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NASA Contractor Report 182123

Measurement of Unsteady Blade Surface Pressure on a Single Rotation Large Scale Advanced Prop-Fan With Angular and Wake Inflow at Mach Numbers From 0.02 to 0.70

(NASA-CR-182123) MEASUREMENT OF UNSTEADY BLADE SURFACE PRESSURE ON A SINGLE ROTATION LARGE SCALE ADVANCED PROP-FAN WITH ANGULAR AND WAKE INFLOW AT MACH NUMBERS FROM 0.02 TO 0.70 Final Report (Hamilton Standard) 45 p G3/07

N91-10065

Unclass 0310411

P. Bushnell, M. Gruber, and D. Parzych

Hamilton Standard

Windsor Locks, Connecticut

October 1988

Prepared for
Lewis Research Center
Under Contract NAS3-23051

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Date for general release October 1990



National Aeronautics and Space Administration

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SUMMARY

Unsteady aerodynamic pressures were measured on the surface of a rotating Prop-Fan blade in an experiment performed by Hamilton Standard Division of United Technologies Corporation, under contract to NASA-Lewis Research Center, at the S1-MA wind tunnel facility operated by the office National D'Etudes et de Recherches Aeronautique (ONERA) in Modane, France.

The objectives of the experiment were to measure the periodic variations of blade surface pressure resulting from two non-uniform inflow conditions: first, inflow at a three degree angle to the Prop-Fan axis of rotation, and second, inflow with a wake generated by a cylinder mounted upstream of the rotor.

In addition, unsteady pressures were measured under uniform inflow conditions to determine background response levels. The range of Prop-Fan operating conditions included inflow Mach numbers from 0.02 to 0.70. For most of the inflow Mach numbers, more than one power coefficient and/or advance ratio was investigated.

Due to facility power limitations the Prop-Fan test installation was a two bladed version of the eight bladed design configuration. The power coefficient range investigated was therefore selected to cover typical power loading per blade conditions which occur within the Prop-Fan operating envelope.

This report provides unsteady blade surface pressure data for the LAP Prop-Fan blade operation with angular inflow, wake inflow and uniform flow over a range of inflow Mach numbers of 0.02 to 0.70. The data are presented as Fourier coefficients for the first 35 harmonics of shaft rotational frequency. Also presented is a brief discussion of the unsteady blade response observed at takeoff and cruise conditions with angular and wake inflow.

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INTRODUCTION

Prop-Fans are high cruise speed, single or counter rotation, highly loaded, variable pitch advanced turboprops designed to operate at high cruise speeds. Prop-Fan blades incorporate thin airfoils with sweep and are integrated with a spinner and nacelle shaped to reduce axial Mach number through the rotor. This configuration minimizes compressibility losses and results in higher propulsive efficiency than is achievable by high bypass ratio turbofans.

Since 1974 NASA-sponsored Prop-Fan research at Hamilton Standard has proceeded through a series of wind tunnel studies of model Prop-Fans, to the current Large Scale Advanced Prop-Fan (LAP) program and then to the follow-on Prop-Fan Test Assessment (PTA) flight test program.

Over the last several years it has become increasingly evident that detailed measurements of the aerodynamic characteristics of Prop-Fan blades are required to understand the specific nature of Prop-Fan blade flows. Such flows are complicated, containing features such as three dimensional boundary layer effects, leading and tip edge vortices, and shock waves. They are therefore not easily predicted. However, an understanding of the specific nature of Prop-Fan blade flows is vital to the process of refining design methodologies and to improving the performance of new Prop-Fan designs.

The need for measured Prop-Fan blade aerodynamic data has prompted NASA and Hamilton Standard to pursue a program of wind tunnel experiments where both steady and unsteady blade surface pressure measurements would be made. Reporting of the steady pressure experiment has been done in Reference 1. The analysis of the unsteady blade surface pressure testing that was carried out under the program in March of 1987 is reported here. Experimental methods, measured data, and some preliminary comments on observed aerodynamic features are discussed.

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SR-7L PROP-FAN DESCRIPTION

The SR-7L Large Scale Advanced Prop-Fan, illustrated in Figure 1, is a 2.74 meter (9 foot) diameter, eight bladed tractor configuration which was designed for 0.85 Mach number cruise speed at an altitude of 10,667 meters (35,000 feet), ISA. The SR-7L Prop-Fan was designed for high efficiency and low noise while maintaining the necessary restrictions on blade stress, stability and frequency characteristics. Additional fundamental design point parameters are:

Disc loading (Power/diameter ²)	259.6 kW/m ²	(32 shp/ft ²)
Tip speed	243.8 m/s	(800 ft/s)
Advance ratio	3.06	
Power coefficient	1.448	
Activity factor per blade	227.3	
Integrated design lift coeff.	0.191	

Rotation of the Prop-Fan is counterclockwise as viewed from the rear looking forward. The hub to tip ratio is 0.24, and the blades incorporate NACA Series 65/CA airfoils from the root to the 36% radius and NACA Series 16 airfoils from the 52% radius to the tip, with "transition" airfoils in the remaining, middle, portion of the blade. The blade's mid-chord line sweeps back to a maximum of 36° at the tip station. Additional information on the SR-7L Prop-Fan design can be found in Reference 2.

TEST FACILITIES AND EXPERIMENTAL APPARATUS

Wind Tunnel

The blade unsteady surface pressure test was conducted in the 47 m² (506 ft²) atmospheric test section of the ONERA S1-MA wind tunnel in Modane, France.

Prop-Fan drive power was supplied by two gas turbine engines which were located approximately 5 meters (16.4 feet) downstream of the rotor plane. The power [1000 kW (1341 hp), maximum] was transmitted to the rotor through a series of mechanical couplings.

Diagrams of the wind tunnel and the test section with the uniform inflow Prop-Fan installation are shown in Figure 2. Note that the wind tunnel test section is unsymmetrical and the tunnel and Prop-Fan axes were not coincident.

The wind tunnel stagnation conditions were measured in a settling chamber located upstream of the test section. The tunnel static pressure was measured on the wall of the test section in the Prop-Fan plane of rotation and was corrected according to flow survey data to provide the upstream static pressure for undisturbed inflow. The flow survey data were acquired, during testing for Hamilton Standard in 1986, by probing the flow field pressures parallel to the Prop-Fan axis and then subtracting theoretical body flow field effects.

With the tunnel static pressure and stagnation conditions known, the inflow Mach number and static temperature were determined from the one dimensional compressible flow functions.

Prop-Fan Test Installation

The Prop-Fan was operated in a two bladed configuration as shown in Figure 3. This configuration was necessitated by limitations in power available from the drive engines. By running the system with two blades, full and over design power loading conditions were attainable on a per blade basis for inflow Mach numbers through 0.50.

The three test configurations as installed in the wind tunnel are shown in Figure 4. The Prop-Fan support apparatus consisted of a cable and rod system which was designed and tested to assure adequate system damping and structural integrity. It should be noted that the Prop-Fan was "pitched up" by 3 degrees during the angular inflow testing.

Prop-Fan drive power and blade angle were remotely controlled by test personnel in a room adjacent to the wind tunnel test section. Blade angle measurements were made using a potentiometer system.

Wake Generator Post

The cylindrical wake generator post was used to produce a narrow inflow disturbance which the instrumented blade would experience twice per revolution. The post was 0.102 m (4.00 in) in diameter and was mounted vertically on the Prop-Fan center-line at a distance of one rotor radius upstream of the rotor plane.

The range of Reynolds numbers (based on cylinder diameter) was 2.2×10^4 to 1.5×10^6 for inflow Mach numbers from 0.01 to 0.70; note that this range covers the regime where Karman vortex streets occur ($50 < Re < 4 \times 10^5$) and where turbulent separation occurs ($Re > 4 \times 10^5$) as defined in Reference 3.

Instrumented Blade

Collection of the blade surface unsteady pressure data was accomplished with the instrumented SR-7L blade shown in Figure 5. The blade was configured with two radial stations of pressure transducers on both pressure and suction sides. The locations and labeling scheme for the transducers are shown in Figure 6.

The blade was fabricated with a 0.89 mm (0.035 in) thick plastic skin layer on each side. The purpose of the skin was to provide room for flush mounting the transducers and routing the lead wires along the blade surfaces without disrupting the blade internal structure and also maintaining a smooth blade surface. Cross sectional and plan views of the transducer and lead wire installations in the plastic skin are shown in Figure 7.

Utilization of the skin cladding approach described above resulted in an increase in blade thickness of 1.78 ± 0.25 mm (0.070 ± 0.010 in) from the design thickness. This amounts to a $10.4 \pm 1.5\%$ increase in the airfoil section thickness ratio (mid chord thickness/chord) at the inboard radial station and a $27.6 \pm 3.9\%$ increase at the outboard radial station. A leading edge fiberglass wrap which was used to lock the plastic skins in place resulted in a 0.76 ± 0.18 mm (0.030 ± 0.007 in) increase in the leading edge radii. The transition from the leading edge radii to the airfoil surfaces was smooth.

Pressure Transducers and Instrumentation

A general schematic of the LAP instrumentation system can be seen in Figure 8. The LAP dynamic pressure blade was instrumented with twenty-six pressure transducers and four strain gages. Signal conditioning and strain gage bridge completion were provided by a printed circuit board located in the cuff of the blade. Programmable connector sockets were used as an interface between the signal conditioning boards and the rotating interface board (RIB).

As shown in Figure 8, the RIB board provided signal and power interconnection between components of the rotating system. All signals from the programmable connector were routed through the RIB board to the VCO cases. Each VCO case contained 16 VCO's (IRIG channels 1A-16A) and a line driver/mixing amplifier. The output of each VCO case was a 16 channel FM frequency multiplexed signal which was transmitted to the non-rotating instrumentation via a pair of slip rings. This system, therefore, could handle up to 32 active channels. The typical measurement uncertainty of the system was less than ± 5 percent.

The LAP dynamic pressure blade was instrumented with 26 (13 on each side) Endevco model 8515A 15SM2 pressure transducers. (See Figure 9.) These were sealed gages with a pressure range of ± 69 KPa (± 10 psi). Resistor R1 (1,000 OHM) provided improved temperature compensation and an attenuation resistor R2 (500 OHM) reduced transducer output. Elastomer mounting was used to isolate the transducer from the blade to reduce base strain sensitivity.

The signal conditioning board, mounted in the cuff of the dynamic pressure blade, provided three functions: 1) Pressure transducer to instrumentation interface, 2) Strain gage bridge completion (not shown in Figure 9), and 3) Shunt CAL for each strain gage bridge (not shown in Figure 9).

The unsteady pressure instrumentation utilized two identical voltage controlled oscillator (VCO) cases each containing 16 VCO's and matching preamplifiers and one mixing amplifier/line driver. Each VCO consisted of both a preamplifier (Low Level Amplifier) and VCO module which were matched in pairs. The preamplifiers had a standard fixed gain of $250 \pm 2\%$ to accommodate conditioned pressure and strain gage signals. The VCO subcarrier frequencies were all standard IRIG A constant bandwidth (CBW) channels (1A-16A) with a deviation of ± 2 KHz. All 16 VCO outputs in each case were mixed into a single 16 channel frequency multiplexed signal.

A rotating power supply provided +5 VDC excitation for the pressure transducers and strain gages and supplied the 25.5 VDC power required for the rotating electronics. It derived its power through slip rings from the primary power supply located on the non-rotating side. The primary power supply output voltage could be set by the user at one of three levels. This level was sensed by the rotating power supply and forced into one of three possible modes - the USE, FULL SCALE STANDARDIZE (for strain gages only) or the ZERO mode. This feature allowed the transmission of the standardizing commands to the rotating electronics using a minimum number of slip-rings.

The LAP instrumentation slip ring was an eight-ring platter-type assembly which provided the electrical interface for the propeller measurements between the rotating propeller assembly and the non-rotating propeller control. Five of the eight rings were used for the dynamic pressure instrumentation as shown in Figure 9.

Each of the two detranslators accepted a 16 channel VCO case output. The detranslator, utilizing a filtering and heterodyning process, converted the multiplex signal into four groups with four subcarriers each. These subcarriers were IRIG channels 1A, 2A, 3A and 4A in all cases. A total of eight multiplex groups originated at the detranslators and were recorded directly on tape.

TEST PROCEDURE AND OPERATING CONDITIONS

The ranges of operating conditions that were run for the three test installations are given in Table 1. The table is ordered by increasing Mach number and subordered by increasing power coefficient. The point numbers, given at the left in the table, refer to the operating condition numbers specified in the test plan (Reference 4). The measurement uncertainties for the operating parameters are indicated by the + signs. Additional data containing tunnel operating parameters can be found in Appendix D.

The basic format of the experiment follows Table 1; the 3° angular inflow case was run first followed by the wake and uniform inflow cases. For each of the cases the Prop-Fan was stepped through the test points and data were acquired during a 2 to 3 minute hold at each point.

In general, the procedure for setting a specific test point was to set inflow Mach number and then adjust the rotor speed and blade angle, to obtain a desired power coefficient. This procedure assured good power coefficient matches for the three test installations and resulted in minimal variation of Mach number and advance ratio.

Test points 2, 3 and 4 in Table 1 approximate static propeller conditions of increasing power, and test points 5, 5A, 5B and 6 were selected to investigate takeoff conditions. The three runs at 0.50 inflow Mach number cover a wide range of power loading conditions and include a case at the design cruise power coefficient per blade. Points 10 and 11 were run only for the angular inflow testing since it was determined that the pressure transducers were too susceptible to damage at high inflow speeds.

DATA REDUCTION

Fourier Analysis

The objective of the data reduction process was to express the periodic pressure signals (relative to blade surface static pressure) in Fourier coefficient form. This allowed the data to be presented as a compact tabulation of signal harmonics of blade rotational frequency, from which one may reconstruct the original pressure waveforms with resolution corresponding to the number of harmonics given.

Prior to analysis, a particular data signal was low-pass filtered at 1000 Hz to eliminate high frequency noise (the limit of the data acquisition system was 1000 Hz, so no loss of data occurred during this process).

The Fourier coefficients were obtained by using the once-per-revolution pip signal to divide the continuous pressure signals into a series of 1024 waveforms, each with period corresponding to one revolution of the rotor. A digital Fourier transform analyzer was then used to obtain the first 35 Fourier coefficients of each waveform. Average values of the coefficients were then determined from the 1024 waveforms sampled.

Definitions of the Fourier coefficients, determined in this way, are:

$$a_k = \frac{1}{L} \sum_{\ell=1}^L \frac{1}{N} \sum_{n=1}^N p(n, \ell) \cos(2\pi kn/N) \quad (1)$$

$$b_k = \frac{1}{L} \sum_{\ell=1}^L \frac{1}{N} \sum_{n=1}^N p(n, \ell) \sin(2\pi kn/N) \quad (2)$$

where $k = 1, 2, \dots, K$ ($K=35$) is the harmonic of blade rotational frequency

$n = 1, 2, \dots, N$ (N) is the sample index,

$\ell = 1, 2, \dots, L$ ($L=1024$) is the revolution number,

and $p(n, \ell)$ is the unsteady pressure (relative to the mean blade surface pressure) for sample n in revolution ℓ .

The Fourier representation of the average waveform may then be obtained as a function of blade azimuth angle θ , by

$$P(\theta) = \sum_{k=1}^K a_k \cos(\theta k) + b_k \sin(\theta k) \quad (3)$$

The amplitude of the k^{th} harmonic is $(a_k^2 + b_k^2)^{1/2}$.

In Equation 3, $\theta = 0^\circ$ corresponds to the angular position of the once per revolution pip signal (116° before top-dead-center). Plots, which are discussed later in the report are given such that 0° corresponds to top-dead-center.

Correction for Non-uniformities in the Tunnel Flow

Upon review of the data, reduced as described above, some small (but significant) unsteady pressure response was found in the nominally uniform inflow data. This response was primarily of the first harmonic order, but some higher order response was exhibited as well. It is believed that the principal cause of this response was residual flow angularity resulting from the tunnel section asymmetry mentioned above.

In order to correct the angular and wake inflow spectra for residual flow angularity, the Fourier coefficients from each transducer and run number for the angular and wake inflow data were modified by subtracting the components from the corresponding uniform inflow case. That is,

$$a_k(i,j)\text{corrected} = a_k(i,j)\text{angular} - a_k(i,j)\text{uniform} \quad (4)$$

angular or wake
or wake

where $k = 1, 2, \dots, 35$ and i and j are the pressure transducer and, run numbers, respectively. The corresponding corrections were also made to the b_k 's.

This correction was applied to every case for which corresponding uniform inflow data was available. Table 2 shows the status of the data; angular and wake inflow data signals marked "X" have been corrected; signals marked "*" were not corrected.

RESULTS AND DISCUSSION

Format of Data Presented

The uniform flow, angular flow, and wake data tabulations can be found in Appendices A through C, respectively. The data in each appendix are ordered in the same way as previously explained for Tables 1 and 2. Each page contains the data in terms of a_k , b_k and the corresponding component amplitudes. Also included are the wind tunnel/Prop-Fan operating conditions and the location of a given pressure transducer on the blade.

General Information About the Data

Throughout the testing some of the pressure transducers were inoperable due to intermittent signals in the system instrumentation. This left some gaps in the data. However, the existing data are adequate to provide an understanding of unsteady blade surface pressure behavior. The appendices include only data from functioning transducers.

Signal levels for the low power and the low speed conditions were quite low and noise contamination was observed in some of the signals. The random part of the noise was reduced by averaging the signals over 1024 revolutions. This enhances the repetitive portion of the signal while suppressing the random part. However, in some instances the noise occurred at harmonics of the blade's rotational frequency. In these cases the noise was not averaged out and is included in the Fourier coefficients presented in the tables.

Data Representation - Waveform Versus Fourier Components

Data are represented as complex Fourier coefficients for 35 harmonics of rotational frequency. To determine how well 35 harmonics represent the measured waveform, an inverse transform was performed for both a representative angular inflow condition and a wake condition. Shown in Figure 10 is a comparison of the measured and re-computed waveforms of the angular inflow and wake conditions. It can be seen that, for the angular inflow condition, 35 harmonics adequately represent the waveform. In the wake inflow case, it can be seen that the waveform is generally represented well with 35 harmonics. However, the sharp peaks of the re-computed waveforms are slightly lower in amplitude than those of the measured waveforms. This indicates that small amounts of additional upper harmonic content are present.

The Fourier analysis of the data appears to provide some low-pass filtering of the data. However, it should be emphasized that the instrumentation limitations of the data acquisition system was 1000 Hz which is approximately equal to the frequency represented by 35 harmonics of rotational frequency.

Waveform and Spectrum Examples

To provide an illustration of the data collected during the test in waveform and spectrum content, examples are given in Figure 11 that show periodic variations in pressure and corresponding frequency spectra. The operating point shown is representative of the Prop-Fan takeoff condition blade surface pressures on the suction side of the blade at approximately mid-chord and 90% blade radius.

The pressure versus time plots shows the average variation in pressure the blade experienced on a circumferential basis during 1024 revolutions. This tends to average out the non-repetitive portion of the waveform. The spectra shown were obtained by Fourier transforming the signal with a 4.8 second averaging time. The frequency bandwidth for these spectra is 1.25 Hz.

Discussion of Representative Data

The data selected for discussion are representative of cruise and takeoff conditions. The conditions chosen are as follows:

<u>CONDITION REPRESENTED</u>	<u>RUN</u>	<u>TEST POINT</u>	<u>TUNNEL MACH NO. M_{∞}</u>	<u>ADVANCE RATIO J</u>	<u>POWER COEFF. C_p</u>	<u>INFLOW CONDITION</u>
CRUISE	38	8	0.500	3.064	0.360	UNIFORM
CRUISE	10	8	0.501	3.065	0.363	ANGULAR
CRUISE	29	8	0.500	3.063	0.361	WAKE
TAKEOFF	8	6	0.199	0.881	0.251	ANGULAR
TAKEOFF	25	6	0.199	0.880	0.250	WAKE

It should be noted that although M_{∞} is not equal to the 0.8 M_{∞} of the design cruise condition, the advance ratio (J) and power coefficient (C_p) on a per blade basis equal the cruise values so that the non-dimensional loading and flow angles are approximately preserved.

An example of the unsteady blade response in uniform flow can be seen in Figure 12. The point shown is approximately at mid-chord of the outboard radial station ($r/R = 0.91$) on the suction (or camber) side of the blade. It can be seen that the pressure is reasonably uniform, with only minor variations. The uniform pressure indicates that the inflow is reasonably uniform in the tunnel. This is typical of the magnitude of the "non-uniformity" in the uniform flow data at other pressure transducers.

The wake and angular inflow data are presented in Figures 13 through 28. Each of the figures present the data on one side of the blade (suction or pressure) at one radial station ($r/R = 0.64$ or $r/R = 0.91$). Each figure shows how the blade surface pressure varies as a function of azimuth and chordwise location. The first waveform shown on each figure is the operating transducer closest to the leading edge with subsequent waveforms representing pressure response progressing toward the trailing edge. In all cases the waveforms are those computed from the 35 Fourier coefficients.

In Figure 13 the waveforms are shown on the pressure side of the blade at $r/R = 0.64$ for an angular inflow cruise condition. The sinusoidal response is typical of that expected for propellers operating at angle of attack. It can be seen that the blade has the largest response slightly downstream from the leading edge and has progressively less response toward the trailing edge. The once-per-revolution response is clearly evident. Shown in Figure 14 are the pressure waveforms for the suction (camber) side of the blade at $r/R = 0.64$. It can be seen that response on the suction side is similar to that on the pressure side with the exception of the point closest to the leading edge. At the $x/c = .049$ location there appears to be some additional response around 45 and 180 degrees. The cause of this is not known at this time. Shown in Figures 15 and 16 are the blade pressures for the pressure and suction sides at $r/R = 0.91$. It can be seen that results at this radial station are similar to those observed at the 0.64 r/R radial locations.

Figures 17 and 18 present cruise condition wake inflow comparisons on the pressure and suction blade sides at $r/R = 0.64$. The wake is fairly broad but can clearly be seen to occur twice-per-revolution at 0 and 180 degrees. In Figures 19 and 20 ($r/R = 0.91$) the wake cannot be seen as clearly at 0 and 180 degrees. Some additional response can be seen at other azimuth locations that are equal to or greater than the magnitude of the wake response.

Figures 21 and 22 show results at takeoff conditions with angular inflow on the pressure and suction sides of the blades at $r/R = 0.64$. It can be seen that very little response occurs on the pressure side of the blade. On the suction side of the blade the response is non-sinusoidal. This may be indicative of non-linear response and could be due to a leading-edge vortex that is just beginning to form at this location. (The $r/R = 0.64$ location is just past the "knee" of the blade where the blade starts to sweep back.) The leading edge vortex phenomenon has been observed in high power cases as reported in Reference 1. At the tip location ($r/R = 0.91$) a similar phenomenon appears to occur as shown in Figures 23 and 24. The pressure side of the blade shows sinusoidal response across the blade chord. However, on the suction side of the blade, non-linear response is present.

Shown in Figures 25 through 28 are the waveforms seen at at takeoff condition with a wake inflow at $r/R = 0.64$ and $r/R = 0.91$ on the blade pressure and suction surfaces. It can be seen at both radial stations that the pressure side of the blade has little response to the incoming wake. However, the suction side of the blade responds more strongly. The increased response may be due to the motion of leading edge and tip vortices on the suction surface caused by periodic angle-of-attack variations.

CONCLUSIONS

- Unsteady blade surface pressure data were successfully collected over the following range of conditions:
 - Angular Inflow (3°) $0.02 \leq M_\infty \leq 0.70$
 - Wake Inflow $0.03 \leq M_\infty \leq 0.50$
 - Uniform Inflow (0°) $0.02 \leq M_\infty \leq 0.50$

- Presenting the data in Fourier coefficient form for the first 35 harmonics of rotational frequency provided a good representation of the data in a compact tabular form. This technique allowed the small non-uniformities of the tunnel to be "corrected out" of the angular and wake inflow data.

- The uniform inflow data shows some traces of distortion. This is probably due to tunnel asymmetry.

- Unsteady pressure response is evident in the angular inflow and wake data. The angular inflow data clearly shows a dominant once-per-revolution response while the wake data shows response twice-per-revolution as the instrumented blade passes the wake generating post.

- Sinusoidal response was observed on the pressure (face) side of the blade in all cases examined for angular inflow conditions.

- Sinusoidal response was observed on the suction (camber) side of the blade under low loading conditions. However, under high loading conditions a non-sinusoidal response was observed. The non-sinusoidal response may be due to leading edge and tip vortices that distort the response. Another possibility is the formation and breakdown of the vortices as the angular inflow or wake inflow modulates the angle-of-attack.

SYMBOLS AND ABBREVIATIONS

a_k	-	Real part of Fourier coefficient of " K^{th} " harmonic
b_k	-	Imaginary part of Fourier coefficient of " K^{th} " harmonic
C	-	Blade chord
CBW	-	Constant Bandwidth
c_p	-	Power coefficient = (Power absorbed)/ $\rho(2\pi\Omega)^3(2R)^5$
FM	-	Frequency modulation
hp	-	Horse power
i	-	Pressure transducer number
j	-	Point number
J	-	Advance ratio $\pi M_x/M_r$
K	-	Harmonic of blade rotational frequency
KPa	-	Kilo Pascals
KW	-	Kilowatts
ℓ	-	Revolution number
LE	-	Leading edge
m	-	Meters
M_∞	-	Inflow Mach number
M_r	-	Tip Mach number
n	-	Sample index number
$P(n, \ell)$	-	Unsteady pressure for sample n in revolution ℓ
PSI	-	Pressure (lb/inch ²)
PT	-	Pressure Transducer
r	-	Radial distance from hub center-line
R	-	Rotor radius

SYMBOLS AND ABBREVIATIONS (Continued)

Re	-	Reynolds number
RIB	-	Rotating interface board
TE	-	Trailing edge
VCO	-	Voltage controlled oscillator
VDC	-	Voltage (direct current)
X/C	-	Non-dimensional blade chord (distance from LE)
β	-	Blade angle at $r = 104.1$ cm (degrees)
Ω	-	Rotor speed, radians/second
ρ	-	Air density Kg/m^3 (lb/ft^3)

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Table 1

Operating Conditions for 3° Angular Inflow

Point Number	Mach Number, M_∞	Advance Ratio, J	Power coeff., CP	Blade Angle, β
2	0.017 ±0.013	0.107 ±0.076	0.096 ±0.001	14.9 ±0.5°
3	0.026 ±0.013	0.159 ±0.079	0.155 ±0.001	19.1 ±0.5°
4	0.030 ±0.013	0.186 ±0.079	0.204 ±0.001	22.1 ±0.5°
5	0.200 ±0.003	0.883 ±0.015	0.101 ±0.001	26.0 ±0.5°
5A	0.200 ±0.003	0.879 ±0.015	0.149 ±0.001	27.2 ±0.5°
5B	0.200 ±0.003	0.881 ±0.015	0.200 ±0.001	29.5 ±0.5°
6	0.199 ±0.003	0.881 ±0.015	0.251 ±0.001	31.6 ±0.5°
9	0.500 ±0.002	3.070 ±0.012	0.112 ±0.001	52.0 ±0.5°
8	0.500 ±0.002	3.063 ±0.012	0.361 ±0.002	55.5 ±0.5°
7	0.500 ±0.002	3.065 ±0.012	0.649 ±0.003	59.4 ±0.5°
10	0.598 ±0.001	3.065 ±0.010	0.226 ±0.001	53.9 ±0.5°
11	0.700 ±0.001	3.058 ±0.008	0.216 ±0.001	53.9 ±0.5°

Operating Conditions for Inflow with Wake

Point Number	Mach Number, M_∞	Advance Ratio, J	Power coeff., CP	Blade Angle, β
4	0.029 ±0.013	0.177 ±0.079	0.204 ±0.001	22.2 ±0.5°
5	0.200 ±0.003	0.884 ±0.015	0.101 ±0.001	26.0 ±0.5°
5A	0.199 ±0.003	0.883 ±0.015	0.151 ±0.001	27.4 ±0.5°
5B	0.199 ±0.003	0.881 ±0.015	0.202 ±0.001	29.7 ±0.5°
6	0.199 ±0.003	0.880 ±0.015	0.250 ±0.001	31.6 ±0.5°
9	0.500 ±0.002	3.063 ±0.012	0.114 ±0.001	51.9 ±0.5°
8	0.501 ±0.002	3.065 ±0.012	0.363 ±0.002	54.9 ±0.5°
7	0.501 ±0.002	3.067 ±0.012	0.650 ±0.003	58.4 ±0.5°

Operating Conditions for Uniform Inflow

Point Number	Mach Number, M_∞	Advance Ratio, J	Power coeff., CP	Blade Angle, β
4	0.022 ±0.013	0.138 ±0.079	0.208 ±0.001	22.2 ±0.5°
5	0.201 ±0.003	0.881 ±0.015	0.100 ±0.001	26.0 ±0.5°
5A	0.200 ±0.003	0.883 ±0.015	0.152 ±0.001	28.2 ±0.5°
5B	0.200 ±0.003	0.882 ±0.015	0.201 ±0.001	29.8 ±0.5°
6	0.199 ±0.003	0.880 ±0.015	0.249 ±0.001	32.3 ±0.5°
9	0.500 ±0.002	3.068 ±0.012	0.109 ±0.001	52.3 ±0.5°
8	0.500 ±0.002	3.064 ±0.012	0.360 ±0.002	55.5 ±0.5°
7	0.499 ±0.002	3.065 ±0.012	0.653 ±0.003	58.5 ±0.5°

Table 2

SR7 BLADE - UNSTEADY PRESSURE DATA

PRESSURE TRANSDUCERS (PT'S) WITH USABLE SIGNALS
VERSUS RUN AND POINT NUMBERS

A - ANGULAR INFLOW
W - WAKE INFLOW
U - UNIFORM INFLOW

X - USABLE DATA; ANGULAR AND WAKE
INFLOW DATA CORRECTED FOR RESIDUAL
UNSTEADY REPOSE OF THE CORRESPONDING
UNIFORM INFLOW DATA.

* - USABLE DATA; NO CORRECTION.

POINT	2	3	4	5	5A	5B	6	9	8	7	10	11
RUN A	2	3	4	5	6	7	8	9	10	11	12	13
W			20	21	28	23	25	26	29	30		
U			32	33	34	35	36	37	38	39		
PT	1											
2	*	*	X	X	X	X	X	X	X	X	X	*
3												
4												
5	*	*		*	X	X	X	X	X	X	X	*
6	*	X	X	X	X	X	X	X	X	X	X	*
7					*	*	*	*	*	*	*	*
8				X	X	X	X	X	X	X	X	*
9				X	X	X		X	X	X	X	*
10		X	X	X	X	X	X	X	X	X	X	*
11				*	X	X	X	X	X	X	X	*
12			*	X	X	X	X	X	X	X	X	*
13				X	X	X	X	X	X	X	X	*
14												
15							X	X	X	X	X	*
16		X	X	X	X	X	X	X	X	X	X	*
17												
18			*	*		*	*	*	*	*	*	*
19												
20		X	X	X	X	X	X	X	X	X	X	*
21	*	*	*	*	*	*	*	*	*	*	*	*
22												
23	*	*	*	*	X	X	X	X	X	X	X	X
24	*	*	*	*	X	X	X	X	X	X	X	X
25	*	*	*	*	X	X	X	X	X	X	X	X
26	*	*	*	*	X	X	X	X	X	X	X	X

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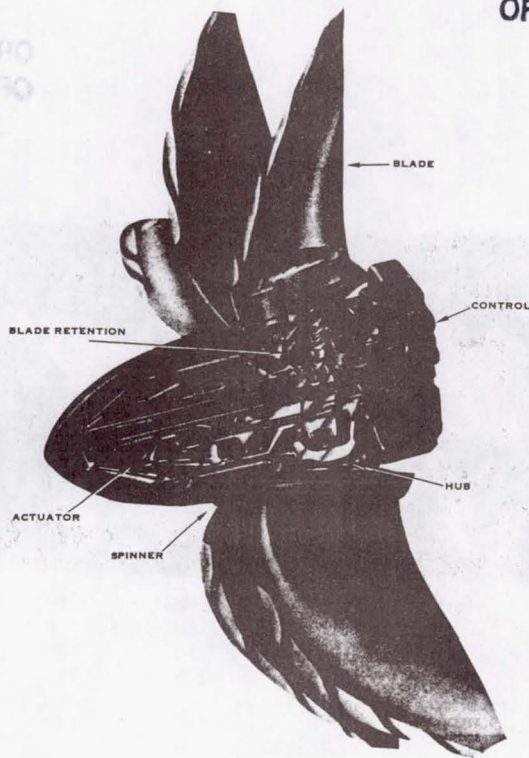


FIGURE 1. - LARGE SCALE ADVANCED PROP-FAN.

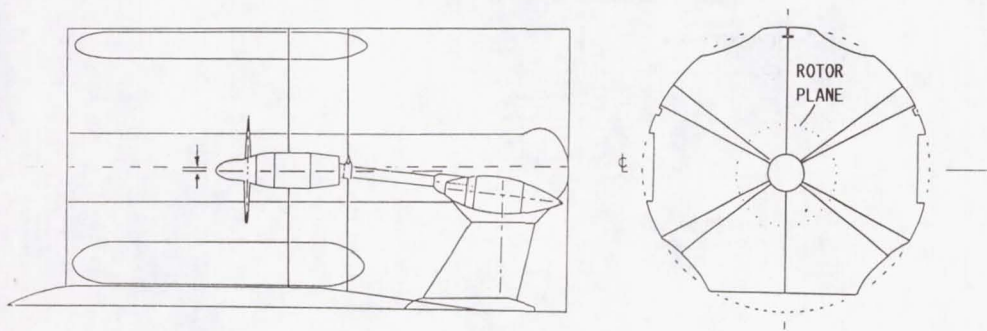


FIGURE 2. - SR7 PROPFAN INSTALLATION IN SI-MA TRANSONIC TEST SECTION (UNIFORM INFLOW).

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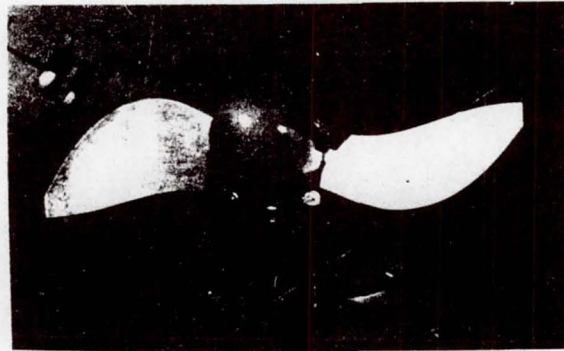


FIGURE 3. - PROPFAN UNSTEADY PRESSURE TEST SETUP.

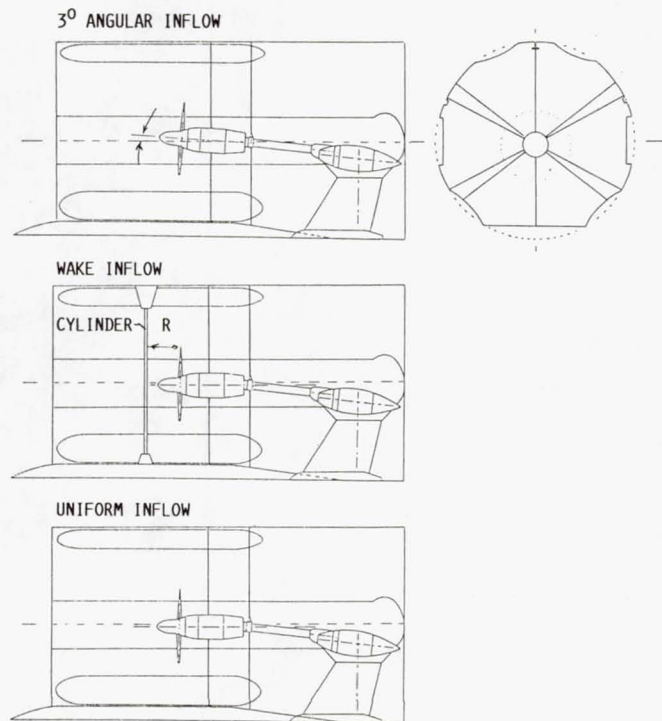


FIGURE 4. - TEST CONFIGURATION FOR 3° ANGULAR, WAKE AND UNIFORM INFLOW.

