

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.)
$\rho$	Density of air
$\nu$	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
$U_{\infty}$	Reference mean velocity outside the boundary layer
Z	Height above surface
$\delta$	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  $\delta$  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 ( $87^\circ$  and  $93^\circ$  alternating pitches) with an alternate stowed (all pitches  $90^\circ$ ) 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  $\pm 0.8$  for CMX and  $\pm 0.10$  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 ( $87^\circ$  and  $93^\circ$  pitch alternating rows) and the alternate stowed (all pitch  $90^\circ$ ) 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.



## References

1. Cermak, J. E., "Laboratory Simulation of the Atmospheric Boundary Layer," AIAA J1., Vol. 9, September 1971.
2. Cermak, J. E., "Applications of Fluid Mechanics to Wind Engineering," A Freeman Scholar Lecture, ASME J1. of Fluids Engineering, Vol. 97, No. 1, March 1975.
3. Cermak, J. E., "Aerodynamics of Buildings," Annual Review of Fluid Mechanics, Vol. 8, 1976, pp. 75-106.
4. "Summary of Hourly Observations, Bakersfield, California," 1956-1960, U.S. Weather Service.
5. "Wind in California," California Dept. of Water Resources, Bulletin No. 185, January 1978.
6. Data sheets for China Lake and Edwards AFB, unknown origin, supplied by Colorado State Climatologist.
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 ( $\approx 10$ fps)
B	West (270)	12:00 (Noon)	20 30	0 0-3	1-5 1-5	1 4	5
B	WNW (292.5)	12:00 (Noon)	30 ↓	0-3 → 5	1-5 3	4 1	
B	NW (315)	12:00 (Noon)	10 20 30 ↓	0 0 0-3 → 5	1-5 1-5 1-5 3	1 1 4 1	3
B	NNE (22.5)	12:00 (Noon)	30	0-3	1-5	4	3
B ↓	NE (45)	12:00 (Noon)	20 30	0 0-3	1-5 1-5	1 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 2	1-5 1-5	1 1	
B ↓	NW ↓	Stowed ↓	30 ↓	0 2	1-5 1-5	1 1	
B ↓	NE ↓	Stowed ↓	30 ↓	0 2	1-5 1-5	1 1	
B	North (000)	12:00 (Noon)	30	0 1,3,6,7,8 2	1-5 1 1-5	1 5 1	
		4:00 P.M.	30	0 2	1-5 1-5	1 1	
		Stowed	30	0 2	1-5 1-5	1 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	
<b>Total</b>					<b>331</b>	<b>73</b>	<b>17</b>

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.

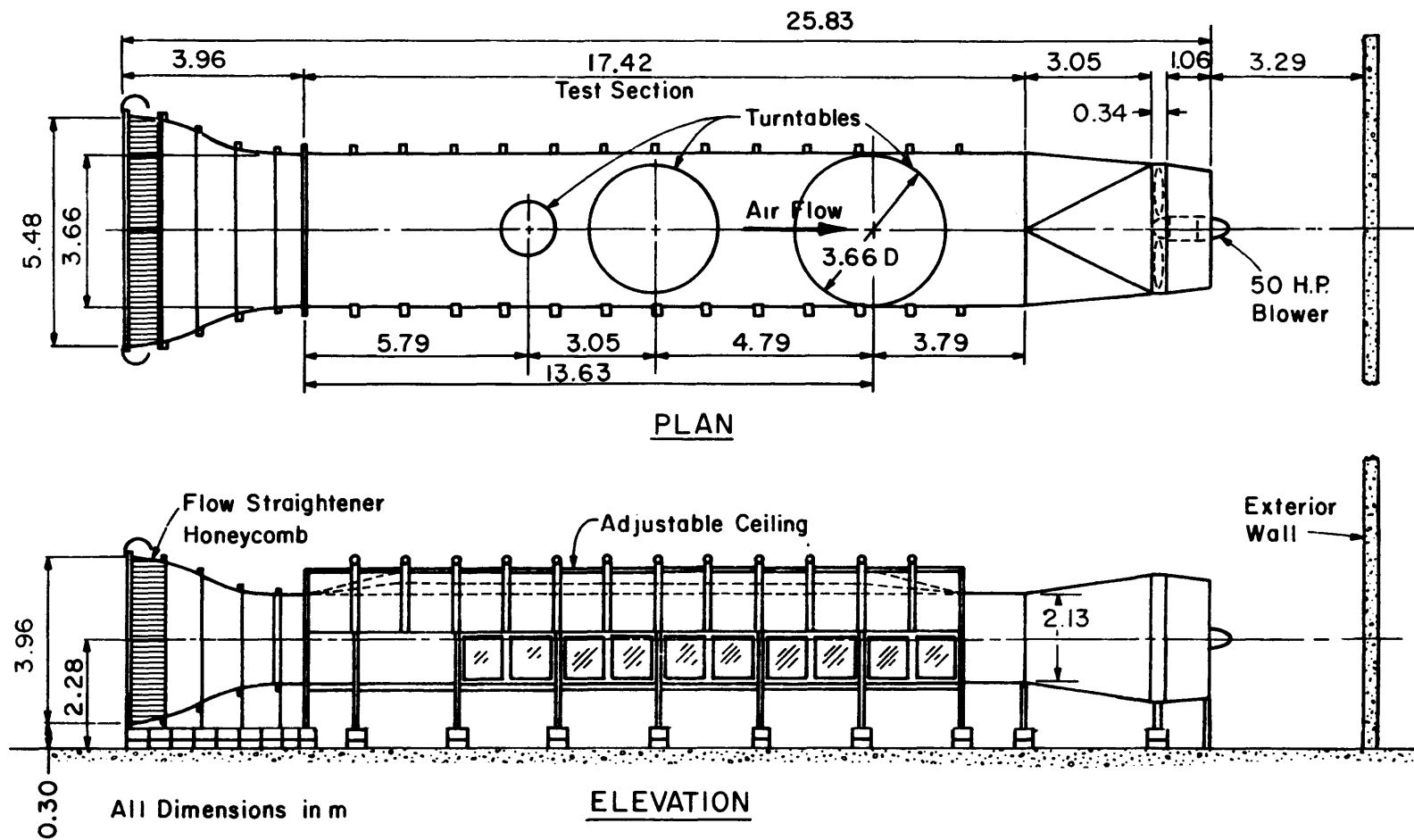


Figure 1. Environmental Wind Tunnel.

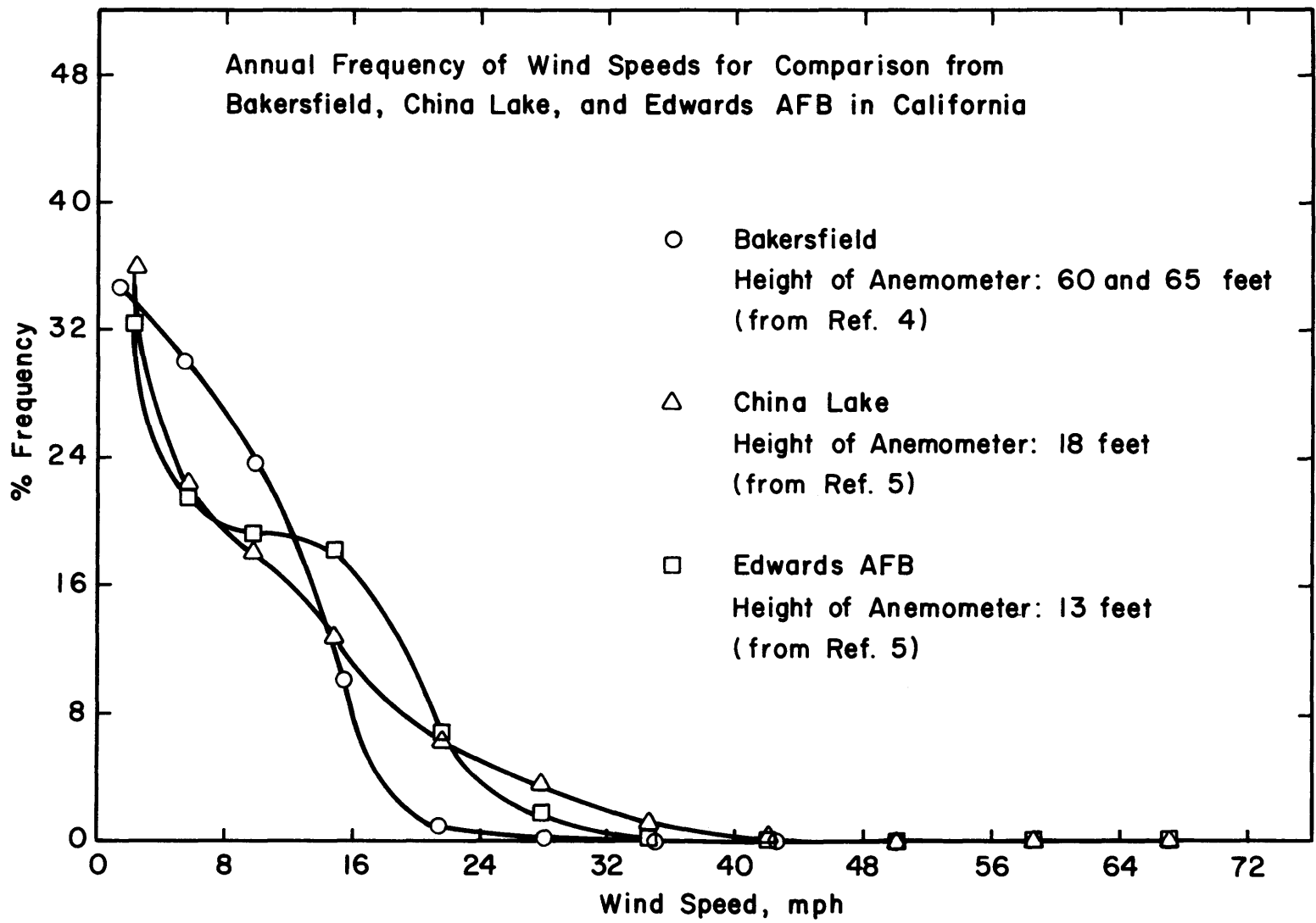


Figure 2a. Field Site Wind Data.

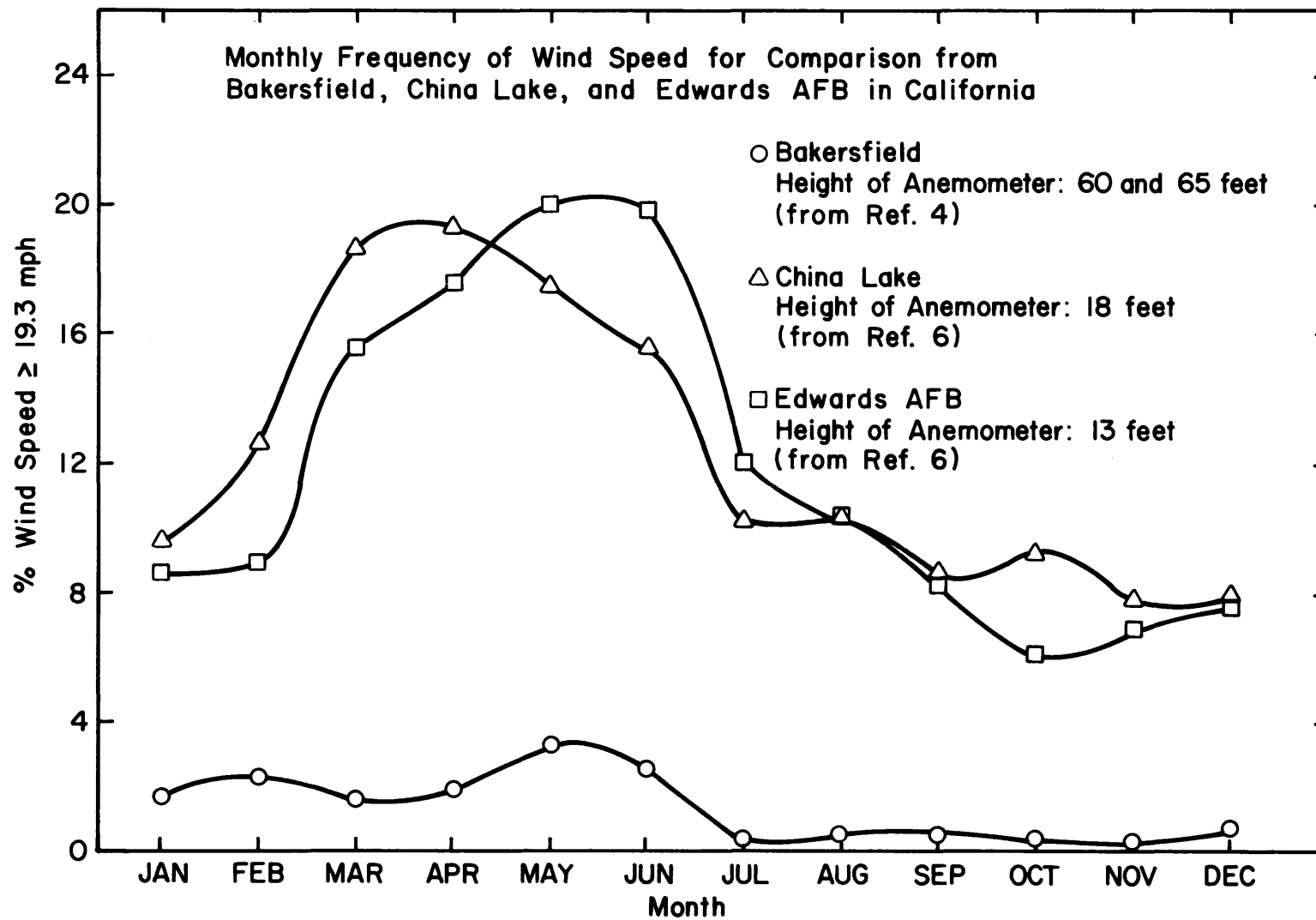


Figure 2b. Field Site Wind Data.

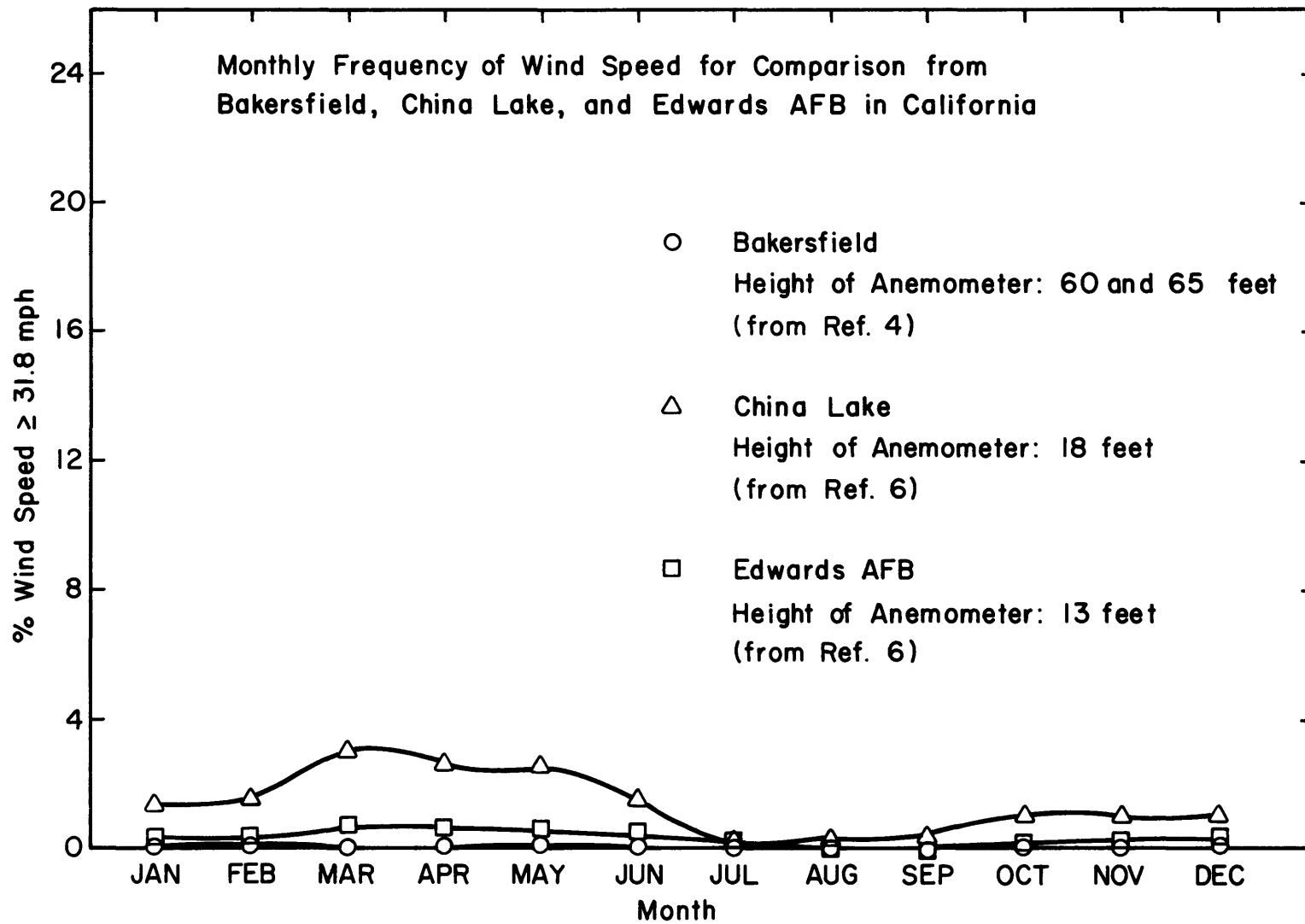


Figure 2c. Field Site Wind Data.



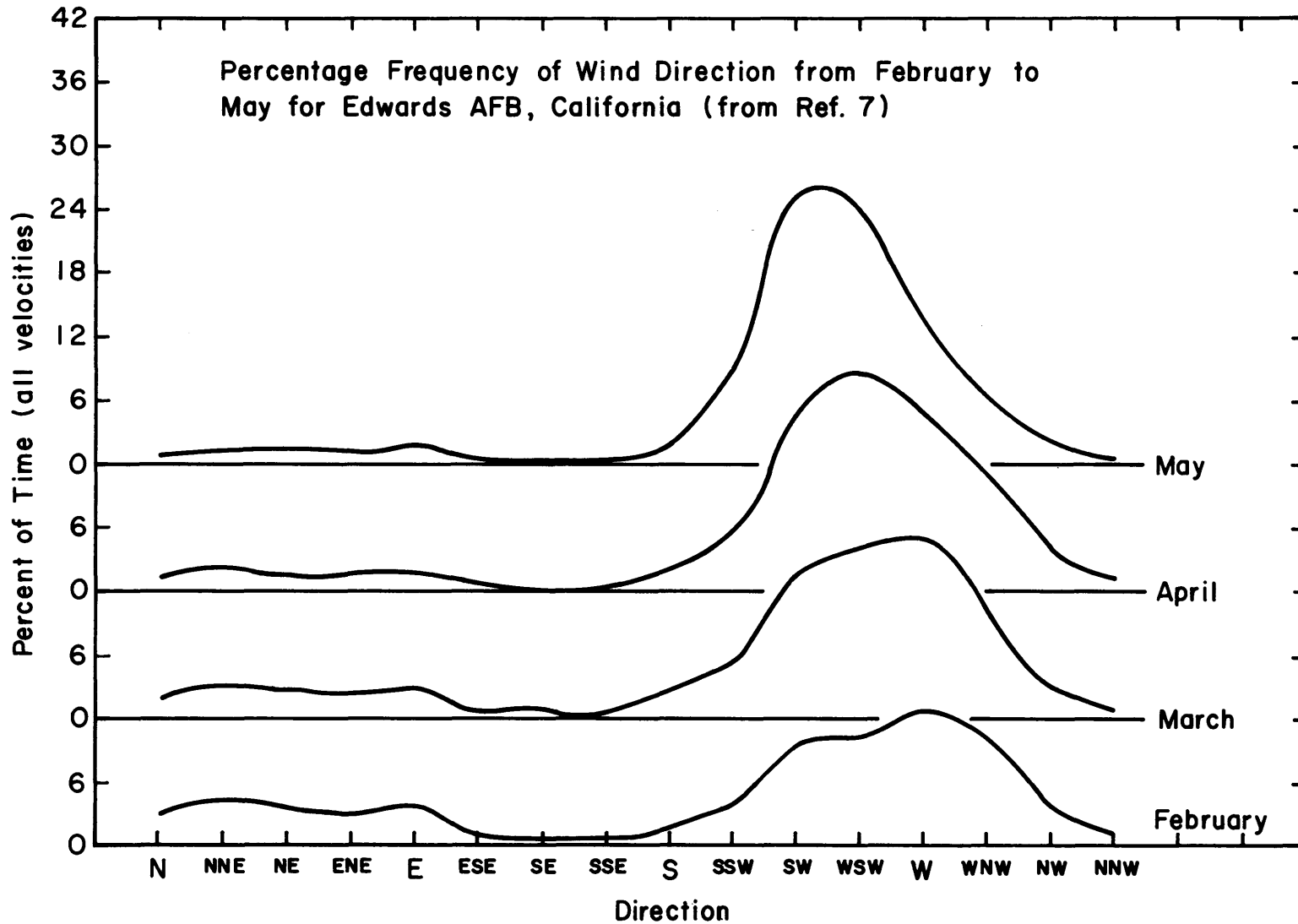


Figure 2d. Field Site Wind Data.

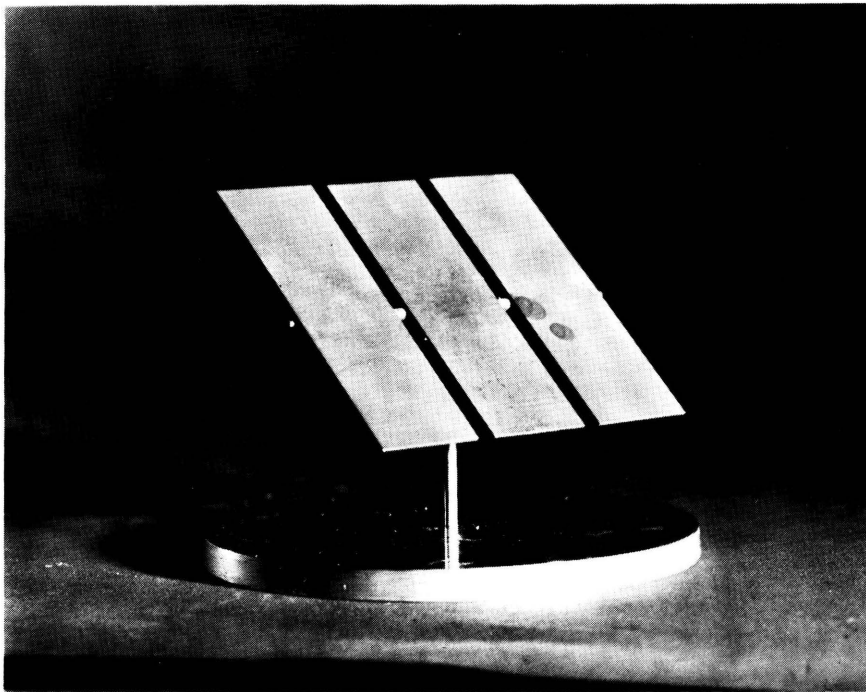
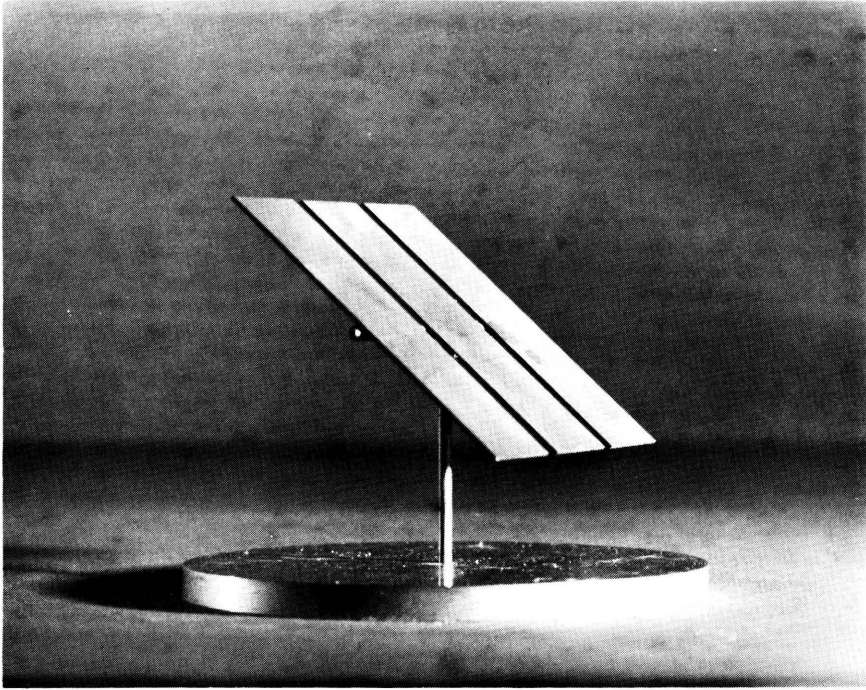


Figure 3a. Ordinary Heliostat.

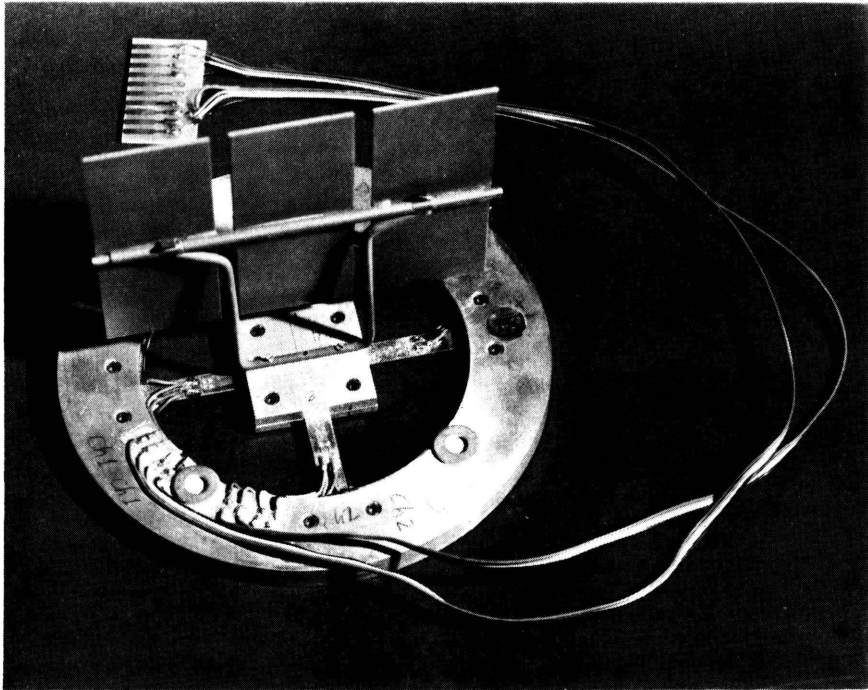
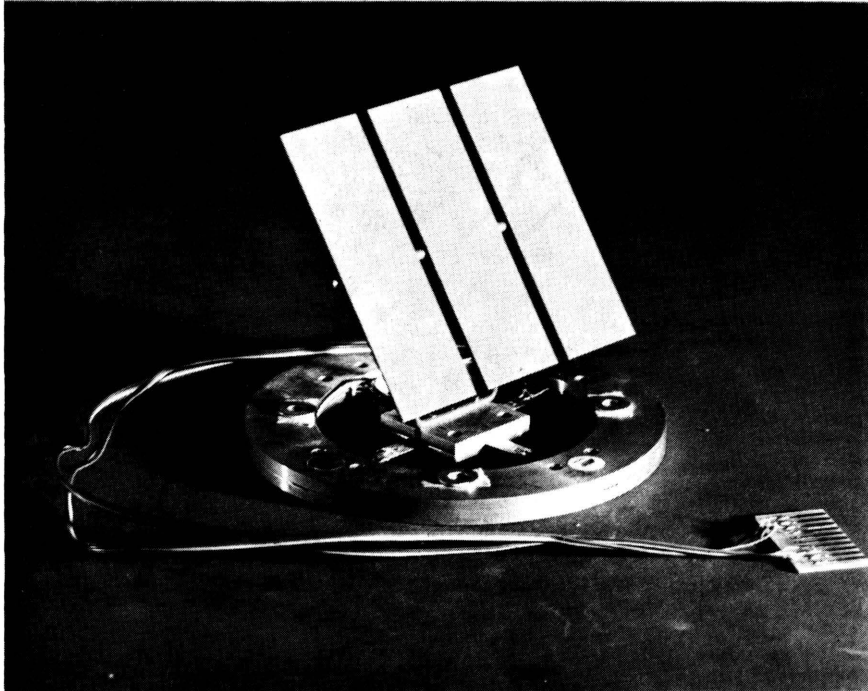


Figure 3b. Instrumented Heliostat.

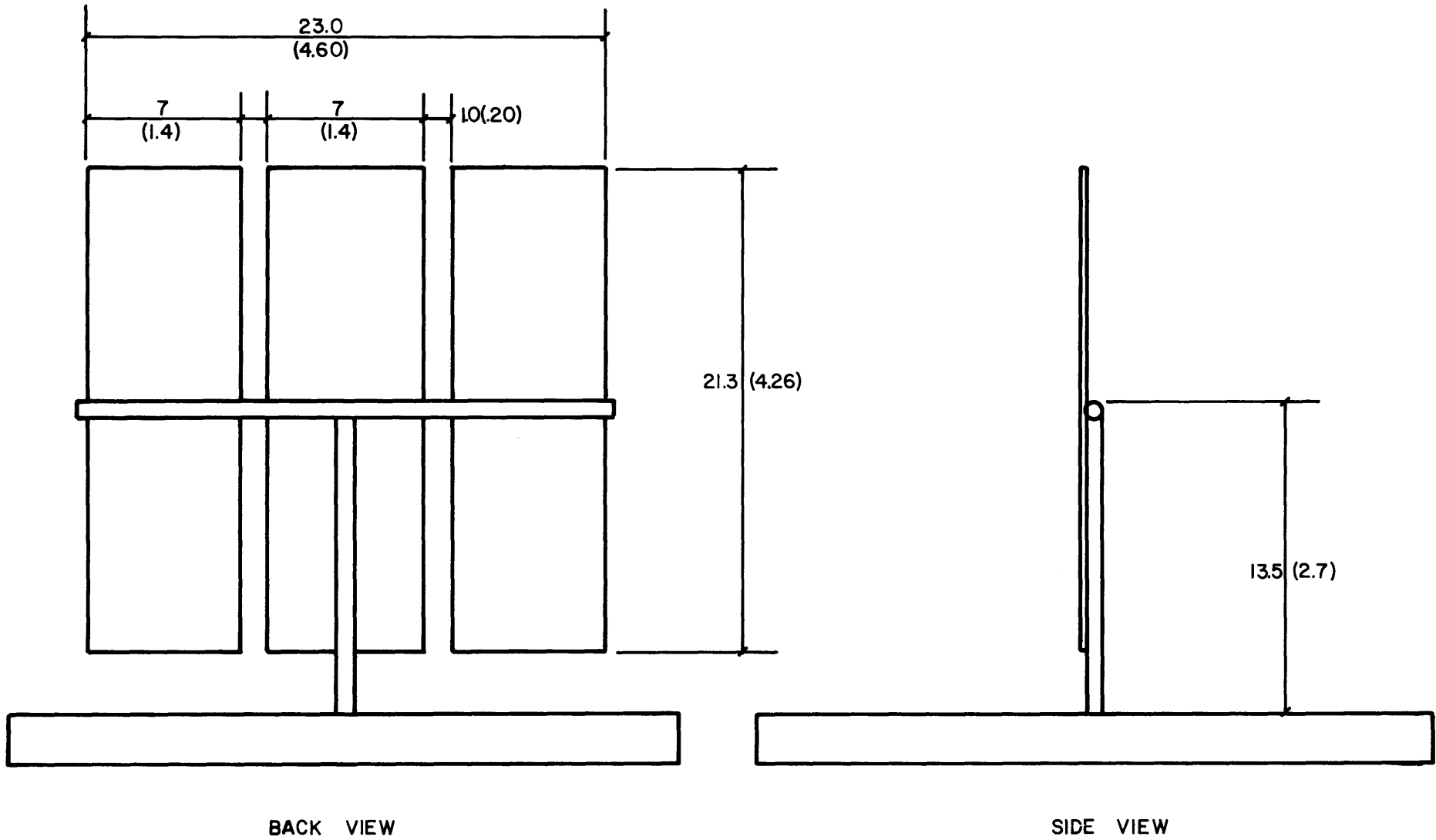
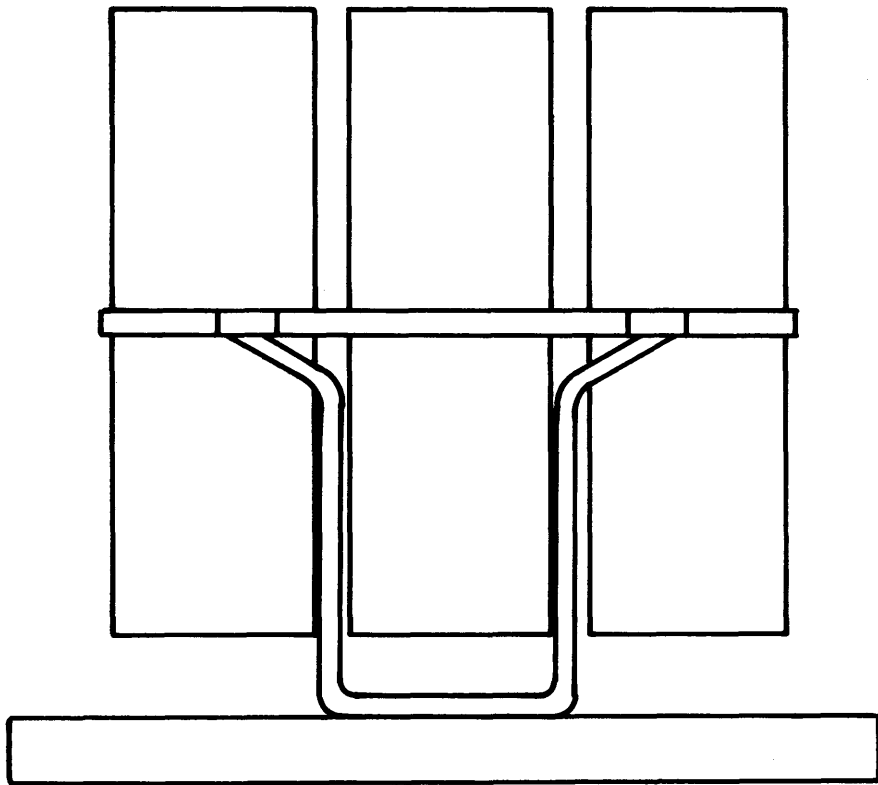
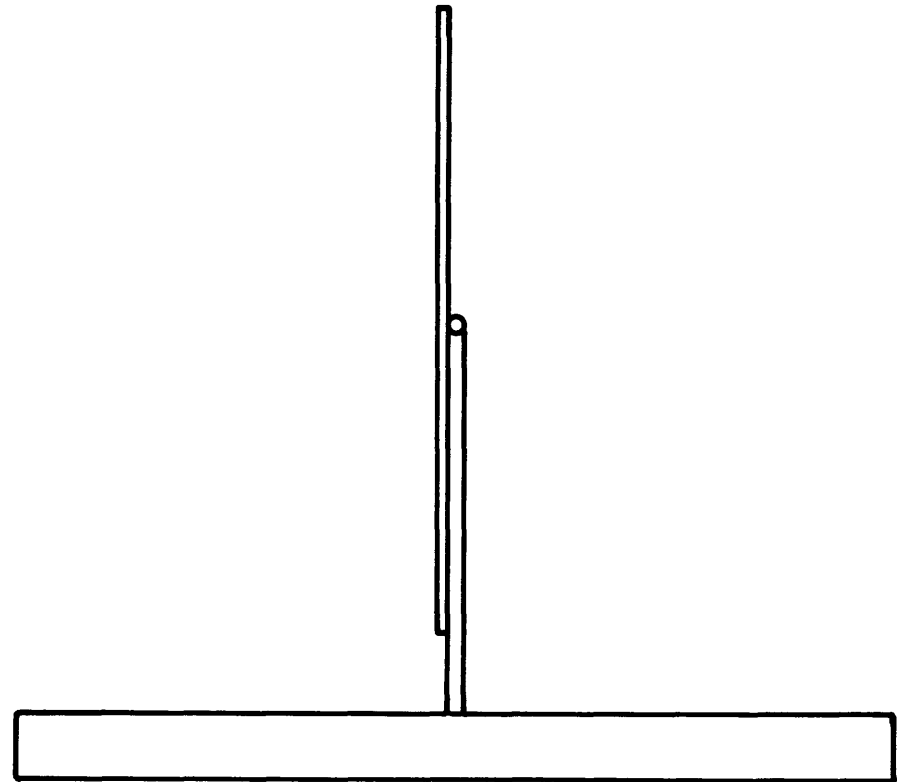


Figure 4. Ordinary Heliostat--Dimensions in full-scale feet and model inches.



BACK VIEW



SIDE VIEW

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

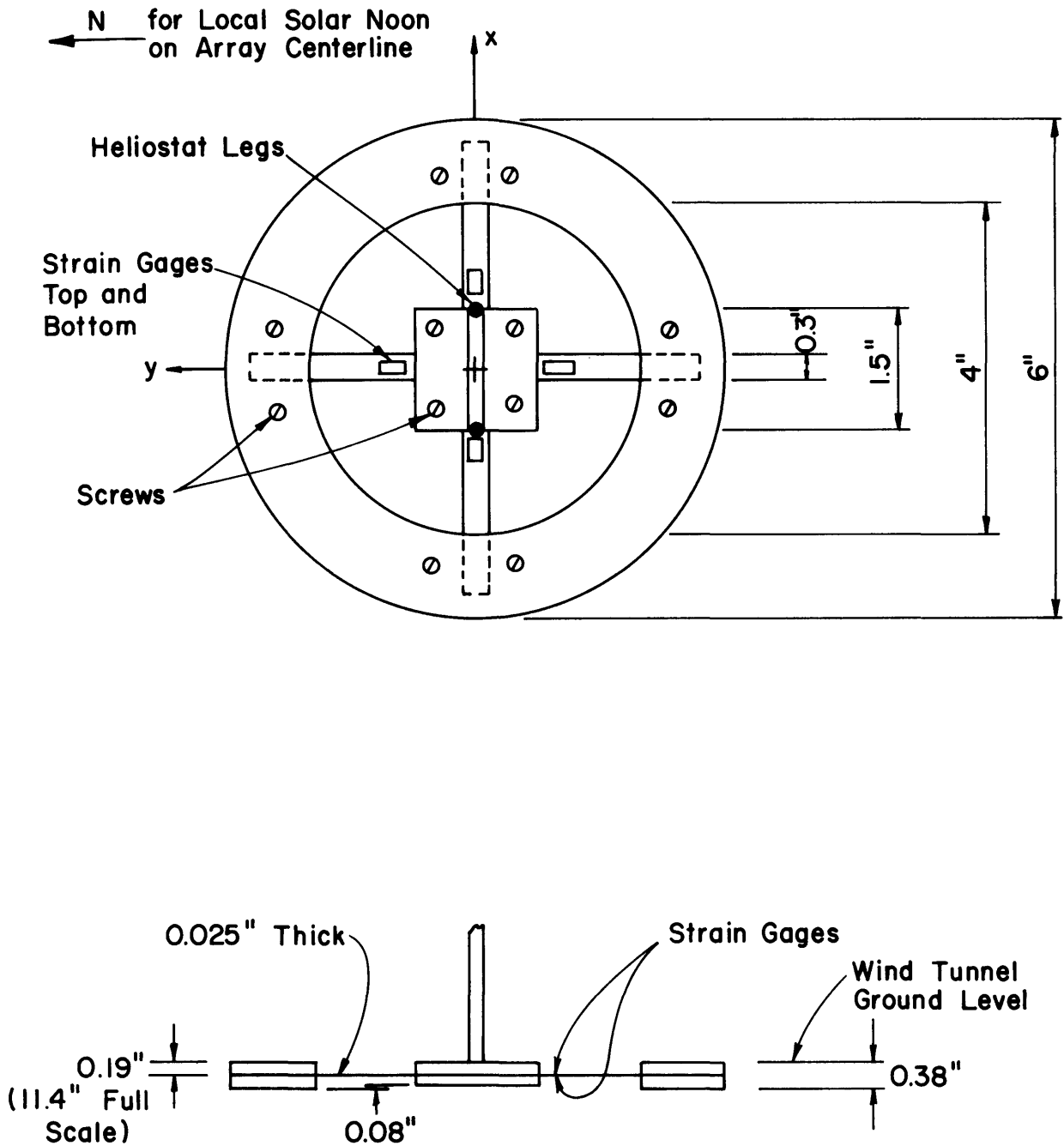


Figure 5b. Instrumented Heliostat--Dimensions.

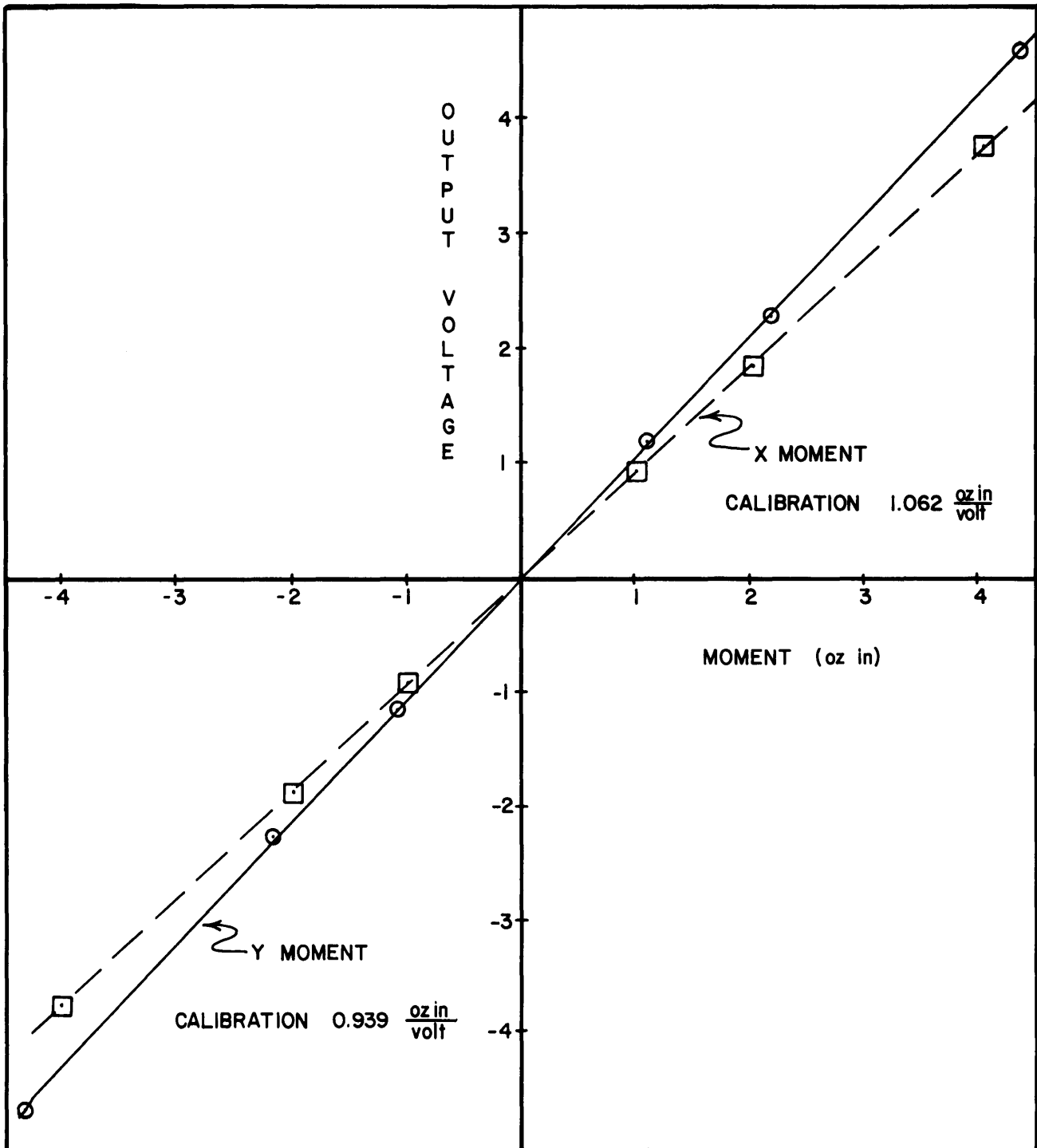


FIGURE 6 — TYPICAL INSTRUMENTED HELIOSTAT MOMENT CALIBRATION CURVE

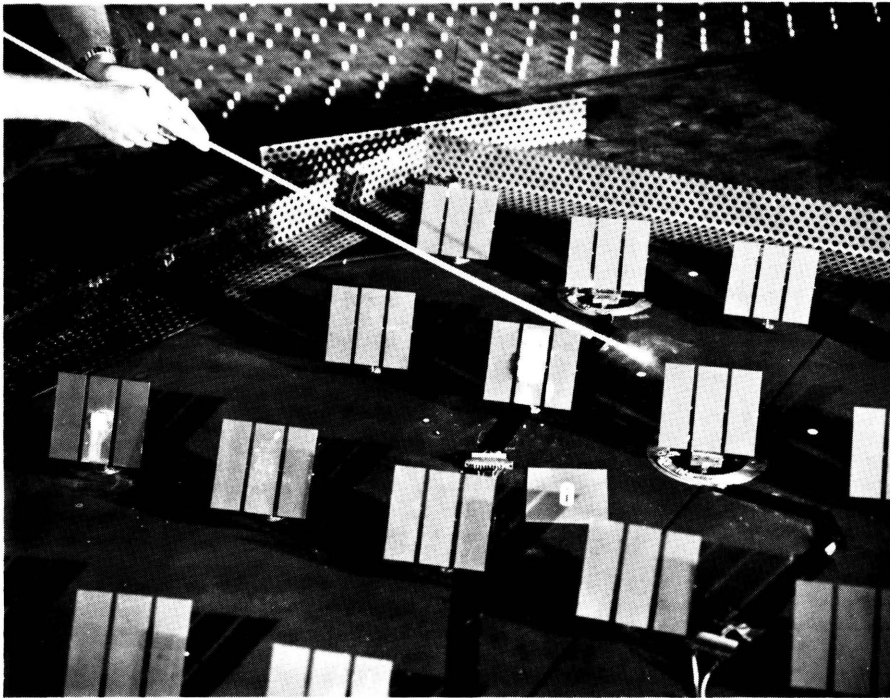
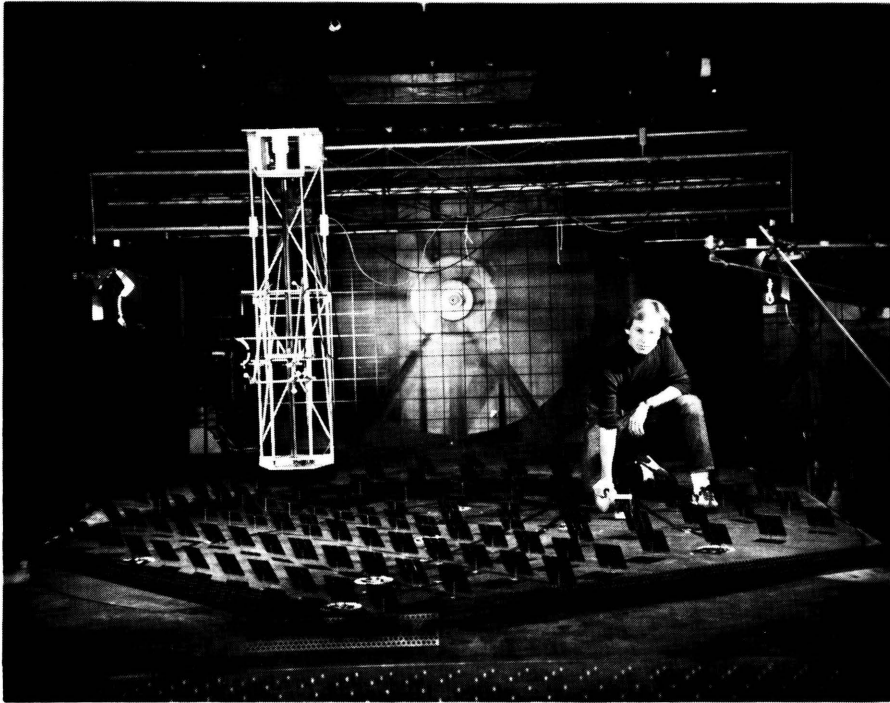


Figure 7a. Model in Tunnel.



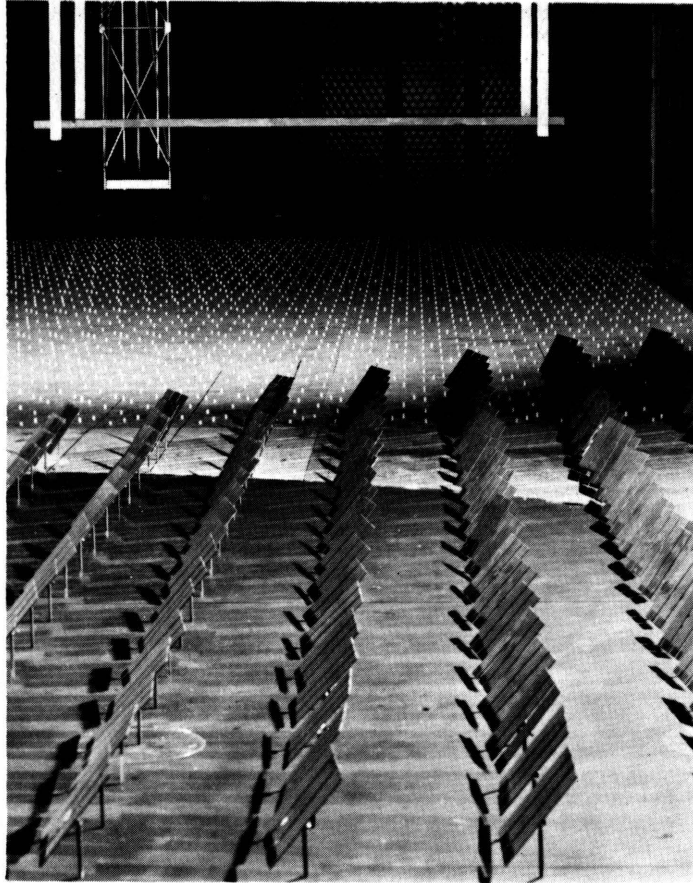


Figure 7b. Model in Tunnel.

### Approach Profiles

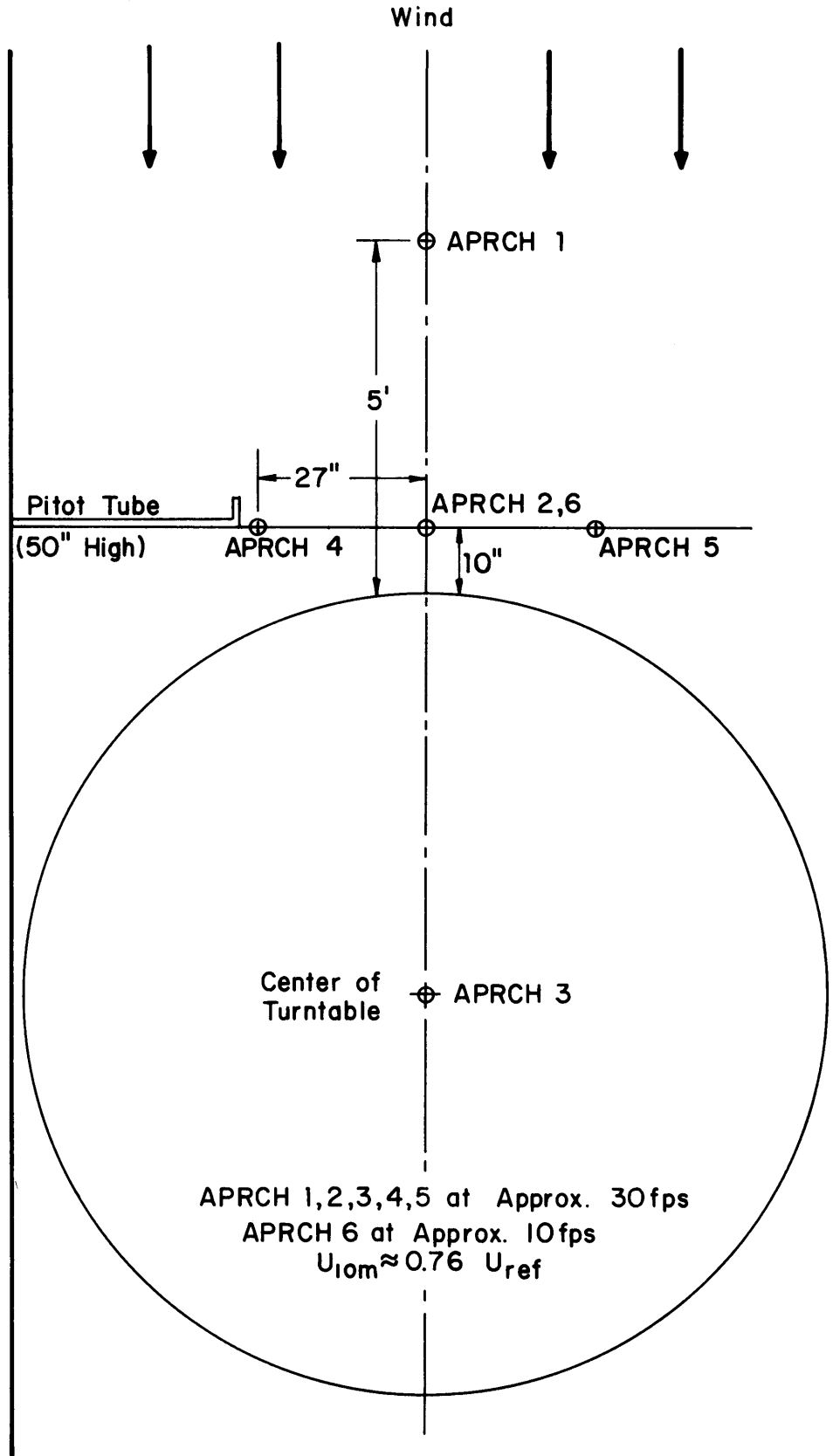


Figure 8. Approach Velocity Profile Location Map.

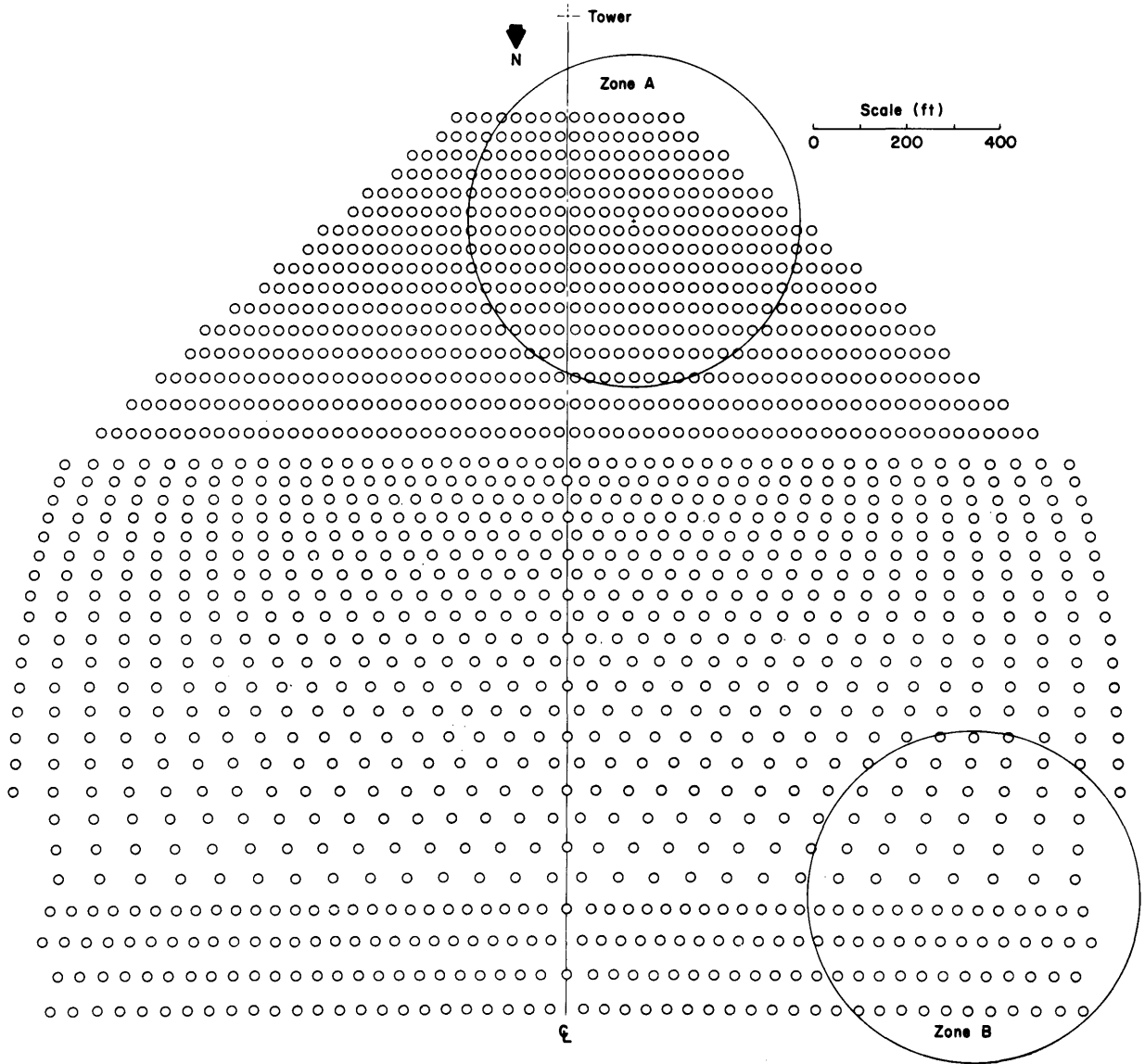


Figure 9. Test Zone Location Map.

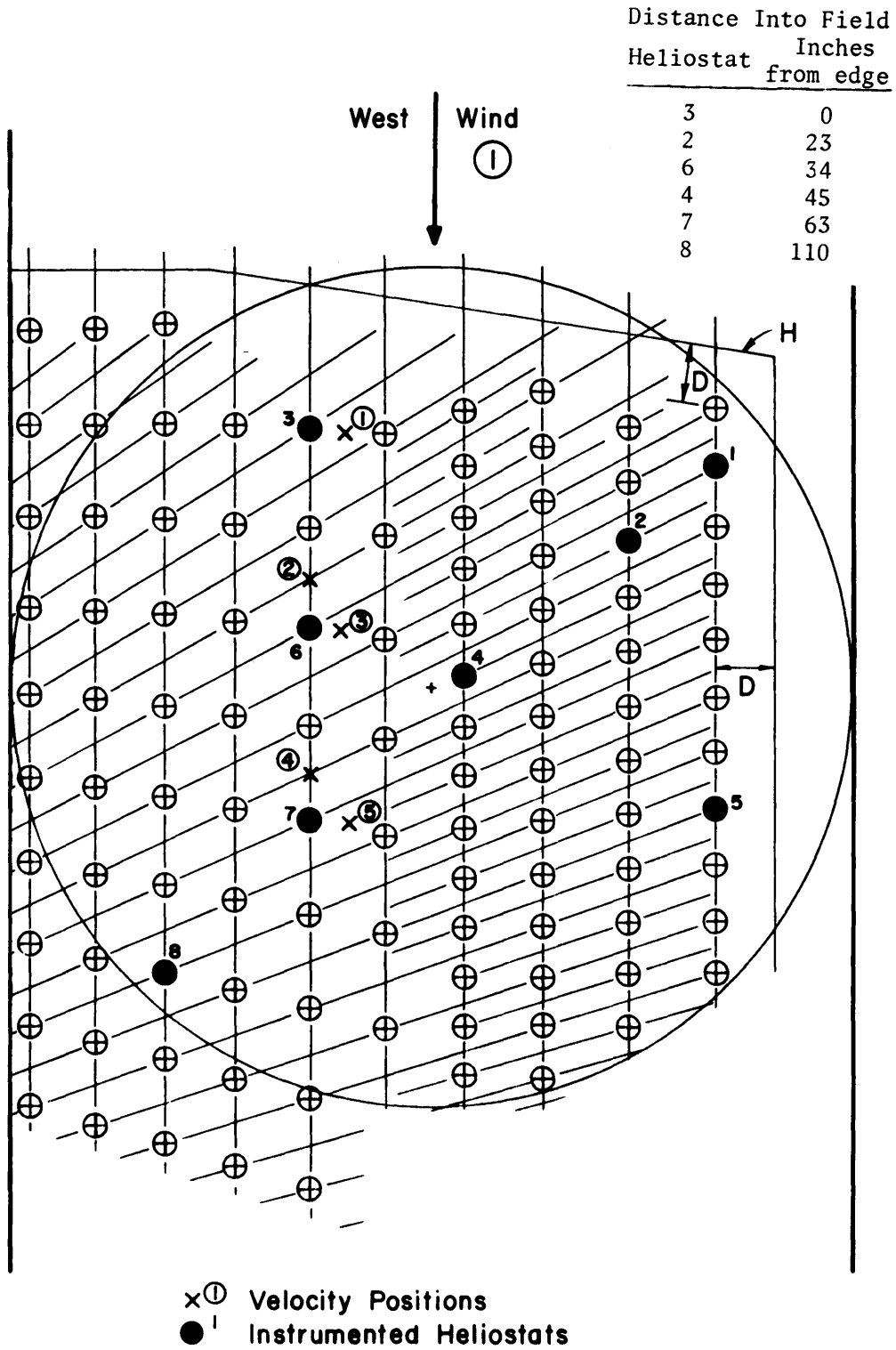


Figure 10a. Zone B, West Wind, Location Map.

Distance Into Field  
 Heliostat Inches  
 from edge

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

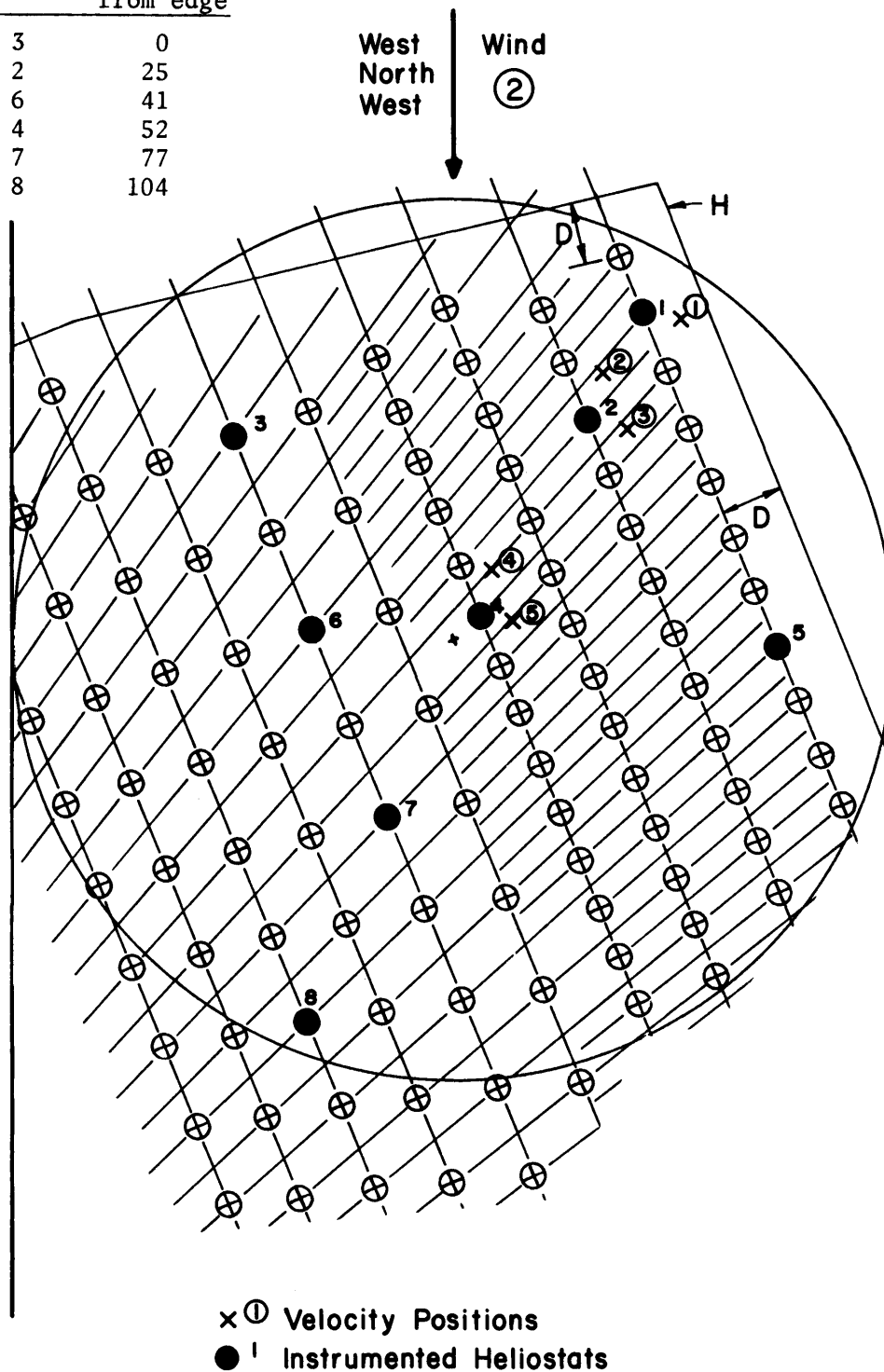
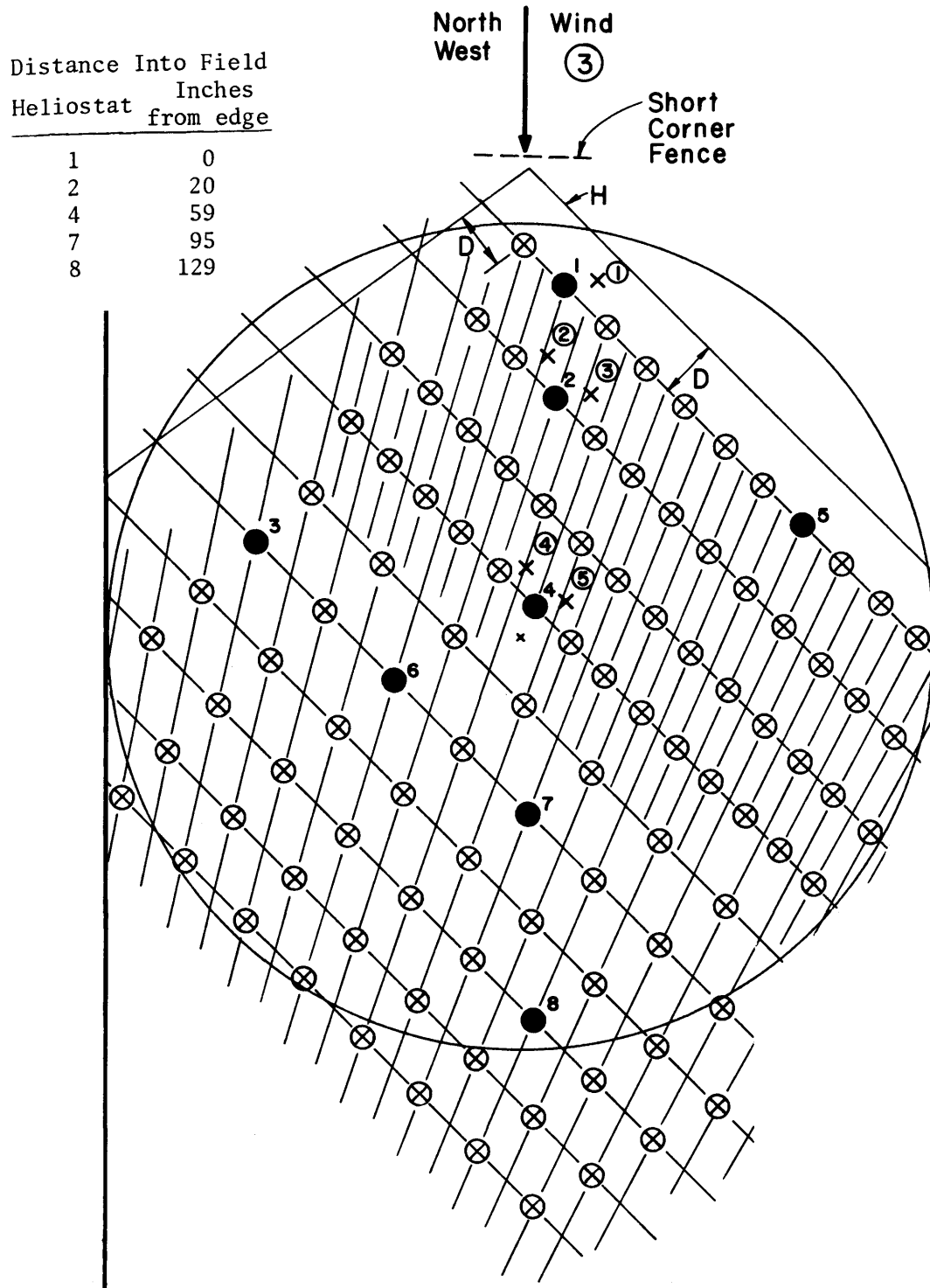


Figure 10b. Zone B, WNW Wind, Location Map.



x<sup>Ⓛ</sup> Velocity Positions  
 ●<sup>l</sup> Instrumented Heliostats

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

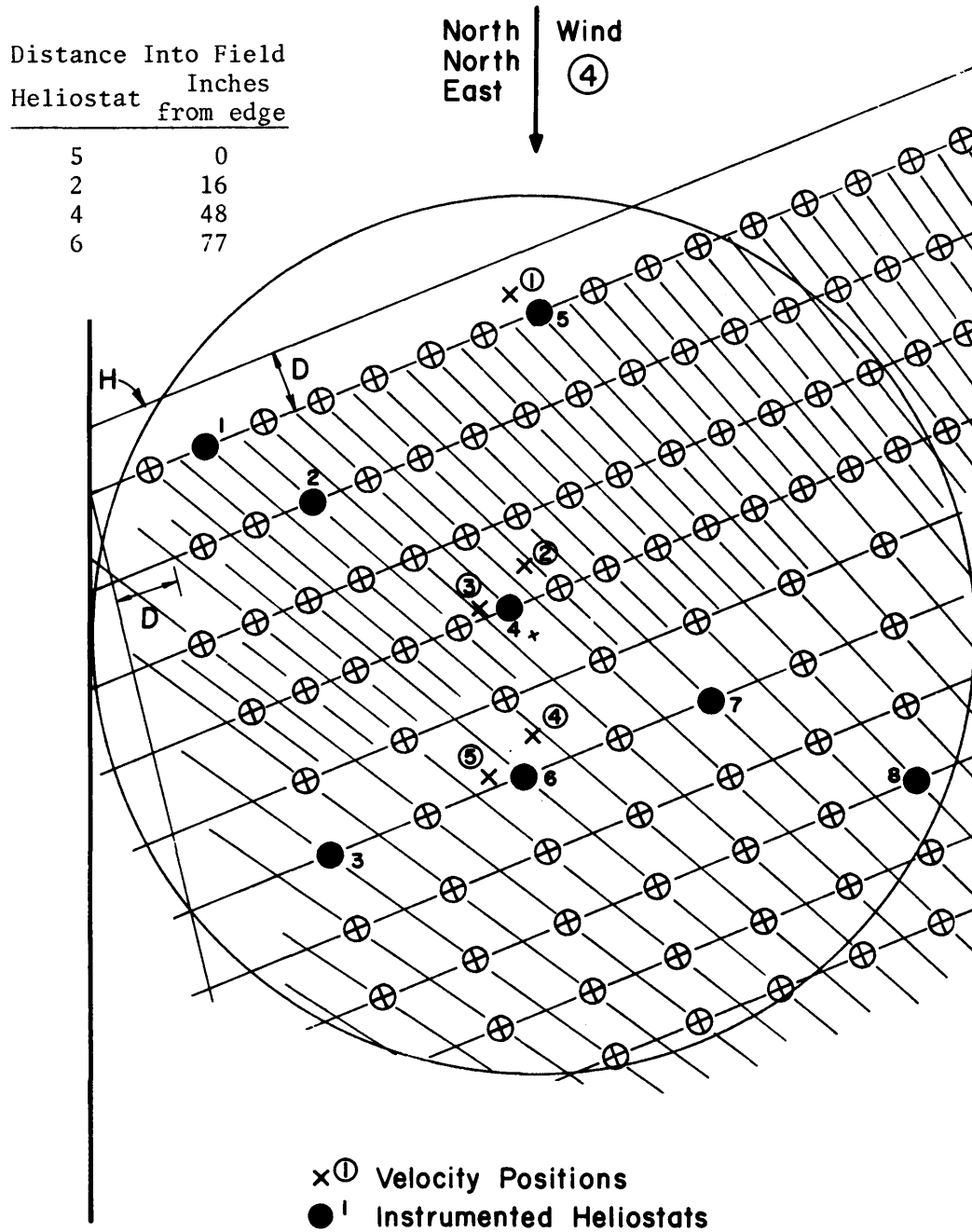


Figure 10d. Zone B, NNE Wind, Location Map.

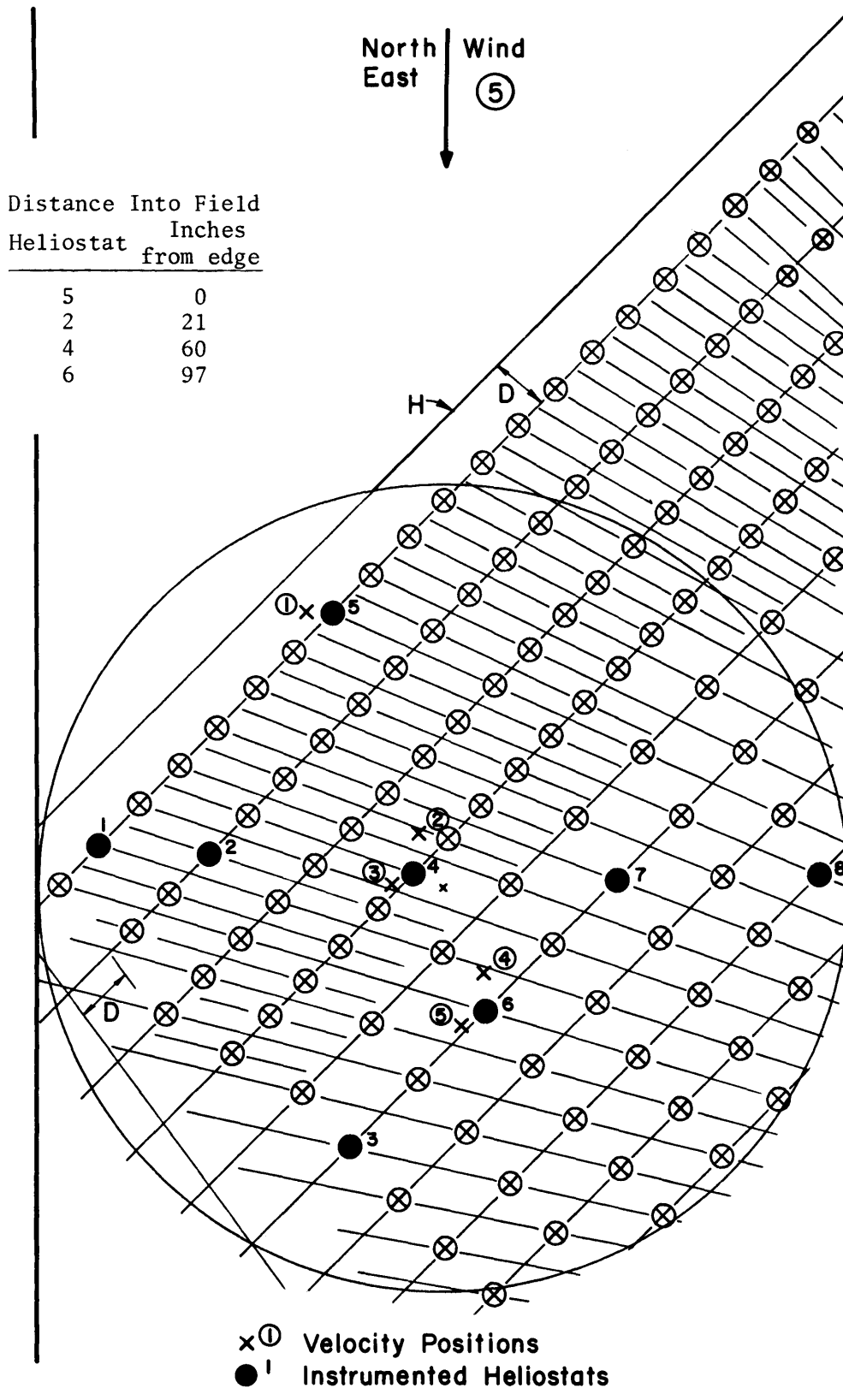


Figure 10e. Zone B, NE Wind, Location Map.



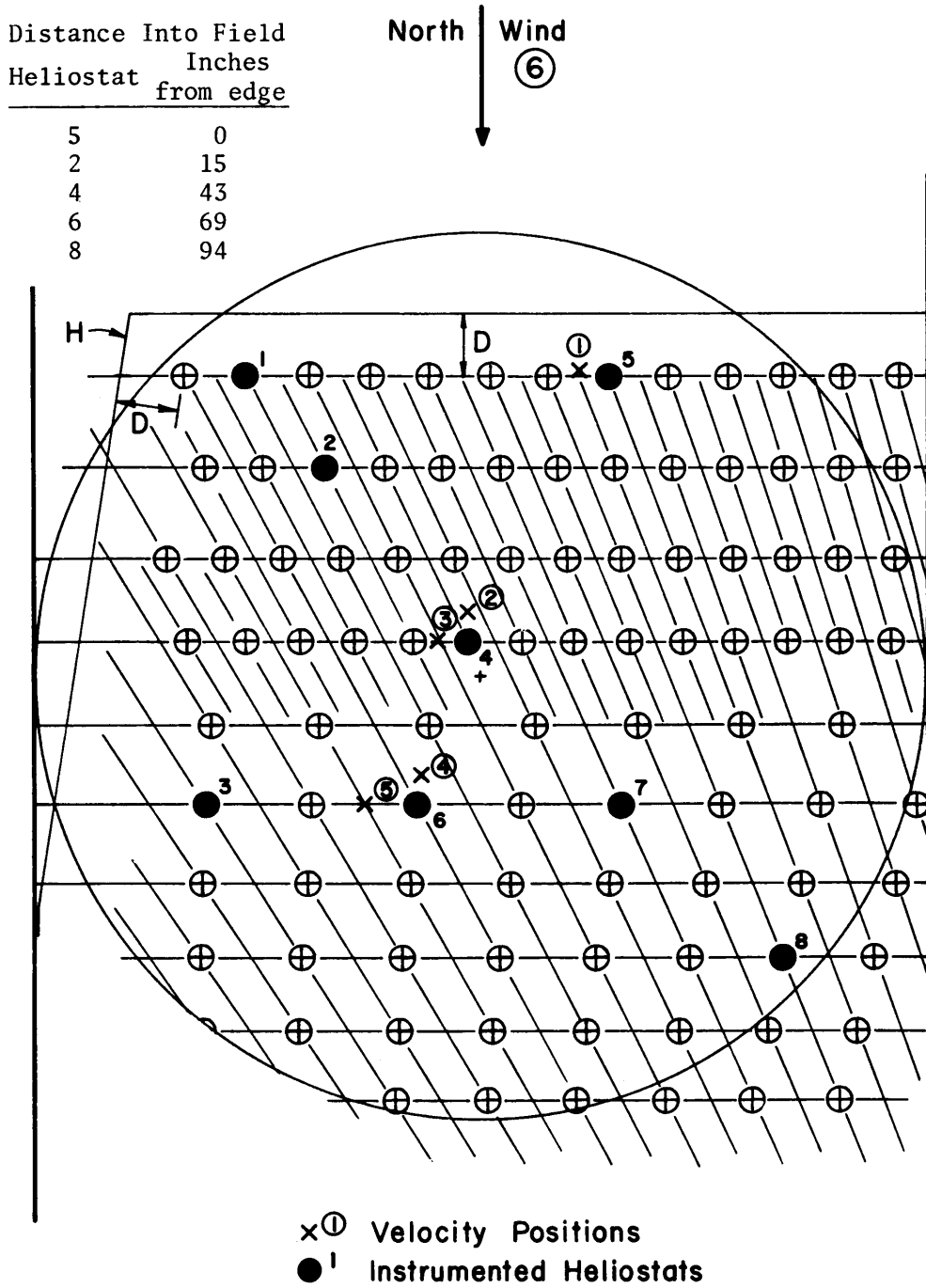


Figure 10f. Zone B, North Wind, Location Map.

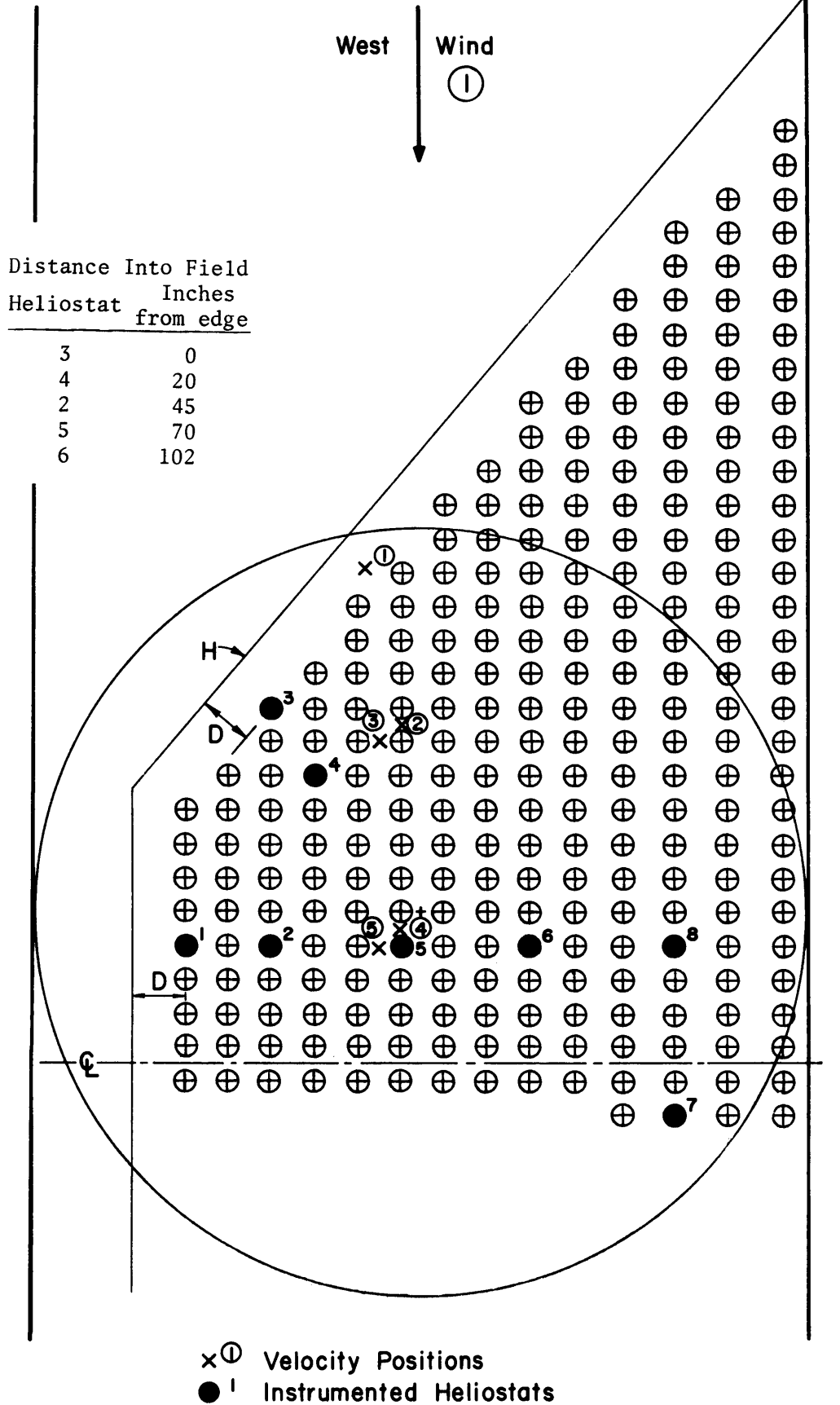


Figure 10g. Zone A, West Wind, Location Map.



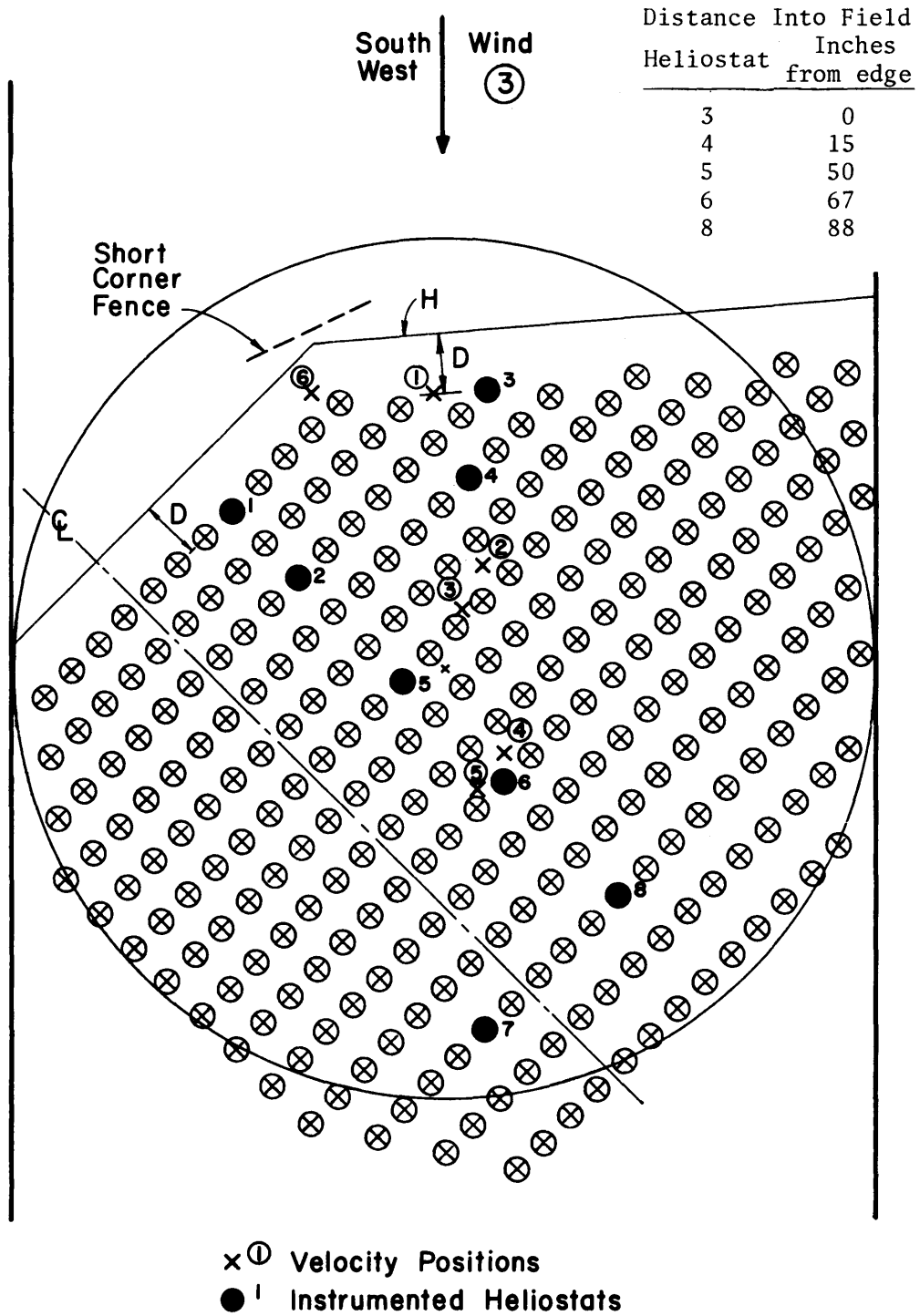


Figure 10i. Zone A, SW Wind, Location Map.

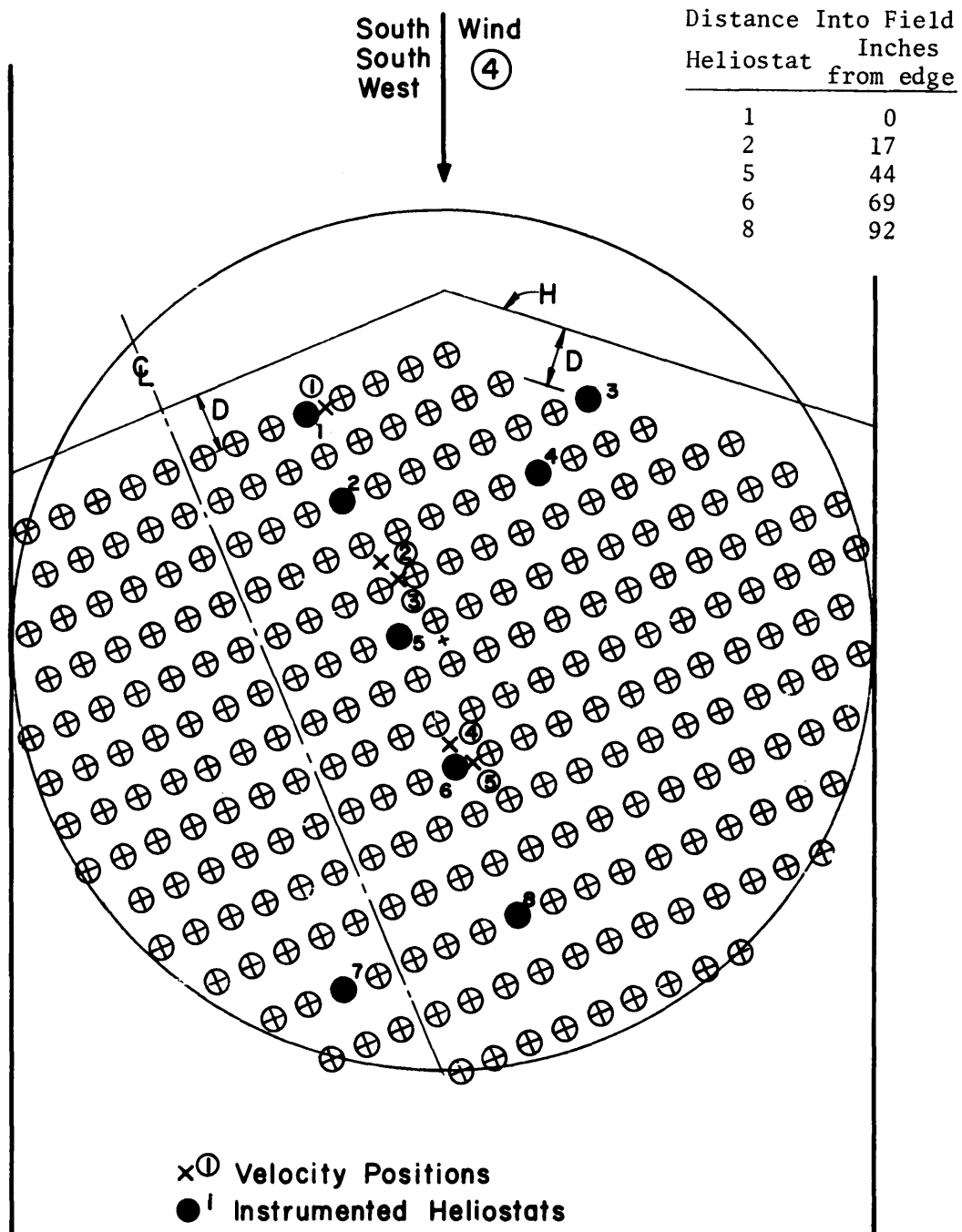
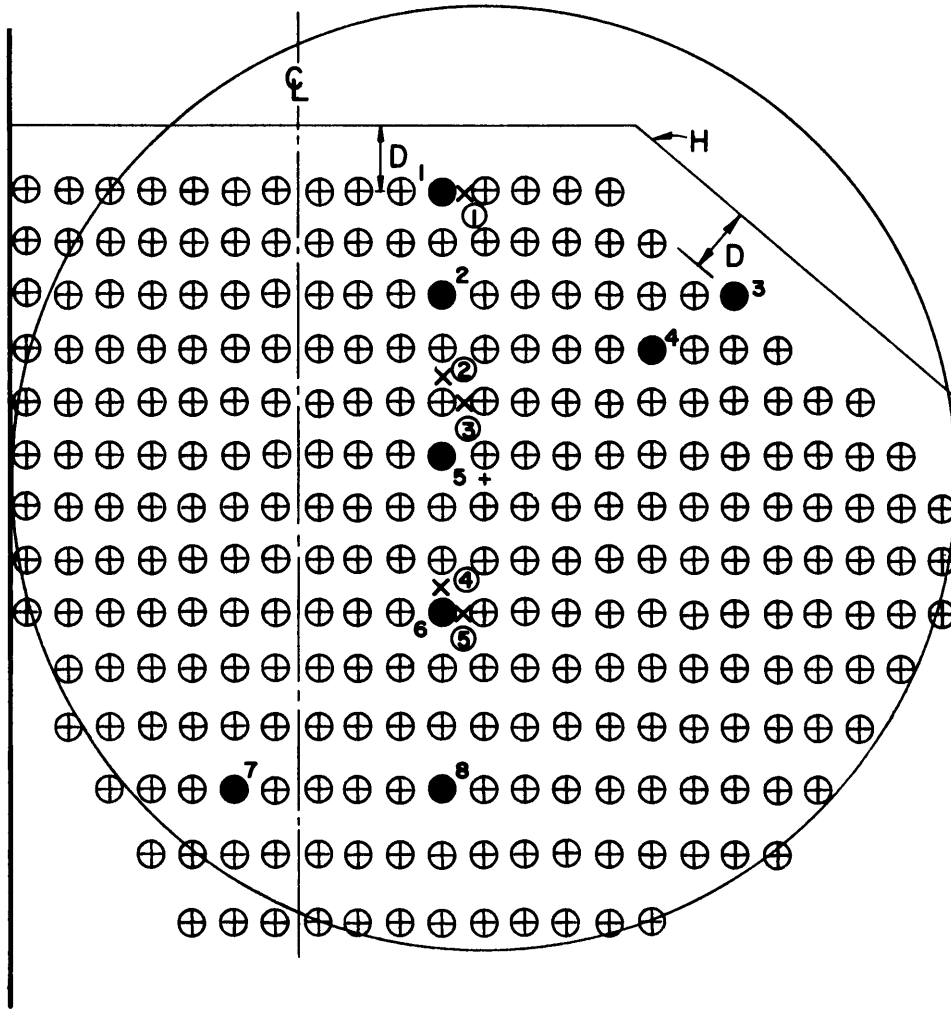


Figure 10j. Zone A, SSW Wind, Location Map.

Distance Into Field  
 Heliostat Inches  
 from edge

1	0
2	20
5	40
6	64
8	91

South Wind  
 (5)



x<sup>Ⓛ</sup> Velocity Positions  
 ●<sup>l</sup> Instrumented Heliostats

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

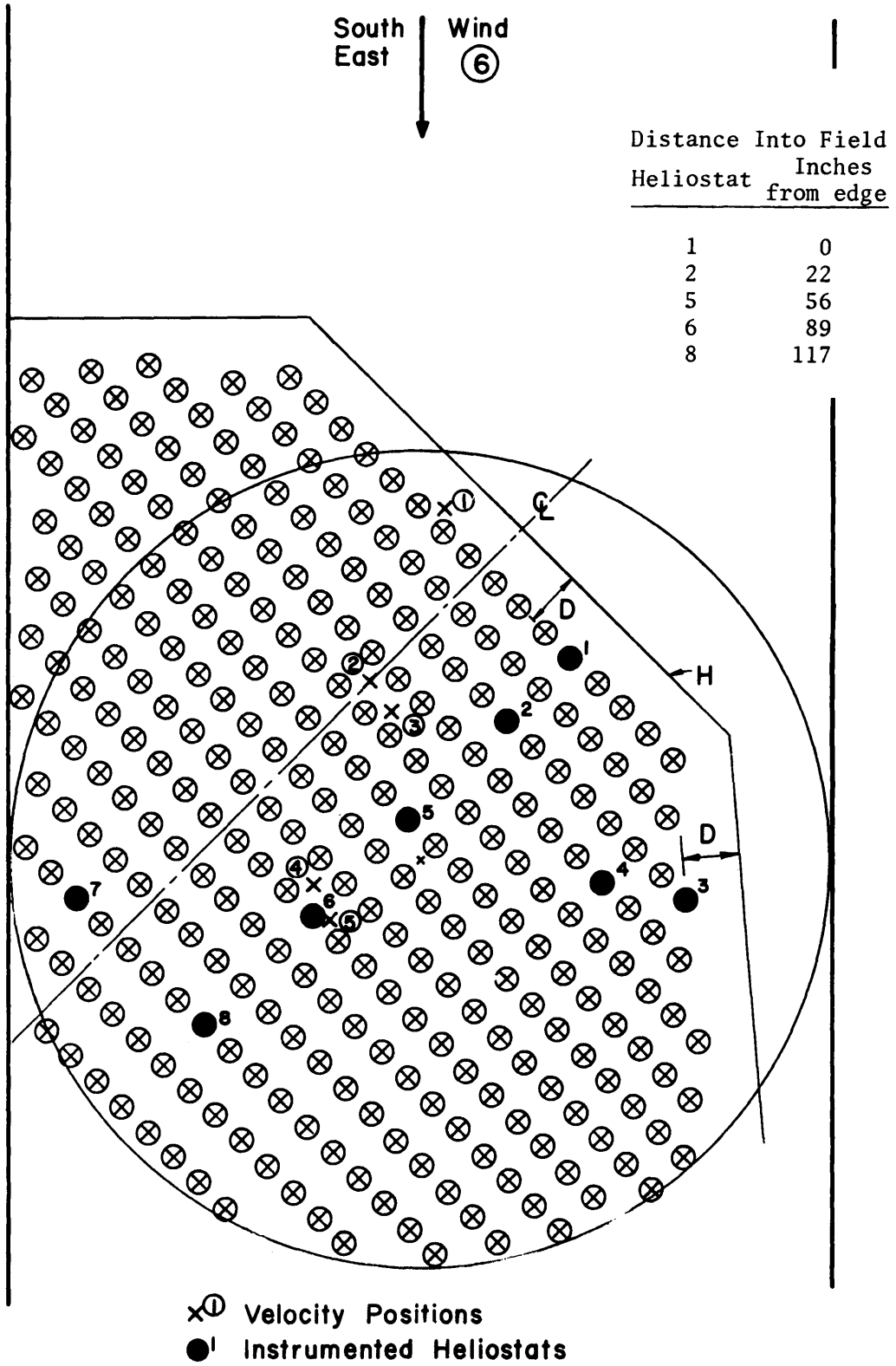


Figure 10l. Zone A, SE Wind, Location Map.

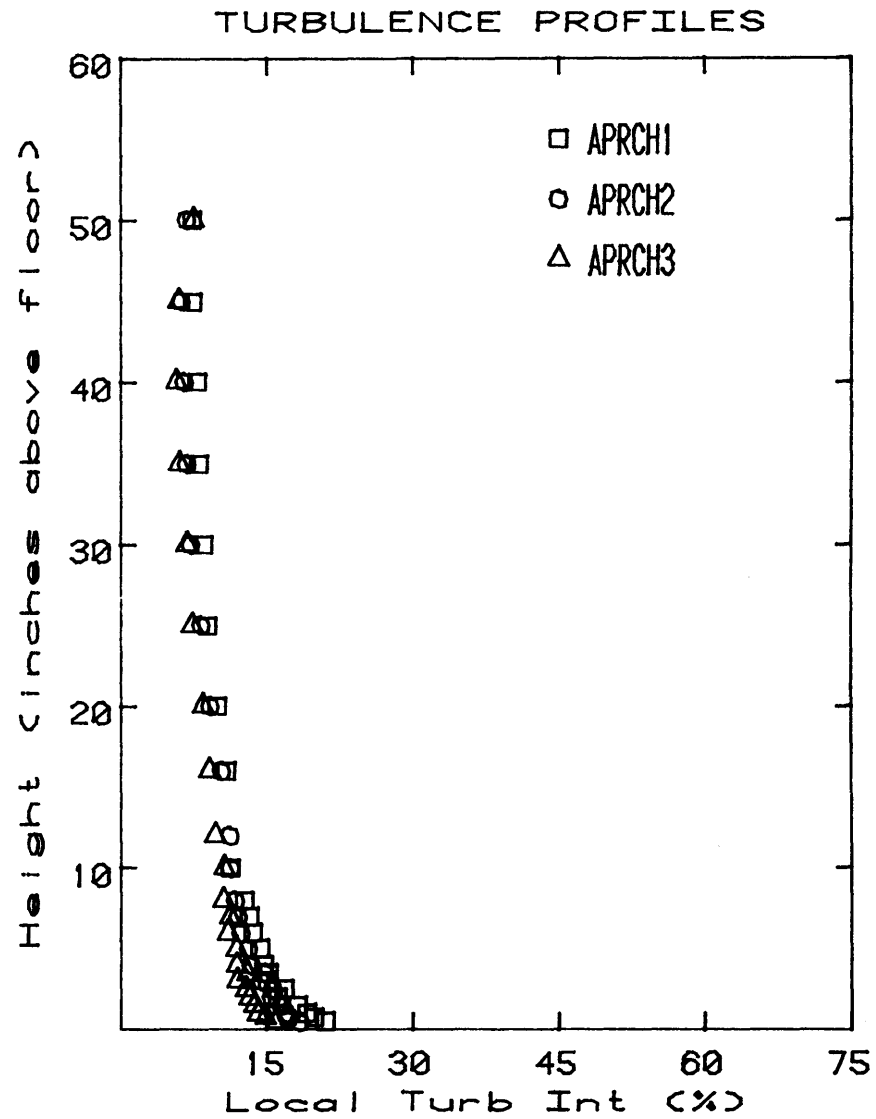
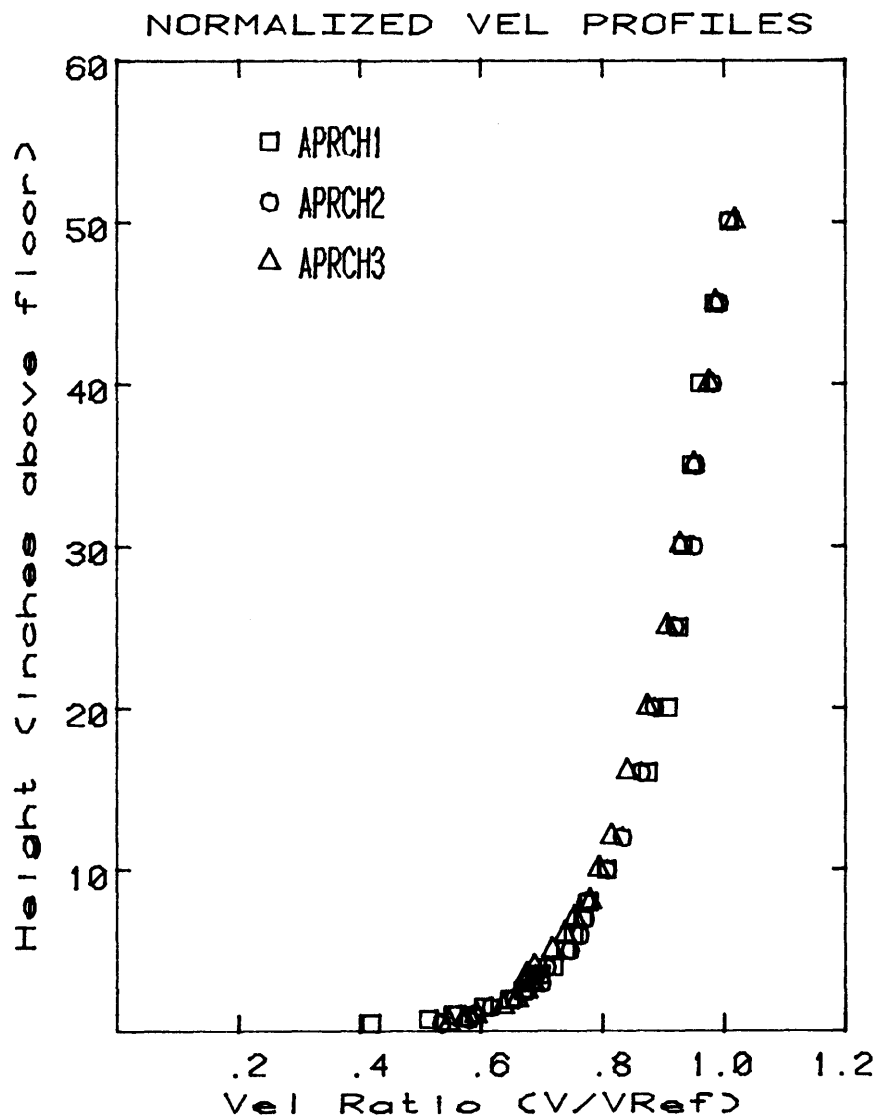


Figure 11 - Approach Velocity Profiles along Tunnel Axis



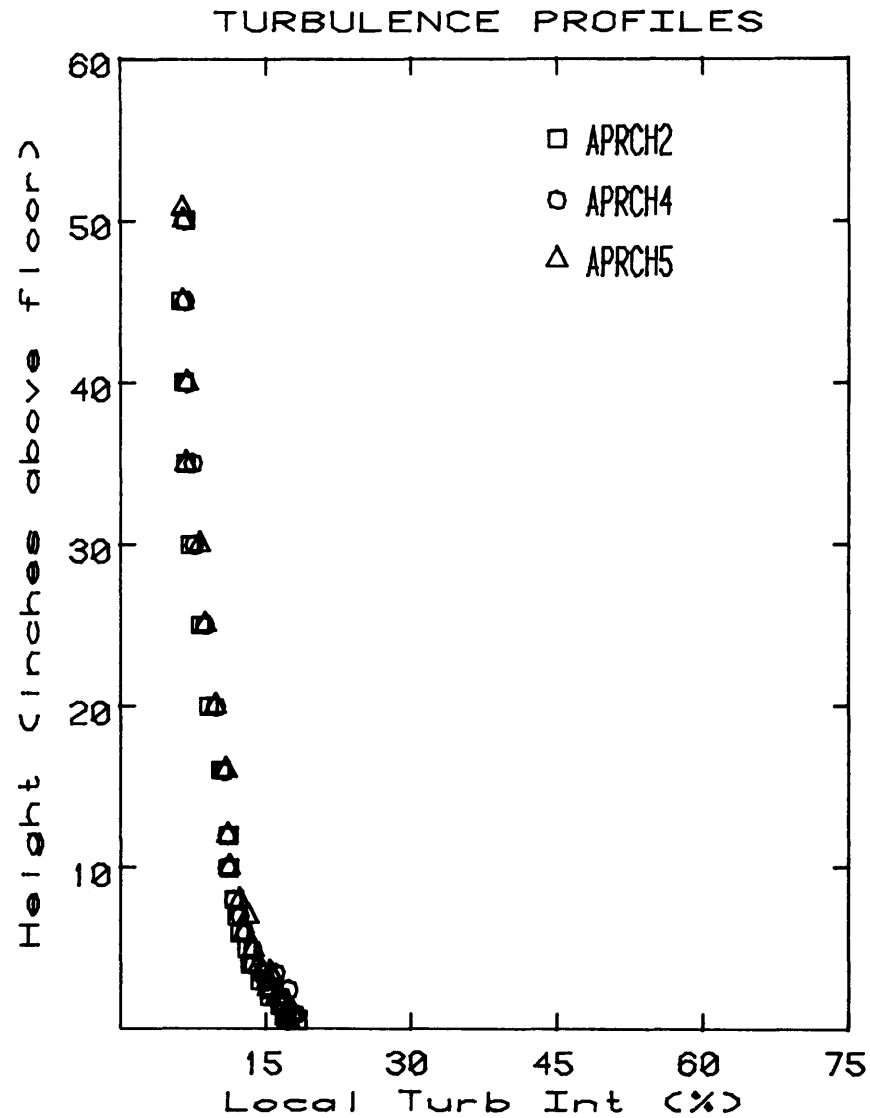
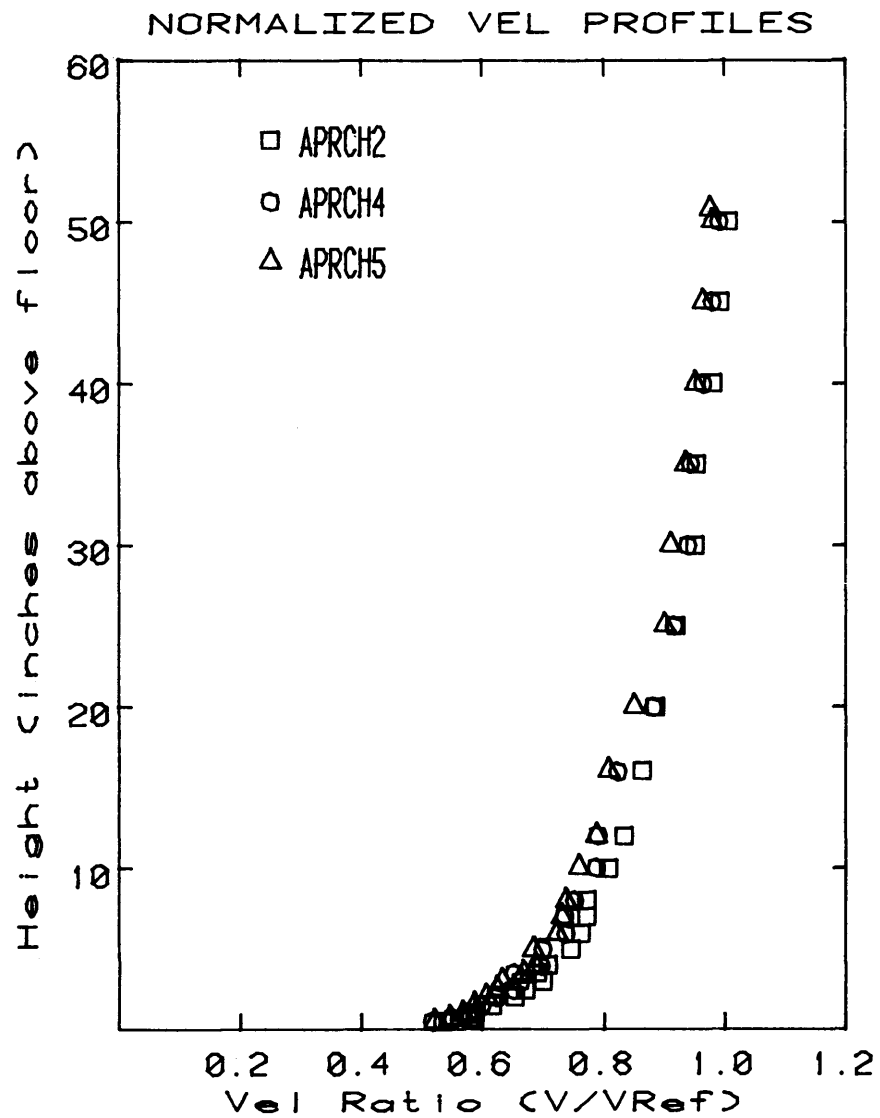


Figure 12 - Approach Velocity Profiles across Tunnel

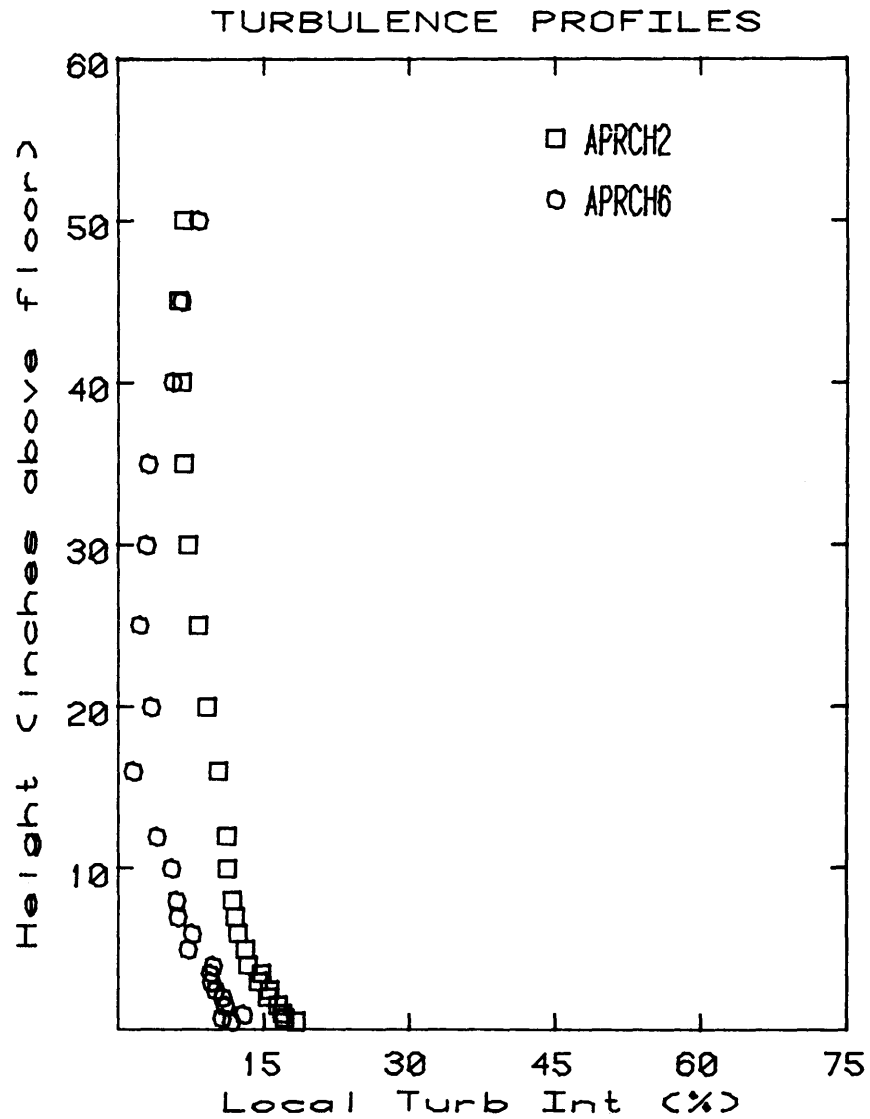
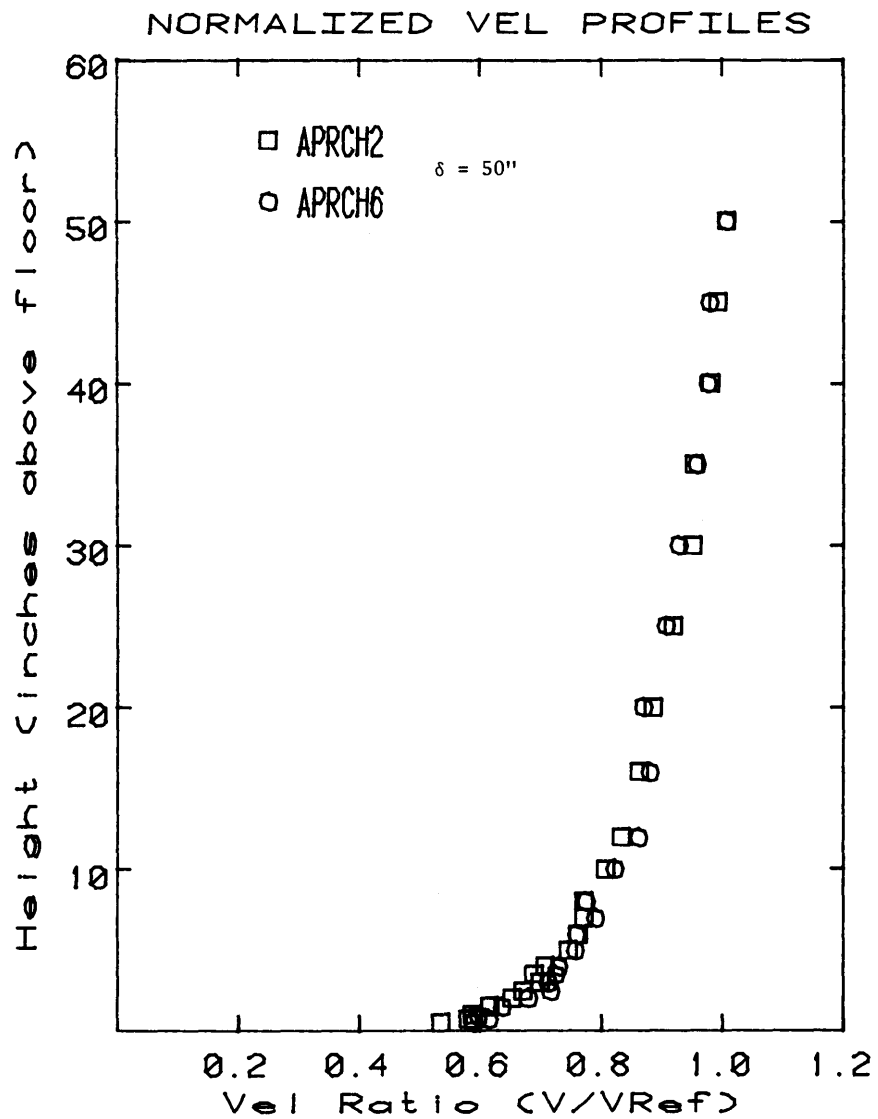


Figure 13 - Approach Velocity Profiles at Two Speeds

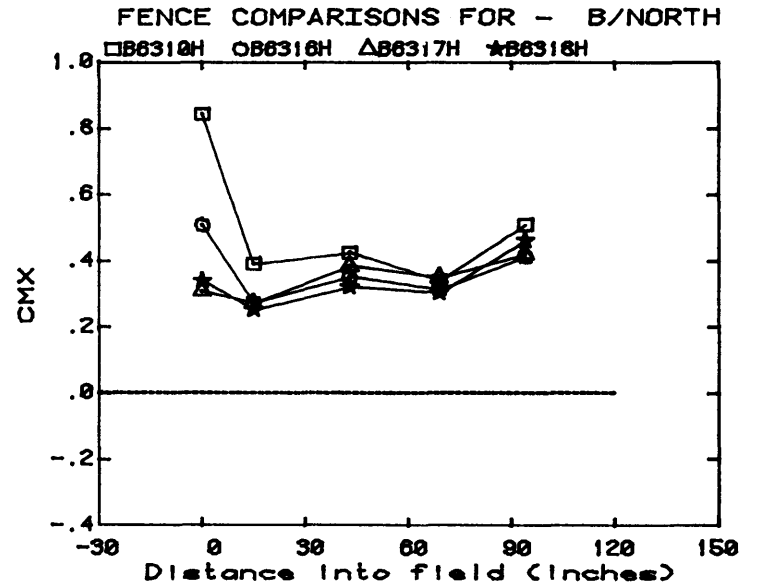
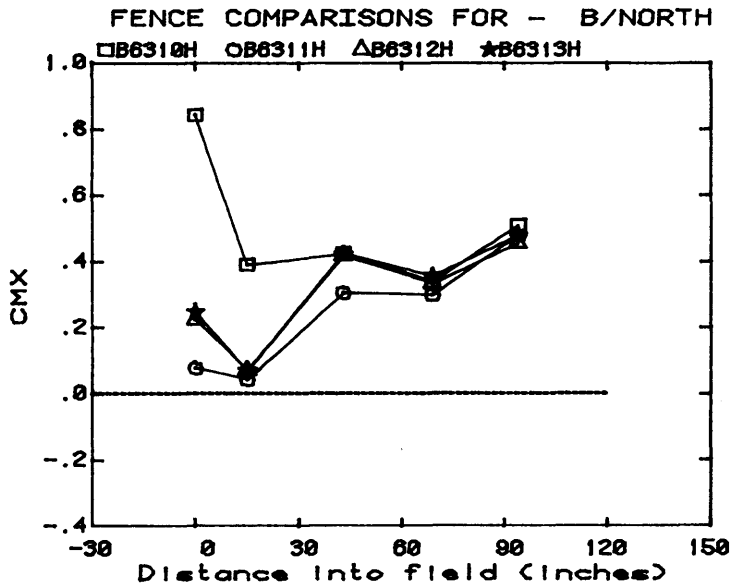
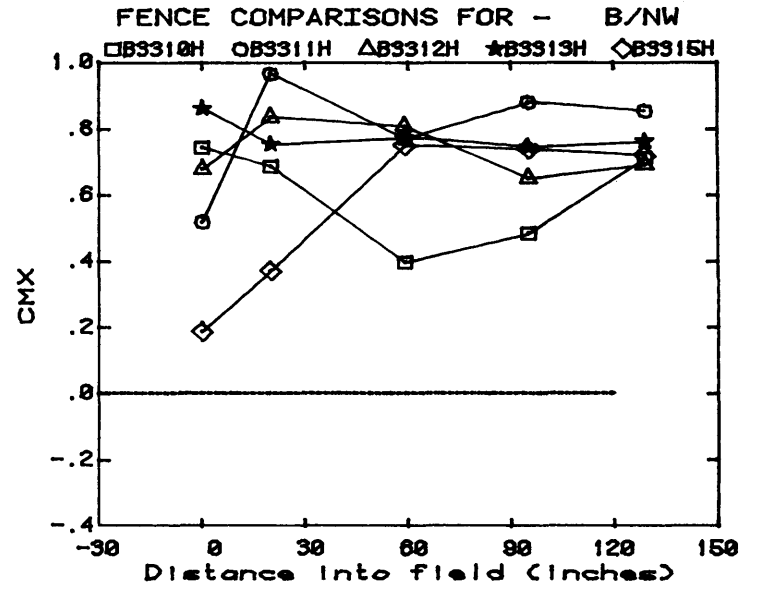
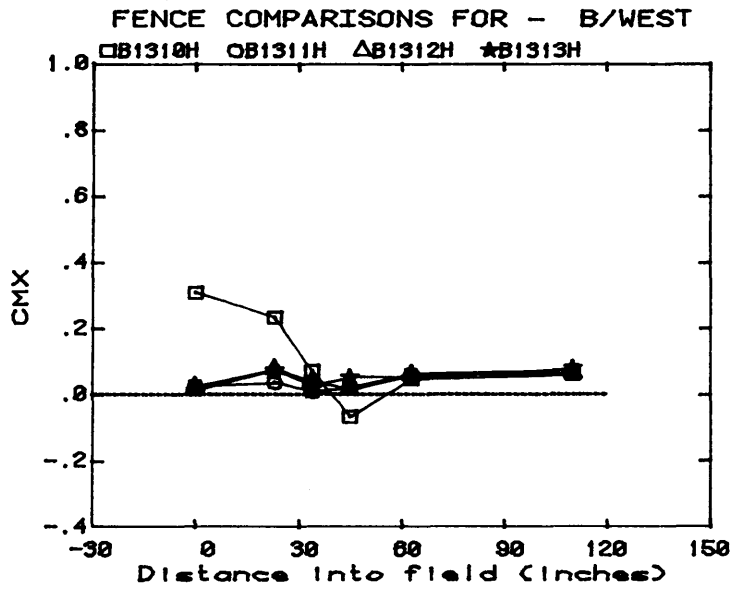


Figure 14 - CMX Fence Comparisons for Zone B

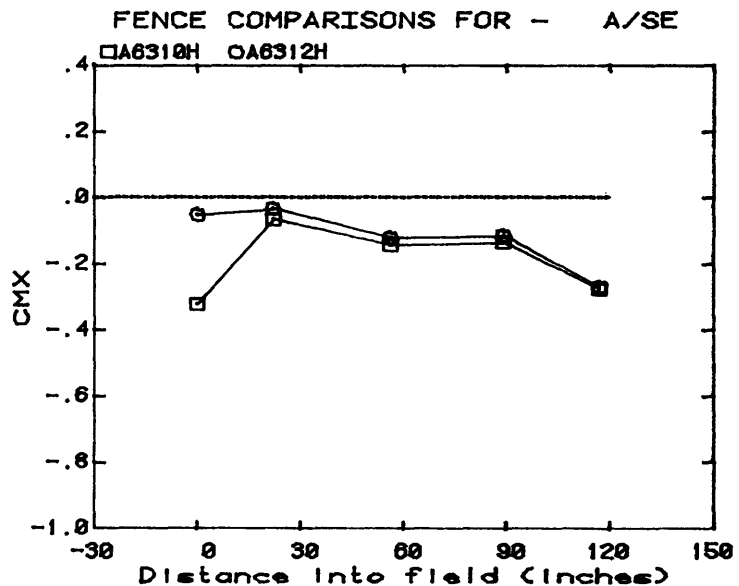
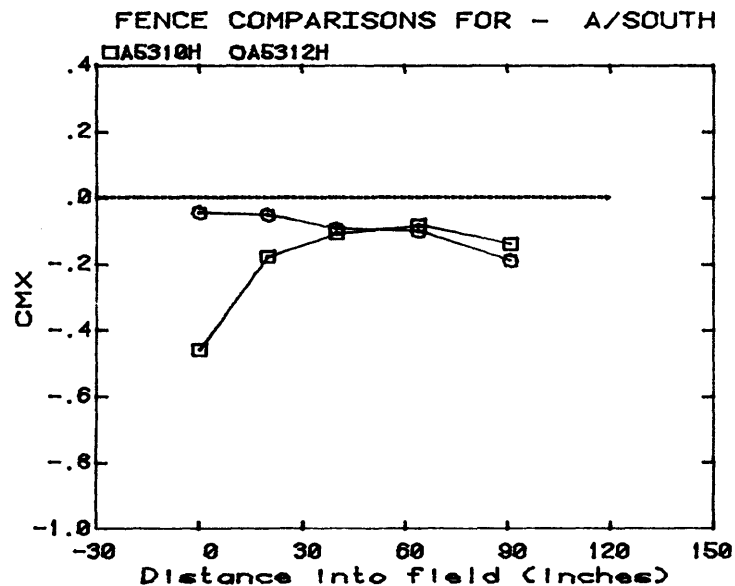
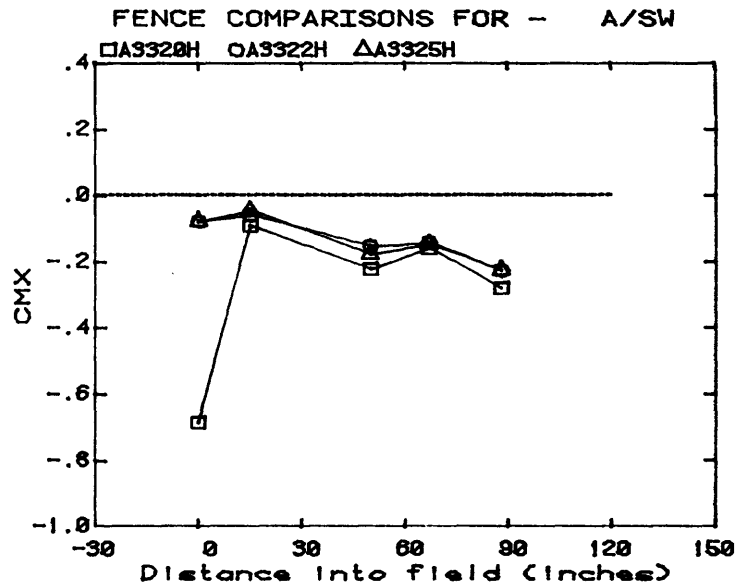
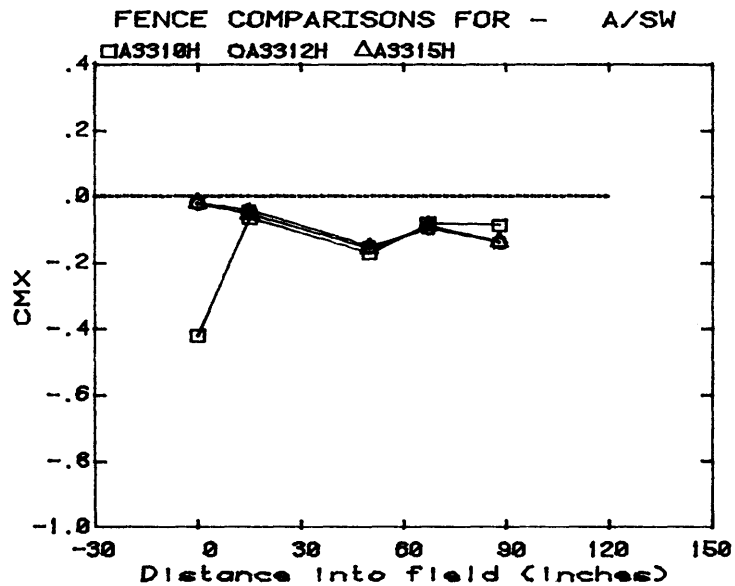


Figure 15 - CMX Fence Comparisons for Zone A

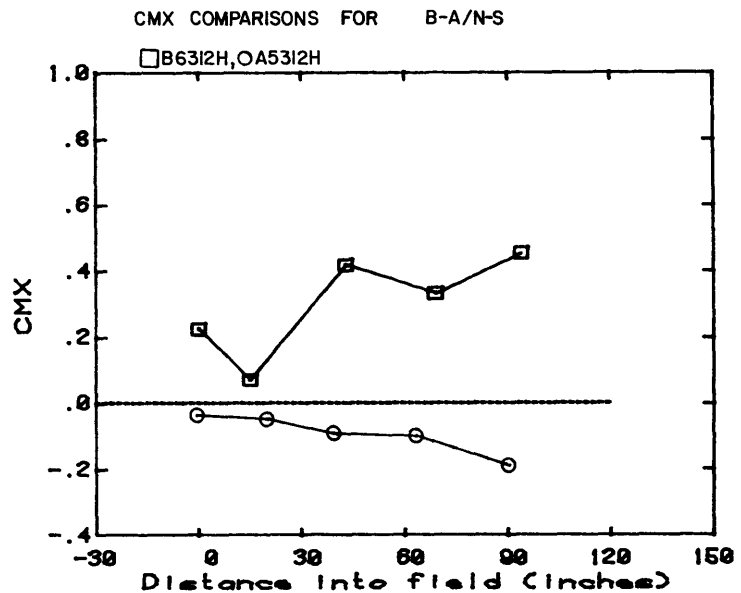
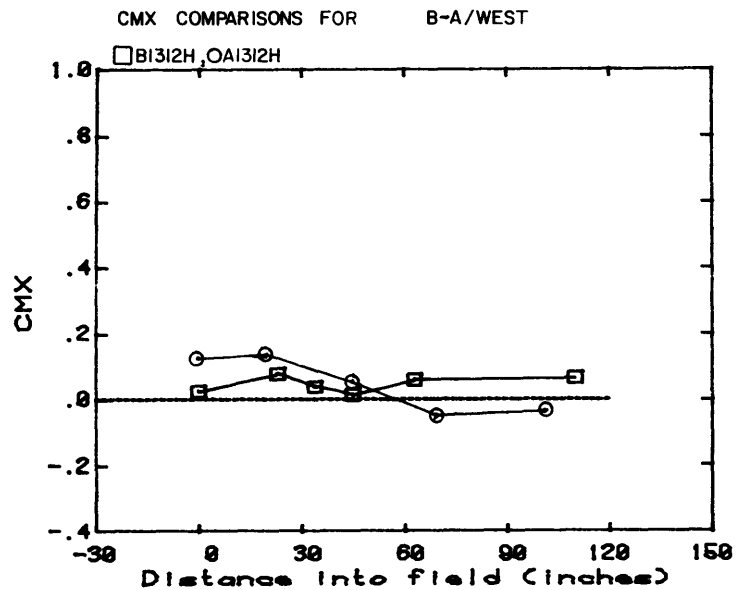


Figure 16 - CMX Comparisons of Zone B to Zone A

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 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).

