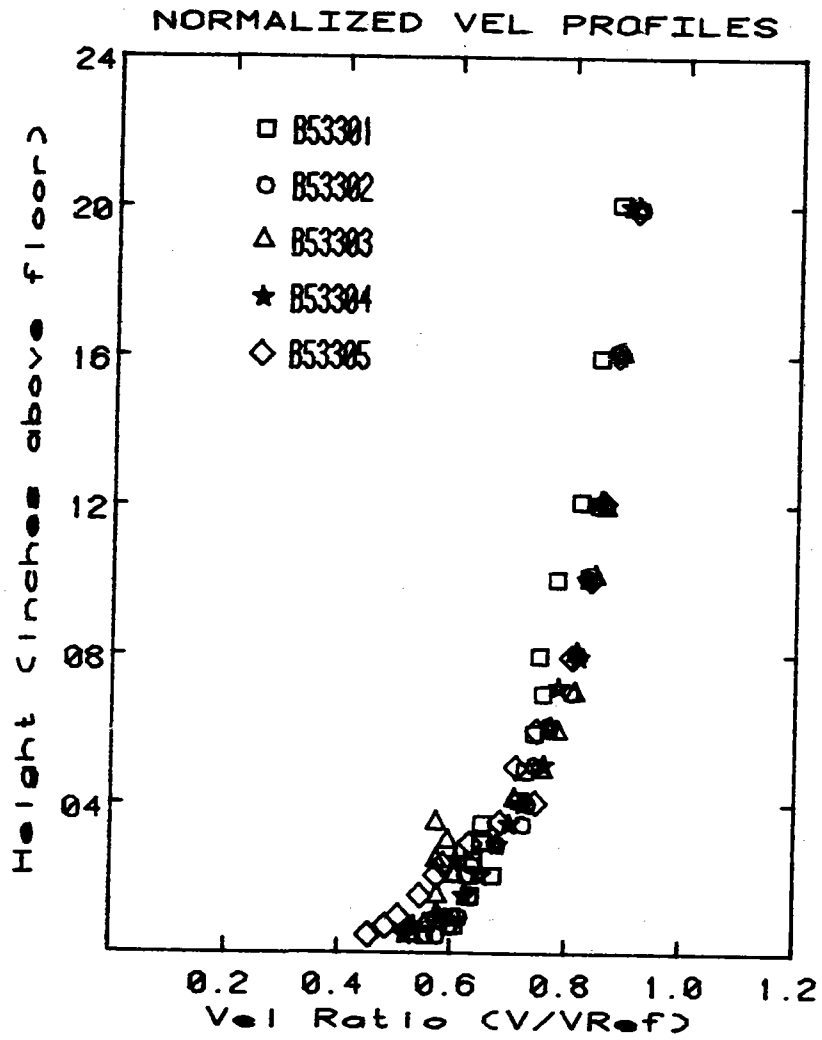
Graph # 39



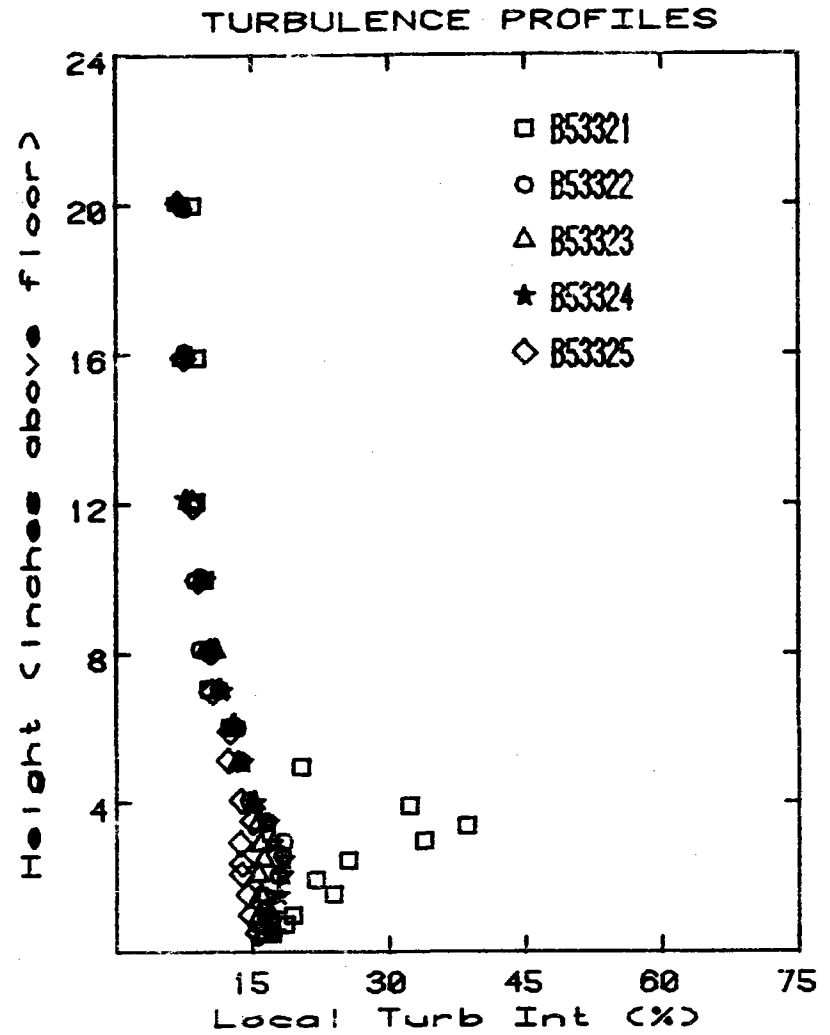
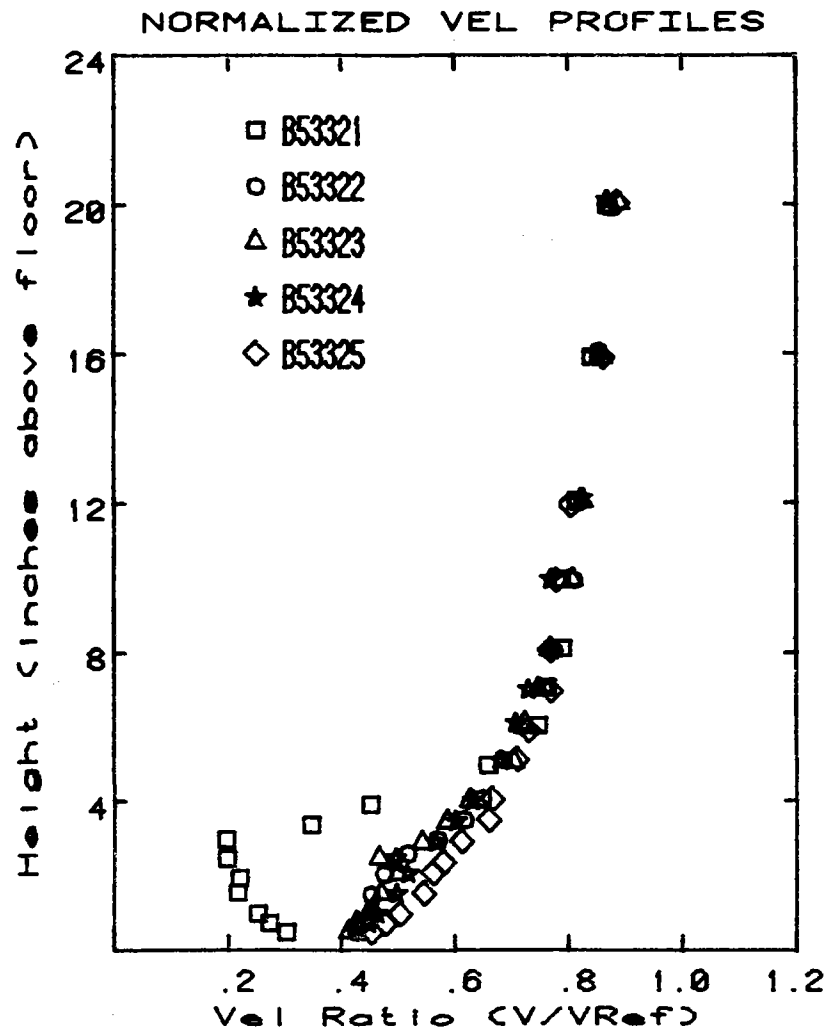
Graph # 40



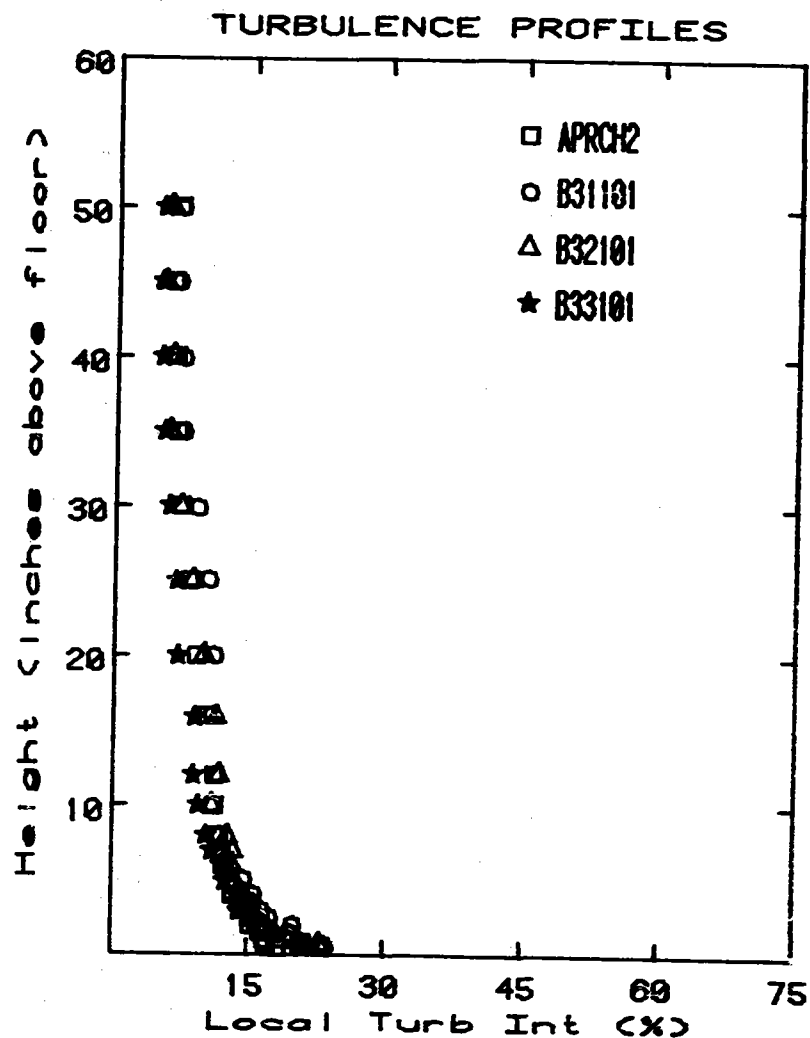
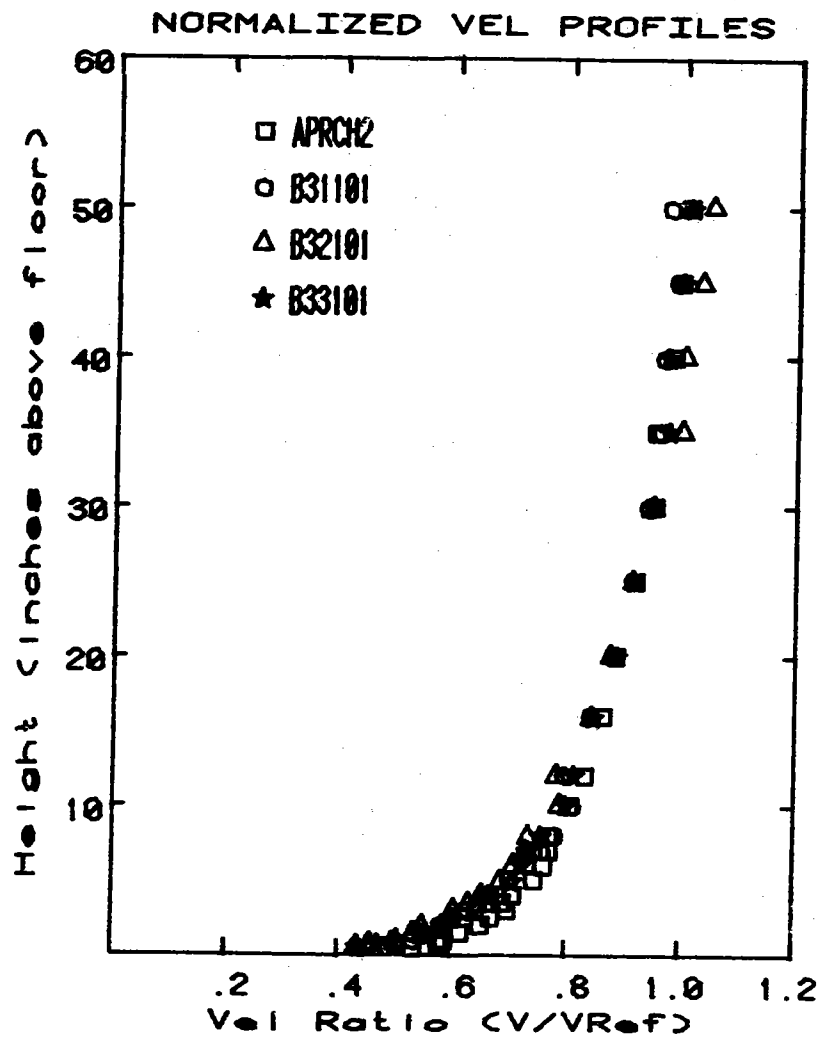
Graph # 41



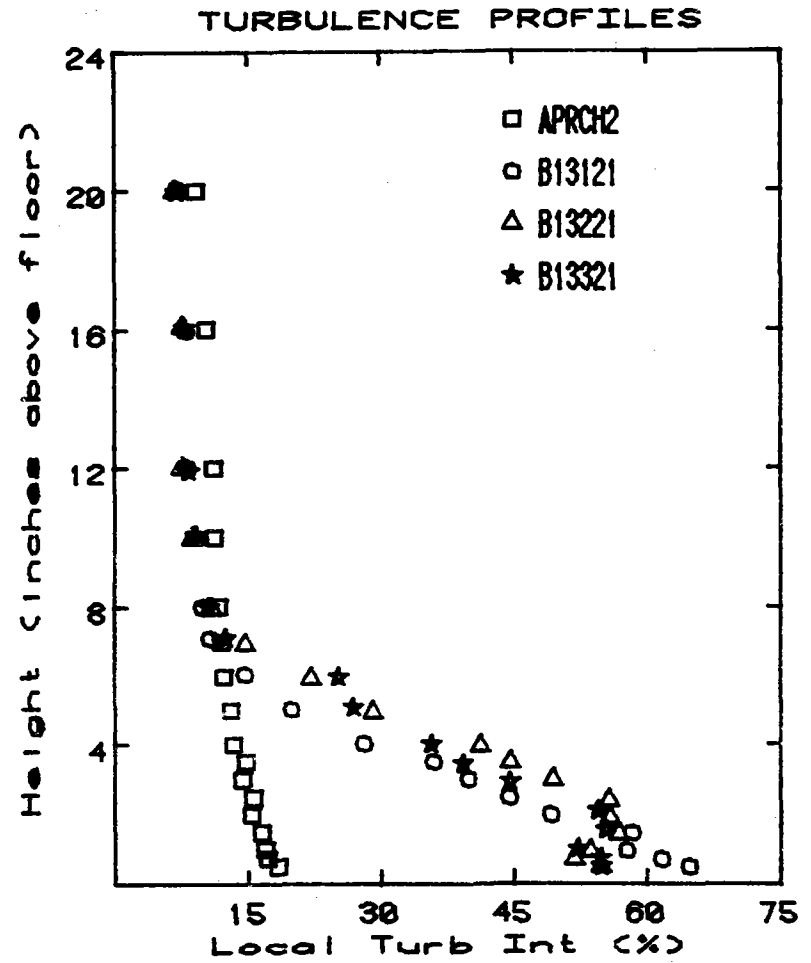
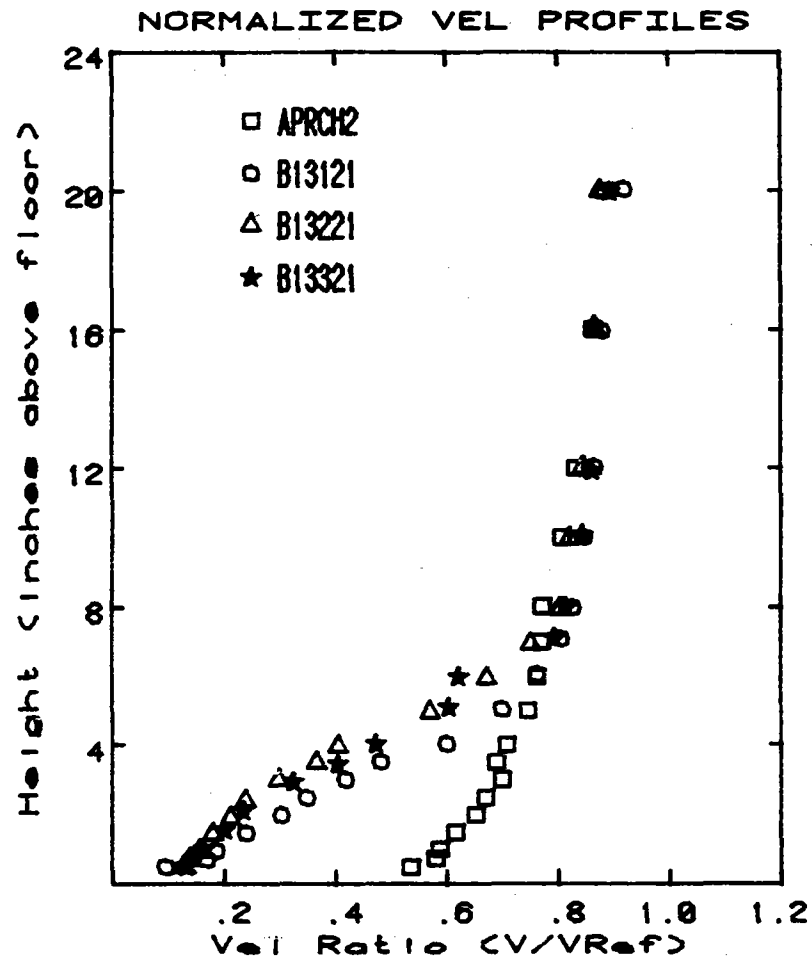
Graph # 42



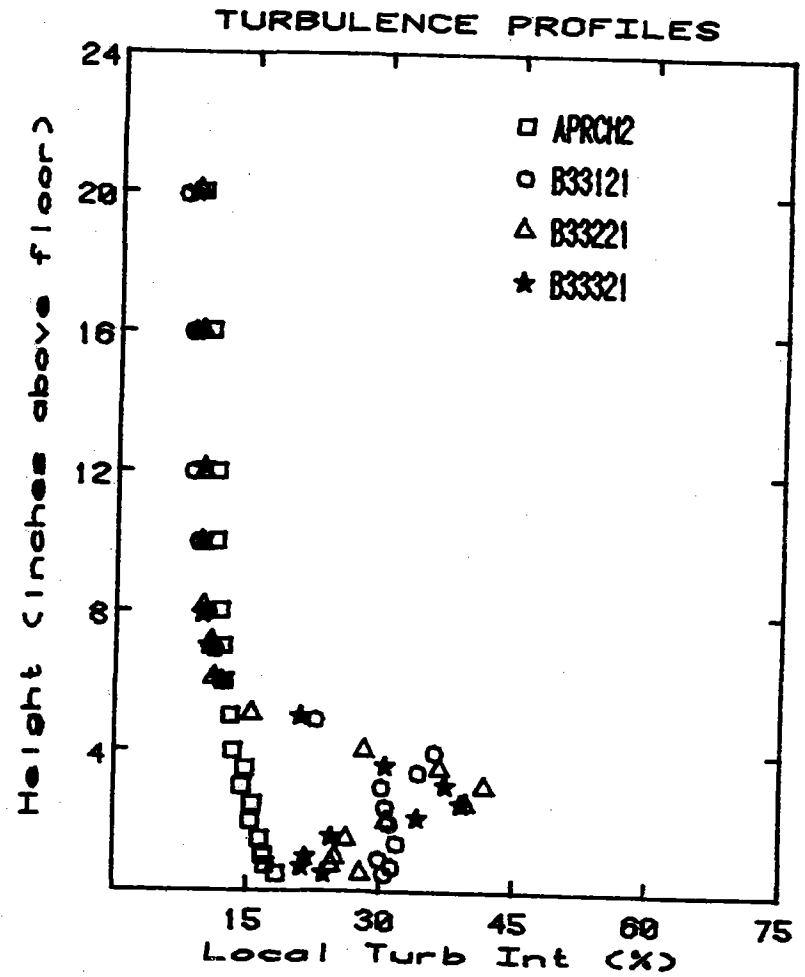
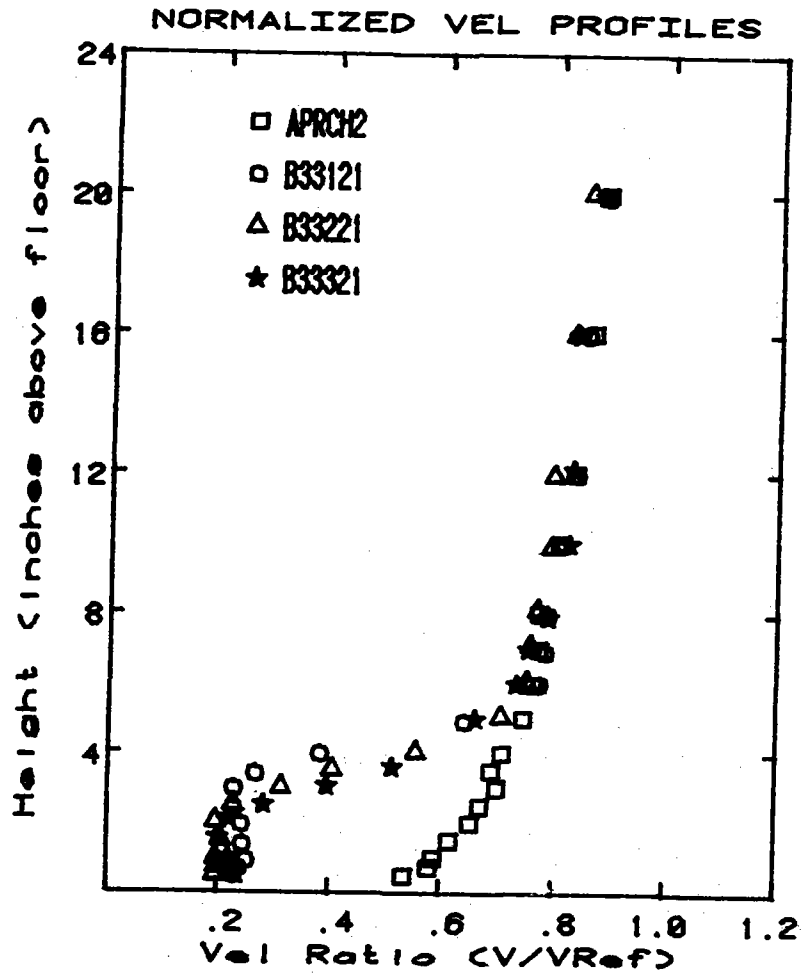
Graph # 43



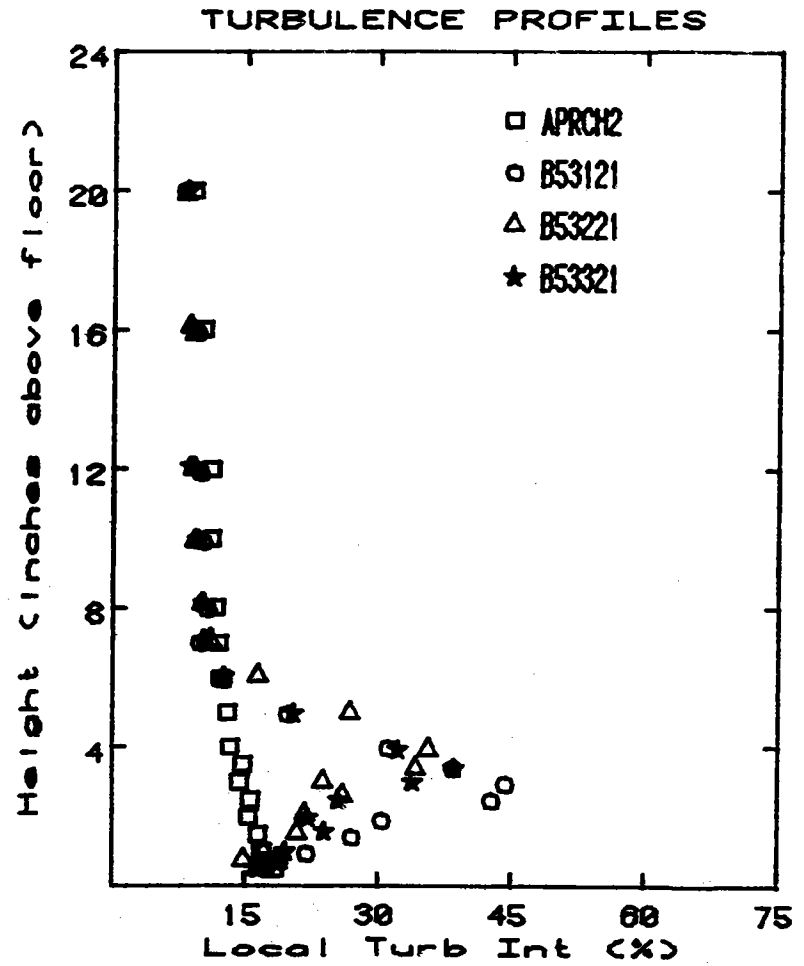
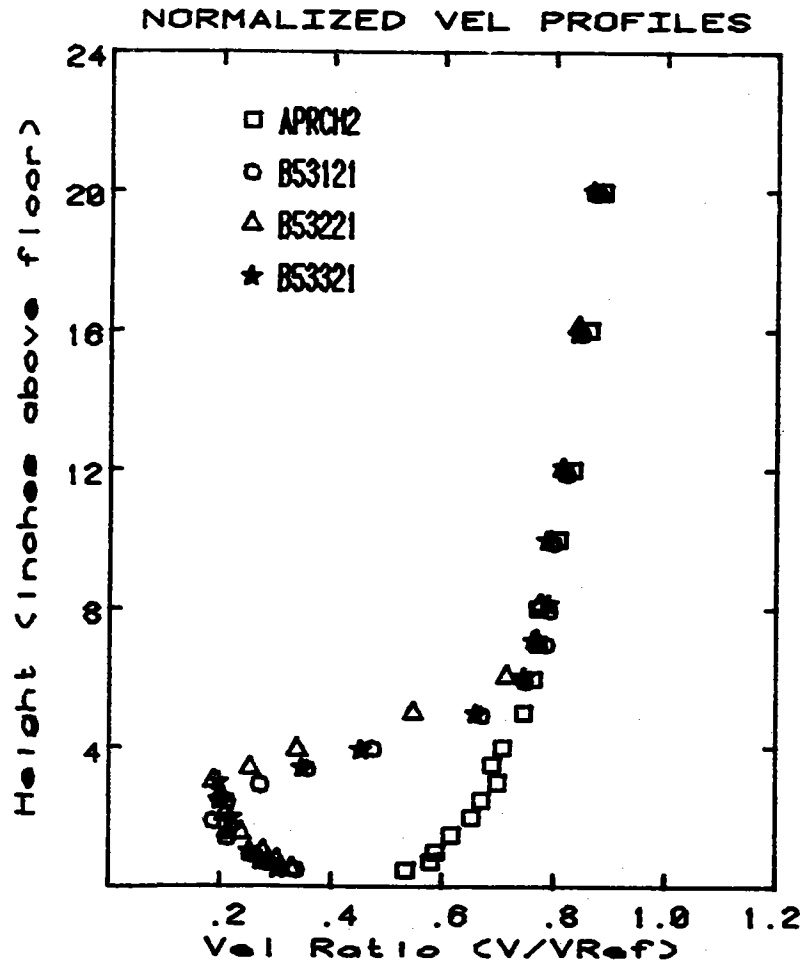
Graph # 44



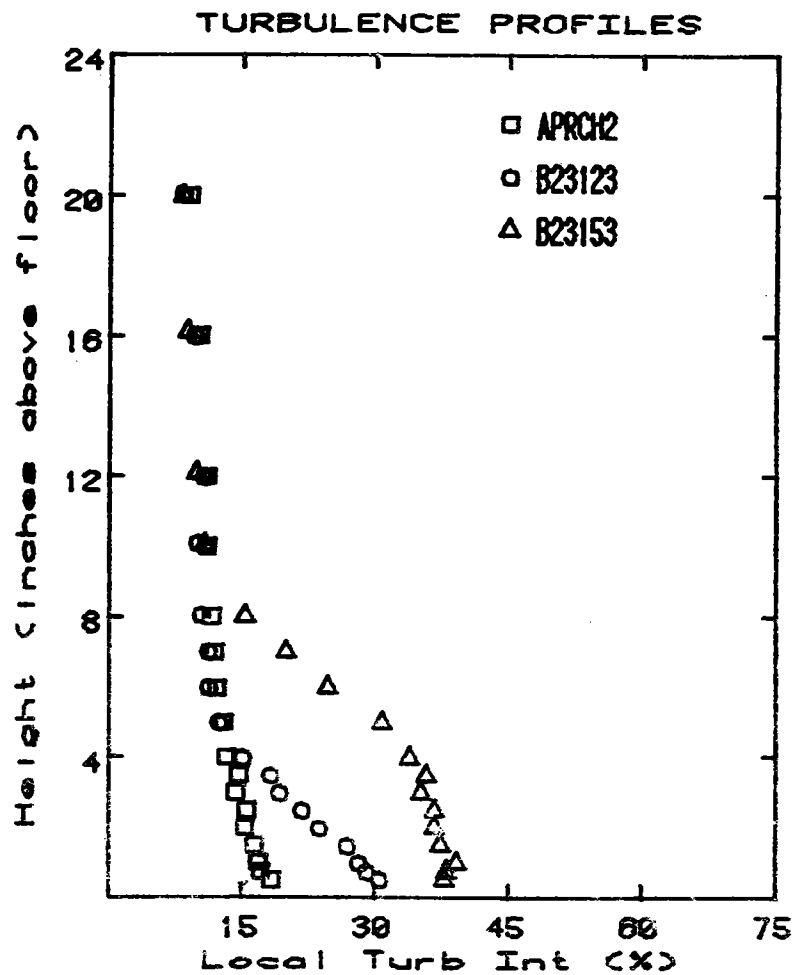
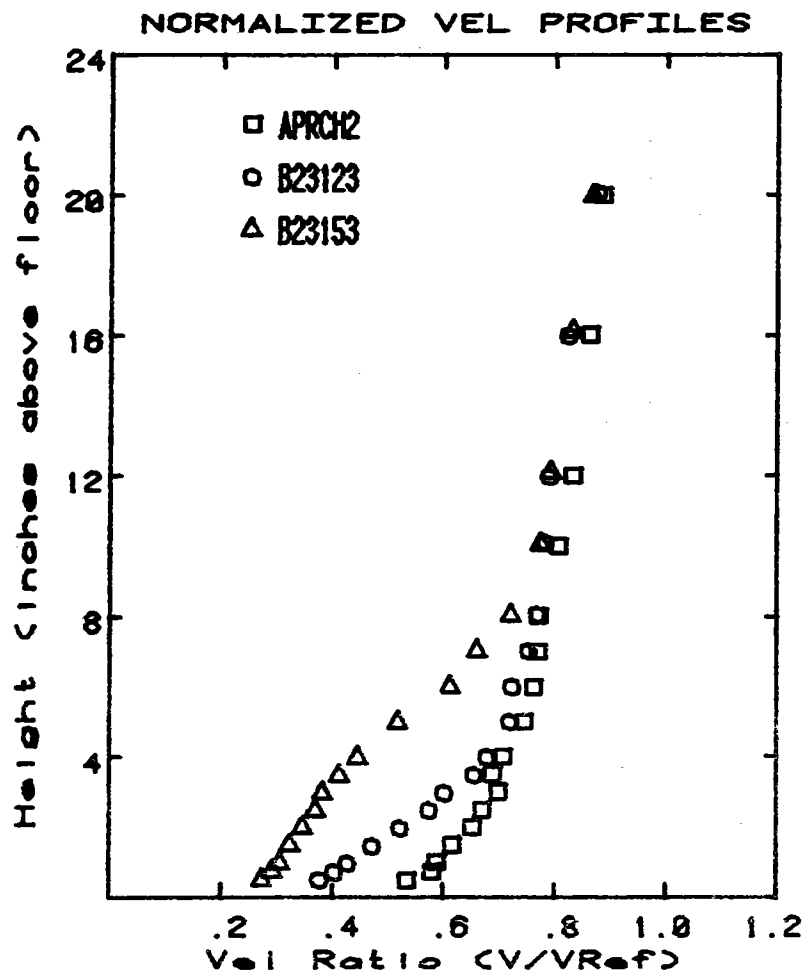
Graph # 45



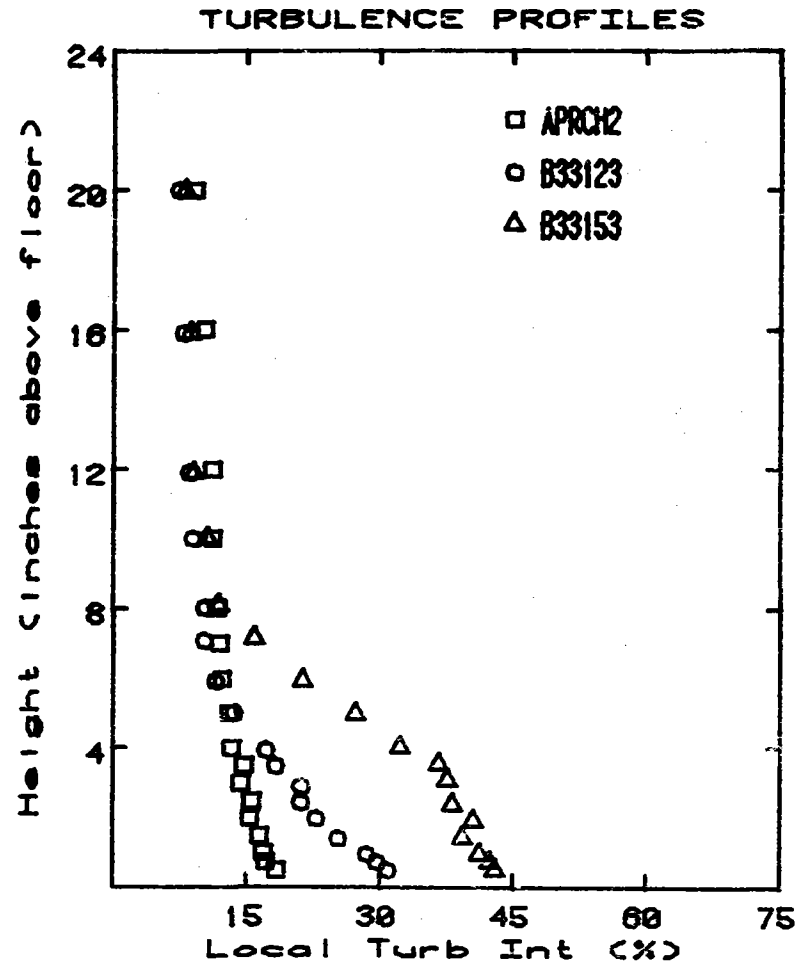
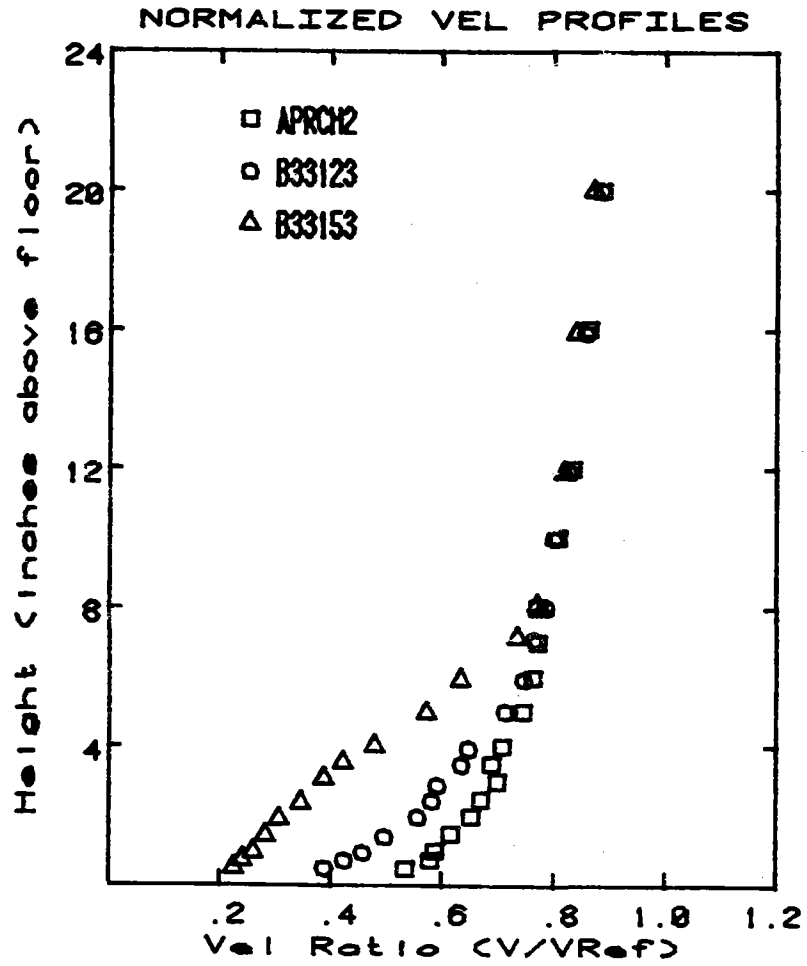
Graph # 46



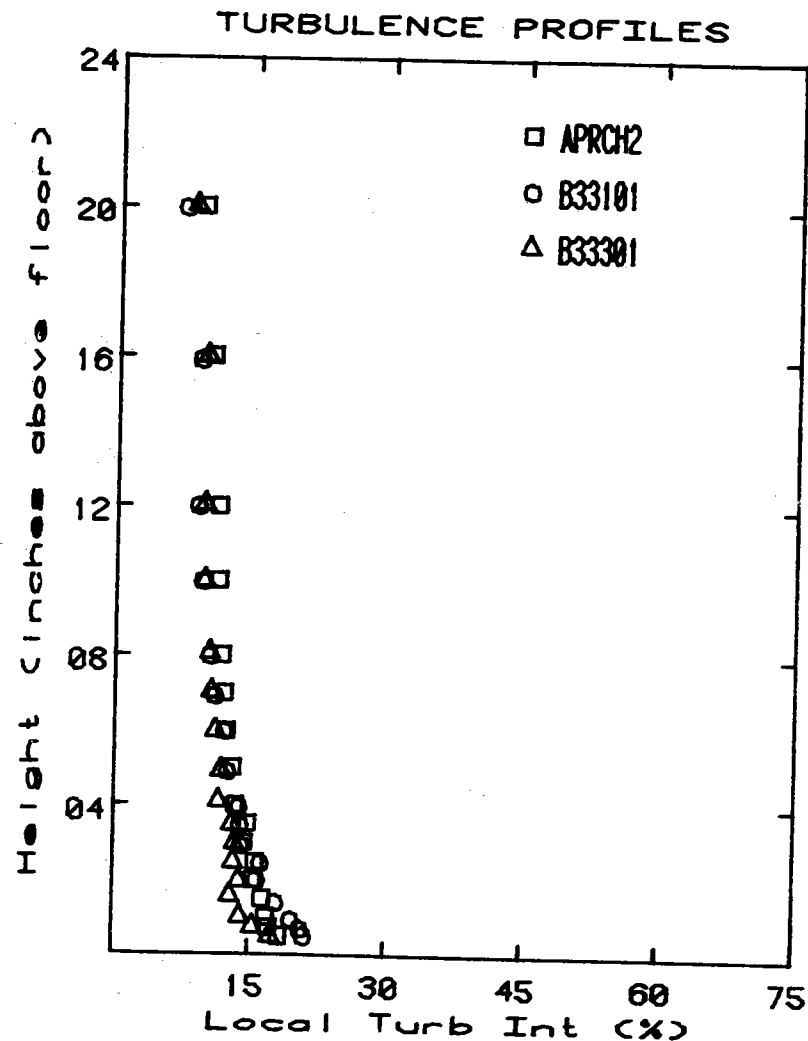
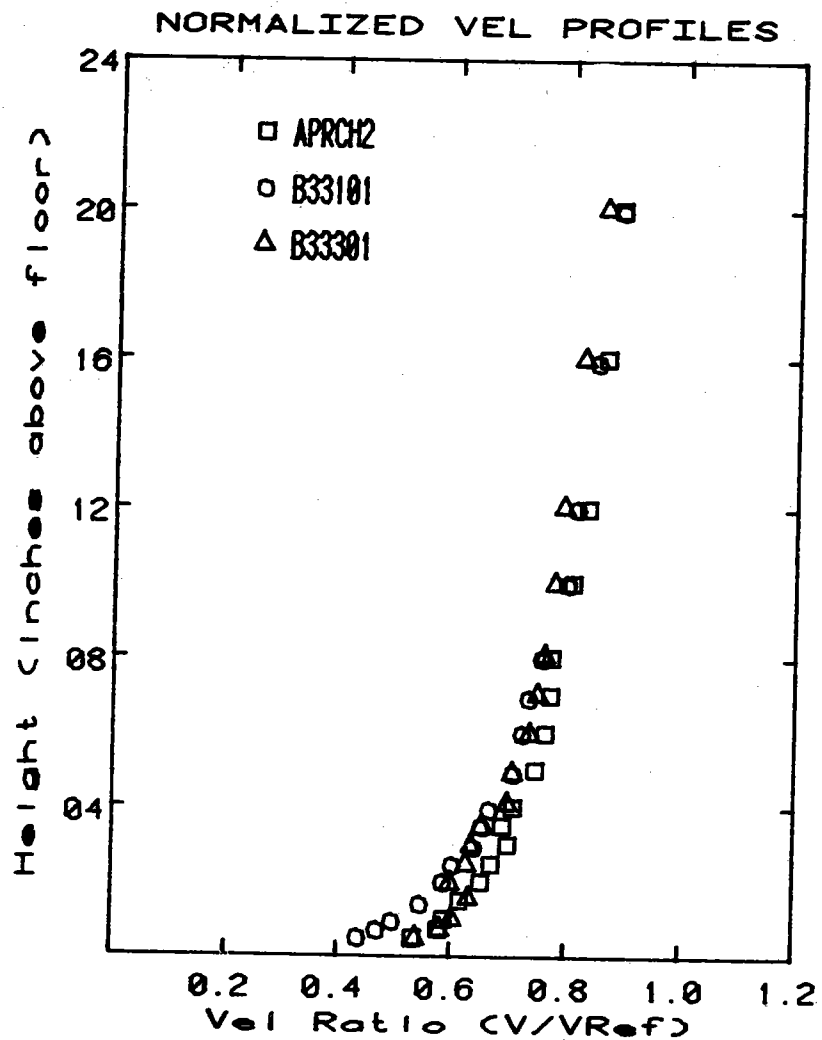
Graph # 47



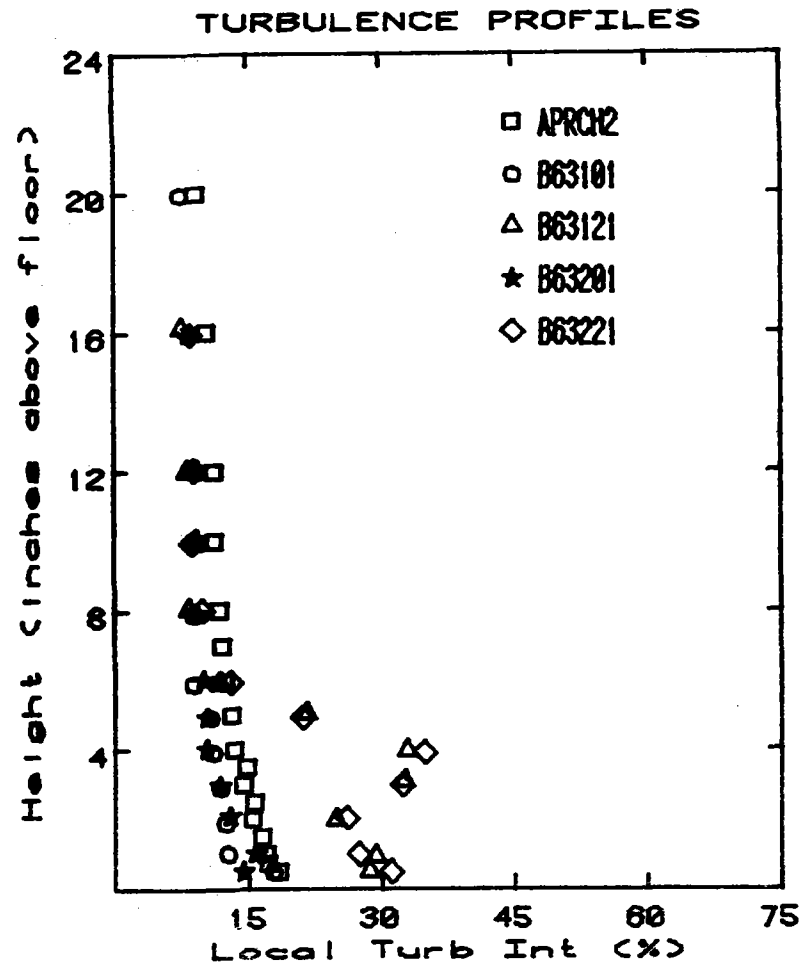
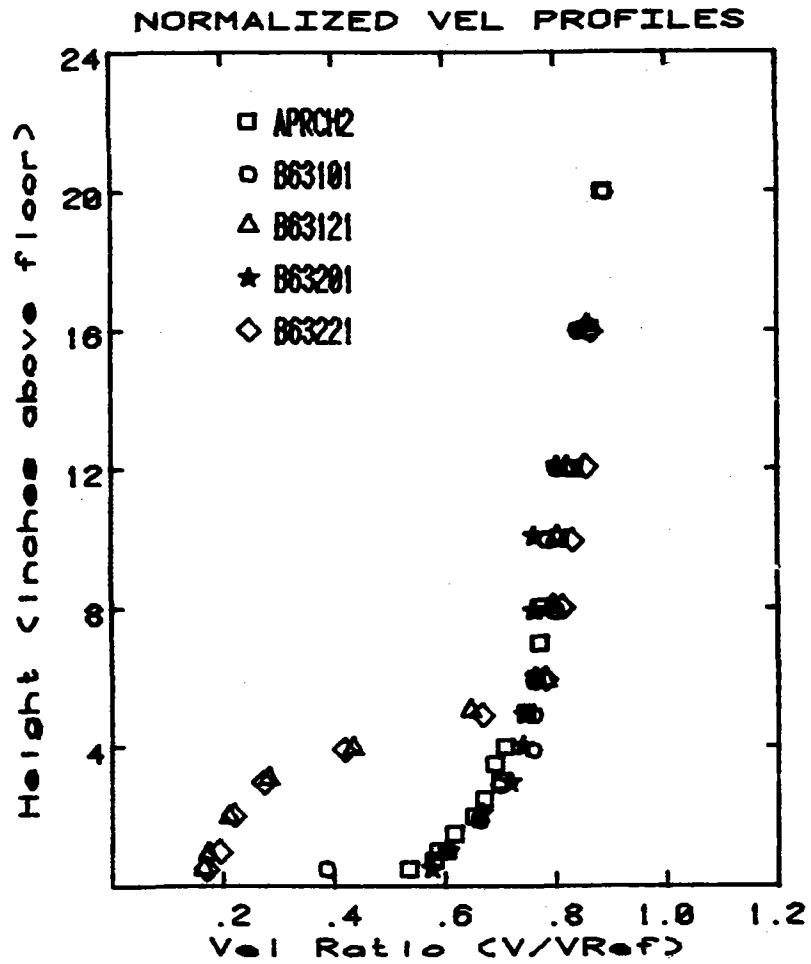
Graph # 48



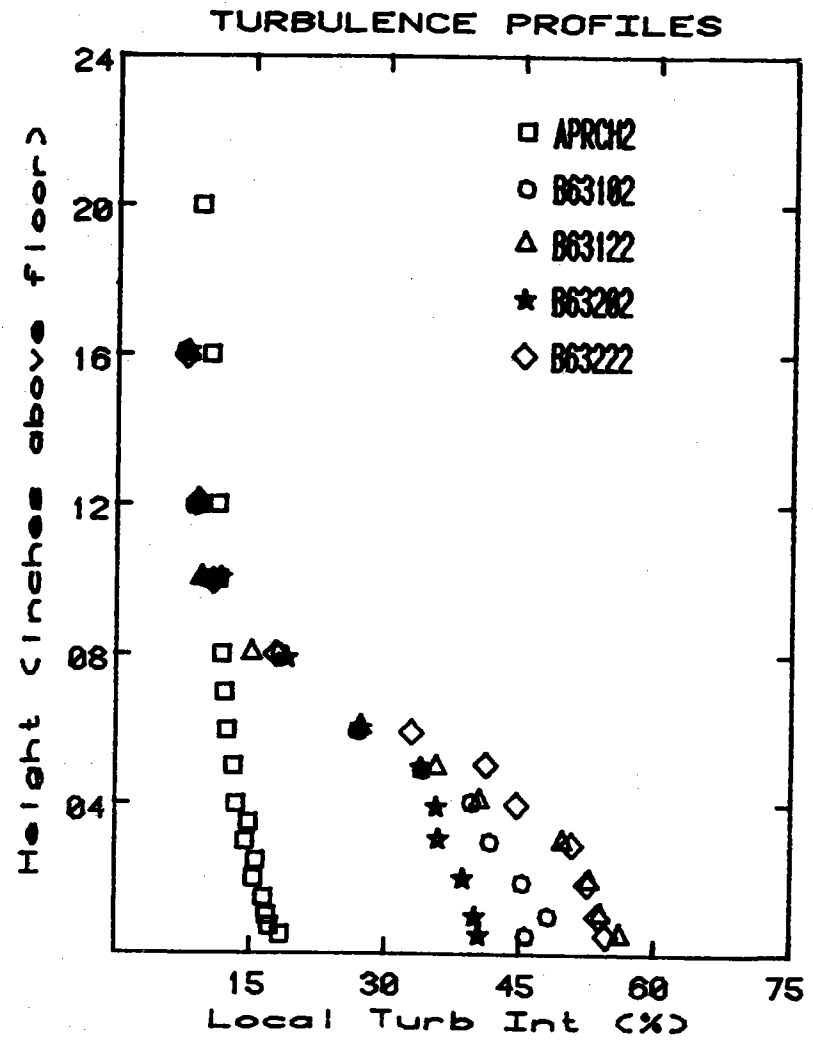
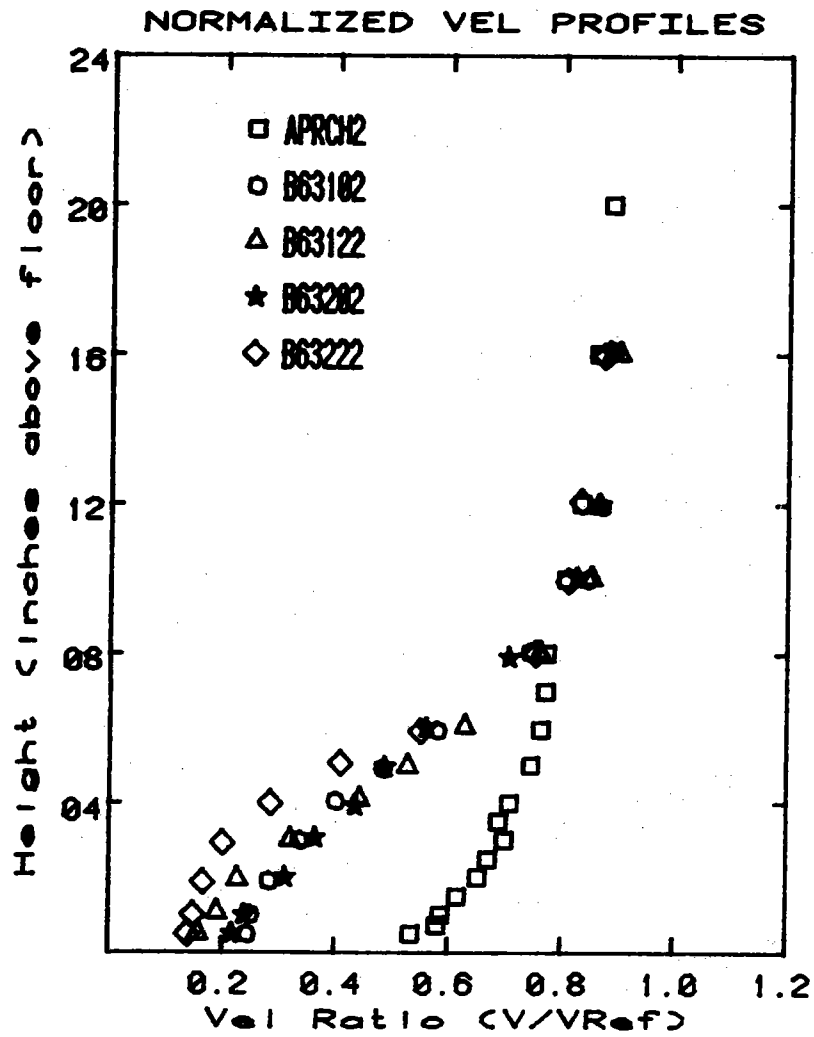
Graph # 49