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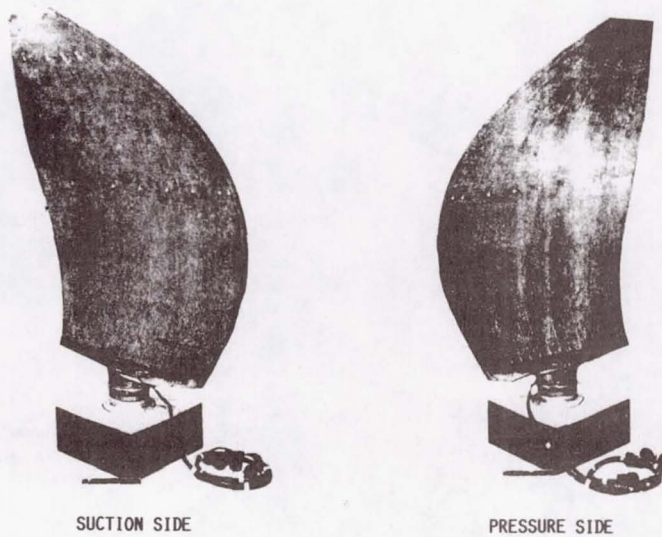


FIGURE 5. - LAP UNSTEADY PRESSURE BLADE.

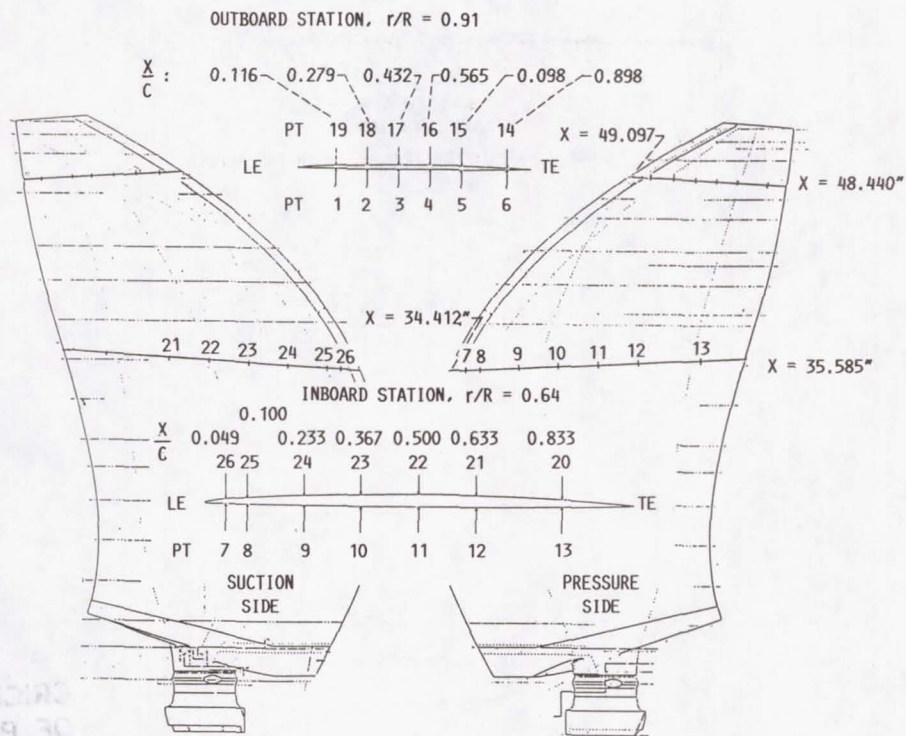


FIGURE 6. - SR7 UNSTEADY PRESSURE INSTRUMENTED BLADE - TRANSDUCER LOCATIONS AND NUMBERING.

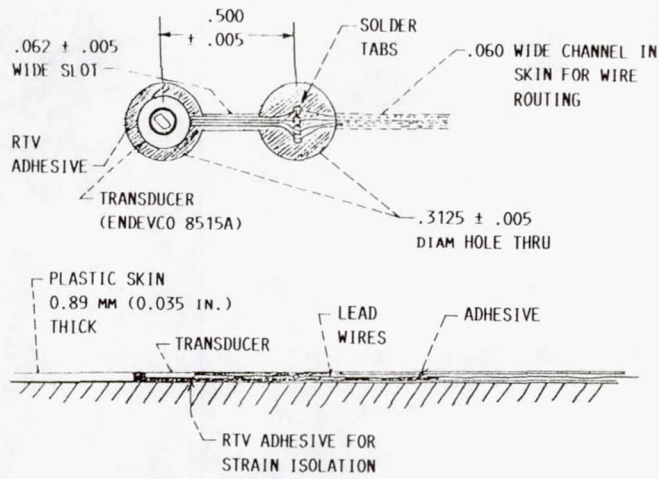


FIGURE 7. - PRESSURE TRANSDUCER INSTALLATION.

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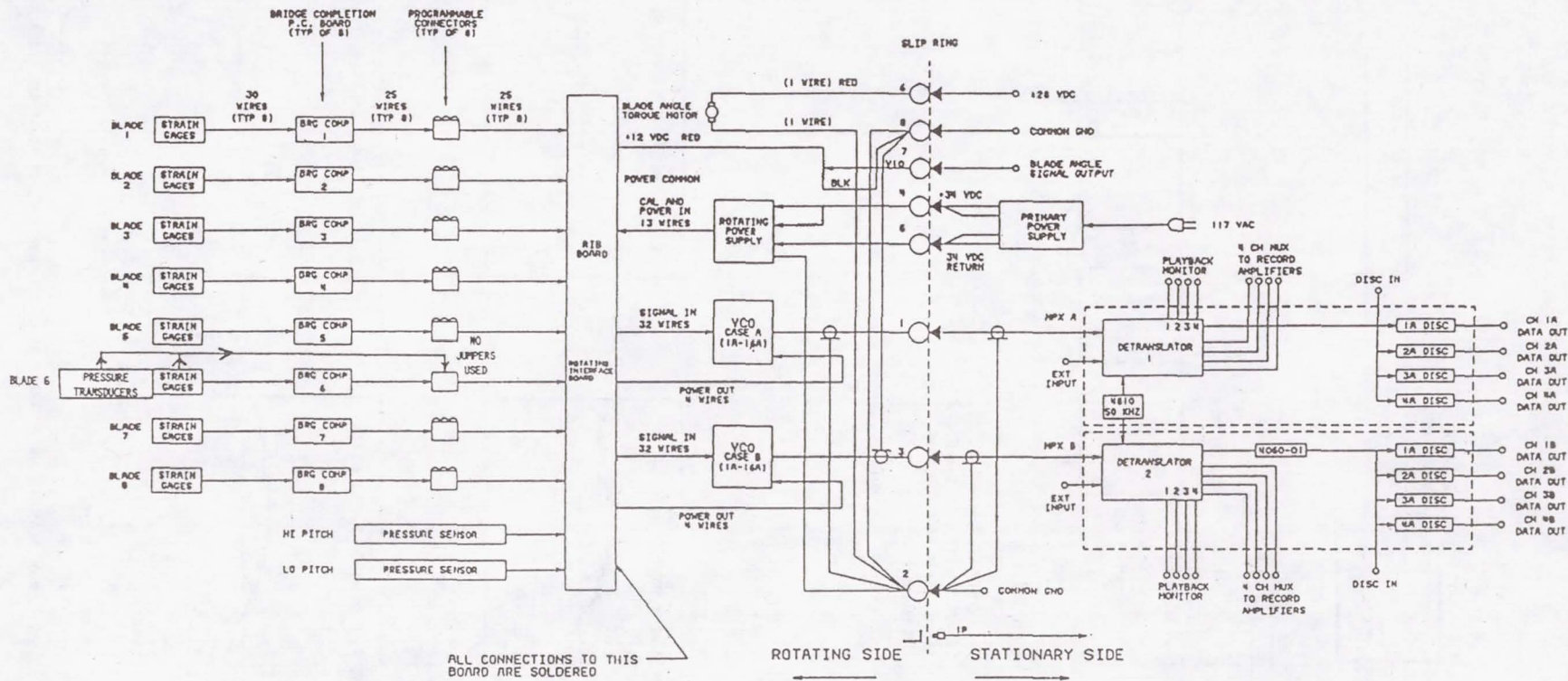


FIGURE 8. - GENERAL SYSTEM INSTRUMENTATION DIAGRAM.

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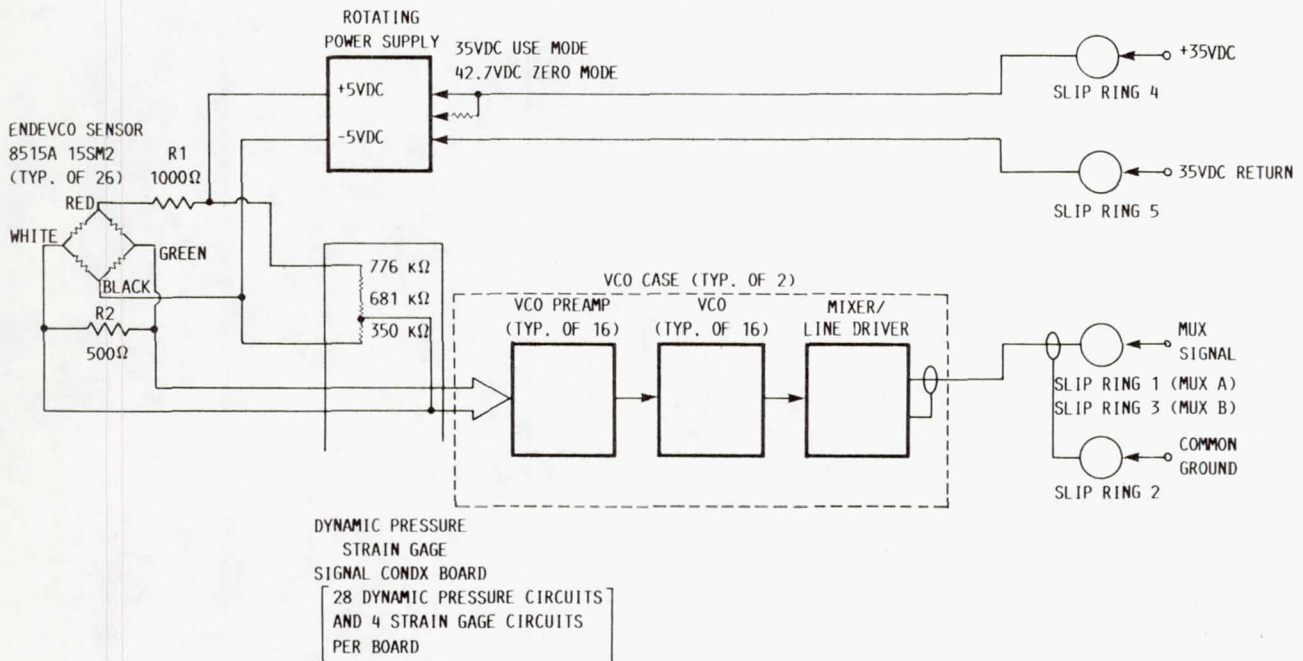


FIGURE 9. - ROTATING DYNAMIC PRESSURE INSTRUMENTATION.

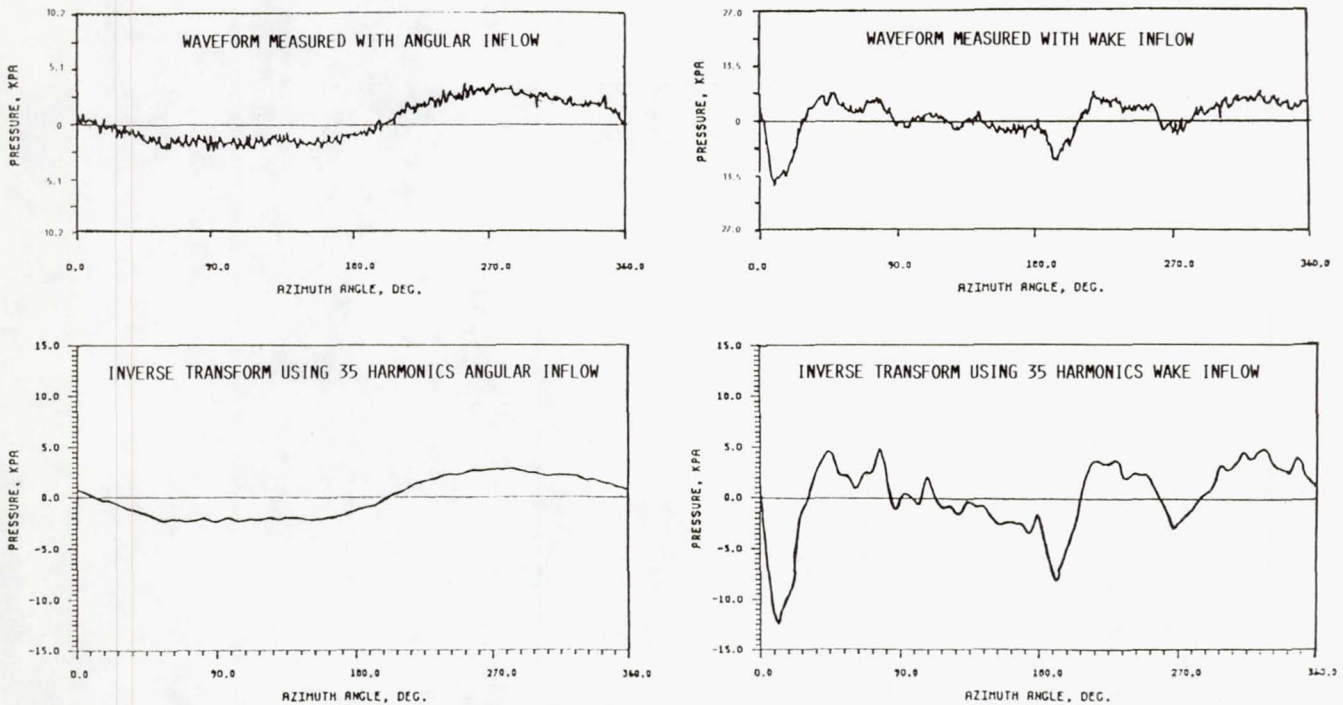
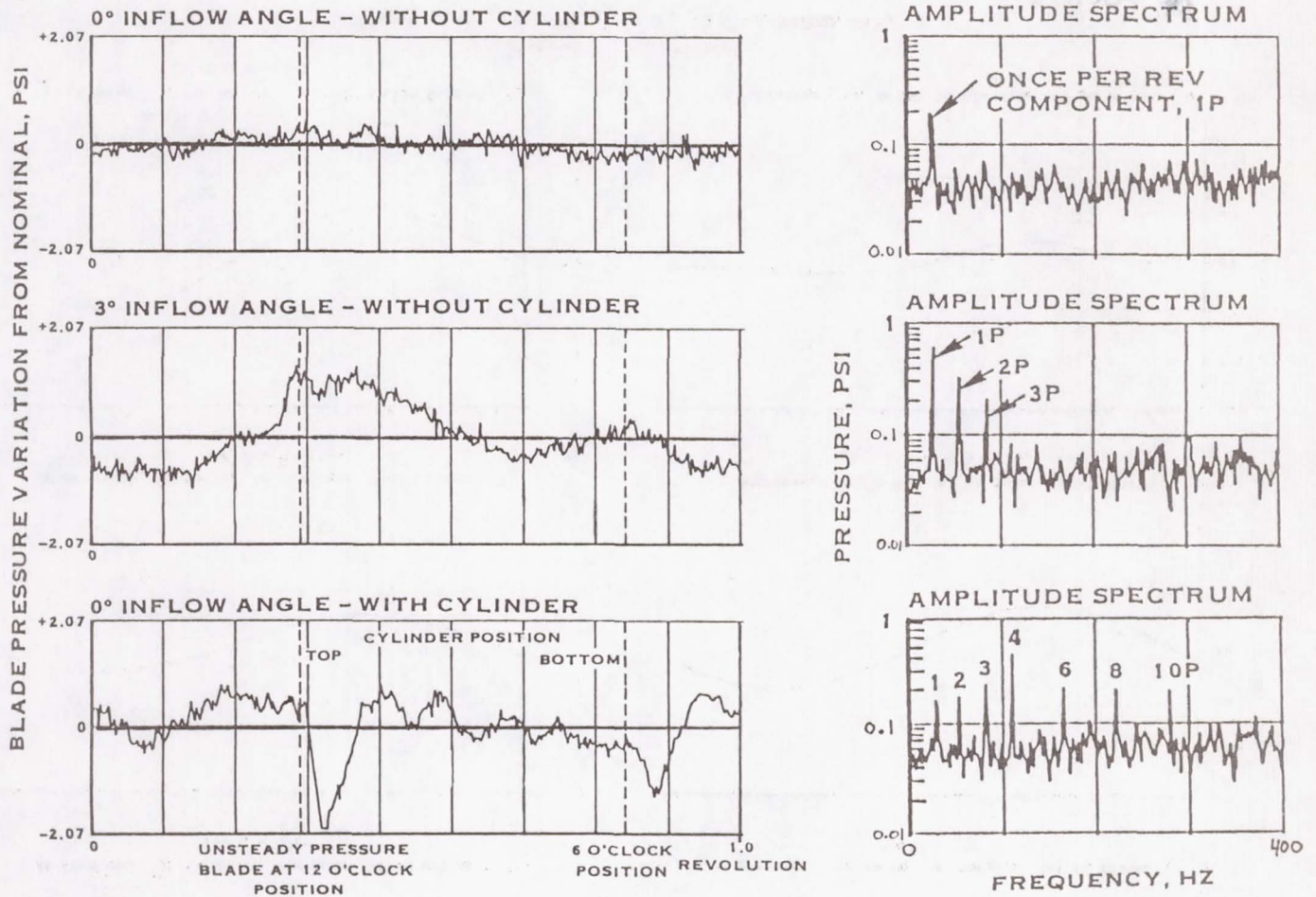


FIGURE 10. - COMPARISON OF MEASURED AND RE-CALCULATED WAVEFORMS OF UNSTEADY BLADE SURFACE PRESSURE.



($M_\infty = 0.2$, $J = 0.883$, $C_p = 0.250$, $\beta_{3/4} = 32^\circ$)

FIGURE 11. - TYPICAL WAVEFORMS AND SPECTRA OF LAP UNSTEADY BLADE SURFACE PRESSURE MEASUREMENTS.

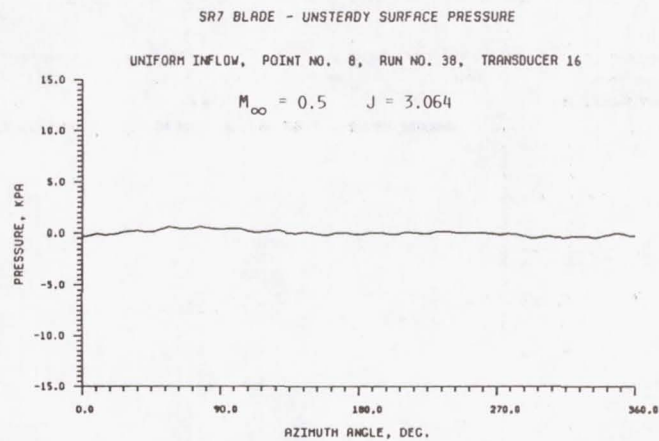
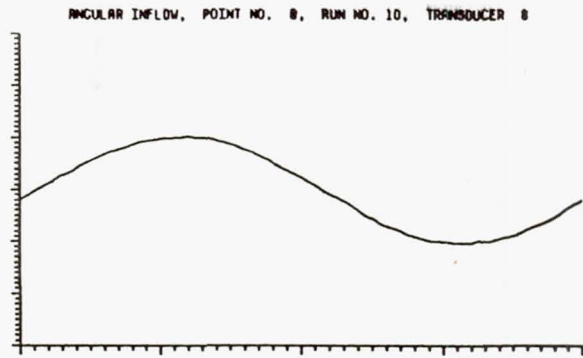
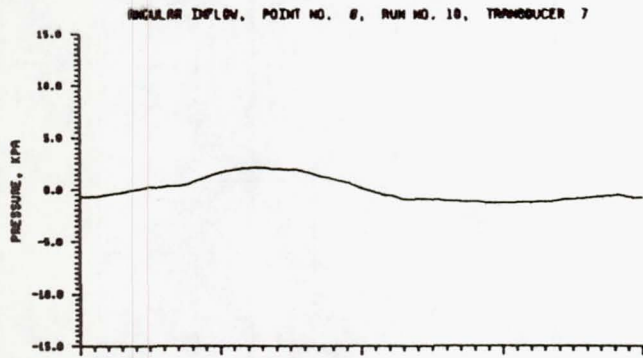


FIGURE 12. - TYPICAL BLADE SURFACE PRESSURE VARIATION WITH AZIMUTHAL LOCATION WITH "UNIFORM" INFLOW.

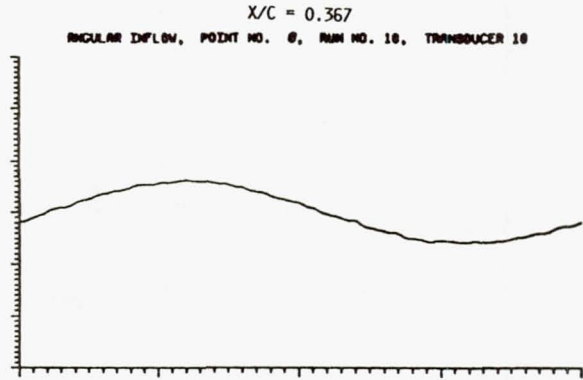
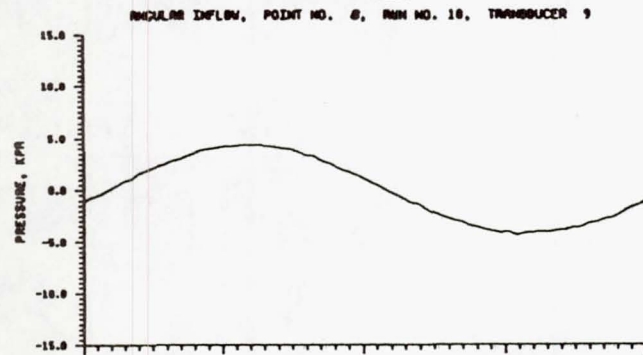
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PRESSURE SIDE AT $r/R = 0.64$ $M_\infty = 0.5$ $J = 3.064$

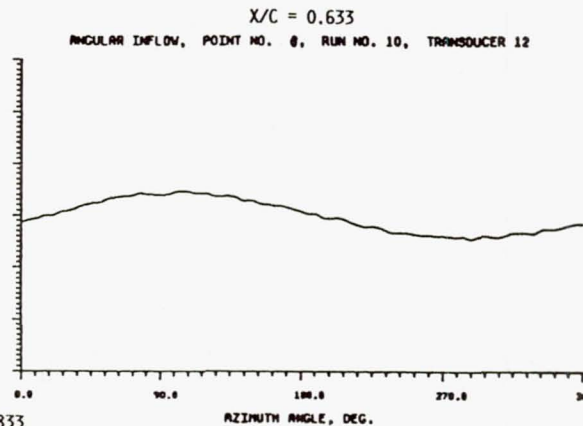
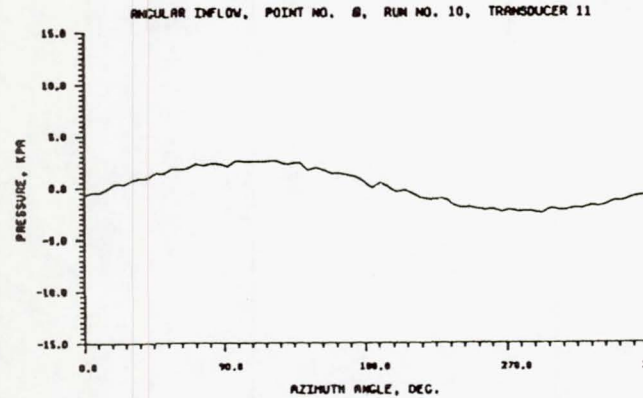
$X/C = 0.100$



$X/C = 0.233$



$X/C = 0.500$



$X/C = 0.833$

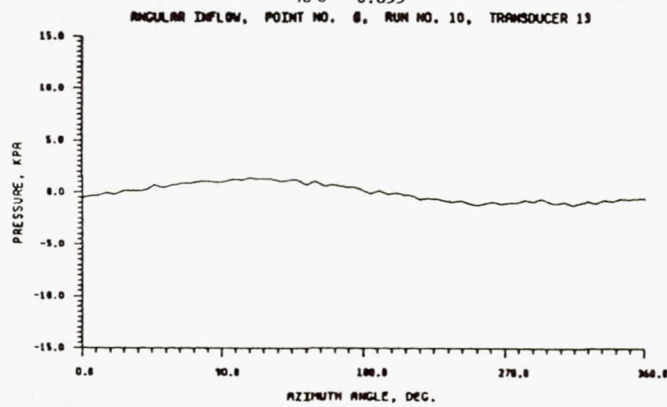


FIGURE 13. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH ANGULAR INFLOW.

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SUCTION SIDE AT $r/R = 0.64$ $M_{\infty} = .501$ $J = 3.063$

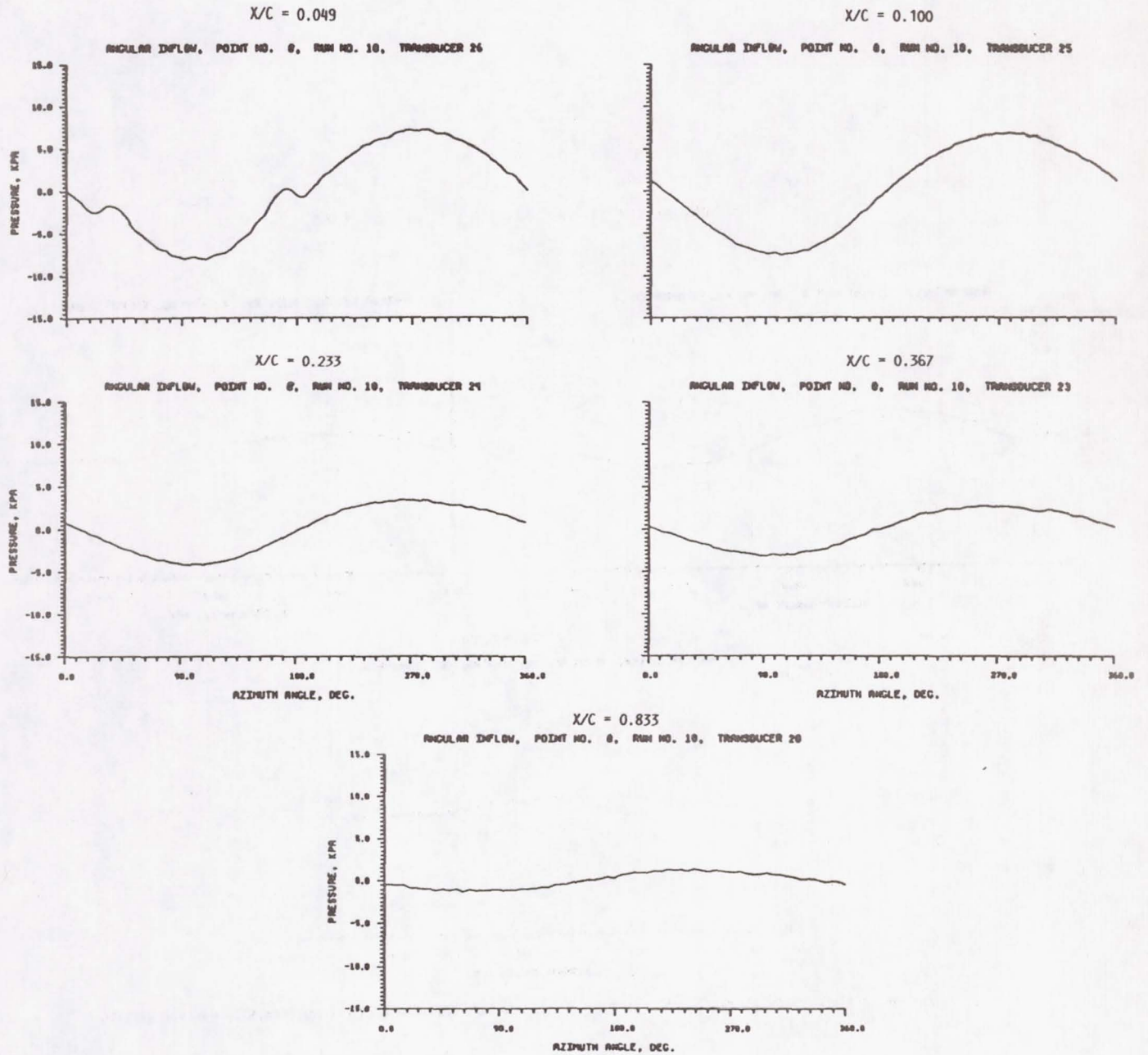


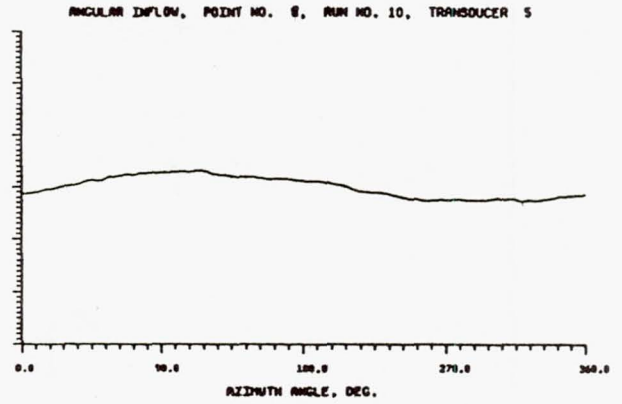
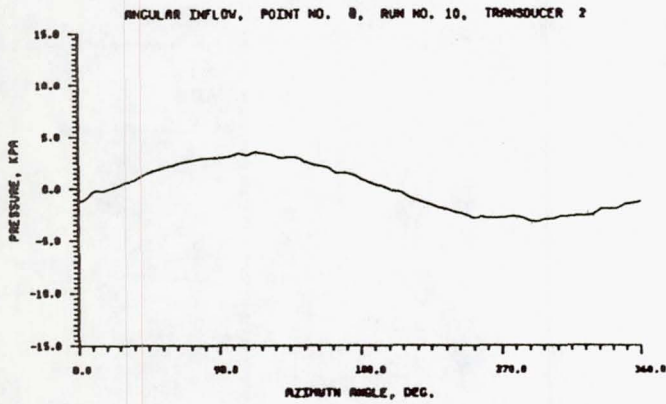
FIGURE 14. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH ANGULAR INFLOW.

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PRESSURE SIDE AT $r/R = 0.91$ $M_\infty = .501$ $J = 3.063$

$X/C = 0.299$

$X/C = 0.698$



$X/C = 0.898$

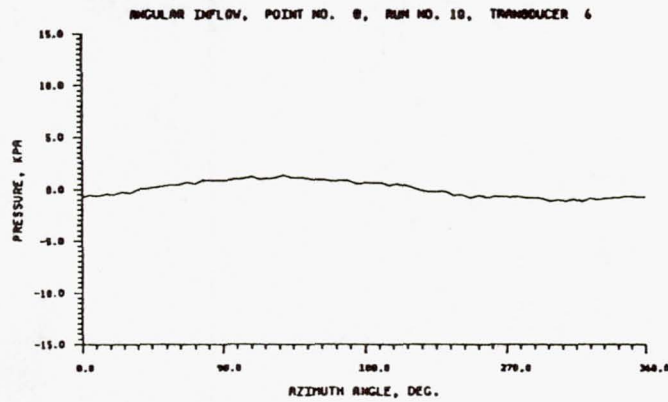


FIGURE 15. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH ANGULAR INFLOW.

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SUCTION SIDE AT $r/R = 0.91$ $M_{\infty} = .501$ $J = 3.063$

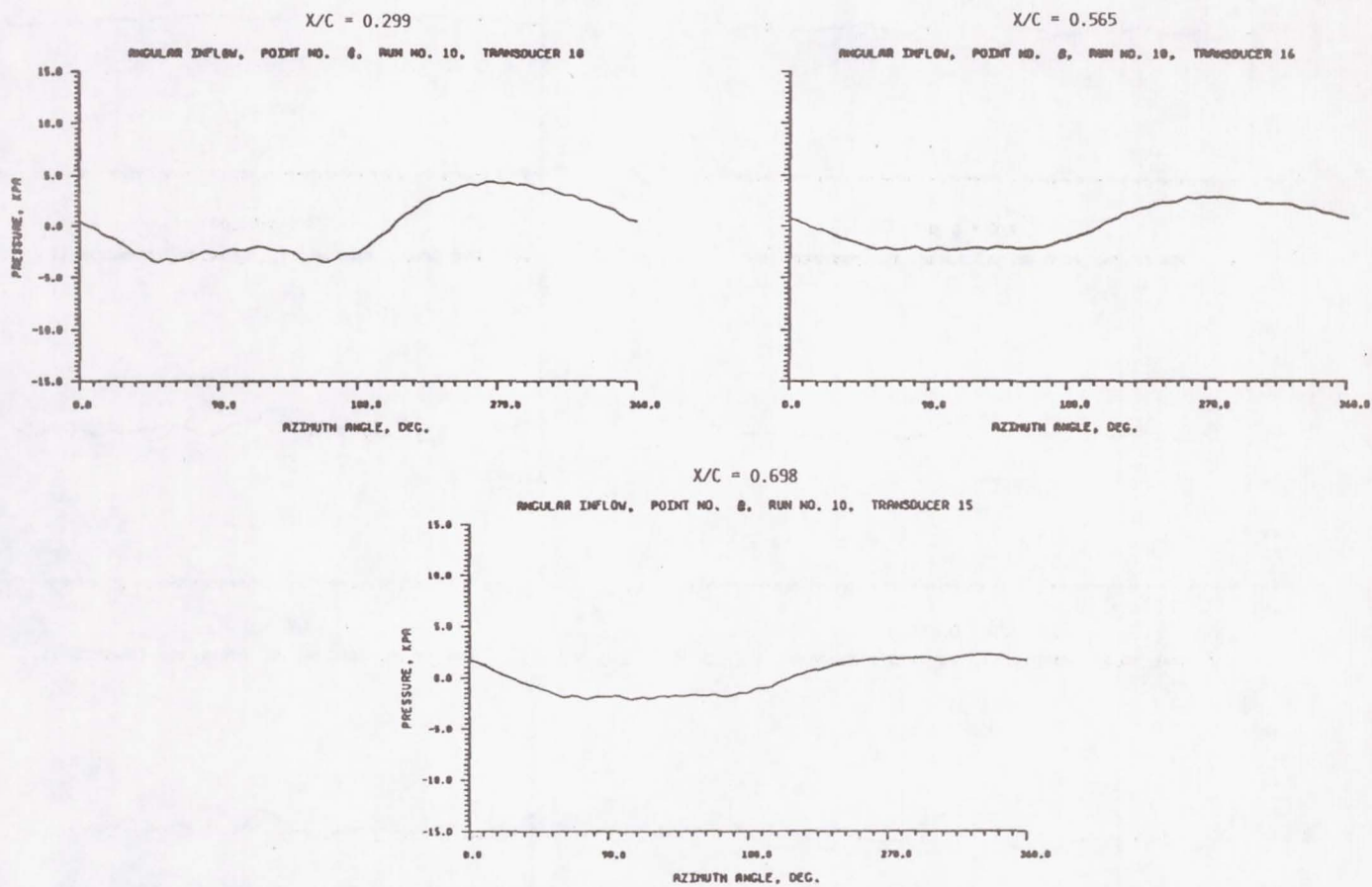


FIGURE 16. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH ANGULAR INFLOW.