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	.50	.42	.09	21.0
2	.75	.42	.10	19.9
3	1.00	.42	.11	19.1
4	1.51	.42	.11	18.2
5	1.99	.42	.10	16.1
6	2.50	.42	.11	15.8
7	3.01	.42	.10	15.0
8	3.50	.42	.11	14.5
9	4.00	.42	.11	14.2
10	4.50	.42	.10	13.4
11	5.00	.42	.10	13.1
12	5.50	.42	.09	12.3
13	6.00	.42	.09	12.0
14	6.50	.42	.09	11.7
15	7.00	.42	.08	11.3
16	7.50	.42	.08	10.9
17	8.00	.42	.07	10.4
18	8.50	.42	.07	9.9
19	9.00	.42	.07	9.4
20	9.50	.42	.07	8.9
21	10.00	.42	.07	8.4

NORMALIZED VELOCITY PROFILE APRCH2 REF. VEL. 30.2 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL  
 TIME OF DAY = ALL POSITION OF PROFILE = 2  
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.53	.10	18.4
2	.74	.53	.10	17.2
3	1.01	.53	.10	16.9
4	1.50	.53	.10	16.5
5	2.00	.53	.10	15.4
6	2.49	.53	.10	15.6
7	3.01	.53	.10	14.4
8	3.51	.53	.10	14.8
9	4.00	.53	.09	13.4
10	4.50	.53	.09	13.1
11	5.00	.53	.09	12.3
12	5.50	.53	.09	12.0
13	6.00	.53	.09	11.7
14	6.50	.53	.09	11.3
15	7.00	.53	.09	10.9
16	7.50	.53	.08	10.3
17	8.00	.53	.08	9.9
18	8.50	.53	.07	9.4
19	9.00	.53	.06	8.9
20	9.50	.53	.06	8.4
21	10.00	.53	.07	8.0

NORMALIZED VELOCITY PROFILE APRCH3 REF. VEL. 30.2 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL  
 TIME OF DAY = ALL POSITION OF PROFILE = 3  
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.53	.09	16.0
2	.75	.53	.09	14.9
3	1.00	.53	.08	14.1
4	1.51	.53	.09	13.2
5	1.99	.53	.09	12.8
6	2.50	.53	.09	12.0
7	3.01	.53	.08	12.0
8	3.50	.53	.09	11.1
9	4.00	.53	.08	10.9
10	4.50	.53	.08	10.0
11	5.00	.53	.08	9.9
12	5.50	.53	.08	9.9
13	6.00	.53	.08	9.9
14	6.50	.53	.08	9.9
15	7.00	.53	.07	9.4
16	7.50	.53	.06	8.9
17	8.00	.53	.06	8.4
18	8.50	.53	.06	7.9
19	9.00	.53	.06	7.4
20	9.50	.53	.06	6.9
21	10.00	.53	.08	6.4

NORMALIZED VELOCITY PROFILE APRCH4 REF. VEL. 30.1 FPS

TEST ZONE = BOTH WIND DIRECTION = ALL  
 TIME OF DAY = ALL POSITION OF PROFILE = 4  
 FENCE CONFIGURATION = NO FENCE - UPSTREAM APPROACH FLOW

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.52	.09	17.2
2	.74	.52	.09	17.1
3	1.01	.52	.10	18.1
4	1.50	.52	.10	16.6
5	2.00	.52	.10	16.6
6	2.50	.52	.11	15.4
7	3.01	.52	.10	15.0
8	3.51	.52	.10	14.8
9	4.00	.52	.10	13.4
10	4.50	.52	.09	13.1
11	5.00	.52	.09	12.3
12	5.50	.52	.09	12.0
13	6.00	.52	.09	11.7
14	6.50	.52	.09	11.3
15	7.00	.52	.09	10.9
16	7.50	.52	.08	10.3
17	8.00	.52	.08	9.9
18	8.50	.52	.07	9.4
19	9.00	.52	.07	8.9
20	9.50	.52	.07	8.4
21	10.00	.52	.07	7.9



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 (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.52	.09	17.4
2	.75	.53	.09	17.1
3	1.00	.57	.10	17.2
4	1.11	.59	.10	16.6
5	1.11	.61	.10	16.2
6	1.11	.62	.09	16.2
7	1.11	.63	.09	16.2
8	1.11	.64	.09	16.2
9	1.11	.65	.09	16.2
10	1.11	.66	.09	16.2
11	1.11	.67	.09	16.2
12	1.11	.68	.09	16.2
13	1.11	.69	.09	16.2
14	1.11	.70	.09	16.2
15	1.11	.71	.09	16.2
16	1.11	.72	.09	16.2
17	1.11	.73	.09	16.2
18	1.11	.74	.09	16.2
19	1.11	.75	.09	16.2
20	1.11	.76	.09	16.2
21	1.11	.77	.09	16.2
22	1.11	.78	.09	16.2
23	1.11	.79	.09	16.2
24	1.11	.80	.09	16.2
25	1.11	.81	.09	16.2
26	1.11	.82	.09	16.2
27	1.11	.83	.09	16.2
28	1.11	.84	.09	16.2
29	1.11	.85	.09	16.2
30	1.11	.86	.09	16.2
31	1.11	.87	.09	16.2
32	1.11	.88	.09	16.2
33	1.11	.89	.09	16.2
34	1.11	.90	.09	16.2
35	1.11	.91	.09	16.2
36	1.11	.92	.09	16.2
37	1.11	.93	.09	16.2
38	1.11	.94	.09	16.2
39	1.11	.95	.09	16.2
40	1.11	.96	.09	16.2
41	1.11	.97	.09	16.2
42	1.11	.98	.09	16.2
43	1.11	.99	.09	16.2
44	1.11	1.00	.09	16.2

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 (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.59	.07	11.7
2	.75	.61	.07	10.7
3	1.00	.60	.08	12.9
4	1.11	.64	.07	11.1
5	1.11	.68	.07	10.8
6	1.11	.71	.07	10.0
7	1.11	.73	.07	9.9
8	1.11	.74	.07	9.9
9	1.11	.75	.07	9.9
10	1.11	.76	.07	9.9
11	1.11	.77	.07	9.9
12	1.11	.79	.07	9.9
13	1.11	.77	.07	9.9
14	1.11	.82	.07	9.9
15	1.11	.86	.07	9.9
16	1.11	.88	.07	9.9
17	1.11	.87	.07	9.9
18	1.11	.90	.07	9.9
19	1.11	.93	.07	9.9
20	1.11	.96	.07	9.9
21	1.11	.97	.07	9.9
22	1.11	.98	.07	9.9
23	1.11	1.00	.08	9.9

NORMALIZED VELOCITY PROFILE B12101 REF. VEL. 20.0 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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.54	.10	18.1
2	.74	.53	.09	16.0
3	.99	.54	.09	15.0
4	1.24	.54	.09	14.4
5	1.49	.54	.09	13.8
6	1.74	.54	.09	13.2
7	1.99	.54	.09	12.6
8	2.24	.54	.09	12.0
9	2.49	.54	.09	11.4
10	2.74	.54	.09	10.8
11	2.99	.54	.09	10.2
12	3.24	.54	.09	9.6
13	3.49	.54	.09	9.0
14	3.74	.54	.09	8.4
15	3.99	.54	.09	7.8
16	4.24	.54	.09	7.2
17	4.49	.54	.09	6.6
18	4.74	.54	.09	6.0
19	4.99	.54	.09	5.4
20	5.24	.54	.09	4.8
21	5.49	.54	.09	4.2
22	5.74	.54	.09	3.6
23	5.99	.54	.09	3.0
24	6.24	.54	.09	2.4
25	6.49	.54	.09	1.8
26	6.74	.54	.09	1.2
27	6.99	.54	.09	.6

NORMALIZED VELOCITY PROFILE B12102 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 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	.54	.08	13.9
2	.74	.53	.08	14.6
3	1.01	.54	.08	15.7
4	1.28	.55	.10	17.7
5	1.55	.56	.12	18.1
6	1.82	.57	.11	16.8
7	2.09	.58	.10	14.4
8	2.36	.59	.10	14.4
9	2.63	.60	.10	14.4
10	2.90	.61	.10	14.4
11	3.17	.62	.09	14.1
12	3.44	.63	.08	12.8
13	3.71	.64	.08	10.8
14	3.98	.65	.08	10.0
15	4.25	.66	.08	9.8
16	4.52	.67	.07	8.8
17	4.79	.68	.07	8.4

NORMALIZED VELOCITY PROFILE B12103 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 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	.58	.08	14.4
2	.74	.59	.08	14.2
3	.99	.57	.08	14.0
4	1.24	.64	.09	14.4
5	1.49	.64	.09	14.4
6	1.74	.66	.08	14.2
7	1.99	.66	.08	13.8
8	2.24	.66	.08	13.4
9	2.49	.66	.08	13.0
10	2.74	.66	.08	12.6
11	2.99	.66	.08	12.2
12	3.24	.66	.08	11.8
13	3.49	.66	.08	11.4
14	3.74	.66	.08	11.0
15	3.99	.66	.08	10.6
16	4.24	.66	.08	10.2
17	4.49	.66	.08	9.8
18	4.74	.66	.08	9.4
19	4.99	.66	.08	9.0
20	5.24	.66	.08	8.6
21	5.49	.66	.08	8.2
22	5.74	.66	.08	7.8
23	5.99	.66	.08	7.4
24	6.24	.66	.08	7.0
25	6.49	.66	.08	6.6
26	6.74	.66	.08	6.2
27	6.99	.66	.08	5.8

NORMALIZED VELOCITY PROFILE B12104 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 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	.47	.09	18.3
2	.72	.47	.08	17.1
3	.98	.49	.10	19.3
4	1.24	.53	.10	19.4
5	1.50	.57	.10	18.5
6	1.76	.63	.11	17.5
7	2.02	.64	.11	16.5
8	2.28	.66	.10	15.5
9	2.54	.67	.10	14.5
10	2.80	.67	.10	13.5
11	3.06	.67	.10	12.5
12	3.32	.67	.10	11.5
13	3.58	.67	.10	10.5
14	3.84	.67	.10	9.5
15	4.10	.67	.10	8.5
16	4.36	.67	.10	7.5
17	4.62	.67	.10	6.5
18	4.88	.67	.10	5.5
19	5.14	.67	.10	4.5
20	5.40	.67	.10	3.5
21	5.66	.67	.10	2.5
22	5.92	.67	.10	1.5
23	6.18	.67	.10	.5
24	6.44	.67	.10	.5
25	6.70	.67	.10	.5
26	6.96	.67	.10	.5
27	7.22	.67	.10	.5

NORMALIZED VELOCITY PROFILE B12105 REF. VEL. 20.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U/URMS (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.55	.08	14.3
2	45	.60	.08	13.7
3	40	.65	.08	13.0
4	35	.70	.08	12.3
5	30	.75	.08	11.6
6	25	.80	.08	10.9
7	20	.85	.08	10.2
8	15	.90	.08	9.5
9	10	.95	.08	8.8
10	5	1.00	.08	8.1
11	6.4	.71	.08	8.8
12	6.6	.74	.10	9.0
13	6.7	.74	.08	9.4
14	6.8	.78	.08	9.6
15	6.7	.80	.07	9.4
16	6.9	.79	.08	9.6
17	6.8	.85	.07	9.5
18	6.5	.89	.07	9.6

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.10	.06	64
2	72	.10	.07	61
3	97	.11	.08	58
4	124	.11	.09	55
5	150	.12	.10	52
6	177	.13	.11	49
7	204	.14	.12	46
8	230	.15	.13	43
9	257	.16	.14	40
10	284	.17	.15	37
11	310	.17	.16	34
12	337	.18	.17	31
13	364	.19	.18	28
14	390	.19	.19	25
15	417	.20	.20	22
16	444	.20	.21	19
17	470	.21	.22	16
18	497	.21	.23	13
19	524	.22	.24	10
20	550	.22	.25	7
21	577	.23	.26	4
22	604	.23	.27	1
23	630	.24	.28	0
24	657	.24	.29	0
25	684	.25	.30	0
26	710	.25	.31	0
27	737	.26	.32	0
28	764	.26	.33	0
29	790	.27	.34	0
30	817	.27	.35	0
31	844	.28	.36	0
32	870	.28	.37	0
33	897	.29	.38	0
34	924	.29	.39	0
35	950	.30	.40	0
36	977	.30	.41	0
37	1004	.31	.42	0
38	1030	.31	.43	0
39	1057	.32	.44	0
40	1084	.32	.45	0
41	1110	.33	.46	0
42	1137	.33	.47	0
43	1164	.34	.48	0
44	1190	.34	.49	0
45	1217	.35	.50	0
46	1244	.35	.51	0
47	1270	.36	.52	0
48	1297	.36	.53	0
49	1324	.37	.54	0
50	1350	.37	.55	0
51	1377	.38	.56	0
52	1404	.38	.57	0
53	1430	.39	.58	0
54	1457	.39	.59	0
55	1484	.40	.60	0
56	1510	.40	.61	0
57	1537	.41	.62	0
58	1564	.41	.63	0
59	1590	.42	.64	0
60	1617	.42	.65	0
61	1644	.43	.66	0
62	1670	.43	.67	0
63	1697	.44	.68	0
64	1724	.44	.69	0
65	1750	.45	.70	0
66	1777	.45	.71	0
67	1804	.46	.72	0
68	1830	.46	.73	0
69	1857	.47	.74	0
70	1884	.47	.75	0
71	1910	.48	.76	0
72	1937	.48	.77	0
73	1964	.49	.78	0
74	1990	.49	.79	0
75	2017	.50	.80	0
76	2044	.50	.81	0
77	2070	.51	.82	0
78	2097	.51	.83	0
79	2124	.52	.84	0
80	2150	.52	.85	0
81	2177	.53	.86	0
82	2204	.53	.87	0
83	2230	.54	.88	0
84	2257	.54	.89	0
85	2284	.55	.90	0
86	2310	.55	.91	0
87	2337	.56	.92	0
88	2364	.56	.93	0
89	2390	.57	.94	0
90	2417	.57	.95	0
91	2444	.58	.96	0
92	2470	.58	.97	0
93	2497	.59	.98	0
94	2524	.59	.99	0
95	2550	.60	1.00	0
96	2577	.60	1.00	0
97	2604	.61	1.00	0
98	2630	.61	1.00	0
99	2657	.62	1.00	0
100	2684	.62	1.00	0

NORMALIZED VELOCITY PROFILE B13111 REF. VEL. 31.6 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 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	.12	.07	60
2	72	.13	.08	57
3	97	.15	.09	54
4	124	.16	.10	51
5	150	.18	.11	48
6	177	.19	.12	45
7	204	.20	.13	42
8	230	.22	.14	39
9	257	.23	.15	36
10	284	.24	.16	33
11	310	.25	.17	30
12	337	.26	.18	27
13	364	.27	.19	24
14	390	.28	.20	21
15	417	.29	.21	18
16	444	.30	.22	15
17	470	.31	.23	12
18	497	.32	.24	9
19	524	.33	.25	6
20	550	.34	.26	3
21	577	.35	.27	0
22	604	.36	.28	0
23	630	.37	.29	0
24	657	.38	.30	0
25	684	.39	.31	0
26	710	.40	.32	0
27	737	.41	.33	0
28	764	.42	.34	0
29	790	.43	.35	0
30	817	.44	.36	0
31	844	.45	.37	0
32	870	.46	.38	0
33	897	.47	.39	0
34	924	.48	.40	0
35	950	.49	.41	0
36	977	.50	.42	0
37	1004	.51	.43	0
38	1030	.52	.44	0
39	1057	.53	.45	0
40	1084	.54	.46	0
41	1110	.55	.47	0
42	1137	.56	.48	0
43	1164	.57	.49	0
44	1190	.58	.50	0
45	1217	.59	.51	0
46	1244	.60	.52	0
47	1270	.61	.53	0
48	1297	.62	.54	0
49	1324	.63	.55	0
50	1350	.64	.56	0
51	1377	.65	.57	0
52	1404	.66	.58	0
53	1430	.67	.59	0
54	1457	.68	.60	0
55	1484	.69	.61	0
56	1510	.70	.62	0
57	1537	.71	.63	0
58	1564	.72	.64	0
59	1590	.73	.65	0
60	1617	.74	.66	0
61	1644	.75	.67	0
62	1670	.76	.68	0
63	1697	.77	.69	0
64	1724	.78	.70	0
65	1750	.79	.71	0
66	1777	.80	.72	0
67	1804	.81	.73	0
68	1830	.82	.74	0
69	1857	.83	.75	0
70	1884	.84	.76	0
71	1910	.85	.77	0
72	1937	.86	.78	0
73	1964	.87	.79	0
74	1990	.88	.80	0
75	2017	.89	.81	0
76	2044	.90	.82	0
77	2070	.91	.83	0
78	2097	.92	.84	0
79	2124	.93	.85	0
80	2150	.94	.86	0
81	2177	.95	.87	0
82	2204	.96	.88	0
83	2230	.97	.89	0
84	2257	.98	.90	0
85	2284	.99	.91	0
86	2310	1.00	.92	0
87	2337	1.00	.93	0
88	2364	1.00	.94	0
89	2390	1.00	.95	0
90	2417	1.00	.96	0
91	2444	1.00	.97	0
92	2470	1.00	.98	0
93	2497	1.00	.99	0
94	2524	1.00	1.00	0
95	2550	1.00	1.00	0
96	2577	1.00	1.00	0
97	2604	1.00	1.00	0
98	2630	1.00	1.00	0
99	2657	1.00	1.00	0
100	2684	1.00	1.00	0

NORMALIZED VELOCITY PROFILE B13121 REF. VEL. 32.1 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 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	.10	.06	64
2	72	.10	.07	61
3	97	.11	.08	58
4	124	.11	.09	55
5	150	.12	.10	52
6	177	.13	.11	49
7	204	.14	.12	46
8	230	.15	.13	43
9	257	.16	.14	40
10	284	.17	.15	37
11	310	.17	.16	34
12	337	.18	.17	31
13	364	.19	.18	28
14	390	.19	.19	25
15	417	.20	.20	22
16	444	.20	.21	19
17	470	.21	.22	16
18	497	.21	.23	13
19	524	.22	.24	10
20	550	.22	.25	7
21	577	.23	.26	4
22	604	.23	.27	1
23	630	.24	.28	0
24	657	.24	.29	0
25	684	.25	.30	0
26	710	.25	.31	0
27	737	.26	.32	0
28	764	.26	.33	0
29	790	.27	.34	0
30	817	.27	.35	0
31	844	.28	.36	0
32	870	.28	.37	0
33	897	.29	.38	0
34	924	.29	.39	0
35	950	.30	.40	0
36	977	.30	.41	0
37	1004	.31	.42	0
38	1030	.31	.43	0
39	1057	.32	.44	0
40	1084	.32	.45	0
41	1110	.33	.46	0
42	1137	.33	.47	0
43	1164	.34	.48	0
44	1190	.34	.49	0
45	1217	.35	.50	0
46	1244	.35	.51	0
47	1270	.36	.52	0
48	1297	.36	.53	0
49	1324	.37	.54	0
50	1350	.37	.55	0
51	1377	.38	.56	0
52	1404	.38	.57	0
53	1430	.39	.58	0
54	1457	.39	.59	0
55	1484	.40	.60	0
56	1510	.40	.61	0
57	1537	.41	.62	0
58	1564	.41	.63	0
59	1590	.42	.64	0
60	1617	.42	.65	0
61	1644	.43	.66	0
62	1670	.43	.67	0
63	1697	.44	.68	0
64	1724	.44	.69	0
65	1750	.45	.70	0
66	1777	.45	.71	0
67	1804	.46	.72	0
68	1830	.46	.73	0
69	1857	.47	.74	0
70	1884	.47	.75	0
71	1910	.48	.76	0
72	1937	.48	.77	0
73	1964	.49	.78	0
74	1990	.49	.79	0
75	2017	.50	.80	0
76	2044	.50	.81	0
77	2070	.51	.82	0
78	2097	.51	.83	0
79	2124	.52	.84	0
80	2150	.52	.85	0
81	2177	.53	.86	0
82	2204	.53	.87	0
83	2230	.54	.88	0
84	2257	.54	.89	0

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	30	.51	.08	14.8
2	32	.52	.08	14.7
3	34	.51	.08	15.3
4	36	.54	.11	19.9
5	38	.55	.11	19.6
6	40	.65	.11	16.9
7	42	.67	.10	14.4
8	44	.71	.09	12.4
9	46	.70	.09	13.1
10	48	.71	.10	14.2
11	50	.74	.09	11.7
12	52	.75	.08	10.7
13	54	.78	.07	9.3
14	56	.79	.08	9.5
15	58	.81	.07	8.5
16	60	.84	.07	7.9
17	62	.88	.06	7.2

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	30	.19	.10	32.0
2	32	.22	.10	38.9
3	34	.22	.11	30.6
4	36	.24	.11	47.9
5	38	.24	.13	45.7
6	40	.26	.14	36.6
7	42	.26	.14	36.6
8	44	.33	.15	22.2
9	46	.38	.16	16.6
10	48	.47	.16	12.4
11	50	.52	.16	11.1
12	52	.62	.15	12.4
13	54	.69	.14	9.9
14	56	.78	.10	8.8
15	58	.83	.08	10.0
16	60	.87	.07	8.4
17	62	.90	.07	7.3

NORMALIZED VELOCITY PROFILE B13122 REF. VEL. 32.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	30	.27	.10	38.3
2	32	.29	.10	44.4
3	34	.30	.11	46.4
4	36	.33	.13	46.4
5	38	.35	.14	46.4
6	40	.40	.14	46.4
7	42	.44	.14	46.4
8	44	.50	.14	46.4
9	46	.55	.14	46.4
10	48	.60	.14	46.4
11	50	.66	.14	46.4
12	52	.71	.14	46.4
13	54	.76	.14	46.4
14	56	.80	.14	46.4
15	58	.83	.14	46.4
16	60	.86	.14	46.4
17	62	.88	.14	46.4

NORMALIZED VELOCITY PROFILE B13132 REF. VEL. 32.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	30	.20	.10	34.1
2	32	.23	.09	31.7
3	34	.23	.10	33.2
4	36	.24	.11	34.3
5	38	.26	.12	34.4
6	40	.29	.13	34.4
7	42	.33	.14	34.4
8	44	.37	.14	34.4
9	46	.41	.14	34.4
10	48	.45	.14	34.4
11	50	.47	.14	34.4
12	52	.50	.14	34.4
13	54	.53	.14	34.4
14	56	.56	.14	34.4
15	58	.59	.14	34.4
16	60	.61	.14	34.4
17	62	.63	.14	34.4

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.56	.08	14.1
2	.75	.58	.08	14.7
3	1.00	.59	.08	15.3
4	1.25	.61	.08	15.9
5	1.50	.63	.08	16.5
6	1.75	.66	.08	17.1
7	2.00	.66	.08	17.7
8	2.25	.66	.08	18.3
9	2.50	.66	.08	18.9
10	2.75	.66	.08	19.5
11	3.00	.66	.08	20.1
12	3.25	.66	.08	20.7
13	3.50	.66	.08	21.3
14	3.75	.66	.08	21.9
15	4.00	.66	.08	22.5
16	4.25	.66	.08	23.1
17	4.50	.66	.08	23.7

NORMALIZED VELOCITY PROFILE B13113 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.27	.11	42.3
2	.75	.28	.12	42.1
3	1.00	.29	.12	42.0
4	1.25	.32	.12	42.0
5	1.50	.33	.12	42.0
6	1.75	.33	.12	42.0
7	2.00	.33	.12	42.0
8	2.25	.33	.12	42.0
9	2.50	.33	.12	42.0
10	2.75	.33	.12	42.0
11	3.00	.33	.12	42.0
12	3.25	.33	.12	42.0
13	3.50	.33	.12	42.0
14	3.75	.33	.12	42.0
15	4.00	.33	.12	42.0
16	4.25	.33	.12	42.0
17	4.50	.33	.12	42.0

NORMALIZED VELOCITY PROFILE B13123 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.38	.10	26.2
2	.75	.41	.10	26.2
3	1.00	.41	.10	26.2
4	1.25	.44	.11	26.2
5	1.50	.44	.11	26.2
6	1.75	.46	.12	26.2
7	2.00	.48	.13	26.2
8	2.25	.51	.13	26.2
9	2.50	.54	.14	26.2
10	2.75	.55	.14	26.2
11	3.00	.60	.15	26.2
12	3.25	.67	.16	26.2
13	3.50	.71	.17	26.2
14	3.75	.77	.18	26.2
15	4.00	.79	.19	26.2
16	4.25	.82	.20	26.2
17	4.50	.85	.21	26.2

NORMALIZED VELOCITY PROFILE B13133 REF. VEL. 31.3 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 TIME OF DAY = NOON POSITION OF PROFILE = 3  
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.39	.10	26.5
2	.75	.41	.10	26.5
3	1.00	.41	.10	26.5
4	1.25	.44	.11	26.5
5	1.50	.44	.11	26.5
6	1.75	.46	.12	26.5
7	2.00	.48	.13	26.5
8	2.25	.49	.13	26.5
9	2.50	.53	.14	26.5
10	2.75	.55	.14	26.5
11	3.00	.61	.15	26.5
12	3.25	.66	.16	26.5
13	3.50	.69	.17	26.5
14	3.75	.75	.18	26.5
15	4.00	.81	.19	26.5
16	4.25	.82	.20	26.5
17	4.50	.85	.21	26.5

NORMALIZED VELOCITY PROFILE B13104 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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.53	.08	1
2	.71	.53	.09	1
3	.93	.53	.09	1
4	1.11	.53	.11	1
5	1.22	.53	.11	1
6	1.40	.53	.11	1
7	1.47	.53	.11	1
8	1.65	.53	.10	1
9	1.92	.53	.10	1
10	2.20	.53	.08	1
11	2.47	.53	.08	1
12	2.74	.53	.07	1
13	3.01	.53	.07	1
14	3.29	.53	.06	1
15	3.56	.53	.06	1
16	3.84	.53	.06	1
17	4.11	.53	.06	1
18	4.39	.53	.06	1
19	4.66	.53	.06	1
20	4.94	.53	.06	1
21	5.21	.53	.06	1
22	5.49	.53	.06	1
23	5.76	.53	.06	1
24	6.04	.53	.06	1
25	6.31	.53	.06	1
26	6.59	.53	.06	1
27	6.86	.53	.06	1
28	7.14	.53	.06	1
29	7.41	.53	.06	1
30	7.69	.53	.06	1
31	7.96	.53	.06	1
32	8.24	.53	.06	1
33	8.51	.53	.06	1
34	8.79	.53	.06	1
35	9.06	.53	.06	1
36	9.34	.53	.06	1
37	9.61	.53	.06	1
38	9.89	.53	.06	1
39	10.16	.53	.06	1
40	10.44	.53	.06	1
41	10.71	.53	.06	1
42	10.99	.53	.06	1
43	11.26	.53	.06	1
44	11.54	.53	.06	1
45	11.81	.53	.06	1
46	12.09	.53	.06	1
47	12.36	.53	.06	1
48	12.64	.53	.06	1
49	12.91	.53	.06	1
50	13.19	.53	.06	1
51	13.46	.53	.06	1
52	13.74	.53	.06	1
53	14.01	.53	.06	1
54	14.29	.53	.06	1
55	14.56	.53	.06	1
56	14.84	.53	.06	1
57	15.11	.53	.06	1
58	15.39	.53	.06	1
59	15.66	.53	.06	1
60	15.94	.53	.06	1
61	16.21	.53	.06	1
62	16.49	.53	.06	1
63	16.76	.53	.06	1
64	17.04	.53	.06	1
65	17.31	.53	.06	1
66	17.59	.53	.06	1
67	17.86	.53	.06	1
68	18.14	.53	.06	1
69	18.41	.53	.06	1
70	18.69	.53	.06	1
71	18.96	.53	.06	1
72	19.24	.53	.06	1
73	19.51	.53	.06	1
74	19.79	.53	.06	1
75	20.06	.53	.06	1
76	20.34	.53	.06	1
77	20.61	.53	.06	1
78	20.89	.53	.06	1
79	21.16	.53	.06	1
80	21.44	.53	.06	1
81	21.71	.53	.06	1
82	21.99	.53	.06	1
83	22.26	.53	.06	1
84	22.54	.53	.06	1
85	22.81	.53	.06	1
86	23.09	.53	.06	1
87	23.36	.53	.06	1
88	23.64	.53	.06	1
89	23.91	.53	.06	1
90	24.19	.53	.06	1
91	24.46	.53	.06	1
92	24.74	.53	.06	1
93	25.01	.53	.06	1
94	25.29	.53	.06	1
95	25.56	.53	.06	1
96	25.84	.53	.06	1
97	26.11	.53	.06	1
98	26.39	.53	.06	1
99	26.66	.53	.06	1
100	26.94	.53	.06	1

NORMALIZED VELOCITY PROFILE B13114 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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.38	.10	27
2	.71	.38	.11	27
3	.93	.40	.10	27
4	1.11	.41	.10	27
5	1.22	.41	.11	27
6	1.40	.44	.12	27
7	1.47	.44	.12	27
8	1.65	.46	.14	27
9	1.92	.49	.14	27
10	2.20	.53	.13	27
11	2.47	.53	.13	27
12	2.74	.53	.14	27
13	3.01	.53	.14	27
14	3.29	.53	.14	27
15	3.56	.53	.14	27
16	3.84	.53	.14	27
17	4.11	.53	.14	27
18	4.39	.53	.14	27
19	4.66	.53	.14	27
20	4.94	.53	.14	27
21	5.21	.53	.14	27
22	5.49	.53	.14	27
23	5.76	.53	.14	27
24	6.04	.53	.14	27
25	6.31	.53	.14	27
26	6.59	.53	.14	27
27	6.86	.53	.14	27
28	7.14	.53	.14	27
29	7.41	.53	.14	27
30	7.69	.53	.14	27
31	7.96	.53	.14	27
32	8.24	.53	.14	27
33	8.51	.53	.14	27
34	8.79	.53	.14	27
35	9.06	.53	.14	27
36	9.34	.53	.14	27
37	9.61	.53	.14	27
38	9.89	.53	.14	27
39	10.16	.53	.14	27
40	10.44	.53	.14	27
41	10.71	.53	.14	27
42	10.99	.53	.14	27
43	11.26	.53	.14	27
44	11.54	.53	.14	27
45	11.81	.53	.14	27
46	12.09	.53	.14	27
47	12.36	.53	.14	27
48	12.64	.53	.14	27
49	12.91	.53	.14	27
50	13.19	.53	.14	27
51	13.46	.53	.14	27
52	13.74	.53	.14	27
53	14.01	.53	.14	27
54	14.29	.53	.14	27
55	14.56	.53	.14	27
56	14.84	.53	.14	27
57	15.11	.53	.14	27
58	15.39	.53	.14	27
59	15.66	.53	.14	27
60	15.94	.53	.14	27
61	16.21	.53	.14	27
62	16.49	.53	.14	27
63	16.76	.53	.14	27
64	17.04	.53	.14	27
65	17.31	.53	.14	27
66	17.59	.53	.14	27
67	17.86	.53	.14	27
68	18.14	.53	.14	27
69	18.41	.53	.14	27
70	18.69	.53	.14	27
71	18.96	.53	.14	27
72	19.24	.53	.14	27
73	19.51	.53	.14	27
74	19.79	.53	.14	27
75	20.06	.53	.14	27
76	20.34	.53	.14	27
77	20.61	.53	.14	27
78	20.89	.53	.14	27
79	21.16	.53	.14	27
80	21.44	.53	.14	27
81	21.71	.53	.14	27
82	21.99	.53	.14	27
83	22.26	.53	.14	27
84	22.54	.53	.14	27
85	22.81	.53	.14	27
86	23.09	.53	.14	27
87	23.36	.53	.14	27
88	23.64	.53	.14	27
89	23.91	.53	.14	27
90	24.19	.53	.14	27
91	24.46	.53	.14	27
92	24.74	.53	.14	27
93	25.01	.53	.14	27
94	25.29	.53	.14	27
95	25.56	.53	.14	27
96	25.84	.53	.14	27
97	26.11	.53	.14	27
98	26.39	.53	.14	27
99	26.66	.53	.14	27
100	26.94	.53	.14	27

NORMALIZED VELOCITY PROFILE B13124 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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.43	.09	22
2	.71	.43	.09	22
3	.93	.43	.09	22
4	1.11	.43	.10	22
5	1.22	.43	.10	22
6	1.40	.43	.11	22
7	1.47	.43	.11	22
8	1.65	.43	.11	22
9	1.92	.43	.12	22
10	2.20	.43	.12	22
11	2.47	.43	.12	22
12	2.74	.43	.12	22
13	3.01	.43	.12	22
14	3.29	.43	.12	22
15	3.56	.43	.12	22
16	3.84	.43	.12	22
17	4.11	.43	.12	22
18	4.39	.43	.12	22
19	4.66	.43	.12	22
20	4.94	.43	.12	22
21	5.21	.43	.12	22
22	5.49	.43	.12	22
23	5.76	.43	.12	22
24	6.04	.43	.12	22
25	6.31	.43	.12	22
26	6.59	.43	.12	22
27	6.86	.43	.12	22
28	7.14	.43	.12	22
29	7.41	.43	.12	22
30	7.69	.43	.12	22
31	7.96	.43	.12	22
32	8.24	.43	.12	22
33	8.51	.43	.12	22
34	8.79	.43	.12	22
35	9.06	.43	.12	22
36	9.34	.43	.12	22
37	9.61	.43	.12	22
38	9.89	.43	.12	22
39	10.16	.43	.12	22
40	10.44	.43	.12	22
41	10.71	.43	.12	22
42	10.99	.43	.12	22
43	11.26	.43	.12	22
44	11.54	.43	.12	22
45	11.81	.43	.12	22
46	12.09	.43	.12	22
47	12.36	.43	.12	22
48	12.64	.43	.12	22
49	12.91	.43	.12	22
50	13.19	.43	.12	22
51	13.46	.43	.12	22
52	13.74	.43	.12	22
53	14.01	.43	.12	22
54	14.29	.43	.12	22
55	14.56	.43	.12	22
56	14.84	.43	.12	22
57	15.11	.43	.12	22
58	15.39	.43	.12	22
59	15.66	.43	.12	22
60	15.94	.43	.12	22
61	16.21	.43	.12	22
62	16.49	.43	.12	22
63	16.76	.43	.12	22
64	17.04	.43	.12	22
65	17.31	.43	.12	22
66	17.59	.43	.12	22
67	17.86	.43	.12	22
68	18.14	.43	.12	22
69	18.41	.43	.12	22
70	18.69	.43	.12	22
71	18.96	.43	.12	22
72	19.24	.43	.12	22
73	19.51	.43	.12	22
74	19.79	.43	.12	22
75	20.06	.43	.12	22
76	20.			

NORMALIZED VELOCITY PROFILE B13105 REF. VEL. 31.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.35	.63	.08	100
2	.44	.61	.07	100
3	.53	.61	.08	100
4	.62	.60	.07	100
5	.71	.60	.08	100
6	.80	.60	.08	100
7	.89	.60	.08	100
8	.98	.60	.08	100
9	1.07	.60	.08	100
10	1.16	.60	.08	100
11	1.25	.60	.08	100
12	1.34	.60	.08	100
13	1.43	.60	.08	100
14	1.52	.60	.08	100
15	1.61	.60	.08	100
16	1.70	.60	.08	100
17	1.79	.60	.08	100

NORMALIZED VELOCITY PROFILE B13115 REF. VEL. 31.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.35	.40	.10	100
2	.44	.42	.11	100
3	.53	.44	.11	100
4	.62	.44	.11	100
5	.71	.44	.11	100
6	.80	.44	.11	100
7	.89	.44	.11	100
8	.98	.44	.11	100
9	1.07	.44	.11	100
10	1.16	.44	.11	100
11	1.25	.44	.11	100
12	1.34	.44	.11	100
13	1.43	.44	.11	100
14	1.52	.44	.11	100
15	1.61	.44	.11	100
16	1.70	.44	.11	100
17	1.79	.44	.11	100

NORMALIZED VELOCITY PROFILE B13125 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.35	.60	.09	100
2	.44	.60	.10	100
3	.53	.60	.10	100
4	.62	.60	.10	100
5	.71	.60	.10	100
6	.80	.60	.10	100
7	.89	.60	.10	100
8	.98	.60	.10	100
9	1.07	.60	.10	100
10	1.16	.60	.10	100
11	1.25	.60	.10	100
12	1.34	.60	.10	100
13	1.43	.60	.10	100
14	1.52	.60	.10	100
15	1.61	.60	.10	100
16	1.70	.60	.10	100
17	1.79	.60	.10	100

NORMALIZED VELOCITY PROFILE B13135 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.35	.48	.09	100
2	.44	.49	.09	100
3	.53	.49	.09	100
4	.62	.49	.09	100
5	.71	.49	.09	100
6	.80	.49	.09	100
7	.89	.49	.09	100
8	.98	.49	.09	100
9	1.07	.49	.09	100
10	1.16	.49	.09	100
11	1.25	.49	.09	100
12	1.34	.49	.09	100
13	1.43	.49	.09	100
14	1.52	.49	.09	100
15	1.61	.49	.09	100
16	1.70	.49	.09	100
17	1.79	.49	.09	100



NORMALIZED VELOCITY PROFILE B23101

REF. VEL. 31.2 FPS

TEST ZONE = B

WIND DIRECTION = WNW

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	21.7
2	49	.49	.10	20.8
3	48	.49	.10	19.8
4	47	.53	.09	18.9
5	46	.53	.09	18.9
6	45	.56	.09	18.9
7	44	.56	.09	18.9
8	43	.56	.09	18.9
9	42	.56	.09	18.9
10	41	.56	.09	18.9
11	40	.56	.09	18.9
12	39	.56	.09	18.9
13	38	.56	.09	18.9
14	37	.56	.09	18.9
15	36	.56	.09	18.9
16	35	.56	.09	18.9

NORMALIZED VELOCITY PROFILE B23111

REF. VEL. 32.1 FPS

TEST ZONE = B

WIND DIRECTION = WNW

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.20	.08	41.8
2	49	.25	.10	39.6
3	48	.25	.11	41.7
4	47	.22	.10	33.6
5	46	.33	.12	37.7
6	45	.44	.14	35.9
7	44	.50	.15	35.9
8	43	.51	.15	35.9
9	42	.51	.15	35.9
10	41	.51	.15	35.9
11	40	.51	.15	35.9
12	39	.51	.15	35.9
13	38	.51	.15	35.9
14	37	.51	.15	35.9
15	36	.51	.15	35.9
16	35	.51	.15	35.9

NORMALIZED VELOCITY PROFILE B23121

REF. VEL. 31.7 FPS

TEST ZONE = B

WIND DIRECTION = WNW

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	.34	.10	29.6
2	49	.34	.10	28.4
3	48	.35	.10	29.7
4	47	.33	.11	32.5
5	46	.33	.11	33.0
6	45	.32	.11	35.4
7	44	.37	.13	36.4
8	43	.45	.16	36.6
9	42	.52	.15	36.2
10	41	.69	.12	17.8
11	40	.73	.10	13.1
12	39	.77	.09	12.1
13	38	.77	.09	11.7
14	37	.84	.09	10.3
15	36	.85	.08	9.3
16	35	.89	.07	8.1

NORMALIZED VELOCITY PROFILE B23131

REF. VEL. 31.8 FPS

TEST ZONE = B

WIND DIRECTION = WNW

TIME OF DAY = NOON

POSITION OF PROFILE = 1

FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.52	.12	23.0
2	49	.54	.11	19.7
3	48	.55	.12	20.9
4	47	.58	.11	19.2
5	46	.60	.11	19.0
6	45	.64	.12	18.1
7	44	.67	.11	16.1
8	43	.68	.10	14.5
9	42	.70	.10	14.5
10	41	.72	.09	12.5
11	40	.73	.09	12.5
12	39	.74	.09	11.7
13	38	.77	.09	11.1
14	37	.81	.08	9.8
15	36	.86	.08	8.8
16	35	.89	.07	7.7

NORMALIZED VELOCITY PROFILE B23102 REF. VEL. 31.8 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	.37	.09	24.9
2	.73	.10	.10	26.0
3	.96	.11	.11	26.8
4	1.19	.13	.13	29.8
5	1.42	.14	.14	26.4
6	1.65	.12	.12	21.7
7	1.88	.11	.11	18.1
8	2.11	.10	.10	15.5
9	2.34	.10	.10	14.7
10	2.57	.09	.09	14.1
11	2.80	.09	.09	12.2
12	3.03	.08	.08	11.1
13	3.26	.08	.08	10.2
14	3.49	.08	.08	10.0
15	3.72	.07	.07	8.7

NORMALIZED VELOCITY PROFILE B23112 REF. VEL. 31.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.23	.11	46.1
2	.74	.11	.11	43.8
3	.98	.12	.12	45.1
4	1.22	.13	.13	42.8
5	1.46	.14	.14	40.5
6	1.70	.16	.16	37.2
7	1.94	.16	.16	33.0
8	2.18	.16	.16	29.6
9	2.42	.15	.15	25.9
10	2.66	.13	.13	19.0
11	2.90	.12	.12	14.7
12	3.14	.10	.10	12.0
13	3.38	.09	.09	11.4
14	3.62	.08	.08	9.7
15	3.86	.08	.08	8.2
16	4.10	.08	.08	8.0
17	4.34	.08	.08	8.0

NORMALIZED VELOCITY PROFILE B23122 REF. VEL. 31.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.29	.11	44.0
2	.74	.11	.11	42.7
3	.98	.12	.12	44.4
4	1.22	.13	.13	42.7
5	1.46	.14	.14	40.6
6	1.70	.15	.15	38.6
7	1.94	.15	.15	36.6
8	2.18	.14	.14	34.6
9	2.42	.13	.13	32.6
10	2.66	.12	.12	30.6
11	2.90	.11	.11	28.6
12	3.14	.09	.09	26.6
13	3.38	.08	.08	24.6
14	3.62	.08	.08	22.6
15	3.86	.08	.08	20.6
16	4.10	.07	.07	18.6
17	4.34	.07	.07	16.6
18	4.58	.07	.07	14.6
19	4.82	.07	.07	12.6
20	5.06	.07	.07	10.6
21	5.30	.07	.07	8.6
22	5.54	.07	.07	6.6
23	5.78	.07	.07	4.6
24	6.02	.07	.07	2.6
25	6.26	.07	.07	0.6
26	6.50	.07	.07	0.6
27	6.74	.07	.07	0.6
28	6.98	.07	.07	0.6
29	7.22	.07	.07	0.6
30	7.46	.07	.07	0.6
31	7.70	.07	.07	0.6
32	7.94	.07	.07	0.6
33	8.18	.07	.07	0.6
34	8.42	.07	.07	0.6
35	8.66	.07	.07	0.6
36	8.90	.07	.07	0.6
37	9.14	.07	.07	0.6
38	9.38	.07	.07	0.6
39	9.62	.07	.07	0.6
40	9.86	.07	.07	0.6
41	10.10	.07	.07	0.6
42	10.34	.07	.07	0.6
43	10.58	.07	.07	0.6
44	10.82	.07	.07	0.6
45	11.06	.07	.07	0.6
46	11.30	.07	.07	0.6
47	11.54	.07	.07	0.6
48	11.78	.07	.07	0.6
49	12.02	.07	.07	0.6
50	12.26	.07	.07	0.6
51	12.50	.07	.07	0.6
52	12.74	.07	.07	0.6
53	12.98	.07	.07	0.6
54	13.22	.07	.07	0.6
55	13.46	.07	.07	0.6
56	13.70	.07	.07	0.6
57	13.94	.07	.07	0.6
58	14.18	.07	.07	0.6
59	14.42	.07	.07	0.6
60	14.66	.07	.07	0.6
61	14.90	.07	.07	0.6
62	15.14	.07	.07	0.6
63	15.38	.07	.07	0.6
64	15.62	.07	.07	0.6
65	15.86	.07	.07	0.6
66	16.10	.07	.07	0.6
67	16.34	.07	.07	0.6
68	16.58	.07	.07	0.6
69	16.82	.07	.07	0.6
70	17.06	.07	.07	0.6
71	17.30	.07	.07	0.6
72	17.54	.07	.07	0.6
73	17.78	.07	.07	0.6
74	18.02	.07	.07	0.6
75	18.26	.07	.07	0.6
76	18.50	.07	.07	0.6
77	18.74	.07	.07	0.6
78	18.98	.07	.07	0.6
79	19.22	.07	.07	0.6
80	19.46	.07	.07	0.6
81	19.70	.07	.07	0.6
82	19.94	.07	.07	0.6
83	20.18	.07	.07	0.6
84	20.42	.07	.07	0.6
85	20.66	.07	.07	0.6
86	20.90	.07	.07	0.6
87	21.14	.07	.07	0.6
88	21.38	.07	.07	0.6
89	21.62	.07	.07	0.6
90	21.86	.07	.07	0.6
91	22.10	.07	.07	0.6
92	22.34	.07	.07	0.6
93	22.58	.07	.07	0.6
94	22.82	.07	.07	0.6
95	23.06	.07	.07	0.6
96	23.30	.07	.07	0.6
97	23.54	.07	.07	0.6
98	23.78	.07	.07	0.6
99	24.02	.07	.07	0.6
100	24.26	.07	.07	0.6

NORMALIZED VELOCITY PROFILE B23132 REF. VEL. 31.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.10	.10	45.6
2	.74	.13	.13	40.0
3	.98	.15	.15	35.4
4	1.22	.17	.17	30.8
5	1.46	.19	.19	26.2
6	1.70	.21	.21	21.6
7	1.94	.23	.23	17.0
8	2.18	.25	.25	12.4
9	2.42	.27	.27	7.8
10	2.66	.29	.29	3.2
11	2.90	.31	.31	0.6
12	3.14	.33	.33	0.6
13	3.38	.35	.35	0.6
14	3.62	.37	.37	0.6
15	3.86	.39	.39	0.6
16	4.10	.41	.41	0.6
17	4.34	.43	.43	0.6
18	4.58	.45	.45	0.6
19	4.82	.47	.47	0.6
20	5.06	.49	.49	0.6
21	5.30	.51	.51	0.6
22	5.54	.53	.53	0.6
23	5.78	.55	.55	0.6
24	6.02	.57	.57	0.6
25	6.26	.59	.59	0.6
26	6.50	.61	.61	0.6
27	6.74	.63	.63	0.6
28	6.98	.65	.65	0.6
29	7.22	.67	.67	0.6
30	7.46	.69	.69	0.6
31	7.70	.71	.71	0.6
32	7.94	.73	.73	0.6
33	8.18	.75	.75	0.6
34	8.42	.77	.77	0.6
35	8.66	.79	.79	0.6
36	8.90	.81	.81	0.6
37	9.14	.83	.83	0.6
38	9.38	.85	.85	0.6
39	9.62	.87	.87	0.6
40	9.86	.89	.89	0.6
41	10.10	.91	.91	0.6
42	10.34	.93	.93	0.6
43	10.58	.95	.95	0.6
44	10.82	.97	.97	0.6
45	11.06	.99	.99	0.6
46	11.30	.99	.99	0.6
47	11.54	.99	.99	0.6
48	11.78	.99	.99	0.6
49	12.02	.99	.99	0.6
50	12.26	.99	.99	0.6
51	12.50	.99	.99	0.6
52	12.74	.99	.99	0.6
53	12.98	.99	.99	0.6
54	13.22	.99	.99	0.6
55	13.46	.99	.99	0.6
56	13.70	.99	.99	0.6
57	13.94	.99	.99	0.6
58	14.18	.99	.99	0.6
59	14.42	.99	.99	0.6
60	14.66	.99	.99	0.6
61	14.90	.99	.99	0.6
62	15.14	.99	.99	0.6
63	15.38	.99	.99	0.6
64	15.62	.99	.99	0.6
65	15.86	.99	.99	0.6
66	16.10	.99	.99	0.6
67	16.34	.99	.99	0.6
68	16.58	.99	.99	0.6
69	16.82	.99	.99	0.6
70	17.06	.99	.99	0.6
71	17.30	.99	.99	0.6
72	17.54	.99	.99	0.6
73	17.78	.99	.99	0.6
74	18.02	.99	.99	0.6
75	18.26	.99	.99	0.6
76	18.50	.99	.99	0.6
77	18.74	.99	.99	0.6
78	18.98	.99	.99	0.6
79	19.22	.99	.99	0.6
80	19.46	.99	.99	0.6
81	19.70	.99	.99	0.6
82	19.94	.99	.99	0.6
83	20.18	.99	.99	0.6
84	20.42	.99	.99	0.6
85	20.66	.99	.99	0.6
86	20.90	.99	.99	0.6
87	21.14	.99	.99	0.6
88	21.38	.99	.99	0.6
89	21.62	.99	.99	0.6
90	21.86	.99	.99	0.6
91	22.10	.99	.99	0.6
92	22.34	.99	.99	0.6
93	22.58	.99	.99	0.6
94	22.82	.99	.99	0.6
95	23.06	.99	.99	0.6
96	23.30	.99	.99	0.6
97	23.54	.99	.99	0.6
98	23.78	.99	.99	0.6
99	24.02	.99	.99	0.6
100	24.26	.99	.99	0.6

NORMALIZED VELOCITY PROFILE B23103 REF. VEL. 32.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.42	.10	.33
2	.75	.41	.10	.33
3	1.00	.43	.11	.33
4	1.25	.46	.11	.33
5	1.50	.51	.11	.33
6	1.75	.53	.11	.33
7	2.00	.58	.11	.33
8	2.25	.61	.11	.33
9	2.50	.66	.11	.33
10	2.75	.66	.11	.33
11	3.00	.77	.11	.33
12	3.25	.77	.11	.33
13	3.50	.77	.11	.33
14	3.75	.77	.11	.33
15	4.00	.77	.11	.33
16	4.25	.77	.11	.33
17	4.50	.77	.11	.33
18	4.75	.77	.11	.33
19	5.00	.77	.11	.33
20	5.25	.77	.11	.33
21	5.50	.77	.11	.33
22	5.75	.77	.11	.33
23	6.00	.77	.11	.33
24	6.25	.77	.11	.33
25	6.50	.77	.11	.33
26	6.75	.77	.11	.33
27	7.00	.77	.11	.33
28	7.25	.77	.11	.33
29	7.50	.77	.11	.33
30	7.75	.77	.11	.33
31	8.00	.77	.11	.33
32	8.25	.77	.11	.33
33	8.50	.77	.11	.33
34	8.75	.77	.11	.33
35	9.00	.77	.11	.33
36	9.25	.77	.11	.33
37	9.50	.77	.11	.33
38	9.75	.77	.11	.33
39	10.00	.77	.11	.33
40	10.25	.77	.11	.33
41	10.50	.77	.11	.33
42	10.75	.77	.11	.33
43	11.00	.77	.11	.33
44	11.25	.77	.11	.33
45	11.50	.77	.11	.33
46	11.75	.77	.11	.33
47	12.00	.77	.11	.33
48	12.25	.77	.11	.33
49	12.50	.77	.11	.33
50	12.75	.77	.11	.33
51	13.00	.77	.11	.33
52	13.25	.77	.11	.33
53	13.50	.77	.11	.33
54	13.75	.77	.11	.33
55	14.00	.77	.11	.33
56	14.25	.77	.11	.33
57	14.50	.77	.11	.33
58	14.75	.77	.11	.33
59	15.00	.77	.11	.33
60	15.25	.77	.11	.33
61	15.50	.77	.11	.33
62	15.75	.77	.11	.33
63	16.00	.77	.11	.33
64	16.25	.77	.11	.33
65	16.50	.77	.11	.33
66	16.75	.77	.11	.33
67	17.00	.77	.11	.33
68	17.25	.77	.11	.33
69	17.50	.77	.11	.33
70	17.75	.77	.11	.33
71	18.00	.77	.11	.33
72	18.25	.77	.11	.33
73	18.50	.77	.11	.33
74	18.75	.77	.11	.33
75	19.00	.77	.11	.33
76	19.25	.77	.11	.33
77	19.50	.77	.11	.33
78	19.75	.77	.11	.33
79	20.00	.77	.11	.33
80	20.25	.77	.11	.33
81	20.50	.77	.11	.33
82	20.75	.77	.11	.33
83	21.00	.77	.11	.33
84	21.25	.77	.11	.33
85	21.50	.77	.11	.33
86	21.75	.77	.11	.33
87	22.00	.77	.11	.33
88	22.25	.77	.11	.33
89	22.50	.77	.11	.33
90	22.75	.77	.11	.33
91	23.00	.77	.11	.33
92	23.25	.77	.11	.33
93	23.50	.77	.11	.33
94	23.75	.77	.11	.33
95	24.00	.77	.11	.33
96	24.25	.77	.11	.33
97	24.50	.77	.11	.33
98	24.75	.77	.11	.33
99	25.00	.77	.11	.33
100	25.25	.77	.11	.33
101	25.50	.77	.11	.33
102	25.75	.77	.11	.33
103	26.00	.77	.11	.33
104	26.25	.77	.11	.33
105	26.50	.77	.11	.33
106	26.75	.77	.11	.33
107	27.00	.77	.11	.33
108	27.25	.77	.11	.33
109	27.50	.77	.11	.33
110	27.75	.77	.11	.33
111	28.00	.77	.11	.33
112	28.25	.77	.11	.33
113	28.50	.77	.11	.33
114	28.75	.77	.11	.33
115	29.00	.77	.11	.33
116	29.25	.77	.11	.33
117	29.50	.77	.11	.33
118	29.75	.77	.11	.33
119	30.00	.77	.11	.33
120	30.25	.77	.11	.33
121	30.50	.77	.11	.33
122	30.75	.77	.11	.33
123	31.00	.77	.11	.33
124	31.25	.77	.11	.33
125	31.50	.77	.11	.33
126	31.75	.77	.11	.33
127	32.00	.77	.11	.33
128	32.25	.77	.11	.33
129	32.50	.77	.11	.33
130	32.75	.77	.11	.33
131	33.00	.77	.11	.33
132	33.25	.77	.11	.33
133	33.50	.77	.11	.33
134	33.75	.77	.11	.33
135	34.00	.77	.11	.33
136	34.25	.77	.11	.33
137	34.50	.77	.11	.33
138	34.75	.77	.11	.33
139	35.00	.77	.11	.33
140	35.25	.77	.11	.33
141	35.50	.77	.11	.33
142	35.75	.77	.11	.33
143	36.00	.77	.11	.33
144	36.25	.77	.11	.33
145	36.50	.77	.11	.33
146	36.75	.77	.11	.33
147	37.00	.77	.11	.33
148	37.25	.77	.11	.33
149	37.50	.77	.11	.33
150	37.75	.77	.11	.33
151	38.00	.77	.11	.33
152	38.25	.77	.11	.33
153	38.50	.77	.11	.33
154	38.75	.77	.11	.33
155	39.00	.77	.11	.33
156	39.25	.77	.11	.33
157	39.50	.77	.11	.33
158	39.75	.77	.11	.33
159	40.00	.77	.11	.33
160	40.25	.77	.11	.33
161	40.50	.77	.11	.33
162	40.75	.77	.11	.33
163	41.00	.77	.11	.33
164	41.25	.77	.11	.33
165	41.50	.77	.11	.33
166	41.75	.77	.11	.33
167	42.00	.77	.11	.33
168	42.25	.77	.11	.33
169	42.50	.77	.11	.33
170	42.75	.77	.11	.33
171	43.00	.77	.11	.33
172	43.25	.77	.11	.33
173	43.50	.77	.11	.33
174	43.75	.77	.11	.33
175	44.00	.77	.11	.33
176	44.25	.77	.11	.33
177	44.50	.77	.11	.33
178	44.75	.77	.11	.33
179	45.00	.77	.11	.33
180	45.25	.77	.11	.33
181	45.50	.77	.11	.33
182	45.75	.77	.11	.33
183	46.00	.77	.11	.33
184	46.25	.77	.11	.33
185	46.50	.77	.11	.33
186	46.75	.77	.11	.33
187	47.00	.77	.11	.33
188	47.25	.77	.11	.33
189	47.50	.77	.11	.33
190	47.75	.77	.11	.33
191	48.00	.77	.11	.33
192	48.25	.77	.11	.33
193	48.50	.77	.11	.33
194	48.75	.77	.11	.33
195	49.00	.77	.11	.33
196	49.25	.77	.11	.33
197	49.50	.77	.11	.33
198	49.75	.77	.11	.33
199	50.00	.77	.11	.33
200	50.25	.77	.11	.33
201	50.50	.77	.11	.33
202	50.75	.77	.11	.33
203	51.00	.77	.11	.33
204	51.25	.77	.11	.33
205	51.50	.77	.11	.33
206	51.75	.77	.11	.33
207	52.00	.77	.11	.33
208	52.25	.77	.11	.33
209	52.50	.77	.11	.33
210	52.75	.77	.11	.33
211	53.00	.77	.11	.33
212	53.25	.77	.11	.33
213	53.50	.77	.11	.33
214	53.75	.77	.11	.33
215	54.00	.77	.11	.33
216	54.25	.77	.11	.33
217	54.50	.77	.11	.33
218	54.75	.77	.11	.33
219	55.00	.77	.11	.33
220	55.25	.77	.11	.33
221	55.50	.77	.11	.33
222	55.75	.77	.11	.33
223	56.00	.77	.11	.33
224	56.25	.77	.11	.33
225	56.50	.77	.11	.33
226	56.75	.77	.11	.33
227	57.00	.77	.11	.33
228	57.25	.77	.11	.33
229	57.50	.77	.11	.33
230	57.75	.77	.11	.33
231	58.00	.77	.11	.33
232	58.25	.77	.11	.33
233	58.50	.77	.11	.33
234	58.75	.77	.11	.33
235	59.00	.77	.11	.33
236	59.25	.77	.11	.33
237	59.50	.77	.11	.33
238	59.75	.77	.11	.33
239	60.00	.77	.11	.33
240	60.25	.77	.11	.33
241	60.50	.77	.11	.33
242	60.75	.77	.11	.33
243	61.00	.77	.11	.33
244	61.25	.77	.11	.33
245	61.50	.77	.11	.33
246	61.75	.77	.11	.33
247	62.00	.77	.11	.33
248	62.25	.77	.11	.33
249	62.50	.77	.11	.33
250	62.75	.77	.11	.33
251	63.00	.77	.11	.33
252	63.25	.77	.11	.33
253	63.50	.77	.11	.33
254	63.75	.77	.11	.33
255	64.00	.77	.11	.33
256	64.25	.77	.11	.33
257	64.50	.77	.11	.33
258	64.75	.77	.11	.33
259	65.00	.77	.11	.33
260	65.25	.77	.11	.33
261	65.50	.77	.11	.33
262	65.75	.77	.11	.33
263	66.00	.77	.11	.33
264	66.25	.77	.11	.33
265	66.50	.77	.11	.33
266	66.75	.77	.11	.33
267	67.00	.77	.11	.33
268	67.25	.77	.11	.33
269	67.50	.77	.11	.33
270	67.75	.77	.11	.33
271	68.00	.77	.11	.33
272	68.25	.77	.11	.33
273	68.50	.77	.11	.33
274	68.75	.77	.11	.33
275	69.00	.77	.11	.33
276	69.25	.77	.11	.33
277	69.50	.77	.11	.33
278	69.75	.77	.11	.33
279	70.00	.77	.11	.33

NORMALIZED VELOCITY PROFILE 023153 REF. VEL. 32.3 FPS

TEST ZONE = B WIND DIRECTION = 090  
 TIME OF DAY = NOON POSITION OF PROFILE = 3  
 FENCE CONFIGURATION = 15FT AT 32FT + SHORT CORNER FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	35	.10	.10	0
2	40	.11	.11	0
3	45	.12	.12	0
4	50	.13	.13	0
5	55	.14	.14	0
6	60	.15	.15	0
7	65	.16	.16	0
8	70	.17	.17	0
9	75	.18	.18	0
10	80	.19	.19	0
11	85	.20	.20	0
12	90	.21	.21	0
13	95	.22	.22	0
14	100	.23	.23	0
15	105	.24	.24	0
16	110	.25	.25	0
17	115	.26	.26	0
18	120	.27	.27	0
19	125	.28	.28	0
20	130	.29	.29	0
21	135	.30	.30	0
22	140	.31	.31	0
23	145	.32	.32	0
24	150	.33	.33	0
25	155	.34	.34	0
26	160	.35	.35	0
27	165	.36	.36	0
28	170	.37	.37	0
29	175	.38	.38	0
30	180	.39	.39	0
31	185	.40	.40	0
32	190	.41	.41	0
33	195	.42	.42	0
34	200	.43	.43	0
35	205	.44	.44	0
36	210	.45	.45	0
37	215	.46	.46	0
38	220	.47	.47	0
39	225	.48	.48	0
40	230	.49	.49	0
41	235	.50	.50	0
42	240	.51	.51	0
43	245	.52	.52	0
44	250	.53	.53	0
45	255	.54	.54	0
46	260	.55	.55	0
47	265	.56	.56	0
48	270	.57	.57	0
49	275	.58	.58	0
50	280	.59	.59	0
51	285	.60	.60	0
52	290	.61	.61	0
53	295	.62	.62	0
54	300	.63	.63	0
55	305	.64	.64	0
56	310	.65	.65	0
57	315	.66	.66	0
58	320	.67	.67	0
59	325	.68	.68	0
60	330	.69	.69	0
61	335	.70	.70	0
62	340	.71	.71	0
63	345	.72	.72	0
64	350	.73	.73	0
65	355	.74	.74	0
66	360	.75	.75	0
67	365	.76	.76	0
68	370	.77	.77	0
69	375	.78	.78	0
70	380	.79	.79	0
71	385	.80	.80	0
72	390	.81	.81	0
73	395	.82	.82	0
74	400	.83	.83	0
75	405	.84	.84	0
76	410	.85	.85	0
77	415	.86	.86	0
78	420	.87	.87	0
79	425	.88	.88	0
80	430	.89	.89	0
81	435	.90	.90	0
82	440	.91	.91	0
83	445	.92	.92	0
84	450	.93	.93	0
85	455	.94	.94	0
86	460	.95	.95	0
87	465	.96	.96	0
88	470	.97	.97	0
89	475	.98	.98	0
90	480	.99	.99	0
91	485	1.00	1.00	0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.50	.10	20
11	.75	.51	.11	19
21	1.00	.52	.11	18
31	1.25	.53	.11	17
41	1.50	.54	.11	16
51	1.75	.55	.11	15
61	2.00	.56	.11	14
71	2.25	.57	.11	13
81	2.50	.58	.11	12
91	2.75	.59	.11	11
101	3.00	.60	.11	10
111	3.25	.61	.11	9
121	3.50	.62	.11	8
131	3.75	.63	.11	7
141	4.00	.64	.11	6
151	4.25	.65	.11	5
161	4.50	.66	.11	4
171	4.75	.67	.11	3
181	5.00	.68	.11	2
191	5.25	.69	.11	1
201	5.50	.70	.11	0
211	5.75	.71	.11	0
221	6.00	.72	.11	0
231	6.25	.73	.11	0
241	6.50	.74	.11	0
251	6.75	.75	.11	0
261	7.00	.76	.11	0
271	7.25	.77	.11	0
281	7.50	.78	.11	0
291	7.75	.79	.11	0
301	8.00	.80	.11	0
311	8.25	.81	.11	0
321	8.50	.82	.11	0
331	8.75	.83	.11	0
341	9.00	.84	.11	0
351	9.25	.85	.11	0
361	9.50	.86	.11	0
371	9.75	.87	.11	0
381	10.00	.88	.11	0
391	10.25	.89	.11	0
401	10.50	.90	.11	0
411	10.75	.91	.11	0
421	11.00	.92	.11	0
431	11.25	.93	.11	0
441	11.50	.94	.11	0
451	11.75	.95	.11	0
461	12.00	.96	.11	0
471	12.25	.97	.11	0
481	12.50	.98	.11	0
491	12.75	.99	.11	0
501	13.00	1.00	.11	0
511	13.25	1.01	.11	0
521	13.50	1.02	.11	0
531	13.75	1.03	.11	0
541	14.00	1.04	.11	0
551	14.25	1.05	.11	0
561	14.50	1.06	.11	0
571	14.75	1.07	.11	0
581	15.00	1.08	.11	0
591	15.25	1.09	.11	0
601	15.50	1.10	.11	0
611	15.75	1.11	.11	0
621	16.00	1.12	.11	0
631	16.25	1.13	.11	0
641	16.50	1.14	.11	0
651	16.75	1.15	.11	0
661	17.00	1.16	.11	0
671	17.25	1.17	.11	0
681	17.50	1.18	.11	0
691	17.75	1.19	.11	0
701	18.00	1.20	.11	0
711	18.25	1.21	.11	0
721	18.50	1.22	.11	0
731	18.75	1.23	.11	0
741	19.00	1.24	.11	0
751	19.25	1.25	.11	0
761	19.50	1.26	.11	0
771	19.75	1.27	.11	0
781	20.00	1.28	.11	0
791	20.25	1.29	.11	0
801	20.50	1.30	.11	0
811	20.75	1.31	.11	0
821	21.00	1.32	.11	0
831	21.25	1.33	.11	0
841	21.50	1.34	.11	0
851	21.75	1.35	.11	0
861	22.00	1.36	.11	0
871	22.25	1.37	.11	0
881	22.50	1.38	.11	0
891	22.75	1.39	.11	0
901	23.00	1.40	.11	0
911	23.25	1.41	.11	0
921	23.50	1.42	.11	0
931	23.75	1.43	.11	0
941	24.00	1.44	.11	0
951	24.25	1.45	.11	0
961	24.50	1.46	.11	0
971	24.75	1.47	.11	0
981	25.00	1.48	.11	0
991	25.25	1.49	.11	0
1001	25.50	1.50	.11	0
1011	25.75	1.51	.11	0
1021	26.00	1.52	.11	0
1031	26.25	1.53	.11	0
1041	26.50	1.54	.11	0
1051	26.75	1.55	.11	0
1061	27.00	1.56	.11	0
1071	27.25	1.57	.11	0
1081	27.50	1.58	.11	0
1091	27.75	1.59	.11	0
1101	28.00	1.60	.11	0
1111	28.25	1.61	.11	0
1121	28.50	1.62	.11	0
1131	28.75	1.63	.11	0
1141	29.00	1.64	.11	0
1151	29.25	1.65	.11	0
1161	29.50	1.66	.11	0
1171	29.75	1.67	.11	0
1181	30.00	1.68	.11	0
1191	30.25	1.69	.11	0
1201	30.50	1.70	.11	0
1211	30.75	1.71	.11	0
1221	31.00	1.72	.11	0
1231	31.25	1.73	.11	0
1241	31.50	1.74	.11	0
1251	31.75	1.75	.11	0
1261	32.00	1.76	.11	0
1271	32.25	1.77	.11	0
1281	32.50	1.78	.11	0
1291	32.75	1.79	.11	0
1301	33.00	1.80	.11	0
1311	33.25	1.81	.11	0
1321	33.50	1.82	.11	0
1331	33.75	1.83	.11	0
1341	34.00	1.84	.11	0
1351	34.25	1.85	.11	0
1361	34.50	1.86	.11	0
1371	34.75	1.87	.11	0
1381	35.00	1.88	.11	0
1391	35.25	1.89	.11	0
1401	35.50	1.90	.11	0
1411	35.75	1.91	.11	0
1421	36.00	1.92	.11	0
1431	36.25	1.93	.11	0
1441	36.50	1.94	.11	0
1451	36.75	1.95	.11	0
1461	37.00	1.96	.11	0
1471	37.25	1.97	.11	0
1481	37.50	1.98	.11	0
1491	37.75	1.99	.11	0
1501	38.00	2.00	.11	0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.23	.11	50
11	.75	.23	.11	51
21	1.00	.24	.11	49
31	1.25	.24	.11	47
41	1.50	.25	.11	45
51	1.75	.25	.11	44
61	2.00	.26	.11	43
71	2.25	.26	.11	42
81	2.50	.27	.11	41
91	2.75	.27	.11	40
101	3.00	.28	.11	39
111	3.25	.28	.11	38
121	3.50	.29	.11	37
131	3.75	.29	.11	36
141	4.00	.30	.11	35
151	4.25	.30	.11	34
161	4.50	.31	.11	33
171	4.75	.31	.11	32
181	5.00	.32	.11	31
191	5.25	.32	.11	30
201	5.50	.33	.11	29
211	5.75	.33	.11	28
221	6.00	.34	.11	27
231	6.25	.34	.11	26
241	6.50	.35	.11	25
251	6.75	.35	.11	24
261	7.00	.36	.11	23
271	7.25	.36	.11	22
281	7.50	.37	.11	21
291	7.75	.37	.11	20
301	8.00	.38	.11	19
311	8.25	.38	.11	18
321	8.50	.39	.11	17
331	8.75	.39	.11	16
341	9.00	.40	.11	15
351	9.25	.40	.11	14
361	9.50	.41	.11	13
371	9.75	.41	.11	12
381	10.00	.42	.11	11
391	10.25	.42	.11	10
401	10.50	.43	.11	9
411	10.75	.43	.11	8
421	11.00	.44	.11	7
431	11.25	.44	.11	6
441	11.50	.45	.11	5
451	11.75	.45	.11	4
461	12.00	.46	.11	3
471	12.25	.46	.11	2
481	12.50	.47	.11	1
491	12.75	.47	.11	0
501	13.00	.48	.11	0
511	13.25	.48	.11	0
521	13.50	.49	.11	0
531	13.75	.49	.11	0
541	14.00	.50	.11	0
551	14.25	.50	.11	0
561	14.50	.51	.11	0
571	14.75	.51	.11	0
581	15.00	.52	.11	0
591	15.25	.52	.11	0
601	15.50	.53	.11	0
611	15.75	.53	.11	0
621	16.00	.54	.11	0
631	16.25	.54	.11	0
641	16.50	.55	.11	0
651	16.75	.55	.11	0
661	17.00	.56	.11	0
671	17.25	.56	.11	0
681	17.50	.57	.11	0
691	17.75	.57	.11	0
701	18.00	.58	.11	0
711	18.25	.58	.11	0
721	18.50	.59	.11	0
731	18.75	.59	.11	0
741	19.00	.60	.11	0
751	19.25	.60	.11	0
761	19.50	.61	.11	0
771	19.75	.61	.11	0
781	20.00	.62	.11	0
791	20.25	.62	.11	0
801	20.50	.63	.11	0
811	20.75	.63	.11	0
821	21.00	.64	.11	0
831	21.25	.64	.11	0
841	21.50	.65	.11	0
851	21.75	.65	.11	0
861	22.00	.66	.11	0
871	22.25	.66	.11	0
881	22.50	.67	.11	0
891	22.75	.67	.11	0
901	23.00	.68	.11	0
911	23.25	.68	.11	0
921	23.50	.69	.11	0
931	23.75	.69	.11	0
941	24.00	.70	.11	0
951	24.25	.70	.11	0
961	24.50	.71	.11	0
971	24.75	.71	.11	0
981	25.00	.72	.11	0
991	25.25	.72	.11	0
1001	25.50	.73	.11	0
1011	25.75	.73	.11	0
1021	26.00	.74	.11	0
1031	26.25	.74	.11	0
1041	26.50	.75	.11	0
1051	26.75	.75	.11	0
1061	27.00	.76	.11	0
1071	27.25	.76	.11	0
1081	27.50	.77	.11	0
1091	27.75	.77	.11	0
1101	28.00	.78	.11	0
1111	28.25	.78	.11	0
1121	28.50	.79	.11	0
1131	28.75	.79	.11	0
1141	29.00	.80	.11	0
1151	29.25	.80	.11	0
1161	29.50	.81	.11	0
1171	29.75	.81	.11	0
1181	30.00	.82	.11	0
1191	30.25			

NORMALIZED VELOCITY PROFILE B23105      REF. VEL. 32.4 FPS  
 TEST ZONE = B                              WIND DIRECTION = WNW  
 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	.08	.10	18.9
2	73	.08	.10	18.8
3	97	.08	.09	17.7
4	121	.08	.09	16.1
5	145	.08	.10	16.1
6	169	.08	.10	16.1
7	193	.08	.10	16.1
8	217	.08	.10	16.1
9	241	.08	.10	16.1
10	265	.08	.10	16.1
11	289	.08	.10	16.1
12	313	.08	.10	16.1
13	337	.08	.10	16.1
14	361	.08	.10	16.1
15	385	.08	.10	16.1
16	409	.08	.10	16.1
17	433	.08	.10	16.1
18	457	.08	.10	16.1
19	481	.08	.10	16.1
20	505	.08	.10	16.1
21	529	.08	.10	16.1
22	553	.08	.10	16.1
23	577	.08	.10	16.1
24	601	.08	.10	16.1
25	625	.08	.10	16.1
26	649	.08	.10	16.1
27	673	.08	.10	16.1
28	697	.08	.10	16.1
29	721	.08	.10	16.1
30	745	.08	.10	16.1
31	769	.08	.10	16.1
32	793	.08	.10	16.1
33	817	.08	.10	16.1
34	841	.08	.10	16.1
35	865	.08	.10	16.1
36	889	.08	.10	16.1
37	913	.08	.10	16.1
38	937	.08	.10	16.1
39	961	.08	.10	16.1
40	985	.08	.10	16.1
41	1009	.08	.10	16.1
42	1033	.08	.10	16.1
43	1057	.08	.10	16.1
44	1081	.08	.10	16.1
45	1105	.08	.10	16.1
46	1129	.08	.10	16.1
47	1153	.08	.10	16.1
48	1177	.08	.10	16.1
49	1201	.08	.10	16.1
50	1225	.08	.10	16.1
51	1249	.08	.10	16.1
52	1273	.08	.10	16.1
53	1297	.08	.10	16.1
54	1321	.08	.10	16.1
55	1345	.08	.10	16.1
56	1369	.08	.10	16.1
57	1393	.08	.10	16.1
58	1417	.08	.10	16.1
59	1441	.08	.10	16.1
60	1465	.08	.10	16.1
61	1489	.08	.10	16.1
62	1513	.08	.10	16.1
63	1537	.08	.10	16.1
64	1561	.08	.10	16.1
65	1585	.08	.10	16.1
66	1609	.08	.10	16.1
67	1633	.08	.10	16.1
68	1657	.08	.10	16.1
69	1681	.08	.10	16.1
70	1705	.08	.10	16.1
71	1729	.08	.10	16.1
72	1753	.08	.10	16.1
73	1777	.08	.10	16.1
74	1801	.08	.10	16.1
75	1825	.08	.10	16.1
76	1849	.08	.10	16.1
77	1873	.08	.10	16.1
78	1897	.08	.10	16.1
79	1921	.08	.10	16.1
80	1945	.08	.10	16.1
81	1969	.08	.10	16.1
82	1993	.08	.10	16.1
83	2017	.08	.10	16.1
84	2041	.08	.10	16.1
85	2065	.08	.10	16.1
86	2089	.08	.10	16.1
87	2113	.08	.10	16.1
88	2137	.08	.10	16.1
89	2161	.08	.10	16.1
90	2185	.08	.10	16.1
91	2209	.08	.10	16.1
92	2233	.08	.10	16.1
93	2257	.08	.10	16.1
94	2281	.08	.10	16.1
95	2305	.08	.10	16.1
96	2329	.08	.10	16.1
97	2353	.08	.10	16.1
98	2377	.08	.10	16.1
99	2401	.08	.10	16.1
100	2425	.08	.10	16.1

NORMALIZED VELOCITY PROFILE B23115      REF. VEL. 32.4 FPS  
 TEST ZONE = B                              WIND DIRECTION = WNW  
 TIME OF DAY = NOON                        POSITION OF PROFILE = 5  
 FENCE CONFIGURATION = 20FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.07	.11	39.1
2	73	.07	.11	37.7
3	97	.07	.11	37.7
4	121	.07	.11	37.7
5	145	.07	.11	37.7
6	169	.07	.11	37.7
7	193	.07	.11	37.7
8	217	.07	.11	37.7
9	241	.07	.11	37.7
10	265	.07	.11	37.7
11	289	.07	.11	37.7
12	313	.07	.11	37.7
13	337	.07	.11	37.7
14	361	.07	.11	37.7
15	385	.07	.11	37.7
16	409	.07	.11	37.7
17	433	.07	.11	37.7
18	457	.07	.11	37.7
19	481	.07	.11	37.7
20	505	.07	.11	37.7
21	529	.07	.11	37.7
22	553	.07	.11	37.7
23	577	.07	.11	37.7
24	601	.07	.11	37.7
25	625	.07	.11	37.7
26	649	.07	.11	37.7
27	673	.07	.11	37.7
28	697	.07	.11	37.7
29	721	.07	.11	37.7
30	745	.07	.11	37.7
31	769	.07	.11	37.7
32	793	.07	.11	37.7
33	817	.07	.11	37.7
34	841	.07	.11	37.7
35	865	.07	.11	37.7
36	889	.07	.11	37.7
37	913	.07	.11	37.7
38	937	.07	.11	37.7
39	961	.07	.11	37.7
40	985	.07	.11	37.7
41	1009	.07	.11	37.7
42	1033	.07	.11	37.7
43	1057	.07	.11	37.7
44	1081	.07	.11	37.7
45	1105	.07	.11	37.7
46	1129	.07	.11	37.7
47	1153	.07	.11	37.7
48	1177	.07	.11	37.7
49	1201	.07	.11	37.7
50	1225	.07	.11	37.7
51	1249	.07	.11	37.7
52	1273	.07	.11	37.7
53	1297	.07	.11	37.7
54	1321	.07	.11	37.7
55	1345	.07	.11	37.7
56	1369	.07	.11	37.7
57	1393	.07	.11	37.7
58	1417	.07	.11	37.7
59	1441	.07	.11	37.7
60	1465	.07	.11	37.7
61	1489	.07	.11	37.7
62	1513	.07	.11	37.7
63	1537	.07	.11	37.7
64	1561	.07	.11	37.7
65	1585	.07	.11	37.7
66	1609	.07	.11	37.7
67	1633	.07	.11	37.7
68	1657	.07	.11	37.7
69	1681	.07	.11	37.7
70	1705	.07	.11	37.7
71	1729	.07	.11	37.7
72	1753	.07	.11	37.7
73	1777	.07	.11	37.7
74	1801	.07	.11	37.7
75	1825	.07	.11	37.7
76	1849	.07	.11	37.7
77	1873	.07	.11	37.7
78	1897	.07	.11	37.7
79	1921	.07	.11	37.7
80	1945	.07	.11	37.7
81	1969	.07	.11	37.7
82	1993	.07	.11	37.7
83	2017	.07	.11	37.7
84	2041	.07	.11	37.7
85	2065	.07	.11	37.7
86	2089	.07	.11	37.7
87	2113	.07	.11	37.7
88	2137	.07	.11	37.7
89	2161	.07	.11	37.7
90	2185	.07	.11	37.7
91	2209	.07	.11	37.7
92	2233	.07	.11	37.7
93	2257	.07	.11	37.7
94	2281	.07	.11	37.7
95	2305	.07	.11	37.7
96	2329	.07	.11	37.7
97	2353	.07	.11	37.7
98	2377	.07	.11	37.7
99	2401	.07	.11	37.7
100	2425	.07	.11	37.7

NORMALIZED VELOCITY PROFILE B23125      REF. VEL. 32.5 FPS  
 TEST ZONE = B                              WIND DIRECTION = WNW  
 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	.06	.10	31.6
2	73	.06	.10	32.2
3	97	.06	.10	32.2
4	121	.06	.10	32.2
5	145	.06	.10	32.2
6	169	.06	.10	32.2
7	193	.06	.10	32.2
8	217	.06	.10	32.2
9	241	.06	.10	32.2
10	265	.06	.10	32.2
11	289	.06	.10	32.2
12	313	.06	.10	32.2
13	337	.06	.10	32.2
14	361	.06	.10	32.2
15	385	.06	.10	32.2
16	409	.06	.10	32.2
17	433	.06	.10	32.2
18	457	.06	.10	32.2
19	481	.06	.10	32.2
20	505	.06	.10	32.2
21	529	.06	.10	32.2
22	553	.06	.10	32.2
23	577	.06	.10	32.2
24	601	.06	.10	32.2
25	625	.06	.10	32.2
26	649	.06	.10	32.2
27	673	.06	.10	32.2
28	697	.06	.10	32.2
29	721	.06	.10	32.2
30	745	.06	.10	32.2
31	769	.06	.10	32.2
32	793	.06	.10	32.2
33	817	.06	.10	32.2
34	841	.06	.10	32.2
35	865	.06	.10	32.2
36	889	.06	.10	32.2
37	913	.06	.10	32.2
38	937	.06	.10	32.2
39	961	.06	.10	32.2
40	985	.06	.10	32.2
41	1009	.06	.10	32.2
42	1033	.06	.10	32.2
43	1057	.06	.10	32.2
44	1081	.06	.10	32.2
45	1105	.06	.10	32.2
46	1129	.06	.10	32.2
47	1153	.06	.10	32.2
48	1177	.06	.10	32.2
49	1201	.06	.10	32.2
50	1225	.06	.10	32.2
51	1249	.06	.10	32.2
52	1273	.06	.10	32.2
53	1297	.06	.10	32.2
54	1321	.06	.10	32.2
55	1345	.06	.10	32.2
56	1369	.06	.10	32.2
57	1393	.06	.10	32.2
58	1417	.06	.10	32.2
59	1441	.06	.10	32.2
60	1465	.06	.10	32.2
61	1489	.06	.10	32.2
62	1513	.06	.10	32.2
63	1537	.06	.10	32.2
64	1561	.06	.10	32.2
65	1585	.06	.10	32.2
66	1609	.06	.10	32.2
67	1633	.06	.10	32.2
68	1657	.06	.10	32.2
69	1681	.06	.10	32.2
70				

NORMALIZED VELOCITY PROFILE B31101 REF. VEL. 9.9 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.10	.7
2	55	.44	.10	.7
3	60	.44	.10	.7
4	65	.44	.10	.7
5	70	.44	.10	.7
6	75	.44	.10	.7
7	80	.44	.10	.7
8	85	.44	.10	.7
9	90	.44	.10	.7
10	95	.44	.10	.7
11	100	.44	.10	.7
12	105	.44	.10	.7
13	110	.44	.10	.7
14	115	.44	.10	.7
15	120	.44	.10	.7
16	125	.44	.10	.7
17	130	.44	.10	.7
18	135	.44	.10	.7
19	140	.44	.10	.7
20	145	.44	.10	.7
21	150	.44	.10	.7
22	155	.44	.10	.7
23	160	.44	.10	.7
24	165	.44	.10	.7
25	170	.44	.10	.7
26	175	.44	.10	.7
27	180	.44	.10	.7
28	185	.44	.10	.7
29	190	.44	.10	.7
30	195	.44	.10	.7
31	200	.44	.10	.7
32	205	.44	.10	.7
33	210	.44	.10	.7
34	215	.44	.10	.7
35	220	.44	.10	.7
36	225	.44	.10	.7
37	230	.44	.10	.7
38	235	.44	.10	.7
39	240	.44	.10	.7
40	245	.44	.10	.7
41	250	.44	.10	.7
42	255	.44	.10	.7
43	260	.44	.10	.7
44	265	.44	.10	.7
45	270	.44	.10	.7
46	275	.44	.10	.7
47	280	.44	.10	.7
48	285	.44	.10	.7
49	290	.44	.10	.7
50	295	.44	.10	.7
51	300	.44	.10	.7
52	305	.44	.10	.7
53	310	.44	.10	.7
54	315	.44	.10	.7
55	320	.44	.10	.7
56	325	.44	.10	.7
57	330	.44	.10	.7
58	335	.44	.10	.7
59	340	.44	.10	.7
60	345	.44	.10	.7
61	350	.44	.10	.7
62	355	.44	.10	.7
63	360	.44	.10	.7
64	365	.44	.10	.7
65	370	.44	.10	.7
66	375	.44	.10	.7
67	380	.44	.10	.7
68	385	.44	.10	.7
69	390	.44	.10	.7
70	395	.44	.10	.7
71	400	.44	.10	.7
72	405	.44	.10	.7
73	410	.44	.10	.7
74	415	.44	.10	.7
75	420	.44	.10	.7
76	425	.44	.10	.7
77	430	.44	.10	.7
78	435	.44	.10	.7
79	440	.44	.10	.7
80	445	.44	.10	.7
81	450	.44	.10	.7
82	455	.44	.10	.7
83	460	.44	.10	.7
84	465	.44	.10	.7
85	470	.44	.10	.7
86	475	.44	.10	.7
87	480	.44	.10	.7
88	485	.44	.10	.7
89	490	.44	.10	.7
90	495	.44	.10	.7
91	500	.44	.10	.7
92	505	.44	.10	.7
93	510	.44	.10	.7
94	515	.44	.10	.7
95	520	.44	.10	.7
96	525	.44	.10	.7
97	530	.44	.10	.7
98	535	.44	.10	.7
99	540	.44	.10	.7
100	545	.44	.10	.7

NORMALIZED VELOCITY PROFILE B31102 REF. VEL. 9.9 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.29	.11	36.1
2	55	.29	.11	36.1
3	60	.29	.11	36.1
4	65	.29	.11	36.1
5	70	.29	.11	36.1
6	75	.29	.11	36.1
7	80	.29	.11	36.1
8	85	.29	.11	36.1
9	90	.29	.11	36.1
10	95	.29	.11	36.1
11	100	.29	.11	36.1
12	105	.29	.11	36.1
13	110	.29	.11	36.1
14	115	.29	.11	36.1
15	120	.29	.11	36.1
16	125	.29	.11	36.1
17	130	.29	.11	36.1
18	135	.29	.11	36.1
19	140	.29	.11	36.1
20	145	.29	.11	36.1
21	150	.29	.11	36.1
22	155	.29	.11	36.1
23	160	.29	.11	36.1
24	165	.29	.11	36.1
25	170	.29	.11	36.1
26	175	.29	.11	36.1
27	180	.29	.11	36.1
28	185	.29	.11	36.1
29	190	.29	.11	36.1
30	195	.29	.11	36.1
31	200	.29	.11	36.1
32	205	.29	.11	36.1
33	210	.29	.11	36.1
34	215	.29	.11	36.1
35	220	.29	.11	36.1
36	225	.29	.11	36.1
37	230	.29	.11	36.1
38	235	.29	.11	36.1
39	240	.29	.11	36.1
40	245	.29	.11	36.1
41	250	.29	.11	36.1
42	255	.29	.11	36.1
43	260	.29	.11	36.1
44	265	.29	.11	36.1
45	270	.29	.11	36.1
46	275	.29	.11	36.1
47	280	.29	.11	36.1
48	285	.29	.11	36.1
49	290	.29	.11	36.1
50	295	.29	.11	36.1
51	300	.29	.11	36.1
52	305	.29	.11	36.1
53	310	.29	.11	36.1
54	315	.29	.11	36.1
55	320	.29	.11	36.1
56	325	.29	.11	36.1
57	330	.29	.11	36.1
58	335	.29	.11	36.1
59	340	.29	.11	36.1
60	345	.29	.11	36.1
61	350	.29	.11	36.1
62	355	.29	.11	36.1
63	360	.29	.11	36.1
64	365	.29	.11	36.1
65	370	.29	.11	36.1
66	375	.29	.11	36.1
67	380	.29	.11	36.1
68	385	.29	.11	36.1
69	390	.29	.11	36.1
70	395	.29	.11	36.1
71	400	.29	.11	36.1
72	405	.29	.11	36.1
73	410	.29	.11	36.1
74	415	.29	.11	36.1
75	420	.29	.11	36.1
76	425	.29	.11	36.1
77	430	.29	.11	36.1
78	435	.29	.11	36.1
79	440	.29	.11	36.1
80	445	.29	.11	36.1
81	450	.29	.11	36.1
82	455	.29	.11	36.1
83	460	.29	.11	36.1
84	465	.29	.11	36.1
85	470	.29	.11	36.1
86	475	.29	.11	36.1
87	480	.29	.11	36.1
88	485	.29	.11	36.1
89	490	.29	.11	36.1
90	495	.29	.11	36.1
91	500	.29	.11	36.1
92	505	.29	.11	36.1
93	510	.29	.11	36.1
94	515	.29	.11	36.1
95	520	.29	.11	36.1
96	525	.29	.11	36.1
97	530	.29	.11	36.1
98	535	.29	.11	36.1
99	540	.29	.11	36.1
100	545	.29	.11	36.1

NORMALIZED VELOCITY PROFILE B31103 REF. VEL. 9.9 FPS

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

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

NORMALIZED VELOCITY PROFILE B31105 REF. VEL. 9.9 FPS

TEST ZONE = B 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	.34	.10	.22
2	42	.54	.10	.22
3	54	.66	.10	.22
4	66	.80	.10	.22
5	78	.94	.10	.22
6	90	1.08	.10	.22
7	102	1.22	.10	.22
8	114	1.36	.10	.22
9	126	1.50	.10	.22
10	138	1.64	.10	.22
11	150	1.78	.10	.22
12	162	1.92	.10	.22
13	174	2.06	.10	.22
14	186	2.20	.10	.22
15	198	2.34	.10	.22
16	210	2.48	.10	.22
17	222	2.62	.10	.22
18	234	2.76	.10	.22
19	246	2.90	.10	.22
20	258	3.04	.10	.22
21	270	3.18	.10	.22
22	282	3.32	.10	.22
23	294	3.46	.10	.22
24	306	3.60	.10	.22
25	318	3.74	.10	.22
26	330	3.88	.10	.22
27	342	4.02	.10	.22
28	354	4.16	.10	.22
29	366	4.30	.10	.22
30	378	4.44	.10	.22
31	390	4.58	.10	.22
32	402	4.72	.10	.22
33	414	4.86	.10	.22
34	426	5.00	.10	.22
35	438	5.14	.10	.22
36	450	5.28	.10	.22
37	462	5.42	.10	.22
38	474	5.56	.10	.22
39	486	5.70	.10	.22
40	498	5.84	.10	.22
41	510	5.98	.10	.22
42	522	6.12	.10	.22
43	534	6.26	.10	.22
44	546	6.40	.10	.22
45	558	6.54	.10	.22
46	570	6.68	.10	.22
47	582	6.82	.10	.22
48	594	6.96	.10	.22
49	606	7.10	.10	.22
50	618	7.24	.10	.22
51	630	7.38	.10	.22
52	642	7.52	.10	.22
53	654	7.66	.10	.22
54	666	7.80	.10	.22
55	678	7.94	.10	.22
56	690	8.08	.10	.22
57	702	8.22	.10	.22
58	714	8.36	.10	.22
59	726	8.50	.10	.22
60	738	8.64	.10	.22
61	750	8.78	.10	.22
62	762	8.92	.10	.22
63	774	9.06	.10	.22
64	786	9.20	.10	.22
65	798	9.34	.10	.22
66	810	9.48	.10	.22
67	822	9.62	.10	.22
68	834	9.76	.10	.22
69	846	9.90	.10	.22
70	858	10.04	.10	.22
71	870	10.18	.10	.22
72	882	10.32	.10	.22
73	894	10.46	.10	.22
74	906	10.60	.10	.22
75	918	10.74	.10	.22
76	930	10.88	.10	.22
77	942	11.02	.10	.22
78	954	11.16	.10	.22
79	966	11.30	.10	.22
80	978	11.44	.10	.22
81	990	11.58	.10	.22
82	1002	11.72	.10	.22
83	1014	11.86	.10	.22
84	1026	12.00	.10	.22
85	1038	12.14	.10	.22
86	1050	12.28	.10	.22
87	1062	12.42	.10	.22
88	1074	12.56	.10	.22
89	1086	12.70	.10	.22
90	1098	12.84	.10	.22
91	1110	12.98	.10	.22
92	1122	13.12	.10	.22
93	1134	13.26	.10	.22
94	1146	13.40	.10	.22
95	1158	13.54	.10	.22
96	1170	13.68	.10	.22
97	1182	13.82	.10	.22
98	1194	13.96	.10	.22
99	1206	14.10	.10	.22
100	1218	14.24	.10	.22



NORMALIZED VELOCITY PROFILE B32101 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.43	.10	21.9
2	.75	.44	.11	21.9
3	1.00	.45	.11	21.9
4	1.25	.46	.11	21.9
5	1.50	.47	.11	21.9
6	1.75	.48	.11	21.9
7	2.00	.49	.11	21.9
8	2.25	.50	.11	21.9
9	2.50	.51	.11	21.9
10	2.75	.52	.11	21.9
11	3.00	.53	.11	21.9
12	3.25	.54	.11	21.9
13	3.50	.55	.11	21.9
14	3.75	.56	.11	21.9
15	4.00	.57	.11	21.9
16	4.25	.58	.11	21.9
17	4.50	.59	.11	21.9
18	4.75	.60	.11	21.9
19	5.00	.61	.11	21.9
20	5.25	.62	.11	21.9
21	5.50	.63	.11	21.9
22	5.75	.64	.11	21.9
23	6.00	.65	.11	21.9
24	6.25	.66	.11	21.9
25	6.50	.67	.11	21.9
26	6.75	.68	.11	21.9
27	7.00	.69	.11	21.9
28	7.25	.70	.11	21.9
29	7.50	.71	.11	21.9
30	7.75	.72	.11	21.9
31	8.00	.73	.11	21.9
32	8.25	.74	.11	21.9
33	8.50	.75	.11	21.9
34	8.75	.76	.11	21.9
35	9.00	.77	.11	21.9
36	9.25	.78	.11	21.9
37	9.50	.79	.11	21.9
38	9.75	.80	.11	21.9
39	10.00	.81	.11	21.9
40	10.25	.82	.11	21.9
41	10.50	.83	.11	21.9
42	10.75	.84	.11	21.9
43	11.00	.85	.11	21.9
44	11.25	.86	.11	21.9
45	11.50	.87	.11	21.9
46	11.75	.88	.11	21.9
47	12.00	.89	.11	21.9
48	12.25	.90	.11	21.9
49	12.50	.91	.11	21.9
50	12.75	.92	.11	21.9
51	13.00	.93	.11	21.9
52	13.25	.94	.11	21.9
53	13.50	.95	.11	21.9
54	13.75	.96	.11	21.9
55	14.00	.97	.11	21.9
56	14.25	.98	.11	21.9
57	14.50	.99	.11	21.9
58	14.75	1.00	.11	21.9
59	15.00	1.00	.11	21.9
60	15.25	1.00	.11	21.9
61	15.50	1.00	.11	21.9
62	15.75	1.00	.11	21.9
63	16.00	1.00	.11	21.9
64	16.25	1.00	.11	21.9
65	16.50	1.00	.11	21.9
66	16.75	1.00	.11	21.9
67	17.00	1.00	.11	21.9
68	17.25	1.00	.11	21.9
69	17.50	1.00	.11	21.9
70	17.75	1.00	.11	21.9
71	18.00	1.00	.11	21.9
72	18.25	1.00	.11	21.9
73	18.50	1.00	.11	21.9
74	18.75	1.00	.11	21.9
75	19.00	1.00	.11	21.9
76	19.25	1.00	.11	21.9
77	19.50	1.00	.11	21.9
78	19.75	1.00	.11	21.9
79	20.00	1.00	.11	21.9

NORMALIZED VELOCITY PROFILE B32102 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.38	.11	21.9
2	.75	.39	.11	21.9
3	1.00	.40	.11	21.9
4	1.25	.41	.11	21.9
5	1.50	.42	.11	21.9
6	1.75	.43	.11	21.9
7	2.00	.44	.11	21.9
8	2.25	.45	.11	21.9
9	2.50	.46	.11	21.9
10	2.75	.47	.11	21.9
11	3.00	.48	.11	21.9
12	3.25	.49	.11	21.9
13	3.50	.50	.11	21.9
14	3.75	.51	.11	21.9
15	4.00	.52	.11	21.9
16	4.25	.53	.11	21.9
17	4.50	.54	.11	21.9
18	4.75	.55	.11	21.9
19	5.00	.56	.11	21.9
20	5.25	.57	.11	21.9
21	5.50	.58	.11	21.9
22	5.75	.59	.11	21.9
23	6.00	.60	.11	21.9
24	6.25	.61	.11	21.9
25	6.50	.62	.11	21.9
26	6.75	.63	.11	21.9
27	7.00	.64	.11	21.9
28	7.25	.65	.11	21.9
29	7.50	.66	.11	21.9
30	7.75	.67	.11	21.9
31	8.00	.68	.11	21.9
32	8.25	.69	.11	21.9
33	8.50	.70	.11	21.9
34	8.75	.71	.11	21.9
35	9.00	.72	.11	21.9
36	9.25	.73	.11	21.9
37	9.50	.74	.11	21.9
38	9.75	.75	.11	21.9
39	10.00	.76	.11	21.9
40	10.25	.77	.11	21.9
41	10.50	.78	.11	21.9
42	10.75	.79	.11	21.9
43	11.00	.80	.11	21.9
44	11.25	.81	.11	21.9
45	11.50	.82	.11	21.9
46	11.75	.83	.11	21.9
47	12.00	.84	.11	21.9
48	12.25	.85	.11	21.9
49	12.50	.86	.11	21.9
50	12.75	.87	.11	21.9
51	13.00	.88	.11	21.9
52	13.25	.89	.11	21.9
53	13.50	.90	.11	21.9
54	13.75	.91	.11	21.9
55	14.00	.92	.11	21.9
56	14.25	.93	.11	21.9
57	14.50	.94	.11	21.9
58	14.75	.95	.11	21.9
59	15.00	.96	.11	21.9
60	15.25	.97	.11	21.9
61	15.50	.98	.11	21.9
62	15.75	.99	.11	21.9
63	16.00	1.00	.11	21.9
64	16.25	1.00	.11	21.9
65	16.50	1.00	.11	21.9
66	16.75	1.00	.11	21.9
67	17.00	1.00	.11	21.9
68	17.25	1.00	.11	21.9
69	17.50	1.00	.11	21.9
70	17.75	1.00	.11	21.9
71	18.00	1.00	.11	21.9
72	18.25	1.00	.11	21.9
73	18.50	1.00	.11	21.9
74	18.75	1.00	.11	21.9
75	19.00	1.00	.11	21.9
76	19.25	1.00	.11	21.9
77	19.50	1.00	.11	21.9
78	19.75	1.00	.11	21.9
79	20.00	1.00	.11	21.9

NORMALIZED VELOCITY PROFILE B32103 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.33	.09	22.3
2	.75	.34	.09	22.3
3	1.00	.35	.09	22.3
4	1.25	.36	.09	22.3
5	1.50	.37	.09	22.3
6	1.75	.38	.09	22.3
7	2.00	.39	.09	22.3
8	2.25	.40	.09	22.3
9	2.50	.41	.09	22.3
10	2.75	.42	.09	22.3
11	3.00	.43	.09	22.3
12	3.25	.44	.09	22.3
13	3.50	.45	.09	22.3
14	3.75	.46	.09	22.3
15	4.00	.47	.09	22.3
16	4.25	.48	.09	22.3
17	4.50	.49	.09	22.3
18	4.75	.50	.09	22.3
19	5.00	.51	.09	22.3
20	5.25	.52	.09	22.3
21	5.50	.53	.09	22.3
22	5.75	.54	.09	22.3
23	6.00	.55	.09	22.3
24	6.25	.56	.09	22.3
25	6.50	.57	.09	22.3
26	6.75	.58	.09	22.3
27	7.00	.59	.09	22.3
28	7.25	.60	.09	22.3
29	7.50	.61	.09	22.3
30	7.75	.62	.09	22.3
31	8.00	.63	.09	22.3
32	8.25	.64	.09	22.3
33	8.50	.65	.09	22.3
34	8.75	.66	.09	22.3
35	9.00	.67	.09	22.3
36	9.25	.68	.09	22.3
37	9.50	.69	.09	22.3
38	9.75	.70	.09	22.3
39	10.00	.71	.09	22.3
40	10.25	.72	.09	22.3
41	10.50	.73	.09	22.3
42	10.75	.74	.09	22.3
43	11.00	.75	.09	22.3
44	11.25	.76	.09	22.3
45	11.50	.77	.09	22.3
46	11.75	.78	.09	22.3
47	12.00	.79	.09	22.3
48	12.25	.80	.09	22.3
49	12.50	.81	.09	22.3
50	12.75	.82	.09	22.3
51	13.00	.83	.09	22.3
52	13.25	.84	.09	22.3
53	13.50	.85	.09	22.3
54	13.75	.86	.09	22.3
55	14.00	.87	.09	22.3
56	14.25	.88	.09	22.3
57	14.50	.89	.09	22.3
58	14.75	.90	.09	22.3
59	15.00	.91	.09	22.3
60	15.25	.92	.09	22.3
61	15.50	.93	.09	22.3
62	15.75	.94	.09	22.3
63	16.00	.95	.09	22.3
64	16.25	.96	.09	22.3
65	16.50	.97	.09	22.3
66	16.75	.98	.09	22.3
67	17.00	.99	.09	22.3
68	17.25	1.00	.09	22.3
69	17.50	1.00	.09	22.3
70	17.75	1.00	.09	22.3
71	18.00	1.00	.09	22.3
72	18.25	1.00	.09	22.3
73	18.50	1.00	.09	22.3
74	18.75	1.00	.09	22.3
75	19.00	1.00	.09	22.3
76	19.25	1.00	.09	22.3
77	19.50	1.00	.09	22.3
78	19.75	1.00	.09	22.3
79	20.00	1.00	.09	22.3

NORMALIZED VELOCITY PROFILE B32104 REF. VEL. 20.0 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.28	.09	31.5
2	.75	.29	.09	31.5
3	1.00	.30	.09	31.5
4	1.25	.31	.09	31.5
5	1.50	.32	.09	31.5
6	1.75	.33	.09	31.5
7	2.00	.34	.09	31.5
8	2.25	.35	.09	31.5
9	2.50	.36	.09	31.5
10	2.75	.37	.09	31.5
11	3.00	.38	.09	31.5
12	3.25	.39	.09	31.5
13	3.50	.40	.09	31.5
14	3.75	.41	.09	31.5
15	4.00	.42	.09	31.5
16	4.25	.43	.09	31.5
17	4.50	.44	.09	31.5
18	4.75	.4		

NORMALIZED VELOCITY PROFILE B32105 REF. VEL. 20.0 FPS

TEST ZONE = B 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	1	.000	.000	.000
2	2	.000	.000	.000
3	3	.000	.000	.000
4	4	.000	.000	.000
5	5	.000	.000	.000
6	6	.000	.000	.000
7	7	.000	.000	.000
8	8	.000	.000	.000
9	9	.000	.000	.000
10	10	.000	.000	.000
11	11	.000	.000	.000
12	12	.000	.000	.000
13	13	.000	.000	.000
14	14	.000	.000	.000
15	15	.000	.000	.000
16	16	.000	.000	.000
17	17	.000	.000	.000
18	18	.000	.000	.000
19	19	.000	.000	.000
20	20	.000	.000	.000
21	21	.000	.000	.000
22	22	.000	.000	.000
23	23	.000	.000	.000
24	24	.000	.000	.000
25	25	.000	.000	.000
26	26	.000	.000	.000
27	27	.000	.000	.000
28	28	.000	.000	.000
29	29	.000	.000	.000
30	30	.000	.000	.000
31	31	.000	.000	.000
32	32	.000	.000	.000
33	33	.000	.000	.000
34	34	.000	.000	.000
35	35	.000	.000	.000
36	36	.000	.000	.000
37	37	.000	.000	.000
38	38	.000	.000	.000
39	39	.000	.000	.000
40	40	.000	.000	.000
41	41	.000	.000	.000
42	42	.000	.000	.000
43	43	.000	.000	.000
44	44	.000	.000	.000
45	45	.000	.000	.000
46	46	.000	.000	.000
47	47	.000	.000	.000
48	48	.000	.000	.000
49	49	.000	.000	.000
50	50	.000	.000	.000
51	51	.000	.000	.000
52	52	.000	.000	.000
53	53	.000	.000	.000
54	54	.000	.000	.000
55	55	.000	.000	.000
56	56	.000	.000	.000
57	57	.000	.000	.000
58	58	.000	.000	.000
59	59	.000	.000	.000
60	60	.000	.000	.000
61	61	.000	.000	.000
62	62	.000	.000	.000
63	63	.000	.000	.000
64	64	.000	.000	.000
65	65	.000	.000	.000
66	66	.000	.000	.000
67	67	.000	.000	.000
68	68	.000	.000	.000
69	69	.000	.000	.000
70	70	.000	.000	.000
71	71	.000	.000	.000
72	72	.000	.000	.000
73	73	.000	.000	.000
74	74	.000	.000	.000
75	75	.000	.000	.000
76	76	.000	.000	.000
77	77	.000	.000	.000
78	78	.000	.000	.000
79	79	.000	.000	.000
80	80	.000	.000	.000
81	81	.000	.000	.000
82	82	.000	.000	.000
83	83	.000	.000	.000
84	84	.000	.000	.000
85	85	.000	.000	.000
86	86	.000	.000	.000
87	87	.000	.000	.000
88	88	.000	.000	.000
89	89	.000	.000	.000
90	90	.000	.000	.000
91	91	.000	.000	.000
92	92	.000	.000	.000
93	93	.000	.000	.000
94	94	.000	.000	.000
95	95	.000	.000	.000
96	96	.000	.000	.000
97	97	.000	.000	.000
98	98	.000	.000	.000
99	99	.000	.000	.000
100	100	.000	.000	.000

NORMALIZED VELOCITY PROFILE B33101 REF. VEL. 31.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.13	.05	39.8
2	71	.15	.06	48.5
3	94	.16	.06	57.9
4	111	.16	.06	67.7
5	130	.17	.06	77.5
6	150	.18	.06	87.3
7	171	.19	.06	97.1
8	194	.20	.06	106.9
9	219	.23	.08	116.7
10	244	.46	.16	126.5
11	271	.70	.23	136.3
12	300	.84	.28	146.1
13	330	.82	.28	155.9
14	360	.86	.29	165.7
15	390	.89	.30	175.5
16	420	.91	.31	185.3
17	450	.91	.31	195.1

NORMALIZED VELOCITY PROFILE B33111 REF. VEL. 32.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.13	.05	39.8
2	71	.15	.06	48.5
3	94	.16	.06	57.9
4	111	.16	.06	67.7
5	130	.17	.06	77.5
6	150	.18	.06	87.3
7	171	.19	.06	97.1
8	194	.20	.06	106.9
9	219	.23	.08	116.7
10	244	.46	.16	126.5
11	271	.70	.23	136.3
12	300	.84	.28	146.1
13	330	.82	.28	155.9
14	360	.86	.29	165.7
15	390	.89	.30	175.5
16	420	.91	.31	185.3
17	450	.91	.31	195.1

NORMALIZED VELOCITY PROFILE B33121 REF. VEL. 32.3 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.13	.05	39.8
2	71	.15	.06	48.5
3	94	.16	.06	57.9
4	111	.16	.06	67.7
5	130	.17	.06	77.5
6	150	.18	.06	87.3
7	171	.19	.06	97.1
8	194	.20	.06	106.9
9	219	.23	.08	116.7
10	244	.46	.16	126.5
11	271	.70	.23	136.3
12	300	.84	.28	146.1
13	330	.82	.28	155.9
14	360	.86	.29	165.7
15	390	.89	.30	175.5
16	420	.91	.31	185.3
17	450	.91	.31	195.1

NORMALIZED VELOCITY PROFILE B33131 REF. VEL. 32.4 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.13	.05	39.8
2	71	.15	.06	48.5
3	94	.16	.06	57.9
4	111	.16	.06	67.7
5	130	.17	.06	77.5
6	150	.18	.06	87.3
7	171	.19	.06	97.1
8	194	.20	.06	106.9
9	219	.23	.08	116.7
10	244	.46	.16	126.5
11	271	.70	.23	136.3
12	300	.84	.28	146.1
13	330	.82	.28	155.9
14	360	.86	.29	165.7
15	390	.89	.30	175.5
16	420	.91	.31	185.3
17	450	.91	.31	195.1

NORMALIZED VELOCITY PROFILE B33102 REF. VEL. 32.7 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.31	.10	32
2	44	.30	.11	32
3	38	.29	.11	32
4	32	.28	.11	32
5	26	.27	.11	32
6	20	.26	.11	32
7	14	.25	.11	32
8	8	.24	.11	32
9	2	.23	.11	32
10	0	.22	.11	32
11	0	.21	.11	32
12	0	.20	.11	32
13	0	.19	.11	32
14	0	.18	.11	32
15	0	.17	.11	32
16	0	.16	.11	32
17	0	.15	.11	32
18	0	.14	.11	32
19	0	.13	.11	32
20	0	.12	.11	32
21	0	.11	.11	32
22	0	.10	.11	32
23	0	.09	.11	32
24	0	.08	.11	32
25	0	.07	.11	32
26	0	.06	.11	32
27	0	.05	.11	32
28	0	.04	.11	32
29	0	.03	.11	32
30	0	.02	.11	32
31	0	.01	.11	32
32	0	.00	.11	32
33	0	.00	.11	32
34	0	.00	.11	32
35	0	.00	.11	32
36	0	.00	.11	32
37	0	.00	.11	32
38	0	.00	.11	32
39	0	.00	.11	32
40	0	.00	.11	32
41	0	.00	.11	32
42	0	.00	.11	32
43	0	.00	.11	32
44	0	.00	.11	32
45	0	.00	.11	32
46	0	.00	.11	32
47	0	.00	.11	32
48	0	.00	.11	32
49	0	.00	.11	32
50	0	.00	.11	32

NORMALIZED VELOCITY PROFILE B33112 REF. VEL. 32.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.31	.14	32
2	44	.30	.14	32
3	38	.29	.14	32
4	32	.28	.14	32
5	26	.27	.14	32
6	20	.26	.14	32
7	14	.25	.14	32
8	8	.24	.14	32
9	2	.23	.14	32
10	0	.22	.14	32
11	0	.21	.14	32
12	0	.20	.14	32
13	0	.19	.14	32
14	0	.18	.14	32
15	0	.17	.14	32
16	0	.16	.14	32
17	0	.15	.14	32
18	0	.14	.14	32
19	0	.13	.14	32
20	0	.12	.14	32
21	0	.11	.14	32
22	0	.10	.14	32
23	0	.09	.14	32
24	0	.08	.14	32
25	0	.07	.14	32
26	0	.07	.14	32
27	0	.07	.14	32
28	0	.07	.14	32
29	0	.07	.14	32
30	0	.07	.14	32
31	0	.07	.14	32
32	0	.07	.14	32
33	0	.07	.14	32
34	0	.07	.14	32
35	0	.07	.14	32
36	0	.07	.14	32
37	0	.07	.14	32
38	0	.07	.14	32
39	0	.07	.14	32
40	0	.07	.14	32
41	0	.07	.14	32
42	0	.07	.14	32
43	0	.07	.14	32
44	0	.07	.14	32
45	0	.07	.14	32
46	0	.07	.14	32
47	0	.07	.14	32
48	0	.07	.14	32
49	0	.07	.14	32
50	0	.07	.14	32

NORMALIZED VELOCITY PROFILE B33122 REF. VEL. 32.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.31	.10	32
2	44	.30	.11	32
3	38	.29	.11	32
4	32	.28	.11	32
5	26	.27	.11	32
6	20	.26	.11	32
7	14	.25	.11	32
8	8	.24	.11	32
9	2	.23	.11	32
10	0	.22	.11	32
11	0	.21	.11	32
12	0	.20	.11	32
13	0	.19	.11	32
14	0	.18	.11	32
15	0	.17	.11	32
16	0	.16	.11	32
17	0	.15	.11	32
18	0	.14	.11	32
19	0	.13	.11	32
20	0	.12	.11	32
21	0	.11	.11	32
22	0	.10	.11	32
23	0	.09	.11	32
24	0	.08	.11	32
25	0	.07	.11	32
26	0	.07	.11	32
27	0	.07	.11	32
28	0	.07	.11	32
29	0	.07	.11	32
30	0	.06	.11	32
31	0	.06	.11	32
32	0	.06	.11	32
33	0	.06	.11	32
34	0	.06	.11	32
35	0	.06	.11	32
36	0	.06	.11	32
37	0	.06	.11	32
38	0	.06	.11	32
39	0	.06	.11	32
40	0	.06	.11	32
41	0	.06	.11	32
42	0	.06	.11	32
43	0	.06	.11	32
44	0	.06	.11	32
45	0	.06	.11	32
46	0	.06	.11	32
47	0	.06	.11	32
48	0	.06	.11	32
49	0	.06	.11	32
50	0	.06	.11	32

NORMALIZED VELOCITY PROFILE B33132 REF. VEL. 32.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.31	.10	31
2	44	.30	.10	30
3	38	.29	.11	30
4	32	.28	.11	30
5	26	.27	.11	30
6	20	.26	.11	30
7	14	.25	.11	30
8	8	.24	.11	30
9	2	.23	.11	30
10	0	.22	.11	30
11	0	.21	.11	30
12	0	.20	.11	30
13	0	.19	.11	30
14	0	.18	.11	30
15	0	.17	.11	30
16	0	.16	.11	30
17	0	.15	.11	30
18	0	.14	.11	30
19	0	.13	.11	30
20	0	.12	.11	30
21	0	.11	.11	30
22	0	.10	.11	30
23	0	.09	.11	30
24	0	.08	.11	30
25	0	.07	.11	30
26	0	.07	.11	30
27	0	.07	.11	30
28	0	.07	.11	30
29	0	.07	.11	30
30	0	.06	.11	30
31	0	.06	.11	30
32	0	.06	.11	30
33	0	.06	.11	30
34	0	.06	.11	30
35	0	.06	.11	30
36	0	.06	.11	30
37	0	.06	.11	30
38	0	.06	.11	30
39	0	.06	.11	30
40	0	.06	.11	30
41	0	.06	.11	30
42	0	.06	.11	30
43	0	.06	.11	30
44	0	.06	.11	30
45	0	.06	.11	30
46	0	.06	.11	30
47	0	.06	.11	30
48	0	.06	.11	30
49	0	.06	.11	30
50	0	.06	.11	30

NORMALIZED VELOCITY PROFILE B33103 REF. VEL. 32.0 FPS

TEST ZONE = B WIND DIRECTION = NW  
 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	.33	.12	30.5
2	73	.39	.13	31.6
3	96	.44	.13	31.0
4	119	.49	.13	28.9
5	142	.54	.13	28.4
6	165	.59	.13	28.4
7	188	.64	.13	28.4
8	211	.69	.13	28.4
9	234	.74	.13	28.4
10	257	.79	.13	28.4
11	280	.84	.13	28.4
12	303	.89	.13	28.4
13	326	.94	.13	28.4
14	349	.99	.13	28.4
15	372	1.04	.13	28.4
16	395	1.09	.13	28.4
17	418	1.14	.13	28.4
18	441	1.19	.13	28.4
19	464	1.24	.13	28.4
20	487	1.29	.13	28.4
21	510	1.34	.13	28.4
22	533	1.39	.13	28.4
23	556	1.44	.13	28.4
24	579	1.49	.13	28.4
25	602	1.54	.13	28.4
26	625	1.59	.13	28.4
27	648	1.64	.13	28.4
28	671	1.69	.13	28.4
29	694	1.74	.13	28.4
30	717	1.79	.13	28.4
31	740	1.84	.13	28.4
32	763	1.89	.13	28.4
33	786	1.94	.13	28.4
34	809	1.99	.13	28.4
35	832	2.04	.13	28.4
36	855	2.09	.13	28.4
37	878	2.14	.13	28.4
38	901	2.19	.13	28.4
39	924	2.24	.13	28.4
40	947	2.29	.13	28.4
41	970	2.34	.13	28.4
42	993	2.39	.13	28.4
43	1016	2.44	.13	28.4
44	1039	2.49	.13	28.4
45	1062	2.54	.13	28.4
46	1085	2.59	.13	28.4
47	1108	2.64	.13	28.4
48	1131	2.69	.13	28.4
49	1154	2.74	.13	28.4
50	1177	2.79	.13	28.4
51	1200	2.84	.13	28.4
52	1223	2.89	.13	28.4
53	1246	2.94	.13	28.4
54	1269	2.99	.13	28.4
55	1292	3.04	.13	28.4
56	1315	3.09	.13	28.4
57	1338	3.14	.13	28.4
58	1361	3.19	.13	28.4
59	1384	3.24	.13	28.4
60	1407	3.29	.13	28.4
61	1430	3.34	.13	28.4
62	1453	3.39	.13	28.4
63	1476	3.44	.13	28.4
64	1499	3.49	.13	28.4
65	1522	3.54	.13	28.4
66	1545	3.59	.13	28.4
67	1568	3.64	.13	28.4
68	1591	3.69	.13	28.4
69	1614	3.74	.13	28.4
70	1637	3.79	.13	28.4
71	1660	3.84	.13	28.4
72	1683	3.89	.13	28.4
73	1706	3.94	.13	28.4
74	1729	3.99	.13	28.4
75	1752	4.04	.13	28.4
76	1775	4.09	.13	28.4
77	1798	4.14	.13	28.4
78	1821	4.19	.13	28.4
79	1844	4.24	.13	28.4
80	1867	4.29	.13	28.4
81	1890	4.34	.13	28.4
82	1913	4.39	.13	28.4
83	1936	4.44	.13	28.4
84	1959	4.49	.13	28.4
85	1982	4.54	.13	28.4
86	2005	4.59	.13	28.4
87	2028	4.64	.13	28.4
88	2051	4.69	.13	28.4
89	2074	4.74	.13	28.4
90	2097	4.79	.13	28.4
91	2120	4.84	.13	28.4
92	2143	4.89	.13	28.4
93	2166	4.94	.13	28.4
94	2189	4.99	.13	28.4
95	2212	5.04	.13	28.4
96	2235	5.09	.13	28.4
97	2258	5.14	.13	28.4
98	2281	5.19	.13	28.4
99	2304	5.24	.13	28.4
100	2327	5.29	.13	28.4
101	2350	5.34	.13	28.4
102	2373	5.39	.13	28.4
103	2396	5.44	.13	28.4
104	2419	5.49	.13	28.4
105	2442	5.54	.13	28.4
106	2465	5.59	.13	28.4
107	2488	5.64	.13	28.4
108	2511	5.69	.13	28.4
109	2534	5.74	.13	28.4
110	2557	5.79	.13	28.4
111	2580	5.84	.13	28.4
112	2603	5.89	.13	28.4
113	2626	5.94	.13	28.4
114	2649	5.99	.13	28.4
115	2672	6.04	.13	28.4
116	2695	6.09	.13	28.4
117	2718	6.14	.13	28.4
118	2741	6.19	.13	28.4
119	2764	6.24	.13	28.4
120	2787	6.29	.13	28.4
121	2810	6.34	.13	28.4
122	2833	6.39	.13	28.4
123	2856	6.44	.13	28.4
124	2879	6.49	.13	28.4
125	2902	6.54	.13	28.4
126	2925	6.59	.13	28.4
127	2948	6.64	.13	28.4
128	2971	6.69	.13	28.4
129	2994	6.74	.13	28.4
130	3017	6.79	.13	28.4
131	3040	6.84	.13	28.4
132	3063	6.89	.13	28.4
133	3086	6.94	.13	28.4
134	3109	6.99	.13	28.4
135	3132	7.04	.13	28.4
136	3155	7.09	.13	28.4
137	3178	7.14	.13	28.4
138	3201	7.19	.13	28.4
139	3224	7.24	.13	28.4
140	3247	7.29	.13	28.4
141	3270	7.34	.13	28.4
142	3293	7.39	.13	28.4
143	3316	7.44	.13	28.4
144	3339	7.49	.13	28.4
145	3362	7.54	.13	28.4
146	3385	7.59	.13	28.4
147	3408	7.64	.13	28.4
148	3431	7.69	.13	28.4
149	3454	7.74	.13	28.4
150	3477	7.79	.13	28.4
151	3500	7.84	.13	28.4
152	3523	7.89	.13	28.4
153	3546	7.94	.13	28.4
154	3569	7.99	.13	28.4
155	3592	8.04	.13	28.4
156	3615	8.09	.13	28.4
157	3638	8.14	.13	28.4
158	3661	8.19	.13	28.4
159	3684	8.24	.13	28.4
160	3707	8.29	.13	28.4
161	3730	8.34	.13	28.4
162	3753	8.39	.13	28.4
163	3776	8.44	.13	28.4
164	3799	8.49	.13	28.4
165	3822	8.54	.13	28.4
166	3845	8.59	.13	28.4
167	3868	8.64	.13	28.4
168	3891	8.69	.13	28.4
169	3914	8.74	.13	28.4
170	3937	8.79	.13	28.4
171	3960	8.84	.13	28.4
172	3983	8.89	.13	28.4
173	4006	8.94	.13	28.4
174	4029	8.99	.13	28.4
175	4052	9.04	.13	28.4
176	4075	9.09	.13	28.4
177	4098	9.14	.13	28.4
178	4121	9.19	.13	28.4
179	4144	9.24	.13	28.4
180	4167	9.29	.13	28.4
181	4190	9.34	.13	28.4
182	4213	9.39	.13	28.4
183	4236	9.44	.13	28.4
184	4259	9.49	.13	28.4
185	4282	9.54	.13	28.4
186	4305	9.59	.13	28.4
187	4328	9.64	.13	28.4
188	4351	9.69	.13	28.4
189	4374	9.74	.13	28.4
190	4397	9.79	.13	28.4
191	4420	9.84	.13	28.4
192	4443	9.89	.13	28.4
193	4466	9.94	.13	28.4
194	4489	9.99	.13	28.4
195	4512	10.04	.13	28.4
196	4535	10.09	.13	28.4
197	4558	10.14	.13	28.4
198	4581	10.19	.13	28.4
199	4604	10.24	.13	28.4
200	4627	10.29	.13	28.4
201	4650	10.34	.13	28.4
202	4673	10.39	.13	28.4
203	4696	10.44	.13	28.4
204	4719	10.49	.13	28.4
205	4742	10.54	.13	28.4
206	4765	10.59	.13	28.4
207	4788	10.64	.13	28.4
208	4811	10.69	.13	28.4
209	4834	10.74	.13	28.4
210	4857	10.79	.13	28.4
211	4880	10.84	.13	28.4
212	4903	10.89	.13	28.4
213	4926	10.94	.13	28.4
214	4949	10.99	.13	28.4
215	4972	11.04	.13	28.4
216	4995	11.09	.13	28.4
217	5018	11.14	.13	28.4
218	5041	11.19	.13	28.4
219	5064	11.24	.13	28.4
220	5087	11.29	.13	28.4
221	5110	11.34	.13	28.4
222	5133	11.39	.13	28.4
223	5156	11.44	.13	28.4
224	5179	11.49	.13	28.4
225	5202	11.54	.13	28.4
226	5225	11.59	.13	28.4
227	5248	11.64	.13	28.4
228	5271	11.69	.13	28.4
229	5294	11.74	.13	28.4
230	5317	11.79	.13	28.4
231	5340	11.84	.13	28.4
232	5363	11.89	.13	28.4
233	5386	11.94	.13	28.4
234	5409	11.99	.13	28.4
235	5432	12.04	.13	28.4
236	5455	12.09	.13	28.4
237	5478	12.14	.13	28.4
238	5501	12.19	.13	28.4
239	5524	12.24	.13	28.4
240	5547	12.29	.13	28.4
241	5570	12.34	.13	28.4
242	5593	12.39	.13	28.4
243	5616	12.44	.13	28.4
244	5639	12.49	.13	28.4
245	5662	12.54	.13	28.4
246	5685	12.59	.13	28.4
247	5708	12.64	.13	28.4
248	5731	12.69	.13	28.4
249	5754	12.74	.13	28.4
250	5777	12.79	.13	28.4
251	5800	12.84	.13	28.4
252	5823	12.89	.13	28.4
253	5846	12.94	.13	28.4
254	5869	12.99	.13	28.4
255	5892	13.04	.13	28.4
256	5915	13.09	.13	28.4
257	5938	13.14	.13	28.4
258	5961	13.19	.13	28.4
259	5984	13.24	.13	28.4
260	6007	13.29	.13	28.4
261	6030	13.34	.13	

NORMALIZED VELOCITY PROFILE B33153 REF. VEL. 32.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.23	.10	43.0
2	73	.24	.10	42.5
3	96	.26	.11	41.3
4	119	.28	.11	39.4
5	142	.31	.12	40.7
6	165	.33	.13	39.3
7	188	.35	.13	37.7
8	211	.42	.13	37.7
9	234	.49	.13	37.7
10	257	.57	.13	37.7
11	280	.73	.13	37.7
12	303	.77	.13	37.7
13	326	.80	.13	37.7
14	349	.82	.13	37.7
15	372	.84	.13	37.7
16	395	.87	.13	37.7

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.0000	.0000	0000
2	.75	.0000	.0000	0000
3	1.00	.0000	.0000	0000
4	1.25	.0000	.0000	0000
5	1.50	.0000	.0000	0000
6	1.75	.0000	.0000	0000
7	2.00	.0000	.0000	0000
8	2.25	.0000	.0000	0000
9	2.50	.0000	.0000	0000
10	2.75	.0000	.0000	0000
11	3.00	.0000	.0000	0000
12	3.25	.0000	.0000	0000
13	3.50	.0000	.0000	0000
14	3.75	.0000	.0000	0000
15	4.00	.0000	.0000	0000
16	4.25	.0000	.0000	0000
17	4.50	.0000	.0000	0000
18	4.75	.0000	.0000	0000
19	5.00	.0000	.0000	0000
20	5.25	.0000	.0000	0000
21	5.50	.0000	.0000	0000
22	5.75	.0000	.0000	0000
23	6.00	.0000	.0000	0000
24	6.25	.0000	.0000	0000
25	6.50	.0000	.0000	0000
26	6.75	.0000	.0000	0000
27	7.00	.0000	.0000	0000
28	7.25	.0000	.0000	0000
29	7.50	.0000	.0000	0000
30	7.75	.0000	.0000	0000
31	8.00	.0000	.0000	0000
32	8.25	.0000	.0000	0000
33	8.50	.0000	.0000	0000
34	8.75	.0000	.0000	0000
35	9.00	.0000	.0000	0000
36	9.25	.0000	.0000	0000
37	9.50	.0000	.0000	0000
38	9.75	.0000	.0000	0000
39	10.00	.0000	.0000	0000
40	10.25	.0000	.0000	0000
41	10.50	.0000	.0000	0000
42	10.75	.0000	.0000	0000
43	11.00	.0000	.0000	0000
44	11.25	.0000	.0000	0000
45	11.50	.0000	.0000	0000
46	11.75	.0000	.0000	0000
47	12.00	.0000	.0000	0000
48	12.25	.0000	.0000	0000
49	12.50	.0000	.0000	0000
50	12.75	.0000	.0000	0000
51	13.00	.0000	.0000	0000
52	13.25	.0000	.0000	0000
53	13.50	.0000	.0000	0000
54	13.75	.0000	.0000	0000
55	14.00	.0000	.0000	0000
56	14.25	.0000	.0000	0000
57	14.50	.0000	.0000	0000
58	14.75	.0000	.0000	0000
59	15.00	.0000	.0000	0000
60	15.25	.0000	.0000	0000
61	15.50	.0000	.0000	0000
62	15.75	.0000	.0000	0000
63	16.00	.0000	.0000	0000
64	16.25	.0000	.0000	0000
65	16.50	.0000	.0000	0000
66	16.75	.0000	.0000	0000
67	17.00	.0000	.0000	0000
68	17.25	.0000	.0000	0000
69	17.50	.0000	.0000	0000
70	17.75	.0000	.0000	0000
71	18.00	.0000	.0000	0000
72	18.25	.0000	.0000	0000
73	18.50	.0000	.0000	0000
74	18.75	.0000	.0000	0000
75	19.00	.0000	.0000	0000
76	19.25	.0000	.0000	0000
77	19.50	.0000	.0000	0000
78	19.75	.0000	.0000	0000
79	20.00	.0000	.0000	0000
80	20.25	.0000	.0000	0000
81	20.50	.0000	.0000	0000
82	20.75	.0000	.0000	0000
83	21.00	.0000	.0000	0000
84	21.25	.0000	.0000	0000
85	21.50	.0000	.0000	0000
86	21.75	.0000	.0000	0000
87	22.00	.0000	.0000	0000
88	22.25	.0000	.0000	0000
89	22.50	.0000	.0000	0000
90	22.75	.0000	.0000	0000
91	23.00	.0000	.0000	0000
92	23.25	.0000	.0000	0000
93	23.50	.0000	.0000	0000
94	23.75	.0000	.0000	0000
95	24.00	.0000	.0000	0000
96	24.25	.0000	.0000	0000
97	24.50	.0000	.0000	0000
98	24.75	.0000	.0000	0000
99	25.00	.0000	.0000	0000
100	25.25	.0000	.0000	0000
101	25.50	.0000	.0000	0000
102	25.75	.0000	.0000	0000
103	26.00	.0000	.0000	0000
104	26.25	.0000	.0000	0000
105	26.50	.0000	.0000	0000
106	26.75	.0000	.0000	0000
107	27.00	.0000	.0000	0000
108	27.25	.0000	.0000	0000
109	27.50	.0000	.0000	0000
110	27.75	.0000	.0000	0000
111	28.00	.0000	.0000	0000
112	28.25	.0000	.0000	0000
113	28.50	.0000	.0000	0000
114	28.75	.0000	.0000	0000
115	29.00	.0000	.0000	0000
116	29.25	.0000	.0000	0000
117	29.50	.0000	.0000	0000
118	29.75	.0000	.0000	0000
119	30.00	.0000	.0000	0000
120	30.25	.0000	.0000	0000
121	30.50	.0000	.0000	0000
122	30.75	.0000	.0000	0000
123	31.00	.0000	.0000	0000
124	31.25	.0000	.0000	0000
125	31.50	.0000	.0000	0000
126	31.75	.0000	.0000	0000
127	32.00	.0000	.0000	0000
128	32.25	.0000	.0000	0000
129	32.50	.0000	.0000	0000
130	32.75	.0000	.0000	0000
131	33.00	.0000	.0000	0000
132	33.25	.0000	.0000	0000
133	33.50	.0000	.0000	0000
134	33.75	.0000	.0000	0000
135	34.00	.0000	.0000	0000
136	34.25	.0000	.0000	0000
137	34.50	.0000	.0000	0000
138	34.75	.0000	.0000	0000
139	35.00	.0000	.0000	0000
140	35.25	.0000	.0000	0000
141	35.50	.0000	.0000	0000
142	35.75	.0000	.0000	0000
143	36.00	.0000	.0000	0000
144	36.25	.0000	.0000	0000
145	36.50	.0000	.0000	0000
146	36.75	.0000	.0000	0000
147	37.00	.0000	.0000	0000
148	37.25	.0000	.0000	0000
149	37.50	.0000	.0000	0000
150	37.75	.0000	.0000	0000
151	38.00	.0000	.0000	0000
152	38.25	.0000	.0000	0000
153	38.50	.0000	.0000	0000
154	38.75	.0000	.0000	0000
155	39.00	.0000	.0000	0000
156	39.25	.0000	.0000	0000
157	39.50	.0000	.0000	0000
158	39.75	.0000	.0000	0000
159	40.00	.0000	.0000	0000
160	40.25	.0000	.0000	0000
161	40.50	.0000	.0000	0000
162	40.75	.0000	.0000	0000
163	41.00	.0000	.0000	0000
164	41.25	.0000	.0000	0000
165	41.50	.0000	.0000	0000
166	41.75	.0000	.0000	0000
167	42.00	.0000	.0000	0000
168	42.25	.0000	.0000	0000
169	42.50	.0000	.0000	0000
170	42.75	.0000	.0000	0000
171	43.00	.0000	.0000	0000
172	43.25	.0000	.0000	0000
173	43.50	.0000	.0000	0000
174	43.75	.0000	.0000	0000
175	44.00	.0000	.0000	0000
176	44.25	.0000	.0000	0000
177	44.50	.0000	.0000	0000
178	44.75	.0000	.0000	0000
179	45.00	.0000	.0000	0000
180	45.25	.0000	.0000	0000
181	45.50	.0000	.0000	0000
182	45.75	.0000	.0000	0000
183	46.00	.0000	.0000	0000
184	46.25	.0000	.0000	0000
185	46.50	.0000	.0000	0000
186	46.75	.0000	.0000	0000
187	47.00	.0000	.0000	0000
188	47.25	.0000	.0000	0000
189	47.50	.0000	.0000	0000
190	47.75	.0000	.0000	0000
191	48.00	.0000	.0000	0000
192	48.25	.0000	.0000	0000
193	48.50	.0000	.0000	0000
194	48.75	.0000	.0000	0000
195	49.00	.0000	.0000	0000
196	49.25	.0000	.0000	0000
197	49.50	.0000	.0000	0000
198	49.75	.0000	.0000	0000
199	50.00	.0000	.0000	0000
200	50.25	.0000	.0000	0000
201	50.50	.0000	.0000	0000
202	50.75	.0000	.0000	0000
203	51.00	.0000	.0000	0000
204	51.25	.0000	.0000	0000
205	51.50	.0000	.0000	0000
206	51.75	.0000	.0000	0000
207	52.00	.0000	.0000	0000
208	52.25	.0000	.0000	0000
209	52.50	.0000	.0000	0000
210	52.75	.0000	.0000	0000
211	53.00	.0000	.0000	0000
212	53.25	.0000	.0000	0000
213	53.50	.0000	.0000	0000
214	53.75	.0000	.0000	0000
215	54.00	.0000	.0000	0000
216	54.25	.0000	.0000	0000
217	54.50	.0000	.0000	0000
218	54.75	.0000	.0000	0000
219	55.00	.0000	.0000	0000
220	55.25	.0000	.0000	0000
221	55.50	.0000	.0000	0000
222	55.75	.0000	.0000	0000
223	56.00	.0000	.0000	0000
224	56.25	.0000	.0000	0000
225	56.50	.0000	.0000	0000
226	56.75	.0000	.0000	0000
227	57.00	.0000	.0000	0000
228	57.25	.0000	.0000	0000
229	57.50	.0000	.0000	0000
230	57.75	.0000	.0000	0000
231	58.00	.0000	.0000	0000
232	58.25	.0000	.0000	0000
233	58.50	.0000	.0000	0000
234	58.75	.0000	.0000	0000
235	59.00	.0000	.0000	0000
236	59.25	.0000	.0000	0000
237	59.50	.0000	.0000	0000
238	59.75	.0000	.0000	0000
239	60.00	.0000	.0000	0000
240	60.25	.0000	.0000	0000
241	60.50	.0000	.0000	0000
242	60.75	.0000	.0000	0000
243	61.00	.0000	.0000	0000
244	61.25	.0000	.0000	0000
245	61.50	.0000	.0000	0000
246	61.75	.0000	.0000	0000

NORMALIZED VELOCITY PROFILE B33105 REF. VEL. 31.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/REF)	U <sub>RMS</sub> (U/REF)	TURB INT (PERCENT)
1	50	.27	.09	.03
2	70	.30	.10	.03
3	93	.33	.11	.03
4	111	.36	.11	.03
5	130	.38	.11	.03
6	144	.41	.12	.03
7	159	.44	.12	.03
8	177	.48	.13	.03
9	199	.53	.14	.03
10	222	.58	.15	.03
11	246	.64	.16	.03
12	270	.71	.17	.03
13	297	.79	.18	.03
14	324	.87	.19	.03
15	354	.96	.20	.03
16	387	1.06	.21	.03

NORMALIZED VELOCITY PROFILE B33115 REF. VEL. 31.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/REF)	U <sub>RMS</sub> (U/REF)	TURB INT (PERCENT)
1	50	.21	.08	.07
2	70	.25	.11	.07
3	93	.30	.11	.07
4	111	.37	.12	.07
5	130	.39	.13	.07
6	144	.44	.14	.07
7	159	.46	.15	.07
8	177	.51	.15	.07
9	199	.55	.16	.07
10	222	.60	.17	.07
11	246	.65	.18	.07
12	270	.70	.19	.07
13	297	.75	.20	.07
14	324	.80	.21	.07
15	354	.85	.22	.07
16	387	.90	.23	.07

NORMALIZED VELOCITY PROFILE B33125 REF. VEL. 31.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/REF)	U <sub>RMS</sub> (U/REF)	TURB INT (PERCENT)
1	50	.29	.09	.03
2	70	.32	.10	.03
3	93	.35	.11	.03
4	111	.38	.11	.03
5	130	.41	.12	.03
6	144	.44	.12	.03
7	159	.47	.13	.03
8	177	.50	.13	.03
9	199	.54	.14	.03
10	222	.58	.15	.03
11	246	.63	.16	.03
12	270	.68	.17	.03
13	297	.73	.18	.03
14	324	.78	.19	.03
15	354	.84	.20	.03
16	387	.90	.21	.03

NORMALIZED VELOCITY PROFILE B33135 REF. VEL. 31.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/REF)	U <sub>RMS</sub> (U/REF)	TURB INT (PERCENT)
1	50	.28	.10	.04
2	70	.32	.11	.04
3	93	.36	.11	.04
4	111	.40	.12	.04
5	130	.44	.13	.04
6	144	.47	.13	.04
7	159	.50	.14	.04
8	177	.54	.15	.04
9	199	.58	.15	.04
10	222	.62	.16	.04
11	246	.66	.17	.04
12	270	.70	.18	.04
13	297	.74	.19	.04
14	324	.78	.20	.04
15	354	.82	.21	.04
16	387	.86	.22	.04
17	420	.90	.23	.04



NORMALIZED VELOCITY PROFILE B43101 REF. VEL. 29.9 FPS

TEST ZONE = B WIND DIRECTION = NNE  
 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	1	.09	.06	23.1
2	2	.11	.08	23.1
3	3	.13	.10	23.1
4	4	.15	.12	23.1
5	5	.17	.14	23.1
6	6	.19	.16	23.1
7	7	.21	.18	23.1
8	8	.23	.20	23.1
9	9	.25	.22	23.1
10	10	.27	.24	23.1
11	11	.29	.26	23.1
12	12	.31	.28	23.1
13	13	.33	.30	23.1
14	14	.35	.32	23.1
15	15	.37	.34	23.1
16	16	.39	.36	23.1
17	17	.41	.38	23.1

NORMALIZED VELOCITY PROFILE B43111 REF. VEL. 30.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.05	.03	17.7
2	2	.06	.04	17.7
3	3	.07	.05	17.7
4	4	.08	.06	17.7
5	5	.09	.07	17.7
6	6	.10	.08	17.7
7	7	.11	.09	17.7
8	8	.12	.10	17.7
9	9	.13	.11	17.7
10	10	.14	.12	17.7
11	11	.15	.13	17.7
12	12	.16	.14	17.7
13	13	.17	.15	17.7
14	14	.18	.16	17.7
15	15	.19	.17	17.7
16	16	.20	.18	17.7
17	17	.21	.19	17.7

NORMALIZED VELOCITY PROFILE B43121 REF. VEL. 30.3 FPS

TEST ZONE = B WIND DIRECTION = NNE  
 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	.24	.06	23.1
2	2	.11	.06	23.1
3	3	.17	.06	23.1
4	4	.15	.06	23.1
5	5	.11	.06	23.1
6	6	.14	.06	23.1
7	7	.11	.06	23.1
8	8	.14	.06	23.1
9	9	.11	.06	23.1
10	10	.14	.06	23.1
11	11	.11	.06	23.1
12	12	.14	.06	23.1
13	13	.11	.06	23.1
14	14	.14	.06	23.1
15	15	.11	.06	23.1
16	16	.14	.06	23.1
17	17	.11	.06	23.1

NORMALIZED VELOCITY PROFILE B43131 REF. VEL. 30.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	1	.09	.06	67.2
2	2	.10	.06	67.2
3	3	.12	.06	67.2
4	4	.13	.06	67.2
5	5	.15	.06	67.2
6	6	.16	.06	67.2
7	7	.18	.06	67.2
8	8	.19	.06	67.2
9	9	.21	.06	67.2
10	10	.22	.06	67.2
11	11	.24	.06	67.2
12	12	.25	.06	67.2
13	13	.27	.06	67.2
14	14	.28	.06	67.2
15	15	.30	.06	67.2
16	16	.31	.06	67.2
17	17	.33	.06	67.2



NORMALIZED VELOCITY PROFILE B43103 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)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.22	.08	3.5
2	75	.33	.08	3.5
3	100	.33	.08	3.5
4	125	.33	.08	3.5
5	150	.33	.08	3.5
6	175	.33	.08	3.5
7	200	.33	.08	3.5
8	225	.33	.08	3.5
9	250	.33	.08	3.5
10	275	.33	.08	3.5
11	300	.33	.08	3.5
12	325	.33	.08	3.5
13	350	.33	.08	3.5
14	375	.33	.08	3.5
15	400	.33	.08	3.5
16	425	.33	.08	3.5
17	450	.33	.08	3.5

NORMALIZED VELOCITY PROFILE B43113 REF. VEL. 30.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.19	.09	47.0
2	75	.21	.09	44.2
3	100	.23	.09	41.4
4	125	.25	.10	40.2
5	150	.28	.11	39.0
6	175	.29	.12	39.4
7	200	.32	.12	37.1
8	225	.35	.14	38.9
9	250	.38	.14	38.6
10	275	.44	.15	34.2
11	300	.50	.16	31.1
12	325	.58	.17	25.5
13	350	.65	.18	21.5
14	375	.76	.19	14.4
15	400	.82	.20	9.1
16	425	.89	.21	6.5
17	450	.89	.21	6.5

NORMALIZED VELOCITY PROFILE B43123 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)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.22	.09	4.5
2	75	.33	.09	4.0
3	100	.33	.09	4.0
4	125	.33	.09	4.0
5	150	.33	.09	4.0
6	175	.33	.09	4.0
7	200	.33	.09	4.0
8	225	.33	.09	4.0
9	250	.33	.09	4.0
10	275	.33	.09	4.0
11	300	.33	.09	4.0
12	325	.33	.09	4.0
13	350	.33	.09	4.0
14	375	.33	.09	4.0
15	400	.33	.09	4.0
16	425	.33	.09	4.0
17	450	.33	.09	4.0

NORMALIZED VELOCITY PROFILE B43133 REF. VEL. 30.8 FPS

TEST ZONE = B WIND DIRECTION = NNE  
 TIME OF DAY = NOON POSITION OF PROFILE = 3  
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.22	.09	37.5
2	75	.23	.09	35.5
3	100	.25	.10	34.5
4	125	.28	.11	33.5
5	150	.33	.11	33.5
6	175	.35	.12	34.4
7	200	.38	.12	34.4
8	225	.45	.14	30.0
9	250	.50	.15	27.0
10	275	.58	.16	21.5
11	300	.65	.17	15.5
12	325	.76	.18	10.0
13	350	.82	.19	6.9
14	375	.84	.20	6.9
15	400	.84	.20	6.9
16	425	.87	.21	6.9
17	450	.87	.21	6.9

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.28	.09	33.7
2	55	.29	.09	32.4
3	60	.31	.10	31.4
4	65	.31	.10	31.1
5	70	.32	.11	30.8
6	75	.33	.11	30.5
7	80	.34	.11	30.2
8	85	.35	.11	29.9
9	90	.36	.11	29.6
10	95	.37	.11	29.3
11	100	.38	.11	29.0
12	105	.39	.11	28.7
13	110	.40	.11	28.4
14	115	.41	.11	28.1
15	120	.42	.11	27.8
16	125	.43	.11	27.5
17	130	.44	.11	27.2

NORMALIZED VELOCITY PROFILE B43114 REF. VEL. 30.9 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.31	.11	33.4
2	55	.31	.11	32.1
3	60	.32	.10	31.1
4	65	.32	.11	30.1
5	70	.33	.11	29.1
6	75	.34	.11	28.1
7	80	.35	.11	27.1
8	85	.36	.11	26.1
9	90	.37	.11	25.1
10	95	.38	.11	24.1
11	100	.39	.11	23.1
12	105	.40	.11	22.1
13	110	.41	.11	21.1
14	115	.42	.11	20.1
15	120	.43	.11	19.1
16	125	.44	.11	18.1
17	130	.45	.11	17.1

NORMALIZED VELOCITY PROFILE B43124 REF. VEL. 30.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.31	.10	31.7
2	55	.32	.10	30.9
3	60	.33	.10	30.0
4	65	.33	.10	29.1
5	70	.34	.11	28.2
6	75	.35	.11	27.3
7	80	.36	.11	26.4
8	85	.37	.11	25.5
9	90	.38	.11	24.6
10	95	.39	.11	23.7
11	100	.40	.11	22.8
12	105	.41	.11	21.9
13	110	.42	.11	21.0
14	115	.43	.11	20.1
15	120	.44	.11	19.2
16	125	.45	.11	18.3
17	130	.46	.11	17.4