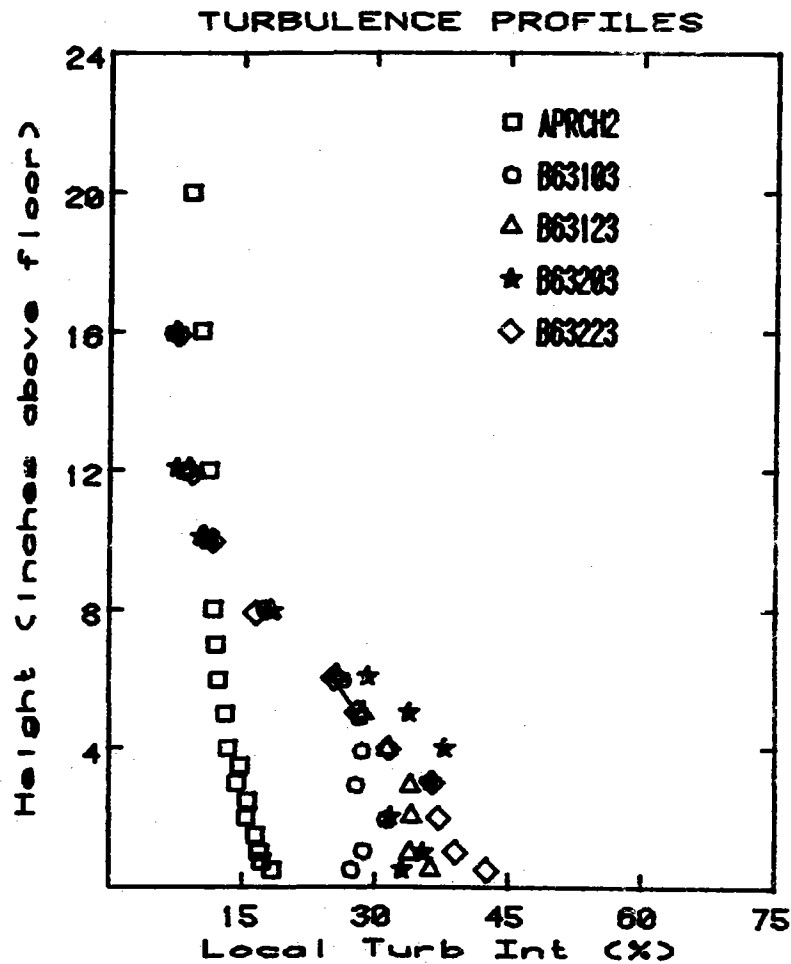
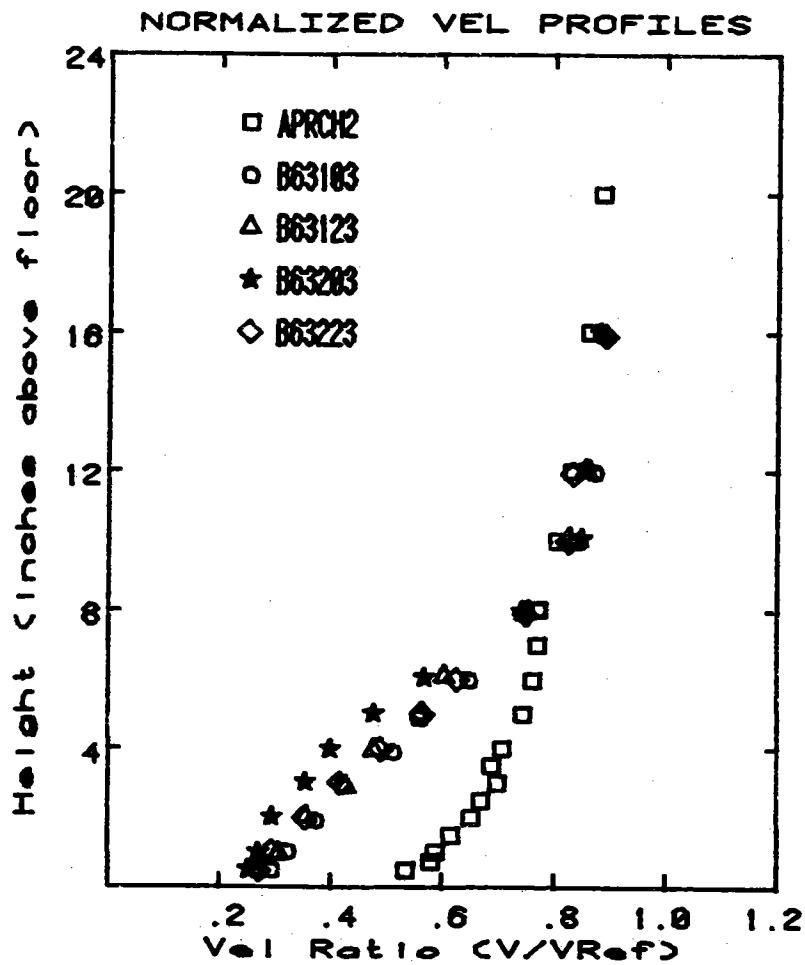
Graph # 50



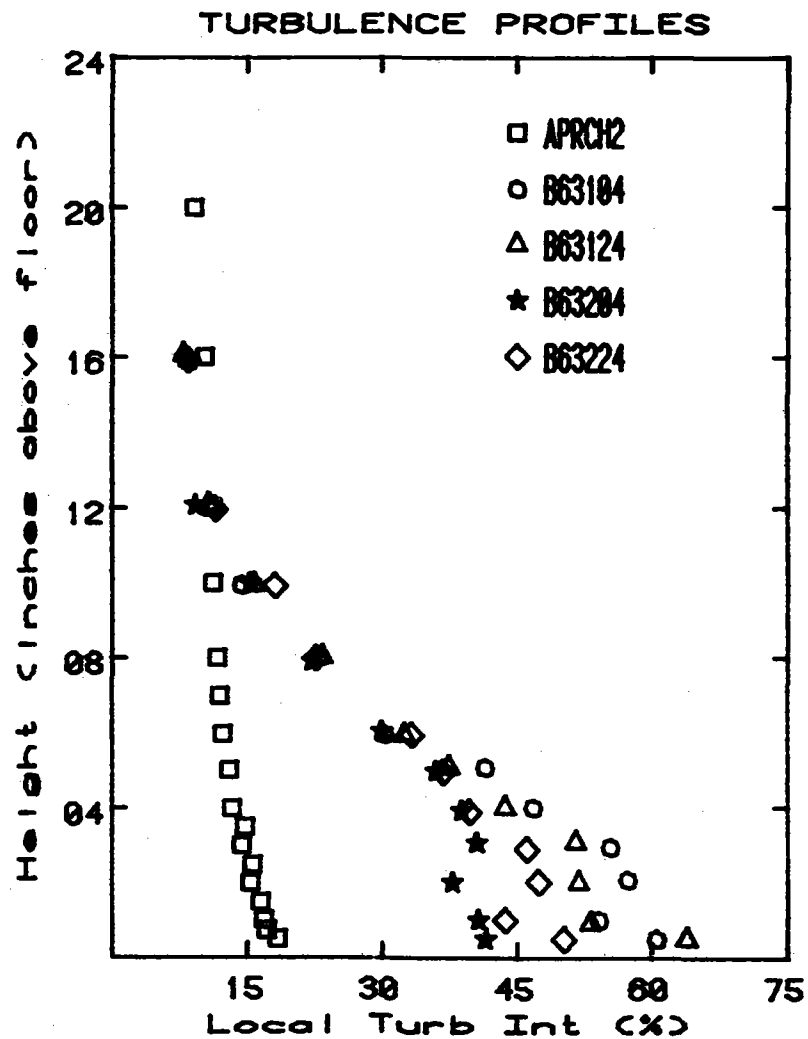
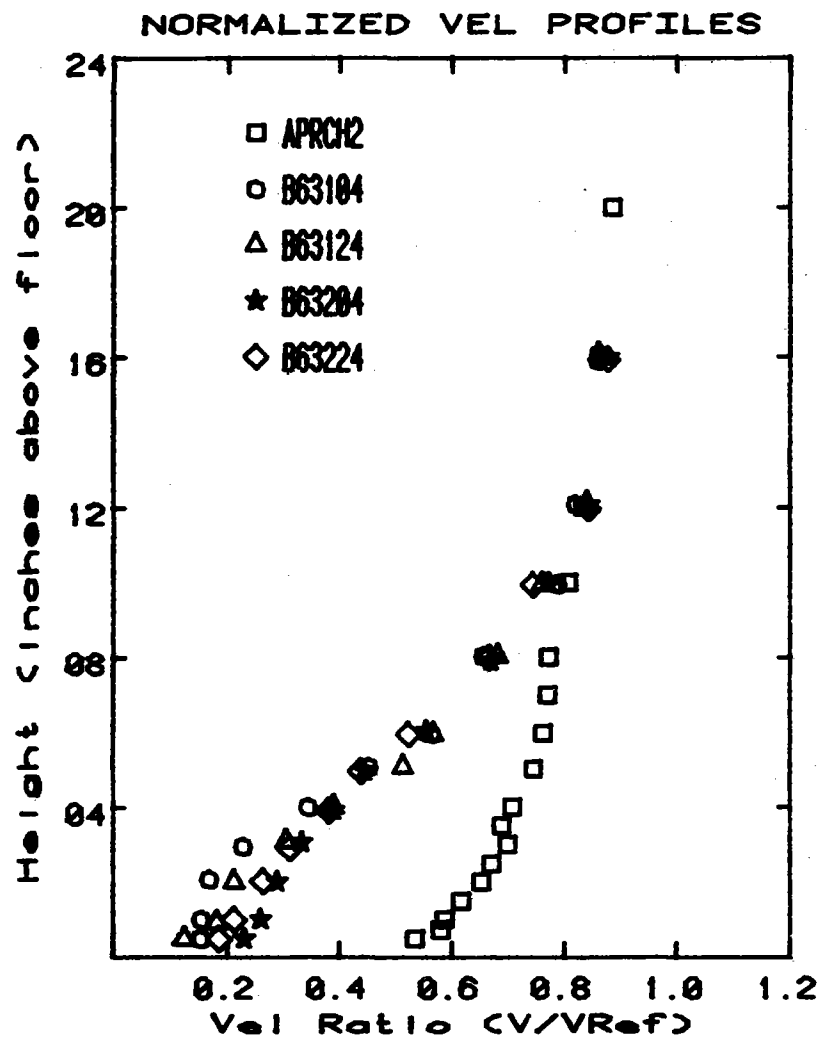
Graph # 51



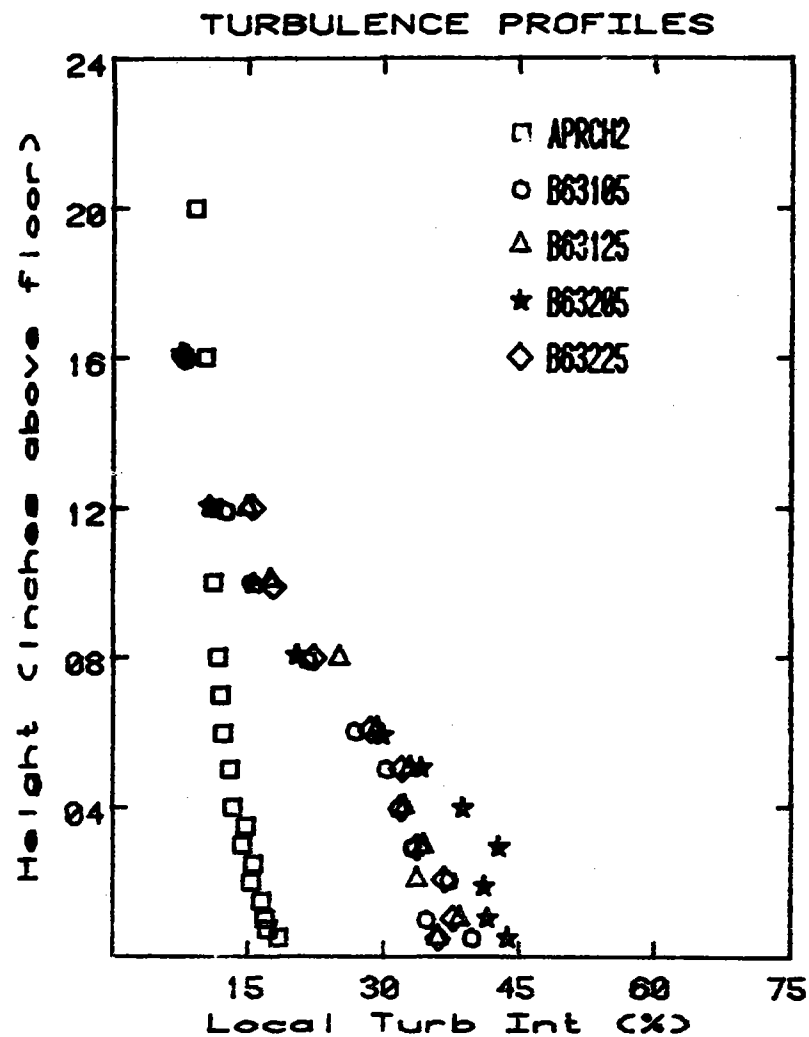
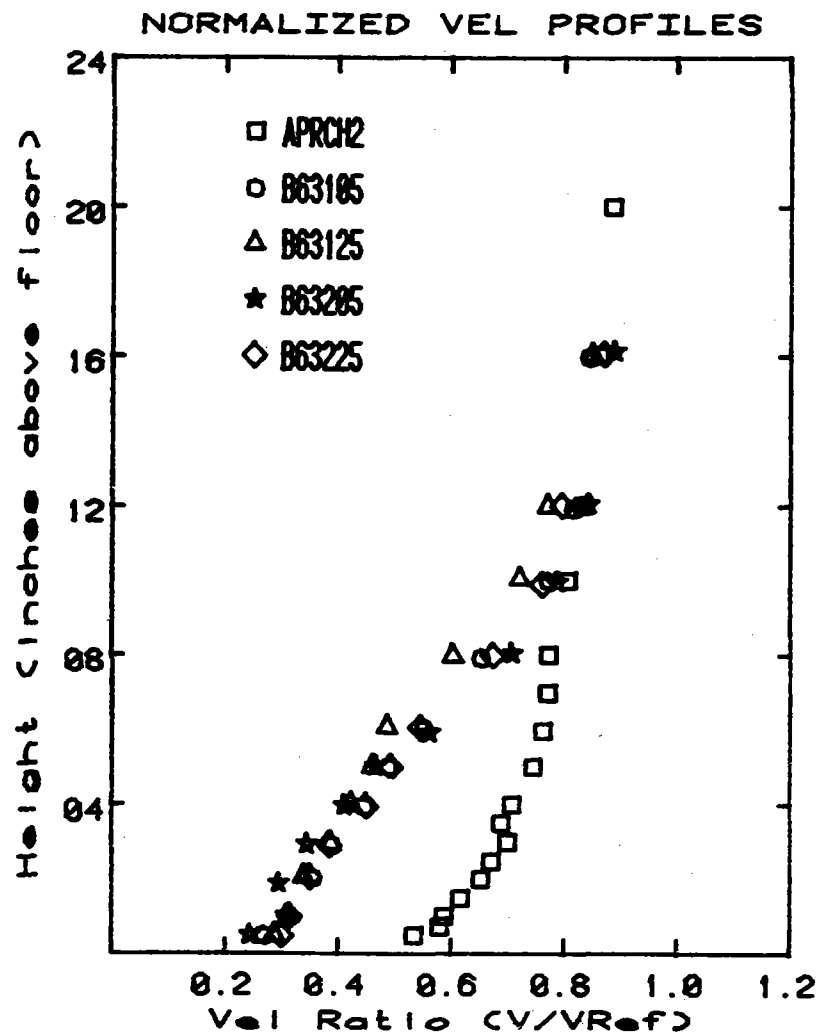
Graph # 52



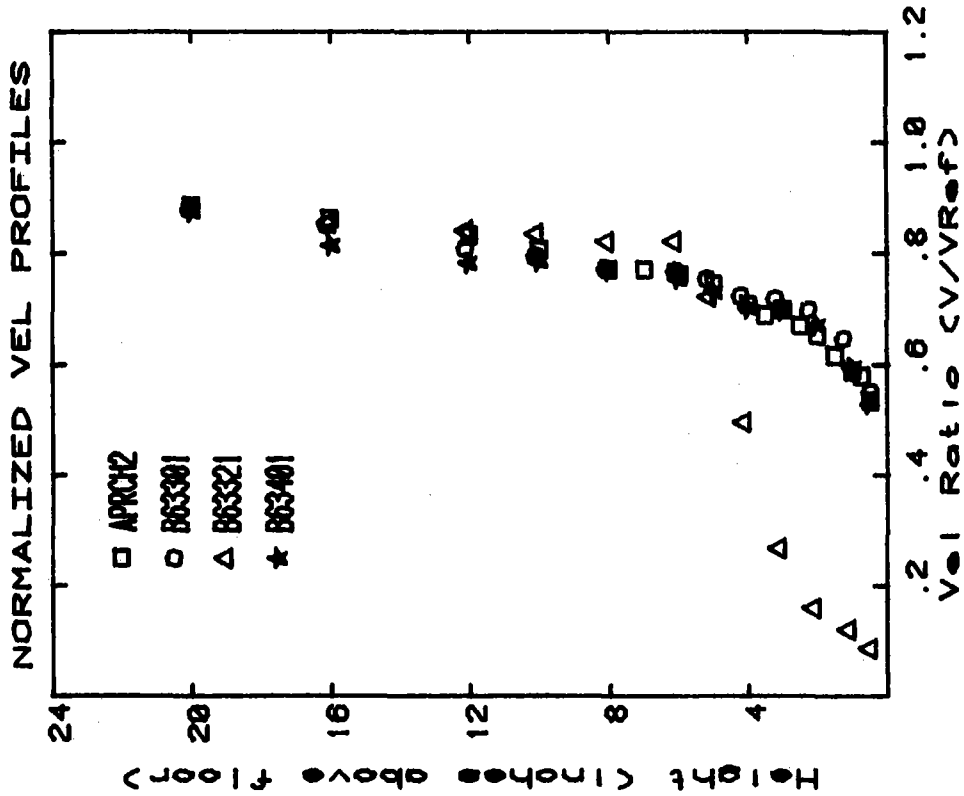
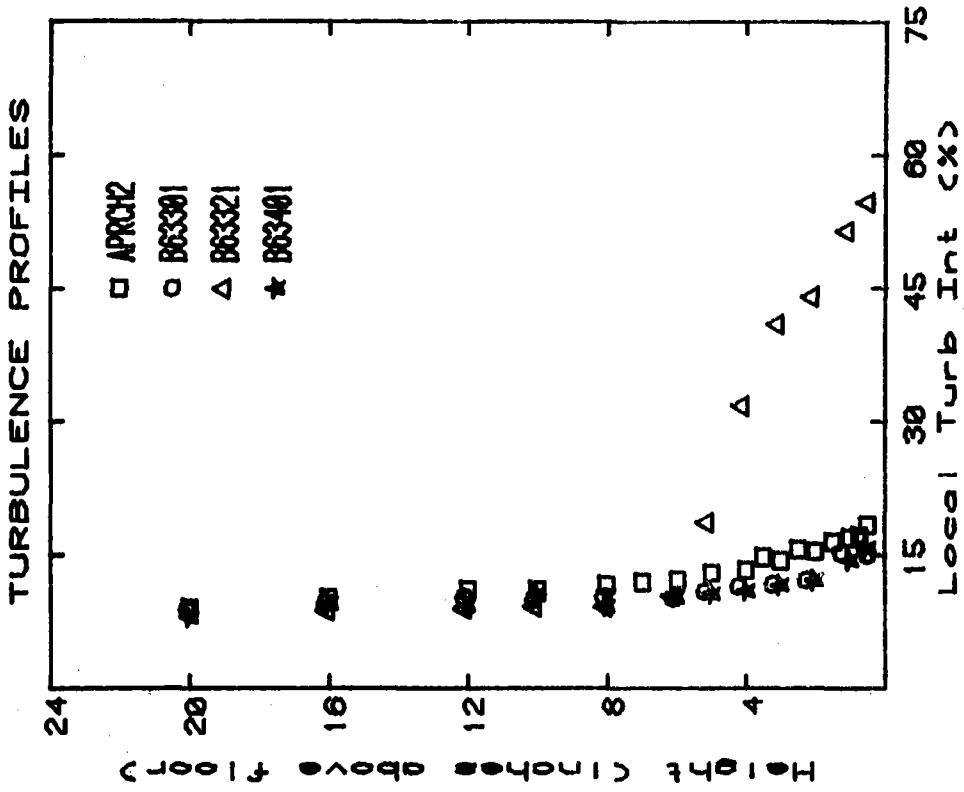
Graph # 53



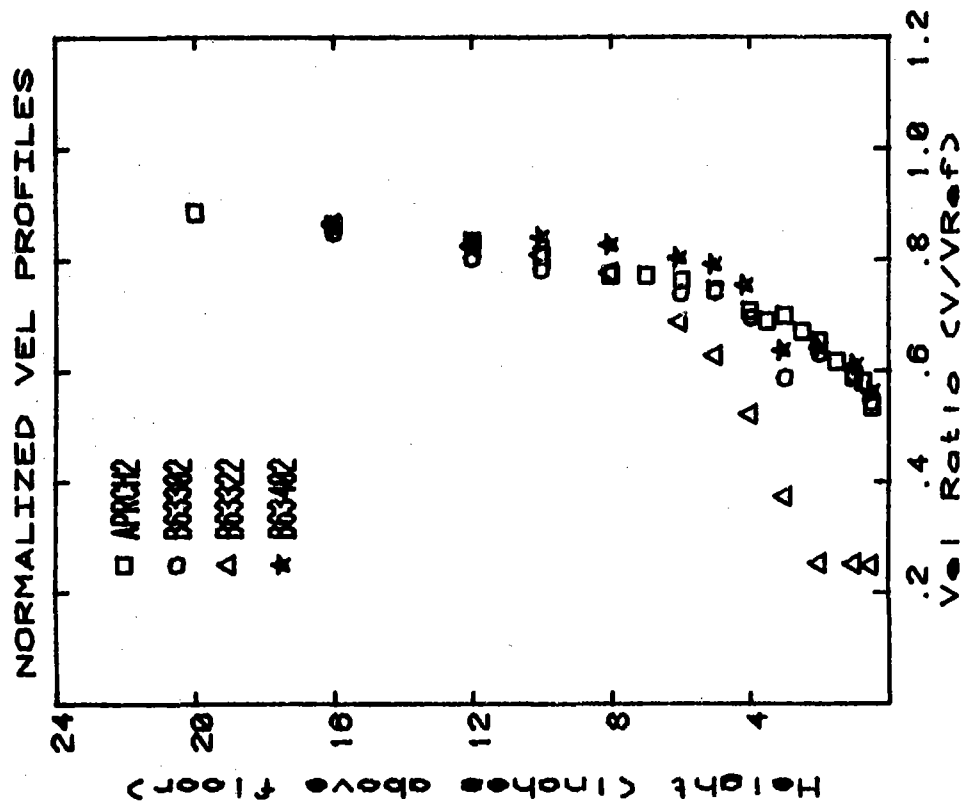
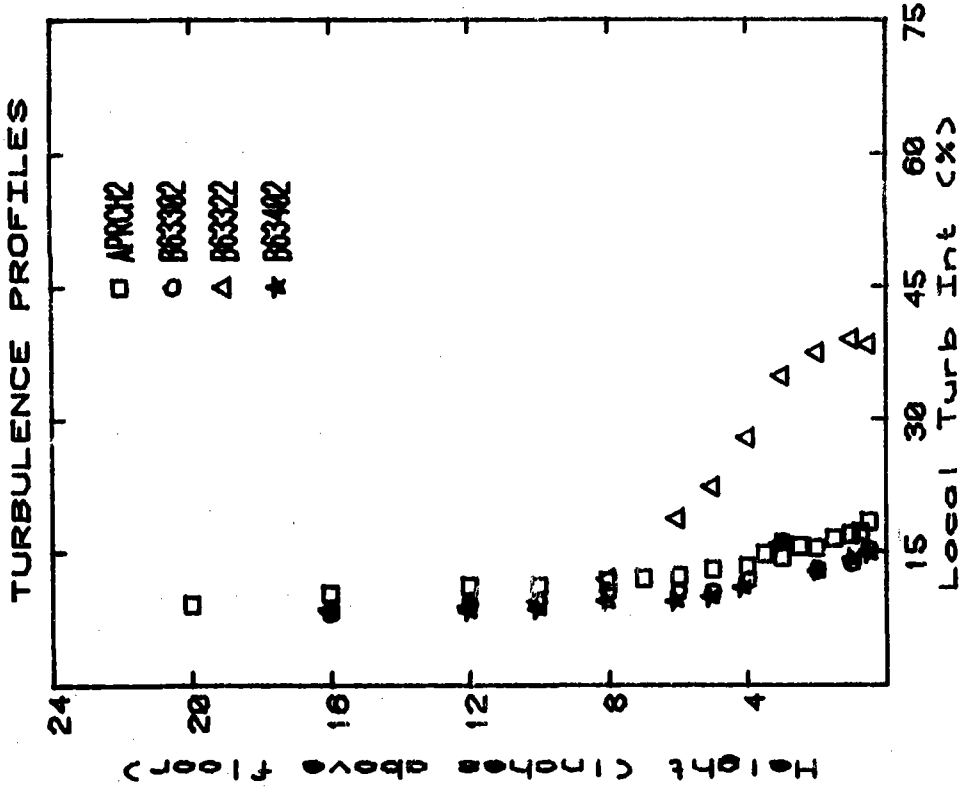
Graph # 54



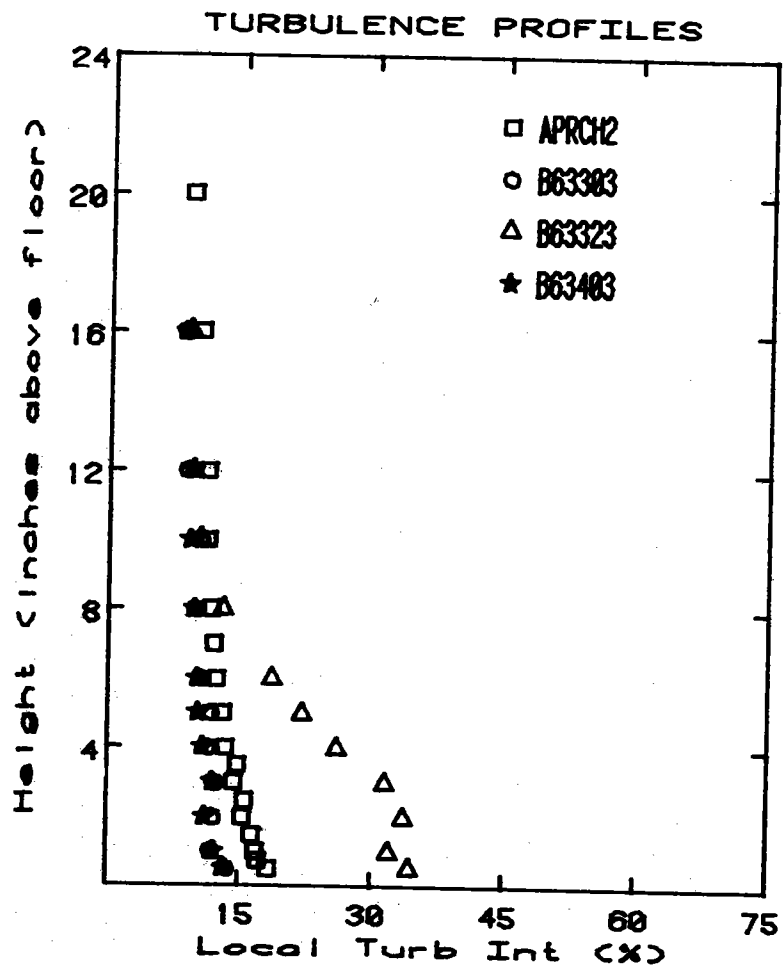
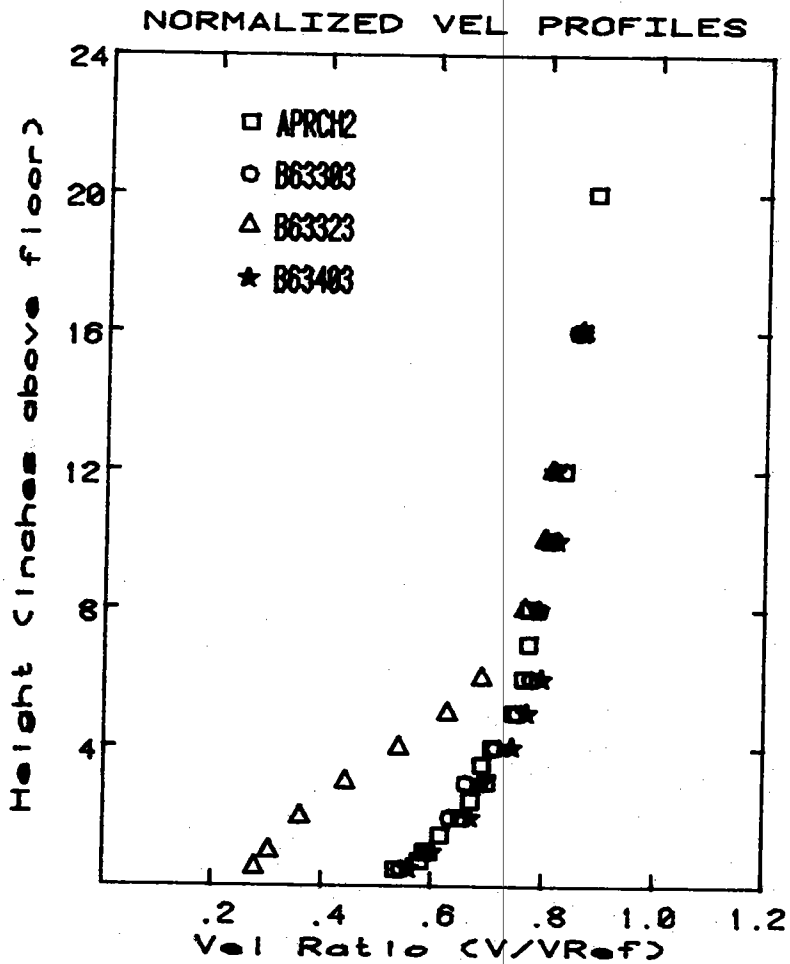
Graph # 55



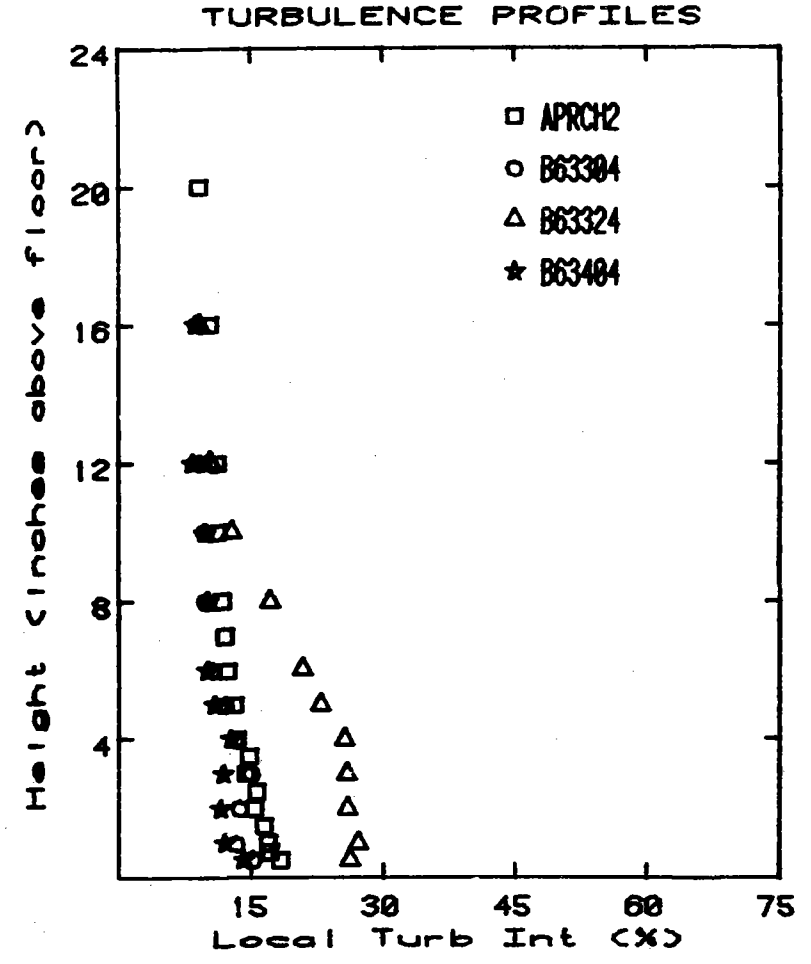
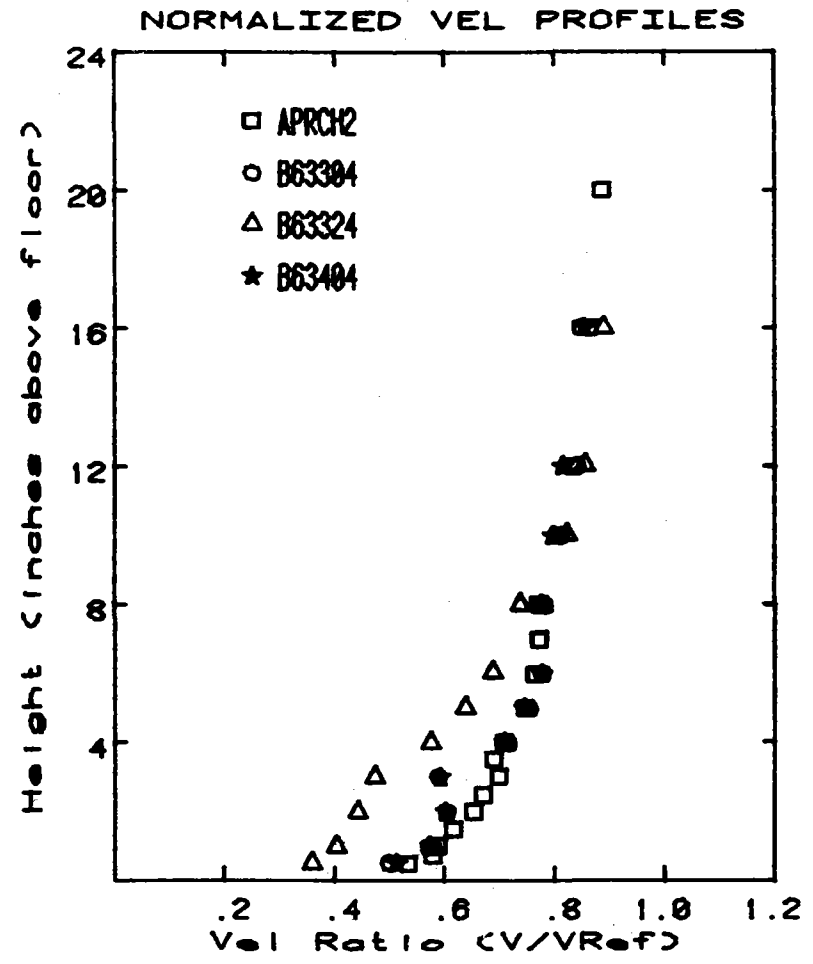
Graph # 50



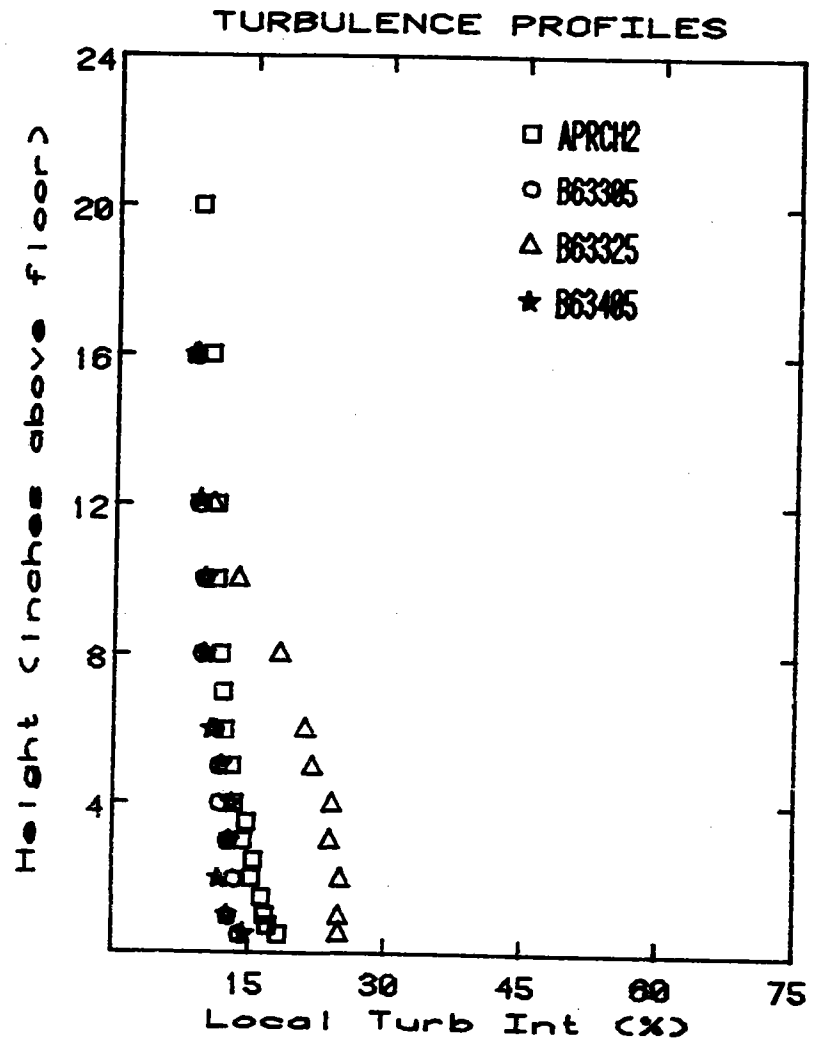
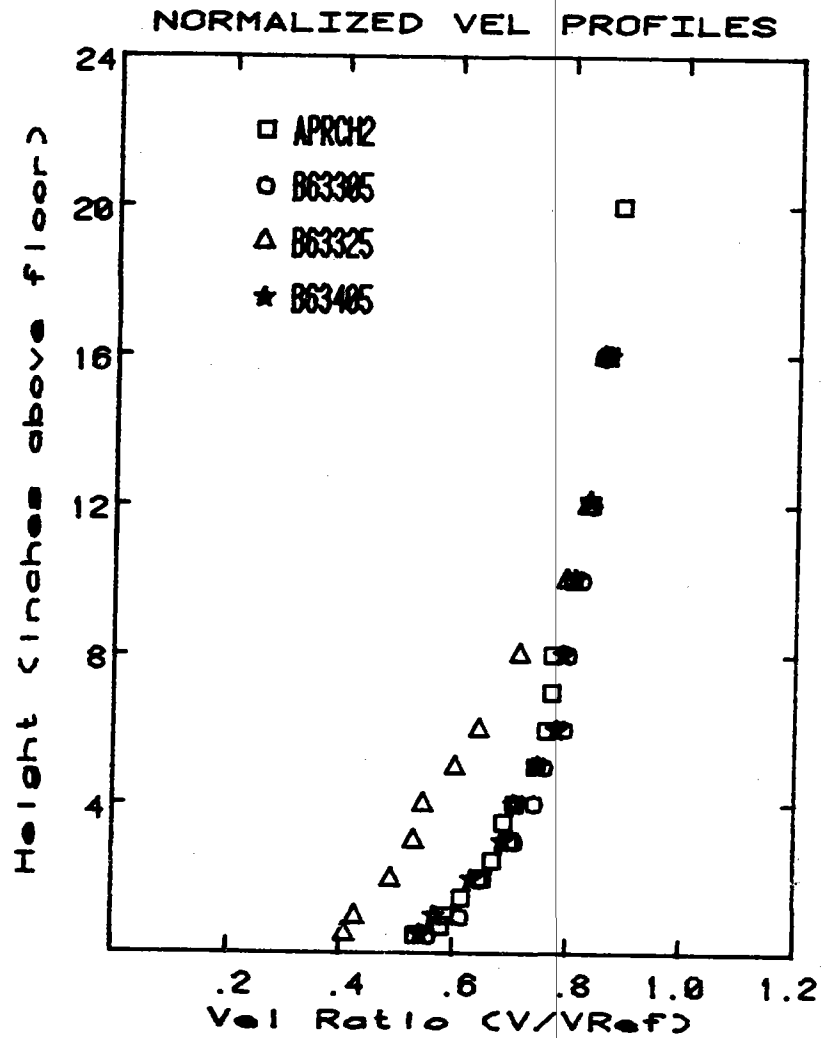
Graph # 57



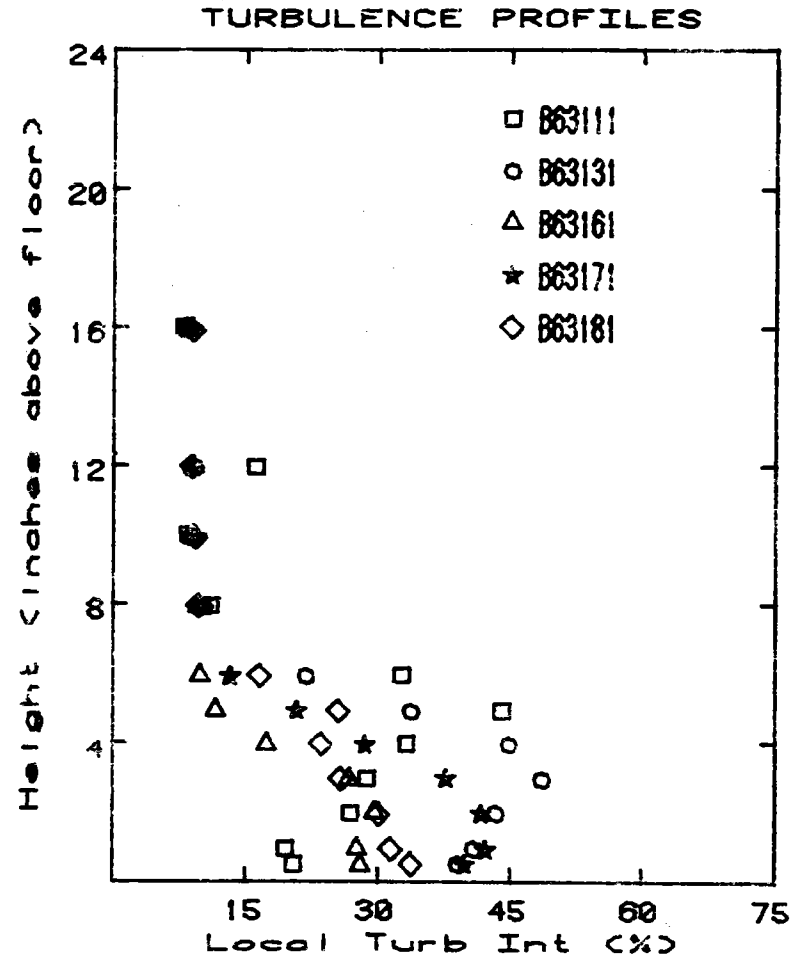
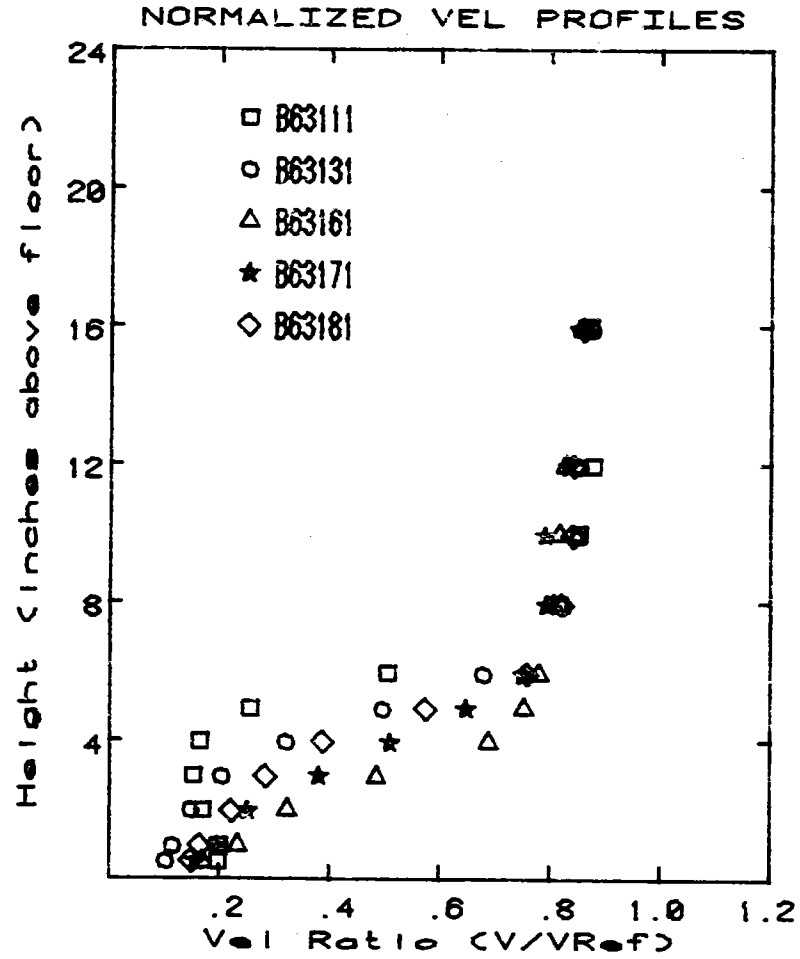
Graph # 58



Graph # 59

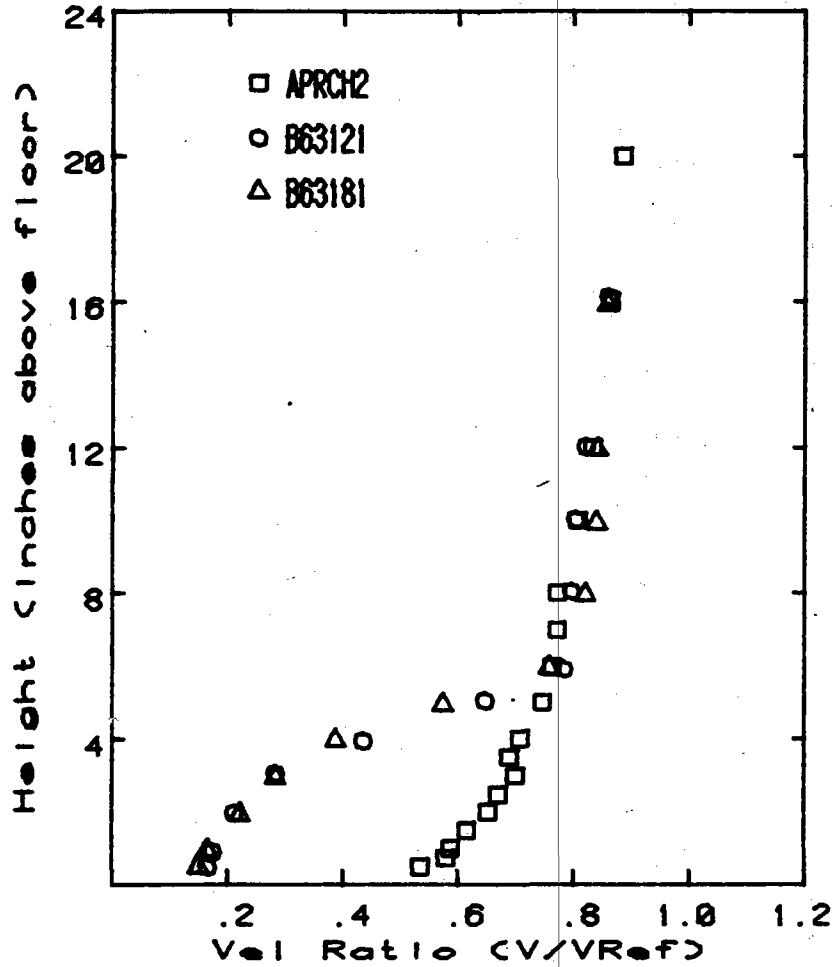


Graph # 60

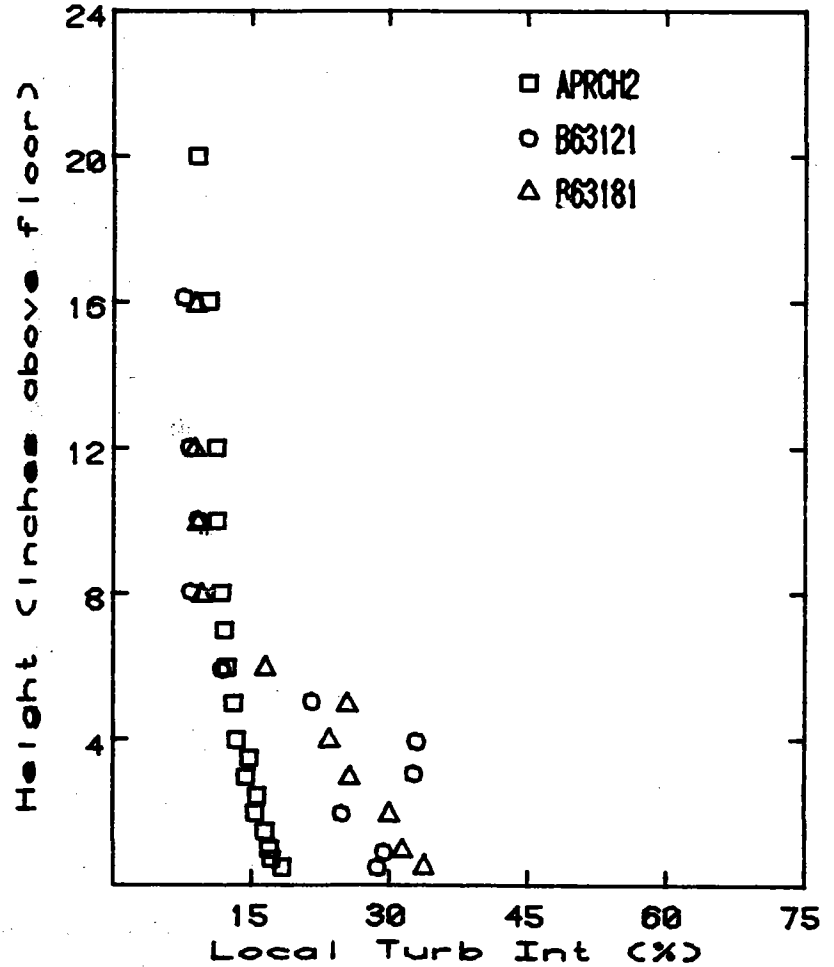


Graph # 61

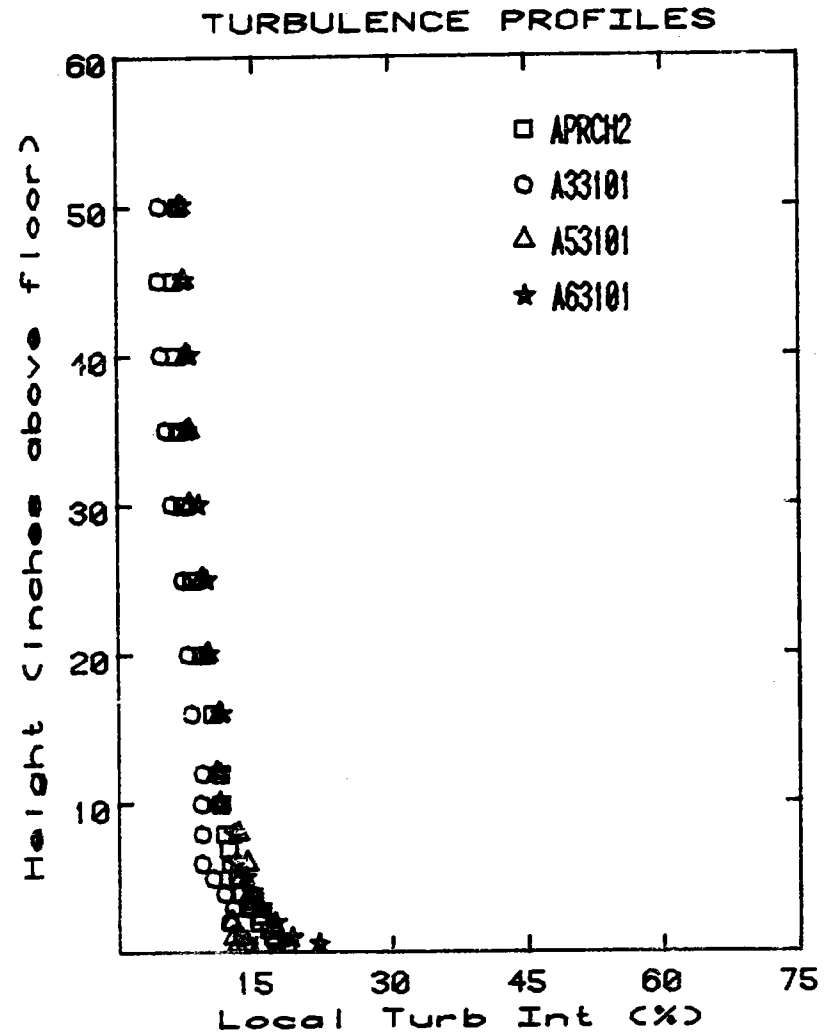
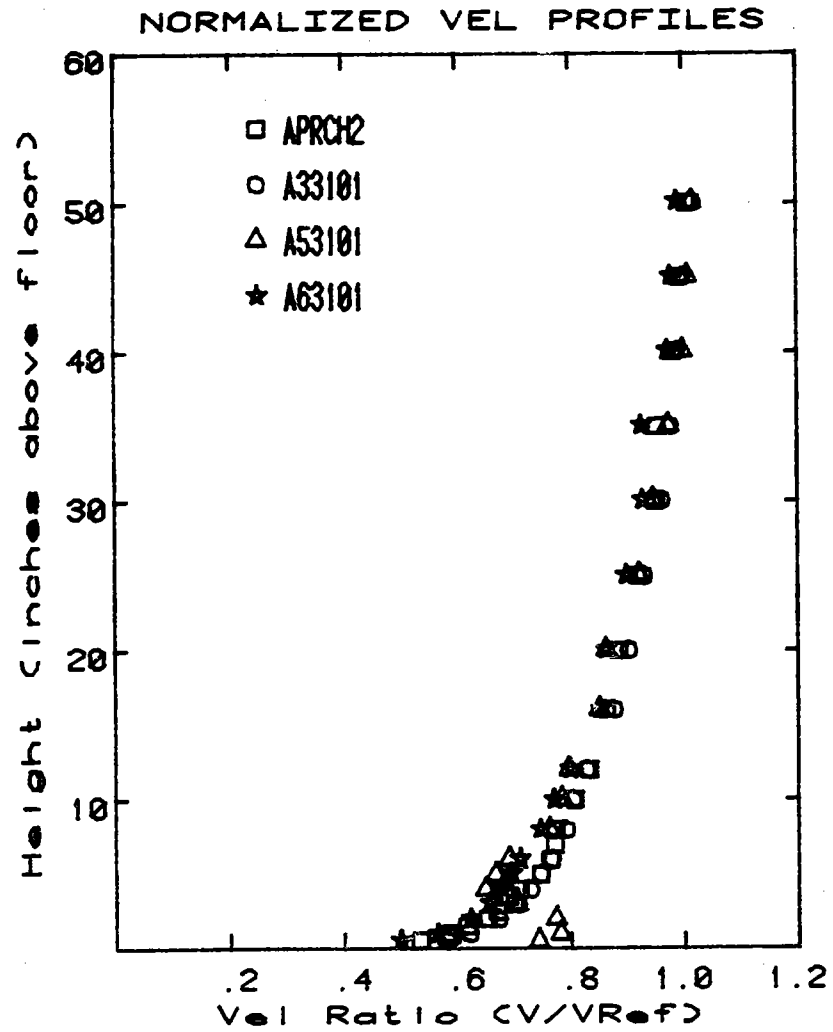
NORMALIZED VEL PROFILES