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PRESSURE SIDE $r/R = 0.64$ $M_\infty = .501$ $J = 3.063$

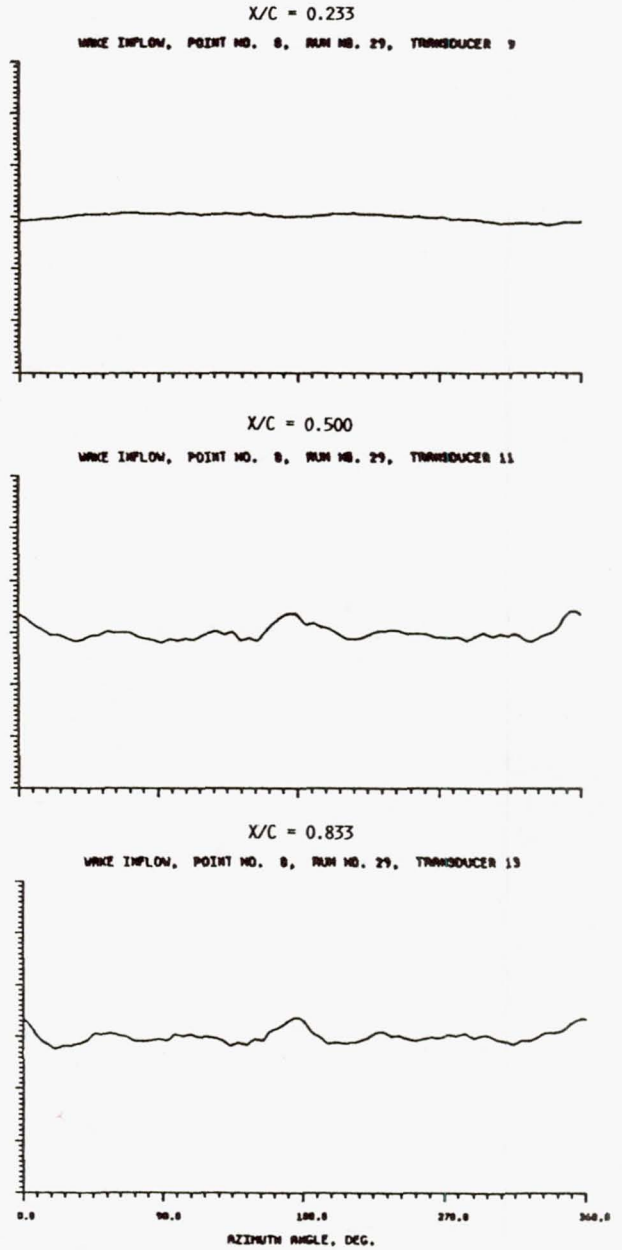
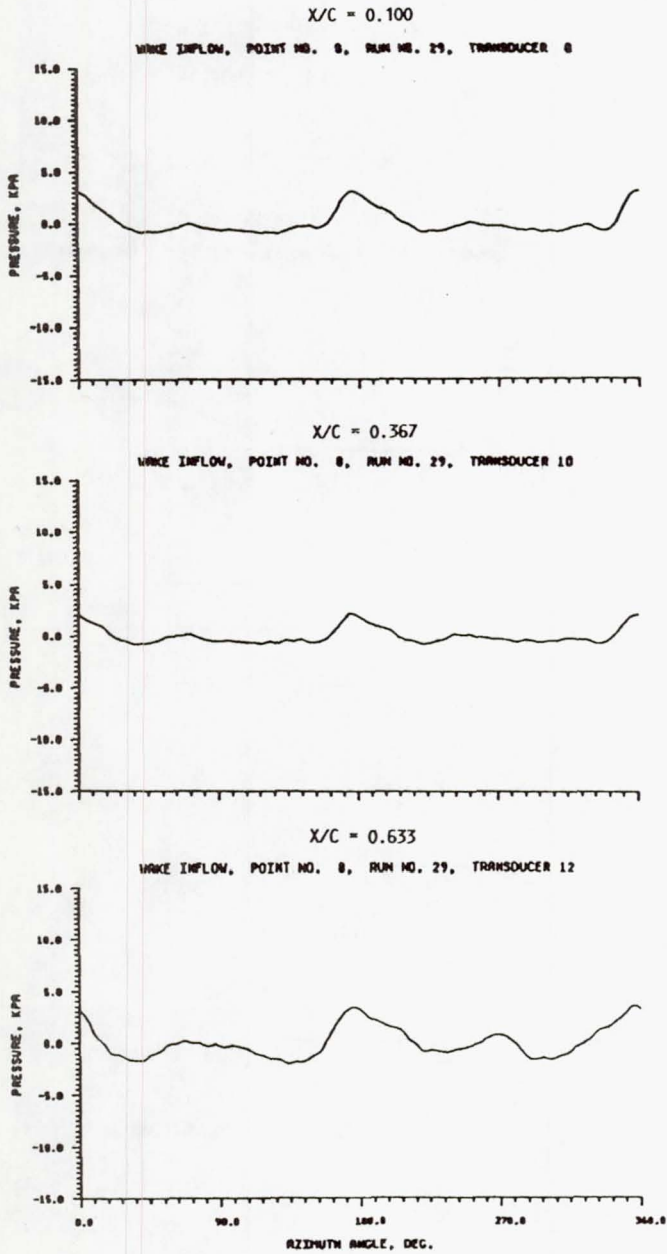


FIGURE 17. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH WAKE INFLOW.

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SUCTION SIDE $r/R = 0.64$ $M_{\infty} = .500$ $J = 3.063$

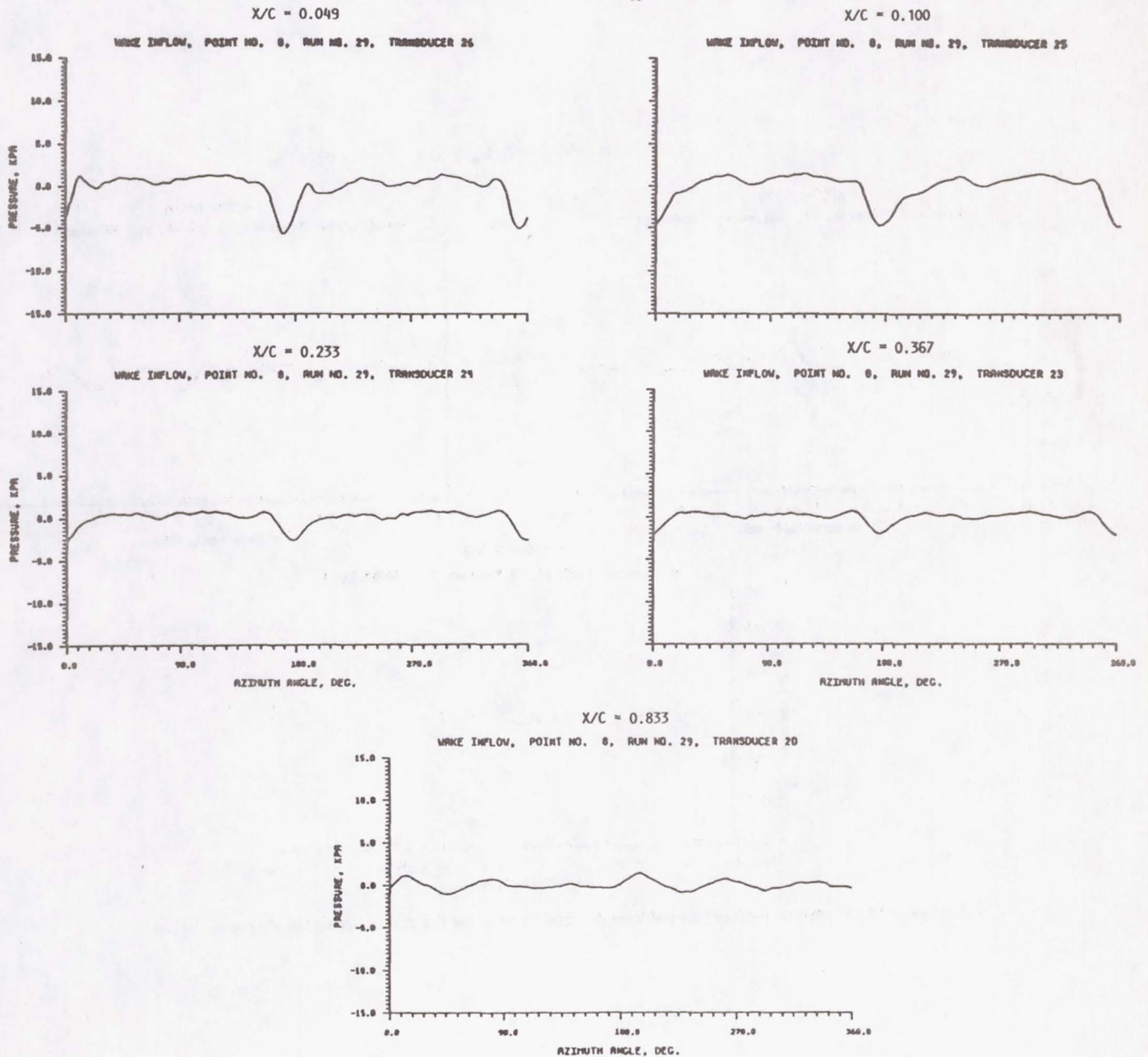


FIGURE 18. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH WAKE INFLOW.

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PRESSURE SIDE $r/R = 0.91$ $M_\infty = .500$ $J = 3.3.063$

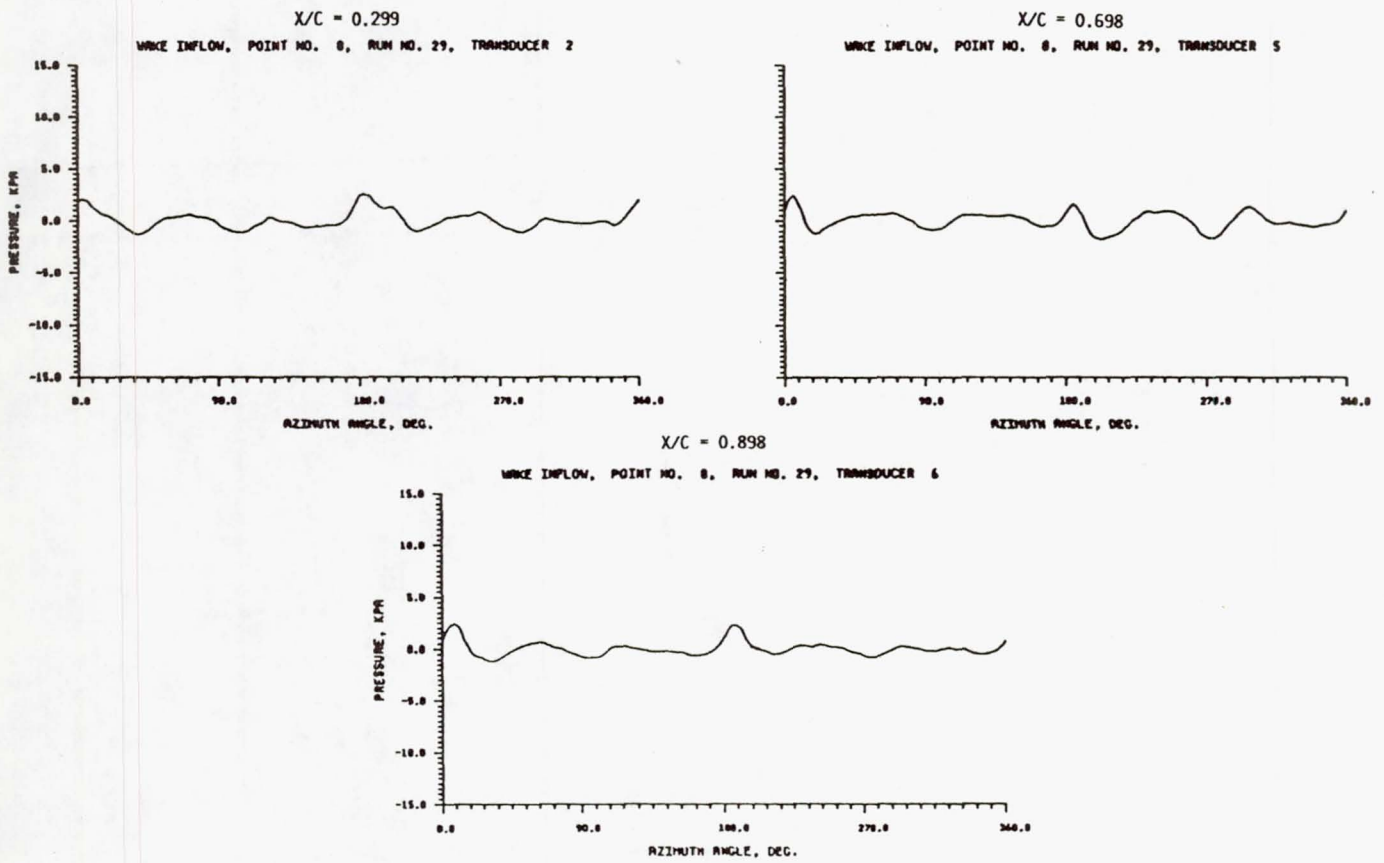


FIGURE 19. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH WAKE INFLOW.

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SUCTION SIDE AT $r/R = 0.91$ $M_\infty = .500$ $J = 3.063$

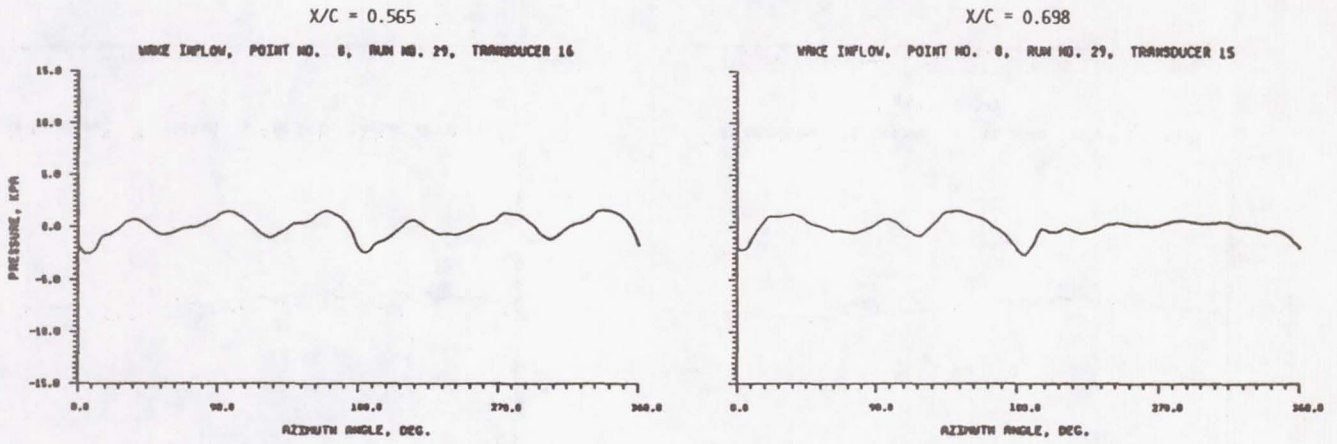


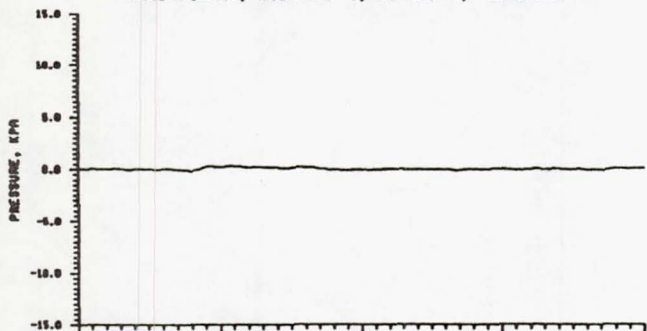
FIGURE 20. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR CRUISE CONDITION WITH WAKE INFLOW.

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PRESSURE SIDE AT $r/R = 0.64$ $M_\infty = .199$ $J = .881$

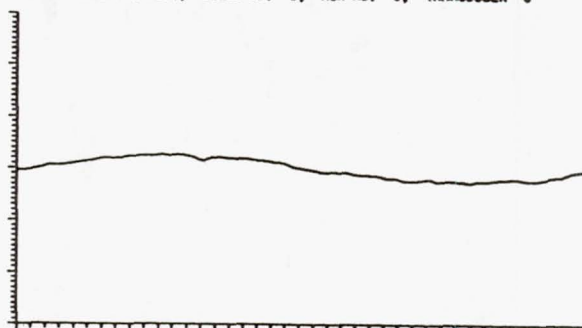
$X/C = 0.049$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 7



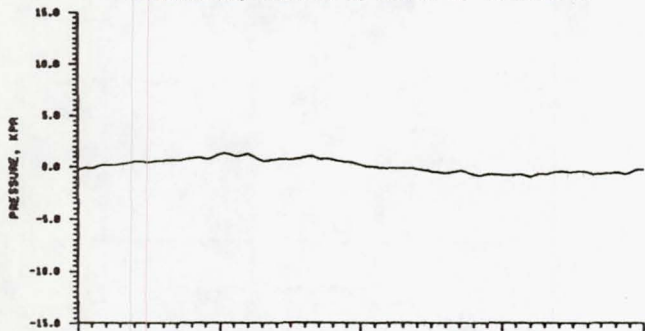
$X/C = 0.100$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 8



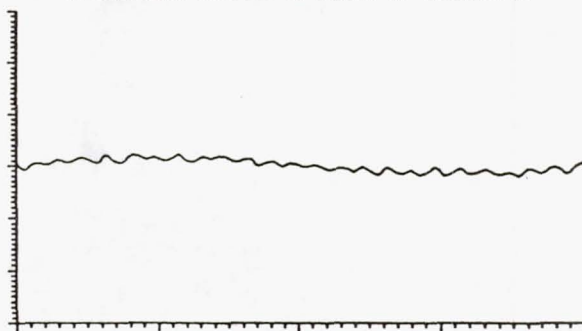
$X/C = 0.367$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 10



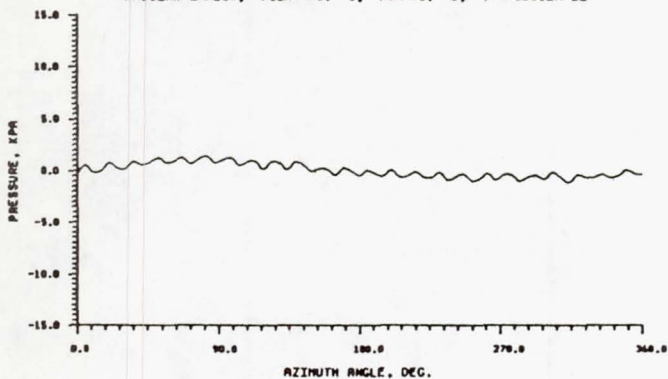
$X/C = 0.500$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 11



$X/C = 0.633$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 12



$X/C = 0.833$

ANGULAR INFLOW, POINT NO. 6, RUN NO. 8, TRANSDUCER 13

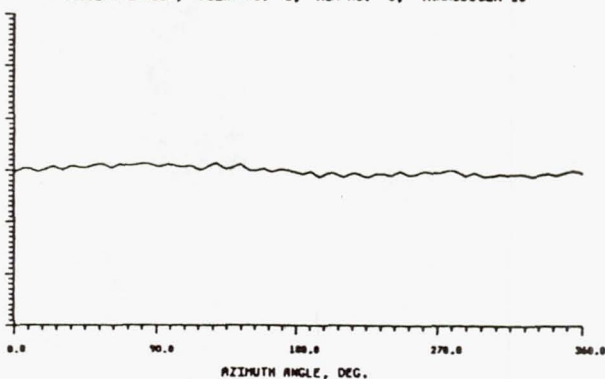


FIGURE 21. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH ANGULAR INFLOW.

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SUCTION SIDE AT $r/R = 0.64$ $M_\infty = .199$ $J = .881$

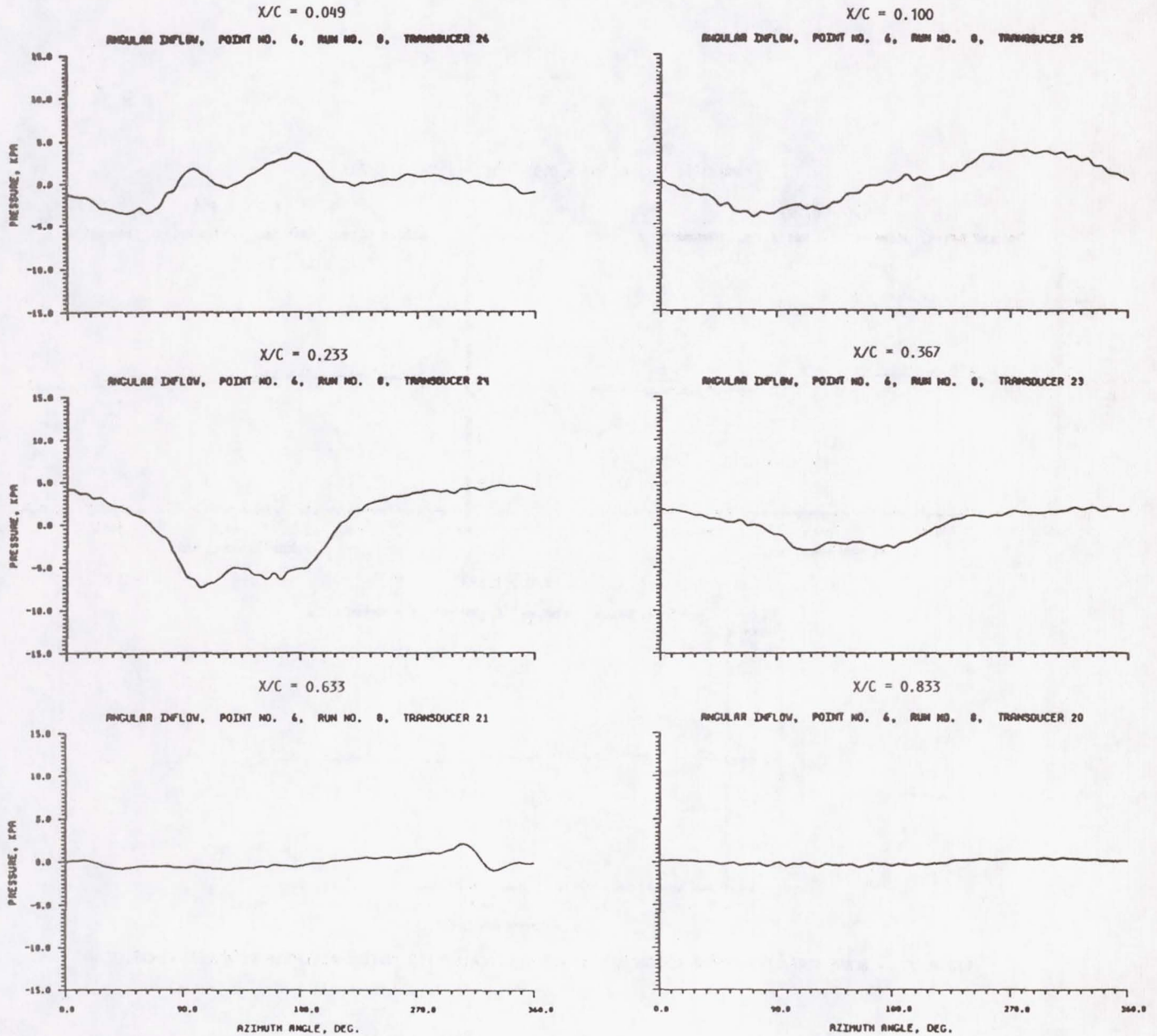


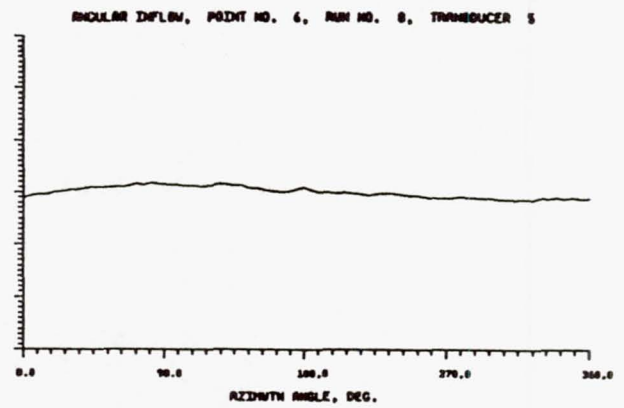
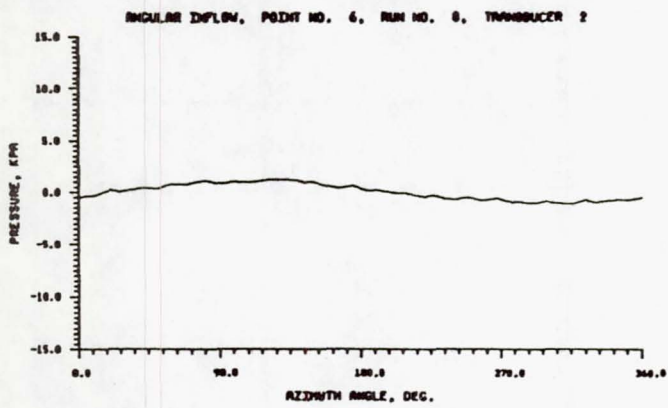
FIGURE 22. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH ANGULAR INFLOW.

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PRESSURE SIDE AT $r/R = 0.91$ $M_\infty = .199$ $J = .881$

$X/C = 0.299$

$X/C = 0.698$



$X/C = 0.898$

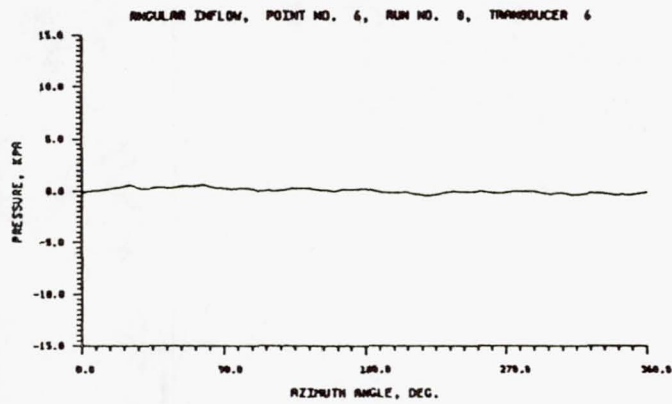


FIGURE 23. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH ANGULAR INFLOW.

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SUCTION SIDE AT $r/R = 0.91$ $M_{\infty} = .199$ $J = .881$

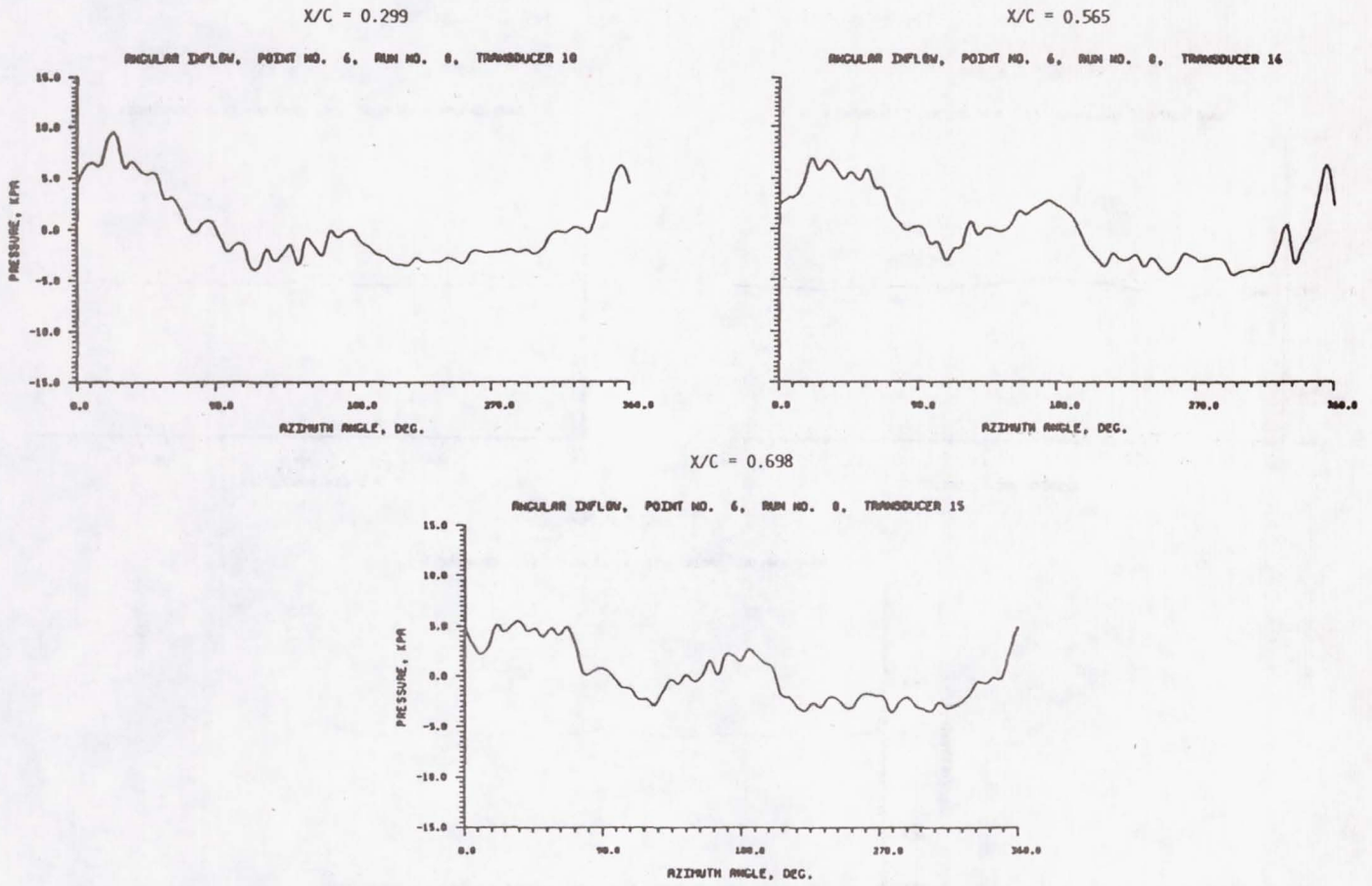


FIGURE 24. - BLADE SURFACE PRESSURE AS FUNCTION OF AXIMUTH LOCATION FOR TAKEOFF CONDITON WITH ANGULAR INFLOW.

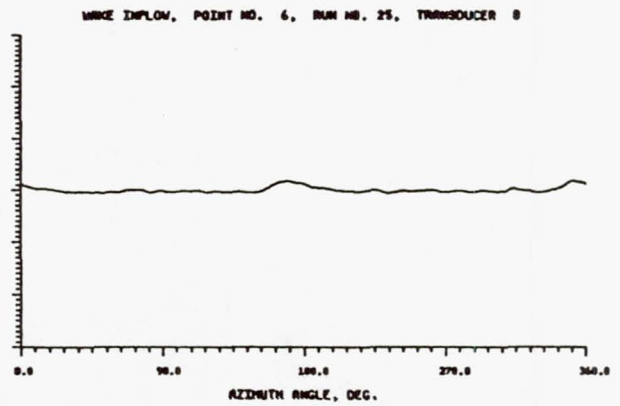
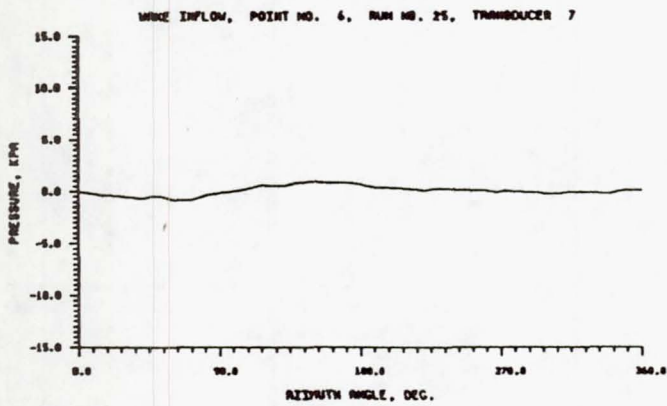
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BLADE SURFACE PRESSURE
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PRESSURE SIDE AT $r/R = 0.64$ $M_\infty = .199$ $J = .881$

$X/C = 0.049$

$X/C = 0.100$



$X/C = 0.367$

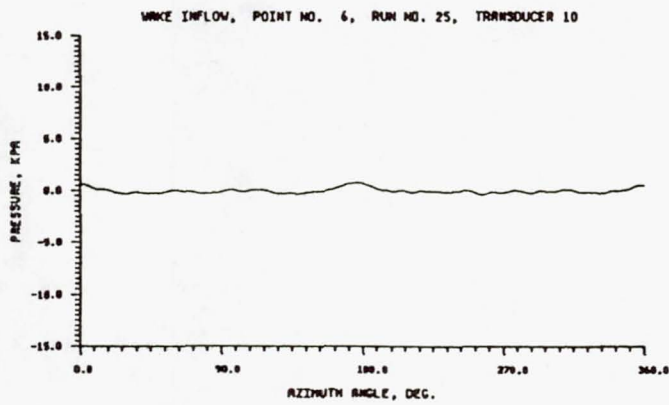


FIGURE 25. - BLADE SURFACE PRESSURE AS FUNCTION OF AXIMUTH LOCATION FOR TAKEOFF CONDITON WITH ANGULAR INFLOW.

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SUCTION SIDE AT $r/R = 0.64$

$M_{\infty} = .199$ $J = .881$

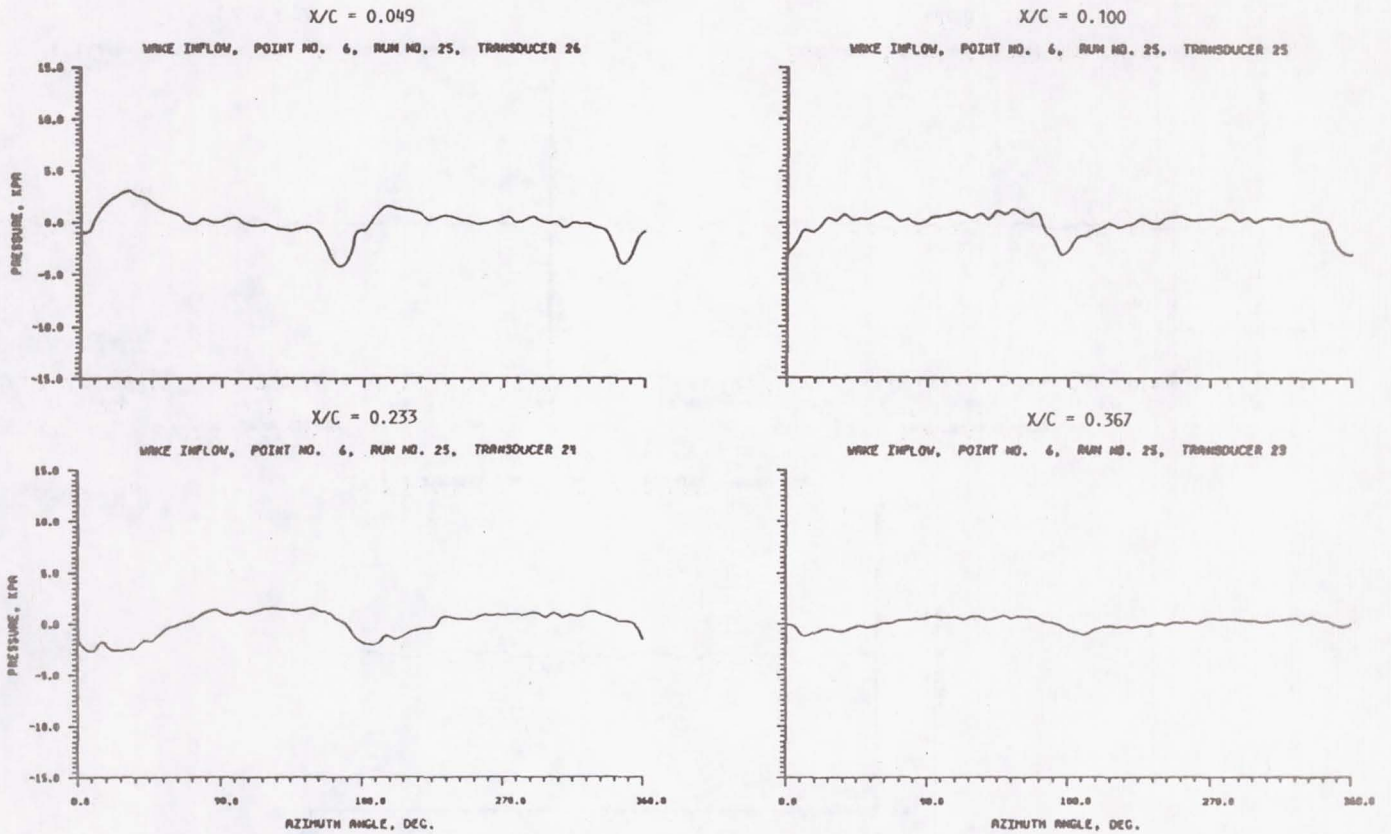


FIGURE 26. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH WAKE INFLOW.