NORMALIZED VELOCITY PROFILE B43134 REF. VEL. 30.8 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.31	.10	31.5
2	55	.32	.11	30.5
3	60	.33	.10	29.5
4	65	.34	.10	28.5
5	70	.35	.11	27.5
6	75	.36	.11	26.5
7	80	.37	.11	25.5
8	85	.38	.11	24.5
9	90	.39	.11	23.5
10	95	.40	.11	22.5
11	100	.41	.11	21.5
12	105	.42	.11	20.5
13	110	.43	.11	19.5
14	115	.44	.11	18.5
15	120	.45	.11	17.5
16	125	.46	.11	16.5
17	130	.47	.11	15.5

NORMALIZED VELOCITY PROFILE B43105 REF. VEL. 31.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.0	.27	.09	34.9
2	10.0	.32	.10	33.9
3	15.0	.37	.11	33.6
4	20.0	.41	.11	33.3
5	25.0	.45	.12	33.0
6	30.0	.49	.13	32.7
7	35.0	.53	.14	32.4
8	40.0	.57	.14	32.1
9	45.0	.61	.15	31.8
10	50.0	.65	.16	31.5
11	55.0	.69	.16	31.2
12	60.0	.73	.17	30.9
13	65.0	.77	.17	30.6
14	70.0	.81	.18	30.3
15	75.0	.85	.18	30.0
16	80.0	.89	.19	29.7
17	85.0	.93	.19	29.4

NORMALIZED VELOCITY PROFILE B43115 REF. VEL. 31.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.0	.26	.09	35.0
2	10.0	.30	.10	34.7
3	15.0	.34	.10	34.4
4	20.0	.38	.11	34.1
5	25.0	.42	.12	33.8
6	30.0	.46	.13	33.5
7	35.0	.50	.14	33.2
8	40.0	.54	.14	32.9
9	45.0	.58	.15	32.6
10	50.0	.62	.16	32.3
11	55.0	.66	.16	32.0
12	60.0	.70	.17	31.7
13	65.0	.74	.17	31.4
14	70.0	.78	.18	31.1
15	75.0	.82	.18	30.8
16	80.0	.86	.19	30.5
17	85.0	.90	.19	30.2

NORMALIZED VELOCITY PROFILE B43125 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.0	.28	.09	34.3
2	10.0	.33	.10	34.0
3	15.0	.38	.11	33.7
4	20.0	.43	.11	33.4
5	25.0	.48	.12	33.1
6	30.0	.53	.13	32.8
7	35.0	.58	.14	32.5
8	40.0	.63	.14	32.2
9	45.0	.68	.15	31.9
10	50.0	.73	.16	31.6
11	55.0	.78	.16	31.3
12	60.0	.83	.17	31.0
13	65.0	.88	.17	30.7
14	70.0	.93	.18	30.4
15	75.0	.98	.18	30.1
16	80.0	1.03	.19	29.8
17	85.0	1.08	.19	29.5

NORMALIZED VELOCITY PROFILE B43135 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.0	.26	.09	34.4
2	10.0	.30	.10	34.1
3	15.0	.34	.10	33.8
4	20.0	.38	.11	33.5
5	25.0	.42	.12	33.2
6	30.0	.46	.13	32.9
7	35.0	.50	.14	32.6
8	40.0	.54	.14	32.3
9	45.0	.58	.15	32.0
10	50.0	.62	.16	31.7
11	55.0	.66	.16	31.4
12	60.0	.70	.17	31.1
13	65.0	.74	.17	30.8
14	70.0	.78	.18	30.5
15	75.0	.82	.18	30.2
16	80.0	.86	.19	29.9
17	85.0	.90	.19	29.6

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 <sub>MEAN</sub> (U/UREF)	U <sub> RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.09	21.1
2	70	.44	.10	20.0
3	91	.43	.10	20.0
4	111	.43	.10	18.0
5	131	.43	.09	16.0
6	151	.43	.09	16.0
7	171	.43	.09	14.0
8	191	.43	.09	14.0
9	211	.43	.09	13.0
10	231	.43	.09	12.0
11	251	.43	.09	11.0
12	271	.43	.09	11.0
13	291	.43	.09	10.0
14	311	.43	.09	10.0
15	331	.43	.09	10.0
16	351	.43	.09	10.0
17	371	.43	.09	10.0

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 <sub>MEAN</sub> (U/UREF)	U <sub> RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	15.8
2	70	.44	.07	15.8
3	91	.43	.07	15.8
4	111	.43	.07	16.0
5	131	.43	.08	18.0
6	151	.43	.09	20.0
7	171	.43	.09	18.0
8	191	.43	.09	18.0
9	211	.43	.11	19.0
10	231	.43	.11	18.0
11	251	.43	.10	16.0
12	271	.43	.11	14.0
13	291	.43	.10	12.0
14	311	.43	.08	10.0
15	331	.43	.08	10.0
16	351	.43	.07	9.0
17	371	.43	.06	8.0

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 <sub>MEAN</sub> (U/UREF)	U <sub> RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	17.3
2	70	.44	.07	17.0
3	91	.43	.07	15.8
4	111	.43	.08	17.6
5	131	.43	.09	18.8
6	151	.43	.09	18.6
7	171	.43	.10	19.7
8	191	.43	.10	18.6
9	211	.43	.11	18.1
10	231	.43	.11	17.1
11	251	.43	.11	17.5
12	271	.43	.12	16.8
13	291	.43	.10	12.6
14	311	.43	.09	10.8
15	331	.43	.07	8.4
16	351	.43	.07	8.1
17	371	.43	.07	8.1

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 <sub>MEAN</sub> (U/UREF)	U <sub> RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.41	.08	19.4
2	70	.41	.08	19.6
3	91	.43	.08	18.7
4	111	.44	.10	21.4
5	131	.46	.10	21.0
6	151	.48	.10	20.9
7	171	.48	.09	18.8
8	191	.51	.09	18.6
9	211	.54	.10	18.4
10	231	.56	.10	17.2
11	251	.60	.10	17.6
12	271	.63	.12	18.2
13	291	.66	.11	16.5
14	311	.72	.11	14.8
15	331	.77	.10	12.7
16	351	.84	.07	8.8
17	371	.86	.06	7.0

NORMALIZED VELOCITY PROFILE B52105 REF. VEL. 20.0 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	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 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	1
2	.75	.44	.09	1
3	1.00	.44	.09	1
4	1.25	.44	.09	1
5	1.50	.44	.09	1
6	1.75	.44	.09	1
7	2.00	.44	.09	1
8	2.25	.44	.09	1
9	2.50	.44	.09	1
10	2.75	.44	.09	1
11	3.00	.44	.09	1
12	3.25	.44	.09	1
13	3.50	.44	.09	1
14	3.75	.44	.09	1
15	4.00	.44	.09	1
16	4.25	.44	.09	1
17	4.50	.44	.09	1
18	4.75	.44	.09	1
19	5.00	.44	.09	1
20	5.25	.44	.09	1
21	5.50	.44	.09	1
22	5.75	.44	.09	1
23	6.00	.44	.09	1
24	6.25	.44	.09	1
25	6.50	.44	.09	1
26	6.75	.44	.09	1
27	7.00	.44	.09	1
28	7.25	.44	.09	1
29	7.50	.44	.09	1
30	7.75	.44	.09	1
31	8.00	.44	.09	1
32	8.25	.44	.09	1
33	8.50	.44	.09	1
34	8.75	.44	.09	1
35	9.00	.44	.09	1
36	9.25	.44	.09	1
37	9.50	.44	.09	1
38	9.75	.44	.09	1
39	10.00	.44	.09	1
40	10.25	.44	.09	1
41	10.50	.44	.09	1
42	10.75	.44	.09	1
43	11.00	.44	.09	1
44	11.25	.44	.09	1
45	11.50	.44	.09	1
46	11.75	.44	.09	1
47	12.00	.44	.09	1
48	12.25	.44	.09	1
49	12.50	.44	.09	1
50	12.75	.44	.09	1
51	13.00	.44	.09	1
52	13.25	.44	.09	1
53	13.50	.44	.09	1
54	13.75	.44	.09	1
55	14.00	.44	.09	1
56	14.25	.44	.09	1
57	14.50	.44	.09	1
58	14.75	.44	.09	1
59	15.00	.44	.09	1
60	15.25	.44	.09	1
61	15.50	.44	.09	1
62	15.75	.44	.09	1
63	16.00	.44	.09	1
64	16.25	.44	.09	1
65	16.50	.44	.09	1
66	16.75	.44	.09	1
67	17.00	.44	.09	1
68	17.25	.44	.09	1
69	17.50	.44	.09	1
70	17.75	.44	.09	1
71	18.00	.44	.09	1
72	18.25	.44	.09	1
73	18.50	.44	.09	1
74	18.75	.44	.09	1
75	19.00	.44	.09	1
76	19.25	.44	.09	1
77	19.50	.44	.09	1
78	19.75	.44	.09	1
79	20.00	.44	.09	1
80	20.25	.44	.09	1
81	20.50	.44	.09	1
82	20.75	.44	.09	1
83	21.00	.44	.09	1
84	21.25	.44	.09	1
85	21.50	.44	.09	1
86	21.75	.44	.09	1
87	22.00	.44	.09	1
88	22.25	.44	.09	1
89	22.50	.44	.09	1
90	22.75	.44	.09	1
91	23.00	.44	.09	1
92	23.25	.44	.09	1
93	23.50	.44	.09	1
94	23.75	.44	.09	1
95	24.00	.44	.09	1
96	24.25	.44	.09	1
97	24.50	.44	.09	1
98	24.75	.44	.09	1
99	25.00	.44	.09	1
100	25.25	.44	.09	1
101	25.50	.44	.09	1
102	25.75	.44	.09	1
103	26.00	.44	.09	1
104	26.25	.44	.09	1
105	26.50	.44	.09	1
106	26.75	.44	.09	1
107	27.00	.44	.09	1
108	27.25	.44	.09	1
109	27.50	.44	.09	1
110	27.75	.44	.09	1
111	28.00	.44	.09	1
112	28.25	.44	.09	1
113	28.50	.44	.09	1
114	28.75	.44	.09	1
115	29.00	.44	.09	1
116	29.25	.44	.09	1
117	29.50	.44	.09	1
118	29.75	.44	.09	1
119	30.00	.44	.09	1
120	30.25	.44	.09	1
121	30.50	.44	.09	1
122	30.75	.44	.09	1
123	31.00	.44	.09	1
124	31.25	.44	.09	1
125	31.50	.44	.09	1
126	31.75	.44	.09	1
127	32.00	.44	.09	1
128	32.25	.44	.09	1
129	32.50	.44	.09	1
130	32.75	.44	.09	1
131	33.00	.44	.09	1
132	33.25	.44	.09	1
133	33.50	.44	.09	1
134	33.75	.44	.09	1
135	34.00	.44	.09	1
136	34.25	.44	.09	1
137	34.50	.44	.09	1
138	34.75	.44	.09	1
139	35.00	.44	.09	1
140	35.25	.44	.09	1
141	35.50	.44	.09	1
142	35.75	.44	.09	1
143	36.00	.44	.09	1
144	36.25	.44	.09	1
145	36.50	.44	.09	1
146	36.75	.44	.09	1
147	37.00	.44	.09	1
148	37.25	.44	.09	1
149	37.50	.44	.09	1
150	37.75	.44	.09	1
151	38.00	.44	.09	1
152	38.25	.44	.09	1
153	38.50	.44	.09	1
154	38.75	.44	.09	1
155	39.00	.44	.09	1
156	39.25	.44	.09	1
157	39.50	.44	.09	1
158	39.75	.44	.09	1
159	40.00	.44	.09	1
160	40.25	.44	.09	1
161	40.50	.44	.09	1
162	40.75	.44	.09	1
163	41.00	.44	.09	1
164	41.25	.44	.09	1
165	41.50	.44	.09	1
166	41.75	.44	.09	1
167	42.00	.44	.09	1
168	42.25	.44	.09	1
169	42.50	.44	.09	1
170	42.75	.44	.09	1
171	43.00	.44	.09	1
172	43.25	.44	.09	1
173	43.50	.44	.09	1
174	43.75	.44	.09	1
175	44.00	.44	.09	1
176	44.25	.44	.09	1
177	44.50	.44	.09	1
178	44.75	.44	.09	1
179	45.00	.44	.09	1
180	45.25	.44	.09	1
181	45.50	.44	.09	1
182	45.75	.44	.09	1
183	46.00	.44	.09	1
184	46.25	.44	.09	1
185	46.50	.44	.09	1
186	46.75	.44	.09	1
187	47.00	.44	.09	1
188	47.25	.44	.09	1
189	47.50	.44	.09	1
190	47.75	.44	.09	1
191	48.00	.44	.09	1
192	48.25	.44	.09	1
193	48.50	.44	.09	1
194	48.75	.44	.09	1
195	49.00	.44	.09	1
196	49.25	.44	.09	1
197	49.50	.44	.09	1
198	49.75	.44	.09	1
199	50.00	.44	.09	1
200	50.25	.44	.09	1
201	50.50	.44	.09	1
202	50.75	.44	.09	1
203	51.00	.44	.09	1
204	51.25	.44	.09	1
205	51.50	.44	.09	1
206	51.75	.44	.09	1
207	52.00	.44	.09	1
208	52.25	.44	.09	1
209	52.50	.44	.09	1
210	52.75	.44	.09	1
211	53.00	.44	.09	1
212	53.25	.44	.09	1
213	53.50	.44	.09	1
214	53.75	.44	.09	1
215	54.00	.44	.09	1
216	54.25	.44	.09	1
217	54.50	.44	.09	1
218	54.75	.44	.09	1
219	55.00	.44	.09	1
220	55.25	.44	.09	1
221	55.50	.44	.09	1
222	55.75	.44	.09	1
223	56.00	.44	.09	1
224	56.25	.44	.09	1
225	56.50	.44	.09	1
226	56.75	.44	.09	1
227	57.00	.44	.09	1
228	57.25	.44	.09	1
229	57.50	.44	.09	1
230	57.75	.44	.09	1
231	58.00	.44	.09	1
232	58.25	.44	.09	1
233	58.50	.44	.09	1
234	58.75	.44	.09	1
235	59.00	.44	.09	1
236	59.25	.44	.09	1
237	59.50	.44	.09	1
238	59.75	.44	.09	1
239	60.00	.44	.09	1
240	60.25	.44	.09	1
241	60.50	.44	.09	1
242	60.75	.44	.09	1
243	61.00	.44	.09	1
244	61.25	.44	.09	1
245	61.50	.44	.09	1
246	61.75	.44	.09	1
247	62.00	.44	.09	1
248	62.25	.44	.09	1
249	62.50	.44	.09	1
250	62.75	.44	.09	1
251	63.00	.44	.09	1
252	63.25	.44	.09	1
253	63.50	.44	.09	1
254	63.75	.44	.09	1
255	64.00	.44	.09	1
256	64.25	.44	.09	1
257	64.50	.44	.09	1
258	64.75	.44	.09	1
259	65.00	.44	.09	1
260	65.25	.44	.09	1
261	65.50	.44	.09	1
262	65.75	.44	.09	1
263	66.00	.44	.09	1
264	66.25	.44	.09	1
265	66.50	.44	.09	1
266	66.75	.44	.09	1
267	67.00	.44	.09	1
268	67.25	.44	.09	1
269	67.50	.44	.09	1
270	67.75	.44	.09	1
271	68.00	.44	.09	1
272	68.25	.44	.09	1
273	68.50	.44	.09	1
274	68.75	.44	.09	1
275	69.00	.44	.09	1
276	69.25	.44	.09	1
277	69.50	.44	.09	1
278	69.75	.44	.09	1
279	70.00	.44	.09	1
280	70.25	.44	.09	1
281	70.50	.44	.09	1
282	70.75	.44	.09	1
283	71.00	.44	.09	1
284	71.25	.44	.09	1
285	71.50	.44	.09	1
286	71.75	.44	.09</	



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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1	.43	.07	11.5
2	2	.45	.07	11.5
3	3	.46	.07	11.5
4	4	.44	.08	11.5
5	5	.44	.08	11.5
6	6	.44	.08	11.5
7	7	.44	.08	11.5
8	8	.44	.08	11.5
9	9	.44	.08	11.5
10	10	.44	.08	11.5
11	11	.44	.08	11.5
12	12	.44	.08	11.5
13	13	.44	.08	11.5
14	14	.44	.08	11.5
15	15	.44	.08	11.5
16	16	.44	.08	11.5
17	17	.44	.08	11.5

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1	.41	.08	11.9
2	2	.42	.08	11.9
3	3	.43	.08	11.9
4	4	.43	.08	11.9
5	5	.44	.08	11.9
6	6	.44	.08	11.9
7	7	.44	.08	11.9
8	8	.44	.08	11.9
9	9	.44	.08	11.9
10	10	.44	.08	11.9
11	11	.44	.08	11.9
12	12	.44	.08	11.9
13	13	.44	.08	11.9
14	14	.44	.08	11.9
15	15	.44	.08	11.9
16	16	.44	.08	11.9
17	17	.44	.08	11.9

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1	.41	.08	11.9
2	2	.42	.08	11.9
3	3	.43	.08	11.9
4	4	.43	.08	11.9
5	5	.44	.08	11.9
6	6	.44	.08	11.9
7	7	.44	.08	11.9
8	8	.44	.08	11.9
9	9	.44	.08	11.9
10	10	.44	.08	11.9
11	11	.44	.08	11.9
12	12	.44	.08	11.9
13	13	.44	.08	11.9
14	14	.44	.08	11.9
15	15	.44	.08	11.9
16	16	.44	.08	11.9
17	17	.44	.08	11.9

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 82FT

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1	.41	.08	11.9
2	2	.41	.08	11.9
3	3	.42	.08	11.9
4	4	.43	.08	11.9
5	5	.43	.08	11.9
6	6	.44	.08	11.9
7	7	.44	.08	11.9
8	8	.44	.08	11.9
9	9	.44	.08	11.9
10	10	.44	.08	11.9
11	11	.44	.08	11.9
12	12	.44	.08	11.9
13	13	.44	.08	11.9
14	14	.44	.08	11.9
15	15	.44	.08	11.9
16	16	.44	.08	11.9
17	17	.44	.08	11.9

NORMALIZED VELOCITY PROFILE B53103 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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.42	.09	17.4
2	45	.45	.09	17.4
3	40	.48	.08	17.4
4	35	.51	.08	17.4
5	30	.54	.09	18.7
6	25	.57	.09	18.7
7	20	.60	.10	18.7
8	15	.63	.10	19.9
9	10	.66	.11	19.9
10	5	.69	.11	19.9
11	0	.72	.11	19.9
12	0	.75	.12	19.9
13	0	.78	.11	19.9
14	0	.81	.10	19.9
15	0	.84	.08	10.0
16	0	.87	.07	7.4
17	0	.90	.07	7.4

NORMALIZED VELOCITY PROFILE B53113 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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.42	.09	20.6
2	45	.45	.09	20.6
3	40	.48	.10	20.6
4	35	.51	.10	20.6
5	30	.54	.10	20.6
6	25	.57	.10	20.6
7	20	.60	.11	20.6
8	15	.63	.11	20.6
9	10	.66	.11	20.6
10	5	.69	.11	20.6
11	0	.72	.11	20.6
12	0	.75	.11	20.6
13	0	.78	.11	20.6
14	0	.81	.11	20.6
15	0	.84	.10	20.6
16	0	.87	.08	11.8
17	0	.90	.07	7.3

NORMALIZED VELOCITY PROFILE B53123 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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	20.4
2	45	.47	.09	20.4
3	40	.50	.09	20.4
4	35	.53	.09	20.4
5	30	.56	.09	20.4
6	25	.59	.10	20.4
7	20	.62	.10	20.4
8	15	.65	.10	20.4
9	10	.68	.11	20.4
10	5	.71	.11	20.4
11	0	.74	.11	20.4
12	0	.77	.11	20.4
13	0	.80	.11	20.4
14	0	.83	.11	20.4
15	0	.86	.10	20.4
16	0	.89	.09	10.0
17	0	.92	.07	7.4

NORMALIZED VELOCITY PROFILE B53133 REF. VEL. 30.5 FPS

TEST ZONE = B WIND DIRECTION = NE  
 TIME OF DAY = NOON POSITION OF PROFILE = 3  
 FENCE CONFIGURATION = 15FT AT 82FT

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.09	20.4
2	45	.47	.09	20.4
3	40	.50	.09	20.4
4	35	.53	.09	20.4
5	30	.56	.09	20.4
6	25	.59	.10	20.4
7	20	.62	.10	20.4
8	15	.65	.10	20.4
9	10	.68	.11	20.4
10	5	.71	.11	20.4
11	0	.74	.11	20.4
12	0	.77	.11	20.4
13	0	.80	.11	20.4
14	0	.83	.11	20.4
15	0	.86	.10	20.4
16	0	.89	.09	10.0
17	0	.92	.07	7.4

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.42	.08	.09
2	44	.44	.08	.09
3	43	.44	.08	.09
4	41	.44	.08	.09
5	40	.44	.08	.09
6	39	.44	.08	.09
7	38	.44	.08	.09
8	37	.44	.08	.09
9	36	.44	.08	.09
10	35	.44	.08	.09
11	34	.44	.08	.09
12	33	.44	.08	.09
13	32	.44	.08	.09
14	31	.44	.08	.09
15	30	.44	.08	.09
16	29	.44	.08	.09
17	28	.44	.08	.09
18	27	.44	.08	.09
19	26	.44	.08	.09
20	25	.44	.08	.09
21	24	.44	.08	.09
22	23	.44	.08	.09
23	22	.44	.08	.09
24	21	.44	.08	.09
25	20	.44	.08	.09
26	19	.44	.08	.09
27	18	.44	.08	.09
28	17	.44	.08	.09
29	16	.44	.08	.09
30	15	.44	.08	.09
31	14	.44	.08	.09
32	13	.44	.08	.09
33	12	.44	.08	.09
34	11	.44	.08	.09
35	10	.44	.08	.09
36	9	.44	.08	.09
37	8	.44	.08	.09
38	7	.44	.08	.09
39	6	.44	.08	.09
40	5	.44	.08	.09
41	4	.44	.08	.09
42	3	.44	.08	.09
43	2	.44	.08	.09
44	1	.44	.08	.09

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	.09
2	44	.44	.07	.09
3	43	.45	.07	.09
4	41	.47	.08	.09
5	40	.47	.08	.09
6	39	.49	.09	.09
7	38	.51	.09	.09
8	37	.53	.09	.09
9	36	.53	.09	.09
10	35	.56	.10	.09
11	34	.60	.11	.09
12	33	.63	.11	.09
13	32	.69	.11	.09
14	31	.74	.11	.09
15	30	.79	.11	.09
16	29	.86	.11	.09
17	28	.91	.11	.09
18	27	.97	.11	.09
19	26	1.03	.11	.09
20	25	1.09	.11	.09
21	24	1.15	.11	.09
22	23	1.21	.11	.09
23	22	1.27	.11	.09
24	21	1.33	.11	.09
25	20	1.39	.11	.09
26	19	1.45	.11	.09
27	18	1.51	.11	.09
28	17	1.57	.11	.09
29	16	1.63	.11	.09
30	15	1.69	.11	.09
31	14	1.75	.11	.09
32	13	1.81	.11	.09
33	12	1.87	.11	.09
34	11	1.93	.11	.09
35	10	1.99	.11	.09
36	9	2.05	.11	.09
37	8	2.11	.11	.09
38	7	2.17	.11	.09
39	6	2.23	.11	.09
40	5	2.29	.11	.09
41	4	2.35	.11	.09
42	3	2.41	.11	.09
43	2	2.47	.11	.09
44	1	2.53	.11	.09

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.44	.08	.11
2	44	.44	.08	.11
3	43	.44	.08	.11
4	41	.44	.08	.11
5	40	.44	.08	.11
6	39	.44	.08	.11
7	38	.44	.08	.11
8	37	.44	.08	.11
9	36	.44	.08	.11
10	35	.44	.08	.11
11	34	.44	.08	.11
12	33	.44	.08	.11
13	32	.44	.08	.11
14	31	.44	.08	.11
15	30	.44	.08	.11
16	29	.44	.08	.11
17	28	.44	.08	.11
18	27	.44	.08	.11
19	26	.44	.08	.11
20	25	.44	.08	.11
21	24	.44	.08	.11
22	23	.44	.08	.11
23	22	.44	.08	.11
24	21	.44	.08	.11
25	20	.44	.08	.11
26	19	.44	.08	.11
27	18	.44	.08	.11
28	17	.44	.08	.11
29	16	.44	.08	.11
30	15	.44	.08	.11
31	14	.44	.08	.11
32	13	.44	.08	.11
33	12	.44	.08	.11
34	11	.44	.08	.11
35	10	.44	.08	.11
36	9	.44	.08	.11
37	8	.44	.08	.11
38	7	.44	.08	.11
39	6	.44	.08	.11
40	5	.44	.08	.11
41	4	.44	.08	.11
42	3	.44	.08	.11
43	2	.44	.08	.11
44	1	.44	.08	.11

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 82FT

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.08	.11
2	44	.43	.08	.11
3	43	.43	.08	.11
4	41	.43	.08	.11
5	40	.43	.08	.11
6	39	.43	.08	.11
7	38	.43	.08	.11
8	37	.43	.08	.11
9	36	.43	.08	.11
10	35	.43	.08	.11
11	34	.43	.08	.11
12	33	.43	.08	.11
13	32	.43	.08	.11
14	31	.43	.08	.11
15	30	.43	.08	.11
16	29	.43	.08	.11
17	28	.43	.08	.11
18	27	.43	.08	.11
19	26	.43	.08	.11
20	25	.43	.08	.11
21	24	.43	.08	.11
22	23	.43	.08	.11
23	22	.43	.08	.11
24	21	.43	.08	.11
25	20	.43	.08	.11
26	19	.43	.08	.11
27	18	.43	.08	.11
28	17	.43	.08	.11
29	16	.43	.08	.11
30	15	.43	.08	.11
31	14	.43	.08	.11
32	13	.43	.08	.11
33	12	.43	.08	.11
34	11	.43	.08	.11
35	10	.43	.08	.11
36	9	.43	.08	.11
37	8	.43	.08	.11
38	7	.43	.08	.11
39	6	.43	.08	.11
40	5	.43	.08	.11
41	4	.43	.08	.11
42	3	.43	.08	.11
43	2	.43	.08	.11
44	1	.43	.08	.11

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.43	.07	19.1
2	44	.41	.08	19.9
3	44	.41	.08	20.0
4	44	.41	.08	21.7
5	44	.41	.08	22.9
6	44	.41	.08	23.9
7	44	.41	.08	25.0
8	44	.41	.08	26.0
9	44	.41	.08	27.0
10	44	.41	.08	28.0
11	44	.41	.08	29.0
12	44	.41	.08	30.0
13	44	.41	.08	31.0
14	44	.41	.08	32.0
15	44	.41	.08	33.0
16	44	.41	.08	34.0
17	44	.41	.08	35.0

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.07	17.7
2	44	.42	.08	17.7
3	44	.42	.08	17.7
4	44	.42	.08	17.7
5	44	.42	.08	17.7
6	44	.42	.08	17.7
7	44	.42	.08	17.7
8	44	.42	.08	17.7
9	44	.42	.08	17.7
10	44	.42	.08	17.7
11	44	.42	.08	17.7
12	44	.42	.08	17.7
13	44	.42	.08	17.7
14	44	.42	.08	17.7
15	44	.42	.08	17.7
16	44	.42	.08	17.7
17	44	.42	.08	17.7

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.42	.07	17.2
2	44	.41	.07	16.1
3	44	.41	.07	15.9
4	44	.41	.08	16.8
5	44	.41	.08	16.1
6	44	.41	.08	17.1
7	44	.41	.08	16.6
8	44	.41	.08	17.7
9	44	.41	.08	17.7
10	44	.41	.08	16.9
11	44	.41	.08	16.9
12	44	.41	.08	16.9
13	44	.41	.08	16.9
14	44	.41	.08	16.9
15	44	.41	.08	16.9
16	44	.41	.08	16.9
17	44	.41	.08	16.9

NORMALIZED VELOCITY PROFILE B53135 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NE  
 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	50	.42	.07	17.7
2	44	.42	.07	17.0
3	44	.42	.07	16.4
4	44	.42	.08	16.4
5	44	.42	.08	16.4
6	44	.42	.08	16.4
7	44	.42	.08	16.4
8	44	.42	.08	16.4
9	44	.42	.08	16.4
10	44	.42	.08	16.4
11	44	.42	.08	16.4
12	44	.42	.08	16.4
13	44	.42	.08	16.4
14	44	.42	.08	16.4
15	44	.42	.08	16.4
16	44	.42	.08	16.4
17	44	.42	.08	16.4

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 MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	1	.13	.07	.00
2	2	.14	.07	.00
3	3	.15	.07	.00
4	4	.16	.07	.00
5	5	.17	.07	.00
6	6	.18	.07	.00
7	7	.19	.07	.00
8	8	.20	.07	.00
9	9	.21	.07	.00
10	10	.22	.07	.00
11	11	.23	.07	.00
12	12	.24	.07	.00
13	13	.25	.07	.00
14	14	.26	.07	.00
15	15	.27	.07	.00
16	16	.28	.07	.00
17	17	.29	.07	.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 MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	1	.09	.05	.00
2	2	.10	.05	.00
3	3	.11	.05	.00
4	4	.12	.05	.00
5	5	.13	.05	.00
6	6	.14	.05	.00
7	7	.15	.05	.00
8	8	.16	.05	.00
9	9	.17	.05	.00
10	10	.18	.05	.00
11	11	.19	.05	.00
12	12	.20	.05	.00
13	13	.21	.05	.00
14	14	.22	.05	.00
15	15	.23	.05	.00
16	16	.24	.05	.00
17	17	.25	.05	.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 MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	1	.33	.12	.00
2	2	.40	.12	.00
3	3	.44	.12	.00
4	4	.47	.12	.00
5	5	.49	.12	.00
6	6	.51	.12	.00
7	7	.52	.12	.00
8	8	.53	.12	.00
9	9	.54	.12	.00
10	10	.55	.12	.00
11	11	.56	.12	.00
12	12	.57	.12	.00
13	13	.58	.12	.00
14	14	.59	.12	.00
15	15	.60	.12	.00
16	16	.61	.12	.00
17	17	.62	.12	.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 MEAN (U/UREF)	U RMS (U/UREF)	TURB INT (PERCENT)
1	1	.36	.10	.00
2	2	.38	.10	.00
3	3	.40	.10	.00
4	4	.42	.10	.00
5	5	.44	.10	.00
6	6	.46	.10	.00
7	7	.47	.10	.00
8	8	.48	.10	.00
9	9	.49	.10	.00
10	10	.50	.10	.00
11	11	.51	.10	.00
12	12	.52	.10	.00
13	13	.53	.10	.00
14	14	.54	.10	.00
15	15	.55	.10	.00
16	16	.56	.10	.00
17	17	.57	.10	.00

NORMALIZED VELOCITY PROFILE B13225 REF. VEL. 32.7 FPS

TEST ZONE = B 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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.44	.10	21
2	45	.43	.10	21
3	40	.42	.10	21
4	35	.41	.10	21
5	30	.40	.10	21
6	25	.39	.10	21
7	20	.38	.10	21
8	15	.37	.10	21
9	10	.36	.10	21
10	5	.35	.10	21
11	0	.34	.10	21
12	0	.33	.10	21
13	0	.32	.10	21
14	0	.31	.10	21
15	0	.30	.10	21
16	0	.29	.10	21
17	0	.28	.10	21
18	0	.27	.10	21
19	0	.26	.10	21
20	0	.25	.10	21
21	0	.24	.10	21
22	0	.23	.10	21
23	0	.22	.10	21
24	0	.21	.10	21
25	0	.20	.10	21
26	0	.19	.10	21
27	0	.18	.10	21
28	0	.17	.10	21
29	0	.16	.10	21
30	0	.15	.10	21
31	0	.14	.10	21
32	0	.13	.10	21
33	0	.12	.10	21
34	0	.11	.10	21
35	0	.10	.10	21
36	0	.09	.10	21
37	0	.08	.10	21
38	0	.07	.10	21
39	0	.06	.10	21
40	0	.05	.10	21
41	0	.04	.10	21
42	0	.03	.10	21
43	0	.02	.10	21
44	0	.01	.10	21
45	0	.00	.10	21
46	0	.00	.10	21
47	0	.00	.10	21
48	0	.00	.10	21
49	0	.00	.10	21
50	0	.00	.10	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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.46	.12	26
2	45	.45	.12	26
3	40	.44	.12	26
4	35	.43	.12	26
5	30	.42	.12	26
6	25	.41	.12	26
7	20	.40	.12	26
8	15	.39	.12	26
9	10	.38	.12	26
10	5	.37	.12	26
11	0	.36	.12	26
12	0	.35	.12	26
13	0	.34	.12	26
14	0	.33	.12	26
15	0	.32	.12	26
16	0	.31	.12	26
17	0	.30	.12	26
18	0	.29	.12	26
19	0	.28	.12	26
20	0	.27	.12	26
21	0	.26	.12	26
22	0	.25	.12	26
23	0	.24	.12	26
24	0	.23	.12	26
25	0	.22	.12	26
26	0	.21	.12	26
27	0	.20	.12	26
28	0	.19	.12	26
29	0	.18	.12	26
30	0	.17	.12	26
31	0	.16	.12	26
32	0	.15	.12	26
33	0	.14	.12	26
34	0	.13	.12	26
35	0	.12	.12	26
36	0	.11	.12	26
37	0	.10	.12	26
38	0	.09	.12	26
39	0	.08	.12	26
40	0	.07	.12	26
41	0	.06	.12	26
42	0	.05	.12	26
43	0	.04	.12	26
44	0	.03	.12	26
45	0	.02	.12	26
46	0	.01	.12	26
47	0	.00	.12	26
48	0	.00	.12	26
49	0	.00	.12	26
50	0	.00	.12	26

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.45	.11	21
2	45	.44	.11	21
3	40	.43	.11	21
4	35	.42	.11	21
5	30	.41	.11	21
6	25	.40	.11	21
7	20	.39	.11	21
8	15	.38	.11	21
9	10	.37	.11	21
10	5	.36	.11	21
11	0	.35	.11	21
12	0	.34	.11	21
13	0	.33	.11	21
14	0	.32	.11	21
15	0	.31	.11	21
16	0	.30	.11	21
17	0	.29	.11	21
18	0	.28	.11	21
19	0	.27	.11	21
20	0	.26	.11	21
21	0	.25	.11	21
22	0	.24	.11	21
23	0	.23	.11	21
24	0	.22	.11	21
25	0	.21	.11	21
26	0	.20	.11	21
27	0	.19	.11	21
28	0	.18	.11	21
29	0	.17	.11	21
30	0	.16	.11	21
31	0	.15	.11	21
32	0	.14	.11	21
33	0	.13	.11	21
34	0	.12	.11	21
35	0	.11	.11	21
36	0	.10	.11	21
37	0	.09	.11	21
38	0	.08	.11	21
39	0	.07	.11	21
40	0	.06	.11	21
41	0	.05	.11	21
42	0	.04	.11	21
43	0	.03	.11	21
44	0	.02	.11	21
45	0	.01	.11	21
46	0	.00	.11	21
47	0	.00	.11	21
48	0	.00	.11	21
49	0	.00	.11	21
50	0	.00	.11	21

NORMALIZED VELOCITY PROFILE B23223 REF. VEL. 32.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.49	.11	21
2	45	.48	.11	21
3	40	.47	.11	21
4	35	.46	.11	21
5	30	.45	.11	21
6	25	.44	.11	21
7	20	.43	.11	21
8	15	.42	.11	21
9	10	.41	.11	21
10	5	.40	.11	21
11	0	.39	.11	21
12	0	.38	.11	21
13	0	.37	.11	21
14	0	.36	.11	21
15	0	.35	.11	21
16	0	.34	.11	21
17	0	.33	.11	21
18	0	.32	.11	21
19	0	.31	.11	21
20	0	.30	.11	21
21	0	.29	.11	21
22	0	.28	.11	21
23	0	.27	.11	21
24	0	.26	.11	21
25	0	.25	.11	21
26	0	.24	.11	21
27	0	.23	.11	21
28	0	.22	.11	21
29	0	.21	.11	21
30	0	.20	.11	21
31	0	.19	.11	21
32	0	.18	.11	21
33	0	.17	.11	21
34	0	.16	.11	21
35	0	.15	.11	21
36	0	.14	.11	21
37	0	.13	.11	21
38	0	.12	.11	21
39	0	.11	.11	21
40	0	.10	.11	21
41	0	.09	.11	21
42	0	.08	.11	21
43	0	.07	.11	21
44	0	.06	.11	21
45	0	.05	.11	21
46	0	.04	.11	21
47	0	.03	.11	21
48	0	.02	.11	21
49	0	.01	.11	21
50	0	.00	.11	21

NORMALIZED VELOCITY PROFILE B23224 REF. VEL. 32.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.20	.05	27.9
2	55	.20	.05	27.9
3	60	.20	.05	27.9
4	65	.20	.05	27.9
5	70	.20	.05	27.9
6	75	.20	.05	27.9
7	80	.20	.05	27.9
8	85	.20	.05	27.9
9	90	.20	.05	27.9
10	95	.20	.05	27.9
11	100	.20	.05	27.9
12	105	.20	.05	27.9
13	110	.20	.05	27.9
14	115	.20	.05	27.9
15	120	.20	.05	27.9
16	125	.20	.05	27.9
17	130	.20	.05	27.9
18	135	.20	.05	27.9
19	140	.20	.05	27.9
20	145	.20	.05	27.9
21	150	.20	.05	27.9
22	155	.20	.05	27.9
23	160	.20	.05	27.9
24	165	.20	.05	27.9
25	170	.20	.05	27.9
26	175	.20	.05	27.9
27	180	.20	.05	27.9
28	185	.20	.05	27.9
29	190	.20	.05	27.9
30	195	.20	.05	27.9
31	200	.20	.05	27.9
32	205	.20	.05	27.9
33	210	.20	.05	27.9
34	215	.20	.05	27.9
35	220	.20	.05	27.9
36	225	.20	.05	27.9
37	230	.20	.05	27.9
38	235	.20	.05	27.9
39	240	.20	.05	27.9
40	245	.20	.05	27.9
41	250	.20	.05	27.9
42	255	.20	.05	27.9
43	260	.20	.05	27.9
44	265	.20	.05	27.9
45	270	.20	.05	27.9
46	275	.20	.05	27.9
47	280	.20	.05	27.9
48	285	.20	.05	27.9
49	290	.20	.05	27.9
50	295	.20	.05	27.9
51	300	.20	.05	27.9
52	305	.20	.05	27.9
53	310	.20	.05	27.9
54	315	.20	.05	27.9
55	320	.20	.05	27.9
56	325	.20	.05	27.9
57	330	.20	.05	27.9
58	335	.20	.05	27.9
59	340	.20	.05	27.9
60	345	.20	.05	27.9
61	350	.20	.05	27.9
62	355	.20	.05	27.9
63	360	.20	.05	27.9
64	365	.20	.05	27.9
65	370	.20	.05	27.9
66	375	.20	.05	27.9
67	380	.20	.05	27.9
68	385	.20	.05	27.9
69	390	.20	.05	27.9
70	395	.20	.05	27.9
71	400	.20	.05	27.9
72	405	.20	.05	27.9
73	410	.20	.05	27.9
74	415	.20	.05	27.9
75	420	.20	.05	27.9
76	425	.20	.05	27.9
77	430	.20	.05	27.9
78	435	.20	.05	27.9
79	440	.20	.05	27.9
80	445	.20	.05	27.9
81	450	.20	.05	27.9
82	455	.20	.05	27.9
83	460	.20	.05	27.9
84	465	.20	.05	27.9
85	470	.20	.05	27.9
86	475	.20	.05	27.9
87	480	.20	.05	27.9
88	485	.20	.05	27.9
89	490	.20	.05	27.9
90	495	.20	.05	27.9
91	500	.20	.05	27.9
92	505	.20	.05	27.9
93	510	.20	.05	27.9
94	515	.20	.05	27.9
95	520	.20	.05	27.9
96	525	.20	.05	27.9
97	530	.20	.05	27.9
98	535	.20	.05	27.9
99	540	.20	.05	27.9
100	545	.20	.05	27.9

NORMALIZED VELOCITY PROFILE B23225 REF. VEL. 32.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.43	.10	22.85
2	55	.41	.09	22.85
3	60	.44	.10	22.85
4	65	.44	.11	22.85
5	70	.44	.11	22.85
6	75	.44	.11	22.85
7	80	.44	.11	22.85
8	85	.44	.11	22.85
9	90	.44	.11	22.85
10	95	.44	.11	22.85
11	100	.44	.11	22.85
12	105	.44	.11	22.85
13	110	.44	.11	22.85
14	115	.44	.11	22.85
15	120	.44	.11	22.85
16	125	.44	.11	22.85
17	130	.44	.11	22.85
18	135	.44	.11	22.85
19	140	.44	.11	22.85
20	145	.44	.11	22.85
21	150	.44	.11	22.85
22	155	.44	.11	22.85
23	160	.44	.11	22.85
24	165	.44	.11	22.85
25	170	.44	.11	22.85
26	175	.44	.11	22.85
27	180	.44	.11	22.85
28	185	.44	.11	22.85
29	190	.44	.11	22.85
30	195	.44	.11	22.85
31	200	.44	.11	22.85
32	205	.44	.11	22.85
33	210	.44	.11	22.85
34	215	.44	.11	22.85
35	220	.44	.11	22.85
36	225	.44	.11	22.85
37	230	.44	.11	22.85
38	235	.44	.11	22.85
39	240	.44	.11	22.85
40	245	.44	.11	22.85
41	250	.44	.11	22.85
42	255	.44	.11	22.85
43	260	.44	.11	22.85
44	265	.44	.11	22.85
45	270	.44	.11	22.85
46	275	.44	.11	22.85
47	280	.44	.11	22.85
48	285	.44	.11	22.85
49	290	.44	.11	22.85
50	295	.44	.11	22.85
51	300	.44	.11	22.85
52	305	.44	.11	22.85
53	310	.44	.11	22.85
54	315	.44	.11	22.85
55	320	.44	.11	22.85
56	325	.44	.11	22.85
57	330	.44	.11	22.85
58	335	.44	.11	22.85
59	340	.44	.11	22.85
60	345	.44	.11	22.85
61	350	.44	.11	22.85
62	355	.44	.11	22.85
63	360	.44	.11	22.85
64	365	.44	.11	22.85
65	370	.44	.11	22.85
66	375	.44	.11	22.85
67	380	.44	.11	22.85
68	385	.44	.11	22.85
69	390	.44	.11	22.85
70	395	.44	.11	22.85
71	400	.44	.11	22.85
72	405	.44	.11	22.85
73	410	.44	.11	22.85
74	415	.44	.11	22.85
75	420	.44	.11	22.85
76	425	.44	.11	22.85
77	430	.44	.11	22.85
78	435	.44	.11	22.85
79	440	.44	.11	22.85
80	445	.44	.11	22.85
81	450	.44	.11	22.85
82	455	.44	.11	22.85
83	460	.44	.11	22.85
84	465	.44	.11	22.85
85	470	.44	.11	22.85
86	475	.44	.11	22.85
87	480	.44	.11	22.85
88	485	.44	.11	22.85
89	490	.44	.11	22.85
90	495	.44	.11	22.85
91	500	.44	.11	22.85
92	505	.44	.11	22.85
93	510	.44	.11	22.85
94	515	.44	.11	22.85
95	520	.44	.11	22.85
96	525	.44	.11	22.85
97	530	.44	.11	22.85
98	535	.44	.11	22.85
99	540	.44	.11	22.85
100	545	.44	.11	22.85

NORMALIZED VELOCITY PROFILE B33221 REF. VEL. 32.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.20	.05	27.9
2	55	.20	.05	27.9
3	60	.20	.05	27.9
4	65	.20	.05	27.9
5	70	.20	.05	27.9
6	75	.20	.05	27.9
7	80	.20	.05	27.9
8	85	.20	.05	27.9
9	90	.20	.05	27.9
10	95	.20	.05	27.9
11	100	.20	.05	27.9
12	105	.20	.05	27.9
13	110	.20	.05	27.9
14	115	.20	.05	27.9
15	120	.20	.05	27.9
16	125	.20	.05	27.9
17	130	.20	.05	27.9
18	135	.20	.05	27.9
19	140	.20	.05	27.9
20	145	.20	.05	27.9
21	150	.20	.05	27.9
22	155	.20	.05	27.9
23	160	.20	.05	27.9
24	165	.20	.05	27.9
25	170	.20	.05	27.9
26	175	.20	.05	27.9
27	180	.20	.05	27.9
28	185	.20	.05	27.9
29	190	.20	.05	27.9
30	195	.20	.05	27.9
31	200	.20	.05	27.9
32	205	.20	.05	27.9
33	210	.20	.05	27.9
34	215	.20	.05	27.9
35	220	.20	.05	27.9
36	225	.20	.05	27.9
37	230	.20	.05	27.9
38	235	.20	.05	27.9
39	240	.20	.05	27.9
40	245	.20	.05	27.9
41	250	.20	.05	27.9
42	255	.20	.05	27.9
43	260	.20	.05	27.9
44	265	.20	.05	27.9
45	270	.20	.05	27.9
46	275	.20	.05	27.9
47	280	.20	.05	27.9
48	285	.20	.05	27.9
49	290	.20	.05	27.9
50	295	.20	.05	27.9
51	300	.20	.05	27.9
52	305	.20	.05	27.9
53	310	.20	.05	27.9
54	315	.20	.05	27.9
55	320	.20	.05	27.9
56	325	.20	.05	27.9
57	330	.20	.05	27.9
58	335	.20	.05	27.9
59	340	.20	.05	27.9
60	345	.20	.05	27.9
61	350	.20	.05	27.9
62	355	.20	.05	27.9
63	360	.20	.05	27.9
64	365	.20	.05	27.9
65	370	.20	.05	27.9
66	375	.20	.05	27.9
67	380	.20	.05	27.9
68	385	.20	.05	27.9

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.4	.09	19.2
2	45	.4	.10	19.7
3	40	.4	.10	19.7
4	35	.4	.11	20.6
5	30	.4	.11	20.6
6	25	.4	.11	20.6
7	20	.4	.11	20.6
8	15	.4	.11	20.6
9	10	.4	.11	20.6
10	5	.4	.11	20.6
11	0	.4	.11	20.6
12	0	.4	.11	20.6
13	0	.4	.11	20.6
14	0	.4	.11	20.6
15	0	.4	.11	20.6
16	0	.4	.11	20.6
17	0	.4	.11	20.6
18	0	.4	.11	20.6
19	0	.4	.11	20.6
20	0	.4	.11	20.6
21	0	.4	.11	20.6
22	0	.4	.11	20.6
23	0	.4	.11	20.6
24	0	.4	.11	20.6
25	0	.4	.11	20.6
26	0	.4	.11	20.6
27	0	.4	.11	20.6
28	0	.4	.11	20.6
29	0	.4	.11	20.6
30	0	.4	.11	20.6
31	0	.4	.11	20.6
32	0	.4	.11	20.6
33	0	.4	.11	20.6
34	0	.4	.11	20.6
35	0	.4	.11	20.6
36	0	.4	.11	20.6
37	0	.4	.11	20.6
38	0	.4	.11	20.6
39	0	.4	.11	20.6
40	0	.4	.11	20.6
41	0	.4	.11	20.6
42	0	.4	.11	20.6
43	0	.4	.11	20.6
44	0	.4	.11	20.6
45	0	.4	.11	20.6
46	0	.4	.11	20.6
47	0	.4	.11	20.6
48	0	.4	.11	20.6
49	0	.4	.11	20.6
50	0	.4	.11	20.6

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.4	.09	19.2
2	45	.4	.10	19.7
3	40	.4	.10	19.7
4	35	.4	.11	20.6
5	30	.4	.11	20.6
6	25	.4	.11	20.6
7	20	.4	.11	20.6
8	15	.4	.11	20.6
9	10	.4	.11	20.6
10	5	.4	.11	20.6
11	0	.4	.11	20.6
12	0	.4	.11	20.6
13	0	.4	.11	20.6
14	0	.4	.11	20.6
15	0	.4	.11	20.6
16	0	.4	.11	20.6
17	0	.4	.11	20.6
18	0	.4	.11	20.6
19	0	.4	.11	20.6
20	0	.4	.11	20.6
21	0	.4	.11	20.6
22	0	.4	.11	20.6
23	0	.4	.11	20.6
24	0	.4	.11	20.6
25	0	.4	.11	20.6
26	0	.4	.11	20.6
27	0	.4	.11	20.6
28	0	.4	.11	20.6
29	0	.4	.11	20.6
30	0	.4	.11	20.6
31	0	.4	.11	20.6
32	0	.4	.11	20.6
33	0	.4	.11	20.6
34	0	.4	.11	20.6
35	0	.4	.11	20.6
36	0	.4	.11	20.6
37	0	.4	.11	20.6
38	0	.4	.11	20.6
39	0	.4	.11	20.6
40	0	.4	.11	20.6
41	0	.4	.11	20.6
42	0	.4	.11	20.6
43	0	.4	.11	20.6
44	0	.4	.11	20.6
45	0	.4	.11	20.6
46	0	.4	.11	20.6
47	0	.4	.11	20.6
48	0	.4	.11	20.6
49	0	.4	.11	20.6
50	0	.4	.11	20.6

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.4	.09	19.2
2	45	.4	.10	19.7
3	40	.4	.10	19.7
4	35	.4	.11	20.6
5	30	.4	.11	20.6
6	25	.4	.11	20.6
7	20	.4	.11	20.6
8	15	.4	.11	20.6
9	10	.4	.11	20.6
10	5	.4	.11	20.6
11	0	.4	.11	20.6
12	0	.4	.11	20.6
13	0	.4	.11	20.6
14	0	.4	.11	20.6
15	0	.4	.11	20.6
16	0	.4	.11	20.6
17	0	.4	.11	20.6
18	0	.4	.11	20.6
19	0	.4	.11	20.6
20	0	.4	.11	20.6
21	0	.4	.11	20.6
22	0	.4	.11	20.6
23	0	.4	.11	20.6
24	0	.4	.11	20.6
25	0	.4	.11	20.6
26	0	.4	.11	20.6
27	0	.4	.11	20.6
28	0	.4	.11	20.6
29	0	.4	.11	20.6
30	0	.4	.11	20.6
31	0	.4	.11	20.6
32	0	.4	.11	20.6
33	0	.4	.11	20.6
34	0	.4	.11	20.6
35	0	.4	.11	20.6
36	0	.4	.11	20.6
37	0	.4	.11	20.6
38	0	.4	.11	20.6
39	0	.4	.11	20.6
40	0	.4	.11	20.6
41	0	.4	.11	20.6
42	0	.4	.11	20.6
43	0	.4	.11	20.6
44	0	.4	.11	20.6
45	0	.4	.11	20.6
46	0	.4	.11	20.6
47	0	.4	.11	20.6
48	0	.4	.11	20.6
49	0	.4	.11	20.6
50	0	.4	.11	20.6

NORMALIZED VELOCITY PROFILE B43221 REF. VEL. 31.5 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.4	.04	20.3
2	45	.4	.03	19.9
3	40	.4	.03	19.9
4	35	.4	.03	20.0
5	30	.4	.04	20.0
6	25	.4	.07	20.0
7	20	.4	.10	20.0
8	15	.4	.14	20.0
9	10	.4	.16	20.0
10	5	.4	.15	20.0
11	0	.4	.11	20.0
12	0	.4	.08	20.0
13	0	.4	.07	20.0
14	0	.4	.07	20.0
15	0	.4	.07	20.0
16	0	.4	.07	20.0
17	0	.4	.07	20.0
18	0	.4	.07	20.0
19	0	.4	.07	20.0
20	0	.4	.07	20.0
21	0	.4	.07	20.0
22	0	.4	.07	20.0
23	0	.4	.07	20.0
24	0	.4	.07	20.0
25	0	.4	.07	20.0
26	0	.4	.07	20.0
27	0	.4	.07	20.0
28	0	.4	.07	20.0
29	0	.4	.07	20.0
30	0	.4	.07	20.0
31	0	.4	.07	20.0
32	0	.4	.07	20.0
33	0	.4	.07	20.0
34	0	.4	.07	20.0
35	0	.4	.07	20.0
36	0	.4	.07	20.0
37	0	.4	.07	20.0
38	0	.4	.07	20.0
39	0	.4	.07	20.0
40	0	.4	.07	20.0
41	0	.4	.07	20.0
42	0	.4	.07	20.0
43	0	.4	.07	20.0
44	0	.4	.07	20.0
45	0	.4	.07	20.0
46	0	.4	.07	20.0
47	0	.4	.07	20.0
48	0	.4	.07	20.0
49	0	.4	.07	20.0
50	0	.4	.07	20.0



NORMALIZED VELOCITY PROFILE B43222 REF. VEL. 31.7 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.07	41.7
2	52	.17	.07	41.4
3	54	.17	.07	43.4
4	56	.17	.07	44.0
5	58	.17	.07	44.6
6	60	.17	.07	45.9
7	62	.17	.07	45.6
8	64	.17	.07	41.4
9	66	.17	.07	43.4
10	68	.17	.07	44.0
11	70	.17	.07	44.6
12	72	.17	.07	45.9
13	74	.17	.07	45.6
14	76	.17	.07	41.4
15	78	.17	.07	43.4
16	80	.17	.07	44.0
17	82	.17	.07	44.6
18	84	.17	.07	45.9
19	86	.17	.07	45.6
20	88	.17	.07	41.4
21	90	.17	.07	43.4
22	92	.17	.07	44.0
23	94	.17	.07	44.6
24	96	.17	.07	45.9
25	98	.17	.07	45.6
26	100	.17	.07	41.4
27	102	.17	.07	43.4
28	104	.17	.07	44.0
29	106	.17	.07	44.6
30	108	.17	.07	45.9
31	110	.17	.07	45.6
32	112	.17	.07	41.4
33	114	.17	.07	43.4
34	116	.17	.07	44.0
35	118	.17	.07	44.6
36	120	.17	.07	45.9
37	122	.17	.07	45.6
38	124	.17	.07	41.4
39	126	.17	.07	43.4
40	128	.17	.07	44.0
41	130	.17	.07	44.6
42	132	.17	.07	45.9
43	134	.17	.07	45.6
44	136	.17	.07	41.4
45	138	.17	.07	43.4
46	140	.17	.07	44.0
47	142	.17	.07	44.6
48	144	.17	.07	45.9
49	146	.17	.07	45.6
50	148	.17	.07	41.4
51	150	.17	.07	43.4
52	152	.17	.07	44.0
53	154	.17	.07	44.6
54	156	.17	.07	45.9
55	158	.17	.07	45.6
56	160	.17	.07	41.4
57	162	.17	.07	43.4
58	164	.17	.07	44.0
59	166	.17	.07	44.6
60	168	.17	.07	45.9
61	170	.17	.07	45.6
62	172	.17	.07	41.4
63	174	.17	.07	43.4
64	176	.17	.07	44.0
65	178	.17	.07	44.6
66	180	.17	.07	45.9
67	182	.17	.07	45.6
68	184	.17	.07	41.4
69	186	.17	.07	43.4
70	188	.17	.07	44.0
71	190	.17	.07	44.6
72	192	.17	.07	45.9
73	194	.17	.07	45.6
74	196	.17	.07	41.4
75	198	.17	.07	43.4
76	200	.17	.07	44.0
77	202	.17	.07	44.6
78	204	.17	.07	45.9
79	206	.17	.07	45.6
80	208	.17	.07	41.4
81	210	.17	.07	43.4
82	212	.17	.07	44.0
83	214	.17	.07	44.6
84	216	.17	.07	45.9
85	218	.17	.07	45.6
86	220	.17	.07	41.4
87	222	.17	.07	43.4
88	224	.17	.07	44.0
89	226	.17	.07	44.6
90	228	.17	.07	45.9
91	230	.17	.07	45.6
92	232	.17	.07	41.4
93	234	.17	.07	43.4
94	236	.17	.07	44.0
95	238	.17	.07	44.6
96	240	.17	.07	45.9
97	242	.17	.07	45.6
98	244	.17	.07	41.4
99	246	.17	.07	43.4
100	248	.17	.07	44.0
101	250	.17	.07	44.6
102	252	.17	.07	45.9
103	254	.17	.07	45.6
104	256	.17	.07	41.4
105	258	.17	.07	43.4
106	260	.17	.07	44.0
107	262	.17	.07	44.6
108	264	.17	.07	45.9
109	266	.17	.07	45.6
110	268	.17	.07	41.4
111	270	.17	.07	43.4
112	272	.17	.07	44.0
113	274	.17	.07	44.6
114	276	.17	.07	45.9
115	278	.17	.07	45.6
116	280	.17	.07	41.4
117	282	.17	.07	43.4
118	284	.17	.07	44.0
119	286	.17	.07	44.6
120	288	.17	.07	45.9
121	290	.17	.07	45.6
122	292	.17	.07	41.4
123	294	.17	.07	43.4
124	296	.17	.07	44.0
125	298	.17	.07	44.6
126	300	.17	.07	45.9
127	302	.17	.07	45.6
128	304	.17	.07	41.4
129	306	.17	.07	43.4
130	308	.17	.07	44.0
131	310	.17	.07	44.6
132	312	.17	.07	45.9
133	314	.17	.07	45.6
134	316	.17	.07	41.4
135	318	.17	.07	43.4
136	320	.17	.07	44.0
137	322	.17	.07	44.6
138	324	.17	.07	45.9
139	326	.17	.07	45.6
140	328	.17	.07	41.4
141	330	.17	.07	43.4
142	332	.17	.07	44.0
143	334	.17	.07	44.6
144	336	.17	.07	45.9
145	338	.17	.07	45.6
146	340	.17	.07	41.4
147	342	.17	.07	43.4
148	344	.17	.07	44.0
149	346	.17	.07	44.6
150	348	.17	.07	45.9
151	350	.17	.07	45.6
152	352	.17	.07	41.4
153	354	.17	.07	43.4
154	356	.17	.07	44.0
155	358	.17	.07	44.6
156	360	.17	.07	45.9
157	362	.17	.07	45.6
158	364	.17	.07	41.4
159	366	.17	.07	43.4
160	368	.17	.07	44.0
161	370	.17	.07	44.6
162	372	.17	.07	45.9
163	374	.17	.07	45.6
164	376	.17	.07	41.4
165	378	.17	.07	43.4
166	380	.17	.07	44.0
167	382	.17	.07	44.6
168	384	.17	.07	45.9
169	386	.17	.07	45.6
170	388	.17	.07	41.4
171	390	.17	.07	43.4
172	392	.17	.07	44.0
173	394	.17	.07	44.6
174	396	.17	.07	45.9
175	398	.17	.07	45.6
176	400	.17	.07	41.4
177	402	.17	.07	43.4
178	404	.17	.07	44.0
179	406	.17	.07	44.6
180	408	.17	.07	45.9
181	410	.17	.07	45.6
182	412	.17	.07	41.4
183	414	.17	.07	43.4
184	416	.17	.07	44.0
185	418	.17	.07	44.6
186	420	.17	.07	45.9
187	422	.17	.07	45.6
188	424	.17	.07	41.4
189	426	.17	.07	43.4
190	428	.17	.07	44.0
191	430	.17	.07	44.6
192	432	.17	.07	45.9
193	434	.17	.07	45.6
194	436	.17	.07	41.4
195	438	.17	.07	43.4
196	440	.17	.07	44.0
197	442	.17	.07	44.6
198	444	.17	.07	45.9
199	446	.17	.07	45.6
200	448	.17	.07	41.4
201	450	.17	.07	43.4
202	452	.17	.07	44.0
203	454	.17	.07	44.6
204	456	.17	.07	45.9
205	458	.17	.07	45.6
206	460	.17	.07	41.4
207	462	.17	.07	43.4
208	464	.17	.07	44.0
209	466	.17	.07	44.6
210	468	.17	.07	45.9
211	470	.17	.07	45.6
212	472	.17	.07	41.4
213	474	.17	.07	43.4
214	476	.17	.07	44.0
215	478	.17	.07	44.6
216	480	.17	.07	45.9
217	482	.17	.07	45.6
218	484	.17	.07	41.4
219	486	.17	.07	43.4
220	488	.17	.07	44.0
221	490	.17	.07	44.6
222	492	.17	.07	45.9
223	494	.17	.07	45.6
224	496	.17	.07	41.4
225	498	.17	.07	43.4
226	500	.17	.07	44.0
227	502	.17	.07	44.6
228	504	.17	.07	45.9
229	506	.17	.07	45.6
230	508	.17	.07	41.4
231	510	.17	.07	43.4
232	512	.17	.07	44.0
233	514	.17	.07	44.6
234	516	.17	.07	45.9
235	518	.17	.07	45.6
236	520	.17	.07	41.4
237	522	.17	.07	43.4
238	524	.17	.07	44.0
239	526	.17	.07	44.6
240	528	.17	.07	45.9
241	530	.17	.07	45.6

NORMALIZED VELOCITY PROFILE B43223 REF. VEL. 31.7 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.17	.07	41.7
2	52	.17	.07	41.4
3	54	.17	.07	43.4
4	56	.17	.07	44.0
5	58	.17	.07	44.6
6	60	.17	.07	45.9
7	62	.17	.07	45.6
8	64	.17	.07	41.4
9	66	.17	.07	43.4
10	68	.17	.07	44.0
11	70	.17	.07	44.6
12	72	.17	.07	45.9
13	74	.17	.07	45.6
14	76	.17	.07	41.4
15	78	.17	.07	43.4
16	80	.17	.07	44.0
17	82	.17	.07	44.6
18	84	.17	.07	45.9
19	86	.17	.07	45.6
20	88	.17	.07	41.4
21	90	.17	.07	43.4
22	92	.17	.07	44.0
23	94	.17	.07	44.6
24	96	.17	.07	45.9
25	98	.17	.07	45.6
26	100	.17	.07	41.4
27	102	.17	.07	43.4
28	104	.17	.07	44.0
29	106	.17	.07	44.6
30	108	.17	.07	45.9
31	110	.17	.07	45.6
32	112	.17	.07	41.4
33	114	.17	.07	43.4
34				

NORMALIZED VELOCITY PROFILE B53221 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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	10	.19	.06	2.9
2	11	.22	.07	3.2
3	12	.25	.08	3.5
4	13	.28	.09	3.8
5	14	.31	.10	4.1
6	15	.34	.11	4.4
7	16	.37	.12	4.7
8	17	.40	.13	5.0
9	18	.43	.14	5.3
10	19	.46	.15	5.6
11	20	.49	.16	5.9
12	21	.52	.17	6.2
13	22	.55	.18	6.5
14	23	.58	.19	6.8
15	24	.61	.20	7.1
16	25	.64	.21	7.4
17	26	.67	.22	7.7

NORMALIZED VELOCITY PROFILE B53222 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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	10	.19	.06	2.9
2	11	.22	.07	3.2
3	12	.25	.08	3.5
4	13	.28	.09	3.8
5	14	.31	.10	4.1
6	15	.34	.11	4.4
7	16	.37	.12	4.7
8	17	.40	.13	5.0
9	18	.43	.14	5.3
10	19	.46	.15	5.6
11	20	.49	.16	5.9
12	21	.52	.17	6.2
13	22	.55	.18	6.5
14	23	.58	.19	6.8
15	24	.61	.20	7.1
16	25	.64	.21	7.4
17	26	.67	.22	7.7

NORMALIZED VELOCITY PROFILE B53223 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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	10	.19	.06	2.9
2	11	.22	.07	3.2
3	12	.25	.08	3.5
4	13	.28	.09	3.8
5	14	.31	.10	4.1
6	15	.34	.11	4.4
7	16	.37	.12	4.7
8	17	.40	.13	5.0
9	18	.43	.14	5.3
10	19	.46	.15	5.6
11	20	.49	.16	5.9
12	21	.52	.17	6.2
13	22	.55	.18	6.5
14	23	.58	.19	6.8
15	24	.61	.20	7.1
16	25	.64	.21	7.4
17	26	.67	.22	7.7

NORMALIZED VELOCITY PROFILE B53224 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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	10	.27	.08	2.9
2	11	.30	.09	3.2
3	12	.33	.10	3.5
4	13	.36	.11	3.8
5	14	.39	.12	4.1
6	15	.42	.13	4.4
7	16	.45	.14	4.7
8	17	.48	.15	5.0
9	18	.51	.16	5.3
10	19	.54	.17	5.6
11	20	.57	.18	5.9
12	21	.60	.19	6.2
13	22	.63	.20	6.5
14	23	.66	.21	6.8
15	24	.69	.22	7.1
16	25	.72	.23	7.4
17	26	.75	.24	7.7

NORMALIZED VELOCITY PROFILE 853225 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NE  
 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	0.0	0.0	0.0	0.0
2	0.5	0.0	0.0	0.0
3	1.0	0.0	0.0	0.0
4	1.5	0.0	0.0	0.0
5	2.0	0.0	0.0	0.0
6	2.5	0.0	0.0	0.0
7	3.0	0.0	0.0	0.0
8	3.5	0.0	0.0	0.0
9	4.0	0.0	0.0	0.0
10	4.5	0.0	0.0	0.0
11	5.0	0.0	0.0	0.0
12	5.5	0.0	0.0	0.0
13	6.0	0.0	0.0	0.0
14	6.5	0.0	0.0	0.0
15	7.0	0.0	0.0	0.0
16	7.5	0.0	0.0	0.0
17	8.0	0.0	0.0	0.0
18	8.5	0.0	0.0	0.0
19	9.0	0.0	0.0	0.0
20	9.5	0.0	0.0	0.0
21	10.0	0.0	0.0	0.0
22	10.5	0.0	0.0	0.0
23	11.0	0.0	0.0	0.0
24	11.5	0.0	0.0	0.0
25	12.0	0.0	0.0	0.0
26	12.5	0.0	0.0	0.0
27	13.0	0.0	0.0	0.0
28	13.5	0.0	0.0	0.0
29	14.0	0.0	0.0	0.0
30	14.5	0.0	0.0	0.0
31	15.0	0.0	0.0	0.0
32	15.5	0.0	0.0	0.0
33	16.0	0.0	0.0	0.0
34	16.5	0.0	0.0	0.0
35	17.0	0.0	0.0	0.0
36	17.5	0.0	0.0	0.0
37	18.0	0.0	0.0	0.0
38	18.5	0.0	0.0	0.0
39	19.0	0.0	0.0	0.0
40	19.5	0.0	0.0	0.0
41	20.0	0.0	0.0	0.0
42	20.5	0.0	0.0	0.0
43	21.0	0.0	0.0	0.0
44	21.5	0.0	0.0	0.0
45	22.0	0.0	0.0	0.0
46	22.5	0.0	0.0	0.0
47	23.0	0.0	0.0	0.0
48	23.5	0.0	0.0	0.0
49	24.0	0.0	0.0	0.0
50	24.5	0.0	0.0	0.0
51	25.0	0.0	0.0	0.0
52	25.5	0.0	0.0	0.0
53	26.0	0.0	0.0	0.0
54	26.5	0.0	0.0	0.0
55	27.0	0.0	0.0	0.0
56	27.5	0.0	0.0	0.0
57	28.0	0.0	0.0	0.0
58	28.5	0.0	0.0	0.0
59	29.0	0.0	0.0	0.0
60	29.5	0.0	0.0	0.0
61	30.0	0.0	0.0	0.0
62	30.5	0.0	0.0	0.0
63	31.0	0.0	0.0	0.0
64	31.5	0.0	0.0	0.0
65	32.0	0.0	0.0	0.0
66	32.5	0.0	0.0	0.0
67	33.0	0.0	0.0	0.0
68	33.5	0.0	0.0	0.0
69	34.0	0.0	0.0	0.0
70	34.5	0.0	0.0	0.0
71	35.0	0.0	0.0	0.0
72	35.5	0.0	0.0	0.0
73	36.0	0.0	0.0	0.0
74	36.5	0.0	0.0	0.0
75	37.0	0.0	0.0	0.0
76	37.5	0.0	0.0	0.0
77	38.0	0.0	0.0	0.0
78	38.5	0.0	0.0	0.0
79	39.0	0.0	0.0	0.0
80	39.5	0.0	0.0	0.0
81	40.0	0.0	0.0	0.0
82	40.5	0.0	0.0	0.0
83	41.0	0.0	0.0	0.0
84	41.5	0.0	0.0	0.0
85	42.0	0.0	0.0	0.0
86	42.5	0.0	0.0	0.0
87	43.0	0.0	0.0	0.0
88	43.5	0.0	0.0	0.0
89	44.0	0.0	0.0	0.0
90	44.5	0.0	0.0	0.0
91	45.0	0.0	0.0	0.0
92	45.5	0.0	0.0	0.0
93	46.0	0.0	0.0	0.0
94	46.5	0.0	0.0	0.0
95	47.0	0.0	0.0	0.0
96	47.5	0.0	0.0	0.0
97	48.0	0.0	0.0	0.0
98	48.5	0.0	0.0	0.0
99	49.0	0.0	0.0	0.0
100	49.5	0.0	0.0	0.0
101	50.0	0.0	0.0	0.0
102	50.5	0.0	0.0	0.0
103	51.0	0.0	0.0	0.0
104	51.5	0.0	0.0	0.0
105	52.0	0.0	0.0	0.0

NORMALIZED VELOCITY PROFILE B13301 REF. VEL. 30.8 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.48	.10	20.5
2	.74	.50	.10	20.1
3	1.00	.51	.10	19.2
4	1.53	.57	.10	17.7
5	2.05	.61	.10	16.5
6	2.58	.66	.11	15.4
7	3.11	.69	.10	14.4
8	3.64	.71	.10	13.4
9	4.17	.74	.09	12.4
10	4.70	.77	.09	11.4
11	5.23	.79	.09	10.4
12	5.76	.81	.09	9.4
13	6.29	.83	.09	8.4
14	6.82	.85	.08	7.4
15	7.35	.87	.07	6.4
16	7.88	.89	.06	5.4
17	8.41	.91	.05	4.4
18	8.94	.93	.05	3.4
19	9.47	.95	.05	2.4
20	10.00	.97	.05	1.4

NORMALIZED VELOCITY PROFILE B13302 REF. VEL. 30.9 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.48	.09	20.2
2	.75	.50	.10	20.7
3	1.01	.51	.09	18.8
4	1.57	.57	.09	17.8
5	2.02	.61	.10	17.1
6	2.40	.66	.10	16.4
7	2.97	.69	.10	15.7
8	3.51	.71	.10	14.9
9	4.08	.74	.09	14.1
10	4.67	.77	.09	13.3
11	5.27	.79	.09	12.5
12	5.87	.81	.08	11.7
13	6.47	.83	.08	10.9
14	7.07	.85	.08	10.1
15	7.67	.87	.07	9.3

NORMALIZED VELOCITY PROFILE B13303 REF. VEL. 31.0 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.54	.10	18.0
2	.75	.57	.09	16.3
3	1.00	.60	.10	16.6
4	1.54	.65	.10	14.8
5	2.08	.69	.09	14.1
6	2.62	.73	.10	13.4
7	3.16	.77	.10	12.6
8	3.70	.81	.10	11.8
9	4.24	.84	.09	11.1
10	4.78	.87	.09	10.4
11	5.32	.90	.09	9.6
12	5.86	.93	.08	8.9
13	6.40	.96	.08	8.2
14	6.94	.99	.08	7.4
15	7.48	.99	.07	6.7

NORMALIZED VELOCITY PROFILE B13304 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.45	.09	20.5
2	.75	.48	.10	21.2
3	1.00	.49	.10	20.0
4	1.55	.51	.10	20.3
5	2.09	.52	.10	18.3
6	2.63	.54	.09	16.4
7	3.17	.57	.09	13.7
8	3.71	.60	.09	12.2
9	4.25	.63	.08	11.6
10	4.79	.64	.08	11.1
11	5.33	.66	.08	11.1
12	5.87	.68	.09	11.4
13	6.41	.69	.09	9.8
14	6.95	.70	.08	9.0
15	7.49	.71	.07	8.2

NORMALIZED VELOCITY PROFILE B13305 REF. VEL. 31.4 FPS

TEST ZONE = B WIND DIRECTION = WEST  
 TIME OF DAY = STOWED POSITION OF PROFILE = 5  
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	36	.08	.09	17.8
2	42	.08	.10	17.7
3	48	.08	.10	15.6
4	54	.08	.09	15.2
5	60	.08	.09	14.3
6	66	.08	.10	13.3
7	72	.08	.09	13.0
8	78	.08	.09	11.1
9	84	.08	.08	11.1
10	90	.08	.08	11.1
11	96	.08	.08	10.0
12	102	.08	.07	9.9
13	108	.08	.07	7.8
14	114	.08	.07	7.7

NORMALIZED VELOCITY PROFILE B13321 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	36	.11	.07	33.4
2	42	.11	.08	33.4
3	48	.11	.09	33.3
4	54	.11	.11	33.3
5	60	.11	.13	33.3
6	66	.11	.14	33.3
7	72	.11	.16	33.3
8	78	.11	.17	33.3
9	84	.11	.16	33.3
10	90	.11	.16	33.3
11	96	.11	.10	33.3
12	102	.11	.09	33.3
13	108	.11	.08	33.3
14	114	.11	.07	33.3
15	120	.11	.07	33.3

NORMALIZED VELOCITY PROFILE B13322 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	36	.09	.09	33.3
2	42	.09	.10	33.3
3	48	.09	.10	33.3
4	54	.09	.11	33.3
5	60	.09	.13	33.3
6	66	.09	.14	33.3
7	72	.09	.15	33.3
8	78	.09	.14	33.3
9	84	.09	.12	33.3
10	90	.09	.11	33.3
11	96	.09	.11	33.3
12	102	.09	.09	33.3
13	108	.09	.08	33.3
14	114	.09	.07	33.3
15	120	.09	.07	33.3

NORMALIZED VELOCITY PROFILE B13323 REF. VEL. 31.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	36	.11	.11	33.3
2	42	.11	.11	33.3
3	48	.11	.13	33.3
4	54	.11	.13	33.3
5	60	.11	.14	33.3
6	66	.11	.15	33.3
7	72	.11	.15	33.3
8	78	.11	.14	33.3
9	84	.11	.13	33.3
10	90	.11	.12	33.3
11	96	.11	.11	33.3
12	102	.11	.10	33.3
13	108	.11	.08	33.3
14	114	.11	.07	33.3
15	120	.11	.06	33.3

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.33	.11	33
2	.74	.33	.11	33
3	1.00	.33	.10	33
4	1.25	.33	.10	33
5	1.50	.33	.11	33
6	1.74	.33	.11	33
7	2.00	.33	.11	33
8	2.25	.33	.14	33
9	2.50	.33	.14	33
10	2.74	.33	.14	33
11	3.00	.33	.14	33
12	3.25	.33	.14	33
13	3.50	.33	.11	33
14	3.74	.33	.10	33
15	4.00	.33	.08	33
16	4.25	.33	.07	33

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.40	.11	28
2	.74	.40	.11	27
3	1.00	.40	.12	27
4	1.25	.40	.13	27
5	1.50	.40	.13	27
6	1.74	.40	.12	27
7	2.00	.40	.12	27
8	2.25	.40	.13	27
9	2.50	.40	.13	27
10	2.74	.40	.13	27
11	3.00	.40	.13	27
12	3.25	.40	.13	27
13	3.50	.40	.13	27
14	3.74	.40	.13	27
15	4.00	.40	.12	27
16	4.25	.40	.10	27
17	4.50	.40	.08	27

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.34	.09	17
2	.74	.34	.09	15
3	1.00	.34	.08	14
4	1.25	.34	.08	12
5	1.50	.34	.08	13
6	1.74	.34	.08	13
7	2.00	.34	.08	13
8	2.25	.34	.09	13
9	2.50	.34	.08	11
10	2.74	.34	.08	11
11	3.00	.34	.08	11
12	3.25	.34	.08	10
13	3.50	.34	.08	10
14	3.74	.34	.08	10
15	4.00	.34	.08	9
16	4.25	.34	.08	9
17	4.50	.34	.07	8

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.57	.09	16
2	.74	.57	.08	14
3	1.00	.57	.09	14
4	1.25	.57	.09	13
5	1.50	.57	.09	14
6	1.74	.57	.08	13
7	2.00	.57	.08	11
8	2.25	.57	.09	12
9	2.50	.57	.08	11
10	2.74	.57	.08	10
11	3.00	.57	.08	10
12	3.25	.57	.08	10
13	3.50	.57	.08	10
14	3.74	.57	.08	10
15	4.00	.57	.08	9
16	4.25	.57	.07	9
17	4.50	.57	.07	7

NORMALIZED VELOCITY PROFILE B33303 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.50	.09	15.4
2	60	.50	.09	14.2
3	70	.50	.08	13.3
4	80	.50	.08	14.2
5	90	.50	.08	13.3
6	100	.50	.09	14.2
7	110	.50	.09	13.3
8	120	.50	.09	12.2
9	130	.50	.09	11.1
10	140	.50	.08	10.0
11	150	.50	.08	9.9
12	160	.50	.07	8.7
13	170	.50	.07	7.8
14	180	.50	.07	6.7
15	190	.50	.07	5.9
16	200	.50	.07	5.0
17	210	.50	.07	4.1
18	220	.50	.07	3.2
19	230	.50	.07	2.3
20	240	.50	.07	1.4
21	250	.50	.07	0.5
22	260	.50	.07	0.5
23	270	.50	.07	0.5
24	280	.50	.07	0.5
25	290	.50	.07	0.5
26	300	.50	.07	0.5
27	310	.50	.07	0.5
28	320	.50	.07	0.5
29	330	.50	.07	0.5
30	340	.50	.07	0.5
31	350	.50	.07	0.5
32	360	.50	.07	0.5
33	370	.50	.07	0.5
34	380	.50	.07	0.5
35	390	.50	.07	0.5
36	400	.50	.07	0.5
37	410	.50	.07	0.5
38	420	.50	.07	0.5
39	430	.50	.07	0.5
40	440	.50	.07	0.5
41	450	.50	.07	0.5
42	460	.50	.07	0.5
43	470	.50	.07	0.5
44	480	.50	.07	0.5
45	490	.50	.07	0.5
46	500	.50	.07	0.5
47	510	.50	.07	0.5
48	520	.50	.07	0.5
49	530	.50	.07	0.5
50	540	.50	.07	0.5
51	550	.50	.07	0.5
52	560	.50	.07	0.5
53	570	.50	.07	0.5
54	580	.50	.07	0.5
55	590	.50	.07	0.5
56	600	.50	.07	0.5
57	610	.50	.07	0.5
58	620	.50	.07	0.5
59	630	.50	.07	0.5
60	640	.50	.07	0.5
61	650	.50	.07	0.5
62	660	.50	.07	0.5
63	670	.50	.07	0.5
64	680	.50	.07	0.5
65	690	.50	.07	0.5
66	700	.50	.07	0.5
67	710	.50	.07	0.5
68	720	.50	.07	0.5
69	730	.50	.07	0.5
70	740	.50	.07	0.5
71	750	.50	.07	0.5
72	760	.50	.07	0.5
73	770	.50	.07	0.5
74	780	.50	.07	0.5
75	790	.50	.07	0.5
76	800	.50	.07	0.5
77	810	.50	.07	0.5
78	820	.50	.07	0.5
79	830	.50	.07	0.5
80	840	.50	.07	0.5
81	850	.50	.07	0.5
82	860	.50	.07	0.5
83	870	.50	.07	0.5
84	880	.50	.07	0.5
85	890	.50	.07	0.5
86	900	.50	.07	0.5
87	910	.50	.07	0.5
88	920	.50	.07	0.5
89	930	.50	.07	0.5
90	940	.50	.07	0.5
91	950	.50	.07	0.5
92	960	.50	.07	0.5
93	970	.50	.07	0.5
94	980	.50	.07	0.5
95	990	.50	.07	0.5
96	1000	.50	.07	0.5

NORMALIZED VELOCITY PROFILE B33304 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.50	.10	19.2
2	60	.50	.10	17.6
3	70	.50	.09	15.7
4	80	.50	.08	13.7
5	90	.50	.08	12.0
6	100	.50	.08	10.7
7	110	.50	.08	9.4
8	120	.50	.08	8.1
9	130	.50	.08	6.8
10	140	.50	.08	5.5
11	150	.50	.08	4.2
12	160	.50	.07	3.0
13	170	.50	.07	1.8
14	180	.50	.06	0.6
15	190	.50	.06	0.5
16	200	.50	.06	0.5
17	210	.50	.06	0.5
18	220	.50	.06	0.5
19	230	.50	.06	0.5
20	240	.50	.06	0.5
21	250	.50	.06	0.5
22	260	.50	.06	0.5
23	270	.50	.06	0.5
24	280	.50	.06	0.5
25	290	.50	.06	0.5
26	300	.50	.06	0.5
27	310	.50	.06	0.5
28	320	.50	.06	0.5
29	330	.50	.06	0.5
30	340	.50	.06	0.5
31	350	.50	.06	0.5
32	360	.50	.06	0.5
33	370	.50	.06	0.5
34	380	.50	.06	0.5
35	390	.50	.06	0.5
36	400	.50	.06	0.5
37	410	.50	.06	0.5
38	420	.50	.06	0.5
39	430	.50	.06	0.5
40	440	.50	.06	0.5
41	450	.50	.06	0.5
42	460	.50	.06	0.5
43	470	.50	.06	0.5
44	480	.50	.06	0.5
45	490	.50	.06	0.5
46	500	.50	.06	0.5
47	510	.50	.06	0.5
48	520	.50	.06	0.5
49	530	.50	.06	0.5
50	540	.50	.06	0.5
51	550	.50	.06	0.5
52	560	.50	.06	0.5
53	570	.50	.06	0.5
54	580	.50	.06	0.5
55	590	.50	.06	0.5
56	600	.50	.06	0.5
57	610	.50	.06	0.5
58	620	.50	.06	0.5
59	630	.50	.06	0.5
60	640	.50	.06	0.5
61	650	.50	.06	0.5
62	660	.50	.06	0.5
63	670	.50	.06	0.5
64	680	.50	.06	0.5
65	690	.50	.06	0.5
66	700	.50	.06	0.5
67	710	.50	.06	0.5
68	720	.50	.06	0.5
69	730	.50	.06	0.5
70	740	.50	.06	0.5
71	750	.50	.06	0.5
72	760	.50	.06	0.5
73	770	.50	.06	0.5
74	780	.50	.06	0.5
75	790	.50	.06	0.5
76	800	.50	.06	0.5
77	810	.50	.06	0.5
78	820	.50	.06	0.5
79	830	.50	.06	0.5
80	840	.50	.06	0.5
81	850	.50	.06	0.5
82	860	.50	.06	0.5
83	870	.50	.06	0.5
84	880	.50	.06	0.5
85	890	.50	.06	0.5
86	900	.50	.06	0.5
87	910	.50	.06	0.5
88	920	.50	.06	0.5
89	930	.50	.06	0.5
90	940	.50	.06	0.5
91	950	.50	.06	0.5
92	960	.50	.06	0.5
93	970	.50	.06	0.5
94	980	.50	.06	0.5
95	990	.50	.06	0.5
96	1000	.50	.06	0.5

NORMALIZED VELOCITY PROFILE B33305 REF. VEL. 31.2 FPS

TEST ZONE = B WIND DIRECTION = NW  
 TIME OF DAY = STOWED POSITION OF PROFILE = 5  
 FENCE CONFIGURATION = NO FENCE

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.50	.09	15.4
2	60	.50	.09	14.2
3	70	.50	.08	13.3
4	80	.50	.08	14.2
5	90	.50	.08	13.3
6	100	.50	.09	14.2
7	110	.50	.09	13.3
8	120	.50	.09	12.2
9	130	.50	.09	11.1
10	140	.50	.08	10.0
11	150	.50	.08	9.9
12	160	.50	.07	8.7
13	170	.50	.07	7.8
14	180	.50	.06	6.7
15	190	.50	.06	5.9
16	200	.50	.06	5.0
17	210	.50	.06	4.1
18	220	.50	.06	3.2
19	230	.50	.06	2.3
20	240	.50	.06	1.4
21	250	.50	.06	0.5
22	260	.50	.06	0.5
23	270	.50	.06	0.5
24	280	.50	.06	0.5
25	290	.50	.06	0.5
26	300	.50	.06	0.5
27	310	.50	.06	0.5
28	320	.50	.06	0.5
29	330	.50	.06	0.5
30	340	.50	.06	0.5
31	350	.50	.06	0.5
32	360	.50	.06	0.5
33	370	.50	.06	0.5
34	380	.50	.06	0.5
35	390	.50	.06	0.5
36	400	.50	.06	0.5
37	410	.50	.06	0.5
38	420	.50	.06	0.5
39	430	.50	.06	0.5
40	440	.50	.06	0.5
41	450	.50	.06	0.5
42	460	.50	.06	0.5
43	470	.50	.06	0.5
44	480	.50	.06	0.5
45	490	.50	.06	0.5
46	500	.50	.06	0.5
47	510	.50	.06	0.5
48	520	.50	.06	0.5
49	530	.50	.06	0.5
50	540	.50	.06	0.5
51	550	.50	.06	0.5
52	560	.50	.06	0.5
53	570	.50	.06	0.5
54	580	.50	.06	0.5
55	590	.50	.06	0.5
56	600	.50	.06	0.5
57	610	.50	.06	0.5
58	620	.50	.06	0.5
59	630	.50	.06	0.5
60	640	.50	.06	0.5
61	650	.50	.06	0.5
62	660	.50	.06	0.5
63	670	.50	.06	0.5
64	680	.50	.06	0.5
65	690	.50	.06	0.5
66	700	.50	.06	0.5
67	710	.50	.06	0.5
68	720	.50	.06	0.5
69	730	.50	.06	0.5
70	740	.50	.06	0.5
71	750	.50	.06	0.5
72	760	.50	.06	0.5
73	770	.50	.06	0.5
74	780	.50	.06	0.5
75	790	.50	.06	0.5
76	800	.50	.06	0.5
77	810	.50	.06	0.5
78	820	.50	.06	0.5
79	830	.50	.06	0.5
80	840	.50	.06	0.5
81	850	.50	.06	0.5
82	860	.50	.06	0.5
83	870	.50	.06	0.5
84	880	.50	.06	0.5
85				

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	.50	.64	.11	17
1	1.00	.63	.11	17
1	1.50	.63	.11	17
1	2.00	.63	.11	17
1	2.50	.63	.11	17
1	3.00	.63	.11	17
1	3.50	.63	.11	17
1	4.00	.63	.11	17
1	4.50	.63	.11	17
1	5.00	.63	.11	17
1	5.50	.63	.11	17
1	6.00	.63	.11	17
1	6.50	.63	.11	17
1	7.00	.63	.11	17
1	7.50	.63	.11	17
1	8.00	.63	.11	17
1	8.50	.63	.11	17
1	9.00	.63	.11	17
1	9.50	.63	.11	17
1	10.00	.63	.11	17
1	10.50	.63	.11	17
1	11.00	.63	.11	17
1	11.50	.63	.11	17
1	12.00	.63	.11	17
1	12.50	.63	.11	17
1	13.00	.63	.11	17
1	13.50	.63	.11	17
1	14.00	.63	.11	17
1	14.50	.63	.11	17
1	15.00	.63	.11	17
1	15.50	.63	.11	17
1	16.00	.63	.11	17
1	16.50	.63	.11	17
1	17.00	.63	.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	.50	.55	.12	21
1	1.00	.55	.12	21
1	1.50	.55	.12	21
1	2.00	.55	.12	21
1	2.50	.55	.12	21
1	3.00	.55	.12	21
1	3.50	.55	.12	21
1	4.00	.55	.12	21
1	4.50	.55	.12	21
1	5.00	.55	.12	21
1	5.50	.55	.12	21
1	6.00	.55	.12	21
1	6.50	.55	.12	21
1	7.00	.55	.12	21
1	7.50	.55	.12	21
1	8.00	.55	.12	21
1	8.50	.55	.12	21
1	9.00	.55	.12	21
1	9.50	.55	.12	21
1	10.00	.55	.12	21
1	10.50	.55	.12	21
1	11.00	.55	.12	21
1	11.50	.55	.12	21
1	12.00	.55	.12	21
1	12.50	.55	.12	21
1	13.00	.55	.12	21
1	13.50	.55	.12	21
1	14.00	.55	.12	21
1	14.50	.55	.12	21
1	15.00	.55	.12	21
1	15.50	.55	.12	21
1	16.00	.55	.12	21
1	16.50	.55	.12	21
1	17.00	.55	.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	.50	.68	.09	18
1	1.00	.68	.09	18
1	1.50	.68	.09	18
1	2.00	.68	.09	18
1	2.50	.68	.09	18
1	3.00	.68	.09	18
1	3.50	.68	.09	18
1	4.00	.68	.09	18
1	4.50	.68	.09	18
1	5.00	.68	.09	18
1	5.50	.68	.09	18
1	6.00	.68	.09	18
1	6.50	.68	.09	18
1	7.00	.68	.09	18
1	7.50	.68	.09	18
1	8.00	.68	.09	18
1	8.50	.68	.09	18
1	9.00	.68	.09	18
1	9.50	.68	.09	18
1	10.00	.68	.09	18
1	10.50	.68	.09	18
1	11.00	.68	.09	18
1	11.50	.68	.09	18
1	12.00	.68	.09	18
1	12.50	.68	.09	18
1	13.00	.68	.09	18
1	13.50	.68	.09	18
1	14.00	.68	.09	18
1	14.50	.68	.09	18
1	15.00	.68	.09	18
1	15.50	.68	.09	18
1	16.00	.68	.09	18
1	16.50	.68	.09	18
1	17.00	.68	.09	18

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	.50	.68	.08	11
1	1.00	.68	.08	11
1	1.50	.68	.08	11
1	2.00	.68	.08	11
1	2.50	.68	.08	11
1	3.00	.68	.08	11
1	3.50	.68	.08	11
1	4.00	.68	.08	11
1	4.50	.68	.08	11
1	5.00	.68	.08	11
1	5.50	.68	.08	11
1	6.00	.68	.08	11
1	6.50	.68	.08	11
1	7.00	.68	.08	11
1	7.50	.68	.08	11
1	8.00	.68	.08	11
1	8.50	.68	.08	11
1	9.00	.68	.08	11
1	9.50	.68	.08	11
1	10.00	.68	.08	11
1	10.50	.68	.08	11
1	11.00	.68	.08	11
1	11.50	.68	.08	11
1	12.00	.68	.08	11
1	12.50	.68	.08	11
1	13.00	.68	.08	11
1	13.50	.68	.08	11
1	14.00	.68	.08	11
1	14.50	.68	.08	11
1	15.00	.68	.08	11
1	15.50	.68	.08	11
1	16.00	.68	.08	11
1	16.50	.68	.08	11
1	17.00	.68	.08	11



NORMALIZED VELOCITY PROFILE B53301 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	U/REF	TURB INT (PERCENT)
1	1.50	.56	.09	16.8
2	1.61	.61	.09	15.1
3	1.73	.66	.09	13.5
4	1.84	.71	.09	11.1
5	1.96	.76	.09	11.1
6	2.07	.81	.09	11.1
7	2.19	.86	.09	11.1
8	2.30	.91	.09	11.1
9	2.42	.96	.09	11.1
10	2.53	1.01	.09	11.1
11	2.65	1.06	.09	11.1
12	2.76	1.11	.09	11.1
13	2.88	1.16	.09	11.1
14	2.99	1.21	.09	11.1
15	3.11	1.26	.09	11.1
16	3.22	1.31	.09	11.1
17	3.34	1.36	.09	11.1
18	3.45	1.41	.09	11.1
19	3.57	1.46	.09	11.1
20	3.68	1.51	.09	11.1
21	3.80	1.56	.09	11.1
22	3.91	1.61	.09	11.1
23	4.03	1.66	.09	11.1
24	4.14	1.71	.09	11.1
25	4.26	1.76	.09	11.1
26	4.37	1.81	.09	11.1
27	4.49	1.86	.09	11.1
28	4.60	1.91	.09	11.1
29	4.72	1.96	.09	11.1
30	4.83	2.01	.09	11.1
31	4.95	2.06	.09	11.1
32	5.06	2.11	.09	11.1
33	5.18	2.16	.09	11.1
34	5.29	2.21	.09	11.1
35	5.41	2.26	.09	11.1
36	5.52	2.31	.09	11.1
37	5.64	2.36	.09	11.1
38	5.75	2.41	.09	11.1
39	5.87	2.46	.09	11.1
40	5.98	2.51	.09	11.1
41	6.10	2.56	.09	11.1
42	6.21	2.61	.09	11.1
43	6.33	2.66	.09	11.1
44	6.44	2.71	.09	11.1
45	6.56	2.76	.09	11.1
46	6.67	2.81	.09	11.1
47	6.79	2.86	.09	11.1
48	6.90	2.91	.09	11.1
49	7.02	2.96	.09	11.1
50	7.13	3.01	.09	11.1
51	7.25	3.06	.09	11.1
52	7.36	3.11	.09	11.1
53	7.48	3.16	.09	11.1
54	7.59	3.21	.09	11.1
55	7.71	3.26	.09	11.1
56	7.82	3.31	.09	11.1
57	7.94	3.36	.09	11.1
58	8.05	3.41	.09	11.1
59	8.17	3.46	.09	11.1
60	8.28	3.51	.09	11.1
61	8.40	3.56	.09	11.1
62	8.51	3.61	.09	11.1
63	8.63	3.66	.09	11.1
64	8.74	3.71	.09	11.1
65	8.86	3.76	.09	11.1
66	8.97	3.81	.09	11.1
67	9.09	3.86	.09	11.1
68	9.20	3.91	.09	11.1
69	9.32	3.96	.09	11.1
70	9.43	4.01	.09	11.1
71	9.55	4.06	.09	11.1
72	9.66	4.11	.09	11.1
73	9.78	4.16	.09	11.1
74	9.89	4.21	.09	11.1
75	10.01	4.26	.09	11.1
76	10.12	4.31	.09	11.1
77	10.24	4.36	.09	11.1
78	10.35	4.41	.09	11.1
79	10.47	4.46	.09	11.1
80	10.58	4.51	.09	11.1
81	10.70	4.56	.09	11.1
82	10.81	4.61	.09	11.1
83	10.93	4.66	.09	11.1
84	11.04	4.71	.09	11.1
85	11.16	4.76	.09	11.1
86	11.27	4.81	.09	11.1
87	11.39	4.86	.09	11.1
88	11.50	4.91	.09	11.1
89	11.62	4.96	.09	11.1
90	11.73	5.01	.09	11.1
91	11.85	5.06	.09	11.1
92	11.96	5.11	.09	11.1
93	12.08	5.16	.09	11.1
94	12.19	5.21	.09	11.1
95	12.31	5.26	.09	11.1
96	12.42	5.31	.09	11.1
97	12.54	5.36	.09	11.1
98	12.65	5.41	.09	11.1
99	12.77	5.46	.09	11.1
100	12.88	5.51	.09	11.1
101	12.99	5.56	.09	11.1
102	13.11	5.61	.09	11.1
103	13.22	5.66	.09	11.1
104	13.34	5.71	.09	11.1
105	13.45	5.76	.09	11.1
106	13.57	5.81	.09	11.1
107	13.68	5.86	.09	11.1
108	13.80	5.91	.09	11.1
109	13.91	5.96	.09	11.1
110	14.03	6.01	.09	11.1
111	14.14	6.06	.09	11.1
112	14.26	6.11	.09	11.1
113	14.37	6.16	.09	11.1
114	14.49	6.21	.09	11.1
115	14.60	6.26	.09	11.1
116	14.72	6.31	.09	11.1
117	14.83	6.36	.09	11.1
118	14.95	6.41	.09	11.1
119	15.06	6.46	.09	11.1
120	15.18	6.51	.09	11.1
121	15.29	6.56	.09	11.1
122	15.41	6.61	.09	11.1
123	15.52	6.66	.09	11.1
124	15.64	6.71	.09	11.1
125	15.75	6.76	.09	11.1
126	15.87	6.81	.09	11.1
127	15.98	6.86	.09	11.1
128	16.10	6.91	.09	11.1
129	16.21	6.96	.09	11.1
130	16.33	7.01	.09	11.1
131	16.44	7.06	.09	11.1
132	16.56	7.11	.09	11.1
133	16.67	7.16	.09	11.1
134	16.79	7.21	.09	11.1
135	16.90	7.26	.09	11.1
136	17.02	7.31	.09	11.1
137	17.13	7.36	.09	11.1
138	17.25	7.41	.09	11.1
139	17.36	7.46	.09	11.1
140	17.48	7.51	.09	11.1
141	17.59	7.56	.09	11.1
142	17.71	7.61	.09	11.1
143	17.82	7.66	.09	11.1
144	17.94	7.71	.09	11.1
145	18.05	7.76	.09	11.1
146	18.17	7.81	.09	11.1
147	18.28	7.86	.09	11.1
148	18.40	7.91	.09	11.1
149	18.51	7.96	.09	11.1
150	18.63	8.01	.09	11.1
151	18.74	8.06	.09	11.1
152	18.86	8.11	.09	11.1
153	18.97	8.16	.09	11.1
154	19.09	8.21	.09	11.1
155	19.20	8.26	.09	11.1
156	19.32	8.31	.09	11.1
157	19.43	8.36	.09	11.1
158	19.55	8.41	.09	11.1
159	19.66	8.46	.09	11.1
160	19.78	8.51	.09	11.1
161	19.89	8.56	.09	11.1
162	20.01	8.61	.09	11.1
163	20.12	8.66	.09	11.1
164	20.24	8.71	.09	11.1
165	20.35	8.76	.09	11.1
166	20.47	8.81	.09	11.1
167	20.58	8.86	.09	11.1
168	20.70	8.91	.09	11.1
169	20.81	8.96	.09	11.1
170	20.93	9.01	.09	11.1
171	21.04	9.06	.09	11.1
172	21.16	9.11	.09	11.1
173	21.27	9.16	.09	11.1
174	21.39	9.21	.09	11.1
175	21.50	9.26	.09	11.1
176	21.62	9.31	.09	11.1
177	21.73	9.36	.09	11.1
178	21.85	9.41	.09	11.1
179	21.96	9.46	.09	11.1
180	22.08	9.51	.09	11.1
181	22.19	9.56	.09	11.1
182	22.31	9.61	.09	11.1
183	22.42	9.66	.09	11.1
184	22.54	9.71	.09	11.1
185	22.65	9.76	.09	11.1
186	22.77	9.81	.09	11.1
187	22.88	9.86	.09	11.1
188	22.99	9.91	.09	11.1
189	23.11	9.96	.09	11.1
190	23.22	10.01	.09	11.1
191	23.34	10.06	.09	11.1
192	23.45	10.11	.09	11.1
193	23.57	10.16	.09	11.1
194	23.68	10.21	.09	11.1
195	23.80	10.26	.09	11.1
196	23.91	10.31	.09	11.1
197	24.03	10.36	.09	11.1
198	24.14	10.41	.09	11.1
199	24.26	10.46	.09	11.1
200	24.37	10.51	.09	11.1
201	24.49	10.56	.09	11.1
202	24.60	10.61	.09	11.1
203	24.72	10.66	.09	11.1
204	24.83	10.71	.09	11.1
205	24.95	10.76	.09	11.1
206	25.06	10.81	.09	11.1
207	25.18	10.86	.09	11.1
208	25.29	10.91	.09	11.1
209	25.41	10.96	.09	11.1
210	25.52	11.01	.09	11.1
211	25.64	11.06	.09	11.1
212	25.75	11.11	.09	11.1
213	25.87	11.16	.09	11.1
214	25.98	11.21	.09	11.1
215	26.10	11.26	.09	11.1
216	26.21	11.31	.09	11.1
217	26.33	11.36	.09	11.1
218	26.44	11.41	.09	11.1
219	26.56	11.46	.09	11.1
220	26.67	11.51	.09	11.1
221	26.79	11.56	.09	11.1
222	26.90	11.61	.09	11.1
223	27.02	11.66	.09	11.1
224	27.13	11.71	.09	11.1
225	27.25	11.76	.09	11.1
226	27.36	11.81	.09	11.1
227	27.48	11.86	.09	11.1
228	27.59	11.91	.09	11.1
229	27.71	11.96	.09	11.1
230	27.82	12.01	.09	11.1
231	27.94	12.06	.09	11.1
232	28.05	12.11	.09	11.1
233	28.17	12.16	.09	11.1
234	28.28	12.21	.09	11.1
235	28.40	12.26	.09	11.1
236	28.51	12.31	.09	11.1
237	28.63	12.36	.09	11.1
238	28.74	12.41	.09	11.1
239	28.86	12.46	.09	11.1
240	28.97	12.51	.09	11.1
241	29.09	12.56	.09	11.1
242	29.20	12.61	.09	11.1
243	29.32	12.66	.09	11.1
244	29.43	12.71	.09	11.1
245	29.55	12.76	.09	11.1
246	29.66	12.81	.09	11.1
247	29.78	12.86	.09	11.1
248	29.89	12.91	.09	11.1
249	30.01	12.96	.09	11.1
250	30.12	13.01	.09	11.1
251	30.24	13.06	.09	11.1
252	30.35	13.11	.09	11.1
253	30.47	13.16	.09	11.1
254	30.58	13.21	.09	11.1
255	30.70	13.26	.09	11.1
256	30.81	13.31	.09	

NORMALIZED VELOCITY PROFILE 853305 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.46	.07	14.5
2	.73	.48	.07	14.2
3	1.01	.51	.07	13.7
4	1.30	.56	.06	11.7
5	1.59	.61	.07	11.1
6	1.88	.66	.06	11.1
7	2.17	.71	.09	11.1
8	2.46	.76	.09	11.0
9	2.75	.81	.08	11.0
10	3.04	.86	.07	11.0
11	3.33	.91	.07	11.0
12	3.62	.96	.07	11.0
13	3.91	.98	.07	11.0
14	4.20	.99	.06	6.9
15	4.49	.99	.06	6.9
16	4.78	.99	.06	6.9
17	5.07	.99	.06	6.9

NORMALIZED VELOCITY PROFILE 853321 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.30	.05	16.4
2	.76	.37	.05	16.0
3	1.01	.44	.05	15.5
4	1.27	.51	.05	15.0
5	1.52	.58	.05	14.5
6	1.78	.65	.05	14.0
7	2.03	.72	.05	13.5
8	2.29	.79	.05	13.0
9	2.54	.86	.05	12.5
10	2.80	.93	.05	12.0
11	3.05	.99	.05	11.5
12	3.31	.99	.05	11.0
13	3.56	.99	.05	10.5
14	3.82	.99	.05	10.0
15	4.07	.99	.05	9.5
16	4.33	.99	.05	9.0
17	4.58	.99	.05	8.5

NORMALIZED VELOCITY PROFILE 853322 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.44	.07	17.2
2	.73	.44	.07	16.6
3	1.01	.44	.07	16.0
4	1.30	.44	.07	16.4
5	1.59	.44	.09	17.9
6	1.88	.44	.09	18.3
7	2.17	.44	.10	18.1
8	2.46	.44	.10	16.6
9	2.75	.44	.09	14.3
10	3.04	.44	.09	13.3
11	3.33	.44	.10	13.3
12	3.62	.44	.09	11.1
13	3.91	.44	.07	9.9
14	4.20	.44	.07	8.7
15	4.49	.44	.07	8.7
16	4.78	.44	.07	7.7
17	5.07	.44	.07	7.5

NORMALIZED VELOCITY PROFILE 853323 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.41	.07	16.1
2	.73	.41	.07	15.6
3	1.01	.41	.07	15.0
4	1.27	.41	.07	15.0
5	1.52	.41	.08	15.0
6	1.78	.41	.08	14.5
7	2.03	.41	.08	14.0
8	2.29	.41	.09	13.5
9	2.54	.41	.10	13.0
10	2.80	.41	.09	12.5
11	3.05	.41	.09	12.0
12	3.31	.41	.09	11.5
13	3.56	.41	.09	11.0
14	3.82	.41	.08	11.0
15	4.07	.41	.08	11.0
16	4.33	.41	.07	7.0
17	4.58	.41	.06	7.0

NORMALIZED 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 (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.43	.07	17
2	10	.44	.08	17
3	15	.44	.08	17
4	20	.44	.09	17
5	25	.44	.09	17
6	30	.44	.09	18
7	35	.44	.10	18
8	40	.44	.10	18
9	45	.44	.10	18
10	50	.44	.09	18
11	55	.44	.09	18
12	60	.44	.08	18
13	65	.44	.08	18
14	70	.44	.08	18
15	75	.44	.08	18
16	80	.44	.07	18
17	85	.44	.07	18
18	90	.44	.06	18

NORMALIZED VELOCITY PROFILE B53325 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 (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	5	.43	.07	15
2	10	.44	.07	15
3	15	.44	.07	14
4	20	.44	.08	14
5	25	.44	.08	14
6	30	.44	.08	14
7	35	.44	.08	14
8	40	.44	.08	14
9	45	.44	.10	15
10	50	.44	.09	15
11	55	.44	.09	15
12	60	.44	.09	15
13	65	.44	.08	15
14	70	.44	.08	15
15	75	.44	.08	15
16	80	.44	.07	15
17	85	.44	.07	15
18	90	.44	.06	15

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.33	.07	17.7
2	.63	.66	.08	12.7
3	.92	.76	.08	12.4
4	1.01	.77	.08	11.8
5	1.06	.77	.08	11.0
6	1.06	.77	.08	10.7
7	1.06	.77	.07	8.8
8	1.06	.77	.07	8.8
9	1.06	.77	.07	8.8
10	1.06	.77	.07	8.8
11	1.06	.77	.07	8.8
12	1.06	.77	.07	8.8
13	1.06	.77	.07	8.8
14	1.06	.77	.07	8.8
15	1.06	.77	.07	8.8
16	1.06	.77	.07	8.8
17	1.06	.77	.07	8.8
18	1.06	.77	.07	8.8
19	1.06	.77	.07	8.8
20	1.06	.77	.07	8.8
21	1.06	.77	.07	8.8
22	1.06	.77	.07	8.8
23	1.06	.77	.07	8.8
24	1.06	.77	.07	8.8
25	1.06	.77	.07	8.8
26	1.06	.77	.07	8.8
27	1.06	.77	.07	8.8
28	1.06	.77	.07	8.8
29	1.06	.77	.07	8.8
30	1.06	.77	.07	8.8
31	1.06	.77	.07	8.8
32	1.06	.77	.07	8.8
33	1.06	.77	.07	8.8
34	1.06	.77	.07	8.8
35	1.06	.77	.07	8.8
36	1.06	.77	.07	8.8
37	1.06	.77	.07	8.8
38	1.06	.77	.07	8.8
39	1.06	.77	.07	8.8
40	1.06	.77	.07	8.8
41	1.06	.77	.07	8.8
42	1.06	.77	.07	8.8
43	1.06	.77	.07	8.8
44	1.06	.77	.07	8.8
45	1.06	.77	.07	8.8
46	1.06	.77	.07	8.8
47	1.06	.77	.07	8.8
48	1.06	.77	.07	8.8
49	1.06	.77	.07	8.8
50	1.06	.77	.07	8.8
51	1.06	.77	.07	8.8
52	1.06	.77	.07	8.8
53	1.06	.77	.07	8.8
54	1.06	.77	.07	8.8
55	1.06	.77	.07	8.8
56	1.06	.77	.07	8.8
57	1.06	.77	.07	8.8
58	1.06	.77	.07	8.8
59	1.06	.77	.07	8.8
60	1.06	.77	.07	8.8
61	1.06	.77	.07	8.8
62	1.06	.77	.07	8.8
63	1.06	.77	.07	8.8
64	1.06	.77	.07	8.8
65	1.06	.77	.07	8.8
66	1.06	.77	.07	8.8
67	1.06	.77	.07	8.8
68	1.06	.77	.07	8.8
69	1.06	.77	.07	8.8
70	1.06	.77	.07	8.8
71	1.06	.77	.07	8.8
72	1.06	.77	.07	8.8
73	1.06	.77	.07	8.8
74	1.06	.77	.07	8.8
75	1.06	.77	.07	8.8
76	1.06	.77	.07	8.8
77	1.06	.77	.07	8.8
78	1.06	.77	.07	8.8
79	1.06	.77	.07	8.8
80	1.06	.77	.07	8.8
81	1.06	.77	.07	8.8
82	1.06	.77	.07	8.8
83	1.06	.77	.07	8.8
84	1.06	.77	.07	8.8
85	1.06	.77	.07	8.8
86	1.06	.77	.07	8.8
87	1.06	.77	.07	8.8
88	1.06	.77	.07	8.8
89	1.06	.77	.07	8.8
90	1.06	.77	.07	8.8
91	1.06	.77	.07	8.8
92	1.06	.77	.07	8.8
93	1.06	.77	.07	8.8
94	1.06	.77	.07	8.8
95	1.06	.77	.07	8.8
96	1.06	.77	.07	8.8
97	1.06	.77	.07	8.8
98	1.06	.77	.07	8.8
99	1.06	.77	.07	8.8
100	1.06	.77	.07	8.8

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.05	28.7
2	.91	.11	.05	29.4
3	1.98	.22	.05	24.8
4	3.08	.42	.09	32.6
5	4.97	.54	.14	32.9
6	6.05	.63	.14	21.1
7	8.02	.73	.09	11.1
8	10.00	.80	.07	9.8
9	11.96	.85	.07	7.6
10	13.92	.89	.07	7.6
11	15.88	.90	.07	7.6

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.24	.11	45.7
2	.92	.25	.12	48.2
3	1.92	.28	.13	45.3
4	3.01	.34	.14	41.7
5	4.06	.40	.16	39.6
6	4.97	.48	.16	34.9
7	6.05	.53	.16	26.9
8	8.02	.64	.13	18.1
9	10.00	.74	.08	10.0
10	11.96	.81	.08	8.7
11	13.92	.87	.07	7.5

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.09	56.3
2	1.05	.19	.10	54.1
3	1.95	.23	.12	52.8
4	3.01	.32	.16	49.7
5	4.09	.44	.18	40.5
6	4.97	.54	.19	35.5
7	6.05	.63	.17	27.3
8	8.02	.76	.11	15.0
9	10.00	.85	.08	9.4
10	11.96	.89	.08	9.4
11	13.92	.90	.07	7.8

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)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	1.5	.22	.08	2.7
2	1.5	.22	.08	2.7
3	1.5	.22	.08	2.7
4	1.5	.22	.08	2.7
5	1.5	.22	.08	2.7
6	1.5	.22	.08	2.7
7	1.5	.22	.08	2.7
8	1.5	.22	.08	2.7
9	1.5	.22	.08	2.7
10	1.5	.22	.08	2.7
11	1.5	.22	.08	2.7

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)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	1.5	.26	.09	3.6
2	1.5	.26	.09	3.6
3	1.5	.26	.09	3.6
4	1.5	.26	.09	3.6
5	1.5	.26	.09	3.6
6	1.5	.26	.09	3.6
7	1.5	.26	.09	3.6
8	1.5	.26	.09	3.6
9	1.5	.26	.09	3.6
10	1.5	.26	.09	3.6
11	1.5	.26	.09	3.6

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)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	1.5	.15	.05	5.5
2	1.5	.15	.05	5.5
3	1.5	.15	.05	5.5
4	1.5	.15	.05	5.5
5	1.5	.15	.05	5.5
6	1.5	.15	.05	5.5
7	1.5	.15	.05	5.5
8	1.5	.15	.05	5.5
9	1.5	.15	.05	5.5
10	1.5	.15	.05	5.5
11	1.5	.15	.05	5.5

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)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	1.5	.12	.08	6.6
2	1.5	.12	.08	6.6
3	1.5	.12	.08	6.6
4	1.5	.12	.08	6.6
5	1.5	.12	.08	6.6
6	1.5	.12	.08	6.6
7	1.5	.12	.08	6.6
8	1.5	.12	.08	6.6
9	1.5	.12	.08	6.6
10	1.5	.12	.08	6.6
11	1.5	.12	.08	6.6

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.27	.11	3.9
2	1.01	.27	.11	4.9
3	2.00	.27	.11	5.4
4	3.00	.27	.11	5.9
5	4.00	.27	.11	6.4
6	6.00	.27	.11	7.4
7	7.97	.27	.11	8.4
8	9.91	.27	.11	9.4
9	11.90	.27	.11	10.4
10	13.91	.27	.11	11.4
11	15.94	.27	.11	12.4

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.29	.10	3.6
2	1.01	.29	.10	4.6
3	2.00	.29	.10	5.6
4	3.00	.29	.10	6.6
5	4.00	.29	.10	7.6
6	6.00	.29	.10	8.6
7	7.97	.29	.10	9.6
8	9.97	.29	.10	10.6
9	11.93	.29	.10	11.6
10	13.97	.29	.10	12.6
11	16.00	.29	.10	13.6

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.58	.08	14.3
2	1.01	.60	.10	15.8
3	2.00	.67	.09	17.9
4	3.00	.72	.08	19.7
5	4.00	.74	.08	21.3
6	6.00	.74	.08	23.3
7	7.97	.76	.08	25.3
8	9.90	.76	.07	27.3
9	11.90	.76	.07	29.3
10	13.91	.80	.07	31.3
11	15.94	.85	.07	33.4

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.05	28.7
2	1.01	.17	.05	29.4
3	2.00	.21	.05	30.8
4	3.00	.28	.09	32.6
5	4.00	.44	.14	33.9
6	6.00	.63	.14	35.3
7	7.97	.78	.09	36.8
8	9.90	.80	.07	38.4
9	11.90	.80	.07	39.2
10	13.91	.82	.07	40.3
11	16.11	.86	.07	41.6

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.22	.09	40.5
2	1.00	.22	.10	40.0
3	1.50	.22	.10	38.0
4	2.00	.22	.12	35.0
5	2.50	.22	.13	35.0
6	3.00	.22	.16	35.0
7	3.50	.22	.17	35.0
8	4.00	.22	.15	27.0
9	4.50	.22	.13	27.0
10	5.00	.22	.09	11.0
11	5.50	.22	.08	7.0

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.14	.08	54.7
2	1.00	.15	.08	53.8
3	1.50	.17	.09	52.8
4	2.00	.20	.10	50.8
5	2.50	.23	.13	44.7
6	3.00	.41	.17	41.2
7	3.50	.43	.18	32.8
8	4.00	.43	.13	17.7
9	4.50	.41	.09	10.0
10	5.00	.33	.08	9.0
11	5.50	.27	.07	7.6

NORMALIZED VELOCITY PROFILE B63203 REF. VEL. 31.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.23	.08	33.1
2	1.00	.23	.10	33.4
3	1.50	.23	.09	33.4
4	2.00	.23	.13	33.4
5	2.50	.23	.13	33.4
6	3.00	.23	.15	33.4
7	3.50	.23	.16	33.4
8	4.00	.23	.14	18.9
9	4.50	.23	.09	14.0
10	5.00	.23	.07	7.6
11	5.50	.23	.07	7.4

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.27	.11	42.6
2	1.00	.27	.11	37.1
3	1.50	.27	.13	37.7
4	2.00	.43	.15	33.6
5	2.50	.43	.15	31.8
6	3.00	.43	.16	23.8
7	3.50	.43	.16	23.8
8	4.00	.43	.12	16.1
9	4.50	.43	.10	11.9
10	5.00	.33	.08	7.9
11	5.50	.29	.07	7.6

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.23	.10	41.5
2	.62	.26	.11	40.7
3	.73	.29	.11	37.8
4	.86	.33	.13	40.3
5	.92	.33	.15	38.8
6	1.04	.36	.16	36.0
7	1.16	.36	.17	30.0
8	1.27	.37	.15	22.2
9	1.39	.37	.12	15.4
10	1.50	.34	.08	9.2
11	1.62	.30	.07	8.1

NORMALIZED VELOCITY PROFILE B63224 REF. VEL. 31.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.19	.09	50.2
2	.60	.21	.09	43.7
3	.70	.26	.12	47.4
4	.80	.31	.14	46.1
5	.91	.38	.15	39.7
6	1.04	.44	.16	36.8
7	1.16	.52	.17	33.3
8	1.27	.67	.15	22.7
9	1.39	.74	.13	18.1
10	1.50	.84	.10	11.5
11	1.62	.88	.07	8.4

NORMALIZED VELOCITY PROFILE B63205 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.24	.11	43.7
2	.62	.26	.11	41.5
3	.73	.29	.11	41.5
4	.86	.33	.13	41.5
5	.92	.33	.15	37.8
6	1.04	.36	.16	36.0
7	1.16	.36	.17	30.0
8	1.27	.37	.15	22.2
9	1.39	.37	.12	15.4
10	1.50	.34	.08	9.2
11	1.62	.30	.07	7.6

NORMALIZED VELOCITY PROFILE B63225 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.30	.11	36.0
2	.60	.31	.12	37.7
3	.70	.35	.13	36.8
4	.80	.40	.14	33.3
5	.91	.45	.15	31.0
6	1.04	.55	.16	28.2
7	1.16	.67	.15	22.8
8	1.27	.76	.14	17.8
9	1.39	.80	.12	15.4
10	1.50	.87	.10	11.5
11	1.62	.87	.07	7.9



NORMALIZED VELOCITY PROFILE B63301 REF. VEL. 30.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.55	.08	15.1
2	45	.70	.10	12.5
3	40	.77	.09	12.2
4	35	.77	.08	11.1
5	30	.77	.08	11.1
6	25	.77	.08	11.1
7	20	.77	.08	10.0
8	15	.80	.08	10.0
9	10	.88	.08	10.0
10	5	.88	.08	10.0
11	0	.99	.07	8.7
12	0	.99	.06	8.6
13	0	.99	.06	8.6
14	0	.99	.06	8.6
15	0	.99	.06	8.6
16	0	.99	.06	8.6
17	0	.99	.06	8.6
18	0	.99	.06	8.6
19	0	.99	.06	8.6
20	0	.99	.06	8.6
21	0	.99	.06	8.6
22	0	.99	.06	8.6
23	0	.99	.06	8.6
24	0	.99	.06	8.6
25	0	.99	.06	8.6
26	0	.99	.06	8.6
27	0	.99	.06	8.6
28	0	.99	.06	8.6
29	0	.99	.06	8.6
30	0	.99	.06	8.6
31	0	.99	.06	8.6
32	0	.99	.06	8.6
33	0	.99	.06	8.6
34	0	.99	.06	8.6
35	0	.99	.06	8.6
36	0	.99	.06	8.6
37	0	.99	.06	8.6
38	0	.99	.06	8.6
39	0	.99	.06	8.6
40	0	.99	.06	8.6
41	0	.99	.06	8.6
42	0	.99	.06	8.6
43	0	.99	.06	8.6
44	0	.99	.06	8.6
45	0	.99	.06	8.6
46	0	.99	.06	8.6
47	0	.99	.06	8.6
48	0	.99	.06	8.6
49	0	.99	.06	8.6
50	0	.99	.06	8.6

NORMALIZED VELOCITY PROFILE B63321 REF. VEL. 30.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.09	.05	54.7
2	45	.12	.06	51.4
3	40	.16	.07	44.1
4	35	.20	.11	41.0
5	30	.23	.16	38.8
6	25	.27	.23	35.3
7	20	.30	.33	33.5
8	15	.32	.49	31.4
9	10	.32	.88	29.4
10	5	.32	.88	29.4
11	0	.36	.88	28.9

NORMALIZED VELOCITY PROFILE B63302 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.55	.08	15.2
2	45	.70	.10	12.5
3	40	.77	.09	12.2
4	35	.77	.08	11.1
5	30	.77	.08	11.1
6	25	.77	.08	10.0
7	20	.80	.08	10.0
8	15	.88	.08	10.0
9	10	.88	.08	10.0
10	5	.99	.07	8.7
11	0	.99	.07	8.7

NORMALIZED VELOCITY PROFILE B63322 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.25	.10	38.5
2	45	.33	.13	35.1
3	40	.40	.19	31.6
4	35	.46	.27	28.7
5	30	.50	.37	26.6
6	25	.53	.50	25.0
7	20	.55	.66	23.5
8	15	.55	.99	21.5
9	10	.55	.99	21.5
10	5	.57	.99	21.5
11	0	.57	.99	21.5

NORMALIZED VELOCITY PROFILE B63303 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.51	.54	.07	13.6
2	.99	.60	.07	11.9
3	.99	.63	.08	12.0
4	.99	.66	.08	12.2
5	.99	.71	.08	11.4
6	.00	.75	.08	11.7
7	.99	.79	.08	10.5
8	.99	.79	.08	9.9
9	.99	.82	.08	10.3
10	11.99	.83	.07	8.8
11	15.99	.85	.07	8.4

NORMALIZED VELOCITY PROFILE B63323 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.28	.10	34.4
2	.98	.31	.10	32.1
3	2.00	.36	.12	33.7
4	2.98	.44	.14	31.6
5	3.98	.54	.14	26.0
6	4.98	.63	.14	26.1
7	6.00	.69	.13	25.6
8	7.98	.76	.10	13.0
9	9.98	.80	.08	10.3
10	11.98	.81	.08	9.5
11	15.99	.86	.08	9.0

NORMALIZED VELOCITY PROFILE B63304 REF. VEL. 31.2 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.51	.50	.08	15.2
2	.99	.57	.08	13.3
3	2.00	.60	.08	13.7
4	3.00	.59	.09	15.0
5	3.97	.71	.09	13.2
6	4.98	.75	.09	12.0
7	6.01	.78	.08	10.5
8	7.98	.78	.08	9.9
9	9.99	.81	.08	9.8
10	12.00	.84	.08	9.2
11	16.00	.85	.08	9.0

NORMALIZED VELOCITY PROFILE B63324 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.36	.09	26.3
2	.98	.40	.11	27.2
3	1.99	.44	.12	26.0
4	2.98	.47	.12	25.9
5	3.99	.58	.15	25.6
6	4.99	.64	.15	22.9
7	6.01	.69	.14	20.9
8	7.99	.74	.13	17.2
9	10.00	.82	.11	12.8
10	12.01	.86	.09	10.4
11	16.01	.89	.08	9.1

NORMALIZED VELOCITY PROFILE B63305 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.56	.08	14.0
2	.98	.61	.08	12.0
3	1.47	.65	.09	12.4
4	1.96	.71	.09	12.7
5	2.45	.74	.09	11.7
6	2.94	.76	.09	11.7
7	3.43	.79	.09	11.4
8	3.92	.80	.08	9.8
9	4.41	.82	.08	9.1
10	4.90	.84	.08	8.9
11	5.39	.86	.07	8.6

NORMALIZED VELOCITY PROFILE B63325 REF. VEL. 31.3 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.41	.10	2.1
2	.99	.43	.11	2.0
3	1.48	.43	.12	2.0
4	1.97	.43	.13	2.4
5	2.46	.46	.13	2.2
6	2.95	.46	.13	2.2
7	3.44	.47	.14	2.1
8	3.93	.47	.13	1.8
9	4.42	.48	.11	1.5
10	4.91	.48	.09	1.1
11	5.40	.48	.07	0.8

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.56	.08	13.8
2	.99	.60	.08	14.4
3	.99	.67	.08	12.1
4	.99	.69	.08	11.1
5	.01	.74	.08	11.9
6	.00	.77	.08	10.8
7	.00	.77	.08	10.2
8	.01	.77	.08	10.2
9	.01	.81	.08	9.2
10	.97	.81	.08	9.4
11	.97	.86	.07	8.4

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.56	.08	14.8
2	.98	.59	.09	14.2
3	.99	.64	.08	12.8
4	.07	.64	.10	15.9
5	.14	.75	.08	11.0
6	.07	.79	.08	10.0
7	.05	.80	.08	9.5
8	.05	.83	.08	9.4
9	.03	.84	.07	8.7
10	.01	.83	.07	8.4
11	.99	.86	.07	8.3

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.52	.56	.07	13.2
2	.99	.60	.07	12.1
3	.99	.67	.07	11.1
4	.99	.69	.08	11.9
5	.01	.74	.08	10.8
6	.00	.77	.08	10.2
7	.00	.77	.08	10.2
8	.01	.77	.08	10.2
9	.01	.81	.08	9.2
10	.97	.81	.08	9.4
11	.98	.86	.07	8.4

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.51	.07	14.1
2	.00	.57	.07	12.0
3	.99	.60	.07	11.5
4	.98	.59	.07	11.8
5	.99	.71	.09	12.7
6	.00	.74	.08	10.9
7	.00	.74	.08	10.0
8	.01	.78	.08	10.1
9	.97	.80	.08	9.8
10	.98	.81	.07	8.4
11	16.00	.85	.07	8.7

NORMALIZED VELOCITY PROFILE 863405 REF. VEL. 31.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.4	.54	.08	14.5
2	.6	.57	.07	12.7
3	.8	.63	.07	11.7
4	1.1	.69	.09	12.9
5	1.2	.71	.09	11.8
6	1.3	.73	.08	11.4
7	1.4	.75	.08	10.7
8	1.5	.79	.08	9.9
9	1.7	.79	.08	9.9
10	10.01	.81	.08	9.9
11	12.10	.83	.08	9.2
11	15.98	.87	.07	8.5

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.49	.220	.04	20.4
2	.94	.220	.04	22.7
3	1.39	.170	.04	22.7
4	1.84	.117	.04	22.7
5	2.29	.065	.04	22.7
6	2.74	.054	.04	22.7
7	3.19	.043	.04	22.7
8	3.64	.032	.04	22.7
9	4.09	.021	.04	22.7
10	4.54	.010	.04	22.7
11	5.01	.007	.04	22.7

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.10	.04	39.1
2	.94	.12	.05	40.9
3	1.39	.15	.06	43.4
4	1.84	.10	.04	48.9
5	2.29	.14	.05	50.6
6	2.74	.17	.05	53.5
7	3.19	.15	.05	55.1
8	3.64	.08	.05	58.8
9	4.09	.07	.05	60.6
10	4.54	.08	.05	62.4
11	5.01	.07	.05	64.2

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.47	.17	.05	28.0
2	.94	.23	.06	27.7
3	1.41	.32	.10	27.7
4	1.88	.49	.13	27.7
5	2.35	.76	.17	27.7
6	2.82	1.17	.22	27.7
7	3.29	1.58	.27	27.7
8	3.76	2.00	.32	27.7
9	4.23	2.41	.37	27.7
10	4.70	2.82	.42	27.7
11	5.17	3.23	.47	27.7

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/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.49	.16	.06	39.9
2	.94	.20	.08	42.2
3	1.39	.25	.10	41.7
4	1.84	.30	.14	43.8
5	2.29	.51	.15	45.8
6	2.74	.65	.13	47.8
7	3.19	.75	.10	49.8
8	3.64	.79	.08	51.8
9	4.09	.79	.07	53.8
10	4.54	.83	.07	55.8
11	5.01	.85	.08	57.8

NORMALIZED VELOCITY PROFILE B63101 REF. VEL. 31.0 FPS

TEST ZONE = B WIND DIRECTION = NORTH  
 TIME OF DAY = NOON POSITION OF PROFILE = 1  
 FENCE CONFIGURATION = 15FT AT 52FT, 60% POROSITY

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URNS (U/UREF)	TURB INT (PERCENT)
1	.90	.11	.08	0
2	.94	.11	.08	0
3	.98	.11	.08	0
4	1.02	.11	.08	0
5	1.06	.11	.08	0
6	1.10	.11	.08	0
7	1.14	.11	.08	0
8	1.18	.11	.08	0
9	1.22	.11	.08	0
10	1.26	.11	.08	0
11	1.30	.11	.08	0
12	1.34	.11	.08	0
13	1.38	.11	.08	0
14	1.42	.11	.08	0
15	1.46	.11	.08	0
16	1.50	.11	.08	0
17	1.54	.11	.08	0
18	1.58	.11	.08	0
19	1.62	.11	.08	0
20	1.66	.11	.08	0
21	1.70	.11	.08	0
22	1.74	.11	.08	0
23	1.78	.11	.08	0
24	1.82	.11	.08	0
25	1.86	.11	.08	0
26	1.90	.11	.08	0
27	1.94	.11	.08	0
28	1.98	.11	.08	0
29	2.02	.11	.08	0
30	2.06	.11	.08	0
31	2.10	.11	.08	0
32	2.14	.11	.08	0
33	2.18	.11	.08	0
34	2.22	.11	.08	0
35	2.26	.11	.08	0
36	2.30	.11	.08	0
37	2.34	.11	.08	0
38	2.38	.11	.08	0
39	2.42	.11	.08	0
40	2.46	.11	.08	0
41	2.50	.11	.08	0
42	2.54	.11	.08	0
43	2.58	.11	.08	0
44	2.62	.11	.08	0
45	2.66	.11	.08	0
46	2.70	.11	.08	0
47	2.74	.11	.08	0
48	2.78	.11	.08	0
49	2.82	.11	.08	0
50	2.86	.11	.08	0
51	2.90	.11	.08	0
52	2.94	.11	.08	0
53	2.98	.11	.08	0
54	3.02	.11	.08	0
55	3.06	.11	.08	0
56	3.10	.11	.08	0
57	3.14	.11	.08	0
58	3.18	.11	.08	0
59	3.22	.11	.08	0
60	3.26	.11	.08	0
61	3.30	.11	.08	0
62	3.34	.11	.08	0
63	3.38	.11	.08	0
64	3.42	.11	.08	0
65	3.46	.11	.08	0
66	3.50	.11	.08	0
67	3.54	.11	.08	0
68	3.58	.11	.08	0
69	3.62	.11	.08	0
70	3.66	.11	.08	0
71	3.70	.11	.08	0
72	3.74	.11	.08	0
73	3.78	.11	.08	0
74	3.82	.11	.08	0
75	3.86	.11	.08	0
76	3.90	.11	.08	0
77	3.94	.11	.08	0
78	3.98	.11	.08	0
79	4.02	.11	.08	0
80	4.06	.11	.08	0
81	4.10	.11	.08	0
82	4.14	.11	.08	0
83	4.18	.11	.08	0
84	4.22	.11	.08	0
85	4.26	.11	.08	0
86	4.30	.11	.08	0
87	4.34	.11	.08	0
88	4.38	.11	.08	0
89	4.42	.11	.08	0
90	4.46	.11	.08	0
91	4.50	.11	.08	0
92	4.54	.11	.08	0
93	4.58	.11	.08	0
94	4.62	.11	.08	0
95	4.66	.11	.08	0
96	4.70	.11	.08	0
97	4.74	.11	.08	0
98	4.78	.11	.08	0
99	4.82	.11	.08	0
100	4.86	.11	.08	0

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.14	.05	.00
2	1.01	.16	.05	.00
3	1.51	.21	.06	.00
4	2.01	.29	.08	.00
5	3.01	.42	.11	.00
6	4.01	.61	.15	.00
7	6.01	.74	.19	.00
8	8.01	.88	.23	.00
9	10.01	.94	.26	.00
10	12.01	.97	.27	.00
11	16.02	.97	.27	.00

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.33	.09	.00
2	1.01	.39	.10	.00
3	1.51	.47	.13	.00
4	2.01	.57	.14	.00
5	3.01	.61	.14	.00
6	4.01	.69	.15	.00
7	6.01	.72	.16	.00
8	8.01	.76	.17	.00
9	10.01	.81	.18	.00
10	12.01	.83	.18	.00
11	16.01	.85	.19	.00

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.26	.11	.00
2	1.01	.30	.12	.00
3	1.51	.36	.13	.00
4	2.01	.40	.14	.00
5	3.01	.51	.16	.00
6	4.01	.61	.18	.00
7	6.01	.75	.21	.00
8	8.01	.80	.22	.00
9	10.01	.83	.23	.00
10	12.01	.84	.23	.00
11	16.02	.86	.24	.00

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.46	.09	.00
2	1.00	.47	.09	.00
3	1.51	.47	.10	.00
4	2.01	.57	.13	.00
5	3.01	.63	.14	.00
6	4.01	.66	.15	.00
7	6.01	.73	.16	.00
8	8.01	.79	.17	.00
9	10.01	.83	.18	.00
10	12.01	.84	.18	.00
11	16.02	.87	.19	.00



**NORMALIZED VELOCITY PROFILE A13125 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)	U/URFN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.49	.09	18.7
2	.75	.51	.09	17.1
3	1.00	.54	.10	15.6
4	1.25	.56	.10	14.2
5	1.50	.57	.11	12.8
6	1.75	.58	.11	11.4
7	2.00	.59	.11	10.0
8	2.25	.60	.11	8.6
9	2.50	.61	.11	7.2
10	2.75	.62	.11	5.8
11	3.00	.64	.07	4.4

**NORMALIZED VELOCITY PROFILE A23121 REF. VEL. 29.1 FPS**

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

DATA POINT	HEIGHT (INCHES)	U/URFN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.20	.05	4.6
2	.75	.20	.05	4.0
3	1.00	.22	.06	3.4
4	1.25	.23	.06	2.8
5	1.50	.24	.06	2.2
6	1.75	.25	.06	1.6
7	2.00	.26	.06	1.0
8	2.25	.27	.06	0.4
9	2.50	.28	.07	0.0
10	2.75	.28	.07	0.0
11	3.00	.28	.07	0.0

**NORMALIZED VELOCITY PROFILE A23122 REF. VEL. 29.3 FPS**

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

DATA POINT	HEIGHT (INCHES)	U/URFN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.12	.05	43.2
2	.75	.15	.08	50.6
3	1.00	.20	.10	49.6
4	1.25	.26	.12	47.5
5	1.50	.37	.15	44.4
6	1.75	.54	.16	30.6
7	2.00	.65	.21	21.5
8	2.25	.82	.28	10.0
9	2.50	.84	.37	7.7
10	2.75	.84	.37	7.7
11	3.00	.84	.37	7.7

**NORMALIZED VELOCITY PROFILE A23123 REF. VEL. 29.3 FPS**

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

DATA POINT	HEIGHT (INCHES)	U/URFN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.06	44.7
2	1.00	.16	.07	46.3
3	1.50	.21	.10	47.5
4	2.00	.30	.14	46.9
5	2.50	.43	.15	35.2
6	3.00	.59	.15	25.7
7	3.50	.71	.13	17.1
8	4.00	.82	.08	9.4
9	4.50	.82	.07	8.8
10	5.00	.83	.07	8.8
11	5.50	.85	.07	8.6

NORMALIZED VELOCITY PROFILE A23124 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = WSW  
 TIME OF DAY = NOON 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	.34	.07	21.6
2	55	.35	.07	20.6
3	60	.36	.08	22.1
4	65	.42	.10	24.0
5	70	.50	.12	23.1
6	75	.58	.12	24.3
7	80	.66	.12	27.6
8	85	.74	.10	24.0
9	90	.80	.08	20.4
10	95	.88	.07	18.1
11	100	.93	.07	16.2

NORMALIZED VELOCITY PROFILE A23125 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = WSW  
 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	50	.34	.07	21.6
2	55	.35	.07	20.6
3	60	.36	.08	22.1
4	65	.42	.10	24.0
5	70	.50	.12	23.1
6	75	.58	.12	24.3
7	80	.66	.12	27.6
8	85	.74	.10	24.0
9	90	.80	.08	20.4
10	95	.88	.07	18.1
11	100	.93	.07	16.2