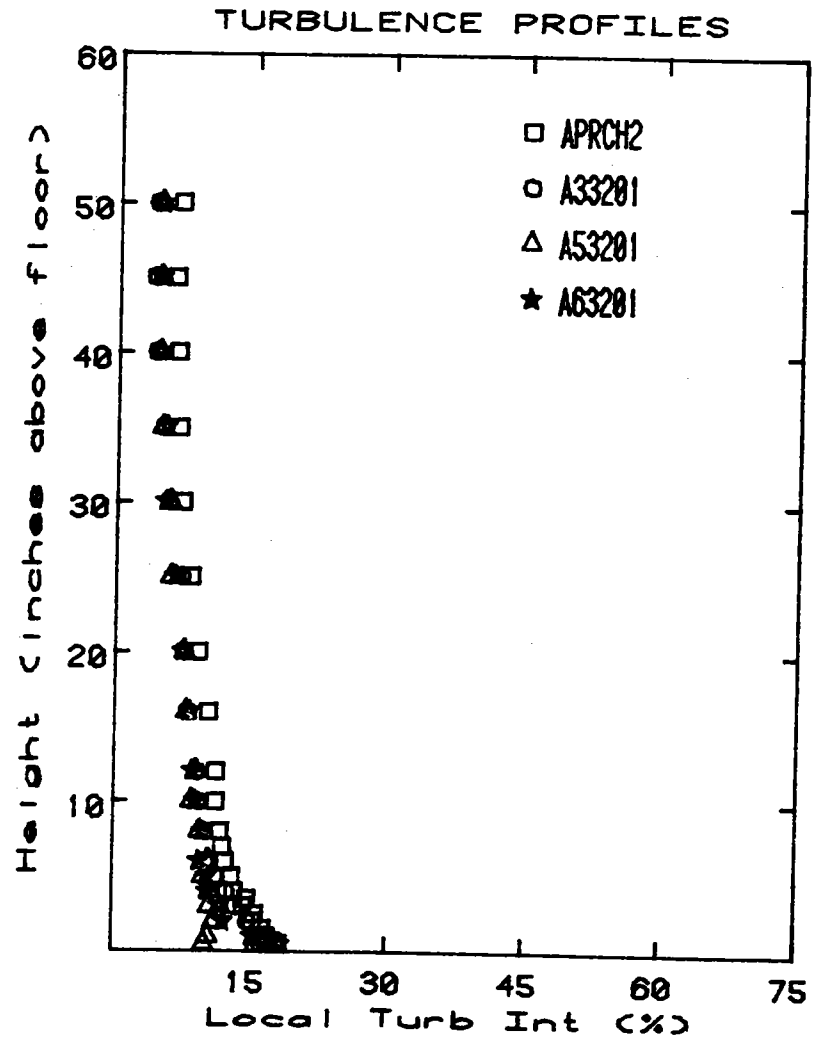
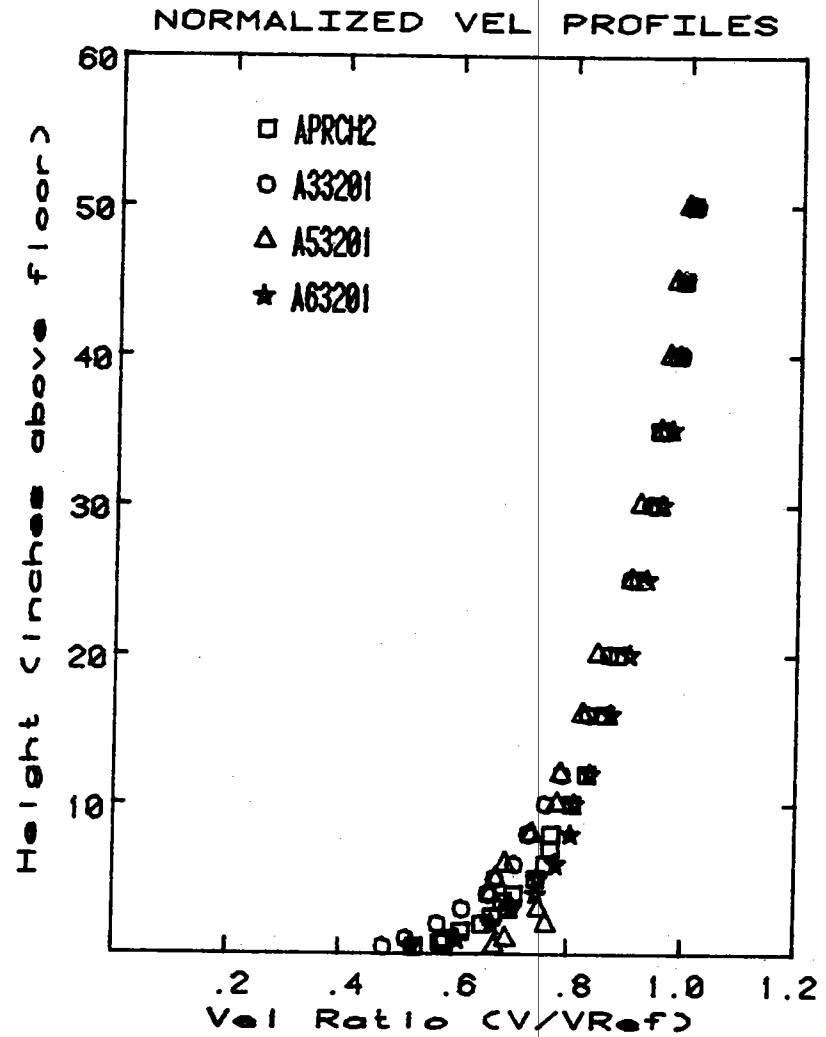
TURBULENCE PROFILES



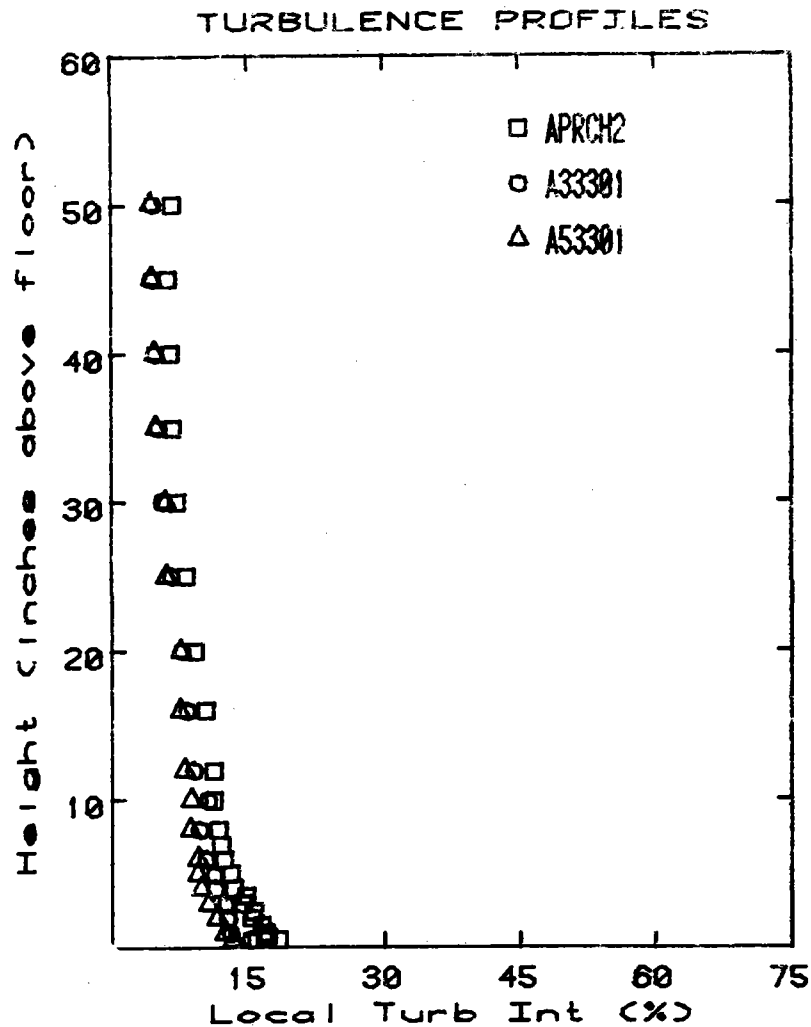
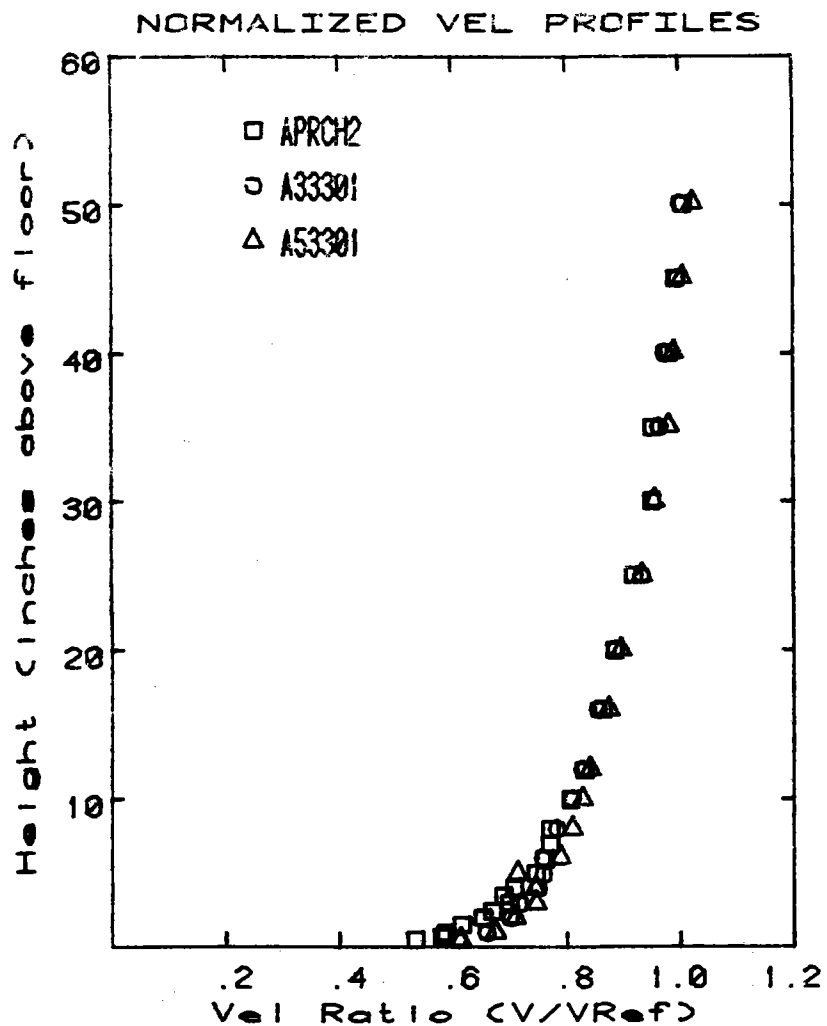
Graph # 62



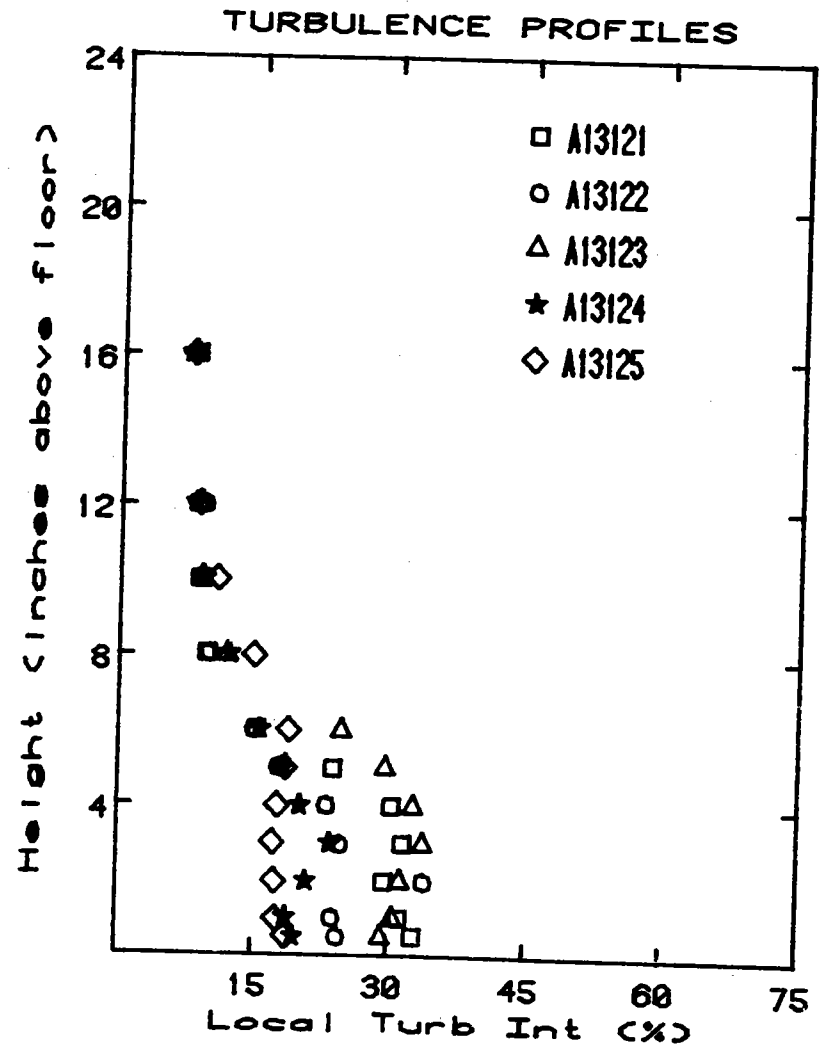
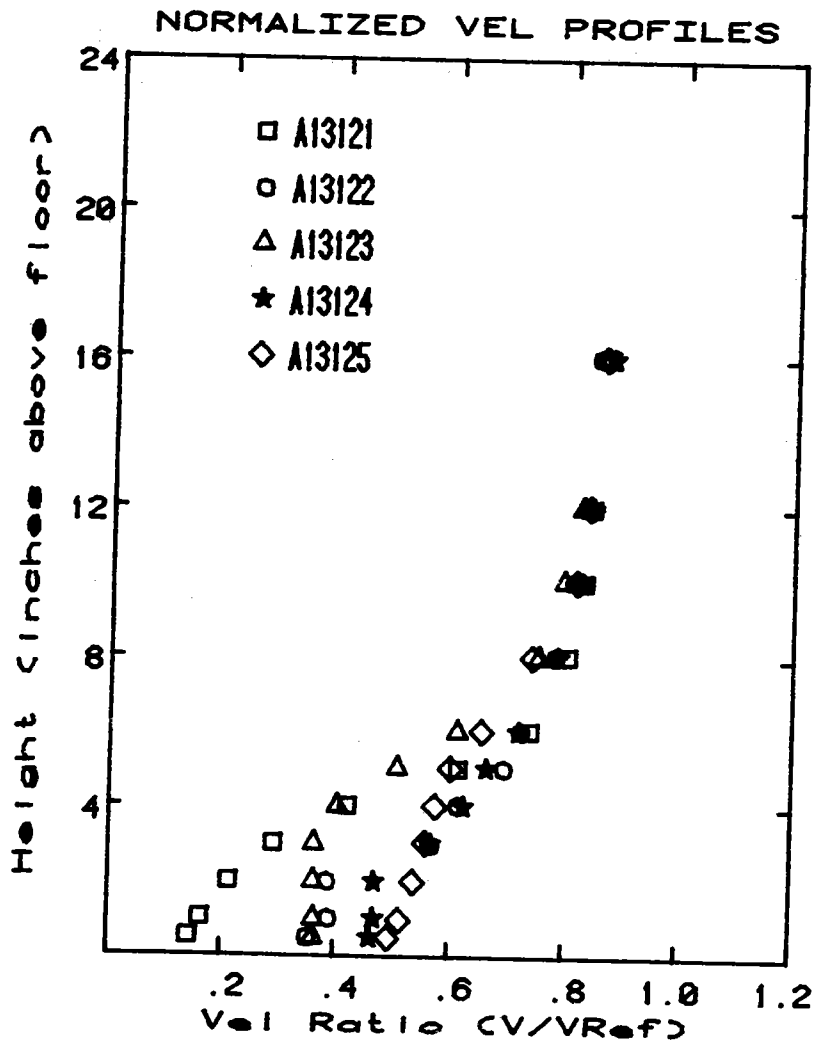
Graph # 63



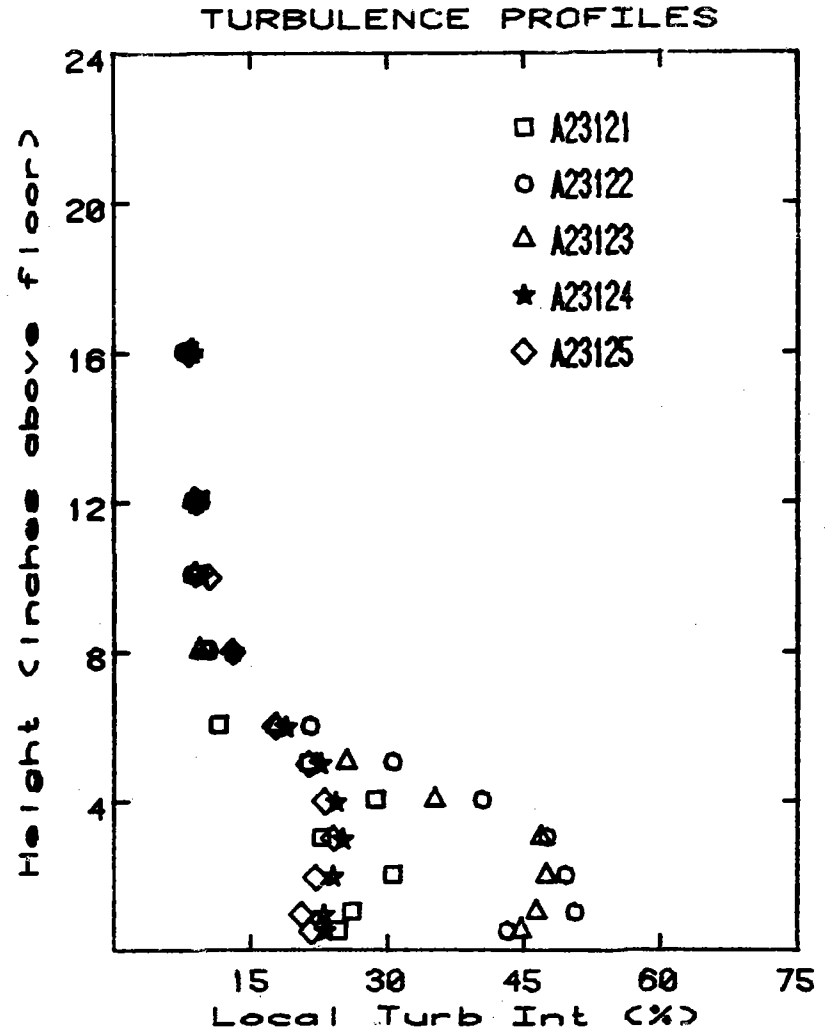
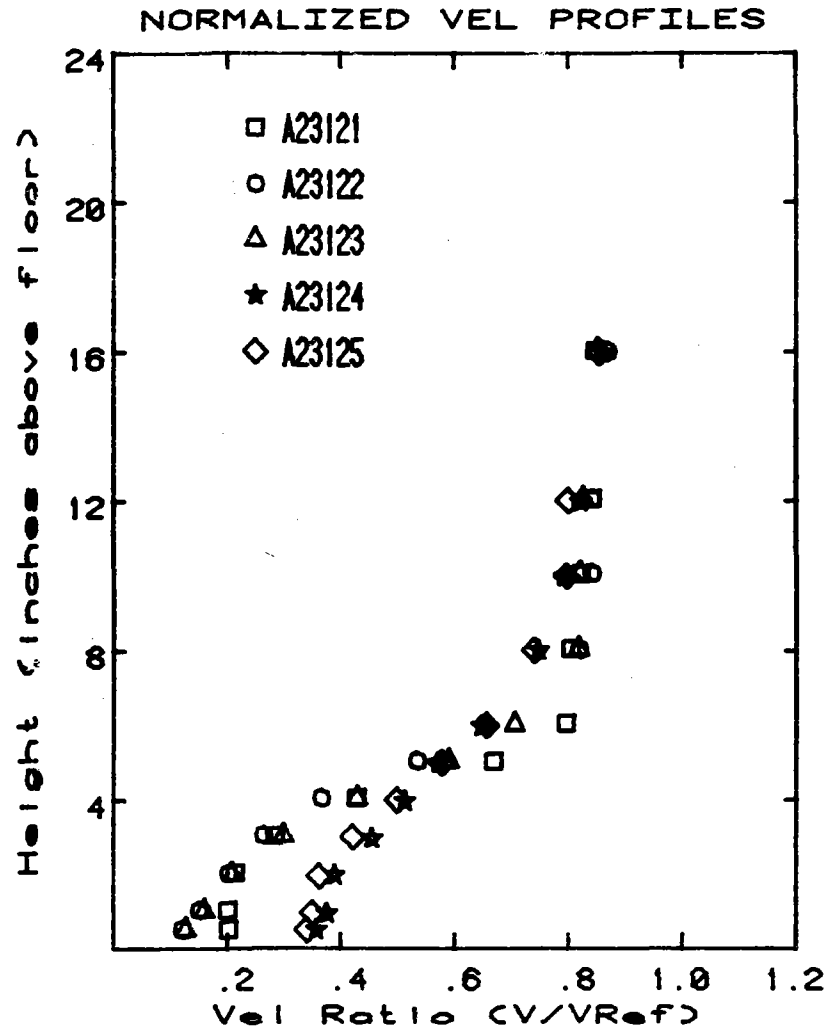
Graph # 64



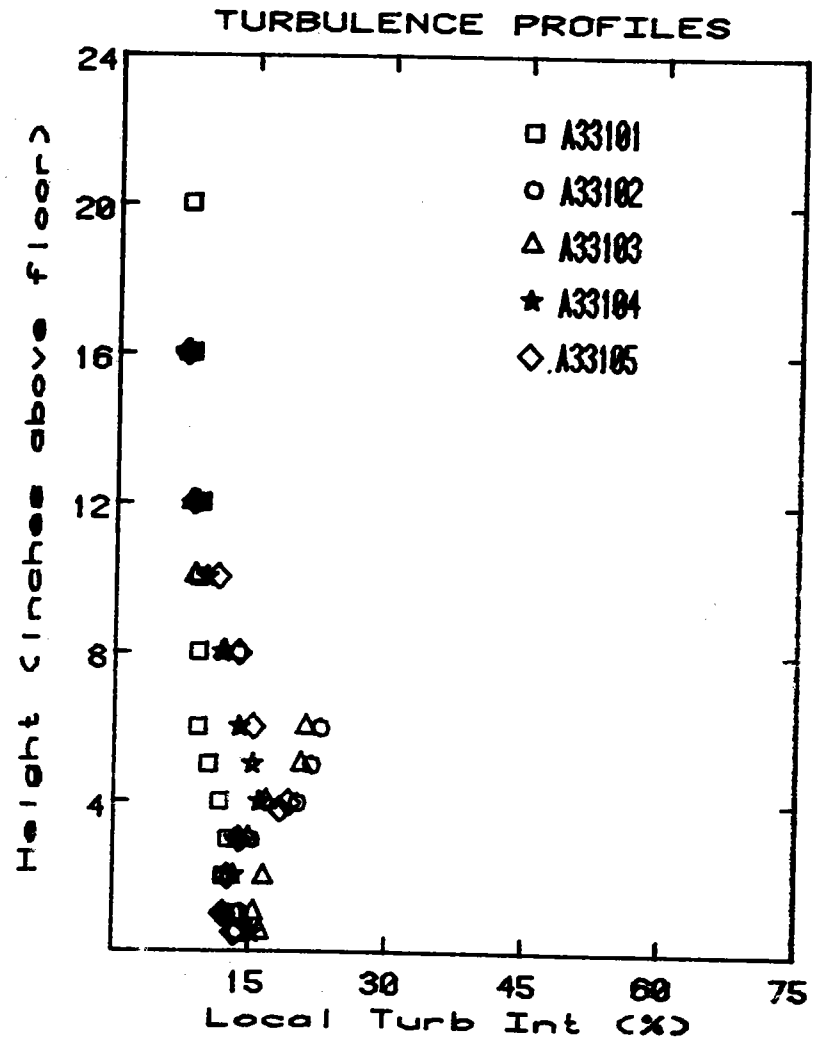
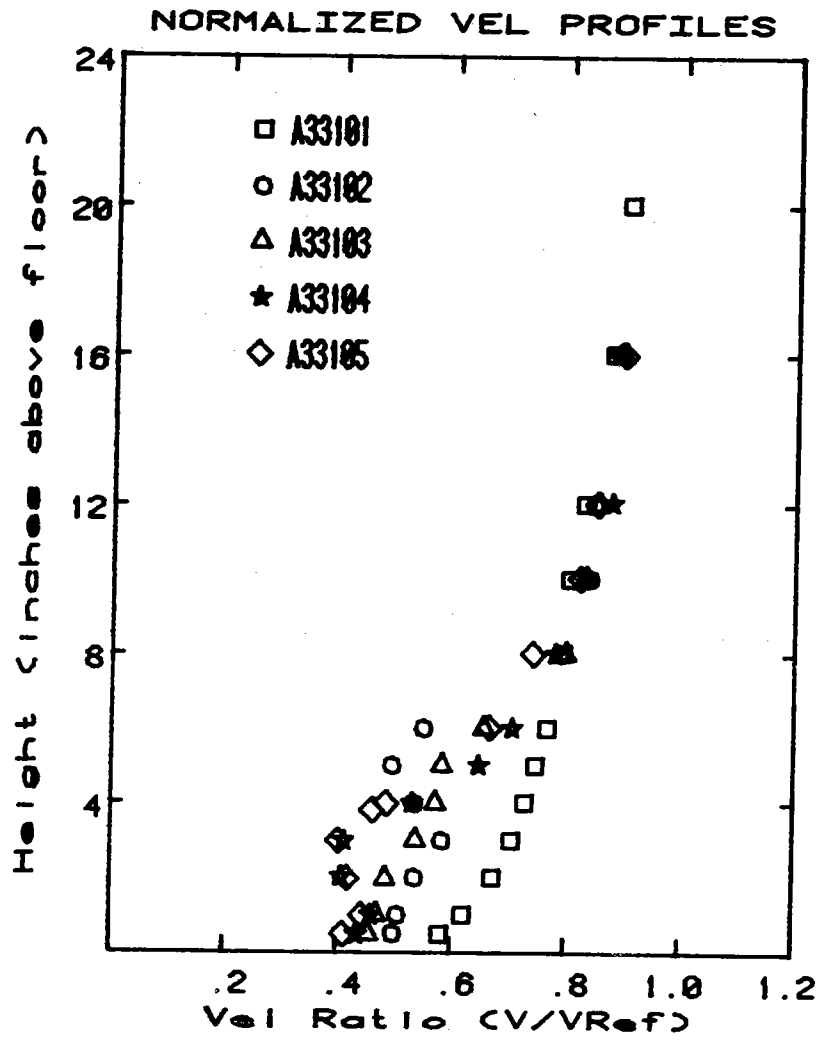
Graph # 65



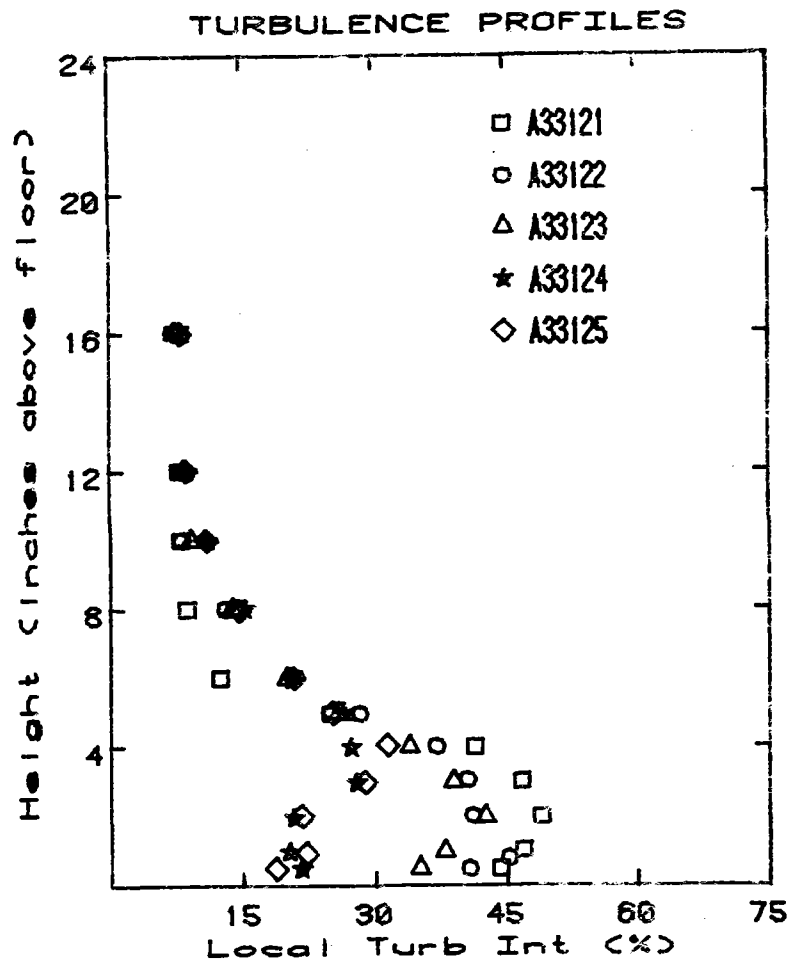
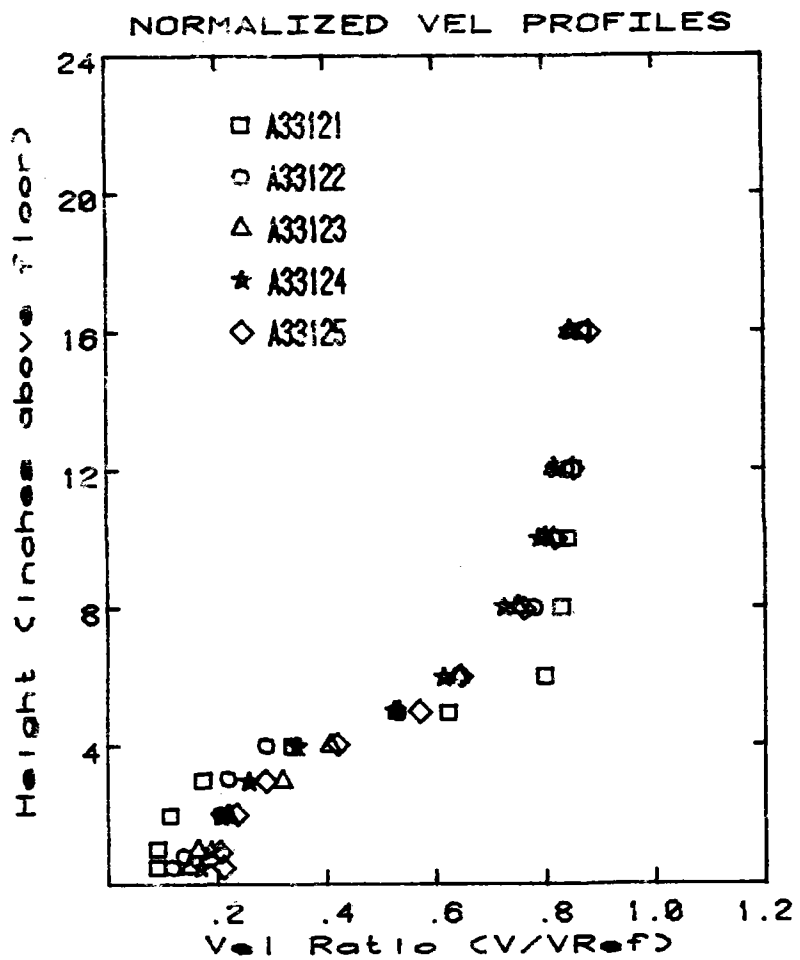
Graph # 66



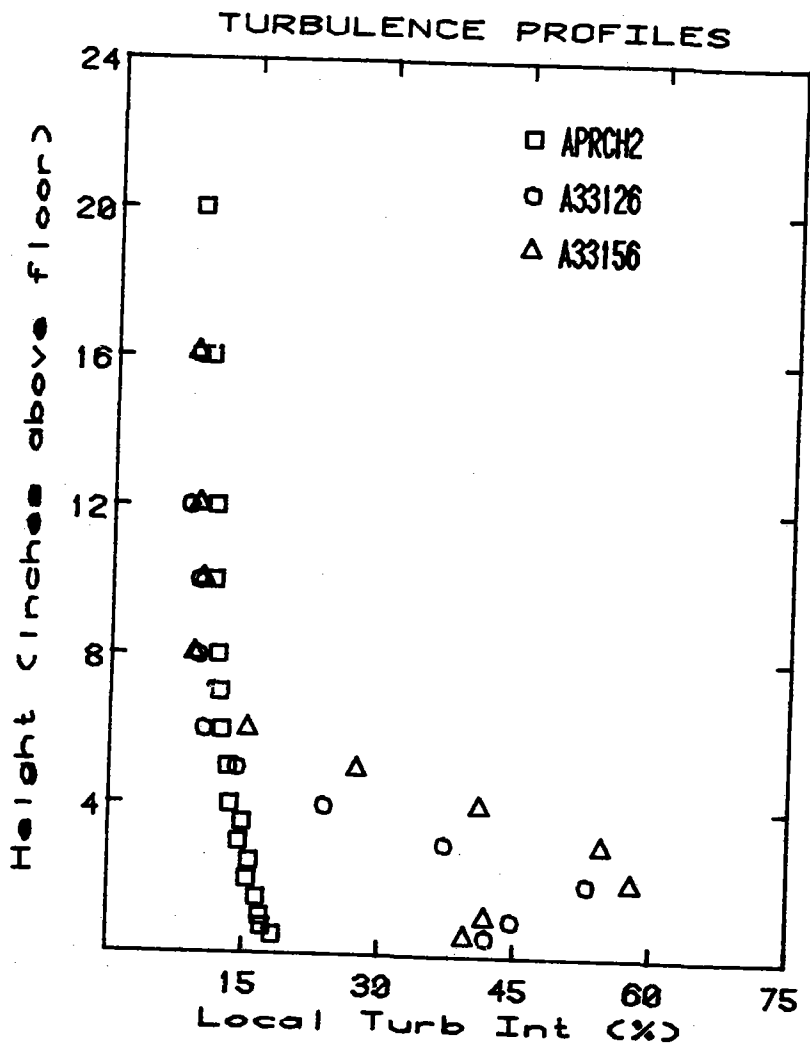
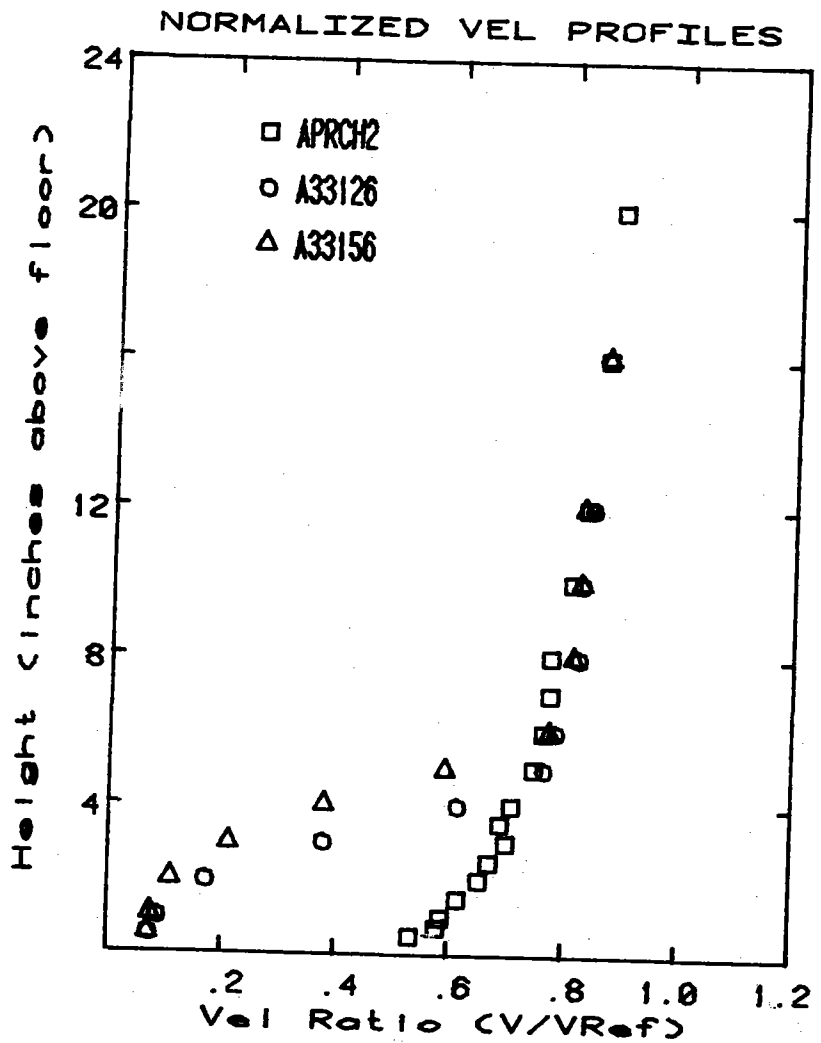
Graph # 67



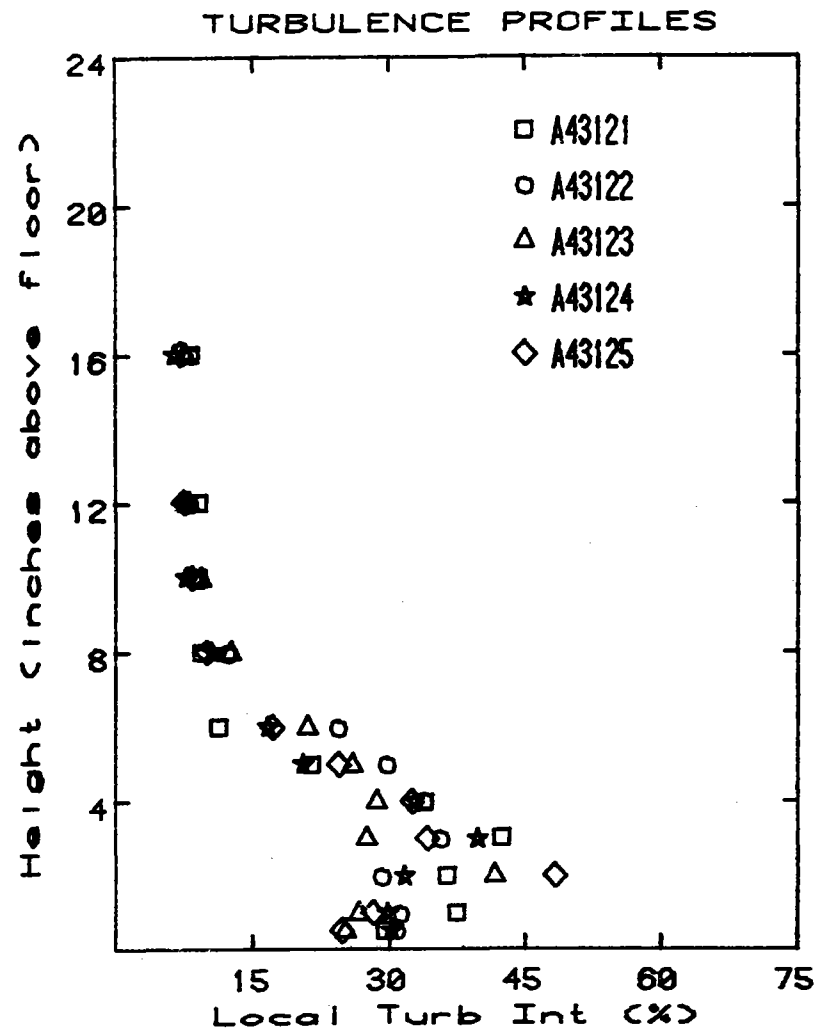
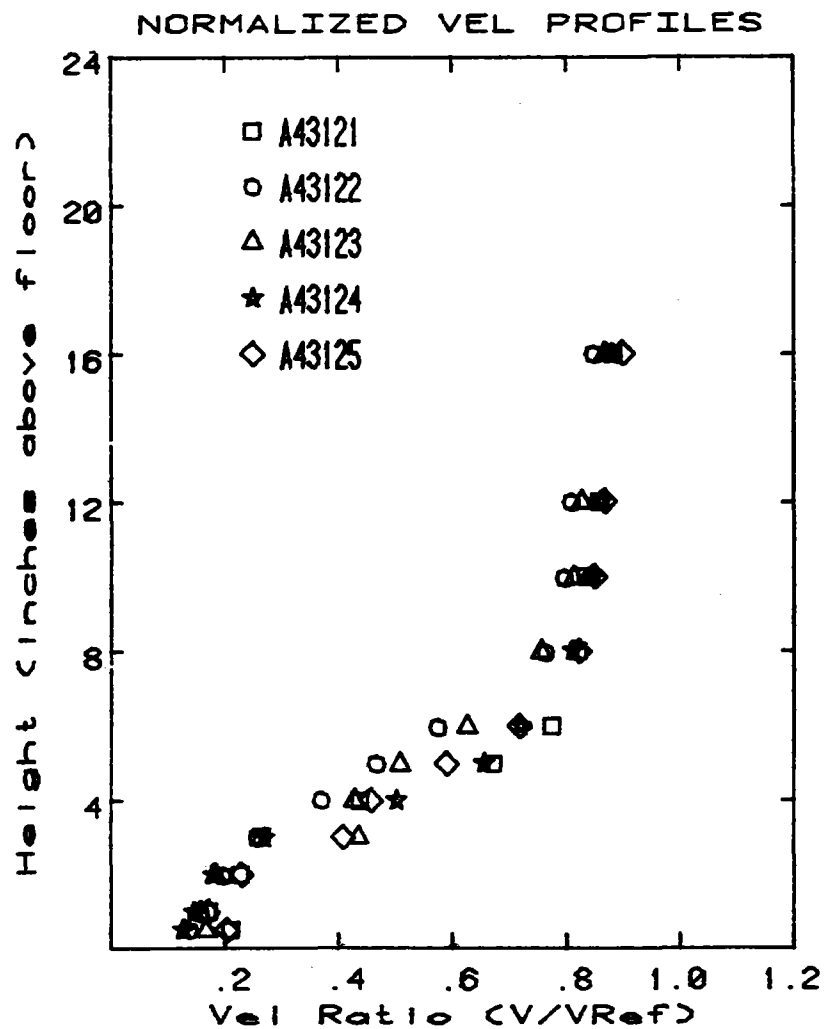
Graph # 68



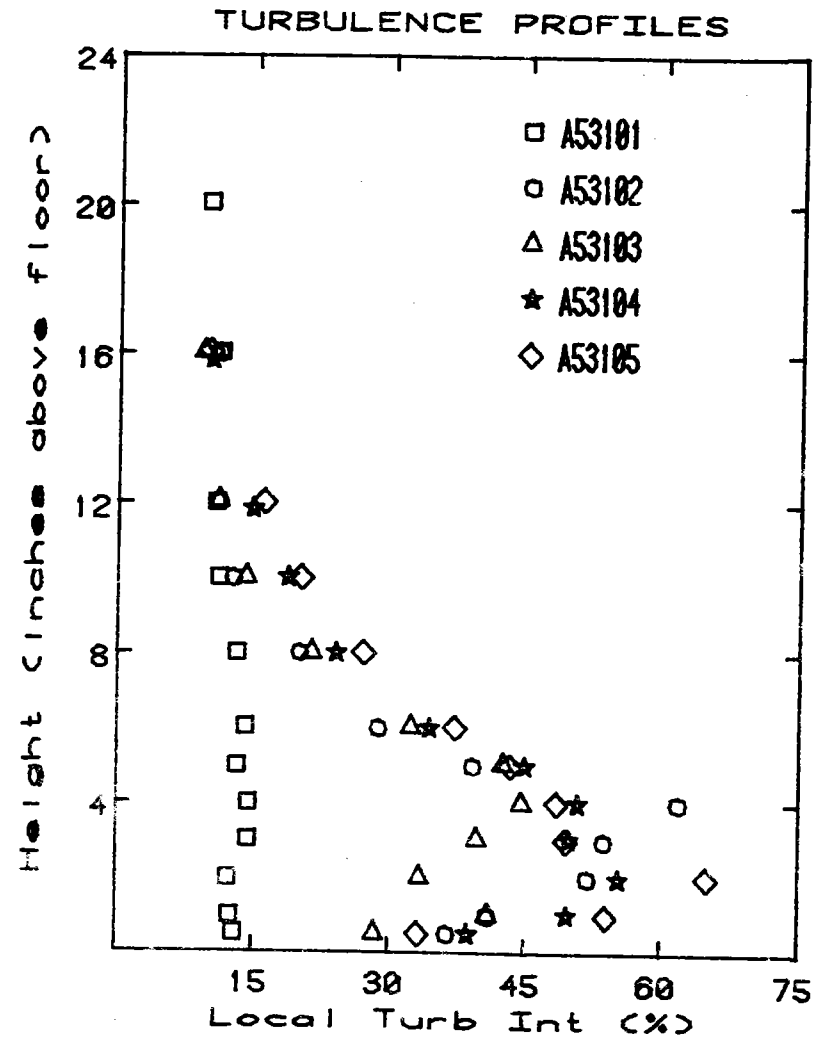
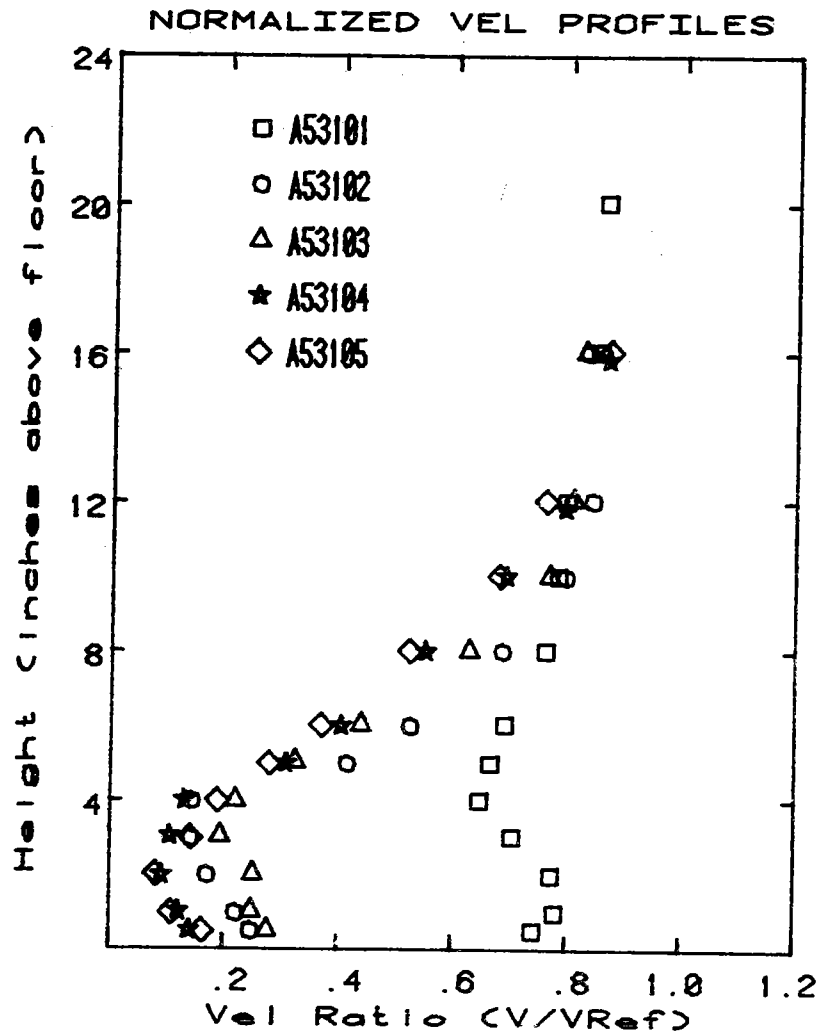
Graph # 69