PRESSURE SIDE AT $r/R = 0.91$ $M_\infty = .199$ $J = .881$

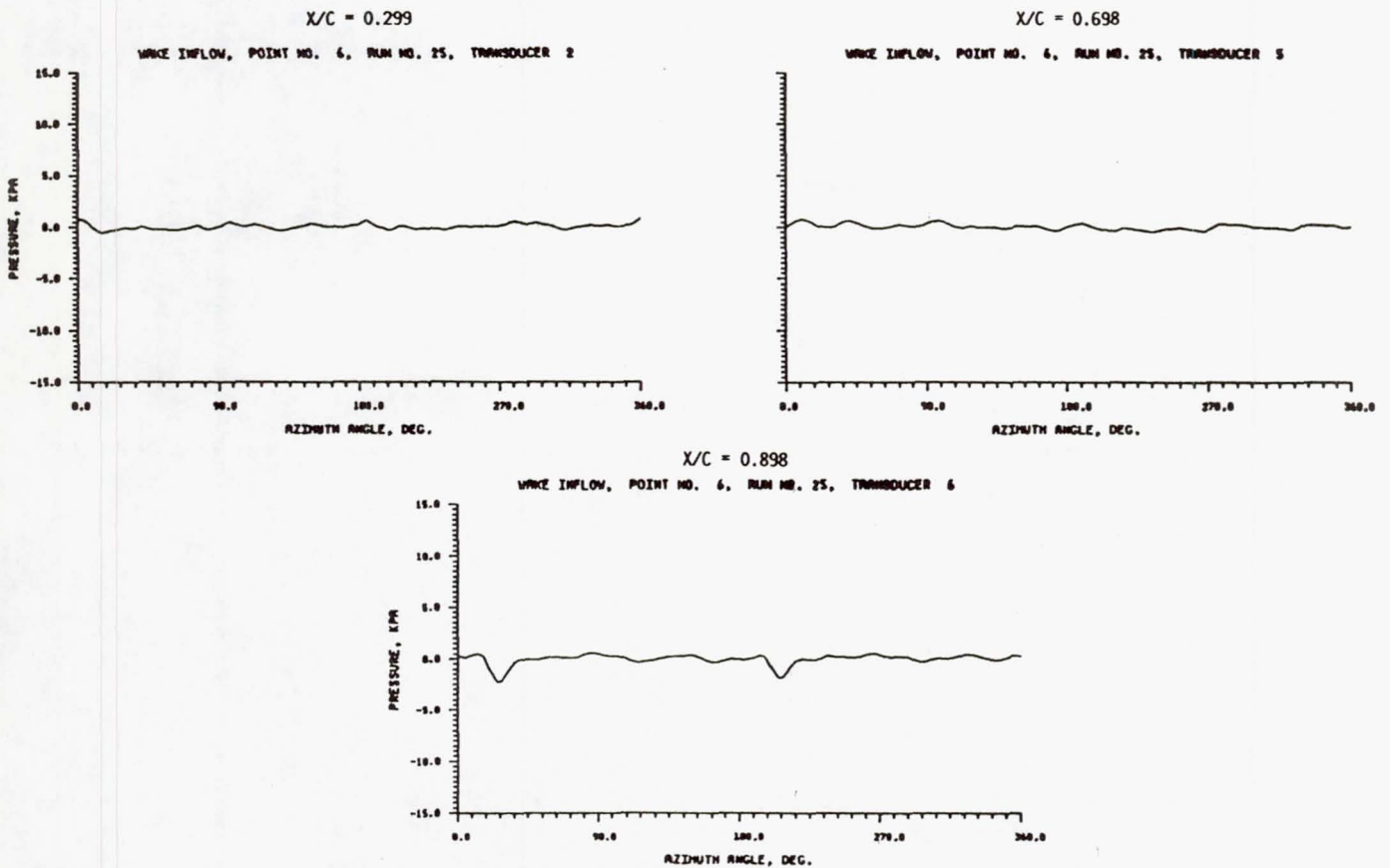


FIGURE 27. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH WAKE INFLOW.

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SUCTION SIDE AT $r/R = 0.91$

$M_{\infty} = .199$ $J = .188$

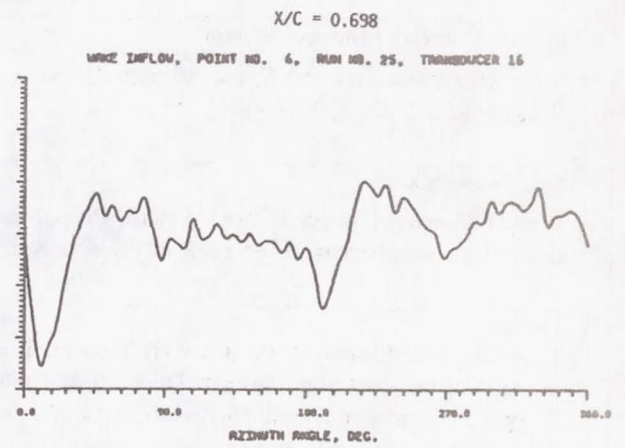
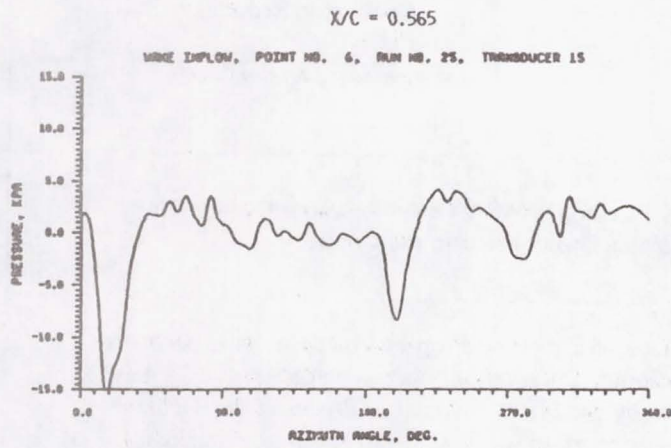


FIGURE 28. - BLADE SURFACE PRESSURE AS FUNCTION OF AZIMUTH LOCATION FOR TAKEOFF CONDITION WITH WAKE INFLOW.

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1. Report No. NASA CR-182123		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Measurement of Unsteady Blade Surface Pressure on a Single Rotation Large Scale Advanced Prop-Fan With Angular and Wake Inflow at Mach Numbers From 0.02 to 0.70				5. Report Date October 1988	
				6. Performing Organization Code	
7. Author(s) P. Bushnell, M. Gruber, and D. Parzych				8. Performing Organization Report No. None (E-4137)	
				10. Work Unit No. 505-03-01	
9. Performing Organization Name and Address Hamilton Standard Division United Technologies Corporation Windsor Locks, Connecticut 06096				11. Contract or Grant No. NAS3-23051	
				13. Type of Report and Period Covered Contractor Report Final	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546-0001				14. Sponsoring Agency Code	
15. Supplementary Notes Project Manager, Julius J. Notardonato, Propulsion Systems Division, NASA Lewis Research Center. The microfiche supplement at the back of the report contains the appendixes listed in the Contents.					
16. Abstract Unsteady aerodynamic pressures were measured on the surface of a rotating Prop-Fan blade in an experiment performed by Hamilton Standard Division of United Technologies Corporation, under contract to NASA-Lewis Research Center, at the S1-MA wind tunnel facility operated by the office National D'Etudes et de Recherches Aeronautique (ONERA) in Modane, France. The objectives of the experiment were to measure the periodic variations of blade surface pressure resulting from two non-uniform inflow conditions: first, inflow at a three degree angle to the Prop-Fan axis of rotation, and second, inflow with a wake generated by a cylinder mounted upstream of the rotor. In addition, unsteady pressures were measured under uniform inflow conditions to determine background response levels. The range of Prop-Fan operating conditions included inflow Mach numbers from 0.02 to 0.70. For most of the inflow Mach numbers, more than one power coefficient and/or advance ratio was investigated. Due to facility power limitations the Prop-Fan test installation was a two bladed version of the eight bladed design configuration. The power coefficient range investigated was therefore selected to cover typical power loading per blade conditions which occur within the Prop-Fan operating envelope. This report provides unsteady blade surface pressure data for the LAP Prop-Fan blade operation with angular inflow, wake inflow and uniform flow over a range of inflow Mach numbers of 0.02 to 0.70. The data are presented as Fourier coefficients for the first 35 harmonics of shaft rotational frequency. Also presented is a brief discussion of the unsteady blade response observed at takeoff and cruise conditions with angular and wake inflow.					
17. Key Words (Suggested by Author(s)) Prop-Fan			18. Distribution Statement Date for general release <u>October 1990</u> Subject Category 07		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No of pages 45	22. Price* A03

APPENDIX A
UNIFORM INFLOW DATA

UNIFORM INFLOW

RUN NUMBER 82

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.013
 ADVANCE RATIO: 0.188 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	-0.01	-0.001	-0.01	-0.001	0.01	0.002
3	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.02	-0.003	0.01	0.001	0.02	0.003
5	0.01	0.001	-0.02	-0.003	0.02	0.003
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	-0.02	-0.003	-0.01	-0.001	0.02	0.003
9	-0.01	-0.001	0.03	0.004	0.03	0.005
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.03	0.004	0.03	0.004
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.05	-0.007	-0.02	-0.003	0.05	0.008
27	0.03	0.004	-0.01	-0.001	0.03	0.005
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 32

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.013
 ADVANCE RATIO: 0.138 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	0.01	0.001	0.00	0.000	0.01	0.001
3	0.01	0.001	-0.03	-0.004	0.03	0.005
4	0.01	0.001	-0.01	-0.001	0.01	0.002
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 32

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.018
 ADVANCE RATIO: 0.138 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	0.01	0.001	0.00	0.000	0.01	0.001
3	0.01	0.001	-0.03	-0.004	0.03	0.005
4	0.01	0.001	-0.01	-0.001	0.01	0.002
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 32

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.018
 ADVANCE RATIO: 0.138 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 86.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.01	-0.001	0.01	0.001
2	-0.01	-0.001	0.00	0.000	0.01	0.001
3	-0.06	-0.009	0.02	0.003	0.06	0.009
4	0.01	0.001	0.03	0.004	0.03	0.005
5	0.00	0.000	-0.02	-0.003	0.02	0.003
6	0.02	0.003	0.00	0.000	0.02	0.003
7	0.07	0.010	-0.04	-0.006	0.08	0.012
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.04	0.006	0.02	0.003	0.04	0.006
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.01	0.001	0.01	0.001	0.01	0.002
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.02	0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 82

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.018
 ADVANCE RATIO: 0.188 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.01	-0.001	0.01	0.001
2	0.00	0.000	-0.03	-0.004	0.03	0.004
3	0.03	0.012	-0.06	-0.009	0.10	0.015
4	-0.04	-0.006	0.00	0.000	0.04	0.006
5	-0.05	-0.007	0.04	0.006	0.06	0.009
6	0.00	0.000	0.03	0.004	0.03	0.004
7	-0.01	-0.001	0.04	0.006	0.04	0.006
8	-0.02	-0.003	0.06	0.009	0.06	0.009
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.03	0.004	0.00	0.000	0.03	0.004
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	-0.05	-0.007	0.00	0.000	0.05	0.007
13	0.05	0.007	0.01	0.001	0.05	0.007
14	-0.01	-0.001	-0.02	-0.003	0.02	0.003
15	0.02	0.003	-0.02	-0.003	0.03	0.004
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.03	0.004	0.00	0.000	0.03	0.004
18	0.02	0.003	0.04	0.006	0.04	0.006
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.02	0.003	0.02	0.003
21	0.00	0.000	-0.07	-0.010	0.07	0.010
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.02	-0.003	0.02	0.003	0.03	0.004
24	-0.02	-0.003	0.04	0.006	0.04	0.006
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.01	0.001	0.03	0.004	0.03	0.005
29	0.04	0.006	0.02	0.003	0.04	0.006
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.01	0.001	-0.04	-0.006	0.04	0.006
32	-0.03	-0.004	0.00	0.000	0.03	0.004
33	0.00	0.000	-0.02	-0.003	0.02	0.003
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.01	-0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 32

POINT NUMBER: 4
 MACH NUMBER: 0.022 +/- 0.013
 ADVANCE RATIO: 0.138 +/- 0.079
 POWER COEFFICIENT: 0.208 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1202 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHGRD: 83.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	-0.02	-0.003	0.02	0.003
2	0.01	0.001	0.02	0.003	0.02	0.003
3	-0.01	-0.001	-0.01	-0.001	0.01	0.002
4	0.02	0.003	0.00	0.000	0.02	0.003
5	0.00	0.000	0.03	0.004	0.03	0.004
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.00	0.000	0.01	0.001	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.00	0.000	0.03	0.004	0.03	0.004
14	0.00	0.000	0.02	0.003	0.02	0.003
15	-0.02	-0.003	0.04	0.006	0.04	0.006
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	-0.04	-0.006	-0.01	-0.001	0.04	0.006
18	0.00	0.000	0.03	0.004	0.03	0.004
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	-0.04	-0.006	0.00	0.000	0.04	0.006
21	0.00	0.000	0.02	0.003	0.02	0.003
22	-0.02	-0.003	0.01	0.001	0.02	0.003
23	0.02	0.003	-0.03	-0.004	0.04	0.005
24	0.01	0.001	-0.02	-0.003	0.02	0.003
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	-0.03	-0.004	0.03	0.004
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-b

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	0.01	0.001	0.00	0.000	0.01	0.001
3	0.02	0.003	-0.01	-0.001	0.02	0.003
4	-0.01	-0.001	0.01	0.001	0.01	0.002
5	0.01	0.001	0.00	0.000	0.01	0.001
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	-0.01	-0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.02	0.003	0.02	0.003
15	0.02	0.003	0.01	0.001	0.02	0.003
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.04	0.006	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	0.00	0.000	0.02	0.003
2	-0.02	-0.003	0.00	0.000	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	-0.01	-0.001	0.00	0.000	0.01	0.001
6	0.02	0.003	0.01	0.001	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.01	0.001	0.01	0.001
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.04	-0.006	-0.01	-0.001	0.04	0.006
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.01	0.001	0.01	0.001
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	-0.01	-0.001	0.01	0.001
80	0.00	0.000	0.00	0.000	0.00	0.000
81	0.00	0.000	0.00	0.000	0.00	0.000
82	-0.02	-0.003	0.00	0.000	0.02	0.003
83	0.02	0.003	-0.01	-0.001	0.02	0.003
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.01	0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 33

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 8 RATIO: 0.641 CHORD: 10.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	0.00	0.000	0.01	0.001
2	-0.02	-0.003	0.01	0.001	0.02	0.003
3	0.01	0.001	0.01	0.001	0.01	0.002
4	0.00	0.000	-0.02	-0.003	0.02	0.003
5	-0.01	-0.001	-0.01	-0.001	0.01	0.002
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSY)
1	-0.03	-0.004	0.00	0.000	0.03	0.004
2	0.01	0.001	-0.01	-0.001	0.01	0.002
8	0.21	0.030	-0.10	-0.015	0.23	0.034
4	0.01	0.001	0.00	0.000	0.01	0.001
5	0.07	0.010	-0.06	-0.009	0.09	0.013
6	-0.02	-0.003	-0.21	-0.030	0.21	0.031
7	0.07	0.010	0.06	0.009	0.09	0.013
8	0.00	0.000	-0.05	-0.007	0.05	0.007
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.07	0.010	0.02	0.003	0.07	0.011
12	0.00	0.000	0.01	0.001	0.01	0.001
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
14	-0.02	-0.003	0.03	0.004	0.04	0.005
15	0.00	0.000	-0.02	-0.004	0.03	0.004
16	0.00	0.000	-0.03	-0.004	0.03	0.004
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.03	0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.07	0.010	-0.03	-0.004	0.08	0.011
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.02	0.003	-0.01	-0.001	0.02	0.003
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	-0.03	-0.004	0.03	0.004
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	-0.03	-0.004	0.00	0.000	0.03	0.004
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.03	0.004	0.00	0.000	0.03	0.004
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.02	0.003	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.004	-0.02	-0.003	0.04	0.005
2	-0.02	-0.003	0.04	0.006	0.04	0.006
8	-0.05	-0.007	-0.01	-0.001	0.05	0.007
4	0.27	0.039	-0.15	-0.022	0.31	0.045
5	0.08	0.012	-0.06	-0.009	0.10	0.015
6	-0.08	-0.012	0.12	0.017	0.14	0.021
7	-0.02	-0.003	0.11	0.016	0.11	0.016
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	-0.03	-0.004	-0.02	-0.003	0.04	0.005
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.01	0.001	0.02	0.003	0.02	0.003
14	-0.03	-0.004	0.05	0.007	0.06	0.008
15	-0.04	-0.006	0.00	0.000	0.04	0.006
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.02	0.003	0.01	0.001	0.02	0.003
20	0.02	0.003	0.00	0.000	0.02	0.003
21	-0.01	-0.001	0.03	0.004	0.03	0.005
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 12 RATIO: 0.641 CHORD: 63.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	-0.03	-0.004	0.03	0.005
2	0.00	0.000	-0.01	-0.001	0.01	0.001
3	0.02	0.003	0.00	0.000	0.02	0.003
4	-0.02	-0.003	-0.01	-0.001	0.02	0.003
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.00	0.000	0.00	0.000
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.01	0.001	0.01	0.001
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.02	-0.003	0.02	0.003
2	0.00	0.000	0.02	0.003	0.02	0.003
3	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.04	-0.006	-0.01	-0.001	0.04	0.006
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	0.00	0.000	0.03	0.004	0.03	0.004
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	0.00	0.000	0.01	0.001
12	-0.02	-0.003	-0.02	-0.003	0.03	0.004
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.04	0.006	0.04	0.006
16	-0.04	-0.006	0.00	0.000	0.04	0.006
17	0.00	0.000	0.03	0.004	0.03	0.004
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	0.01	0.001	-0.03	-0.004	0.03	0.005
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	-0.02	-0.003	-0.03	-0.004	0.04	0.005
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.02	0.003	0.01	0.001	0.02	0.003
26	0.01	0.001	0.02	0.003	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	0.02	0.003	0.02	0.003
29	0.01	0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.02	-0.003	-0.03	-0.004	0.04	0.005
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.01	-0.001	0.01	0.001
2	0.05	0.007	0.01	0.001	0.05	0.007
8	0.01	0.001	0.20	0.029	0.20	0.029
4	0.18	0.026	-0.05	-0.007	0.19	0.027
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.08	0.012	-0.02	-0.003	0.08	0.012
7	-0.08	-0.012	0.09	0.013	0.12	0.017
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.02	-0.003	0.02	0.003	0.03	0.004
10	0.01	0.001	0.06	0.009	0.06	0.009
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.03	0.004	0.01	0.001	0.03	0.005
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.05	0.007	0.01	0.001	0.05	0.007
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.07	-0.010	-0.01	-0.001	0.07	0.010
18	0.01	0.001	-0.03	-0.004	0.03	0.005
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.02	0.003	0.00	0.000	0.02	0.003
21	-0.02	-0.003	0.01	0.001	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.02	-0.003	0.01	0.001	0.02	0.003
24	0.05	0.007	-0.02	-0.003	0.05	0.008
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	-0.04	-0.006	0.04	0.006
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.03	-0.004	0.03	0.004
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	-0.01	-0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.01	0.001	-0.03	-0.004	0.03	0.005

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 5
 MACH NUMBER: 0.201 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.100 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1686 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	-0.01	-0.001	0.01	0.002
2	-0.01	-0.001	-0.01	-0.001	0.01	0.002
3	0.04	0.006	0.01	0.001	0.04	0.006
4	-0.07	-0.010	-0.10	-0.015	0.12	0.018
5	0.00	0.000	-0.02	-0.003	0.02	0.003
6	0.02	0.003	0.00	0.000	0.02	0.003
7	0.00	0.000	-0.03	-0.004	0.03	0.004
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.02	0.003	-0.02	-0.003	0.03	0.004
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A 15

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 2 RATIO: 0.906 CHORD: 29.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.15	0.022	0.15	0.022
2	0.03	0.004	-0.01	-0.001	0.03	0.005
8	-0.02	-0.003	-0.08	-0.012	0.08	0.012
4	-0.03	-0.004	0.02	0.003	0.04	0.005
5	0.02	0.003	-0.03	-0.004	0.04	0.005
6	-0.02	-0.003	0.01	0.001	0.02	0.003
7	0.02	0.003	0.05	0.007	0.05	0.008
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	0.03	0.004	0.02	0.003	0.04	0.005
11	0.00	0.000	-0.02	-0.003	0.02	0.003
12	0.01	0.001	0.02	0.003	0.02	0.003
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.02	0.003	0.02	0.003
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.03	-0.004	0.00	0.000	0.03	0.004
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.02	0.003	0.02	0.003
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.02	-0.003	-0.01	-0.001	0.02	0.003
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

UNIFORM INFLOW

RUN NUMBER 34

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.36	0.052	0.02	0.003	0.36	0.052
2	-0.26	-0.038	-0.08	-0.012	0.27	0.039
3	-0.11	-0.016	-0.07	-0.010	0.13	0.019
4	-0.01	-0.001	-0.10	-0.015	0.10	0.015
5	0.11	0.016	-0.06	-0.009	0.18	0.018
6	0.05	0.007	0.13	0.019	0.14	0.020
7	-0.09	-0.013	0.13	0.019	0.16	0.023
8	-0.10	-0.015	-0.04	-0.006	0.11	0.016
9	0.00	0.000	-0.08	-0.012	0.08	0.012
10	0.11	0.016	-0.01	-0.001	0.11	0.016
11	0.05	0.007	0.07	0.010	0.09	0.012
12	-0.05	-0.007	0.12	0.017	0.13	0.019
13	-0.10	-0.015	-0.05	-0.007	0.11	0.016
14	0.00	0.000	-0.11	-0.016	0.11	0.016
15	0.07	0.010	0.00	0.000	0.07	0.010
16	0.05	0.007	0.09	0.013	0.10	0.015
17	-0.05	-0.007	0.09	0.013	0.10	0.015
18	-0.10	-0.015	-0.05	-0.007	0.11	0.016
19	-0.01	-0.001	-0.09	-0.013	0.09	0.013
20	0.09	0.013	-0.04	-0.006	0.10	0.014
21	0.03	0.004	0.10	0.015	0.10	0.015
22	-0.07	-0.010	0.09	0.013	0.11	0.017
23	-0.07	-0.010	-0.02	-0.003	0.07	0.011
24	0.00	0.000	-0.11	-0.016	0.11	0.016
25	0.13	0.019	-0.01	-0.001	0.13	0.019
26	0.04	0.006	0.10	0.015	0.11	0.016
27	-0.08	-0.012	0.08	0.012	0.11	0.016
28	-0.08	-0.012	-0.05	-0.007	0.09	0.014
29	-0.05	-0.007	-0.06	-0.009	0.08	0.011
30	0.11	0.016	0.00	0.000	0.11	0.016
31	0.00	0.000	0.09	0.013	0.09	0.013
32	-0.09	-0.013	0.02	0.003	0.09	0.013
33	-0.04	-0.006	-0.08	-0.012	0.09	0.013
34	0.06	0.009	-0.06	-0.009	0.08	0.012
35	0.05	0.007	0.03	0.004	0.06	0.008

A47

UNIFORM INFLOW

RUN NUMBER 34

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.08	0.012	0.09	0.013
2	0.02	0.003	-0.05	-0.007	0.05	0.008
3	-0.07	-0.010	-0.04	-0.006	0.08	0.012
4	0.01	0.001	0.01	0.001	0.01	0.002
5	0.02	0.003	-0.06	-0.009	0.06	0.009
6	-0.03	-0.004	0.01	0.001	0.03	0.005
7	-0.03	-0.004	0.01	0.001	0.03	0.005
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	-0.03	-0.004	-0.01	-0.001	0.03	0.005
10	0.01	0.001	0.04	0.006	0.04	0.006
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.01	0.001	-0.03	-0.004	0.03	0.005
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.04	0.006	0.00	0.000	0.04	0.006
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 34

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.16	0.023	0.16	0.023
2	0.01	0.001	0.00	0.000	0.01	0.001
3	0.07	0.010	0.00	0.000	0.07	0.010
4	-0.04	-0.006	0.01	0.001	0.04	0.006
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	-0.03	-0.004	0.03	0.004	0.04	0.006
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.02	0.003	0.03	0.004	0.04	0.005
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	0.02	0.003	0.02	0.003
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	-0.01	-0.001	-0.01	-0.001	0.01	0.002
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.02	0.003	0.01	0.001	0.02	0.003
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	-0.02	-0.003	0.03	0.004
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A19

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.19	0.028	0.19	0.028
2	0.00	0.000	0.01	0.001	0.01	0.001
8	0.00	0.000	-0.02	-0.003	0.02	0.003
4	-0.03	-0.004	-0.03	-0.004	0.04	0.006
5	0.00	0.000	-0.03	-0.004	0.03	0.004
6	0.01	0.001	0.00	0.000	0.01	0.001
7	-0.02	-0.003	0.04	0.006	0.04	0.006
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	0.02	0.003	0.00	0.000	0.02	0.003
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	-0.01	-0.001	0.05	0.007	0.05	0.007
18	-0.02	-0.003	-0.03	-0.004	0.04	0.005
14	0.00	0.000	-0.04	-0.006	0.04	0.006
15	0.04	0.006	0.04	0.006	0.06	0.008
16	0.02	0.003	0.03	0.004	0.04	0.005
17	0.00	0.000	0.02	0.003	0.02	0.003
18	-0.03	-0.004	-0.01	-0.001	0.08	0.005
19	0.05	0.007	0.00	0.000	0.05	0.007
20	0.03	0.004	-0.02	-0.003	0.04	0.005
21	0.01	0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	0.03	0.004	0.03	0.005
28	-0.02	-0.003	-0.01	-0.001	0.02	0.003
24	0.01	0.001	-0.03	-0.004	0.03	0.005
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.02	0.003	0.01	0.001	0.02	0.003
27	-0.02	-0.003	0.01	0.001	0.02	0.003
28	-0.02	-0.003	-0.02	-0.003	0.03	0.004
29	0.00	0.000	0.00	0.000	0.00	0.000
80	0.00	0.000	0.00	0.000	0.00	0.000
81	0.02	0.003	0.03	0.004	0.04	0.005
82	-0.02	-0.003	0.00	0.000	0.02	0.003
88	-0.03	-0.004	-0.03	-0.004	0.04	0.006
84	0.01	0.001	-0.01	-0.001	0.01	0.002
85	0.01	0.001	0.01	0.001	0.01	0.002

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.14	0.020	0.12	0.017	0.18	0.027
2	-0.09	-0.018	0.03	0.004	0.09	0.014
8	-0.03	-0.004	-0.06	-0.009	0.07	0.010
4	-0.05	-0.007	-0.10	-0.015	0.11	0.016
5	0.09	0.013	-0.07	-0.010	0.11	0.017
6	0.06	0.009	0.04	0.006	0.07	0.010
7	-0.01	-0.001	0.15	0.022	0.15	0.022
8	-0.11	-0.016	0.02	0.003	0.11	0.016
9	-0.03	-0.004	-0.07	-0.010	0.08	0.011
10	0.09	0.013	-0.06	-0.009	0.11	0.016
11	0.09	0.013	0.01	0.001	0.09	0.013
12	0.04	0.006	0.10	0.015	0.11	0.016
18	-0.12	-0.017	0.07	0.010	0.14	0.020
14	-0.07	-0.010	-0.03	-0.004	0.08	0.011
15	-0.02	-0.003	-0.13	-0.019	0.13	0.019
16	0.09	0.013	-0.03	-0.004	0.09	0.014
17	0.07	0.010	0.12	0.017	0.14	0.020
18	-0.06	-0.009	0.05	0.007	0.08	0.011
19	-0.05	-0.007	0.00	0.000	0.05	0.007
20	-0.04	-0.006	-0.12	-0.017	0.13	0.018
21	0.07	0.010	-0.08	-0.012	0.11	0.015
22	0.09	0.013	0.07	0.010	0.11	0.017
28	-0.01	-0.001	0.08	0.012	0.08	0.012
24	-0.11	-0.016	0.03	0.004	0.11	0.017
25	-0.04	-0.006	-0.03	-0.012	0.09	0.013
26	0.06	0.009	-0.06	-0.009	0.08	0.012
27	0.11	0.016	0.04	0.006	0.12	0.017
28	-0.01	-0.001	0.12	0.017	0.12	0.017
29	-0.09	-0.013	0.02	0.003	0.09	0.013
80	-0.07	-0.010	-0.10	-0.015	0.12	0.018
81	0.10	0.015	-0.09	-0.013	0.13	0.020
82	0.09	0.013	0.05	0.007	0.10	0.015
88	-0.01	-0.001	0.10	0.015	0.10	0.015
84	-0.07	-0.010	0.00	0.000	0.07	0.010
85	-0.02	-0.003	-0.06	-0.009	0.06	0.009

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.27	0.039	0.01	0.001	0.27	0.039
2	-0.18	-0.026	-0.01	-0.001	0.18	0.026
8	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.03	-0.004	-0.07	-0.010	0.08	0.011
5	0.03	0.004	-0.03	-0.004	0.04	0.006
6	0.04	0.006	0.01	0.001	0.04	0.006
7	0.02	0.003	0.07	0.010	0.07	0.011
8	-0.06	-0.009	0.01	0.001	0.06	0.009
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	0.06	0.009	-0.04	-0.006	0.07	0.010
11	0.03	0.004	0.00	0.000	0.03	0.004
12	0.03	0.004	0.06	0.009	0.07	0.010
13	-0.01	-0.001	0.03	0.004	0.03	0.005
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	0.00	0.000	-0.05	-0.007	0.05	0.007
16	0.04	0.006	-0.02	-0.003	0.04	0.006
17	0.05	0.007	0.04	0.006	0.06	0.009
18	-0.03	-0.004	0.06	0.009	0.07	0.010
19	-0.06	-0.009	-0.01	-0.001	0.06	0.009
20	-0.03	-0.004	-0.07	-0.010	0.08	0.011
21	0.05	0.007	-0.04	-0.006	0.06	0.009
22	0.05	0.007	0.04	0.006	0.06	0.009
23	-0.02	-0.003	0.06	0.009	0.06	0.009
24	0.00	0.000	0.04	0.006	0.04	0.006
25	-0.01	-0.001	-0.04	-0.006	0.04	0.006
26	0.01	0.001	-0.05	-0.007	0.05	0.007
27	0.05	0.007	0.02	0.003	0.05	0.008
28	0.00	0.000	0.03	0.004	0.03	0.004
29	-0.05	-0.007	0.03	0.004	0.06	0.008
30	-0.03	-0.004	-0.07	-0.010	0.08	0.011
31	0.01	0.001	-0.04	-0.006	0.04	0.006
32	0.03	0.004	0.03	0.004	0.04	0.006
33	0.01	0.001	0.06	0.009	0.06	0.009
34	-0.04	-0.006	0.00	0.000	0.04	0.006
35	-0.01	-0.001	-0.02	-0.003	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: GA
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 18 RATIO: 0.641 CHORD: 83.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	0.05	0.007	0.10	0.015
2	-0.01	-0.001	0.00	0.000	0.01	0.001
3	0.01	0.001	-0.01	-0.001	0.01	0.002
4	-0.02	-0.003	-0.01	-0.001	0.02	0.003
5	-0.01	-0.001	-0.07	-0.010	0.07	0.010
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	0.03	0.004	0.02	0.003	0.04	0.005
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	0.03	0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.02	0.003	0.02	0.003
19	-0.04	-0.006	-0.02	-0.003	0.04	0.006
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.01	0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.01	0.001	0.01	0.002
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	-0.02	-0.003	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.02	-0.003	-0.02	-0.003	0.03	0.004
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 16 RATIO: 0.906 CHORD: 56.5 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.04	0.006	0.06	0.009
2	-0.04	-0.006	0.09	0.018	0.10	0.014
3	-0.04	-0.006	-0.03	-0.004	0.05	0.007
4	0.00	0.000	-0.05	-0.007	0.05	0.007
5	0.09	0.018	-0.07	-0.010	0.11	0.017
6	0.12	0.017	0.07	0.010	0.14	0.020
7	-0.02	-0.003	0.16	0.028	0.16	0.028
8	-0.14	-0.020	0.01	0.001	0.14	0.020
9	-0.05	-0.007	-0.18	-0.019	0.14	0.020
10	0.06	0.009	-0.06	-0.009	0.08	0.012
11	0.10	0.015	0.02	0.003	0.10	0.015
12	0.03	0.004	0.10	0.015	0.10	0.015
13	-0.08	-0.012	0.09	0.018	0.12	0.017
14	-0.09	-0.013	-0.06	-0.009	0.11	0.016
15	0.00	0.000	-0.18	-0.019	0.18	0.019
16	0.11	0.016	-0.04	-0.006	0.12	0.017
17	0.08	0.012	0.09	0.018	0.12	0.017
18	-0.04	-0.006	0.18	0.019	0.14	0.020
19	-0.12	-0.017	-0.01	-0.001	0.12	0.017
20	-0.08	-0.012	-0.10	-0.015	0.18	0.019
21	0.11	0.016	-0.09	-0.018	0.14	0.021
22	0.13	0.019	0.06	0.009	0.14	0.021
23	-0.04	-0.006	0.12	0.017	0.18	0.018
24	-0.14	-0.020	0.03	0.004	0.14	0.021
25	-0.07	-0.010	-0.11	-0.016	0.18	0.019
26	0.09	0.013	-0.08	-0.012	0.12	0.017
27	0.26	0.038	-0.02	-0.003	0.26	0.038
28	0.00	0.000	0.14	0.020	0.14	0.020
29	-0.13	-0.019	0.01	0.001	0.18	0.019
30	-0.07	-0.010	-0.10	-0.015	0.12	0.018
31	0.07	0.010	-0.10	-0.015	0.12	0.018
32	0.10	0.015	0.03	0.004	0.10	0.015
33	0.00	0.000	0.10	0.015	0.10	0.015
34	-0.08	-0.012	0.01	0.001	0.08	0.012
35	-0.03	-0.004	-0.07	-0.010	0.08	0.011