NORMALIZED VELOCITY PROFILE A33101 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SW  
 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	.50	.07	11.48
2	55	.51	.07	11.48
3	60	.54	.09	11.48
4	65	.58	.11	11.48
5	70	.63	.11	11.48
6	75	.69	.11	11.48
7	80	.77	.11	11.48
8	85	.80	.11	11.48
9	90	.87	.11	11.48
10	95	.93	.11	11.48
11	100	.99	.11	11.48
12	105	1.00	.11	11.48
13	110	1.00	.11	11.48
14	115	1.00	.11	11.48
15	120	1.00	.11	11.48
16	125	1.00	.11	11.48
17	130	1.00	.11	11.48
18	135	1.00	.11	11.48
19	140	1.00	.11	11.48
20	145	1.00	.11	11.48
21	150	1.00	.11	11.48
22	155	1.00	.11	11.48
23	160	1.00	.11	11.48
24	165	1.00	.11	11.48
25	170	1.00	.11	11.48
26	175	1.00	.11	11.48
27	180	1.00	.11	11.48
28	185	1.00	.11	11.48
29	190	1.00	.11	11.48
30	195	1.00	.11	11.48
31	200	1.00	.11	11.48
32	205	1.00	.11	11.48
33	210	1.00	.11	11.48
34	215	1.00	.11	11.48
35	220	1.00	.11	11.48
36	225	1.00	.11	11.48
37	230	1.00	.11	11.48
38	235	1.00	.11	11.48
39	240	1.00	.11	11.48
40	245	1.00	.11	11.48
41	250	1.00	.11	11.48
42	255	1.00	.11	11.48
43	260	1.00	.11	11.48
44	265	1.00	.11	11.48
45	270	1.00	.11	11.48
46	275	1.00	.11	11.48
47	280	1.00	.11	11.48
48	285	1.00	.11	11.48
49	290	1.00	.11	11.48
50	295	1.00	.11	11.48
51	300	1.00	.11	11.48
52	305	1.00	.11	11.48
53	310	1.00	.11	11.48
54	315	1.00	.11	11.48
55	320	1.00	.11	11.48
56	325	1.00	.11	11.48
57	330	1.00	.11	11.48
58	335	1.00	.11	11.48
59	340	1.00	.11	11.48
60	345	1.00	.11	11.48
61	350	1.00	.11	11.48
62	355	1.00	.11	11.48
63	360	1.00	.11	11.48
64	365	1.00	.11	11.48
65	370	1.00	.11	11.48
66	375	1.00	.11	11.48
67	380	1.00	.11	11.48
68	385	1.00	.11	11.48
69	390	1.00	.11	11.48
70	395	1.00	.11	11.48
71	400	1.00	.11	11.48
72	405	1.00	.11	11.48
73	410	1.00	.11	11.48
74	415	1.00	.11	11.48
75	420	1.00	.11	11.48
76	425	1.00	.11	11.48
77	430	1.00	.11	11.48
78	435	1.00	.11	11.48
79	440	1.00	.11	11.48
80	445	1.00	.11	11.48
81	450	1.00	.11	11.48
82	455	1.00	.11	11.48
83	460	1.00	.11	11.48
84	465	1.00	.11	11.48
85	470	1.00	.11	11.48
86	475	1.00	.11	11.48
87	480	1.00	.11	11.48
88	485	1.00	.11	11.48
89	490	1.00	.11	11.48
90	495	1.00	.11	11.48
91	500	1.00	.11	11.48
92	505	1.00	.11	11.48
93	510	1.00	.11	11.48
94	515	1.00	.11	11.48
95	520	1.00	.11	11.48
96	525	1.00	.11	11.48
97	530	1.00	.11	11.48
98	535	1.00	.11	11.48
99	540	1.00	.11	11.48
100	545	1.00	.11	11.48
101	550	1.00	.11	11.48
102	555	1.00	.11	11.48
103	560	1.00	.11	11.48
104	565	1.00	.11	11.48
105	570	1.00	.11	11.48
106	575	1.00	.11	11.48
107	580	1.00	.11	11.48
108	585	1.00	.11	11.48
109	590	1.00	.11	11.48
110	595	1.00	.11	11.48
111	600	1.00	.11	11.48
112	605	1.00	.11	11.48
113	610	1.00	.11	11.48
114	615	1.00	.11	11.48
115	620	1.00	.11	11.48
116	625	1.00	.11	11.48
117	630	1.00	.11	11.48
118	635	1.00	.11	11.48
119	640	1.00	.11	11.48
120	645	1.00	.11	11.48
121	650	1.00	.11	11.48
122	655	1.00	.11	11.48
123	660	1.00	.11	11.48
124	665	1.00	.11	11.48
125	670	1.00	.11	11.48
126	675	1.00	.11	11.48
127	680	1.00	.11	11.48
128	685	1.00	.11	11.48
129	690	1.00	.11	11.48
130	695	1.00	.11	11.48
131	700	1.00	.11	11.48
132	705	1.00	.11	11.48
133	710	1.00	.11	11.48
134	715	1.00	.11	11.48
135	720	1.00	.11	11.48
136	725	1.00	.11	11.48
137	730	1.00	.11	11.48
138	735	1.00	.11	11.48
139	740	1.00	.11	11.48
140	745	1.00	.11	11.48
141	750	1.00	.11	11.48
142	755	1.00	.11	11.48
143	760	1.00	.11	11.48
144	765	1.00	.11	11.48
145	770	1.00	.11	11.48
146	775	1.00	.11	11.48
147	780	1.00	.11	11.48
148	785	1.00	.11	11.48
149	790	1.00	.11	11.48
150	795	1.00	.11	11.48
151	800	1.00	.11	11.48
152	805	1.00	.11	11.48
153	810	1.00	.11	11.48
154	815	1.00	.11	11.48
155	820	1.00	.11	11.48
156	825	1.00	.11	11.48
157	830	1.00	.11	11.48
158	835	1.00	.11	11.48
159	840	1.00	.11	11.48
160	845	1.00	.11	11.48
161	850	1.00	.11	11.48
162	855	1.00	.11	11.48
163	860	1.00	.11	11.48
164	865	1.00	.11	11.48
165	870	1.00	.11	11.48
166	875	1.00	.11	11.48
167	880	1.00	.11	11.48
168	885	1.00	.11	11.48
169	890	1.00	.11	11.48
170	895	1.00	.11	11.48
171	900	1.00	.11	11.48
172	905	1.00	.11	11.48
173	910	1.00	.11	11.48
174	915	1.00	.11	11.48
175	920	1.00	.11	11.48
176	925	1.00	.11	11.48
177	930	1.00	.11	11.48
178	935	1.00	.11	11.48
179	940	1.00	.11	11.48
180	945	1.00	.11	11.48
181	950	1.00	.11	11.48
182	955	1.00	.11	11.48
183	960	1.00	.11	11.48
184	965	1.00	.11	11.48
185	970	1.00	.11	11.48
186	975	1.00	.11	11.48
187	980	1.00	.11	11.48
188	985	1.00	.11	11.48
189	990	1.00	.11	11.48
190	995	1.00	.11	11.48
191	1000	1.00	.11	11.48
192	1005	1.00	.11	11.48
193	1010	1.00	.11	11.48
194	1015	1.00	.11	11.48
195	1020	1.00	.11	11.48
196	1025	1.00	.11	11.48
197	1030	1.00	.11	11.48
198	1035	1.00	.11	11.48
199	1040	1.00	.11	11.48
200	1045	1.00	.11	11.48
201	1050	1.00	.11	11.48
202	1055	1.00	.11	11.48
203	1060	1.00	.11	11.48
204	1065	1.00	.11	11.48
205	1070	1.00	.11	11.48
206	1075	1.00	.11	11.48
207	1080	1.00	.11	11.48
208	1085	1.00	.11	11.48
209	1090	1.00	.11	11.48
210	1095	1.00	.11	11.48
211	1100	1.00	.11	11.48
212	1105	1.00	.11	11.48
213	1110	1.00	.11	11.48
214	1115	1.00	.11	11.48
215	1120	1.00	.11	11.48
216	1125	1.00	.11	11.48
217	1130	1.00	.11	11.48
218	1135	1.00	.11	11.48
219	1140	1.00	.11	11.48
220	1145	1.00	.11	11.48
221	1150	1.00	.11	11.48
222	1155	1.00	.11	11.48
223	1160	1.00	.11	11.48
224	1165	1.00	.11	11.48
225	1170	1.00	.11	11.48
226	1175	1.00	.11	11.48
227	1180	1.00	.11	11.48
228	1185	1.00	.11	11.48
229	1190	1.00	.11	11.48
230	1195	1.00	.11	11.48

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.46	.07	16.2
2	.99	.44	.07	15.8
3	.99	.44	.08	16.5
4	.99	.44	.08	14.9
5	.99	.44	.10	16.7
6	.99	.44	.12	20.6
7	7.0	.66	.14	11.1
8	7.0	.66	.10	11.9
9	7.0	.66	.07	8.9
10	7.0	.66	.07	7.6
11	6.0	.62	.07	7.6

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.44	.07	15.2
2	1.00	.46	.06	12.5
3	2.03	.41	.05	13.4
4	4.99	.41	.06	13.4
5	4.00	.33	.08	16.0
6	3.00	.63	.10	13.4
7	6.00	.70	.10	13.4
8	8.01	.78	.09	11.1
9	10.01	.83	.08	8.9
10	8.03	.88	.08	7.8
11	6.03	.89	.06	7.8

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.41	.06	12.4
2	.99	.44	.05	12.1
3	.99	.42	.05	12.5
4	.99	.40	.06	12.8
5	.99	.40	.08	18.2
6	.99	.43	.09	19.2
7	7.4	.66	.10	13.2
8	7.4	.66	.10	13.2
9	7.4	.66	.09	11.2
10	6.0	.62	.07	8.4
11	6.0	.60	.07	7.3

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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.09	.04	44.3
2	1.04	.09	.04	46.9
3	2.01	.11	.06	49.0
4	3.01	.17	.08	46.7
5	4.01	.34	.14	41.4
6	4.99	.62	.15	24.9
7	6.03	.80	.10	12.5
8	7.99	.83	.07	8.7
9	10.00	.84	.07	8.0
10	12.02	.83	.07	7.9
11	15.99	.87	.07	8.1

NORMALIZED VELOCITY PROFILE A33122 REF. VEL. 28.3 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	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.12	.05	40
2	1.00	.12	.05	40
3	1.50	.12	.05	40
4	2.00	.12	.05	40
5	2.50	.12	.05	40
6	3.00	.12	.05	40
7	3.50	.12	.05	40
8	4.00	.12	.05	40
9	4.50	.12	.05	40
10	5.00	.12	.05	40
11	16.01	.07	.06	70

NORMALIZED VELOCITY PROFILE A33123 REF. VEL. 28.9 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	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.15	.05	40
2	1.00	.15	.05	40
3	1.50	.15	.05	40
4	2.00	.15	.05	40
5	2.50	.15	.05	40
6	3.00	.15	.05	40
7	3.50	.15	.05	40
8	4.00	.15	.05	40
9	4.50	.15	.05	40
10	5.00	.15	.05	40
11	16.00	.05	.06	70

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	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.17	.04	40
2	1.00	.17	.04	40
3	1.50	.17	.04	40
4	2.00	.17	.04	40
5	2.50	.17	.04	40
6	3.00	.17	.04	40
7	3.50	.17	.04	40
8	4.00	.17	.04	40
9	4.50	.17	.04	40
10	5.00	.17	.04	40
11	16.00	.09	.04	70

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	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.21	.04	40
2	1.00	.21	.04	40
3	1.50	.21	.04	40
4	2.00	.21	.04	40
5	2.50	.21	.04	40
6	3.00	.21	.04	40
7	3.50	.21	.04	40
8	4.00	.21	.04	40
9	4.50	.21	.04	40
10	5.00	.21	.04	40
11	15.00	.08	.04	70

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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.52	.07	.03	42.0
2	.96	.09	.04	44.7
3	1.40	.17	.09	53.0
4	1.84	.28	.14	37.0
5	2.28	.41	.15	23.8
6	2.72	.76	.11	14.1
7	3.16	.88	.08	10.4
8	3.60	.92	.08	9.9
9	4.04	.92	.08	9.6
10	4.48	.88	.07	8.9
11	4.92	.86	.08	8.9

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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.53	.07	.03	39.6
2	1.05	.08	.03	41.8
3	2.00	.11	.06	37.9
4	2.96	.17	.12	34.6
5	3.91	.24	.16	41.1
6	4.87	.31	.16	27.3
7	5.80	.37	.12	15.2
8	6.71	.41	.07	9.1
9	7.60	.41	.08	10.0
10	8.48	.38	.08	9.4
11	9.36	.37	.08	8.8

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.21	.06	25.3
2	.99	.21	.06	25.3
3	1.48	.21	.06	25.3
4	1.97	.21	.06	25.3
5	2.46	.21	.06	25.3
6	2.95	.21	.06	25.3
7	3.44	.21	.06	25.3
8	3.93	.21	.06	25.3
9	4.42	.21	.06	25.3
10	9.99	.21	.06	25.3
11	15.00	.21	.06	25.3

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.51	.14	.04	30.8
2	.97	.16	.05	31.1
3	1.96	.16	.05	31.1
4	2.97	.16	.05	31.1
5	3.98	.16	.05	31.1
6	4.99	.16	.05	31.1
7	6.00	.16	.05	31.1
8	7.01	.16	.05	31.1
9	8.02	.16	.05	31.1
10	11.99	.16	.05	31.1
11	15.99	.16	.05	31.1

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.49	.17	.04	25.3
2	.98	.17	.04	25.3
3	1.47	.17	.04	25.3
4	1.96	.17	.04	25.3
5	2.45	.17	.04	25.3
6	2.94	.17	.04	25.3
7	3.43	.17	.04	25.3
8	3.92	.17	.04	25.3
9	4.41	.17	.04	25.3
10	9.99	.17	.04	25.3
11	15.99	.17	.04	25.3

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.04	30.3
2	.98	.15	.04	29.8
3	1.99	.18	.06	31.7
4	2.98	.27	.11	39.8
5	3.99	.38	.16	45.5
6	4.99	.50	.23	50.5
7	5.99	.72	.33	54.5
8	6.01	.81	.39	57.5
9	7.02	1.03	.50	60.5
10	12.00	1.66	.86	77.5
11	16.00	2.88	1.46	85.5

NORMALIZED VELOCITY PROFILE #43125 REF. VEL. 29.5 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	24.8
2	1.01	.17	.05	28.3
3	1.50	.23	.11	48.3
4	2.01	.43	.14	34.3
5	2.50	.46	.15	32.6
6	3.01	.75	.14	24.3
7	3.50	.79	.12	17.2
8	4.01	.83	.08	10.6
9	4.50	.85	.07	8.3
10	5.01	.77	.07	7.3
11	5.50	.60	.06	7.2

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.74	.10	13.0
2	1.00	.77	.10	12.0
3	1.50	.77	.10	12.0
4	2.00	.77	.10	12.0
5	2.50	.77	.09	12.0
6	3.00	.77	.10	12.0
7	3.50	.77	.10	12.0
8	4.00	.77	.10	12.0
9	4.50	.77	.09	12.0
10	5.00	.77	.09	11.8
11	5.50	.77	.08	11.8
12	6.00	.77	.08	11.8
13	6.50	.77	.08	11.8
14	7.00	.77	.08	11.8
15	7.50	.77	.07	11.8
16	8.00	.77	.07	11.8

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.25	.09	36.5
2	1.00	.22	.09	40.9
3	1.50	.22	.09	52.0
4	2.00	.22	.08	58.0
5	2.50	.22	.09	61.0
6	3.00	.22	.16	39.9
7	3.50	.22	.15	39.9
8	4.00	.22	.14	28.1
9	4.50	.22	.14	20.1
10	5.00	.22	.10	12.7
11	5.50	.22	.09	11.0
12	6.00	.22	.09	11.1

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.22	.08	28.5
2	1.00	.22	.10	41.0
3	1.50	.22	.08	33.5
4	2.00	.22	.08	39.8
5	2.50	.22	.10	44.6
6	3.00	.22	.14	42.6
7	3.50	.22	.14	32.4
8	4.00	.22	.13	21.4
9	4.50	.22	.11	14.1
10	5.00	.22	.09	11.0
11	5.50	.22	.08	9.3

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.14	.05	38.8
2	1.01	.12	.06	49.7
3	1.50	.09	.05	55.4
4	2.00	.11	.05	49.9
5	2.50	.13	.07	50.8
6	3.00	.31	.14	44.9
7	3.50	.40	.14	34.4
8	4.00	.55	.13	24.1
9	4.50	.69	.13	18.7
10	5.00	.79	.12	14.7
11	5.50	.87	.09	10.1



NORMALIZED VELOCITY PROFILE A53105 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/EAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.05	44
2	1.00	.11	.05	44
3	1.50	.08	.05	44
4	2.00	.07	.05	44
5	2.50	.06	.05	44
6	3.00	.05	.05	44
7	3.50	.05	.05	44
8	4.00	.05	.05	44
9	4.50	.05	.05	44
10	5.00	.05	.05	44
11	5.50	.05	.05	44

NORMALIZED VELOCITY PROFILE A53121 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/EAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.07	44
2	1.00	.11	.08	44
3	1.50	.08	.09	44
4	2.00	.07	.09	44
5	2.50	.06	.10	44
6	3.00	.05	.10	44
7	3.50	.05	.11	44
8	4.00	.05	.11	44
9	4.50	.05	.07	44
10	5.00	.05	.07	44
11	5.50	.05	.08	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/EAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.10	.04	44
2	1.00	.10	.04	44
3	1.50	.11	.04	44
4	2.00	.11	.04	44
5	2.50	.11	.04	44
6	3.00	.11	.04	44
7	3.50	.11	.04	44
8	4.00	.11	.04	44
9	4.50	.11	.04	44
10	5.00	.11	.04	44
11	5.50	.11	.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/EAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.49	.11	.06	44
2	1.01	.11	.06	44
3	1.51	.11	.06	44
4	2.01	.11	.06	44
5	2.51	.11	.06	44
6	3.01	.11	.06	44
7	3.51	.11	.06	44
8	4.01	.11	.06	44
9	4.51	.11	.06	44
10	5.01	.11	.06	44
11	5.51	.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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.13	.06	42
2	.62	.13	.06	44
3	.75	.13	.06	44
4	.88	.12	.05	44
5	1.01	.14	.07	53
6	1.14	.17	.10	53
7	1.27	.16	.11	53
8	1.40	.14	.12	53
9	1.53	.12	.12	53
10	1.66	.09	.09	70
11	1.79	.07	.07	70

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.18	.07	37
2	1.00	.14	.08	53
3	2.00	.11	.11	57
4	3.00	.09	.12	48
5	4.00	.09	.14	46
6	5.00	.10	.16	40
7	6.00	.12	.16	32
8	7.00	.13	.15	22
9	8.00	.12	.12	15
10	10.00	.09	.09	11
11	16.00	.08	.07	7

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.30	.11	22
2	.99	.26	.11	19
3	1.48	.22	.11	17
4	1.97	.20	.10	15
5	2.46	.19	.10	14
6	2.95	.18	.10	13
7	3.44	.17	.09	12
8	3.93	.16	.09	11
9	4.42	.15	.09	11
10	4.91	.14	.09	11
11	5.40	.13	.09	11
12	5.89	.12	.09	11
13	6.38	.11	.08	10
14	6.87	.10	.07	9
15	7.36	.09	.07	9
16	7.85	.08	.07	9
17	8.34	.08	.07	9
18	8.83	.07	.07	9

NORMALIZED VELOCITY PROFILE A63102 REF. VEL. 29.5 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.38	.08	21
2	1.01	.33	.08	21
3	1.52	.29	.09	22
4	2.03	.25	.07	18
5	2.54	.22	.07	16
6	3.05	.20	.10	22
7	3.56	.18	.13	23
8	4.07	.16	.12	17
9	4.58	.15	.10	13
10	5.09	.14	.09	11
11	5.60	.13	.09	10
12	6.11	.12	.09	9

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1.50	.03	.08	19.9
2	1.03	.03	.09	26.4
3	4.02	.08	.08	20.1
4	3.03	.09	.09	21.2
5	3.04	.11	.11	22.2
6	6.04	.12	.12	23.3
7	8.04	.10	.10	13.0
8	8.04	.09	.09	10.9
9	10.04	.09	.09	10.8
10	16.02	.07	.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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1.49	.08	.07	25.3
2	1.04	.08	.07	23.1
3	2.03	.08	.07	21.8
4	3.01	.10	.10	26.3
5	4.02	.12	.12	23.3
6	5.01	.13	.13	20.8
7	6.05	.12	.12	16.0
8	8.04	.10	.10	12.7
9	8.04	.09	.09	10.8
10	10.04	.09	.09	9.8
11	16.03	.07	.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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1.49	.09	.06	21.7
2	1.01	.07	.07	21.2
3	2.02	.08	.08	21.1
4	3.03	.10	.10	21.1
5	4.04	.11	.11	21.1
6	5.05	.13	.13	21.0
7	6.02	.12	.12	17.0
8	8.02	.10	.10	17.0
9	8.04	.09	.09	11.0
10	12.04	.08	.08	9.9
11	16.02	.09	.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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	1.50	.10	.04	38.0
2	1.02	.10	.04	38.0
3	2.04	.13	.05	41.0
4	3.04	.10	.10	46.0
5	4.05	.15	.15	34.0
6	5.03	.15	.15	33.0
7	6.06	.11	.11	13.8
8	8.06	.09	.09	11.4
9	8.06	.09	.09	10.8
10	12.05	.09	.09	10.0
11	16.04	.08	.08	9.7

NORMALIZED VELOCITY PROFILE A63122 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.21	.05	24.2
2	1.02	.22	.05	23.2
3	2.04	.24	.05	21.3
4	3.02	.26	.07	27.0
5	4.02	.43	.13	28.3
6	5.04	.61	.12	19.8
7	6.03	.77	.12	17.4
8	6.03	.77	.10	13.3
9	10.03	.82	.09	10.7
10	12.04	.82	.08	9.3
11	16.03	.87	.09	9.8

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.23	.05	20.4
2	1.02	.20	.05	23.6
3	2.01	.16	.05	28.0
4	3.04	.36	.11	30.7
5	4.03	.43	.12	28.1
6	5.03	.53	.12	22.0
7	6.04	.67	.12	18.3
8	6.04	.67	.09	12.3
9	10.04	.82	.09	10.6
10	12.06	.83	.09	10.7
11	16.04	.87	.08	9.7

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.21	.06	22.4
2	1.01	.22	.06	22.6
3	2.00	.22	.06	22.6
4	3.00	.27	.07	22.6
5	4.00	.44	.12	22.6
6	5.00	.69	.14	22.6
7	6.00	.99	.15	22.6
8	6.00	.99	.10	22.6
9	10.00	.88	.09	22.6
10	12.00	.88	.08	22.6
11	16.04	.98	.09	22.6

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.30	.07	22.6
2	1.03	.33	.07	23.0
3	2.00	.33	.07	23.0
4	3.04	.44	.08	23.0
5	4.01	.44	.13	23.0
6	5.00	.62	.14	23.0
7	6.00	.71	.12	23.0
8	6.00	.71	.10	23.0
9	10.00	.83	.09	23.0
10	12.01	.83	.08	23.0
11	16.03	.87	.08	23.0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.04	25.8
2	.01	.16	.05	31.1
3	.01	.24	.07	27.8
4	.00	.30	.08	26.4
5	.98	.42	.12	23.2
6	.01	.61	.14	23.2
7	.00	.74	.12	15.7
8	.00	.82	.08	9.8
9	.00	.84	.07	9.9
10	.00	.84	.08	9.9
11	.03	.87	.08	8.6

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.45	.07	16.6
2	.99	.47	.07	16.0
3	.99	.57	.09	20.1
4	.01	.57	.11	32.4
5	.00	.60	.12	23.8
6	.00	.70	.13	22.2
7	.02	.80	.12	17.4
8	.01	.86	.09	11.4
9	.02	.87	.07	9.9
10	.02	.87	.07	9.9
11	.03	.89	.07	8.2

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.27	.08	29.3
2	.01	.31	.09	33.0
3	.01	.46	.11	33.3
4	.00	.54	.11	31.1
5	.02	.60	.11	26.4
6	.01	.65	.12	23.2
7	.01	.70	.11	15.7
8	.01	.76	.09	9.8
9	.01	.79	.09	9.9
10	.01	.81	.09	9.9
11	.02	.85	.07	8.6

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.41	.07	17.7
2	.99	.43	.07	16.4
3	.00	.47	.07	13.8
4	.01	.52	.08	14.8
5	.01	.57	.08	14.3
6	.01	.62	.11	19.1
7	.01	.67	.09	14.1
8	.01	.72	.08	11.8
9	.01	.76	.08	10.4
10	.01	.79	.07	9.4
11	.02	.87	.07	7.7

NORMALIZED VELOCITY PROFILE A13225 REF. VEL. 28.6 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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.47	.06	12.0
2	100	.47	.06	11.1
3	150	.44	.06	10.2
4	200	.33	.07	9.4
5	250	.36	.08	8.7
6	300	.64	.10	8.0
7	350	.73	.10	7.4
8	400	.81	.08	6.8
9	450	.84	.08	6.0
10	500	.86	.07	5.8
11	550	.86	.07	5.8

NORMALIZED VELOCITY PROFILE A23221 REF. VEL. 28.2 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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.10	.04	41.1
2	100	.11	.04	38.5
3	150	.16	.06	36.4
4	200	.20	.08	32.8
5	250	.32	.12	28.4
6	300	.51	.16	22.4
7	350	.81	.10	18.2
8	400	.85	.07	16.6
9	450	.86	.08	15.6
10	500	.87	.07	14.6
11	550	.89	.08	13.5

NORMALIZED VELOCITY PROFILE A23222 REF. VEL. 28.2 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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.11	.03	23.6
2	100	.12	.04	21.5
3	150	.18	.08	19.9
4	200	.20	.10	18.1
5	250	.33	.14	16.4
6	300	.44	.19	14.5
7	350	.83	.09	12.6
8	400	.86	.07	11.6
9	450	.87	.07	10.8
10	500	.87	.07	10.0
11	550	.90	.07	9.9

NORMALIZED VELOCITY PROFILE A23223 REF. VEL. 28.5 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/REF (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.13	.04	29.0
2	100	.13	.05	26.5
3	150	.19	.06	24.9
4	200	.24	.08	21.1
5	250	.30	.10	18.5
6	300	.43	.14	16.6
7	350	.59	.16	14.6
8	400	.78	.10	12.6
9	450	.83	.07	11.6
10	500	.84	.07	10.8
11	550	.87	.07	10.0

NORMALIZED VELOCITY PROFILE A23224 REF. VEL. 28.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.20	.06	26.9
2	100	.22	.07	31.8
3	150	.23	.09	37.4
4	200	.24	.11	37.4
5	250	.25	.12	33.3
6	300	.26	.14	29.6
7	350	.27	.14	25.9
8	400	.28	.12	18.1
9	450	.29	.10	12.6
10	500	.30	.08	7.3
11	550	.31	.07	7.6

NORMALIZED VELOCITY PROFILE A23225 REF. VEL. 28.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.21	.06	30.8
2	100	.22	.07	32.2
3	150	.23	.08	34.4
4	200	.24	.10	39.9
5	250	.25	.11	30.2
6	300	.26	.13	27.7
7	350	.27	.15	20.0
8	400	.28	.12	18.2
9	450	.29	.10	13.3
10	500	.30	.08	9.8
11	550	.31	.07	8.0

NORMALIZED VELOCITY PROFILE A33201 REF. VEL. 28.6 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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.40	.08	16.4
2	100	.42	.09	16.4
3	150	.44	.10	14.4
4	200	.46	.11	13.4
5	250	.48	.12	11.1
6	300	.50	.13	10.0
7	350	.52	.14	9.9
8	400	.54	.15	9.9
9	450	.56	.16	9.9
10	500	.58	.17	9.9
11	550	.60	.18	9.9
12	600	.62	.19	9.9
13	650	.64	.20	9.9
14	700	.66	.21	9.9
15	750	.68	.22	9.9
16	800	.70	.23	9.9
17	850	.72	.24	9.9
18	900	.74	.25	9.9
19	950	.76	.26	9.9
20	1000	.78	.27	9.9
21	1050	.80	.28	9.9
22	1100	.82	.29	9.9
23	1150	.84	.30	9.9
24	1200	.86	.31	9.9
25	1250	.88	.32	9.9
26	1300	.90	.33	9.9
27	1350	.92	.34	9.9
28	1400	.94	.35	9.9
29	1450	.96	.36	9.9
30	1500	.98	.37	9.9
31	1550	1.00	.38	9.9

NORMALIZED VELOCITY PROFILE A33202 REF. VEL. 28.6 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 MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	50	.60	.07	0.0
2	100	.62	.07	0.0
3	150	.64	.07	0.0
4	200	.66	.08	0.0
5	250	.68	.08	0.0
6	300	.70	.09	0.0
7	350	.72	.09	0.0
8	400	.74	.10	0.0
9	450	.76	.10	0.0
10	500	.78	.11	0.0
11	550	.80	.11	0.0
12	600	.82	.12	0.0
13	650	.84	.12	0.0
14	700	.86	.13	0.0
15	750	.88	.13	0.0
16	800	.90	.14	0.0
17	850	.92	.14	0.0
18	900	.94	.15	0.0
19	950	.96	.15	0.0
20	1000	.98	.16	0.0
21	1050	1.00	.16	0.0
22	1100	1.02	.17	0.0
23	1150	1.04	.17	0.0
24	1200	1.06	.18	0.0
25	1250	1.08	.18	0.0
26	1300	1.10	.19	0.0
27	1350	1.12	.19	0.0
28	1400	1.14	.20	0.0
29	1450	1.16	.20	0.0
30	1500	1.18	.21	0.0
31	1550	1.20	.21	0.0

NORMALIZED VELOCITY PROFILE A33203 REF. VEL. 28.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.19	.06	32.3
2	.99	.17	.06	35.6
3	.99	.19	.08	44.0
4	.99	.11	.11	42.1
5	.00	.12	.12	36.4
6	.00	.14	.14	32.7
7	.00	.13	.13	27.4
8	.00	.13	.13	22.4
9	.99	.16	.13	21.2
10	.02	.14	.14	18.7
11	.99	.07	.07	7.8

NORMALIZED VELOCITY PROFILE A33204 REF. VEL. 28.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.51	.17	.06	22.9
2	.00	.17	.06	21.9
3	.01	.17	.06	21.9
4	.99	.17	.06	21.9
5	.03	.17	.06	21.9
6	.00	.17	.06	21.9
7	.00	.17	.06	21.9
8	.00	.17	.06	21.9
9	.99	.17	.06	21.9
10	.99	.17	.06	21.9
11	.02	.17	.06	21.9

NORMALIZED VELOCITY PROFILE A33205 REF. VEL. 28.9 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.19	.06	32.3
2	.99	.17	.06	35.6
3	.99	.19	.08	44.0
4	.99	.11	.11	42.1
5	.00	.12	.12	36.4
6	.00	.14	.14	32.7
7	.00	.13	.13	27.4
8	.00	.13	.13	22.4
9	.99	.16	.13	21.2
10	.02	.14	.14	18.7
11	.99	.07	.07	7.8

NORMALIZED VELOCITY PROFILE A33221 REF. VEL. 29.5 FPS

TEST ZONE = A WIND DIRECTION = SW  
 TIME OF DAY = 4 PM 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	.11	.04	35.6
2	.00	.10	.04	36.7
3	.00	.11	.05	45.0
4	.98	.15	.07	45.9
5	.98	.15	.11	42.4
6	.99	.15	.15	30.5
7	.00	.14	.12	16.2
8	.99	.11	.07	9.0
9	.98	.11	.06	7.8
10	.99	.11	.07	8.0
11	.99	.11	.07	7.6



NORMALIZED VELOCITY PROFILE A33222 REF. VEL. 29.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.00	.14	.05	.7
2	10.00	.12	.05	.7
3	15.00	.12	.05	.7
4	20.00	.12	.05	.7
5	25.00	.12	.05	.7
6	30.00	.12	.05	.7
7	35.00	.12	.05	.7
8	40.00	.12	.05	.7
9	45.00	.12	.05	.7
10	50.00	.12	.05	.7
11	55.00	.12	.05	.7

NORMALIZED VELOCITY PROFILE A33223 REF. VEL. 29.2 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.00	.11	.04	.4
2	10.00	.12	.04	.4
3	15.00	.16	.08	.4
4	20.00	.21	.10	.4
5	25.00	.30	.11	.4
6	30.00	.41	.11	.4
7	35.00	.54	.11	.4
8	40.00	.73	.11	.4
9	45.00	.84	.09	.4
10	50.00	.86	.07	.4
11	55.00	.89	.07	.4

NORMALIZED VELOCITY PROFILE A33224 REF. VEL. 29.1 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.00	.14	.05	.7
2	10.00	.14	.05	.7
3	15.00	.17	.05	.7
4	20.00	.22	.05	.7
5	25.00	.28	.05	.7
6	30.00	.35	.05	.7
7	35.00	.42	.05	.7
8	40.00	.50	.05	.7
9	45.00	.58	.05	.7
10	50.00	.66	.05	.7
11	55.00	.75	.05	.7

NORMALIZED VELOCITY PROFILE A33225 REF. VEL. 29.0 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	5.00	.14	.06	.7
2	10.00	.14	.06	.7
3	15.00	.16	.06	.7
4	20.00	.19	.06	.7
5	25.00	.22	.06	.7
6	30.00	.26	.06	.7
7	35.00	.30	.06	.7
8	40.00	.35	.06	.7
9	45.00	.41	.06	.7
10	50.00	.48	.06	.7
11	55.00	.56	.06	.7

NORMALIZED VELOCITY PROFILE A33226 REF. VEL. 28.7 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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.10	.04	41.8
2	1.00	.11	.05	48.5
3	2.01	.21	.11	50.7
4	3.01	.40	.16	40.7
5	4.00	.64	.15	22.7
6	5.00	.76	.10	13.5
7	6.01	.79	.09	11.0
8	8.00	.81	.08	9.7
9	10.00	.82	.07	8.9
10	12.01	.84	.07	8.7
11	16.01	.86	.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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.48	.10	.04	41.0
2	1.00	.10	.05	47.3
3	1.99	.11	.07	58.6
4	2.98	.18	.11	61.3
5	3.98	.31	.16	51.0
6	4.98	.52	.18	34.0
7	6.00	.69	.13	19.3
8	8.00	.79	.08	10.2
9	10.00	.83	.07	8.9
10	11.99	.85	.08	9.1
11	15.99	.87	.07	8.1

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/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.20	.07	34
2	1.00	.18	.08	34
3	2.00	.16	.11	34
4	3.00	.14	.14	34
5	4.00	.13	.15	34
6	6.00	.11	.18	34
7	8.00	.09	.21	34
8	10.00	.08	.24	34
9	12.00	.07	.27	34
10	14.00	.06	.30	34
11	16.00	.05	.33	34

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/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.06	40
2	1.00	.14	.06	40
3	2.00	.12	.08	40
4	3.00	.11	.10	40
5	4.00	.10	.12	40
6	6.00	.08	.15	40
7	8.00	.07	.18	40
8	10.00	.06	.21	40
9	12.00	.05	.24	40
10	14.00	.04	.27	40
11	16.00	.04	.30	40

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/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.13	.07	51
2	1.00	.16	.10	51
3	2.00	.20	.11	51
4	3.00	.17	.10	51
5	4.00	.14	.12	51
6	6.00	.11	.15	51
7	8.00	.09	.18	51
8	10.00	.08	.21	51
9	12.00	.07	.24	51
10	14.00	.06	.27	51
11	16.00	.05	.30	51

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/MEAN (U/UREF)	U/RMS (U/UREF)	TURB INT (PERCENT)
1	.50	.12	.06	48
2	1.00	.12	.05	42
3	2.00	.14	.07	49
4	3.00	.16	.10	57
5	4.00	.18	.14	65
6	6.00	.23	.18	73
7	8.00	.28	.23	81
8	10.00	.33	.28	89
9	12.00	.38	.33	97
10	14.00	.43	.38	105
11	16.00	.48	.43	113

NORMALIZED VELOCITY PROFILE A43225 REF. VEL. 29.3 FPS

TEST ZONE = A WIND DIRECTION = 88W  
 TIME OF DAY = 4 PM POSITION OF PROFILE = 5  
 FENCE CONFIGURATION = 15FT AT 52FT

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URNS (U/UREF)	TURB INT (PERCENT)
1	50	.16	.07	1
2	100	.16	.08	1
3	150	.16	.10	1
4	200	.16	.13	1
5	250	.16	.17	1
6	300	.16	.17	1
7	350	.16	.11	1
8	400	.16	.08	1
9	450	.16	.07	1
10	500	.16	.06	1

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/UREF	URMS (U/UREF)	TURB INT (PERCENT)
1	.49	.67	.07	10.1
2	.99	.65	.07	10.5
3	1.49	.74	.09	11.2
4	1.99	.73	.08	10.9
5	2.49	.67	.07	10.9
6	2.99	.66	.07	10.9
7	3.49	.74	.07	10.9
8	3.99	.74	.07	10.9
9	4.49	.74	.07	10.9
10	4.99	.74	.07	10.9
11	5.49	.74	.07	10.9
12	5.99	.74	.07	10.9
13	6.49	.74	.07	10.9
14	6.99	.74	.07	10.9
15	7.49	.74	.07	10.9
16	7.99	.74	.07	10.9
17	8.49	.74	.07	10.9
18	8.99	.74	.07	10.9
19	9.49	.74	.07	10.9
20	9.99	.74	.07	10.9
21	10.49	.74	.07	10.9
22	10.99	.74	.07	10.9
23	11.49	.74	.07	10.9
24	11.99	.74	.07	10.9
25	12.49	.74	.07	10.9
26	12.99	.74	.07	10.9
27	13.49	.74	.07	10.9
28	13.99	.74	.07	10.9
29	14.49	.74	.07	10.9
30	14.99	.74	.07	10.9
31	15.49	.74	.07	10.9
32	15.99	.74	.07	10.9
33	16.49	.74	.07	10.9
34	16.99	.74	.07	10.9
35	17.49	.74	.07	10.9
36	17.99	.74	.07	10.9
37	18.49	.74	.07	10.9
38	18.99	.74	.07	10.9
39	19.49	.74	.07	10.9
40	19.99	.74	.07	10.9
41	20.49	.74	.07	10.9
42	20.99	.74	.07	10.9
43	21.49	.74	.07	10.9
44	21.99	.74	.07	10.9
45	22.49	.74	.07	10.9
46	22.99	.74	.07	10.9
47	23.49	.74	.07	10.9
48	23.99	.74	.07	10.9
49	24.49	.74	.07	10.9
50	24.99	.74	.07	10.9
51	25.49	.74	.07	10.9
52	25.99	.74	.07	10.9
53	26.49	.74	.07	10.9
54	26.99	.74	.07	10.9
55	27.49	.74	.07	10.9
56	27.99	.74	.07	10.9
57	28.49	.74	.07	10.9
58	28.99	.74	.07	10.9
59	29.49	.74	.07	10.9
60	29.99	.74	.07	10.9
61	30.49	.74	.07	10.9
62	30.99	.74	.07	10.9
63	31.49	.74	.07	10.9
64	31.99	.74	.07	10.9
65	32.49	.74	.07	10.9
66	32.99	.74	.07	10.9
67	33.49	.74	.07	10.9
68	33.99	.74	.07	10.9
69	34.49	.74	.07	10.9
70	34.99	.74	.07	10.9
71	35.49	.74	.07	10.9
72	35.99	.74	.07	10.9
73	36.49	.74	.07	10.9
74	36.99	.74	.07	10.9
75	37.49	.74	.07	10.9
76	37.99	.74	.07	10.9
77	38.49	.74	.07	10.9
78	38.99	.74	.07	10.9
79	39.49	.74	.07	10.9
80	39.99	.74	.07	10.9
81	40.49	.74	.07	10.9
82	40.99	.74	.07	10.9
83	41.49	.74	.07	10.9
84	41.99	.74	.07	10.9
85	42.49	.74	.07	10.9
86	42.99	.74	.07	10.9
87	43.49	.74	.07	10.9
88	43.99	.74	.07	10.9
89	44.49	.74	.07	10.9
90	44.99	.74	.07	10.9
91	45.49	.74	.07	10.9
92	45.99	.74	.07	10.9
93	46.49	.74	.07	10.9
94	46.99	.74	.07	10.9
95	47.49	.74	.07	10.9
96	47.99	.74	.07	10.9
97	48.49	.74	.07	10.9
98	48.99	.74	.07	10.9
99	49.49	.74	.07	10.9
100	49.99	.74	.07	10.9
101	50.49	.74	.07	10.9
102	50.99	.74	.07	10.9
103	51.49	.74	.07	10.9
104	51.99	.74	.07	10.9
105	52.49	.74	.07	10.9
106	52.99	.74	.07	10.9
107	53.49	.74	.07	10.9
108	53.99	.74	.07	10.9
109	54.49	.74	.07	10.9
110	54.99	.74	.07	10.9
111	55.49	.74	.07	10.9
112	55.99	.74	.07	10.9
113	56.49	.74	.07	10.9
114	56.99	.74	.07	10.9
115	57.49	.74	.07	10.9
116	57.99	.74	.07	10.9
117	58.49	.74	.07	10.9
118	58.99	.74	.07	10.9
119	59.49	.74	.07	10.9
120	59.99	.74	.07	10.9
121	60.49	.74	.07	10.9
122	60.99	.74	.07	10.9
123	61.49	.74	.07	10.9
124	61.99	.74	.07	10.9
125	62.49	.74	.07	10.9
126	62.99	.74	.07	10.9
127	63.49	.74	.07	10.9
128	63.99	.74	.07	10.9
129	64.49	.74	.07	10.9
130	64.99	.74	.07	10.9
131	65.49	.74	.07	10.9
132	65.99	.74	.07	10.9
133	66.49	.74	.07	10.9
134	66.99	.74	.07	10.9
135	67.49	.74	.07	10.9
136	67.99	.74	.07	10.9
137	68.49	.74	.07	10.9
138	68.99	.74	.07	10.9
139	69.49	.74	.07	10.9
140	69.99	.74	.07	10.9
141	70.49	.74	.07	10.9
142	70.99	.74	.07	10.9
143	71.49	.74	.07	10.9
144	71.99	.74	.07	10.9
145	72.49	.74	.07	10.9
146	72.99	.74	.07	10.9
147	73.49	.74	.07	10.9
148	73.99	.74	.07	10.9
149	74.49	.74	.07	10.9
150	74.99	.74	.07	10.9
151	75.49	.74	.07	10.9
152	75.99	.74	.07	10.9
153	76.49	.74	.07	10.9
154	76.99	.74	.07	10.9
155	77.49	.74	.07	10.9
156	77.99	.74	.07	10.9
157	78.49	.74	.07	10.9
158	78.99	.74	.07	10.9
159	79.49	.74	.07	10.9
160	79.99	.74	.07	10.9
161	80.49	.74	.07	10.9
162	80.99	.74	.07	10.9
163	81.49	.74	.07	10.9
164	81.99	.74	.07	10.9
165	82.49	.74	.07	10.9
166	82.99	.74	.07	10.9
167	83.49	.74	.07	10.9
168	83.99	.74	.07	10.9
169	84.49	.74	.07	10.9
170	84.99	.74	.07	10.9
171	85.49	.74	.07	10.9
172	85.99	.74	.07	10.9
173	86.49	.74	.07	10.9
174	86.99	.74	.07	10.9
175	87.49	.74	.07	10.9
176	87.99	.74	.07	10.9
177	88.49	.74	.07	10.9
178	88.99	.74	.07	10.9
179	89.49	.74	.07	10.9
180	89.99	.74	.07	10.9
181	90.49	.74	.07	10.9
182	90.99	.74	.07	10.9
183	91.49	.74	.07	10.9
184	91.99	.74	.07	10.9
185	92.49	.74	.07	10.9
186	92.99	.74	.07	10.9
187	93.49	.74	.07	10.9
188	93.99	.74	.07	10.9
189	94.49	.74	.07	10.9
190	94.99	.74	.07	10.9
191	95.49	.74	.07	10.9
192	95.99	.74	.07	10.9
193	96.49	.74	.07	10.9
194	96.99	.74	.07	10.9
195	97.49	.74	.07	10.9
196	97.99	.74	.07	10.9
197	98.49	.74	.07	10.9
198	98.99	.74	.07	10.9
199	99.49	.74	.07	10.9
200	99.99	.74	.07	10.9
201	100.49	.74	.07	10.9
202	100.99	.74	.07	10.9
203	101.49	.74	.07	10.9
204	101.99	.74	.07	10.9
205	102.49	.74	.07	10.9
206	102.99	.74	.07	10.9
207	103.49	.74	.07	10.9
208	103.99	.74	.07	10.9
209	104.49	.74	.07	10.9
210	104.99	.74	.07	10.9
211	105.49	.74	.07	10.9
212	105.99	.74	.07	10.9
213	106.49	.74	.07	10.9
214	106.99	.74	.07	10.9
215	107.49	.74	.07	10.9
216	107.99	.74	.07	10.9
217	108.49	.74	.07	10.9
218	108.99	.74	.07	10.9
219	109.49	.74	.07	10.9
220	109.99	.74	.07	10.9
221	110.49	.74	.07	10.9
222	110.99	.74	.07	10.9
223	111.49	.74	.07	10.9
224	111.99	.74	.07	10.9
225	112.49	.74	.07	10.9
226	112.99	.74	.07	10.9
227	113.49	.74	.07	10.9
228	113.99	.74	.07	10.9
229	114.49	.74	.07	10.9
230	114.99	.74	.07	10.9
231	115.49	.74	.07	10.9
232	115.99	.74	.07	10.9
233	116.49	.74	.07	10.9
234	116.99	.74	.07	10.9
235	117.49	.74	.07	10.9
236	117.99	.74	.07	10.9
237	118.49	.74	.07	10.9
238	118.99	.74	.07	10.9
239	119.49	.74	.07	10.9
240	119.99	.74	.07	10.9
241	120.49	.74	.07	10.9
242	120.99	.74	.07	10.9
243	121.49	.74	.07	10.9
244	121.99	.74	.07	10.9
245	122.49	.74	.07	10.9
246	122.99	.74	.07	10.9
247	123.49	.74	.07	10.9
248	123.99	.74	.07	10.9
249	124.49	.74	.07	10.9
250	124.99	.74	.07	10.9
251	125.49	.74	.07	10.9
252	125.99	.74	.07	10.9
253	126.49	.74	.07	10.9
254	126.99	.74	.07	10.9
255	127.49	.74	.07	10.9
256	127.99	.74	.07	10.9
257	128.49	.74	.07	10.9
258	128.99	.74	.07	10.9
259	129.49	.74	.07	10.9
260	129.99	.74	.07	10.9
261	130.49	.74	.07	10.9
262	130.99	.74	.07	10.9
263	131.49	.74	.07	10.9
264	131.99	.74	.07	10.9
265	132.49	.74	.07	10.9
266	132.9			

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.22	.07	.6
2	42	.22	.07	.6
3	34	.22	.07	.6
4	26	.22	.07	.6
5	18	.22	.07	.6
6	10	.22	.07	.6
7	2	.22	.07	.6
8	50	.22	.07	.6
9	42	.22	.07	.6
10	34	.22	.07	.6
11	26	.22	.07	.6

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.20	.05	.4
2	42	.20	.05	.4
3	34	.20	.05	.4
4	26	.20	.05	.4
5	18	.20	.05	.4
6	10	.20	.05	.4
7	2	.20	.05	.4
8	50	.20	.05	.4
9	42	.20	.05	.4
10	34	.20	.05	.4
11	26	.20	.05	.4

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.12	.06	44.8
2	42	.12	.06	42.6
3	34	.12	.06	40.4
4	26	.12	.06	38.2
5	18	.12	.06	36.0
6	10	.12	.06	33.8
7	2	.12	.06	31.6
8	50	.12	.06	29.4
9	42	.12	.06	27.2
10	34	.12	.06	25.0
11	26	.12	.06	22.8

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	50	.16	.08	48.7
2	42	.16	.08	46.5
3	34	.16	.08	44.3
4	26	.16	.08	42.1
5	18	.16	.08	39.9
6	10	.16	.08	37.7
7	2	.16	.08	35.5
8	50	.16	.08	33.3
9	42	.16	.08	31.1
10	34	.16	.08	28.9
11	26	.16	.08	26.7

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.14	.05	3.1
2	.00	.14	.04	3.1
3	.01	.16	.06	3.1
4	.01	.19	.07	3.1
5	.99	.20	.08	3.1
6	4.98	.38	.16	3.1
7	6.02	.51	.15	3.1
8	6.01	.67	.14	3.1
9	10.00	.79	.11	3.1
10	12.01	.83	.08	3.1
11	15.98	.89	.06	3.1

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.19	.06	3.1
2	.99	.07	.07	3.1
3	1.98	.11	.11	3.1
4	3.01	.13	.13	3.1
5	3.99	.13	.13	3.1
6	5.00	.15	.15	3.1
7	6.01	.49	.49	3.1
8	7.01	.64	.64	3.1
9	10.03	.75	.75	3.1
10	11.99	.85	.85	3.1
11	16.02	.89	.07	3.1

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.53	.10	3.1
2	.99	.61	.09	3.1
3	.00	.67	.08	3.1
4	.01	.70	.08	3.1
5	.00	.75	.08	3.1
6	.00	.75	.08	3.1
7	.00	.75	.08	3.1
8	.00	.75	.08	3.1
9	.01	.81	.07	3.1
10	.02	.84	.07	3.1
11	.01	.87	.07	3.1
12	.02	.90	.07	3.1
13	.02	.93	.06	3.1
14	.01	.96	.06	3.1
15	.01	.97	.05	3.1
16	.00	.99	.05	3.1
17	.96	1.01	.05	3.1

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)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.56	.09	3.1
2	.99	.57	.08	3.1
3	.00	.59	.08	3.1
4	.01	.63	.08	3.1
5	.00	.66	.09	3.1
6	.00	.71	.10	3.1
7	.00	.75	.08	3.1
8	.00	.75	.06	3.1
9	.99	.80	.07	3.1
10	9.99	.82	.07	3.1
11	16.01	.86	.06	3.1

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.33	.07	12.0
2	.01	.33	.07	12.0
3	.00	.33	.07	12.0
4	.00	.33	.07	12.0
5	.00	.33	.07	12.0
6	.00	.33	.07	12.0
7	.00	.33	.07	12.0
8	.00	.33	.07	12.0
9	.00	.33	.07	12.0
10	.98	.33	.07	12.0
11	9.99	.33	.07	12.0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.37	.06	15.5
2	.97	.43	.07	15.1
3	.99	.43	.07	15.1
4	.00	.43	.06	15.1
5	.98	.43	.06	14.0
6	.98	.43	.09	10.0
7	.98	.43	.07	8.0
8	.97	.43	.07	8.0
9	.97	.43	.07	8.0
10	.97	.43	.07	8.0
11	9.97	.43	.07	8.0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.52	.06	10.9
2	.00	.52	.05	10.0
3	.00	.52	.07	13.0
4	.99	.52	.07	13.0
5	.99	.52	.08	13.0
6	.4.98	.52	.08	13.0
7	.00	.52	.08	13.0
8	.7.98	.52	.07	13.0
9	10.00	.52	.07	13.0
10	11.98	.52	.06	13.0
11	15.98	.52	.06	13.0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.09	.04	37.1
2	.99	.11	.04	34.6
3	1.99	.16	.06	36.7
4	2.99	.31	.11	35.1
5	3.99	.49	.14	27.4
6	4.99	.69	.12	17.4
7	5.99	.76	.08	10.0
8	7.99	.79	.07	8.9
9	10.01	.80	.07	8.9
10	11.98	.83	.07	8.9
11	15.98	.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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.51	.46	.07	15.3
2	.99	.49	.07	14.8
3	1.99	.52	.08	15.1
4	2.99	.55	.08	15.5
5	4.00	.58	.09	15.6
6	6.00	.61	.10	17.3
7	8.00	.71	.08	11.6
8	10.00	.74	.07	9.7
9	11.99	.76	.07	9.1
10	11.99	.78	.06	8.1
11	15.98	.81	.06	8.0

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.43	.06	14.7
2	.99	.46	.07	14.9
3	1.99	.48	.07	14.9
4	2.99	.53	.08	14.9
5	4.00	.61	.09	15.3
6	5.00	.66	.09	13.5
7	6.00	.71	.08	10.9
8	7.98	.75	.07	9.0
9	10.00	.78	.07	8.7
10	11.99	.78	.06	8.2
11	15.98	.80	.06	7.9

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.36	.07	19.8
2	.99	.41	.08	19.9
3	1.99	.47	.08	16.2
4	2.99	.49	.08	16.2
5	3.99	.54	.08	14.5
6	4.99	.67	.11	15.9
7	6.00	.74	.09	11.9
8	7.99	.80	.08	9.8
9	9.99	.82	.07	8.1
10	11.99	.84	.07	8.0
11	15.98	.87	.07	7.8

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 <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (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	3.00	.45	.08	18.1
5	4.01	.57	.10	17.1
6	4.99	.70	.09	12.9
7	5.99	.75	.08	11.0
8	7.99	.80	.07	9.0
9	9.99	.83	.07	8.2
10	11.99	.84	.07	8.1
11	15.99	.86	.06	7.1

NORMALIZED VELOCITY PROFILE A33301 REF. VEL. 30.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.61	.09	15.2
2	.00	.56	.09	13.0
3	.01	.56	.09	13.0
4	.00	.56	.09	12.8
5	.03	.56	.09	11.9
6	.99	.56	.09	11.1
7	.00	.56	.09	10.7
8	.00	.56	.08	10.6
9	.01	.56	.09	10.6
10	.01	.56	.07	9.9
11	.01	.56	.07	9.9
12	.03	.56	.07	9.4
13	.03	.56	.07	9.4
14	.04	.56	.05	7.6
15	.03	.56	.05	7.6
16	.03	.56	.05	5.5
17	.03	.56	.05	4.4
18	.04	1.00	.05	4.6
19	.04	1.00	.05	4.6

NORMALIZED VELOCITY PROFILE A33302 REF. VEL. 30.5 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.50	.07	14.4
2	.01	.50	.07	13.0
3	.00	.50	.07	13.0
4	.01	.50	.07	14.4
5	.03	.50	.10	13.3
6	.02	.50	.08	10.6
7	.02	.50	.08	9.9
8	.02	.50	.07	8.8
9	.02	.50	.07	8.8
10	.02	.50	.07	8.8
11	.03	.50	.07	7.6

NORMALIZED VELOCITY PROFILE A33303 REF. VEL. 30.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.50	.54	.08	13.8
2	.01	.54	.07	13.0
3	.01	.54	.07	14.1
4	.00	.54	.09	13.1
5	.00	.54	.08	13.1
6	.02	.54	.07	9.9
7	.02	.54	.07	9.9
8	.03	.54	.07	8.8
9	.03	.54	.07	8.8
10	.00	.54	.07	8.8
11	.02	.54	.07	8.0

NORMALIZED VELOCITY PROFILE A33304 REF. VEL. 30.6 FPS

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

DATA POINT	HEIGHT (INCHES)	U/REF	URMS (U/REF)	TURB INT (PERCENT)
1	.51	.48	.07	14.6
2	.01	.48	.06	10.9
3	.01	.48	.05	10.9
4	.01	.48	.10	19.0
5	.01	.48	.10	14.0
6	.00	.48	.10	10.0
7	.02	.48	.08	9.9
8	.02	.48	.07	9.9
9	.01	.48	.06	7.9
10	.01	.48	.07	8.0
11	.02	.48	.07	7.8

NORMALIZED VELOCITY PROFILE A33305 REF. VEL. 30.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U MEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.49	.06	12.00
2	1.01	.49	.06	12.00
3	2.00	.49	.06	12.00
4	3.01	.49	.06	12.00
5	4.02	.49	.06	12.00
6	5.03	.49	.06	12.00
7	6.01	.49	.06	12.00
8	8.02	.49	.06	12.00
9	10.01	.49	.06	12.00
10	12.02	.49	.06	12.00
11	16.02	.49	.06	12.00

NORMALIZED VELOCITY PROFILE A33321 REF. VEL. 31.3 FPS

TEST ZONE = A WIND DIRECTION = SW  
 TIME OF DAY = STOWED 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	.07	.03	41.7
2	1.00	.09	.04	43.3
3	2.00	.11	.05	41.6
4	3.00	.16	.08	48.1
5	4.02	.36	.15	41.4
6	5.00	.59	.16	27.3
7	6.01	.80	.11	13.1
8	8.02	.83	.07	8.2
9	10.00	.86	.07	7.9
10	12.01	.86	.07	7.7
11	16.01	.87	.07	7.5

NORMALIZED VELOCITY PROFILE A33322 REF. VEL. 31.2 FPS

TEST ZONE = A WIND DIRECTION = SW  
 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	.50	.11	.06	56.00
2	1.01	.12	.06	56.00
3	2.00	.13	.06	56.00
4	3.01	.14	.06	56.00
5	4.01	.14	.06	56.00
6	5.03	.15	.06	56.00
7	6.01	.15	.06	56.00
8	8.02	.14	.06	56.00
9	10.01	.14	.06	56.00
10	12.02	.14	.06	56.00
11	16.03	.14	.06	56.00

NORMALIZED VELOCITY PROFILE A33323 REF. VEL. 30.9 FPS

TEST ZONE = A WIND DIRECTION = SW  
 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	.50	.13	.06	46.8
2	1.01	.15	.07	42.8
3	2.00	.22	.10	44.0
4	3.01	.39	.15	38.4
5	4.01	.50	.14	27.8
6	5.02	.59	.14	24.5
7	6.01	.65	.13	19.9
8	8.03	.77	.09	11.6
9	10.03	.81	.08	9.4
10	12.03	.83	.07	8.9
11	16.02	.86	.06	7.5

NORMALIZED VELOCITY PROFILE A33324 REF. VEL. 30.9 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.22	.05	20.7
2	.60	.28	.06	22.3
3	.70	.37	.08	23.0
4	.80	.47	.12	23.0
5	1.00	.54	.12	23.0
6	1.50	.58	.12	23.0
7	2.00	.63	.12	23.0
8	3.00	.71	.11	14.9
9	4.00	.76	.09	11.4
10	12.00	.80	.08	7.9
11	16.00	.83	.06	7.0

NORMALIZED VELOCITY PROFILE A33325 REF. VEL. 30.7 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.27	.06	31.2
2	1.00	.30	.08	30.6
3	1.50	.33	.07	29.0
4	2.00	.48	.12	25.5
5	3.00	.54	.12	22.3
6	4.00	.60	.12	19.5
7	5.00	.64	.12	18.0
8	6.00	.70	.11	15.0
9	8.00	.77	.08	10.6
10	12.00	.80	.07	9.1
11	16.00	.84	.06	7.5

NORMALIZED VELOCITY PROFILE A53301 REF. VEL. 28.9 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.61	.08	12.3
2	.60	.67	.08	11.2
3	.70	.71	.08	11.1
4	.80	.73	.08	11.0
5	1.00	.74	.08	10.9
6	1.50	.77	.08	10.8
7	2.00	.79	.08	10.8
8	3.00	.81	.08	10.8
9	4.00	.83	.07	10.8
10	10.00	.84	.07	10.8
11	12.00	.87	.07	10.8
12	13.00	.90	.07	10.8
13	14.00	.93	.06	10.8
14	15.00	.96	.06	10.8
15	16.00	.98	.06	10.8
16	17.00	.99	.05	10.8
17	18.00	1.01	.05	10.8
18	19.00	1.02	.04	10.8

NORMALIZED VELOCITY PROFILE A53302 REF. VEL. 29.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.56	.08	14.9
2	1.00	.59	.08	14.3
3	1.50	.57	.10	17.4
4	2.00	.59	.10	17.4
5	3.00	.71	.09	11.0
6	4.00	.78	.08	11.0
7	5.00	.78	.08	11.0
8	6.00	.80	.07	9.9
9	7.00	.82	.07	9.0
10	10.00	.83	.07	8.4
11	12.00	.83	.07	8.4
12	16.00	.88	.07	7.9

NORMALIZED VELOCITY PROFILE A53303 REF. VEL. 29.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.64	.08	12.5
2	.67	.67	.08	11.7
3	.84	.67	.09	13.0
4	1.01	.67	.10	14.0
5	1.18	.67	.09	11.1
6	1.35	.67	.07	11.1
7	1.52	.67	.07	9.9
8	1.69	.67	.07	8.7
9	1.86	.67	.06	7.9
10	2.03	.67	.06	7.7
11	2.20	.67	.07	7.6

NORMALIZED VELOCITY PROFILE A53304 REF. VEL. 29.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.46	.07	16.0
2	1.01	.48	.09	18.4
3	1.52	.44	.08	17.3
4	2.03	.44	.09	19.1
5	2.54	.60	.10	15.7
6	3.05	.71	.09	11.8
7	3.56	.80	.08	9.9
8	4.07	.89	.07	8.8
9	4.58	.98	.07	8.0
10	5.09	.98	.07	7.7
11	5.60	.98	.06	7.5

NORMALIZED VELOCITY PROFILE A53305 REF. VEL. 29.4 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.58	.08	13.7
2	.67	.60	.07	12.2
3	.84	.60	.07	11.8
4	1.01	.60	.10	11.8
5	1.18	.60	.11	16.4
6	1.35	.60	.10	13.7
7	1.52	.60	.09	11.1
8	1.69	.60	.07	8.4
9	1.86	.60	.07	7.1
10	2.03	.60	.06	8.0
11	2.20	.60	.06	7.3

NORMALIZED VELOCITY PROFILE A53321 REF. VEL. 30.3 FPS

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

DATA POINT	HEIGHT (INCHES)	U <sub>MEAN</sub> (U/UREF)	U <sub>RMS</sub> (U/UREF)	TURB INT (PERCENT)
1	.50	.07	.03	40.7
2	1.01	.08	.03	44.9
3	1.52	.10	.04	47.5
4	2.03	.12	.05	46.5
5	2.54	.15	.05	38.6
6	3.05	.15	.05	32.2
7	3.56	.09	.03	11.1
8	4.07	.07	.02	8.3
9	4.58	.07	.02	7.8
10	5.09	.06	.02	7.4
11	5.60	.06	.02	7.3

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.16	.08	3.0
2	1.01	.16	.08	3.0
3	1.52	.19	.10	3.4
4	2.03	.40	.14	7.4
5	3.04	.49	.14	8.9
6	4.05	.57	.14	10.5
7	5.06	.77	.14	14.1
8	6.07	.80	.14	14.8
9	8.09	.81	.14	17.1
10	10.10	.84	.14	18.6
11	16.14	.84	.14	27.4

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.21	.10	4.4
2	1.01	.22	.11	4.6
3	1.52	.35	.13	7.2
4	2.03	.42	.14	8.4
5	3.04	.49	.14	10.5
6	4.05	.56	.14	12.7
7	5.06	.76	.14	18.8
8	6.07	.79	.14	19.6
9	8.09	.82	.14	24.0
10	10.10	.82	.14	24.4
11	16.14	.84	.14	37.7

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.31	.07	23.6
2	1.01	.31	.07	23.3
3	1.52	.29	.07	23.0
4	2.03	.46	.13	33.3
5	3.04	.56	.12	39.0
6	4.05	.62	.12	42.5
7	5.06	.66	.11	47.1
8	6.07	.74	.10	53.1
9	8.09	.79	.07	58.6
10	10.10	.82	.06	63.8
11	16.14	.84	.06	77.1

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)	UMEAN (U/UREF)	URMS (U/UREF)	TURB INT (PERCENT)
1	.50	.37	.09	22.9
2	1.01	.40	.09	21.9
3	1.52	.46	.12	25.3
4	2.03	.54	.14	31.1
5	3.04	.59	.13	35.7
6	4.05	.64	.12	38.8
7	5.06	.69	.12	47.1
8	6.07	.76	.11	54.0
9	8.09	.82	.09	60.4
10	10.10	.84	.07	63.0
11	16.14	.89	.06	67.9

## APPENDIX B

### Velocity Profile Plots

Velocity Profile and Moment Data-File Name Code

File Name = Z WD V TD FC P

Z = Zone = A or B

WD = 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

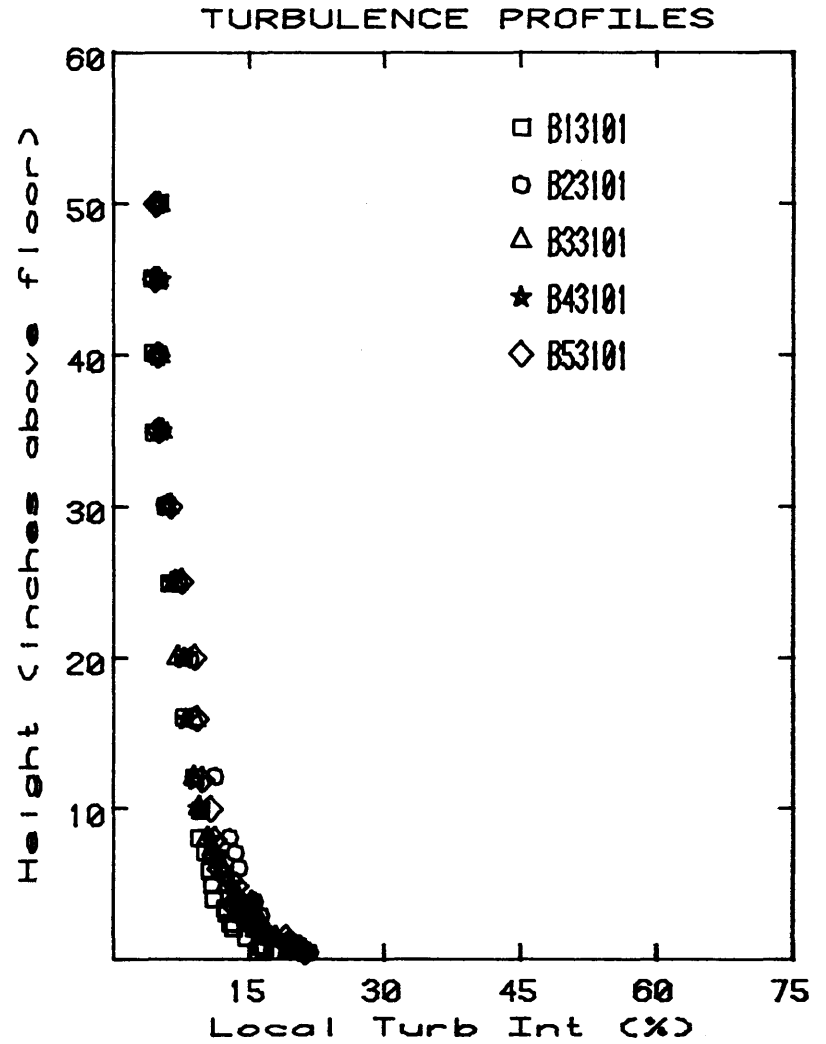
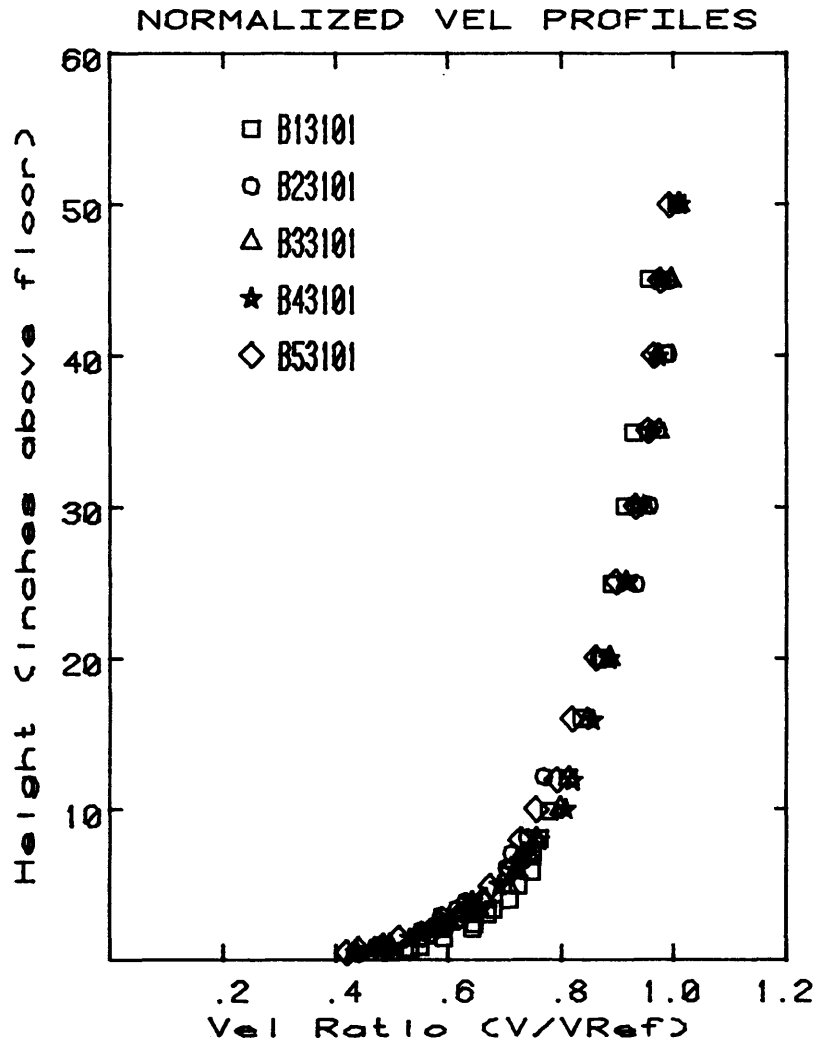
Graph Guide

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

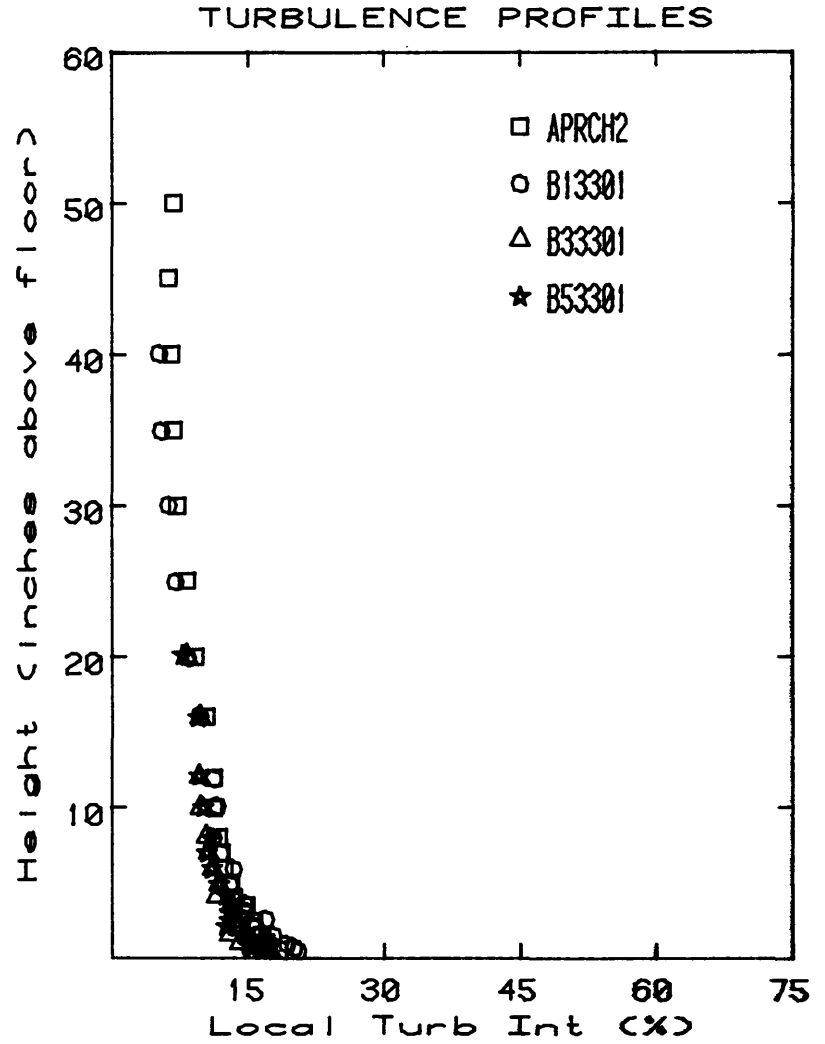
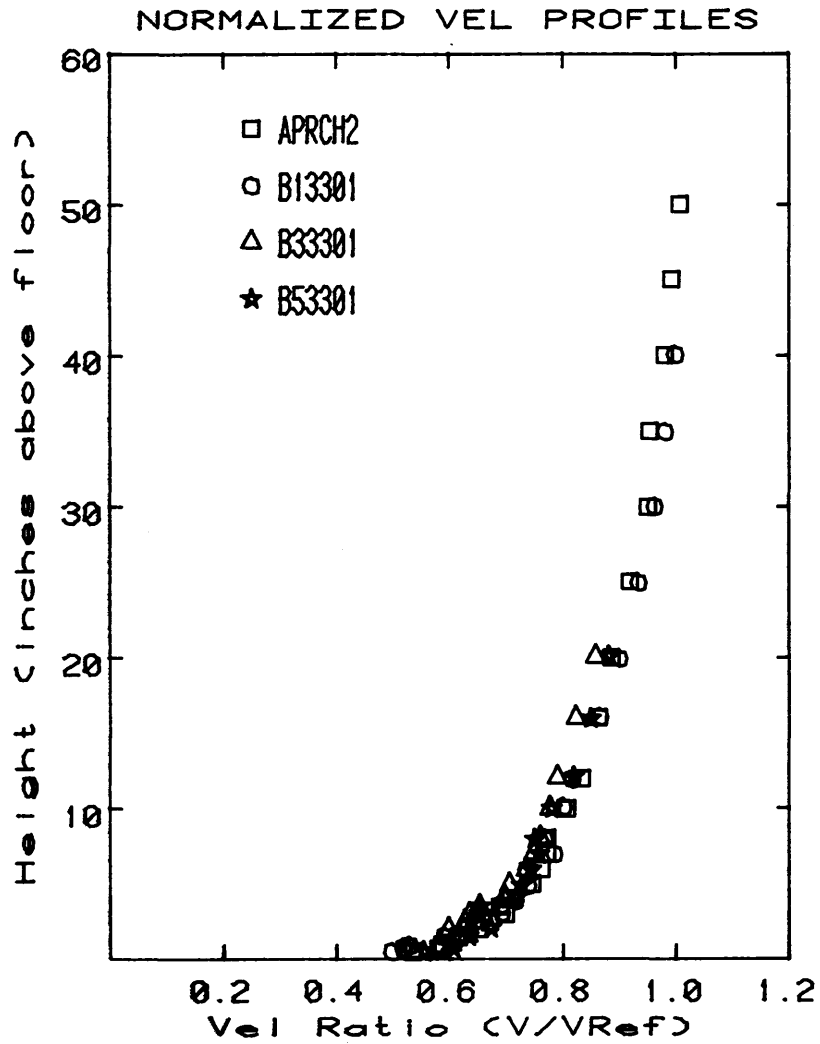
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33	B23221	B23222	B23223	B23224	B23225
34	B33221	B33222	B33223	B33224	B33225
35	B43221	B43222	B43223	B43224	B43225
36	B53221	B53222	B53223	B53224	B53225
37	B13301	B13302	B13303	B13304	B13305
38	B13321	B13322	B13323	B13324	B13325
39	B33301	B33302	B33303	B33304	B33305
40	B33321	B33322	B33323	B33324	B33325
41	B53301	B53302	B53303	B55304	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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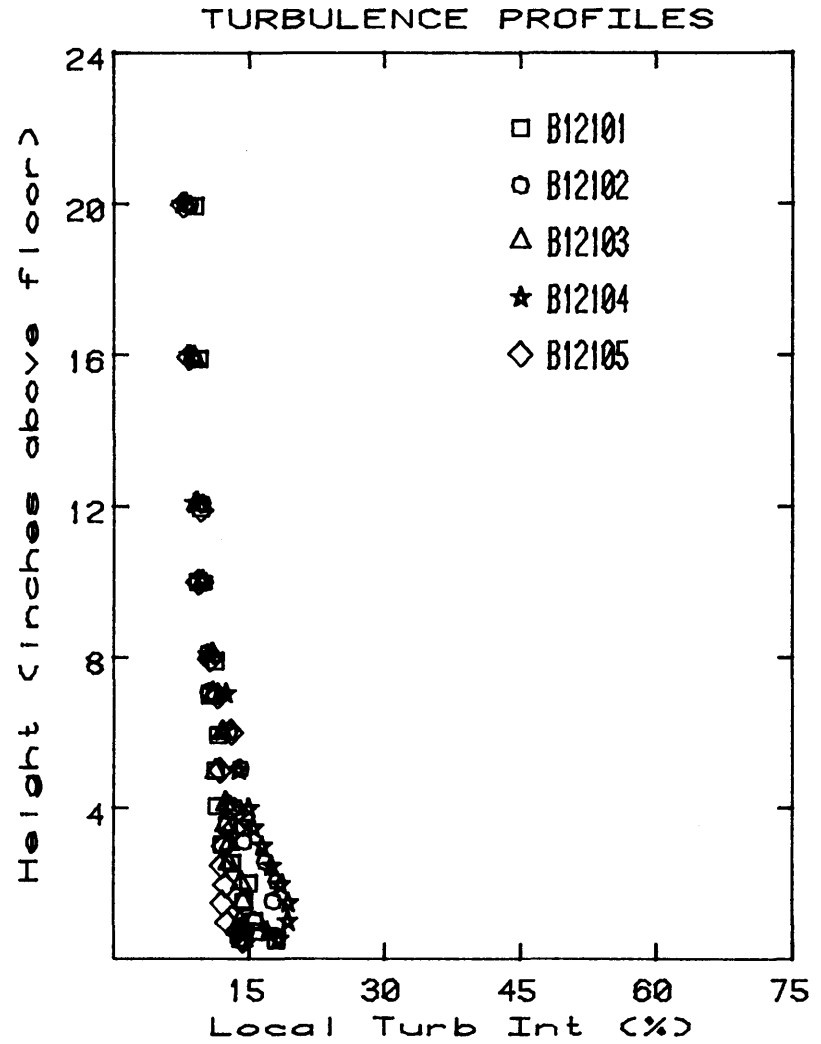
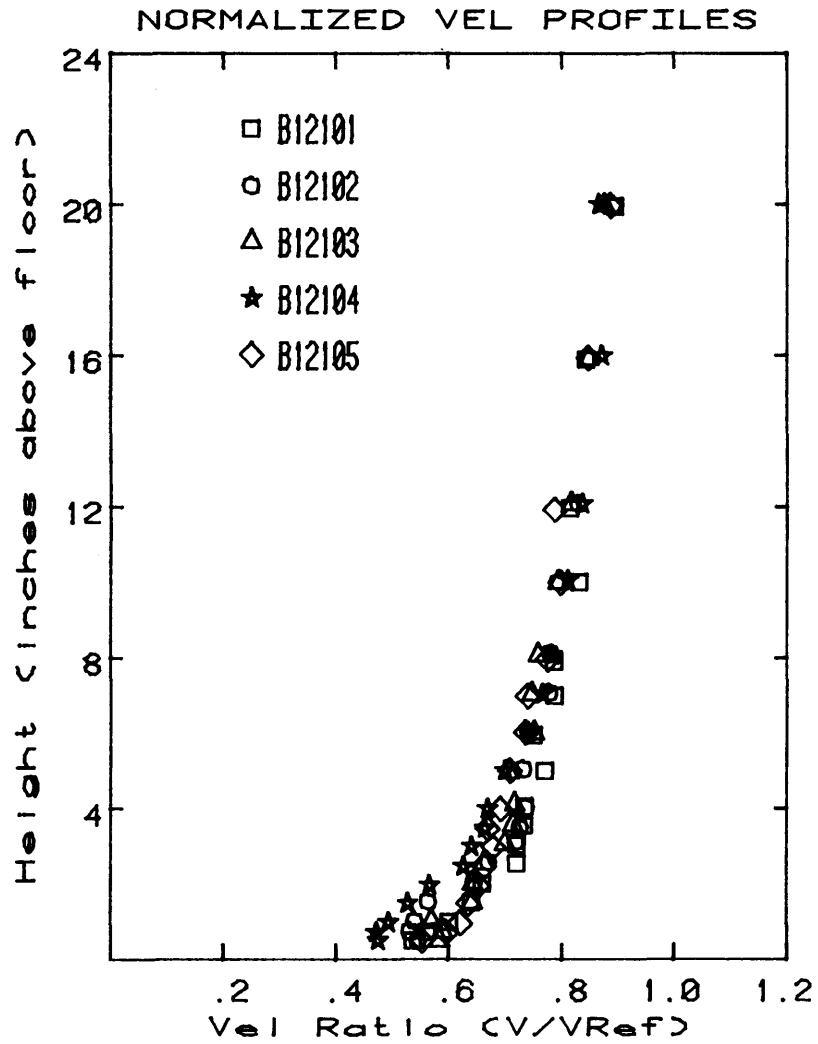
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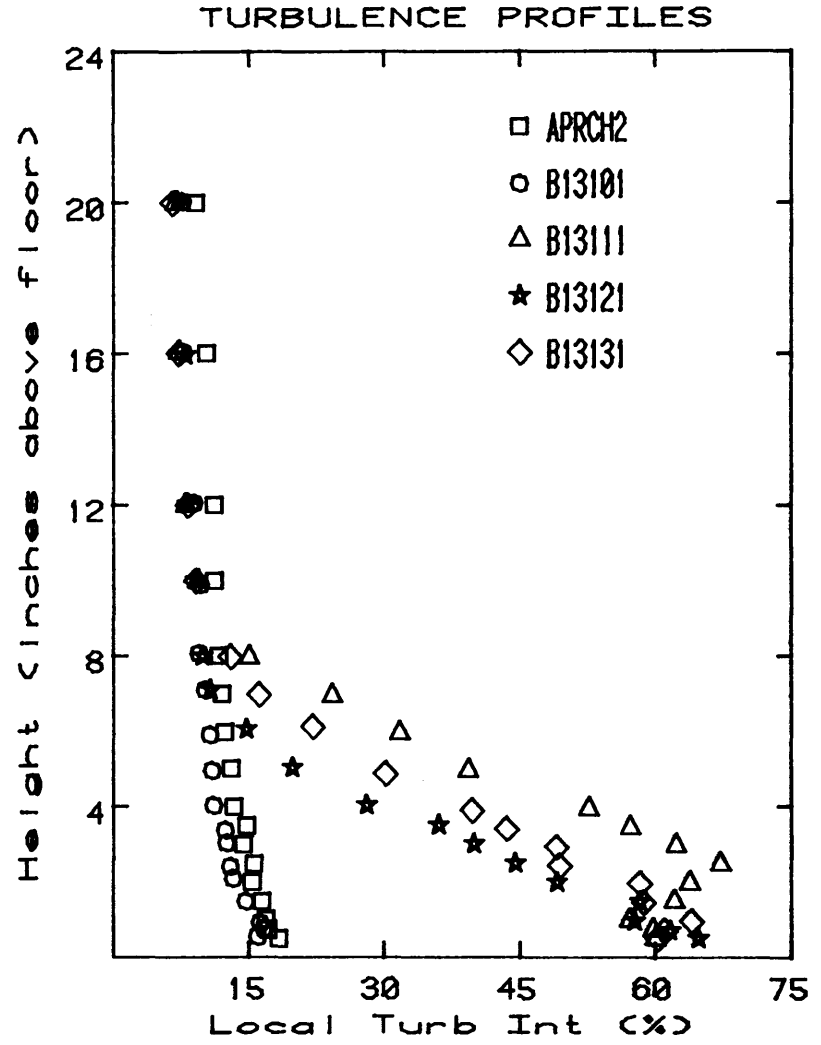
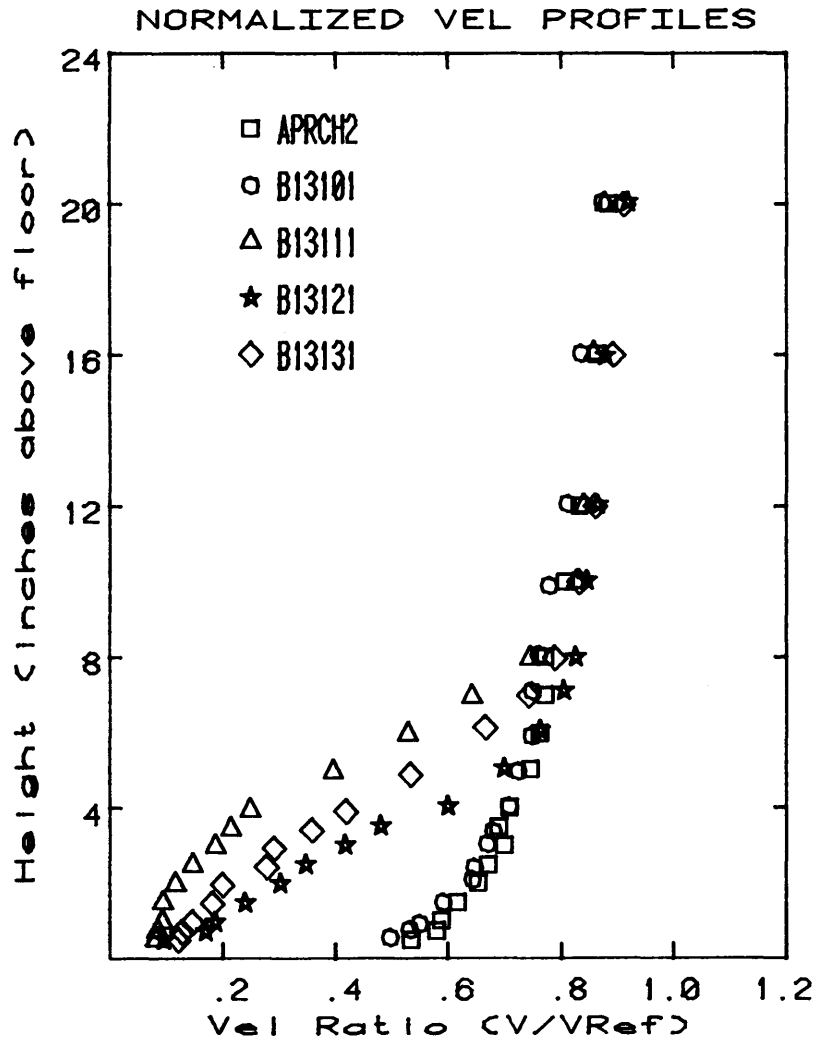
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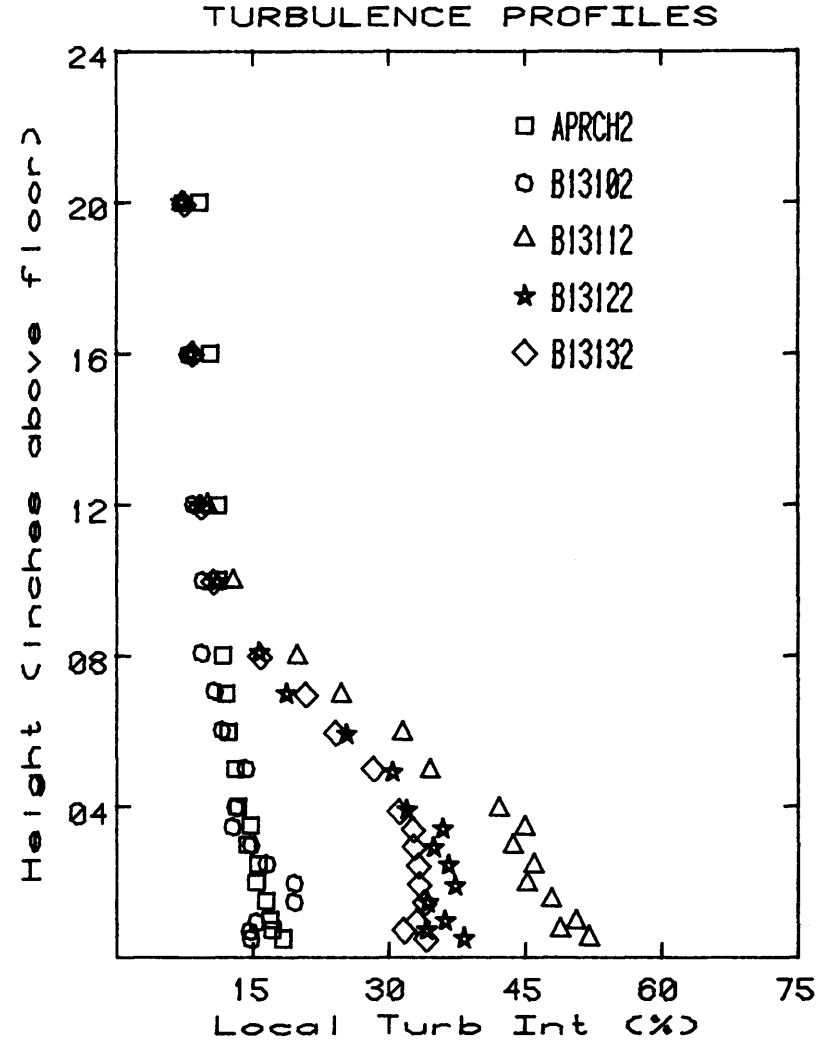
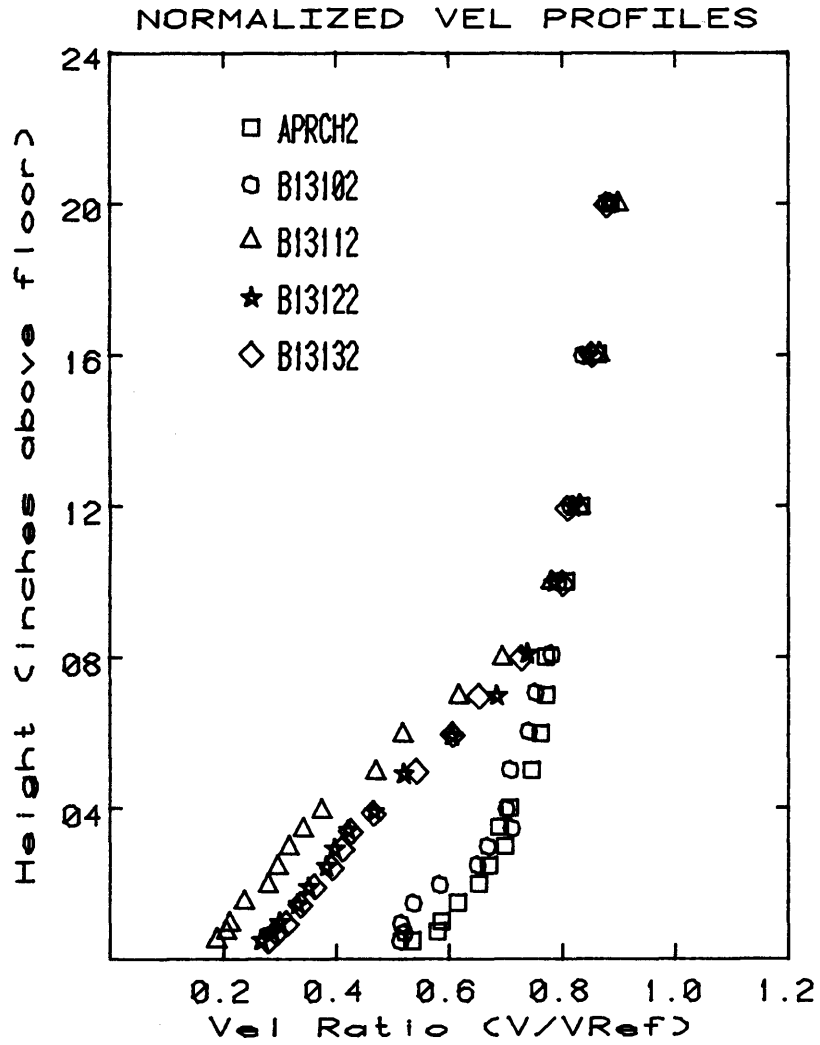
Graph # 3



Graph # 4

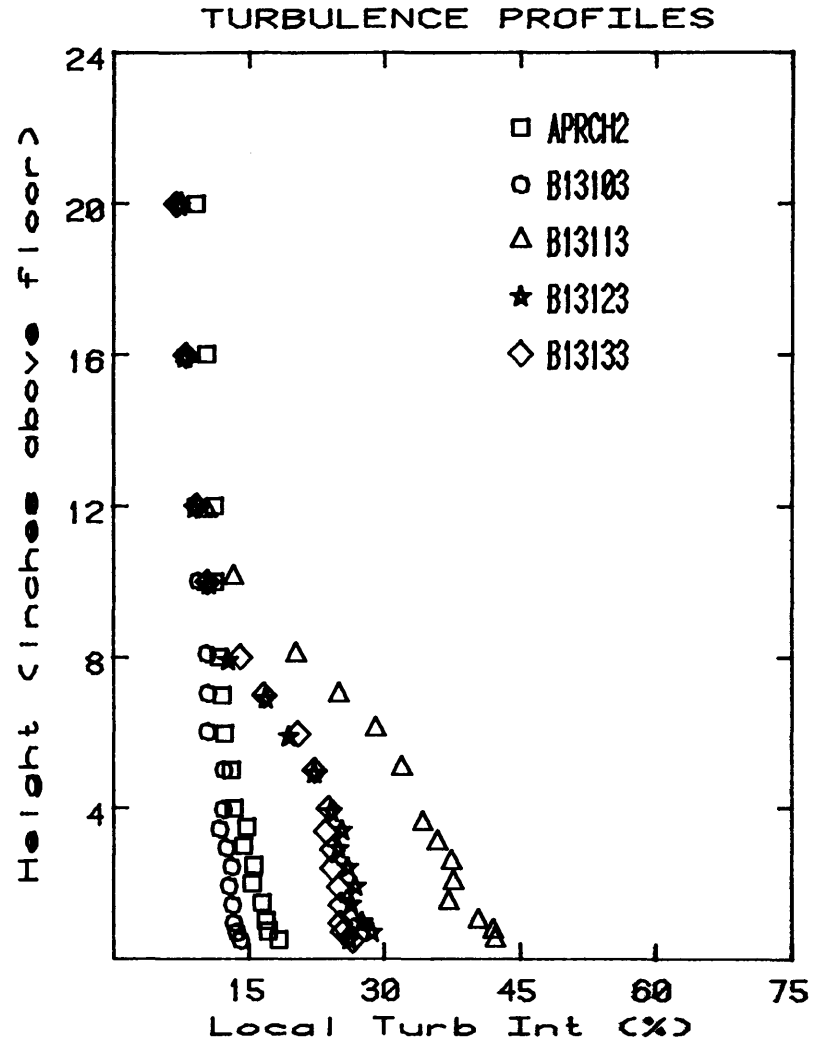
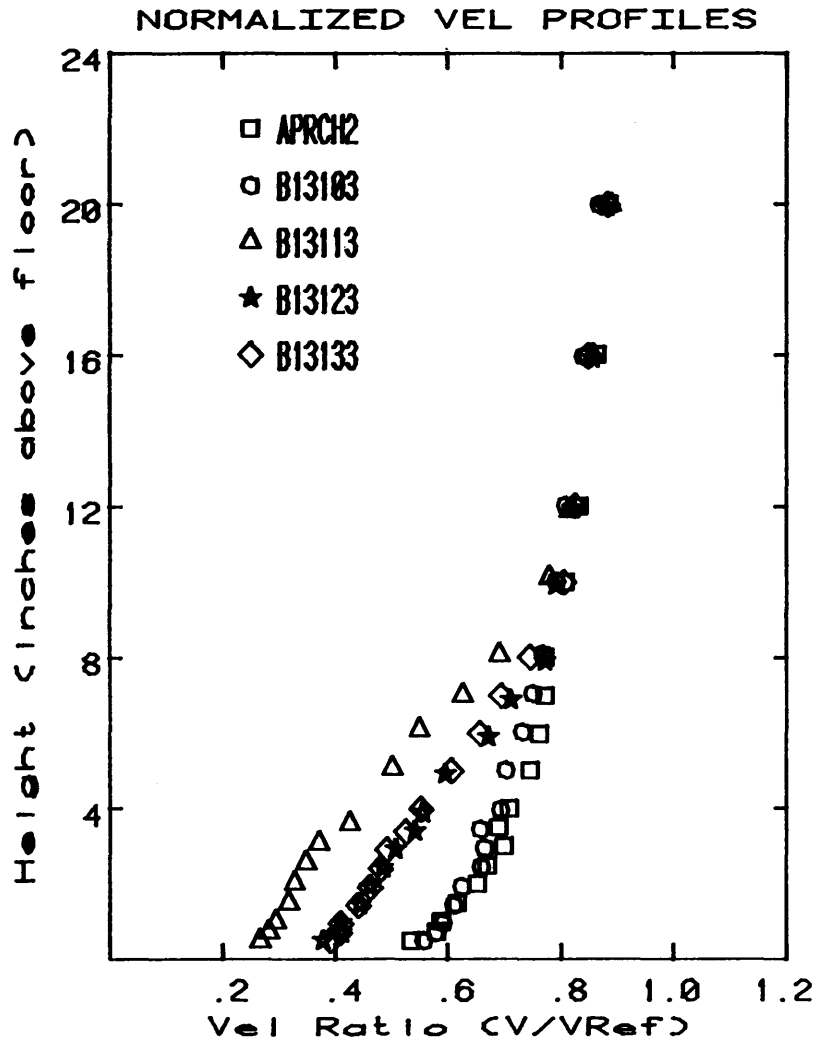


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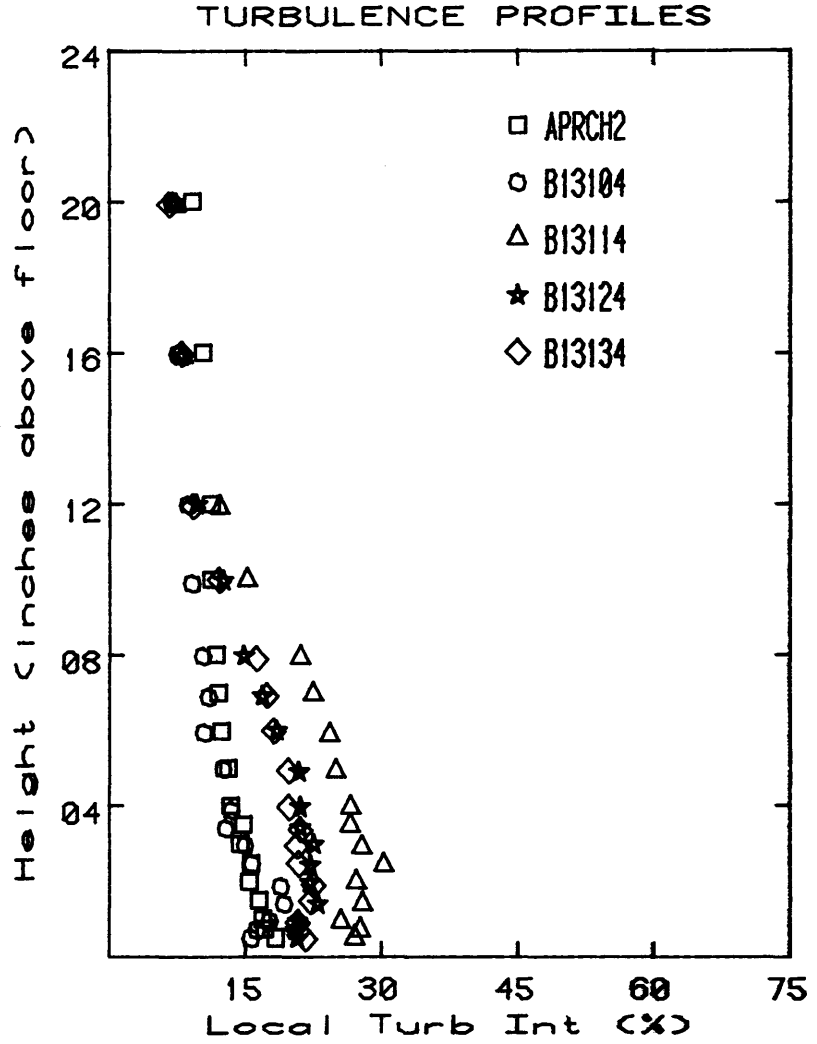
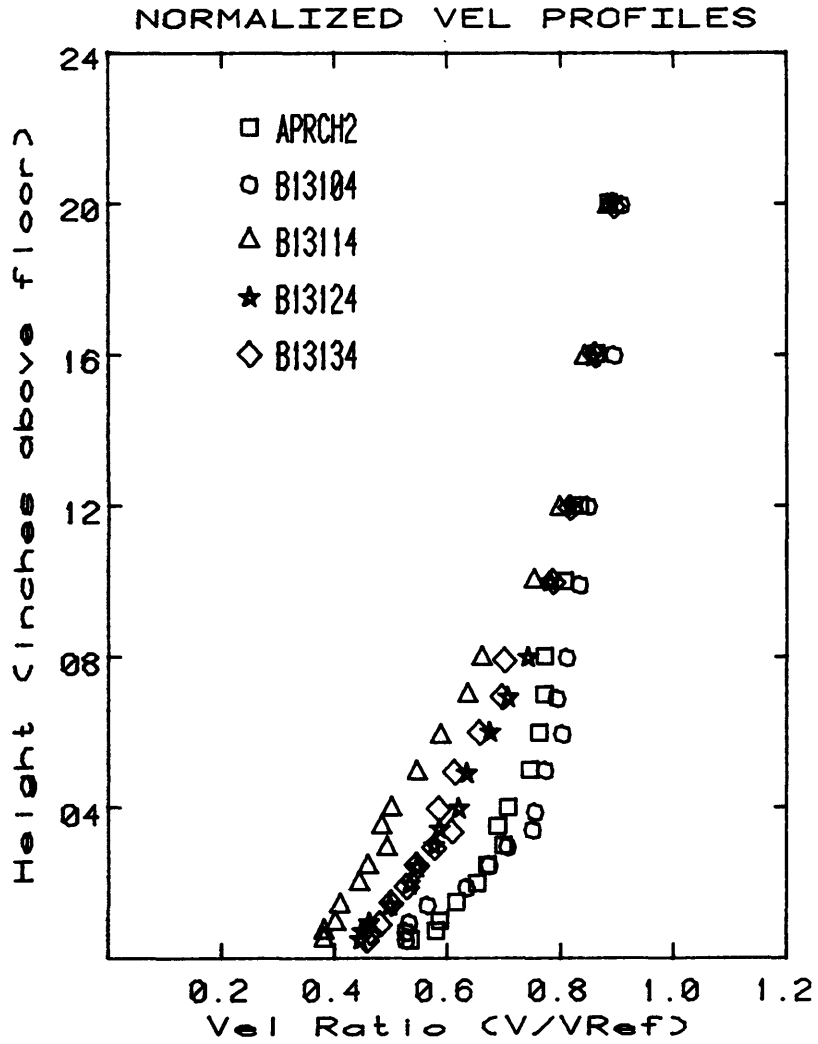




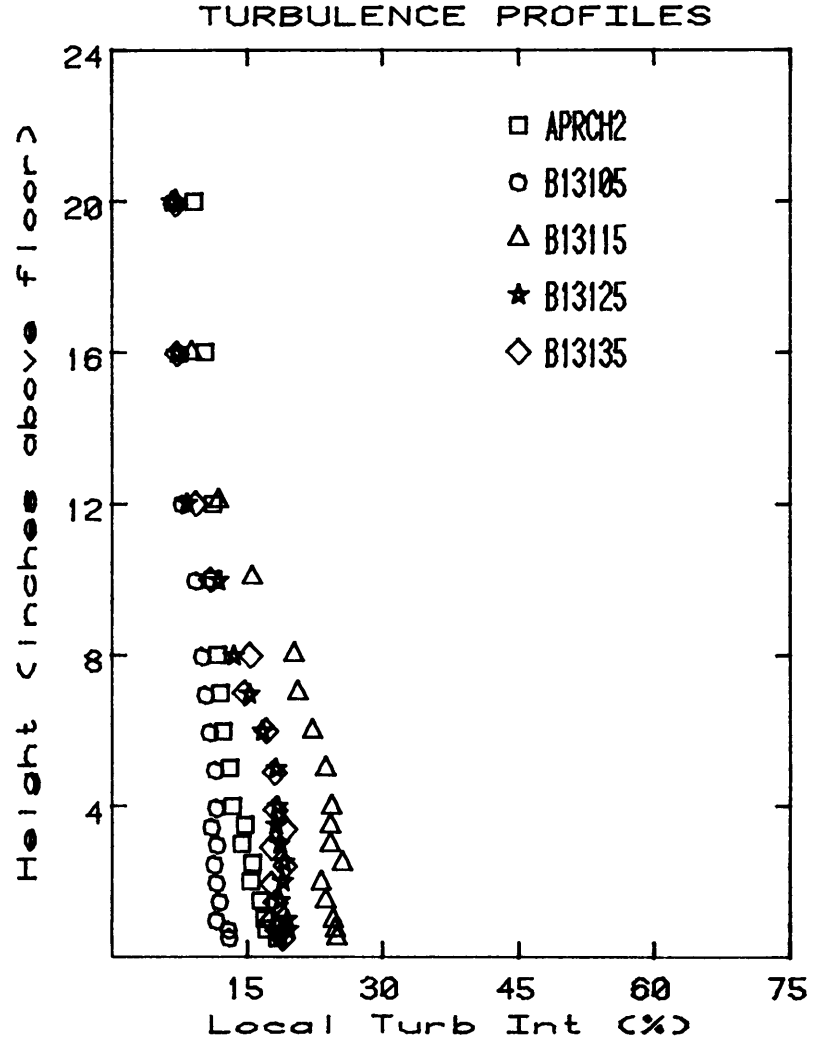
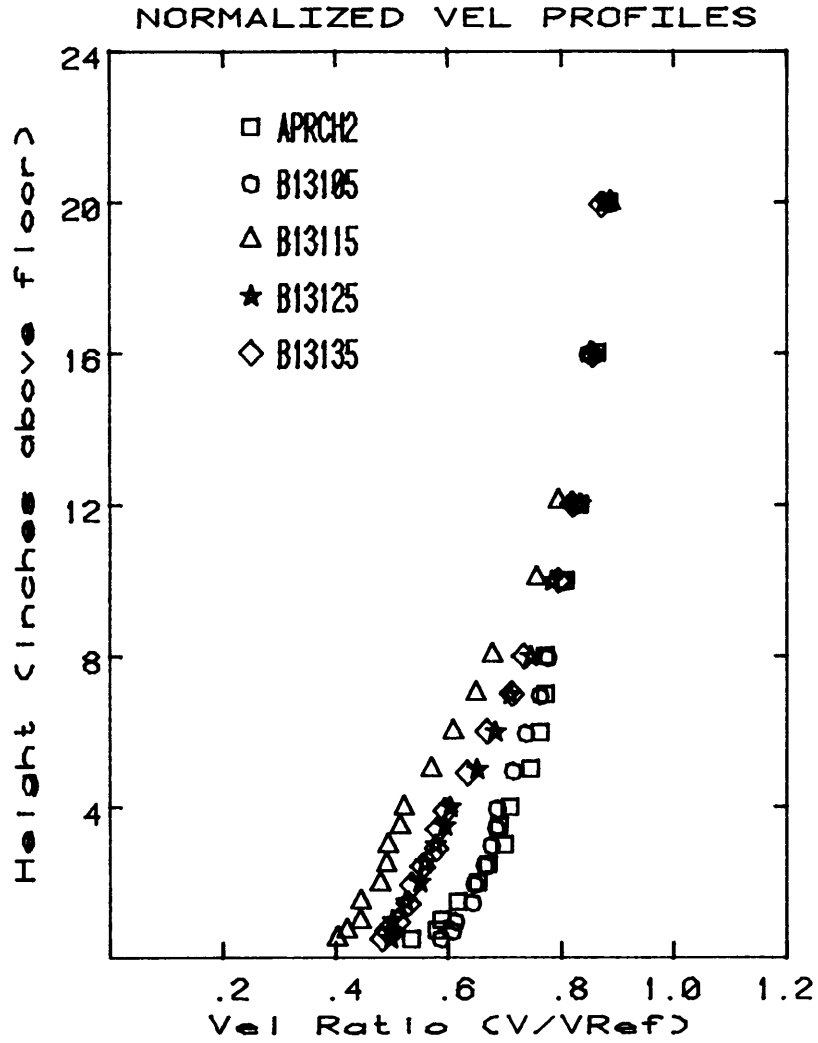
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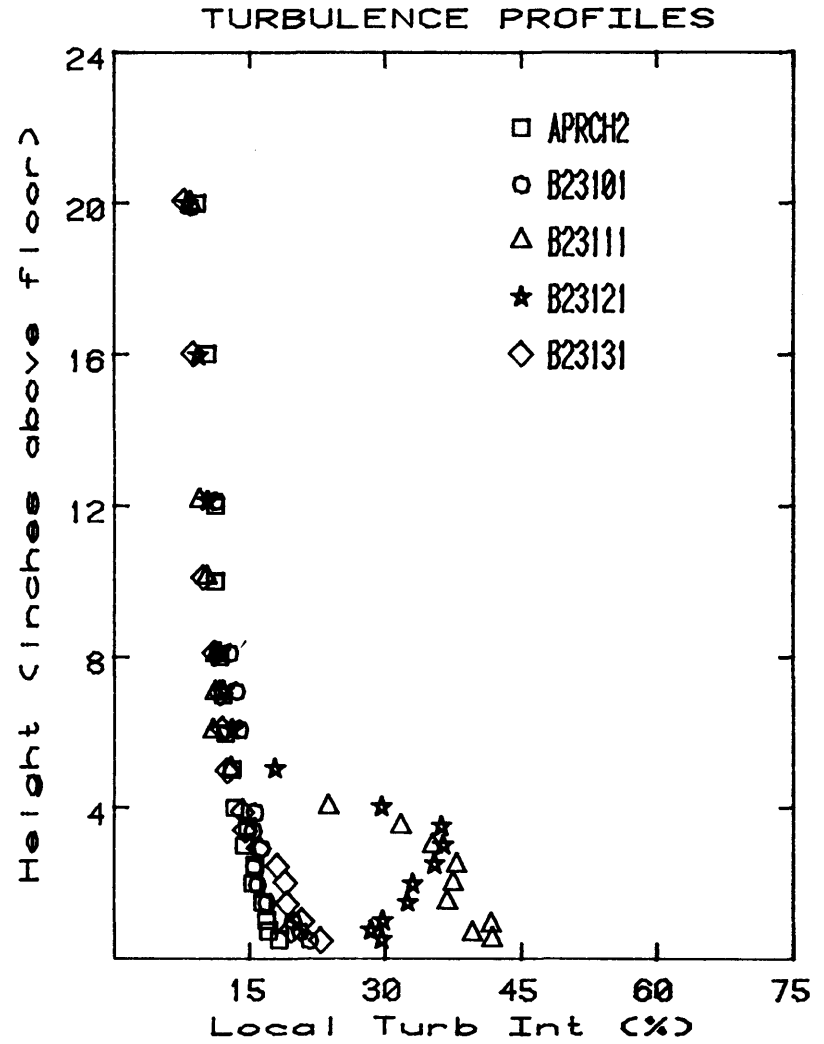
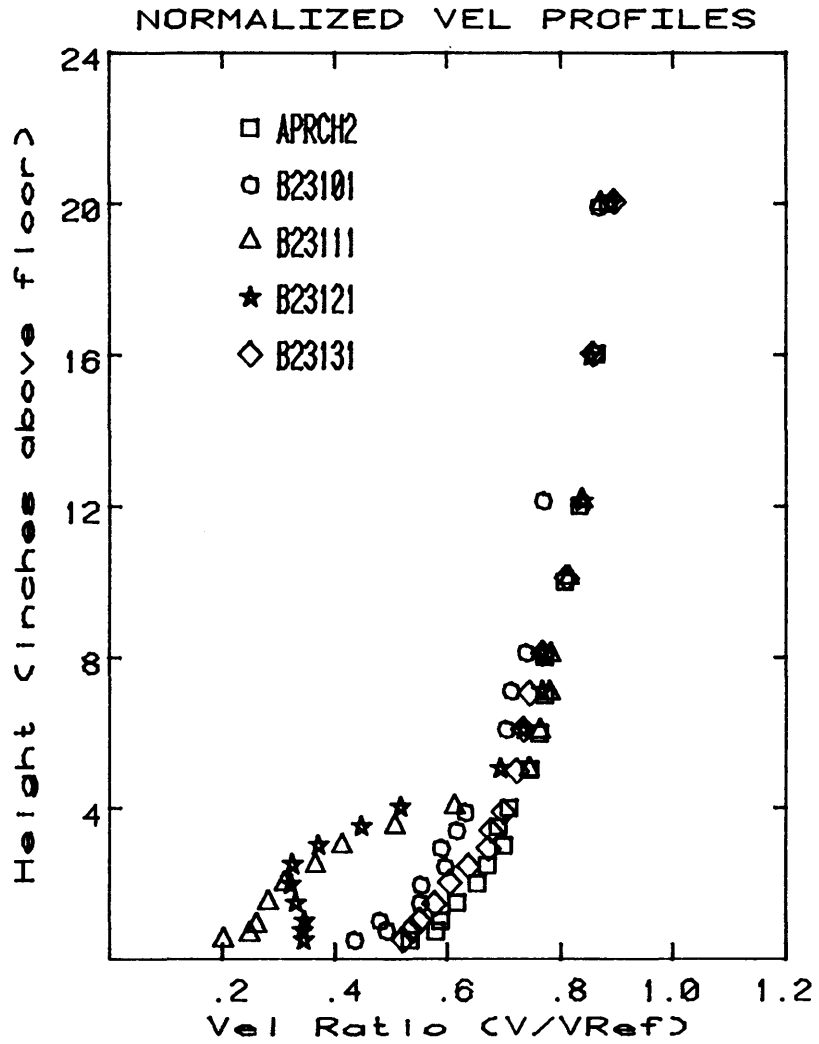
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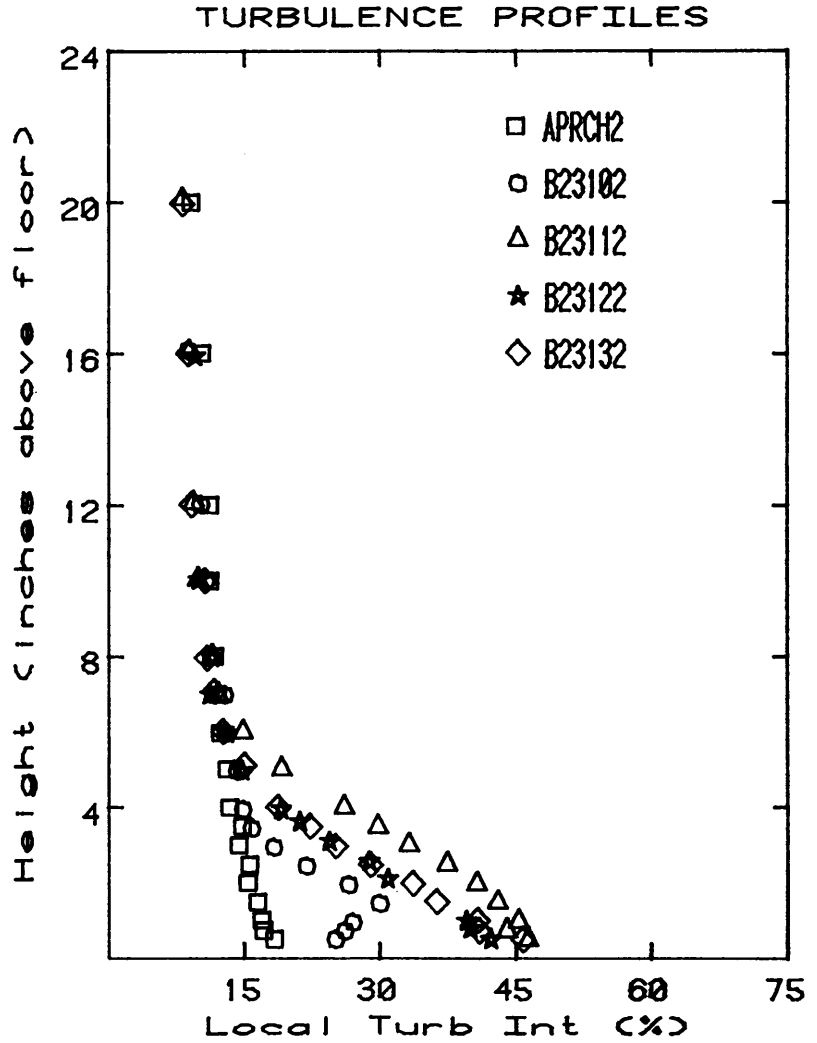
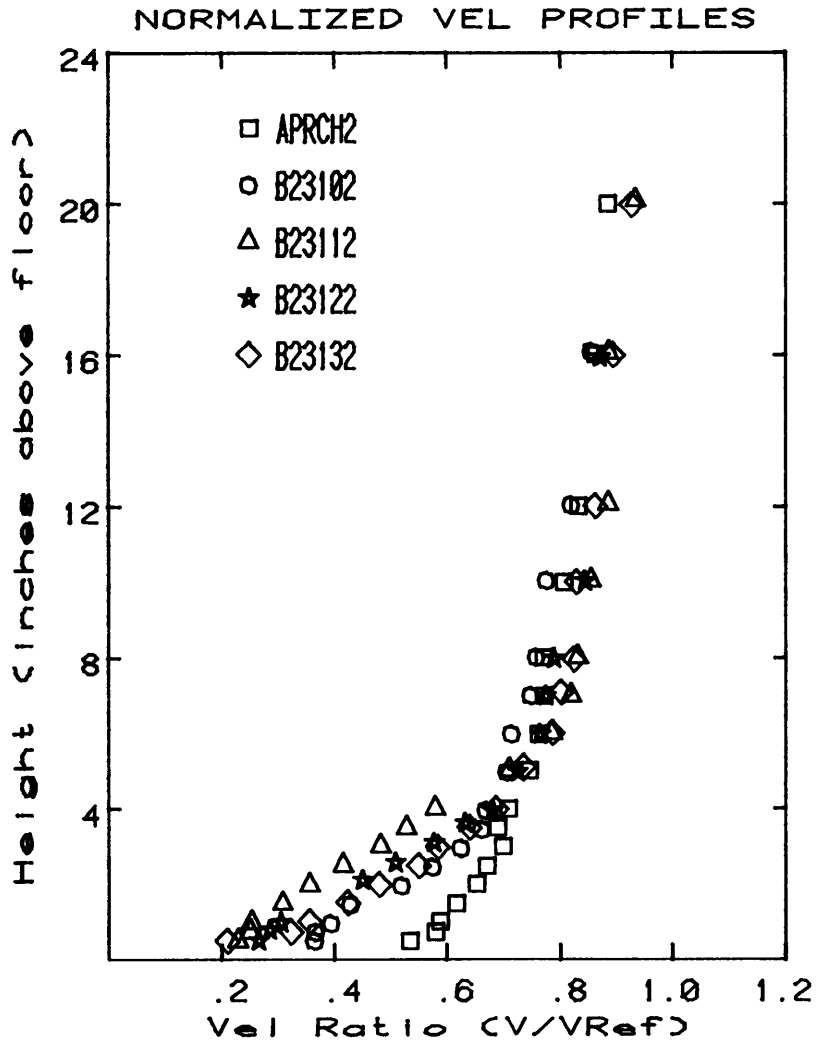
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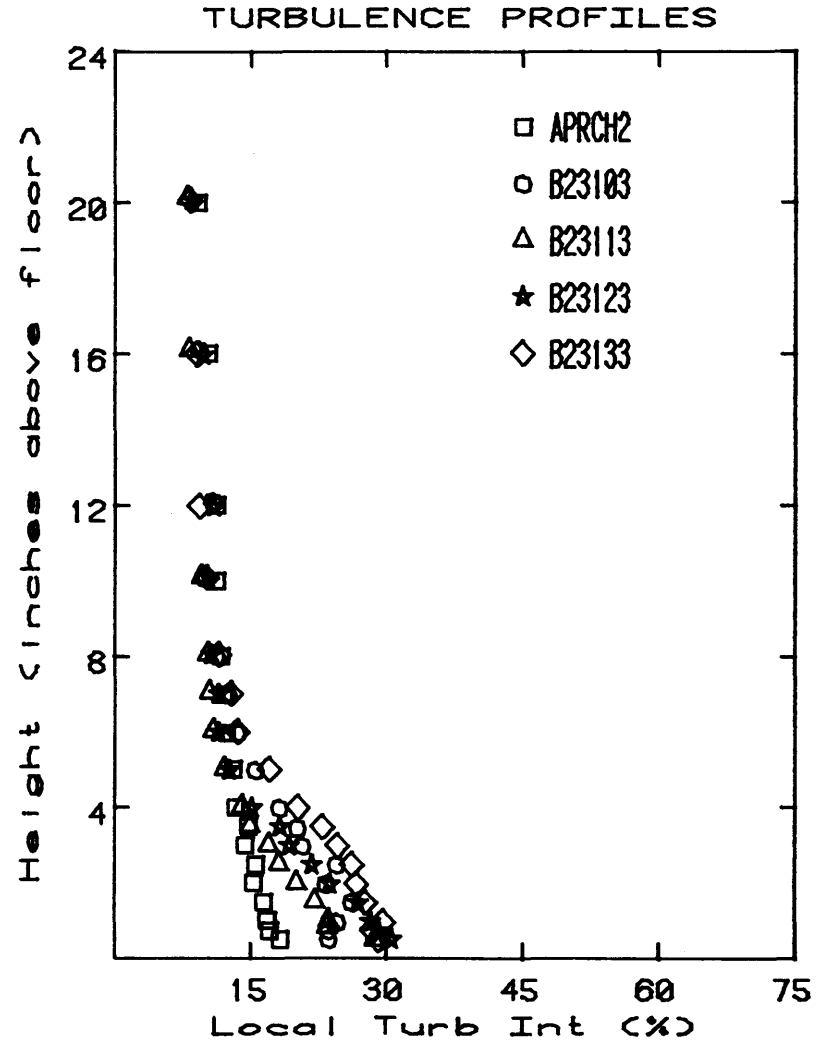
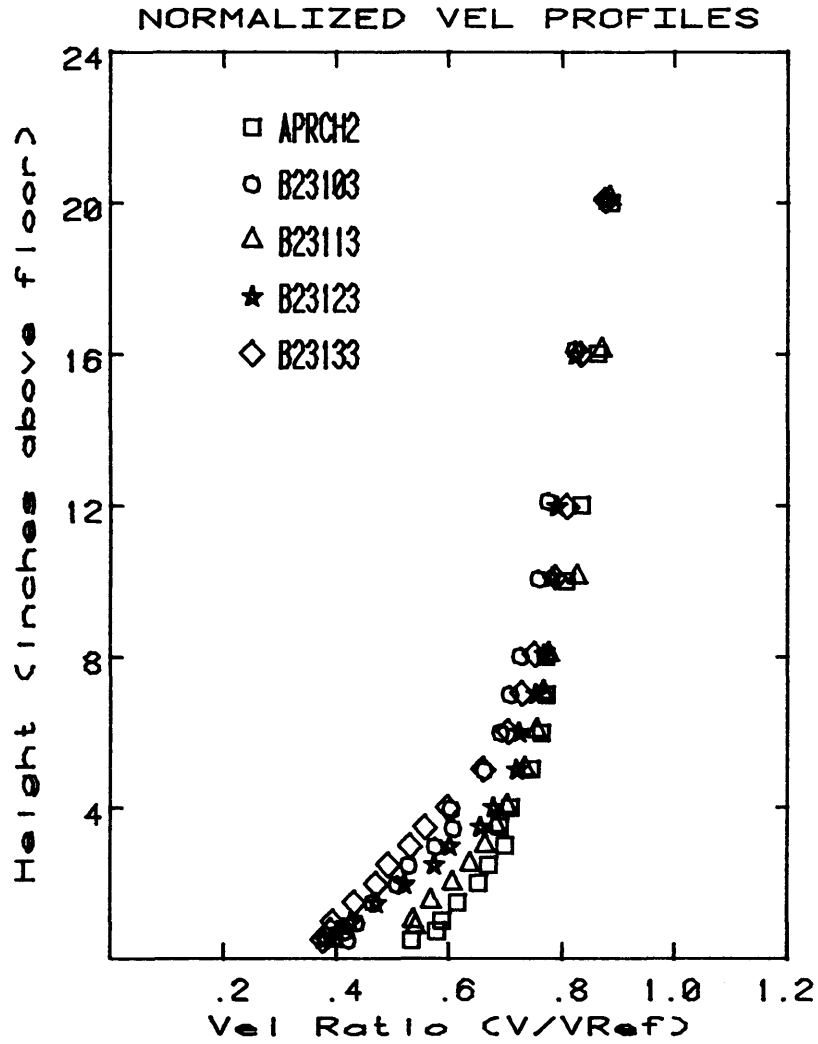
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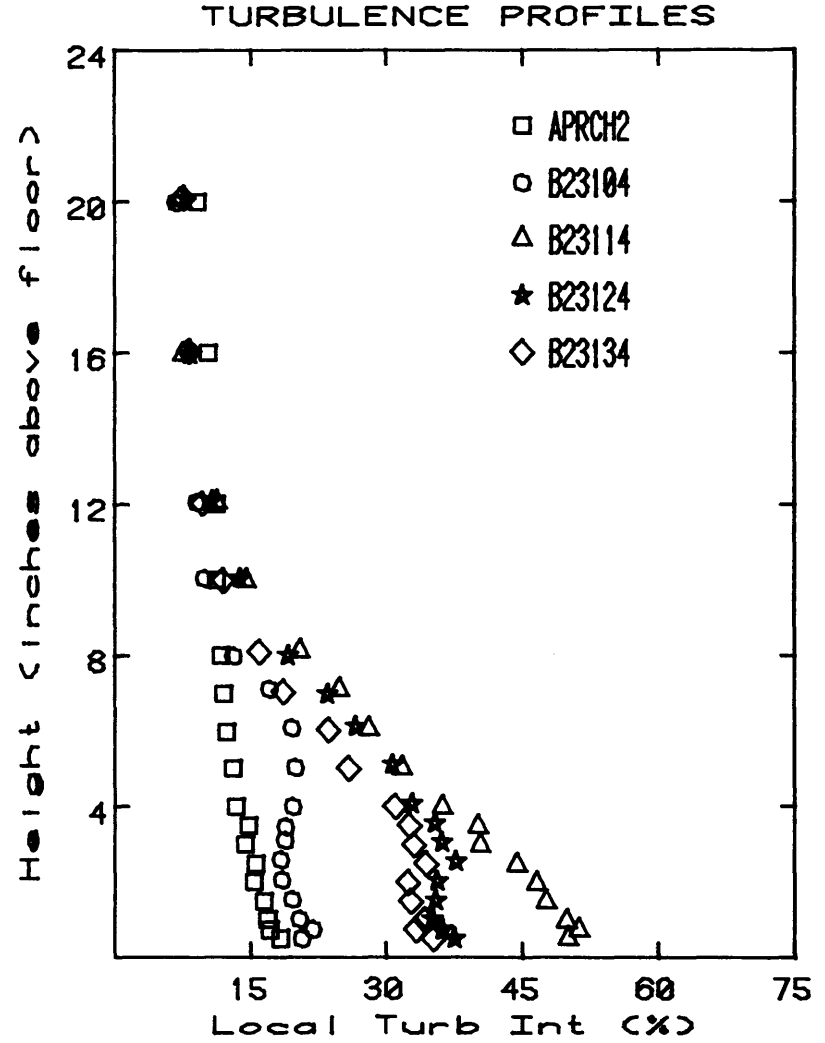
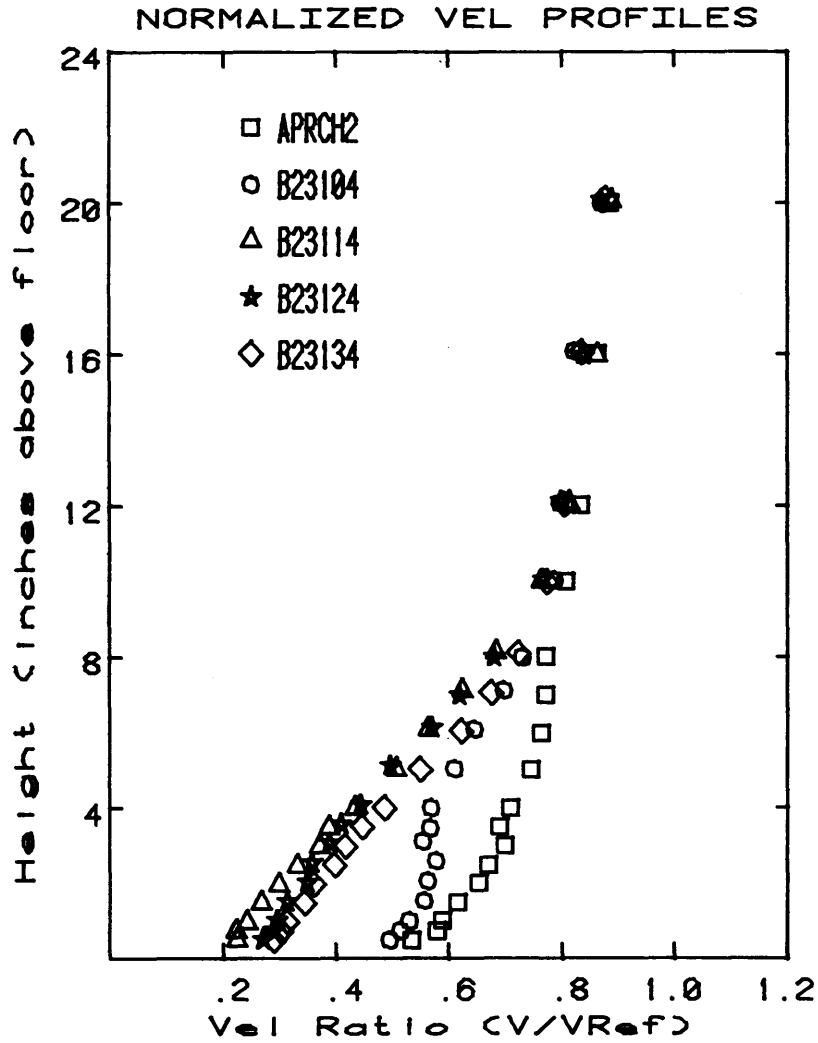
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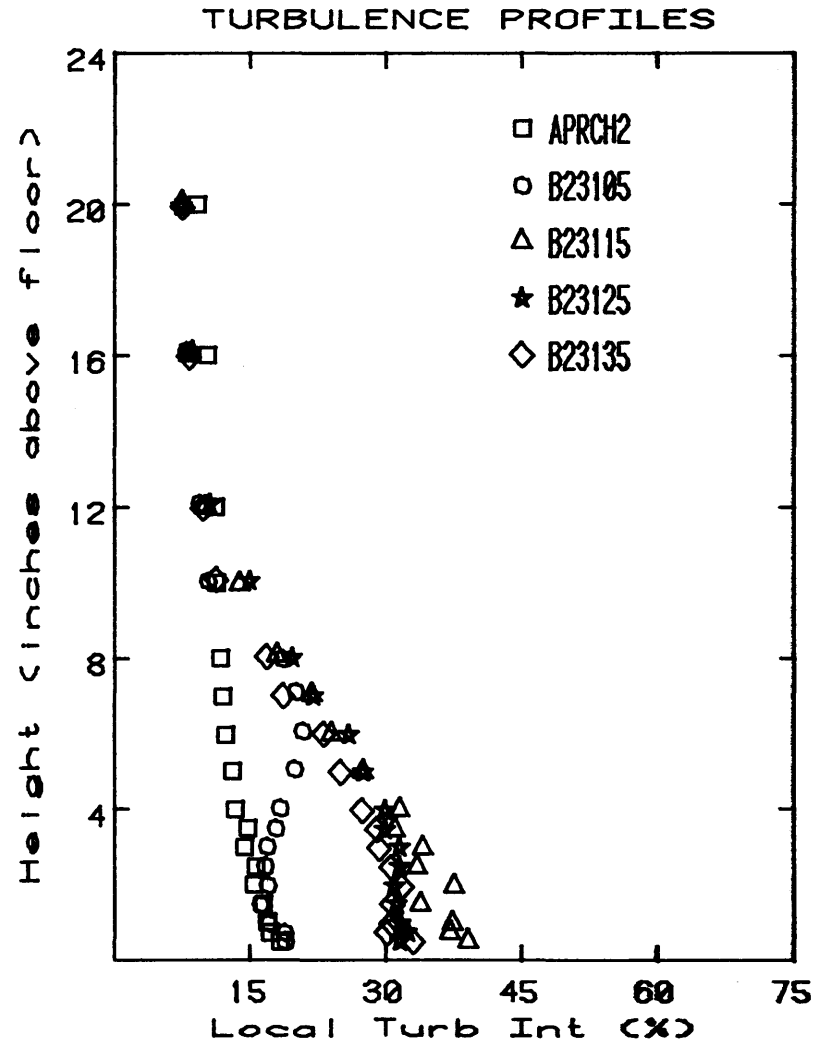
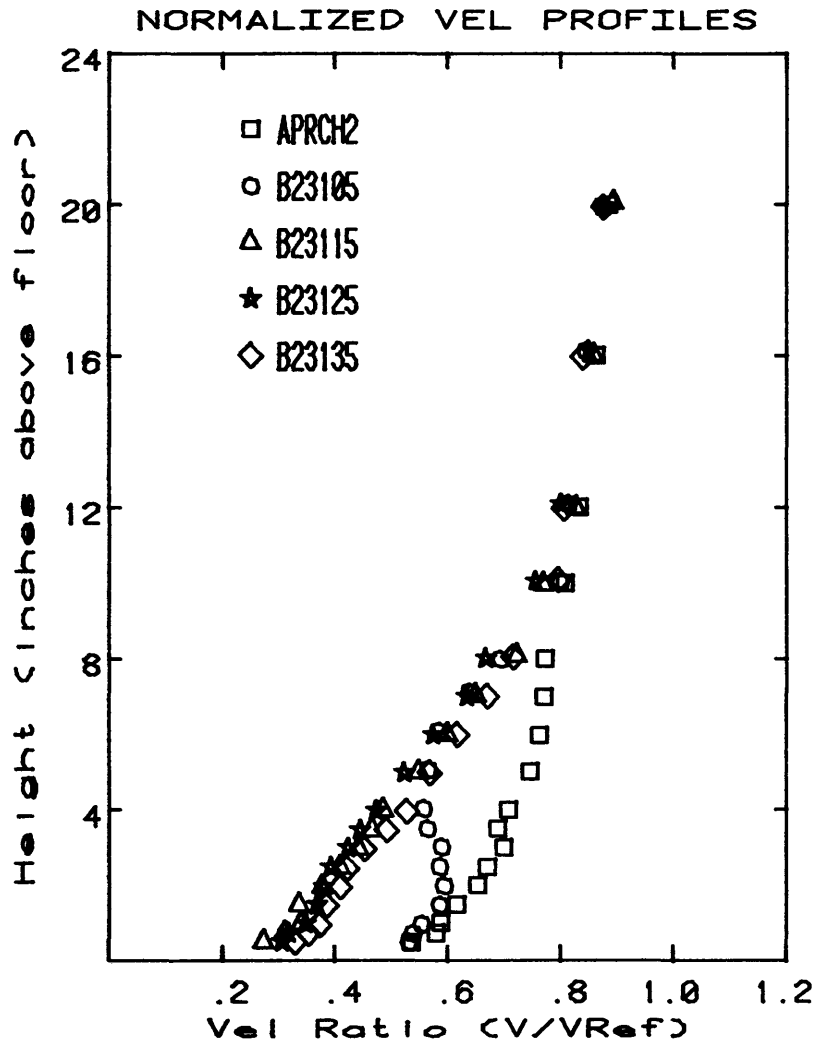
Graph # 11



Graph # 12

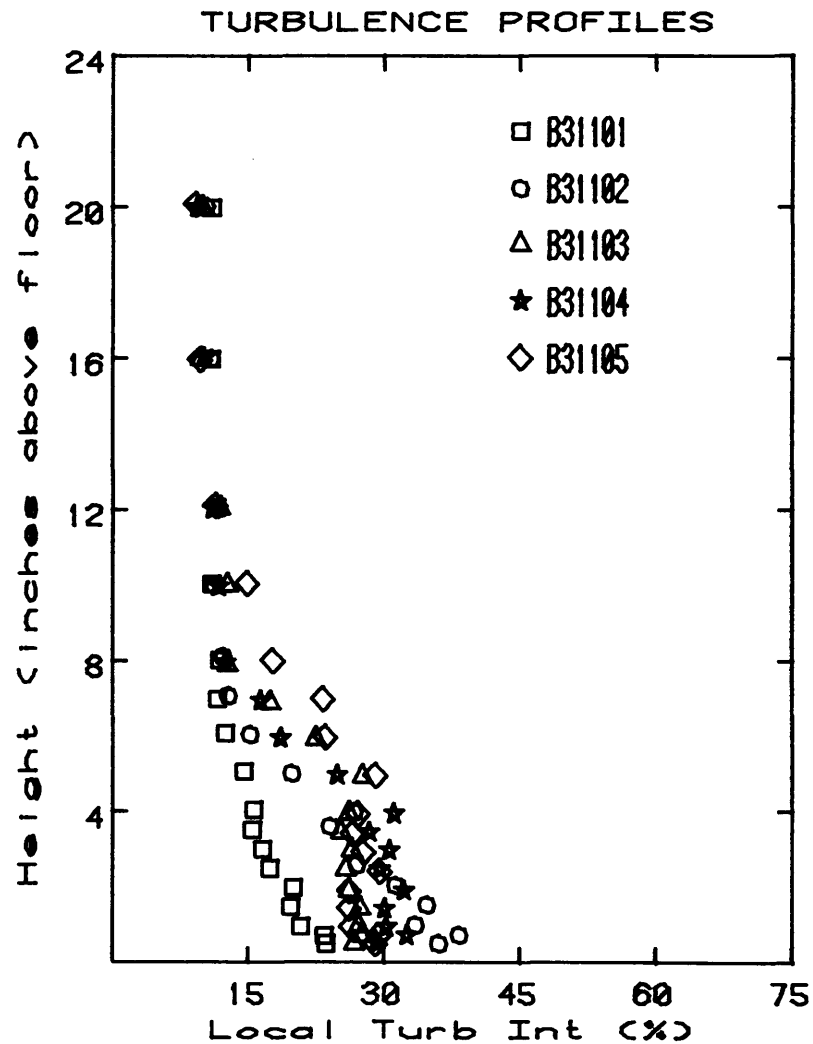
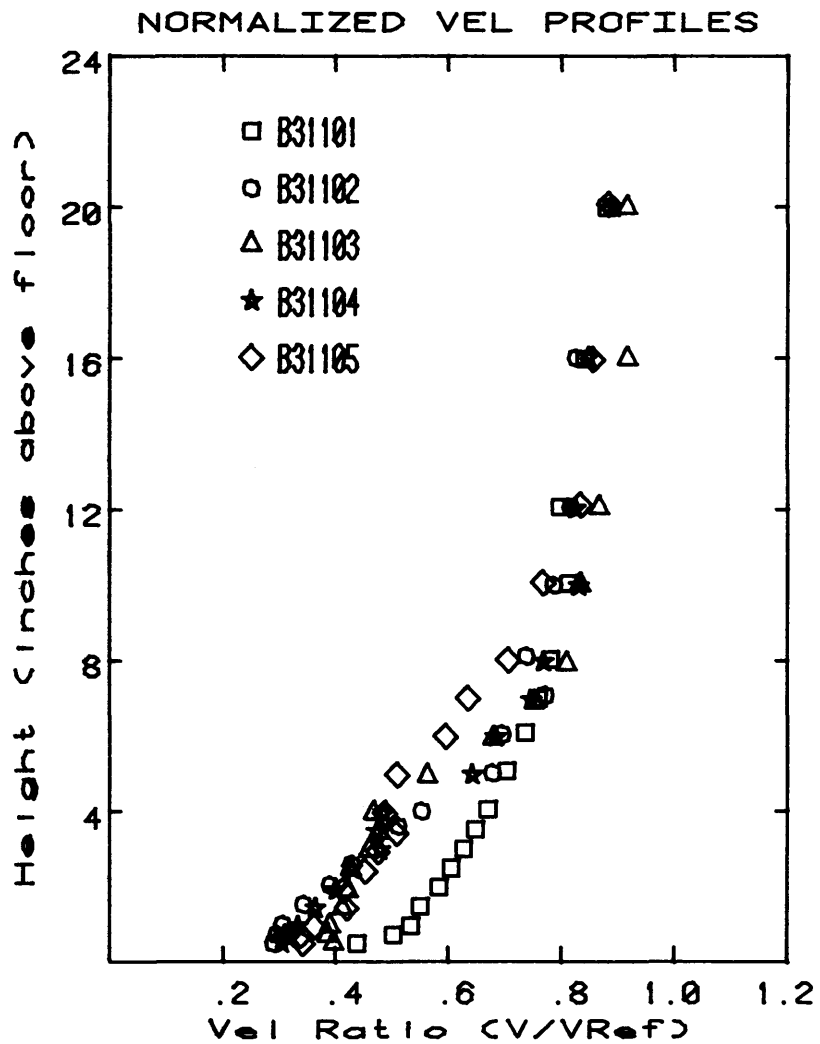