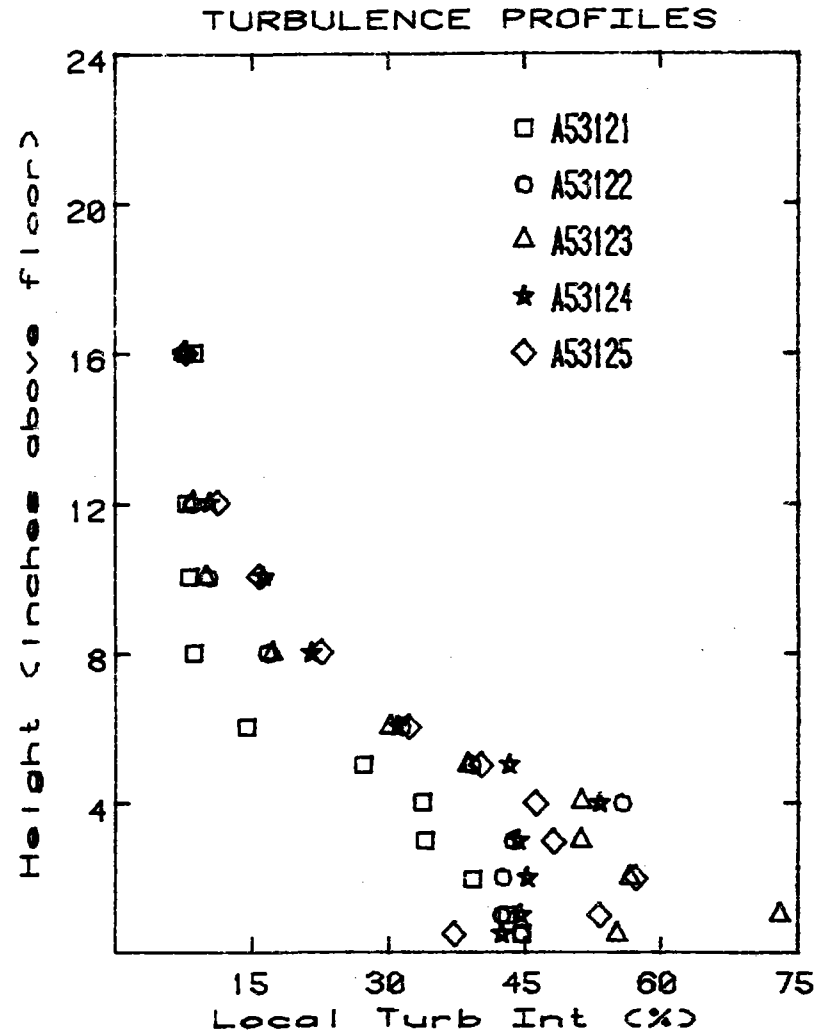
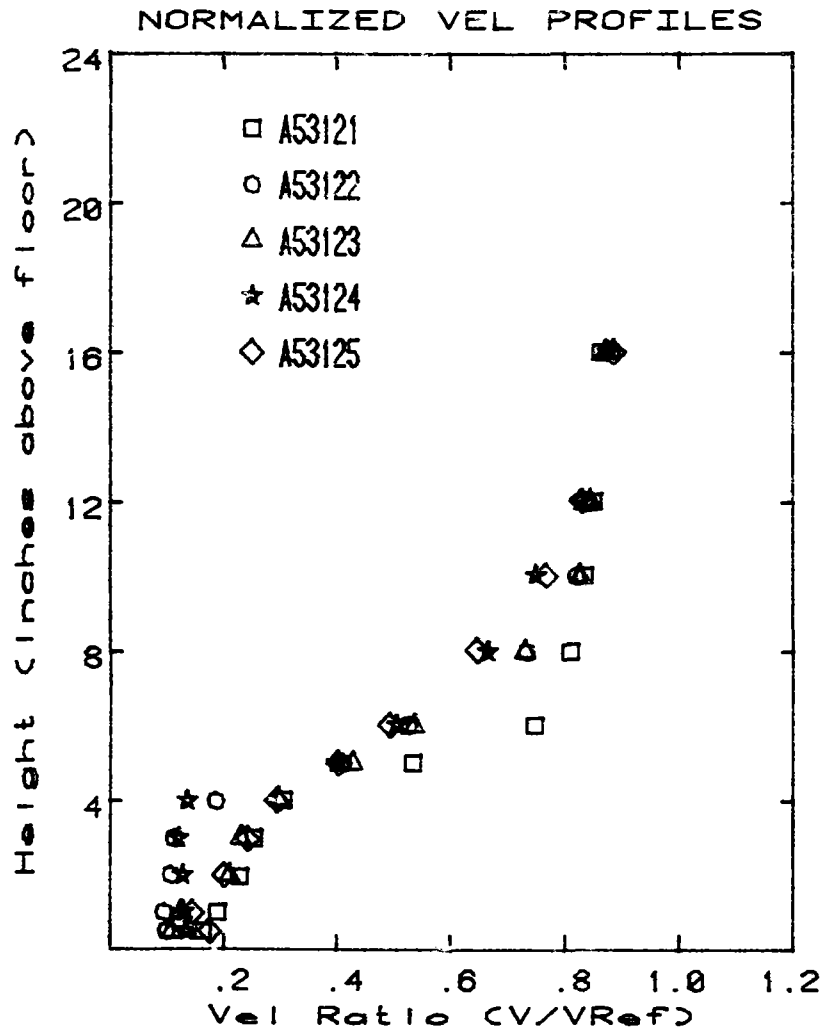
Graph # 70



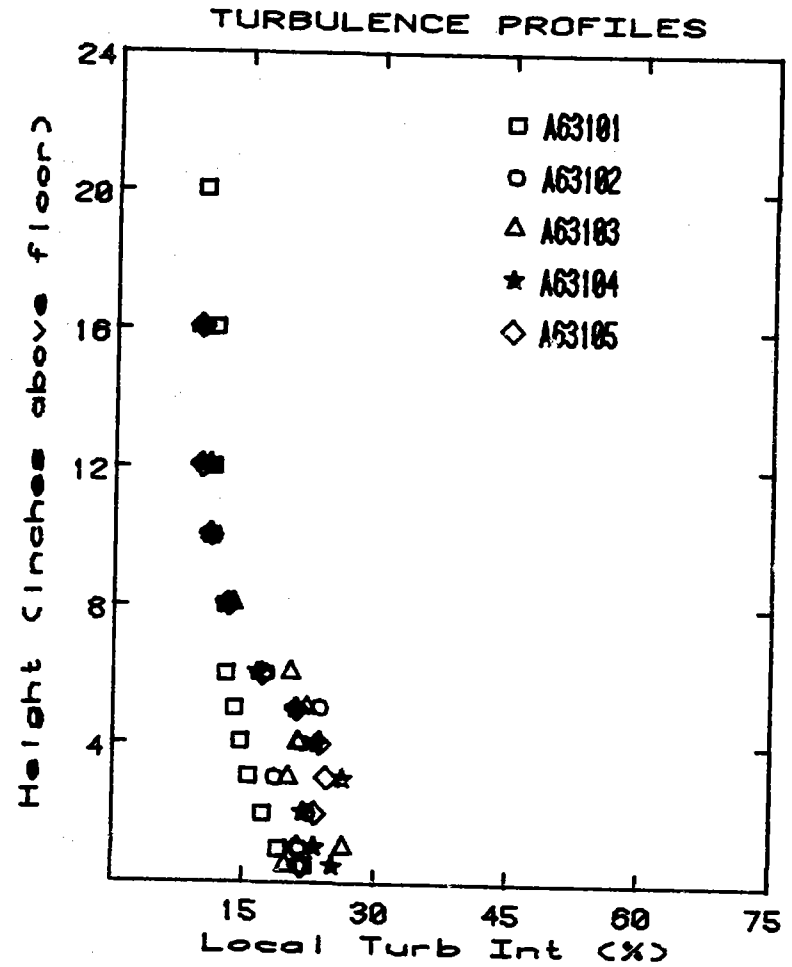
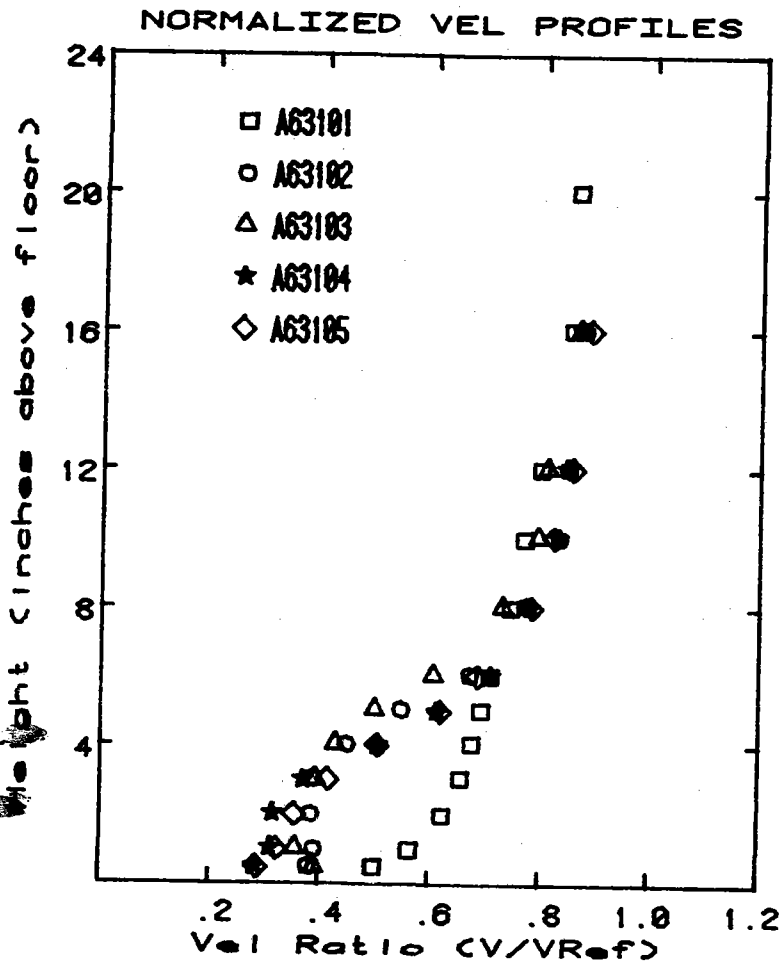
Graph # 71



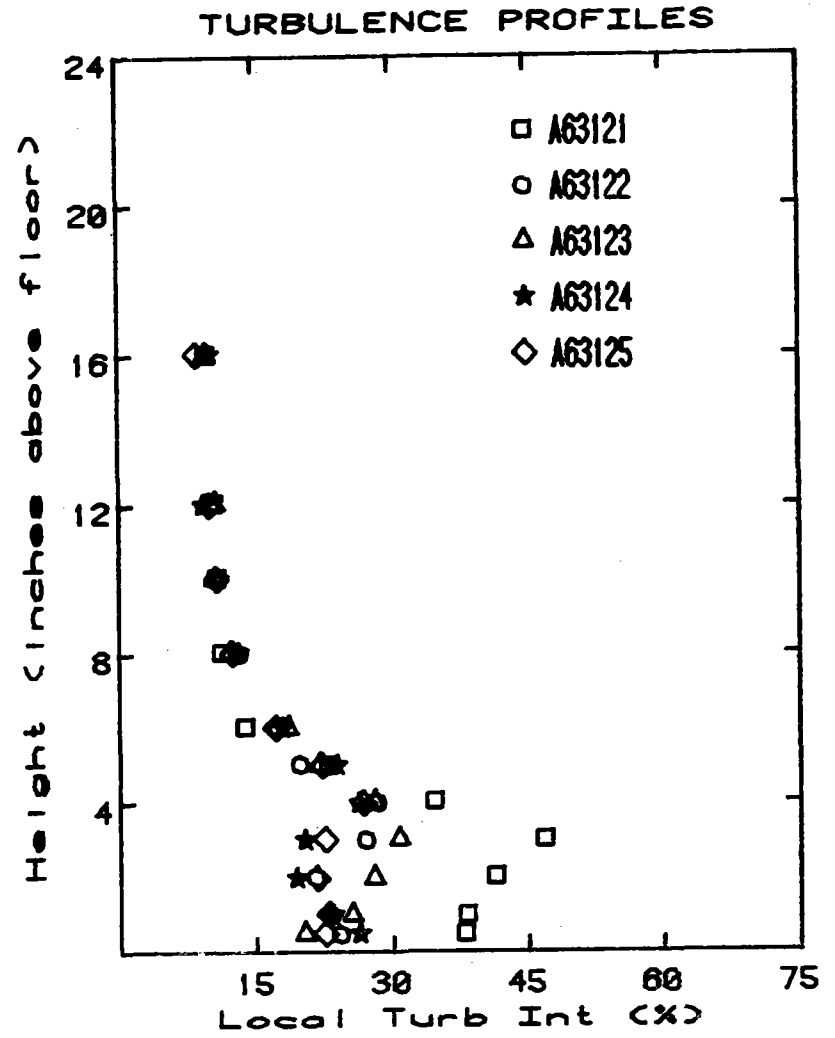
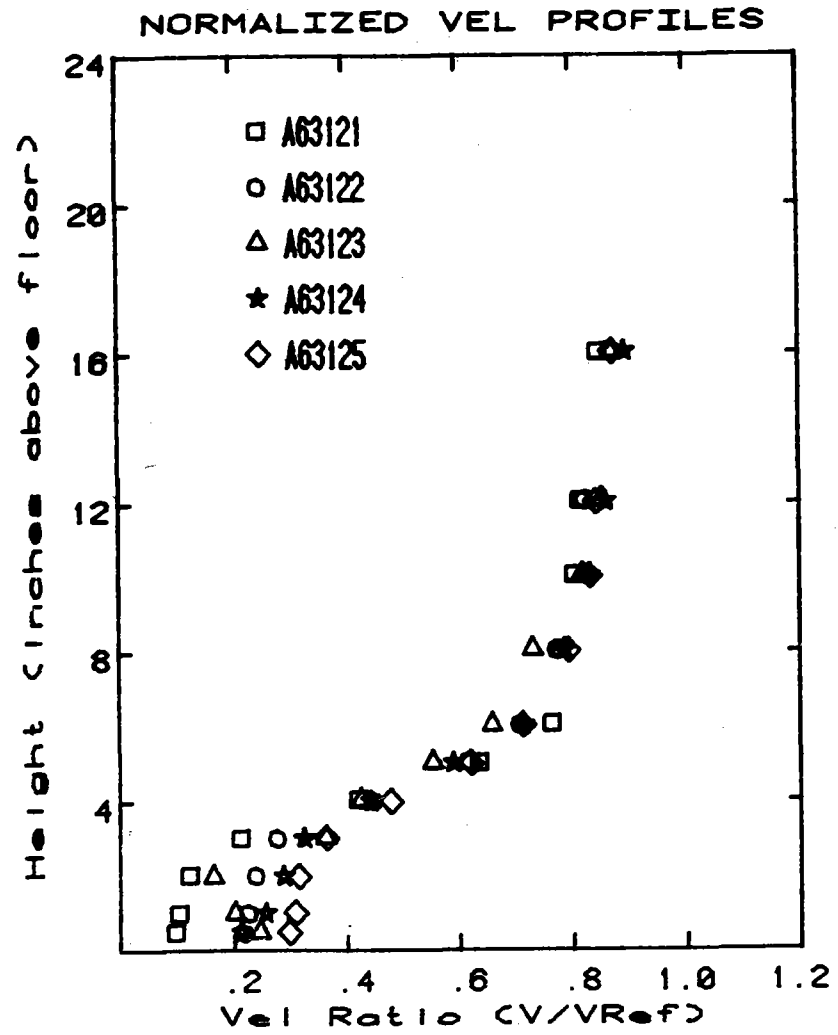
Graph # 72



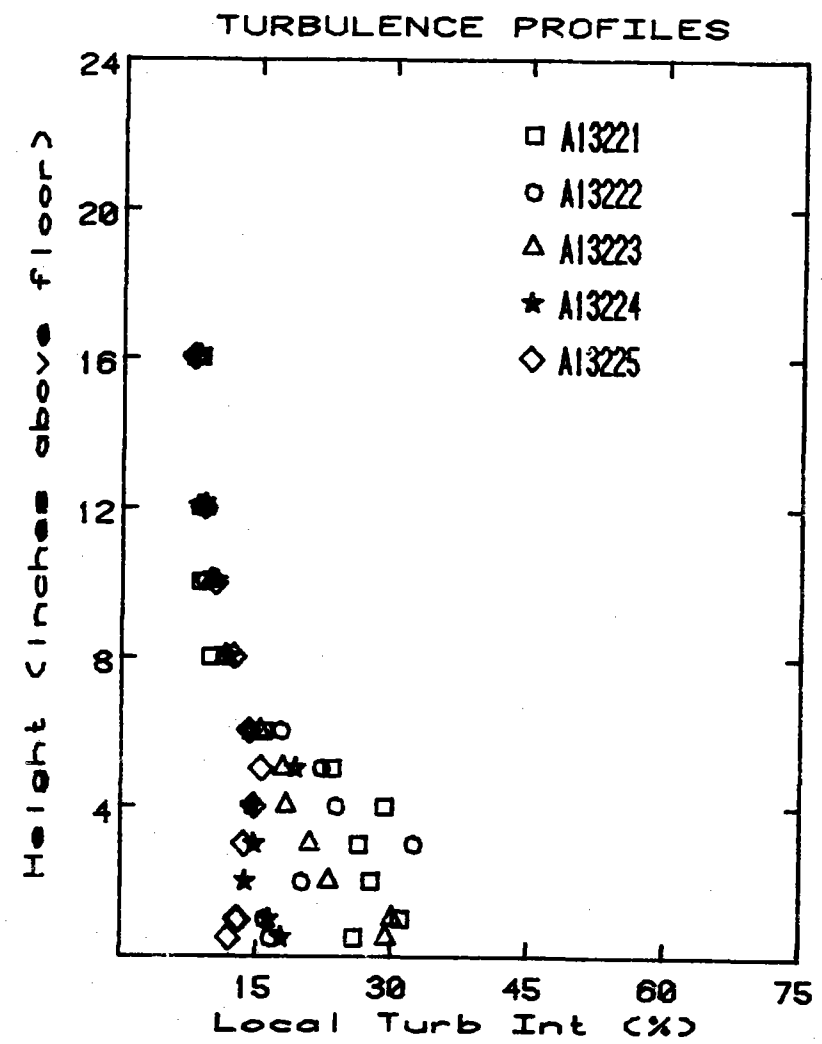
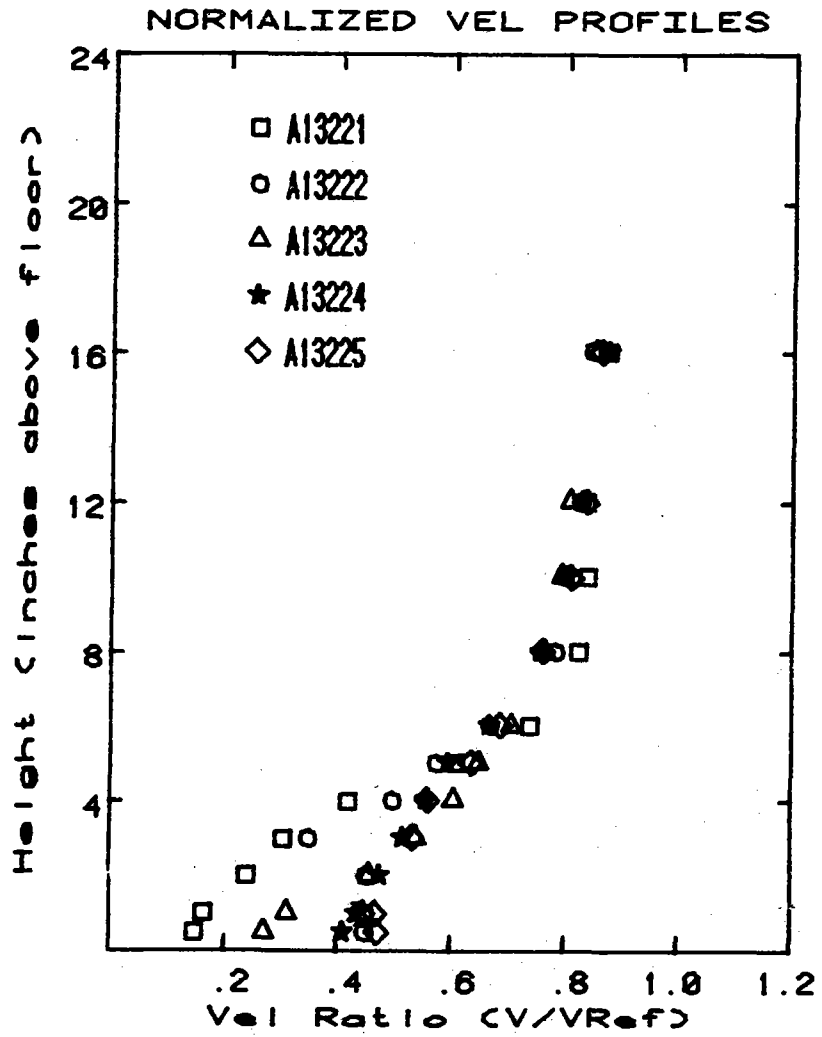
Graph # 73



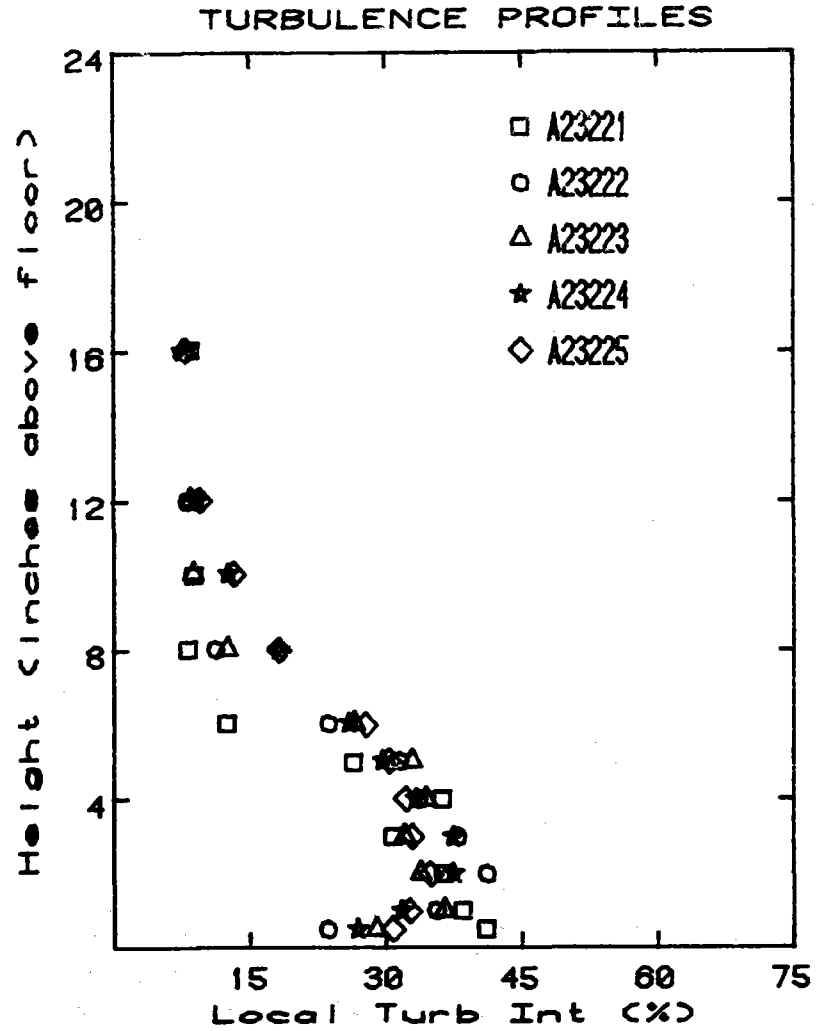
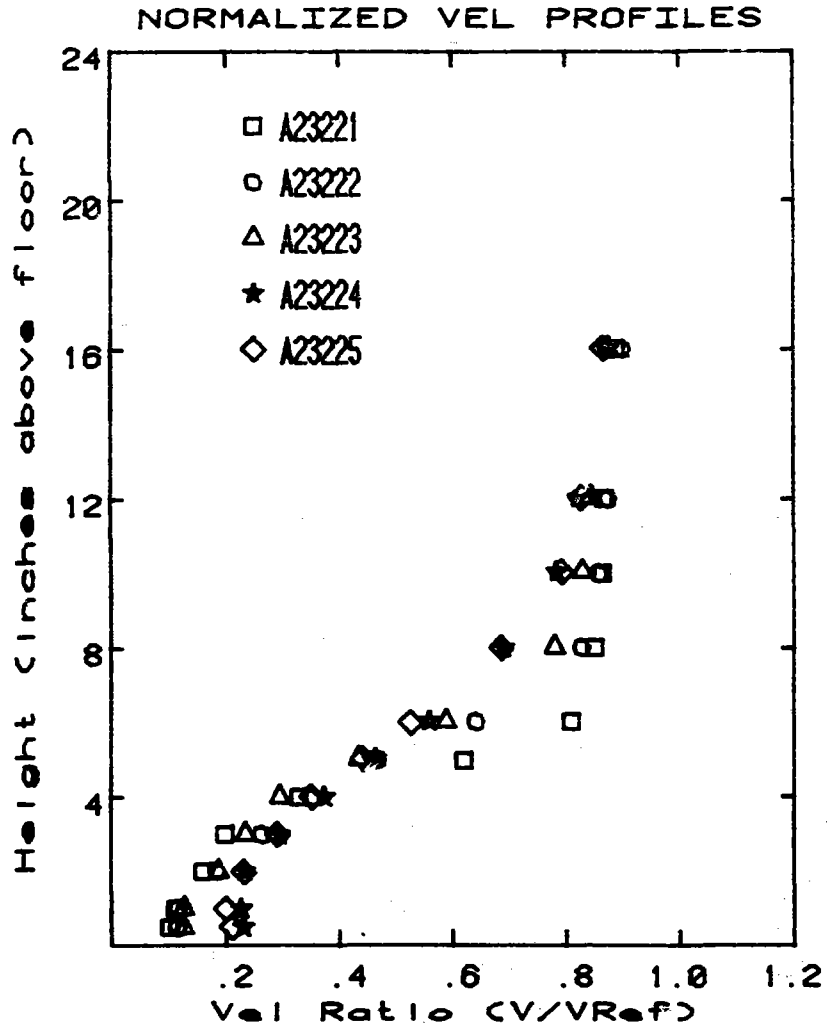
Graph # 74



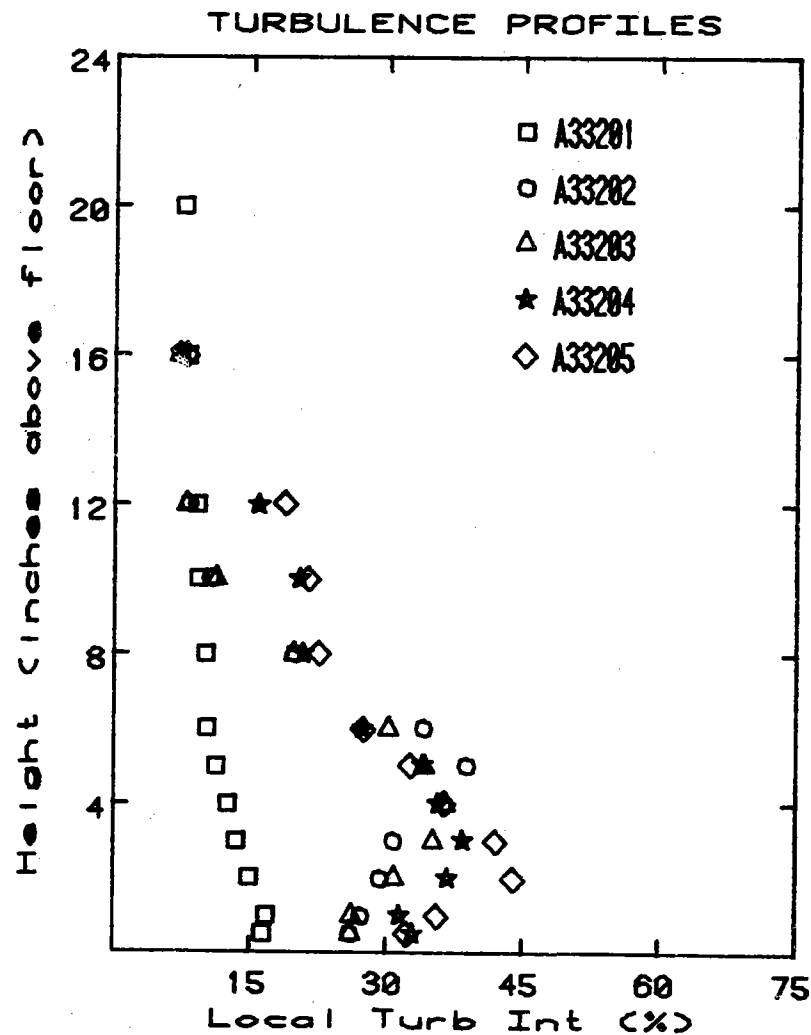
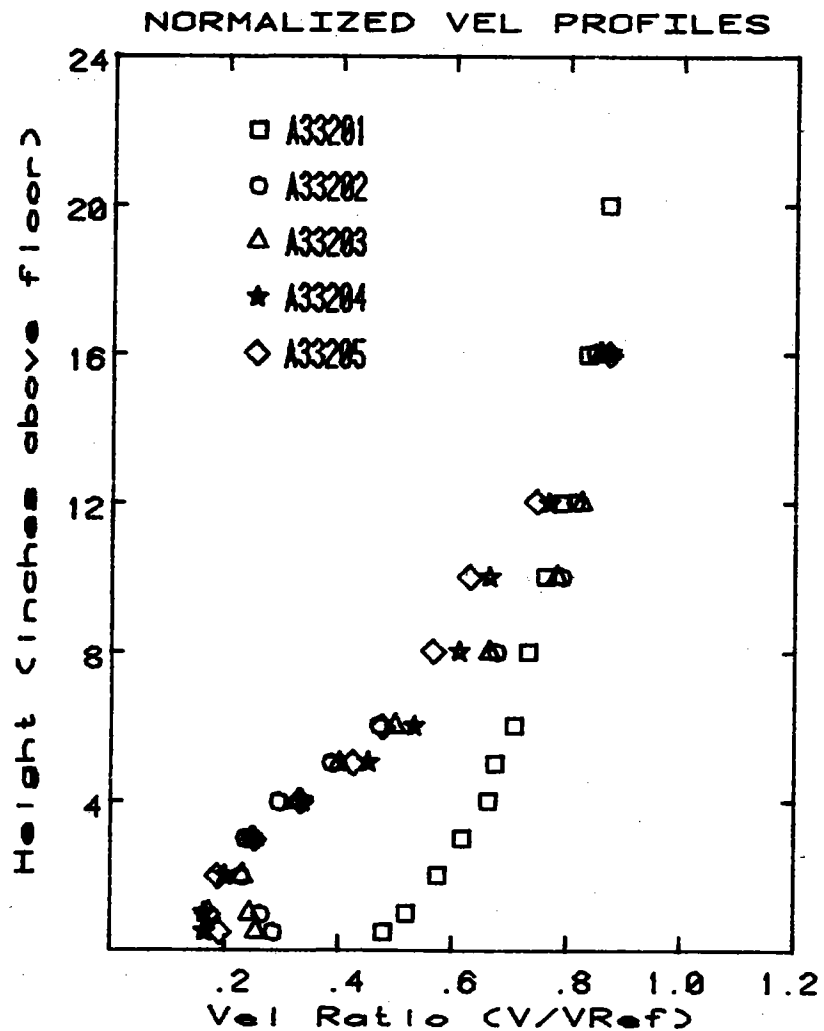
Graph # 75



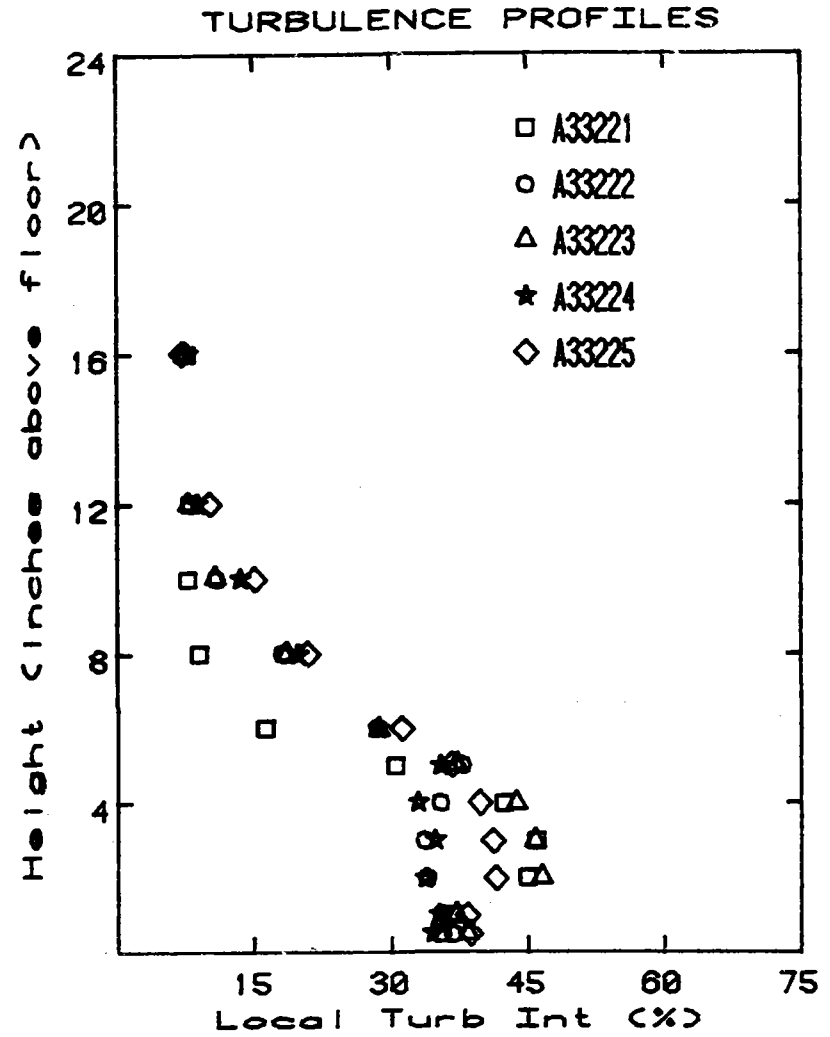
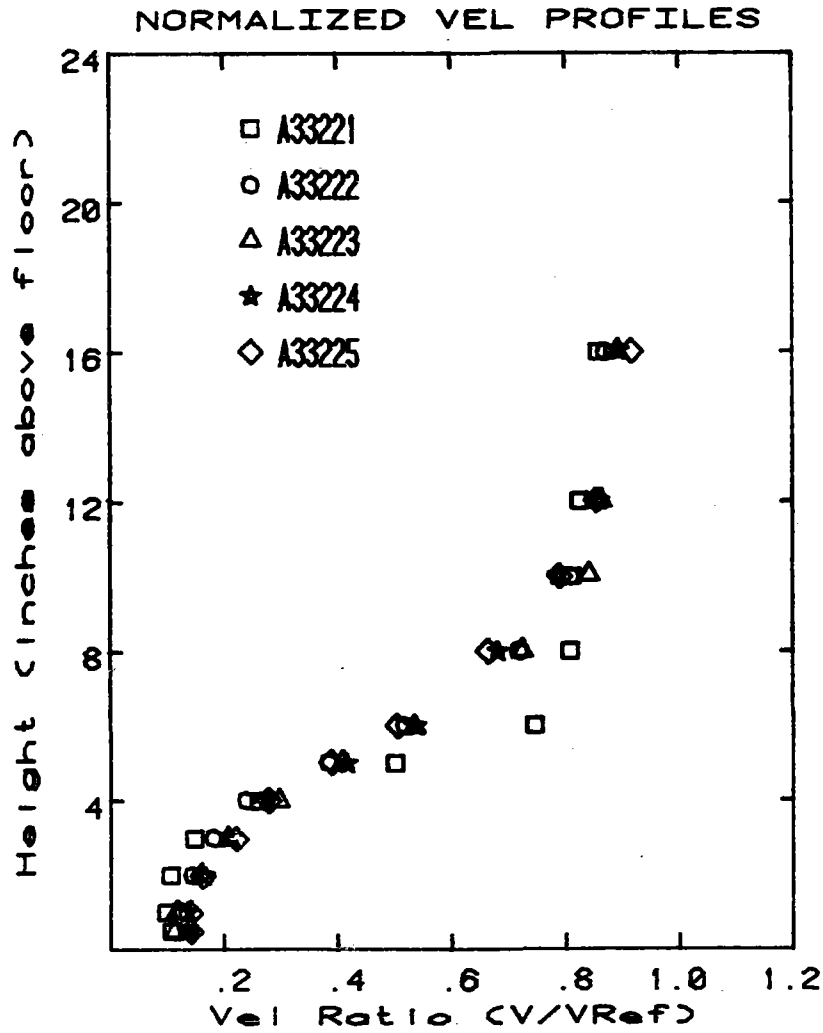
Graph # 76



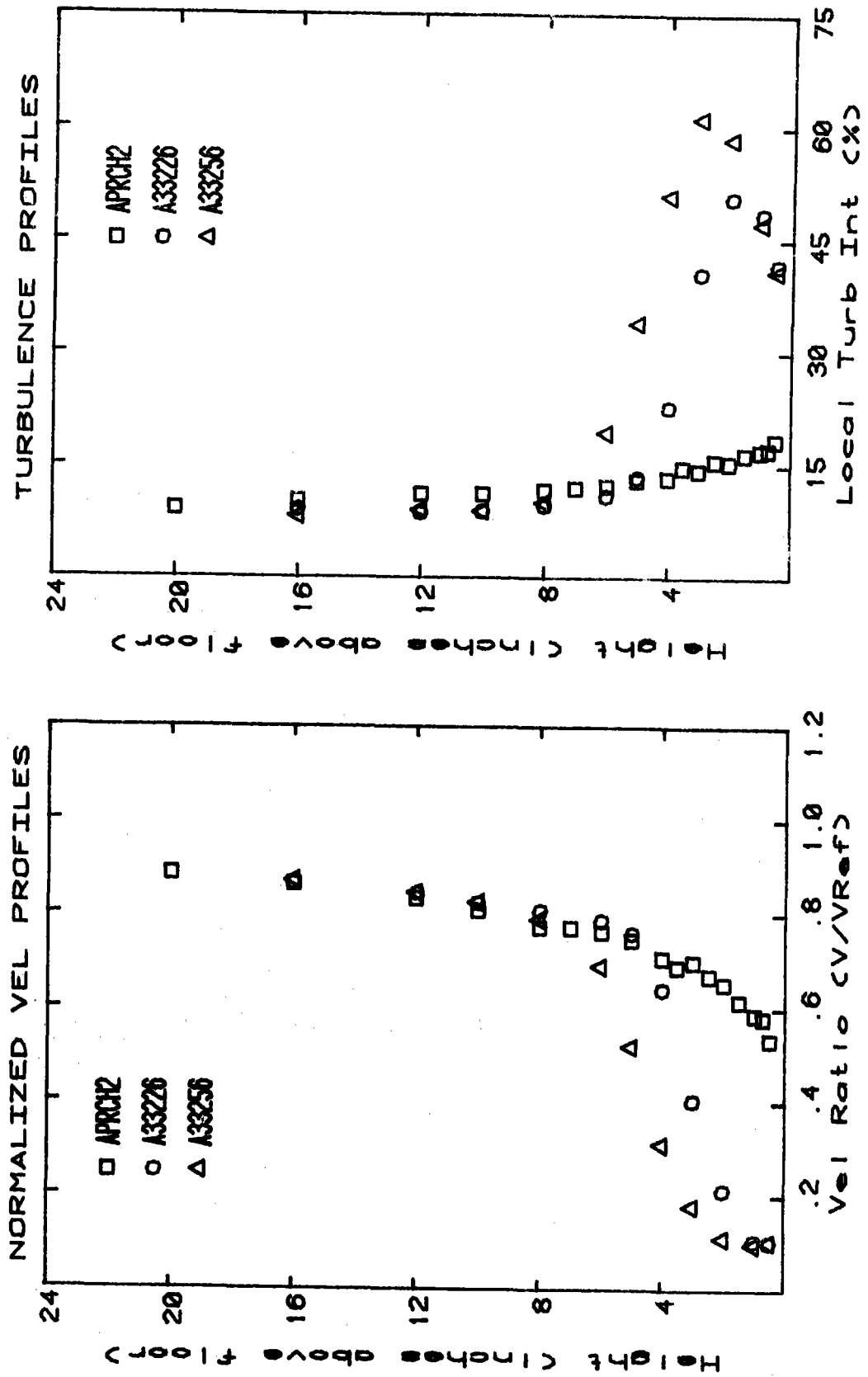
Graph # 77



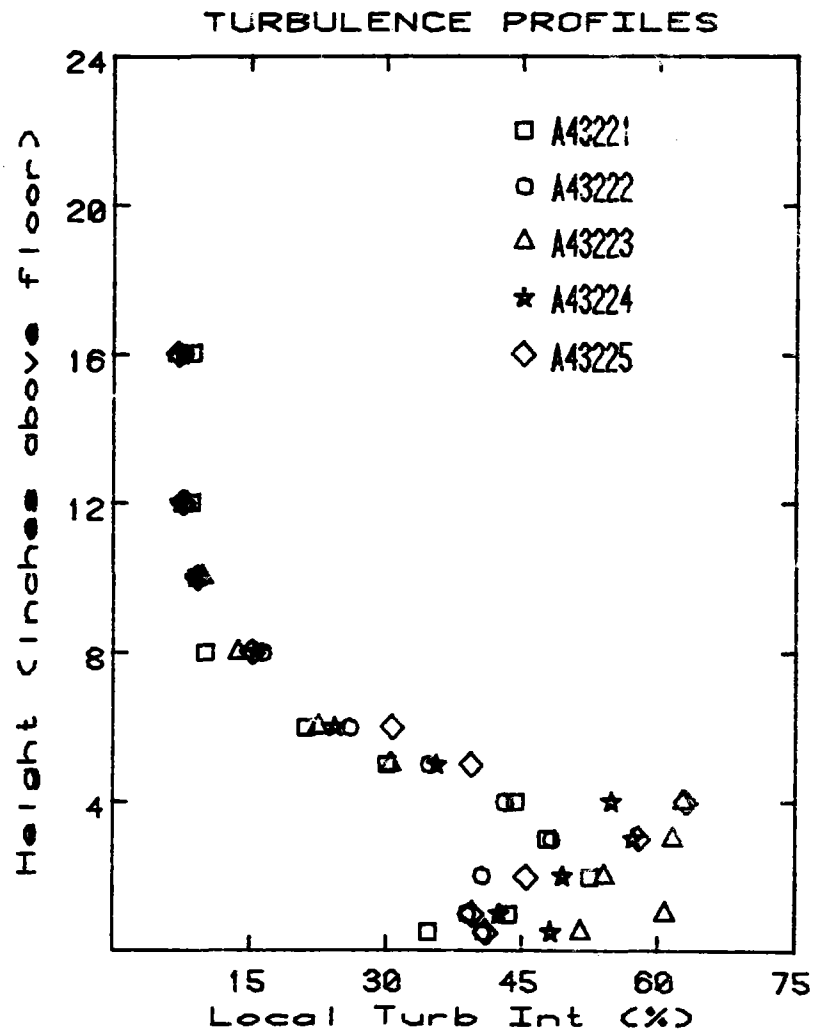
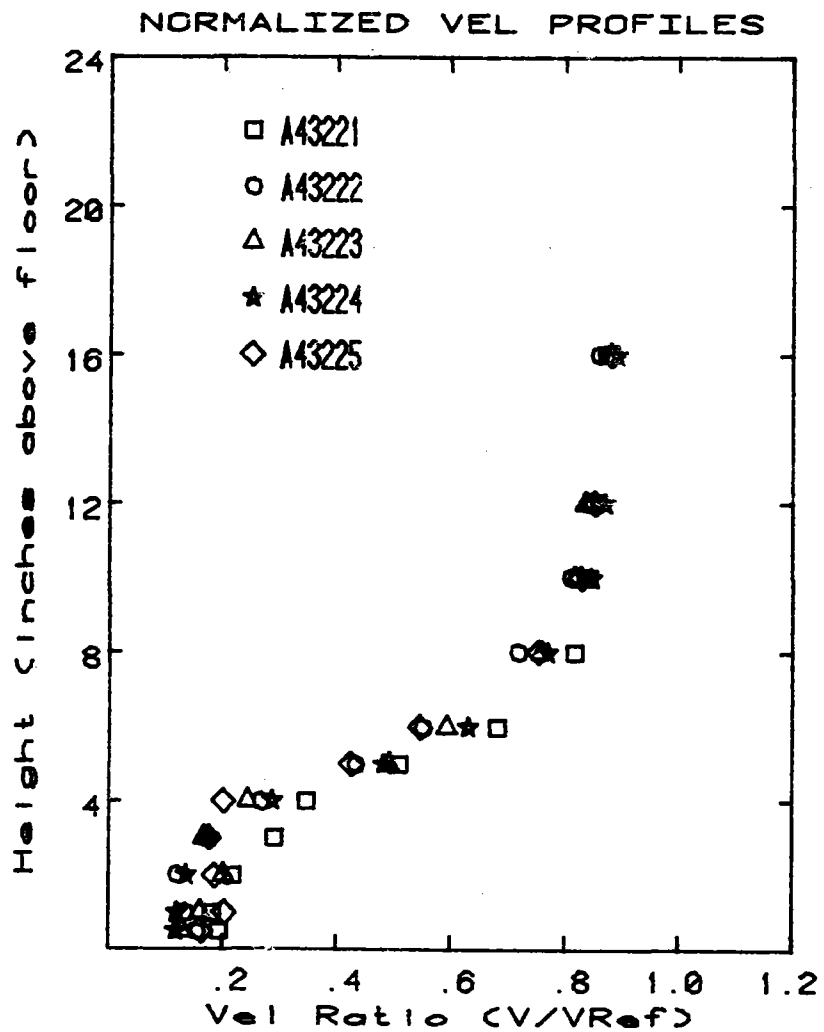
Graph # 78



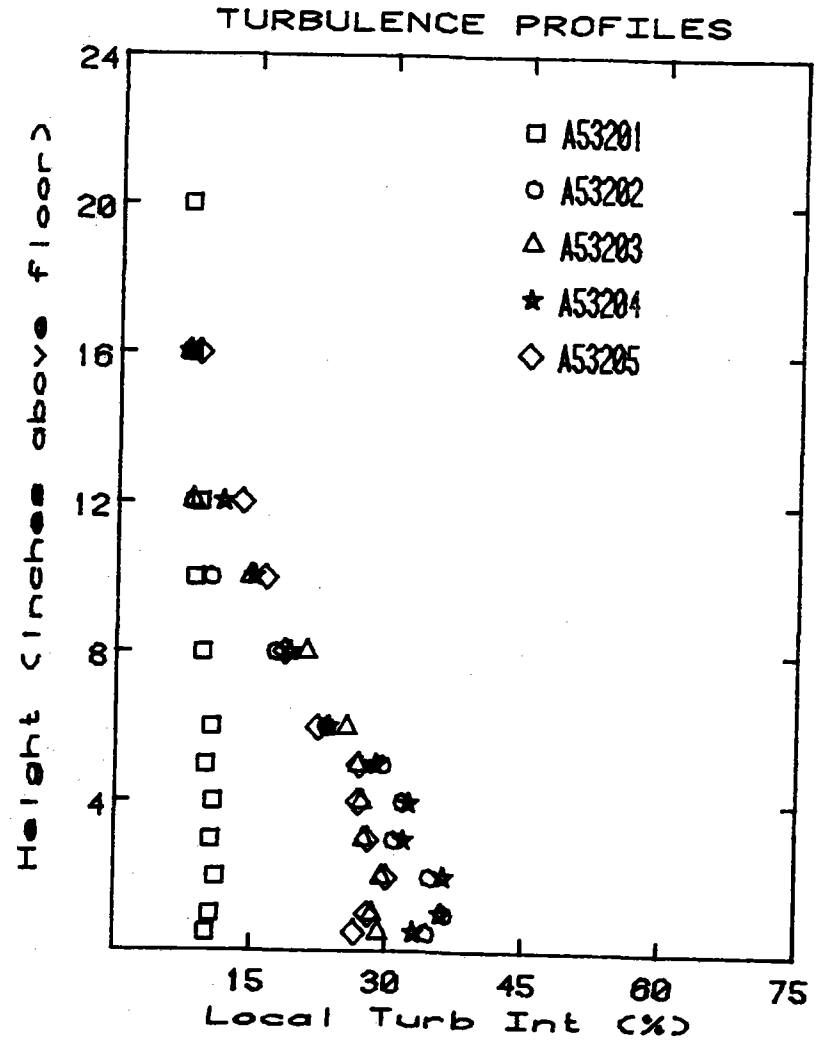
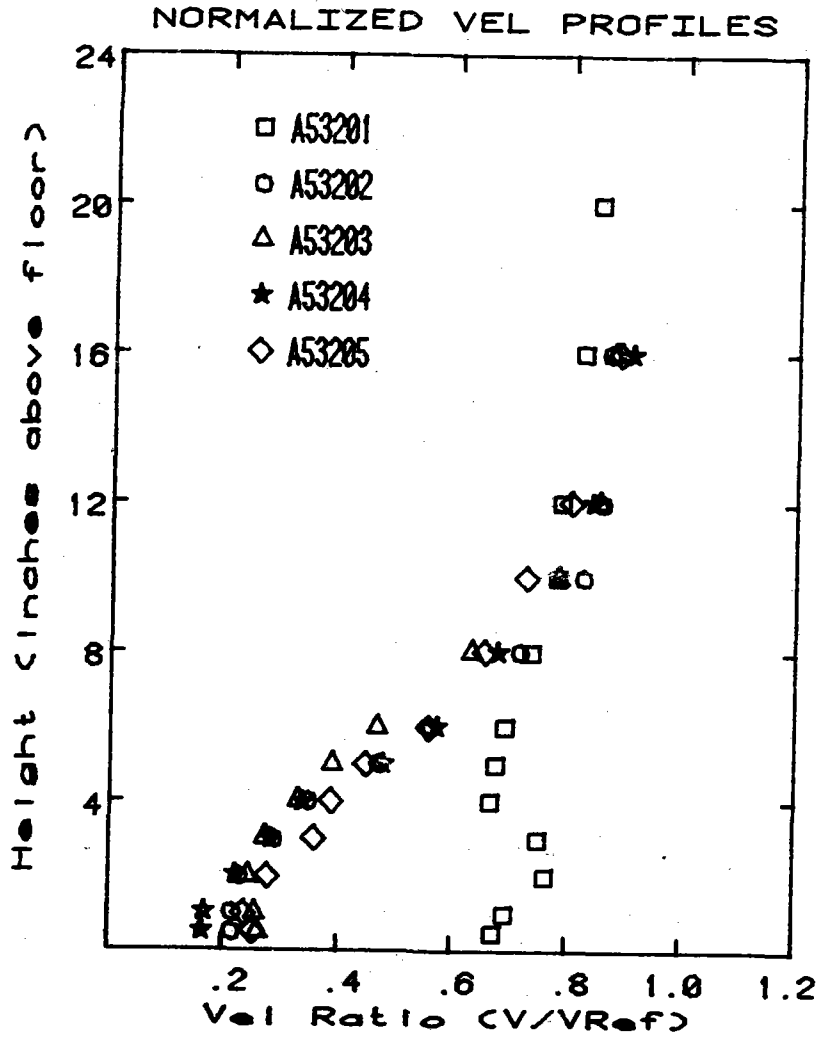
Graph # 79



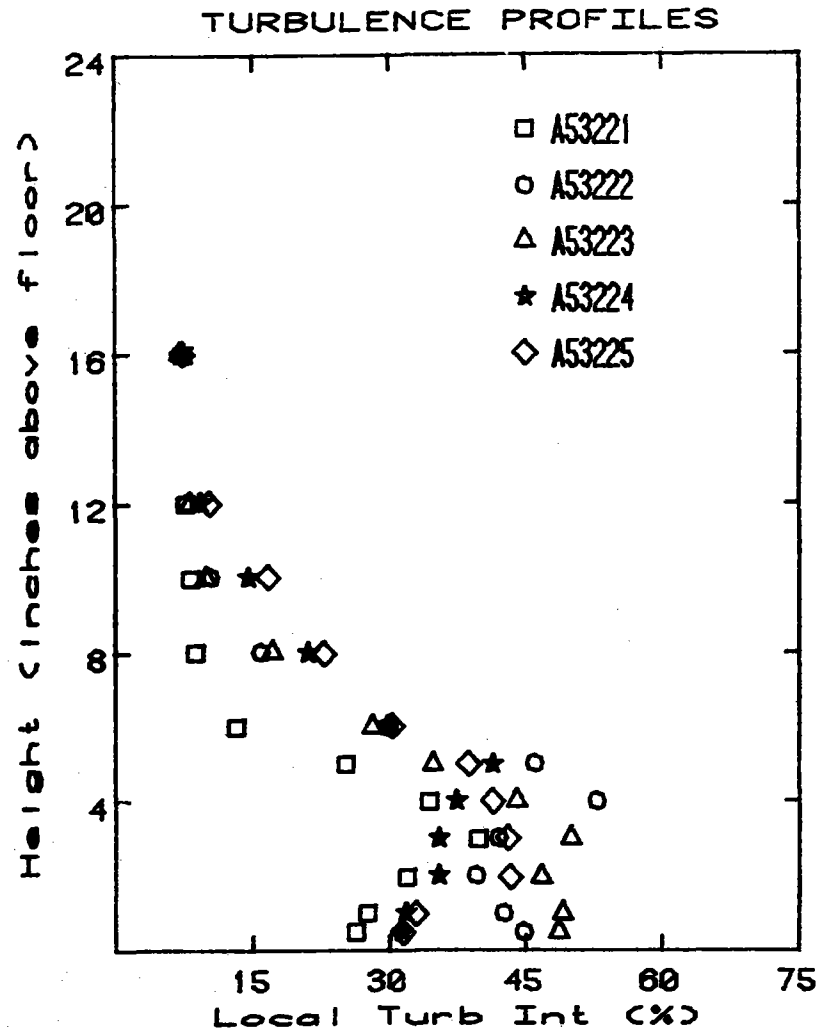
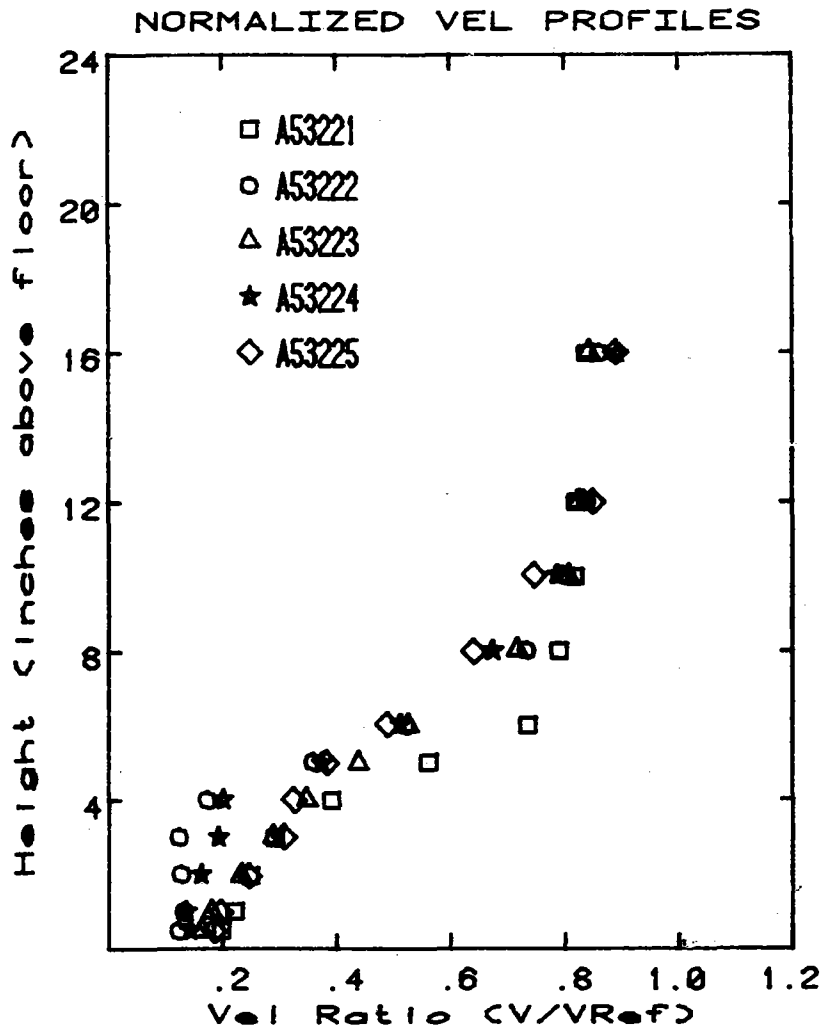
Graph # 80