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 18 RATIO: 0.906 CHORD: 29.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	0.00	0.000	0.00	0.000	0.00	0.000
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.25	0.036	0.00	0.000	0.25	0.036
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 20 RATIO: 0.641 CHORD: 83.3 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.00	0.000	0.03	0.004
2	0.02	0.003	-0.05	-0.007	0.05	0.008
3	0.07	0.010	0.00	0.000	0.07	0.010
4	-0.03	-0.004	0.04	0.006	0.05	0.007
5	0.00	0.000	-0.08	-0.012	0.08	0.012
6	0.00	0.000	0.00	0.000	0.00	0.000
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.00	0.000	0.01	0.001
10	-0.02	-0.003	0.05	0.007	0.05	0.008
11	-0.04	-0.006	-0.04	-0.006	0.06	0.008
12	0.04	0.006	0.00	0.000	0.04	0.006
13	-0.02	-0.003	0.03	0.004	0.04	0.005
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.02	0.003	0.01	0.001	0.02	0.003
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	-0.03	-0.004	-0.01	-0.001	0.03	0.005
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A 20

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.33	0.048	0.40	0.058	0.52	0.075
2	-0.42	-0.061	0.00	0.000	0.42	0.061
3	0.08	0.012	-0.05	-0.007	0.09	0.014
4	-0.06	-0.009	-0.15	-0.022	0.16	0.023
5	0.32	0.046	-0.06	-0.009	0.33	0.047
6	-0.22	-0.032	0.27	0.039	0.35	0.051
7	0.03	0.004	-0.23	-0.033	0.23	0.034
8	-0.01	-0.001	0.15	0.022	0.15	0.022
9	-0.07	-0.010	-0.18	-0.026	0.19	0.028
10	0.10	0.015	0.06	0.009	0.12	0.017
11	-0.03	-0.004	-0.05	-0.007	0.06	0.008
12	0.07	0.010	0.14	0.020	0.16	0.023
13	-0.20	-0.029	0.03	0.004	0.20	0.029
14	0.01	0.001	-0.15	-0.022	0.15	0.022
15	0.08	0.012	-0.01	-0.001	0.08	0.012
16	0.05	0.007	0.06	0.009	0.08	0.011
17	-0.04	-0.006	0.10	0.015	0.11	0.016
18	-0.11	-0.016	-0.06	-0.009	0.13	0.018
19	0.00	0.000	-0.09	-0.013	0.09	0.013
20	0.06	0.009	-0.01	-0.001	0.06	0.009
21	0.04	0.006	0.10	0.015	0.11	0.016
22	-0.06	-0.009	0.08	0.012	0.10	0.015
23	-0.08	-0.012	-0.04	-0.006	0.09	0.013
24	-0.01	-0.001	-0.08	-0.012	0.08	0.012
25	0.09	0.013	-0.02	-0.003	0.09	0.013
26	0.04	0.006	0.08	0.012	0.09	0.013
27	-0.09	-0.013	0.07	0.010	0.11	0.017
28	-0.08	-0.012	-0.07	-0.010	0.11	0.015
29	0.03	0.004	-0.07	-0.010	0.08	0.011
30	0.09	0.013	0.01	0.001	0.09	0.013
31	0.00	0.000	0.07	0.010	0.07	0.010
32	-0.07	-0.010	0.08	0.004	0.08	0.011
33	-0.03	-0.004	-0.07	-0.010	0.08	0.011
34	0.08	0.012	-0.04	-0.006	0.09	0.013
35	0.04	0.006	0.08	0.004	0.05	0.007

A07

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.15	0.022	-0.07	-0.010	0.17	0.024
2	-0.08	-0.012	0.02	0.003	0.08	0.012
8	0.00	0.000	-0.02	-0.003	0.02	0.003
4	0.02	0.003	-0.04	-0.006	0.04	0.006
5	0.03	0.004	-0.02	-0.003	0.04	0.005
6	0.00	0.000	0.05	0.007	0.05	0.007
7	-0.01	-0.001	0.04	0.006	0.04	0.006
8	-0.05	-0.007	-0.02	-0.003	0.05	0.008
9	-0.01	-0.001	-0.03	-0.004	0.03	0.005
10	0.03	0.004	0.00	0.000	0.03	0.004
11	0.03	0.004	0.03	0.004	0.04	0.006
12	-0.02	-0.003	0.06	0.009	0.06	0.009
13	-0.04	-0.006	-0.02	-0.003	0.04	0.006
14	0.00	0.000	-0.05	-0.007	0.05	0.007
15	0.06	0.009	-0.01	-0.001	0.06	0.009
16	0.03	0.004	0.04	0.006	0.05	0.007
17	-0.03	-0.004	0.04	0.006	0.05	0.007
18	-0.06	-0.009	-0.01	-0.001	0.06	0.009
19	-0.02	-0.003	-0.06	-0.009	0.06	0.009
20	0.05	0.007	-0.03	-0.004	0.06	0.008
21	0.05	0.007	0.04	0.006	0.06	0.009
22	-0.04	-0.006	0.04	0.006	0.06	0.008
23	-0.05	-0.007	0.00	0.000	0.05	0.007
24	0.00	0.000	-0.05	-0.007	0.05	0.007
25	0.06	0.009	-0.01	-0.001	0.06	0.009
26	0.01	0.001	0.04	0.006	0.04	0.006
27	-0.03	-0.004	0.03	0.004	0.04	0.006
28	-0.05	-0.007	-0.03	-0.004	0.06	0.008
29	0.11	0.016	-0.01	-0.001	0.11	0.016
30	0.06	0.009	0.01	0.001	0.06	0.009
31	0.00	0.000	0.03	0.004	0.03	0.004
32	-0.03	-0.004	0.02	0.003	0.04	0.005
33	-0.02	-0.003	-0.04	-0.006	0.04	0.006
34	0.03	0.004	-0.02	-0.003	0.04	0.005
35	0.03	0.004	0.01	0.001	0.03	0.005

UNIFORM INFLOW

RUN NUMBER 34

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.17	-0.025	0.17	0.025
2	0.03	0.004	-0.02	-0.003	0.04	0.005
8	0.07	0.010	-0.08	-0.012	0.11	0.015
4	0.18	0.019	-0.03	-0.004	0.13	0.019
5	0.00	0.000	0.10	0.015	0.10	0.015
6	-0.06	-0.009	0.04	0.005	0.07	0.010
7	-0.04	-0.006	-0.03	-0.004	0.05	0.007
8	0.03	0.004	-0.07	-0.010	0.08	0.011
9	0.03	0.004	0.02	0.003	0.04	0.005
10	0.00	0.000	0.02	0.003	0.02	0.003
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.01	-0.001	0.03	0.004	0.03	0.005
13	-0.05	-0.007	0.00	0.000	0.05	0.007
14	0.00	0.000	-0.08	-0.012	0.08	0.012
15	0.09	0.013	-0.03	-0.004	0.09	0.014
16	0.04	0.006	0.06	0.009	0.07	0.010
17	-0.05	-0.007	0.07	0.010	0.09	0.012
18	-0.08	-0.012	-0.02	-0.003	0.08	0.012
19	0.00	0.000	-0.08	-0.012	0.08	0.012
20	0.08	0.012	-0.03	-0.004	0.09	0.012
21	0.04	0.006	0.08	0.012	0.09	0.013
22	-0.07	-0.010	0.07	0.010	0.10	0.014
23	-0.08	-0.012	-0.04	-0.006	0.09	0.013
24	0.00	0.000	-0.08	-0.012	0.08	0.012
25	0.07	0.010	-0.01	-0.001	0.07	0.010
26	0.02	0.003	0.09	0.013	0.09	0.013
27	-0.07	-0.010	0.06	0.009	0.09	0.013
28	-0.07	-0.010	-0.04	-0.006	0.08	0.012
29	0.03	0.004	-0.08	-0.012	0.09	0.012
30	0.03	0.012	0.00	0.000	0.08	0.012
31	0.00	0.000	0.06	0.009	0.06	0.009
32	-0.07	-0.010	0.02	0.003	0.07	0.011
33	-0.03	-0.004	-0.06	-0.009	0.07	0.010
34	0.05	0.007	-0.04	-0.006	0.06	0.009
35	0.03	0.004	0.03	0.004	0.04	0.006

UNIFORM INFLOW

RUN NUMBER 84

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.152 +/- 0.001
 BLADE ANGLE (DEG): 28.2 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.26	0.038	-0.12	-0.017	0.29	0.042
2	-0.02	-0.003	0.15	0.022	0.15	0.022
3	-0.16	-0.023	-0.02	-0.003	0.16	0.023
4	-0.04	-0.006	-0.17	-0.025	0.17	0.025
5	0.10	0.015	-0.11	-0.016	0.15	0.022
6	0.14	0.020	0.09	0.013	0.17	0.024
7	0.00	0.000	0.16	0.023	0.16	0.023
8	-0.16	-0.023	0.01	0.001	0.16	0.023
9	-0.04	-0.006	-0.12	-0.017	0.13	0.018
10	0.06	0.009	-0.07	-0.010	0.09	0.013
11	0.13	0.019	0.02	0.003	0.13	0.019
12	0.02	0.003	0.14	0.020	0.14	0.021
13	-0.13	-0.019	0.10	0.015	0.16	0.024
14	-0.16	-0.023	-0.04	-0.006	0.16	0.024
15	-0.02	-0.003	-0.17	-0.025	0.17	0.025
16	0.13	0.019	-0.03	-0.004	0.13	0.019
17	0.07	0.010	0.13	0.019	0.15	0.021
18	-0.04	-0.006	0.12	0.017	0.13	0.018
19	-0.15	-0.022	0.02	0.003	0.15	0.022
20	-0.05	-0.007	-0.13	-0.019	0.14	0.020
21	0.09	0.013	-0.11	-0.016	0.14	0.021
22	0.13	0.019	0.07	0.010	0.15	0.021
23	-0.01	-0.001	0.15	0.022	0.15	0.022
24	-0.14	-0.020	-0.05	-0.007	0.15	0.022
25	-0.04	-0.006	-0.10	-0.015	0.11	0.016
26	0.06	0.009	-0.12	-0.017	0.13	0.019
27	0.16	0.023	0.43	0.062	0.46	0.067
28	0.00	0.000	0.14	0.020	0.14	0.020
29	-0.08	-0.012	0.03	0.004	0.09	0.012
30	-0.10	-0.015	-0.08	-0.012	0.13	0.019
31	0.05	0.007	-0.12	-0.017	0.13	0.019
32	0.15	0.022	0.03	0.004	0.15	0.022
33	0.00	0.000	0.12	0.017	0.12	0.017
34	-0.11	-0.016	0.04	0.006	0.12	0.017
35	-0.04	-0.006	-0.07	-0.010	0.08	0.012

A-30

UNIFORM INFLOW

RUN NUMBER 35

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.18	0.026	0.18	0.026
2	0.07	0.010	-0.03	-0.004	0.08	0.011
3	0.08	0.004	-0.07	-0.010	0.08	0.011
4	-0.01	-0.001	0.04	0.006	0.04	0.006
5	0.08	0.004	0.10	0.015	0.10	0.015
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.00	0.000	0.06	0.009	0.06	0.009
8	0.02	0.003	0.02	0.003	0.03	0.004
9	-0.01	-0.001	0.04	0.006	0.04	0.006
10	0.01	0.001	0.05	0.007	0.05	0.007
11	-0.02	-0.003	-0.03	-0.004	0.04	0.005
12	0.02	0.003	0.01	0.001	0.02	0.003
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	-0.01	-0.001	0.05	0.007	0.05	0.007
15	0.04	0.006	0.04	0.006	0.06	0.008
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.02	0.003	0.03	0.004	0.04	0.005
19	0.03	0.004	0.00	0.000	0.03	0.004
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.02	0.003	0.00	0.000	0.02	0.003
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.02	0.003	0.02	0.003
27	0.01	0.001	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A31

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 MOTOR SPEED (RPM): 1677 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 5 RATIO: 0.906 CHORD: 69.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.18	0.026	0.11	0.016	0.21	0.031
2	-0.09	-0.013	-0.18	-0.026	0.20	0.029
3	0.02	0.003	-0.02	-0.003	0.03	0.004
4	0.00	0.000	0.04	0.006	0.04	0.006
5	-0.11	-0.016	-0.10	-0.015	0.15	0.022
6	-0.05	-0.007	0.02	0.003	0.05	0.008
7	-0.05	-0.007	0.01	0.001	0.05	0.007
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.02	-0.003	0.02	0.003	0.03	0.004
10	0.03	0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	-0.02	-0.003	0.02	0.003
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.03	0.004	0.03	0.005
16	0.00	0.000	0.02	0.003	0.02	0.003
17	-0.03	-0.004	-0.08	-0.012	0.09	0.012
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.01	0.001	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.02	-0.003	-0.01	-0.001	0.02	0.003
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.02	0.003	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.11	0.016	0.09	0.018	0.14	0.021
2	0.03	0.004	-0.03	-0.004	0.04	0.006
3	-0.05	-0.007	-0.02	-0.003	0.05	0.008
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.06	0.009	0.01	0.001	0.06	0.009
6	-0.03	-0.004	0.02	0.003	0.04	0.005
7	-0.06	-0.009	0.06	0.009	0.08	0.012
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.03	-0.004	0.06	0.009	0.07	0.010
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.01	0.001	-0.02	-0.003	0.02	0.003
12	-0.03	-0.004	0.02	0.003	0.04	0.005
13	0.02	0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.03	-0.004	0.01	0.001	0.03	0.005
16	0.00	0.000	0.02	0.003	0.02	0.003
17	-0.05	-0.007	0.00	0.000	0.05	0.007
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 35

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.19	0.028	0.19	0.028
2	0.06	0.009	0.00	0.000	0.06	0.009
3	0.06	0.009	0.00	0.000	0.06	0.009
4	-0.04	-0.006	-0.01	-0.001	0.04	0.006
5	-0.01	-0.001	-0.16	-0.023	0.16	0.023
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.01	0.001	0.02	0.003	0.02	0.003
10	0.02	0.003	0.00	0.000	0.02	0.003
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.02	0.003	0.01	0.001	0.02	0.003
13	0.01	0.001	-0.02	-0.003	0.02	0.003
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.03	0.004	0.00	0.000	0.03	0.004
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.01	0.001	0.01	0.001
20	0.02	0.003	-0.04	-0.006	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.01	0.001	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 86.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.16	0.023	0.17	0.024
2	0.06	0.009	-0.02	-0.003	0.06	0.009
3	0.06	0.009	0.00	0.000	0.06	0.009
4	-0.06	-0.009	-0.02	-0.003	0.06	0.009
5	-0.24	-0.035	-0.05	-0.007	0.25	0.036
6	0.01	0.001	-0.04	-0.006	0.04	0.006
7	0.00	0.000	0.02	0.003	0.02	0.003
8	-0.01	-0.001	0.02	0.003	0.02	0.003
9	0.02	0.003	0.02	0.003	0.03	0.004
10	0.00	0.000	0.05	0.007	0.05	0.007
11	-0.04	-0.006	-0.02	-0.003	0.04	0.006
12	0.01	0.001	0.03	0.004	0.03	0.005
13	-0.01	-0.001	-0.01	-0.001	0.01	0.002
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.04	0.006	0.04	0.006
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	-0.02	-0.003	-0.02	-0.003	0.03	0.004
19	0.01	0.001	0.02	0.003	0.02	0.003
20	0.02	0.003	0.03	0.004	0.04	0.005
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	-0.02	-0.003	0.01	0.001	0.02	0.003
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.12	0.017	0.18	0.019
2	0.00	0.000	-0.02	-0.003	0.02	0.008
8	0.08	0.012	-0.02	-0.003	0.08	0.012
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	0.15	0.022	-0.07	-0.010	0.17	0.024
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	0.03	0.004	0.03	0.004
10	0.08	0.012	-0.01	-0.001	0.08	0.012
11	-0.03	-0.004	-0.02	-0.003	0.04	0.005
12	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.03	-0.004	-0.02	-0.003	0.04	0.005
14	-0.02	-0.003	-0.03	-0.004	0.04	0.005
15	-0.02	-0.003	0.02	0.003	0.03	0.004
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.03	0.004	0.03	0.004
20	-0.03	-0.004	0.00	0.000	0.03	0.004
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.03	0.004	0.03	0.005
29	-0.01	-0.001	0.00	0.000	0.01	0.001
80	-0.01	-0.001	0.00	0.000	0.01	0.001
81	0.01	0.001	0.00	0.000	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
88	-0.03	-0.004	0.01	0.001	0.03	0.005
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.01	0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.24	0.035	0.05	0.007	0.25	0.036
2	-0.10	-0.015	-0.06	-0.009	0.12	0.017
8	0.09	0.013	0.00	0.000	0.09	0.013
4	-0.03	-0.004	0.00	0.000	0.03	0.004
5	0.12	0.017	-0.05	-0.007	0.13	0.019
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.05	0.007	0.05	0.007
10	0.02	0.003	-0.04	-0.006	0.04	0.006
11	-0.05	-0.007	-0.03	-0.004	0.06	0.008
12	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
14	-0.01	-0.001	-0.02	-0.003	0.02	0.003
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.00	0.000	0.02	0.003	0.02	0.003
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.04	0.006	0.04	0.006
29	0.00	0.000	0.00	0.000	0.00	0.000
80	0.00	0.000	-0.02	-0.003	0.02	0.003
81	0.00	0.000	0.00	0.000	0.00	0.000
82	0.00	0.000	-0.01	-0.001	0.01	0.001
88	-0.04	-0.006	0.00	0.000	0.04	0.006
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	0.05	0.007	0.10	0.015
2	0.01	0.001	-0.03	-0.004	0.03	0.005
3	0.06	0.009	0.00	0.000	0.06	0.009
4	-0.02	-0.003	-0.02	-0.003	0.03	0.004
5	0.00	0.000	0.05	0.007	0.05	0.007
6	-0.03	-0.004	0.00	0.000	0.03	0.004
7	0.05	0.007	0.04	0.006	0.06	0.009
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	-0.02	-0.003	0.04	0.006	0.04	0.006
10	0.01	0.001	0.02	0.003	0.02	0.003
11	-0.02	-0.003	-0.01	-0.001	0.02	0.003
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	-0.01	-0.001	0.03	0.004	0.03	0.005
14	-0.03	-0.004	0.03	0.004	0.04	0.006
15	0.04	0.006	0.01	0.001	0.04	0.006
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	0.03	0.004	0.02	0.003	0.04	0.005
19	0.02	0.003	-0.01	-0.001	0.02	0.003
20	0.02	0.003	0.01	0.001	0.02	0.003
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	-0.03	-0.004	0.03	0.004
23	0.02	0.003	-0.01	-0.001	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A 36

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.16	-0.023	0.17	0.025
2	0.08	0.012	-0.03	-0.004	0.09	0.012
8	0.08	0.012	0.02	0.003	0.08	0.012
4	0.00	0.000	0.05	0.007	0.05	0.007
5	0.01	0.001	-0.09	-0.013	0.09	0.013
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.00	0.000	0.04	0.006	0.04	0.006
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	-0.01	-0.001	0.01	0.001	0.01	0.002
11	0.01	0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	0.04	0.006	0.04	0.006
18	0.02	0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.03	0.004	0.03	0.004
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	0.00	0.000	0.15	0.022	0.15	0.022
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.03	0.004	0.01	0.001	0.03	0.005
24	-0.04	-0.006	0.00	0.000	0.04	0.006
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	-0.02	-0.003	0.02	0.003
32	0.03	0.004	0.05	0.007	0.06	0.008
33	0.16	0.023	-0.07	-0.010	0.17	0.025
34	0.00	0.000	0.08	0.004	0.08	0.004
35	-0.02	-0.003	0.00	0.000	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	0.05	0.007	0.05	0.008
2	0.04	0.006	-0.04	-0.006	0.06	0.008
3	0.06	0.009	0.00	0.000	0.06	0.009
4	-0.02	-0.003	0.02	0.003	0.03	0.004
5	-0.04	-0.006	0.03	0.004	0.05	0.007
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.00	0.000	0.01	0.001
10	-0.04	-0.006	0.07	0.010	0.08	0.012
11	-0.04	-0.006	-0.06	-0.009	0.07	0.010
12	0.04	0.006	-0.02	-0.003	0.04	0.006
13	-0.01	-0.001	0.03	0.004	0.03	0.005
14	-0.05	-0.007	0.00	0.000	0.05	0.007
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.02	0.003	0.03	0.004	0.04	0.005
20	-0.01	-0.001	0.02	0.003	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 23 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.27	0.039	0.40	0.058	0.48	0.070
2	-0.30	-0.044	-0.07	-0.010	0.31	0.045
3	0.18	0.026	0.01	0.001	0.18	0.026
4	-0.14	-0.020	-0.06	-0.009	0.15	0.022
5	0.39	0.057	0.06	0.009	0.39	0.057
6	-0.27	-0.039	0.19	0.028	0.33	0.048
7	0.07	0.010	-0.29	-0.042	0.30	0.043
8	0.06	0.009	0.18	0.026	0.19	0.028
9	-0.08	-0.012	-0.07	-0.010	0.11	0.015
10	0.06	0.009	0.09	0.013	0.11	0.016
11	-0.08	-0.012	-0.14	-0.020	0.16	0.023
12	0.16	0.023	0.07	0.010	0.17	0.025
13	-0.11	-0.016	0.06	0.009	0.13	0.018
14	0.04	0.006	-0.09	-0.013	0.10	0.014
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.02	0.003	0.00	0.000	0.02	0.003
17	-0.01	-0.001	0.02	0.003	0.02	0.003
18	-0.03	-0.004	0.00	0.000	0.03	0.004
19	0.02	0.003	0.02	0.003	0.03	0.004
20	-0.01	-0.001	-0.04	-0.006	0.04	0.006
21	-0.04	-0.006	0.00	0.000	0.04	0.006
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.02	0.003	-0.02	-0.003	0.03	0.004
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.01	0.001	0.01	0.002
27	-0.03	-0.004	0.00	0.000	0.03	0.004
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 35

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.03	0.004	0.08	0.011
2	-0.04	-0.006	-0.01	-0.001	0.04	0.006
3	0.04	0.006	0.02	0.003	0.04	0.006
4	0.01	0.001	0.01	0.001	0.01	0.002
5	-0.04	-0.006	0.11	0.016	0.12	0.017
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	-0.01	-0.001	0.03	0.004	0.03	0.005
11	0.00	0.000	-0.03	-0.004	0.03	0.004
12	0.00	0.000	0.01	0.001	0.01	0.001
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.02	0.003	0.02	0.003
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.02	-0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	0.03	0.004	0.03	0.004
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.07	-0.010	0.02	0.003	0.07	0.011
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A42

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.66	0.096	-1.68	-0.244	1.80	0.262
2	0.15	0.022	-0.06	-0.009	0.16	0.023
3	0.18	0.026	-0.11	-0.016	0.21	0.031
4	0.19	0.028	0.06	0.009	0.20	0.029
5	-0.16	-0.023	0.04	0.006	0.16	0.024
6	-0.14	-0.020	-0.03	-0.004	0.14	0.021
7	0.06	0.009	-0.14	-0.020	0.15	0.022
8	0.10	0.015	0.05	0.007	0.11	0.016
9	0.02	0.003	0.19	0.028	0.19	0.028
10	-0.09	-0.013	0.06	0.009	0.11	0.016
11	-0.05	-0.007	-0.06	-0.009	0.08	0.011
12	0.03	0.004	-0.01	-0.001	0.03	0.005
13	0.03	0.000	0.05	0.007	0.05	0.007
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.05	0.007	0.05	0.007
16	0.03	0.004	0.01	0.001	0.03	0.005
17	0.03	0.004	-0.01	-0.001	0.03	0.005
18	0.01	0.001	0.02	0.003	0.02	0.003
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	-0.02	-0.003	0.00	0.000	0.02	0.003
23	-0.02	-0.003	0.01	0.001	0.02	0.003
24	0.01	0.001	-0.02	-0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.03	-0.004	0.03	0.004	0.04	0.006
28	-0.03	-0.004	-0.02	-0.003	0.04	0.005
29	0.00	0.000	-0.02	-0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.02	0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.01	0.001	0.02	0.003	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 85

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.882 +/- 0.015
 POWER COEFFICIENT: 0.201 +/- 0.001
 BLADE ANGLE (DEG): 29.8 +/- 0.5
 ROTOR SPEED (RPM): 1677 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.28	0.041	-0.99	-0.144	1.03	0.149
2	-0.02	-0.003	-0.12	-0.017	0.12	0.018
3	-0.05	-0.007	-0.02	-0.003	0.05	0.008
4	-0.05	-0.007	-0.07	-0.010	0.09	0.012
5	0.01	0.001	-0.18	-0.026	0.18	0.026
6	0.03	0.004	0.07	0.010	0.08	0.011
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.05	0.007	0.00	0.000	0.05	0.007
10	-0.02	-0.003	0.01	0.001	0.02	0.003
11	-0.01	-0.001	0.03	0.004	0.03	0.005
12	0.04	0.006	-0.04	-0.006	0.06	0.008
13	-0.03	-0.004	0.03	0.004	0.04	0.006
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	0.04	0.006	-0.03	-0.004	0.05	0.007
16	-0.03	-0.004	0.00	0.000	0.03	0.004
17	-0.01	-0.001	0.02	0.003	0.02	0.003
18	-0.03	-0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.04	-0.006	-0.06	-0.009	0.07	0.010
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.03	0.004	0.03	0.004
23	0.01	0.001	0.01	0.001	0.01	0.002
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.02	0.003	0.02	0.003
28	0.00	0.000	-0.02	-0.003	0.02	0.003
29	0.03	0.004	0.01	0.001	0.03	0.005
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	0.05	0.007	-0.01	-0.001	0.05	0.007
33	0.05	0.007	-0.07	-0.010	0.09	0.012
34	0.02	0.003	0.01	0.001	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.17	0.025	0.18	0.026
2	0.06	0.009	-0.01	-0.001	0.06	0.009
8	-0.04	-0.006	-0.08	-0.012	0.09	0.018
4	-0.01	-0.001	0.04	0.006	0.04	0.006
5	0.02	0.003	-0.01	-0.001	0.02	0.003
6	0.00	0.000	0.02	0.003	0.02	0.003
7	0.03	0.004	0.07	0.010	0.08	0.011
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.04	0.006	0.01	0.001	0.04	0.006
10	0.08	0.012	-0.05	-0.007	0.09	0.014
11	-0.04	-0.006	0.01	0.001	0.04	0.006
12	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
14	-0.01	-0.001	-0.01	-0.001	0.01	0.002
15	0.01	0.001	-0.04	-0.006	0.04	0.006
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.02	-0.003	0.01	0.001	0.02	0.003
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	0.00	0.000	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
80	0.00	0.000	0.00	0.000	0.00	0.000
81	-0.01	-0.001	0.00	0.000	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
88	0.00	0.000	0.02	0.003	0.02	0.003
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	-0.01	-0.001	0.01	0.001

A45

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.82	0.046	0.06	0.009	0.88	0.047
2	-0.10	-0.015	-0.03	-0.004	0.10	0.015
8	0.00	0.000	-0.01	-0.001	0.01	0.001
4	0.03	0.004	0.04	0.006	0.05	0.007
5	-0.04	-0.006	-0.03	-0.004	0.05	0.007
6	-0.02	-0.003	0.05	0.007	0.05	0.008
7	-0.07	-0.010	0.07	0.010	0.10	0.014
8	0.02	0.003	0.02	0.003	0.03	0.004
9	0.01	0.001	0.02	0.003	0.02	0.003
10	0.05	0.007	0.00	0.000	0.05	0.007
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.02	0.003	0.01	0.001	0.02	0.003
16	0.02	0.003	0.00	0.000	0.02	0.003
17	-0.01	-0.001	-0.02	-0.003	0.02	0.003
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.01	0.001	0.02	0.003	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.01	0.001	0.01	0.001	0.01	0.002
23	-0.01	-0.001	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

146

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.10	0.015	0.10	0.015
2	0.05	0.007	-0.06	-0.009	0.08	0.011
3	-0.06	-0.009	-0.04	-0.006	0.07	0.010
4	0.00	0.000	0.00	0.000	0.00	0.000
5	-0.03	-0.004	0.00	0.000	0.03	0.004
6	-0.01	-0.001	0.04	0.006	0.04	0.006
7	0.00	0.000	0.08	0.012	0.08	0.012
8	0.02	0.003	-0.01	-0.001	0.02	0.003
9	0.00	0.000	0.03	0.004	0.03	0.004
10	0.04	0.006	-0.01	-0.001	0.04	0.006
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	0.02	0.003	0.02	0.003
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.02	0.003	0.02	0.003
16	0.02	0.003	0.00	0.000	0.02	0.003
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

A-477

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.15	0.022	0.17	0.024
2	0.03	0.004	0.02	0.003	0.04	0.005
3	0.05	0.007	-0.02	-0.003	0.05	0.008
4	-0.04	-0.006	-0.01	-0.001	0.04	0.006
5	-0.04	-0.006	-0.01	-0.001	0.04	0.006
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.02	0.003	0.01	0.001	0.02	0.003
8	0.05	0.007	0.02	0.003	0.05	0.008
9	0.02	0.003	-0.01	-0.001	0.02	0.003
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.01	0.001	-0.02	-0.003	0.02	0.003
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.01	0.001	0.04	0.006	0.04	0.006
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.03	-0.004	0.00	0.000	0.03	0.004
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.02	0.003	0.00	0.000	0.02	0.003
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A 418

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.16	0.028	0.17	0.025
2	0.03	0.004	0.00	0.000	0.08	0.004
8	0.06	0.009	-0.08	-0.004	0.07	0.010
4	-0.05	-0.007	0.02	0.003	0.05	0.008
5	-0.06	-0.009	0.00	0.000	0.06	0.009
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.04	0.006	0.00	0.000	0.04	0.006
8	0.01	0.001	0.03	0.004	0.03	0.005
9	0.03	0.004	0.00	0.000	0.03	0.004
10	0.02	0.003	-0.03	-0.004	0.04	0.005
11	-0.03	-0.004	0.02	0.003	0.04	0.005
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	-0.03	-0.004	0.03	0.004
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	0.02	0.003	0.02	0.003	0.03	0.004
19	-0.01	-0.001	-0.04	-0.006	0.04	0.006
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.02	-0.003	0.01	0.001	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.02	0.003	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 32.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.012	0.07	0.010	0.11	0.015
2	0.00	0.000	0.01	0.001	0.01	0.001
3	0.02	0.003	-0.07	-0.010	0.07	0.011
4	-0.02	-0.003	0.00	0.000	0.02	0.003
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.02	0.003	0.00	0.000	0.02	0.003
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.05	0.007	-0.06	-0.009	0.08	0.011
11	0.00	0.000	0.03	0.004	0.03	0.004
12	-0.03	-0.004	0.00	0.000	0.03	0.004
13	-0.03	-0.004	0.00	0.000	0.03	0.004
14	0.02	0.003	0.00	0.000	0.02	0.003
15	-0.03	-0.004	-0.02	-0.003	0.04	0.005
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.04	-0.006	0.02	0.003	0.04	0.006
19	0.01	0.001	-0.03	-0.004	0.03	0.005
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	0.02	0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.03	0.004	-0.02	-0.003	0.04	0.005
24	0.07	0.010	0.28	0.041	0.29	0.042
25	0.00	0.000	0.02	0.003	0.02	0.003
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.02	0.003	0.01	0.001	0.02	0.003
30	0.01	0.001	0.01	0.001	0.01	0.002
31	-0.02	-0.003	-0.02	-0.003	0.03	0.004
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.27	0.039	0.00	0.000	0.27	0.039
2	-0.09	-0.013	-0.01	-0.001	0.09	0.013
3	0.07	0.010	-0.01	-0.001	0.07	0.010
4	-0.08	-0.004	0.01	0.001	0.08	0.005
5	-0.02	-0.003	0.01	0.001	0.02	0.003
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.01	0.001	-0.03	-0.004	0.03	0.005
8	0.03	0.004	0.04	0.006	0.05	0.007
9	0.05	0.007	0.00	0.000	0.05	0.007
10	0.03	0.004	-0.05	-0.007	0.06	0.008
11	-0.03	-0.004	0.03	0.004	0.04	0.006
12	-0.01	-0.001	0.03	0.004	0.03	0.005
13	-0.03	-0.004	-0.03	-0.004	0.04	0.006
14	-0.08	-0.004	-0.01	-0.001	0.08	0.005
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.03	0.004	0.01	0.001	0.03	0.005
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.01	0.001	0.04	0.006	0.04	0.006
24	0.04	0.006	-0.38	-0.055	0.38	0.055
25	-0.01	-0.001	-0.03	-0.004	0.03	0.005
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	-0.03	-0.004	0.03	0.005
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	-0.02	-0.003	0.02	0.003

A 21

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.12	0.017	0.02	0.003	0.12	0.018
2	0.01	0.001	0.01	0.001	0.01	0.002
3	0.03	0.004	-0.02	-0.003	0.04	0.005
4	-0.06	-0.009	0.01	0.001	0.06	0.009
5	-0.06	-0.009	-0.02	-0.003	0.06	0.009
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.02	0.003	-0.03	-0.004	0.04	0.005
8	0.02	0.003	0.04	0.006	0.04	0.006
9	0.02	0.003	0.01	0.001	0.02	0.003
10	0.00	0.000	-0.03	-0.004	0.03	0.004
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.01	0.001	0.01	0.001	0.01	0.002
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	-0.02	-0.003	-0.03	-0.004	0.04	0.005
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.03	0.004	-0.01	-0.001	0.03	0.005
19	-0.02	-0.003	0.05	0.007	0.05	0.008
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.15	0.022	-0.08	-0.012	0.17	0.025
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.02	-0.003	0.02	0.003
34	0.01	0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

A02

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.68	-0.091	0.58	0.077	0.82	0.119
2	-0.15	-0.022	0.00	0.000	0.15	0.022
3	0.24	0.035	-0.22	-0.032	0.33	0.047
4	-0.04	-0.006	-0.15	-0.022	0.16	0.023
5	0.19	0.028	0.05	0.007	0.20	0.028
6	-0.18	-0.026	0.02	0.003	0.18	0.026
7	-0.18	-0.019	0.01	0.001	0.18	0.019
8	-0.08	-0.012	-0.19	-0.028	0.21	0.030
9	0.26	0.038	0.04	0.006	0.26	0.038
10	-0.16	-0.023	0.11	0.016	0.19	0.028
11	0.08	0.012	0.08	0.004	0.09	0.012
12	-0.06	-0.009	0.02	0.003	0.06	0.009
13	0.01	0.001	0.11	0.016	0.11	0.016
14	-0.02	-0.003	-0.04	-0.006	0.04	0.006
15	0.04	0.006	0.19	0.028	0.19	0.028
16	-0.15	-0.022	-0.08	-0.012	0.17	0.025
17	0.00	0.000	0.14	0.020	0.14	0.020
18	0.06	0.009	-0.02	-0.003	0.06	0.009
19	0.00	0.000	-0.10	-0.015	0.10	0.015
20	0.05	0.007	0.03	0.004	0.06	0.008
21	-0.14	-0.020	0.08	0.012	0.16	0.023
22	0.04	0.006	-0.06	-0.009	0.07	0.010
23	-0.06	-0.009	0.04	0.006	0.07	0.010
24	-0.05	-0.007	0.18	0.019	0.14	0.020
25	-0.18	-0.019	0.00	0.000	0.18	0.019
26	-0.09	-0.013	0.00	0.000	0.09	0.013
27	-0.07	-0.010	0.04	0.006	0.08	0.012
28	0.01	0.001	0.05	0.007	0.05	0.007
29	-0.08	-0.012	-0.17	-0.025	0.19	0.027
30	0.11	0.016	0.06	0.009	0.13	0.018
31	-0.09	-0.013	0.07	0.010	0.11	0.017
32	-0.03	-0.004	-0.01	-0.001	0.03	0.005
33	0.00	0.000	-0.11	-0.016	0.11	0.016
34	-0.05	-0.007	0.01	0.001	0.05	0.007
35	0.06	0.009	0.04	0.006	0.07	0.010