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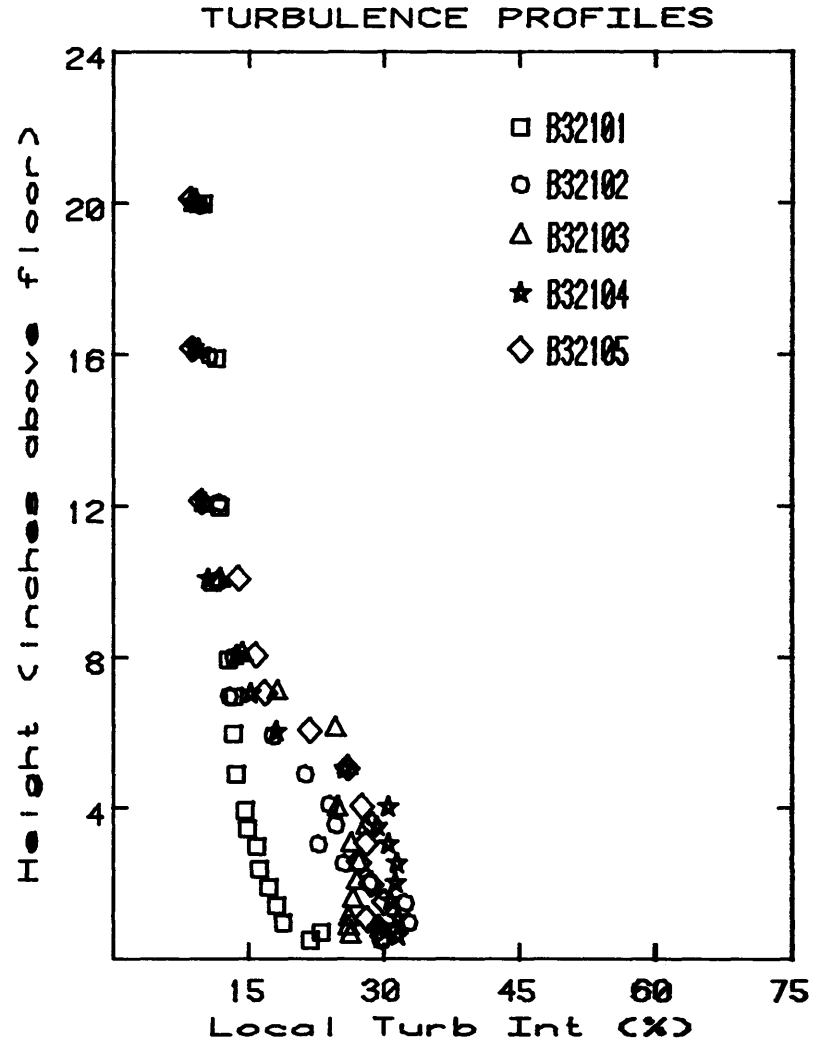
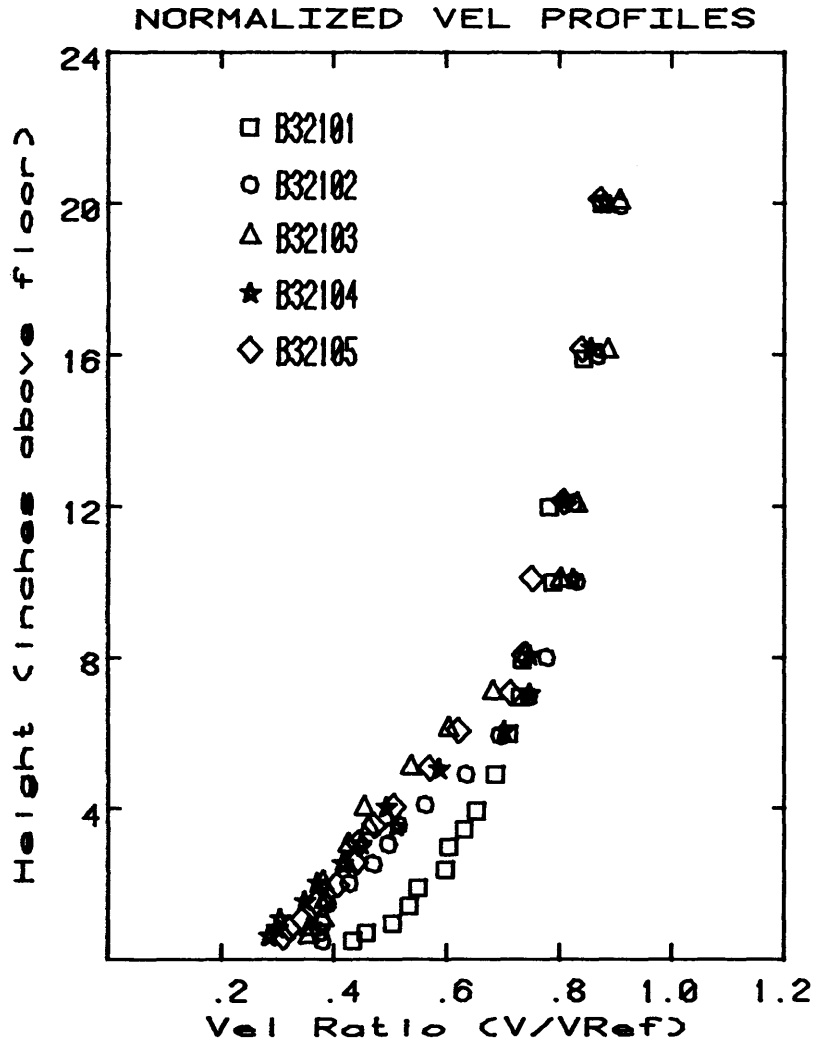




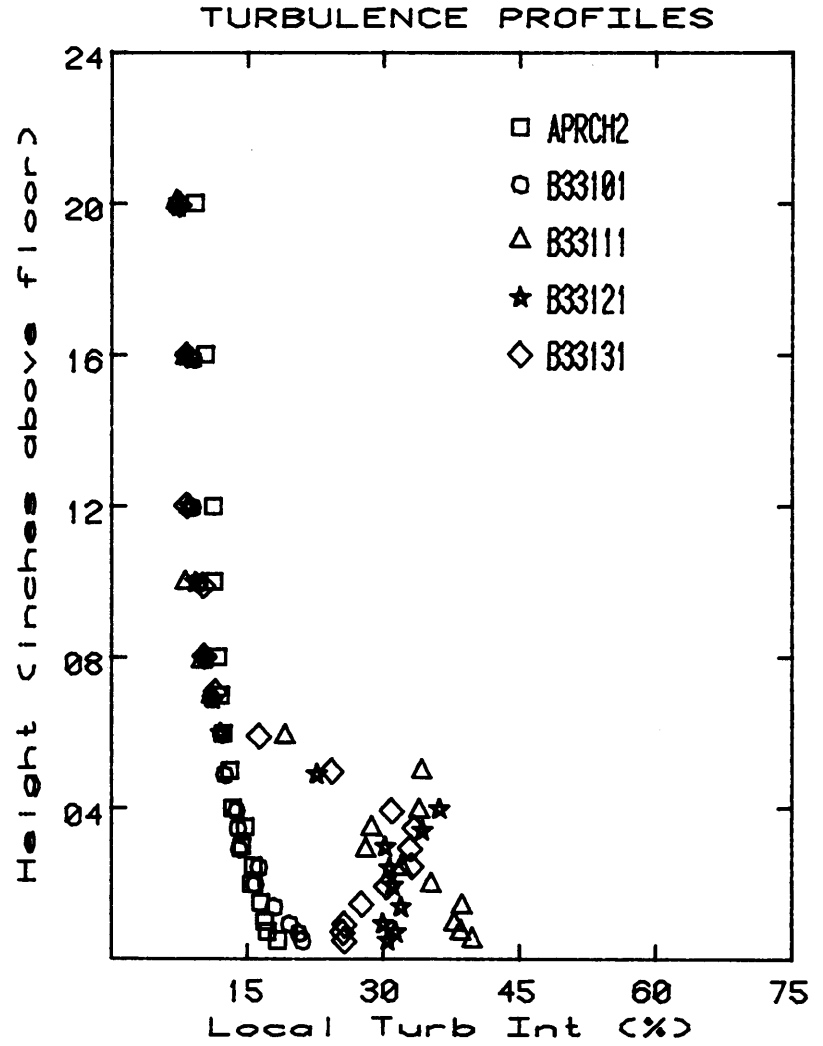
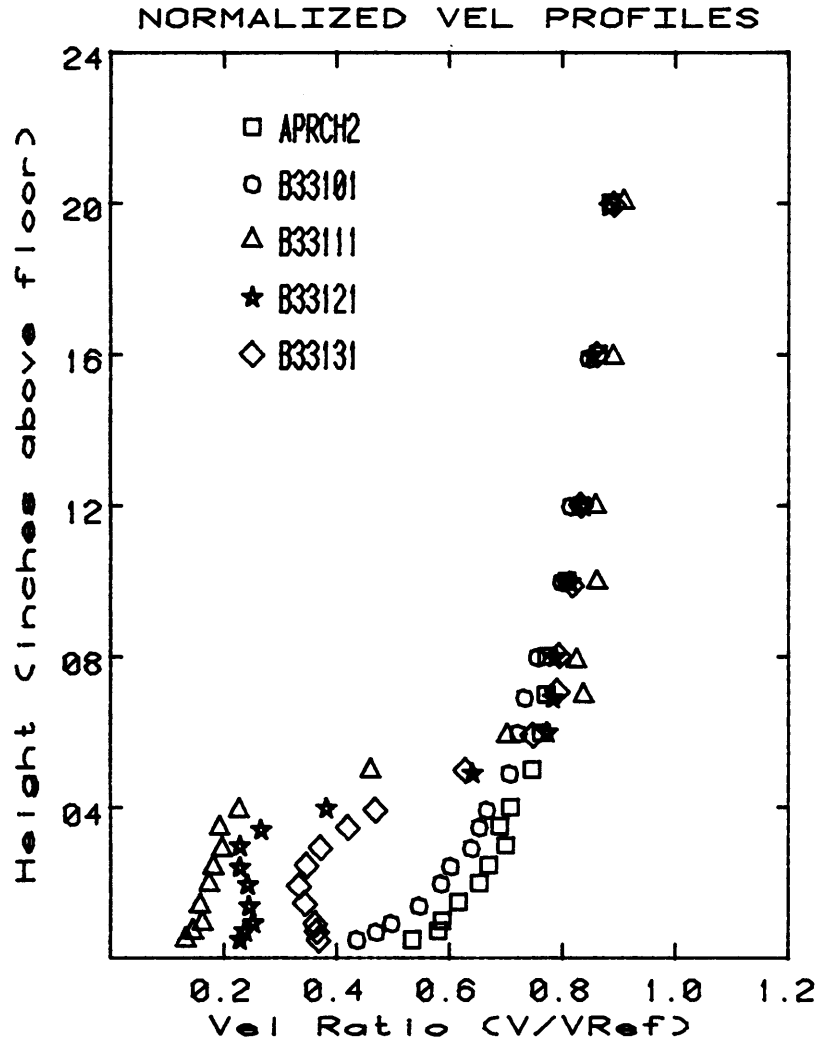
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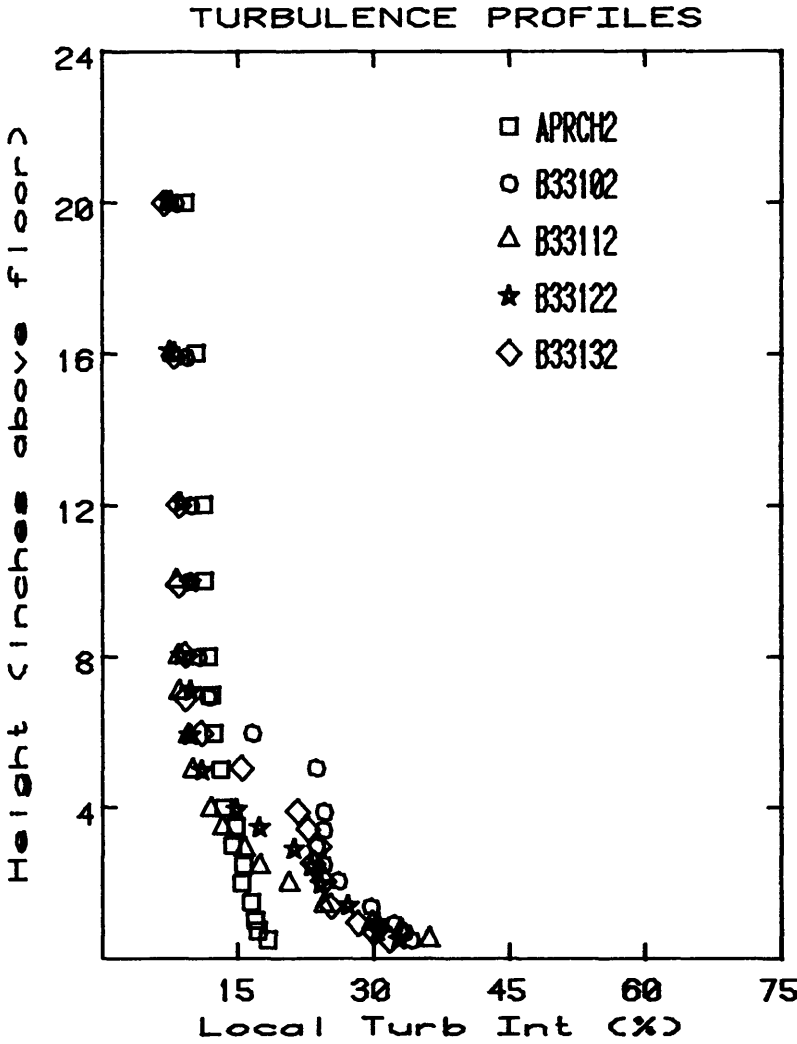
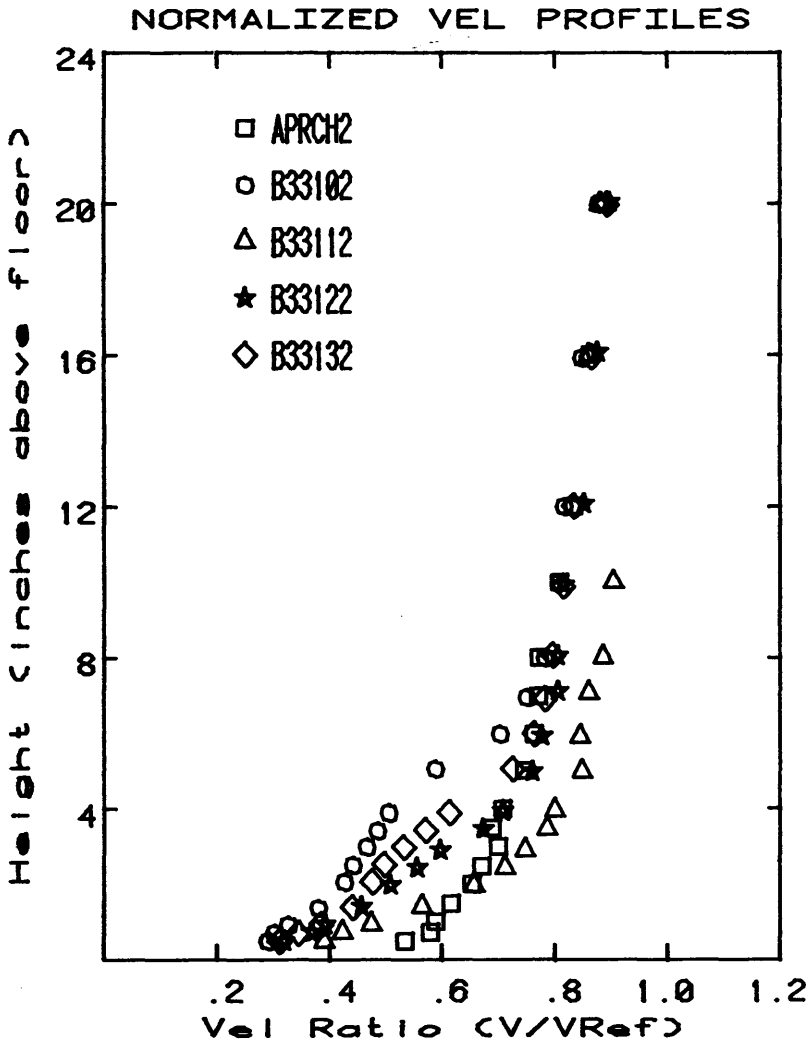
Graph # 15



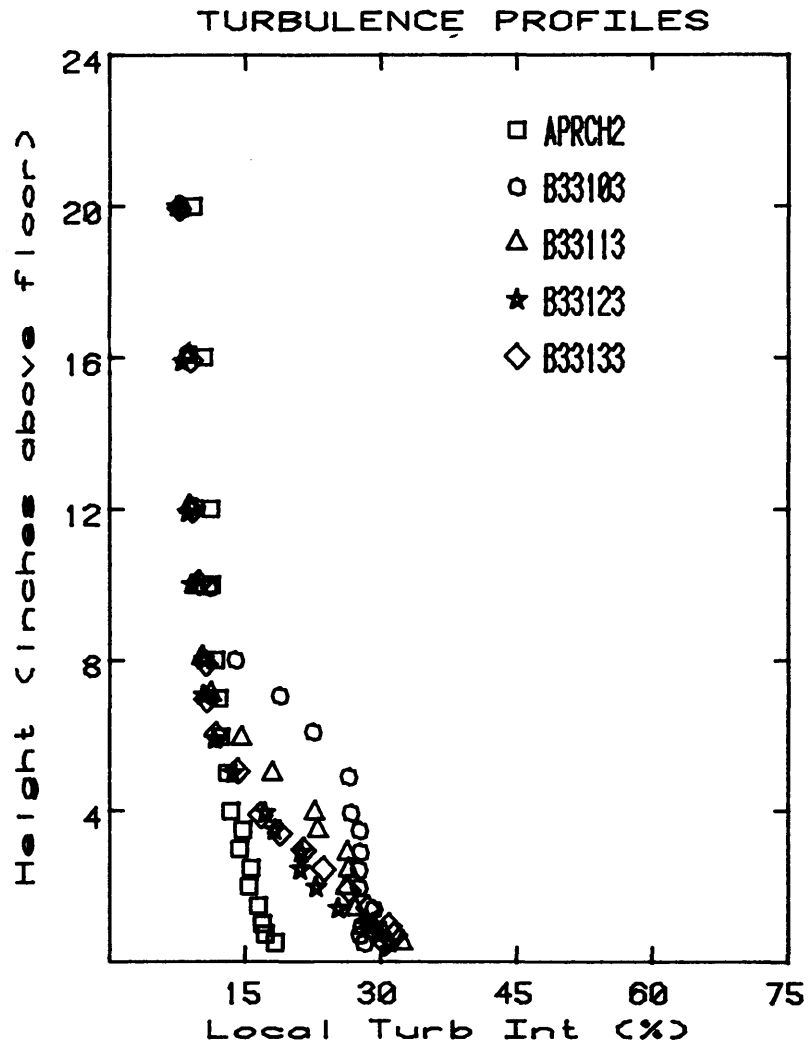
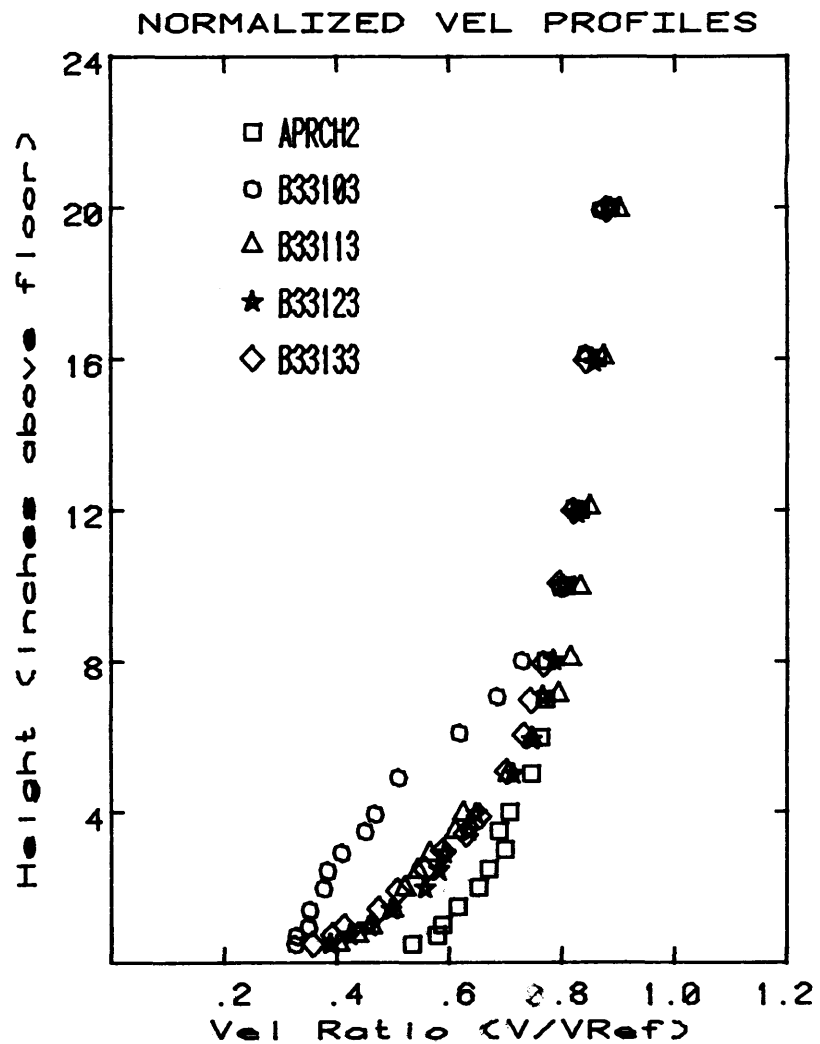
Graph # 16



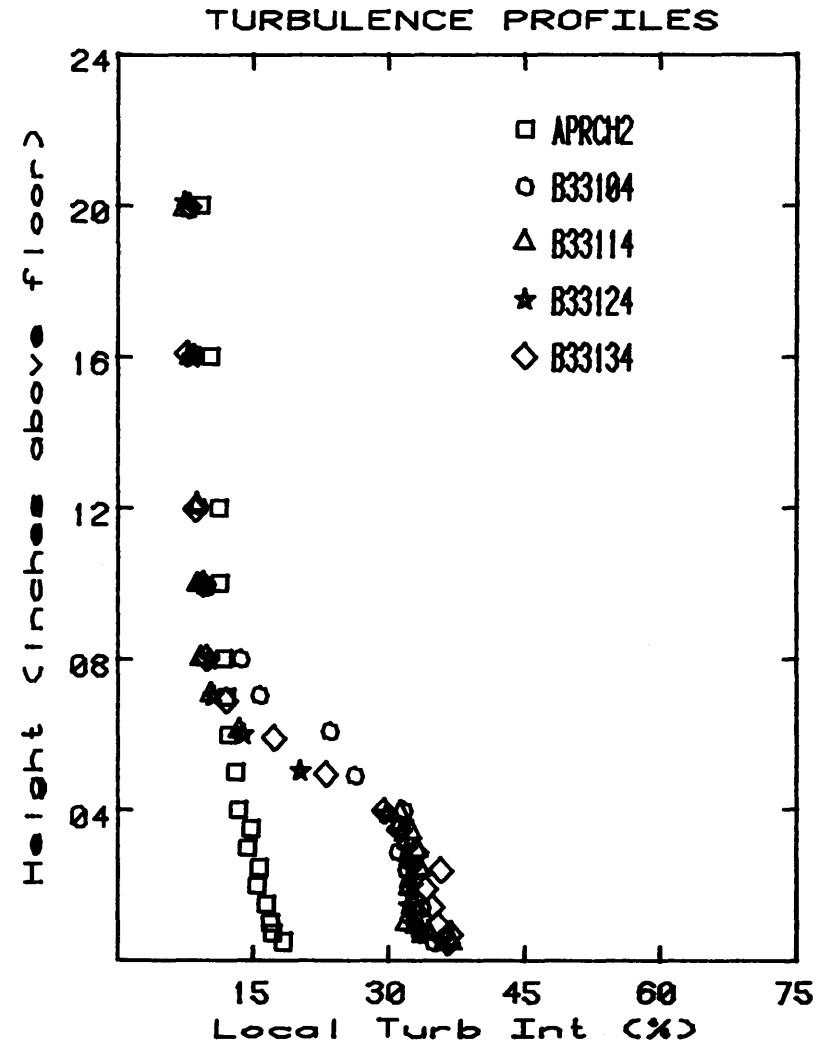
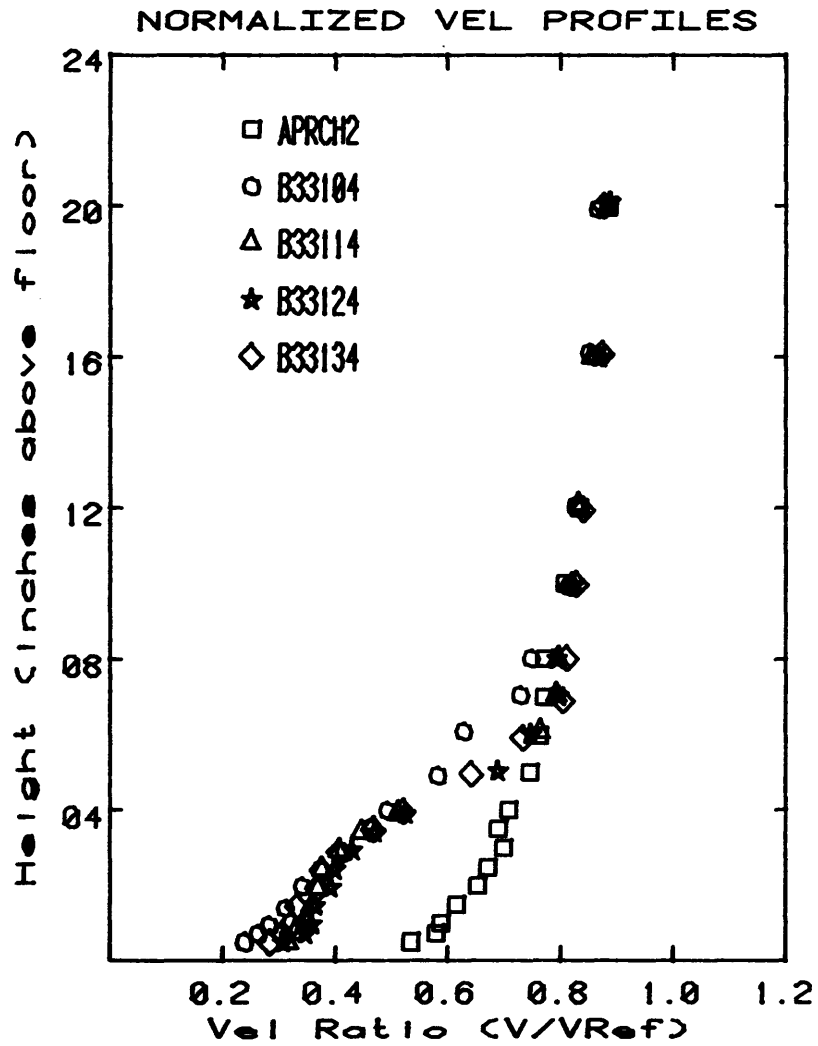
Graph # 17



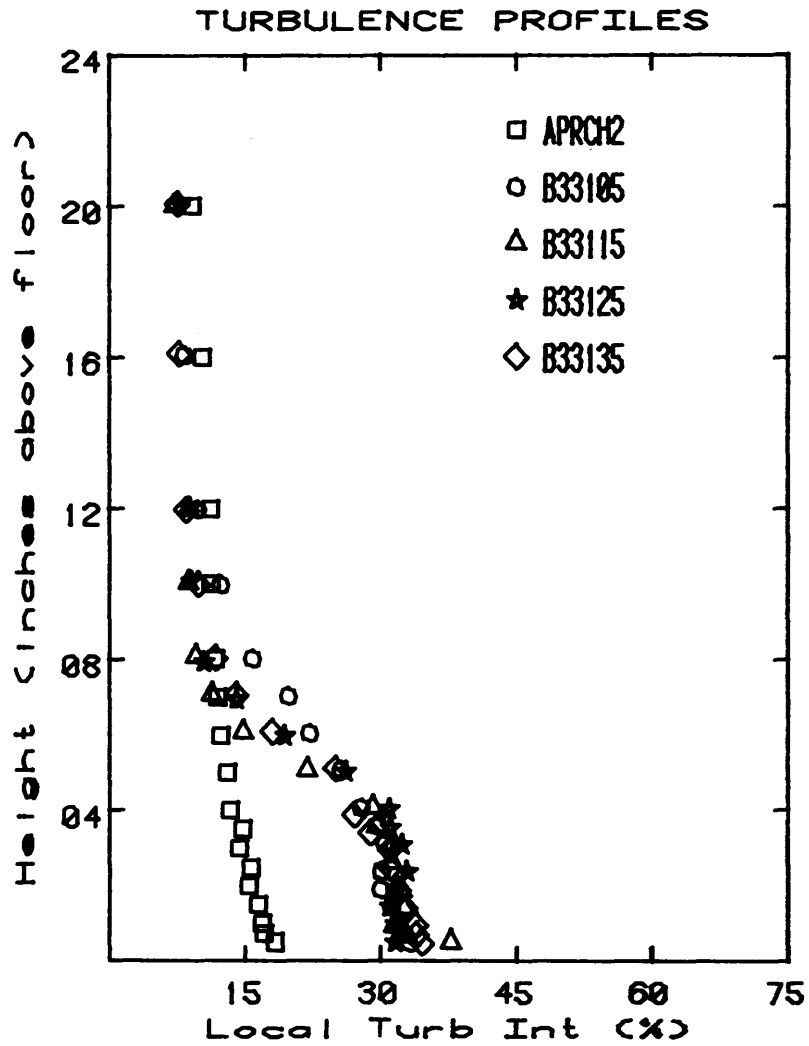
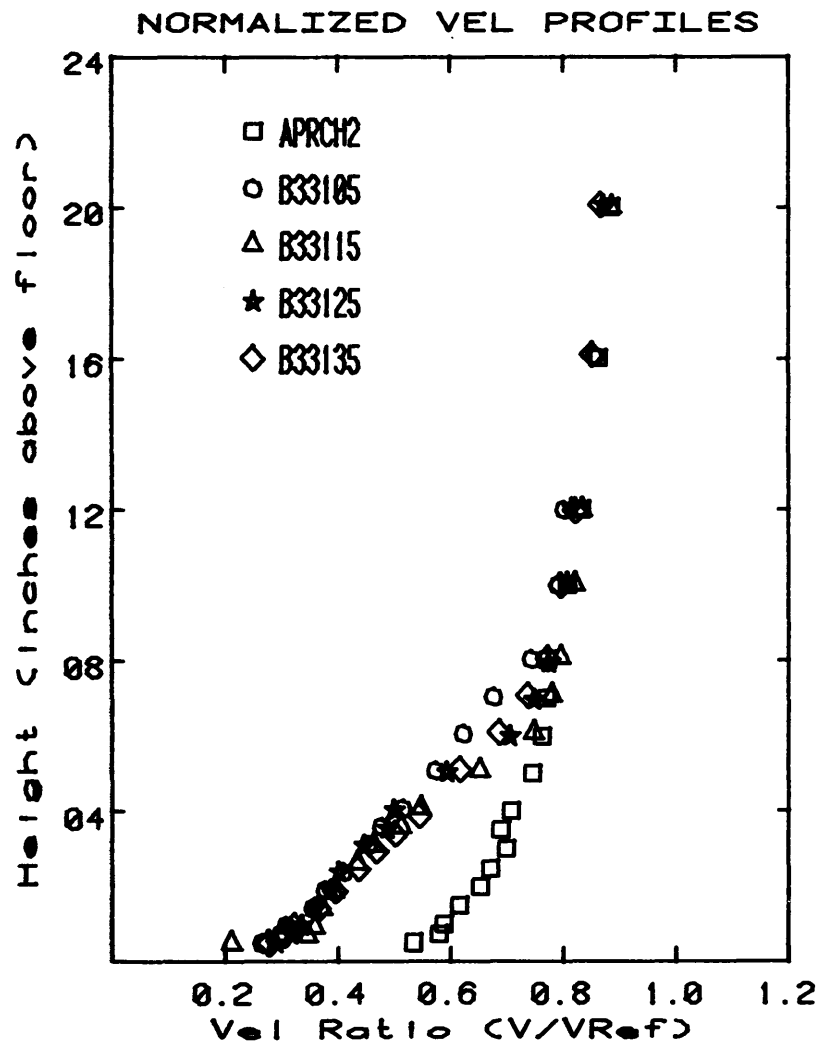
Graph # 18



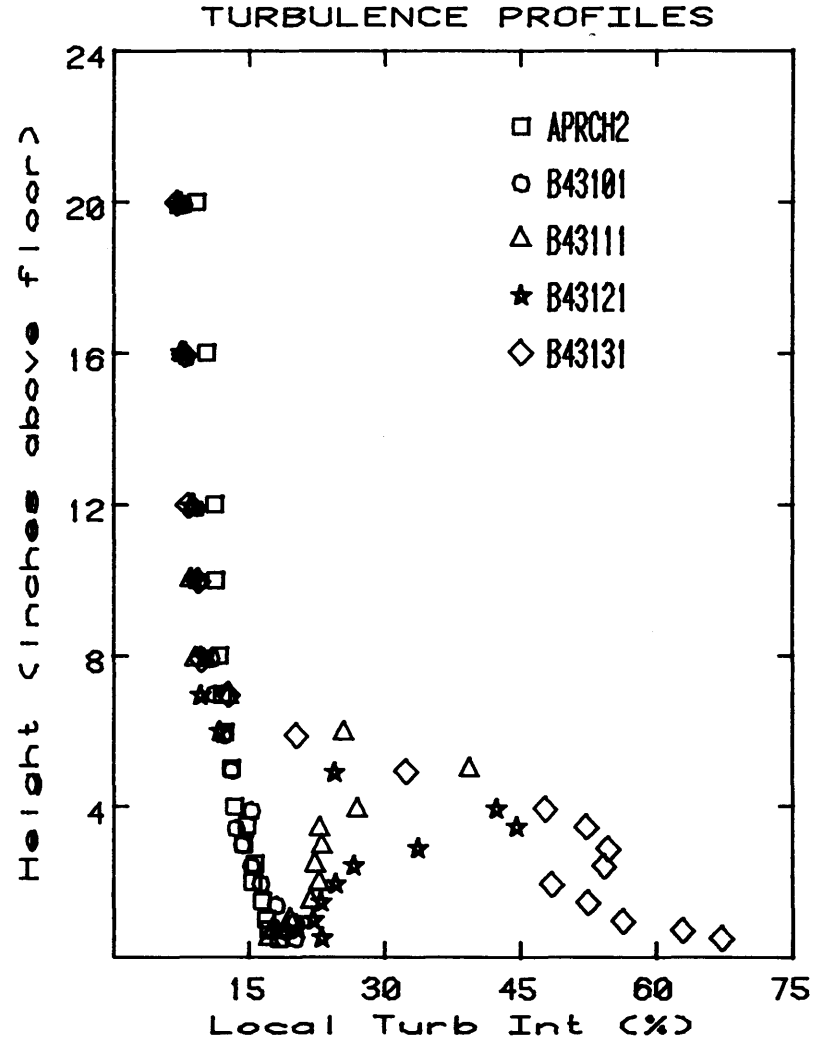
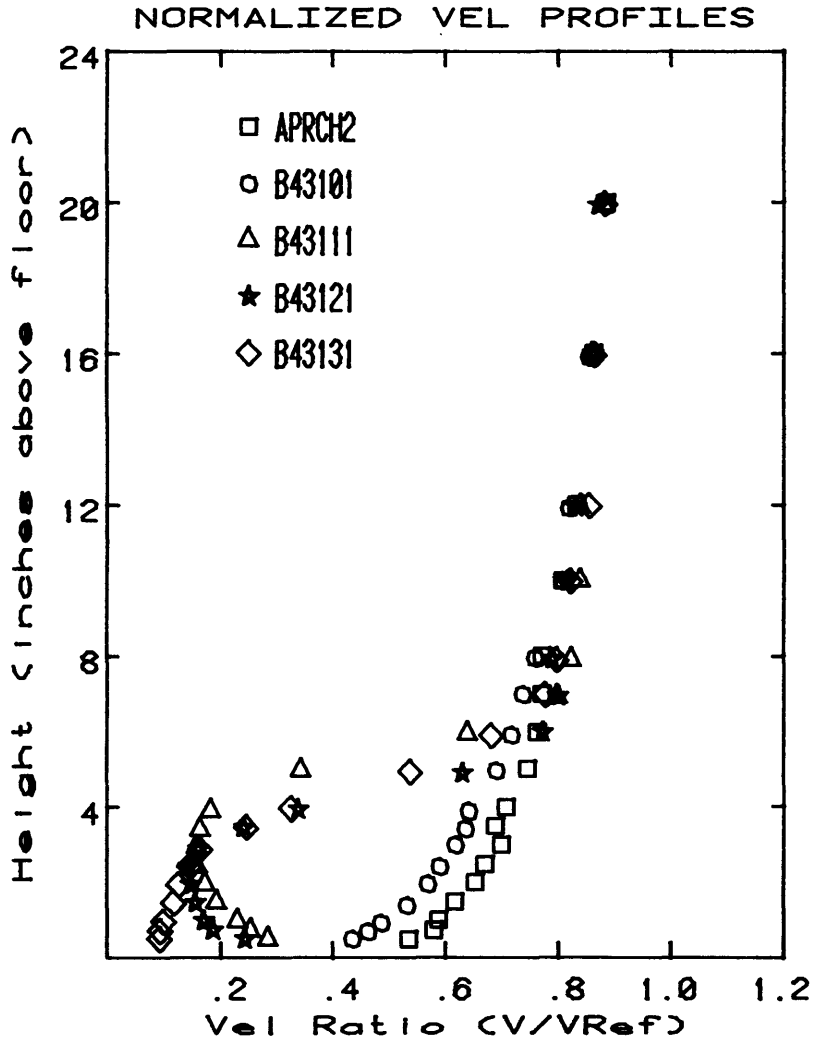
Graph # 19



Graph # 20

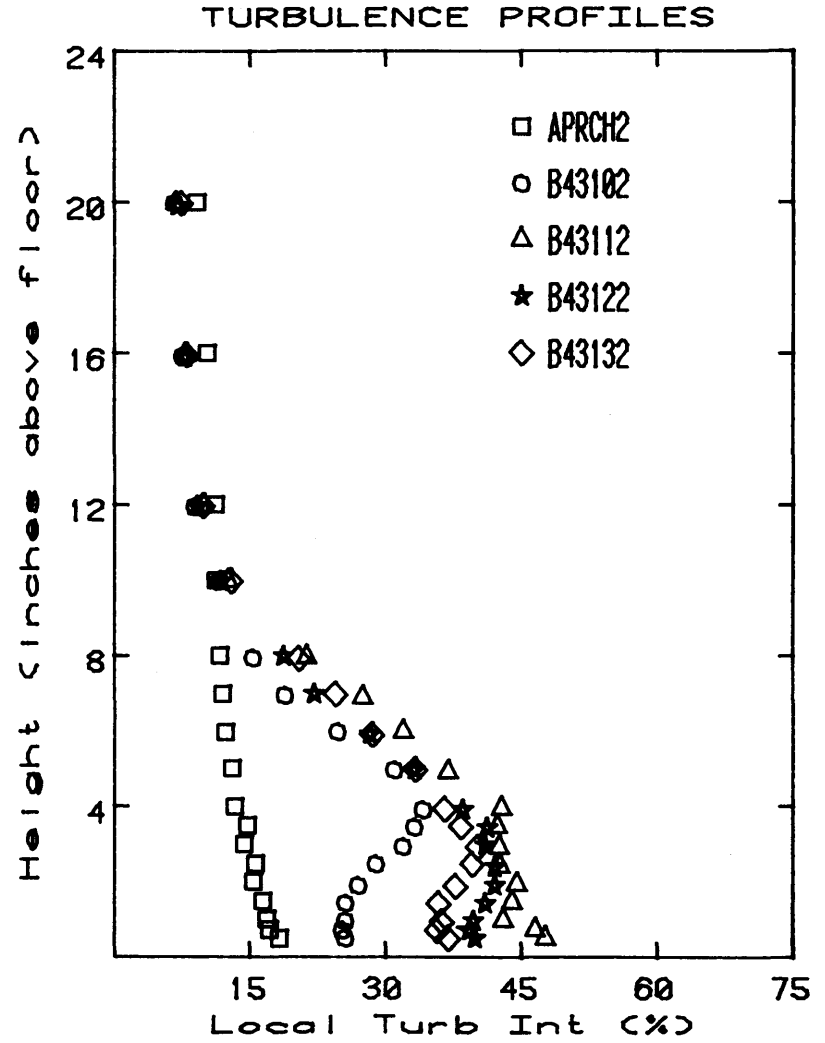
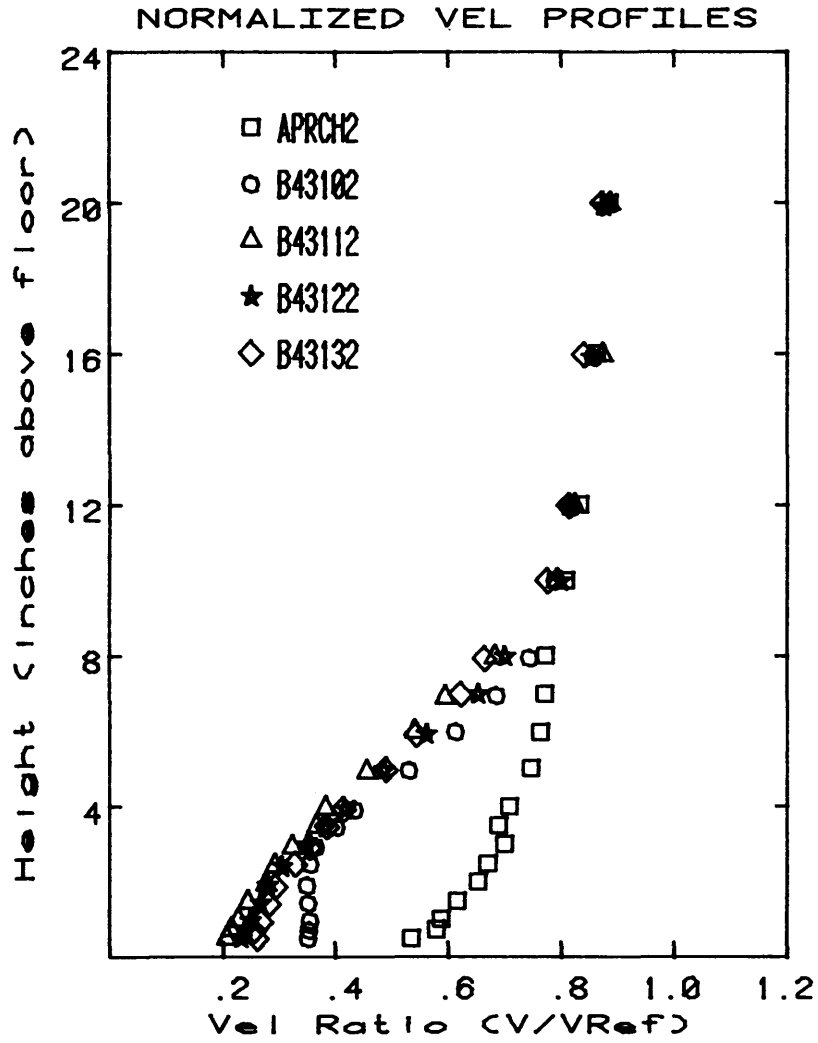


Graph # 21

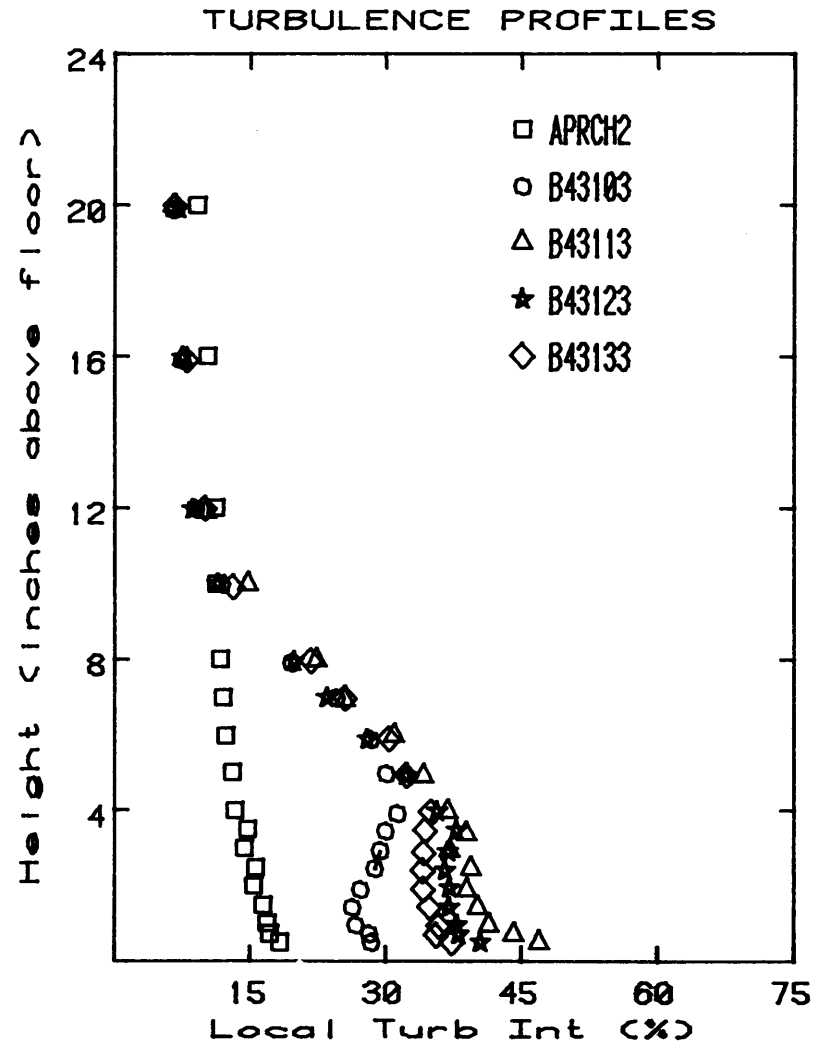
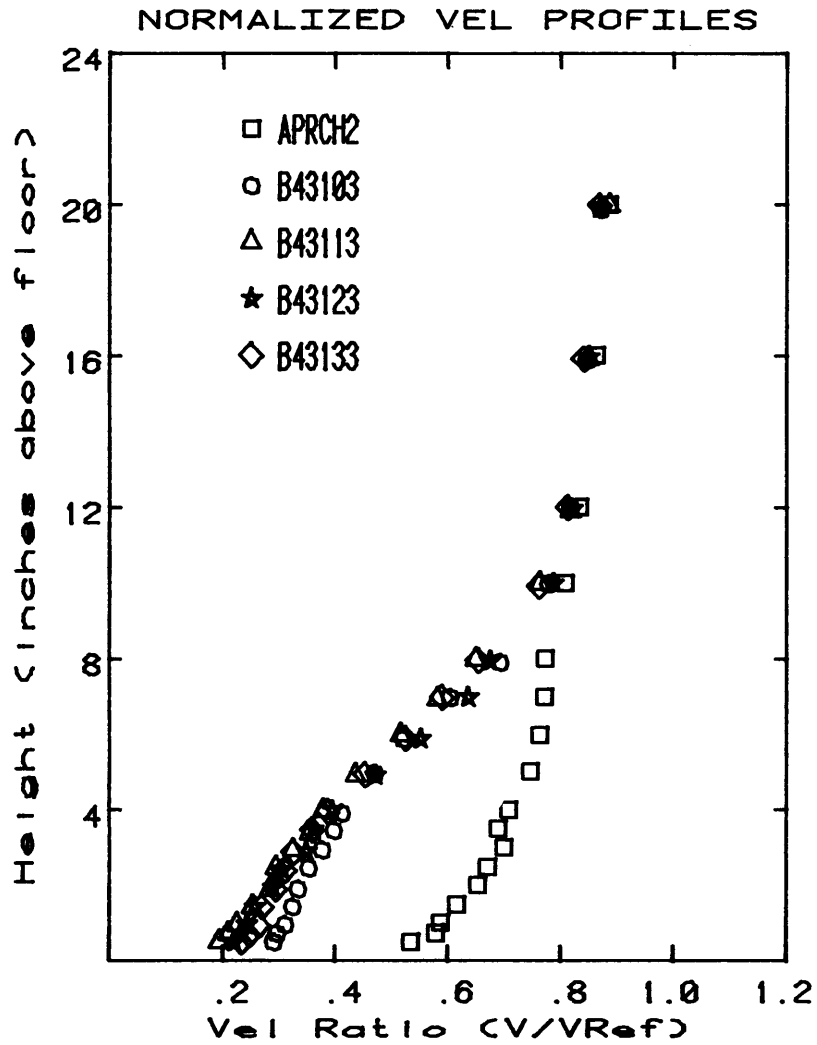




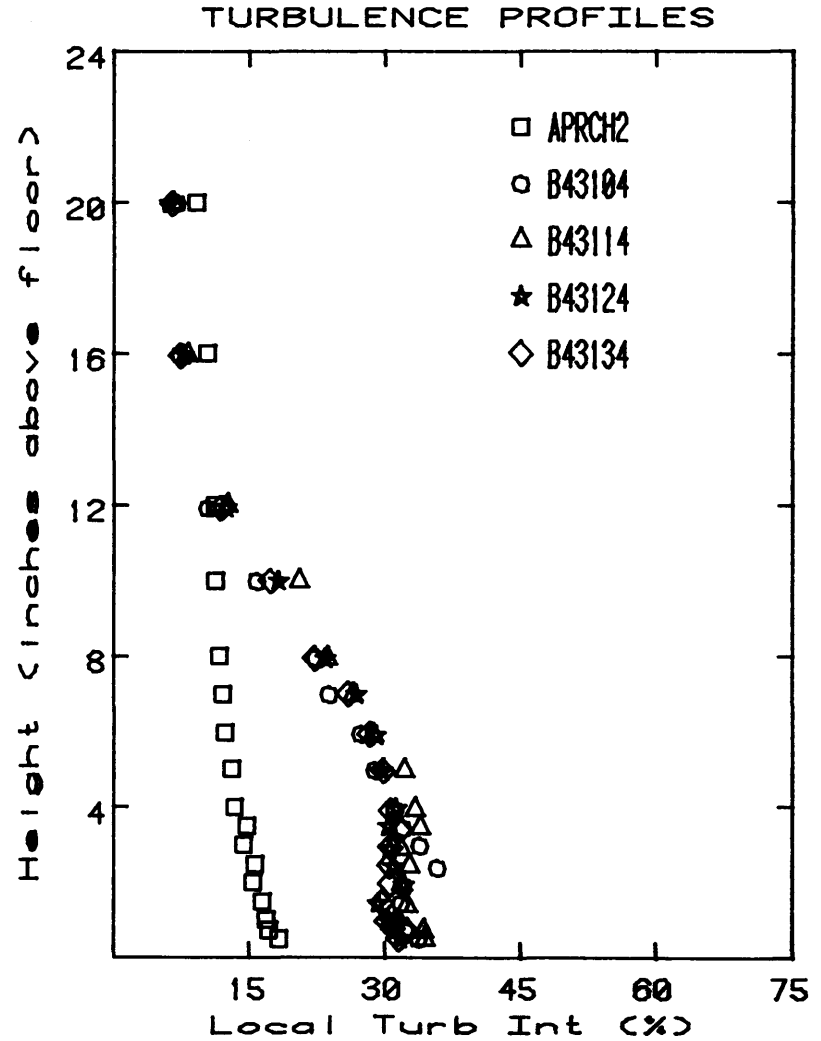
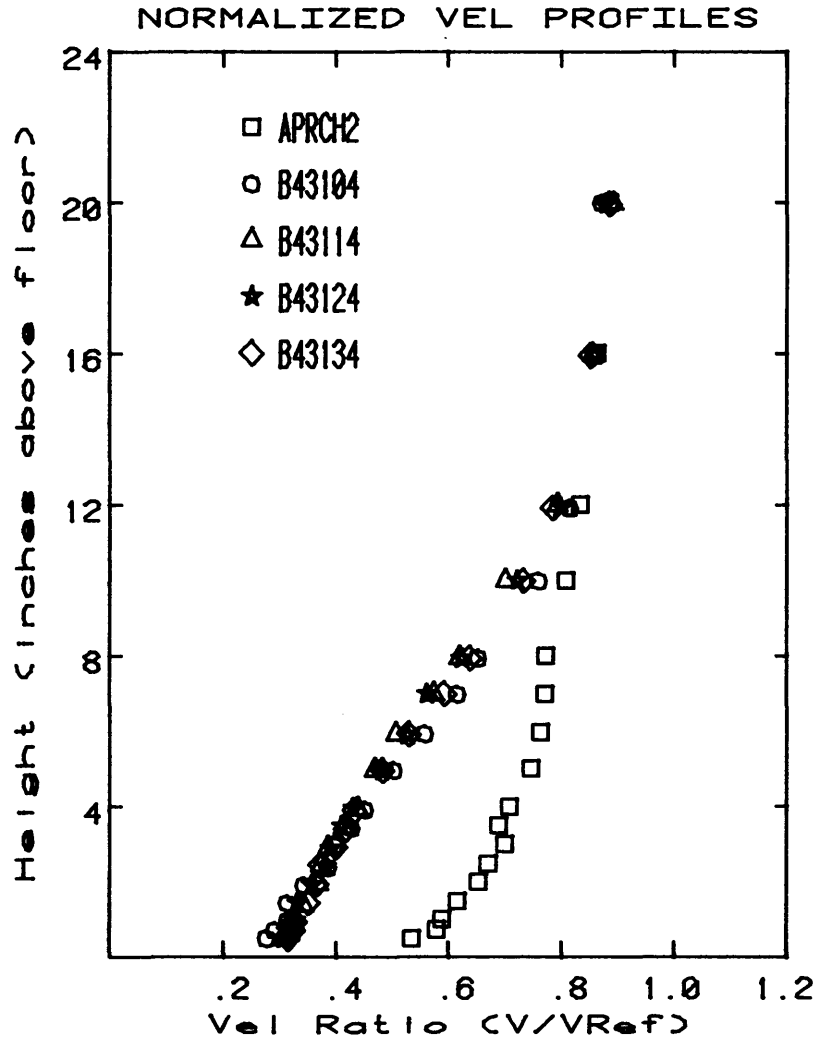
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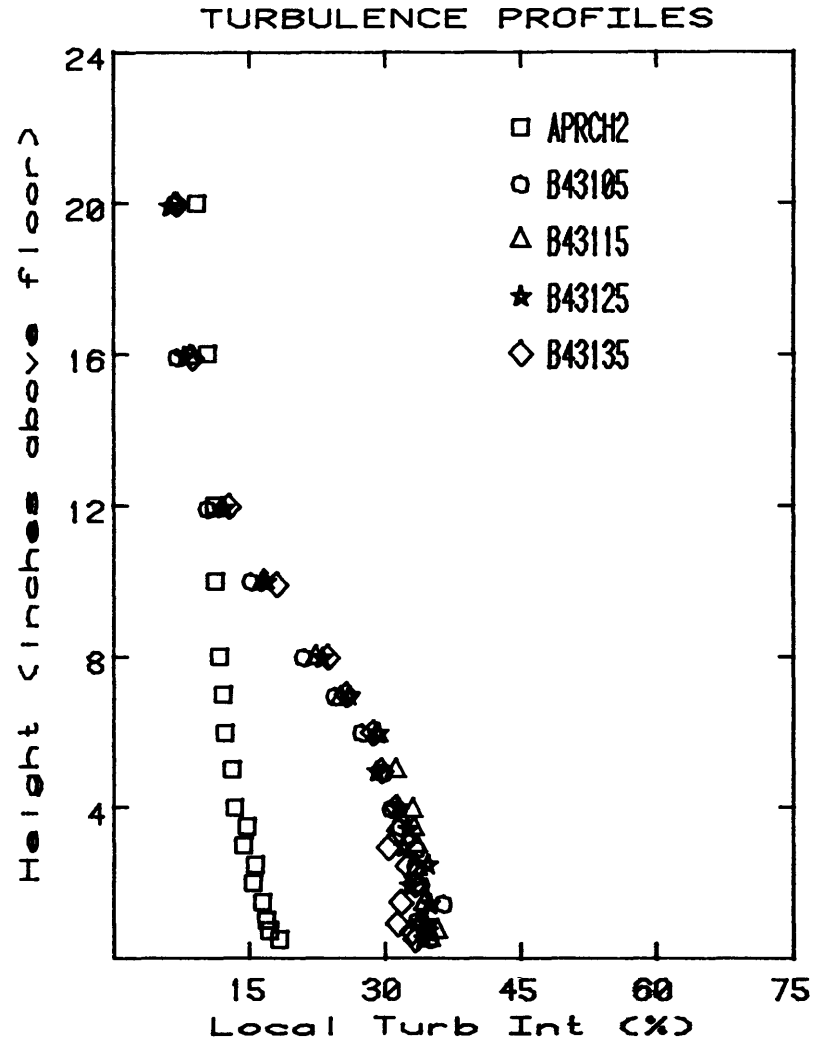
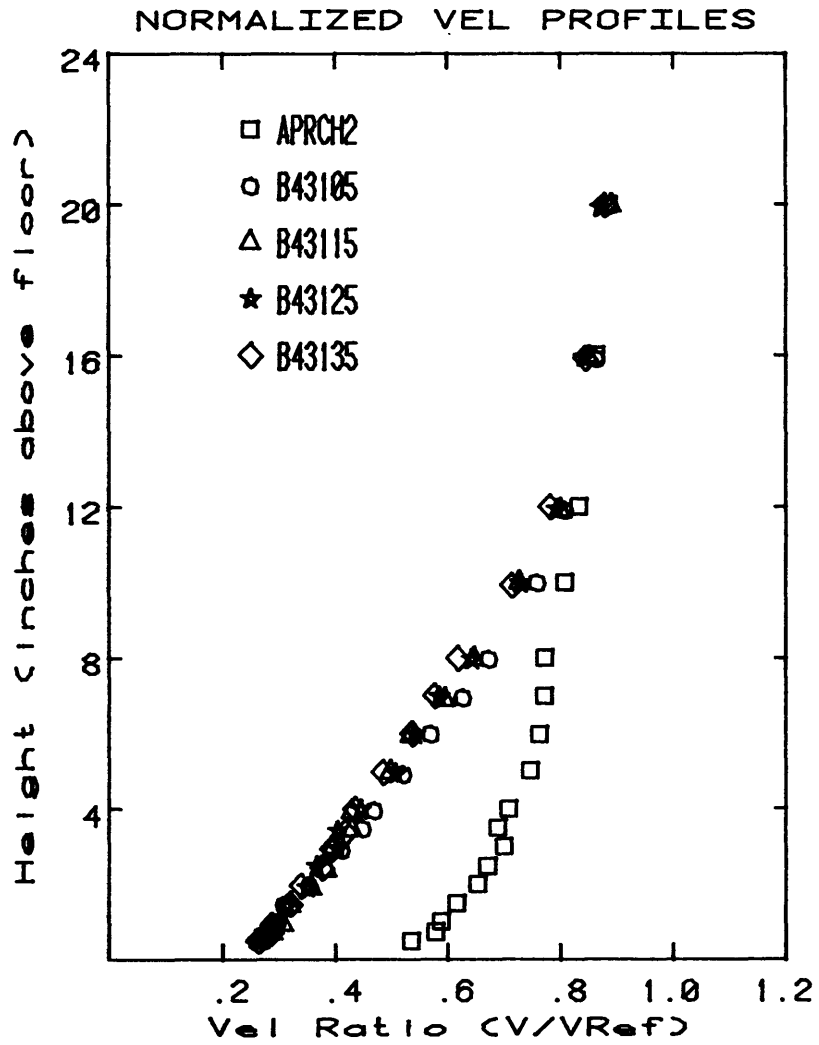
Graph # 23



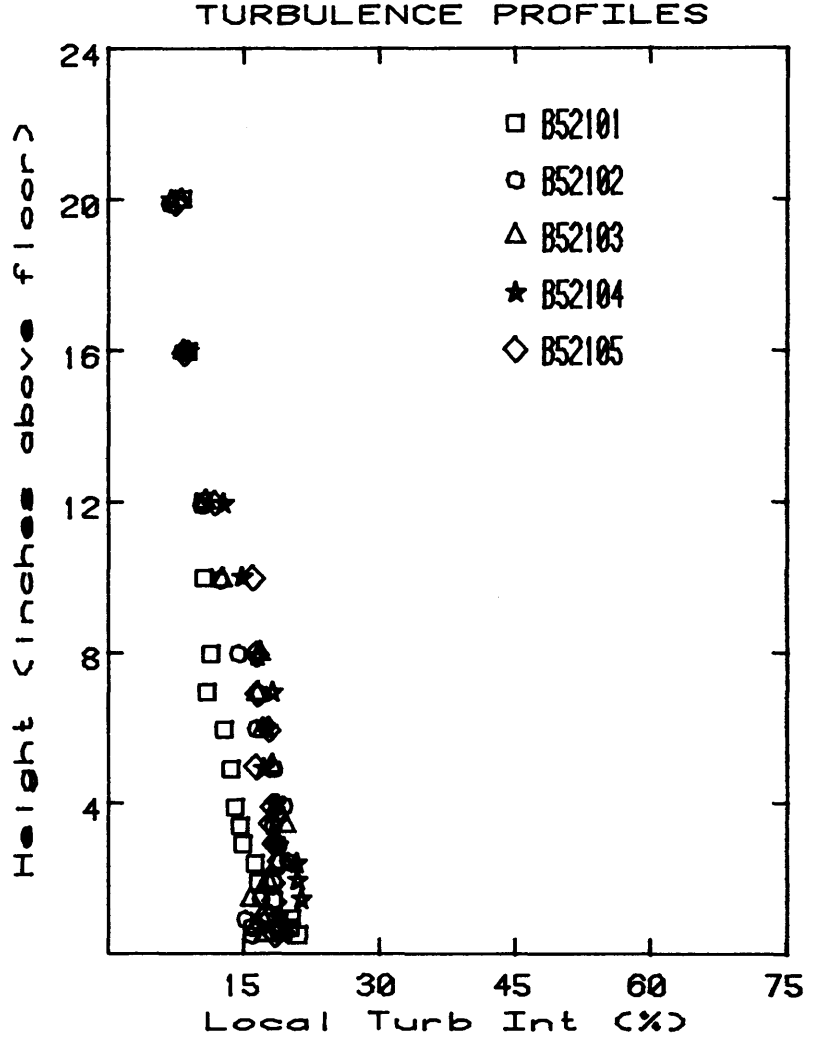
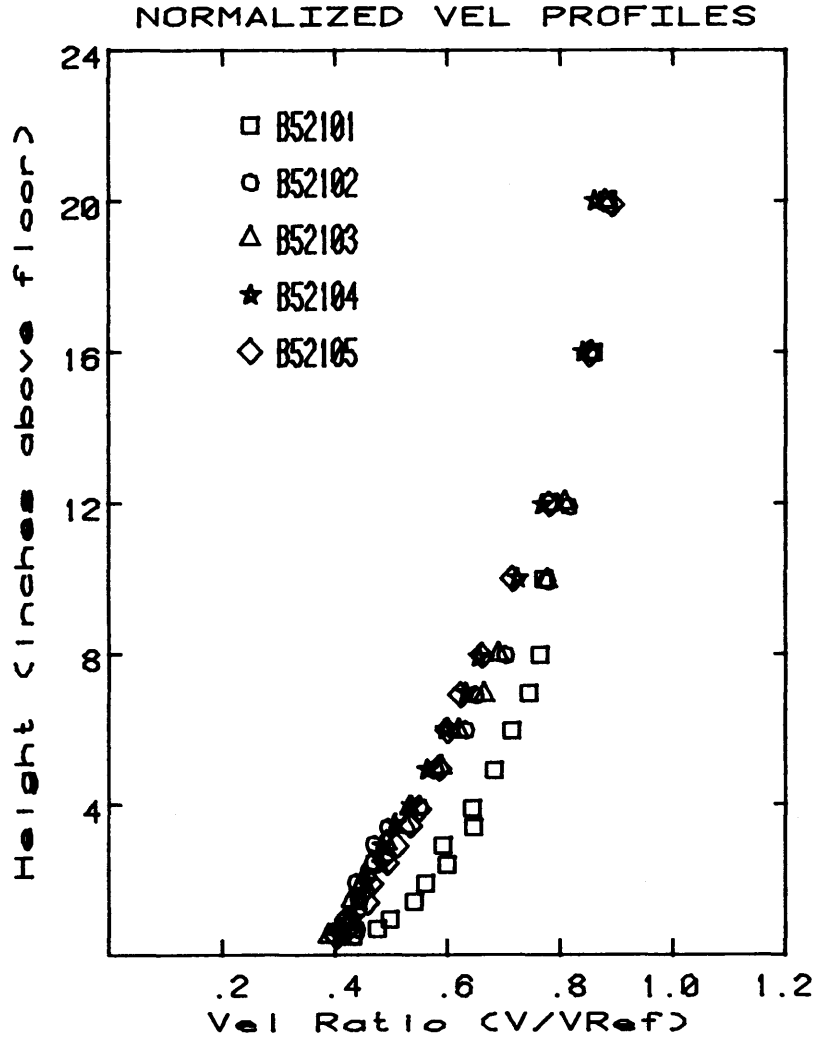
Graph # 24



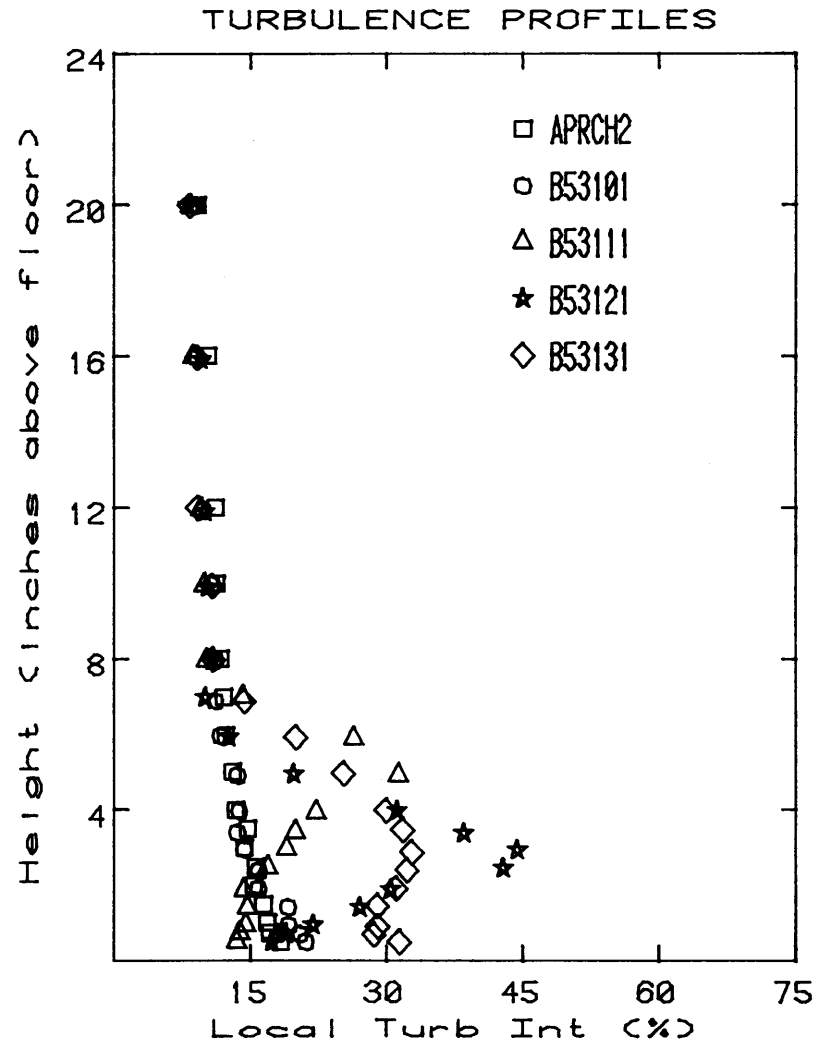
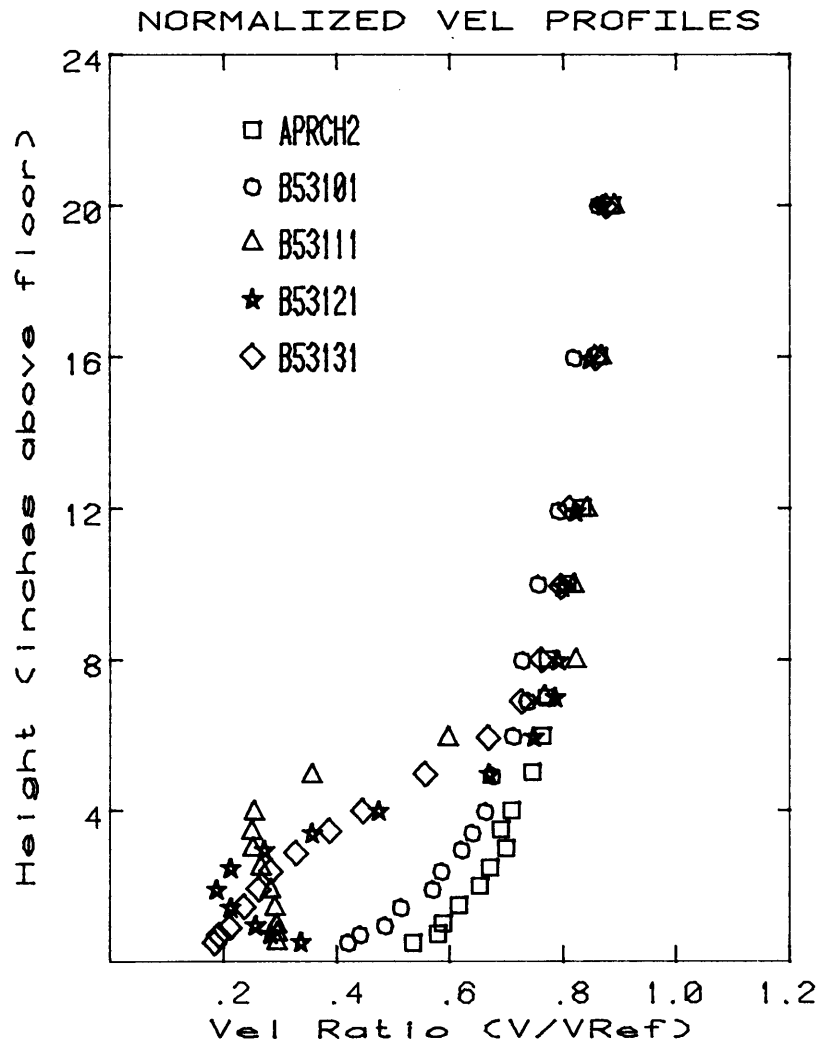
Graph # 25



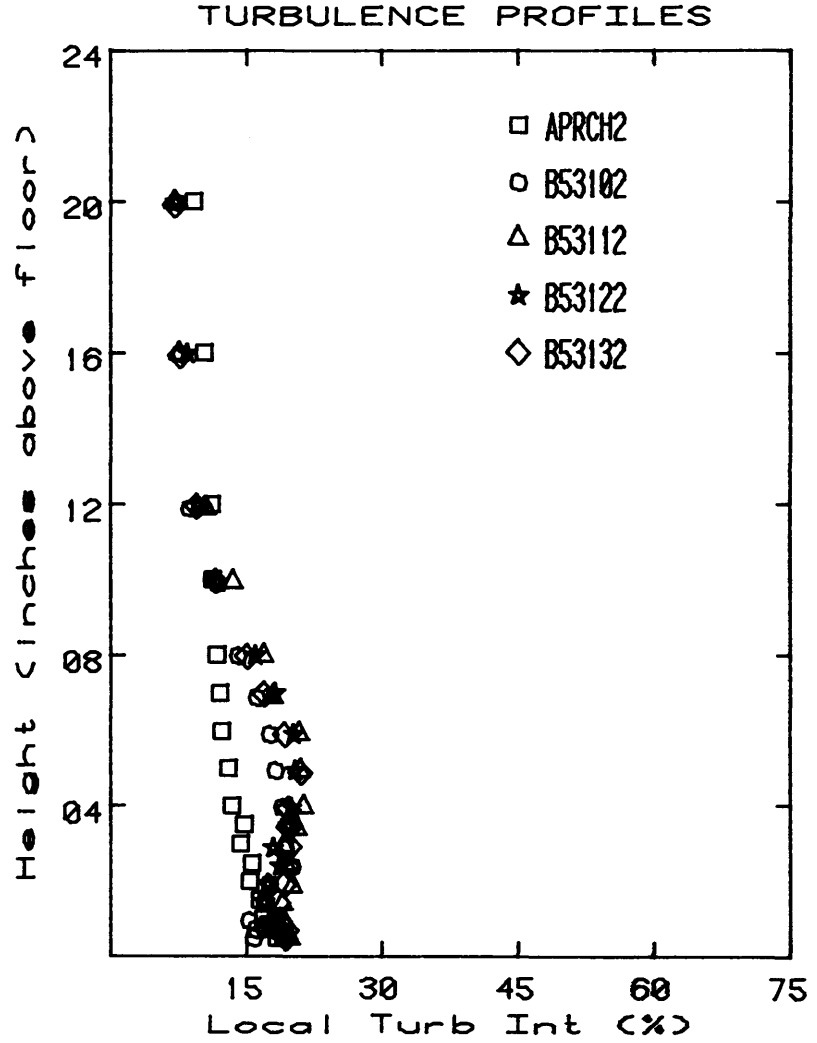
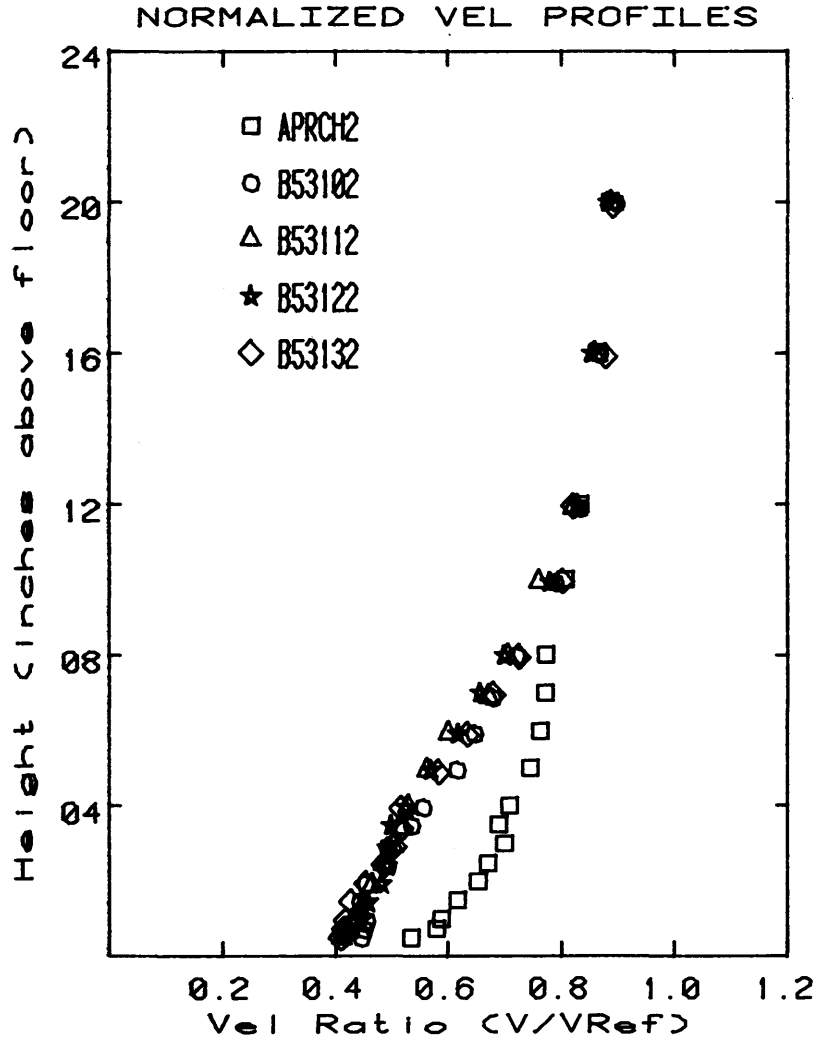
Graph # 26



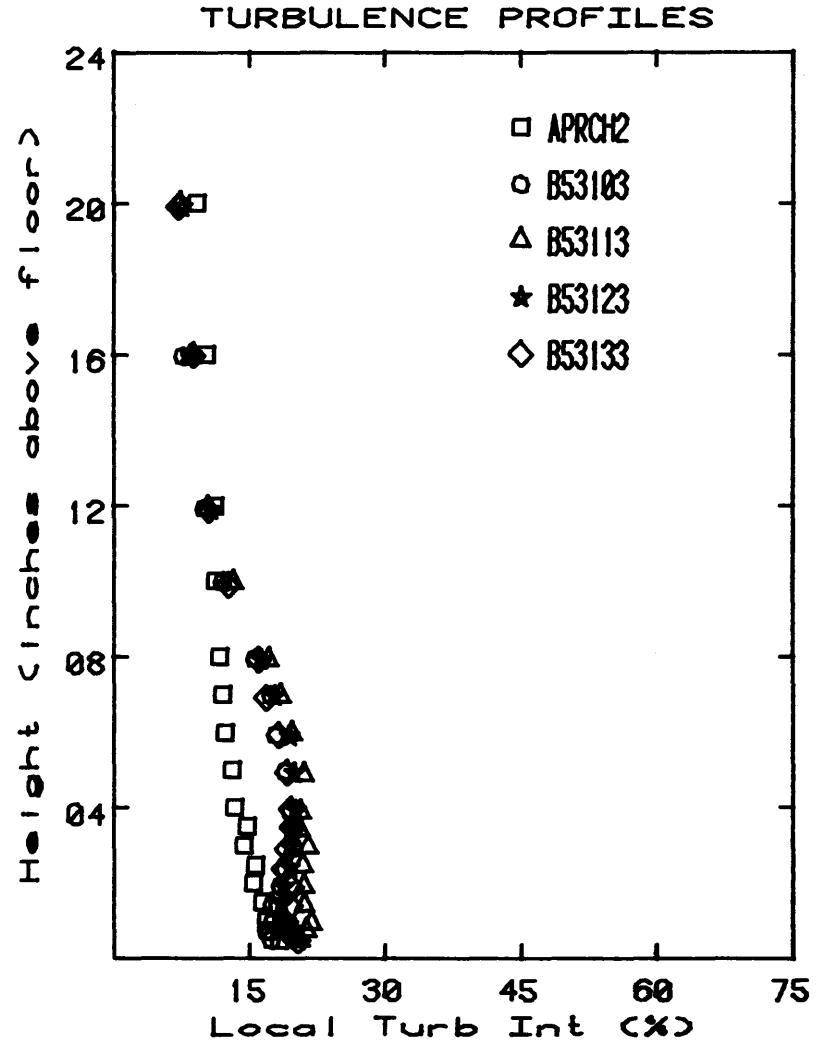
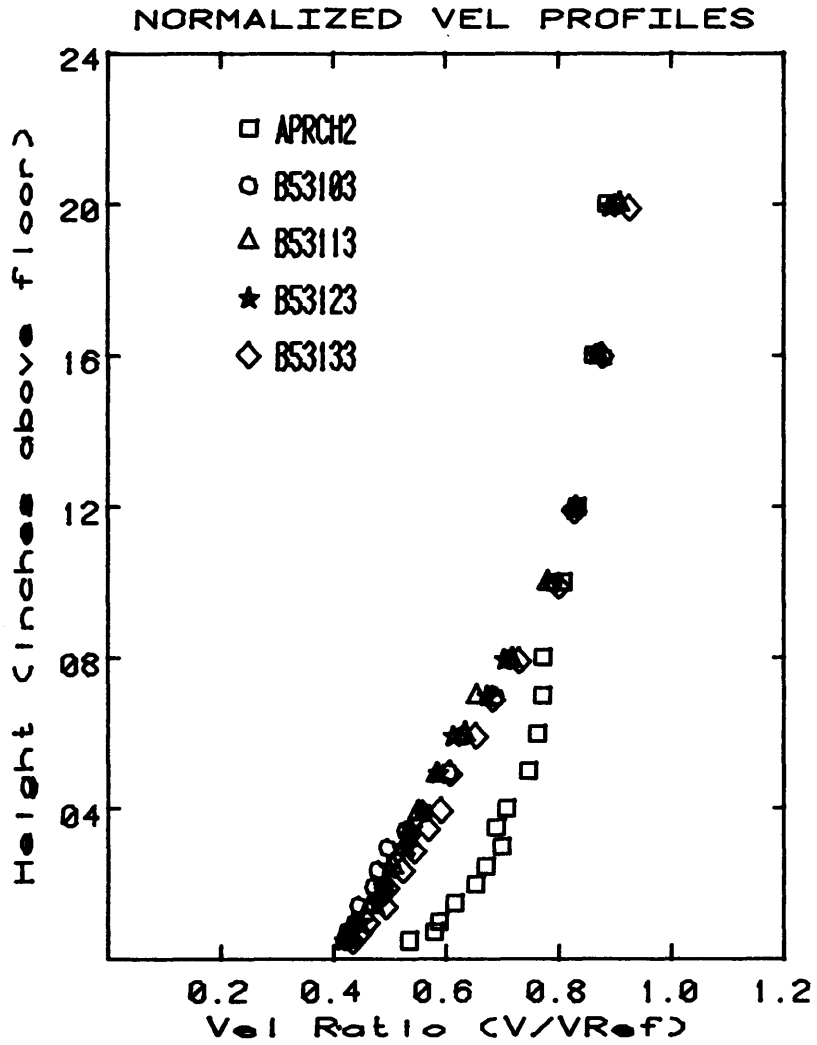
Graph # 27



Graph # 28

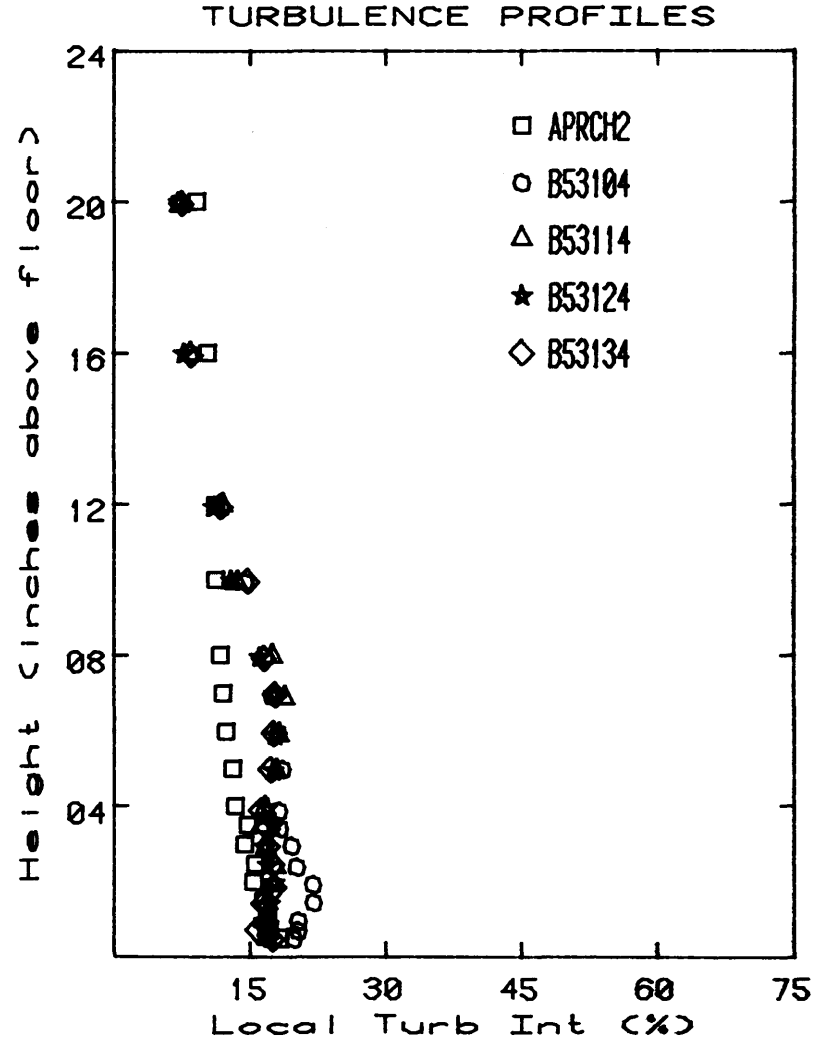
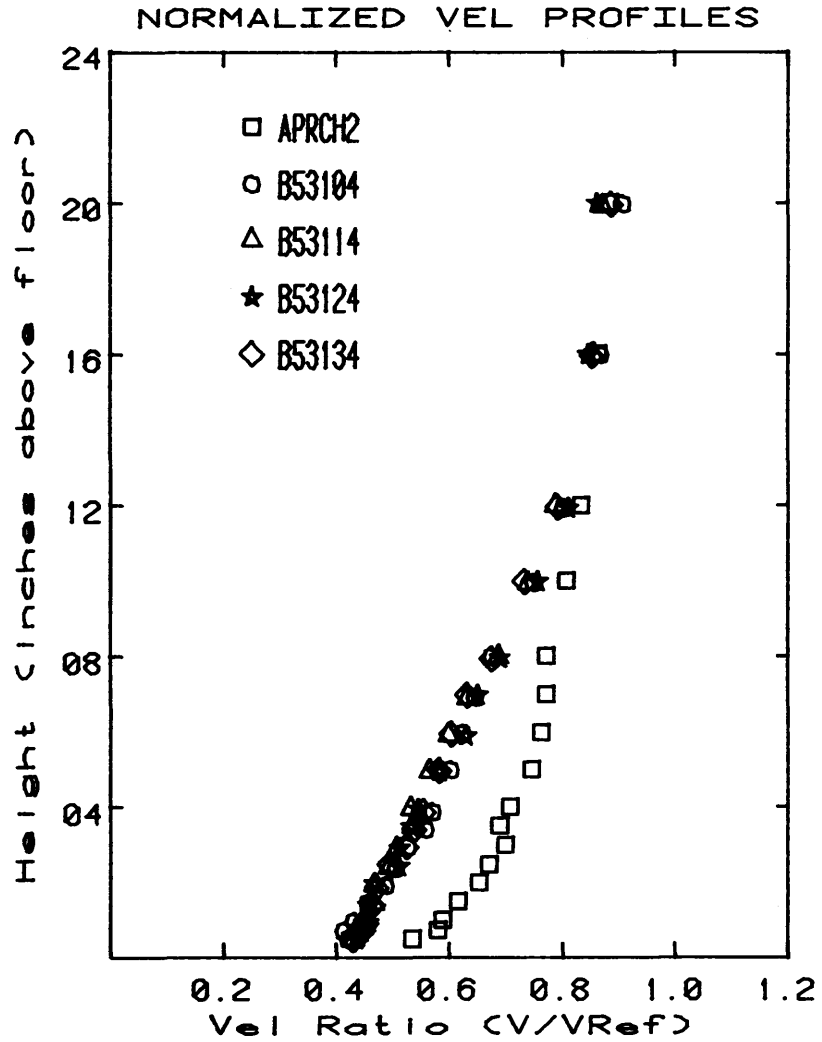


Graph # 29

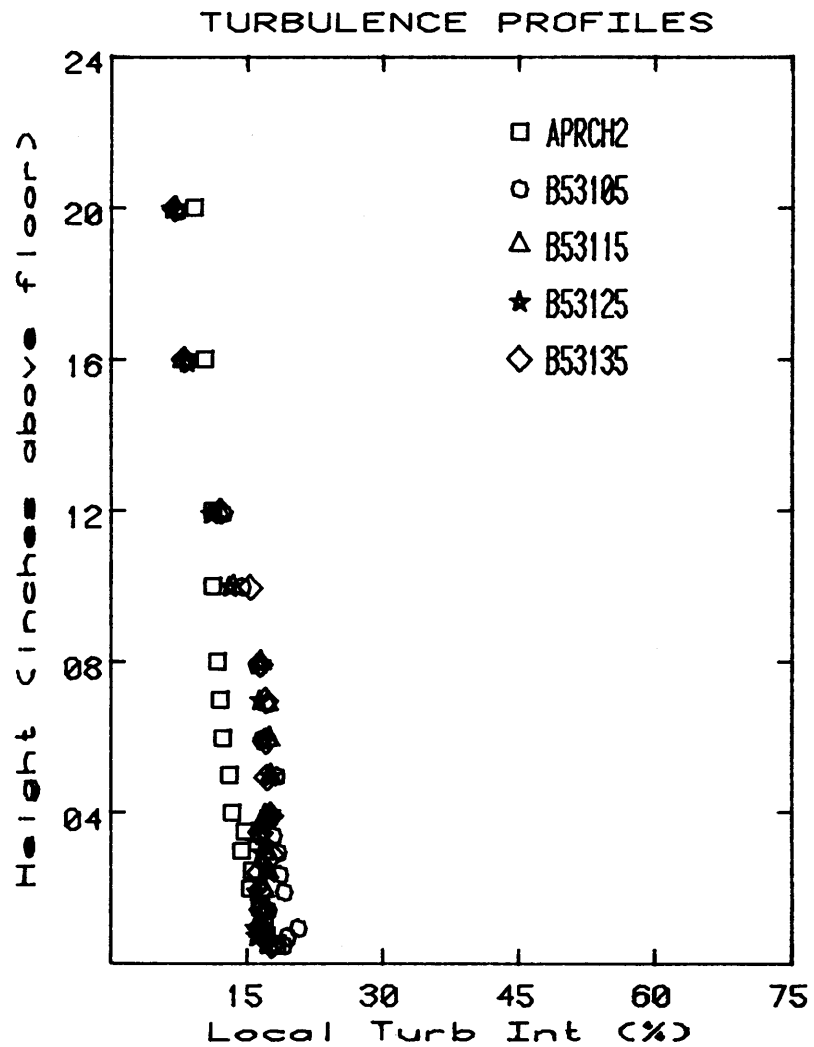
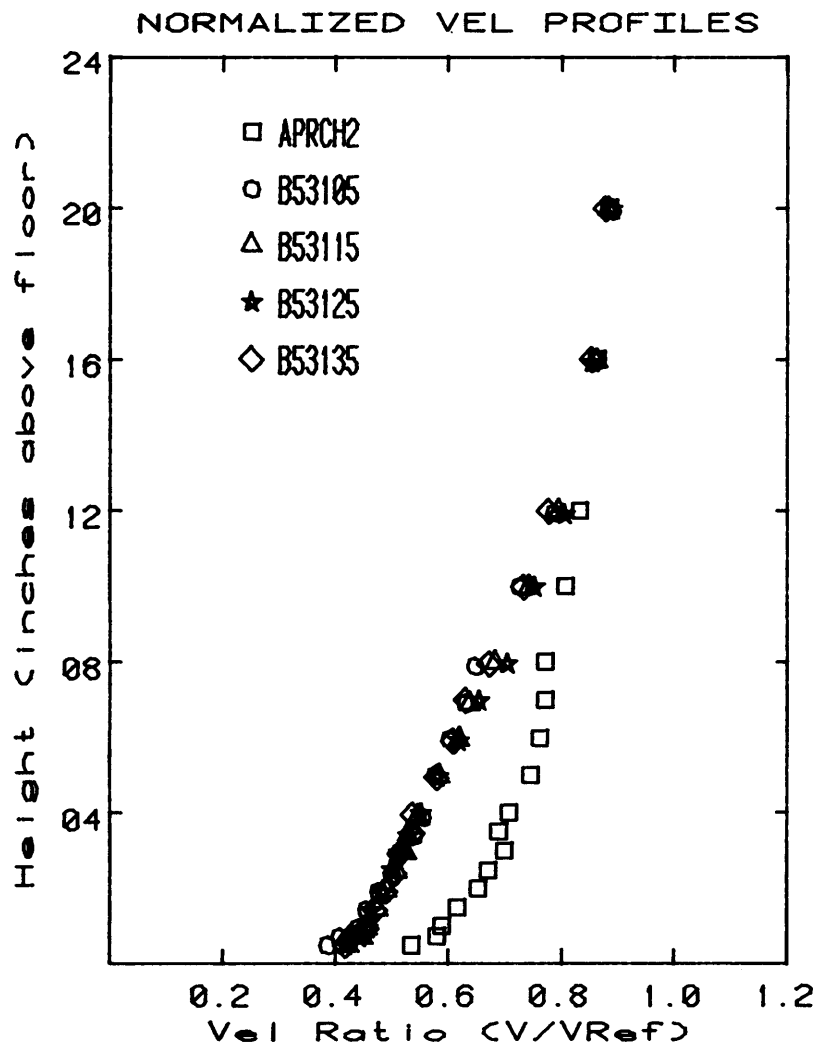




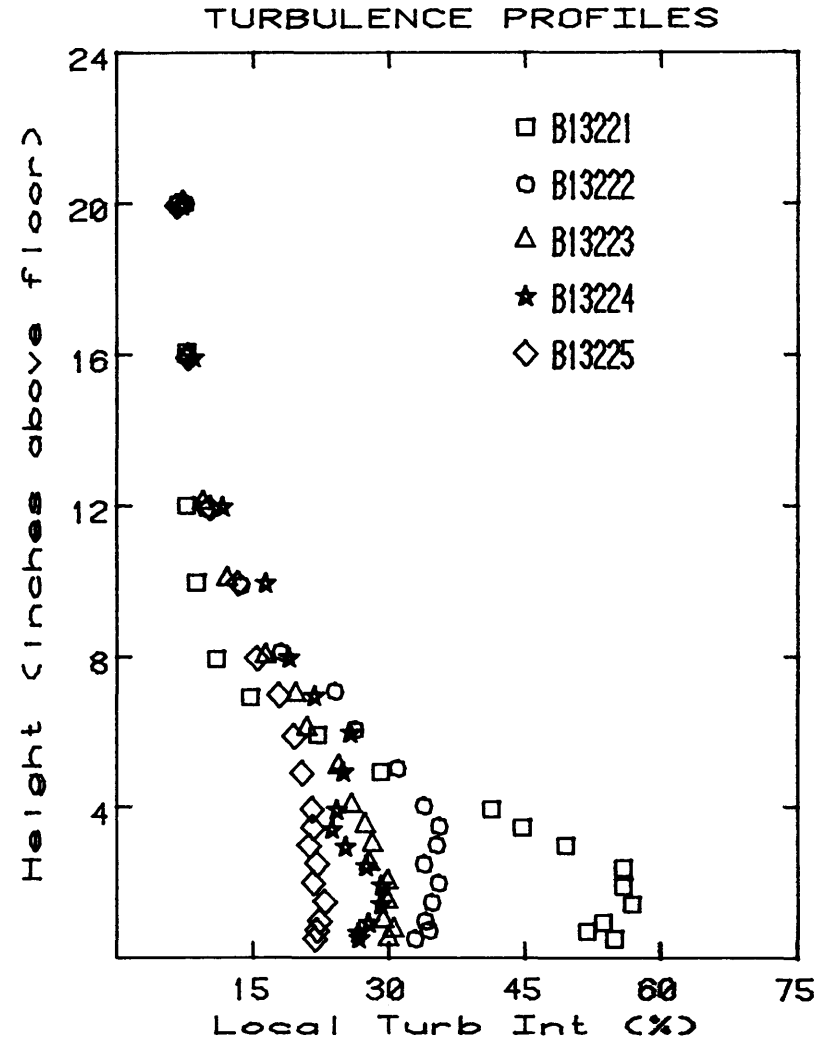
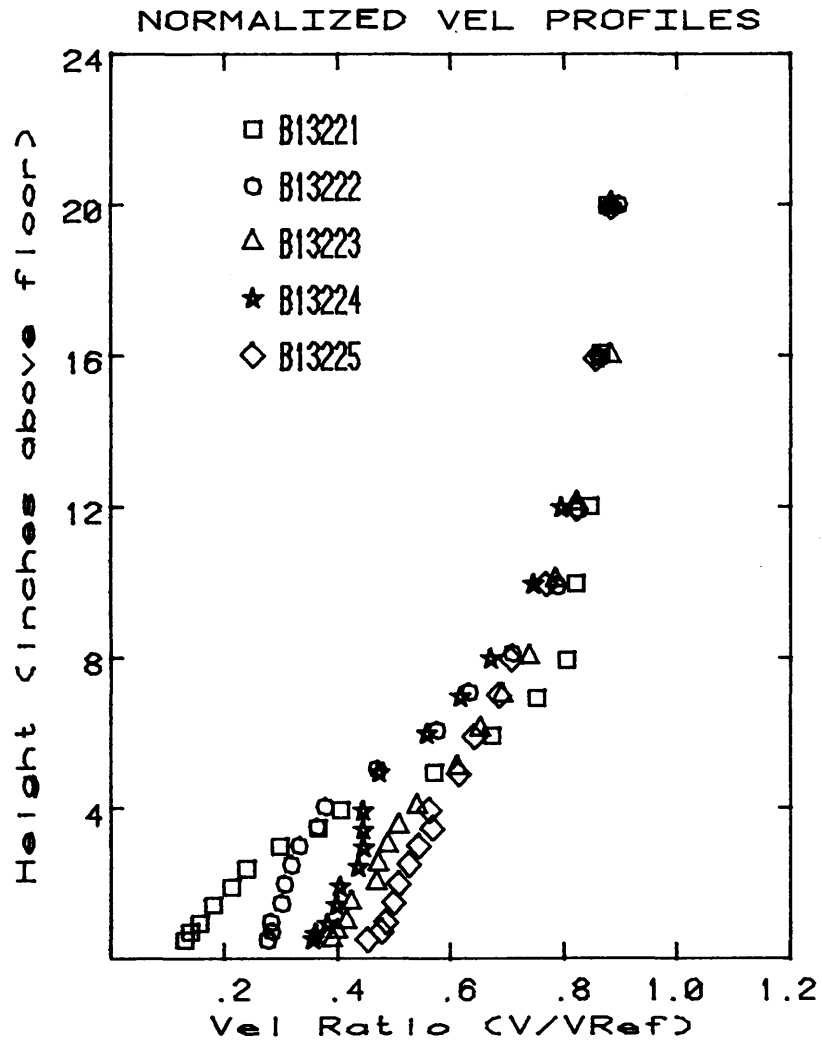
Graph # 30



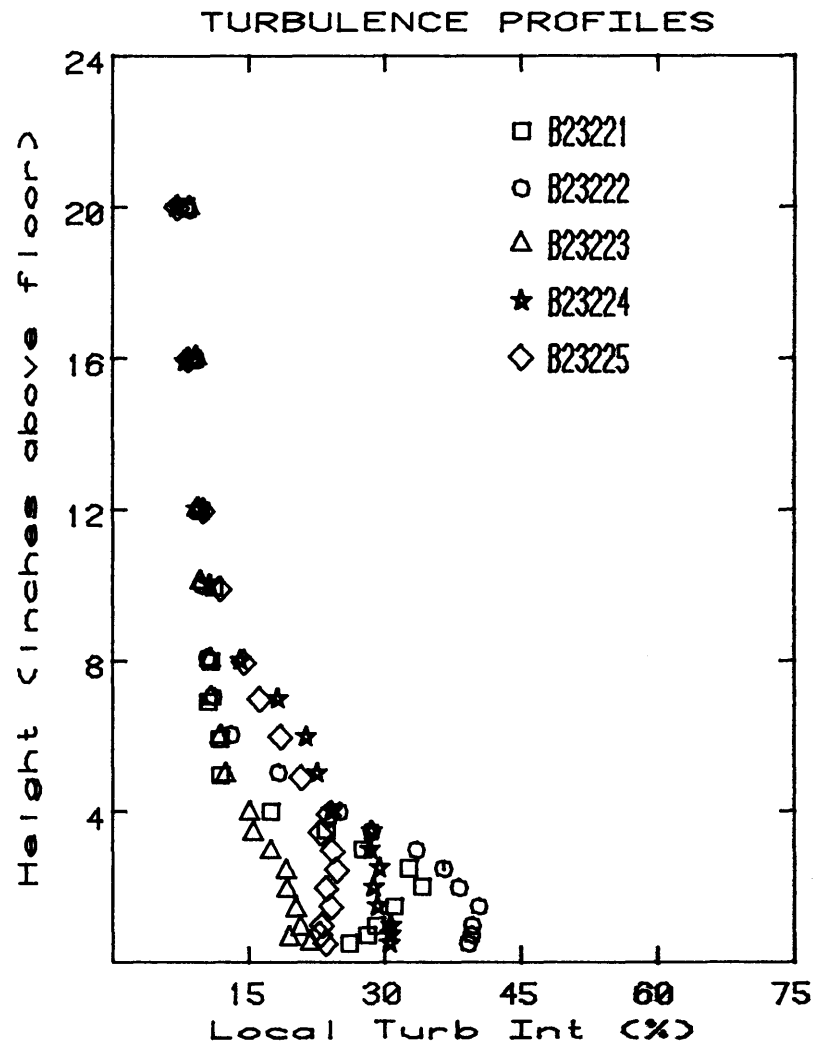
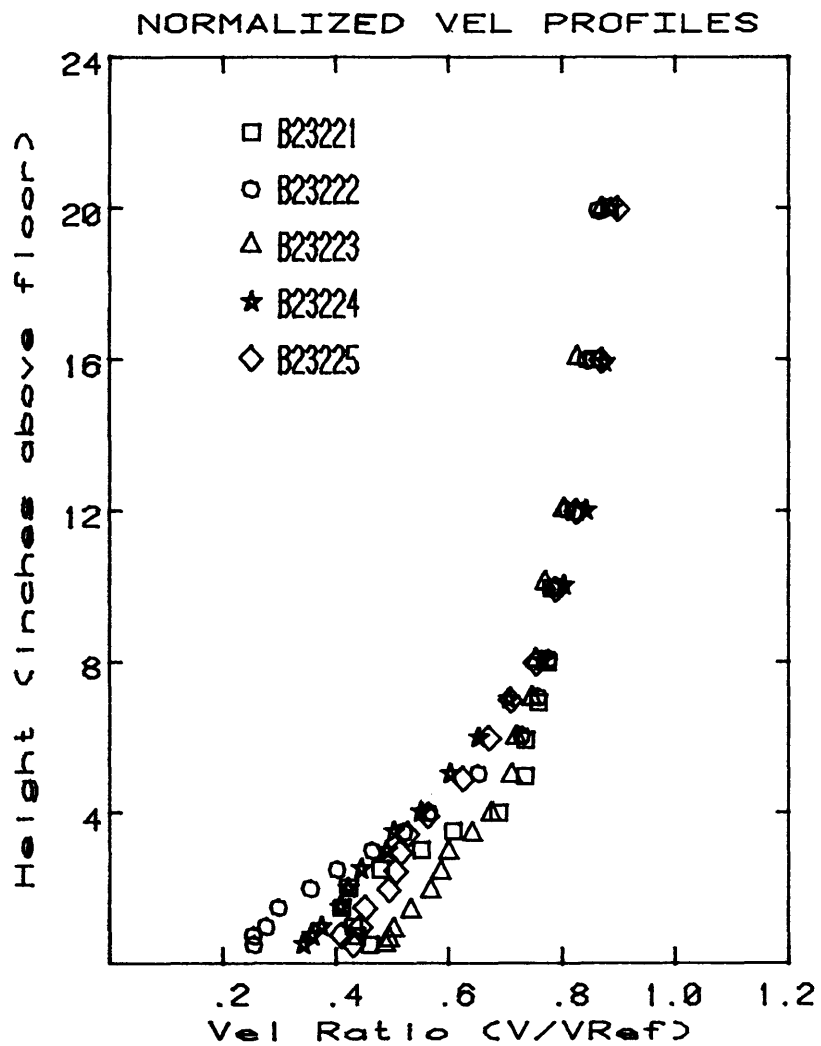
Graph # 31



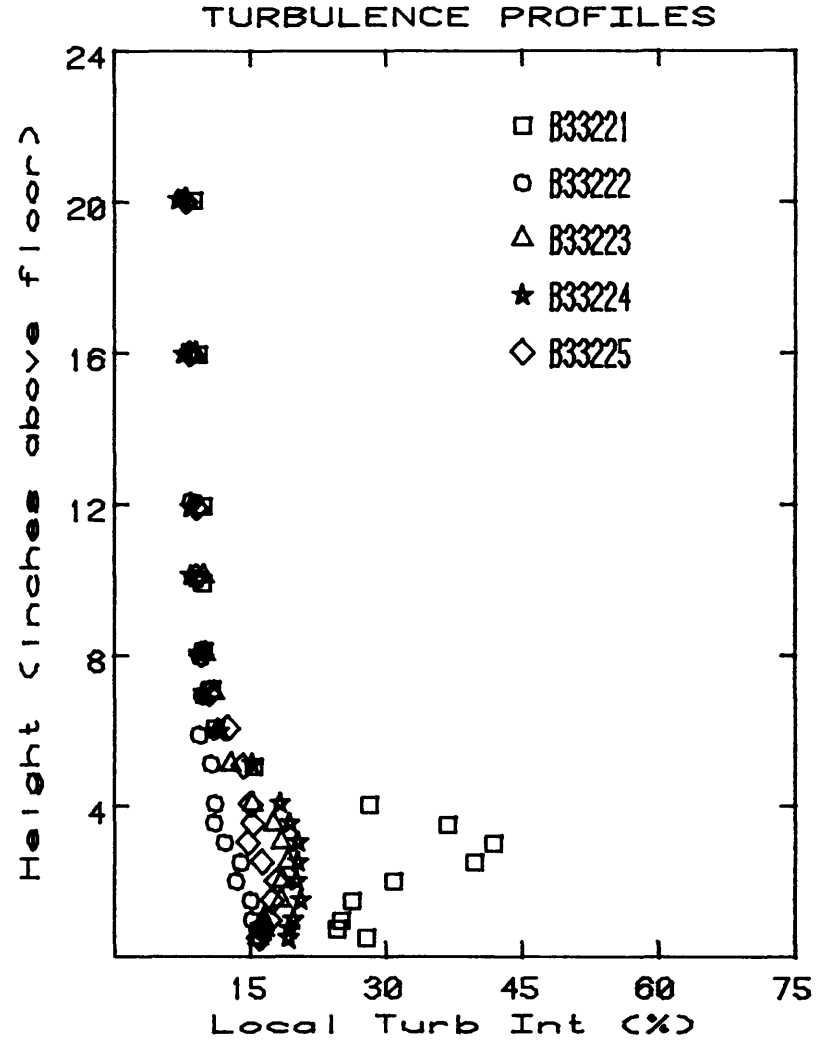
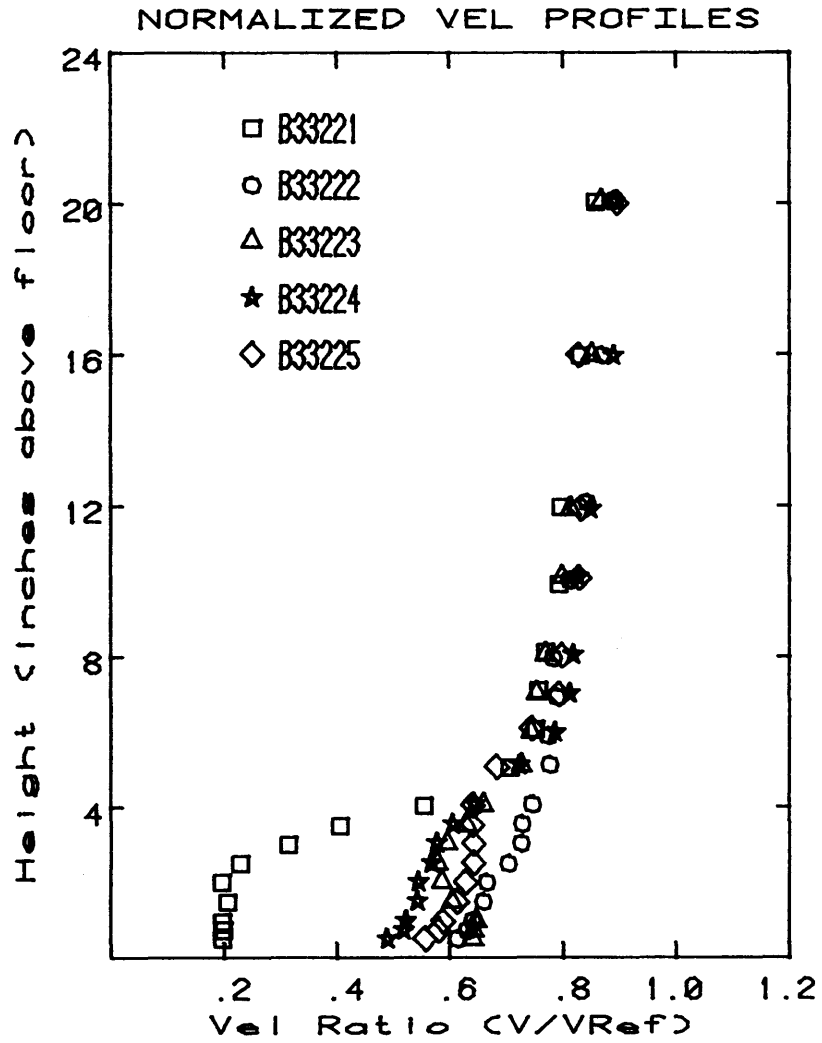
Graph # 32



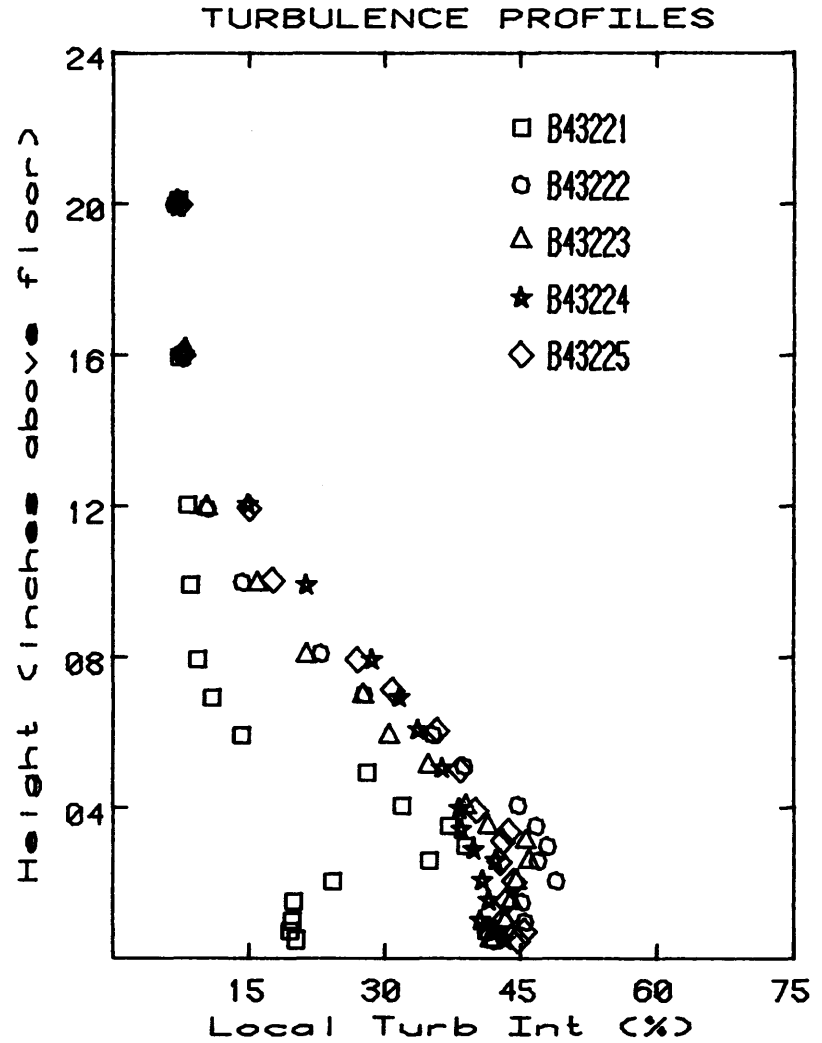
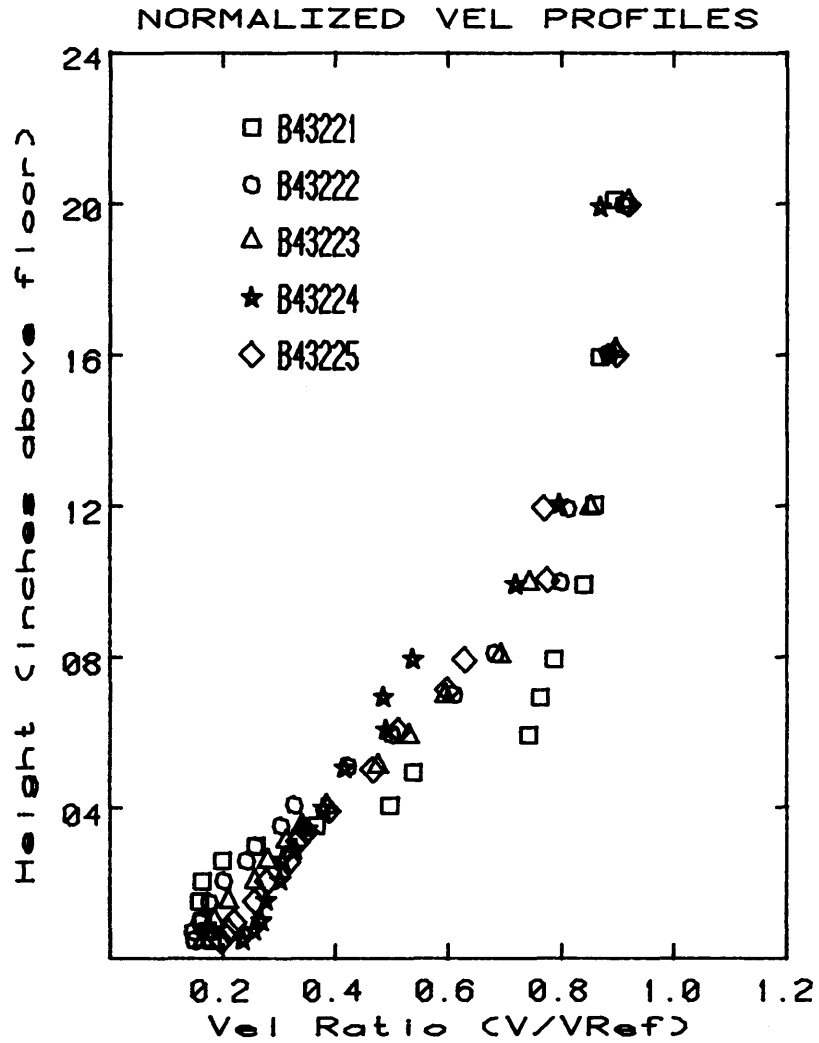
Graph # 33



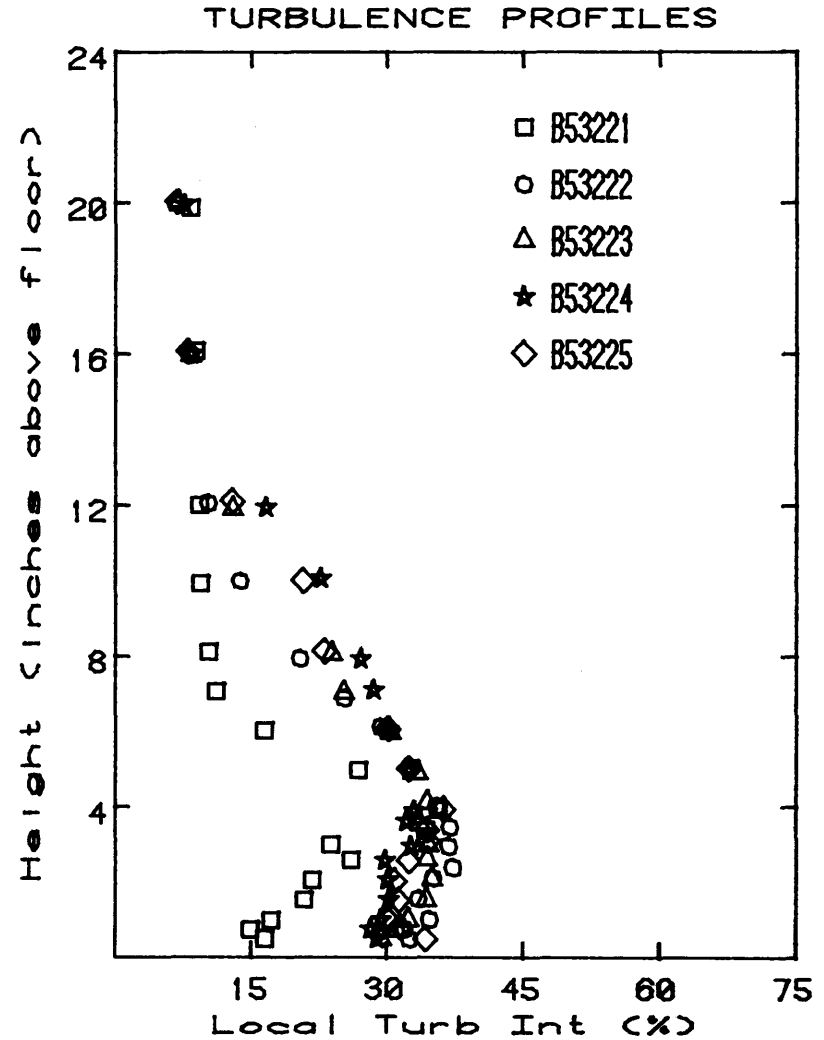
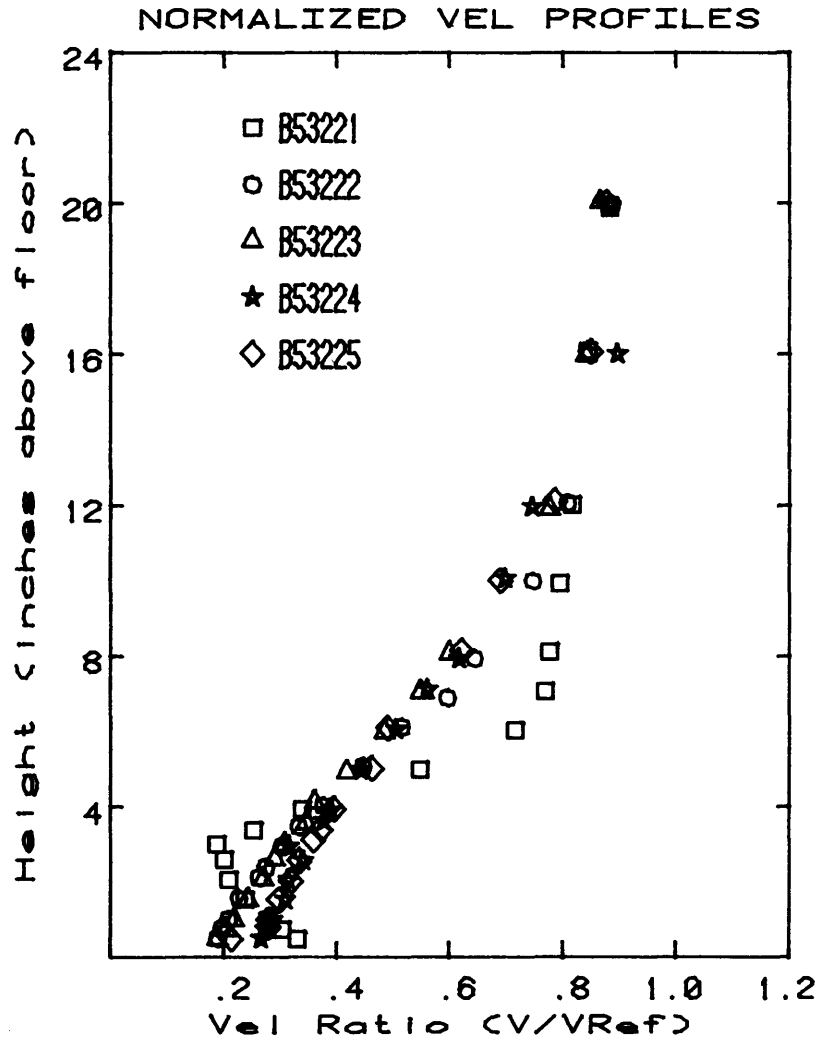
Graph # 34



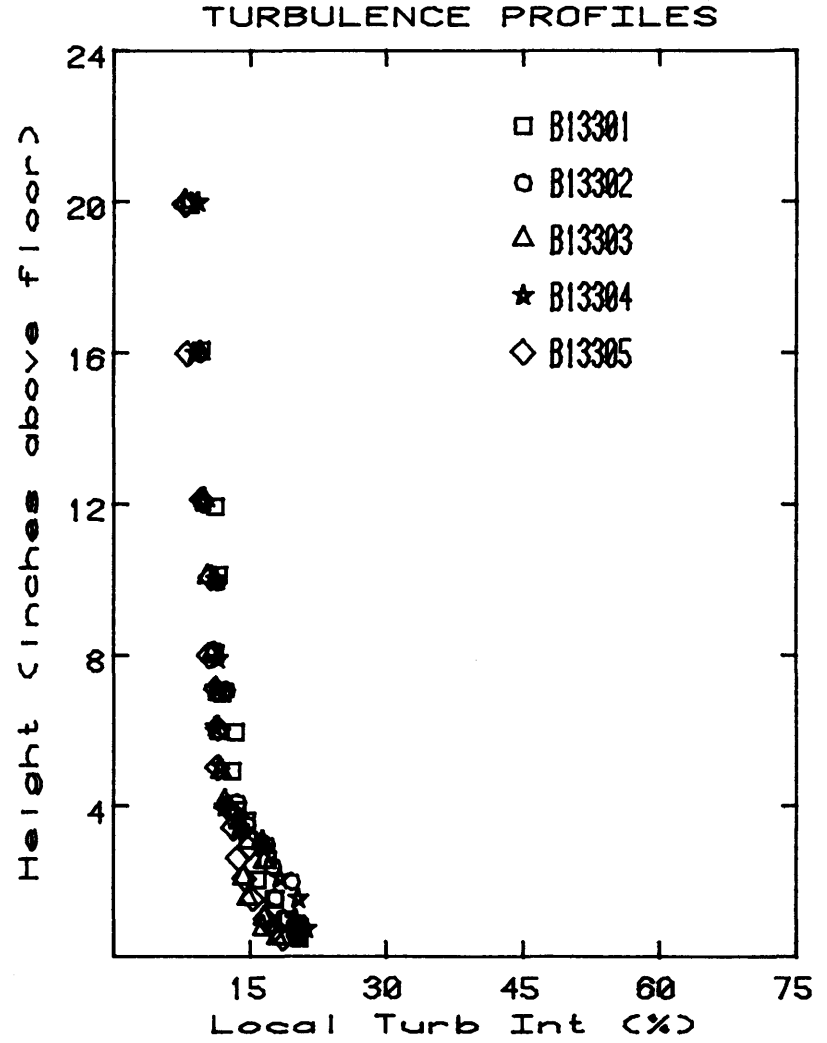
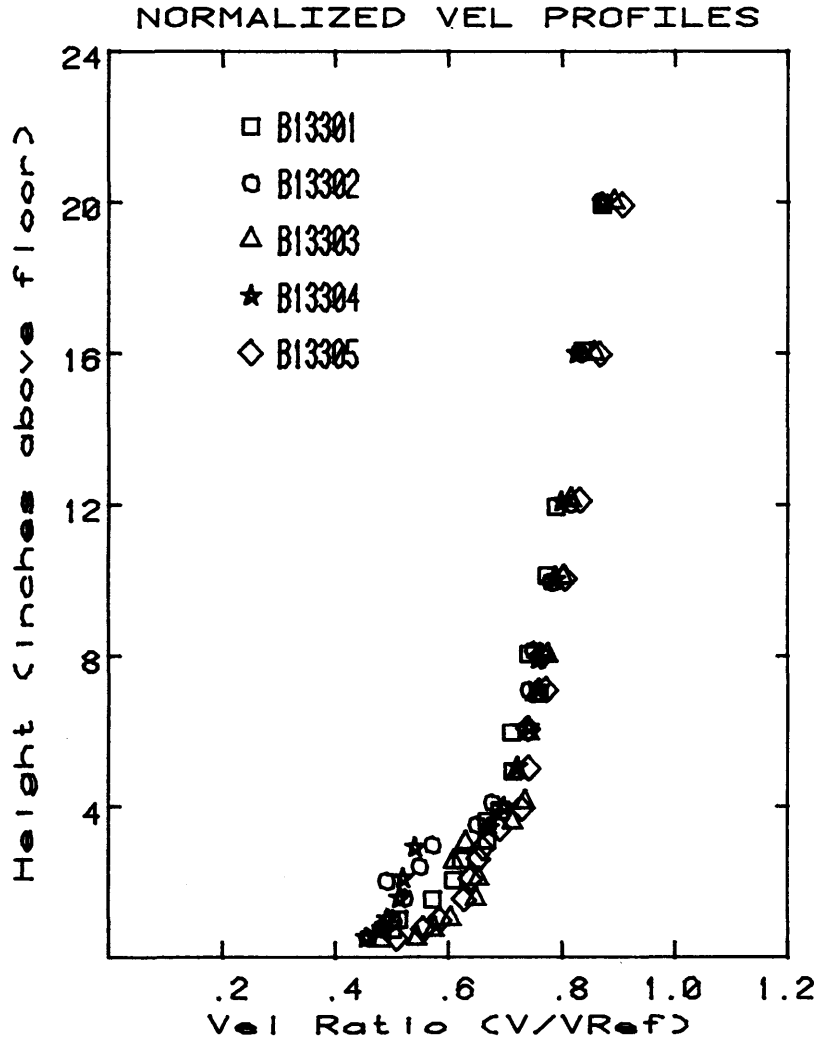
Graph # 35



Graph # 36

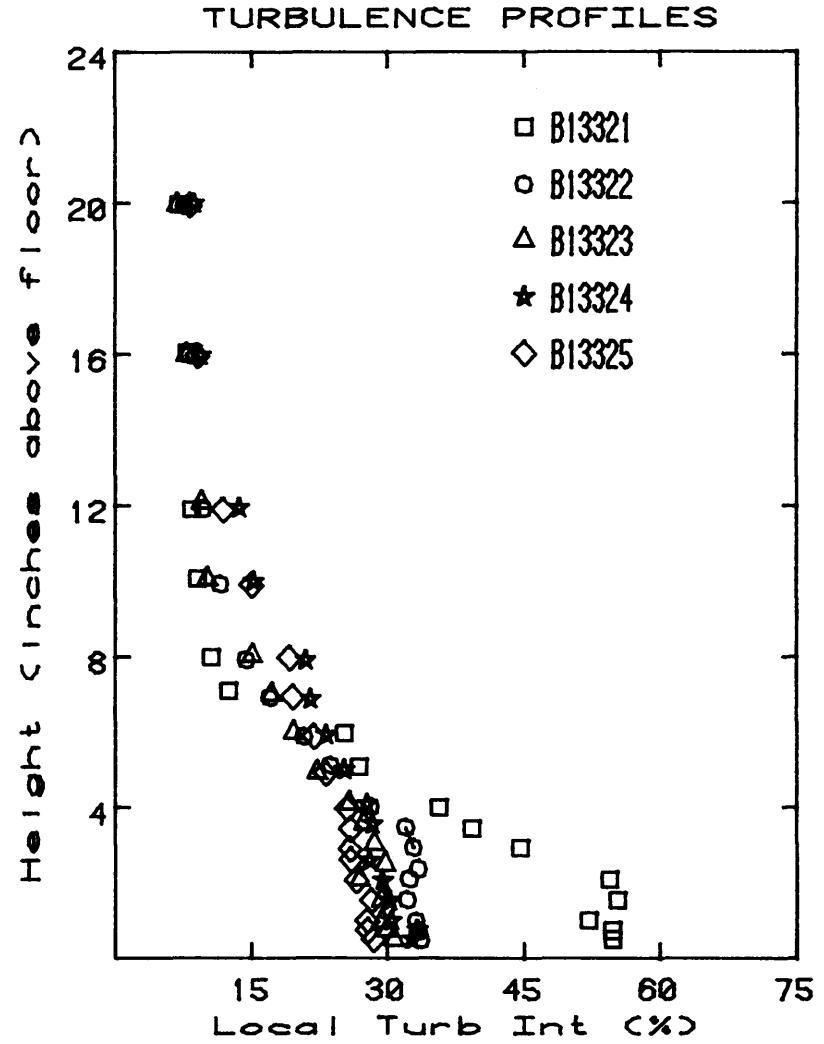
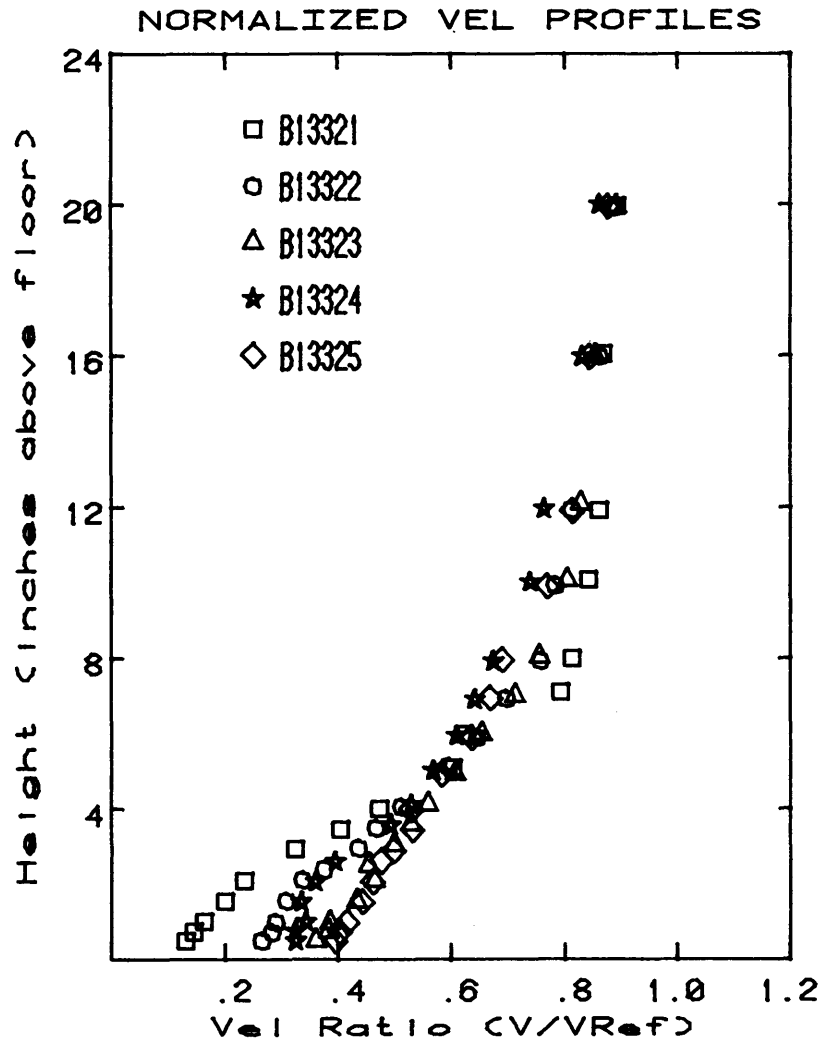


Graph # 37

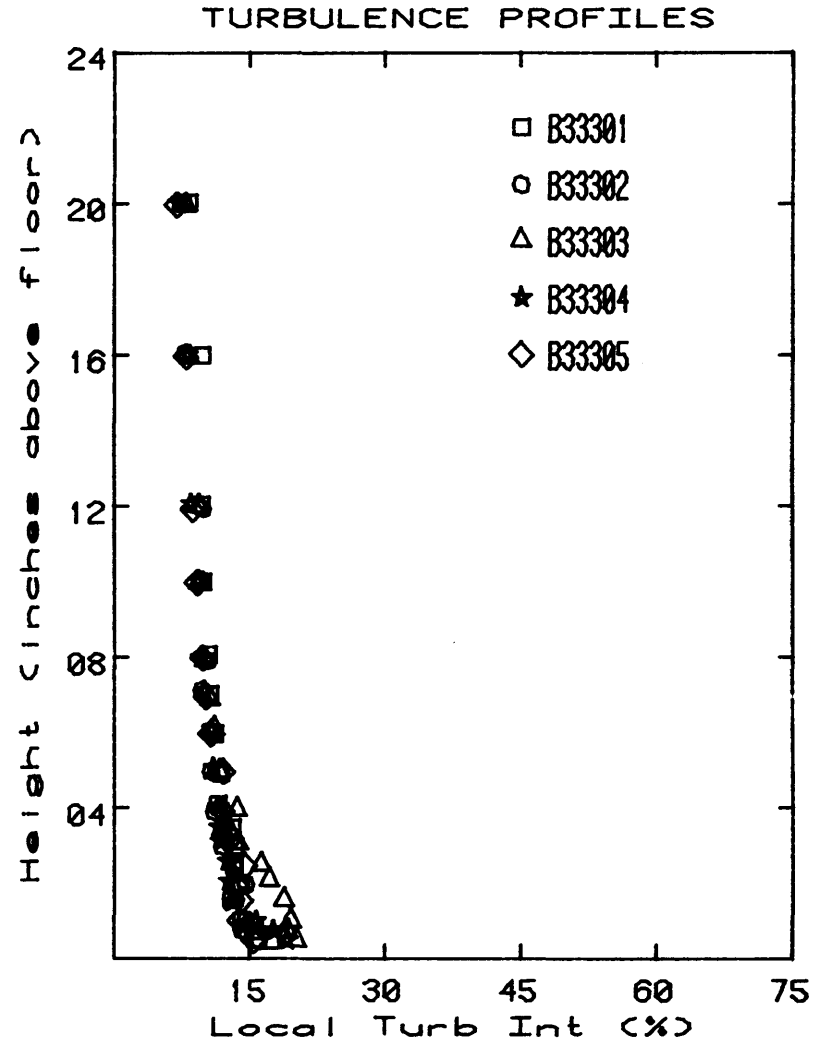
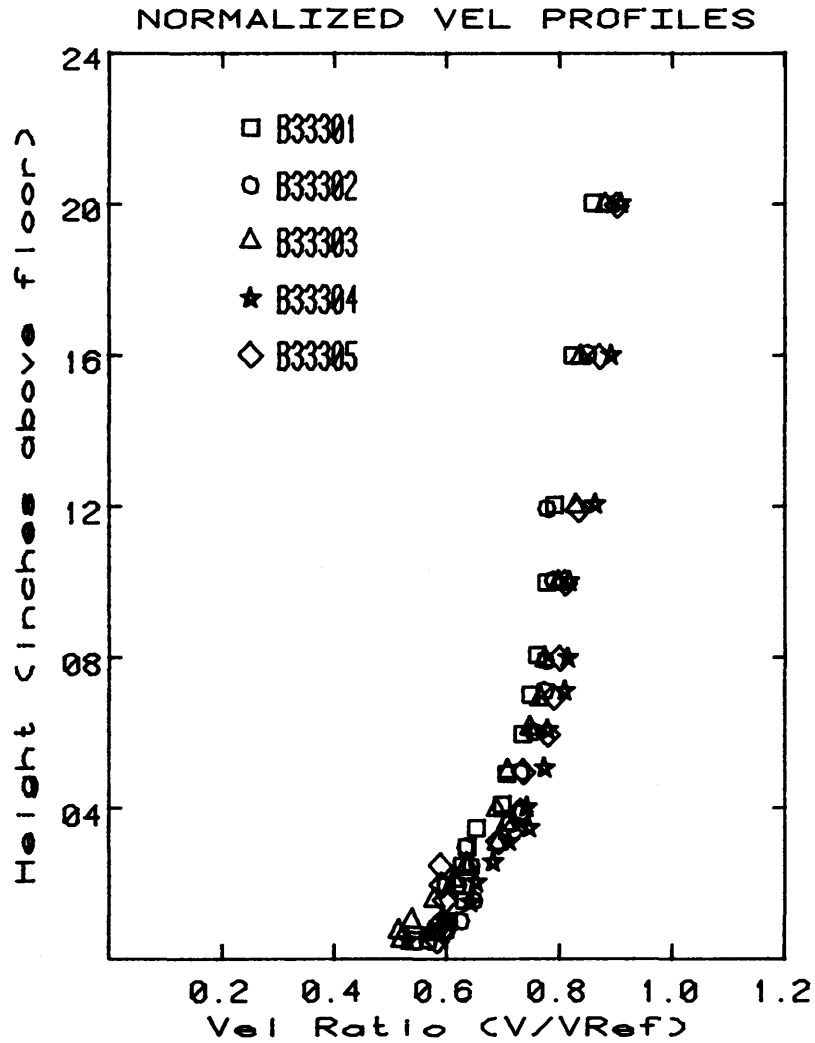