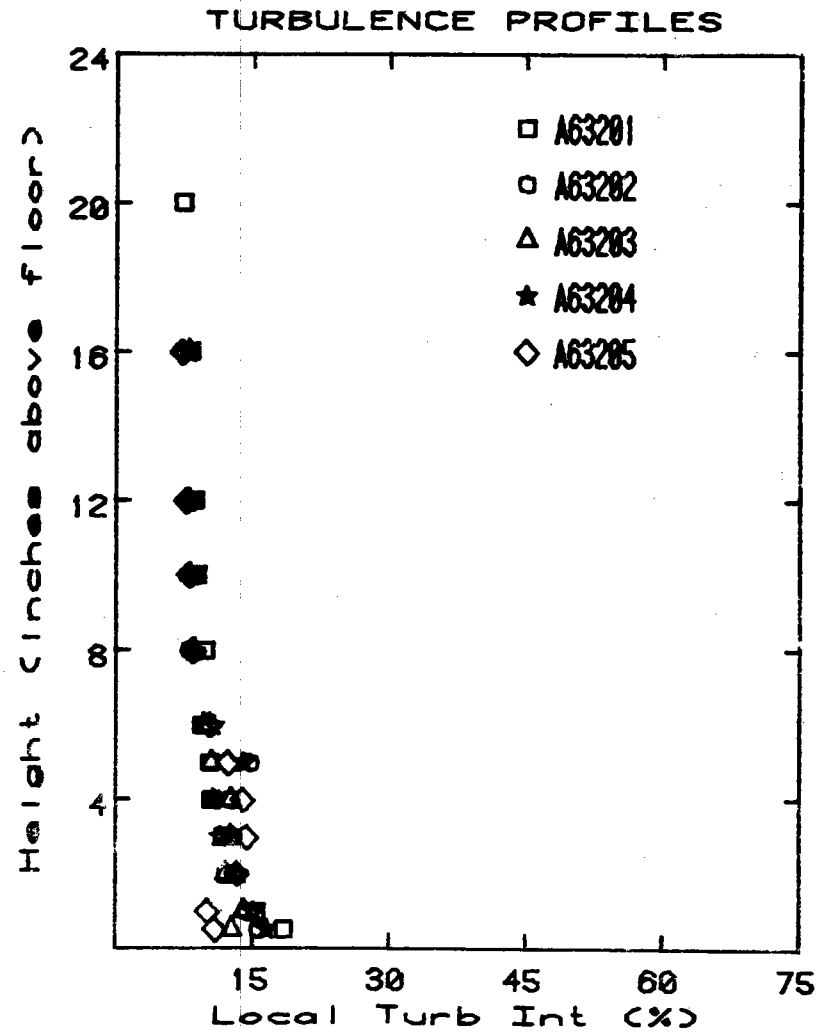
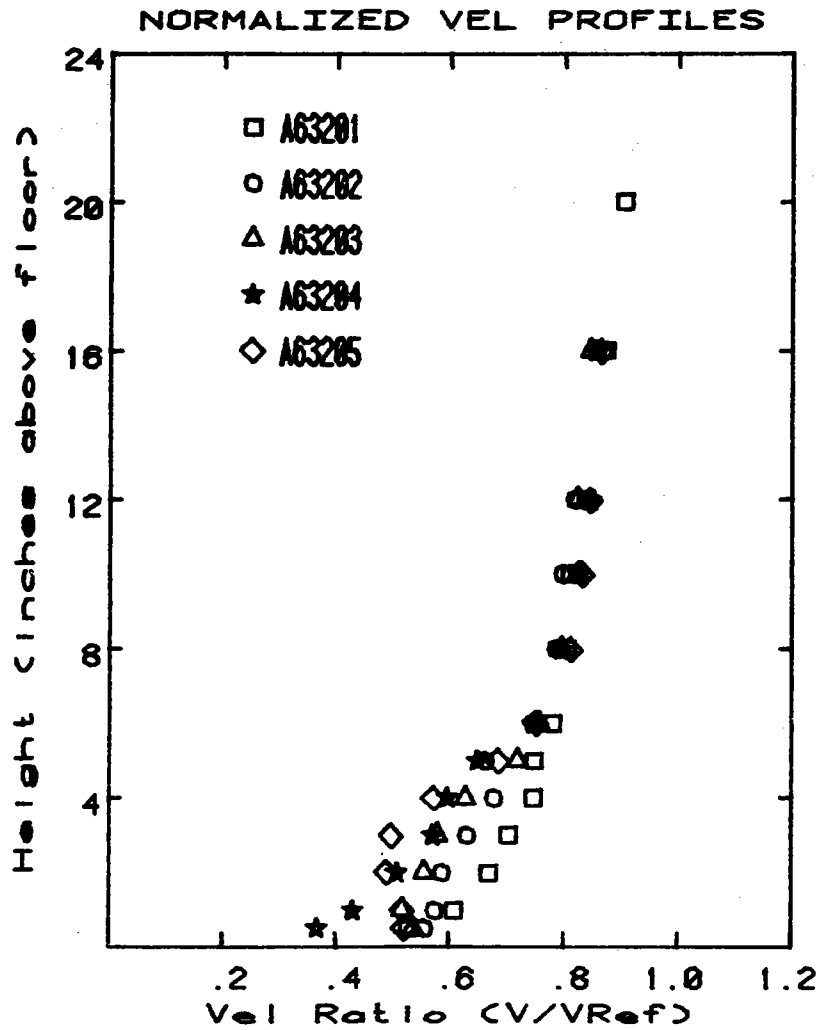
Graph # 81



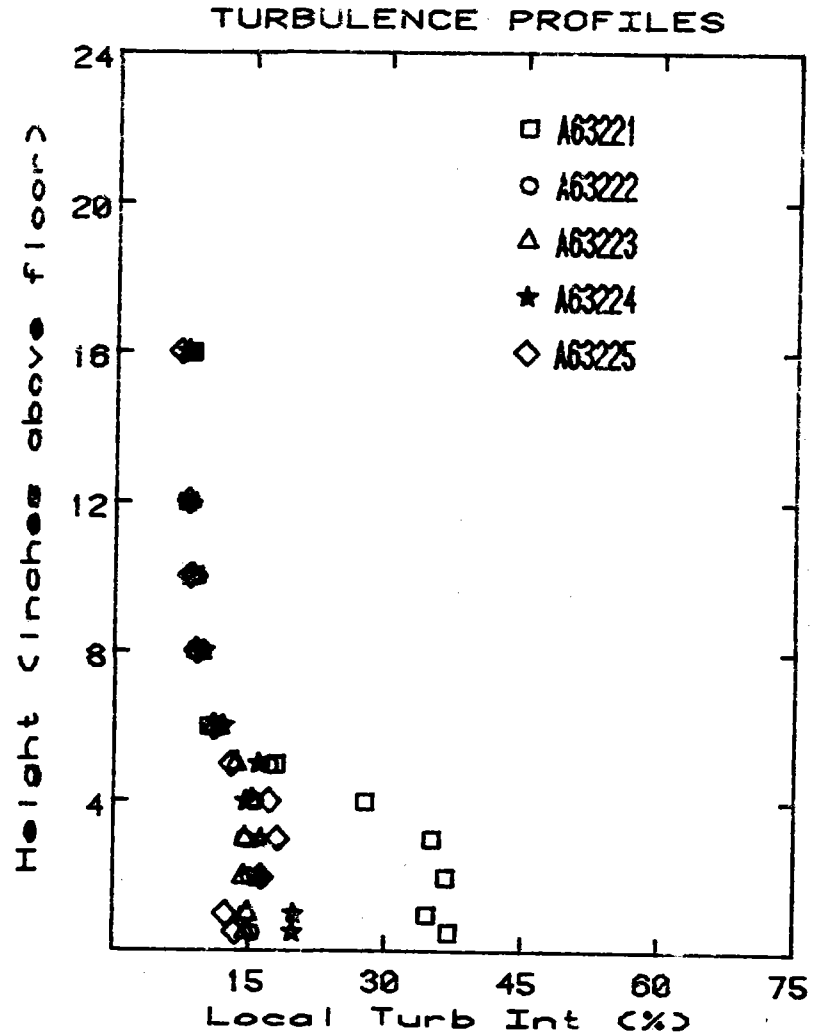
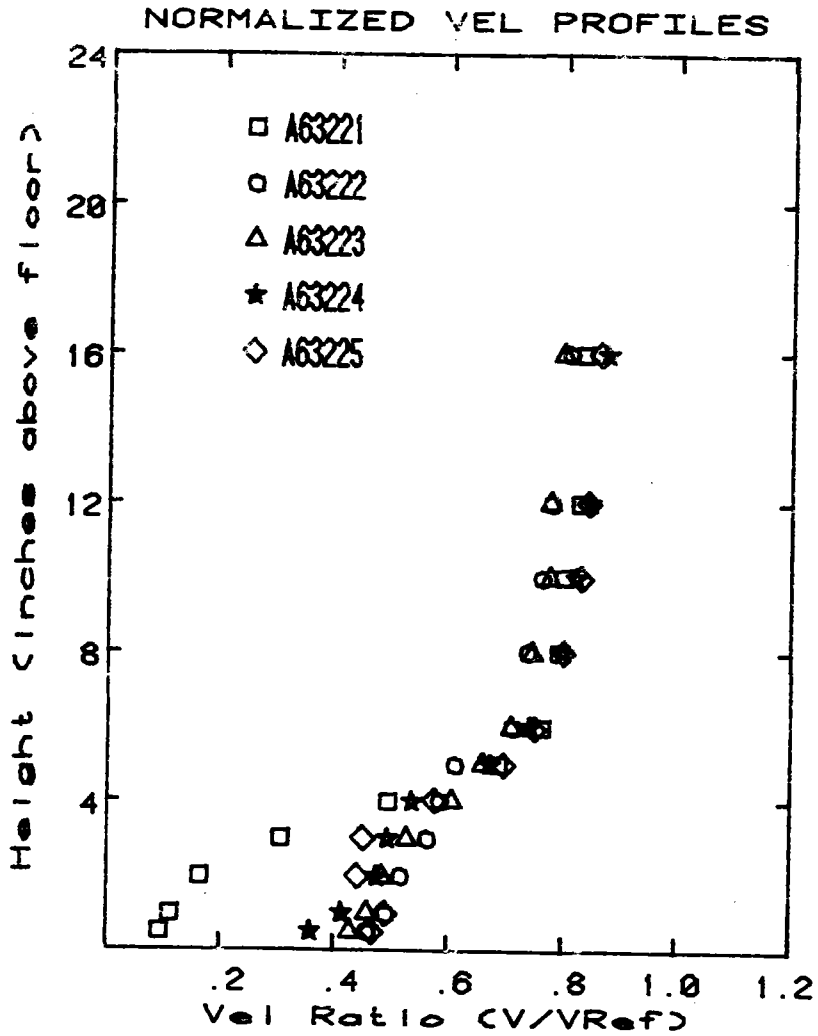
Graph # 82



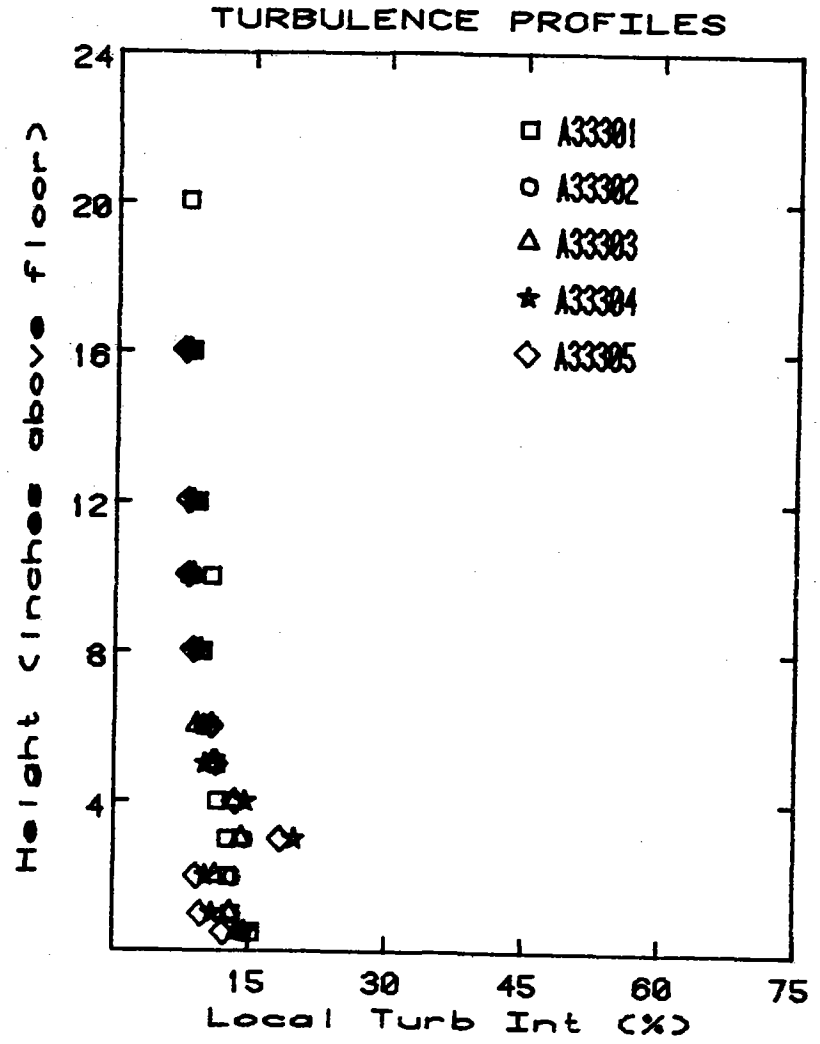
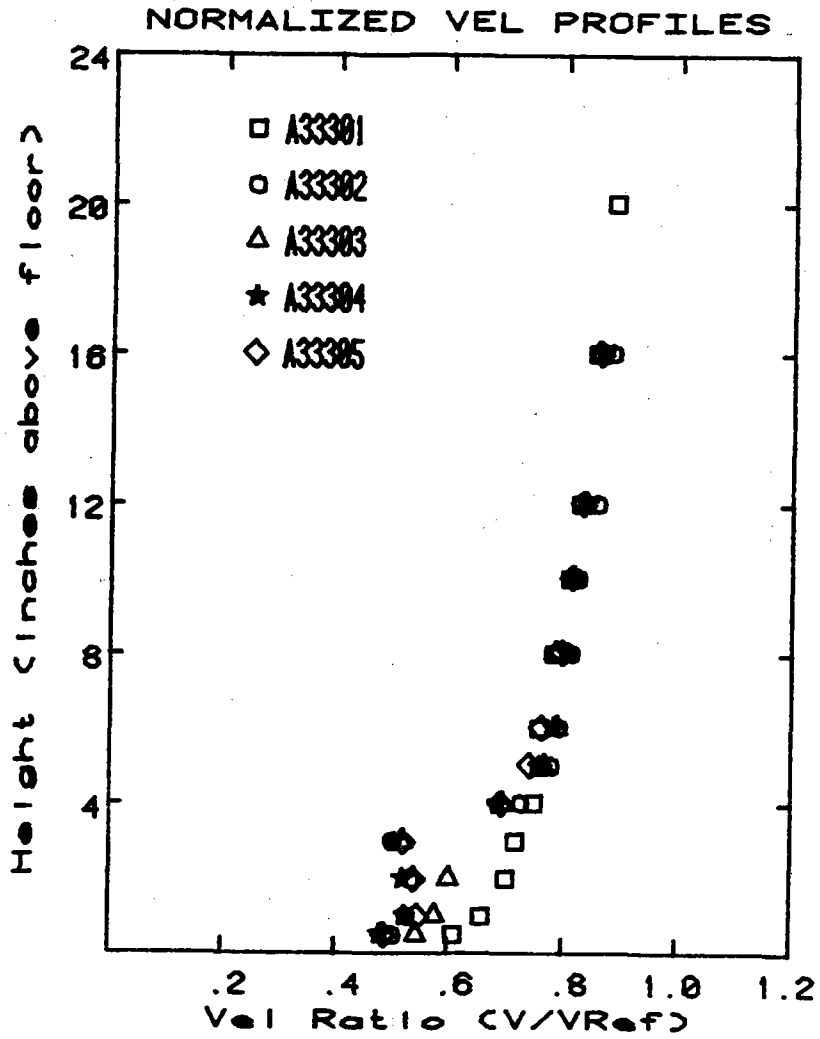
Graph # 83



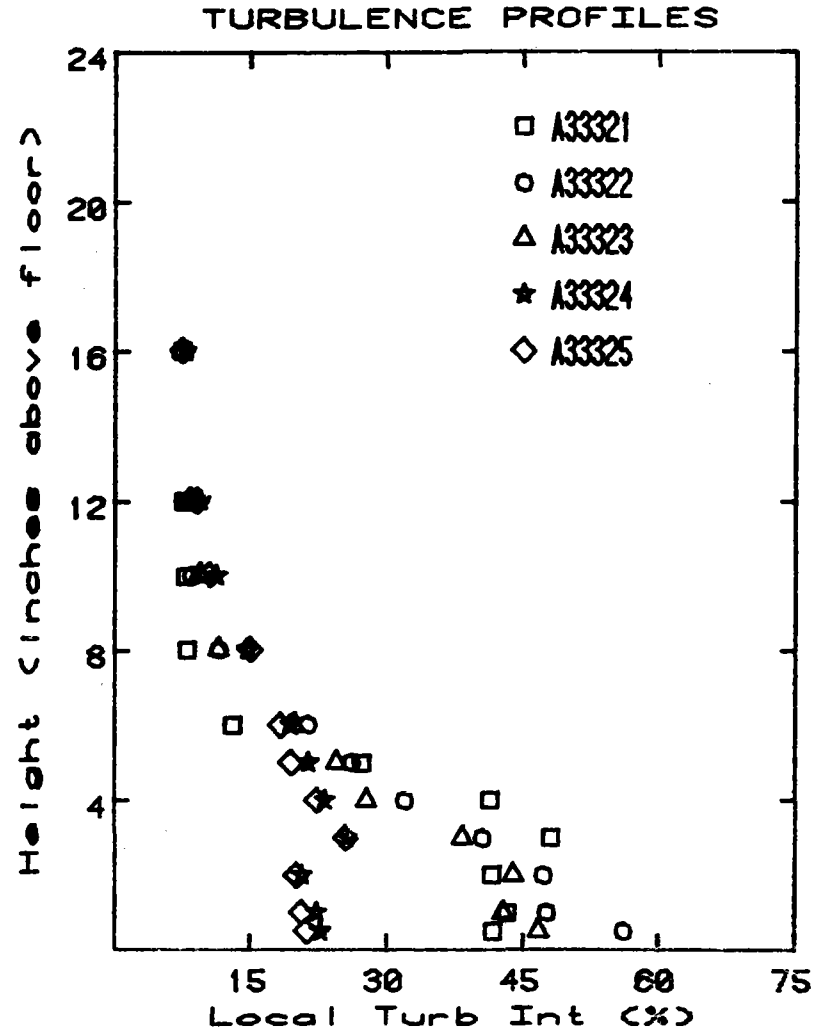
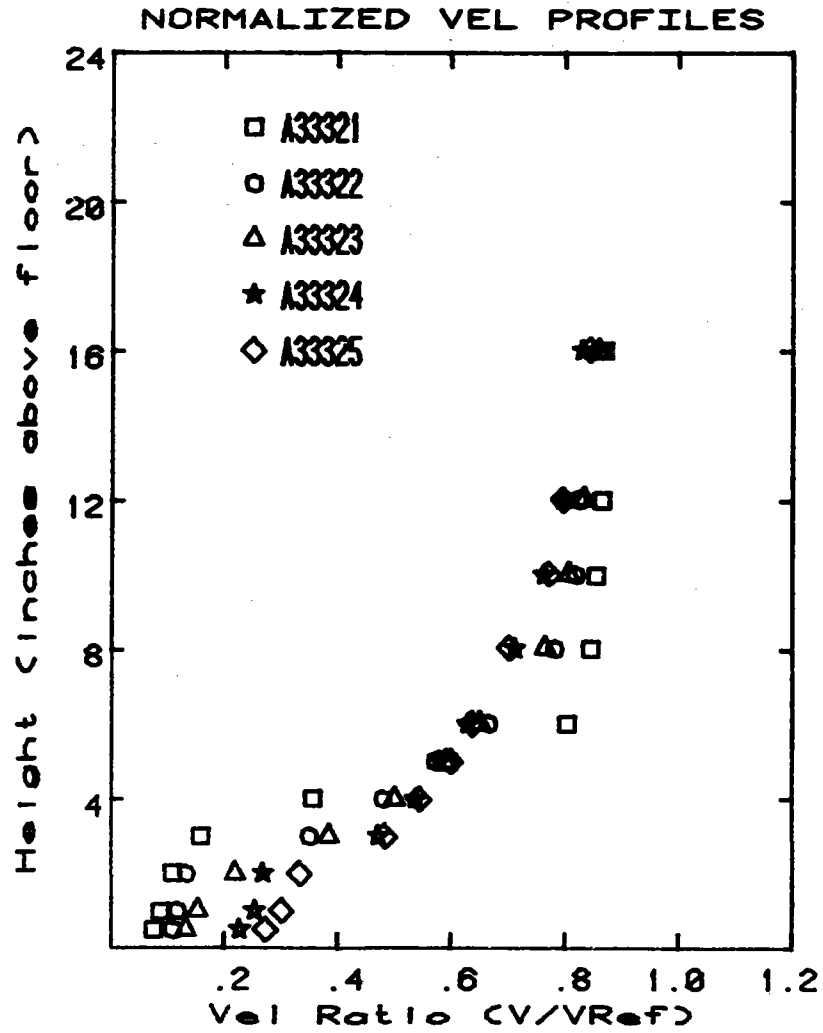
Graph # 84



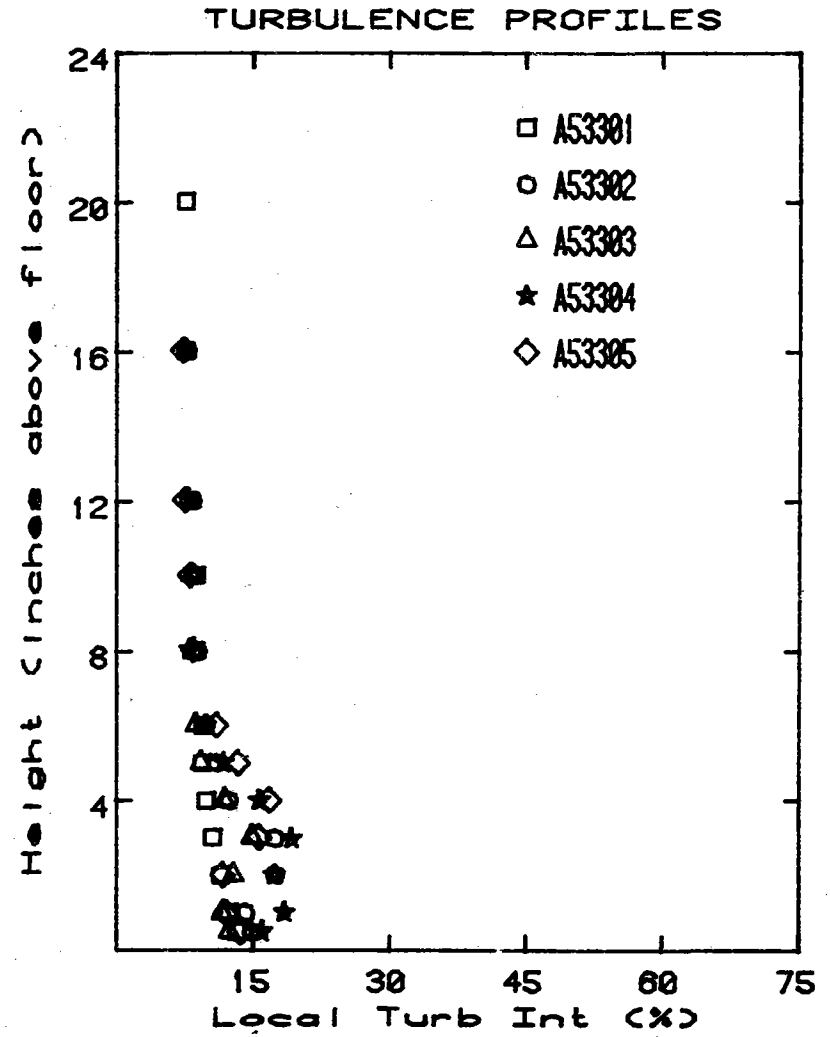
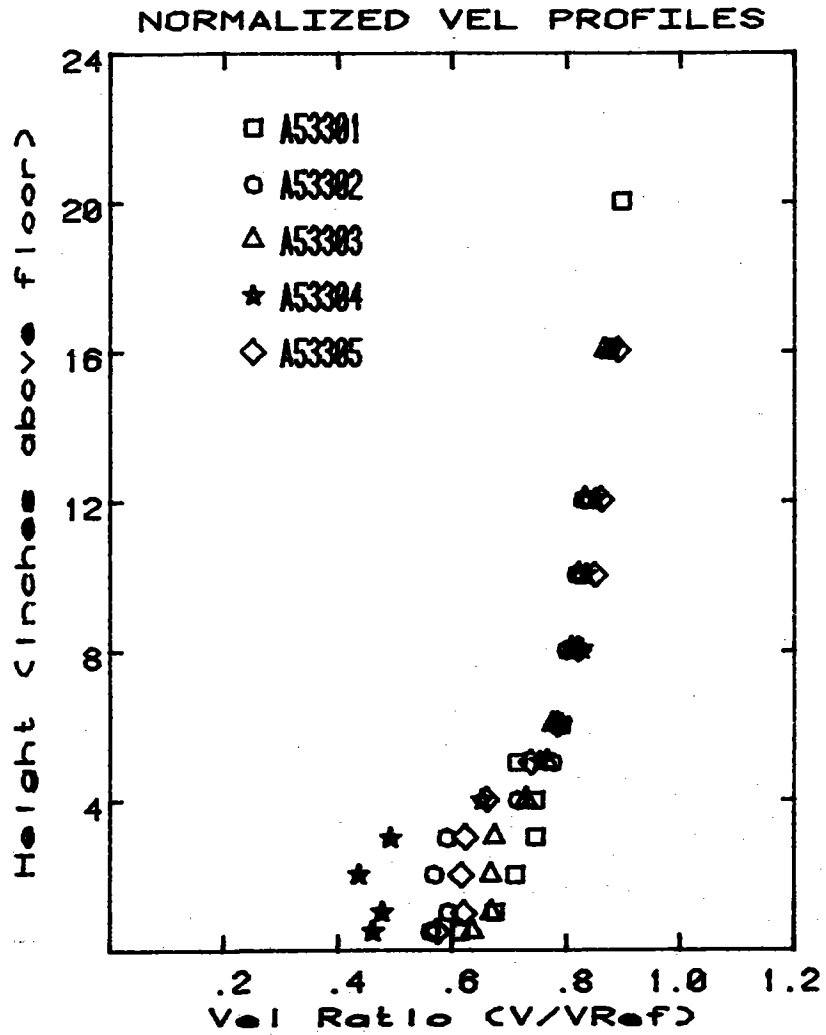
Graph # 85



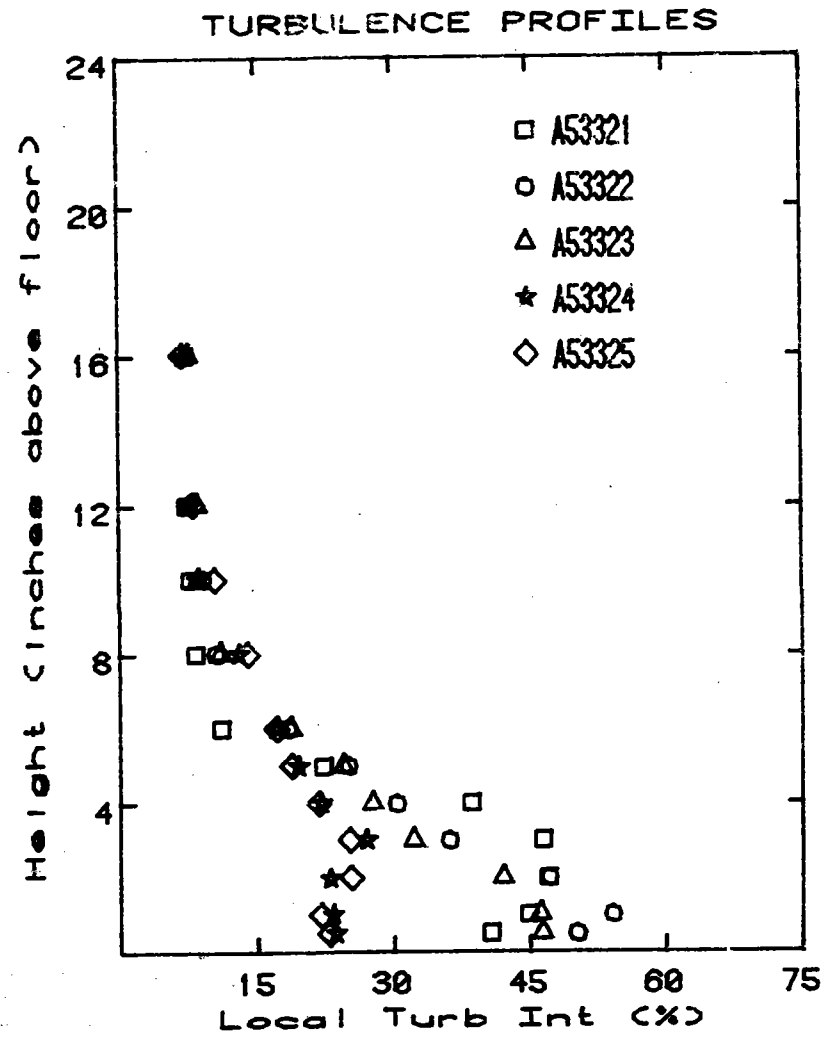
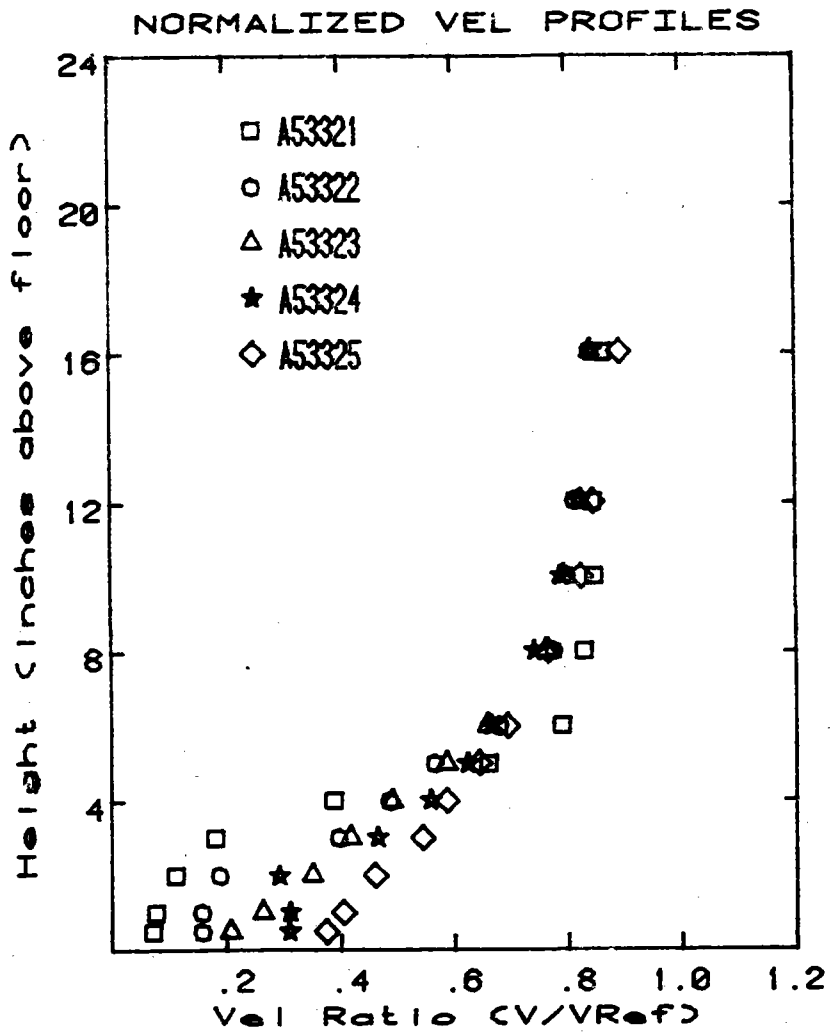
Graph # 86



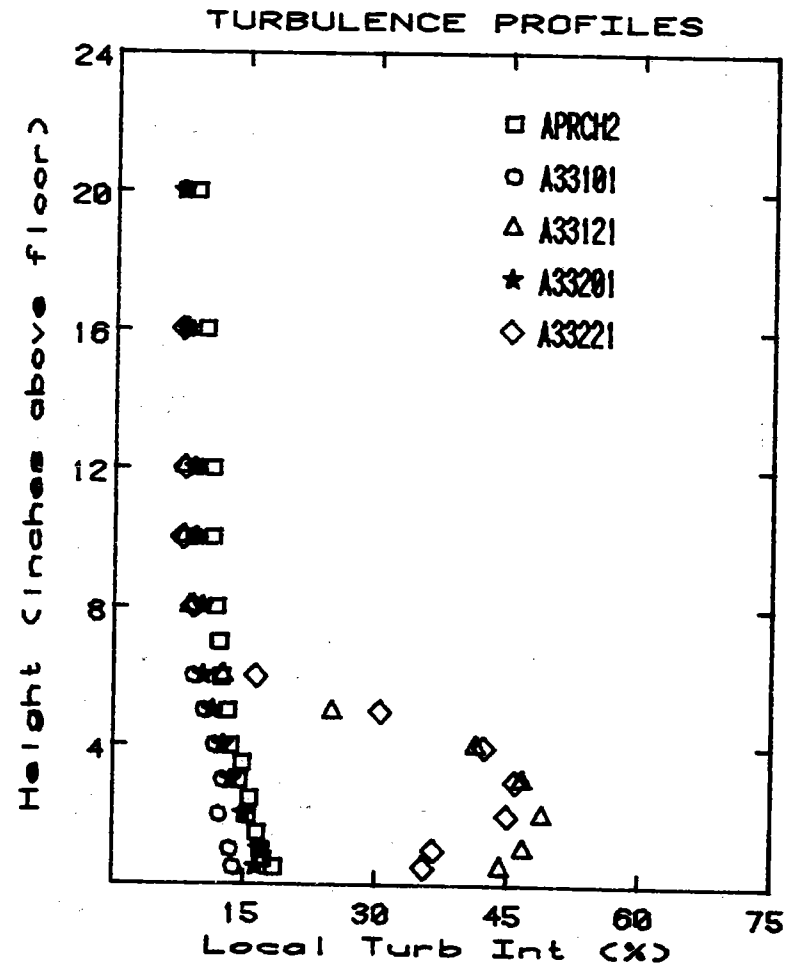
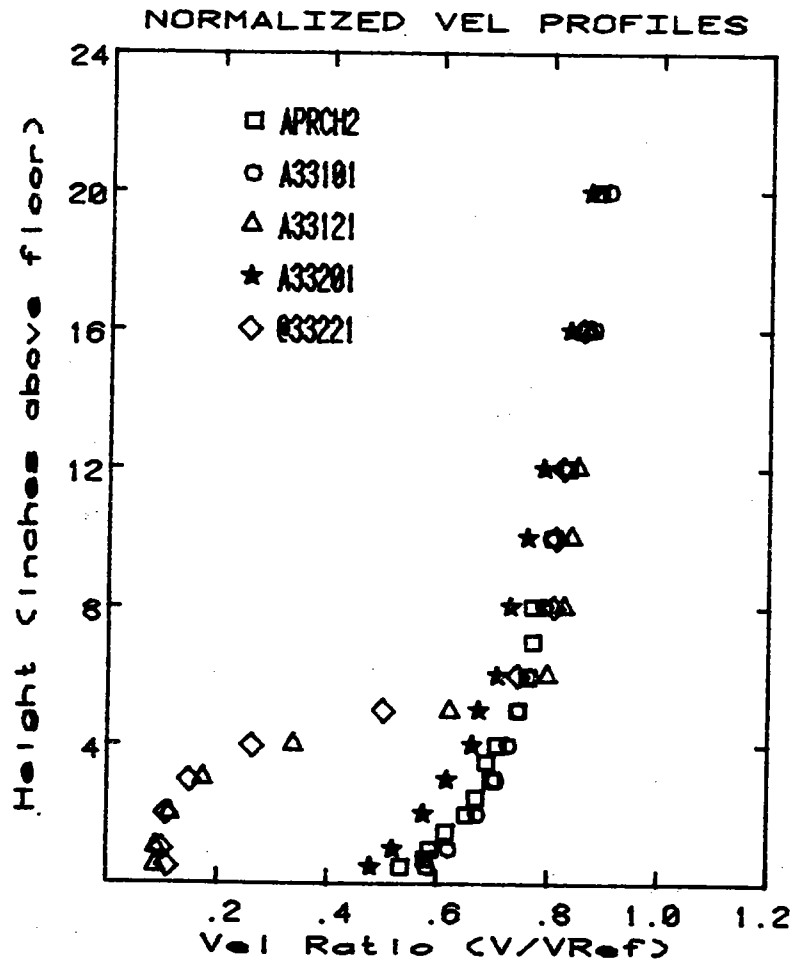
Graph # 87



Graph # 88

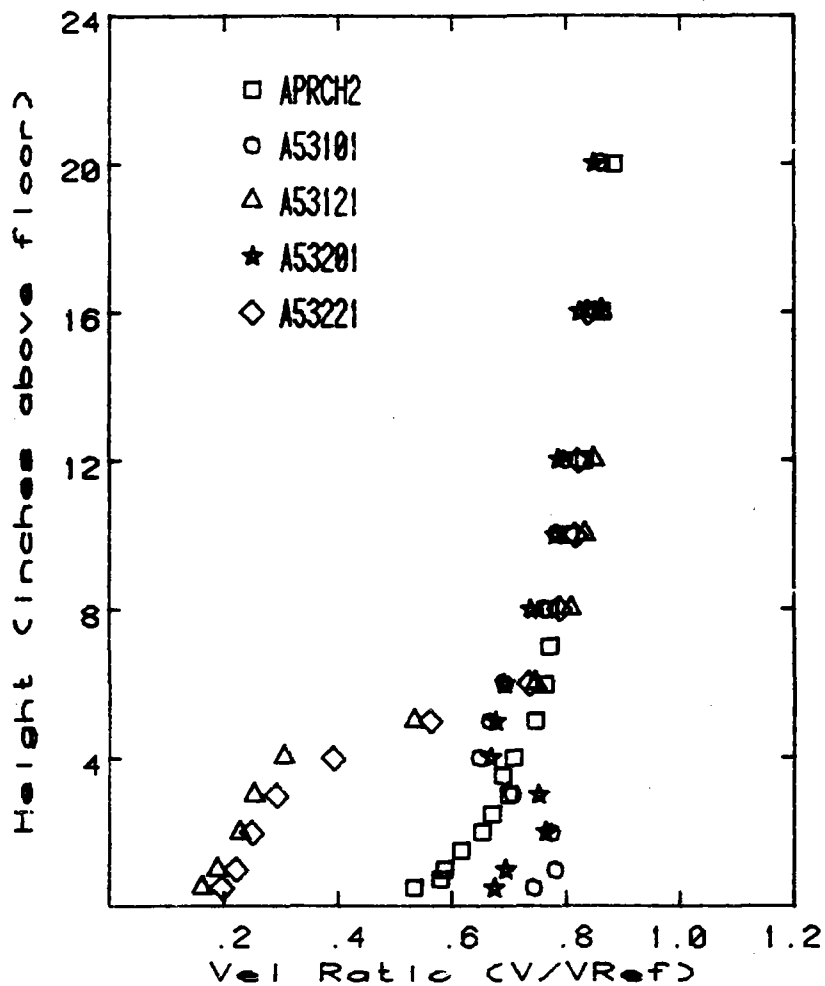


Graph # 89

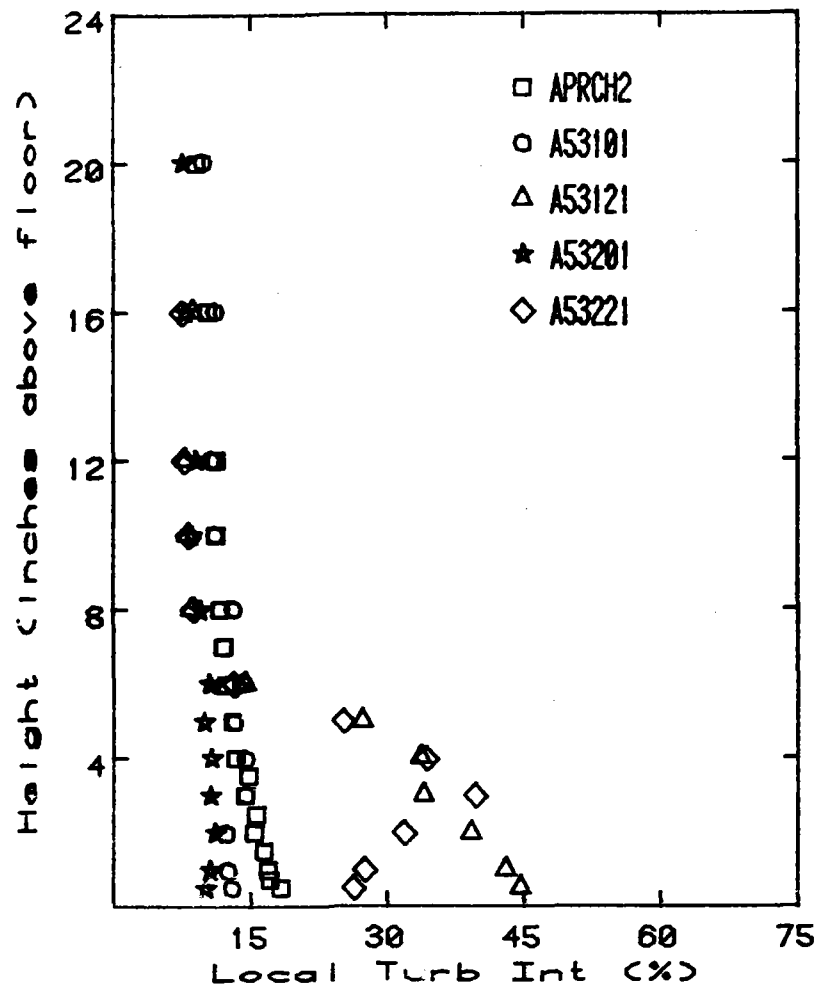


Graph # 90

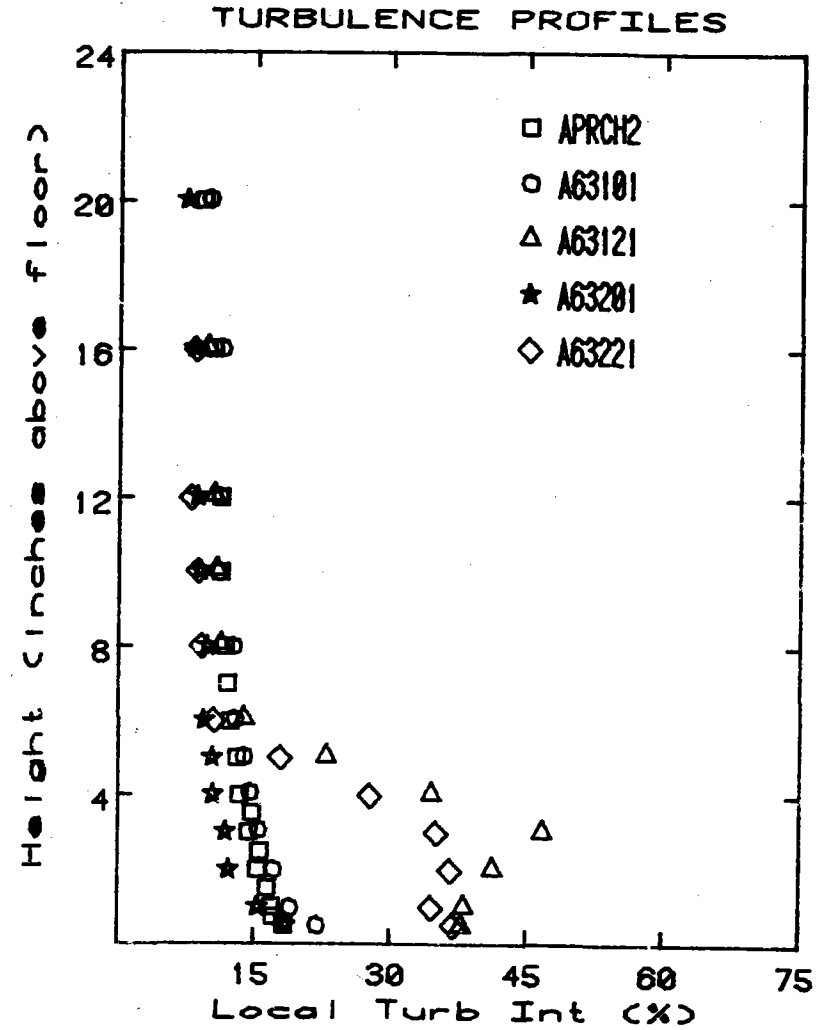
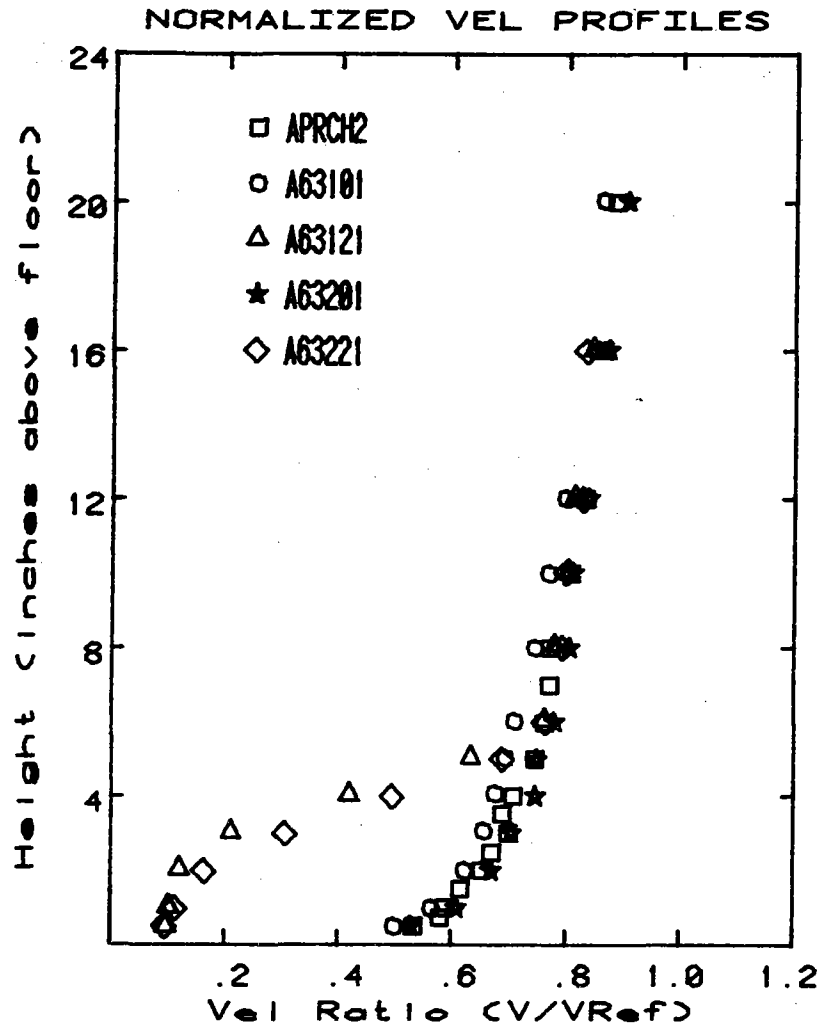
NORMALIZED VEL PROFILES



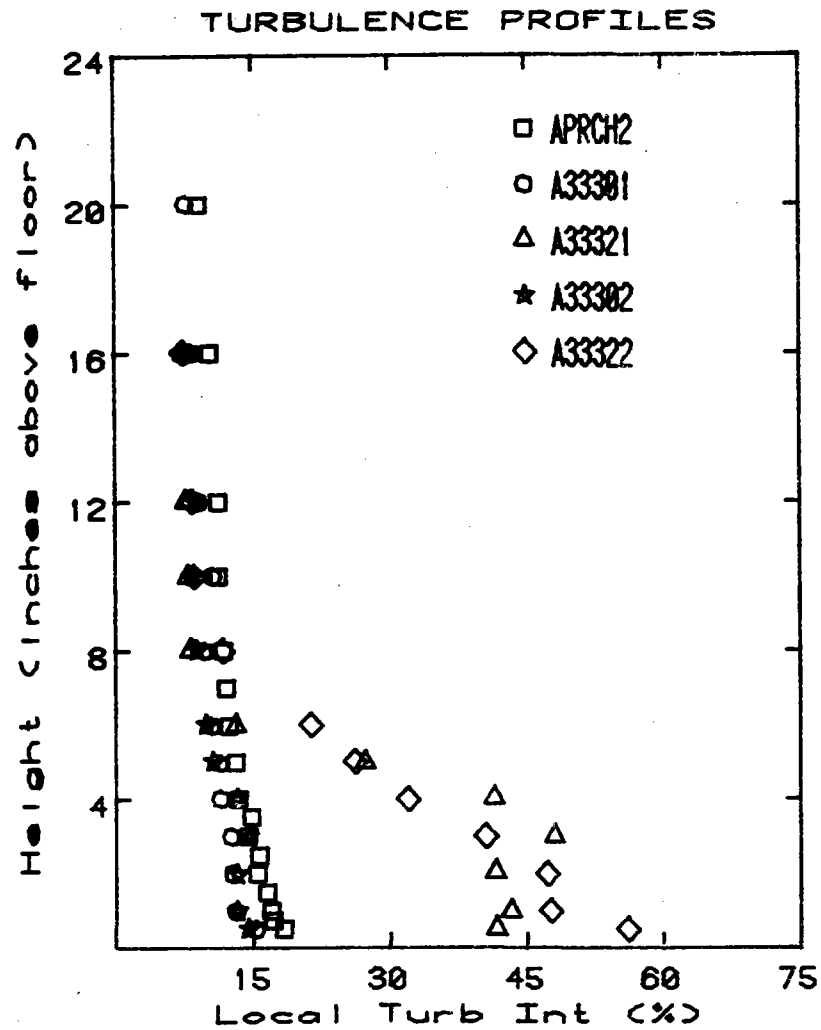
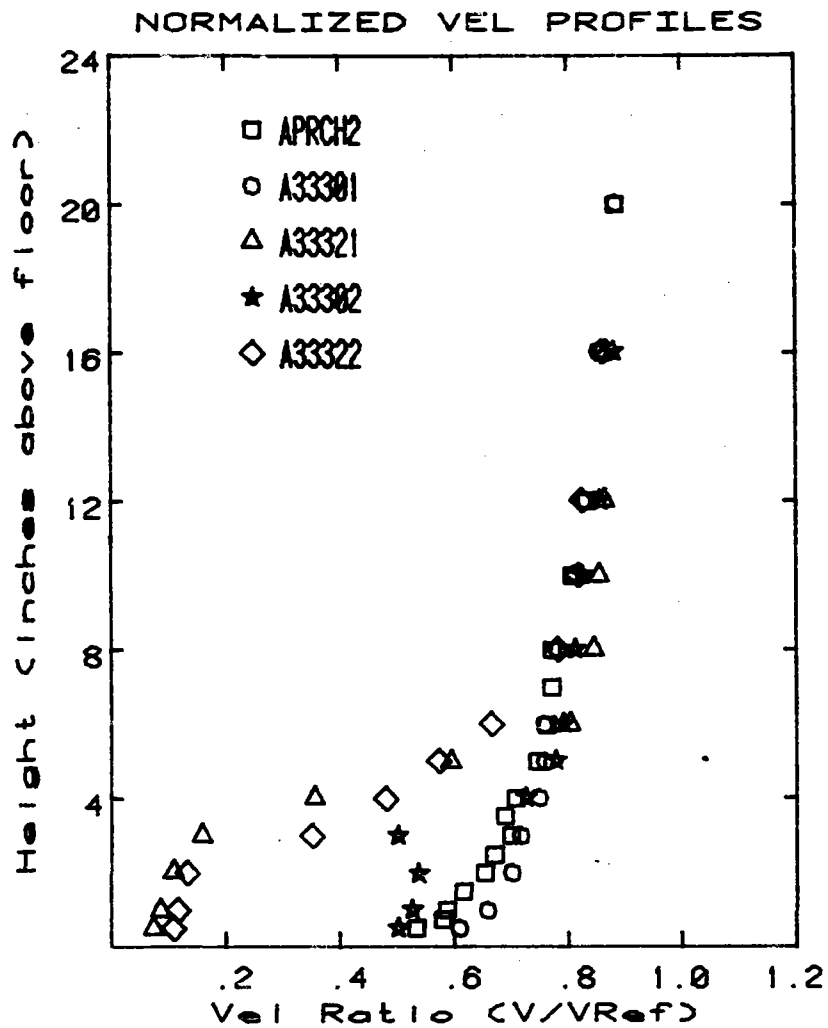
TURBULENCE PROFILES