UNIFORM INFLOW

RUN NUMBER 36

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.3 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 16 RATIO: 0.906 CHORD: 56.5 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.84	-0.122	0.83	0.120	1.18	0.171
2	-0.03	-0.004	-0.04	-0.006	0.05	0.007
3	0.04	0.006	-0.32	-0.046	0.32	0.047
4	-0.04	-0.006	0.07	0.010	0.08	0.012
5	0.32	0.046	0.08	0.012	0.33	0.048
6	-0.16	-0.023	0.12	0.017	0.20	0.029
7	0.20	0.029	0.12	0.017	0.23	0.034
8	-0.17	-0.025	-0.07	-0.010	0.18	0.027
9	0.01	0.001	-0.10	-0.015	0.10	0.015
10	0.01	0.001	0.23	0.033	0.23	0.033
11	0.08	0.012	-0.05	-0.007	0.09	0.014
12	-0.10	-0.015	-0.07	-0.010	0.12	0.018
13	-0.03	-0.004	0.15	0.022	0.15	0.022
14	-0.06	-0.009	-0.11	-0.016	0.13	0.018
15	-0.06	-0.009	-0.06	-0.009	0.08	0.012
16	-0.16	-0.023	0.17	0.025	0.23	0.034
17	-0.09	-0.013	-0.07	-0.010	0.11	0.017
18	-0.02	-0.003	-0.07	-0.010	0.07	0.011
19	0.04	0.006	0.02	0.003	0.04	0.006
20	0.02	0.003	0.00	0.000	0.02	0.003
21	-0.12	-0.017	0.02	0.003	0.12	0.018
22	0.00	0.000	-0.03	-0.004	0.03	0.004
23	0.16	0.023	-0.07	-0.010	0.17	0.025
24	0.02	0.003	-0.12	-0.017	0.12	0.018
25	-0.07	-0.010	-0.10	-0.015	0.12	0.018
26	-0.12	-0.017	-0.09	-0.013	0.15	0.022
27	0.12	0.017	-0.07	-0.010	0.14	0.020
28	0.04	0.006	0.15	0.022	0.16	0.023
29	-0.19	-0.028	-0.21	-0.030	0.28	0.041
30	0.10	0.015	0.00	0.000	0.10	0.015
31	-0.04	-0.006	0.12	0.017	0.13	0.018
32	-0.08	-0.012	-0.01	-0.001	0.08	0.012
33	-0.08	-0.012	-0.06	-0.009	0.10	0.015
34	-0.04	-0.006	-0.06	-0.009	0.07	0.010
35	0.04	0.006	-0.15	-0.022	0.16	0.023

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UNIFORM INFLOW

RUN NUMBER 36

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.012	-0.06	-0.009	0.10	0.015
2	0.02	0.003	-0.05	-0.007	0.05	0.008
3	0.05	0.007	-0.08	-0.004	0.06	0.008
4	0.00	0.000	0.05	0.007	0.05	0.007
5	-0.08	-0.012	-0.05	-0.007	0.09	0.014
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.04	0.006	0.01	0.001	0.04	0.006
11	-0.04	-0.006	0.03	0.004	0.05	0.007
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.03	0.004	0.00	0.000	0.03	0.004
14	-0.02	-0.003	-0.01	-0.001	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.02	0.003	-0.02	-0.003	0.03	0.004
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.02	0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.02	0.003	0.01	0.001	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.02	0.003	-0.01	-0.001	0.02	0.003
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	-0.01	-0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 32.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.41	0.059	0.17	0.025	0.44	0.064
2	-0.28	-0.041	-0.01	-0.001	0.28	0.041
3	0.18	0.026	-0.04	-0.006	0.18	0.027
4	-0.12	-0.017	0.00	0.000	0.12	0.017
5	0.14	0.020	-0.17	-0.025	0.22	0.032
6	-0.02	-0.003	0.31	0.045	0.31	0.045
7	-0.16	-0.023	-0.22	-0.032	0.27	0.039
8	0.17	0.025	0.05	0.007	0.18	0.026
9	-0.10	-0.015	0.05	0.007	0.11	0.016
10	0.10	0.015	0.00	0.000	0.10	0.015
11	-0.18	-0.026	0.09	0.013	0.20	0.029
12	0.04	0.006	-0.15	-0.022	0.16	0.023
13	0.08	0.012	0.11	0.016	0.14	0.020
14	-0.07	-0.010	-0.01	-0.001	0.07	0.010
15	0.01	0.001	-0.02	-0.003	0.02	0.003
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.05	0.007	0.05	0.007
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.03	0.004	0.03	0.005
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	-0.02	-0.003	-0.01	-0.001	0.02	0.003
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.04	0.006	-0.01	-0.001	0.04	0.006
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A-56

UNIFORM INFLOW

RUN NUMBER 36

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 82.3 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 24 RATIO: 0.641 CHORD: 23.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.24	0.035	-0.44	-0.064	0.50	0.073
2	0.01	0.001	0.04	0.006	0.04	0.006
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.00	0.000	-0.03	-0.004	0.03	0.004
5	0.00	0.000	0.00	0.000	0.00	0.000
6	-0.03	-0.004	0.00	0.000	0.03	0.004
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.02	0.003	0.05	0.007	0.05	0.008
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.03	0.004	0.00	0.000	0.03	0.004
11	-0.04	-0.006	0.00	0.000	0.04	0.006
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.02	0.003	0.04	0.006	0.04	0.006
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.02	0.003	0.02	0.003
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.02	0.003	0.01	0.001	0.02	0.003
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.02	-0.003	0.00	0.000	0.02	0.003
24	0.02	0.003	0.01	0.001	0.02	0.003
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.03	0.004	0.01	0.001	0.03	0.005
27	-0.02	-0.003	0.00	0.000	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.03	-0.004	-0.05	-0.007	0.06	0.008
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.02	0.003	-0.02	-0.003	0.03	0.004
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.03	0.004	0.03	0.004

1157

UNIFORM INFLOW

RUN NUMBER 86

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 32.3 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.12	-0.017	-0.51	-0.074	0.52	0.076
2	0.21	0.030	-0.14	-0.020	0.25	0.037
8	0.08	0.012	-0.22	-0.032	0.23	0.034
4	0.04	0.006	-0.05	-0.007	0.06	0.009
5	0.03	0.004	0.12	0.017	0.12	0.018
6	-0.06	-0.009	0.07	0.010	0.09	0.013
7	-0.09	-0.013	-0.11	-0.016	0.14	0.021
8	0.01	0.001	-0.13	-0.019	0.13	0.019
9	0.13	0.019	0.01	0.001	0.13	0.019
10	0.00	0.000	0.08	0.012	0.08	0.012
11	-0.05	-0.007	0.00	0.000	0.05	0.007
12	-0.03	-0.004	-0.08	-0.012	0.09	0.012
13	0.08	0.012	-0.08	-0.012	0.11	0.016
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	-0.01	-0.001	-0.02	-0.003	0.02	0.003
16	0.00	0.000	0.04	0.006	0.04	0.006
17	0.00	0.000	-0.06	-0.009	0.06	0.009
18	-0.02	-0.003	-0.01	-0.001	0.02	0.003
19	-0.01	-0.001	-0.03	-0.004	0.03	0.005
20	-0.04	-0.006	0.00	0.000	0.04	0.006
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	-0.02	-0.003	0.00	0.000	0.02	0.003
23	0.03	0.004	0.02	0.003	0.04	0.005
24	0.02	0.003	-0.01	-0.001	0.02	0.003
25	0.02	0.003	0.03	0.004	0.04	0.005
26	-0.06	-0.009	-0.05	-0.007	0.08	0.011
27	-0.01	-0.001	0.06	0.009	0.06	0.009
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.02	0.003	0.02	0.003	0.03	0.004
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	0.04	0.006	0.04	0.006
35	0.03	0.004	-0.06	-0.009	0.07	0.010

UNIFORM INFLOW

RUN NUMBER 36

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.249 +/- 0.001
 BLADE ANGLE (DEG): 32.8 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.13	-0.019	0.13	0.019
2	0.03	0.004	-0.06	-0.009	0.07	0.010
3	-0.03	-0.004	0.00	0.000	0.03	0.004
4	-0.06	-0.009	0.01	0.001	0.06	0.009
5	-0.07	-0.010	-0.02	-0.003	0.07	0.011
6	0.03	0.004	-0.06	-0.009	0.07	0.010
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	-0.06	-0.009	-0.04	-0.006	0.07	0.010
9	0.01	0.001	0.02	0.003	0.02	0.003
10	0.05	0.007	0.03	0.004	0.06	0.008
11	-0.02	-0.003	0.07	0.010	0.07	0.011
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.02	0.003	0.01	0.001	0.02	0.003
15	-0.05	-0.007	-0.01	-0.001	0.05	0.007
16	0.03	0.004	0.00	0.000	0.03	0.004
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.04	-0.006	0.04	0.006	0.06	0.008
19	0.05	0.007	-0.04	-0.006	0.06	0.009
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.03	0.004	-0.03	-0.004	0.04	0.006
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.00	0.000	-0.03	-0.004	0.03	0.004
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	-0.01	-0.001	0.01	0.001	0.01	0.002
30	0.02	0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	-0.03	-0.004	0.03	0.004
33	0.00	0.000	0.03	0.004	0.03	0.004
34	0.00	0.000	0.02	0.003	0.02	0.003
35	-0.01	-0.001	0.00	0.000	0.01	0.001

A-57

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.12	-0.017	0.51	0.074	0.52	0.076
2	-0.28	-0.038	-0.07	-0.010	0.24	0.035
8	-0.01	-0.001	0.00	0.000	0.01	0.001
4	-0.05	-0.007	0.08	0.012	0.09	0.014
5	0.01	0.001	0.02	0.003	0.02	0.003
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.02	0.003	0.02	0.003	0.08	0.004
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.02	0.003	0.02	0.003
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	-0.02	-0.003	-0.03	-0.004	0.04	0.005
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.02	0.003	-0.05	-0.009	0.06	0.009
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.03	0.004	0.03	0.005
20	-0.02	-0.003	0.04	0.006	0.04	0.006
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.01	0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	-0.01	-0.001	-0.03	-0.004	0.03	0.005
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.03	-0.004	-0.01	-0.001	0.03	0.005
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	-0.02	-0.003	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

A60

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.31	0.045	0.31	0.045
2	-0.25	-0.036	-0.16	-0.023	0.30	0.043
3	-0.04	-0.006	0.03	0.004	0.05	0.007
4	-0.01	-0.001	0.07	0.010	0.07	0.010
5	0.00	0.000	0.02	0.003	0.02	0.003
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.01	0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	0.02	0.003	0.02	0.003
11	0.00	0.000	-0.03	-0.004	0.03	0.004
12	0.01	0.001	0.01	0.001	0.01	0.002
13	0.01	0.001	-0.02	-0.003	0.02	0.003
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A-61

UNIFORM INFLOW

RUN NUMBER 37

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 6 RATIO: 0.906 CHORD: 89.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.12	-0.017	0.80	0.044	0.82	0.047
2	-0.18	-0.019	-0.08	-0.004	0.18	0.019
3	-0.04	-0.006	-0.01	-0.001	0.04	0.006
4	-0.03	-0.004	0.03	0.004	0.04	0.006
5	0.01	0.001	0.02	0.003	0.02	0.003
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.04	0.006	0.02	0.003	0.04	0.006
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	0.00	0.000	0.02	0.003
10	-0.01	-0.001	0.01	0.001	0.01	0.002
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A-62

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.06	-0.009	0.41	0.059	0.41	0.060
2	-0.17	-0.025	-0.08	-0.012	0.19	0.027
3	-0.01	-0.001	-0.04	-0.006	0.04	0.006
4	-0.05	-0.007	0.00	0.000	0.05	0.007
5	0.00	0.000	0.01	0.001	0.01	0.001
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.02	0.003	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.02	0.003	0.01	0.001	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	-0.01	-0.001	0.01	0.002
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A 62

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 9 RATIO: 0.641 CHORD: 23.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	0.88	0.055	0.88	0.055
2	-0.20	-0.029	-0.05	-0.007	0.21	0.030
8	-0.01	-0.001	-0.08	-0.004	0.08	0.005
4	-0.08	-0.004	0.00	0.000	0.08	0.004
5	0.01	0.001	0.02	0.003	0.02	0.003
6	0.01	0.001	0.00	0.000	0.01	0.001
7	-0.02	-0.003	0.01	0.001	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.02	0.003	0.02	0.003	0.08	0.004
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.01	0.001	0.01	0.002
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.01	0.001	0.02	0.003	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	0.01	0.001	0.01	0.001

A-64

UNIFORM INFLOW

RUN NUMBER 37

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.03	-0.004	0.81	0.045	0.81	0.045
2	-0.14	-0.020	-0.07	-0.010	0.16	0.023
3	0.00	0.000	-0.01	-0.001	0.01	0.001
4	-0.03	-0.004	0.01	0.001	0.03	0.005
5	0.00	0.000	0.05	0.007	0.05	0.007
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

A65

UNIFORM INFLOW

RUN NUMBER 37

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.23	0.033	0.23	0.033
2	-0.15	-0.022	-0.06	-0.009	0.16	0.023
3	0.00	0.000	-0.03	-0.004	0.03	0.004
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.02	0.003	0.01	0.001	0.02	0.003
6	0.02	0.003	0.01	0.001	0.02	0.003
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.03	0.004	0.00	0.000	0.03	0.004
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	-0.03	-0.004	0.03	0.004
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.02	0.003	0.00	0.000	0.02	0.003
18	0.01	0.001	0.02	0.003	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.05	-0.007	0.01	0.001	0.05	0.007
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.02	0.003	0.02	0.003	0.03	0.004
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.03	-0.004	0.03	0.004
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.07	-0.010	0.05	0.007	0.09	0.012
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.17	0.025	0.17	0.025	0.24	0.035
2	-0.25	-0.036	-0.10	-0.015	0.27	0.039
3	0.02	0.003	0.03	0.004	0.04	0.005
4	-0.02	-0.003	0.01	0.001	0.02	0.003
5	0.02	0.003	0.01	0.001	0.02	0.003
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.00	0.000	0.00	0.000	0.00	0.000
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	0.02	0.003	0.02	0.003
10	0.04	0.006	-0.01	-0.001	0.04	0.006
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.03	0.004	0.00	0.000	0.03	0.004
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	0.01	0.001	0.01	0.001	0.01	0.002
22	-0.03	-0.004	0.00	0.000	0.03	0.004
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.02	0.003	0.02	0.003
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	0.02	0.003	-0.02	-0.003	0.03	0.004
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.05	-0.007	-0.05	-0.007	0.07	0.010
34	-0.02	-0.003	0.00	0.000	0.02	0.003
35	0.00	0.000	-0.01	-0.001	0.01	0.001

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UNIFORM INFLOW

RUN NUMBER 37

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 18 RATIO: 0.641 CHORD: 83.3 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.16	0.023	0.16	0.023
2	-0.11	-0.016	0.00	0.000	0.11	0.016
3	0.01	0.001	0.00	0.000	0.01	0.001
4	-0.02	-0.003	0.00	0.000	0.02	0.003
5	0.00	0.000	0.01	0.001	0.01	0.001
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.02	0.003	0.02	0.003	0.03	0.004
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.02	0.003	0.02	0.003
20	0.01	0.001	-0.01	-0.001	0.01	0.002
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.04	-0.006	0.04	0.006
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.05	-0.007	0.01	0.001	0.05	0.007
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.04	-0.006	0.04	0.006
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.15	-0.022	-0.20	-0.029	0.25	0.036
2	-0.02	-0.003	-0.06	-0.009	0.06	0.009
3	-0.01	-0.001	0.00	0.000	0.01	0.001
4	0.06	0.009	0.01	0.001	0.06	0.009
5	-0.04	-0.006	-0.04	-0.006	0.06	0.008
6	-0.01	-0.001	0.02	0.003	0.02	0.003
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	0.03	0.004	0.01	0.001	0.03	0.005
10	0.00	0.000	0.02	0.003	0.02	0.003
11	-0.03	-0.004	0.00	0.000	0.03	0.004
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.02	-0.003	-0.01	-0.001	0.02	0.003
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	-0.01	-0.001	0.01	0.002
20	0.01	0.001	0.01	0.001	0.01	0.002
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	0.01	0.001	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

A-67

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 16 RATIO: 0.906 CHORD: 56.5 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.15	-0.022	-0.09	-0.013	0.17	0.025
2	0.16	0.023	0.01	0.001	0.16	0.023
3	0.02	0.003	0.00	0.000	0.02	0.003
4	0.02	0.003	0.02	0.003	0.03	0.004
5	-0.03	-0.004	0.00	0.000	0.03	0.004
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	0.01	0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	0.02	0.003	0.02	0.003
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	-0.02	-0.003	0.02	0.003
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	-0.03	-0.004	0.03	0.004
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.02	0.003	0.02	0.003
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

A-70

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 88.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.15	-0.022	0.11	0.016	0.19	0.027
2	0.02	0.003	-0.04	-0.006	0.04	0.006
8	0.02	0.003	0.00	0.000	0.02	0.003
4	0.00	0.000	0.01	0.001	0.01	0.001
5	-0.01	-0.001	-0.01	-0.001	0.01	0.002
6	0.00	0.000	0.01	0.001	0.01	0.001
7	-0.01	-0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.00	0.000	0.04	0.006	0.04	0.006
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.01	0.001	0.01	0.001	0.01	0.002
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
80	0.00	0.000	0.01	0.001	0.01	0.001
81	0.00	0.000	0.00	0.000	0.00	0.000
82	0.00	0.000	0.00	0.000	0.00	0.000
83	0.01	0.001	0.01	0.001	0.01	0.002
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	0.00	0.000	0.00	0.000

A 77

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.14	0.020	0.18	0.026	0.23	0.033
2	-0.19	-0.028	-0.02	-0.003	0.19	0.028
3	0.15	0.022	0.00	0.000	0.15	0.022
4	-0.05	-0.007	-0.08	-0.004	0.06	0.008
5	0.17	0.025	-0.01	-0.001	0.17	0.025
6	-0.17	-0.025	0.18	0.026	0.25	0.036
7	0.00	0.000	-0.23	-0.033	0.23	0.033
8	0.10	0.015	0.12	0.017	0.16	0.023
9	-0.07	-0.010	-0.03	-0.004	0.08	0.011
10	0.02	0.003	0.05	0.007	0.05	0.008
11	-0.08	-0.012	-0.07	-0.010	0.11	0.015
12	0.12	0.017	0.01	0.001	0.12	0.017
13	-0.07	-0.010	0.05	0.007	0.09	0.012
14	0.00	0.000	-0.05	-0.007	0.05	0.007
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.02	-0.003	0.01	0.001	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.01	0.001	0.01	0.001
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	-0.01	-0.001	-0.02	-0.003	0.02	0.003
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.03	0.004	0.01	0.001	0.03	0.005
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.02	0.003	0.02	0.003
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.02	0.003	-0.03	-0.004	0.04	0.005
35	0.00	0.000	0.00	0.000	0.00	0.000

A72

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.12	-0.017	0.12	0.017
2	0.01	0.001	-0.01	-0.001	0.01	0.002
3	0.01	0.001	0.01	0.001	0.01	0.002
4	0.04	0.006	0.01	0.001	0.04	0.006
5	-0.03	-0.004	-0.03	-0.004	0.04	0.006
6	-0.04	-0.006	0.02	0.003	0.04	0.006
7	-0.01	-0.001	-0.02	-0.003	0.02	0.003
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	0.01	0.001	0.01	0.002
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	0.03	0.004	0.03	0.005
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.3 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.14	-0.020	-0.15	-0.022	0.21	0.030
2	0.23	0.033	-0.02	-0.003	0.23	0.033
3	0.08	0.012	0.00	0.000	0.08	0.012
4	0.14	0.020	0.08	0.012	0.16	0.023
5	-0.03	-0.004	0.07	0.010	0.08	0.011
6	-0.10	-0.015	-0.01	-0.001	0.10	0.015
7	-0.03	-0.004	-0.08	-0.012	0.09	0.012
8	0.07	0.010	-0.03	-0.004	0.08	0.011
9	0.04	0.006	0.09	0.013	0.10	0.014
10	-0.05	-0.007	0.02	0.003	0.05	0.008
11	-0.05	-0.007	-0.02	-0.003	0.05	0.008
12	0.02	0.003	-0.03	-0.004	0.04	0.005
13	0.03	0.004	0.02	0.003	0.04	0.005
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	-0.02	-0.003	-0.02	-0.003	0.03	0.004
32	0.01	0.001	0.02	0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A77

UNIFORM INFLOW

RUN NUMBER 87

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.109 +/- 0.001
 BLADE ANGLE (DEG): 52.8 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.18	-0.026	0.19	0.028
2	0.23	0.033	0.06	0.009	0.24	0.034
3	0.01	0.001	0.08	0.012	0.08	0.012
4	0.04	0.006	0.00	0.000	0.04	0.006
5	0.00	0.000	-0.02	-0.003	0.02	0.003
6	0.00	0.000	0.02	0.003	0.02	0.003
7	0.00	0.000	0.01	0.001	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	0.02	0.003	0.03	0.004
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.02	0.003	-0.04	-0.006	0.04	0.006
13	0.02	0.003	-0.01	-0.001	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.02	0.003	0.00	0.000	0.02	0.003
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.01	0.001	0.01	0.001
20	-0.05	-0.007	0.03	0.004	0.06	0.008
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	0.02	0.003	0.02	0.003
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	-0.04	-0.006	0.04	0.006
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.09	-0.013	-0.04	-0.006	0.10	0.014
35	0.00	0.000	0.00	0.000	0.00	0.000

A/B

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.860 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	0.41	0.059	0.41	0.060
2	-0.21	-0.030	-0.03	-0.004	0.21	0.031
3	-0.02	-0.003	0.01	0.001	0.02	0.003
4	0.03	0.004	0.09	0.013	0.09	0.014
5	0.03	0.004	0.01	0.001	0.03	0.005
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.03	0.004	0.00	0.000	0.03	0.004
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.03	0.004	0.00	0.000	0.03	0.004
10	-0.01	-0.001	0.03	0.004	0.03	0.005
11	-0.05	-0.007	0.02	0.003	0.05	0.008
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	0.02	0.003	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	-0.06	-0.009	0.06	0.009
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.02	0.003	-0.01	-0.001	0.02	0.003
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	-0.01	-0.001	0.01	0.002
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.01	0.001	0.01	0.001	0.01	0.002

A 76

UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.860 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 5 RATIO: 0.906 CHORD: 69.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.18	0.026	0.82	0.046	0.37	0.053
2	-0.20	-0.029	-0.05	-0.007	0.21	0.030
3	-0.01	-0.001	0.10	0.015	0.10	0.015
4	0.06	0.009	0.07	0.010	0.09	0.013
5	-0.01	-0.001	0.00	0.000	0.01	0.001
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	0.01	0.001	0.01	0.001
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	0.02	0.003	0.03	0.004	0.04	0.005
10	-0.02	-0.003	0.00	0.000	0.02	0.003
11	-0.02	-0.003	0.01	0.001	0.02	0.003
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	-0.02	-0.003	0.02	0.003
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	0.01	0.001	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.29	0.042	0.30	0.043
2	-0.15	-0.022	-0.03	-0.004	0.15	0.022
8	-0.04	-0.006	-0.01	-0.001	0.04	0.006
4	0.00	0.000	0.02	0.003	0.02	0.003
5	0.02	0.003	0.00	0.000	0.02	0.003
6	0.02	0.003	0.01	0.001	0.02	0.003
7	0.03	0.004	0.00	0.000	0.03	0.004
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.01	0.001	0.02	0.003	0.02	0.003
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.03	0.004	0.00	0.000	0.03	0.004
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.02	0.003	0.02	0.003
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.02	0.003	0.02	0.003
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	0.02	0.003	0.03	0.004
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	-0.02	-0.003	0.00	0.000	0.02	0.003

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UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.85	0.051	0.85	0.051
2	-0.18	-0.026	-0.03	-0.004	0.18	0.026
3	-0.04	-0.006	-0.04	-0.006	0.06	0.008
4	0.00	0.000	0.05	0.007	0.05	0.007
5	0.02	0.003	0.01	0.001	0.02	0.003
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.02	-0.003	-0.01	-0.001	0.02	0.003
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.02	-0.003	0.00	0.000	0.02	0.003
13	-0.02	-0.003	0.02	0.003	0.03	0.004
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.01	0.001	0.01	0.002
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

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UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.860 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 9 RATIO: 0.641 CHORD: 23.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.37	0.054	0.38	0.055
2	-0.24	-0.035	-0.01	-0.001	0.24	0.035
3	-0.02	-0.003	-0.04	-0.006	0.04	0.006
4	0.00	0.000	0.04	0.006	0.04	0.006
5	0.03	0.004	0.03	0.004	0.04	0.006
6	0.02	0.003	0.00	0.000	0.02	0.003
7	0.00	0.000	-0.02	-0.003	0.02	0.003
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.01	0.001	-0.02	-0.003	0.02	0.003
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.01	0.001	0.01	0.002
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.02	0.003	0.02	0.003	0.03	0.004
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	-0.02	-0.003	0.02	0.003

A 20

UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.30	0.044	0.30	0.044
2	-0.18	-0.026	-0.04	-0.006	0.18	0.027
3	-0.01	-0.001	-0.02	-0.003	0.02	0.003
4	0.01	0.001	0.04	0.006	0.04	0.006
5	0.03	0.004	0.01	0.001	0.03	0.005
6	0.02	0.003	0.00	0.000	0.02	0.003
7	0.02	0.003	0.01	0.001	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.04	-0.006	0.01	0.001	0.04	0.006
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.02	0.003	0.01	0.001	0.02	0.003
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	-0.03	-0.004	0.03	0.004
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	-0.03	-0.004	-0.01	-0.001	0.03	0.005
28	0.00	0.000	-0.01	-0.001	0.02	0.003
29	-0.02	-0.003	-0.01	-0.001	0.02	0.003
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	0.01	0.001	0.01	0.002
32	0.01	0.001	0.00	0.000	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

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UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.24	0.035	0.25	0.036
2	-0.16	-0.023	0.00	0.000	0.16	0.023
3	-0.02	-0.003	-0.03	-0.004	0.04	0.005
4	0.00	0.000	0.04	0.006	0.04	0.006
5	0.04	0.006	0.01	0.001	0.04	0.006
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.02	0.003	0.00	0.000	0.02	0.003
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	0.00	0.000	0.02	0.003	0.02	0.003
10	0.00	0.000	0.02	0.003	0.02	0.003
11	0.00	0.000	0.03	0.004	0.03	0.004
12	0.04	0.006	0.01	0.001	0.04	0.006
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.01	0.001	0.00	0.000	0.01	0.001
17	-0.01	-0.001	0.01	0.001	0.01	0.002
18	0.00	0.000	0.02	0.003	0.02	0.003
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	-0.01	-0.001	-0.04	-0.006	0.04	0.006
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.02	0.003	0.01	0.001	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.02	-0.003	-0.07	-0.010	0.07	0.011
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	-0.02	-0.003	0.00	0.000	0.02	0.003

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UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.24	0.035	0.17	0.025	0.29	0.048
2	-0.26	-0.038	-0.01	-0.001	0.26	0.038
3	0.00	0.000	0.02	0.003	0.02	0.003
4	0.00	0.000	0.08	0.004	0.03	0.004
5	0.04	0.006	0.00	0.000	0.04	0.006
6	0.01	0.001	-0.01	-0.001	0.01	0.002
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	0.01	0.001	0.02	0.003
10	-0.01	-0.001	-0.03	-0.004	0.03	0.005
11	-0.02	-0.003	0.04	0.006	0.04	0.006
12	0.03	0.004	0.00	0.000	0.03	0.004
13	0.01	0.001	-0.01	-0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	0.00	0.000	-0.04	-0.006	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.02	-0.003	0.00	0.000	0.02	0.003

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.14	0.020	0.15	0.022
2	-0.09	-0.013	0.00	0.000	0.09	0.013
3	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.03	0.004	-0.01	-0.001	0.03	0.005
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.01	0.001	0.01	0.001
11	-0.01	-0.001	0.01	0.001	0.01	0.002
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	-0.01	-0.001	-0.03	-0.004	0.03	0.005
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.03	-0.004	-0.01	-0.001	0.03	0.005
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.01	0.001	0.00	0.000	0.01	0.001
27	-0.03	-0.004	-0.04	-0.006	0.05	0.007
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.03	0.004	-0.01	-0.001	0.03	0.005
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	-0.04	-0.006	0.01	0.001	0.04	0.006

A 74

UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.14	-0.020	-0.24	-0.035	0.28	0.040
2	-0.05	-0.007	-0.02	-0.003	0.05	0.003
3	0.02	0.003	-0.02	-0.003	0.03	0.004
4	0.06	0.009	0.00	0.000	0.06	0.009
5	-0.05	-0.007	0.01	0.001	0.05	0.007
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	-0.03	-0.004	0.00	0.000	0.03	0.004
9	0.00	0.000	-0.05	-0.007	0.05	0.007
10	0.04	0.006	0.01	0.001	0.04	0.006
11	-0.02	-0.003	0.04	0.006	0.04	0.006
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.00	0.000	0.01	0.001	0.01	0.001
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.02	0.003	0.02	0.003
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	0.01	0.001	-0.01	-0.001	0.01	0.001
27	-0.02	-0.003	0.00	0.000	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.02	0.003	-0.01	-0.001	0.02	0.003
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-65

UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.19	-0.028	-0.18	-0.026	0.26	0.038
2	0.22	0.032	0.03	0.004	0.22	0.032
3	0.00	0.000	-0.02	-0.003	0.02	0.003
4	0.04	0.006	0.04	0.006	0.06	0.008
5	-0.02	-0.003	0.01	0.001	0.02	0.003
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	-0.01	-0.001	0.01	0.002
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	0.04	0.006	-0.01	-0.001	0.04	0.006
11	-0.01	-0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.00	0.000	0.02	0.003	0.02	0.003
16	0.00	0.000	-0.09	-0.013	0.09	0.013
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A 96

UNIFORM INFLOW

RUN NUMBER 38

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.13	-0.019	0.11	0.016	0.17	0.025
2	-0.03	-0.004	-0.06	-0.009	0.07	0.010
3	0.00	0.000	-0.02	-0.003	0.02	0.003
4	0.00	0.000	0.01	0.001	0.01	0.001
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.02	0.003	0.01	0.001	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	0.03	0.004	0.04	0.006	0.05	0.007
11	-0.03	-0.004	0.03	0.004	0.04	0.006
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.02	0.003	-0.02	-0.003	0.03	0.004
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.03	-0.004	0.03	0.004
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.03	-0.004	0.03	0.004
28	0.02	0.003	0.01	0.001	0.02	0.003
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.02	0.003	0.00	0.000	0.02	0.003
35	0.01	0.001	0.01	0.001	0.01	0.002

H-37

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.860 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.018	0.14	0.020	0.17	0.024
2	-0.20	-0.029	0.00	0.000	0.20	0.029
8	0.18	0.019	-0.09	-0.013	0.16	0.023
4	-0.05	-0.007	0.00	0.000	0.05	0.007
5	0.10	0.015	-0.11	-0.016	0.15	0.022
6	0.02	0.003	0.23	0.033	0.23	0.033
7	-0.18	-0.026	-0.12	-0.017	0.22	0.031
8	0.16	0.023	-0.05	-0.007	0.17	0.024
9	-0.06	-0.009	0.05	0.007	0.08	0.011
10	0.03	0.004	-0.02	-0.003	0.04	0.005
11	-0.07	-0.010	0.07	0.010	0.10	0.014
12	-0.01	-0.001	-0.12	-0.017	0.12	0.017
13	0.07	0.010	0.05	0.007	0.09	0.012
14	-0.02	-0.003	0.03	0.004	0.04	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.02	0.003	0.03	0.004	0.02	0.003
18	0.00	0.000	0.03	0.004	0.03	0.004
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	-0.03	-0.004	0.03	0.005
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	0.02	0.003	0.03	0.004
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-88

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.04	-0.006	-0.15	-0.022	0.16	0.023
2	0.01	0.001	-0.08	-0.004	0.03	0.005
3	0.01	0.001	0.00	0.000	0.01	0.001
4	0.02	0.003	-0.01	-0.001	0.02	0.003
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.04	-0.006	0.00	0.000	0.04	0.006
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.02	-0.003	0.02	0.003	0.03	0.004
33	-0.02	-0.003	0.02	0.003	0.03	0.004
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.01	0.001	-0.02	-0.003	0.02	0.003

AKG

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.16	-0.023	-0.21	-0.030	0.26	0.038
2	0.22	0.032	-0.08	-0.012	0.23	0.034
3	0.07	0.010	-0.01	-0.001	0.07	0.010
4	0.17	0.025	0.00	0.000	0.17	0.025
5	0.03	0.004	0.06	0.009	0.07	0.010
6	-0.07	-0.010	0.06	0.009	0.09	0.013
7	-0.07	-0.010	-0.01	-0.001	0.07	0.010
8	0.00	0.000	-0.09	-0.013	0.09	0.013
9	0.10	0.015	-0.01	-0.001	0.10	0.015
10	0.02	0.003	0.06	0.009	0.06	0.009
11	-0.03	-0.004	0.04	0.006	0.05	0.007
12	-0.03	-0.004	-0.02	-0.003	0.04	0.005
13	0.00	0.000	-0.03	-0.004	0.03	0.004
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	-0.01	-0.001	0.02	0.003	0.02	0.003
19	0.01	0.001	-0.01	-0.001	0.01	0.002
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.02	-0.003	0.02	0.003
34	0.03	0.004	-0.01	-0.001	0.03	0.005
35	0.00	0.000	0.00	0.000	0.00	0.000

A 70

UNIFORM INFLOW

RUN NUMBER 88

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.360 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	-0.26	-0.038	0.26	0.038
2	0.26	0.038	-0.02	-0.003	0.26	0.038
3	0.06	0.009	0.08	0.012	0.10	0.015
4	0.05	0.007	-0.04	-0.006	0.06	0.009
5	-0.02	-0.003	-0.01	-0.001	0.02	0.003
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.01	0.001	0.02	0.003	0.02	0.003
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	0.04	0.006	0.00	0.000	0.04	0.006
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.02	0.003	0.05	0.007	0.05	0.008
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	0.01	0.001	0.01	0.001	0.01	0.002
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	0.01	0.001	-0.04	-0.006	0.04	0.006
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	-0.01	-0.001	-0.03	-0.004	0.03	0.005
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.01	0.001	0.02	0.003	0.02	0.003
25	0.03	0.004	0.00	0.000	0.03	0.004
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	0.02	0.003	-0.03	-0.004	0.04	0.005
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.03	-0.004	0.00	0.000	0.03	0.004
34	0.00	0.000	-0.03	-0.004	0.03	0.004
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

A91

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.658 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.05	-0.007	0.34	0.049	0.34	0.050
2	-0.17	-0.025	-0.09	-0.013	0.19	0.028
3	-0.07	-0.010	-0.01	-0.001	0.07	0.010
4	0.02	0.003	0.09	0.013	0.09	0.013
5	0.02	0.003	0.03	0.004	0.04	0.005
6	0.04	0.006	0.01	0.001	0.04	0.006
7	0.01	0.001	0.04	0.006	0.04	0.006
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.03	0.004	0.03	0.005
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.01	-0.001	-0.02	-0.003	0.02	0.003
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.02	0.003	-0.02	-0.003	0.03	0.004
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	0.02	0.003	0.02	0.003
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.01	0.001	0.04	0.006	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.02	-0.003	-0.02	-0.003	0.03	0.004
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

A72

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.008
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.26	0.038	0.26	0.038
2	-0.25	-0.036	-0.20	-0.029	0.82	0.046
8	-0.06	-0.009	0.08	0.004	0.07	0.010
4	0.02	0.003	0.10	0.015	0.10	0.015
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.05	0.007	0.04	0.006	0.06	0.009
7	0.00	0.000	0.02	0.003	0.02	0.003
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	0.01	0.001	0.03	0.004	0.03	0.005
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	0.02	0.003	0.01	0.001	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	0.01	0.001	0.02	0.003
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.06	-0.009	0.06	0.009
34	-0.02	-0.003	-0.01	-0.001	0.02	0.003
35	0.00	0.000	0.01	0.001	0.01	0.001