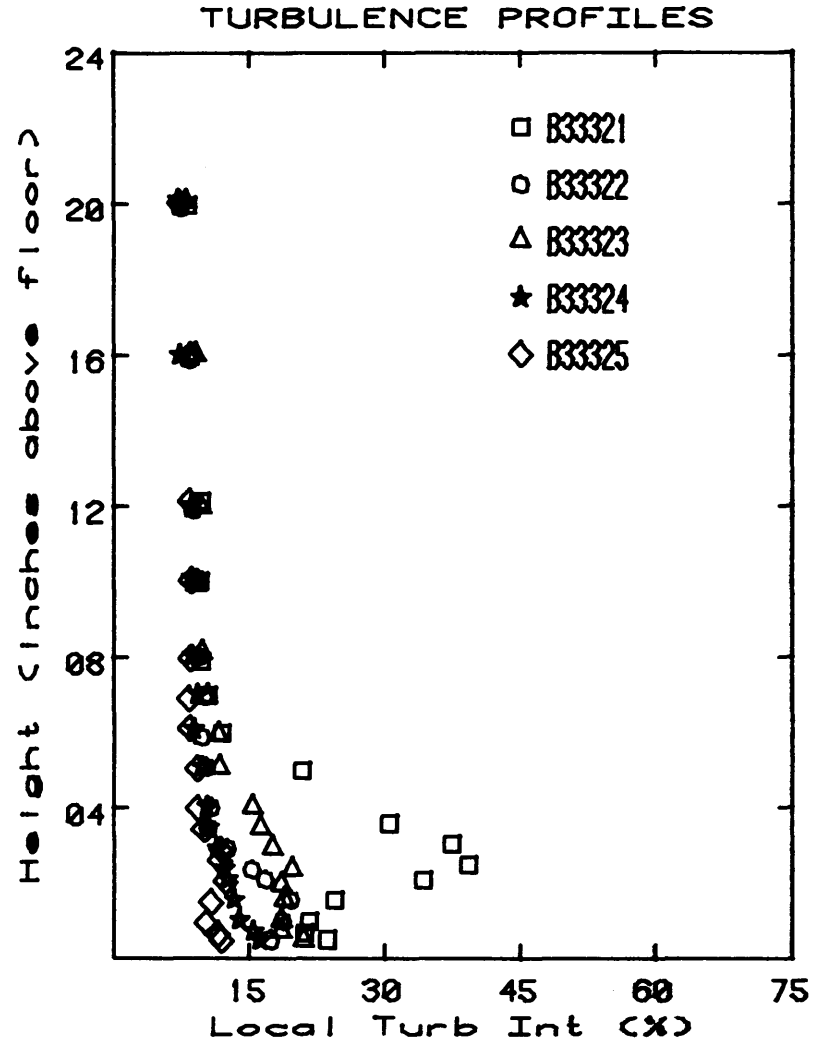
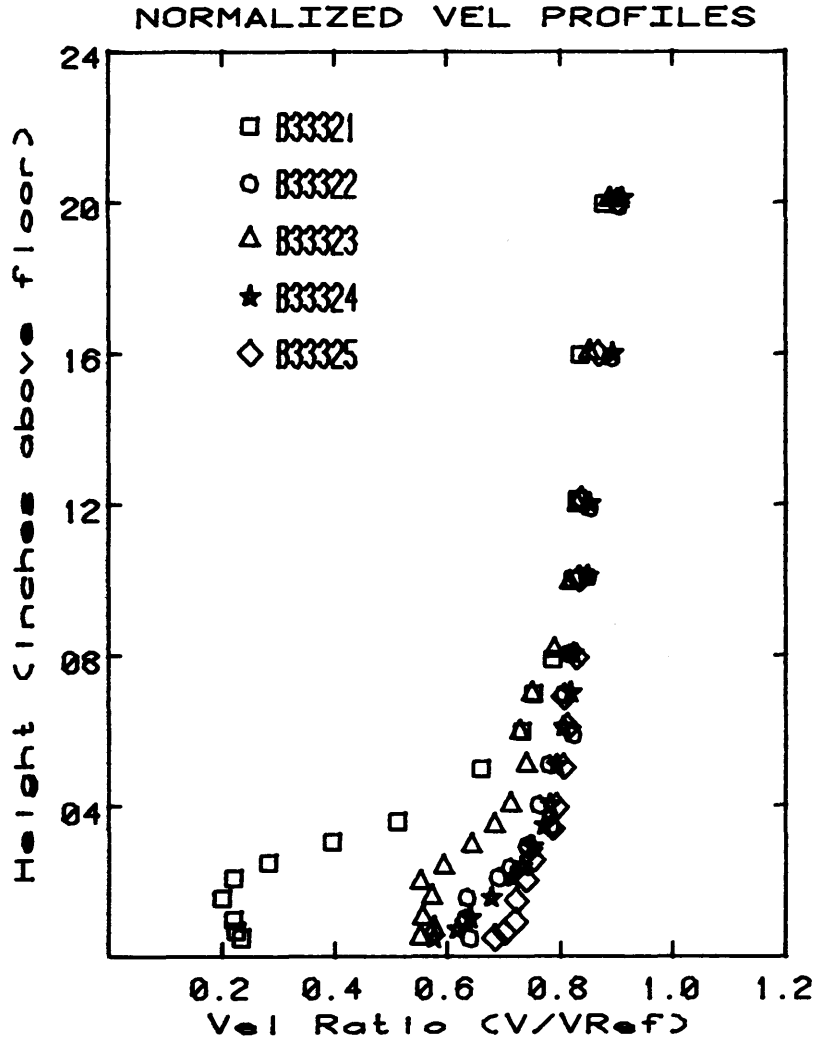
Graph # 38



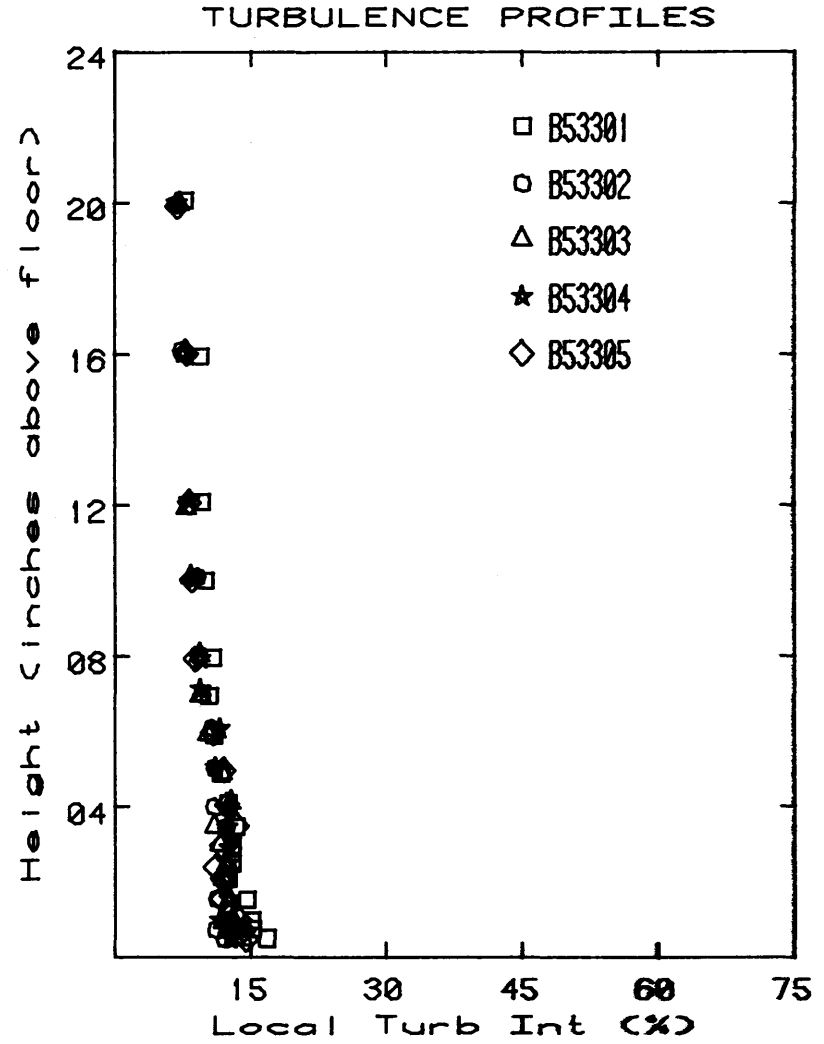
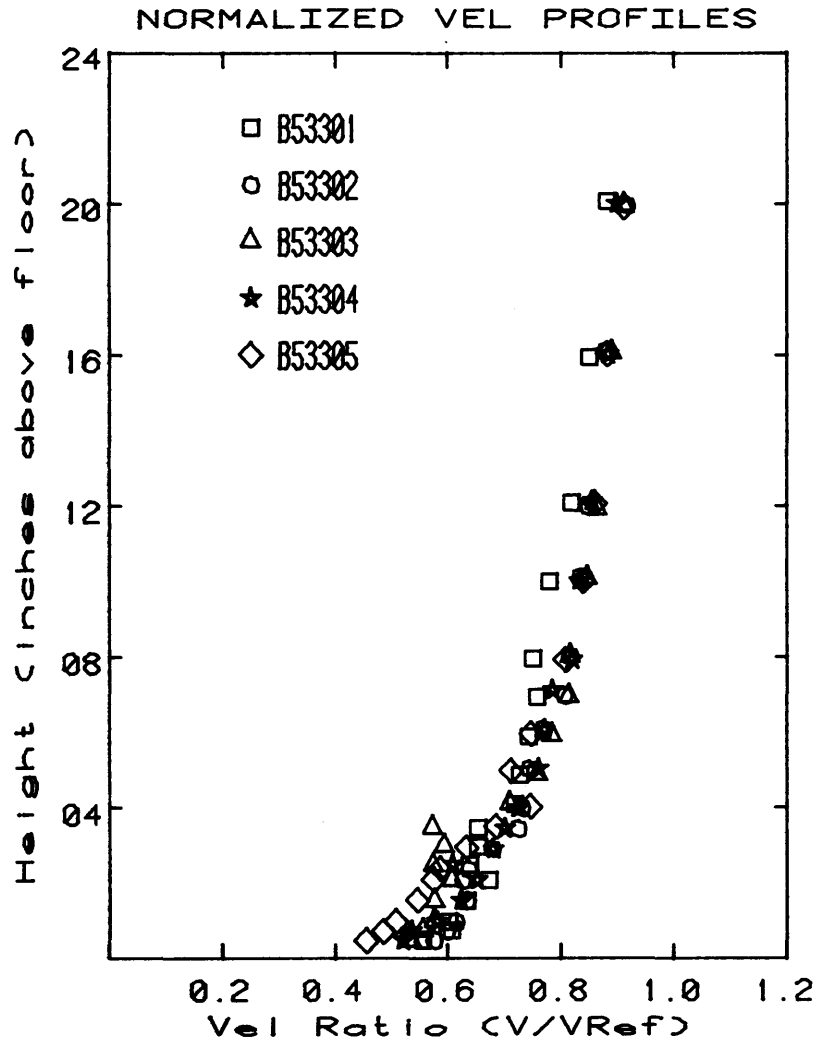
Graph # 39



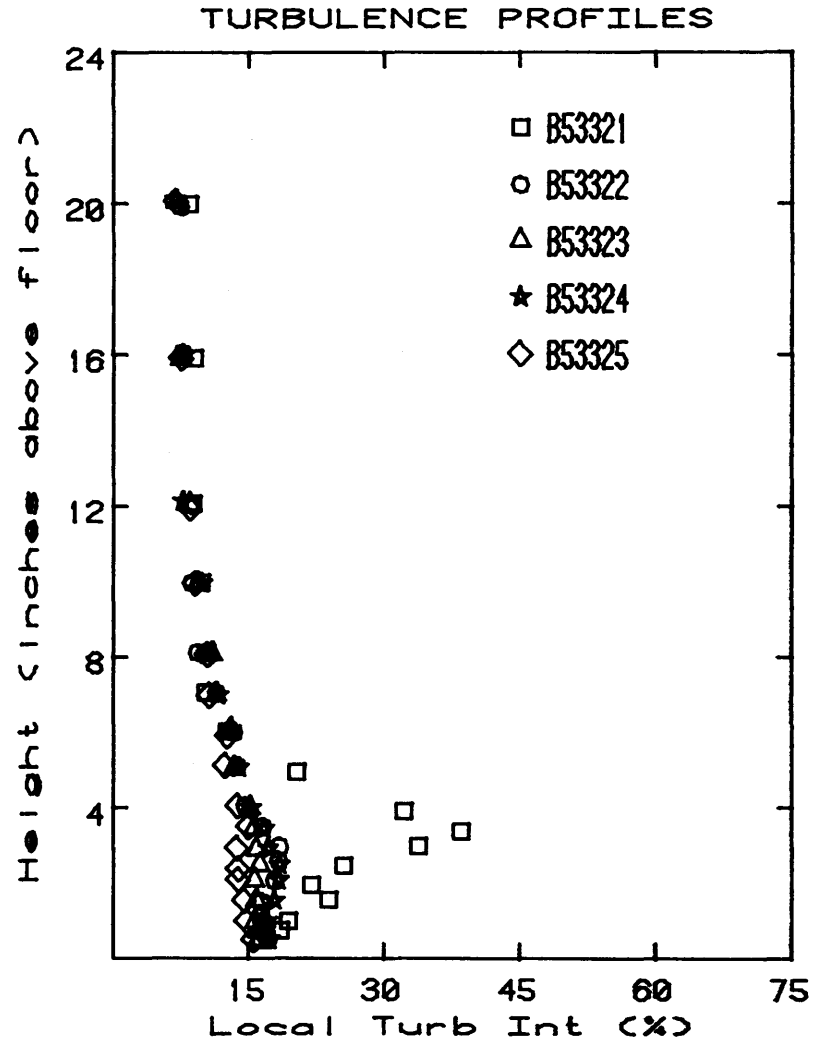
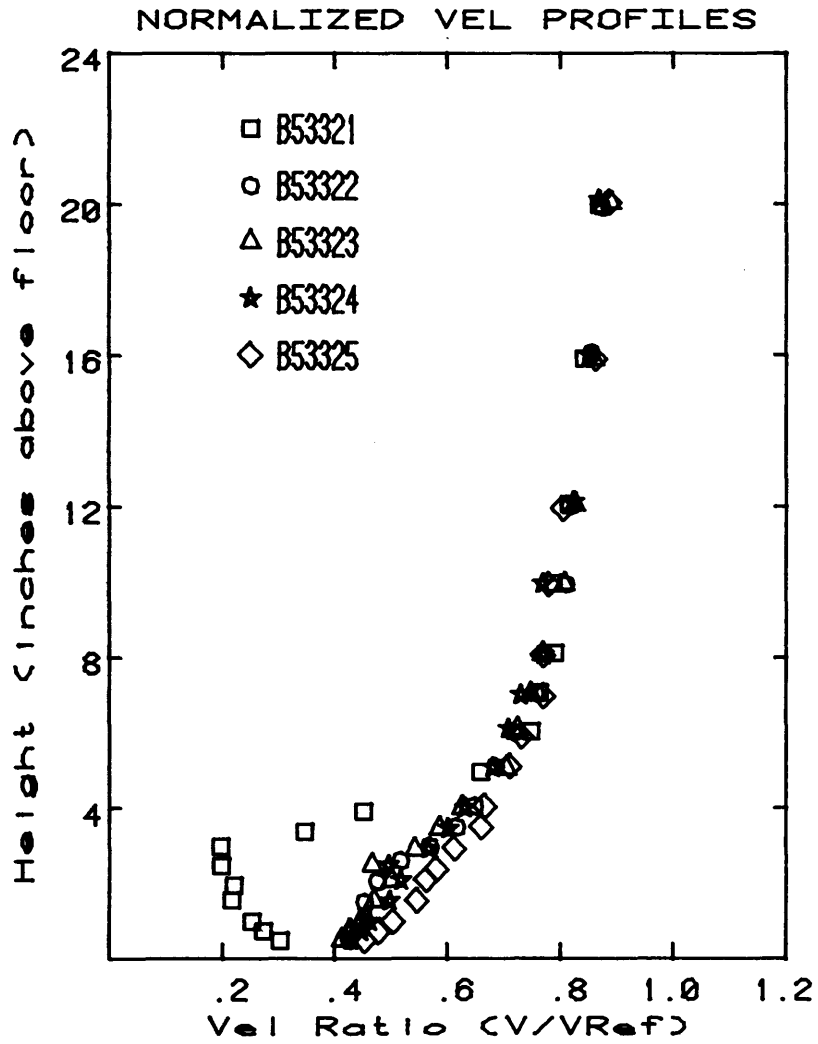
Graph # 40



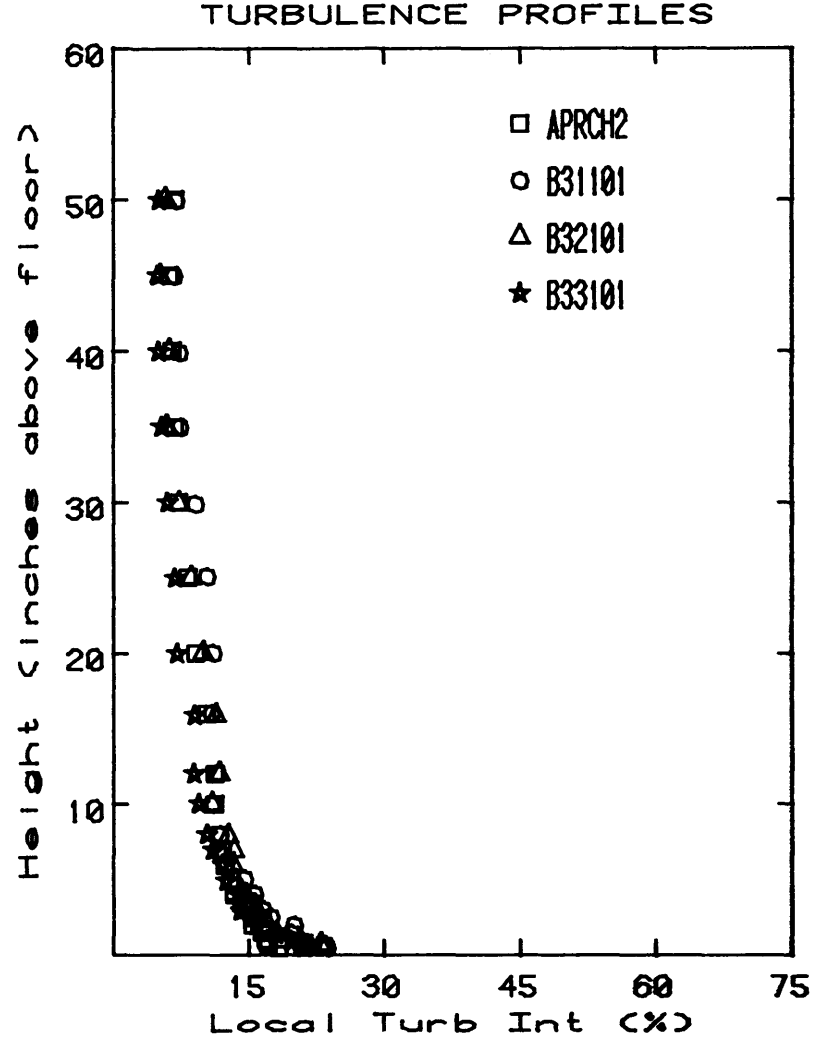
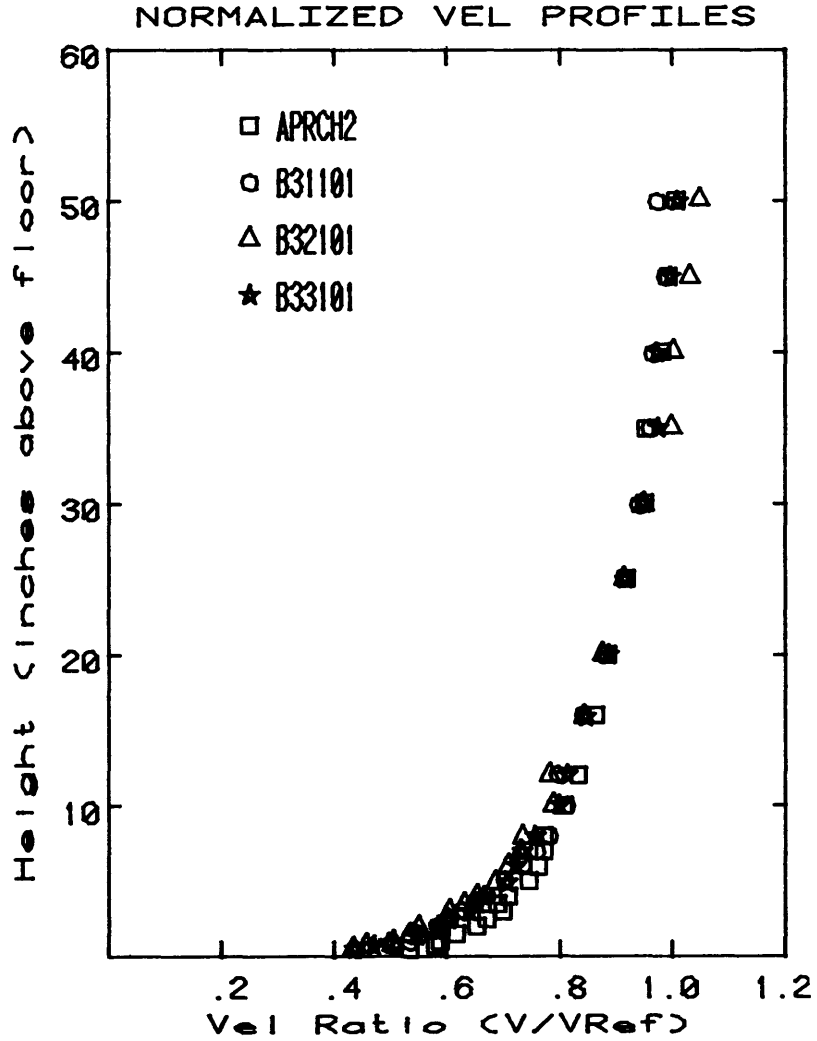
Graph # 41



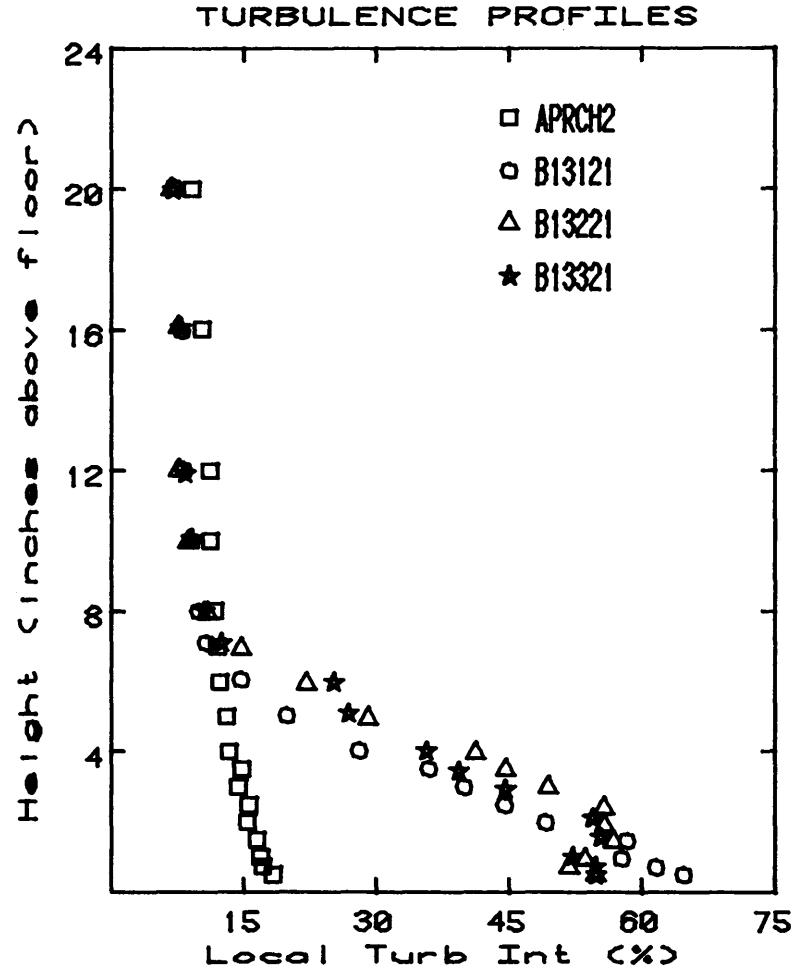
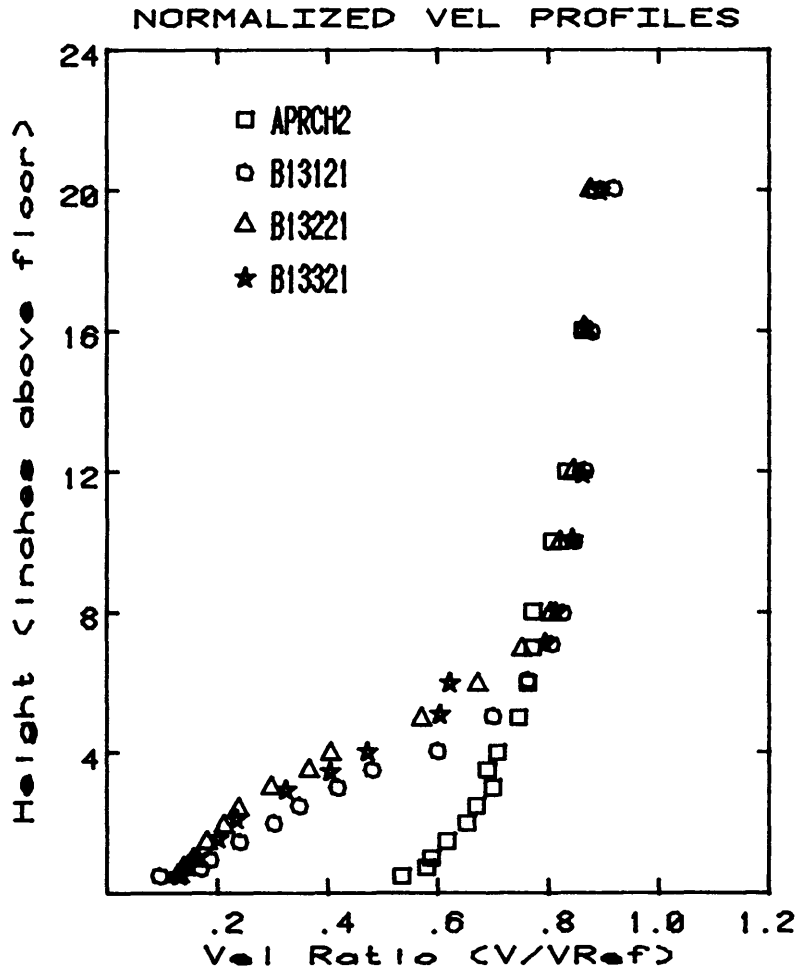
Graph # 42



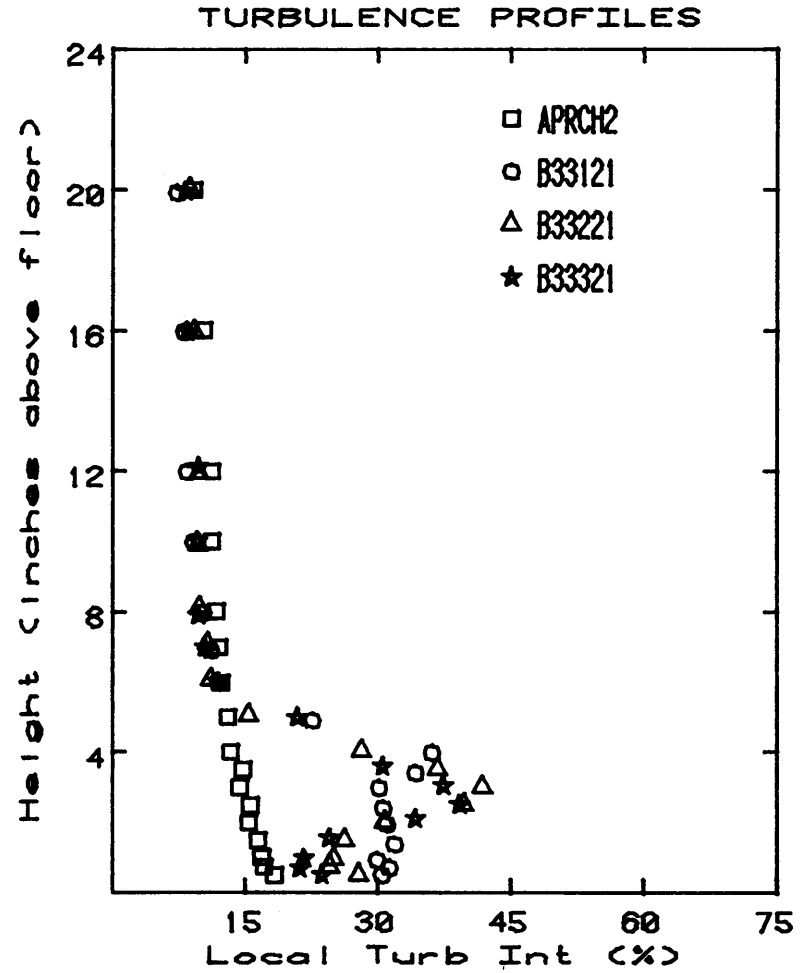
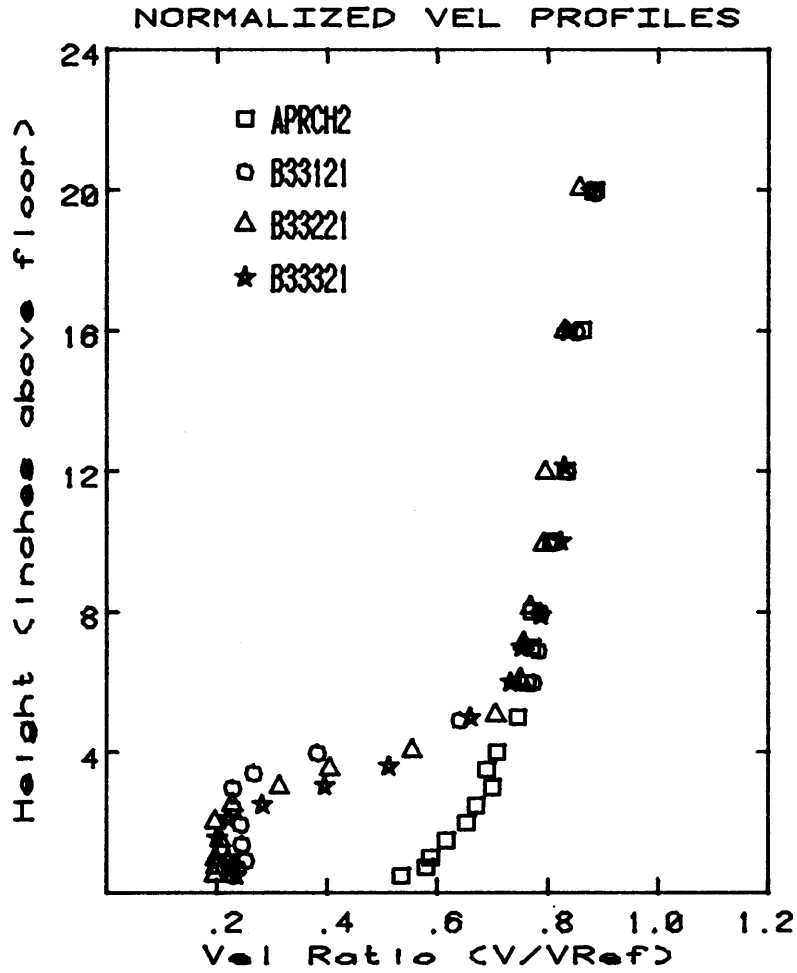
Graph # 43



Graph # 44

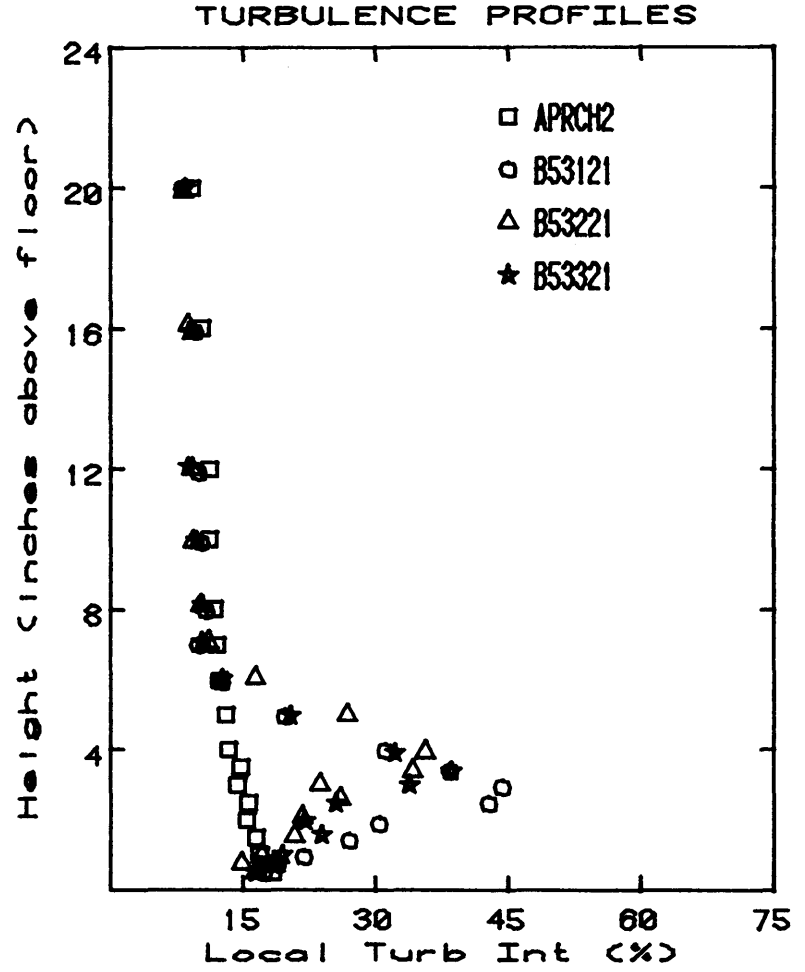
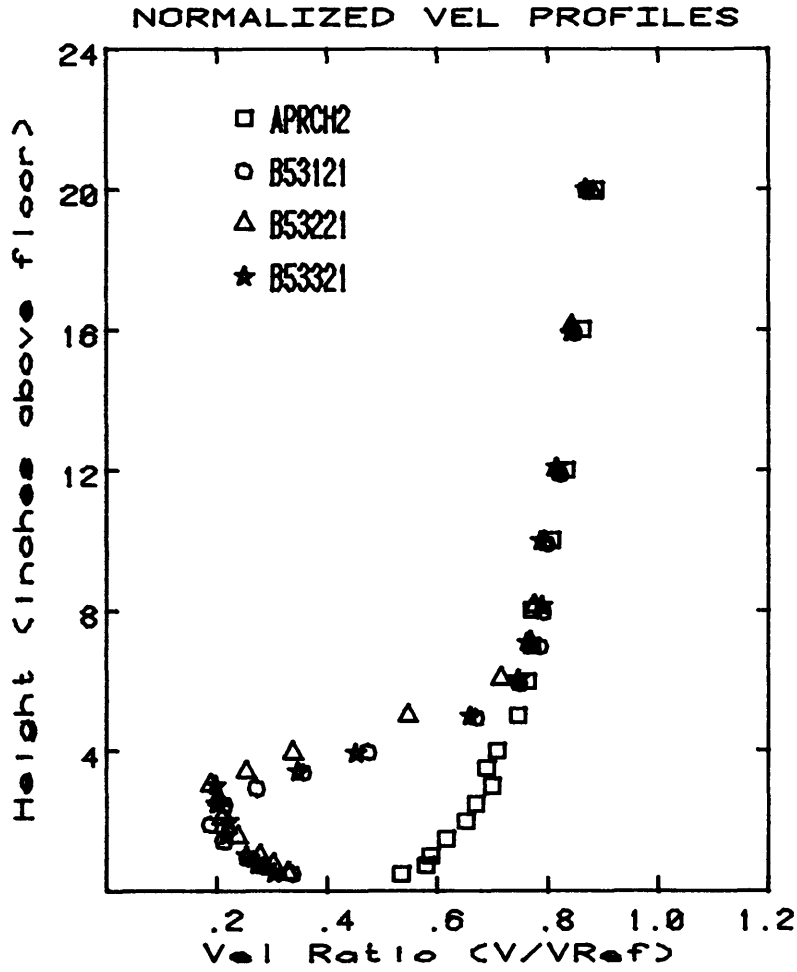


Graph # 45

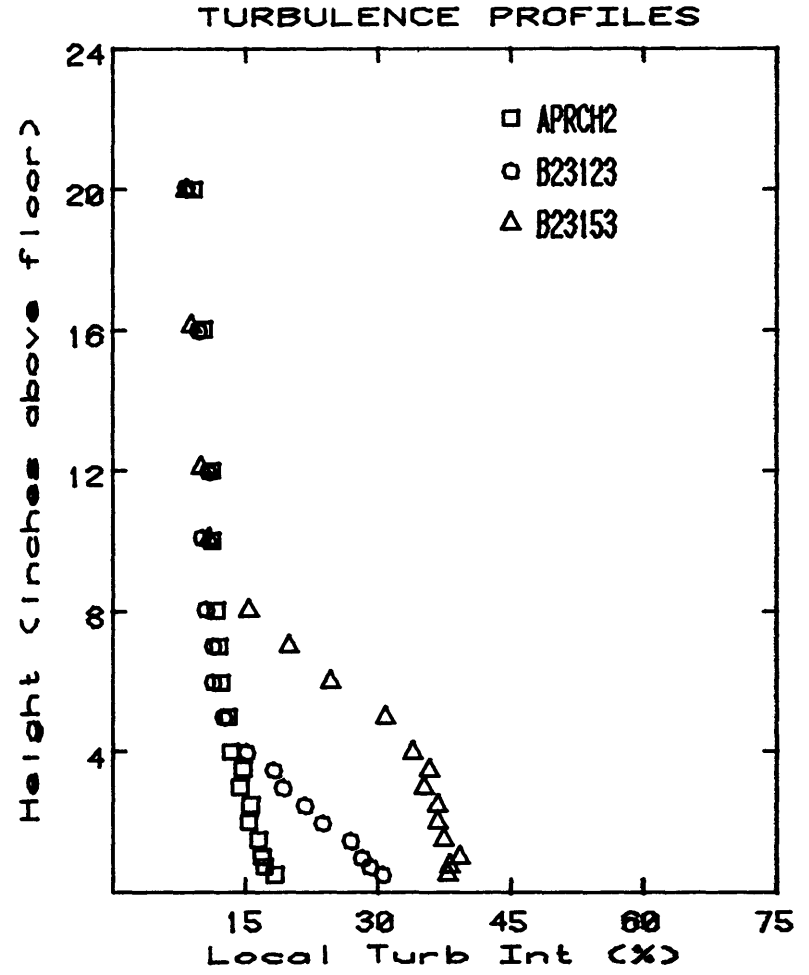
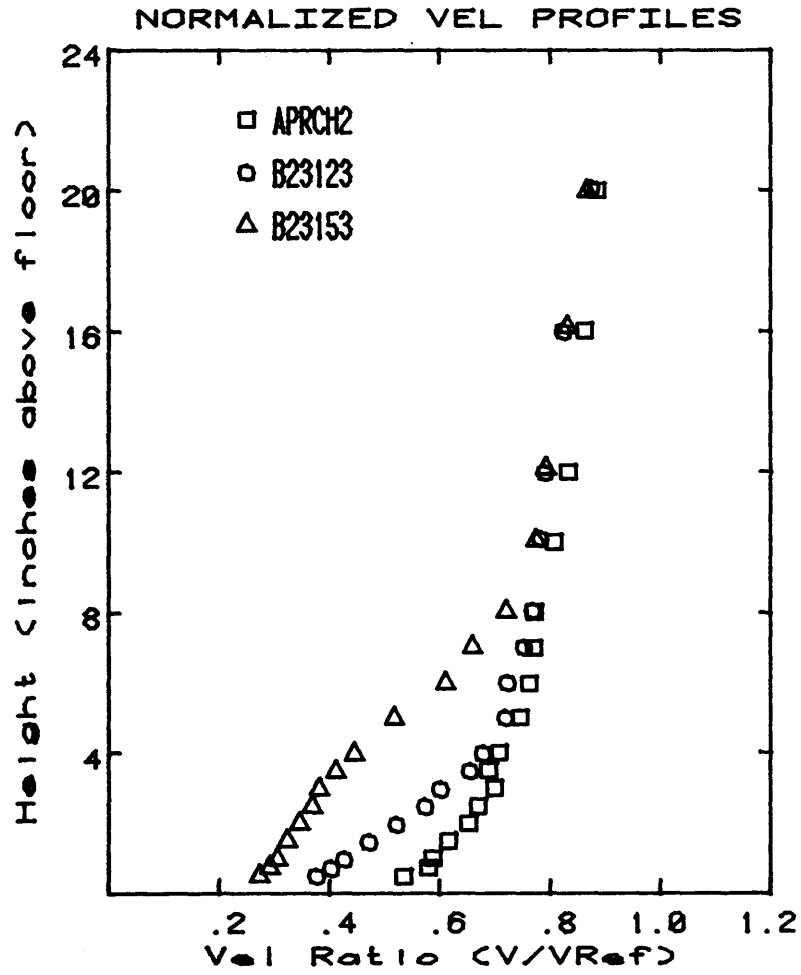




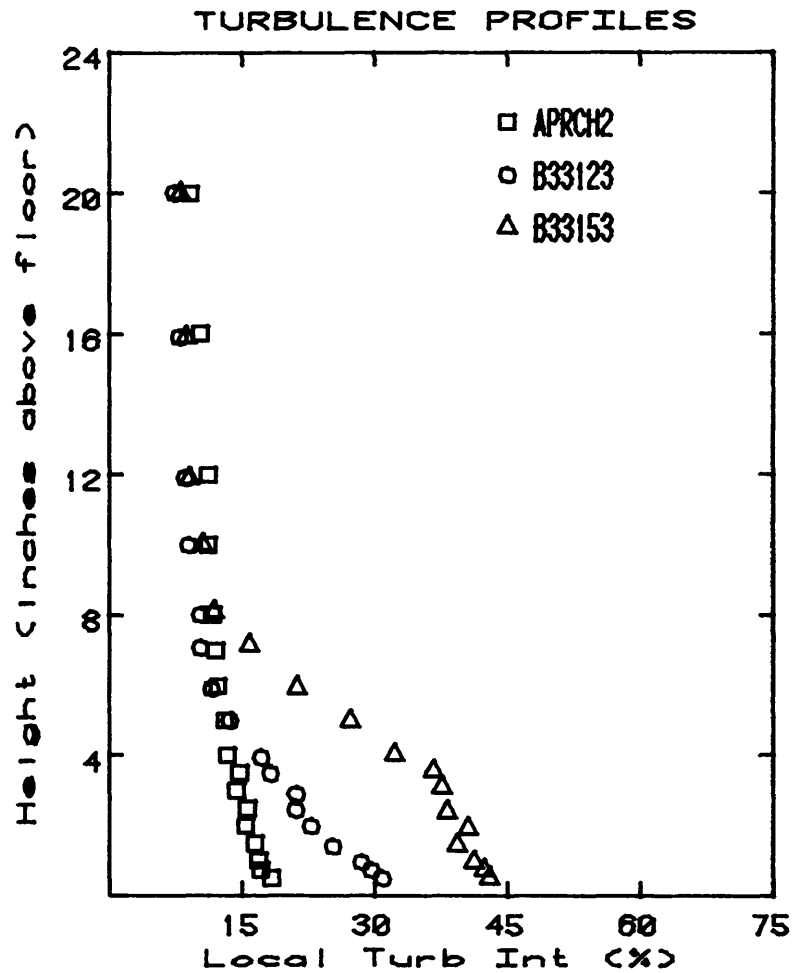
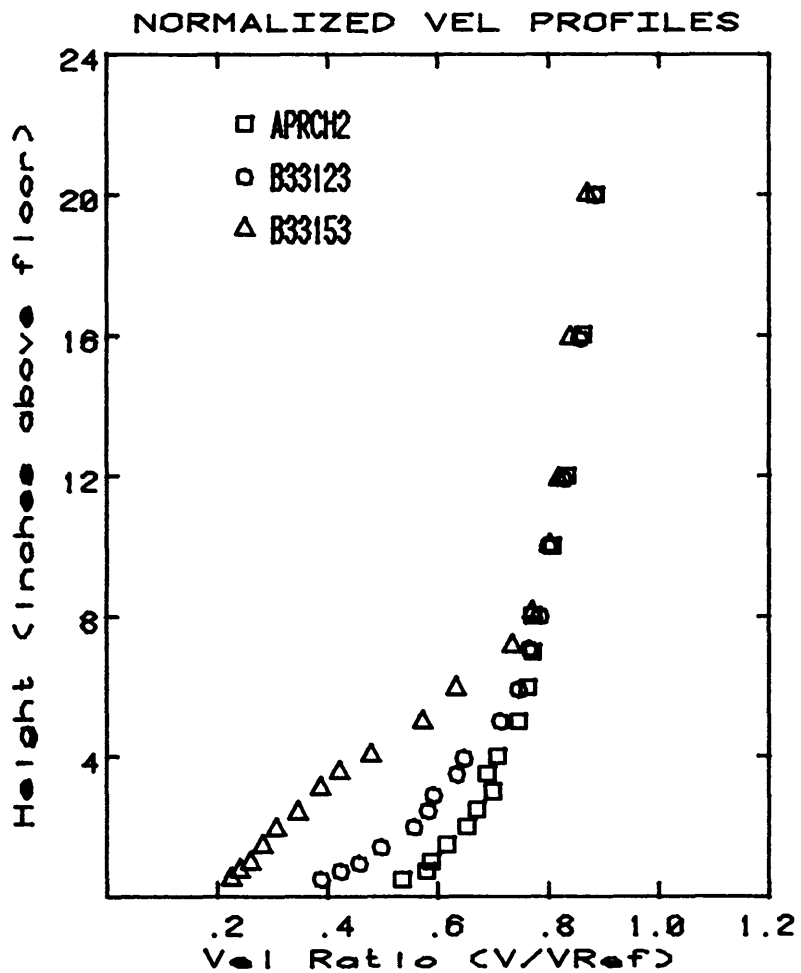
Graph # 46



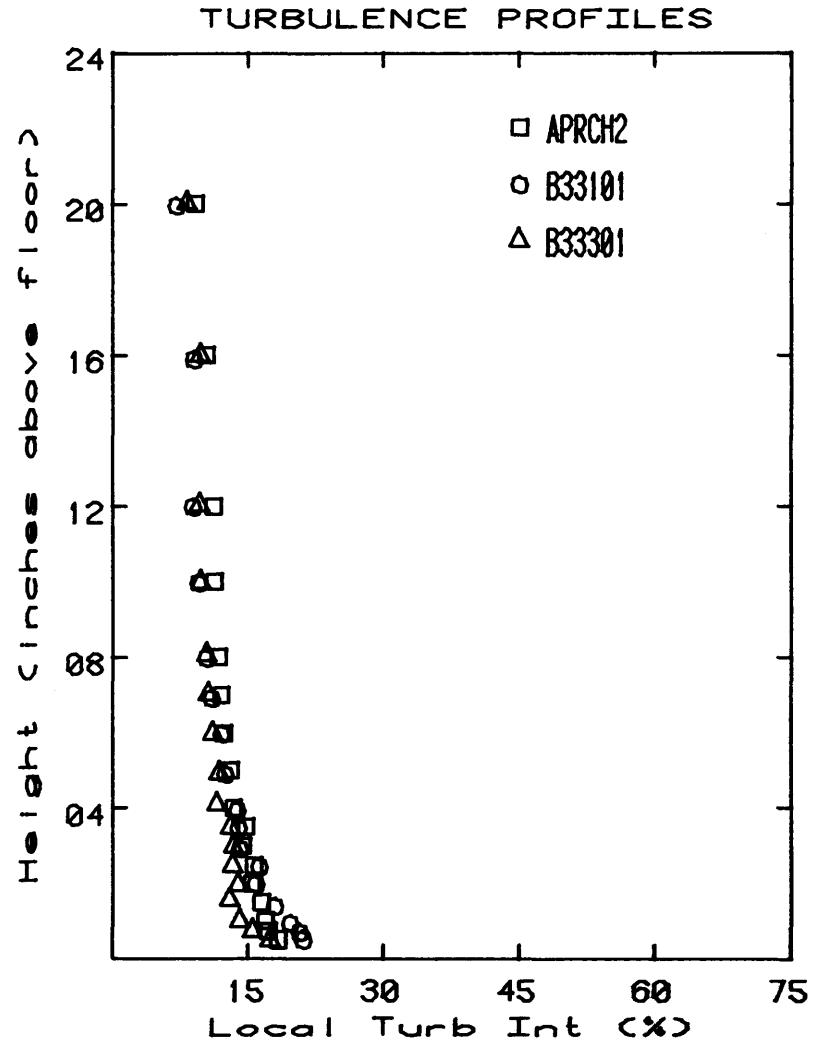
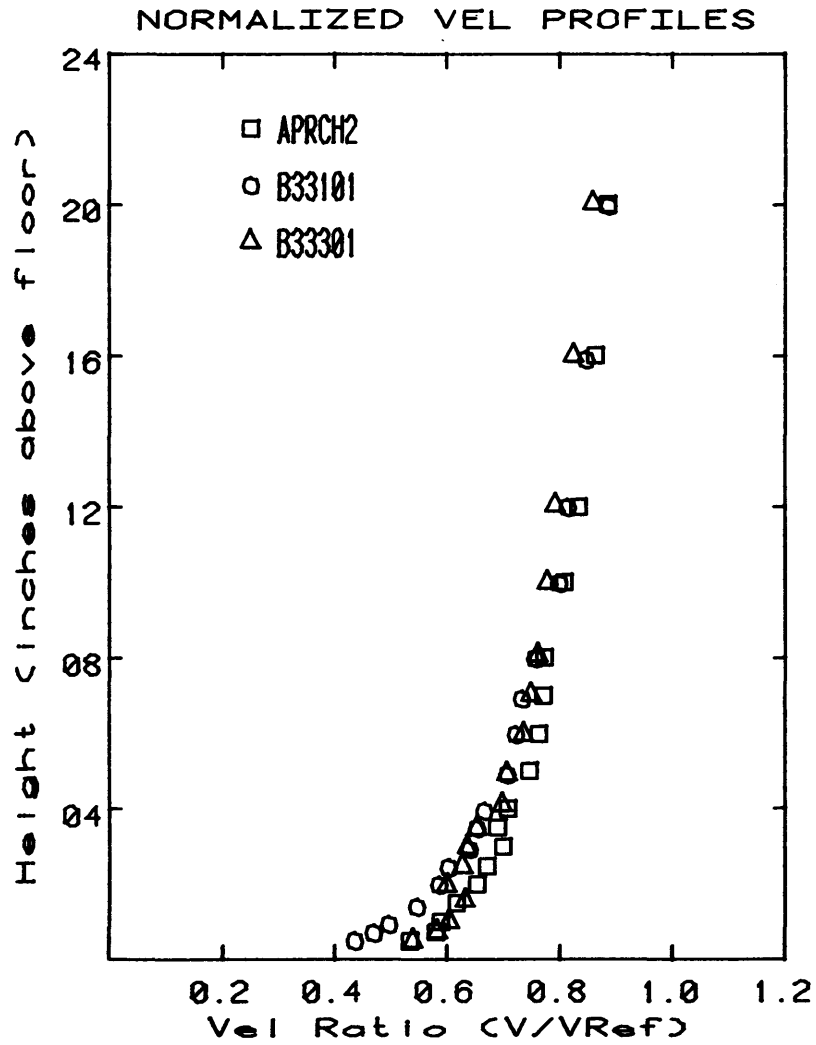
Graph # 47



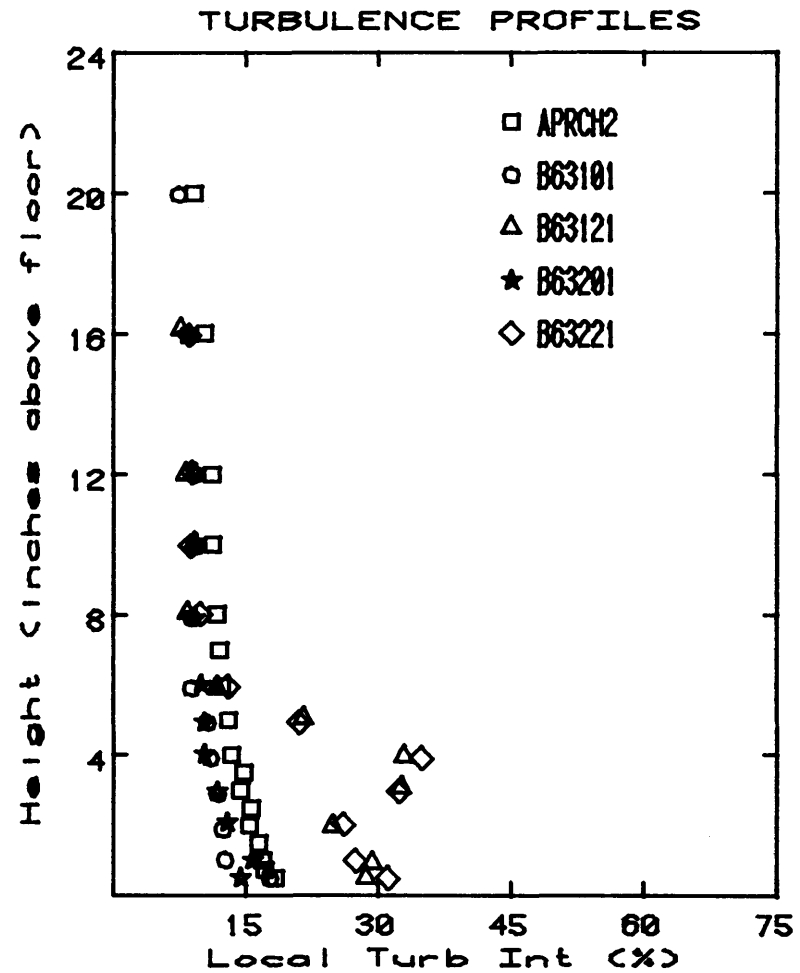
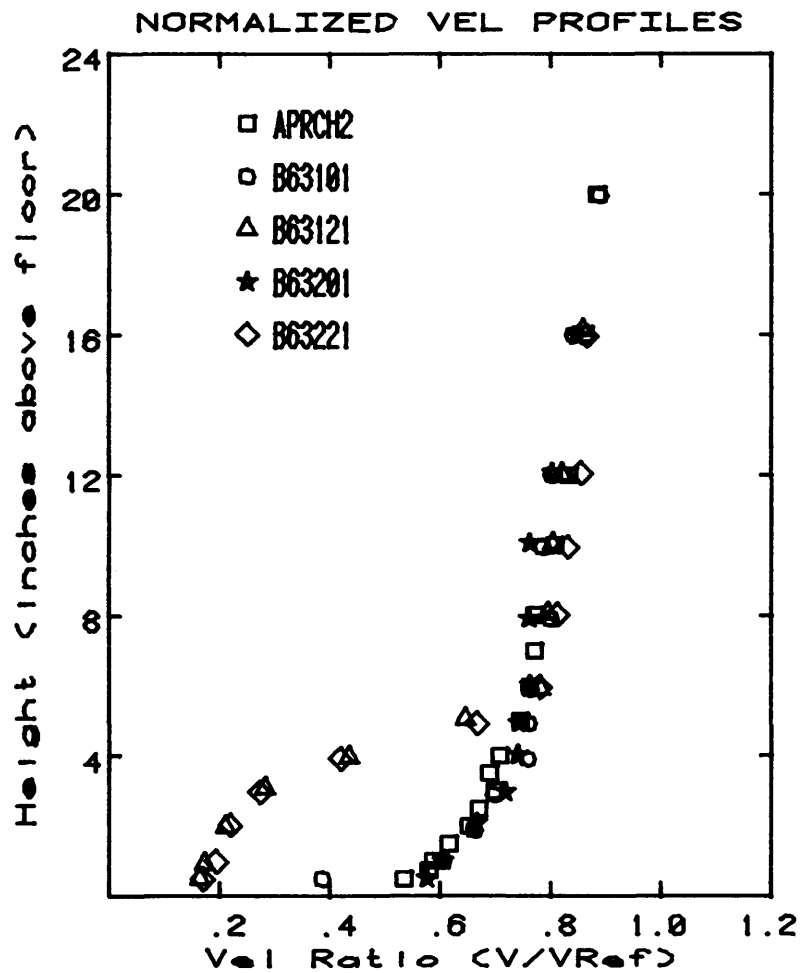
Graph # 48



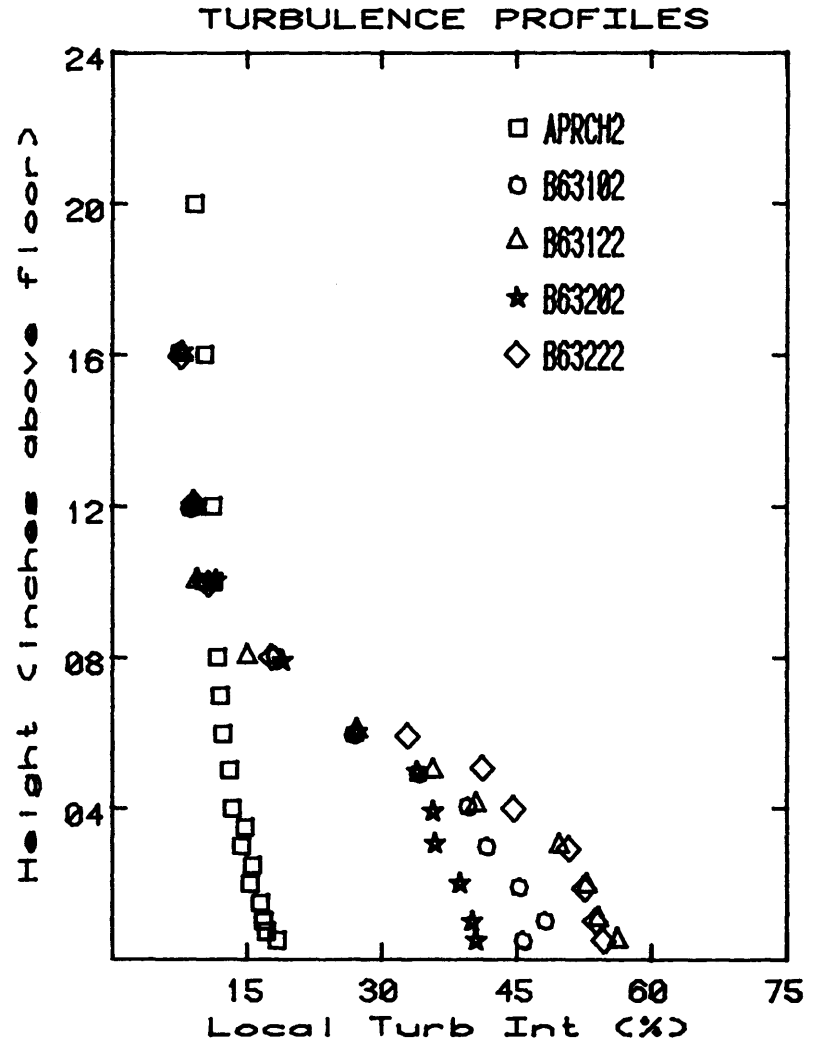
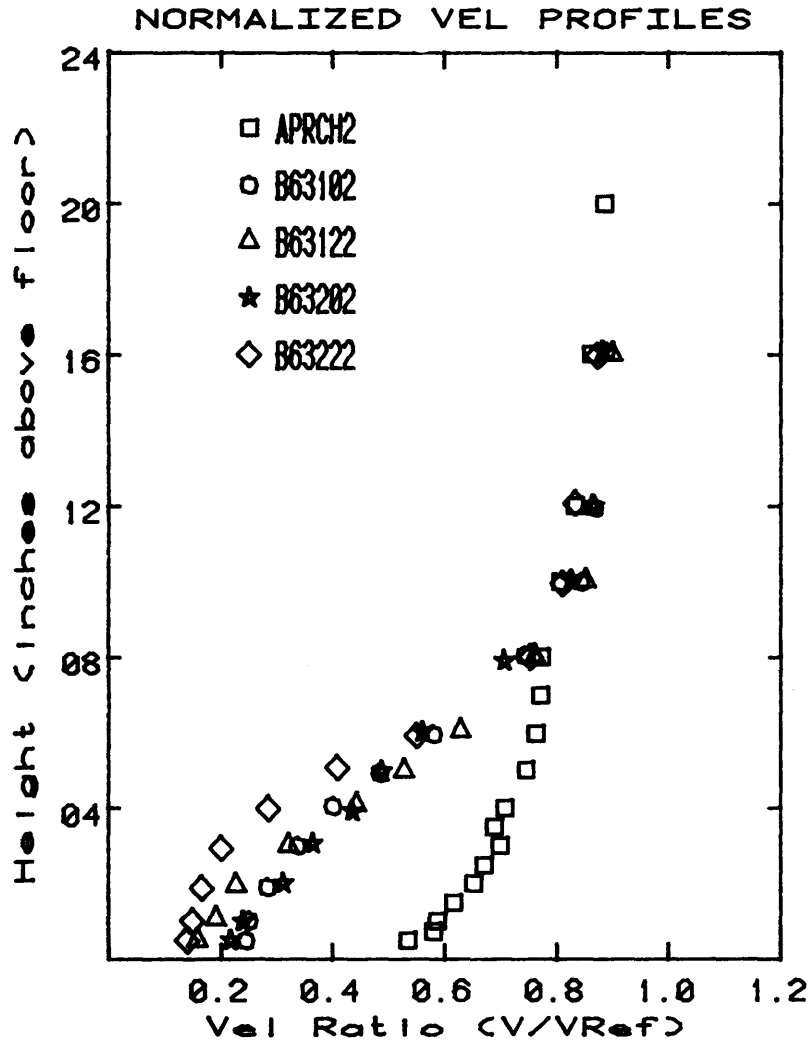
Graph # 49



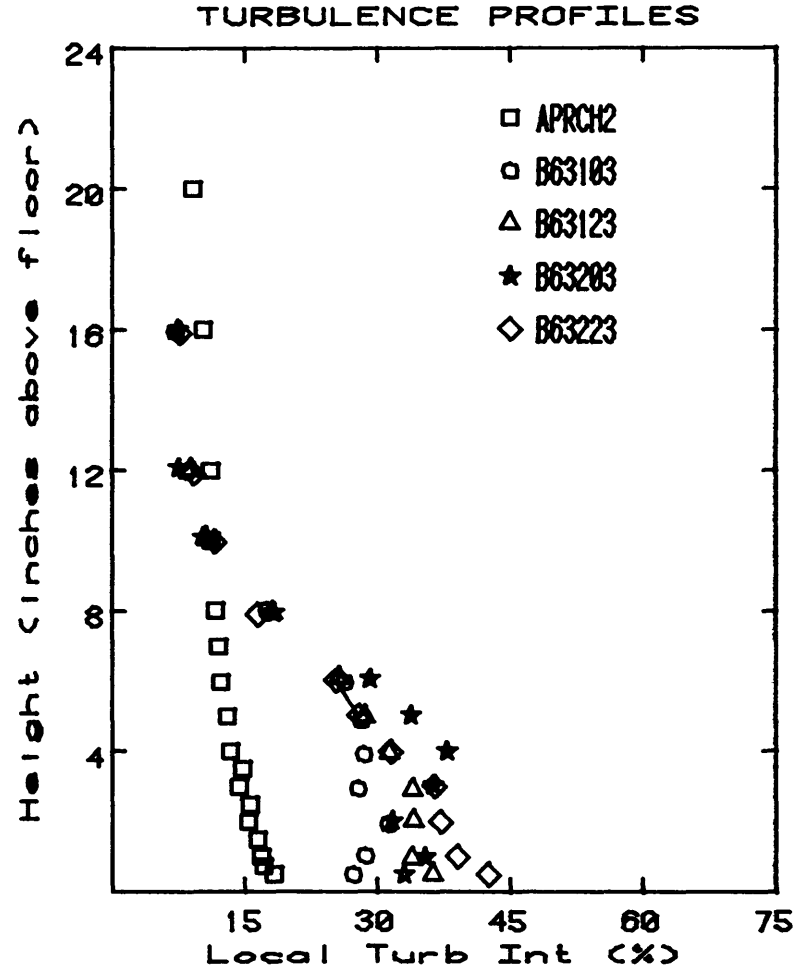
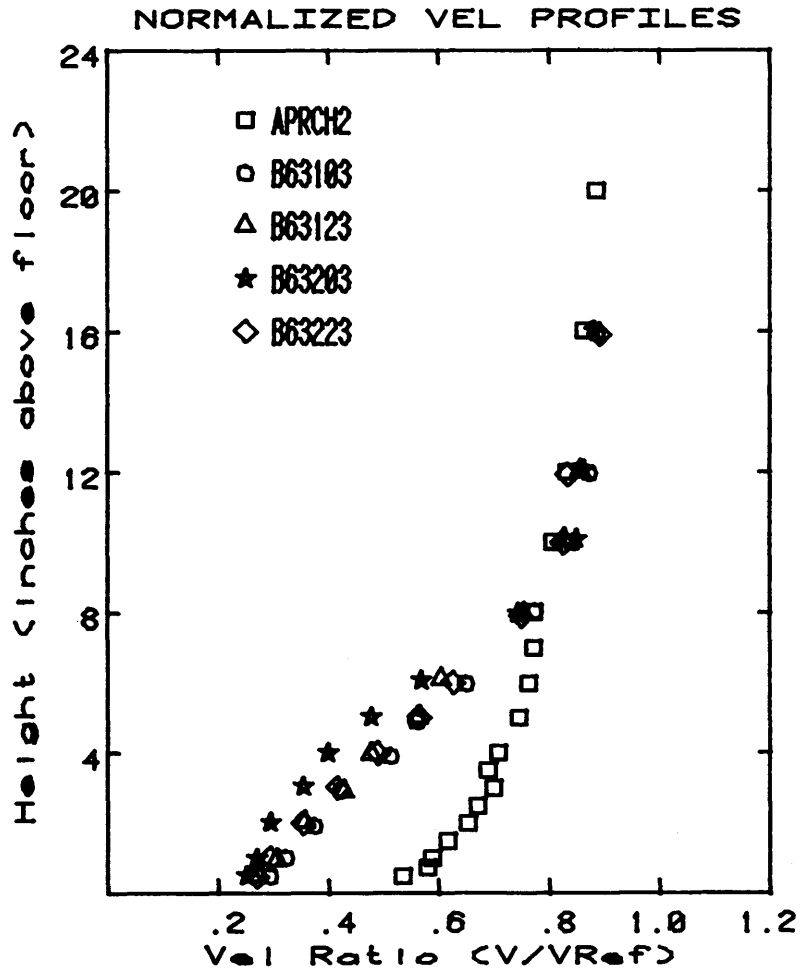
Graph # 50



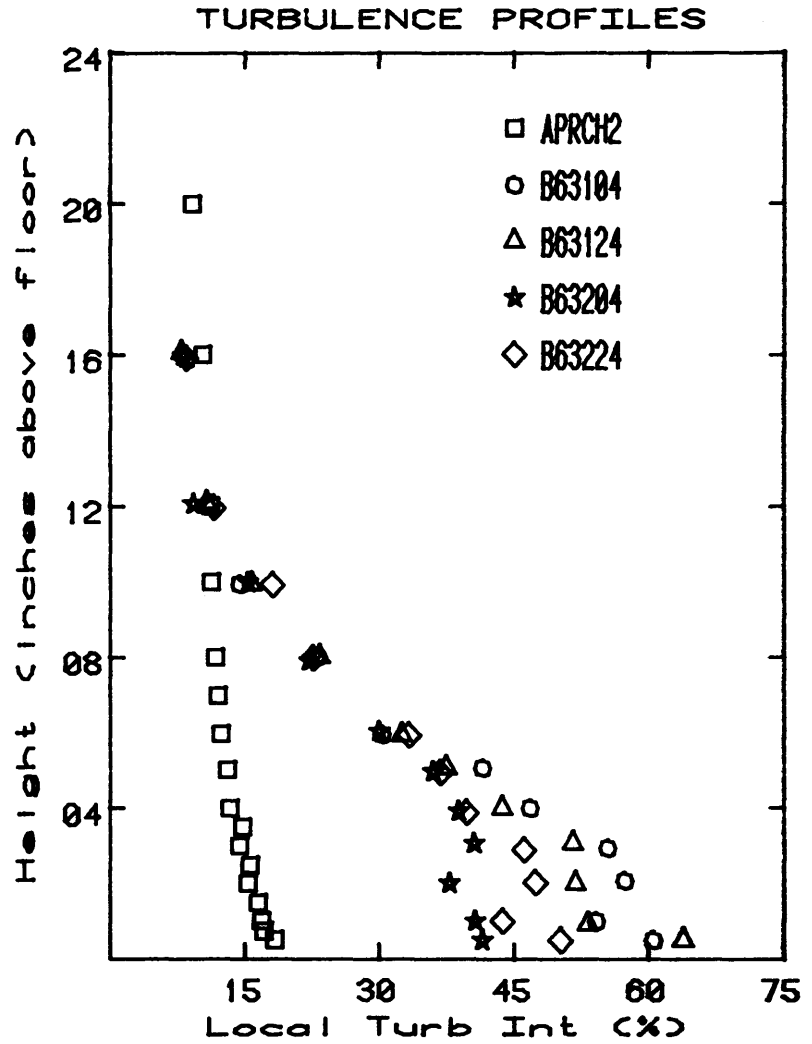
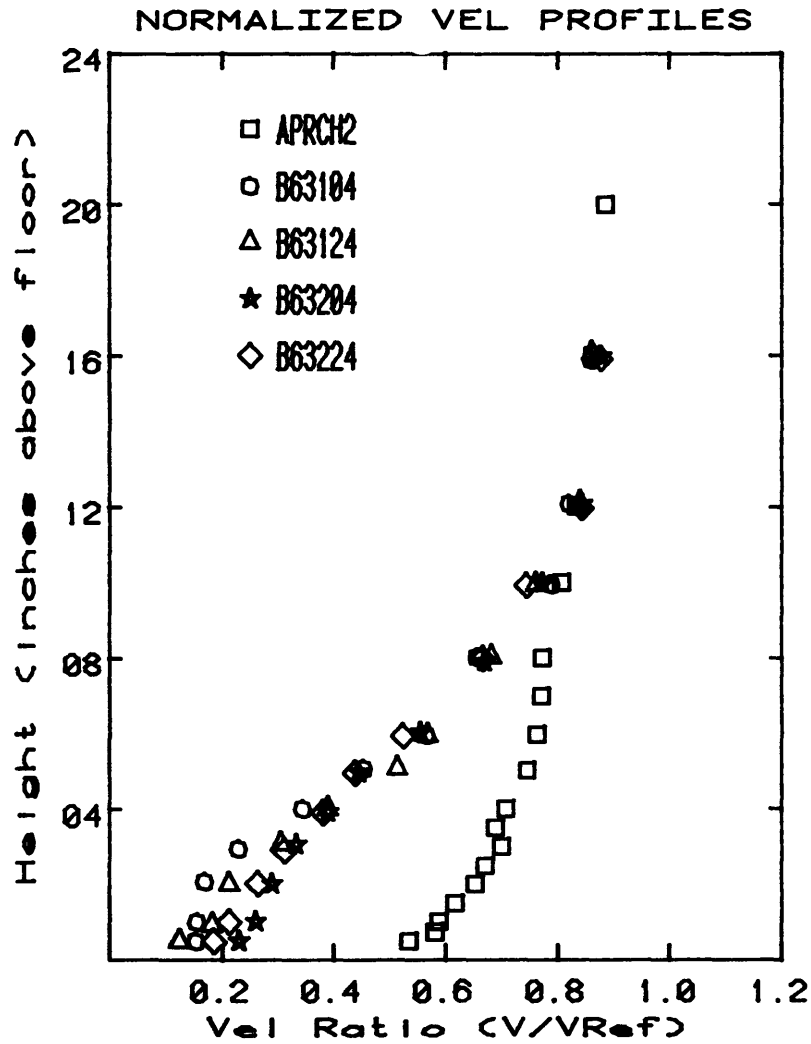
Graph # 51



Graph # 52

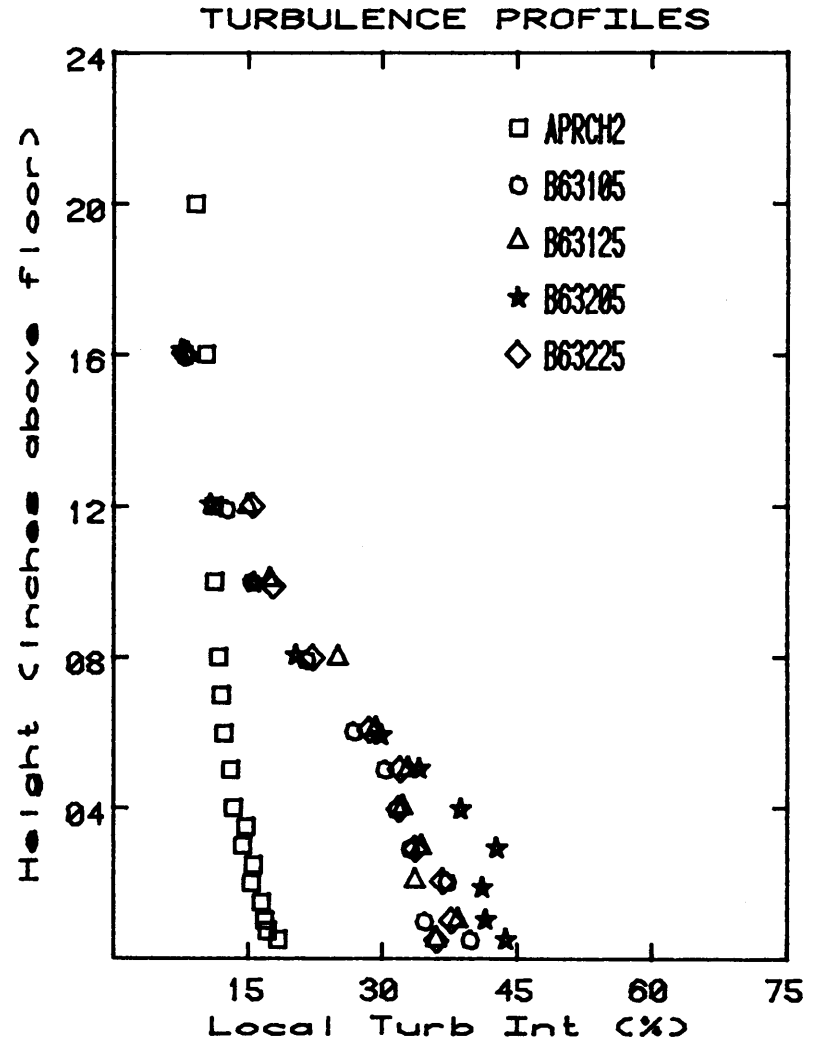
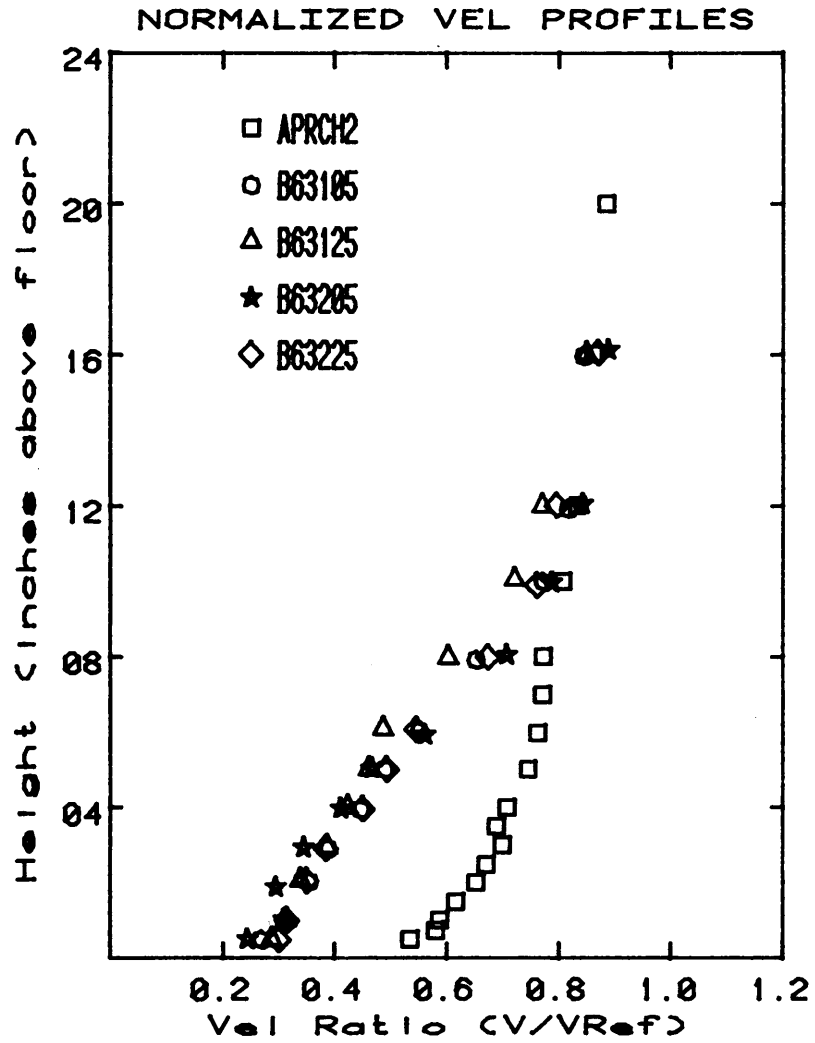


Graph # 53

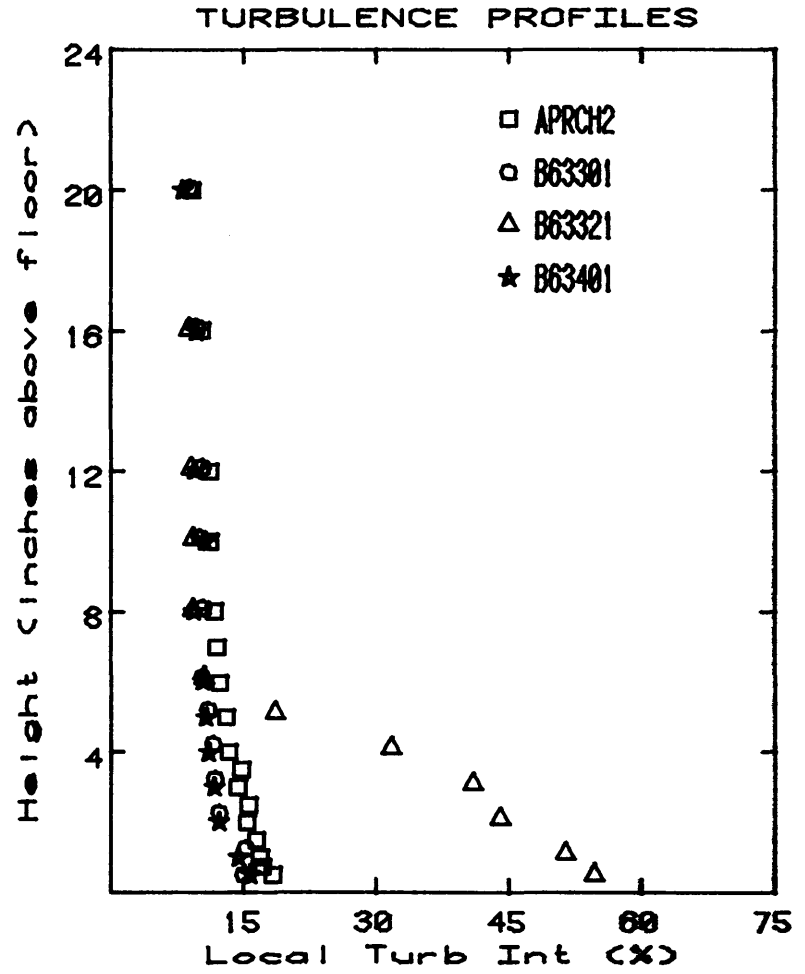
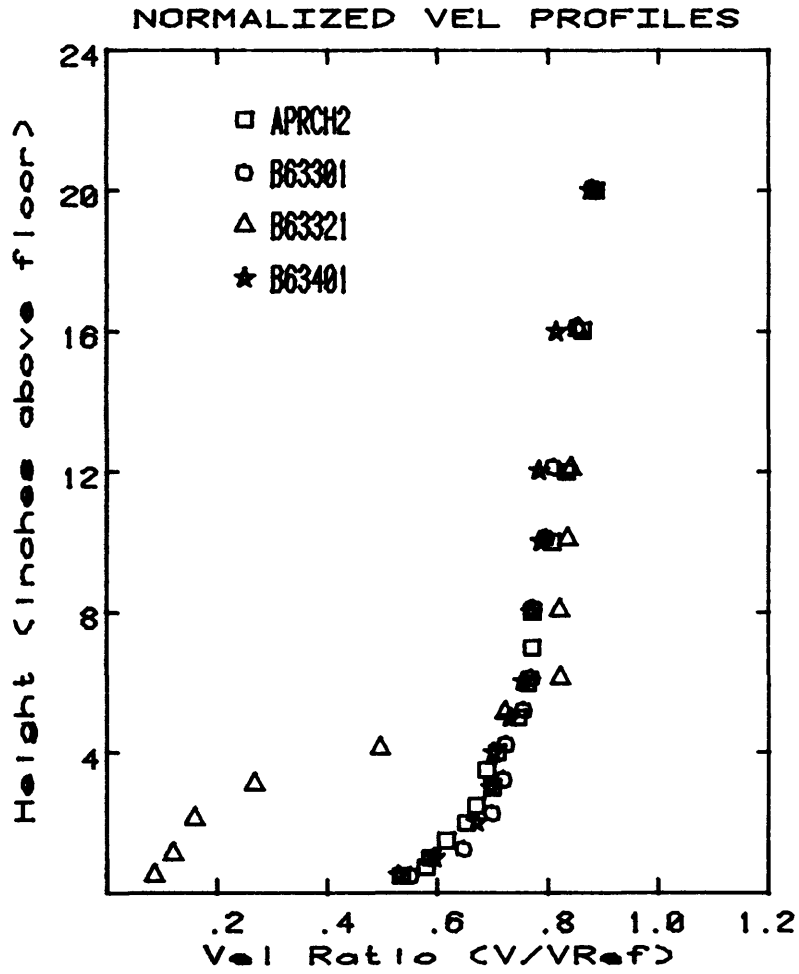




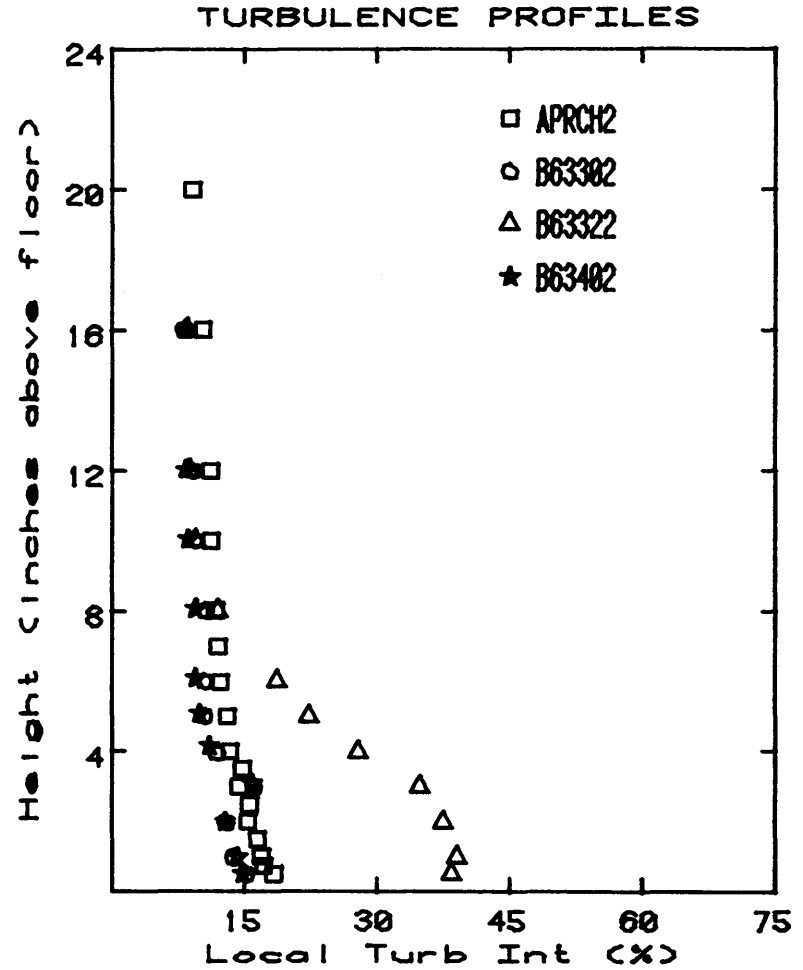
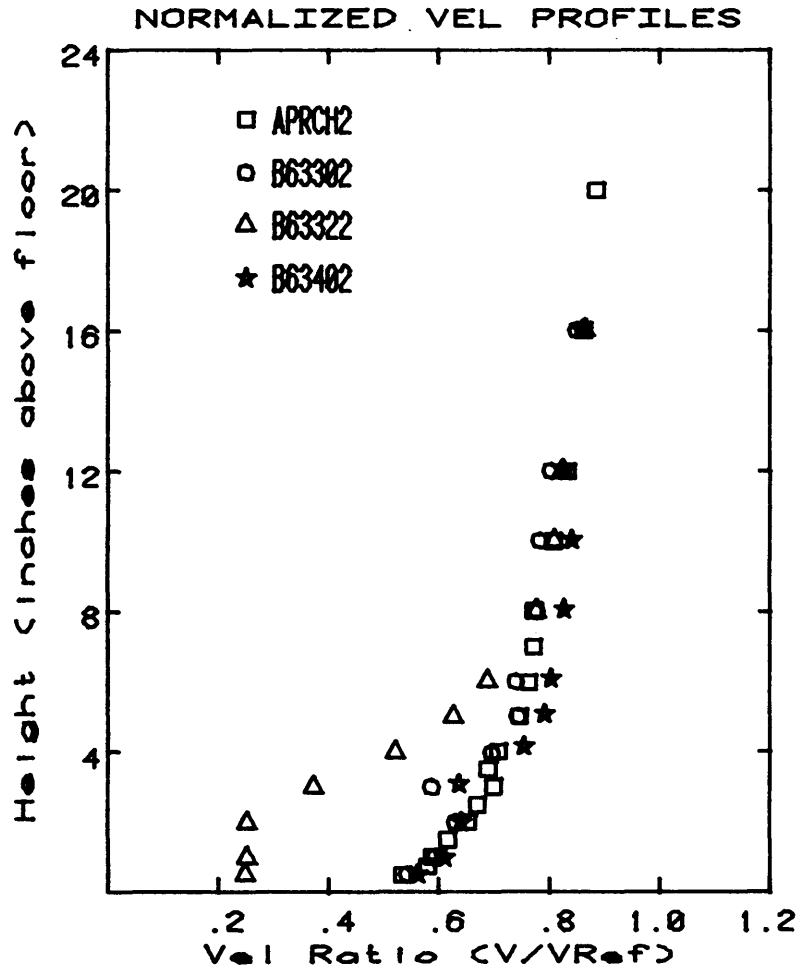
Graph # 54



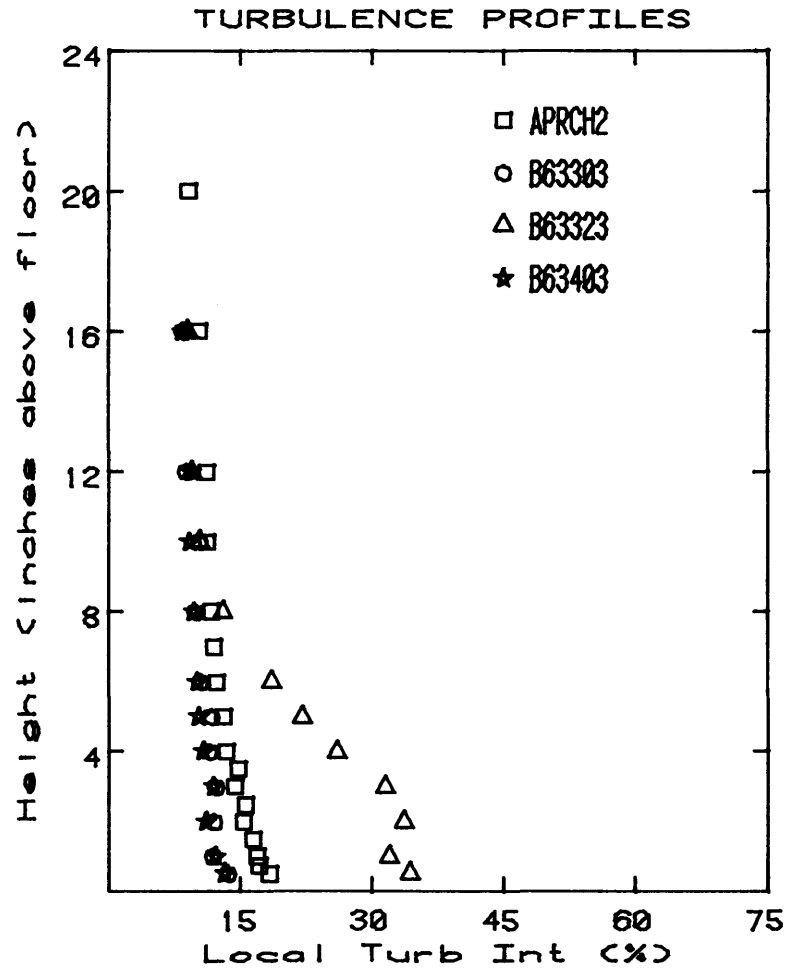
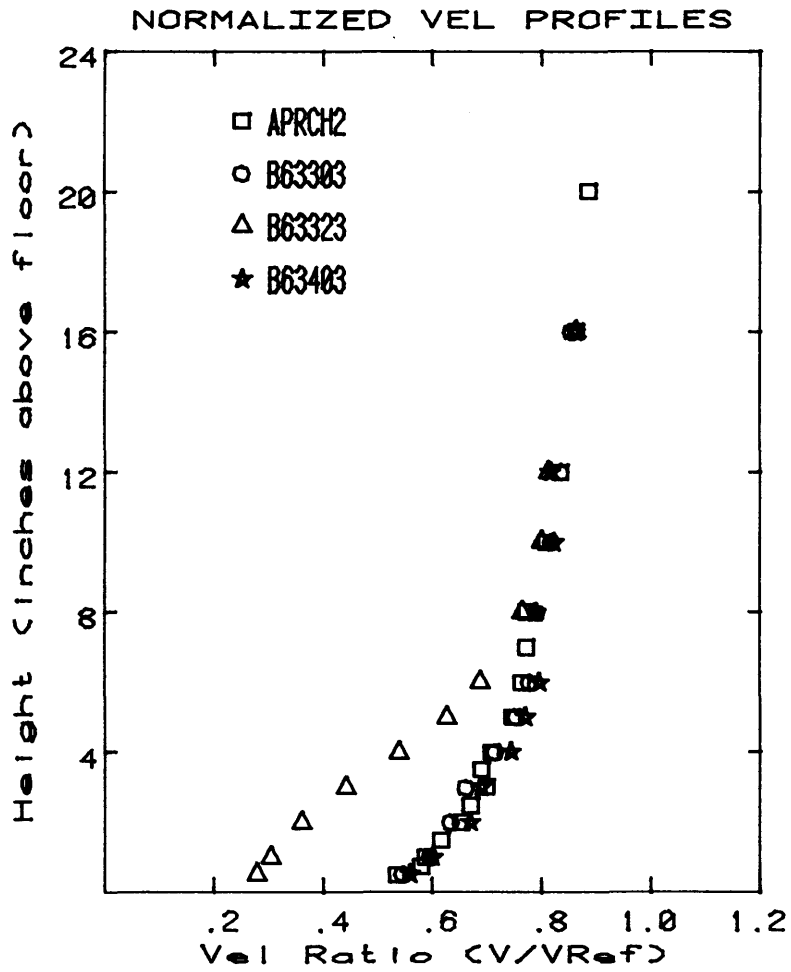
Graph # 55



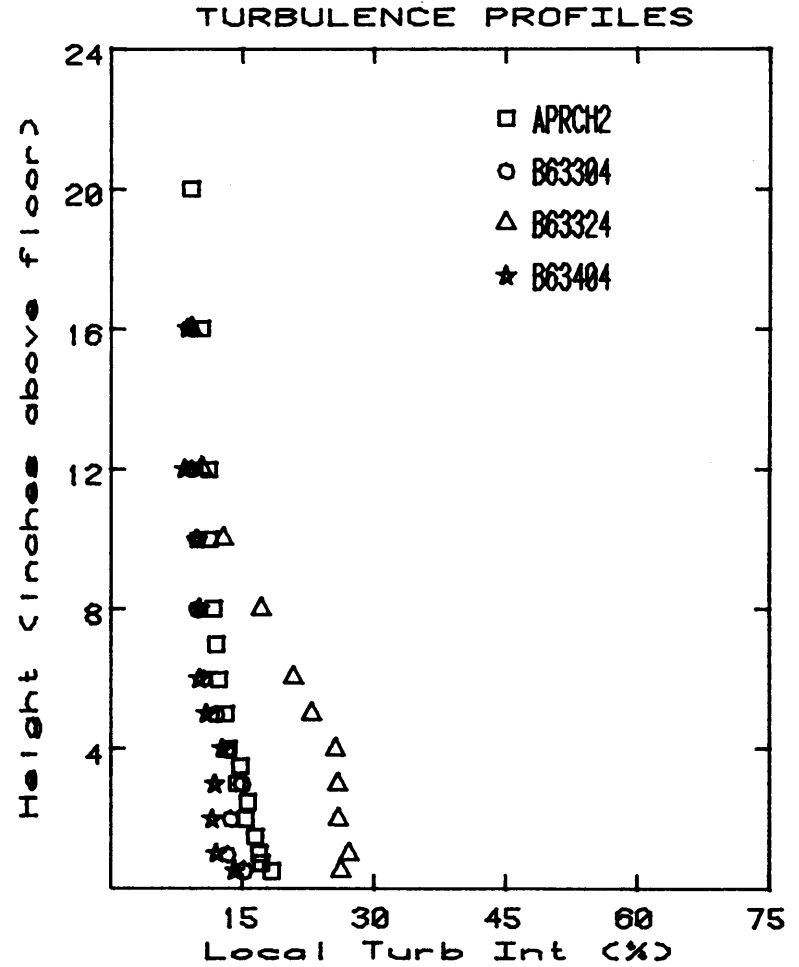
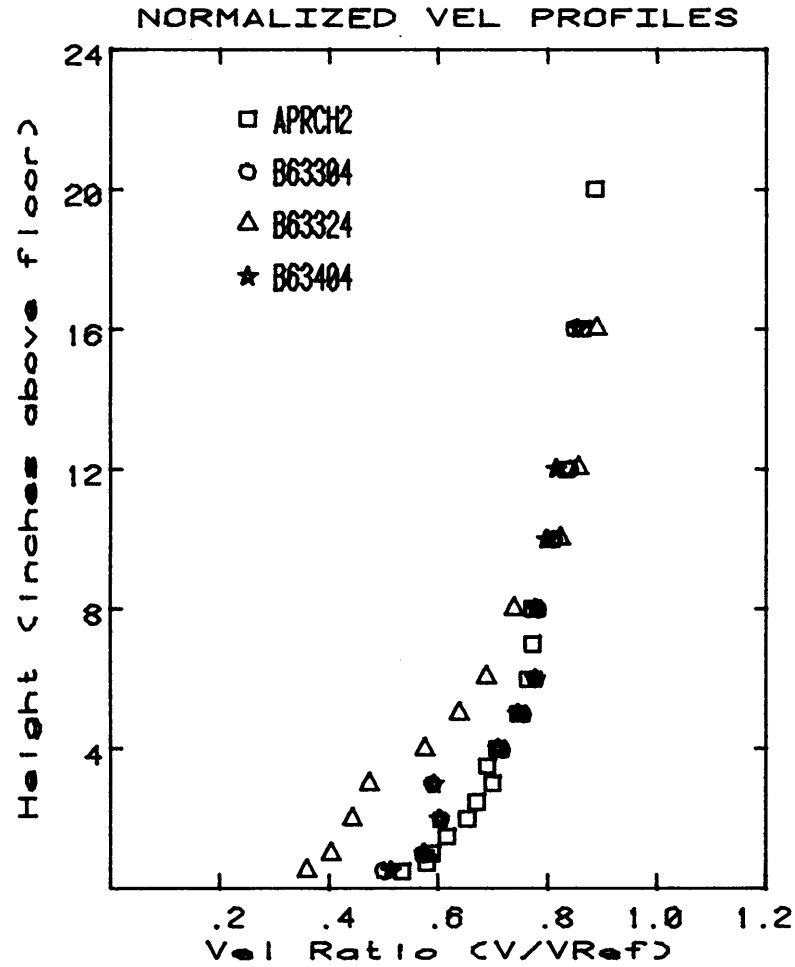
Graph # 56



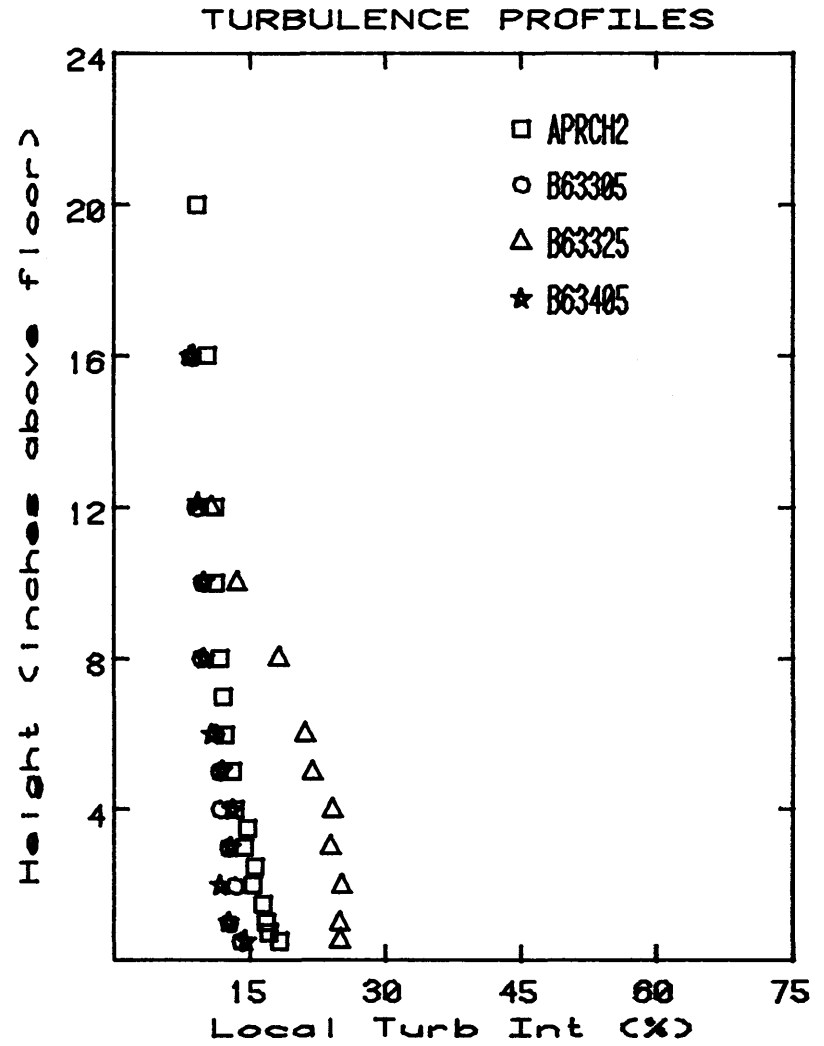
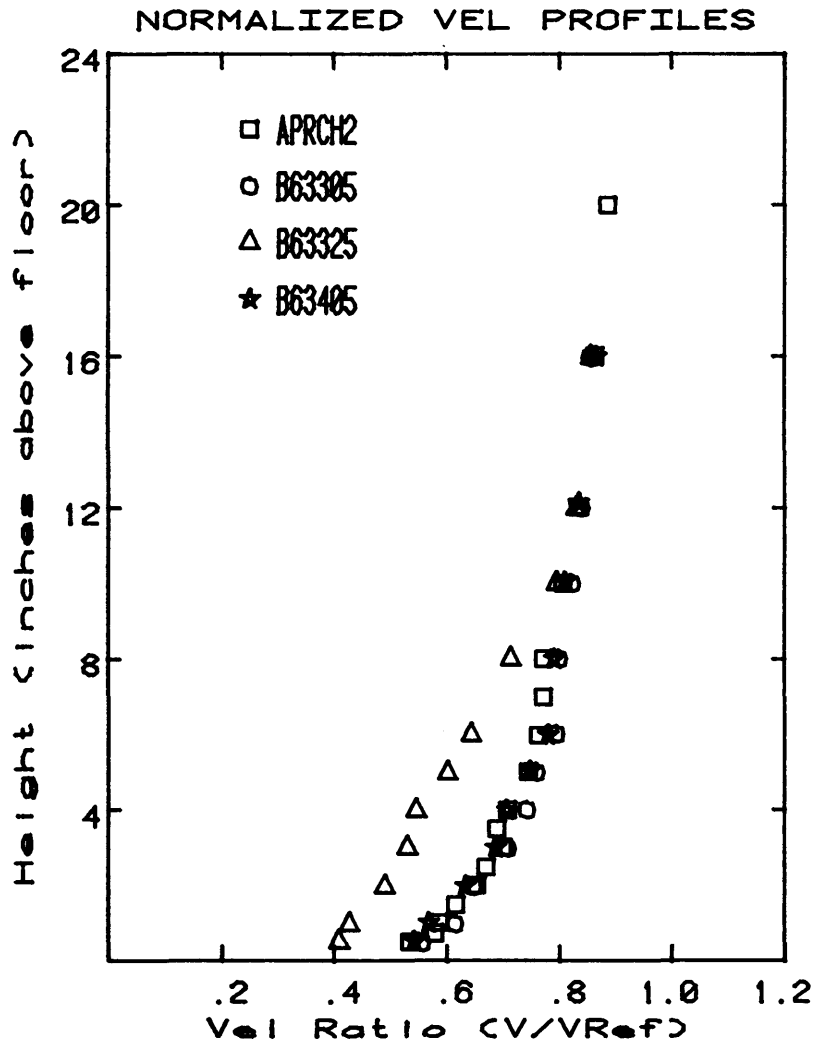
Graph # 57



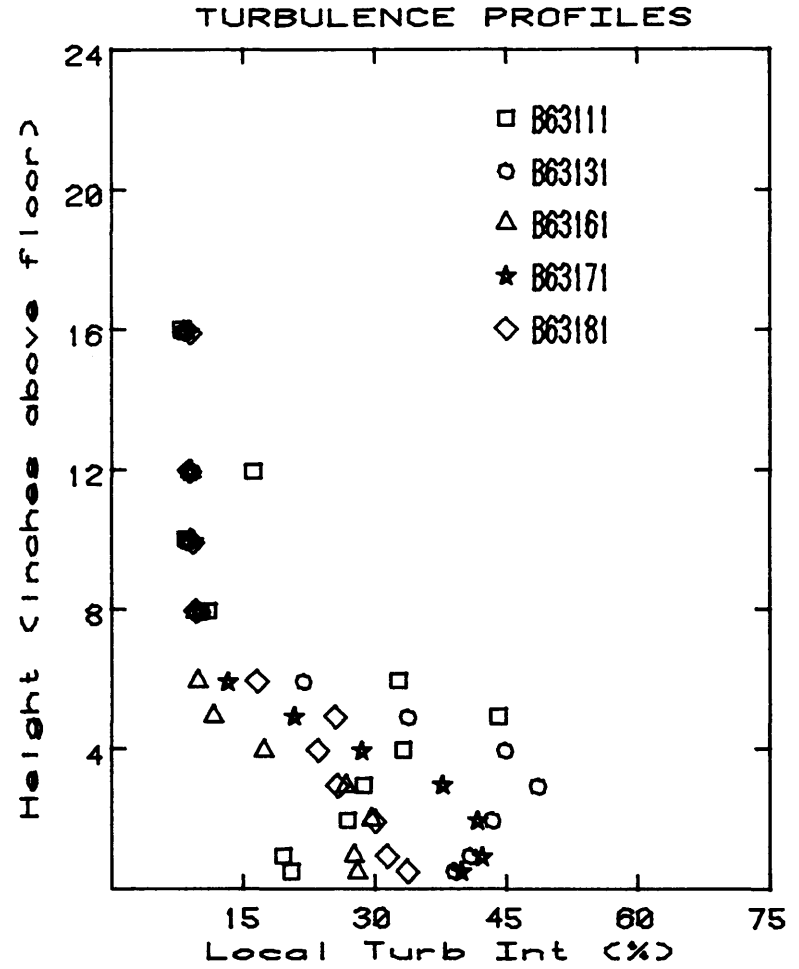
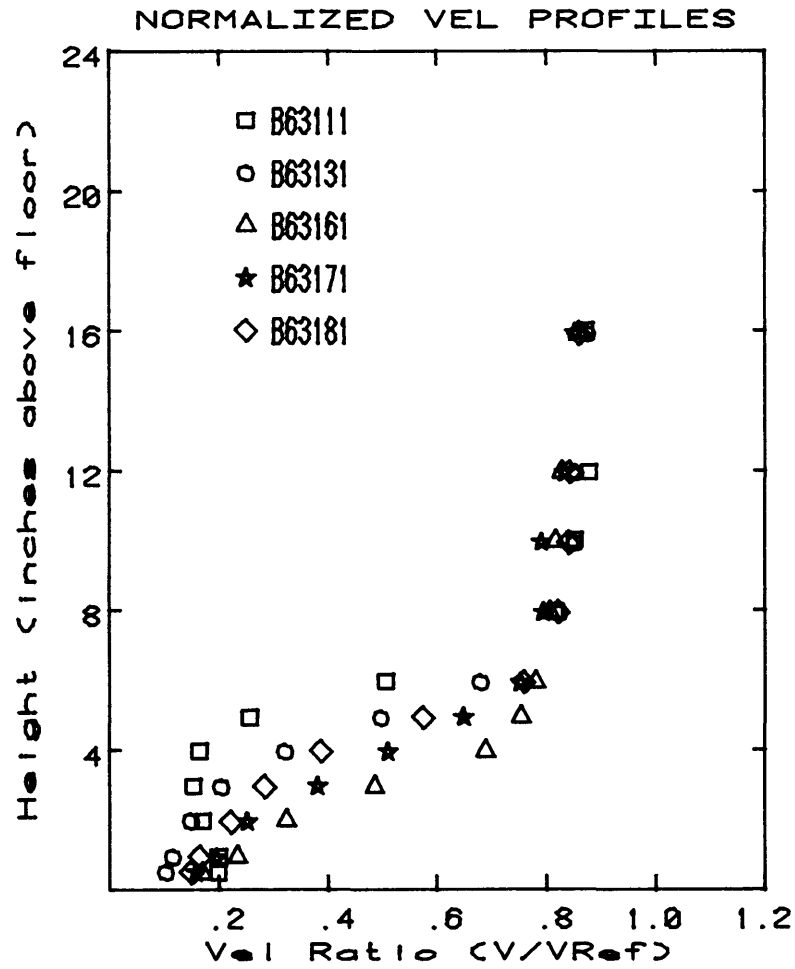
Graph # 58



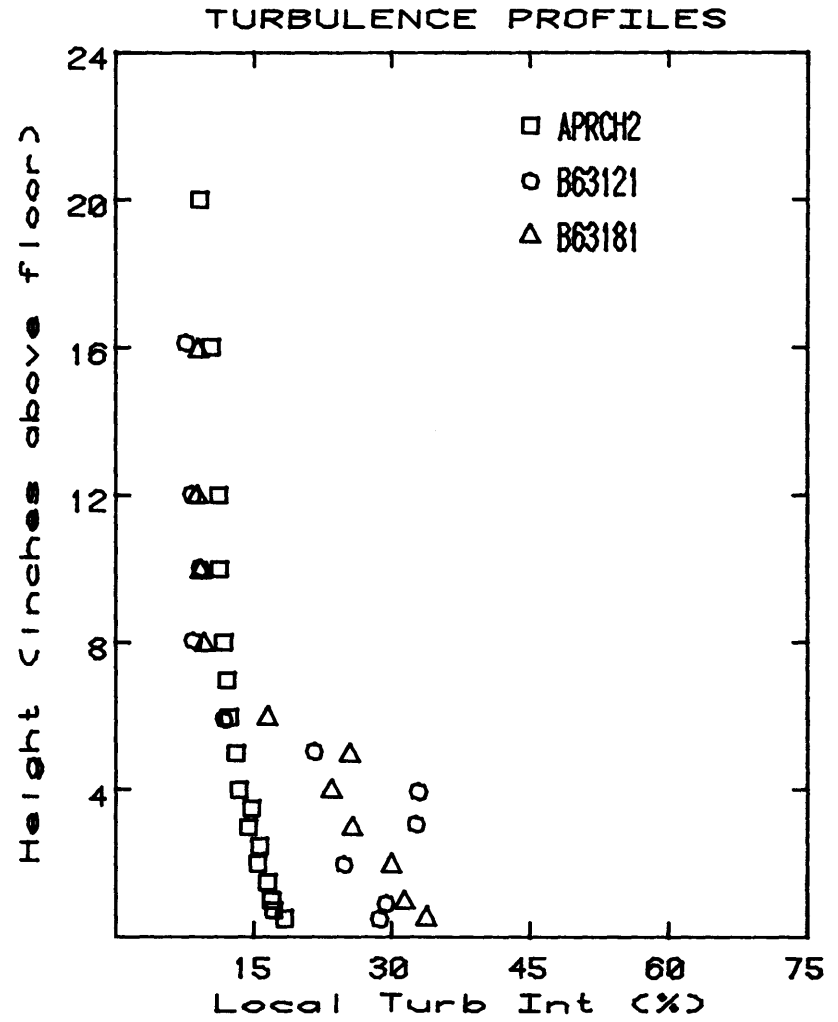
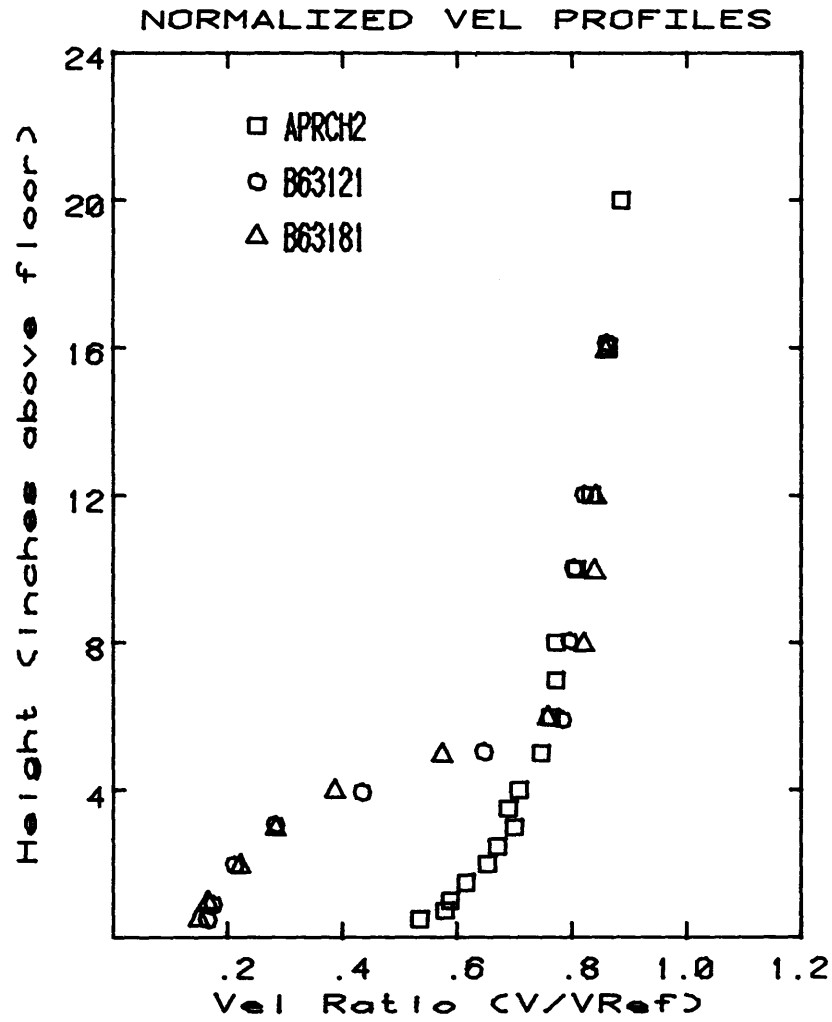
Graph # 59



Graph # 60

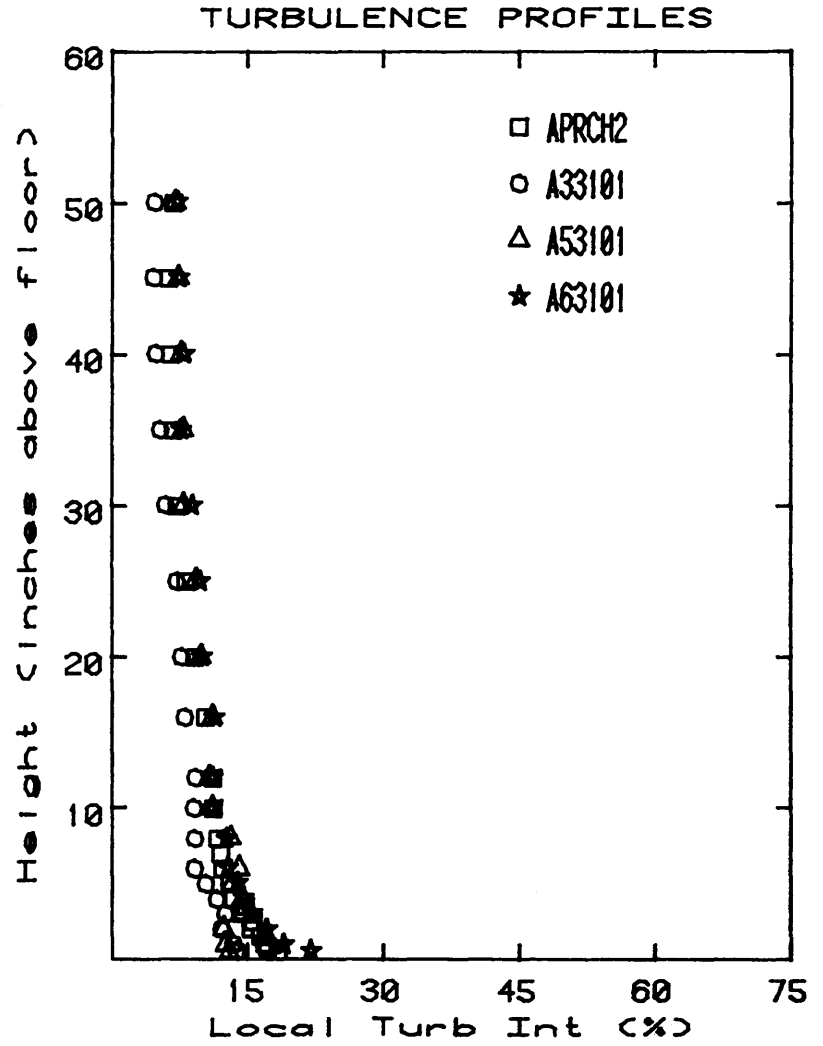
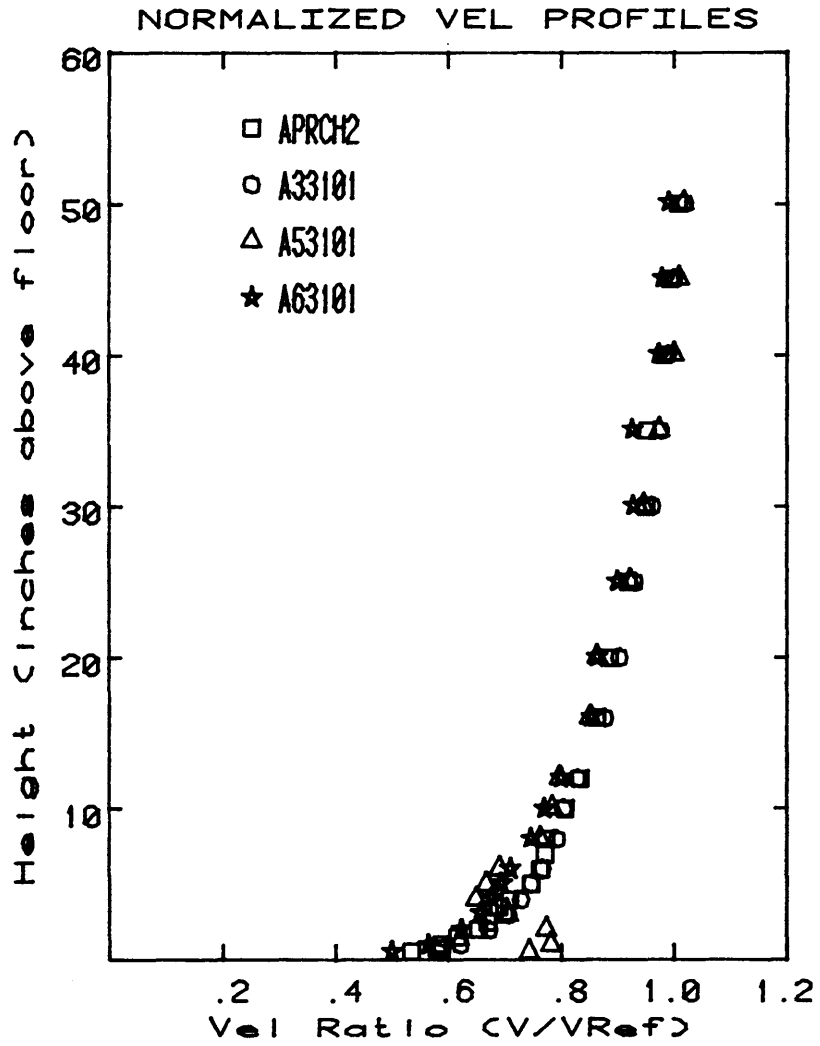


Graph # 61

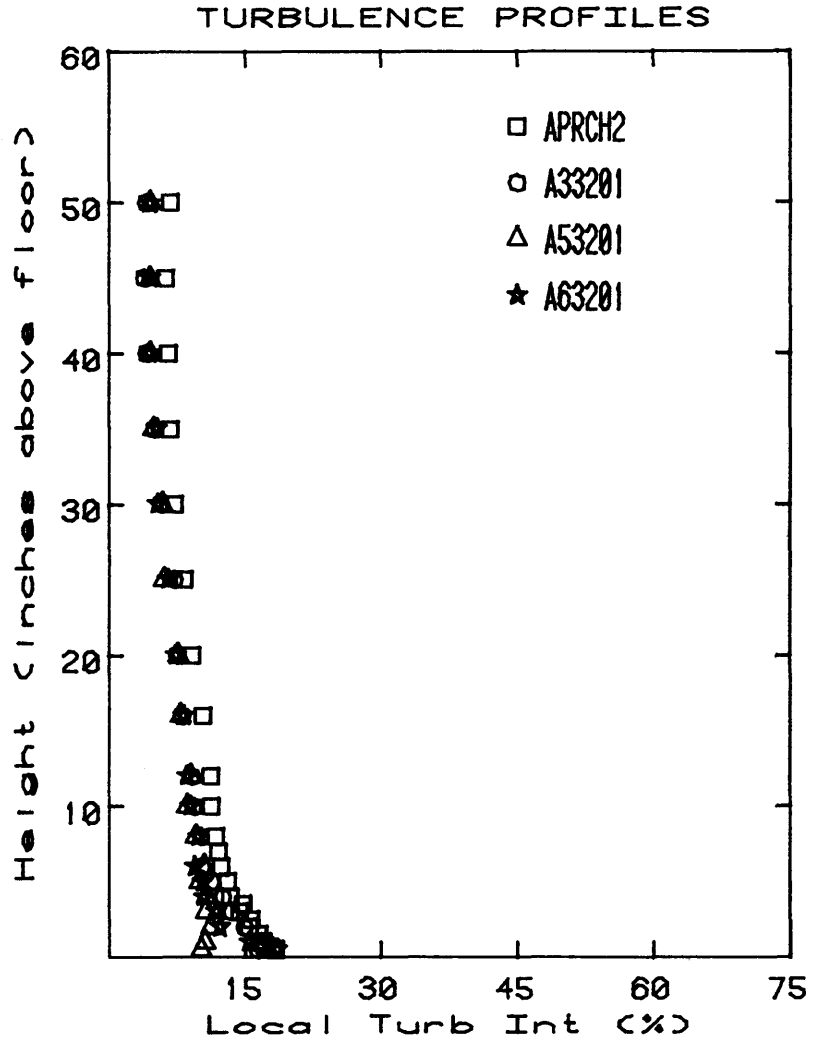
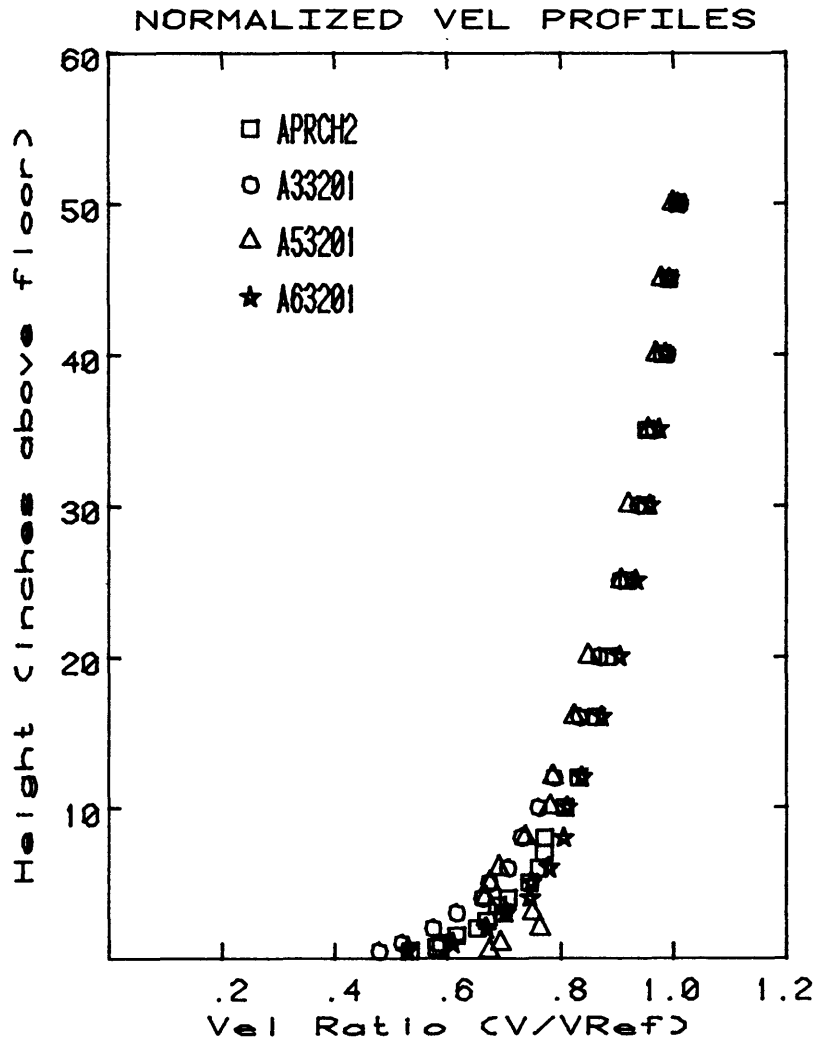




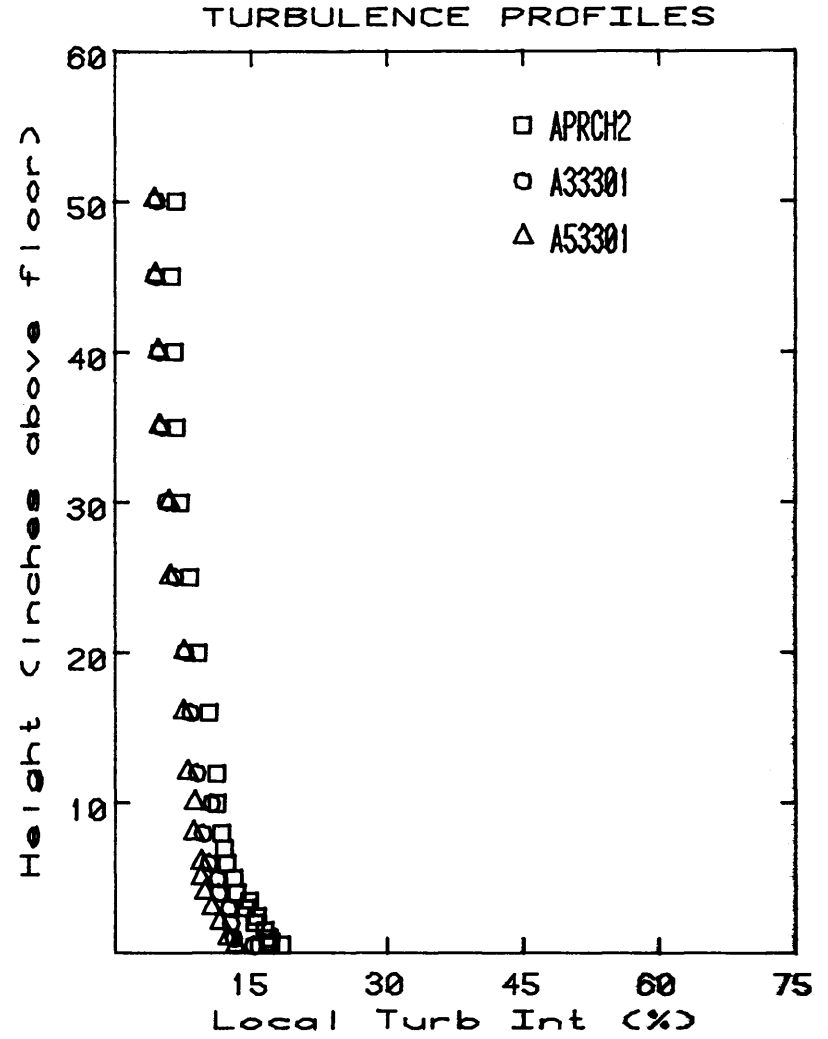
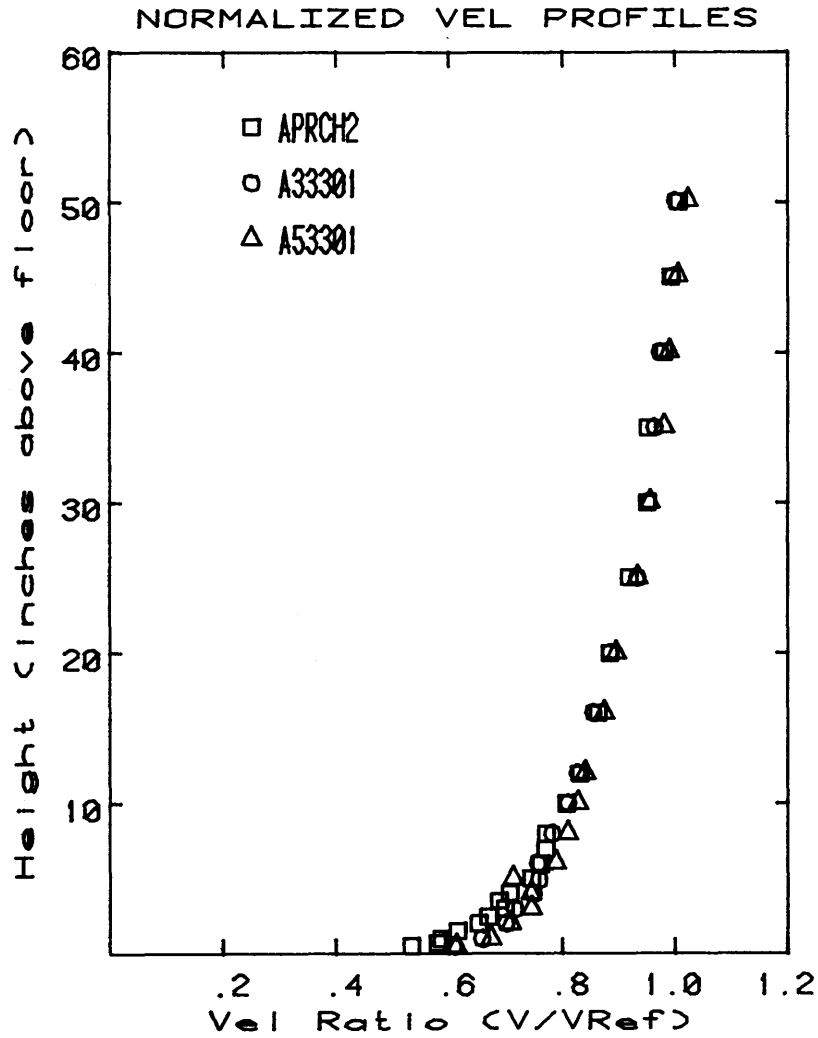
Graph # 62



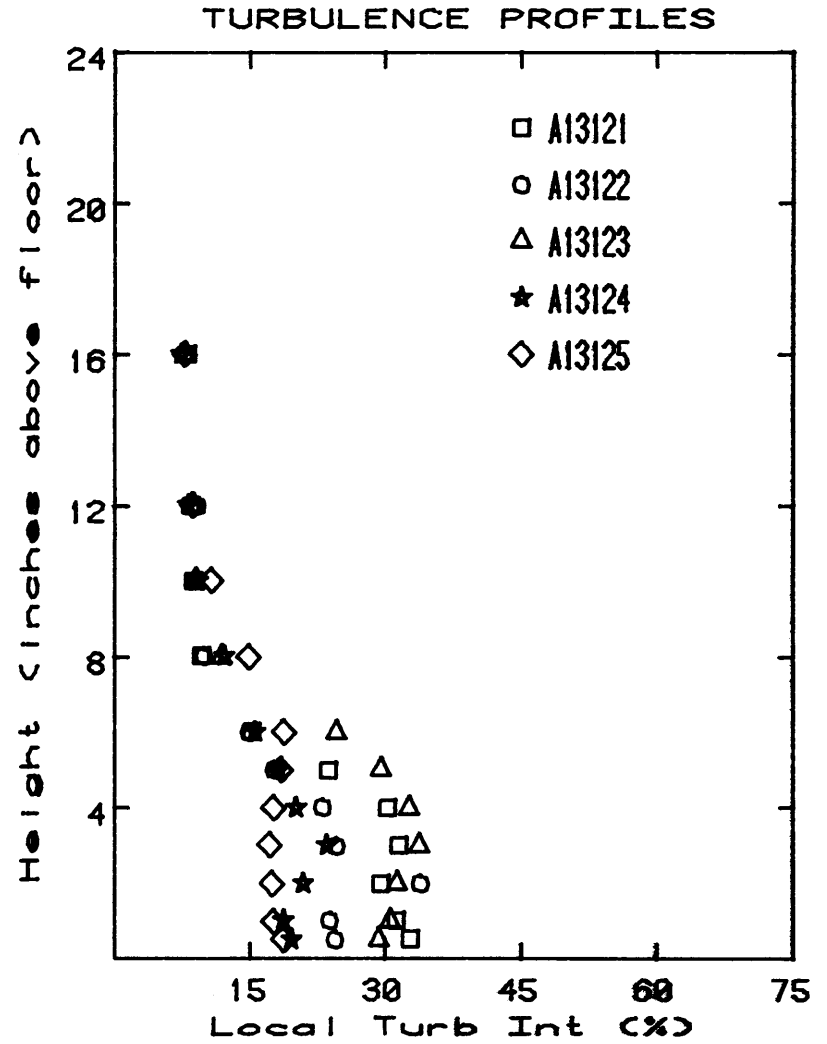
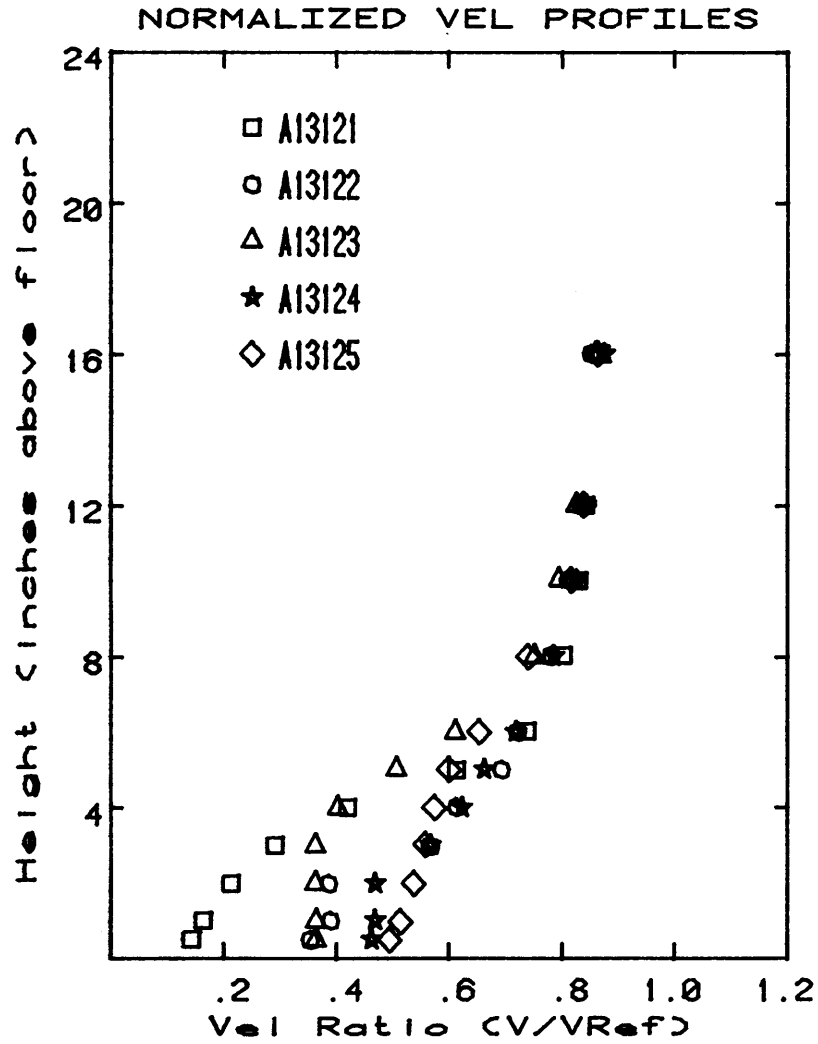
Graph # 63