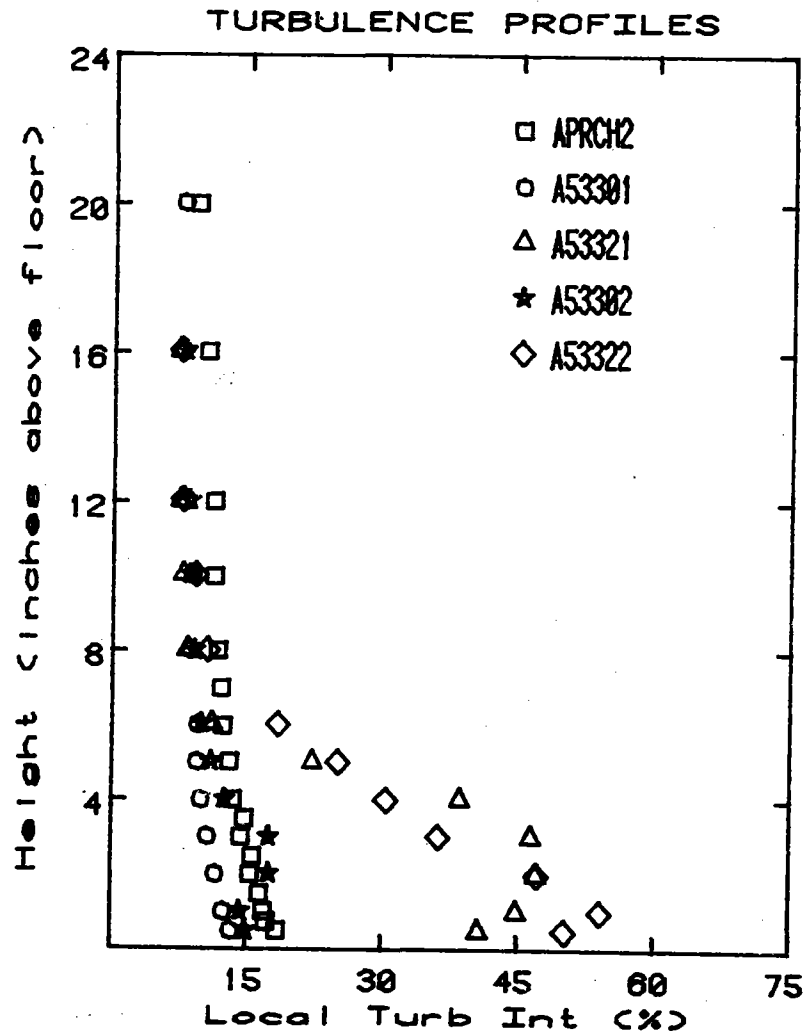
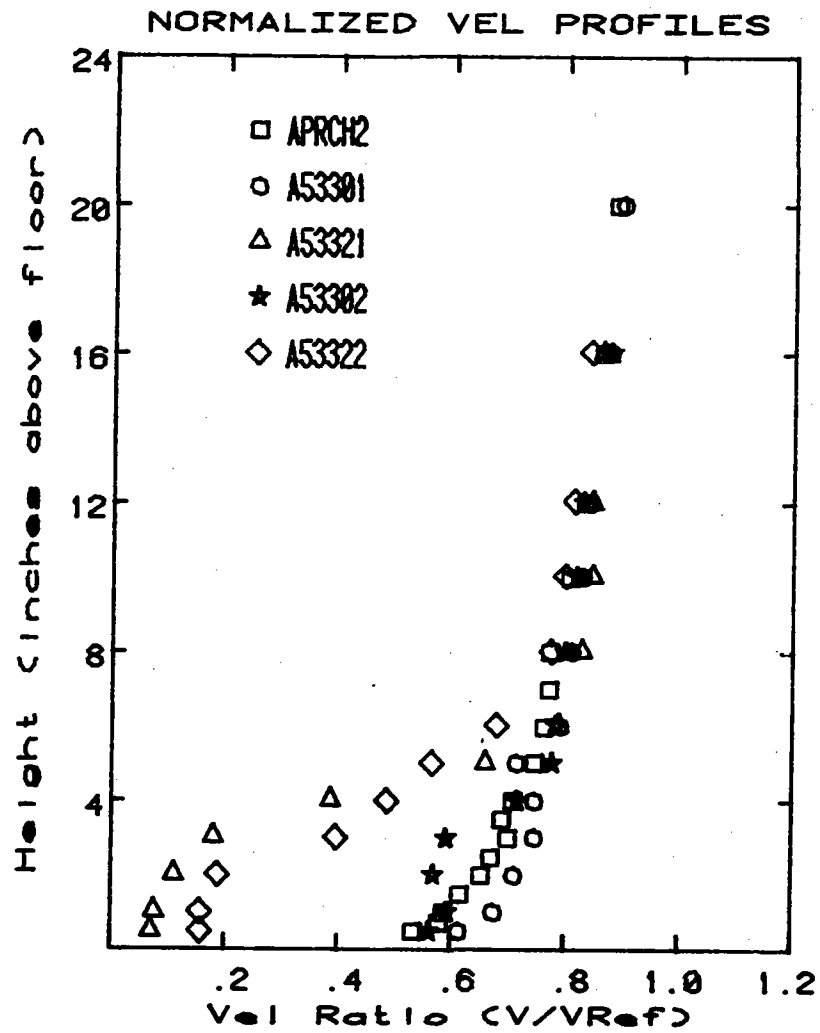
Graph # 91



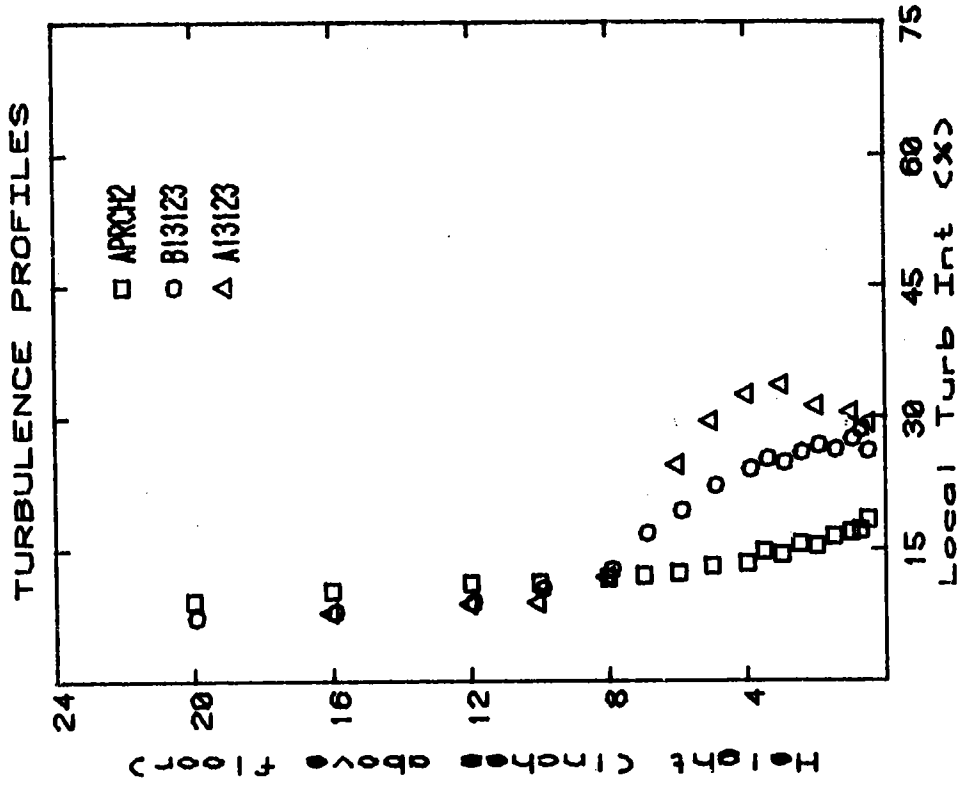
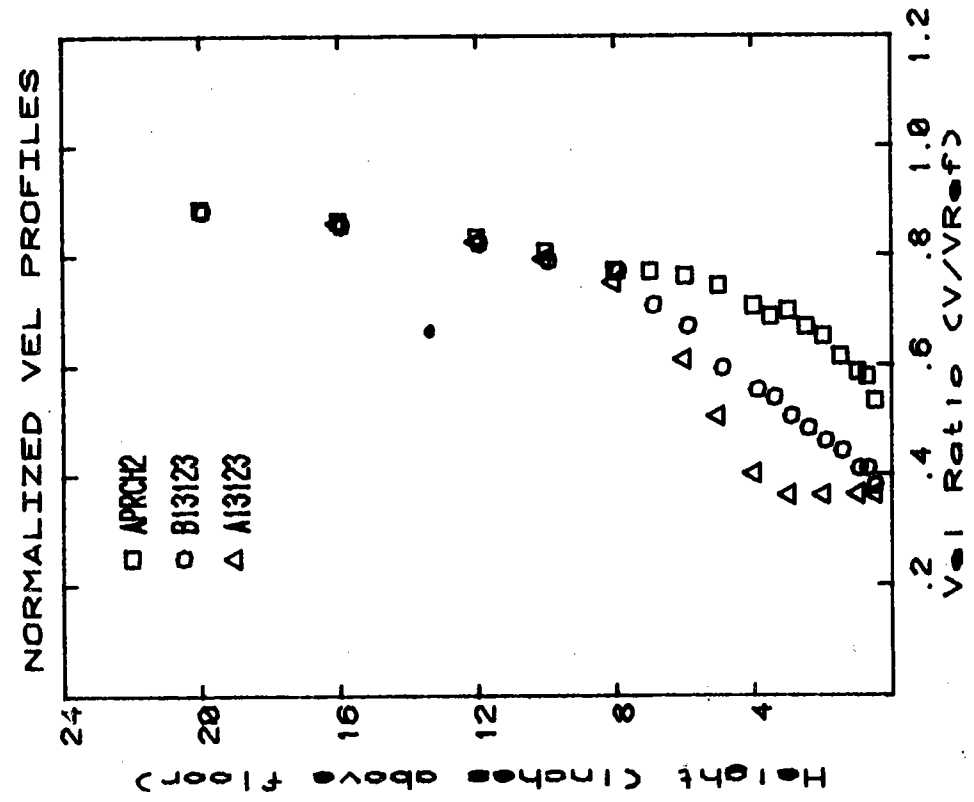
Graph # 92



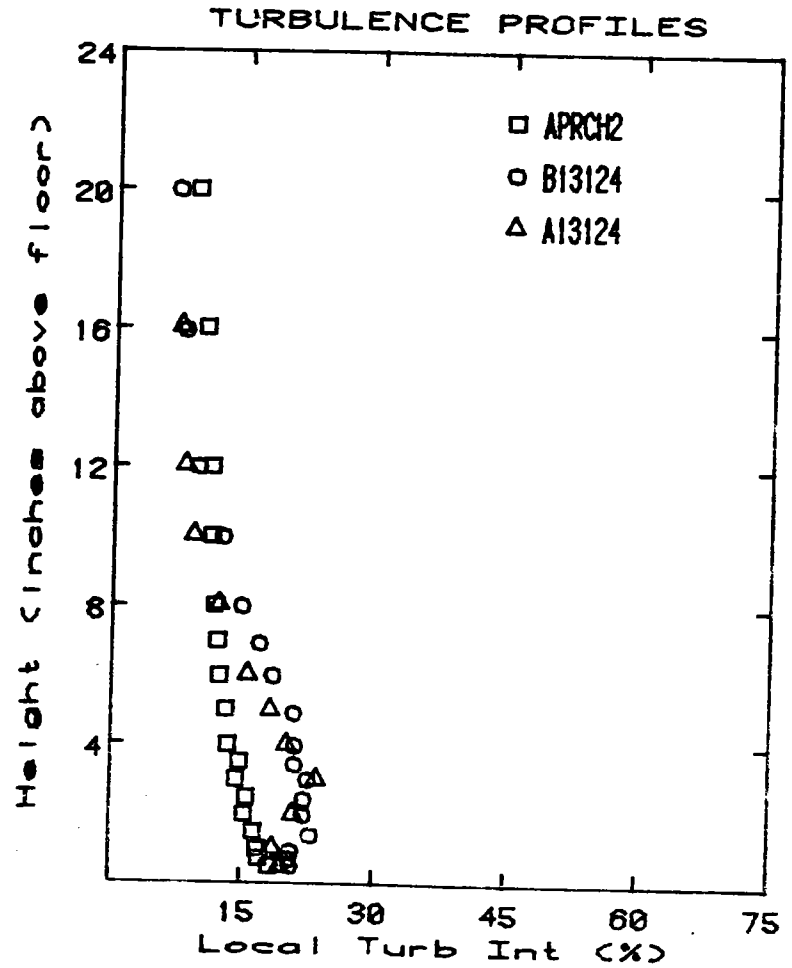
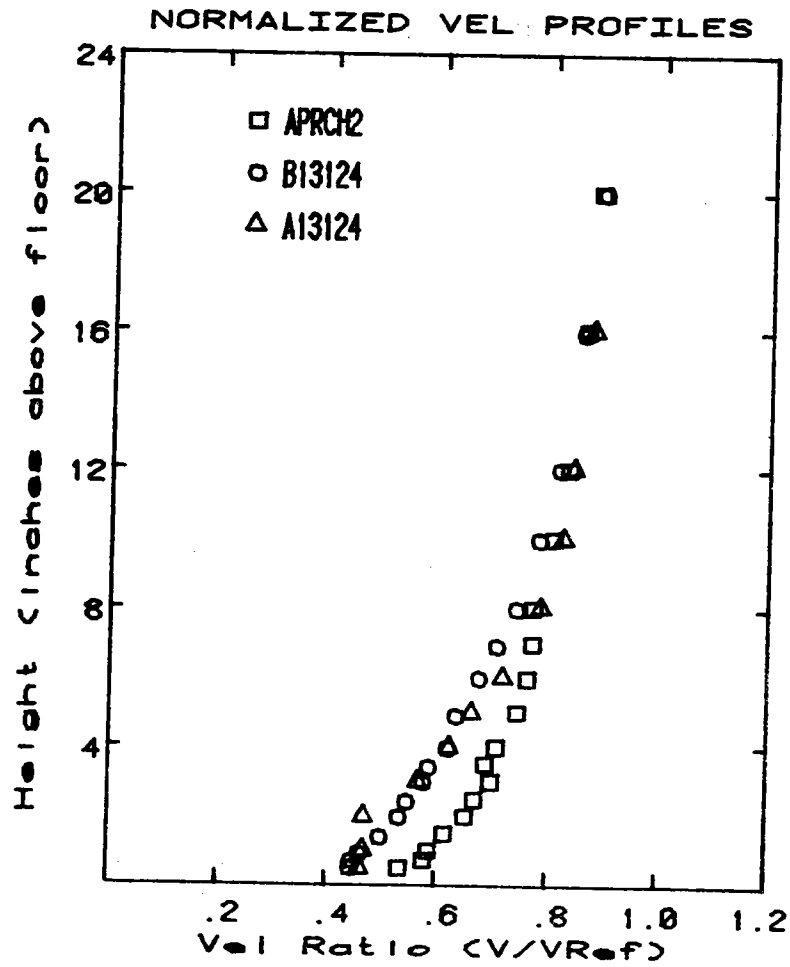
Graph # 93



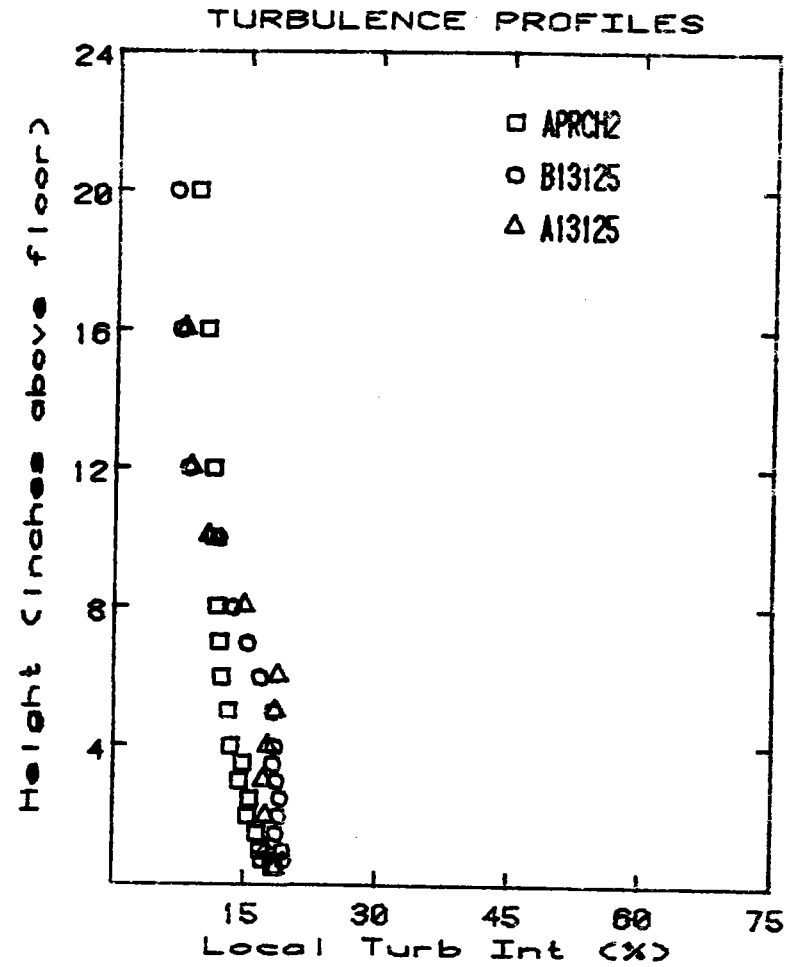
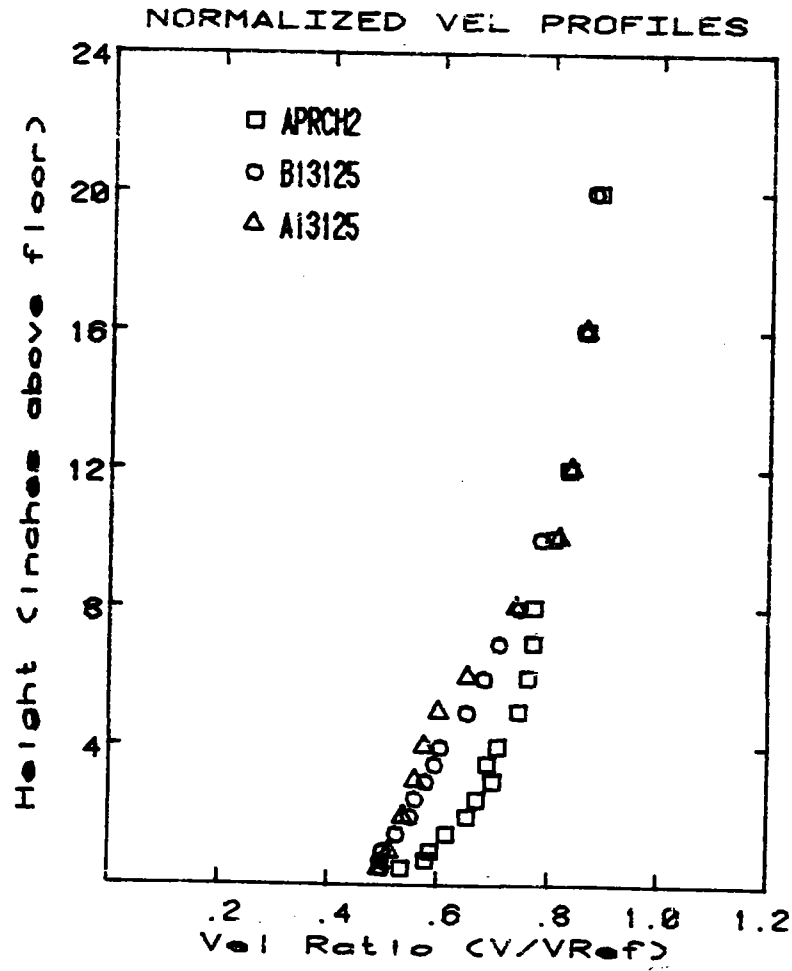
Graph # 94



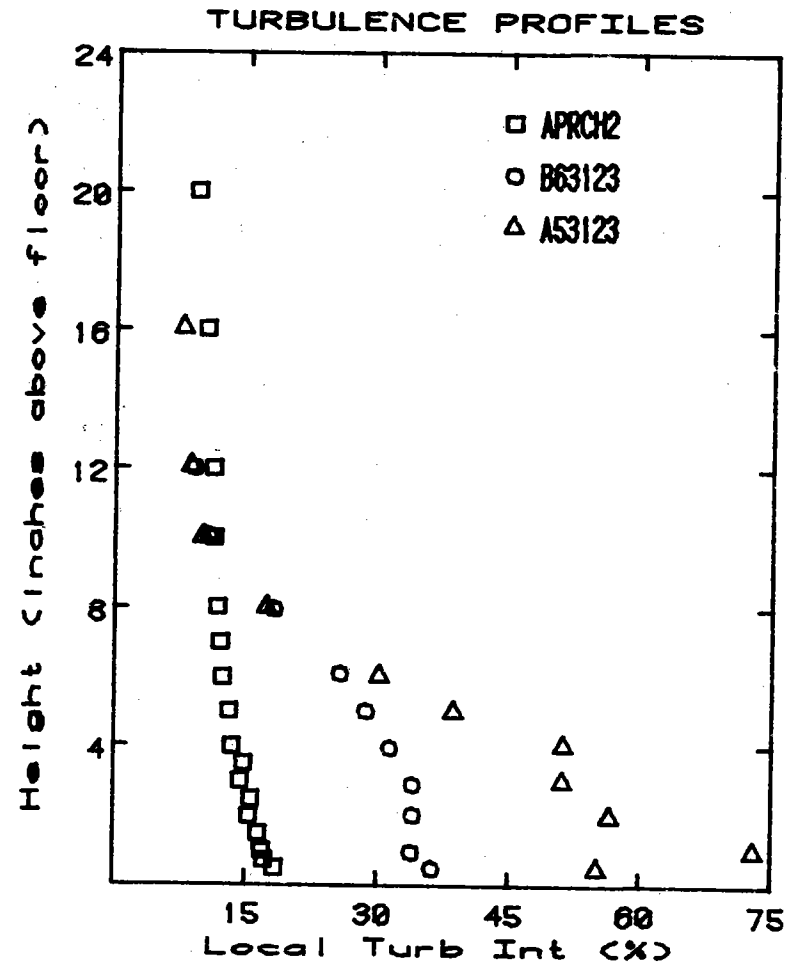
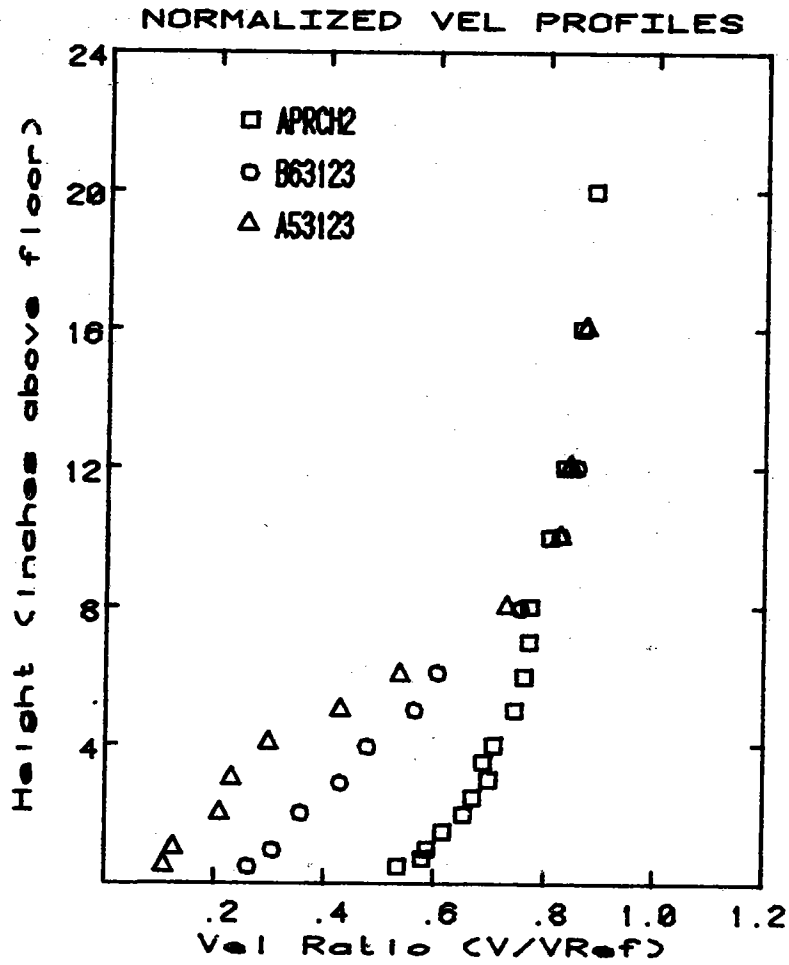
Graph # 95



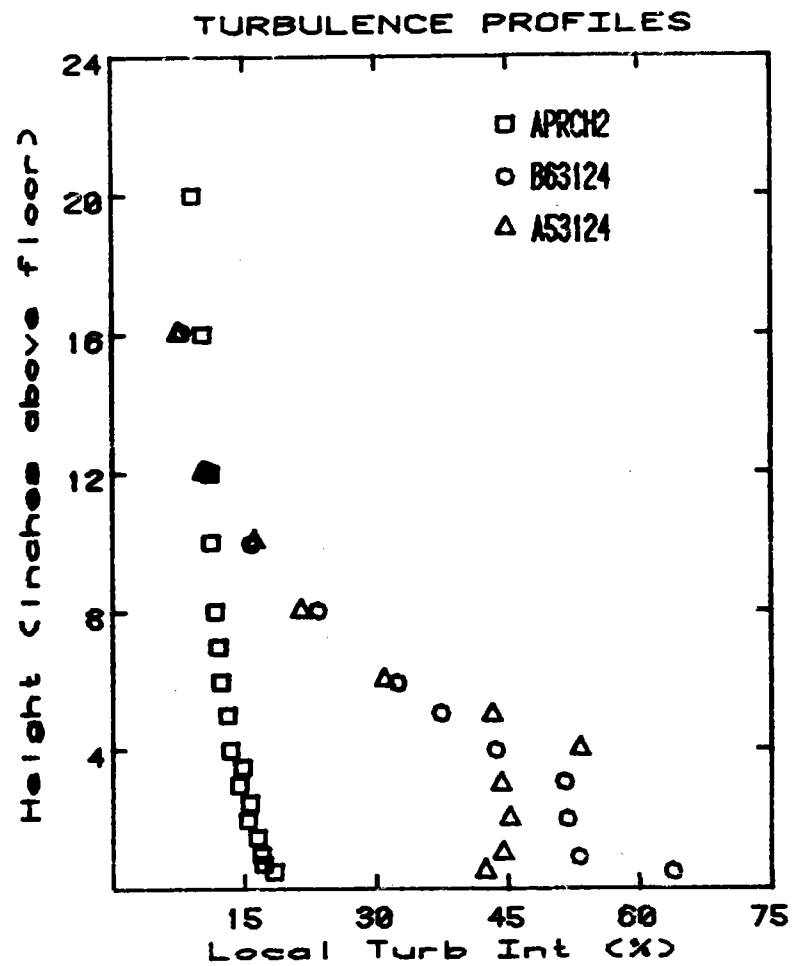
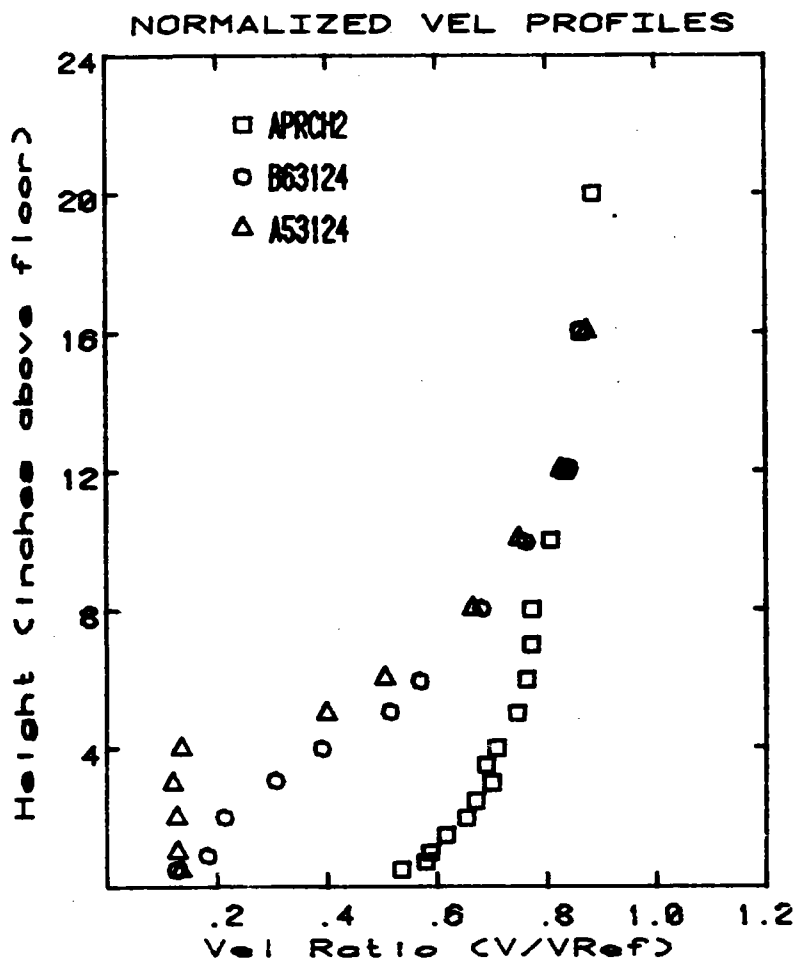
Graph # 96



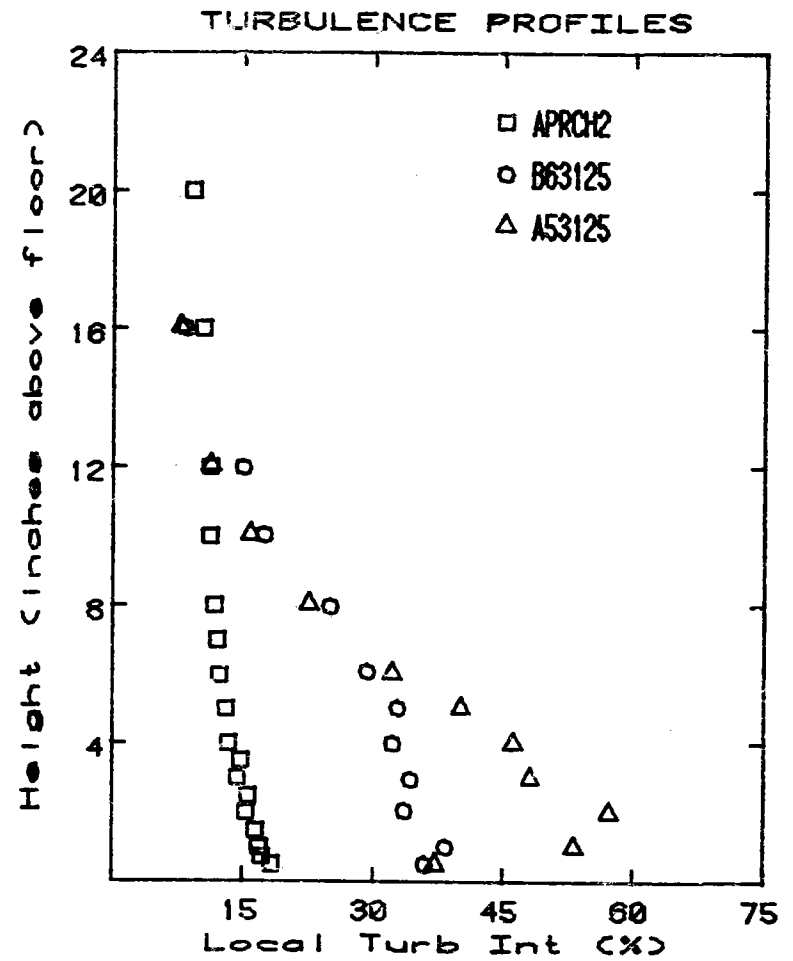
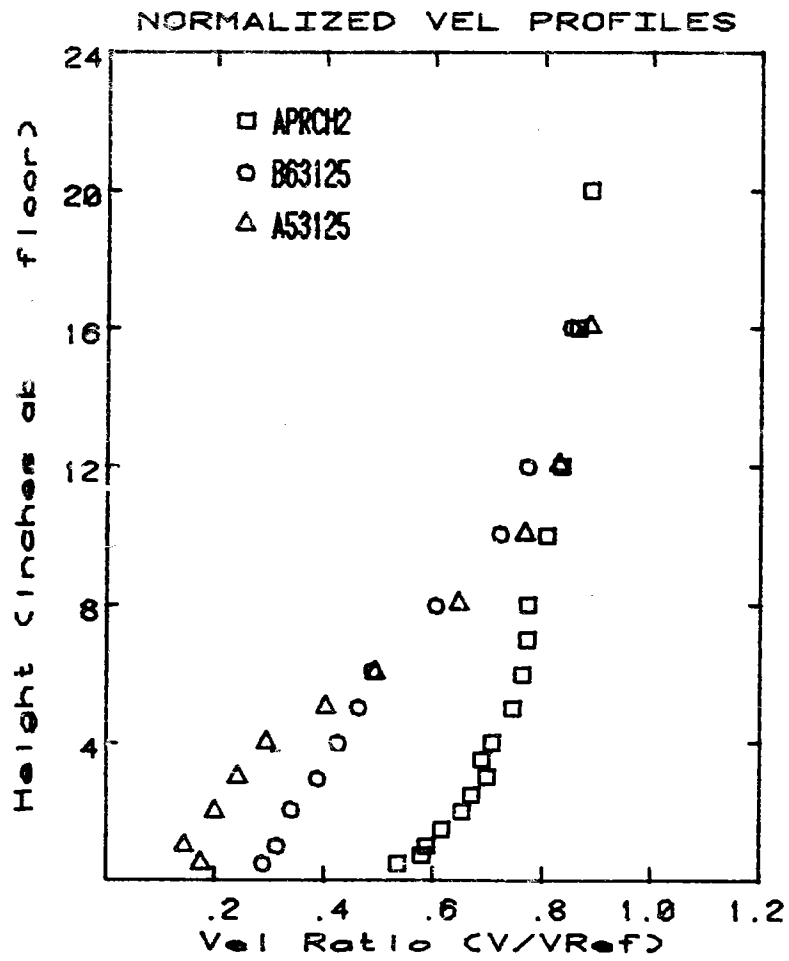
Graph # 97



Graph # 98



Graph # 99



APPENDIX C

Moment Coefficient Data

Velocity Profile and Moment Data-File Name CodeFile Name = Z WD V TD FC PZ = Zone = A or BWD = Wind Direction;

<u>Zone A</u>		<u>WD</u>	<u>Zone B</u>	
West	=	1	=	West
WSW	=	2	=	WNW
SW	=	3	=	NW
SSW	=	4	=	NNE
South	=	5	=	NE
SE	=	6	=	North

V = Nominal Free Stream Velocity

1 ~ 10 fps

2 ~ 20 fps

3 ~ 30 fps

TD = Time of Day (Heliostat Configuration)

1 = Noon

2 = 4:00 P.M.

3 = Stowed (alternating 87° and 93° pitch)

4 = Stowed' (all at 90° pitch)

All times-of-day are for local solar conditions on March 21.

FC = Fence Configuration (H and D; Figure 10)

0 = No Fence

1-H = 20 ft, D = 52 ft, 32% porosity

2-H = 15 ft, D = 52 ft, 32% porosity

3-H = 15 ft, D = 82 ft, 32% porosity

5-H = 15 ft, D = 52 ft + short corner fence,* 32% porosity

6-H = 10 ft, D = 52 ft, 32% porosity

7-H = 10 ft, D = 52 ft, plus H = 10, D = 102 ft, 32% porosity

8-H = 15 ft, D = 52 ft, 57% porosity

P = Position of Velocity Profiles

1 - 5 or 6 (see Figures 10a through 10l)

H = Instrumented Heliostat Moment Data File instead of a velocity profile

*short corner fence, H = 15 ft, 32% porosity, 120 ft long fence, placed 10 ft upstream of the regular fence at the upstream corner of the heliostat field (prototype dimensions).

FILENAME = B1210H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.233	.130
WIND DIRECTION = WEST	2	.283	.095
NOMINAL REF VELOCITY = 20	3	.339	.029
TIME OF DAY = NOON	4	-.183	.048
FENCE CONFIGURATION = NO FENCE	5	.060	.020
	6	.043	-.032
	7	.062	.042
	8	.077	.035

FILENAME = B1310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.207	.091
WIND DIRECTION = WEST	2	.233	.081
NOMINAL REF VELOCITY = 30	3	.308	.056
TIME OF DAY = NOON	4	-.068	.047
FENCE CONFIGURATION = NO FENCE	5	.087	.074
	6	.072	-.006
	7	.047	.045
	8	.061	.055

FILENAME = B1311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.001	-.009
WIND DIRECTION = WEST	2	.036	-.003
NOMINAL REF VELOCITY = 30	3	.027	-.012
TIME OF DAY = NOON	4	.022	.018
FENCE CONFIGURATION = 20FT AT 52FT	5	.115	.015
	6	.007	-.049
	7	.062	.028
	8	.074	.048

FILENAME = B1312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.012	.000
WIND DIRECTION = WEST	2	.078	-.006
NOMINAL REF VELOCITY = 30	3	.024	-.015
TIME OF DAY = NOON	4	.014	.031
FENCE CONFIGURATION = 15FT AT 52FT	5	.109	.018
	6	.037	-.041
	7	.059	.034
	8	.065	.050

FILENAME = B1313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.016	.004
WIND DIRECTION = WEST	2	.075	.002
NOMINAL REF VELOCITY = 30	3	.013	-.015
TIME OF DAY = NOON	4	.052	.030
FENCE CONFIGURATION = 15FT AT 82FT	5	.104	.022
	6	.027	-.025
	7	.051	.042
	8	.080	.042

FILENAME = B1322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	-.063	.011
WIND DIRECTION = WEST	2	-.112	-.003
NOMINAL REF VELOCITY = 30	3	-.057	-.006
TIME OF DAY = 4 PM	4	-.205	-.012
FENCE CONFIGURATION = 15FT AT 52FT	5	-.408	.012
	6	-.218	-.018
	7	-.339	-.003
	8	-.399	-.021

FILENAME = B1330H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	-.000	.031
WIND DIRECTION = WEST	2	.005	.026
NOMINAL REF VELOCITY = 30	3	.019	.016
TIME OF DAY = STOWED	4	-.034	.011
FENCE CONFIGURATION = NO FENCE	5	.000	.029
	6	-.029	-.008
	7	.001	.029
	8	-.002	.045

FILENAME = B1332H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.004	-.001
WIND DIRECTION = WEST	2	.002	-.003
NOMINAL REF VELOCITY = 30	3	.009	-.013
TIME OF DAY = STOWED	4	-.017	-.001
FENCE CONFIGURATION = 15FT AT 52FT	5	-.003	.017
	6	-.009	-.017
	7	-.004	.012
	8	-.004	.029

FILENAME = B2310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.646	.092
WIND DIRECTION = WNW	2	.685	.097
NOMINAL REF VELOCITY = 30	3	.902	.099
TIME OF DAY = NOON	4	.194	.041
FENCE CONFIGURATION = NO FENCE	5	.562	.085
	6	.448	.023
	7	.293	.075
	8	.365	.098

FILENAME = B2311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.506	.033
WIND DIRECTION = WNW	2	.365	.011
NOMINAL REF VELOCITY = 30	3	.177	-.020
TIME OF DAY = NOON	4	.250	.034
FENCE CONFIGURATION = 20FT AT 52FT	5	.139	.038
	6	.172	-.050
	7	.398	.057
	8	.462	.083

FILENAME = B2312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.556	.061
WIND DIRECTION = WNW	2	.430	.023
NOMINAL REF VELOCITY = 30	3	.307	-.005
TIME OF DAY = NOON	4	.207	.041
FENCE CONFIGURATION = 15FT AT 52FT	5	.160	.029
	6	.315	-.023
	7	.431	.077
	8	.443	.097

FILENAME = B2313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.221	-.183
WIND DIRECTION = WNW	2	.240	-.134
NOMINAL REF VELOCITY = 30	3	.161	-.108
TIME OF DAY = NOON	4	.130	.029
FENCE CONFIGURATION = 15FT AT 82FT	5	.209	.036
	6	.392	-.010
	7	.457	.074
	8	.444	.098

FILENAME = B2315H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.172	.035
WIND DIRECTION = WNW	2	.604	.046
NOMINAL REF VELOCITY = 30	3	.312	-.007
TIME OF DAY = NOON	4	.227	.043
FENCE CONFIGURATION = 15FT AT 52FT + SHORT CORNER FENCE	5	.185	.028
	6	.394	-.010
	7	.439	.076
	8	.423	.097

FILENAME = B2322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.193	.050
WIND DIRECTION = WNW	2	.208	.036
NOMINAL REF VELOCITY = 30	3	.107	.024
TIME OF DAY = 4 PM	4	-.015	.009
FENCE CONFIGURATION = 15FT AT 52FT	5	-.179	.013
	6	.083	-.000
	7	-.075	.019
	8	-.083	.024

FILENAME = B3110H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.546	.074
WIND DIRECTION = NW	2	.574	.245
NOMINAL REF VELOCITY = 10	3	1.271	-.221
TIME OF DAY = NOON	4	.020	.205
FENCE CONFIGURATION = NO FENCE	5	.998	-.188
	6	.721	.208
	7	.442	-.054
	8	.765	.036

FILENAME = B3210H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.667	.082
WIND DIRECTION = NW	2	.623	.129
NOMINAL REF VELOCITY = 20	3	.984	-.018
TIME OF DAY = NOON	4	.274	.085
FENCE CONFIGURATION = NO FENCE	5	.845	.024
	6	.642	.059
	7	.466	.041
	8	.708	.116

FILENAME = B3310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.742	.073
WIND DIRECTION = NW	2	.686	.107
NOMINAL REF VELOCITY = 30	3	.952	.051
TIME OF DAY = NOON	4	.394	.070
FENCE CONFIGURATION = NO FENCE	5	.813	.068
	6	.653	.018
	7	.482	.077
	8	.711	.123

FILENAME = B3311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.518	.072
WIND DIRECTION = NW	2	.965	.120
NOMINAL REF VELOCITY = 30	3	.190	-.036
TIME OF DAY = NOON	4	.769	.109
FENCE CONFIGURATION = 20FT AT 52FT	5	.143	.003
	6	.420	-.008
	7	.879	.073
	8	.852	.101

FILENAME = B3312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.677	.062
WIND DIRECTION = NW	2	.835	.098
NOMINAL REF VELOCITY = 30	3	.383	-.014
TIME OF DAY = NOON	4	.807	.106
FENCE CONFIGURATION = 15FT AT 52FT	5	.141	.021
	6	.538	-.012
	7	.650	.067
	8	.691	.096

FILENAME = B3313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.860	.056
WIND DIRECTION = NW	2	.752	.119
NOMINAL REF VELOCITY = 30	3	.349	-.015
TIME OF DAY = NOON	4	.773	.099
FENCE CONFIGURATION = 15FT AT 82FT	5	.273	.034
	6	.547	.009
	7	.744	.080
	8	.761	.089

FILENAME = 83315H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.186	-.031
WIND DIRECTION = NW	2	.370	.054
NOMINAL REF VELOCITY = 30	3	.372	-.013
TIME OF DAY = NOON	4	.748	.106
FENCE CONFIGURATION =	5	.146	.015
15FT AT 52FT + SHORT CORNER FENCE	6	.554	-.000
	7	.738	.078
	8	.719	.096

FILENAME = 83322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.421	.070
WIND DIRECTION = NW	2	.613	.089
NOMINAL REF VELOCITY = 30	3	.283	.016
TIME OF DAY = 4 PM	4	.154	.051
FENCE CONFIGURATION =	5	-.049	.010
15FT AT 52FT	6	.414	.015
	7	.134	.051
	8	.203	.070

FILENAME = 83330H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.038	.019
WIND DIRECTION = NW	2	.088	.065
NOMINAL REF VELOCITY = 30	3	.124	.054
TIME OF DAY = STOWED	4	.037	.044
FENCE CONFIGURATION =	5	.056	.001
NO FENCE	6	.066	.054
	7	.125	.064
	8	.102	.062

FILENAME = 83332H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.036	-.039
WIND DIRECTION = NW	2	.032	.027
NOMINAL REF VELOCITY = 30	3	.059	-.009
TIME OF DAY = STOWED	4	.001	.033
FENCE CONFIGURATION =	5	.006	.012
15FT AT 52FT	6	.046	.019
	7	.132	.071
	8	.112	.082

FILENAME = B4310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.937	-.098
WIND DIRECTION = NNE	2	.530	-.060
NOMINAL REF VELOCITY = 30	3	.475	-.077
TIME OF DAY = NOON	4	.367	-.052
FENCE CONFIGURATION = NO FENCE	5	.843	-.072
	6	.364	-.159
	7	.407	-.083
	8	1.010	-.107

FILENAME = B4311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.043	-.001
WIND DIRECTION = NNE	2	-.002	-.003
NOMINAL REF VELOCITY = 30	3	.445	-.074
TIME OF DAY = NOON	4	.178	-.037
FENCE CONFIGURATION = 20FT AT 52FT	5	.022	-.006
	6	.334	-.155
	7	.492	-.084
	8	.959	-.085

FILENAME = B4312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.158	-.021
WIND DIRECTION = NNE	2	.186	-.022
NOMINAL REF VELOCITY = 30	3	.507	-.081
TIME OF DAY = NOON	4	.243	-.048
FENCE CONFIGURATION = 15FT AT 52FT	5	.083	-.010
	6	.373	-.131
	7	.479	-.081
	8	1.011	-.103

FILENAME = B4313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.124	-.010
WIND DIRECTION = NNE	2	.260	-.033
NOMINAL REF VELOCITY = 30	3	.463	-.062
TIME OF DAY = NOON	4	.291	-.048
FENCE CONFIGURATION = 15FT AT 82FT	5	.054	-.011
	6	.385	-.165
	7	.448	-.081
	8	1.034	-.096

FILENAME = B4322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.230	-.028
WIND DIRECTION = NNE	2	.234	-.022
NOMINAL REF VELOCITY = 30	3	.531	-.030
TIME OF DAY = 4 PM	4	.326	-.023
FENCE CONFIGURATION = 15FT AT 52FT	5	.240	.001
	6	.342	-.104
	7	.542	-.039
	8	.763	.040

FILENAME = B5210H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.745	-.184
WIND DIRECTION = NE	2	.247	-.021
NOMINAL REF VELOCITY = 20	3	.280	-.123
TIME OF DAY = NOON	4	.119	-.049
FENCE CONFIGURATION = NO FENCE	5	.598	-.117
	6	.168	-.168
	7	.270	-.132
	8	.828	-.092

FILENAME = B5310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.798	-.163
WIND DIRECTION = NE	2	.263	-.038
NOMINAL REF VELOCITY = 30	3	.293	-.100
TIME OF DAY = NOON	4	.146	-.051
FENCE CONFIGURATION = NO FENCE	5	.610	-.104
	6	.161	-.171
	7	.268	-.101
	8	.794	-.098

FILENAME = B5311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.028	-.024
WIND DIRECTION = NE	2	-.001	-.023
NOMINAL REF VELOCITY = 30	3	.351	-.101
TIME OF DAY = NOON	4	.162	-.047
FENCE CONFIGURATION = 20FT AT 52FT	5	-.003	-.017
	6	.233	-.180
	7	.323	-.119
	8	.854	-.099

FILENAME = B5312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.051	-.022
WIND DIRECTION = NE	2	.052	-.022
NOMINAL REF VELOCITY = 30	3	.379	-.108
TIME OF DAY = NOON	4	.210	-.059
FENCE CONFIGURATION = 15FT AT 52FT	5	.059	-.025
	6	.229	-.174
	7	.248	-.110
	8	.866	-.099

FILENAME = B5313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.070	-.015
WIND DIRECTION = NE	2	.082	-.031
NOMINAL REF VELOCITY = 30	3	.395	-.108
TIME OF DAY = NOON	4	.233	-.059
FENCE CONFIGURATION = 15FT AT 82FT	5	.037	-.027
	6	.209	-.151
	7	.284	-.100
	8	.842	-.100

FILENAME = B5322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.266	-.021
WIND DIRECTION = NE	2	.318	-.035
NOMINAL REF VELOCITY = 30	3	.709	-.088
TIME OF DAY = 4 PM	4	.353	-.032
FENCE CONFIGURATION = 15FT AT 52FT	5	.263	-.018
	6	.453	-.063
	7	.561	-.062
	8	.709	.000

FILENAME = B5330H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.054	-.002
WIND DIRECTION = NE	2	.175	-.048
NOMINAL REF VELOCITY = 30	3	.081	-.074
TIME OF DAY = STOWED	4	.069	-.068
FENCE CONFIGURATION = NO FENCE	5	.024	.009
	6	.033	-.099
	7	.076	-.062
	8	.069	-.039

FILENAME = B5332H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	-.000	-.006
WIND DIRECTION = NE	2	.015	-.013
NOMINAL REF VELOCITY = 30	3	.080	-.079
TIME OF DAY = SLOWED	4	.034	-.037
FENCE CONFIGURATION = 15FT AT 52FT	5	-.011	-.014
	6	-.004	-.129
	7	.062	-.071
	8	.096	-.052

FILENAME = B6310H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.827	-.021
WIND DIRECTION = NORTH	2	.389	-.071
NOMINAL REF VELOCITY = 30	3	.381	.016
TIME OF DAY = NOON	4	.424	-.096
FENCE CONFIGURATION = NO FENCE	5	.841	.008
	6	.339	-.022
	7	.240	-.022
	8	.509	-.018

FILENAME = B6311H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.056	-.006
WIND DIRECTION = NORTH	2	.042	-.022
NOMINAL REF VELOCITY = 30	3	.552	.010
TIME OF DAY = NOON	4	.305	-.064
FENCE CONFIGURATION = 20FT AT 52FT	5	.076	.003
	6	.298	-.016
	7	.331	-.002
	8	.478	-.014

FILENAME = B6312H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.103	-.011
WIND DIRECTION = NORTH	2	.070	-.039
NOMINAL REF VELOCITY = 30	3	.481	.013
TIME OF DAY = NOON	4	.417	-.089
FENCE CONFIGURATION = 15FT AT 52FT	5	.223	.004
	6	.333	-.024
	7	.289	-.011
	8	.455	-.008

FILENAME = B6313H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.050	-.004
WIND DIRECTION = NORTH	2	.069	-.052
NOMINAL REF VELOCITY = 30	3	.451	.010
TIME OF DAY = NOON	4	.422	-.085
FENCE CONFIGURATION = 15FT AT 82FT	5	.246	.012
	6	.355	-.028
	7	.344	-.010
	8	.478	-.020

FILENAME = B6316H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.459	-.005
WIND DIRECTION = NORTH	2	.273	-.020
NOMINAL REF VELOCITY = 30	3	.349	.020
TIME OF DAY = NOON	4	.350	-.047
FENCE CONFIGURATION = 10FT AT 52FT	5	.507	-.012
	6	.312	-.024
	7	.303	-.022
	8	.412	-.019

FILENAME = B6317H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.291	.001
WIND DIRECTION = NORTH	2	.271	-.010
NOMINAL REF VELOCITY = 30	3	.408	.005
TIME OF DAY = NOON	4	.383	-.039
FENCE CONFIGURATION = 10FT AT 10FT + 10FT AT 102FT	5	.307	-.003
	6	.349	-.024
	7	.342	-.018
	8	.419	-.021

FILENAME = B6318H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.395	-.008
WIND DIRECTION = NORTH	2	.251	-.011
NOMINAL REF VELOCITY = 30	3	.446	-.000
TIME OF DAY = NOON	4	.320	-.028
FENCE CONFIGURATION = 15FT AT 52FT, 60% POROSITY	5	.339	.008
	6	.303	-.018
	7	.323	-.016
	8	.461	-.021

FILENAME = B6320H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	1.013	.032
WIND DIRECTION = NORTH	2	.432	.036
NOMINAL REF VELOCITY = 30	3	.875	.001
TIME OF DAY = 4 PM	4	.468	-.024
FENCE CONFIGURATION = NO FENCE	5	.838	.032
	6	.396	.016
	7	.420	.025
	8	.478	.012

FILENAME = B6322H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.164	-.012
WIND DIRECTION = NORTH	2	.154	.014
NOMINAL REF VELOCITY = 30	3	.722	.078
TIME OF DAY = 4 PM	4	.344	-.024
FENCE CONFIGURATION = 15FT AT 52FT	5	.223	.001
	6	.364	.010
	7	.383	.016
	8	.462	.010

FILENAME = B6330H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.081	.001
WIND DIRECTION = NORTH	2	.121	-.001
NOMINAL REF VELOCITY = 30	3	.138	-.012
TIME OF DAY = STOWED	4	.174	-.027
FENCE CONFIGURATION = NO FENCE	5	.048	.007
	6	.097	-.007
	7	.074	-.014
	8	.136	-.015