A-73

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.063
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.11	-0.016	0.25	0.036	0.27	0.040
2	-0.12	-0.017	-0.12	-0.017	0.17	0.025
3	-0.08	-0.012	-0.02	-0.003	0.08	0.012
4	0.01	0.001	0.04	0.006	0.04	0.006
5	0.01	0.001	0.00	0.000	0.01	0.001
6	0.01	0.001	0.03	0.004	0.03	0.005
7	0.01	0.001	0.04	0.006	0.04	0.006
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.03	0.004	0.03	0.005
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.05	-0.007	0.05	0.007
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.02	-0.003	-0.01	-0.001	0.02	0.003

A-94

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.35	0.051	0.35	0.051
2	-0.16	-0.023	-0.09	-0.013	0.18	0.027
3	-0.04	-0.006	-0.10	-0.015	0.11	0.016
4	0.00	0.000	0.06	0.009	0.06	0.009
5	0.01	0.001	0.05	0.007	0.05	0.007
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.02	0.003	0.00	0.000	0.02	0.003
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.02	-0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

A-95

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.41	0.059	0.42	0.060
2	-0.22	-0.032	-0.11	-0.016	0.25	0.036
3	-0.03	-0.004	-0.08	-0.012	0.09	0.012
4	0.00	0.000	0.04	0.006	0.04	0.006
5	0.01	0.001	0.06	0.009	0.06	0.009
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.02	0.003	0.00	0.000	0.02	0.003
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.01	0.001	0.01	0.001
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.03	-0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	-0.02	-0.003	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.02	0.003	0.02	0.003

A-710

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.05	0.007	0.30	0.044	0.30	0.044
2	-0.14	-0.020	-0.09	-0.013	0.17	0.024
3	-0.06	-0.009	-0.05	-0.007	0.08	0.011
4	0.02	0.003	0.05	0.007	0.05	0.008
5	0.02	0.003	0.05	0.007	0.05	0.008
6	0.03	0.004	0.01	0.001	0.03	0.005
7	0.00	0.000	0.02	0.003	0.02	0.003
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	-0.03	-0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.03	0.004	0.03	0.005
13	0.00	0.000	-0.03	-0.004	0.03	0.004
14	-0.01	-0.001	-0.01	-0.001	0.01	0.002
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	-0.04	-0.006	0.00	0.000	0.04	0.006
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-97

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.23	0.038	0.24	0.034
2	-0.17	-0.025	-0.09	-0.018	0.19	0.028
3	-0.04	-0.006	-0.03	-0.004	0.05	0.007
4	0.02	0.003	0.02	0.003	0.03	0.004
5	0.02	0.003	0.02	0.003	0.03	0.004
6	0.04	0.006	0.02	0.003	0.04	0.006
7	0.02	0.003	0.01	0.001	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.03	0.004	0.01	0.001	0.03	0.005
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.02	-0.003	0.01	0.001	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.03	-0.004	0.00	0.000	0.03	0.004
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.04	0.006	0.02	0.003	0.04	0.006
20	-0.03	-0.004	0.04	0.006	0.05	0.007
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.05	0.007	0.01	0.001	0.05	0.007
27	0.00	0.000	-0.04	-0.006	0.04	0.006
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	-0.01	-0.001	0.01	0.002

C-2

A-77

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.19	0.028	0.16	0.023	0.25	0.036
2	-0.26	-0.038	-0.11	-0.016	0.28	0.041
3	-0.03	-0.004	0.01	0.001	0.03	0.005
4	0.02	0.003	0.01	0.001	0.02	0.003
5	0.02	0.003	0.03	0.004	0.04	0.005
6	0.04	0.006	0.00	0.000	0.04	0.006
7	0.02	0.003	0.00	0.000	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.02	0.003	0.02	0.003
10	0.02	0.003	0.00	0.000	0.02	0.003
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.01	0.001	0.01	0.002
13	0.03	0.004	-0.01	-0.001	0.03	0.005
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	0.03	0.004	0.03	0.005
21	0.00	0.000	0.01	0.001	0.01	0.001
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	-0.01	-0.001	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	-0.02	-0.003	0.02	0.003
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.05	0.007	0.05	0.007
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

A-77

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 13 RATIO: 0.641 CHORD: 83.3 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.12	0.017	0.13	0.019
2	-0.11	-0.016	-0.01	-0.001	0.11	0.016
3	-0.03	-0.004	-0.01	-0.001	0.03	0.005
4	0.00	0.000	0.00	0.000	0.00	0.000
5	0.02	0.003	0.00	0.000	0.02	0.003
6	0.03	0.004	0.00	0.000	0.03	0.004
7	0.06	0.009	0.02	0.003	0.06	0.009
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.02	0.003	-0.01	-0.001	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.01	0.001	0.01	0.001
18	-0.03	-0.004	-0.02	-0.003	0.04	0.005
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	0.02	0.003	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

A-100

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.17	-0.025	-0.16	-0.023	0.23	0.034
2	-0.06	-0.009	-0.19	-0.028	0.20	0.029
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.05	0.007	0.02	0.003	0.05	0.008
5	-0.08	-0.012	-0.08	-0.004	0.09	0.012
6	-0.01	-0.001	0.05	0.007	0.05	0.007
7	-0.01	-0.001	-0.02	-0.003	0.02	0.003
8	0.01	0.001	-0.05	-0.007	0.05	0.007
9	0.01	0.001	0.06	0.009	0.06	0.009
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	0.02	0.003	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.01	0.001	0.01	0.002
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.02	0.003	0.03	0.004	0.04	0.005
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

A-101

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.24	-0.035	0.06	0.009	0.25	0.036
2	0.11	0.016	-0.06	-0.009	0.13	0.018
3	0.03	0.004	-0.01	-0.001	0.03	0.005
4	0.01	0.001	0.06	0.009	0.06	0.009
5	-0.05	-0.007	-0.01	-0.001	0.05	0.007
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	0.01	0.001	0.01	0.001	0.01	0.002
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.01	0.001	0.01	0.002
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.07	0.010	0.05	0.007	0.09	0.012
17	0.00	0.000	0.01	0.001	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.02	0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	0.00	0.000	0.02	0.003
29	0.00	0.000	-0.02	-0.003	0.02	0.003
30	0.02	0.003	0.01	0.001	0.02	0.003
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-102

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.17	-0.025	0.05	0.007	0.18	0.026
2	0.00	0.000	-0.10	-0.015	0.10	0.015
3	0.02	0.003	-0.04	-0.006	0.04	0.006
4	0.02	0.003	0.00	0.000	0.02	0.003
5	-0.01	-0.001	0.00	0.000	0.01	0.001
6	0.00	0.000	0.05	0.007	0.05	0.007
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	-0.02	-0.003	0.02	0.003
9	0.02	0.003	0.01	0.001	0.02	0.003
10	-0.01	-0.001	0.03	0.004	0.03	0.005
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.03	0.004	0.00	0.000	0.03	0.004
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	0.01	0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.01	0.001	-0.01	-0.001	0.01	0.002
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.02	0.003	0.00	0.000	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.02	0.003	0.02	0.003
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	-0.02	-0.003	0.00	0.000	0.02	0.003
31	0.03	0.004	0.00	0.000	0.03	0.004
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

A 103

UNIFORM INFLOW

RUN NUMBER 89

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.09	0.013	0.11	0.016
2	-0.16	-0.023	-0.06	-0.009	0.17	0.025
8	0.17	0.025	-0.01	-0.001	0.17	0.025
4	-0.01	-0.001	-0.08	-0.004	0.03	0.005
5	0.16	0.023	-0.02	-0.003	0.16	0.023
6	-0.15	-0.022	0.17	0.025	0.23	0.033
7	0.00	0.000	-0.21	-0.030	0.21	0.030
8	0.09	0.013	0.13	0.019	0.16	0.023
9	-0.06	-0.009	-0.08	-0.004	0.07	0.010
10	0.03	0.004	0.03	0.004	0.04	0.006
11	-0.10	-0.015	-0.06	-0.009	0.12	0.017
12	0.12	0.017	0.00	0.000	0.12	0.017
13	-0.09	-0.013	0.07	0.010	0.11	0.017
14	0.00	0.000	-0.04	-0.006	0.04	0.006
15	0.01	0.001	0.02	0.003	0.02	0.003
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.02	0.003	0.02	0.003
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.00	0.000	0.01	0.001
24	-0.01	-0.001	0.03	0.004	0.03	0.005
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.04	0.006	0.04	0.006
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

A-104

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.008
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.05	-0.007	-0.28	-0.041	0.28	0.041
2	0.08	0.012	0.00	0.000	0.08	0.012
3	0.00	0.000	0.01	0.001	0.01	0.001
4	0.07	0.010	0.00	0.000	0.07	0.010
5	0.02	0.003	-0.02	-0.003	0.03	0.004
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.00	0.000	0.01	0.001	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.01	-0.001	-0.02	-0.003	0.02	0.003
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.01	0.001	0.01	0.001
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.04	0.006	0.04	0.006
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	-0.01	-0.001	0.01	0.002

A-105

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 3.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.18	-0.026	-0.41	-0.059	0.45	0.065
2	0.31	0.045	0.01	0.001	0.31	0.045
3	0.05	0.007	0.06	0.009	0.08	0.011
4	0.18	0.026	0.06	0.009	0.19	0.028
5	0.00	0.000	0.05	0.007	0.05	0.007
6	-0.09	-0.013	-0.01	-0.001	0.09	0.013
7	-0.03	-0.004	-0.06	-0.009	0.07	0.010
8	0.07	0.010	-0.03	-0.004	0.08	0.011
9	0.03	0.004	0.10	0.015	0.10	0.015
10	-0.05	-0.007	0.03	0.004	0.06	0.008
11	-0.03	-0.004	-0.04	-0.006	0.05	0.007
12	0.04	0.006	-0.04	-0.006	0.06	0.008
13	0.03	0.004	0.01	0.001	0.03	0.005
14	-0.03	-0.004	0.01	0.001	0.03	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	-0.03	-0.004	0.04	0.005
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

A-106

UNIFORM INFLOW

RUN NUMBER 39

POINT NUMBER: 7
 MACH NUMBER: 0.499 +/- 0.002
 ADVANCE RATIO: 8.064 +/- 0.012
 POWER COEFFICIENT: 0.653 +/- 0.003
 BLADE ANGLE (DEG): 58.5 +/- 0.5
 ROTOR SPEED (RPM): 1194 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	-0.48	-0.070	0.48	0.070
2	0.38	0.048	0.09	0.013	0.34	0.050
3	-0.01	-0.001	0.18	0.026	0.18	0.026
4	0.09	0.013	-0.01	-0.001	0.09	0.013
5	-0.01	-0.001	-0.07	-0.010	0.07	0.010
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.04	0.006	0.04	0.006
10	-0.01	-0.001	0.01	0.001	0.01	0.002
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.03	-0.004	0.01	0.001	0.03	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.02	0.003	0.02	0.003	0.03	0.004
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	0.01	0.001	-0.01	-0.001	0.01	0.002
20	0.02	0.003	0.03	0.004	0.04	0.005
21	-0.01	-0.001	-0.02	-0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.02	0.003	0.02	0.003	0.03	0.004
24	-0.07	-0.010	-0.01	-0.001	0.07	0.010
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	-0.02	-0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.03	-0.004	0.03	0.004
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

A-107

APPENDIX B
ANGULAR INFLOW DATA

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.018
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	-0.15	-0.022	0.15	0.022
2	0.04	0.006	-0.01	-0.001	0.04	0.006
3	-0.02	-0.003	-0.04	-0.006	0.04	0.006
4	-0.02	-0.003	0.04	0.006	0.04	0.006
5	0.00	0.000	0.00	0.000	0.00	0.000
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.00	0.000	0.00	0.000
10	-0.01	-0.001	-0.01	-0.001	0.01	0.002
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	-0.04	-0.006	-0.01	-0.001	0.04	0.006
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

B-2

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.013
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	0.04	0.006	0.10	0.014
2	0.00	0.000	0.11	0.016	0.11	0.016
3	-0.08	-0.012	0.02	0.003	0.08	0.012
4	-0.05	-0.007	-0.06	-0.009	0.08	0.011
5	0.02	0.003	-0.10	-0.015	0.10	0.015
6	0.09	0.013	0.04	0.006	0.10	0.014
7	-0.02	-0.003	0.03	0.004	0.04	0.005
8	-0.04	-0.006	0.04	0.006	0.06	0.008
9	-0.05	-0.007	-0.03	-0.004	0.06	0.008
10	0.03	0.004	-0.06	-0.009	0.07	0.010
11	0.05	0.007	0.02	0.003	0.05	0.008
12	-0.02	-0.003	0.02	0.003	0.03	0.004
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.018
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.09	-0.018	0.23	0.033	0.25	0.036
2	-0.18	-0.026	0.00	0.000	0.18	0.026
3	0.08	0.012	-0.09	-0.013	0.12	0.017
4	-0.02	-0.003	0.01	0.001	0.02	0.003
5	0.05	0.007	-0.02	-0.003	0.05	0.008
6	0.01	0.001	0.14	0.020	0.14	0.020
7	-0.07	-0.010	-0.04	-0.006	0.08	0.012
8	0.10	0.015	-0.01	-0.001	0.10	0.015
9	-0.05	-0.007	0.01	0.001	0.05	0.007
10	0.02	0.003	-0.02	-0.003	0.03	0.004
11	-0.04	-0.006	0.04	0.006	0.06	0.008
12	-0.01	-0.001	-0.07	-0.010	0.07	0.010
13	0.03	0.004	0.04	0.006	0.05	0.007
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.02	0.003	0.02	0.003
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-4

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.013
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.10	-0.015	0.10	0.015	0.14	0.021
2	-0.07	-0.010	-0.09	-0.013	0.11	0.017
8	0.05	0.007	-0.03	-0.004	0.06	0.008
4	-0.01	-0.001	-0.04	-0.006	0.04	0.006
5	0.02	0.003	0.01	0.001	0.02	0.003
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.02	0.003	0.02	0.003	0.03	0.004
8	-0.02	-0.003	0.03	0.004	0.04	0.005
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	-0.02	-0.003	-0.01	-0.001	0.02	0.003
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.03	0.004	0.03	0.004
18	-0.02	-0.003	0.01	0.001	0.02	0.003
19	0.02	0.003	0.00	0.000	0.02	0.003
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.02	-0.003	-0.01	-0.001	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.02	-0.003	-0.01	-0.001	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-5

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.018
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.16	-0.023	0.32	0.046	0.36	0.052
2	0.02	0.003	-0.01	-0.001	0.02	0.003
3	0.04	0.006	-0.09	-0.018	0.10	0.014
4	0.00	0.000	-0.03	-0.004	0.03	0.004
5	0.00	0.000	0.08	0.012	0.08	0.012
6	-0.05	-0.007	0.02	0.003	0.05	0.008
7	0.01	0.001	-0.02	-0.003	0.02	0.003
8	-0.02	-0.003	-0.06	-0.009	0.06	0.009
9	0.08	0.012	-0.02	-0.003	0.08	0.012
10	0.02	0.003	0.00	0.000	0.02	0.003
11	0.01	0.001	0.02	0.003	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.01	0.001	-0.03	-0.004	0.03	0.005
14	0.02	0.003	0.01	0.001	0.02	0.003
15	-0.01	-0.001	0.03	0.004	0.03	0.005
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.02	0.003	0.01	0.001	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.04	0.006	0.00	0.000	0.04	0.006
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.04	0.006	0.03	0.004	0.05	0.007
25	0.03	0.004	0.00	0.000	0.03	0.004
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	-0.02	-0.003	-0.03	-0.004	0.04	0.005
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.02	0.003	0.02	0.003
31	-0.01	-0.001	-0.02	-0.003	0.02	0.003
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B-6

8 DEGREE ANGULAR INFLOW

RUN NUMBER 2

POINT NUMBER: 2
 MACH NUMBER: 0.017 +/- 0.018
 ADVANCE RATIO: 0.107 +/- 0.076
 POWER COEFFICIENT: 0.096 +/- 0.001
 BLADE ANGLE (DEG): 14.9 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.14	0.020	0.05	0.007	0.15	0.022
2	-0.04	-0.006	-0.01	-0.001	0.04	0.006
8	-0.01	-0.001	0.09	0.018	0.09	0.013
4	0.00	0.000	0.01	0.001	0.01	0.001
5	0.02	0.003	0.01	0.001	0.02	0.003
6	0.04	0.006	-0.04	-0.006	0.06	0.008
7	0.00	0.000	0.03	0.004	0.03	0.004
8	-0.02	-0.003	-0.02	-0.003	0.03	0.004
9	-0.04	-0.006	0.01	0.001	0.04	0.006
10	-0.01	-0.001	0.05	0.007	0.05	0.007
11	-0.01	-0.001	0.05	0.007	0.05	0.007
12	-0.02	-0.003	-0.02	-0.003	0.03	0.004
18	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	-0.03	-0.004	0.03	0.004
15	0.06	0.009	0.02	0.003	0.06	0.009
16	0.01	0.001	0.05	0.007	0.05	0.007
17	0.02	0.003	-0.03	-0.004	0.04	0.005
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	-0.01	-0.001	0.09	0.018	0.09	0.013
21	-0.03	-0.004	-0.02	-0.003	0.04	0.005
22	0.00	0.000	0.01	0.001	0.01	0.001
28	-0.01	-0.001	0.02	0.003	0.02	0.003
24	-0.03	-0.004	0.00	0.000	0.03	0.004
25	0.00	0.000	0.05	0.007	0.05	0.007
26	0.06	0.009	0.02	0.003	0.06	0.009
27	0.00	0.000	0.11	0.016	0.11	0.016
28	-0.05	-0.007	0.03	0.004	0.06	0.008
29	0.03	0.004	0.00	0.000	0.03	0.004
80	0.00	0.000	-0.04	-0.006	0.04	0.006
81	0.01	0.001	-0.04	-0.006	0.04	0.006
82	-0.01	-0.001	0.00	0.000	0.01	0.001
88	-0.01	-0.001	-0.01	-0.001	0.01	0.002
84	0.00	0.000	0.01	0.001	0.01	0.001
85	0.01	0.001	0.03	0.004	0.03	0.005

B-7

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.018
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	-0.11	-0.016	0.11	0.016
2	0.03	0.004	0.00	0.000	0.03	0.004
3	0.00	0.000	-0.01	-0.001	0.01	0.001
4	0.00	0.000	0.00	0.000	0.00	0.000
5	0.01	0.001	0.00	0.000	0.01	0.001
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.01	0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	0.02	0.003	0.02	0.003
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.03	-0.004	0.04	0.006	0.05	0.007
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.07	0.010	-0.01	-0.001	0.07	0.010
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

B-8

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.018
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.00	0.000	0.03	0.004
2	-0.02	-0.003	-0.01	-0.001	0.02	0.003
3	0.02	0.003	0.00	0.000	0.02	0.003
4	0.01	0.001	-0.01	-0.001	0.01	0.002
5	-0.01	-0.001	0.00	0.000	0.01	0.001
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.02	0.003	-0.01	-0.001	0.02	0.003
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.02	0.003	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.03	0.004	0.03	0.004
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-9

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.013
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.01	0.001	0.01	0.001
2	0.00	0.000	0.00	0.000	0.00	0.000
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	0.01	0.001	0.00	0.000	0.01	0.001
5	0.01	0.001	0.00	0.000	0.01	0.001
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.00	0.000	0.02	0.003	0.02	0.003
8	-0.02	-0.003	0.00	0.000	0.02	0.003
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-D

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.018
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 68.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.004	0.14	0.020	0.14	0.021
2	0.01	0.001	0.12	0.017	0.12	0.017
8	-0.08	-0.012	0.04	0.006	0.09	0.013
4	-0.02	-0.003	-0.06	-0.009	0.06	0.009
5	0.00	0.000	-0.09	-0.013	0.09	0.013
6	0.06	0.009	0.08	0.004	0.07	0.010
7	0.01	0.001	0.01	0.001	0.01	0.002
8	-0.02	-0.003	0.01	0.001	0.02	0.003
9	-0.02	-0.003	-0.02	-0.003	0.03	0.004
10	0.01	0.001	-0.02	-0.003	0.02	0.003
11	0.02	0.003	0.02	0.003	0.03	0.004
12	-0.02	-0.003	0.00	0.000	0.02	0.003
18	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.06	0.009	-0.01	-0.001	0.06	0.009
17	0.03	0.004	-0.01	-0.001	0.03	0.005
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	-0.02	-0.003	0.02	0.003
20	0.02	0.003	0.02	0.003	0.03	0.004
21	0.00	0.000	0.02	0.003	0.02	0.003
22	-0.02	-0.003	0.00	0.000	0.02	0.003
28	0.04	0.006	0.02	0.003	0.04	0.006
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.03	-0.004	0.00	0.000	0.03	0.004
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
80	0.02	0.003	-0.01	-0.001	0.02	0.003
81	0.01	0.001	0.00	0.000	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
88	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	-0.02	-0.003	0.02	0.003
85	0.01	0.001	0.00	0.000	0.01	0.001

7.11

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.013
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.12	-0.017	0.82	0.046	0.84	0.050
2	-0.10	-0.015	-0.07	-0.010	0.12	0.018
8	0.07	0.010	-0.05	-0.007	0.09	0.012
4	0.07	0.010	-0.04	-0.006	0.08	0.012
5	0.04	0.006	-0.14	-0.020	0.15	0.021
6	0.04	0.006	0.02	0.003	0.04	0.006
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.03	0.004	0.00	0.000	0.03	0.004
9	-0.01	-0.001	0.05	0.007	0.05	0.007
10	-0.03	-0.004	0.00	0.000	0.03	0.004
11	0.05	0.007	0.11	0.016	0.12	0.018
12	-0.04	-0.006	-0.01	-0.001	0.04	0.006
13	0.02	0.003	0.01	0.001	0.02	0.003
14	0.02	0.003	0.01	0.001	0.02	0.003
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	0.03	0.004	0.03	0.004
17	0.05	0.007	-0.01	-0.001	0.05	0.007
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	-0.07	-0.010	0.04	0.006	0.08	0.012
20	0.01	0.001	0.05	0.007	0.05	0.007
21	-0.05	-0.007	0.06	0.009	0.08	0.011
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.05	-0.007	-0.02	-0.003	0.05	0.008
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.02	0.003	-0.04	-0.006	0.04	0.006
27	0.01	0.001	0.03	0.004	0.03	0.005
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.02	0.003	-0.03	-0.004	0.04	0.005
30	-0.02	-0.003	0.01	0.001	0.02	0.003
31	-0.01	-0.001	0.02	0.003	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.01	0.001	0.01	0.002

FB

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.013
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.11	-0.016	0.15	0.022	0.19	0.027
2	-0.05	-0.007	-0.16	-0.023	0.17	0.024
8	0.00	0.000	0.02	0.003	0.02	0.003
4	0.04	0.006	0.04	0.006	0.06	0.008
5	0.09	0.013	0.06	0.009	0.11	0.016
6	-0.01	-0.001	0.05	0.007	0.05	0.007
7	-0.03	-0.004	0.01	0.001	0.03	0.005
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.02	0.003	0.01	0.001	0.02	0.003
13	0.01	0.001	0.01	0.001	0.01	0.002
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	0.02	0.003	0.00	0.000	0.02	0.003
17	0.01	0.001	0.03	0.004	0.03	0.005
18	-0.01	-0.001	0.01	0.001	0.01	0.002
19	0.00	0.000	-0.04	-0.006	0.04	0.006
20	0.01	0.001	0.00	0.000	0.01	0.001
21	-0.03	-0.004	0.02	0.003	0.04	0.005
22	0.03	0.004	0.02	0.003	0.04	0.005
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.03	0.004	0.04	0.006	0.05	0.007
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.02	0.003	0.00	0.000	0.02	0.003
28	-0.01	-0.001	0.02	0.003	0.02	0.003
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.01	0.001	0.00	0.000	0.01	0.001
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

BB

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.018
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.00	0.000	0.06	0.009
2	0.00	0.000	-0.01	-0.001	0.01	0.001
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
4	-0.03	-0.004	0.04	0.006	0.05	0.007
5	0.06	0.009	-0.02	-0.003	0.06	0.009
6	0.00	0.000	0.04	0.006	0.04	0.006
7	-0.01	-0.001	-0.05	-0.007	0.05	0.007
8	-0.03	-0.004	-0.01	-0.001	0.03	0.004
9	0.05	0.007	0.02	0.003	0.05	0.007
10	0.01	0.001	-0.02	-0.003	0.02	0.003
11	0.00	0.000	0.02	0.003	0.02	0.003
12	-0.05	-0.007	-0.02	-0.003	0.05	0.007
13	-0.01	-0.001	-0.01	-0.001	0.01	0.001
14	0.02	0.003	0.00	0.000	0.02	0.003
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.03	0.004	-0.01	-0.001	0.03	0.004
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.01	0.001	0.01	0.001
19	0.02	0.003	0.03	0.004	0.04	0.005
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	-0.02	-0.003	0.02	0.003
22	-0.01	-0.001	0.01	0.001	0.01	0.001
23	0.02	0.003	0.00	0.000	0.02	0.003
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.04	0.006	0.04	0.006
28	-0.01	-0.001	0.01	0.001	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

B-14

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 8
 MACH NUMBER: 0.026 +/- 0.013
 ADVANCE RATIO: 0.159 +/- 0.079
 POWER COEFFICIENT: 0.155 +/- 0.001
 BLADE ANGLE (DEG): 19.1 +/- 0.5
 ROTOR SPEED (RPM): 1204 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.00	0.000	0.07	0.010
2	-0.01	-0.001	0.08	0.012	0.08	0.012
3	0.05	0.007	-0.01	-0.001	0.05	0.007
4	0.00	0.000	0.03	0.004	0.03	0.004
5	-0.04	-0.006	-0.03	-0.004	0.05	0.007
6	0.03	0.004	-0.04	-0.006	0.05	0.007
7	0.02	0.003	-0.04	-0.006	0.04	0.006
8	-0.04	-0.006	-0.03	-0.004	0.05	0.007
9	0.03	0.004	0.02	0.003	0.04	0.005
10	0.01	0.001	0.00	0.000	0.01	0.001
11	0.03	0.004	-0.04	-0.006	0.05	0.007
12	-0.04	-0.006	0.01	0.001	0.04	0.006
13	-0.07	-0.010	-0.02	-0.003	0.07	0.011
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	0.06	0.009	0.00	0.000	0.06	0.009
17	-0.02	-0.003	0.03	0.004	0.04	0.006
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	0.01	0.001	0.04	0.006	0.04	0.006
20	0.00	0.000	-0.10	-0.015	0.10	0.015
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	0.02	0.003	0.00	0.000	0.02	0.003
23	-0.03	-0.004	0.02	0.003	0.04	0.006
24	0.00	0.000	0.01	0.001	0.01	0.001
25	-0.01	-0.001	0.02	0.003	0.02	0.003
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.01	0.001	0.04	0.006	0.04	0.006
28	-0.01	-0.001	0.02	0.003	0.02	0.003
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.05	0.007	0.03	0.004	0.06	0.008
34	-0.07	-0.010	0.05	0.007	0.09	0.012
35	0.05	0.007	0.01	0.001	0.05	0.007

755

3 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 2 RATIO: 0.906 CHORD: 29.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	-0.15	-0.022	0.15	0.022
2	0.06	0.009	0.02	0.003	0.06	0.009
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	0.01	0.001	0.01	0.001	0.01	0.002
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.01	0.001	0.02	0.003	0.02	0.003
8	0.03	0.004	0.00	0.000	0.03	0.004
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.02	-0.003	0.02	0.003	0.03	0.004
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.05	0.007	0.05	0.007
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.05	-0.007	0.05	0.007
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.05	0.007	0.02	0.003	0.05	0.008
27	-0.09	-0.013	0.03	0.004	0.09	0.014
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

B-16

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.06	-0.009	0.06	0.009
2	0.01	0.001	-0.02	-0.003	0.02	0.003
3	-0.01	-0.001	-0.03	-0.004	0.03	0.005
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	-0.02	-0.003	-0.01	-0.001	0.02	0.003
6	0.00	0.000	0.00	0.000	0.00	0.000
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	-0.02	-0.003	0.00	0.000	0.02	0.003
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-17

3 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.018
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.01	0.001	0.01	0.001
2	-0.01	-0.001	-0.01	-0.001	0.01	0.002
3	-0.01	-0.001	0.02	0.003	0.02	0.003
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.00	0.000	-0.01	-0.001	0.01	0.001
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.03	0.004	0.00	0.000	0.03	0.004
8	-0.02	-0.003	-0.01	-0.001	0.02	0.003
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	0.01	0.001	-0.04	-0.006	0.04	0.006
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.02	-0.003	0.00	0.000	0.02	0.003
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.03	0.004	0.03	0.004
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.02	-0.003	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-18

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	0.28	0.033	0.28	0.033
2	-0.05	-0.007	0.02	0.003	0.05	0.008
8	-0.01	-0.001	0.07	0.010	0.07	0.010
4	0.05	0.007	0.08	0.004	0.06	0.008
5	0.11	0.016	-0.10	-0.015	0.15	0.022
6	-0.01	-0.001	-0.08	-0.012	0.08	0.012
7	0.01	0.001	-0.05	-0.007	0.05	0.007
8	-0.03	-0.004	-0.11	-0.016	0.11	0.017
9	0.02	0.003	-0.09	-0.013	0.09	0.018
10	-0.03	-0.004	0.08	0.012	0.09	0.012
11	-0.02	-0.003	0.06	0.009	0.06	0.009
12	0.08	0.012	-0.01	-0.001	0.08	0.012
18	-0.06	-0.009	-0.02	-0.003	0.06	0.009
14	0.01	0.001	-0.03	-0.004	0.03	0.005
15	0.01	0.001	-0.02	-0.003	0.02	0.003
16	0.02	0.003	0.04	0.006	0.04	0.006
17	-0.03	-0.004	-0.05	-0.007	0.06	0.008
18	-0.04	-0.006	-0.03	-0.004	0.05	0.007
19	0.05	0.007	0.00	0.000	0.05	0.007
20	0.01	0.001	-0.05	-0.007	0.05	0.007
21	-0.03	-0.004	0.04	0.006	0.05	0.007
22	-0.01	-0.001	-0.03	-0.004	0.03	0.005
23	0.02	0.003	0.01	0.001	0.02	0.003
24	0.03	0.004	-0.04	-0.006	0.05	0.007
25	-0.03	-0.004	0.00	0.000	0.03	0.004
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.01	-0.001	-0.06	-0.009	0.06	0.009
29	-0.05	-0.007	-0.03	-0.004	0.06	0.008
30	0.00	0.000	-0.06	-0.009	0.06	0.009
31	-0.01	-0.001	0.03	0.004	0.03	0.005
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.01	0.001	0.02	0.003	0.02	0.003
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	0.02	0.003	0.02	0.003

B19

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.06	-0.009	0.25	0.036	0.26	0.037
2	-0.11	-0.016	0.01	0.001	0.11	0.016
8	0.00	0.000	0.07	0.010	0.07	0.010
4	0.03	0.004	0.00	0.000	0.03	0.004
5	-0.03	-0.004	-0.08	-0.012	0.09	0.012
6	0.05	0.007	0.02	0.003	0.05	0.008
7	0.02	0.003	0.00	0.000	0.02	0.003
8	-0.02	-0.003	-0.04	-0.006	0.04	0.006
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	-0.06	-0.009	0.02	0.003	0.06	0.009
11	0.00	0.000	0.05	0.007	0.05	0.007
12	-0.06	-0.009	-0.06	-0.009	0.08	0.012
18	-0.04	-0.006	0.08	0.012	0.09	0.013
14	0.03	0.004	0.11	0.016	0.11	0.017
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.06	-0.009	-0.03	-0.004	0.07	0.010
17	-0.03	-0.004	-0.05	-0.007	0.06	0.008
18	-0.07	-0.010	0.05	0.007	0.09	0.012
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	0.01	0.001	-0.03	-0.004	0.03	0.005
22	-0.02	-0.003	0.05	0.007	0.05	0.008
28	0.03	0.004	0.06	0.009	0.07	0.010
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	0.02	0.003	-0.02	-0.003	0.03	0.004
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	0.07	0.010	0.00	0.000	0.07	0.010
28	0.01	0.001	-0.03	-0.004	0.03	0.005
29	0.00	0.000	-0.03	-0.004	0.03	0.004
80	0.04	0.006	0.00	0.000	0.04	0.006
81	0.01	0.001	-0.01	-0.001	0.01	0.002
82	0.01	0.001	0.00	0.000	0.01	0.001
88	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	-0.03	-0.004	0.03	0.004
85	-0.01	-0.001	0.01	0.001	0.01	0.002

B-20

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.080 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 88.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.02	0.003	0.08	0.012	0.08	0.012
2	-0.01	-0.001	-0.04	-0.006	0.04	0.006
3	0.02	0.003	-0.02	-0.003	0.03	0.004
4	-0.02	-0.003	0.00	0.000	0.02	0.003
5	-0.03	-0.004	-0.04	-0.006	0.05	0.007
6	0.02	0.003	0.04	0.006	0.04	0.006
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.02	-0.003	-0.01	-0.001	0.02	0.003
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.03	-0.004	0.02	0.003	0.04	0.005
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.01	0.001	-0.09	-0.013	0.09	0.013
14	0.02	0.003	0.02	0.003	0.03	0.004
15	0.04	0.006	-0.04	-0.006	0.06	0.008
16	0.05	0.007	-0.01	-0.001	0.05	0.007
17	0.09	0.013	0.06	0.009	0.11	0.016
18	0.02	0.003	-0.08	-0.012	0.08	0.012
19	0.02	0.003	0.03	0.004	0.04	0.005
20	0.04	0.006	0.00	0.000	0.04	0.006
21	0.00	0.000	-0.04	-0.006	0.04	0.006
22	-0.01	-0.001	-0.06	-0.009	0.06	0.009
23	-0.02	-0.003	0.03	0.004	0.04	0.005
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	-0.03	-0.004	0.03	0.004
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	0.03	0.004	0.03	0.004	0.04	0.006
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.01	0.001	0.01	0.001	0.01	0.002
30	-0.01	-0.001	0.02	0.003	0.02	0.003
31	-0.02	-0.003	-0.03	-0.004	0.04	0.005
32	0.02	0.003	-0.01	-0.001	0.02	0.003
33	0.02	0.003	0.01	0.001	0.02	0.003
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.01	0.001	0.01	0.001

B21

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.10	0.015	0.15	0.022	0.18	0.026
2	0.00	0.000	0.14	0.020	0.14	0.020
3	-0.08	-0.012	0.00	0.000	0.08	0.012
4	-0.08	-0.012	-0.06	-0.009	0.10	0.015
5	0.01	0.001	-0.05	-0.007	0.05	0.007
6	0.09	0.013	0.03	0.004	0.09	0.014
7	-0.02	-0.003	0.05	0.007	0.05	0.008
8	-0.05	-0.007	0.02	0.003	0.05	0.008
9	-0.05	-0.007	0.00	0.000	0.05	0.007
10	0.05	0.007	-0.01	-0.001	0.05	0.007
11	0.03	0.004	0.00	0.000	0.03	0.004
12	-0.06	-0.009	0.01	0.001	0.06	0.009
13	0.01	0.001	0.02	0.003	0.02	0.003
14	0.02	0.003	-0.01	-0.001	0.02	0.003
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.09	-0.013	0.01	0.001	0.09	0.013
18	0.02	0.003	-0.01	-0.001	0.02	0.003
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.04	-0.006	-0.04	-0.006	0.06	0.008
22	0.04	0.006	-0.01	-0.001	0.04	0.006
23	0.07	0.010	-0.02	-0.003	0.07	0.011
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.04	-0.006	0.00	0.000	0.04	0.006
26	0.01	0.001	-0.05	-0.007	0.05	0.007
27	0.01	0.001	-0.04	-0.006	0.04	0.006
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.03	-0.004	0.00	0.000	0.03	0.004
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