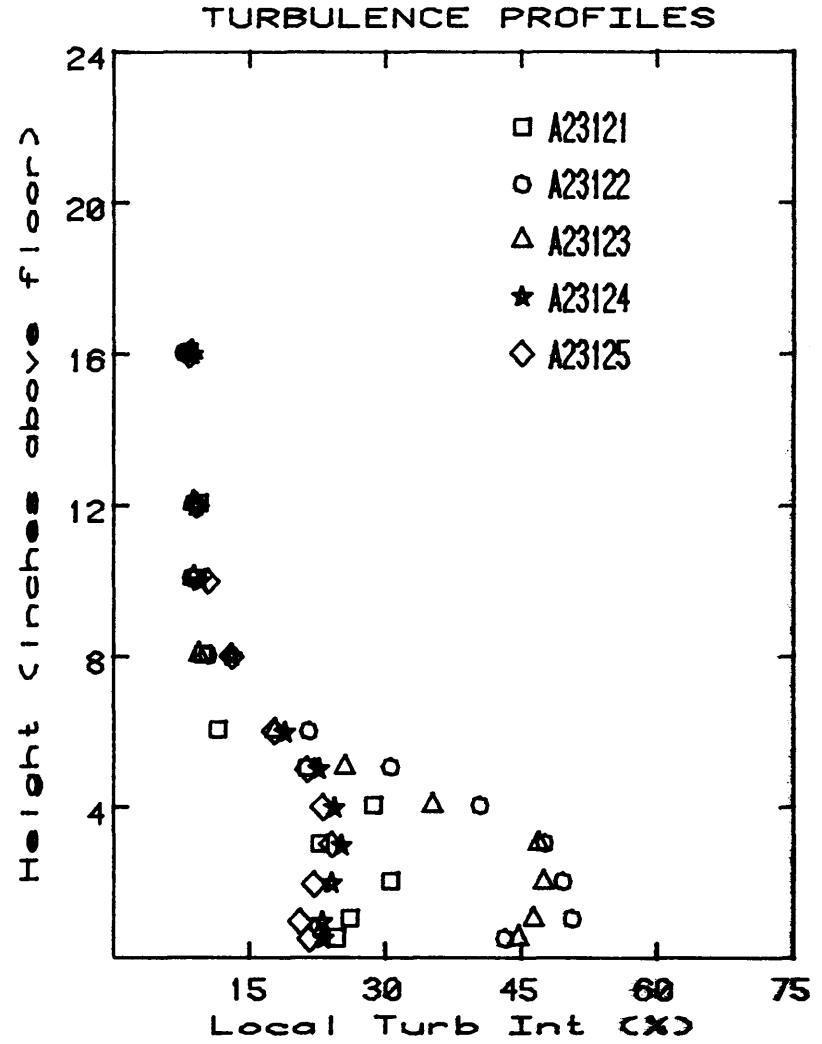
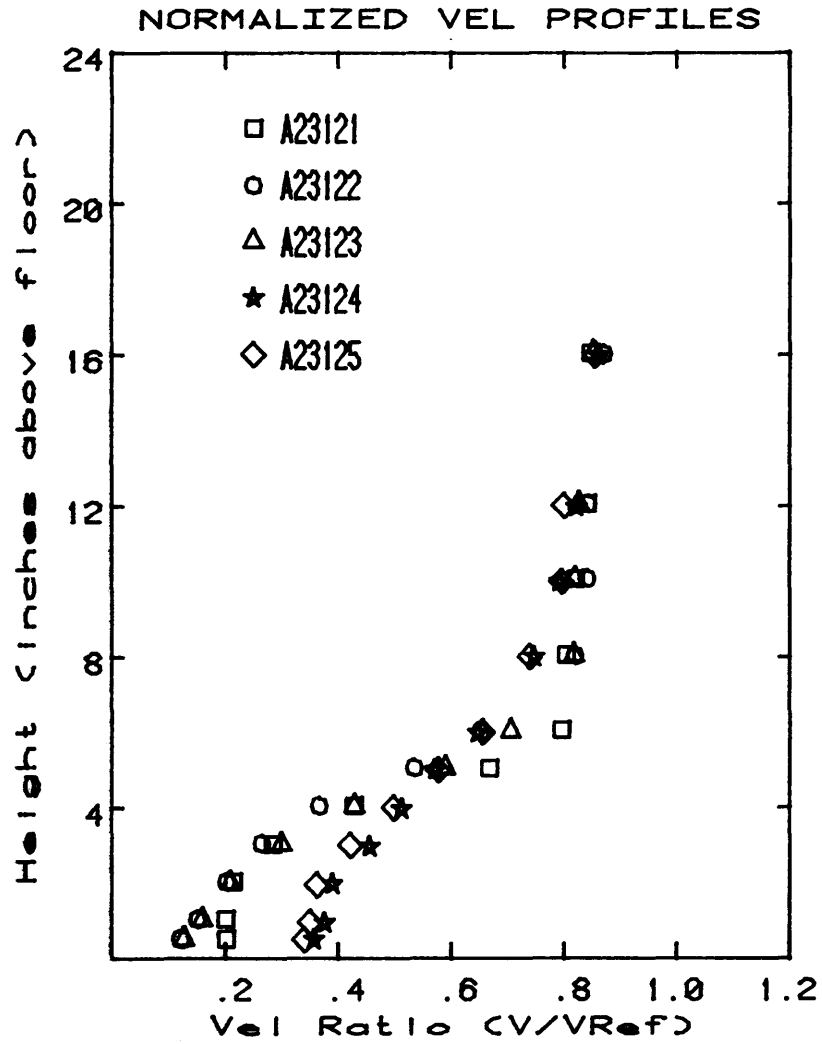
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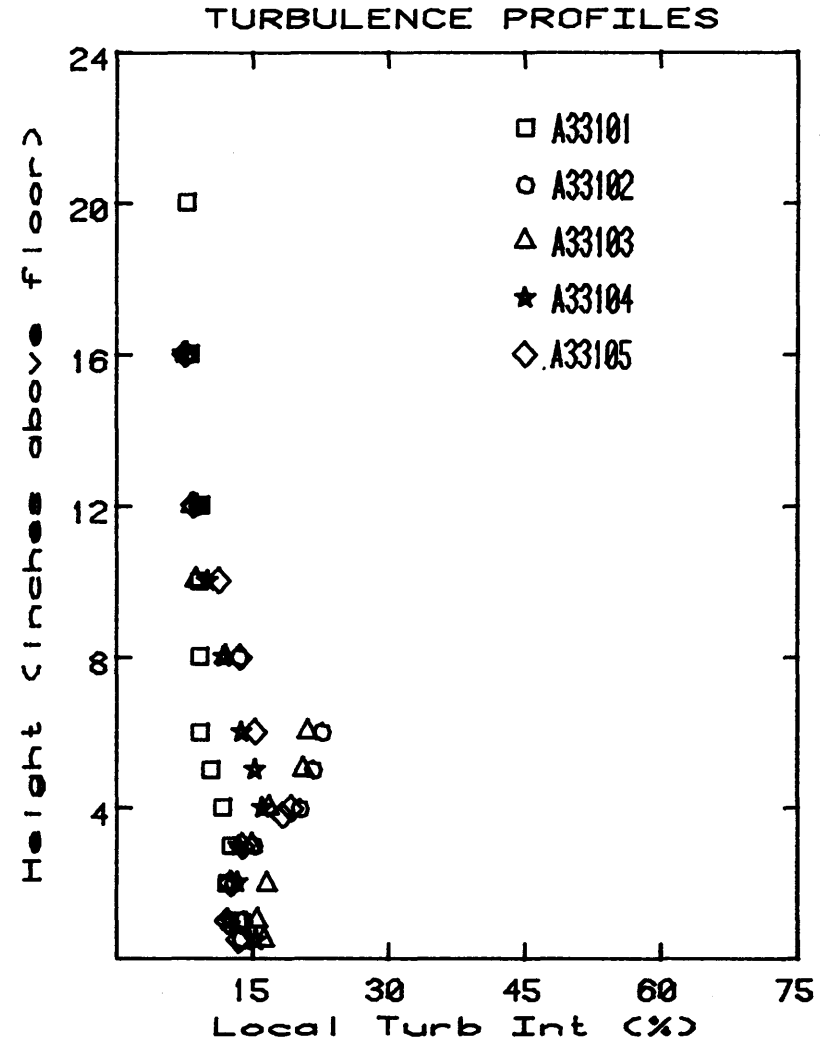
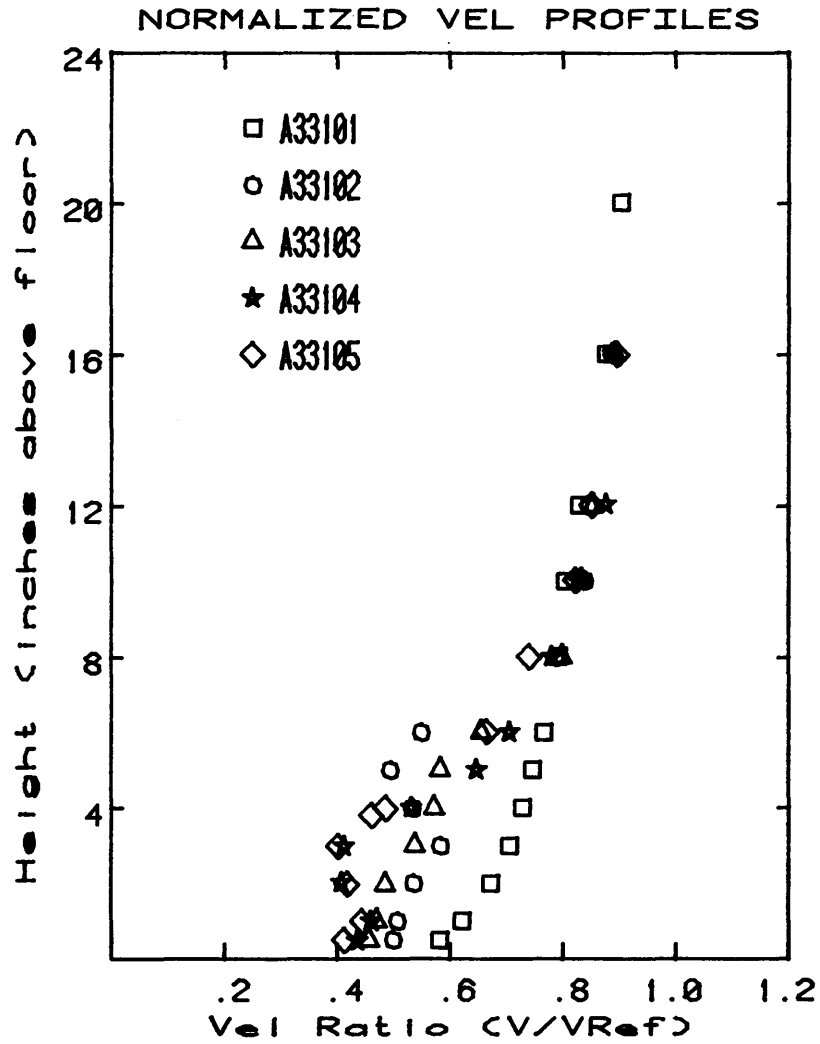
Graph # 65



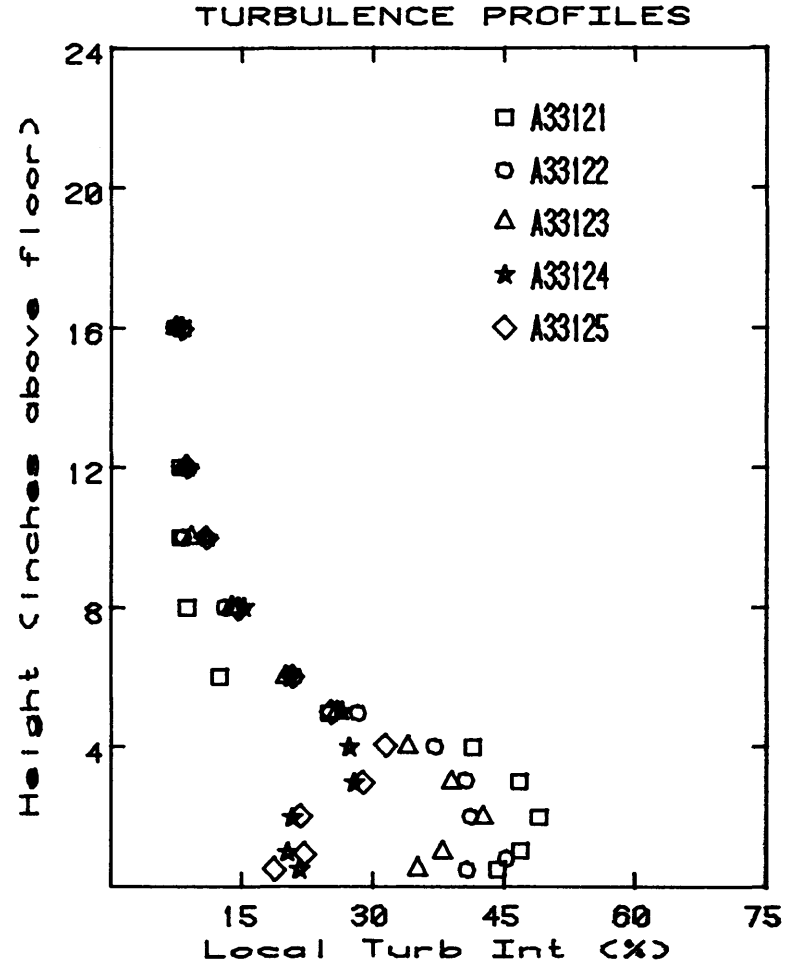
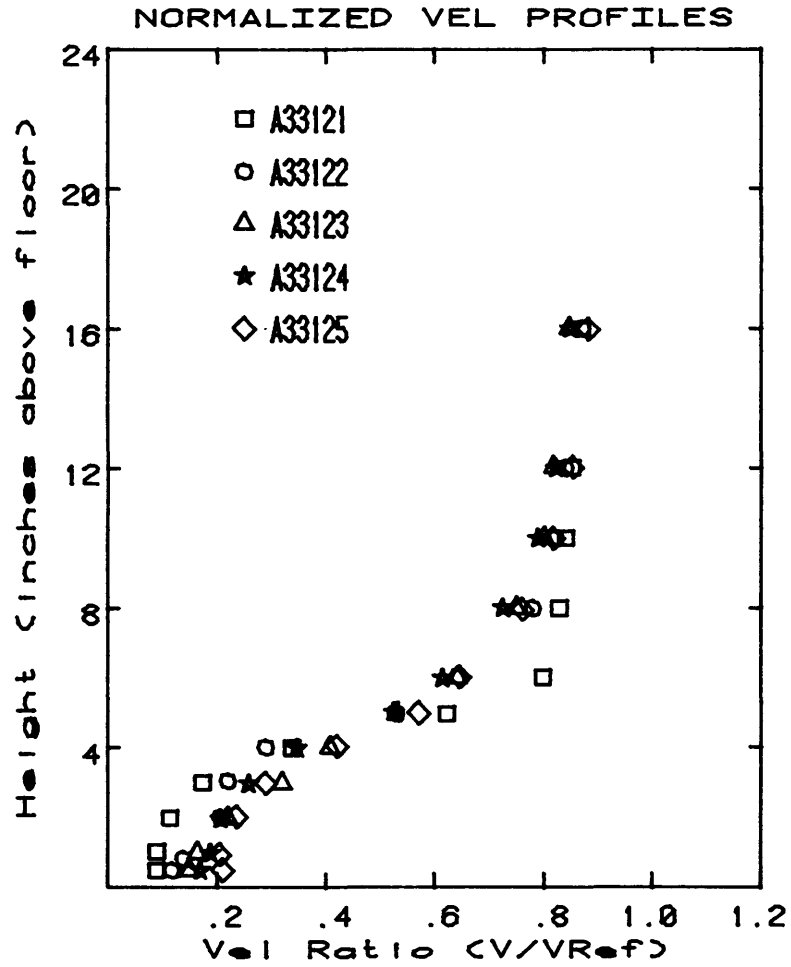
Graph # 66



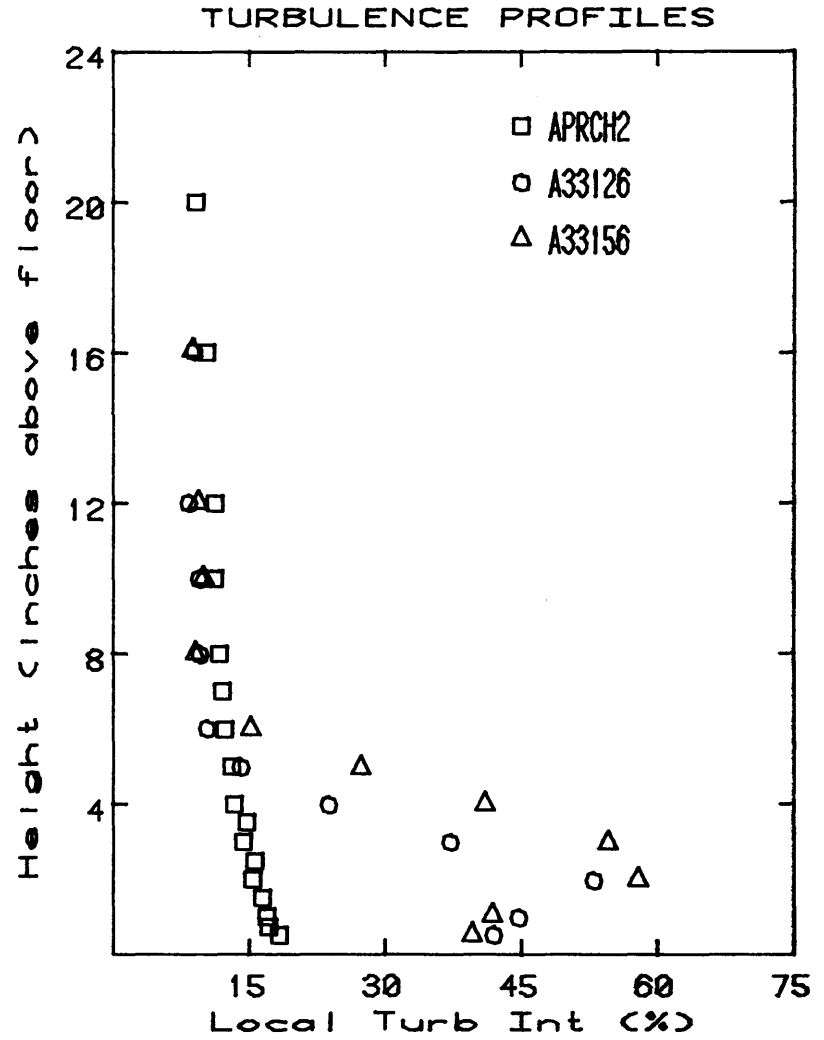
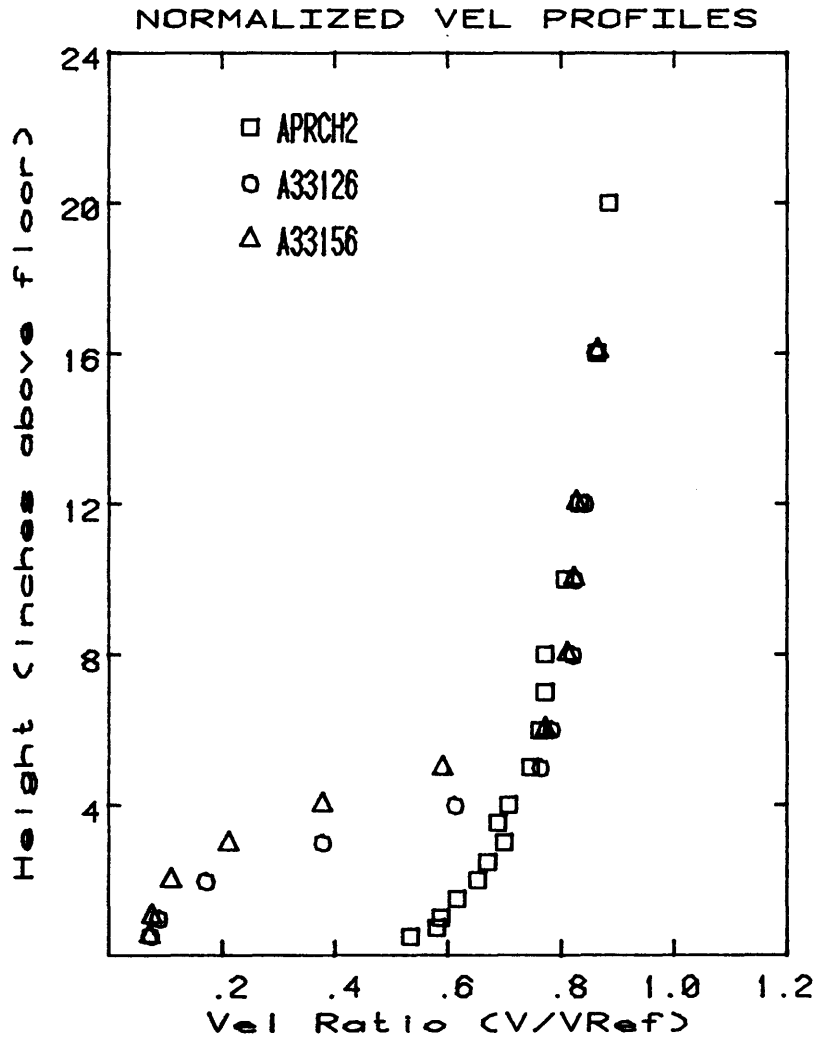
Graph # 67



Graph # 68

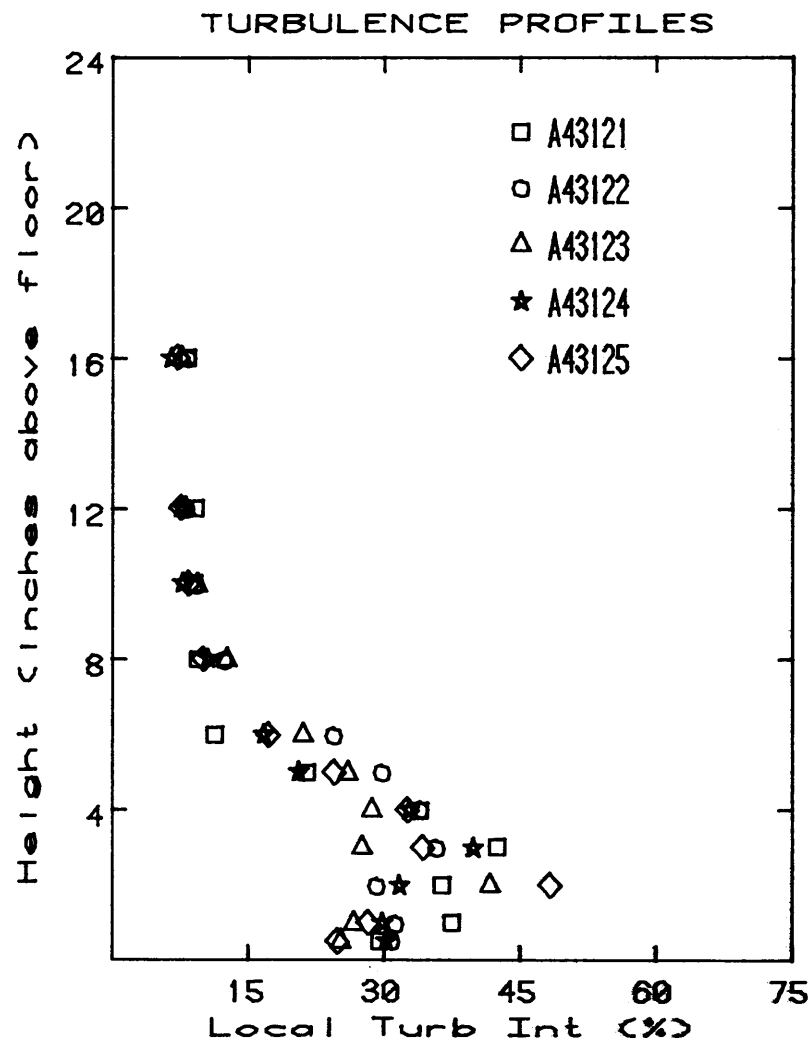
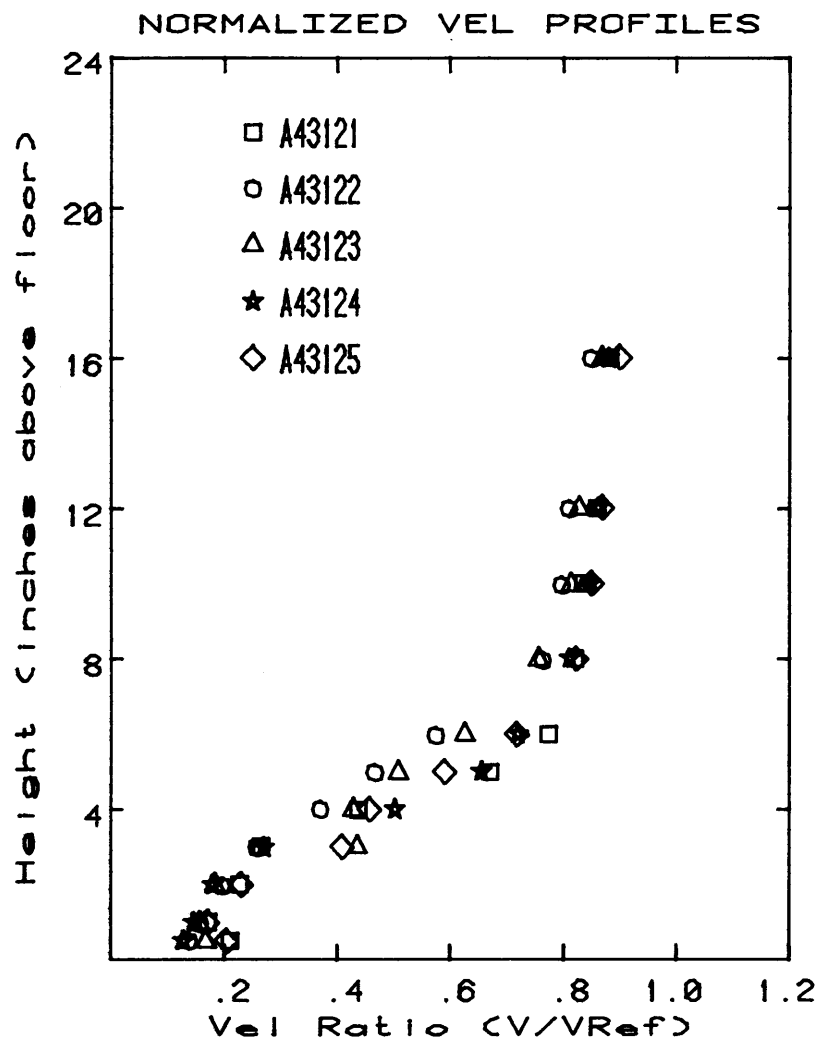


Graph # 69

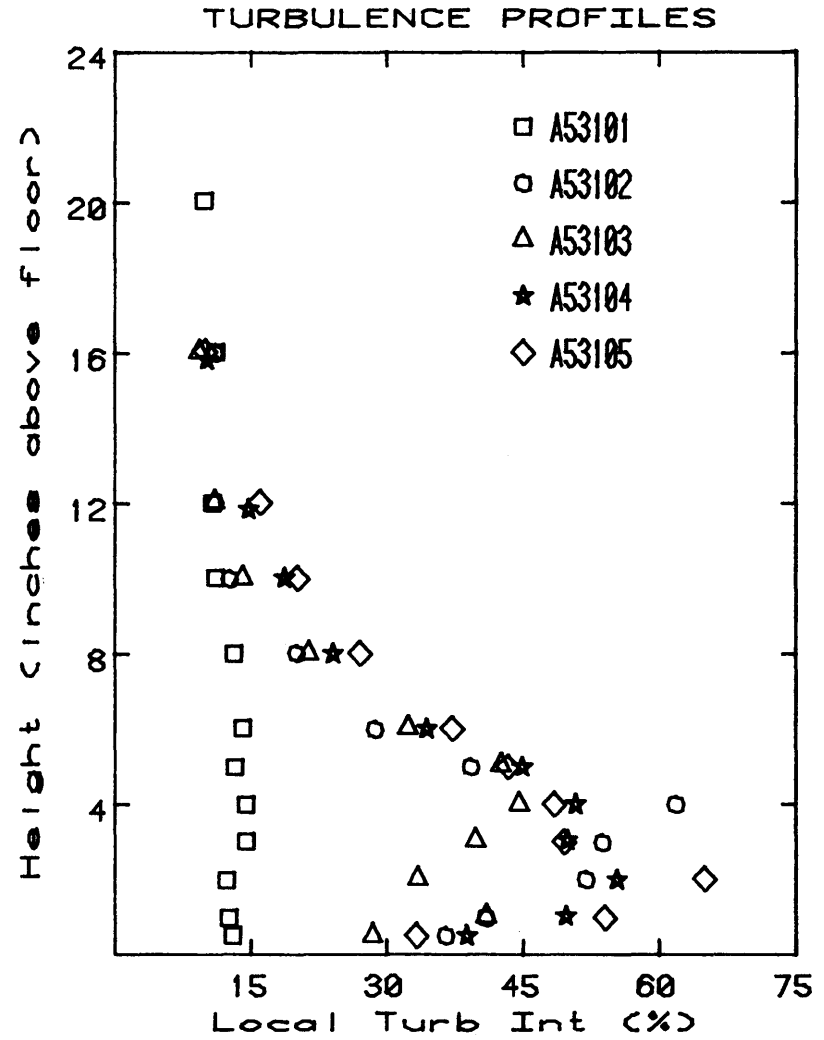
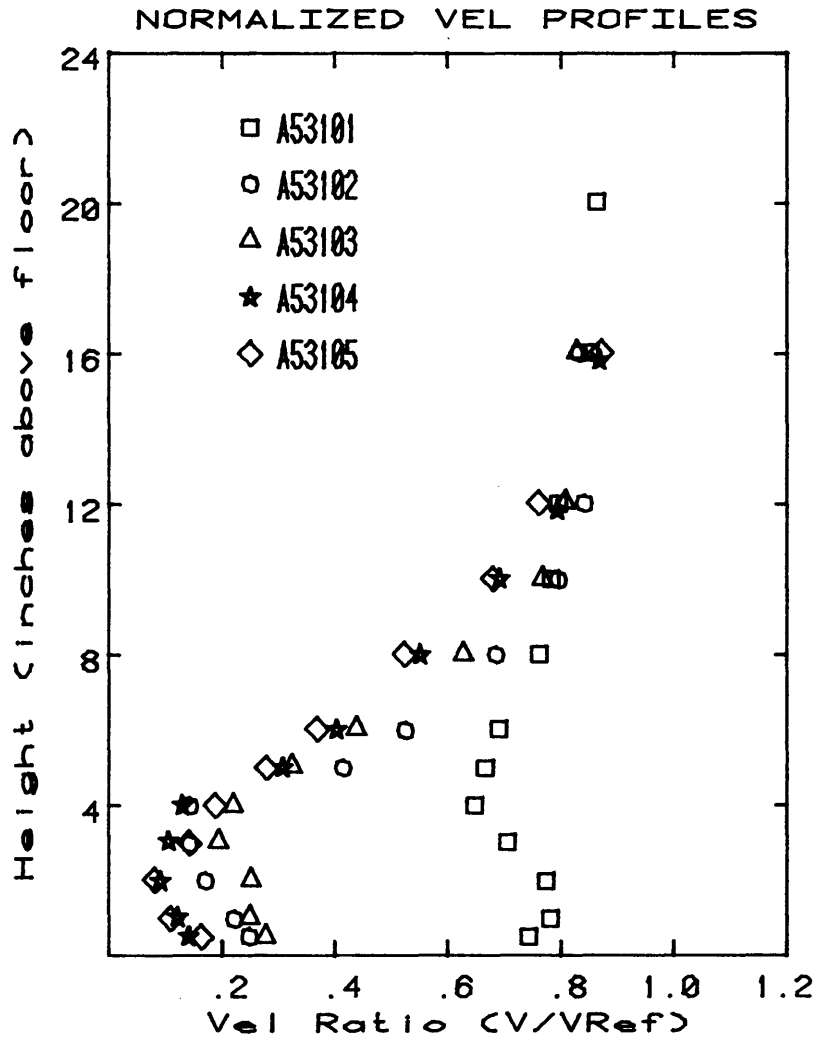




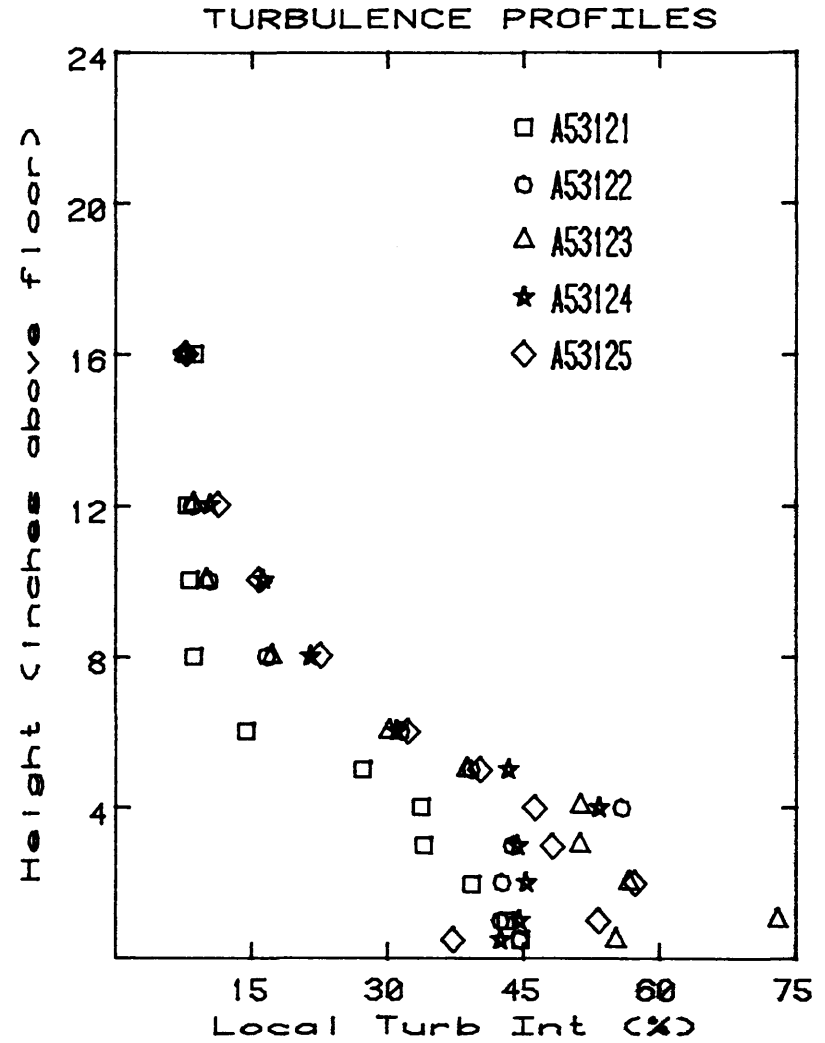
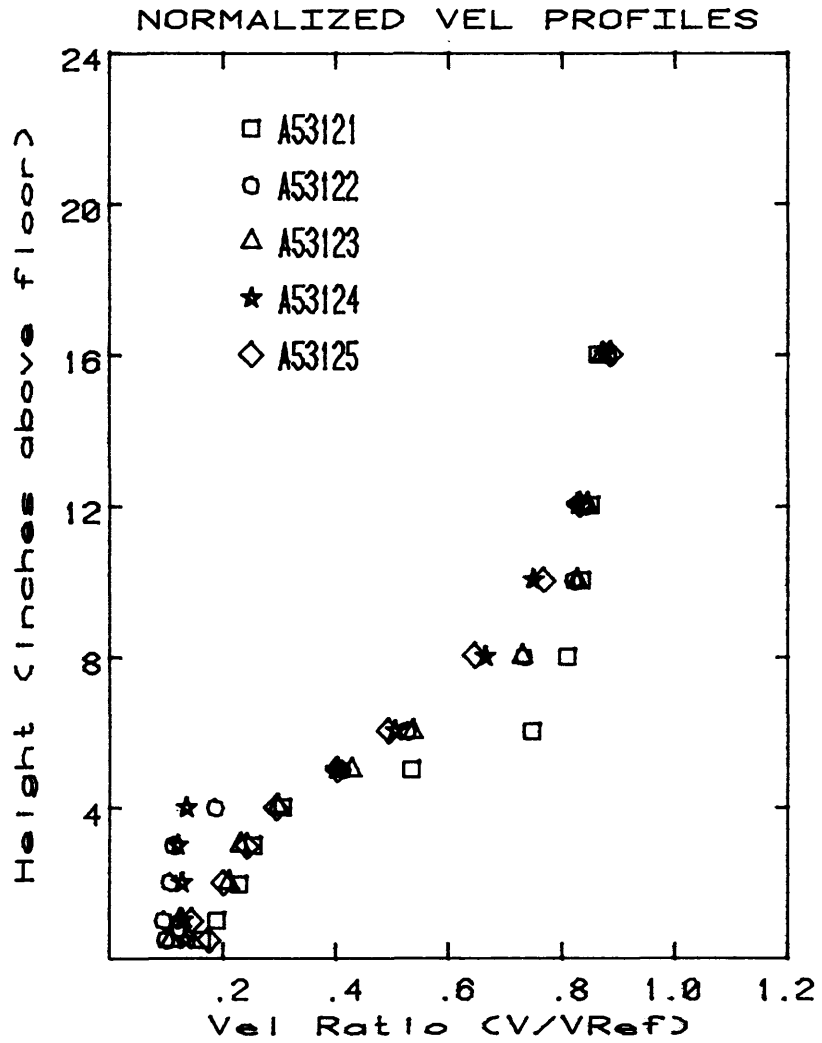
Graph # 70



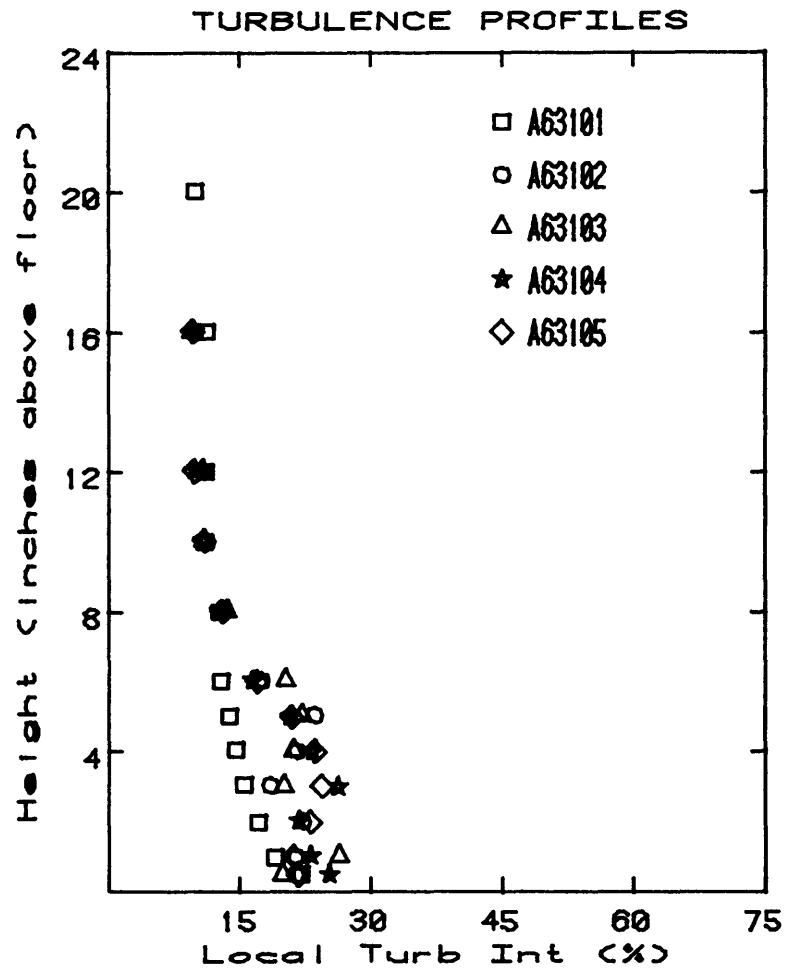
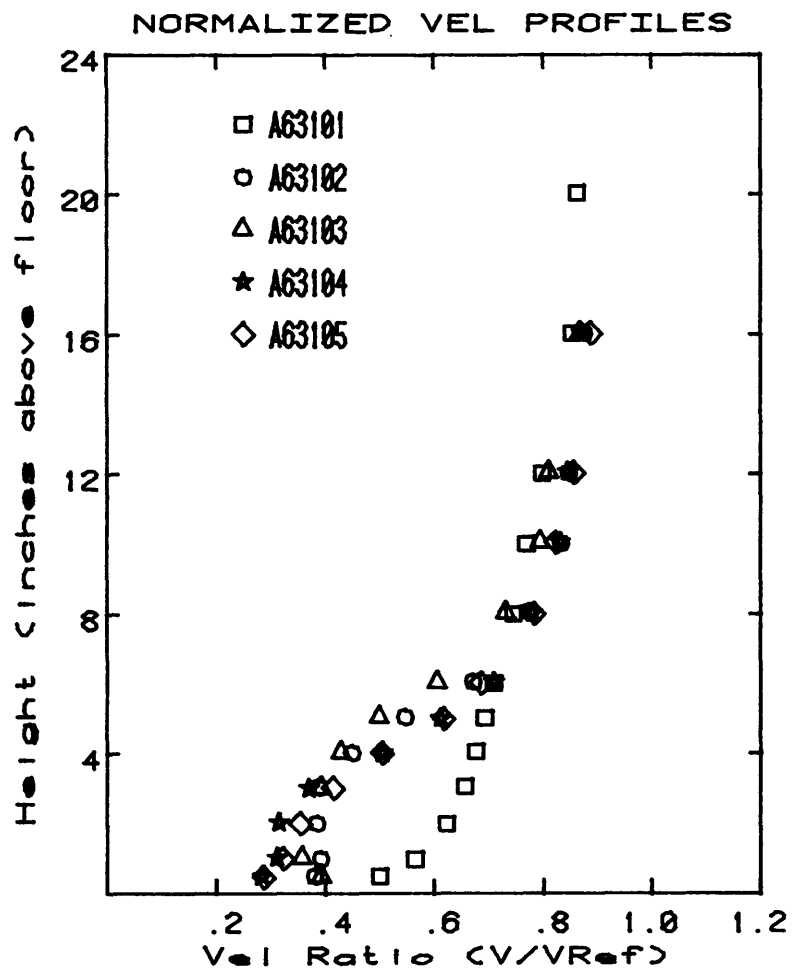
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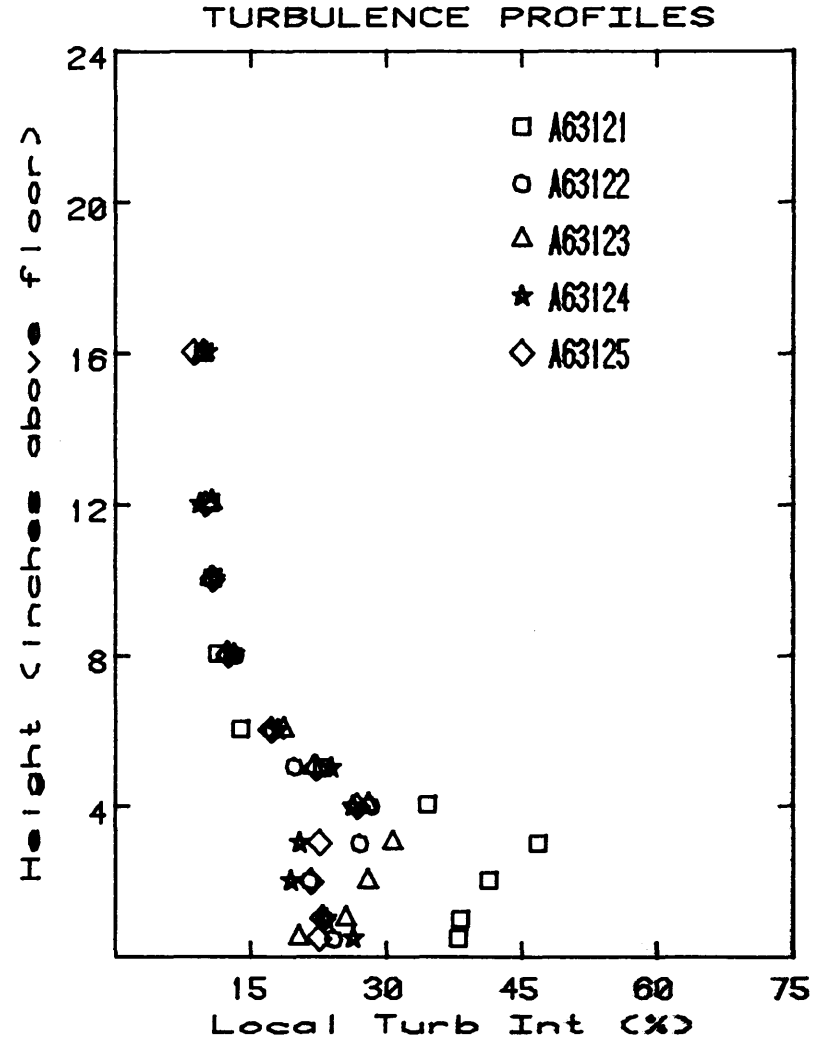
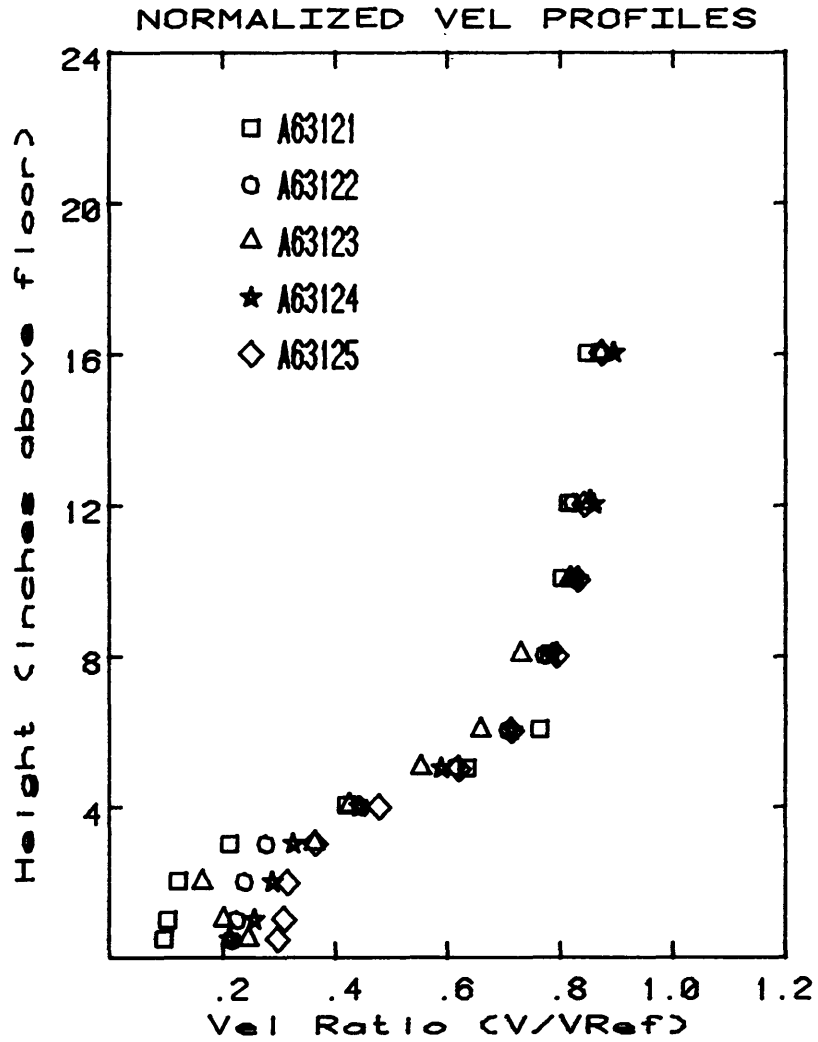
Graph # 72



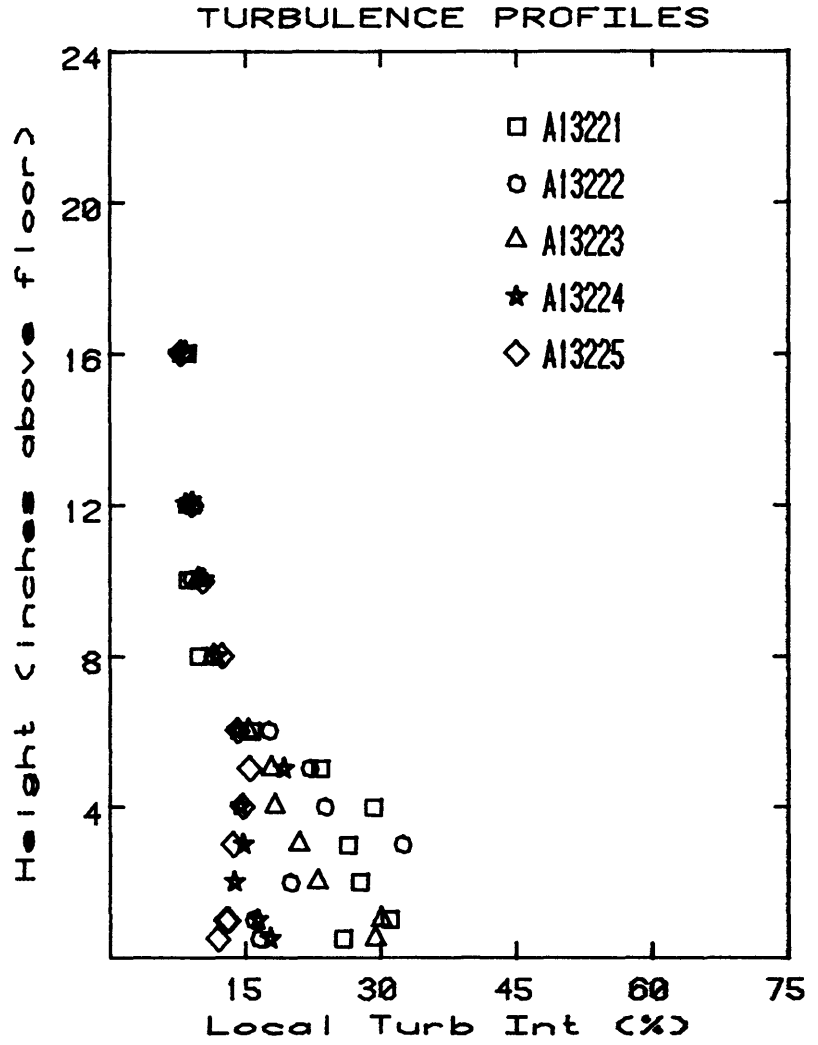
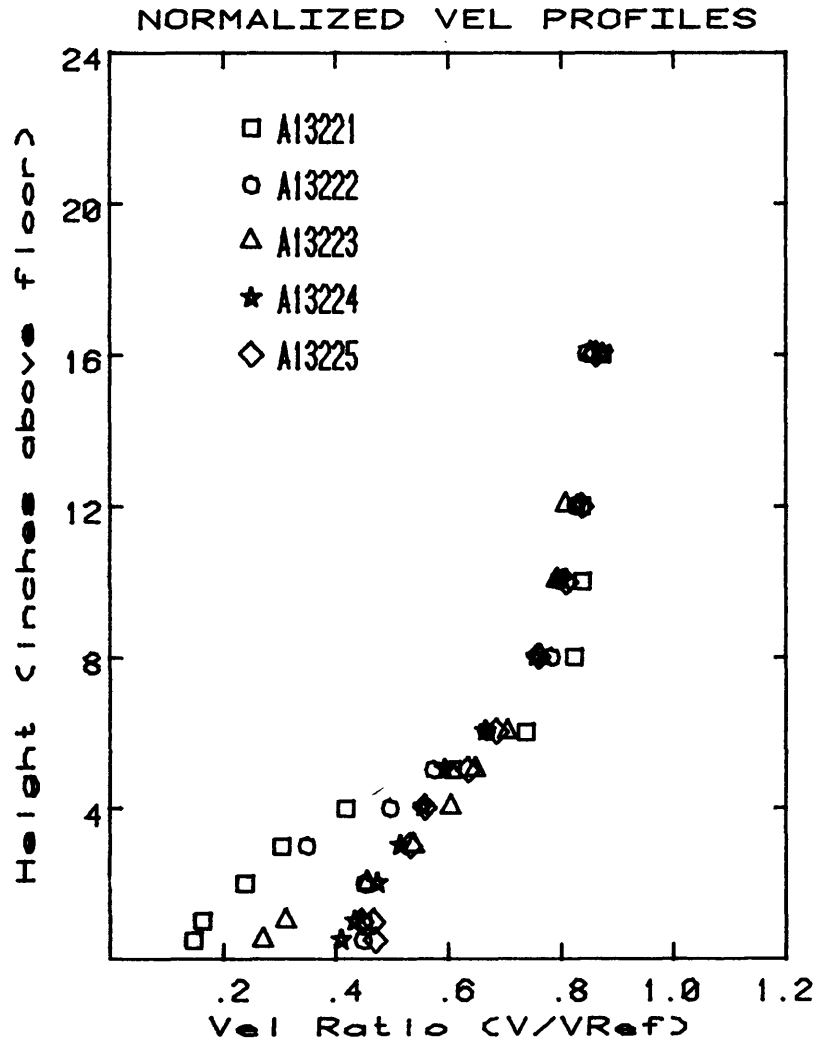
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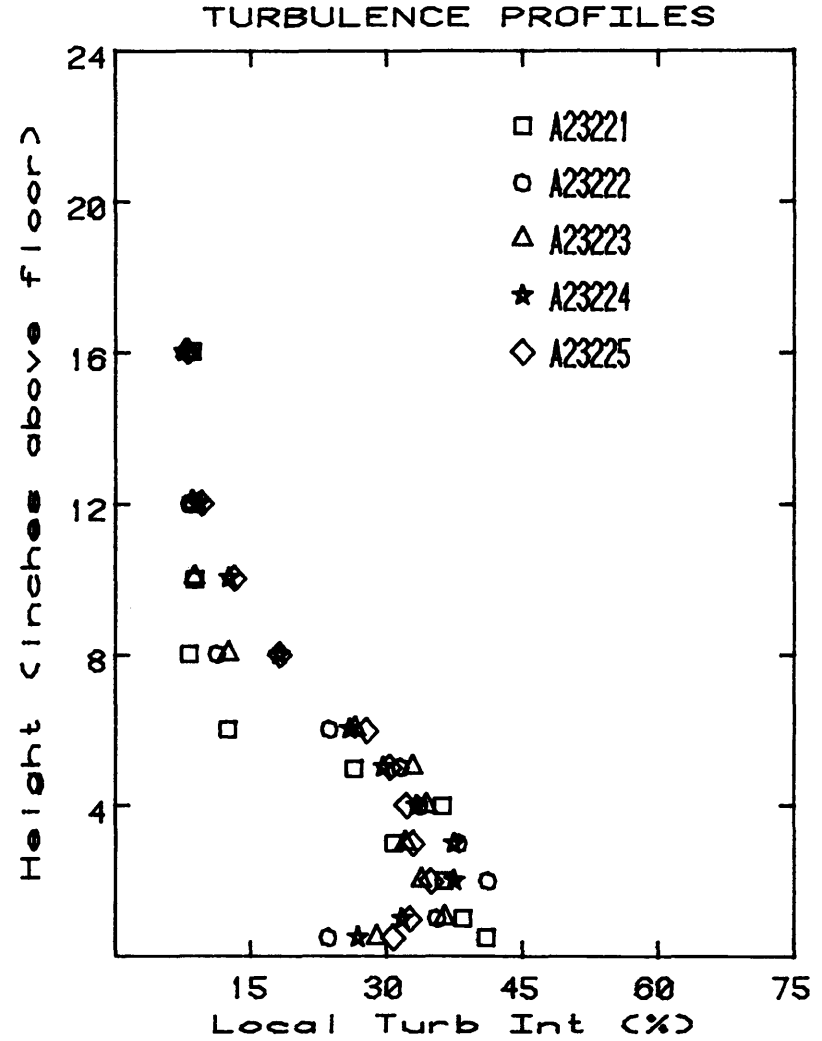
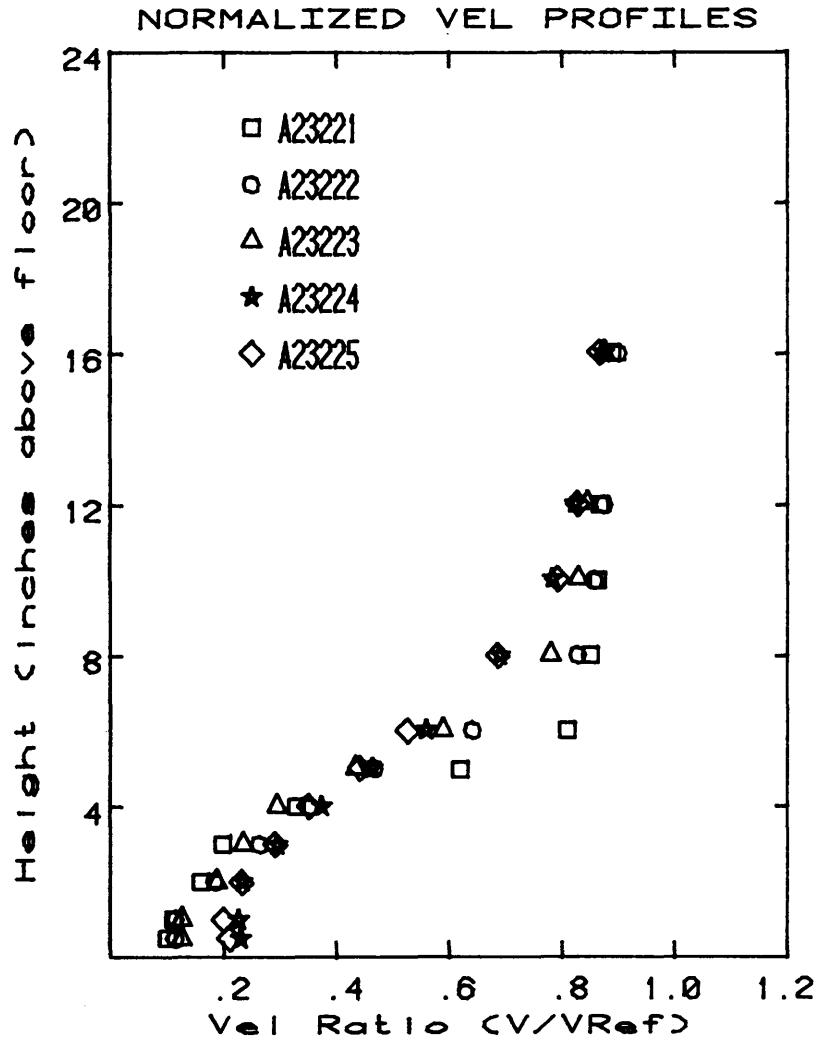
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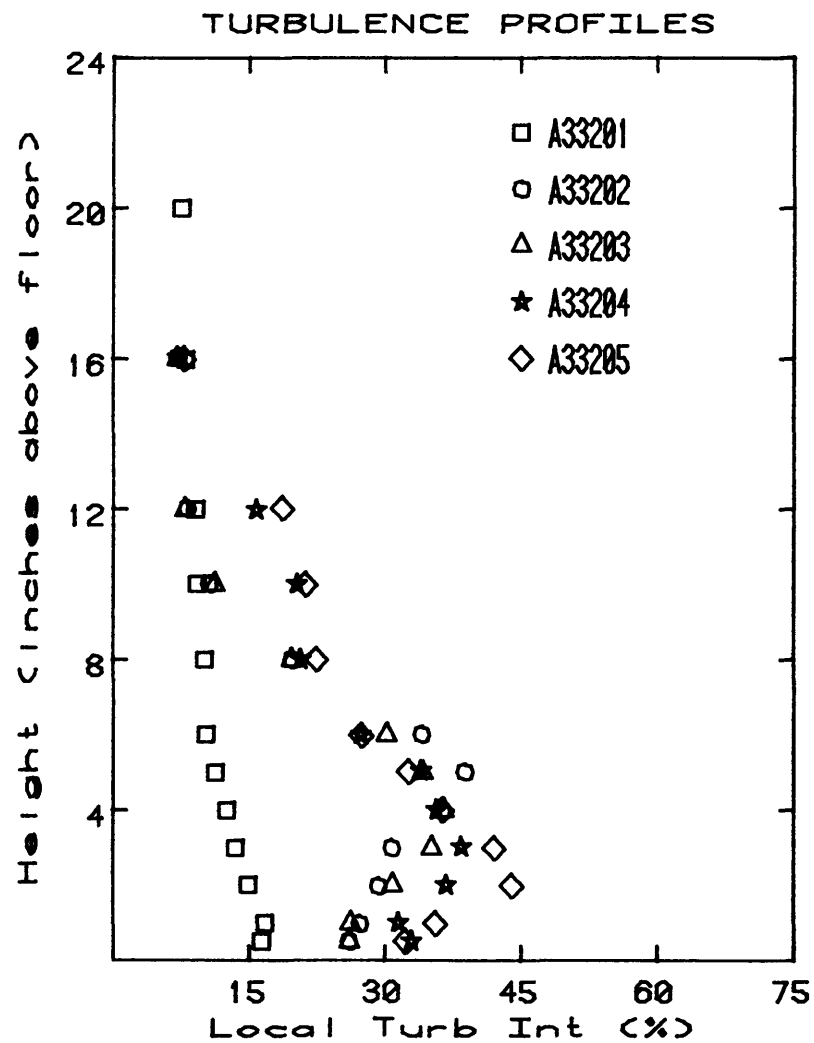
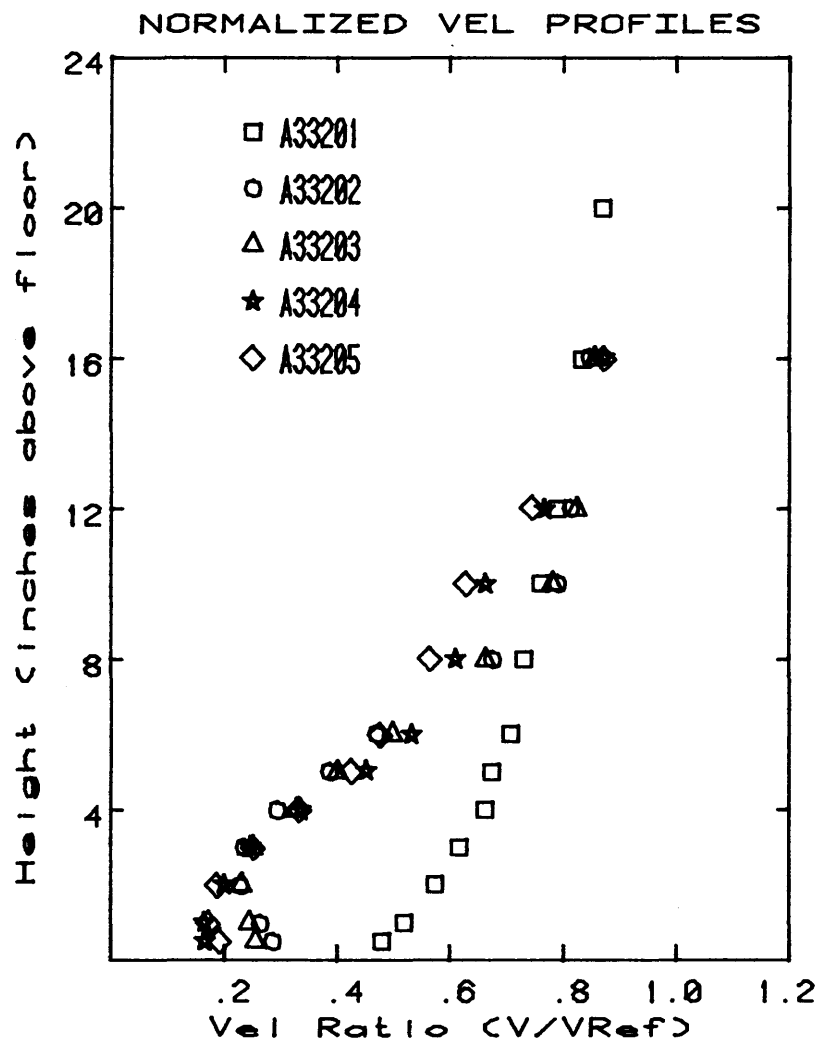
Graph # 75



Graph # 76

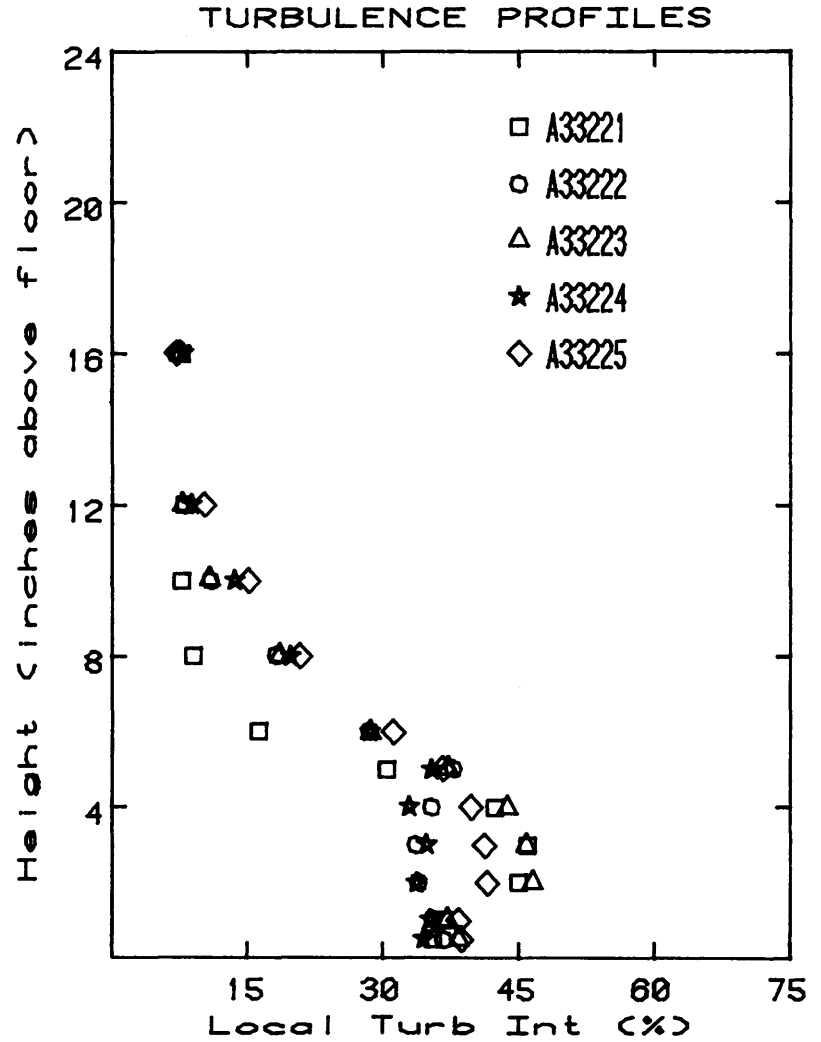
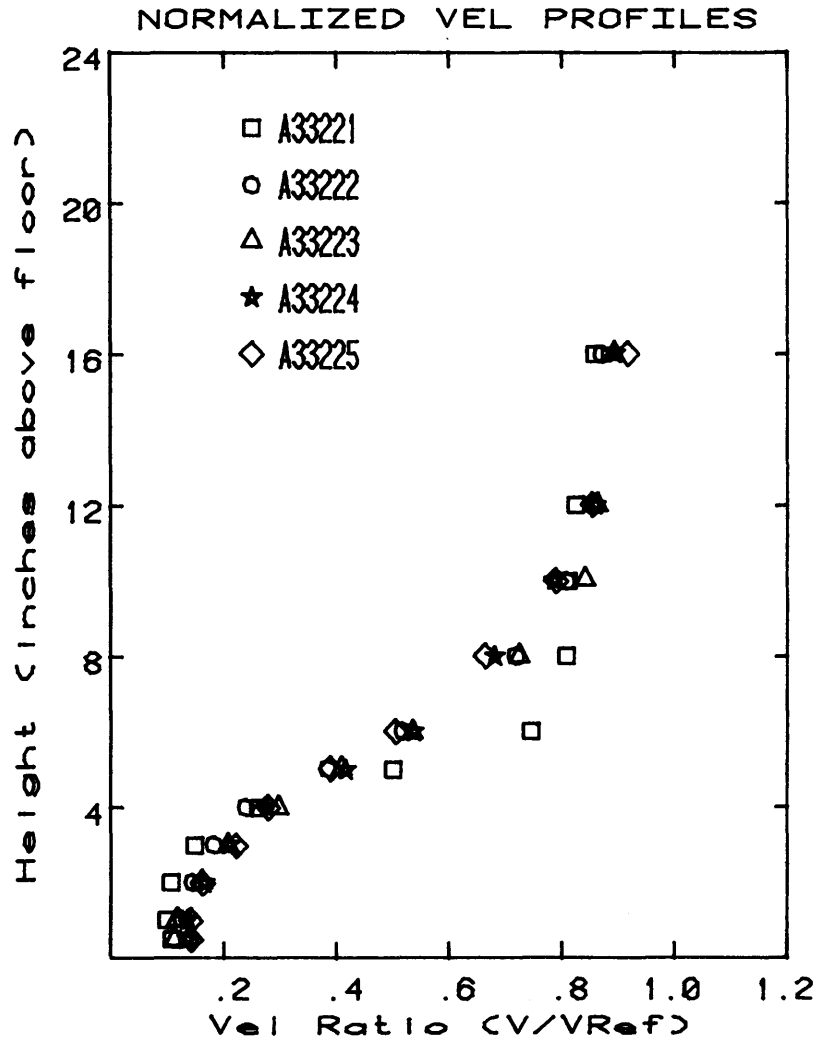


Graph # 77

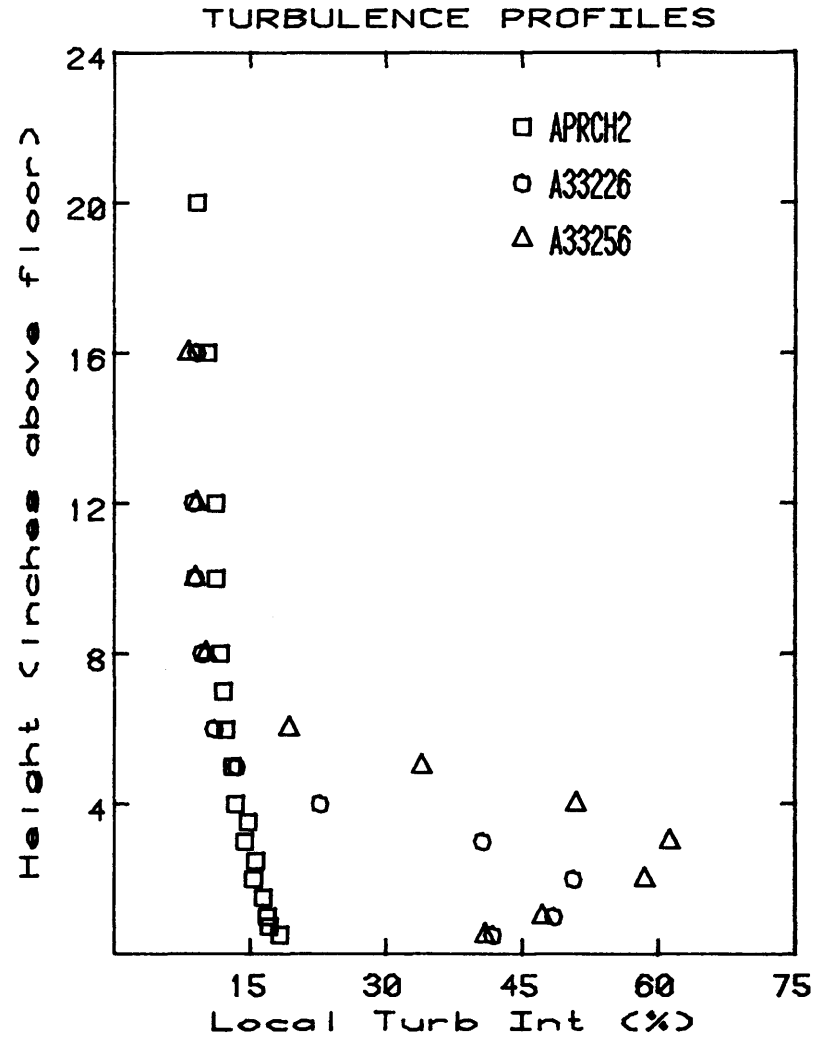
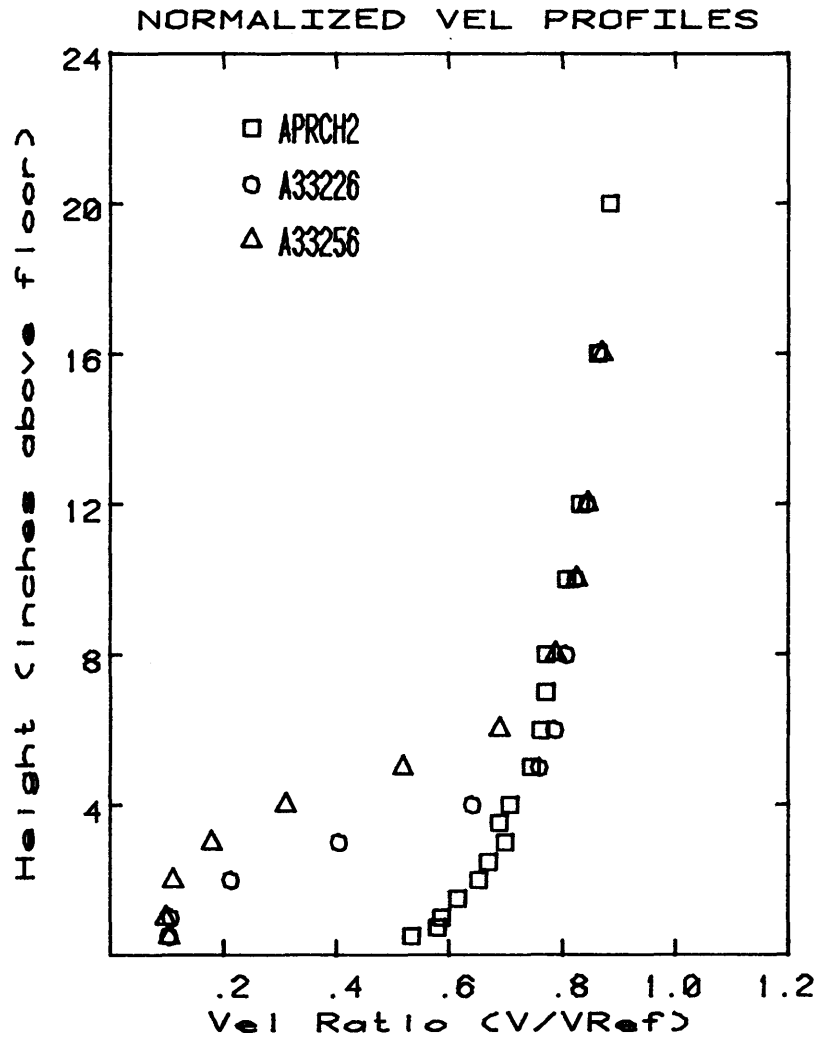




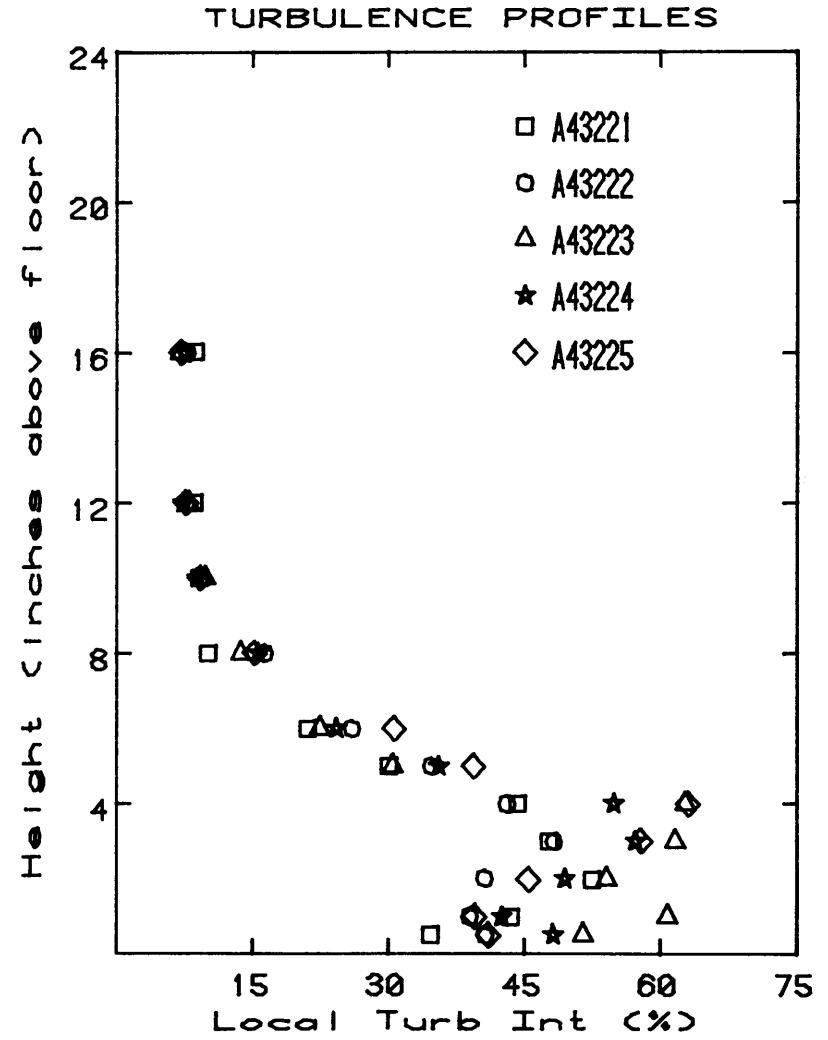
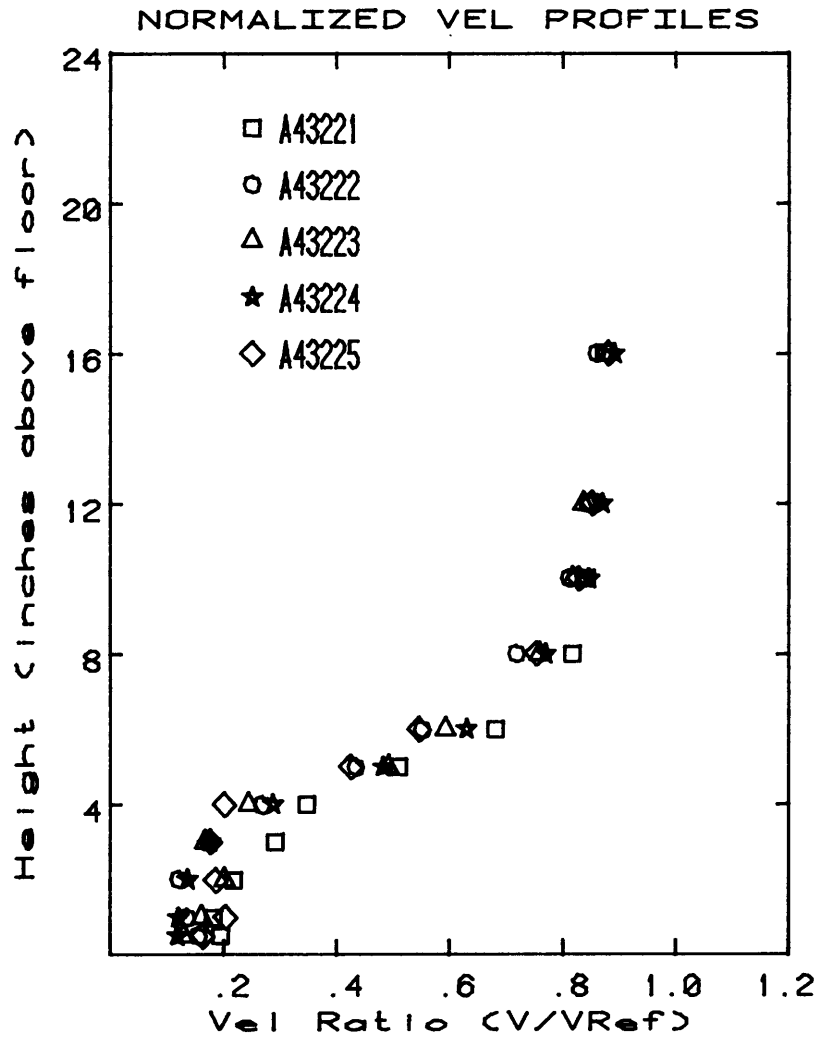
Graph # 78



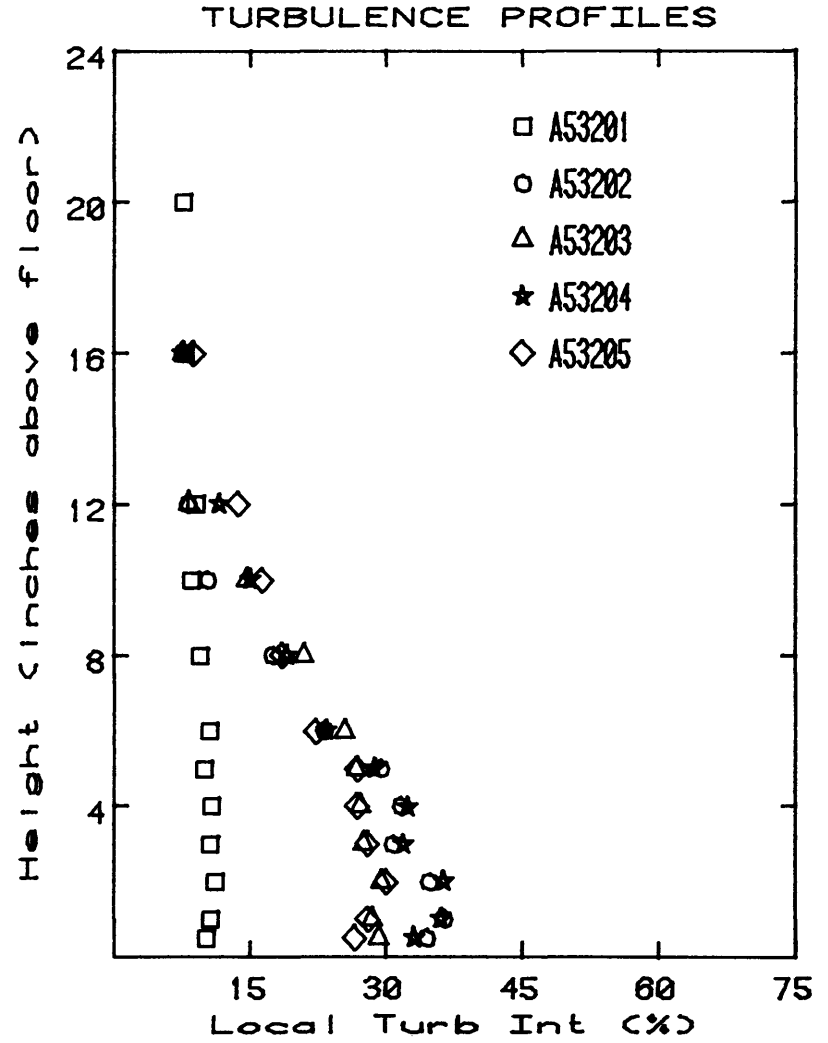
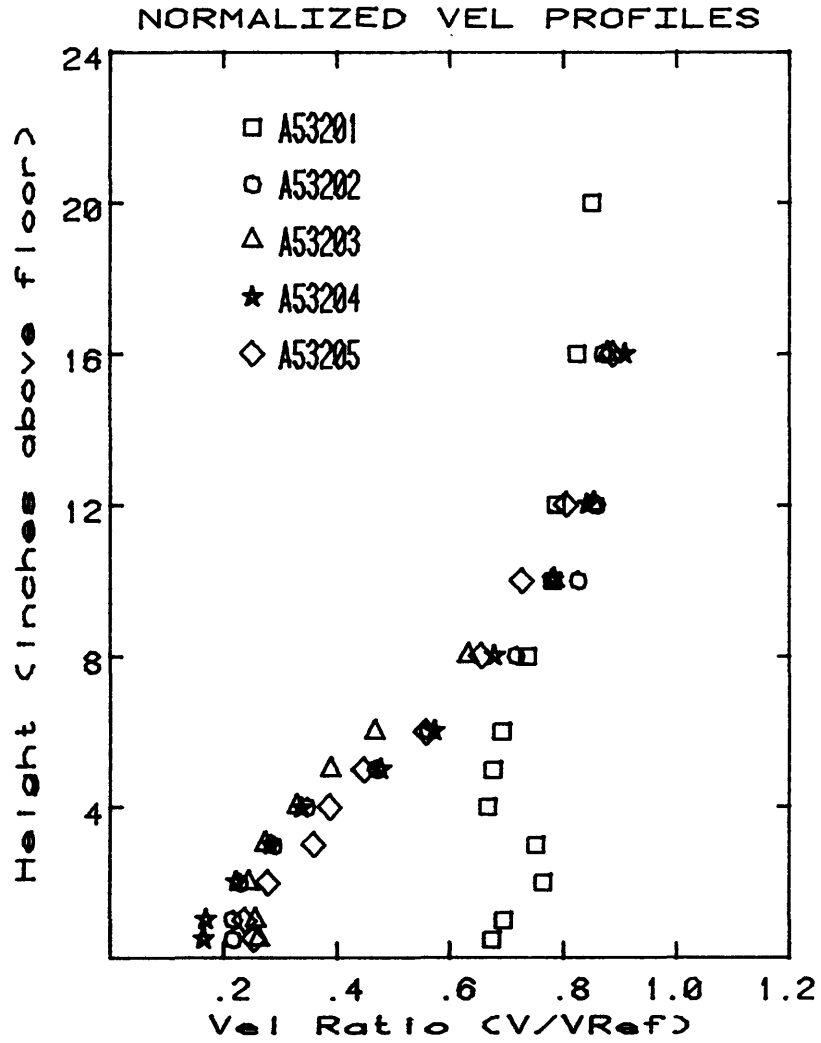
Graph # 79



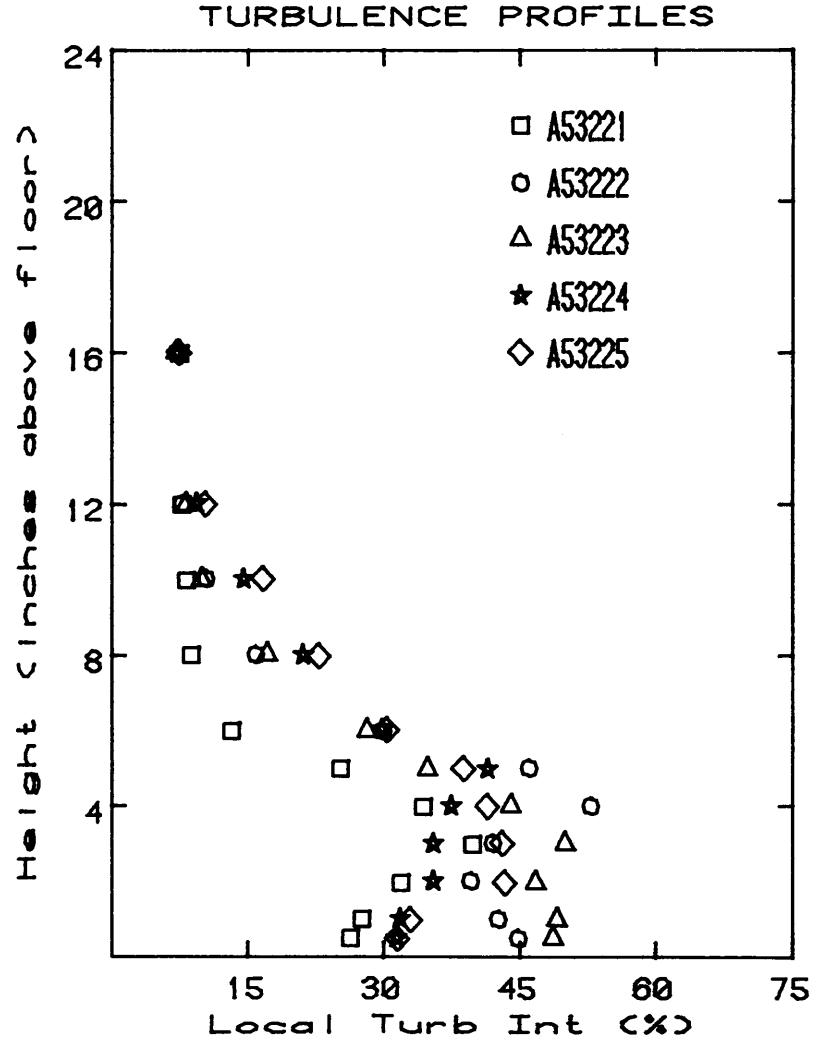
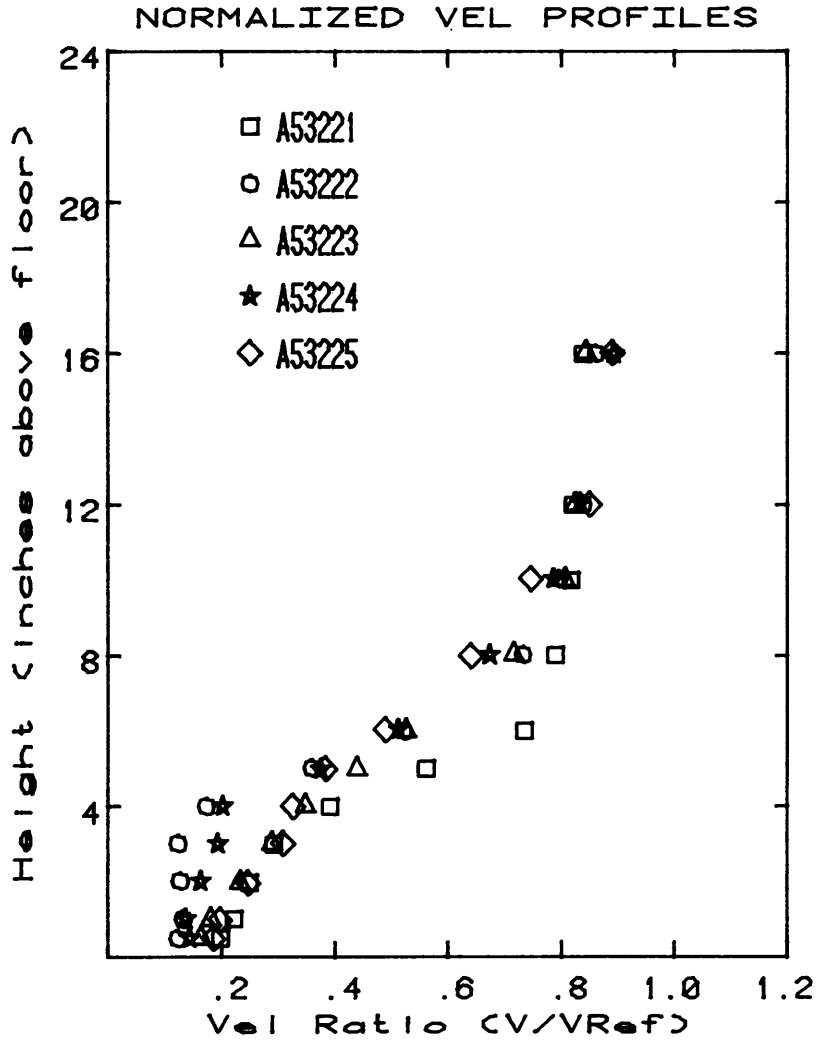
Graph # 80



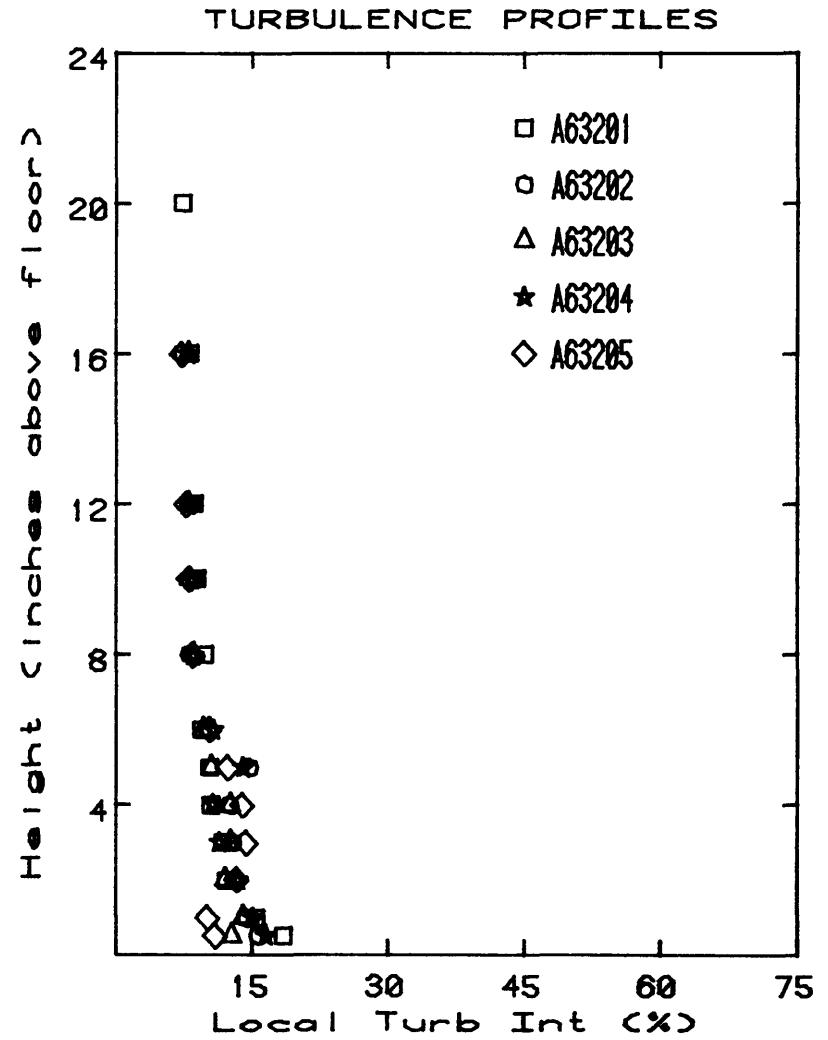
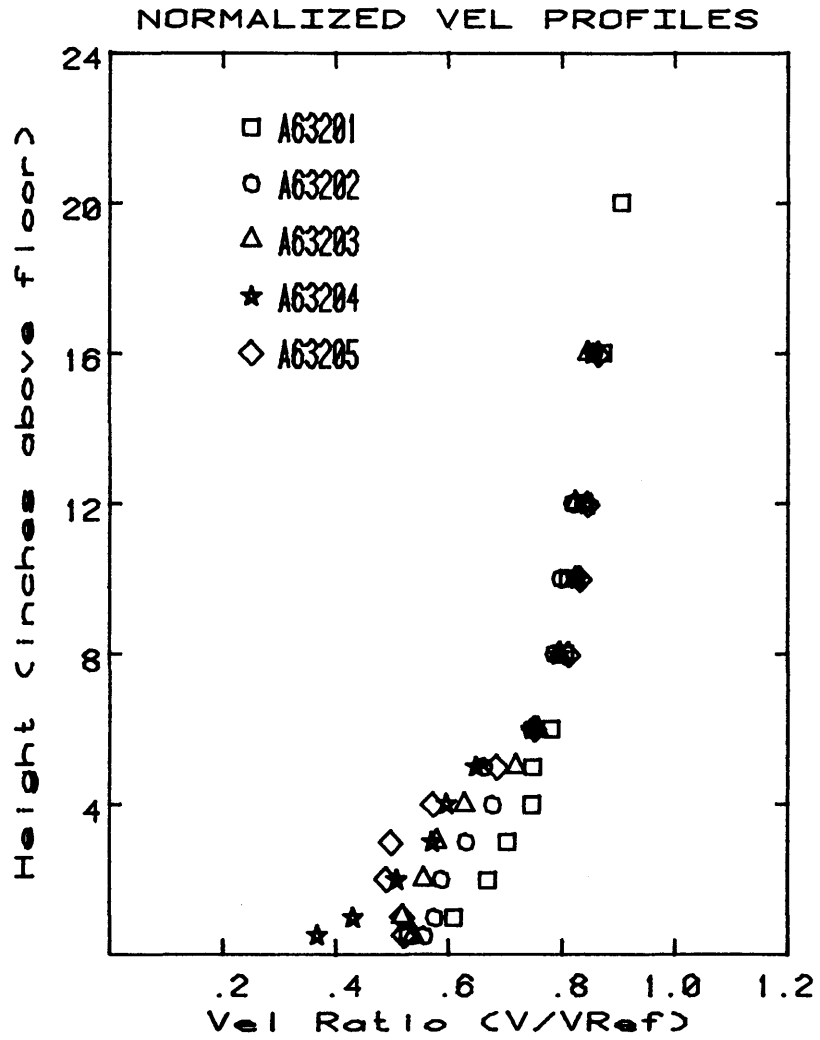
Graph # 81



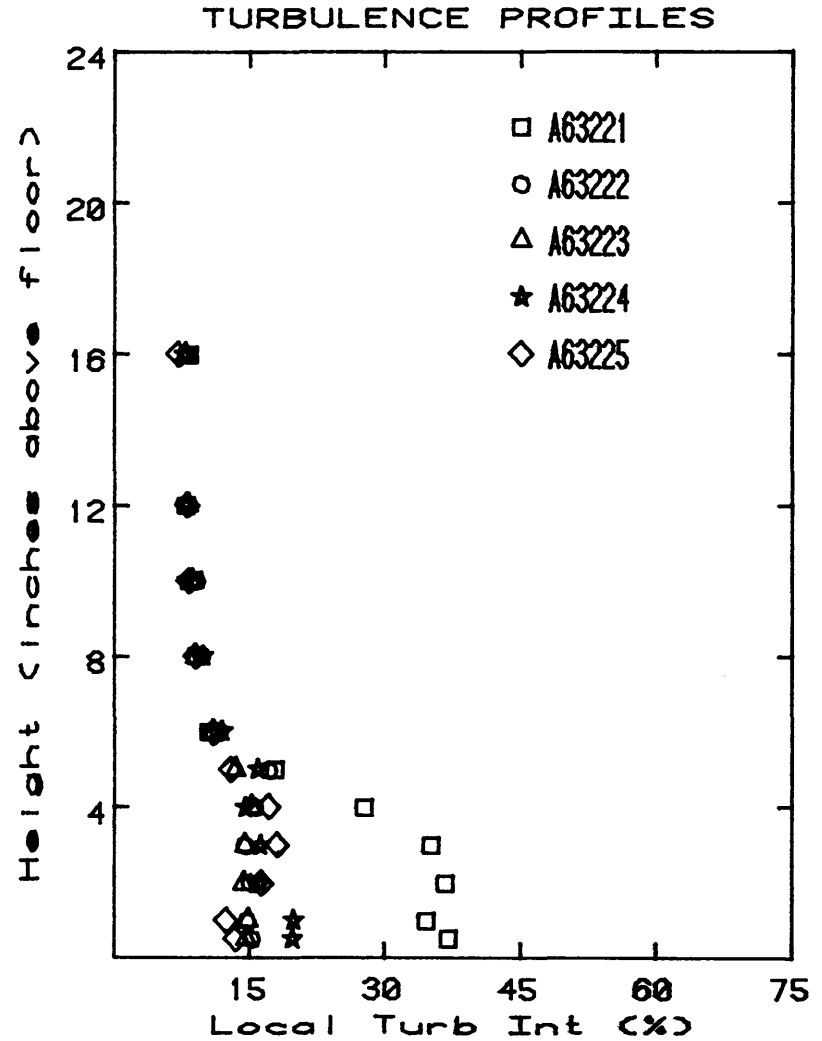
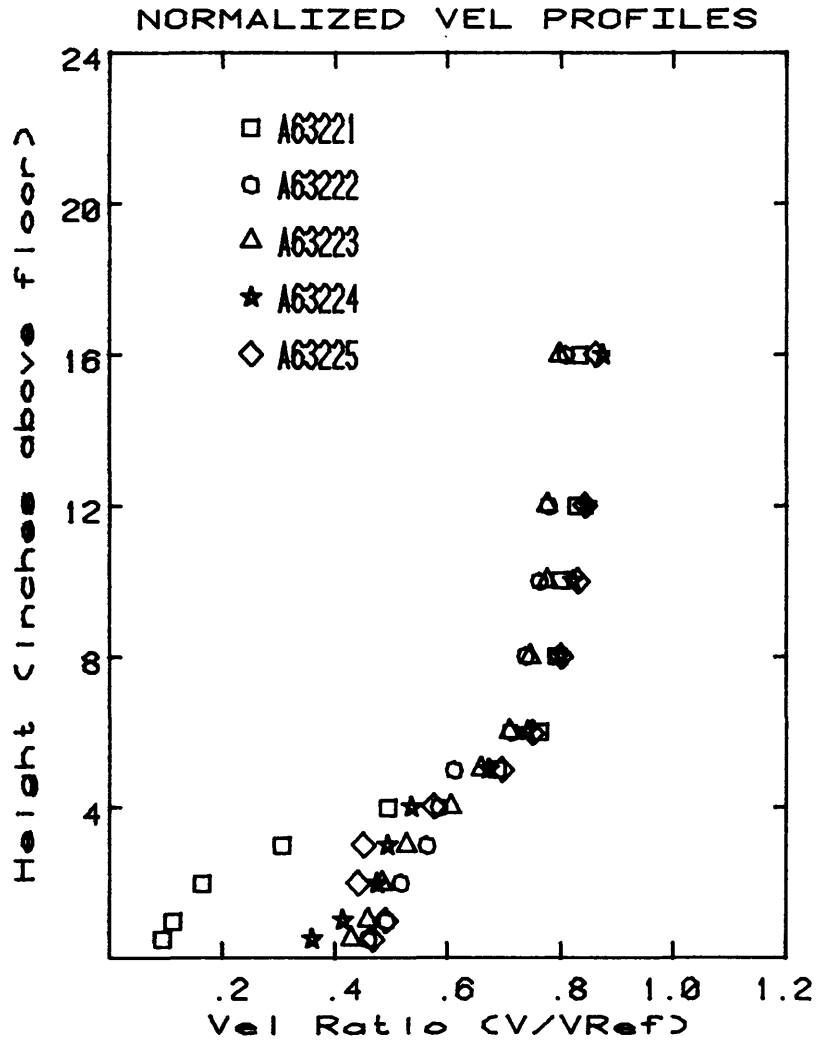
Graph # 82



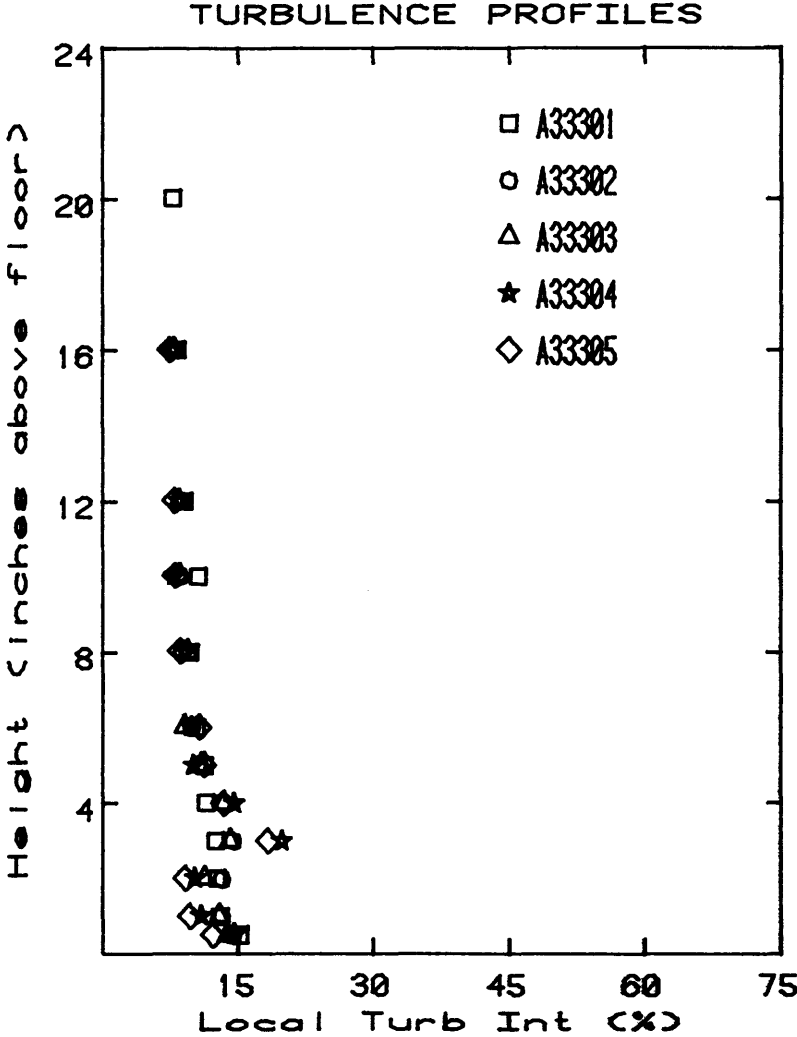
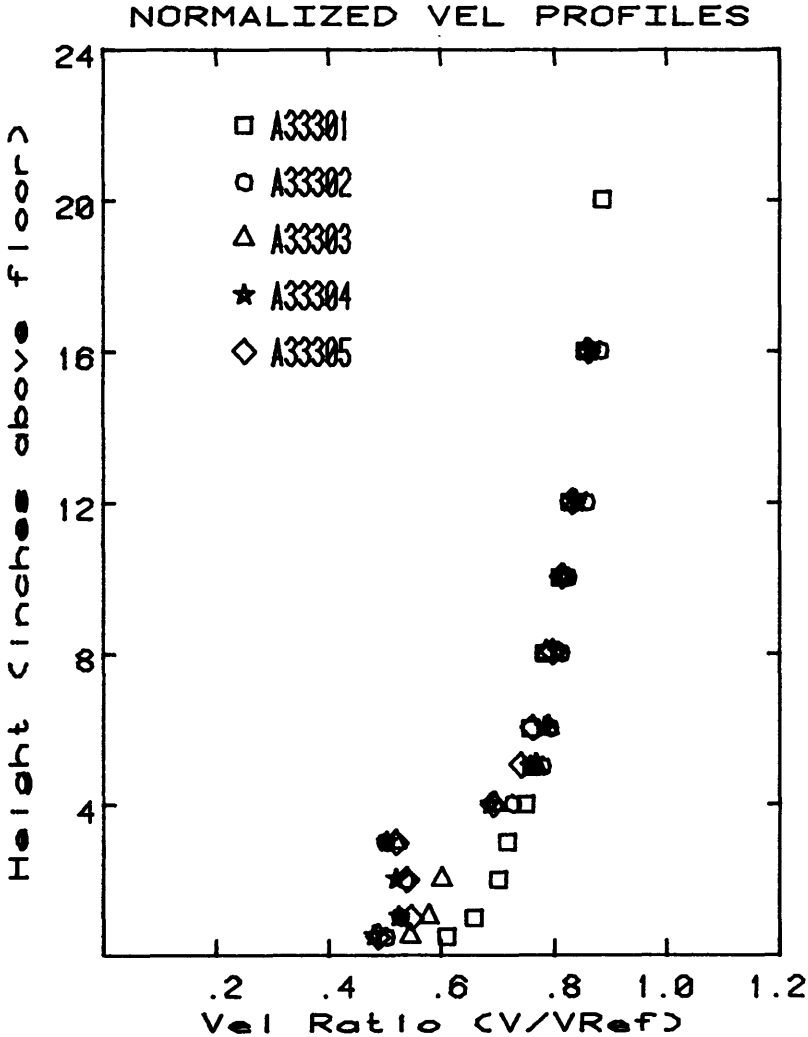
Graph # 83



Graph # 84

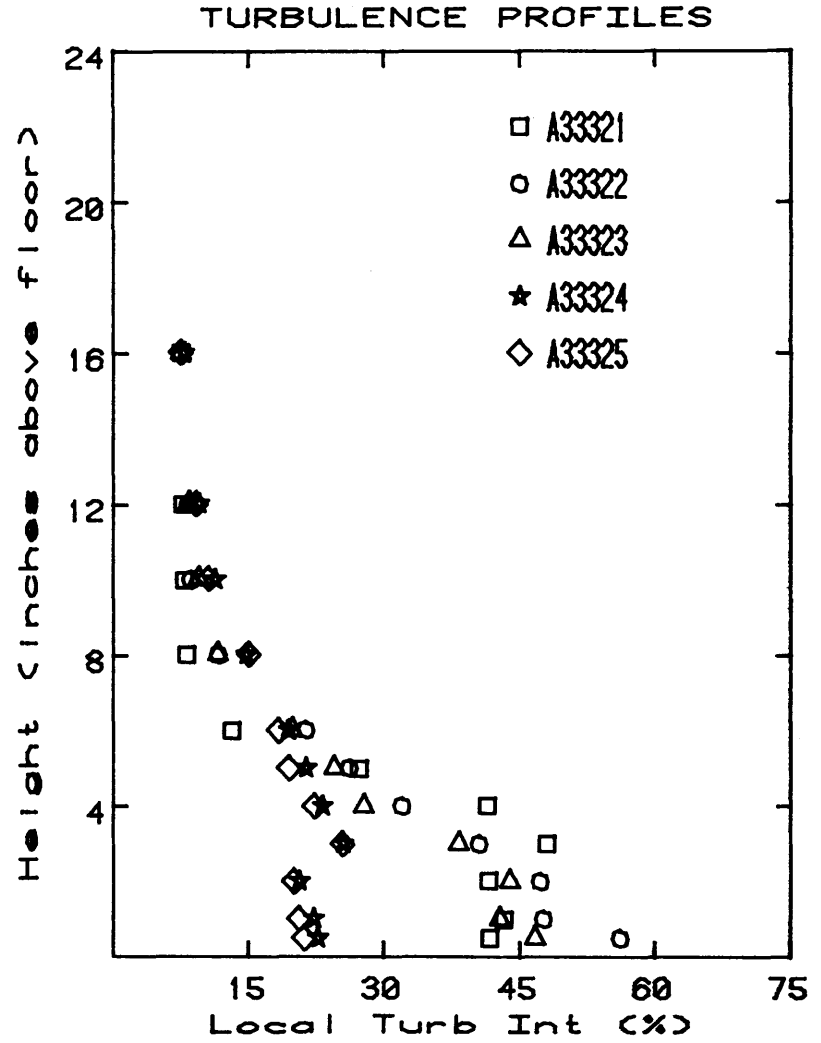
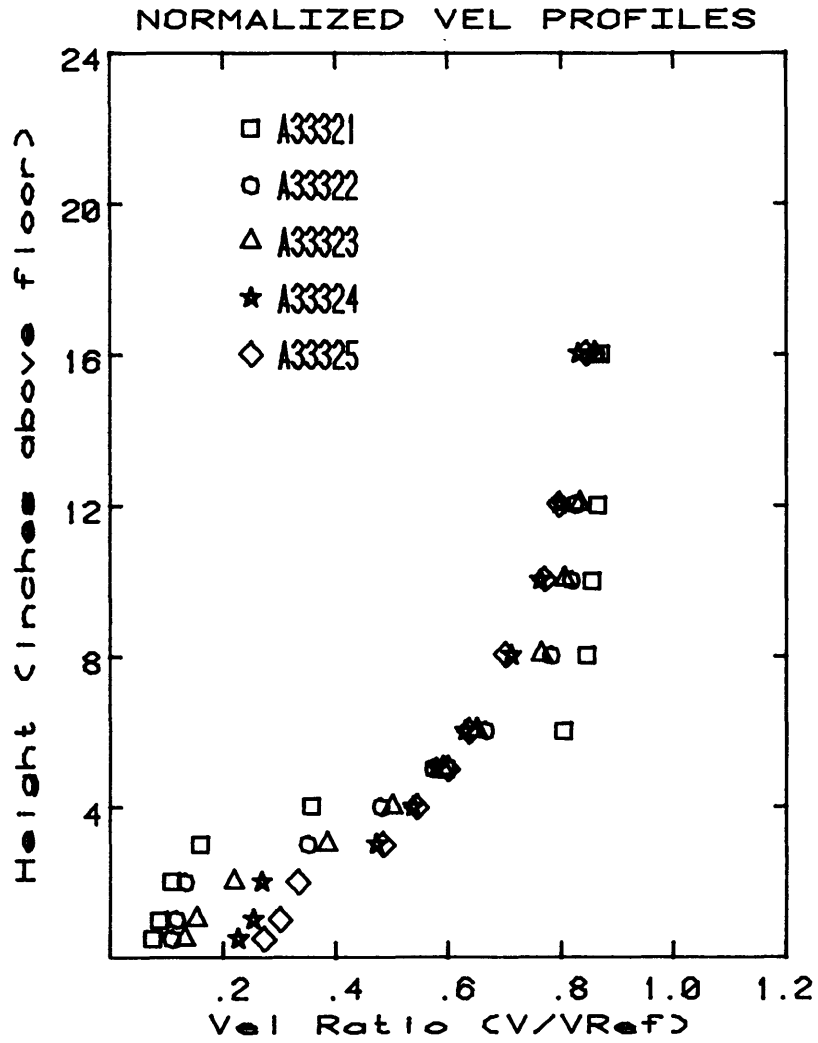


Graph # 85

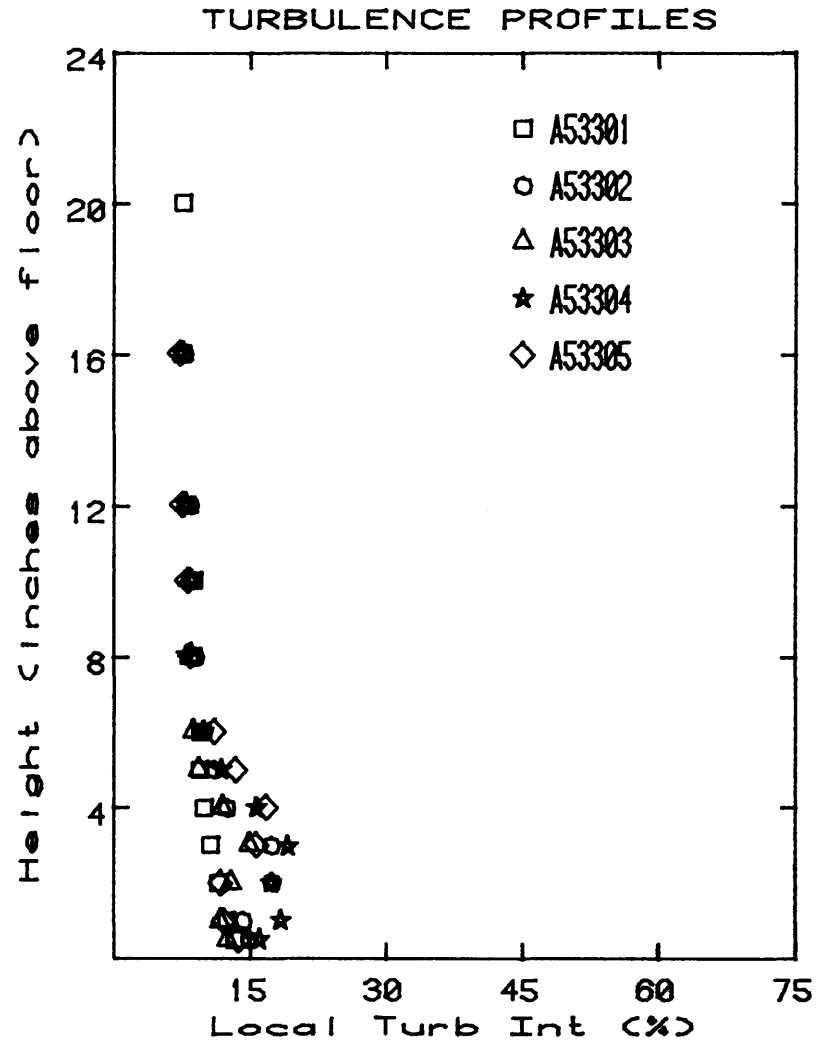
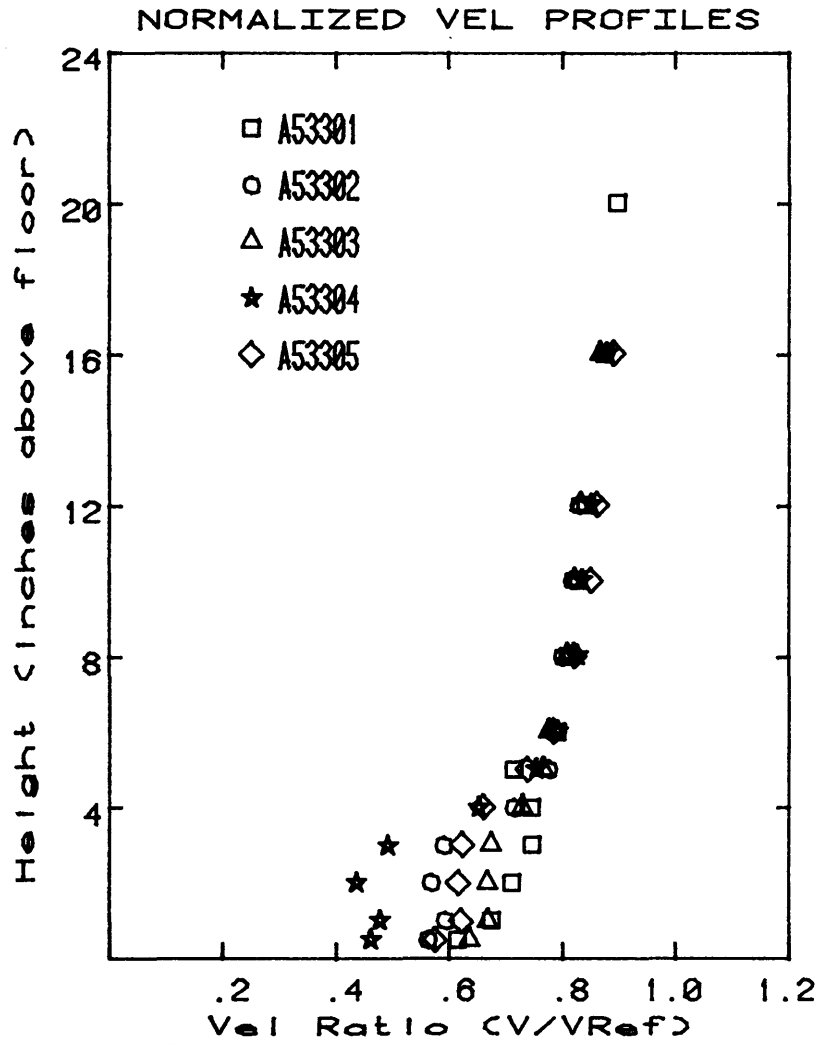




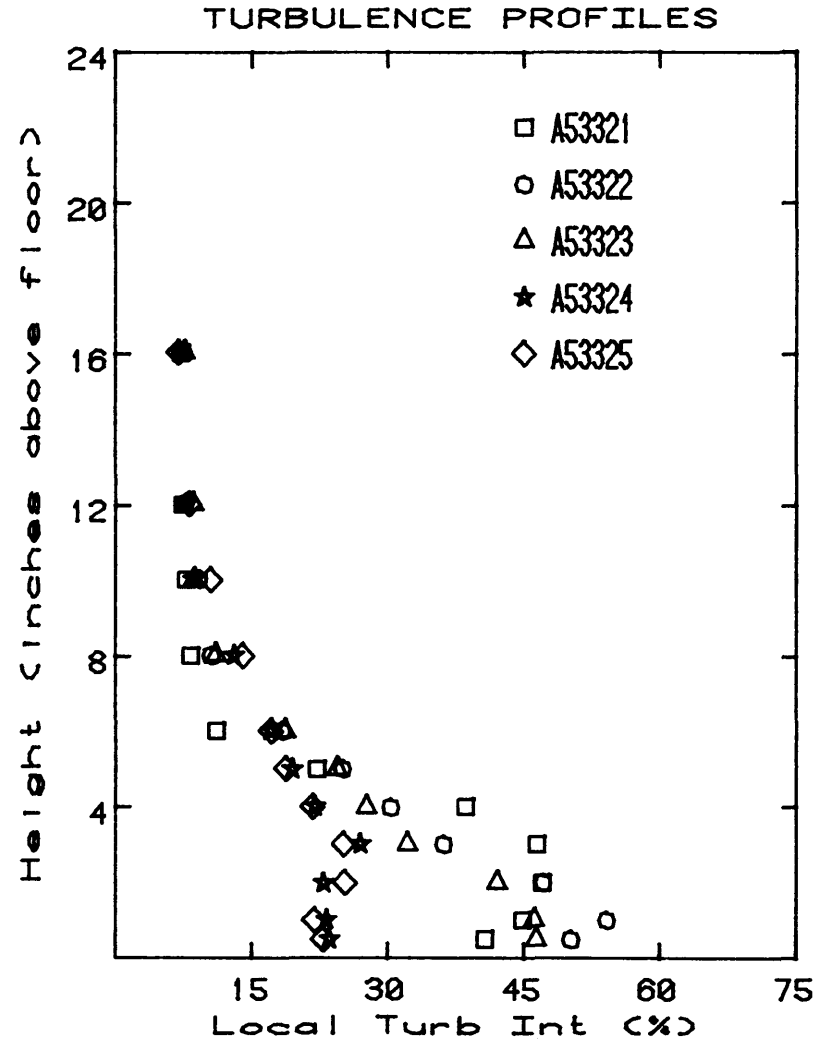
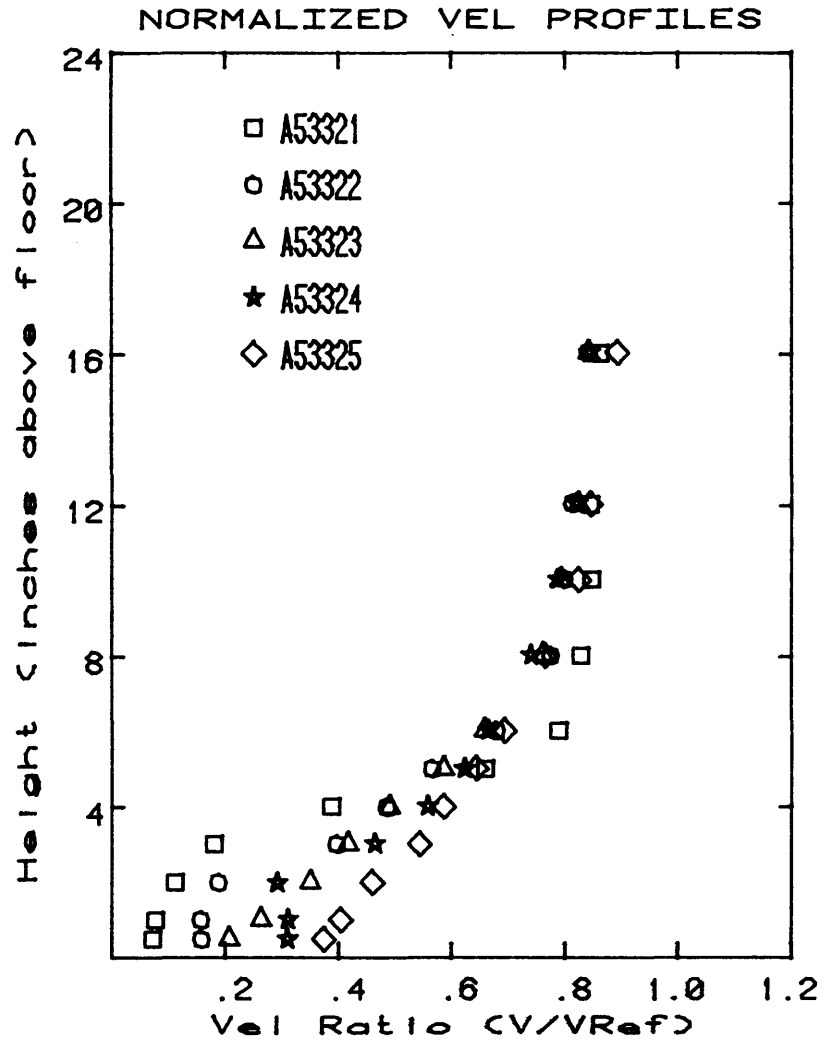
Graph # 86



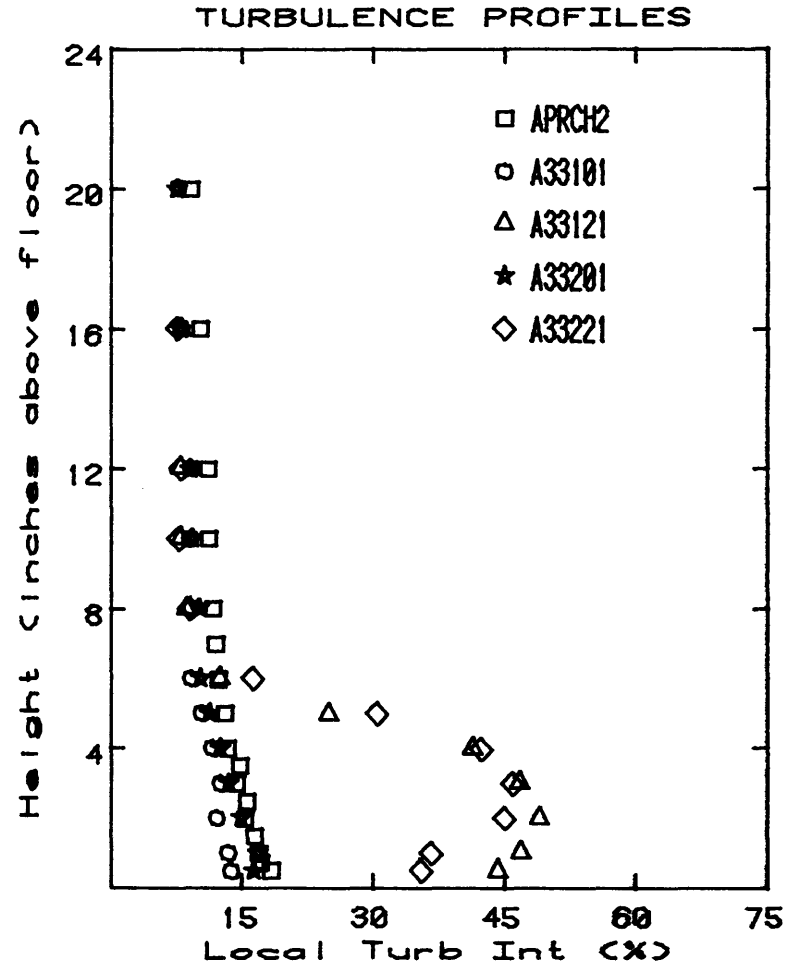
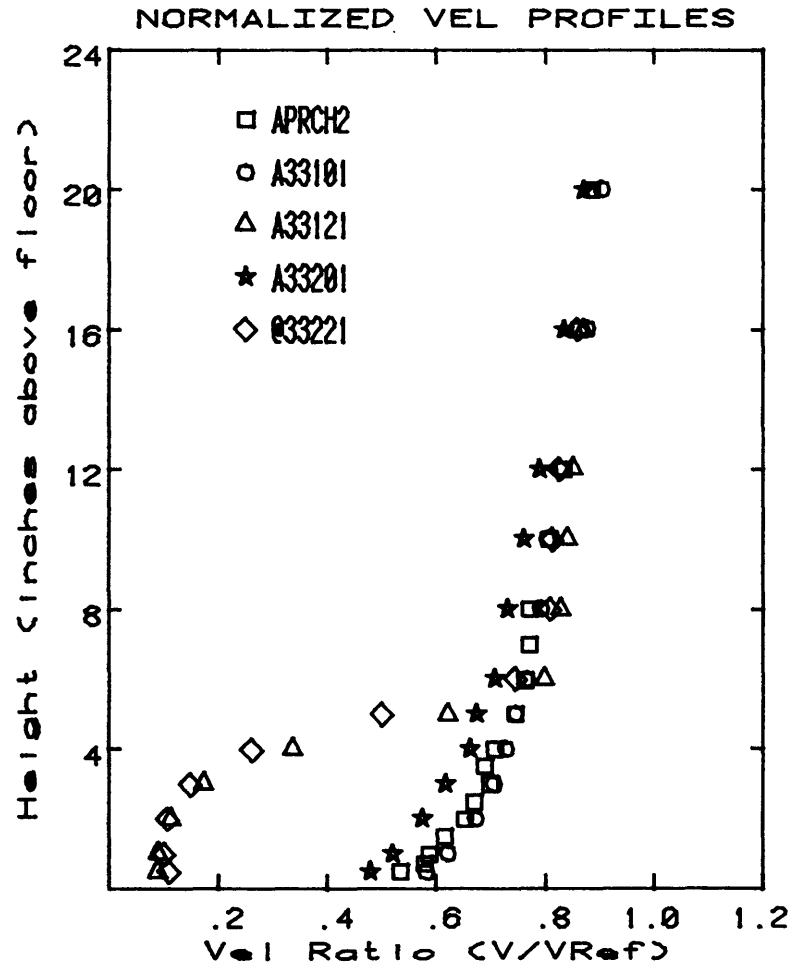
Graph # 87



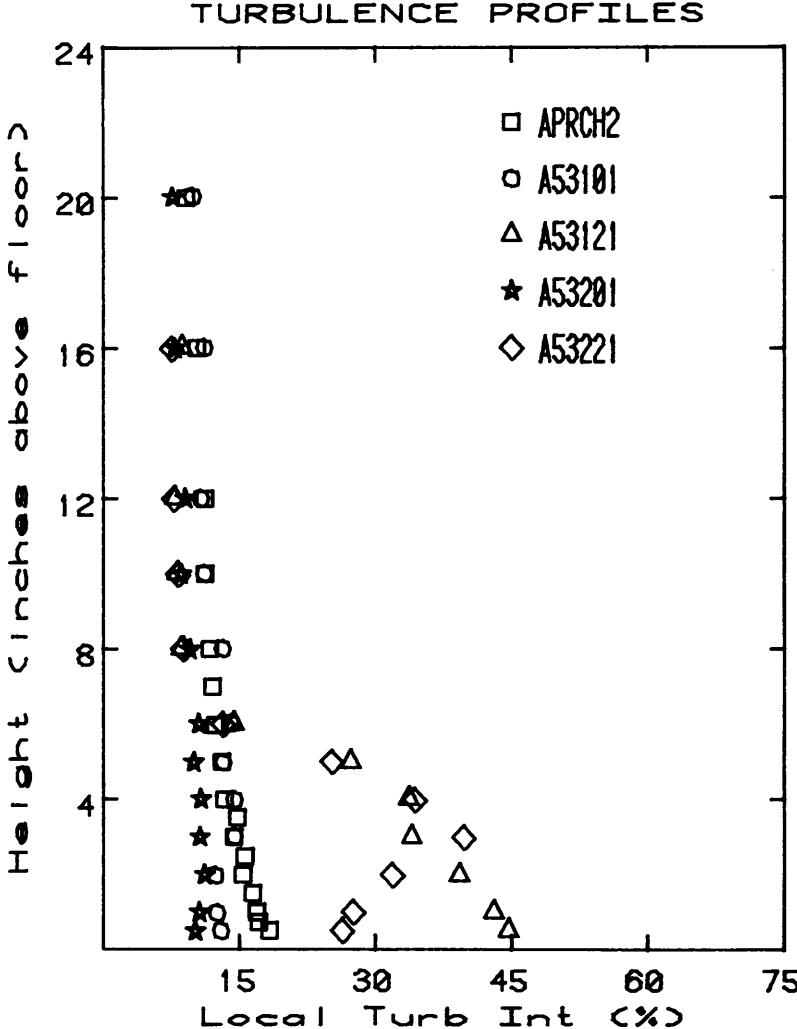
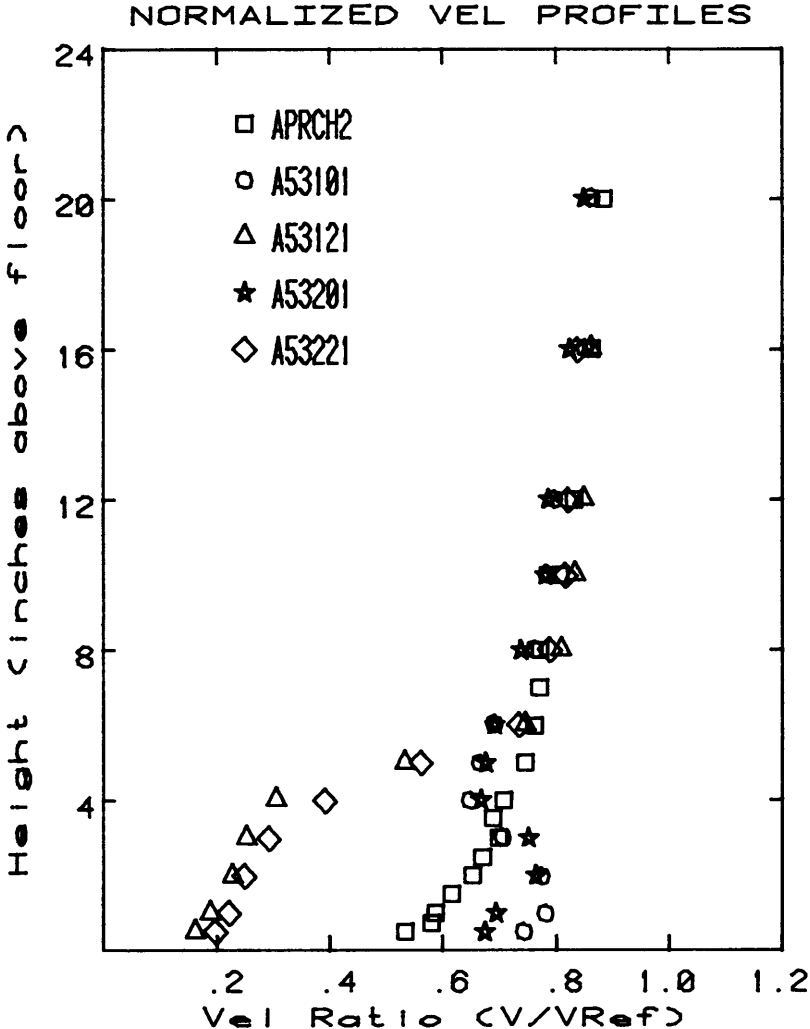
Graph # 88



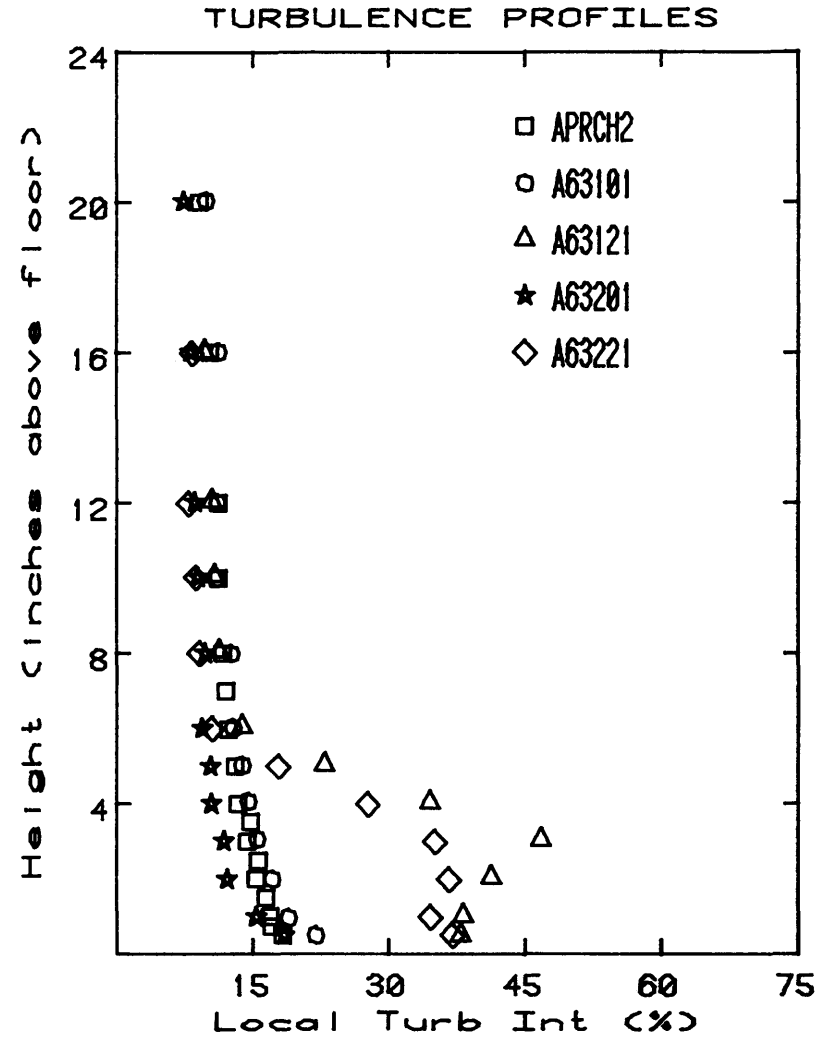
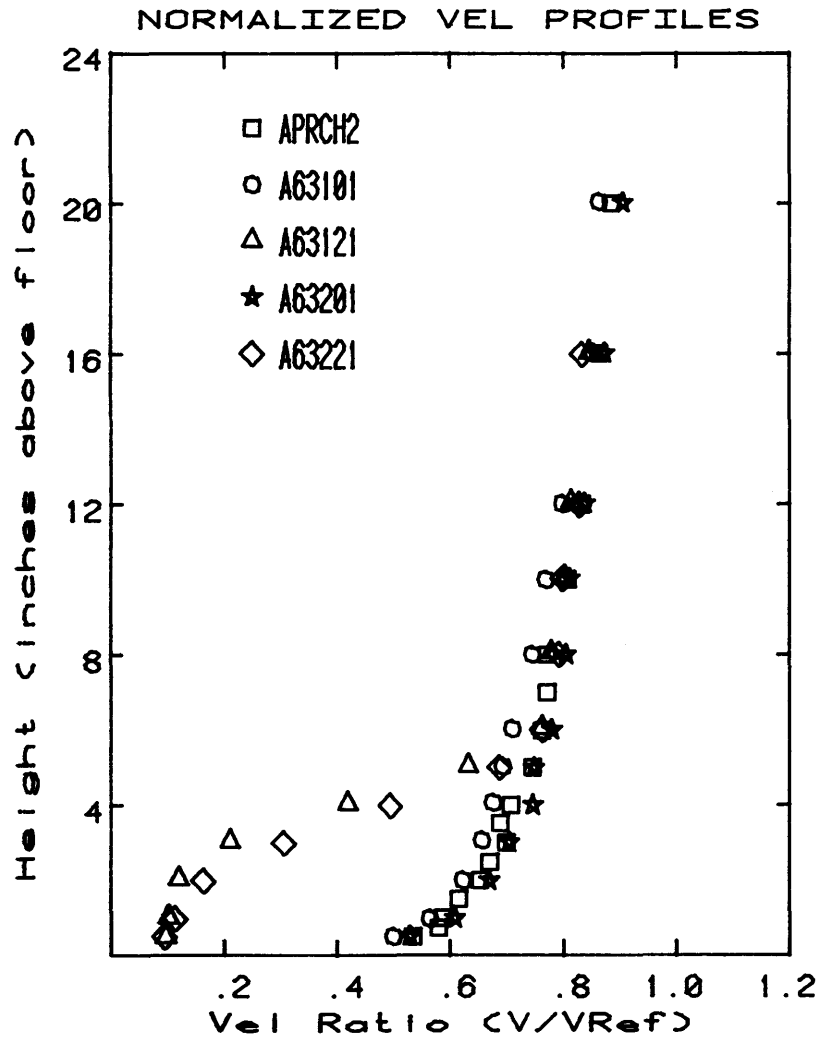
Graph # 89