FILENAME = B6332H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.028	-.020
WIND DIRECTION = NORTH	2	.011	.002
NOMINAL REF VELOCITY = 30	3	.105	.000
TIME OF DAY = STOWED	4	.111	-.047
FENCE CONFIGURATION = 15FT AT 52FT	5	.005	.006
	6	.056	-.006
	7	.051	-.010
	8	.093	.002

FILENAME = B6340H	HELIOSTAT	CMX	CMY
TEST ZONE = B	1	.118	.005
WIND DIRECTION = NORTH	2	.052	-.037
NOMINAL REF VELOCITY = 30	3	.082	.017
TIME OF DAY = ALT STOWED	4	.136	-.043
FENCE CONFIGURATION =	5	.064	.008
NO FENCE	6	.065	.004
	7	.081	-.010
	8	.075	-.004

FILENAME = A1312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	.087	.012
WIND DIRECTION = WEST	2	.054	.010
NOMINAL REF VELOCITY = 30	3	.125	.020
TIME OF DAY = NOON	4	.138	.035
FENCE CONFIGURATION = 15FT AT 52FT	5	-.049	.020
	6	-.034	-.012
	7	-.001	.010
	8	.037	.033

FILENAME = A2312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.059	-.005
WIND DIRECTION = USW	2	-.026	.015
NOMINAL REF VELOCITY = 30	3	.084	.011
TIME OF DAY = NOON	4	.008	.002
FENCE CONFIGURATION = 15FT AT 52FT	5	-.104	.000
	6	-.087	-.020
	7	-.061	.021
	8	-.049	.036

FILENAME = A3310H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.265	-.045
WIND DIRECTION = SW	2	-.054	-.013
NOMINAL REF VELOCITY = 30	3	-.421	-.042
TIME OF DAY = NOON	4	-.067	.005
FENCE CONFIGURATION = NO FENCE	5	-.172	-.009
	6	-.082	-.027
	7	-.144	.005
	8	-.088	.012

FILENAME = A3312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.005	.014
WIND DIRECTION = SW	2	-.156	-.048
NOMINAL REF VELOCITY = 30	3	-.021	.004
TIME OF DAY = NOON	4	-.043	-.012
FENCE CONFIGURATION = 15FT AT 52FT	5	-.152	-.016
	6	-.098	-.022
	7	-.142	.001
	8	-.140	-.003

FILENAME = A3315H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.064	-.003
WIND DIRECTION = SW	2	-.094	-.044
NOMINAL REF VELOCITY = 30	3	-.021	.009
TIME OF DAY = NOON	4	-.055	-.015
FENCE CONFIGURATION =	5	-.158	-.027
15FT AT 52FT + SHORT CORNER FENCE	6	-.090	-.019
	7	-.143	-.011
	8	-.137	.001

FILENAME = A4312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.048	-.005
WIND DIRECTION = SSW	2	-.088	-.020
NOMINAL REF VELOCITY = 30	3	-.122	.003
TIME OF DAY = NOON	4	-.161	.005
FENCE CONFIGURATION =	5	-.172	-.023
15FT AT 52FT	6	-.160	-.050
	7	-.230	-.029
	8	-.257	-.027

FILENAME = A5310H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.460	-.050
WIND DIRECTION = SOUTH	2	-.177	-.030
NOMINAL REF VELOCITY = 30	3	-.620	-.036
TIME OF DAY = NOON	4	-.325	-.052
FENCE CONFIGURATION =	5	-.107	-.000
NO FENCE	6	-.082	-.041
	7	-.086	-.005
	8	-.140	-.005

FILENAME = A5312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.045	.005
WIND DIRECTION = SOUTH	2	-.052	.007
NOMINAL REF VELOCITY = 30	3	-.177	.010
TIME OF DAY = NOON	4	-.232	-.027
FENCE CONFIGURATION =	5	-.094	-.013
15FT AT 52FT	6	-.101	-.028
	7	-.107	-.003
	8	-.190	-.029

FILENAME = A6310H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.323	.047
WIND DIRECTION = SE	2	-.066	-.005
NOMINAL REF VELOCITY = 30	3	-.181	.023
TIME OF DAY = NOON	4	-.080	-.001
FENCE CONFIGURATION = NO FENCE	5	-.144	.006
	6	-.135	-.037
	7	-.335	.045
	8	-.277	.023

FILENAME = A6312H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.052	-.004
WIND DIRECTION = SE	2	-.033	-.023
NOMINAL REF VELOCITY = 30	3	-.045	.006
TIME OF DAY = NOON	4	.012	-.036
FENCE CONFIGURATION = 15FT AT 52FT	5	-.121	.005
	6	-.114	-.031
	7	-.321	.057
	8	-.271	.016

FILENAME = A1322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.020	.005
WIND DIRECTION = WEST	2	-.087	-.016
NOMINAL REF VELOCITY = 30	3	.048	.024
TIME OF DAY = 4 PM	4	.054	.039
FENCE CONFIGURATION = 15FT AT 52FT	5	-.200	-.014
	6	-.069	-.016
	7	-.192	.006
	8	-.090	.011

FILENAME = A2322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.134	.001
WIND DIRECTION = WSW	2	-.047	-.003
NOMINAL REF VELOCITY = 30	3	-.019	.006
TIME OF DAY = 4 PM	4	-.019	.001
FENCE CONFIGURATION = 15FT AT 52FT	5	-.170	.006
	6	-.114	-.001
	7	-.242	-.004
	8	-.193	.004

FILENAME = A3320H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.418	-.033
WIND DIRECTION = SW	2	-.085	-.030
NOMINAL REF VELOCITY = 30	3	-.687	-.044
TIME OF DAY = 4 PM	4	-.093	.005
FENCE CONFIGURATION = NO FENCE	5	-.222	.003
	6	-.161	-.030
	7	-.296	-.014
	8	-.281	-.016

FILENAME = A3322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.130	-.008
WIND DIRECTION = SW	2	-.071	-.005
NOMINAL REF VELOCITY = 30	3	-.080	.008
TIME OF DAY = 4 PM	4	-.061	.005
FENCE CONFIGURATION = 15FT AT 52FT	5	-.153	-.010
	6	-.143	-.037
	7	-.273	-.014
	8	-.228	-.016

FILENAME = A3325H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.167	-.006
WIND DIRECTION = SW	2	-.060	-.014
NOMINAL REF VELOCITY = 30	3	-.080	.002
TIME OF DAY = 4 PM	4	-.046	.010
FENCE CONFIGURATION = 15FT AT 52FT + SHORT CORNER FENCE	5	-.178	-.011
	6	-.148	-.044
	7	-.276	-.014
	8	-.227	-.018

FILENAME = A4322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.081	-.001
WIND DIRECTION = SSW	2	-.040	-.006
NOMINAL REF VELOCITY = 30	3	-.169	.008
TIME OF DAY = 4 PM	4	-.142	-.011
FENCE CONFIGURATION = 15FT AT 52FT	5	-.290	-.007
	6	-.243	-.055
	7	-.322	-.003
	8	-.223	.008

FILENAME = A5320H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.618	.051
WIND DIRECTION = SOUTH	2	-.110	.004
NOMINAL REF VELOCITY = 30	3	-.552	.043
TIME OF DAY = 4 PM	4	-.196	.021
FENCE CONFIGURATION = NO FENCE	5	-.135	.005
	6	-.256	-.024
	7	-.383	.014
	8	-.151	.003

FILENAME = A5322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.115	.004
WIND DIRECTION = SOUTH	2	-.057	-.021
NOMINAL REF VELOCITY = 30	3	-.148	.026
TIME OF DAY = 4 PM	4	-.172	.010
FENCE CONFIGURATION = 15FT AT 52FT	5	-.144	.011
	6	-.188	-.022
	7	-.332	.016
	8	-.201	.005

FILENAME = A6320H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.377	.040
WIND DIRECTION = SE	2	-.072	-.011
NOMINAL REF VELOCITY = 30	3	-.144	.016
TIME OF DAY = 4 PM	4	-.116	.001
FENCE CONFIGURATION = NO FENCE	5	-.028	-.023
	6	-.193	-.036
	7	-.149	-.032
	8	-.081	-.038

FILENAME = A6322H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.017	.001
WIND DIRECTION = SE	2	-.043	-.022
NOMINAL REF VELOCITY = 30	3	-.048	.011
TIME OF DAY = 4 PM	4	-.137	.005
FENCE CONFIGURATION = 15FT AT 52FT	5	-.060	-.019
	6	-.183	-.024
	7	-.147	-.014
	8	-.088	-.021

FILENAME = A3330H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.034	.005
WIND DIRECTION = SW	2	-.013	-.013
NOMINAL REF VELOCITY = 30	3	-.048	.015
TIME OF DAY = STOWED	4	-.067	.050
FENCE CONFIGURATION =	5	-.069	.040
NO FENCE	6	-.030	-.033
	7	-.080	.041
	8	-.047	.039

FILENAME = A3332H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	.007	.016
WIND DIRECTION = SW	2	.029	-.049
NOMINAL REF VELOCITY = 30	3	.005	-.008
TIME OF DAY = STOWED	4	-.010	.005
FENCE CONFIGURATION =	5	-.032	.008
15FT AT 52FT	6	-.012	-.031
	7	-.054	.037
	8	-.036	.025

FILENAME = A5330H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	-.055	-.009
WIND DIRECTION = SOUTH	2	-.020	-.012
NOMINAL REF VELOCITY = 30	3	-.052	.000
TIME OF DAY = STOWED	4	-.083	.066
FENCE CONFIGURATION =	5	-.119	-.004
NO FENCE	6	-.041	-.029
	7	-.117	-.006
	8	-.090	.008

FILENAME = A5332H	HELIOSTAT	CMX	CMY
TEST ZONE = A	1	.003	-.006
WIND DIRECTION = SOUTH	2	.009	-.002
NOMINAL REF VELOCITY = 30	3	-.008	-.001
TIME OF DAY = STOWED	4	-.022	-.001
FENCE CONFIGURATION =	5	-.045	-.007
15FT AT 52FT	6	-.029	-.039
	7	-.072	-.004
	8	-.068	.005

APPENDIX D

Moment Coefficient Plots

Velocity Profile and Moment Data-File Name CodeFile Name = Z WD V TD FC PZ = Zone = A or BWD = Wind Direction;

<u>Zone A</u>		<u>WD</u>	<u>Zone B</u>	
West	=	1	=	West
WSW	=	2	=	WNW
SW	=	3	=	NW
SSW	=	4	=	NNE
South	=	5	=	NE
SE	=	6	=	North

V = Nominal Free Stream Velocity

1 ~ 10 fps

2 ~ 20 fps

3 ~ 30 fps

TD = Time of Day (Heliostat Configuration)

1 = Noon

2 = 4:00 P.M.

3 = Stowed (alternating 87° and 93° pitch)

4 = Stowed' (all at 90° pitch)

All times-of-day are for local solar conditions on March 21.

FC = Fence Configuration (H and D; Figure 10)

0 = No Fence

1-H = 20 ft, D = 52 ft, 32% porosity

2-H = 15 ft, D = 52 ft, 32% porosity

3-H = 15 ft, D = 82 ft, 32% porosity

5-H = 15 ft, D = 52 ft + short corner fence,* 32% porosity

6-H = 10 ft, D = 52 ft, 32% porosity

7-H = 10 ft, D = 52 ft, plus H = 10, D = 102 ft, 32% porosity

8-H = 15 ft, D = 52 ft, 57% porosity

P = Position of Velocity Profiles

1 - 5 or 6 (see Figures 10a through 10l)

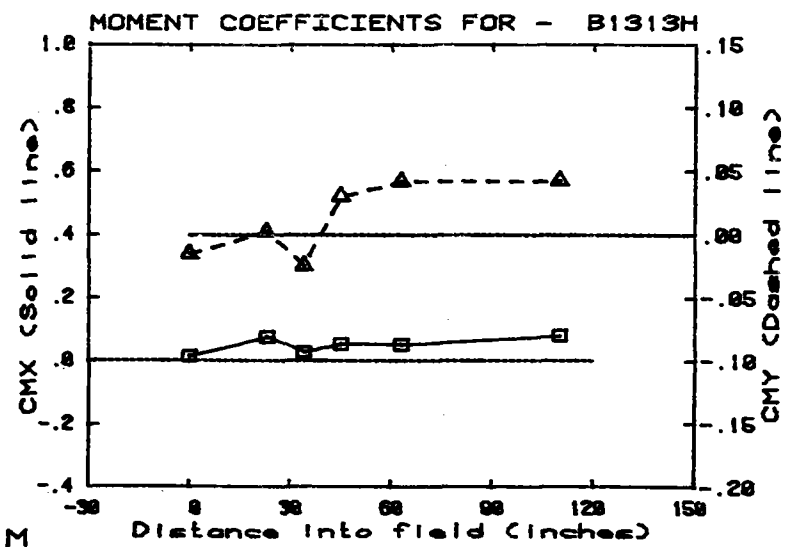
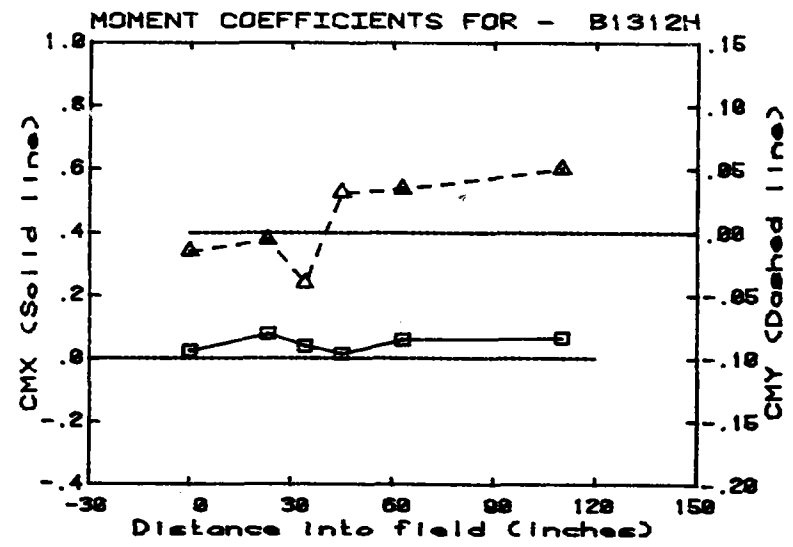
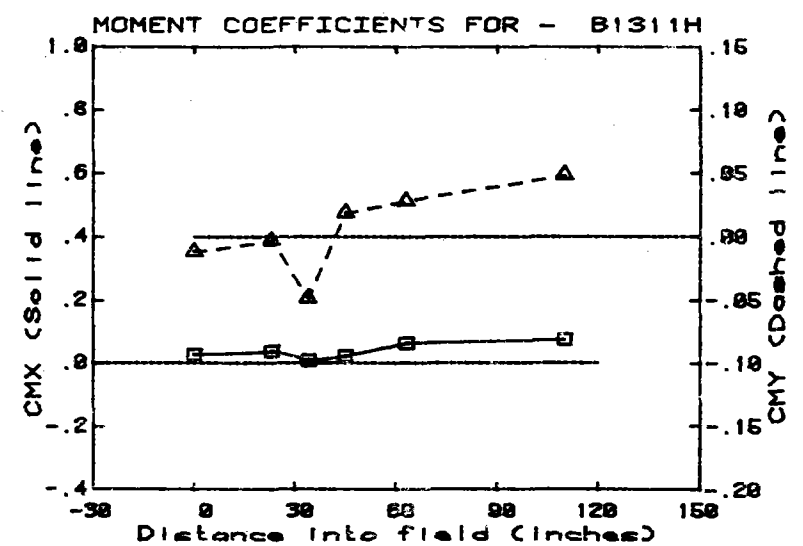
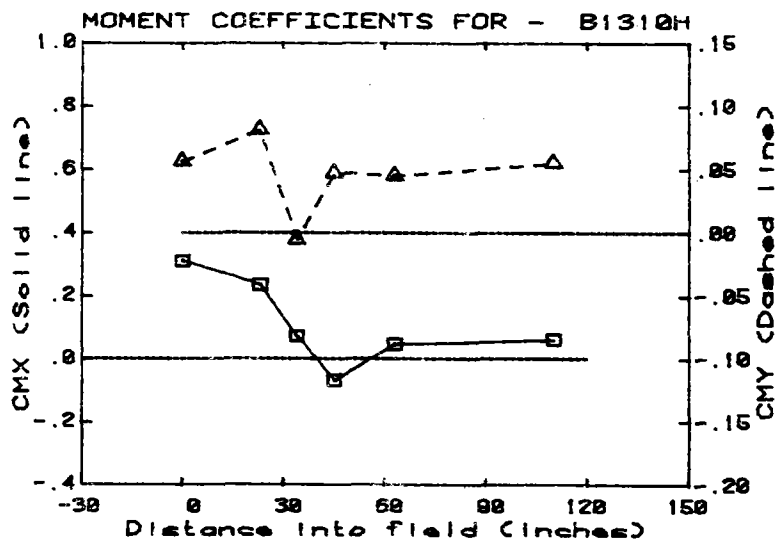
H = Instrumented Heliostat Moment Data File instead of a velocity profile

*short corner fence, H = 15 ft, 32% porosity, 120 ft long fence, placed 10 ft upstream of the regular fence at the upstream corner of the heliostat field (prototype dimensions).

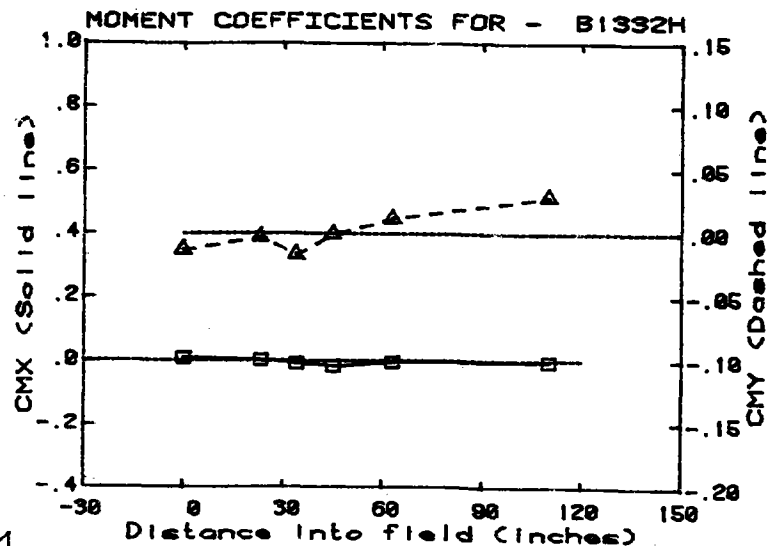
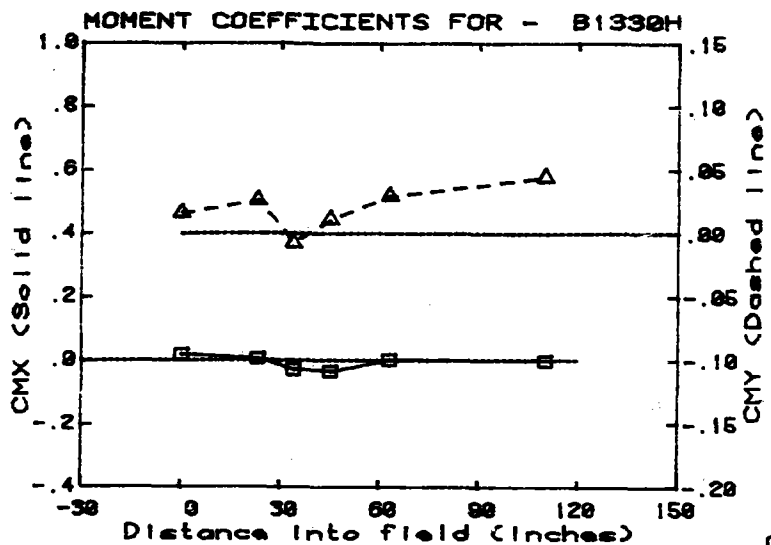
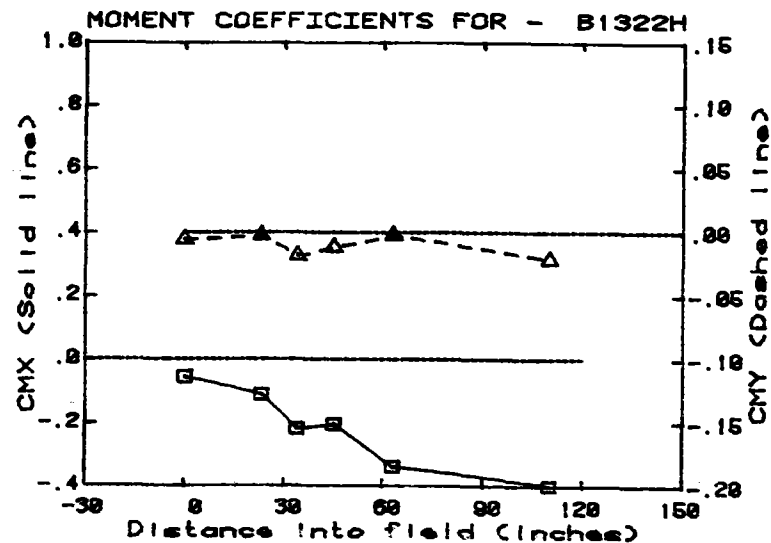
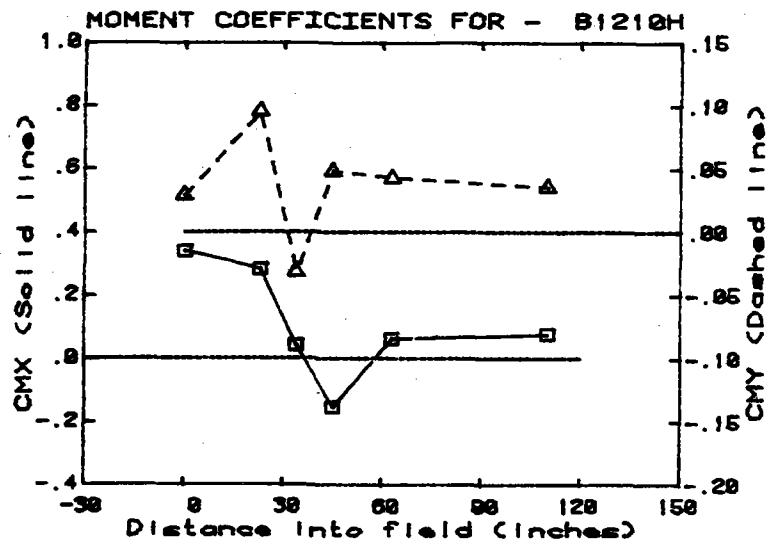
MOMENTS COEFFICIENT PLOTS

Graph Guide

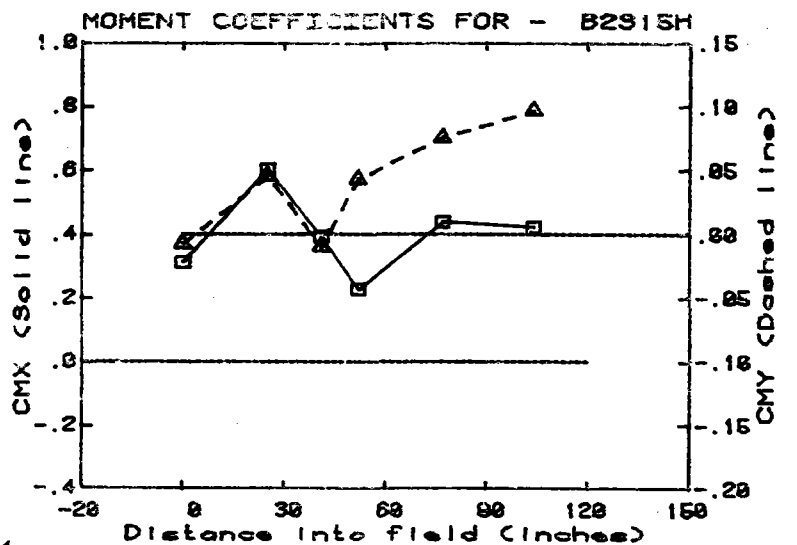
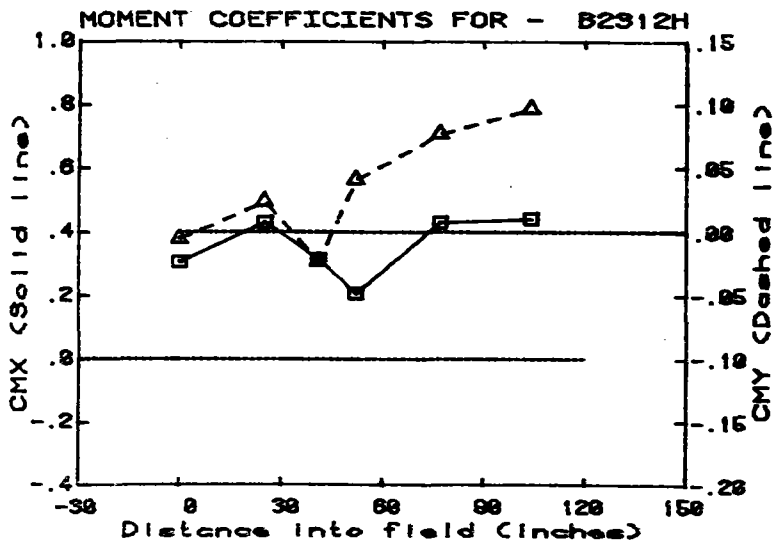
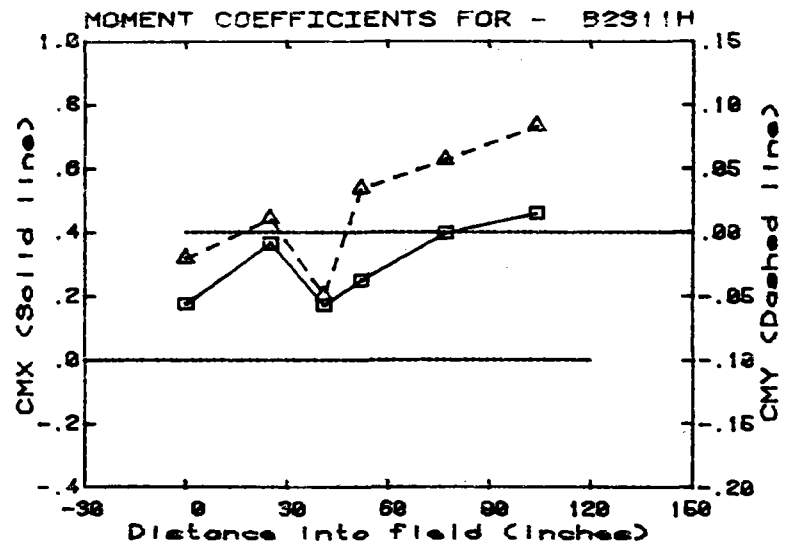
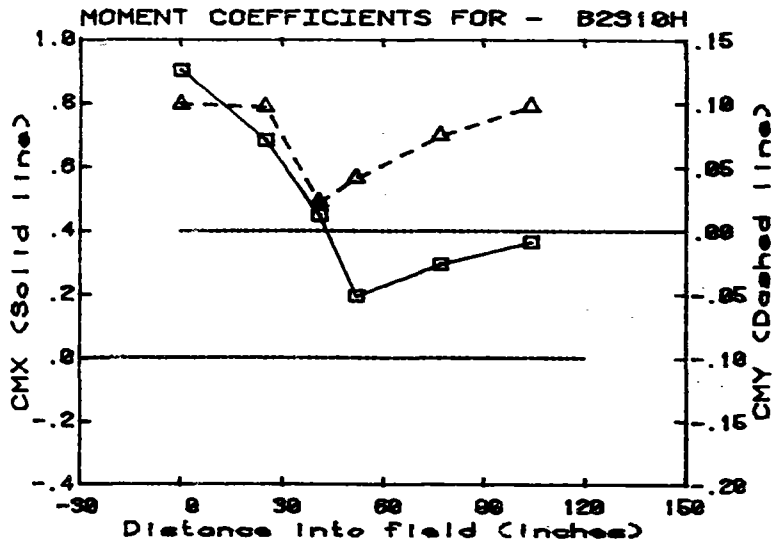
Graph Number	Upper Left	Upper Right	Lower Left	Lower Right
1M	B1310H	B1311H	B1312H	B1313H
2M	B1210H	B1322H	B1330H	B1332H
3M	B2310H	B2311H	B2312H	B2315H
4M	B2313H	B2322H		
5M	B3311H	B3312H	B3313H	B3315H
6M	B3110H	B3210H	B3310H	
7M	B3330H	B3332H	B3322H	B4322H
8M	B4310H	B4311H	B4312H	B4313H
9M	B5310H	B5311H	B5312H	B5313H
10M	B5210H	B5322H	B5330H	B5332H
11M	B6310H	B6311H	B6312H	B6313H
12M	B6316H	B6317H	B6318H	B6340H
13M	B6320H	B6322H	B6330H	B6332H
14M	A1312H	A2312H		
15M	A3310H	A3312H	A3315H	A4312H
16M	A5310H	A5312H	A6310H	A6312H
17M	A1322H	A2322H		
18M	A3320H	A3322H	A3325H	A4322H
19M	A5320H	A5322H	A6320H	A6322H
20M	A3330H	A3332H	A5330H	A5332H



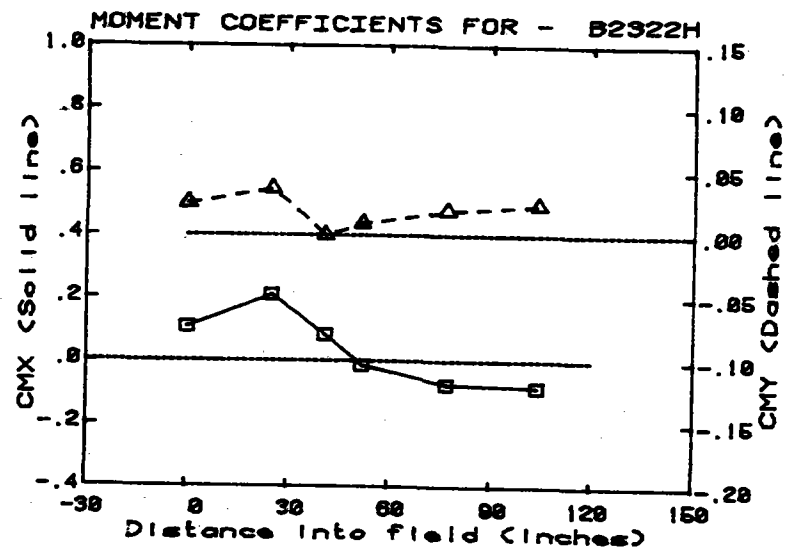
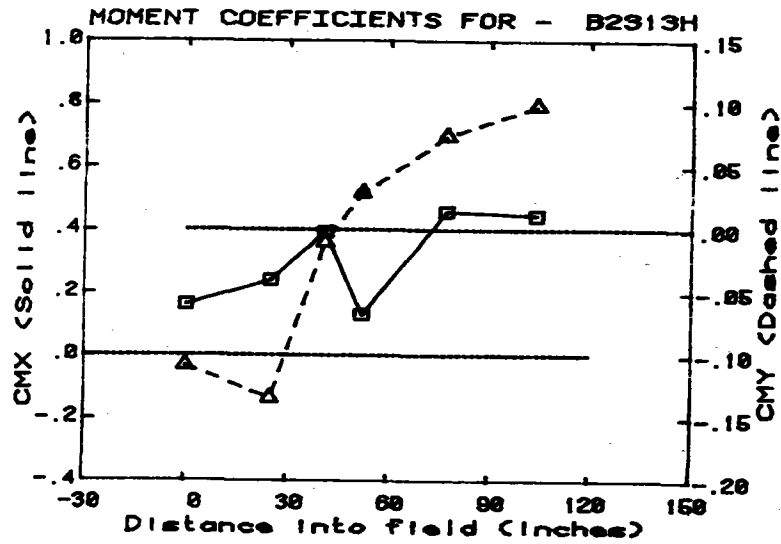
GRAPH 1M



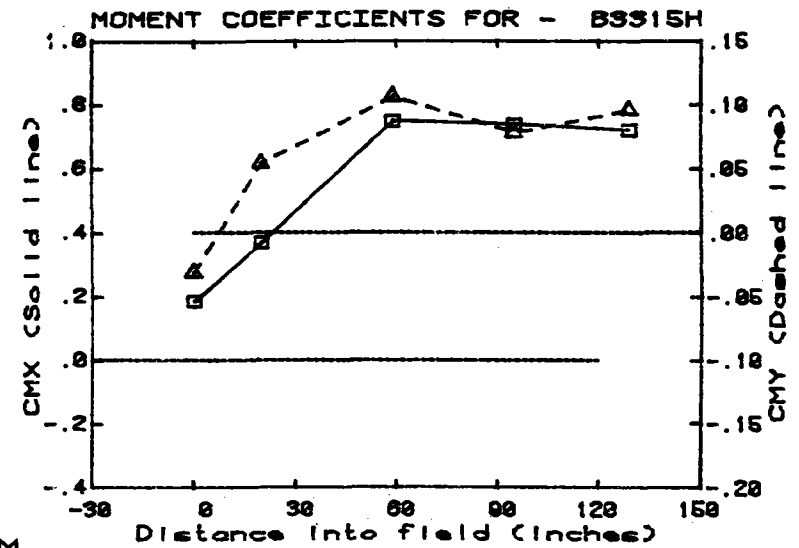
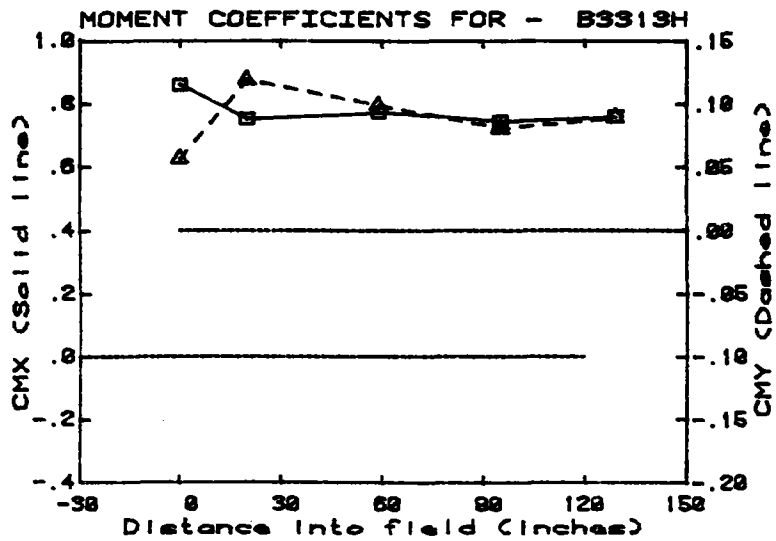
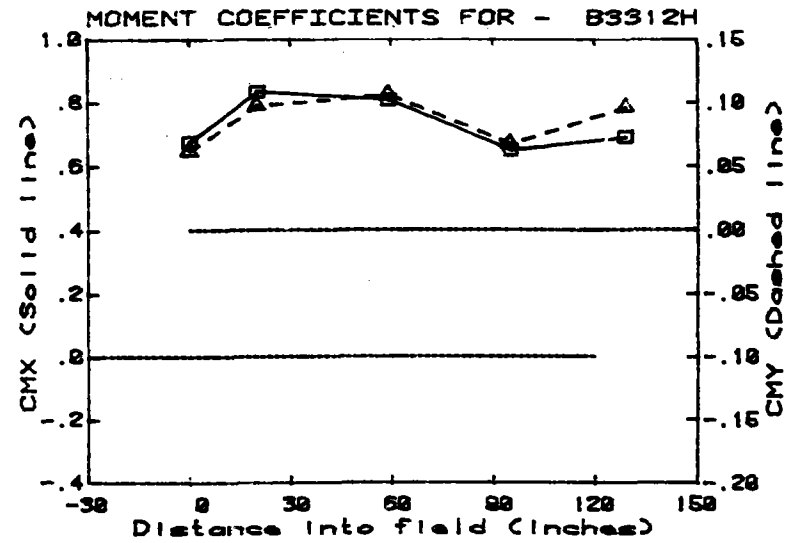
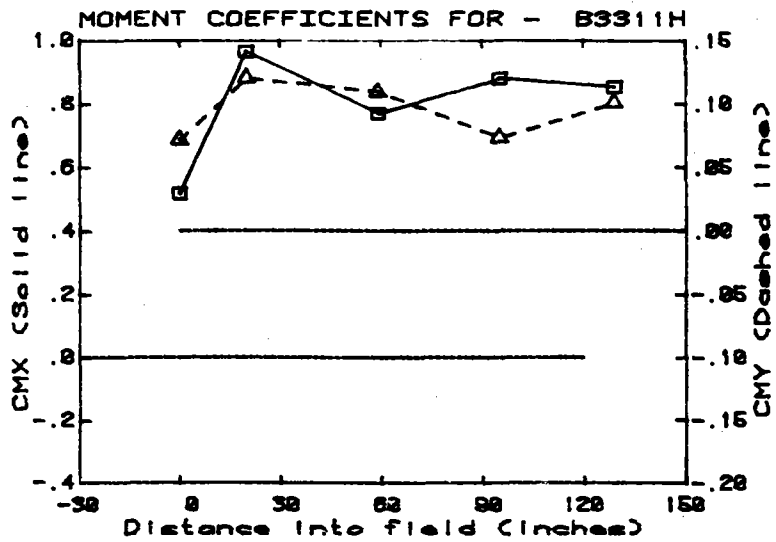
GRAPH 2M



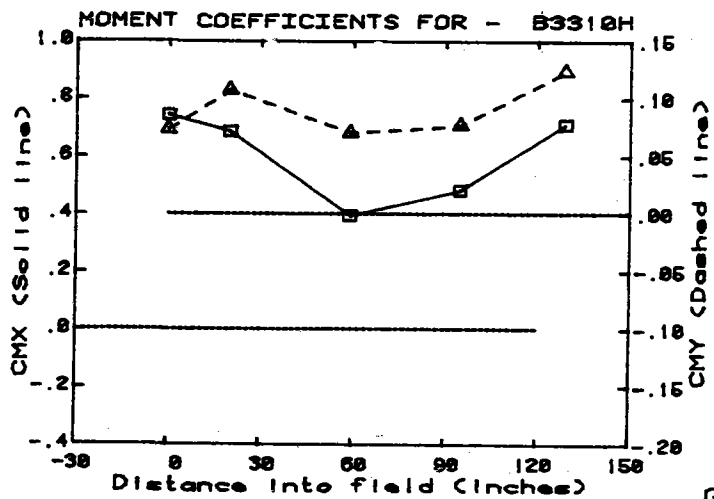
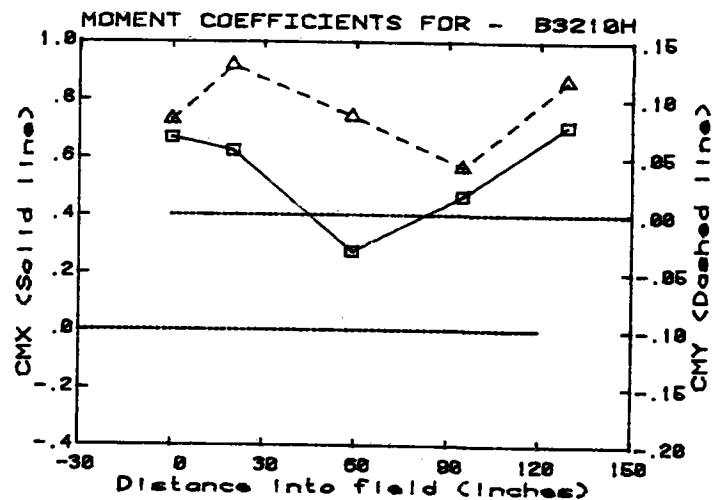
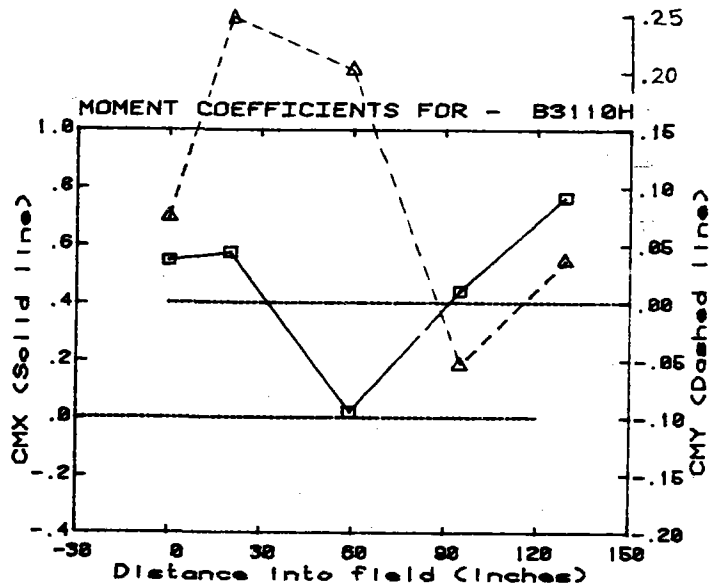
GRAPH 3M



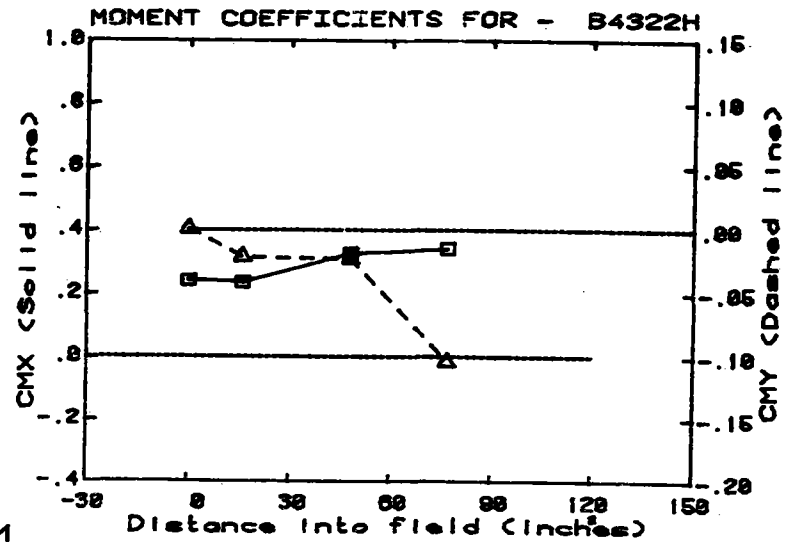
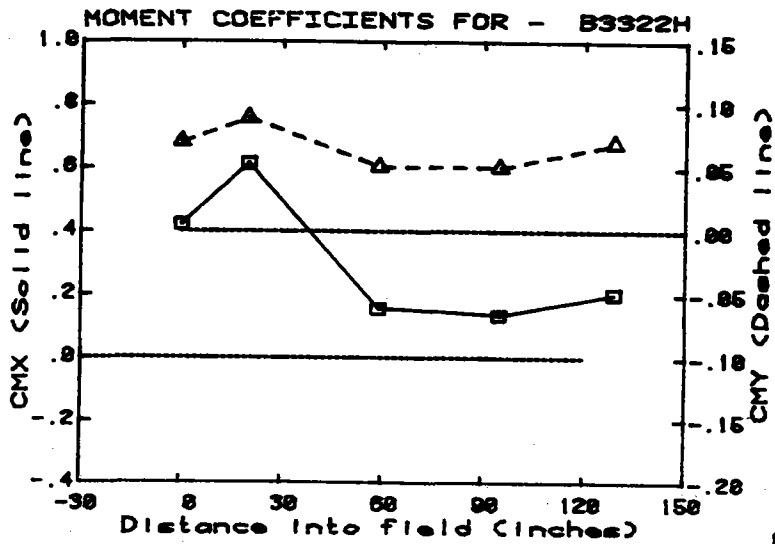
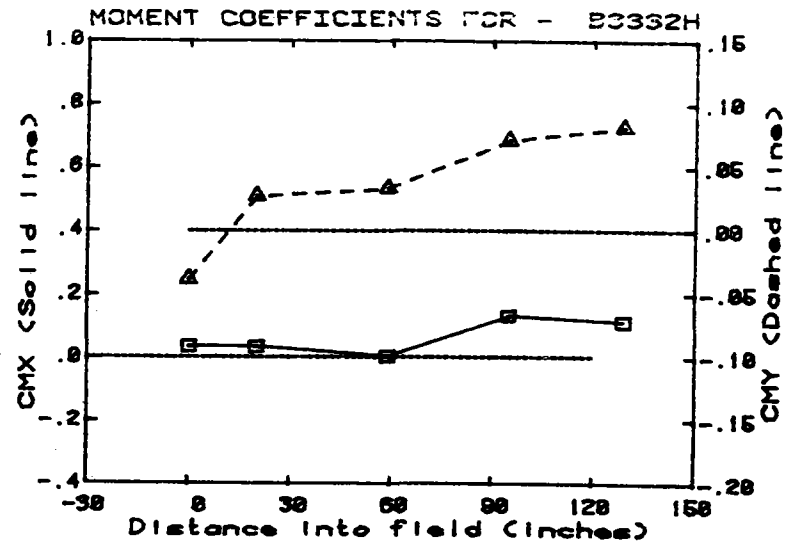
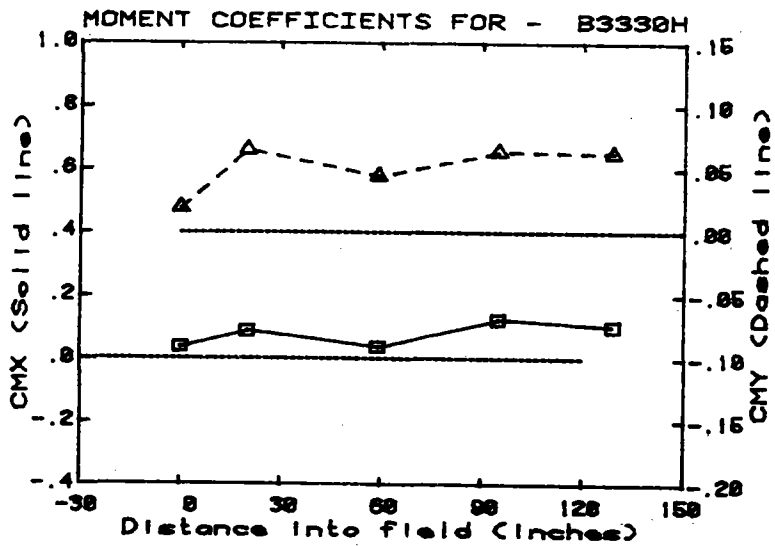
GRAPH 4M



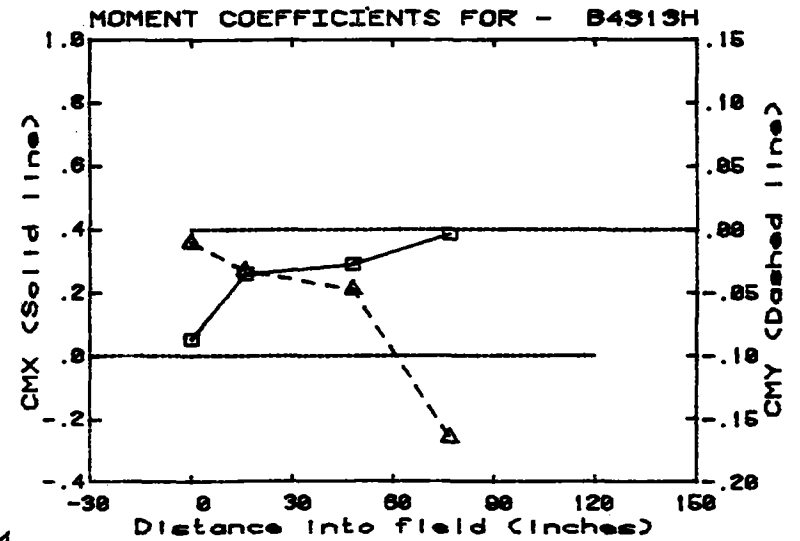
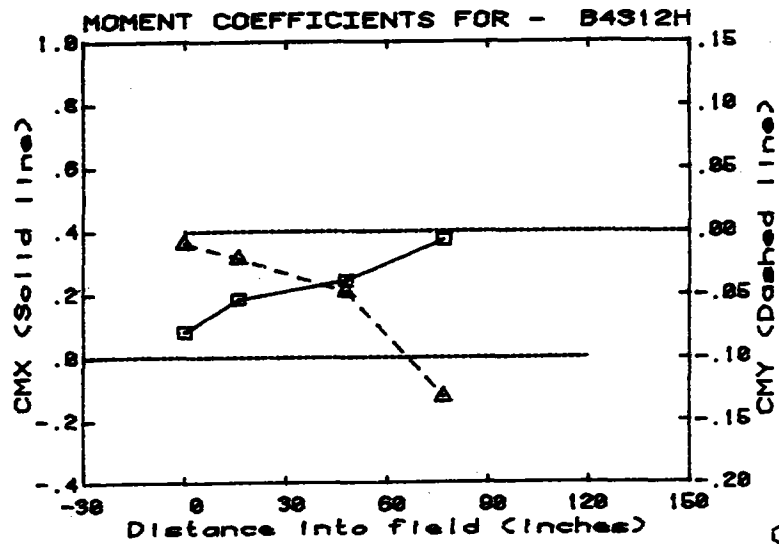
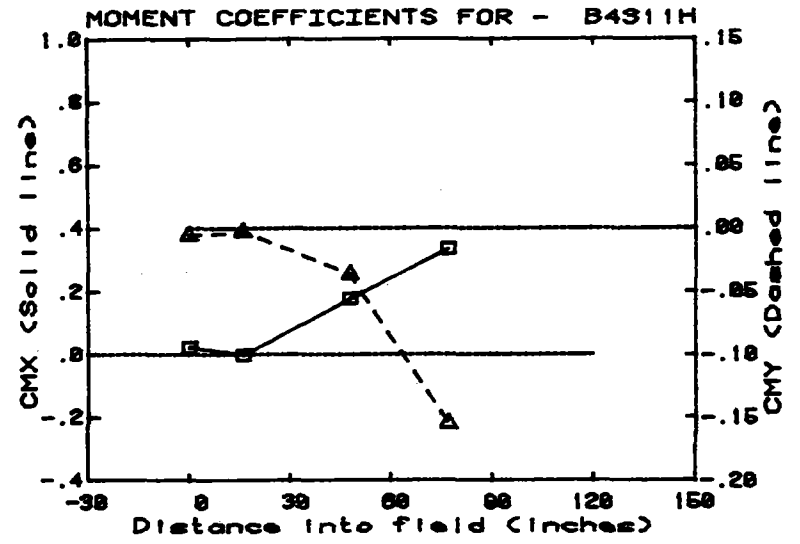
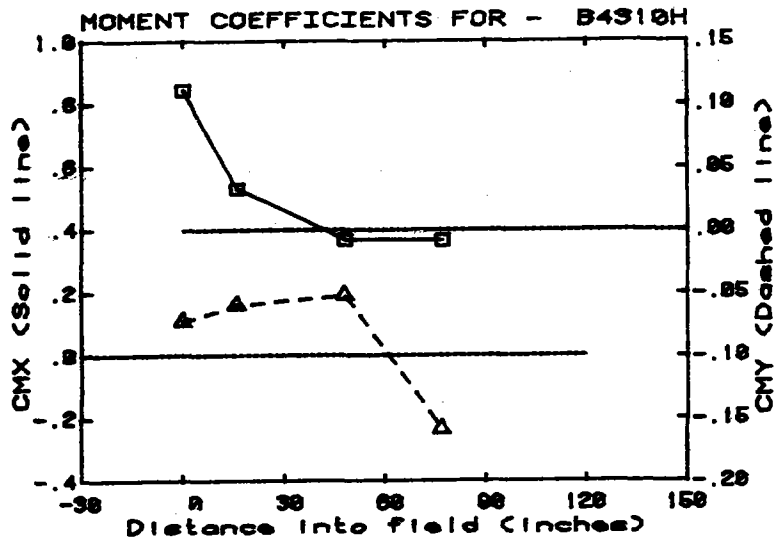
GRAPH 5M



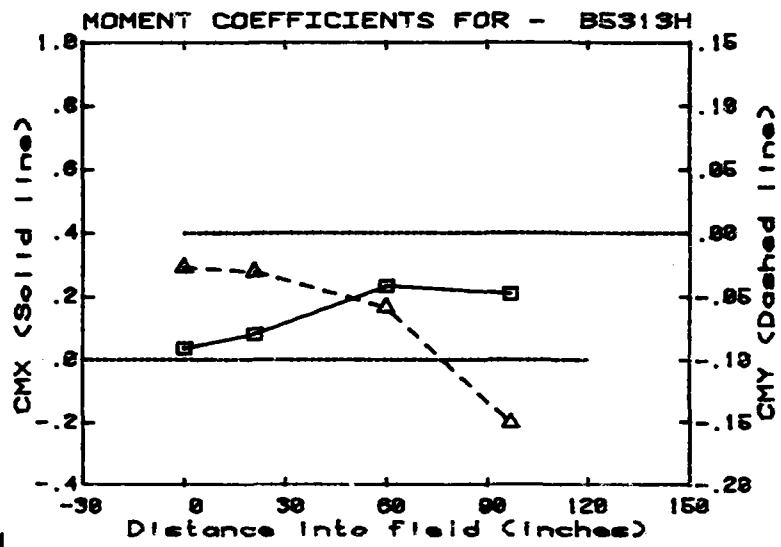
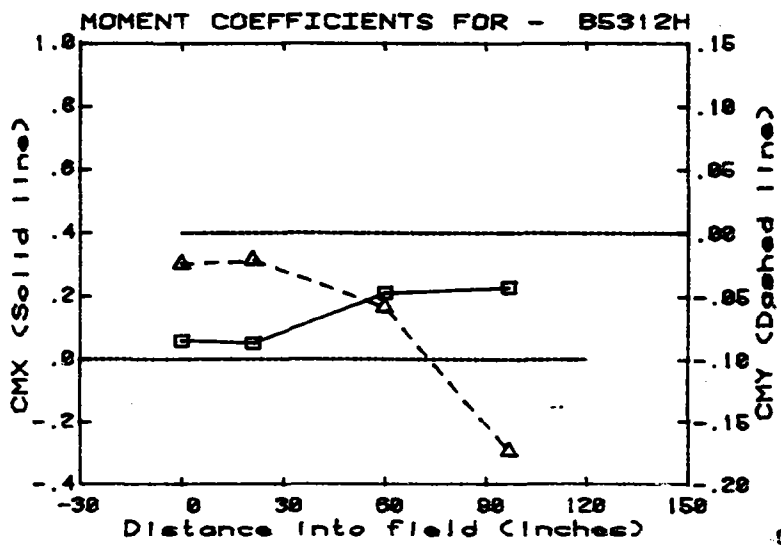
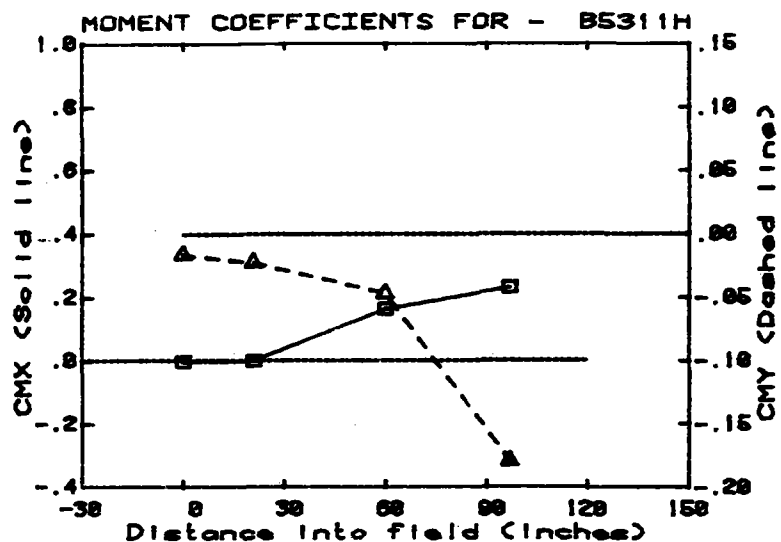
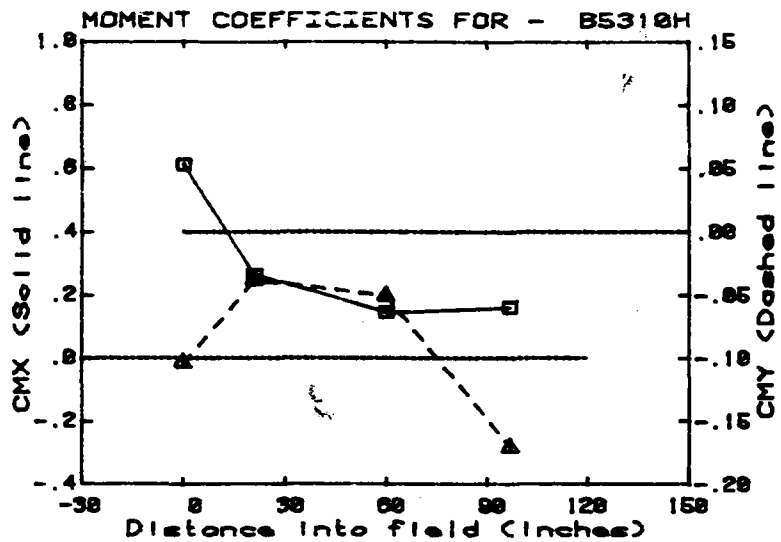
GRAPH 6M



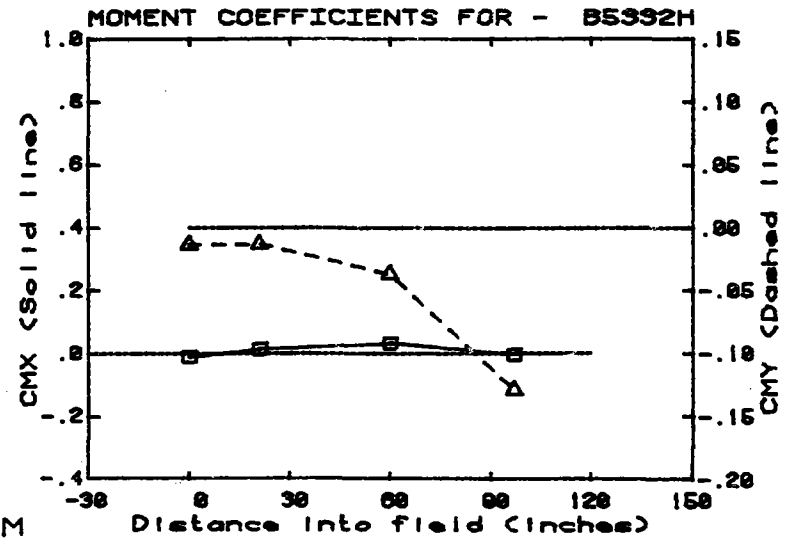
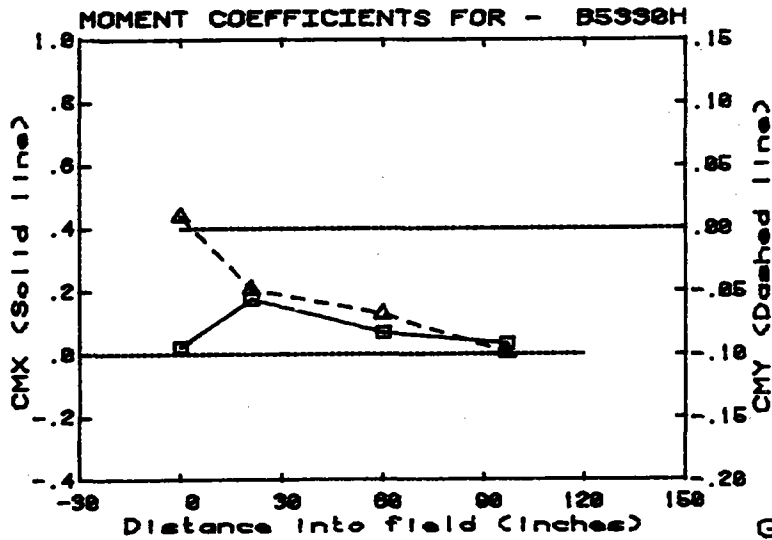
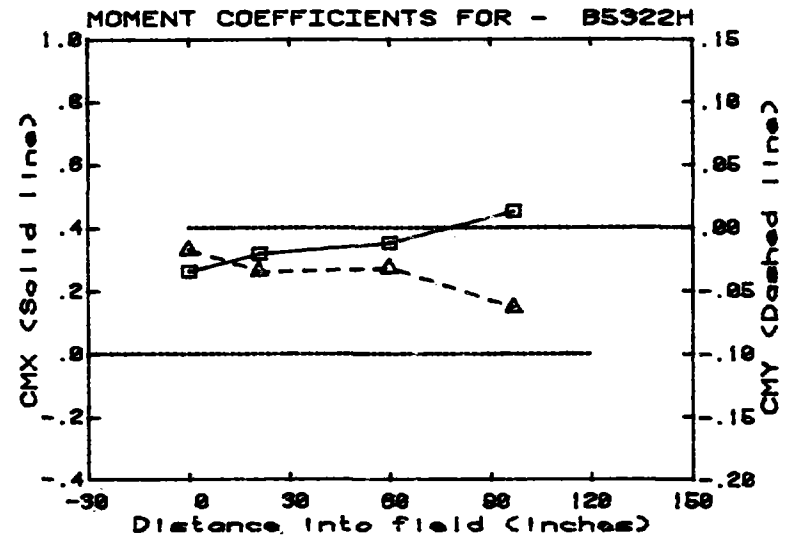
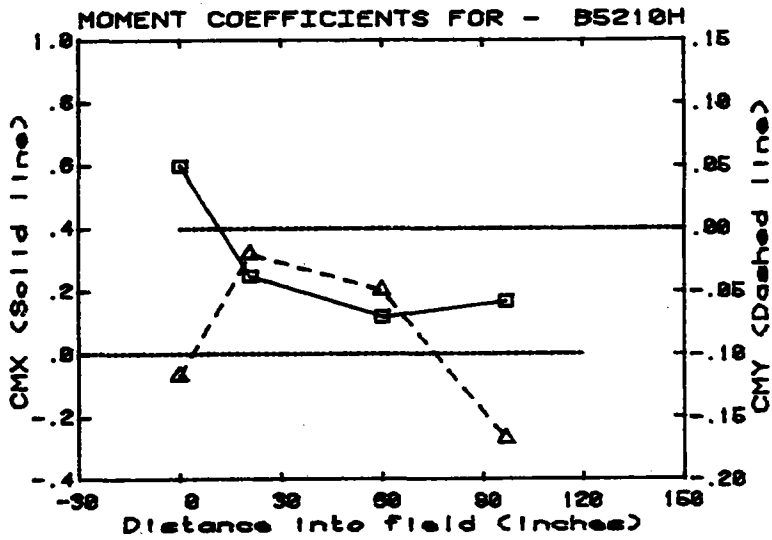
GRAPH 7M



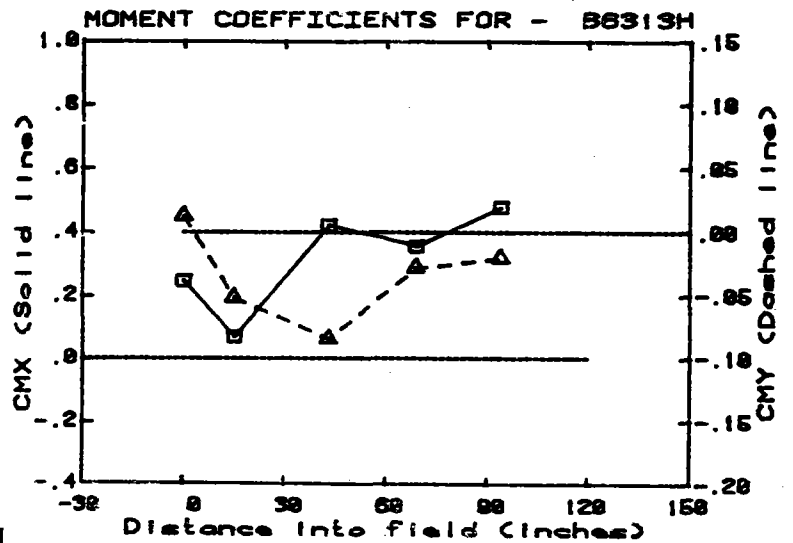
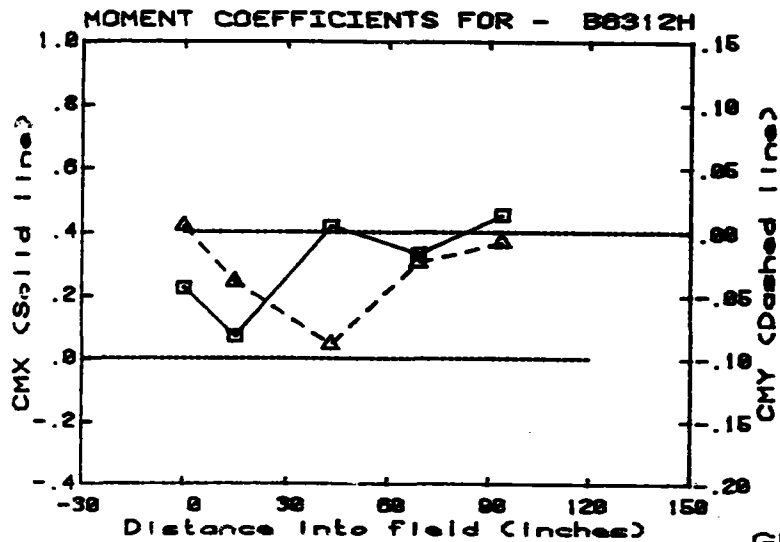
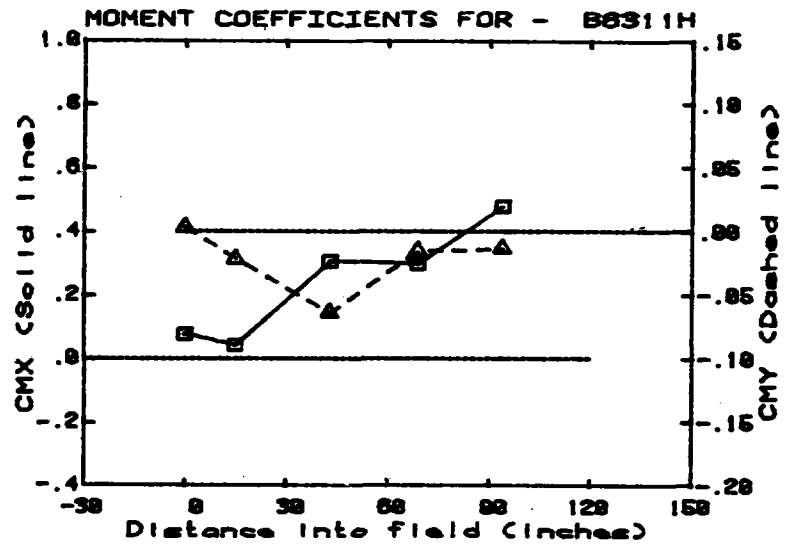
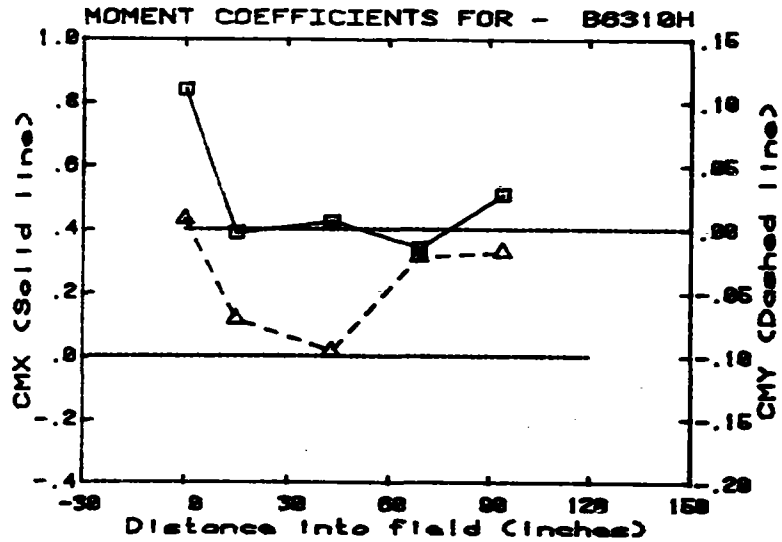
GRAPH 8M



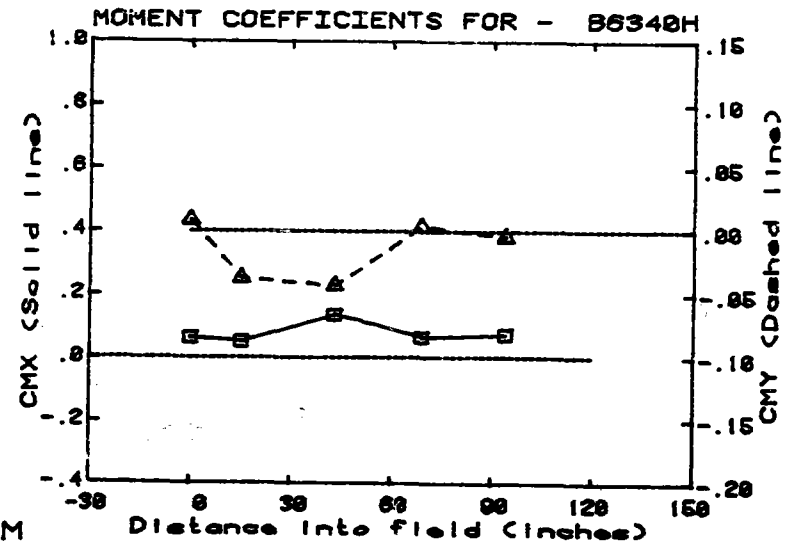
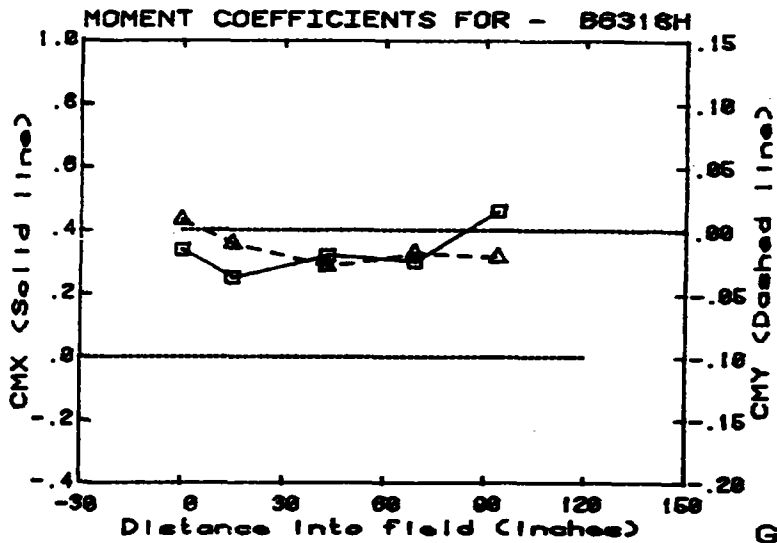
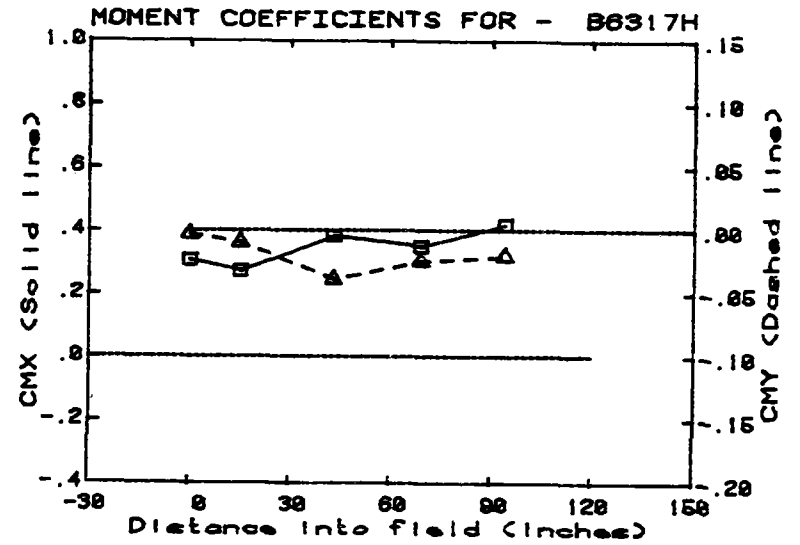
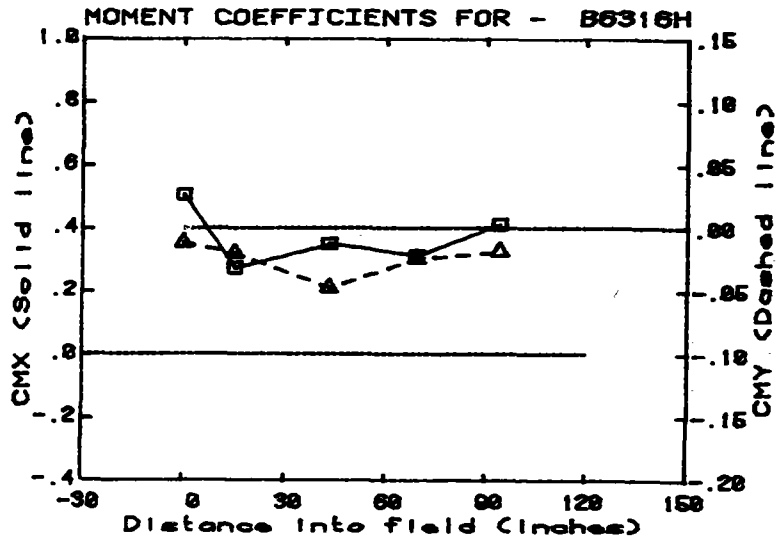
GRAPH 9M



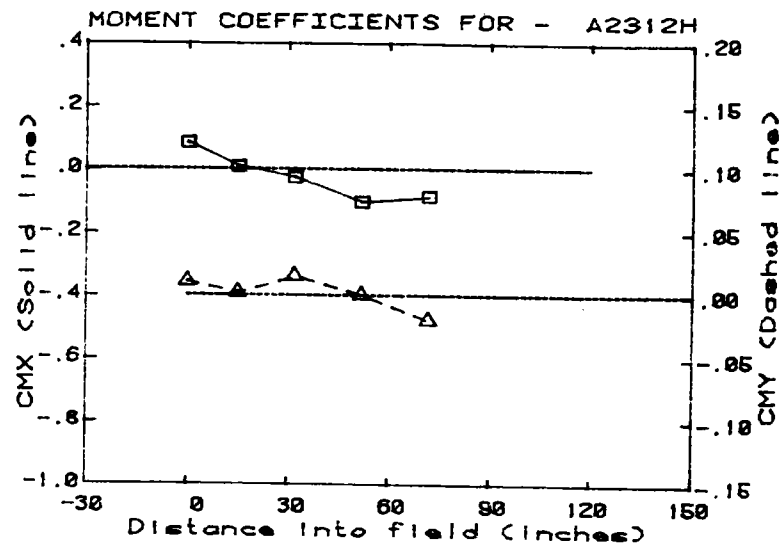
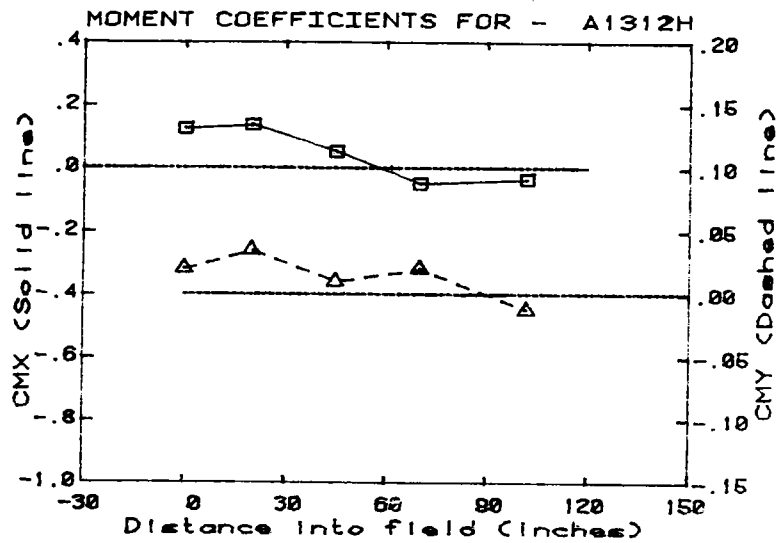
GRAPH 10M



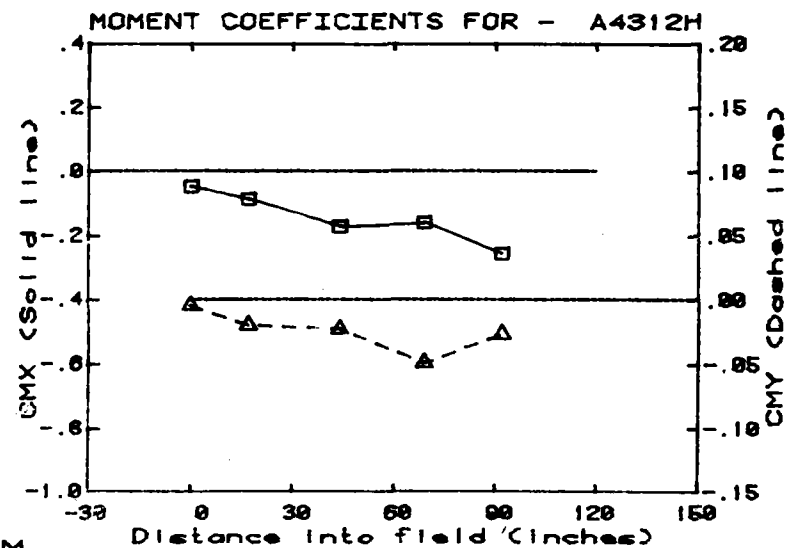
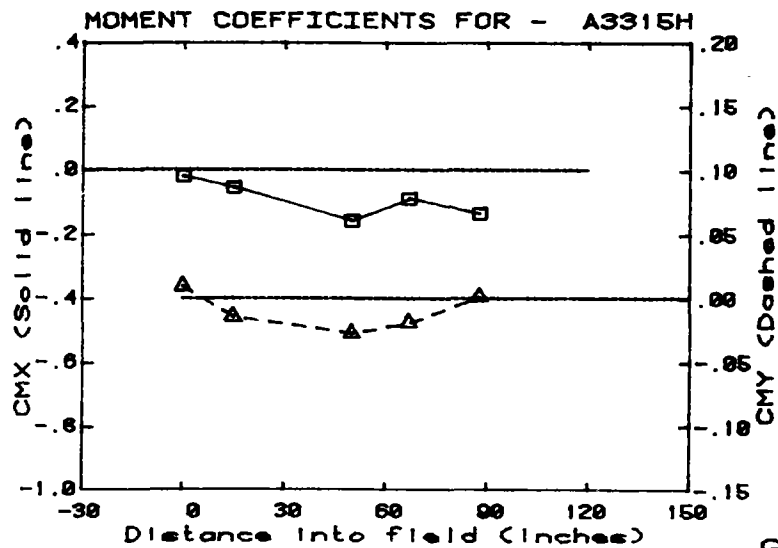
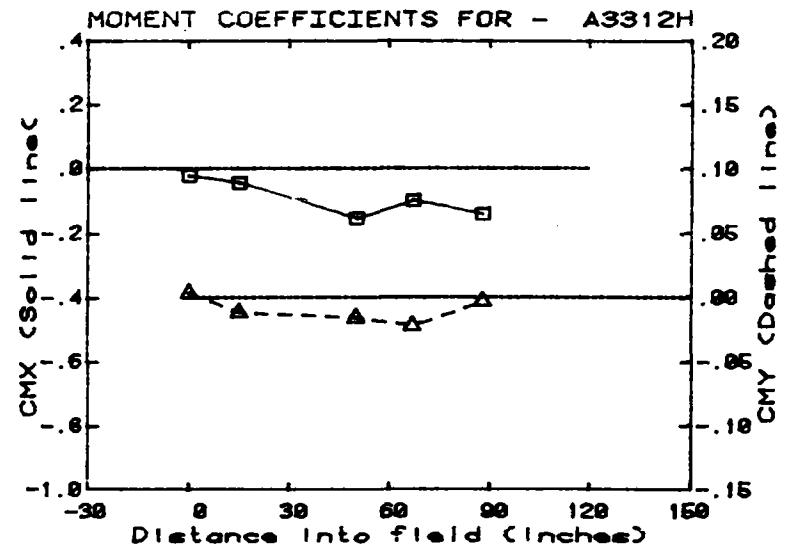
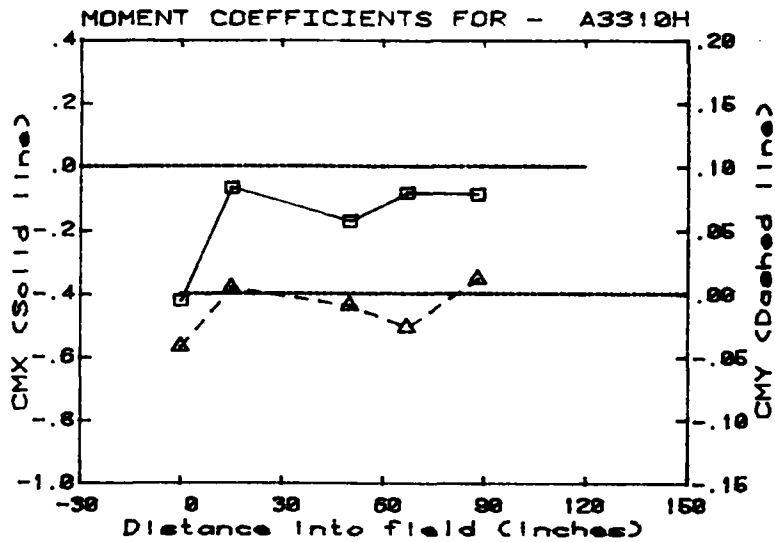
GRAPH 11M



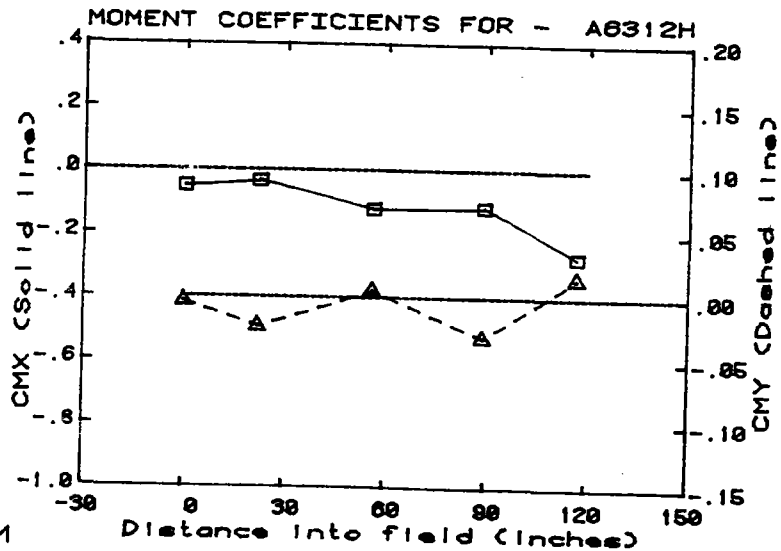
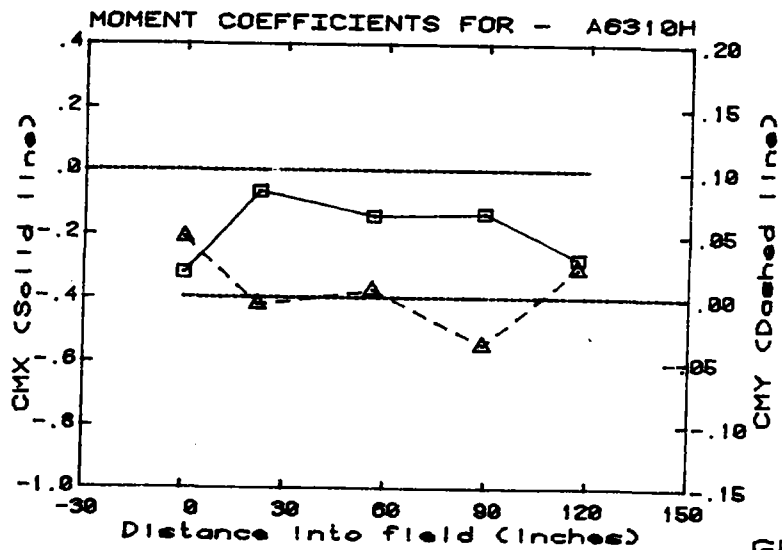
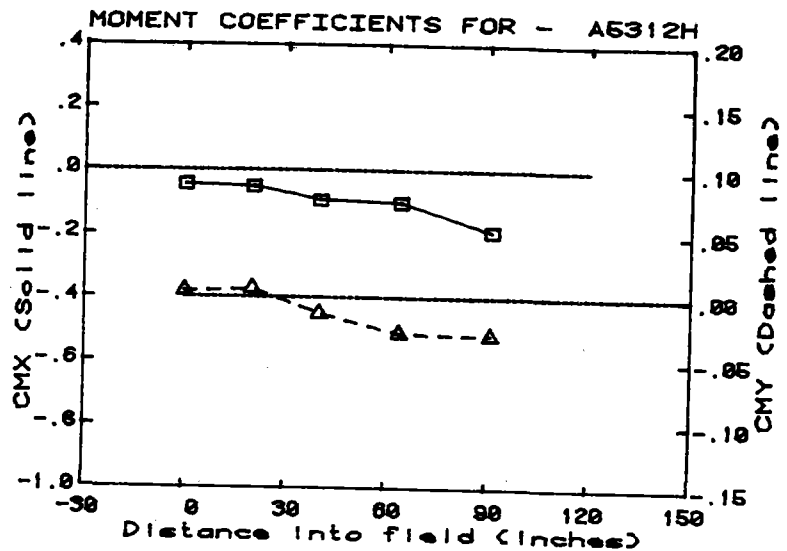
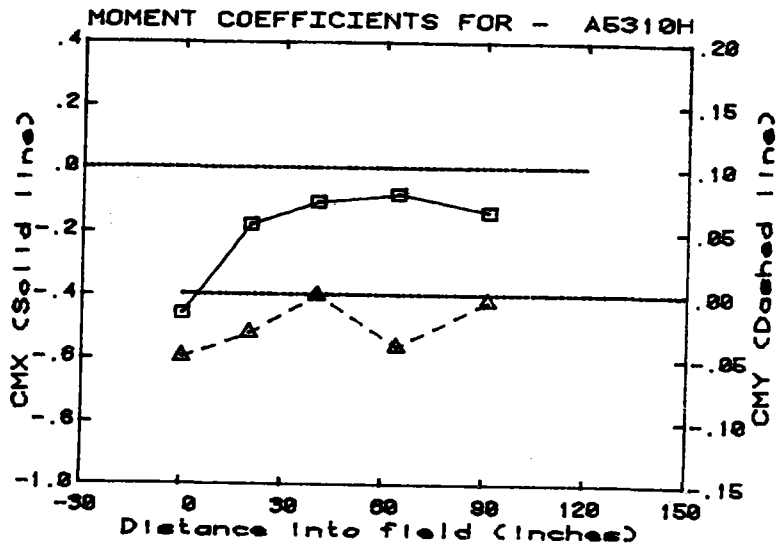
GRAPH 12M



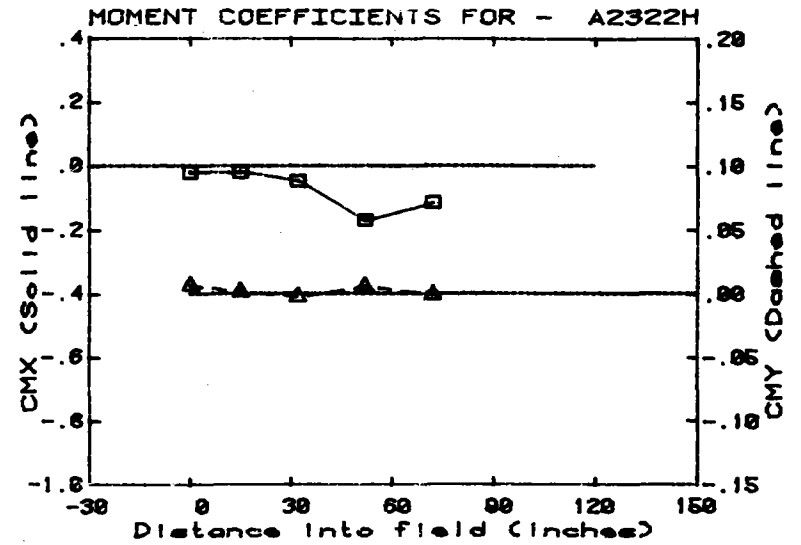
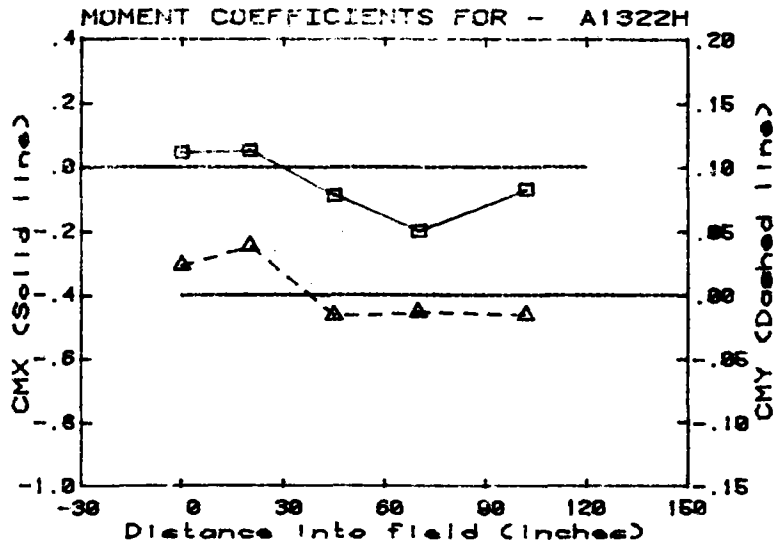
GRAPH 14M



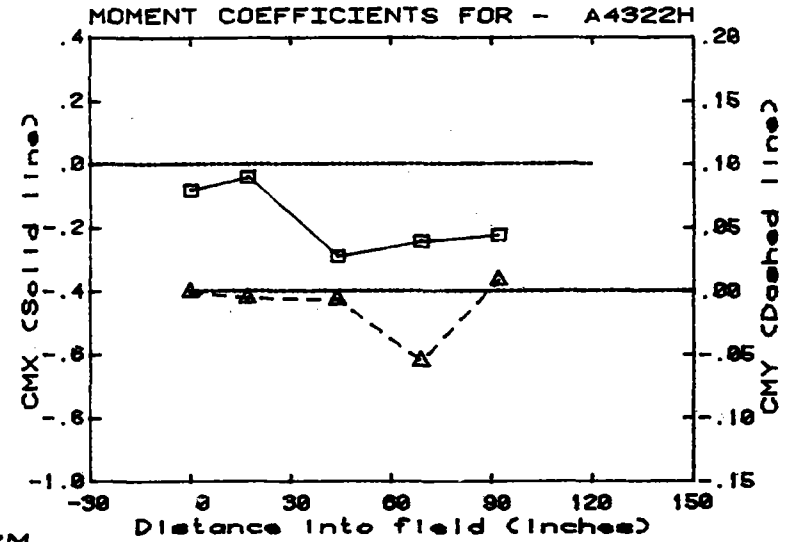
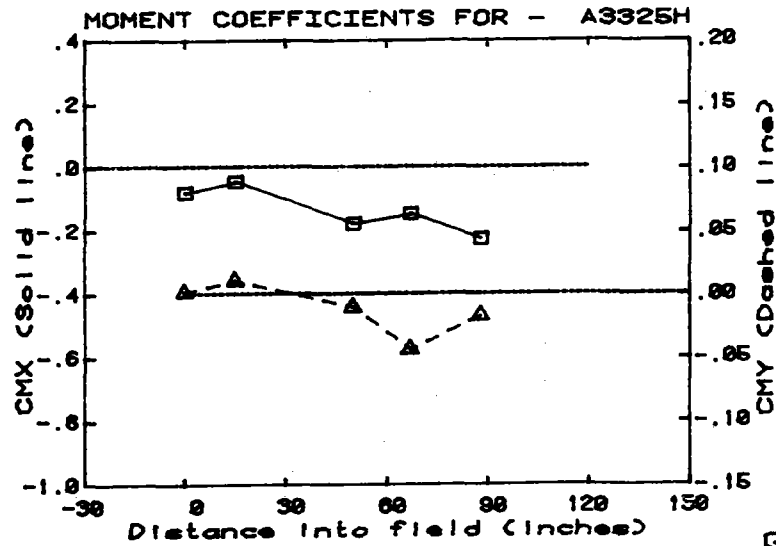
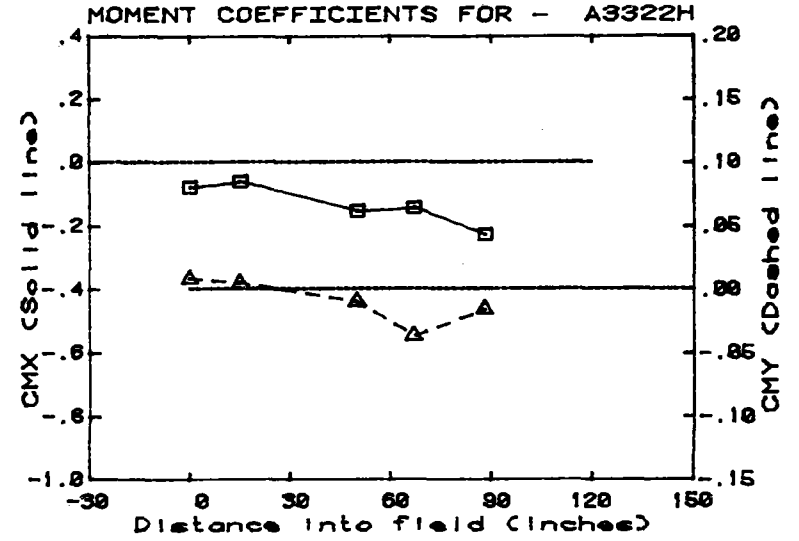
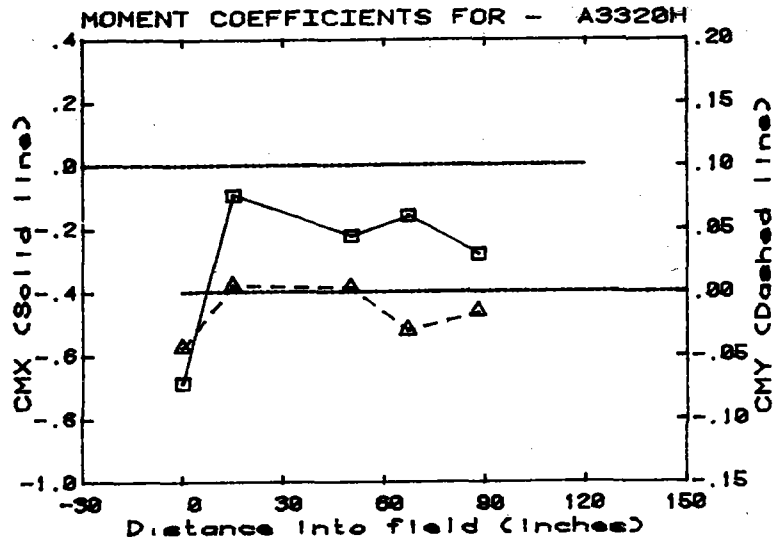
GRAPH 15M



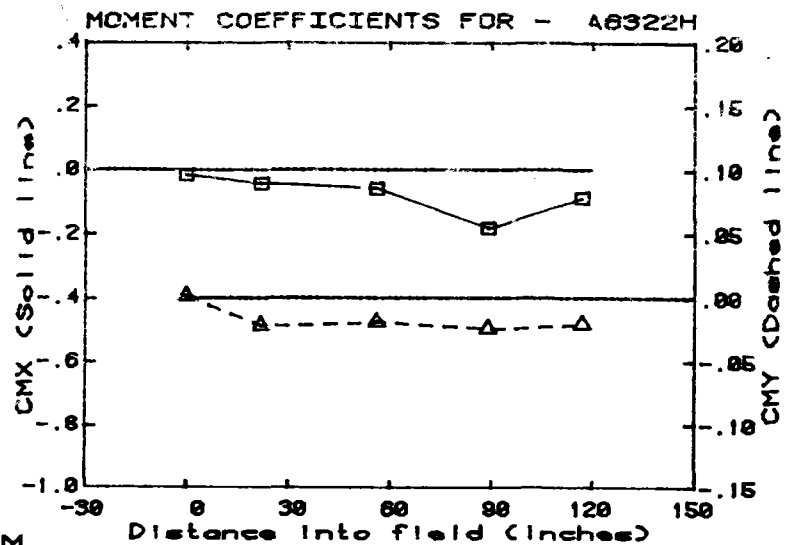
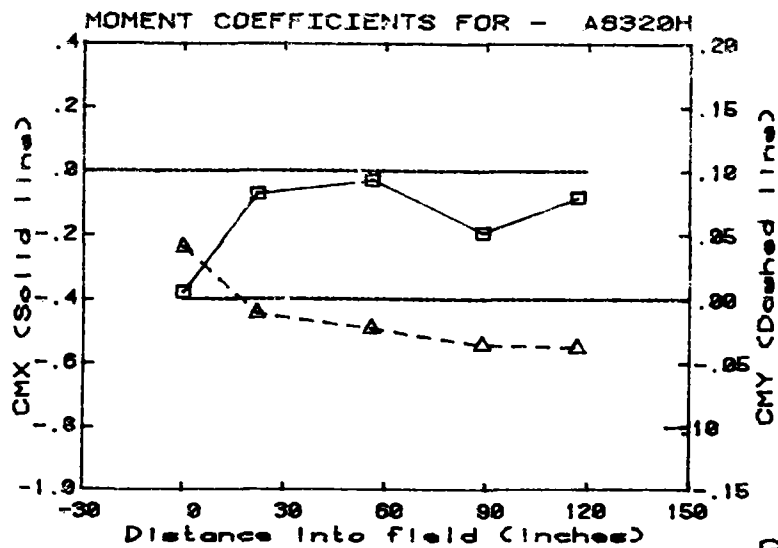
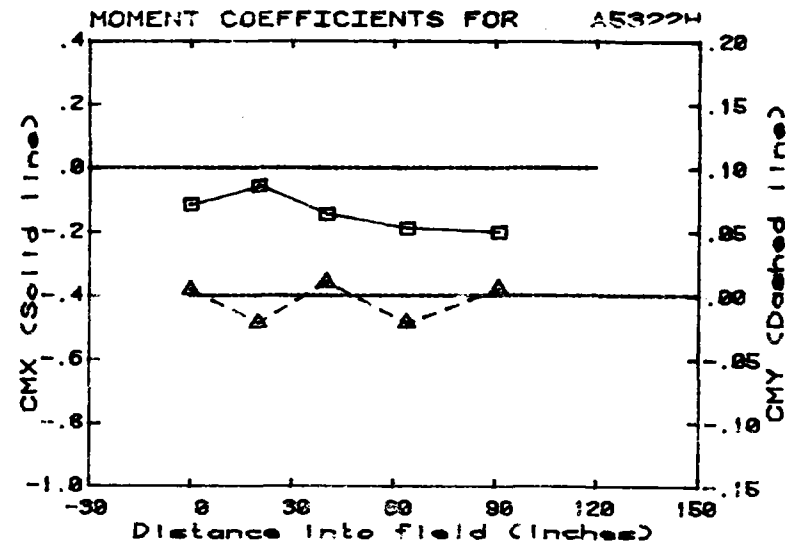
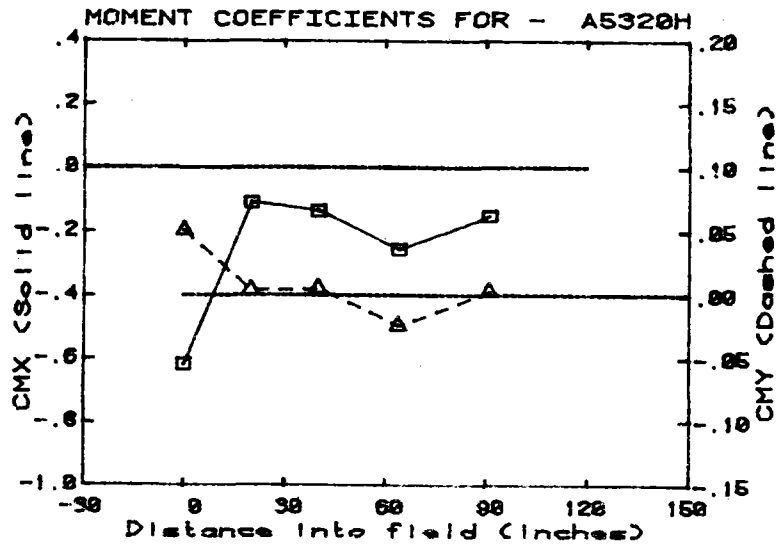
GRAPH 16M



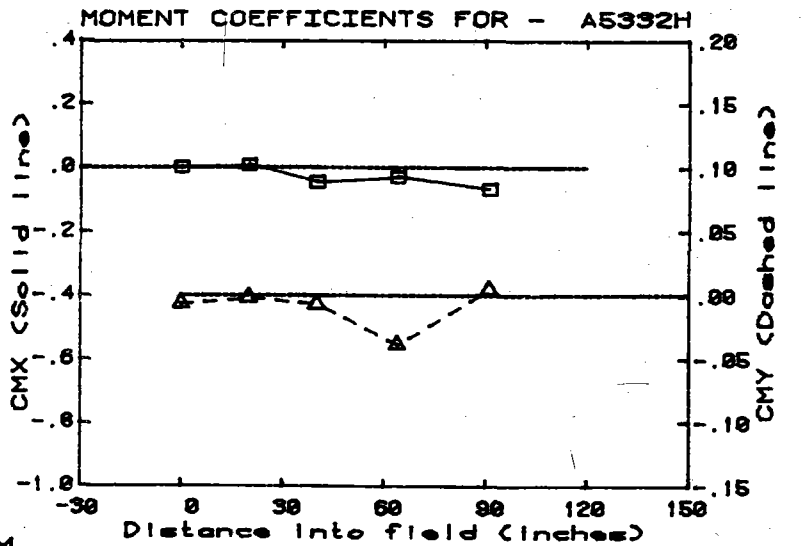
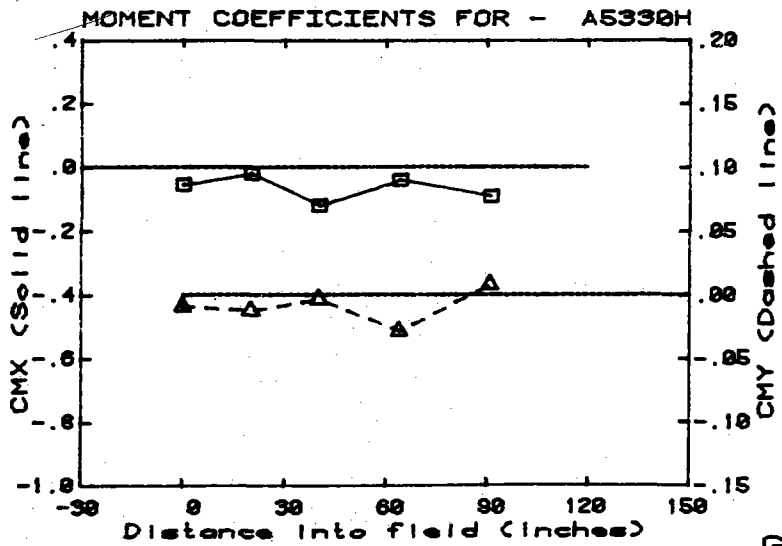
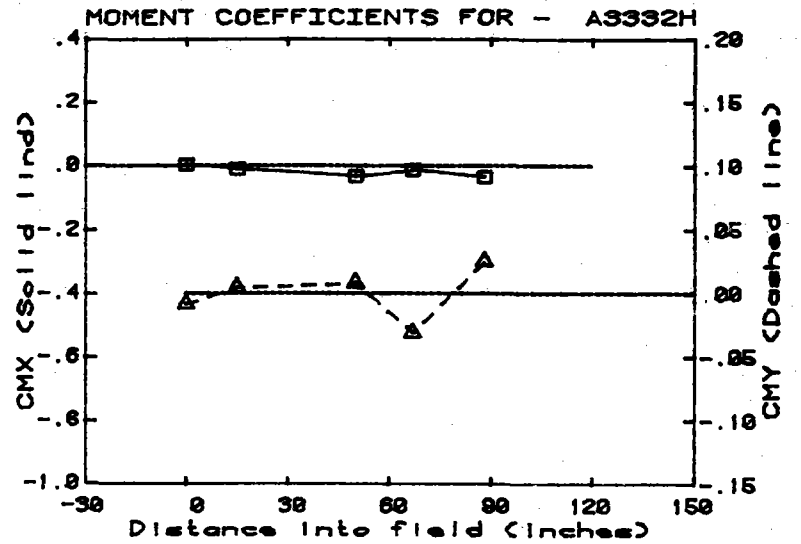
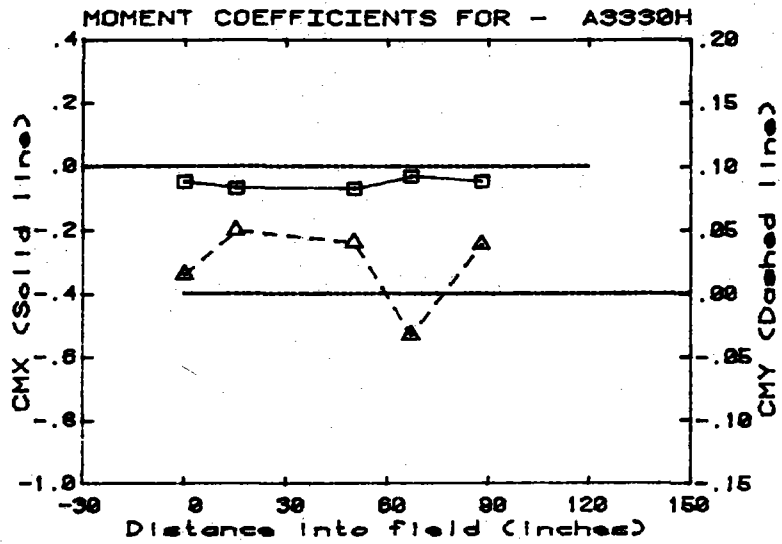
GRAPH 17M



GRAPH 16M



GRAPH 10M



GRAPH 20M