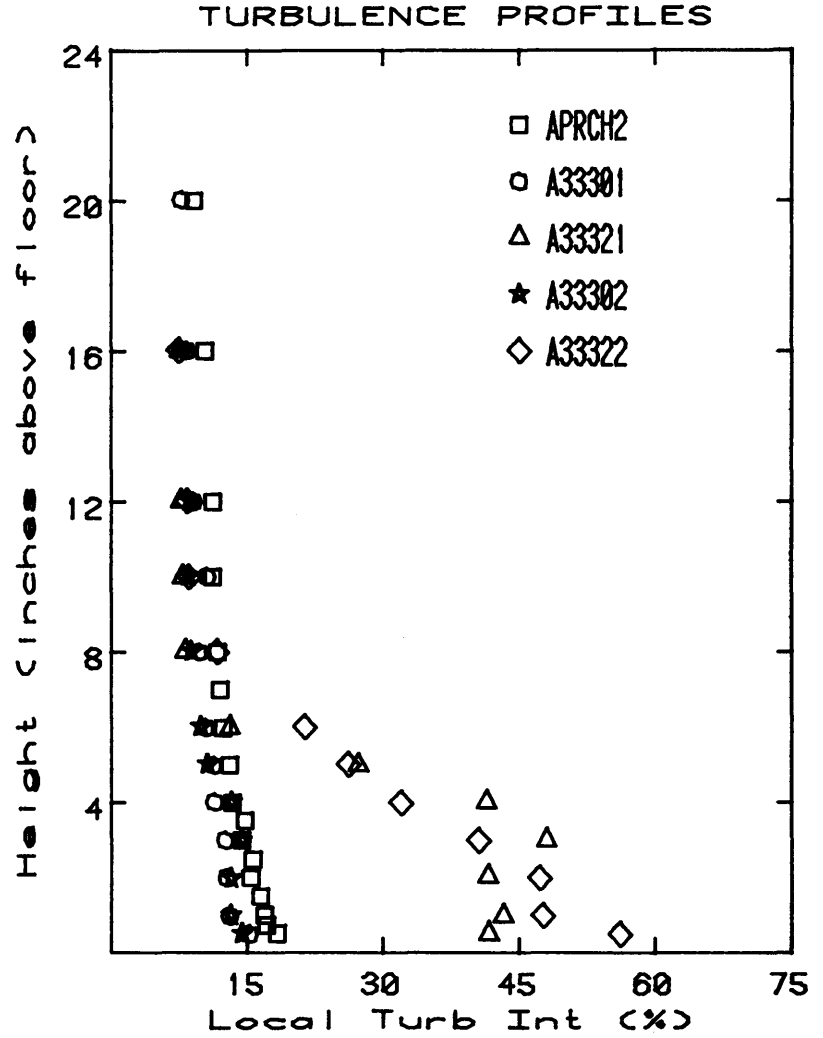
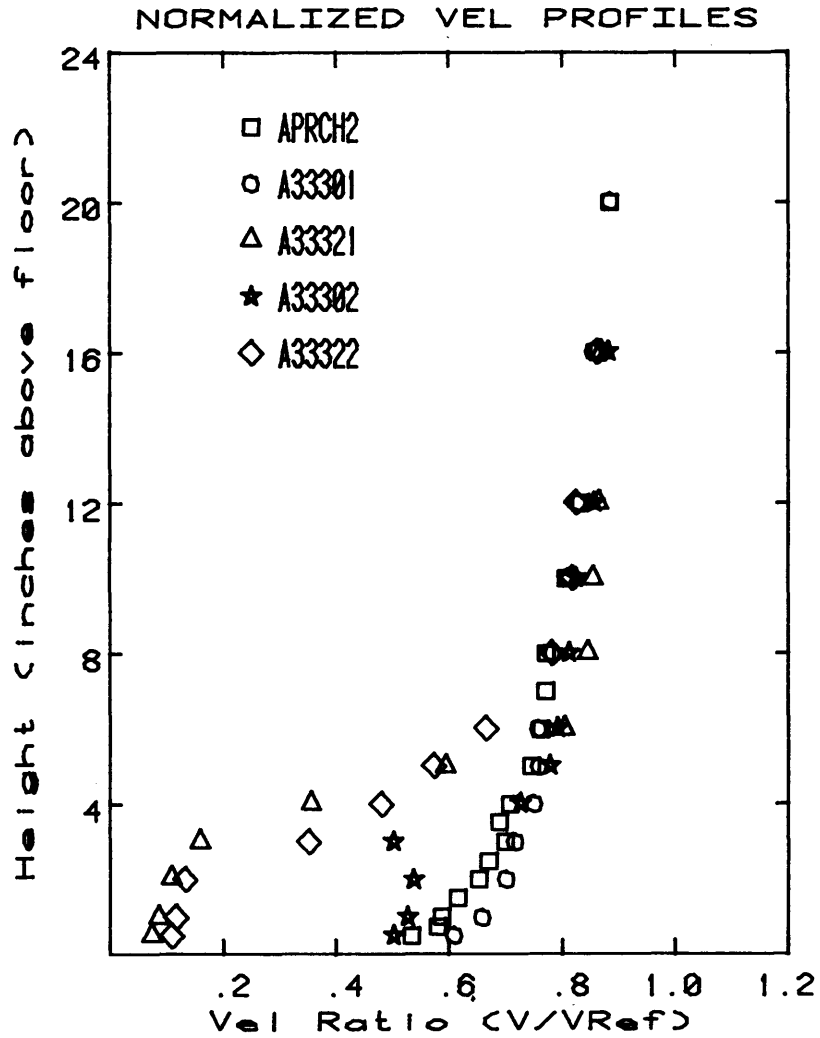
Graph # 90



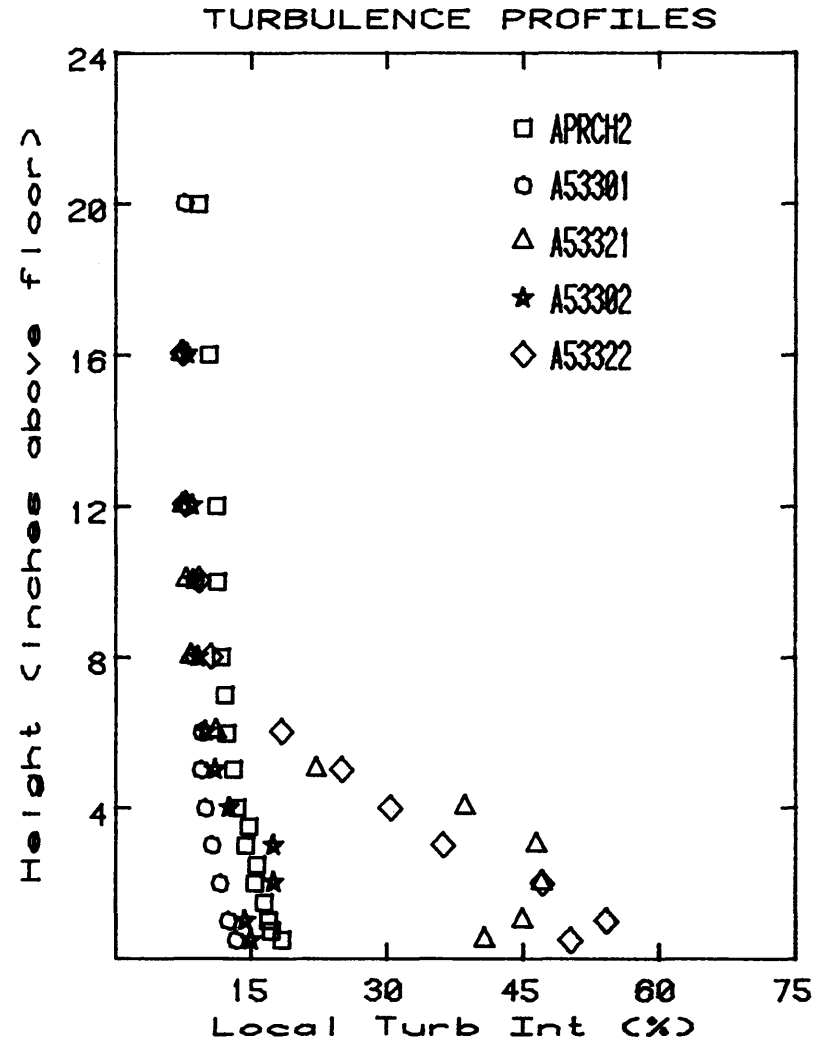
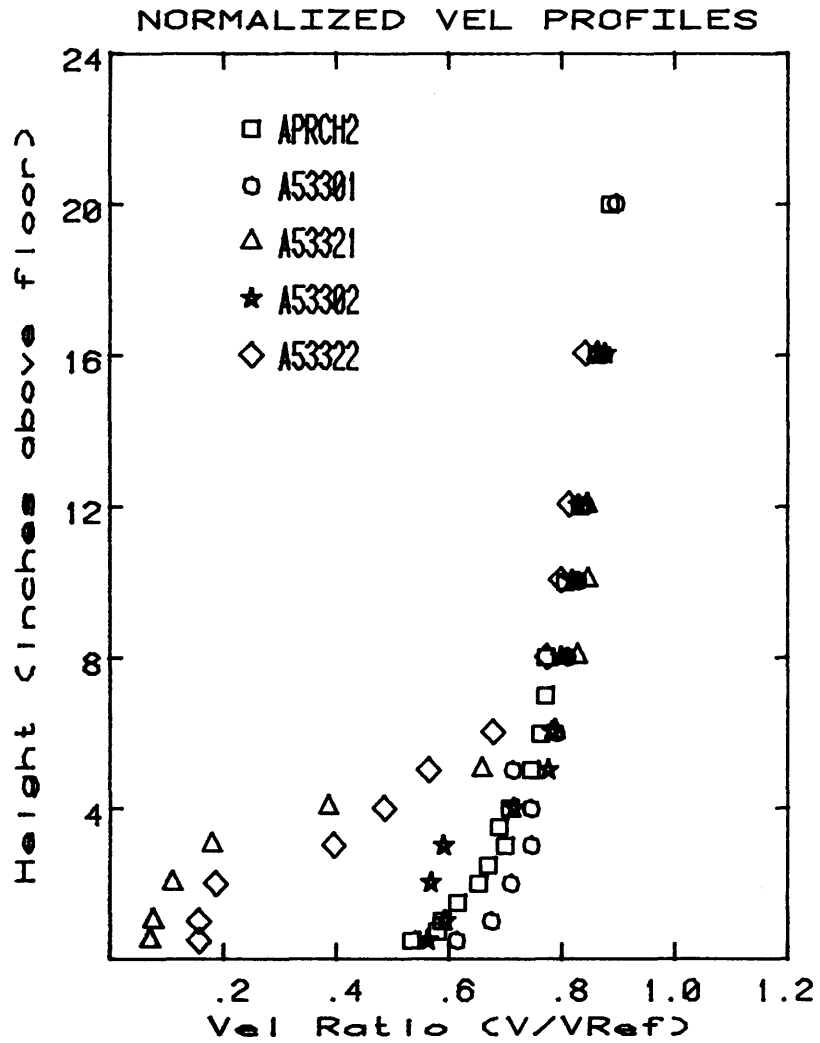
Graph # 91



Graph # 92

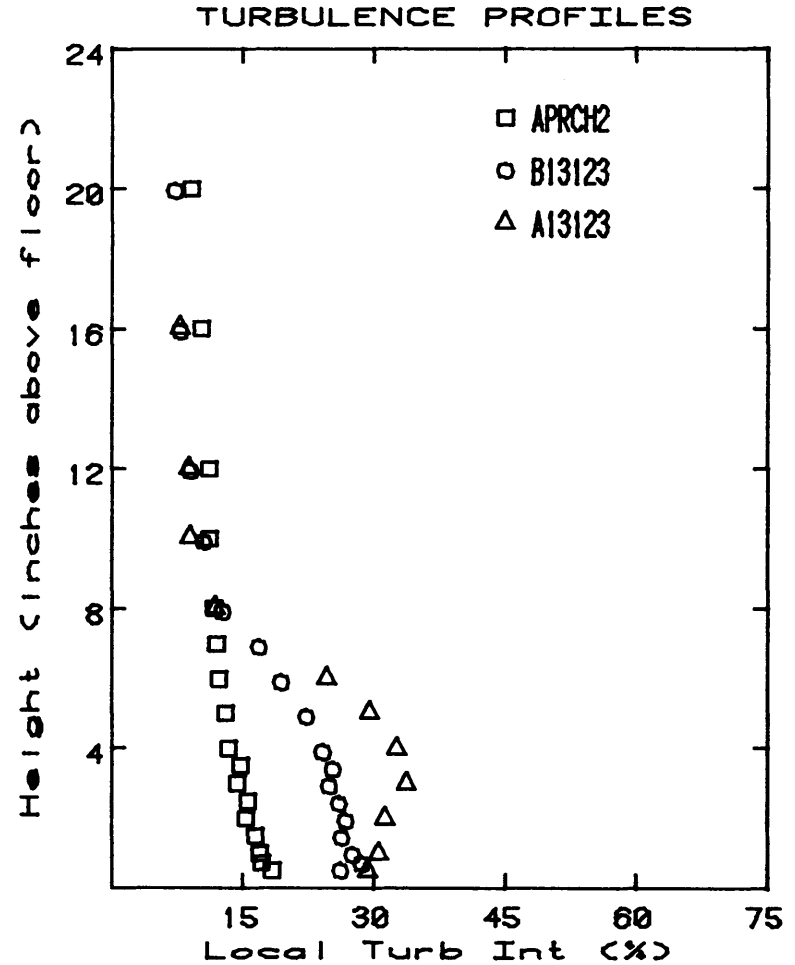
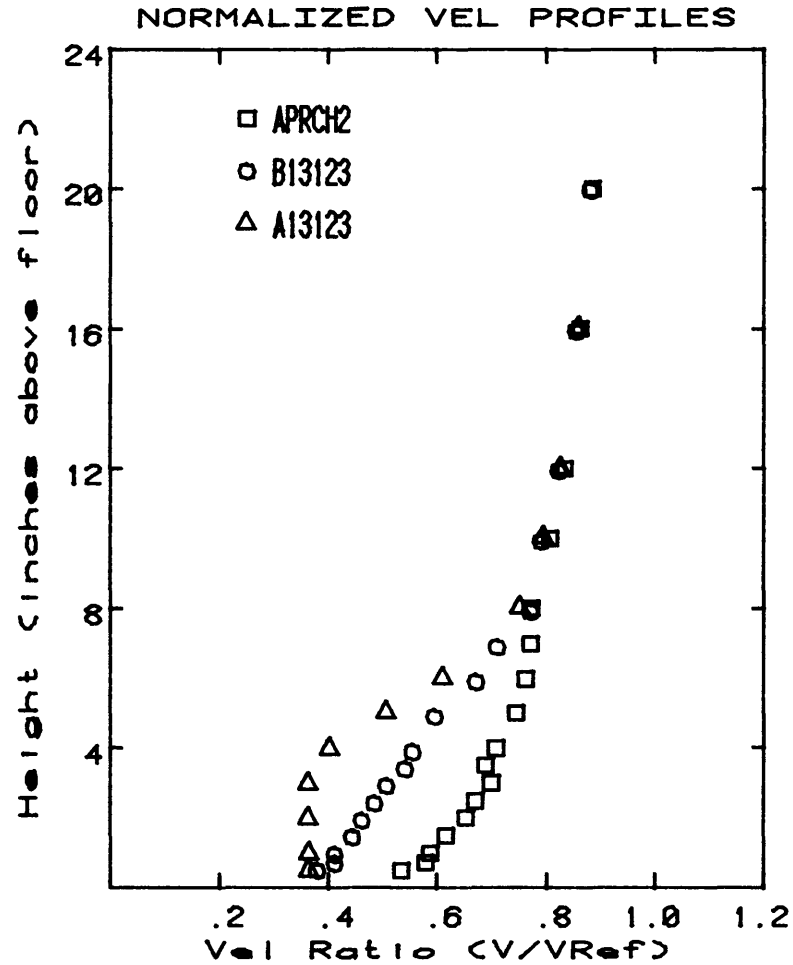


Graph # 93

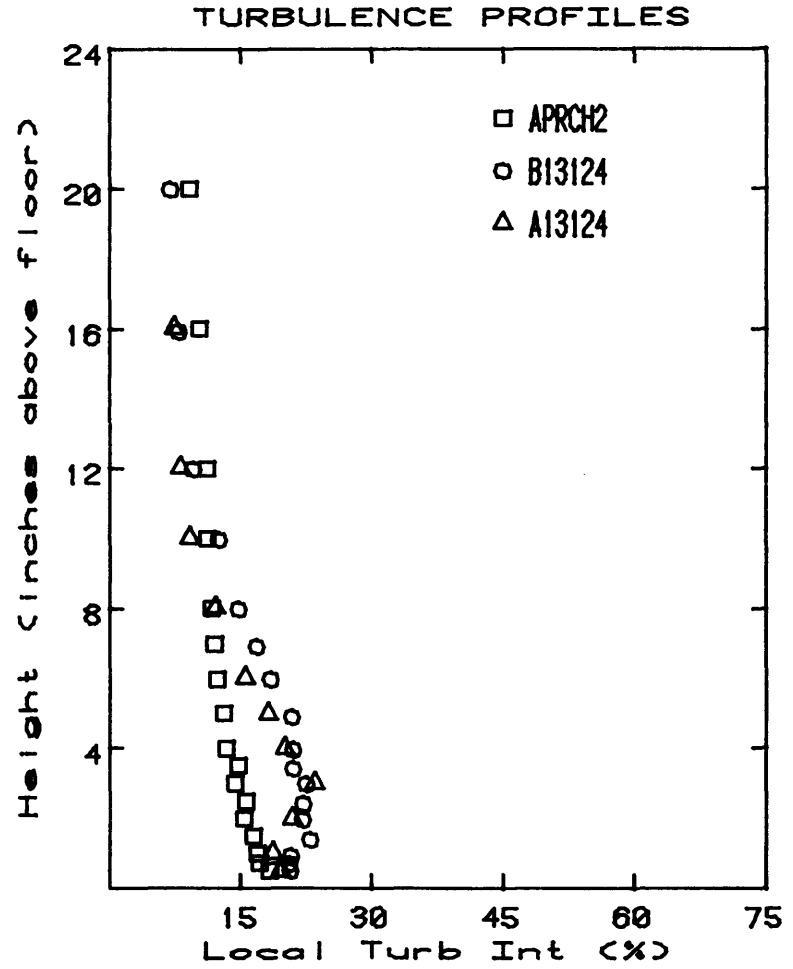
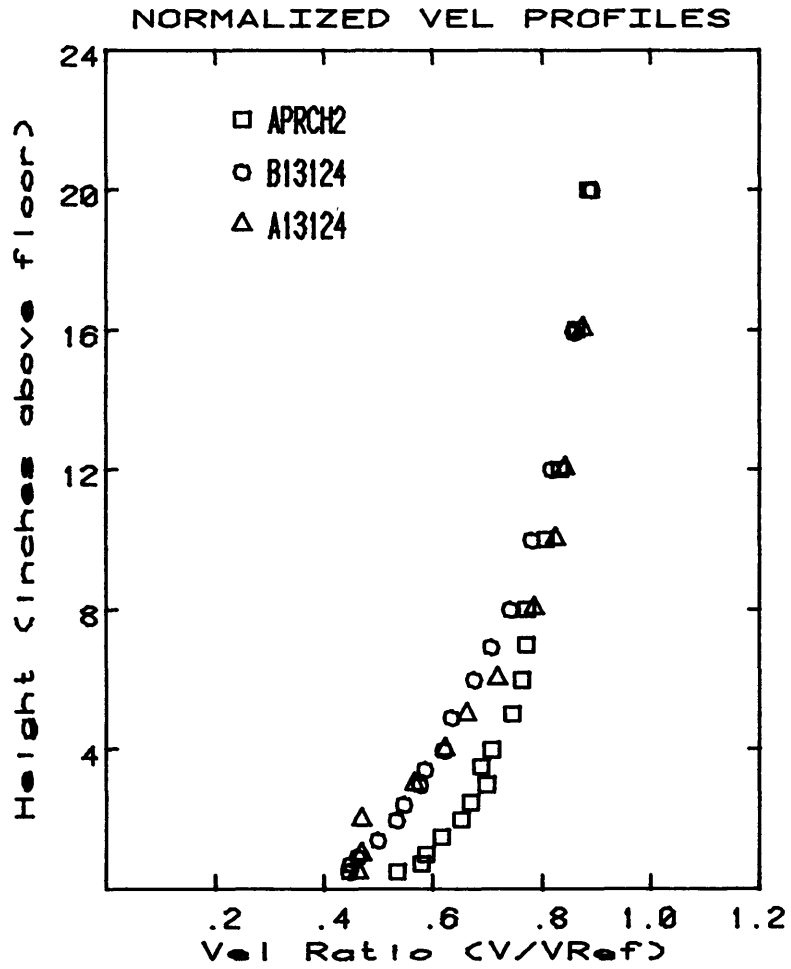




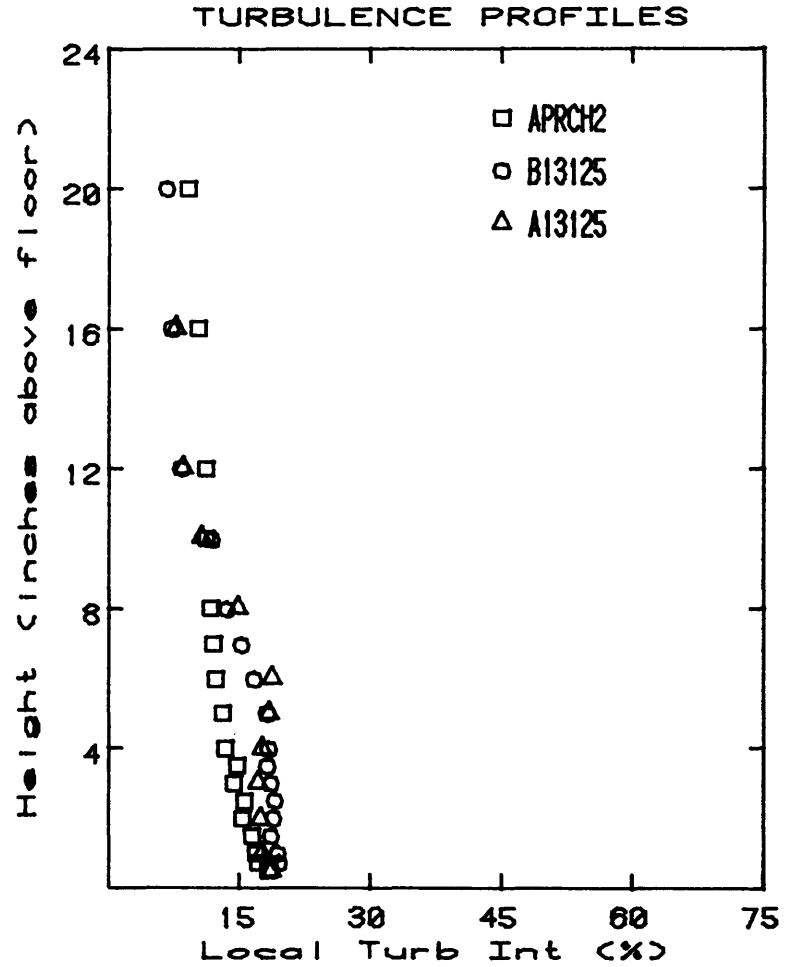
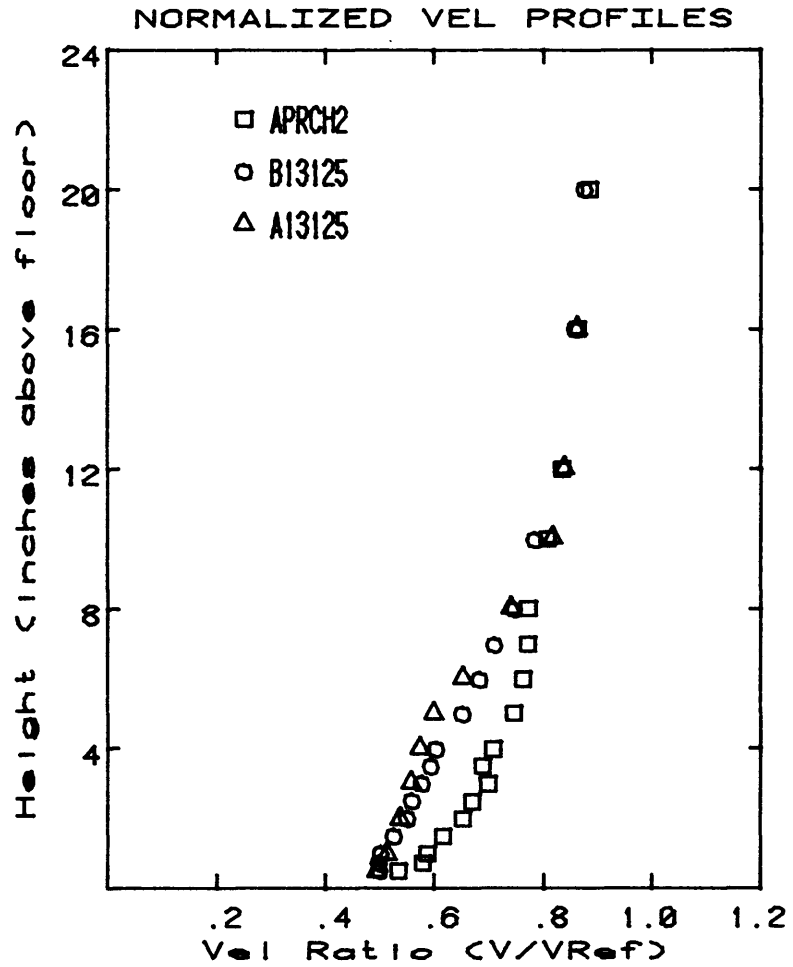
Graph # 94



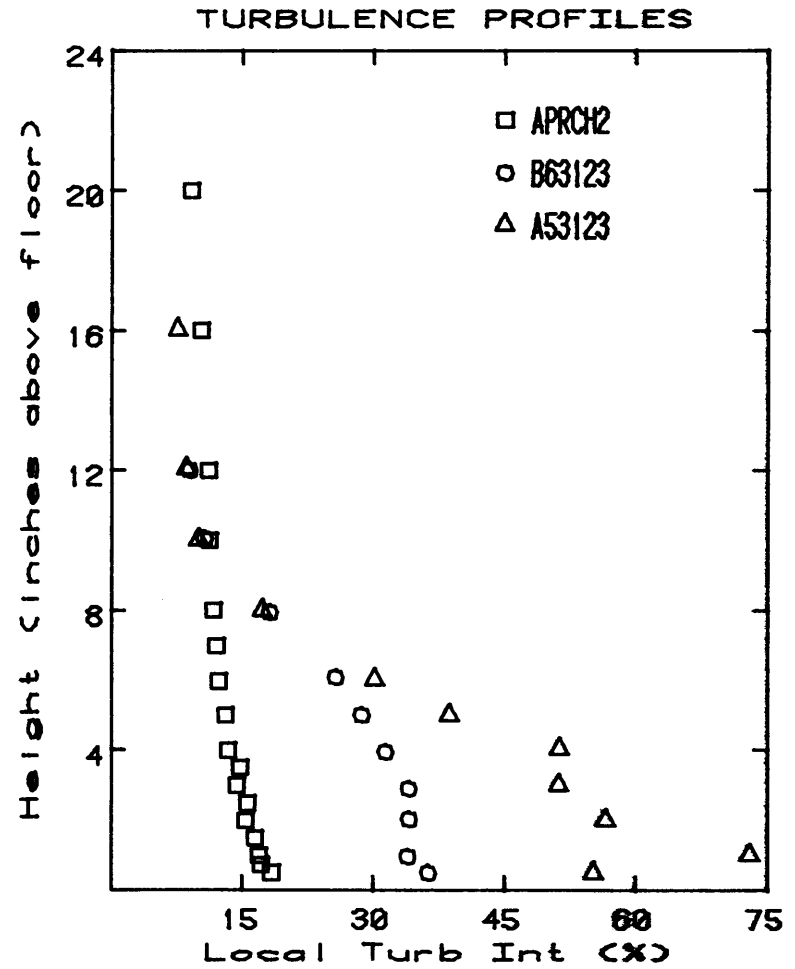
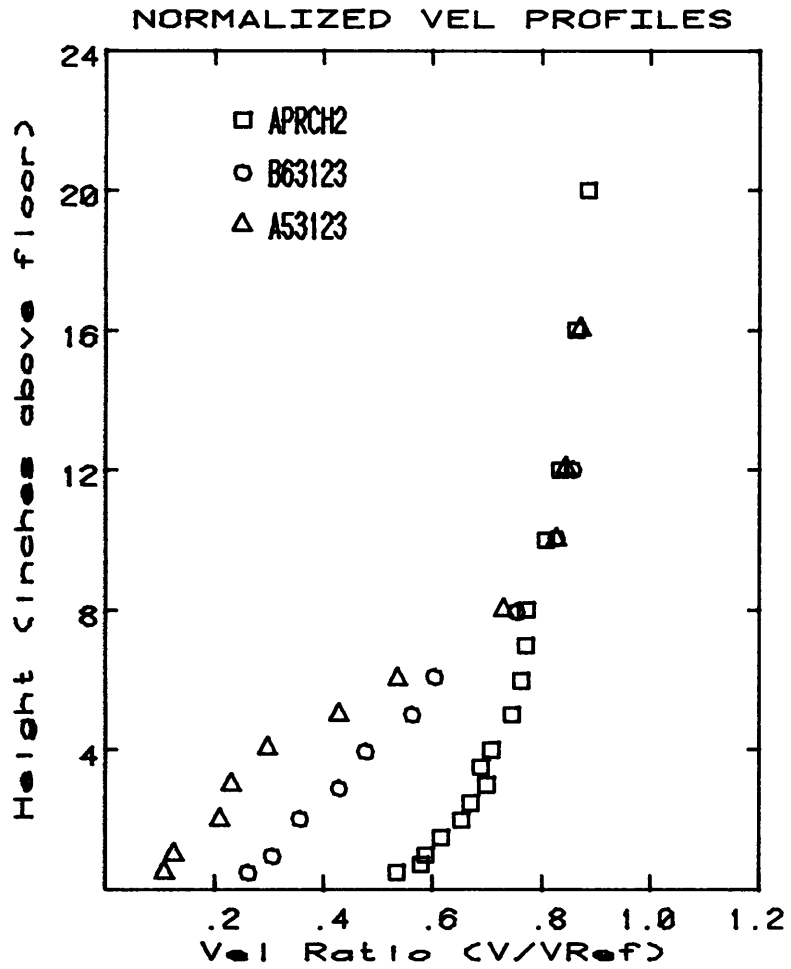
Graph # 95



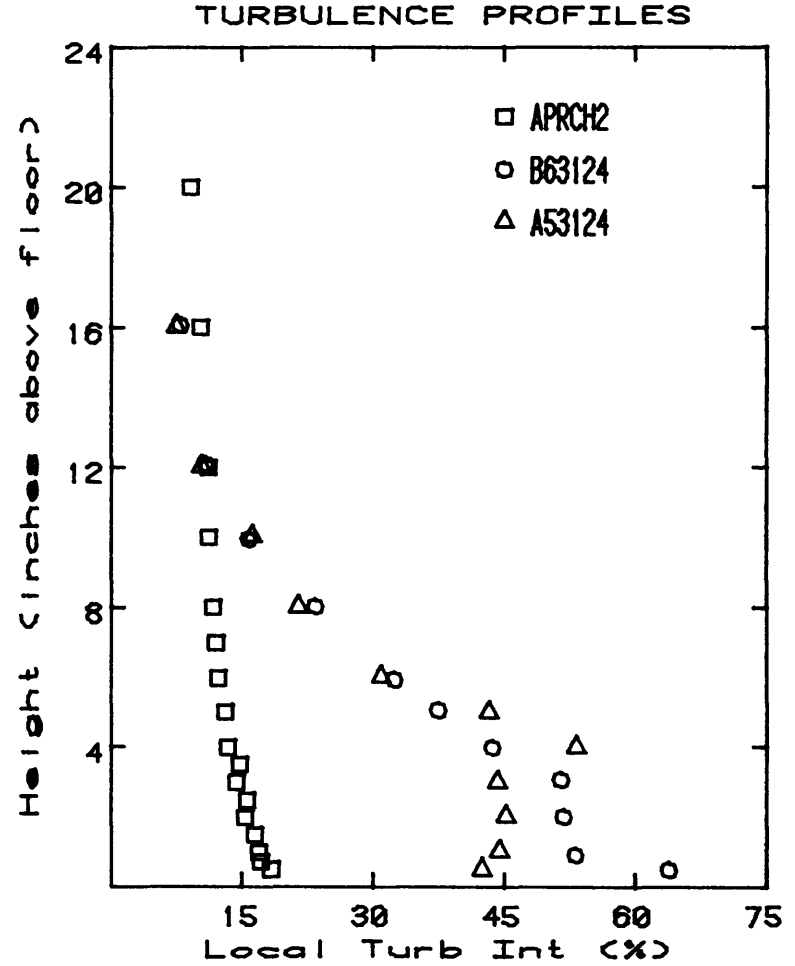
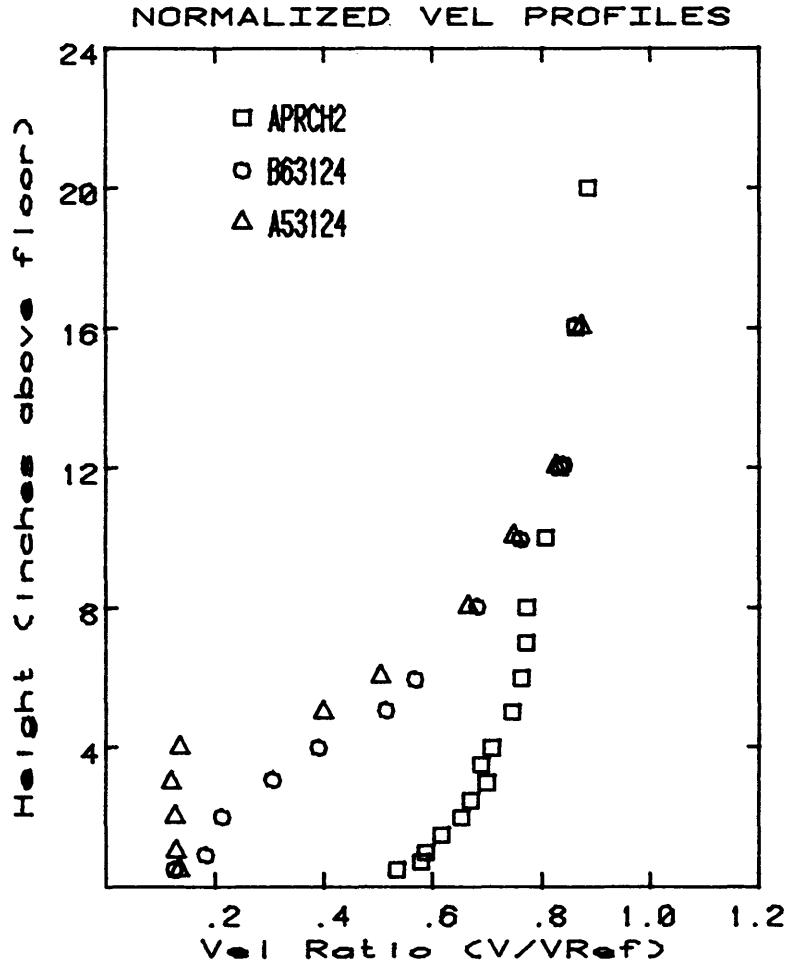
Graph # 96



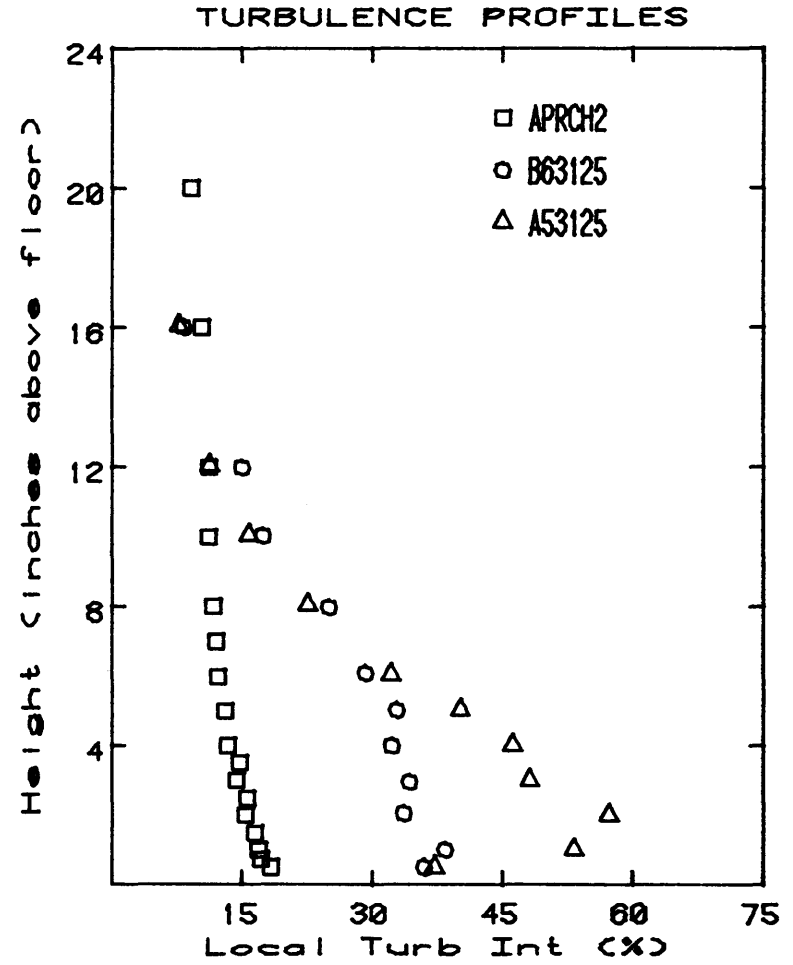
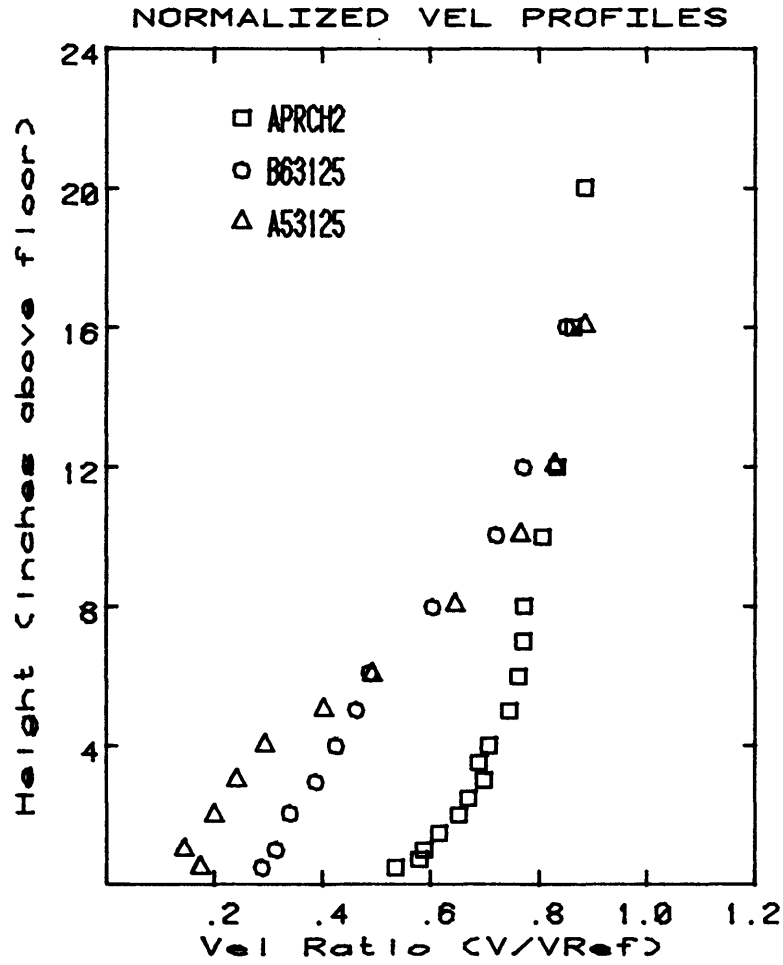
Graph # 97



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



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	-.153	.048
FENCE CONFIGURATION =	5	.060	.020
NO FENCE	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 =	5	.087	.034
NO FENCE	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 =	5	.115	.015
20FT AT 52FT	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 =	5	.109	.018
15FT AT 52FT	6	.037	-.041
	7	.059	.034
	8	.065	.050

FILENAME = 81313H	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 = 81322H	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 = 81330H	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 = 81332H	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 = 82315H	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 =	5	.185	.028
15FT AT 52FT → SHORT CORNER FENCE	6	.394	-.010
	7	.439	.076
	8	.423	.097

FILENAME = 82322H	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 =	5	-.179	.013
15FT AT 52FT	6	.083	-.000
	7	-.075	.019
	8	-.083	.024

FILENAME = 83110H	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 =	5	.998	-.188
NO FENCE	6	.721	.208
	7	.442	-.054
	8	.765	.036

FILENAME = 83210H	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 =	5	.845	.024
NO FENCE	6	.642	.059
	7	.466	.041
	8	.708	.116

FILENAME = 83310H	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 = 83311H	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 = 83312H	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 = 83313H	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 = B3315H	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 = B3322H	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 = B3330H	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 = B3332H	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 = 84310H	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	1.018	-.107

FILENAME = 84311H	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 = 84312H	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 = 84313H	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 = STWED	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	.081
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 = WSW	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 =	5	-.135	.005
NO FENCE	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 =	5	-.144	.011
15FT AT 52FT	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 =	5	-.028	-.023
NO FENCE	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 =	5	-.060	-.019
15FT AT 52FT	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 = NO FENCE	5	-.069	.040
	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 = 15FT AT 52FT	5	-.032	.008
	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 = NO FENCE	5	-.119	-.004
	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 = 15FT AT 52FT	5	-.045	-.007
	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

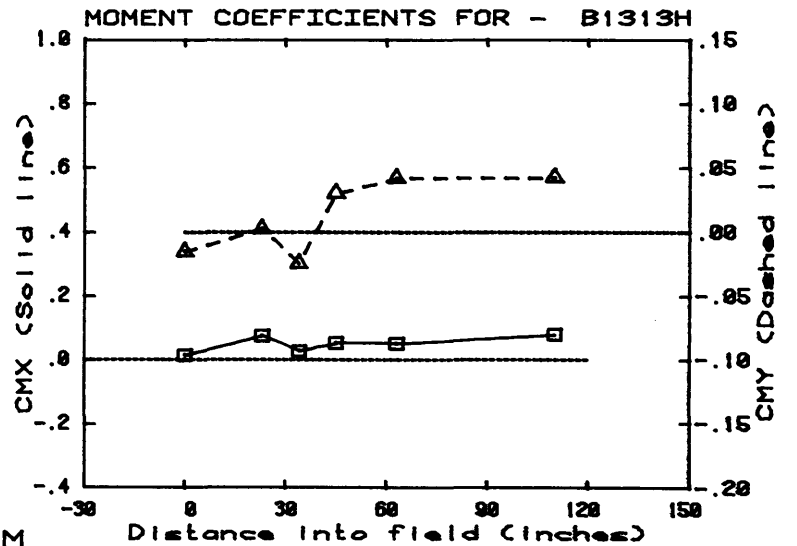
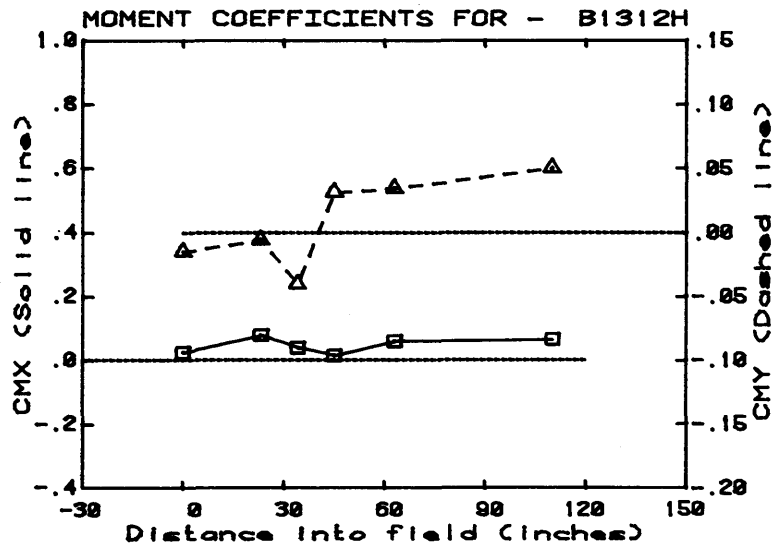
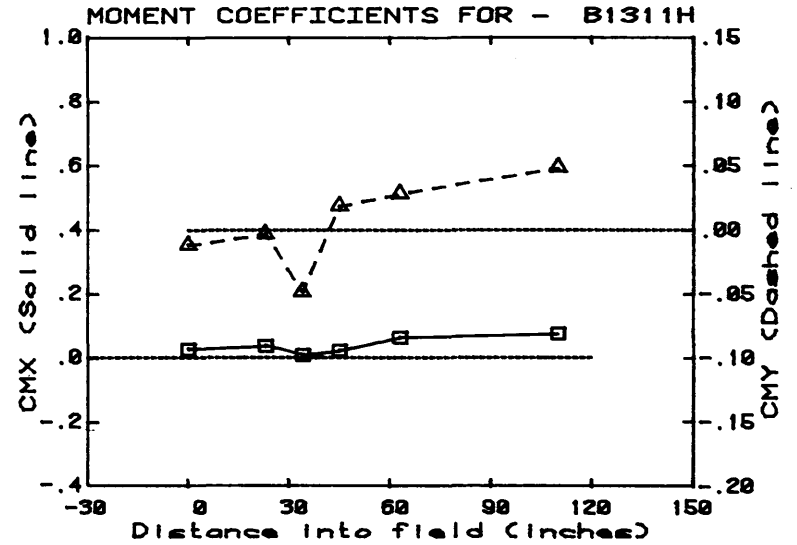
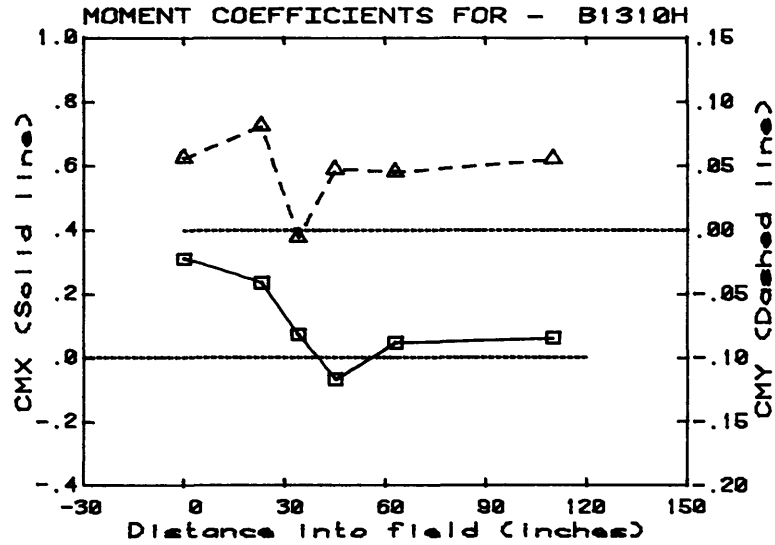
- 1 - 5 or 6 (see Figures 10a through 10l)
- H = Instrumented Heliostat Moment Data File instead of  
a velocity profile

\*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).

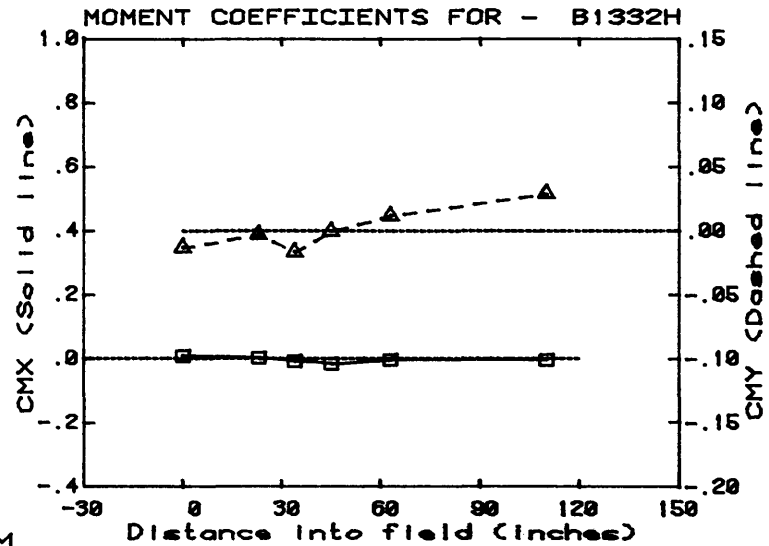
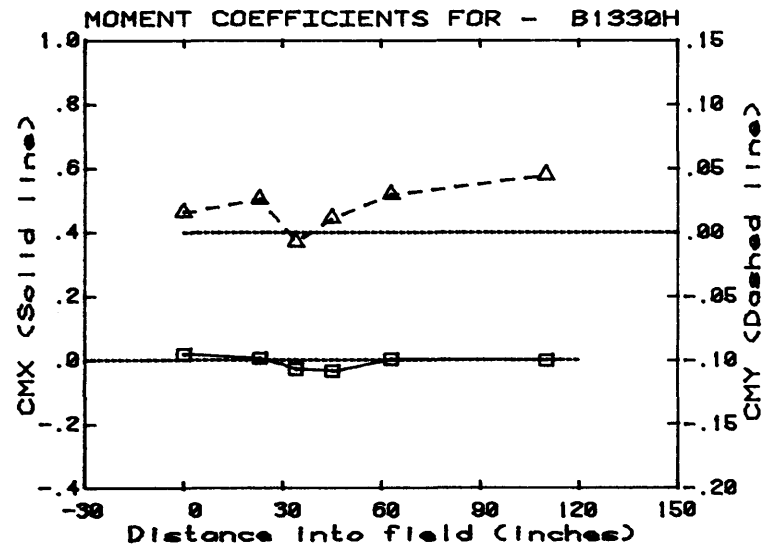
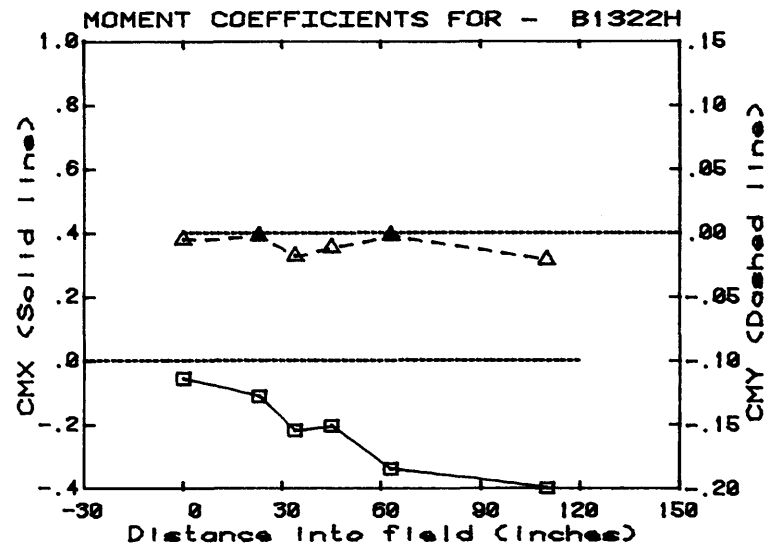
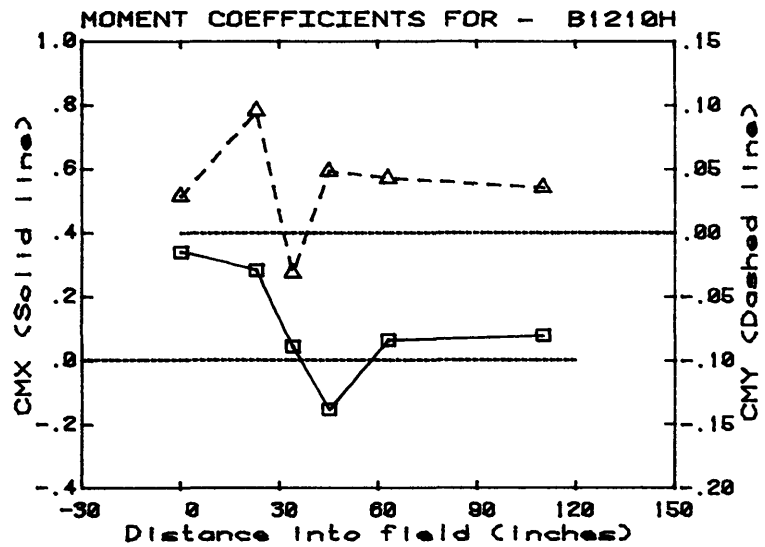
## MOMENTS COEFFICIENT PLOTS

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

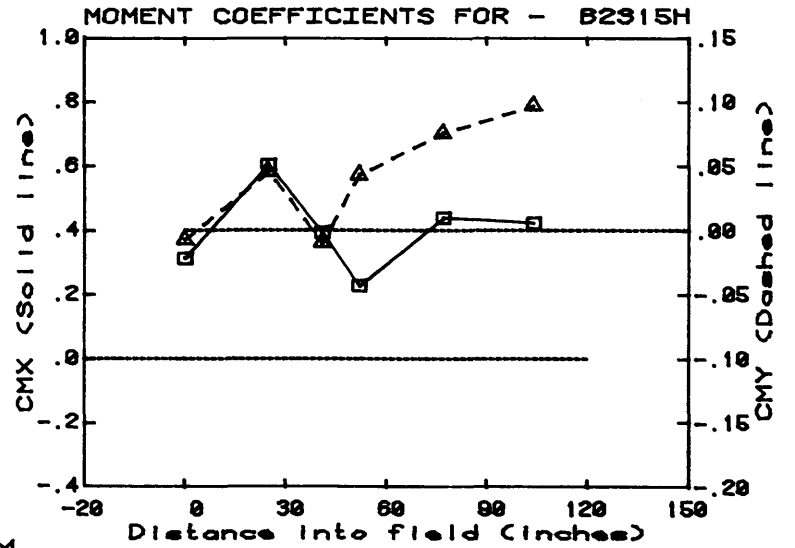
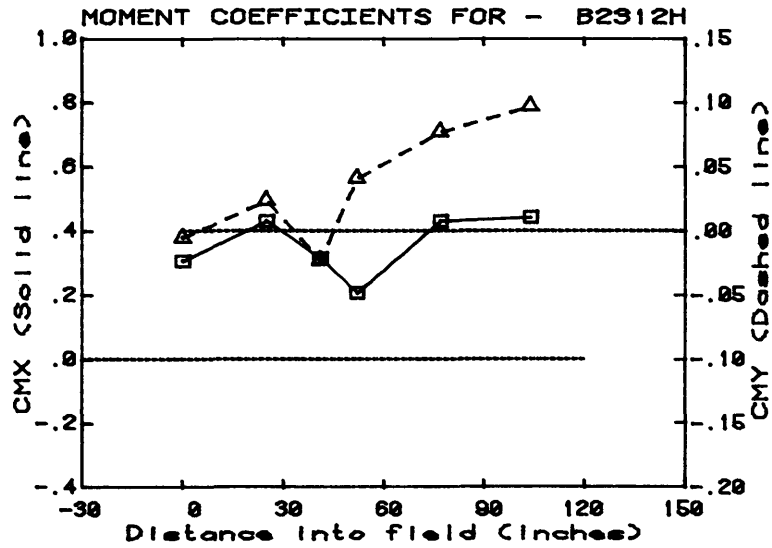
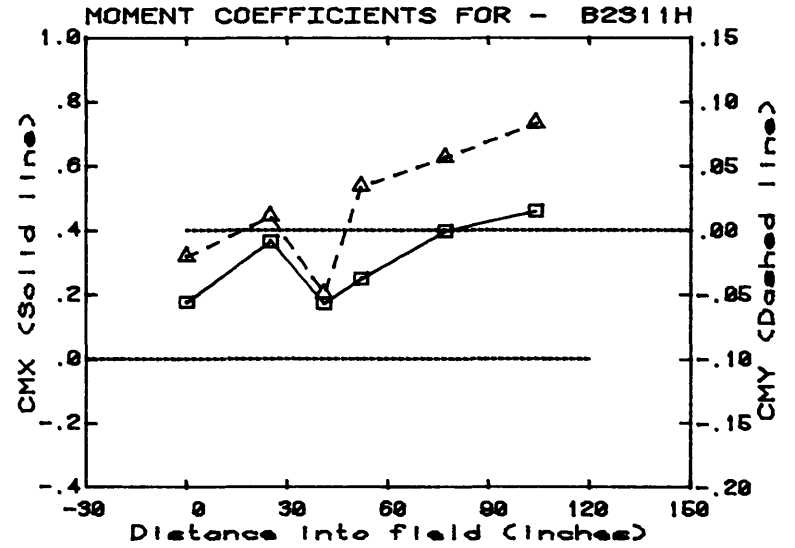
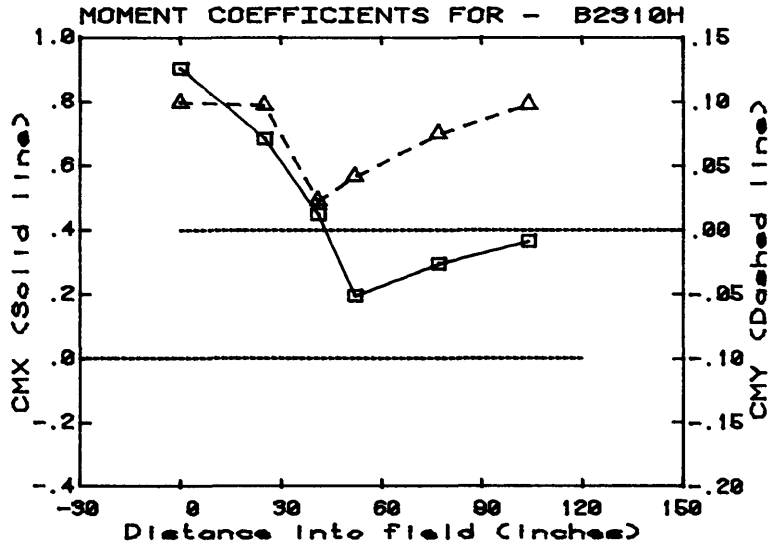


GRAPH 1M

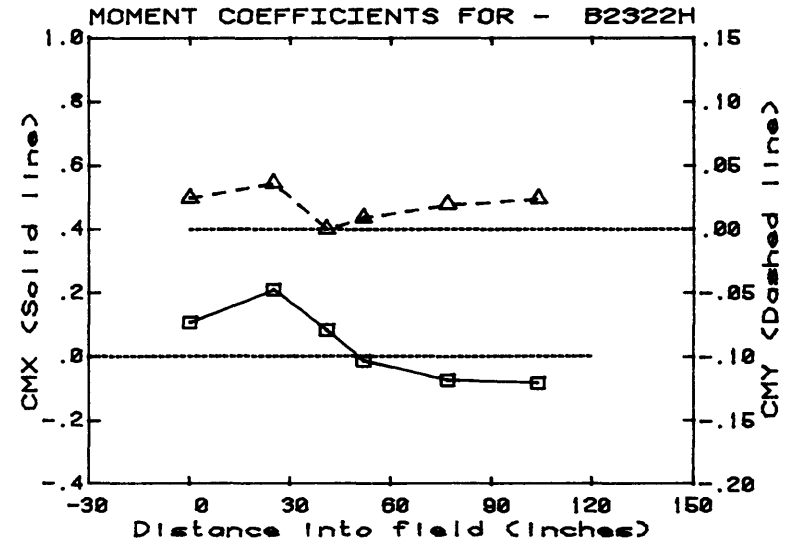
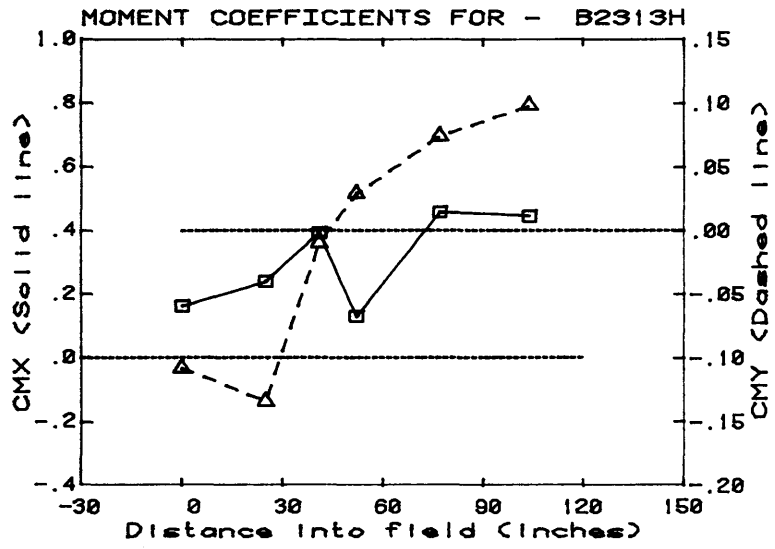


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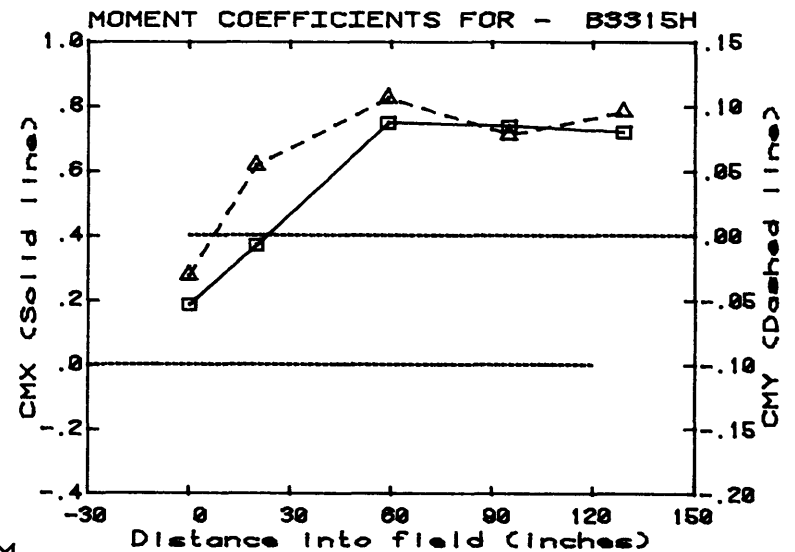
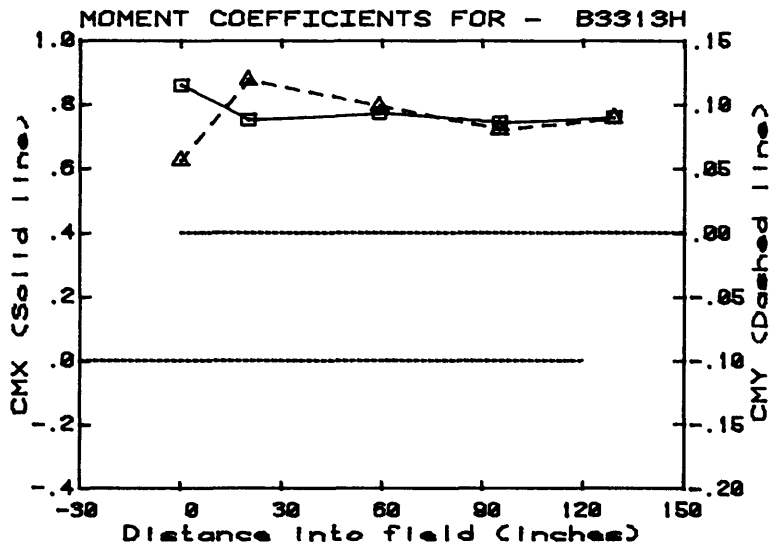
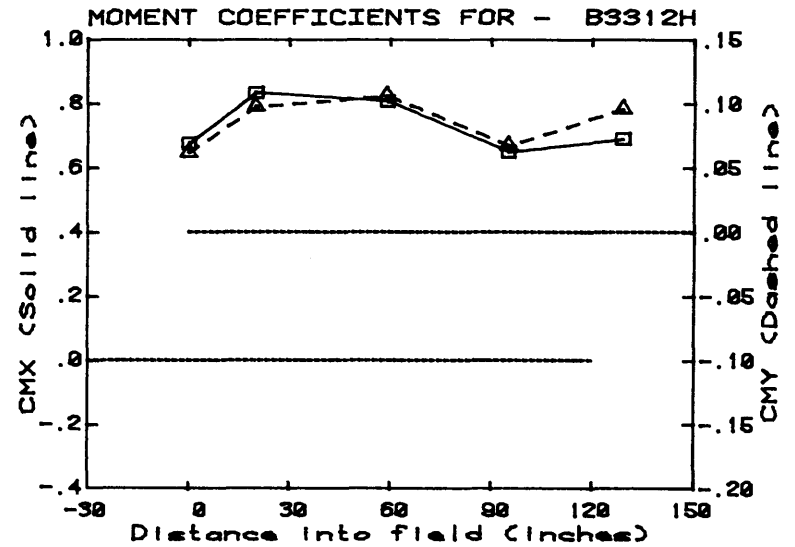
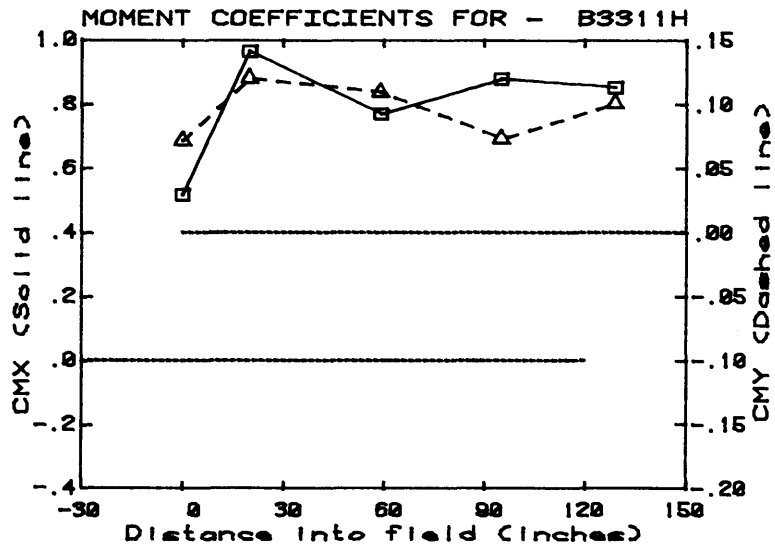




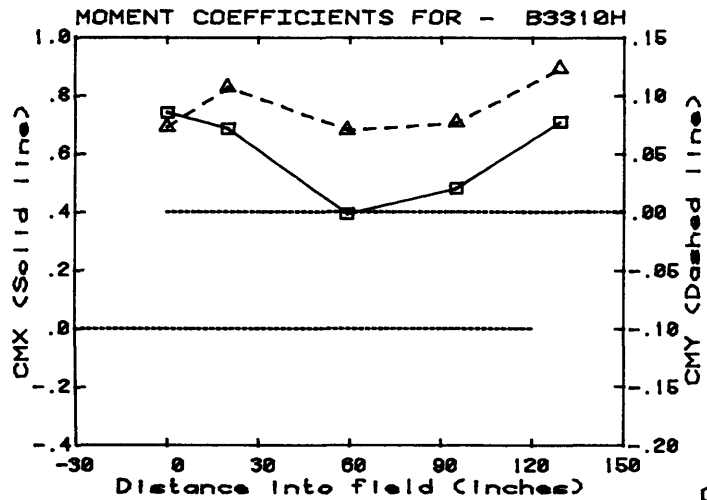
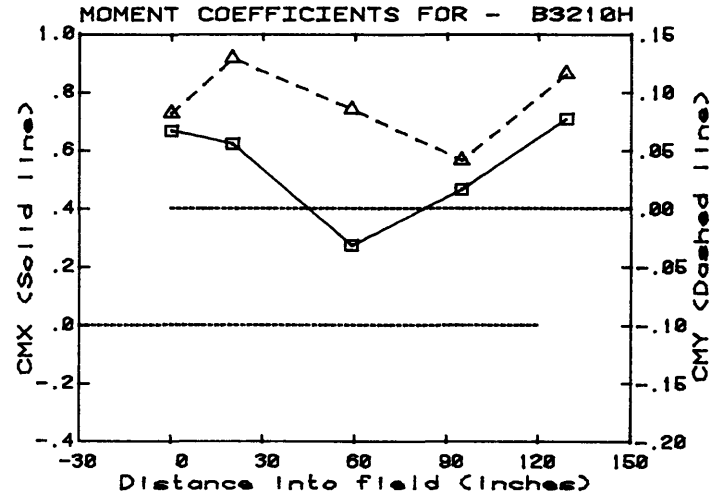
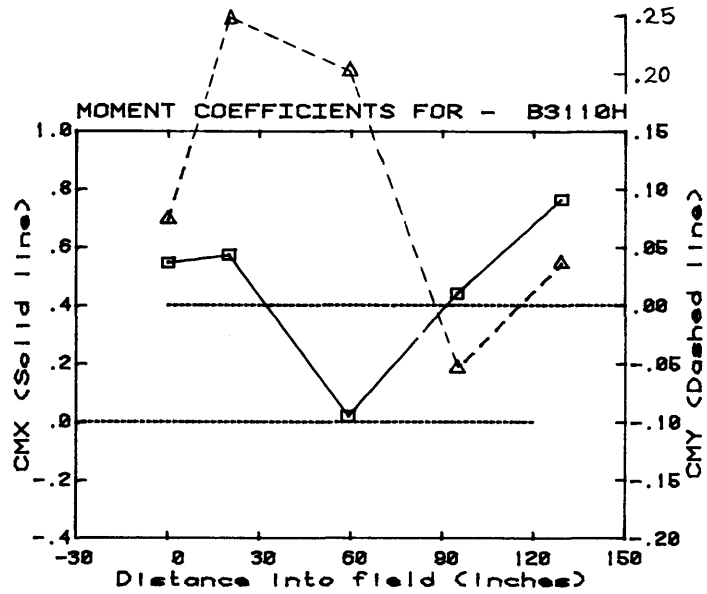
GRAPH 3M



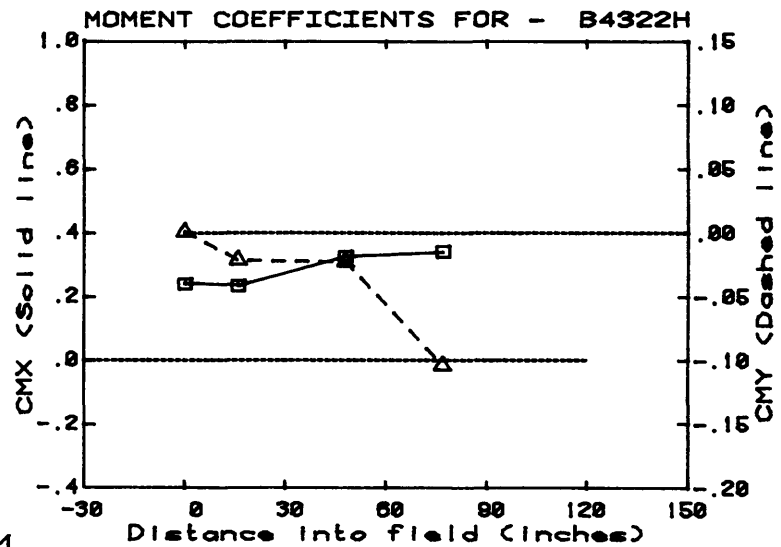
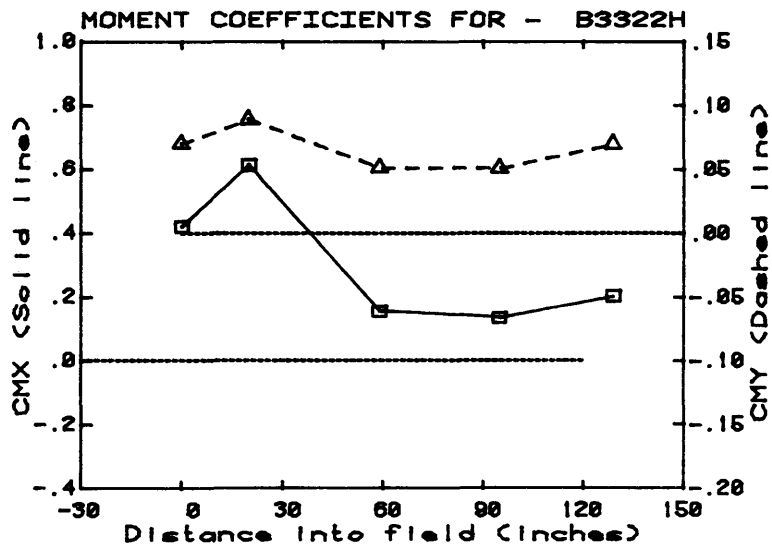
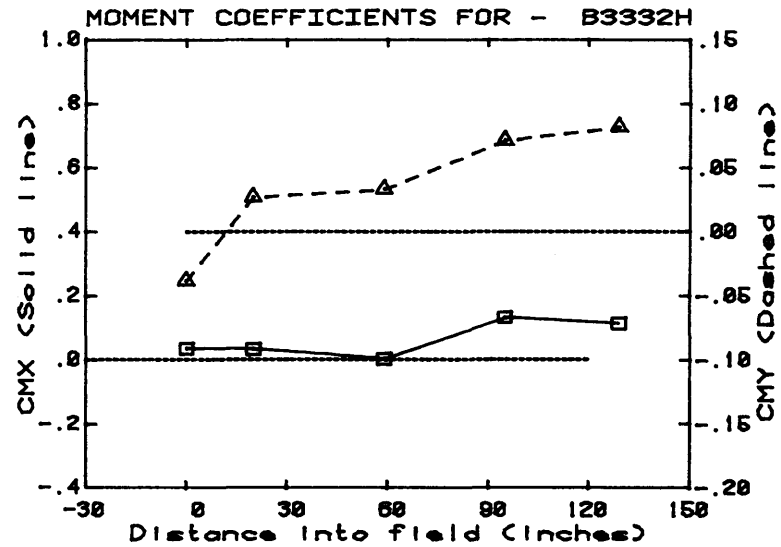
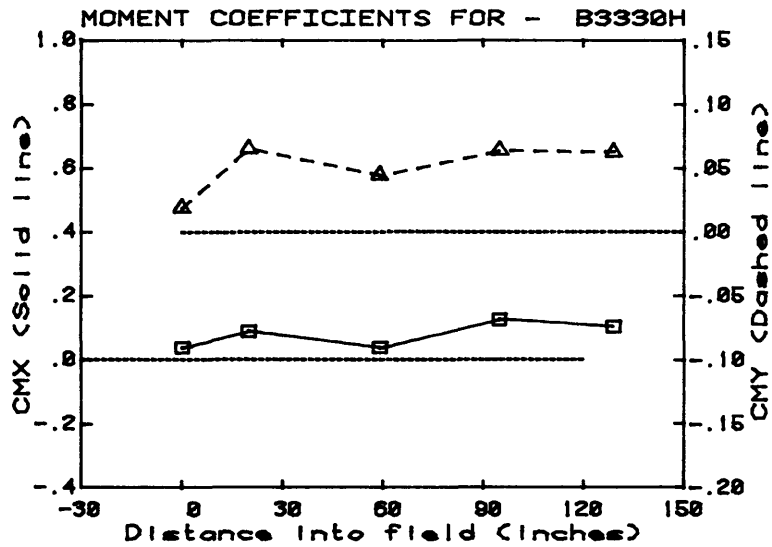
GRAPH 4M



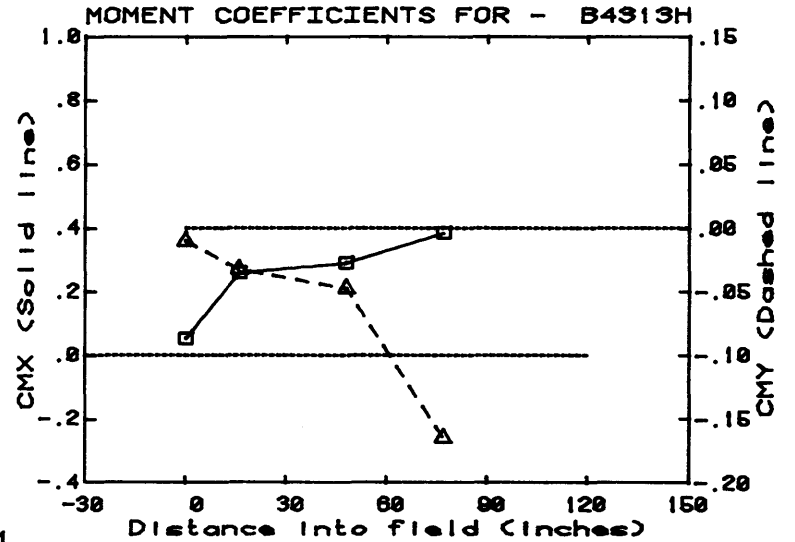
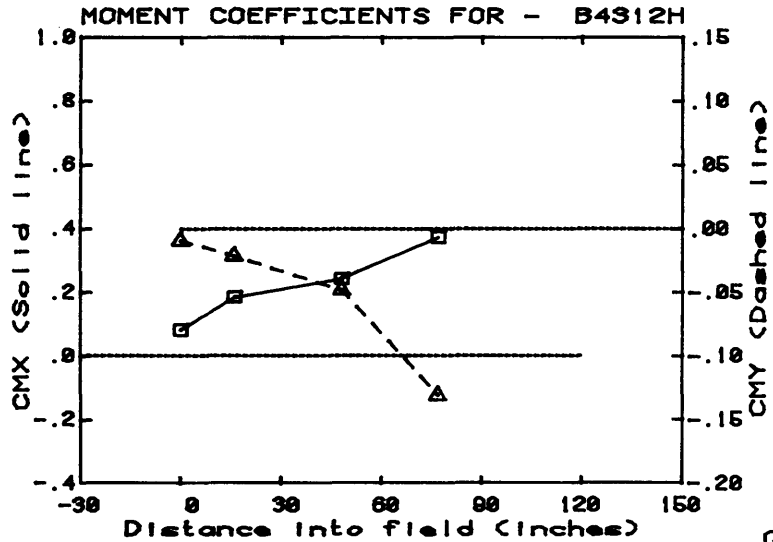
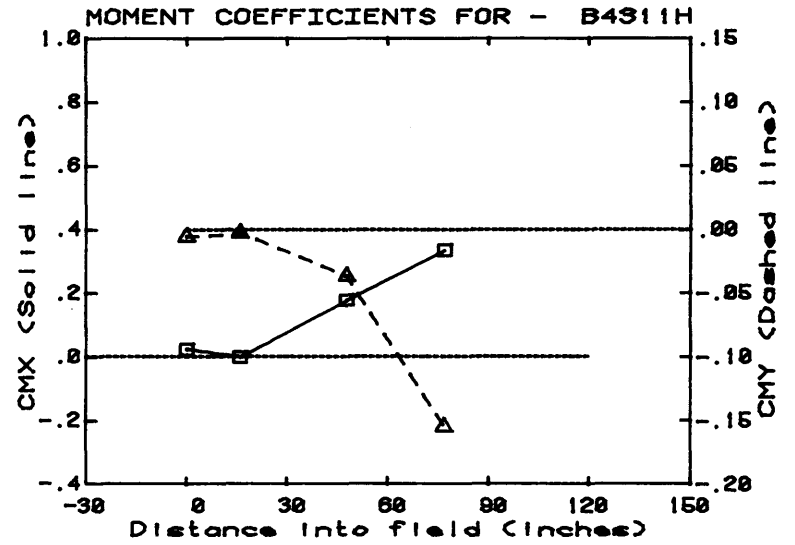
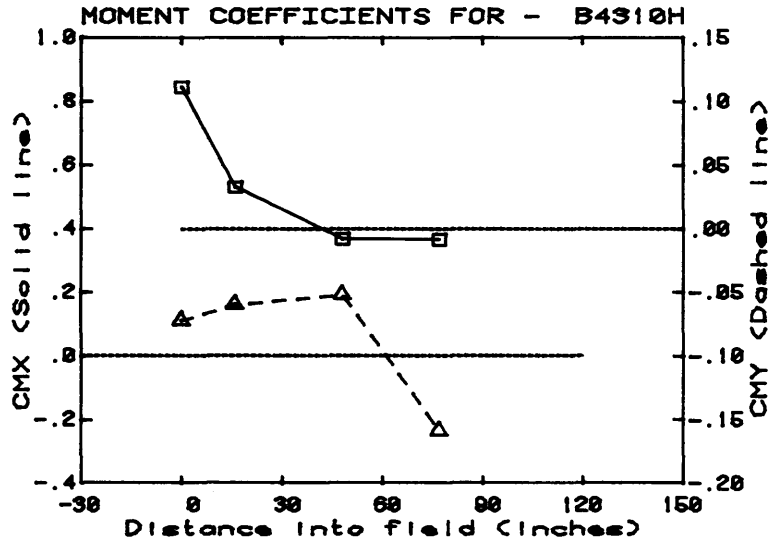
GRAPH 5M



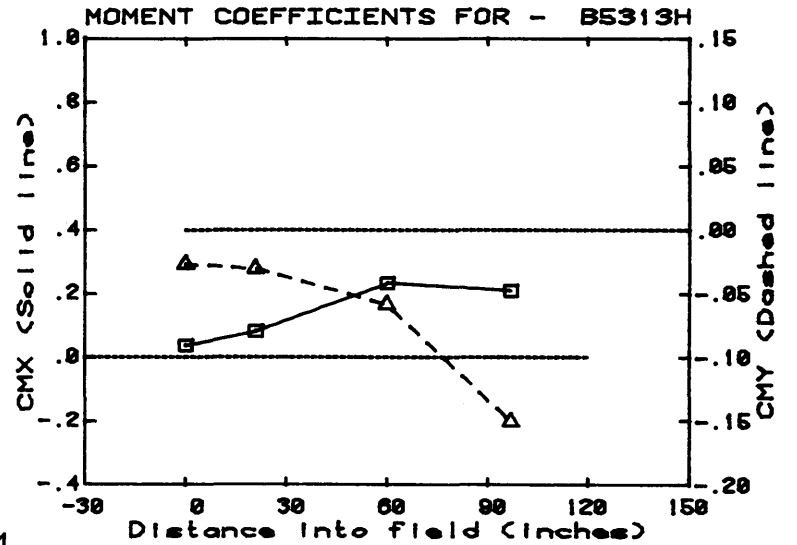
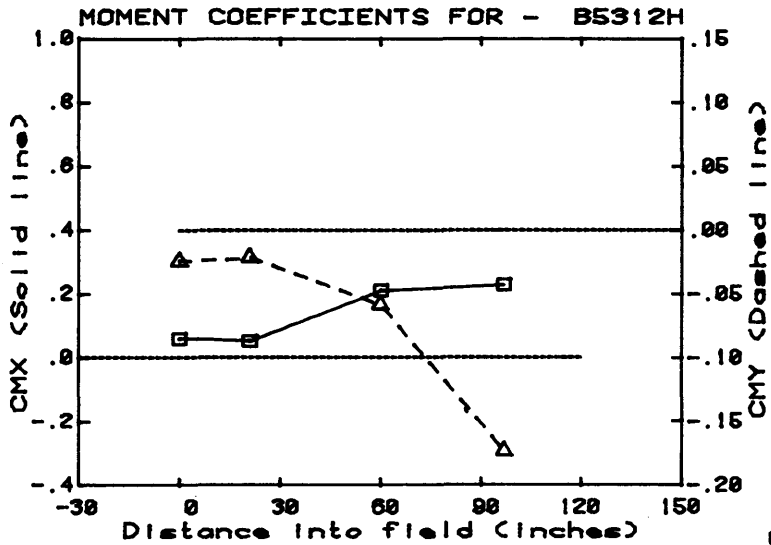
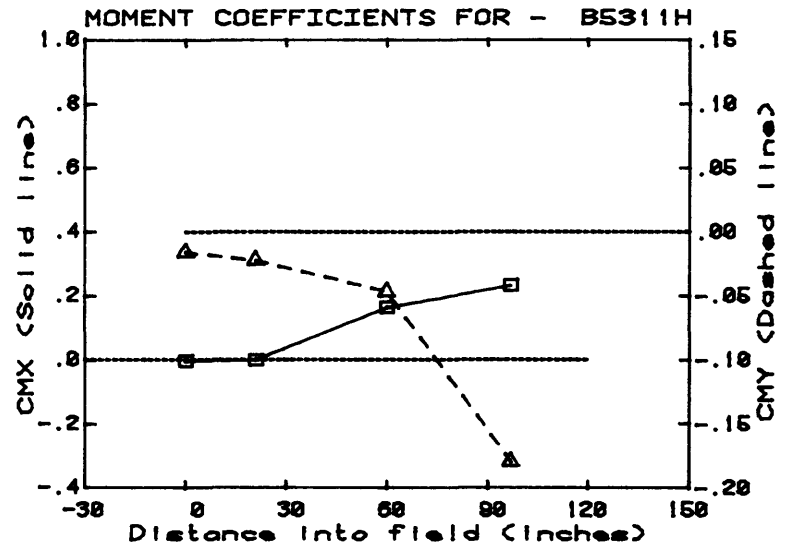
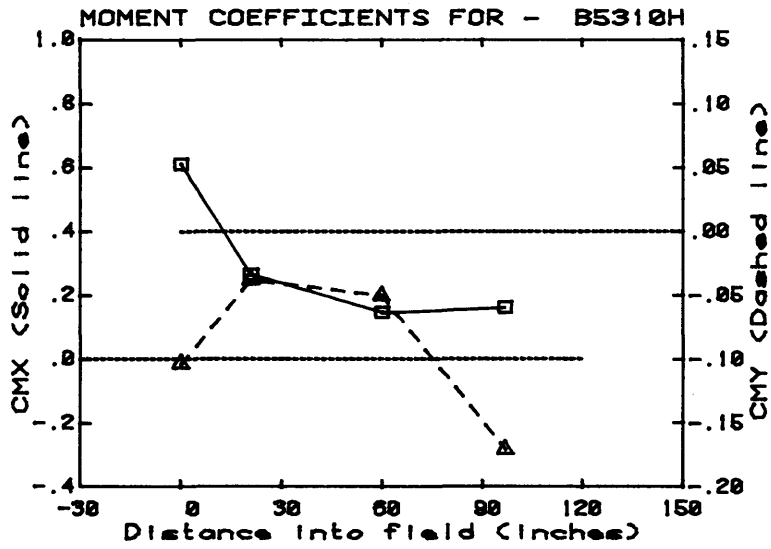
GRAPH 6M



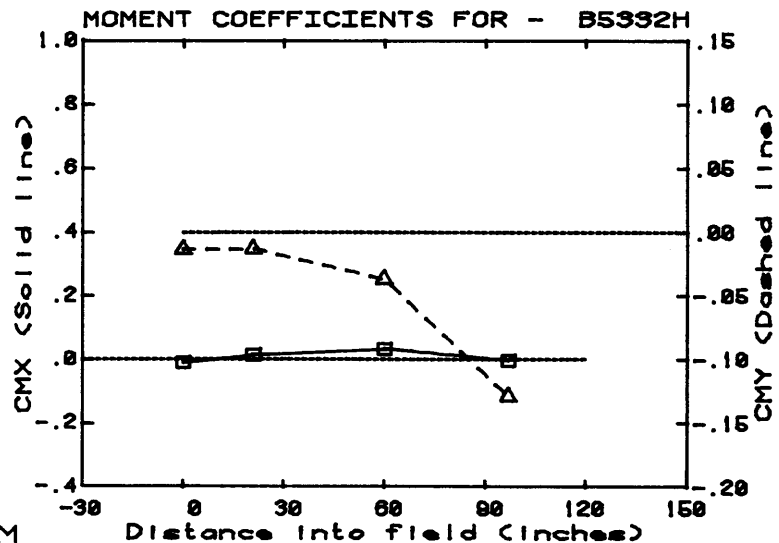
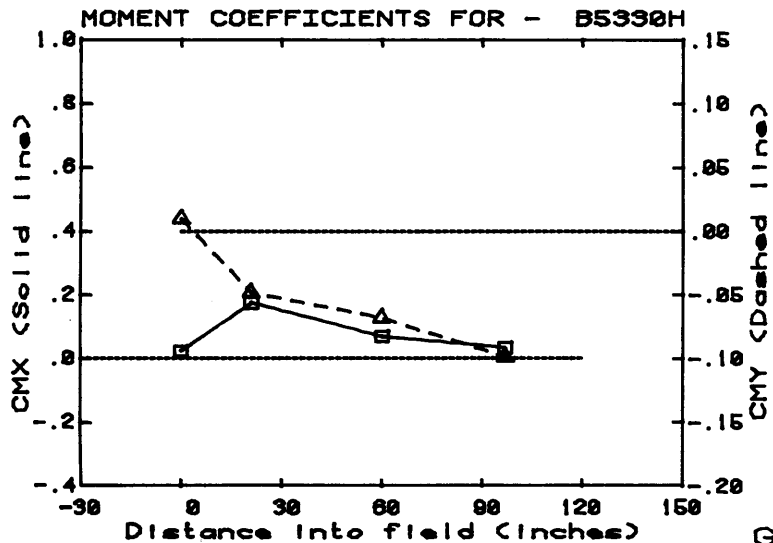
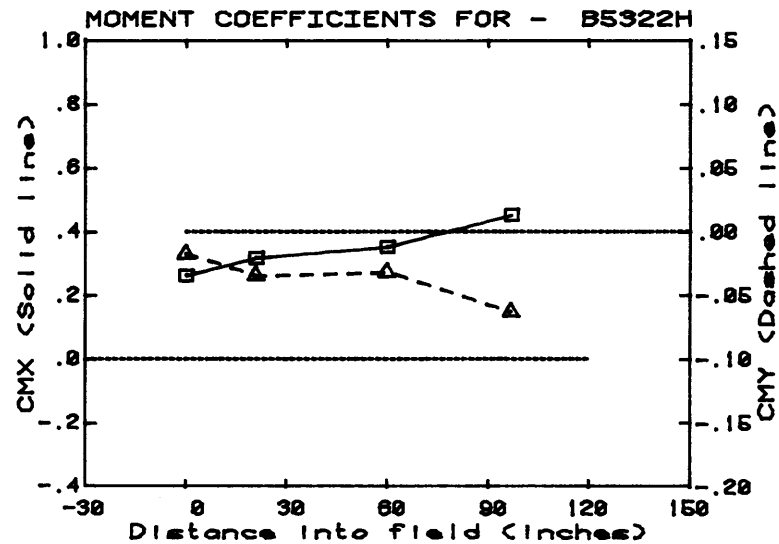
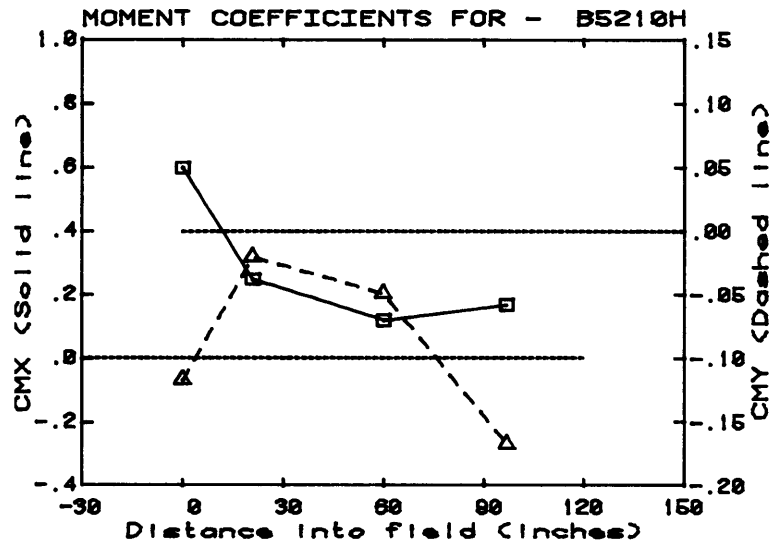
GRAPH 7M



GRAPH 8M

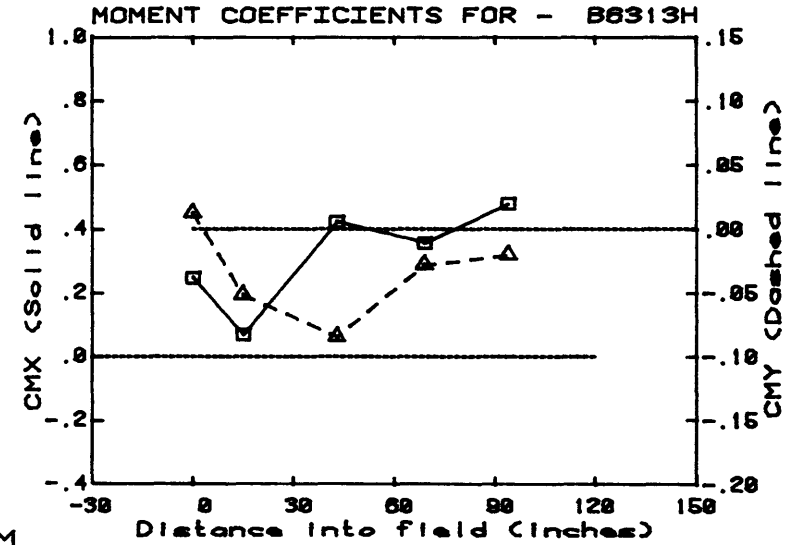
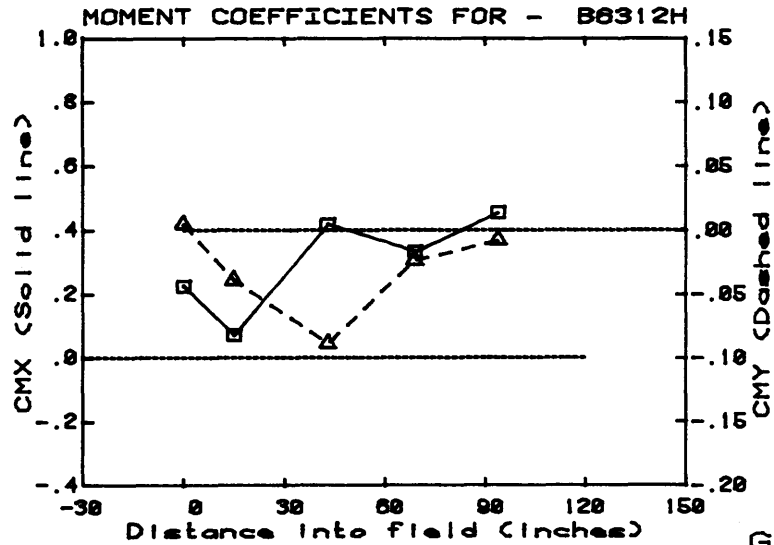
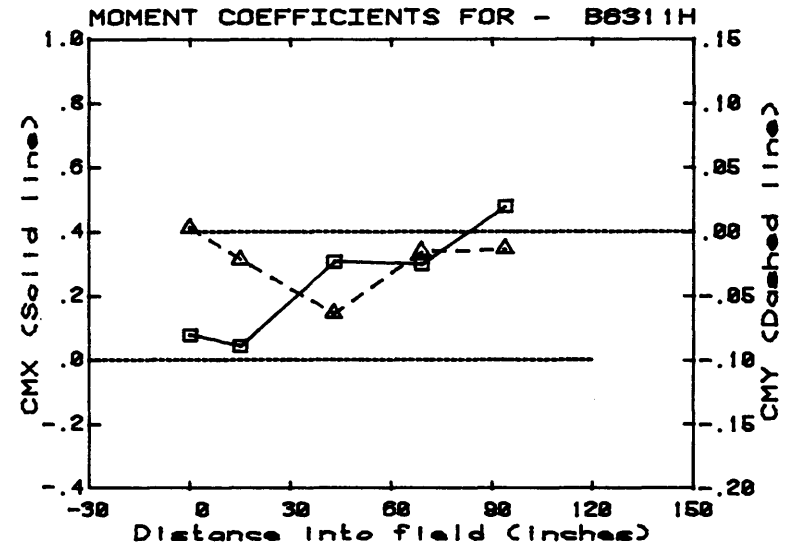
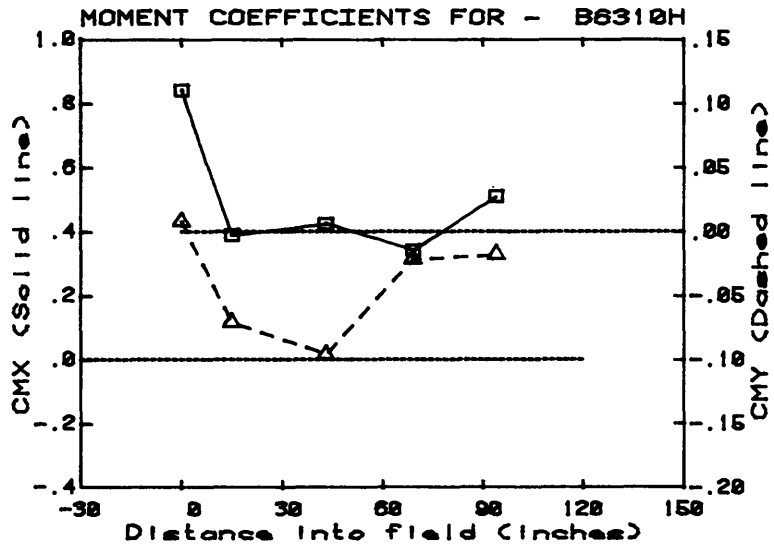


GRAPH 9M

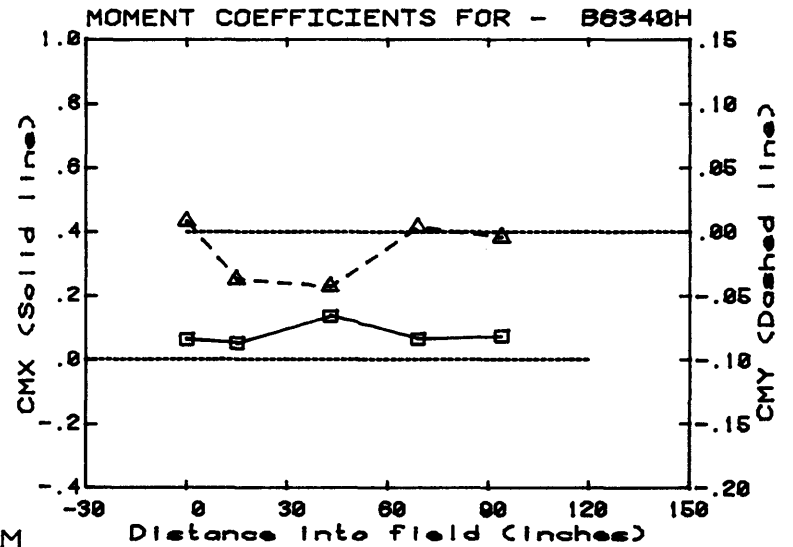
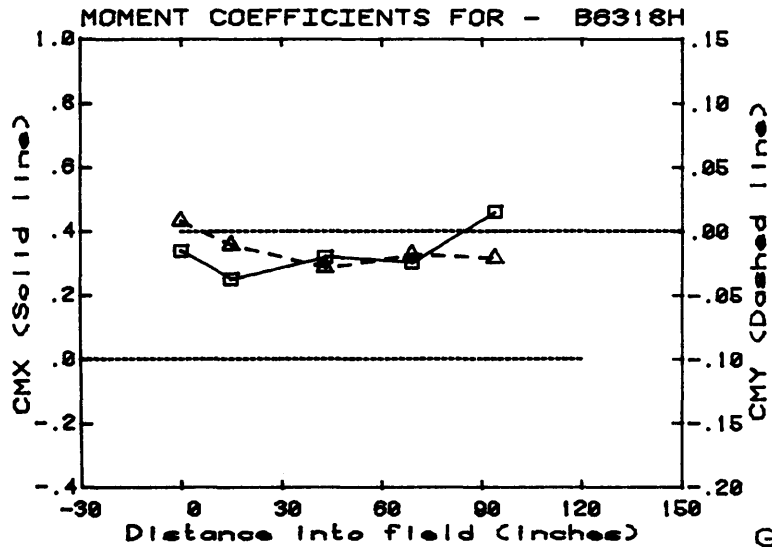
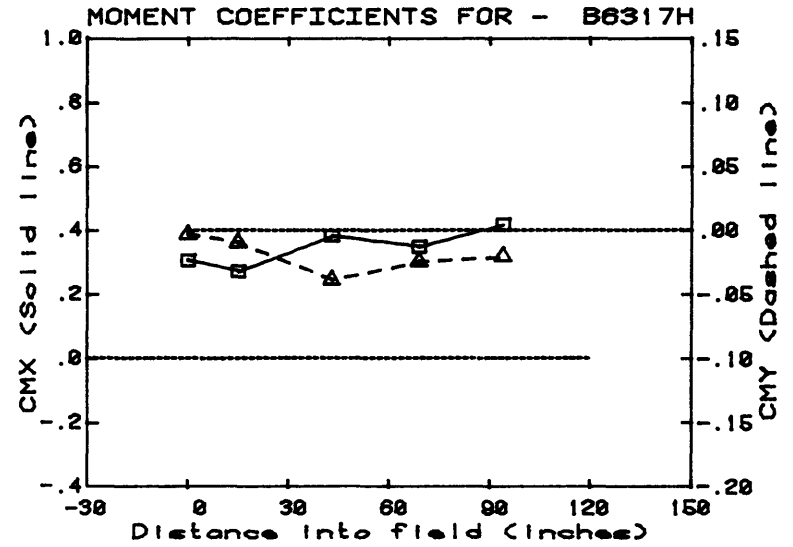
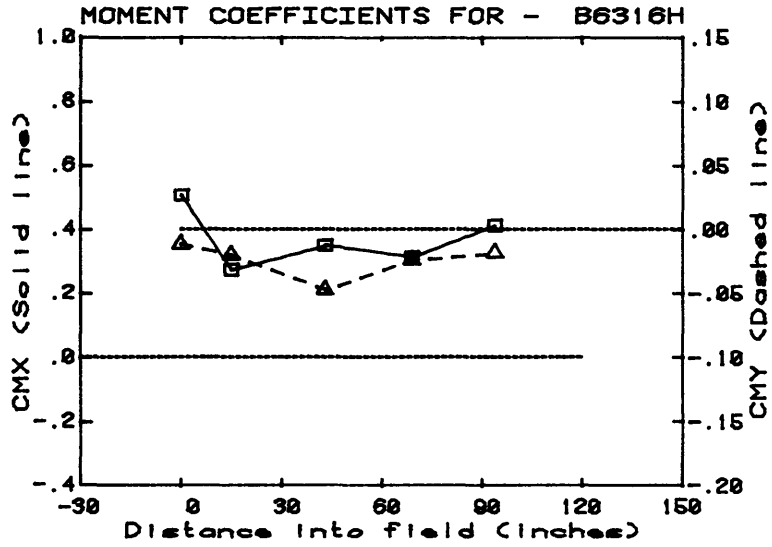


GRAPH 10M

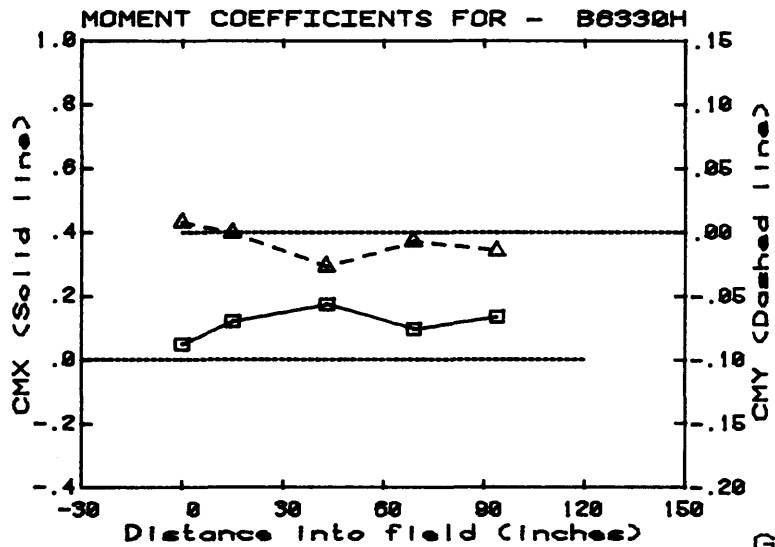
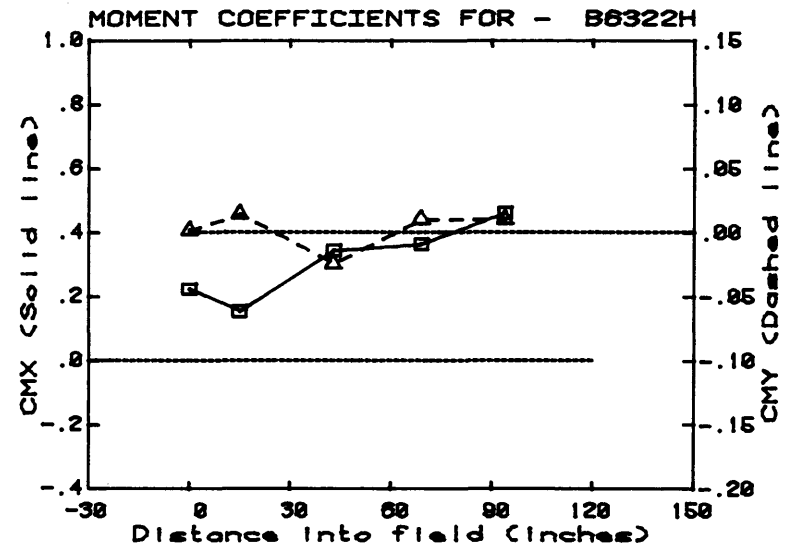
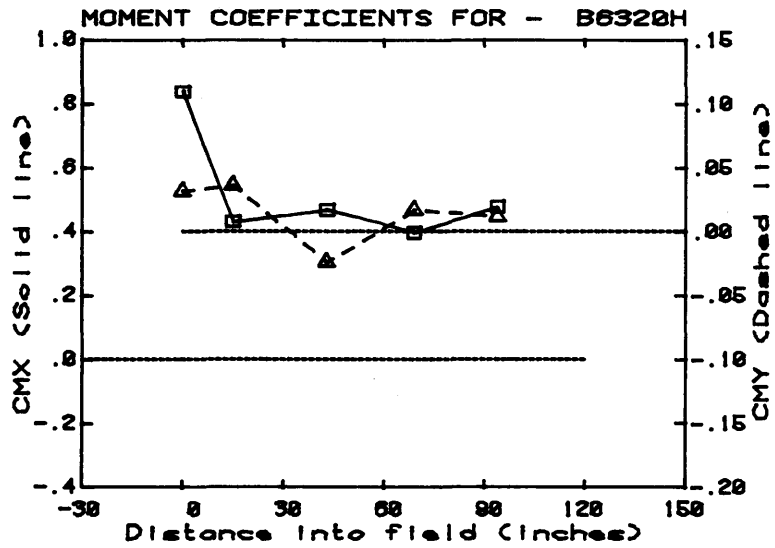




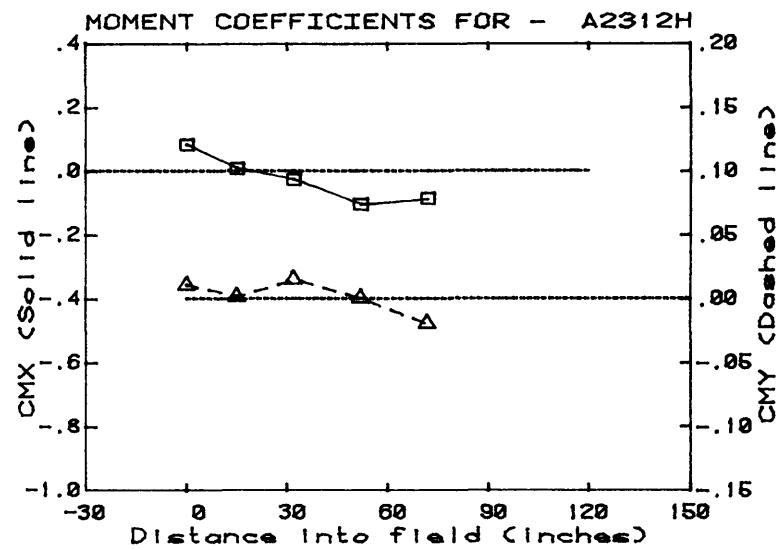
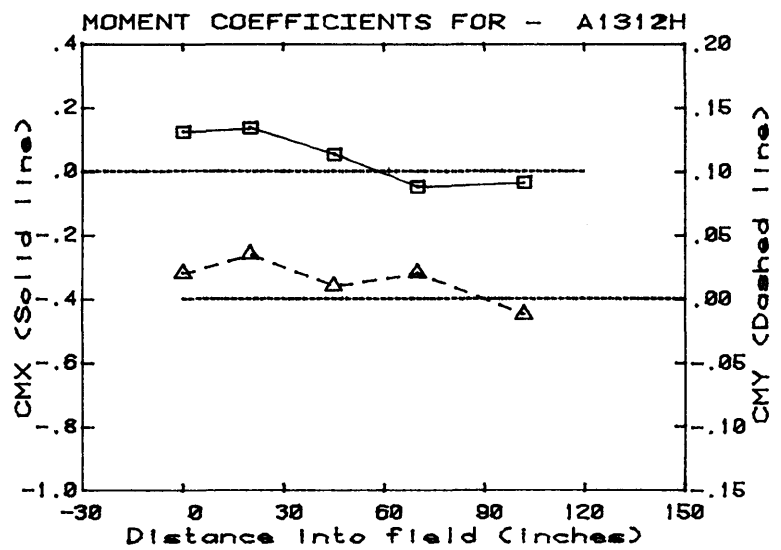
GRAPH 11M



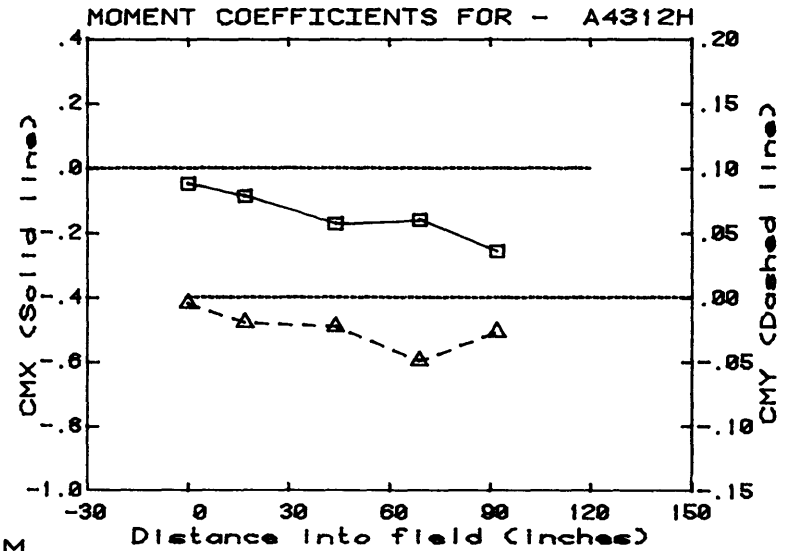
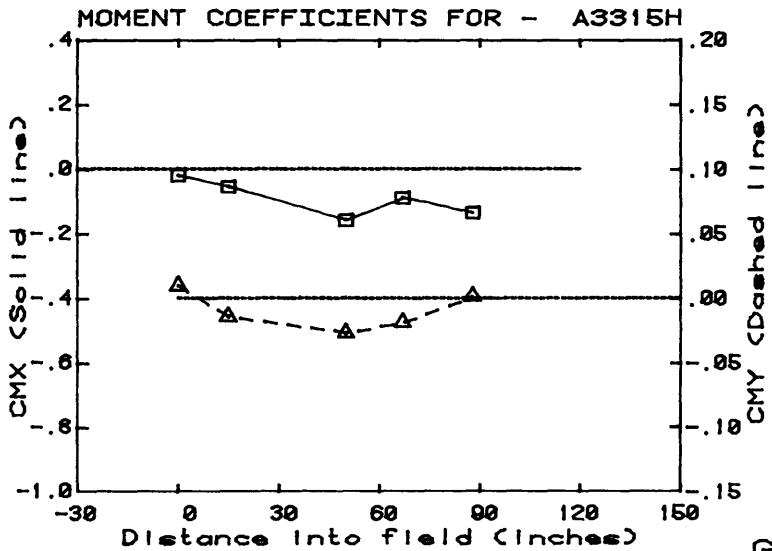
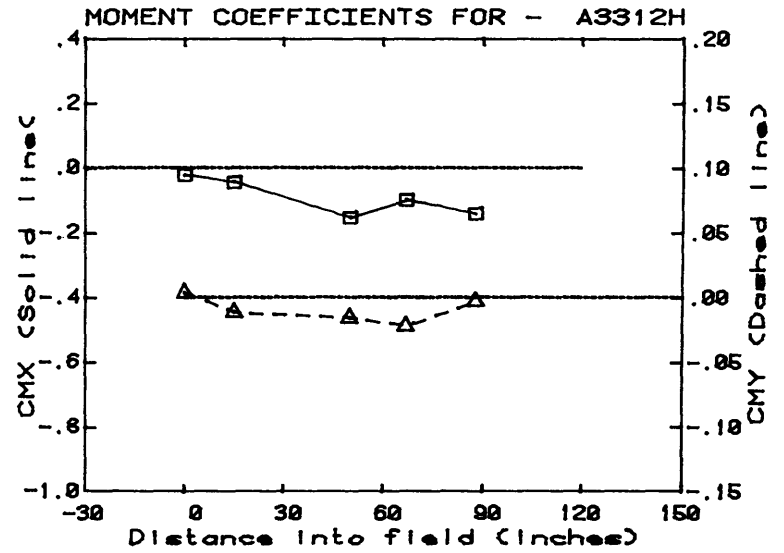
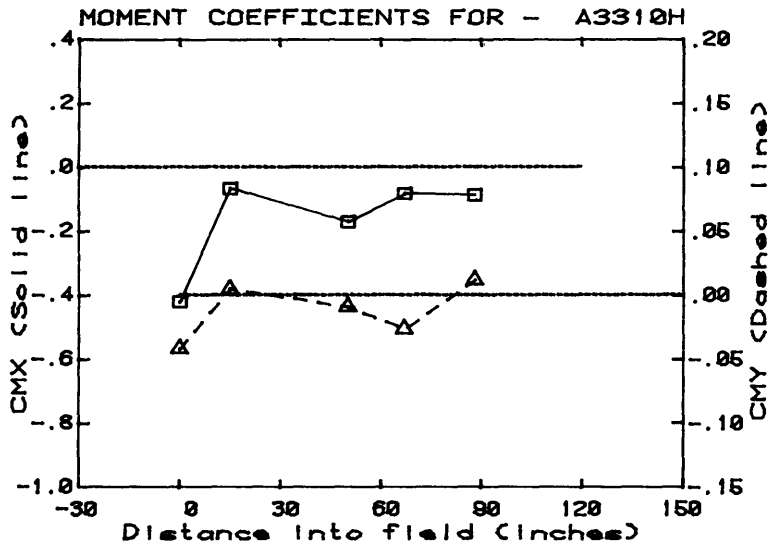
GRAPH 12M



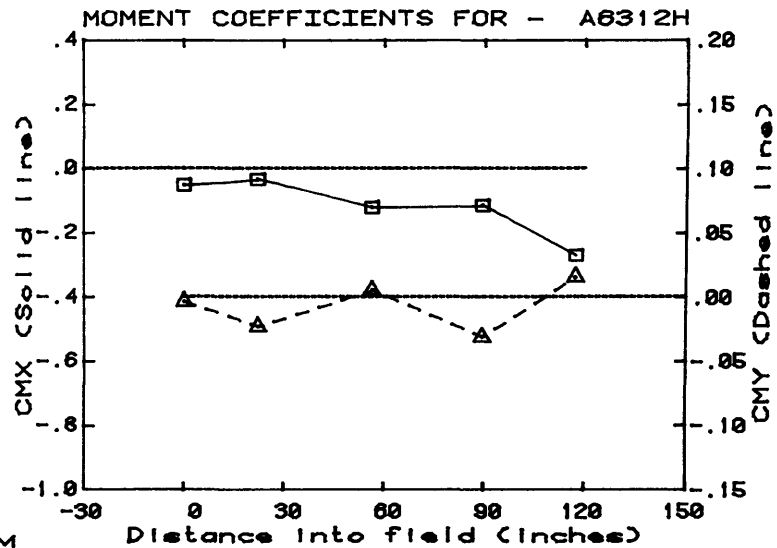
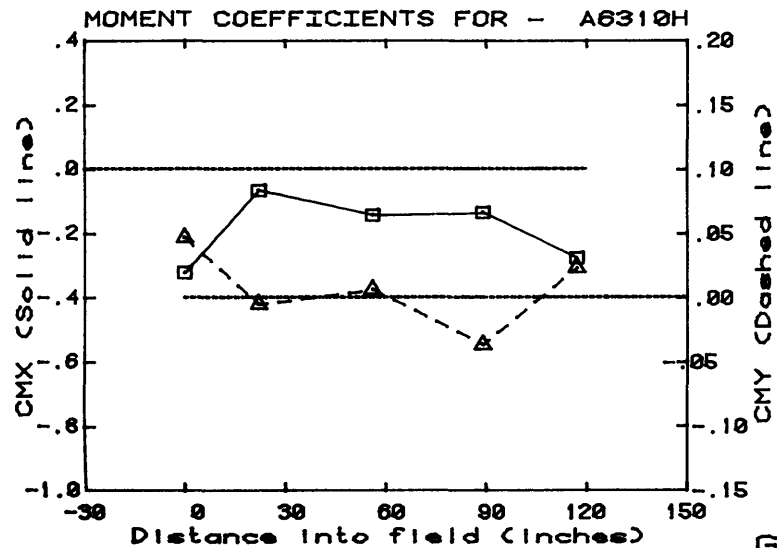
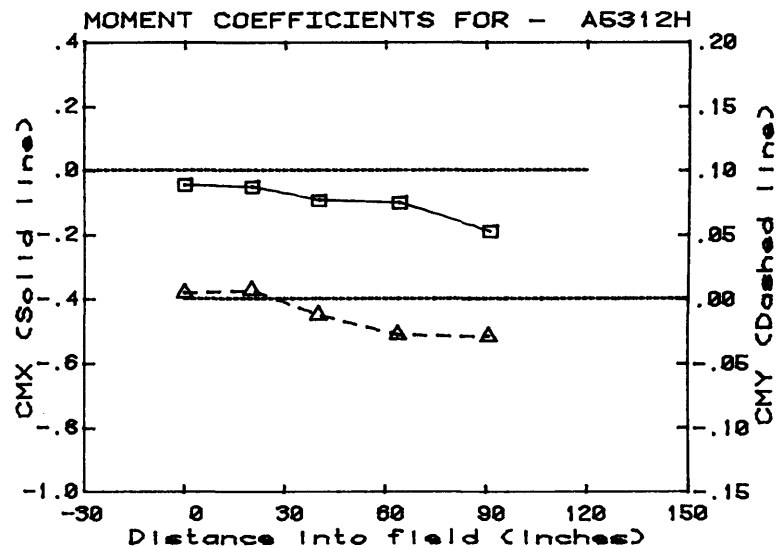
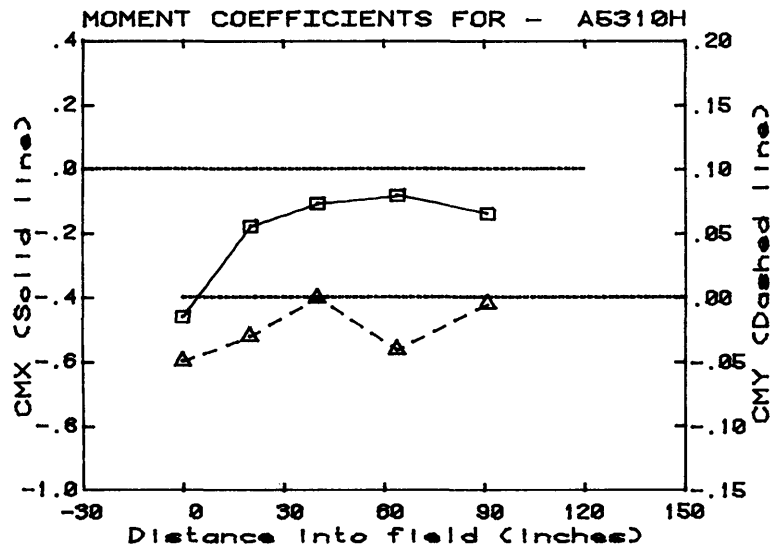
GRAPH 13M



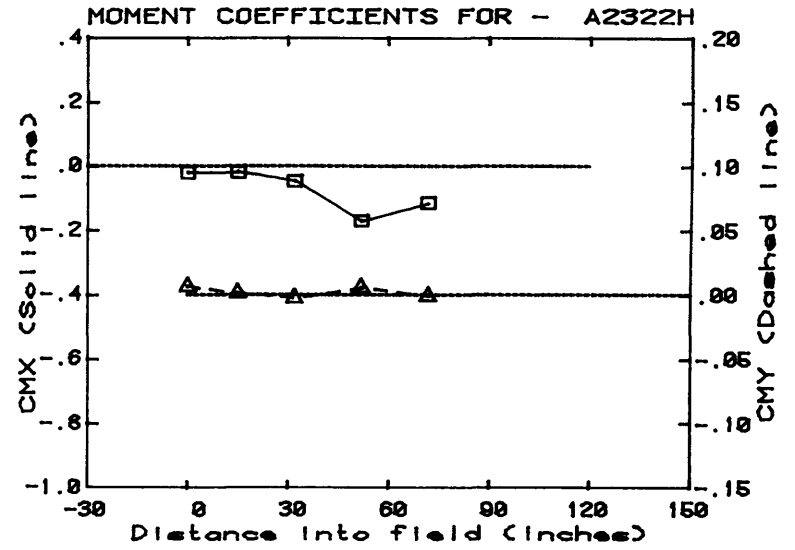
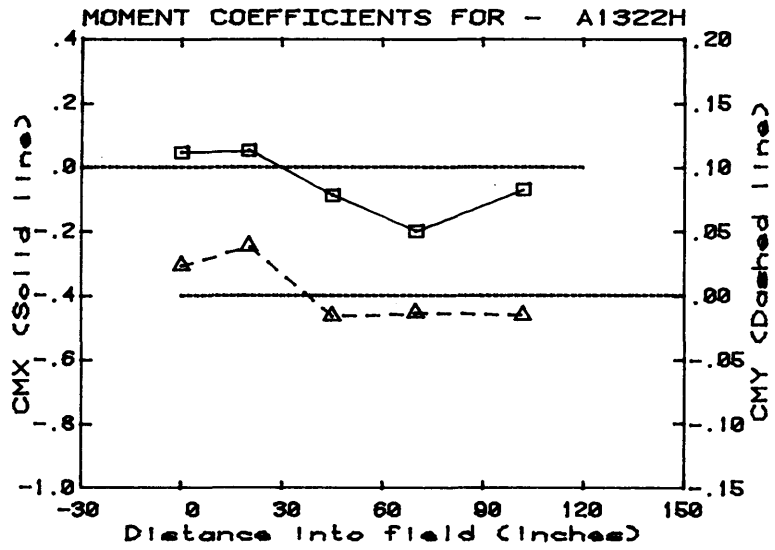
GRAPH 14M



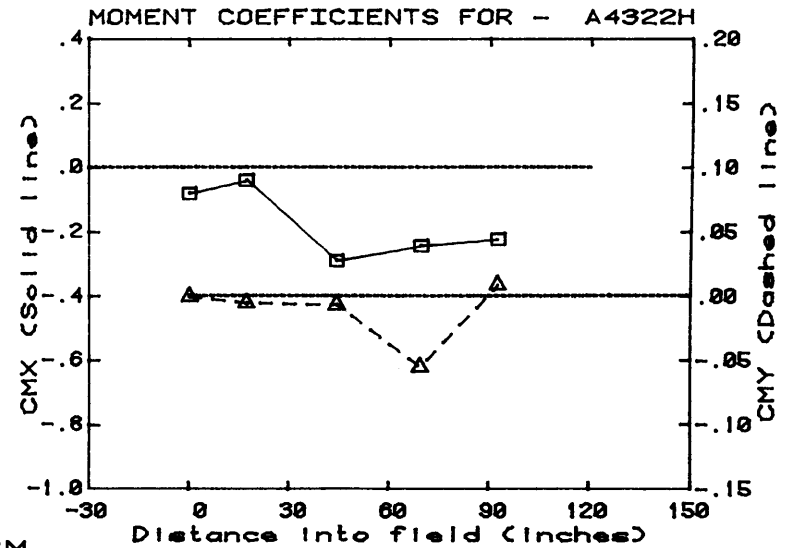
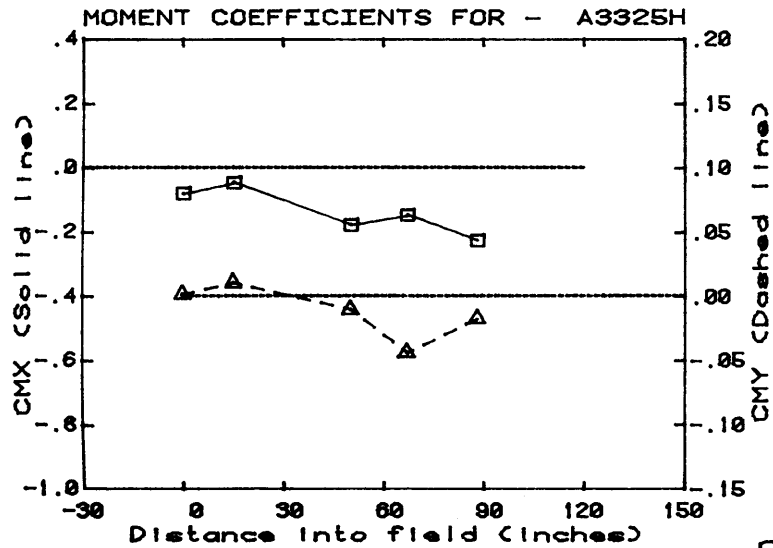
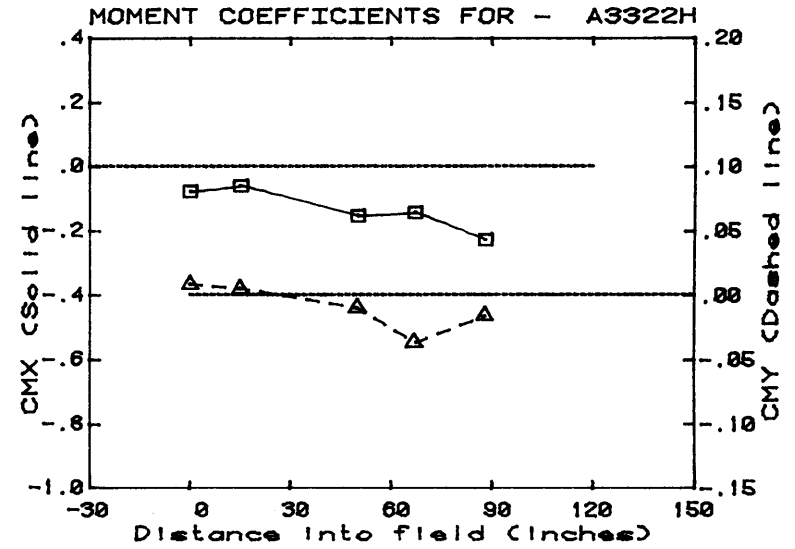
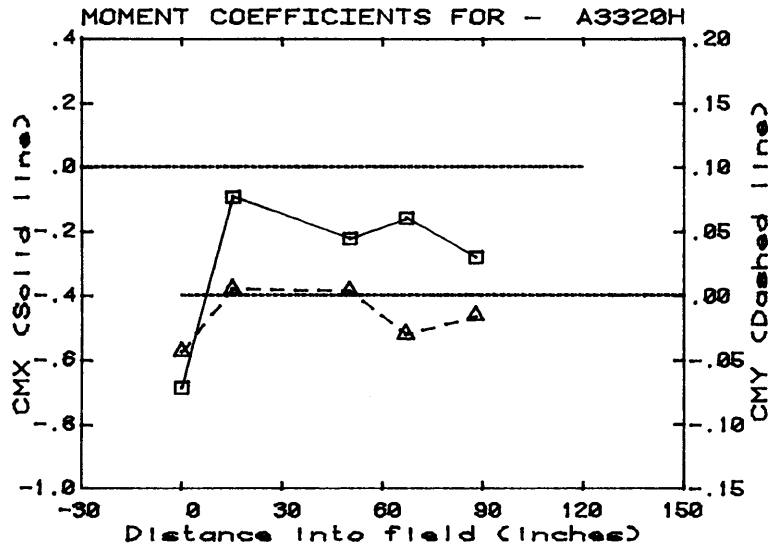
GRAPH 15M



GRAPH 16M

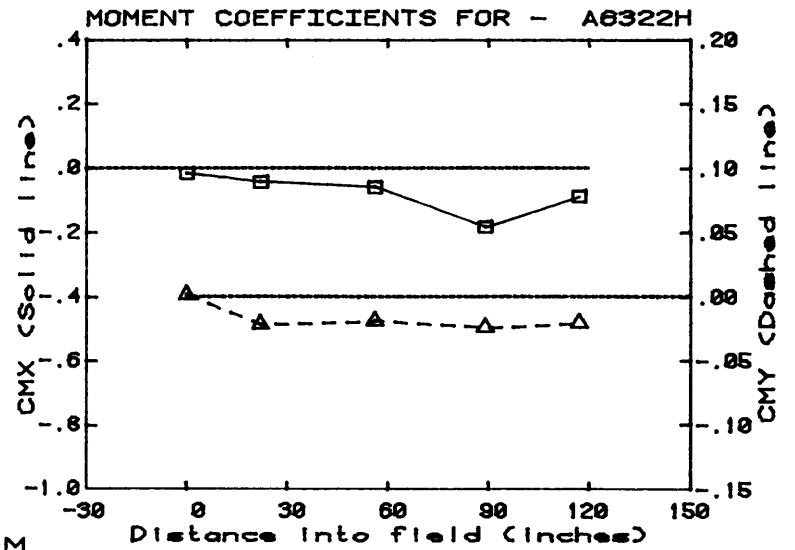
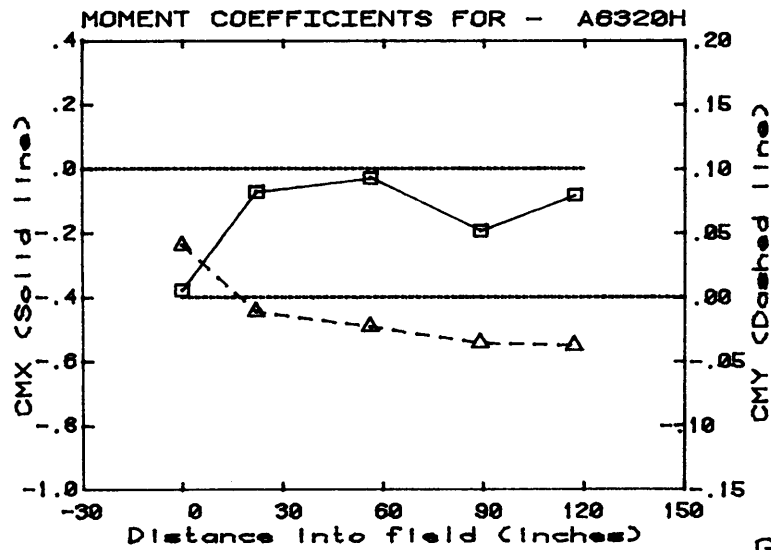
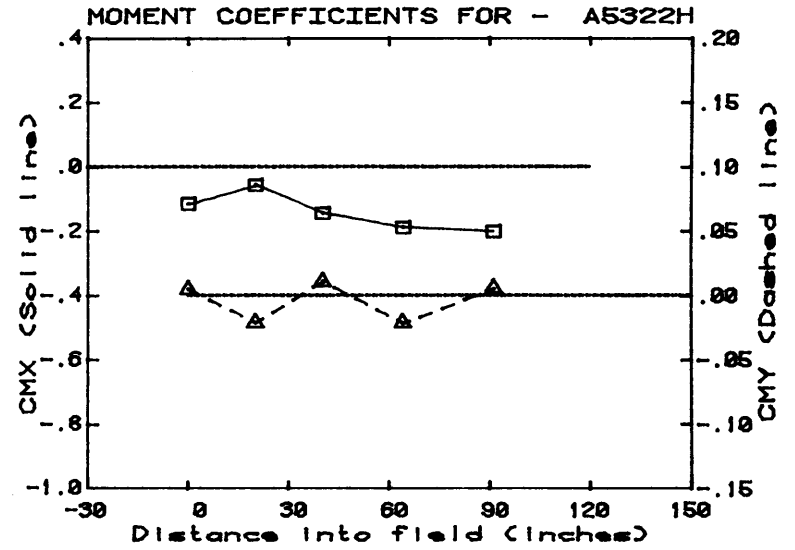
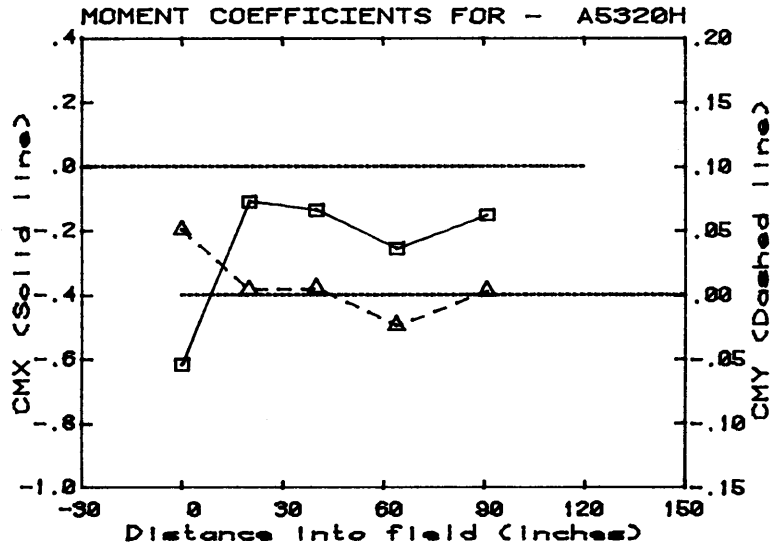


GRAPH 17M

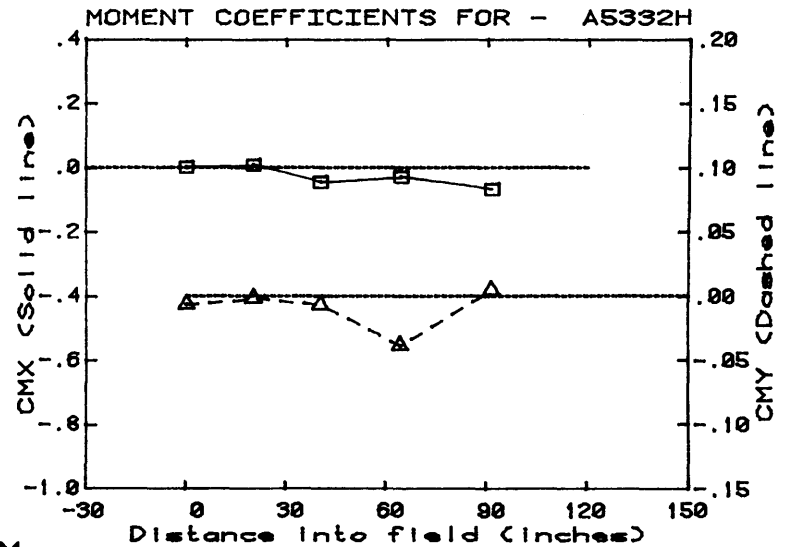
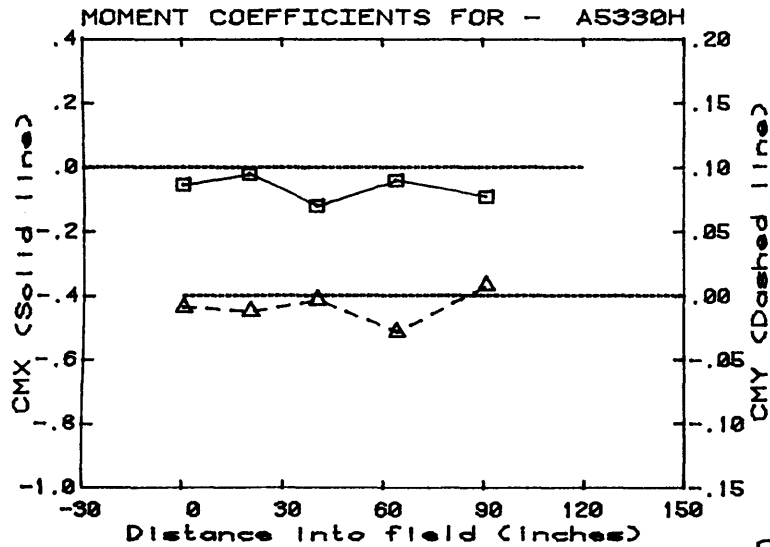
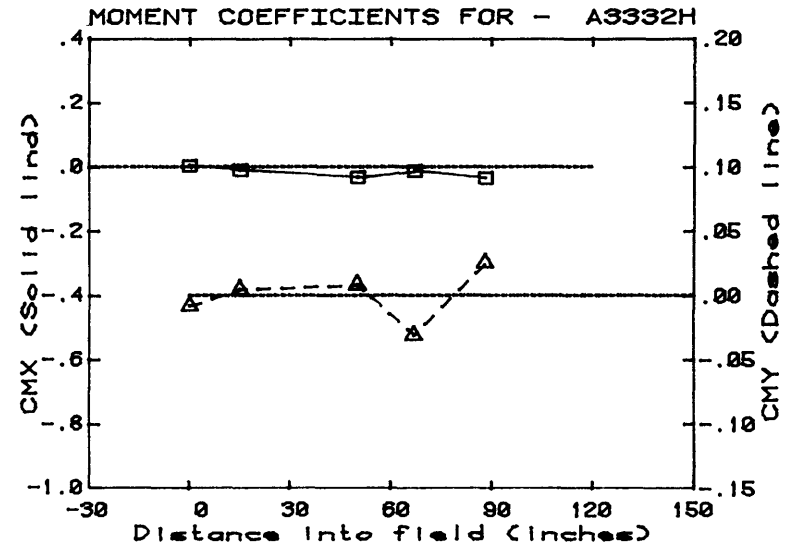
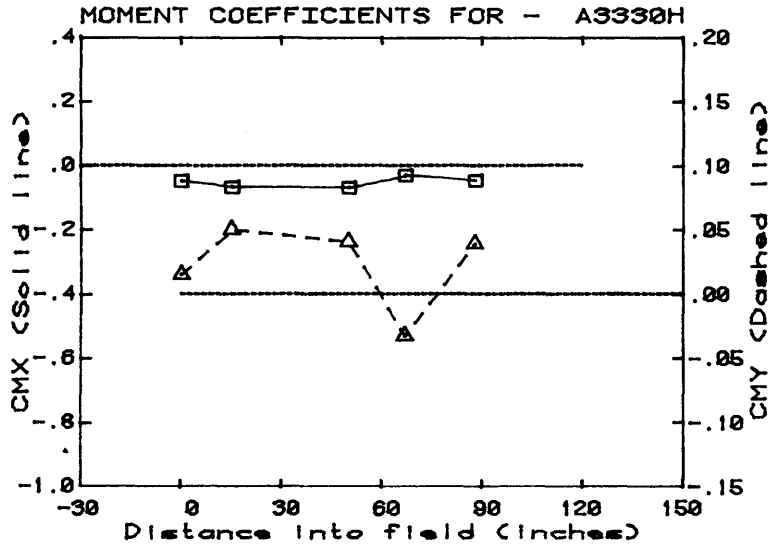


GRAPH 18M





GRAPH 19M



GRAPH 20M