Bo22

3 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.080 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.25	-0.036	0.27	0.039	0.37	0.053
2	0.00	0.000	-0.01	-0.001	0.01	0.001
3	0.02	0.003	0.01	0.001	0.02	0.003
4	-0.01	-0.001	0.04	0.006	0.04	0.006
5	0.03	0.004	0.08	0.012	0.09	0.012
6	0.02	0.003	0.05	0.007	0.05	0.008
7	0.03	0.004	0.02	0.003	0.04	0.005
8	-0.02	-0.003	0.05	0.007	0.05	0.008
9	-0.05	-0.007	0.00	0.000	0.05	0.007
10	0.07	0.010	-0.03	-0.004	0.08	0.011
11	-0.03	-0.004	0.09	0.013	0.09	0.014
12	-0.09	-0.013	-0.04	-0.006	0.10	0.014
13	0.04	0.006	0.00	0.000	0.04	0.006
14	-0.07	-0.010	0.06	0.009	0.09	0.013
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	0.05	0.007	0.05	0.007
17	0.04	0.006	0.00	0.000	0.04	0.006
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.03	0.004	0.00	0.000	0.03	0.004
21	0.02	0.003	0.02	0.003	0.03	0.004
22	0.04	0.006	-0.03	-0.004	0.05	0.007
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.02	0.003	0.02	0.003
25	-0.03	-0.004	0.02	0.003	0.04	0.005
26	0.03	0.004	0.00	0.000	0.03	0.004
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.00	0.000	0.03	0.004	0.03	0.004
30	0.00	0.000	0.02	0.003	0.02	0.003
31	-0.02	-0.003	0.01	0.001	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	-0.02	-0.003	-0.02	-0.003	0.03	0.004
34	0.02	0.003	-0.01	-0.001	0.02	0.003
35	0.00	0.000	-0.01	-0.001	0.01	0.001

B-23

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.07	0.010	0.07	0.010
2	-0.07	-0.010	-0.03	-0.004	0.08	0.011
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.00	0.000	0.02	0.003	0.02	0.003
5	0.00	0.000	-0.02	-0.003	0.02	0.003
6	0.02	0.003	0.03	0.004	0.04	0.005
7	-0.02	-0.003	0.02	0.003	0.03	0.004
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.03	-0.004	-0.01	-0.001	0.03	0.005
10	-0.01	-0.001	0.02	0.003	0.02	0.003
11	-0.02	-0.003	0.01	0.001	0.02	0.003
12	0.02	0.003	0.00	0.000	0.02	0.003
13	-0.01	-0.001	0.02	0.003	0.02	0.003
14	0.02	0.003	-0.03	-0.004	0.04	0.005
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.03	-0.004	0.00	0.000	0.03	0.004
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.04	-0.006	-0.01	-0.001	0.04	0.006
20	0.02	0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	-0.01	-0.001	-0.02	-0.003	0.02	0.003
23	-0.03	-0.004	0.00	0.000	0.03	0.004
24	0.03	0.004	0.00	0.000	0.03	0.004
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.03	-0.004	0.00	0.000	0.03	0.004
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

B-24

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.030 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.02	0.003	0.07	0.011
2	0.05	0.007	0.00	0.000	0.05	0.007
8	-0.04	-0.006	-0.01	-0.001	0.04	0.006
4	-0.05	-0.007	-0.03	-0.004	0.06	0.008
5	0.01	0.001	0.03	0.004	0.03	0.005
6	0.04	0.006	0.01	0.001	0.04	0.006
7	0.00	0.000	-0.06	-0.009	0.06	0.009
8	-0.04	-0.006	0.00	0.000	0.04	0.006
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.08	0.012	-0.04	-0.006	0.09	0.013
11	0.01	0.001	0.00	0.000	0.01	0.001
12	-0.01	-0.001	0.01	0.001	0.01	0.002
13	0.03	0.004	-0.03	-0.004	0.04	0.006
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	-0.08	-0.012	0.00	0.000	0.08	0.012
17	0.05	0.007	0.03	0.004	0.06	0.008
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	-0.03	-0.004	0.03	0.004
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.02	0.003	-0.01	-0.001	0.02	0.003
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	-0.01	-0.001	-0.03	-0.004	0.03	0.005
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.03	0.004	0.00	0.000	0.03	0.004
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.02	-0.003	0.02	0.003
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B-25

8 DEGREE ANGULAR INFLOW

RUN NUMBER 4

POINT NUMBER: 4
 MACH NUMBER: 0.080 +/- 0.013
 ADVANCE RATIO: 0.186 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.1 +/- 0.5
 ROTOR SPEED (RPM): 1207 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.01	-0.001	0.04	0.006	0.04	0.006
2	-0.03	-0.004	0.04	0.006	0.05	0.007
8	0.00	0.000	-0.01	-0.001	0.01	0.001
4	-0.02	-0.003	0.01	0.001	0.02	0.003
5	-0.01	-0.001	-0.04	-0.006	0.04	0.006
6	0.00	0.000	0.03	0.004	0.03	0.004
7	0.05	0.007	0.01	0.001	0.05	0.007
8	-0.04	-0.006	-0.02	-0.003	0.04	0.006
9	0.00	0.000	0.01	0.001	0.01	0.001
10	-0.01	-0.001	-0.02	-0.003	0.02	0.003
11	0.04	0.006	-0.03	-0.004	0.05	0.007
12	-0.02	-0.003	-0.04	-0.006	0.04	0.006
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.01	-0.001	-0.07	-0.010	0.07	0.010
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.02	0.003	0.00	0.000	0.02	0.003
17	0.03	0.004	0.00	0.000	0.03	0.004
18	-0.02	-0.003	-0.02	-0.003	0.03	0.004
19	0.00	0.000	0.05	0.007	0.05	0.007
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.03	0.004	-0.01	-0.001	0.03	0.004
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	0.00	0.000	0.02	0.003
25	-0.03	-0.004	0.00	0.000	0.03	0.004
26	0.04	0.006	0.03	0.004	0.05	0.007
27	0.07	0.010	-0.03	-0.004	0.08	0.011
28	0.00	0.000	-0.04	-0.006	0.04	0.006
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	-0.02	-0.003	-0.01	-0.001	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.02	-0.003	0.02	0.003

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.84	-0.049	-0.57	-0.083	0.66	0.096
2	0.08	0.004	0.04	0.006	0.05	0.007
8	-0.02	-0.003	0.01	0.001	0.02	0.003
4	-0.02	-0.003	0.04	0.006	0.04	0.006
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.04	0.006	0.00	0.000	0.04	0.006
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	0.02	0.003	0.01	0.001	0.02	0.003
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	-0.02	-0.003	-0.01	-0.001	0.02	0.003
12	0.01	0.001	0.01	0.001	0.01	0.002
18	0.02	0.003	-0.01	-0.001	0.02	0.003
14	-0.01	-0.001	-0.02	-0.003	0.02	0.003
15	-0.02	-0.003	-0.02	-0.003	0.03	0.004
16	-0.02	-0.003	-0.01	-0.001	0.02	0.003
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.01	0.001	0.01	0.002
20	0.01	0.001	-0.04	-0.006	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
80	-0.01	-0.001	0.01	0.001	0.01	0.002
81	0.00	0.000	0.01	0.001	0.01	0.001
82	0.01	0.001	0.00	0.000	0.01	0.001
88	0.00	0.000	0.01	0.001	0.01	0.001
84	0.01	0.001	0.00	0.000	0.01	0.001
85	-0.01	-0.001	0.01	0.001	0.01	0.002

B-27

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	-0.29	-0.042	0.29	0.042
2	0.01	0.001	-0.08	-0.004	0.08	0.005
3	0.00	0.000	0.08	0.004	0.03	0.004
4	0.00	0.000	0.02	0.003	0.02	0.003
5	0.00	0.000	0.00	0.000	0.00	0.000
6	-0.01	-0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	0.01	0.001	0.01	0.001
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.02	0.003	-0.02	-0.003	0.03	0.004
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-28

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.17	-0.025	-0.08	-0.012	0.19	0.027
2	0.02	0.003	0.00	0.000	0.02	0.003
3	0.01	0.001	-0.01	-0.001	0.01	0.002
4	0.01	0.001	0.00	0.000	0.01	0.001
5	0.01	0.001	-0.02	-0.003	0.02	0.003
6	-0.03	-0.004	0.00	0.000	0.03	0.004
7	0.05	0.007	0.04	0.006	0.06	0.009
8	-0.01	-0.001	-0.03	-0.004	0.03	0.005
9	0.01	0.001	0.03	0.004	0.03	0.005
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	-0.01	-0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.01	-0.001	-0.01	-0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.01	0.001	0.01	0.002
18	0.00	0.000	0.03	0.004	0.03	0.004
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.05	0.007	0.01	0.001	0.05	0.007
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.01	0.001	0.02	0.003	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.00	0.000	0.01	0.001
33	-0.01	-0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.01	-0.001	0.00	0.000	0.01	0.001

B-27

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.28	-0.041	-0.46	-0.067	0.54	0.078
2	0.02	0.003	0.00	0.000	0.02	0.003
3	-0.01	-0.001	-0.01	-0.001	0.01	0.002
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.03	0.004	-0.01	-0.001	0.03	0.005
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	0.02	0.003	0.01	0.001	0.02	0.003
19	0.02	0.003	-0.01	-0.001	0.02	0.003
20	0.02	0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.01	0.001	0.01	0.001	0.01	0.002
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-30

3 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.55	0.080	0.08	0.012	0.56	0.081
2	0.04	0.006	0.18	0.019	0.14	0.020
3	-0.11	-0.016	0.22	0.032	0.25	0.036
4	-0.36	-0.052	0.08	0.012	0.37	0.053
5	0.14	0.020	0.21	0.030	0.25	0.037
6	0.02	0.003	-0.10	-0.015	0.10	0.015
7	-0.19	-0.028	-0.04	-0.006	0.19	0.028
8	-0.05	-0.007	0.05	0.007	0.07	0.010
9	0.05	0.007	0.14	0.020	0.15	0.022
10	-0.03	-0.004	0.02	0.003	0.04	0.005
11	0.06	0.009	0.00	0.000	0.06	0.009
12	0.05	0.007	-0.18	-0.019	0.14	0.020
13	-0.07	-0.010	0.04	0.006	0.08	0.012
14	0.03	0.004	-0.04	-0.006	0.05	0.007
15	-0.13	-0.019	-0.10	-0.015	0.16	0.024
16	0.03	0.004	0.07	0.010	0.08	0.011
17	0.05	0.007	0.05	0.007	0.07	0.010
18	0.01	0.001	0.15	0.022	0.15	0.022
19	-0.04	-0.006	-0.12	-0.017	0.13	0.018
20	-0.07	-0.010	0.05	0.007	0.09	0.012
21	0.01	0.001	-0.07	-0.010	0.07	0.010
22	-0.05	-0.007	0.01	0.001	0.05	0.007
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.07	0.010	0.03	0.004	0.08	0.011
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.09	-0.013	0.10	0.015	0.13	0.020
27	0.02	0.003	-0.08	-0.012	0.08	0.012
28	0.01	0.001	0.04	0.006	0.04	0.006
29	0.11	0.016	0.00	0.000	0.11	0.016
30	-0.02	-0.003	-0.01	-0.001	0.02	0.003
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	-0.05	-0.007	-0.01	-0.001	0.05	0.007
33	-0.03	-0.004	-0.04	-0.006	0.05	0.007
34	0.00	0.000	0.03	0.004	0.03	0.004
35	0.00	0.000	-0.02	-0.003	0.02	0.003

B-31

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.24	-0.035	-0.31	-0.045	0.39	0.057
2	0.04	0.006	-0.02	-0.003	0.04	0.006
3	0.06	0.009	0.08	0.012	0.10	0.015
4	-0.29	-0.042	0.15	0.022	0.33	0.047
5	-0.11	-0.016	0.06	0.009	0.13	0.018
6	0.07	0.010	-0.13	-0.019	0.15	0.021
7	0.02	0.003	-0.09	-0.013	0.09	0.013
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.01	0.001	0.03	0.004	0.03	0.005
11	-0.02	-0.003	0.04	0.006	0.04	0.006
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	-0.01	-0.001	-0.02	-0.003	0.02	0.003
14	0.03	0.004	-0.03	-0.004	0.04	0.006
15	0.04	0.006	0.02	0.003	0.04	0.006
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.03	0.004	0.04	0.006	0.05	0.007
19	-0.04	-0.006	-0.03	-0.004	0.05	0.007
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	0.03	0.004	-0.03	-0.004	0.04	0.006
22	0.00	0.000	0.03	0.004	0.03	0.004
23	0.02	0.003	0.00	0.000	0.02	0.003
24	0.00	0.000	0.03	0.004	0.03	0.004
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.02	-0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.19	-0.028	-0.32	-0.046	0.37	0.054
2	-0.02	-0.003	0.01	0.001	0.02	0.003
3	0.06	0.009	-0.01	-0.001	0.06	0.009
4	-0.04	-0.006	0.00	0.000	0.04	0.006
5	-0.01	-0.001	0.00	0.000	0.01	0.001
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	-0.03	-0.004	0.03	0.004
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	-0.03	-0.004	0.03	0.005
10	0.02	0.003	-0.03	-0.012	0.03	0.012
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.04	0.006	0.00	0.000	0.04	0.006
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	0.02	0.003	0.02	0.003
15	-0.01	-0.001	0.03	0.004	0.03	0.005
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	-0.03	-0.004	0.03	0.005
19	-0.06	-0.009	0.00	0.000	0.06	0.009
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.03	0.004	-0.01	-0.001	0.03	0.005
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-33

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 62.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.11	-0.016	-0.26	-0.038	0.28	0.041
2	0.00	0.000	0.00	0.000	0.00	0.000
3	-0.01	-0.001	-0.03	-0.004	0.03	0.005
4	0.01	0.001	0.03	0.004	0.03	0.005
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.01	0.001	0.01	0.001	0.01	0.002
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.04	0.006	0.02	0.003	0.04	0.006
10	0.05	0.007	-0.05	-0.007	0.07	0.010
11	-0.01	-0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.03	0.004	0.00	0.000	0.03	0.004
15	0.00	0.000	0.02	0.003	0.02	0.003
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.02	0.003	0.05	0.007	0.05	0.008
20	0.04	0.006	0.01	0.001	0.04	0.006
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B-34

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.06	-0.009	-0.16	-0.023	0.17	0.025
2	0.01	0.001	0.01	0.001	0.01	0.002
8	0.03	0.004	0.01	0.001	0.03	0.005
4	0.04	0.006	0.04	0.006	0.06	0.008
5	-0.02	-0.003	0.03	0.004	0.04	0.005
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.01	0.001	-0.03	-0.004	0.03	0.005
8	-0.05	-0.007	-0.02	-0.003	0.05	0.008
9	-0.01	-0.001	0.03	0.004	0.03	0.005
10	0.00	0.000	-0.04	-0.006	0.04	0.006
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.03	0.004	0.01	0.001	0.03	0.005
18	0.02	0.003	0.00	0.000	0.02	0.003
14	0.03	0.004	0.02	0.003	0.04	0.005
15	0.01	0.001	-0.02	-0.003	0.02	0.003
16	0.04	0.006	0.00	0.000	0.04	0.006
17	0.01	0.001	-0.04	-0.006	0.04	0.006
18	-0.01	-0.001	0.02	0.003	0.02	0.003
19	-0.01	-0.001	0.02	0.003	0.02	0.003
20	0.01	0.001	0.02	0.003	0.02	0.003
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
28	0.02	0.003	0.03	0.004	0.04	0.005
24	0.03	0.004	0.01	0.001	0.03	0.005
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	-0.01	-0.001	-0.02	-0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	-0.02	-0.003	0.02	0.003
29	-0.01	-0.001	0.01	0.001	0.01	0.002
80	0.01	0.001	0.01	0.001	0.01	0.002
81	-0.01	-0.001	-0.01	-0.001	0.01	0.002
82	0.02	0.003	0.03	0.004	0.04	0.005
88	0.00	0.000	0.00	0.000	0.00	0.000
84	-0.01	-0.001	0.00	0.000	0.01	0.001
85	0.00	0.000	0.00	0.000	0.00	0.000

B-35

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.10	0.015	0.67	0.097	0.68	0.098
2	-0.07	-0.010	-0.10	-0.015	0.12	0.018
3	0.00	0.000	-0.18	-0.026	0.18	0.026
4	-0.16	-0.023	0.09	0.018	0.18	0.027
5	-0.01	-0.001	0.01	0.001	0.01	0.002
6	-0.18	-0.026	0.05	0.007	0.19	0.027
7	0.08	0.012	-0.09	-0.018	0.12	0.017
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	-0.04	-0.006	0.04	0.006
10	0.00	0.000	-0.08	-0.012	0.08	0.012
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	-0.02	-0.003	-0.01	-0.001	0.02	0.003
14	-0.02	-0.003	-0.01	-0.001	0.02	0.003
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.07	0.010	0.01	0.001	0.07	0.010
18	-0.01	-0.001	0.03	0.004	0.03	0.005
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.02	-0.003	0.05	0.007	0.05	0.008
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.02	0.003	-0.03	-0.004	0.04	0.005
24	-0.04	-0.006	-0.01	-0.001	0.04	0.006
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.05	0.007	-0.01	-0.001	0.05	0.007
29	-0.05	-0.007	0.29	0.042	0.29	0.043
30	0.03	0.004	0.04	0.006	0.05	0.007
31	-0.01	-0.001	0.04	0.006	0.04	0.006
32	0.04	0.006	0.00	0.000	0.04	0.006
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	0.04	0.006	0.04	0.006

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.21	0.030	0.75	0.109	0.78	0.113
2	0.03	0.004	-0.06	-0.009	0.07	0.010
8	-0.03	-0.004	-0.01	-0.001	0.03	0.005
4	0.05	0.007	0.00	0.000	0.05	0.007
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.00	0.000	0.02	0.003	0.02	0.003
8	-0.02	-0.003	-0.01	-0.001	0.02	0.003
9	0.02	0.003	-0.01	-0.001	0.02	0.003
10	0.00	0.000	-0.03	-0.004	0.03	0.004
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.03	-0.004	0.00	0.000	0.03	0.004
13	-0.03	-0.004	0.00	0.000	0.03	0.004
14	0.01	0.001	-0.02	-0.003	0.02	0.003
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.03	-0.004	-0.01	-0.001	0.03	0.005
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.01	0.001	0.03	0.004	0.03	0.005
23	-0.02	-0.003	0.00	0.000	0.02	0.003
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.17	0.025	0.15	0.022	0.23	0.033
2	0.01	0.001	-0.02	-0.003	0.02	0.003
3	0.00	0.000	-0.06	-0.009	0.06	0.009
4	0.07	0.010	0.13	0.019	0.15	0.021
5	0.00	0.000	0.01	0.001	0.01	0.001
6	-0.02	-0.003	0.01	0.001	0.02	0.003
7	-0.01	-0.001	0.03	0.004	0.03	0.005
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	-0.02	-0.003	0.03	0.004	0.04	0.005
12	-0.01	-0.001	-0.02	-0.003	0.02	0.003
13	0.02	0.003	0.00	0.000	0.02	0.003
14	-0.02	-0.003	0.01	0.001	0.02	0.003
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.02	0.003	0.00	0.000	0.02	0.003
18	-0.01	-0.001	0.02	0.003	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	-0.01	-0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.42	0.061	0.40	0.058	0.58	0.084
2	0.03	0.004	0.12	0.017	0.12	0.018
8	-0.14	-0.020	0.00	0.000	0.14	0.020
4	-0.07	-0.010	-0.08	-0.012	0.11	0.015
5	0.06	0.009	-0.13	-0.019	0.14	0.021
6	0.08	0.012	0.07	0.010	0.11	0.015
7	-0.04	-0.006	0.07	0.010	0.08	0.012
8	-0.05	-0.007	0.00	0.000	0.05	0.007
9	-0.03	-0.004	-0.02	-0.003	0.04	0.005
10	0.01	0.001	-0.06	-0.009	0.06	0.009
11	0.04	0.006	0.03	0.004	0.05	0.007
12	-0.02	-0.003	0.02	0.003	0.03	0.004
18	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.02	0.003	0.02	0.003
19	0.02	0.003	0.00	0.000	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.02	0.003	0.01	0.001	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.03	0.004	0.03	0.004
80	0.01	0.001	0.00	0.000	0.01	0.001
81	0.00	0.000	0.00	0.000	0.00	0.000
82	-0.01	-0.001	0.02	0.003	0.02	0.003
88	0.01	0.001	0.00	0.000	0.01	0.001
84	0.00	0.000	0.00	0.000	0.00	0.000
85	-0.02	-0.003	0.00	0.000	0.02	0.003

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.18	0.026	0.57	0.088	0.60	0.087
2	-0.19	-0.028	-0.05	-0.007	0.20	0.028
3	0.16	0.023	-0.08	-0.012	0.18	0.026
4	-0.04	-0.006	0.02	0.008	0.04	0.006
5	0.12	0.017	-0.08	-0.012	0.14	0.021
6	-0.03	-0.004	0.22	0.032	0.22	0.032
7	-0.06	-0.009	-0.14	-0.020	0.15	0.022
8	0.12	0.017	-0.08	-0.004	0.12	0.018
9	-0.07	-0.010	0.02	0.003	0.07	0.011
10	0.10	0.015	-0.08	-0.004	0.10	0.015
11	-0.07	-0.010	0.05	0.007	0.09	0.012
12	0.02	0.003	-0.10	-0.015	0.10	0.015
13	0.06	0.009	0.06	0.009	0.08	0.012
14	-0.04	-0.006	0.00	0.000	0.04	0.006
15	0.01	0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.03	0.004	0.03	0.004
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

3-40

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.008
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.40	0.058	0.40	0.059
2	-0.05	-0.007	-0.10	-0.015	0.11	0.016
3	0.05	0.007	0.02	0.003	0.05	0.008
4	0.04	0.006	0.02	0.003	0.04	0.006
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	0.00	0.000	0.02	0.003	0.02	0.003
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	0.02	0.003	0.00	0.000	0.02	0.003
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	-0.02	-0.003	0.02	0.003
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	-0.02	-0.003	0.02	0.003
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	-0.03	-0.004	0.03	0.004
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.02	0.003	0.00	0.000	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-41

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.82	0.046	0.75	0.109	0.82	0.118
2	0.04	0.006	-0.09	-0.013	0.10	0.014
3	0.06	0.009	-0.01	-0.001	0.06	0.009
4	0.05	0.007	0.02	0.003	0.05	0.008
5	0.01	0.001	0.04	0.006	0.04	0.006
6	-0.06	-0.009	0.06	0.009	0.08	0.012
7	-0.06	-0.009	-0.03	-0.004	0.07	0.010
8	0.03	0.004	-0.07	-0.010	0.08	0.011
9	0.05	0.007	0.00	0.000	0.05	0.007
10	0.01	0.001	0.05	0.007	0.05	0.007
11	-0.03	-0.004	0.03	0.004	0.04	0.006
12	-0.03	-0.004	-0.02	-0.003	0.04	0.005
13	0.03	0.004	-0.02	-0.003	0.04	0.005
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-42

8 DEGREE ANGULAR INFLOW

RUN NUMBER 5

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.41	0.059	1.05	0.152	1.18	0.168
2	0.00	0.000	0.01	0.001	0.01	0.001
8	0.03	0.004	0.00	0.000	0.03	0.004
4	0.00	0.000	0.00	0.000	0.00	0.000
5	0.00	0.000	0.02	0.003	0.02	0.003
6	0.05	0.007	0.00	0.000	0.05	0.007
7	-0.02	-0.003	0.01	0.001	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	-0.03	-0.004	0.03	0.005
10	0.03	0.004	0.00	0.000	0.03	0.004
11	0.03	0.004	0.01	0.001	0.03	0.005
12	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.02	0.003	-0.01	-0.001	0.02	0.003
14	0.02	0.003	0.05	0.007	0.05	0.008
15	0.05	0.007	0.03	0.004	0.06	0.008
16	-0.01	-0.001	-0.02	-0.003	0.02	0.003
17	-0.01	-0.001	-0.04	-0.006	0.04	0.006
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.03	-0.004	0.00	0.000	0.03	0.004
20	-0.03	-0.004	0.05	0.007	0.06	0.008
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.03	-0.004	0.00	0.000	0.03	0.004
26	-0.10	-0.015	0.01	0.001	0.10	0.015
27	0.01	0.001	-0.05	-0.007	0.05	0.007
28	0.11	0.016	-0.06	-0.009	0.13	0.018
29	0.13	0.019	0.18	0.026	0.22	0.032
80	-0.05	-0.007	-0.07	-0.010	0.09	0.012
81	-0.01	-0.001	0.00	0.000	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
83	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	0.00	0.000	0.00	0.000
85	-0.01	-0.001	0.00	0.000	0.01	0.001

P-13

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.48	-0.070	-0.85	-0.123	0.98	0.142
2	0.00	0.000	0.11	0.016	0.11	0.016
3	-0.01	-0.001	0.02	0.003	0.02	0.003
4	0.00	0.000	0.01	0.001	0.01	0.001
5	-0.01	-0.001	0.03	0.004	0.03	0.005
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	-0.02	-0.003	0.01	0.001	0.02	0.003
8	0.02	0.003	0.01	0.001	0.02	0.003
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	-0.03	-0.004	0.00	0.000	0.03	0.004
14	-0.01	-0.001	-0.03	-0.004	0.03	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	-0.04	-0.006	0.04	0.006
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.03	0.004	0.00	0.000	0.03	0.004
20	-0.03	-0.004	0.00	0.000	0.03	0.004
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.02	0.003	0.02	0.003
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.01	0.001	0.01	0.001	0.01	0.002

B-44

3 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.99	-0.144	-0.22	-0.032	1.01	0.147
2	0.29	0.042	0.13	0.019	0.32	0.046
3	0.14	0.020	0.06	0.009	0.15	0.022
4	0.00	0.000	0.11	0.016	0.11	0.016
5	-0.11	-0.016	0.02	0.003	0.11	0.016
6	-0.08	-0.012	-0.10	-0.015	0.13	0.019
7	0.09	0.013	-0.10	-0.015	0.13	0.020
8	0.10	0.015	0.05	0.007	0.11	0.016
9	-0.01	-0.001	0.13	0.019	0.13	0.019
10	-0.11	-0.016	0.03	0.004	0.11	0.017
11	-0.05	-0.007	-0.07	-0.010	0.09	0.012
12	0.05	0.007	-0.09	-0.013	0.10	0.015
13	0.11	0.016	0.05	0.007	0.12	0.018
14	0.01	0.001	0.11	0.016	0.11	0.016
15	-0.08	-0.012	0.01	0.001	0.08	0.012
16	-0.05	-0.007	-0.09	-0.013	0.10	0.015
17	0.07	0.010	-0.09	-0.013	0.11	0.017
18	0.10	0.015	0.03	0.004	0.10	0.015
19	-0.01	-0.001	0.09	0.013	0.09	0.013
20	-0.09	-0.013	0.04	0.006	0.10	0.014
21	-0.03	-0.004	-0.10	-0.015	0.10	0.015
22	0.06	0.009	-0.11	-0.016	0.13	0.018
23	0.07	0.010	0.01	0.001	0.07	0.010
24	0.00	0.000	0.11	0.016	0.11	0.016
25	-0.13	-0.019	0.01	0.001	0.13	0.019
26	-0.04	-0.006	-0.10	-0.015	0.11	0.016
27	0.08	0.012	-0.08	-0.012	0.11	0.016
28	0.08	0.012	0.05	0.007	0.09	0.014
29	0.04	0.006	0.06	0.009	0.07	0.010
30	-0.10	-0.015	0.00	0.000	0.10	0.015
31	-0.01	-0.001	-0.09	-0.013	0.09	0.013
32	0.09	0.013	-0.03	-0.004	0.09	0.014
33	0.04	0.006	0.08	0.012	0.09	0.013
34	-0.06	-0.009	0.06	0.009	0.08	0.012
35	-0.05	-0.007	-0.03	-0.004	0.06	0.008

B-45

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
MACH NUMBER: 0.200 +/- 0.003
ADVANCE RATIO: 0.879 +/- 0.015
POWER COEFFICIENT: 0.149 +/- 0.001
BLADE ANGLE (DEG): 27.2 +/- 0.5
ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	-0.32	-0.046	0.33	0.048
2	0.11	0.016	0.02	0.003	0.11	0.016
3	0.02	0.003	0.12	0.017	0.12	0.018
4	-0.01	-0.001	0.04	0.006	0.04	0.006
5	0.02	0.003	0.04	0.006	0.04	0.006
6	-0.01	-0.001	-0.01	-0.001	0.01	0.002
7	0.01	0.001	0.03	0.004	0.03	0.005
8	0.02	0.003	0.00	0.000	0.02	0.003
9	0.01	0.001	0.05	0.007	0.05	0.007
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.03	0.004	0.03	0.004
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.04	-0.006	-0.01	-0.001	0.04	0.006
19	-0.01	-0.001	0.06	0.009	0.06	0.009
20	0.01	0.001	-0.01	-0.001	0.01	0.002
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.01	0.001	0.02	0.003	0.02	0.003
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-410

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	-0.04	-0.006	0.04	0.006
2	-0.02	-0.003	0.04	0.006	0.04	0.006
3	0.02	0.003	0.01	0.001	0.02	0.003
4	-0.02	-0.003	-0.01	-0.001	0.02	0.003
5	0.01	0.001	0.01	0.001	0.01	0.002
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	0.00	0.000	0.03	0.004	0.03	0.004
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.02	-0.003	-0.02	-0.003	0.03	0.004
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.02	0.003	0.01	0.001	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.02	0.003	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B47

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.71	-0.103	-1.08	-0.157	1.29	0.187
2	-0.05	-0.007	0.07	0.010	0.09	0.012
3	-0.10	-0.015	0.00	0.000	0.10	0.015
4	0.02	0.003	0.01	0.001	0.02	0.003
5	0.05	0.007	-0.02	-0.003	0.05	0.008
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.02	-0.003	-0.06	-0.009	0.06	0.009
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.02	-0.003	0.01	0.001	0.02	0.003
19	0.01	0.001	0.02	0.003	0.02	0.003
20	-0.02	-0.003	0.01	0.001	0.02	0.003
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	-0.02	-0.003	0.01	0.001	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.02	0.003	0.00	0.000	0.02	0.003
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	0.00	0.000	0.00	0.000

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POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.45	-0.065	-0.71	-0.103	0.84	0.122
2	0.00	0.000	0.05	0.007	0.05	0.007
3	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.01	-0.001	0.03	0.004	0.03	0.005
5	0.03	0.004	0.02	0.003	0.04	0.005
6	-0.03	-0.004	-0.01	-0.001	0.03	0.005
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.01	0.001	0.01	0.001	0.01	0.002
9	0.00	0.000	0.02	0.003	0.02	0.003
10	-0.01	-0.001	0.02	0.003	0.02	0.003
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.03	0.004	-0.04	-0.006	0.05	0.007
13	0.03	0.004	0.01	0.001	0.03	0.005
14	0.01	0.001	0.02	0.003	0.02	0.003
15	-0.05	-0.007	-0.03	-0.004	0.06	0.008
16	-0.01	-0.001	-0.03	-0.004	0.03	0.005
17	0.02	0.003	-0.02	-0.003	0.03	0.004
18	0.01	0.001	0.01	0.001	0.01	0.002
19	-0.05	-0.007	0.00	0.000	0.05	0.007
20	-0.01	-0.001	0.02	0.003	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	-0.04	-0.006	0.04	0.006
23	0.02	0.003	0.02	0.003	0.03	0.004
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	-0.03	-0.004	-0.01	-0.001	0.03	0.005
27	0.02	0.003	-0.02	-0.003	0.03	0.004
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.01	0.001	-0.01	-0.001	0.01	0.002
30	-0.02	-0.003	0.00	0.000	0.02	0.003
31	-0.02	-0.003	-0.02	-0.003	0.03	0.004
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.03	0.004	0.03	0.004	0.04	0.006
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.53	-0.077	-0.56	-0.081	0.77	0.112
2	0.11	0.016	0.01	0.001	0.11	0.016
3	0.14	0.020	0.07	0.010	0.16	0.023
4	0.02	0.003	0.11	0.016	0.11	0.016
5	-0.11	-0.016	0.03	0.004	0.11	0.017
6	-0.06	-0.009	-0.02	-0.003	0.06	0.009
7	0.03	0.004	-0.16	-0.023	0.16	0.024
8	0.12	0.017	-0.03	-0.004	0.12	0.018
9	0.03	0.004	0.11	0.016	0.11	0.017
10	0.00	0.000	0.05	0.007	0.05	0.007
11	-0.10	-0.015	-0.01	-0.001	0.10	0.015
12	-0.02	-0.003	-0.09	-0.013	0.09	0.013
13	0.13	0.019	-0.09	-0.013	0.16	0.023
14	0.09	0.013	-0.01	-0.001	0.09	0.013
15	0.02	0.003	0.13	0.019	0.13	0.019
16	-0.08	-0.012	0.04	0.006	0.09	0.013
17	-0.09	-0.013	-0.15	-0.022	0.17	0.025
18	0.04	0.006	-0.05	-0.007	0.06	0.009
19	0.04	0.006	0.08	0.012	0.09	0.013
20	0.00	0.000	0.13	0.019	0.13	0.019
21	-0.08	-0.012	0.08	0.012	0.11	0.016
22	-0.08	-0.012	-0.07	-0.010	0.11	0.015
23	0.01	0.001	-0.08	-0.012	0.08	0.012
24	0.11	0.016	-0.03	-0.004	0.11	0.017
25	0.04	0.006	0.08	0.012	0.09	0.013
26	-0.06	-0.009	0.04	0.006	0.07	0.010
27	-0.11	-0.016	-0.04	-0.006	0.12	0.017
28	0.02	0.003	-0.12	-0.017	0.12	0.018
29	0.10	0.015	-0.02	-0.003	0.10	0.015
30	0.05	0.007	0.10	0.015	0.11	0.016
31	-0.10	-0.015	0.09	0.013	0.13	0.020
32	-0.09	-0.013	-0.05	-0.007	0.10	0.015
33	0.01	0.001	-0.10	-0.015	0.10	0.015
34	0.06	0.009	0.00	0.000	0.06	0.009
35	0.02	0.003	0.06	0.009	0.06	0.009

7.90

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.58	-0.084	-0.40	-0.058	0.70	0.102
2	0.21	0.030	0.06	0.009	0.22	0.032
8	-0.01	-0.001	0.04	0.006	0.04	0.006
4	-0.01	-0.001	0.07	0.010	0.07	0.010
5	-0.03	-0.004	0.01	0.001	0.03	0.005
6	-0.04	-0.006	-0.01	-0.001	0.04	0.006
7	-0.02	-0.003	-0.07	-0.010	0.07	0.011
8	0.06	0.009	-0.01	-0.001	0.06	0.009
9	-0.02	-0.003	0.05	0.007	0.05	0.008
10	0.00	0.000	-0.03	-0.004	0.03	0.004
11	-0.06	-0.009	-0.02	-0.003	0.06	0.009
12	-0.02	-0.003	-0.06	-0.009	0.06	0.009
13	-0.01	-0.001	-0.02	-0.003	0.02	0.003
14	-0.02	-0.003	-0.02	-0.003	0.03	0.004
15	-0.01	-0.001	0.05	0.007	0.05	0.007
16	-0.04	-0.006	0.02	0.003	0.04	0.006
17	-0.04	-0.006	-0.04	-0.006	0.06	0.008
18	0.04	0.006	-0.06	-0.009	0.07	0.010
19	0.02	0.003	0.03	0.004	0.04	0.005
20	0.02	0.003	0.04	0.006	0.04	0.006
21	-0.05	-0.007	0.02	0.003	0.05	0.008
22	-0.06	-0.009	-0.04	-0.006	0.07	0.010
23	0.02	0.003	-0.06	-0.009	0.06	0.009
24	0.00	0.000	-0.04	-0.006	0.04	0.006
25	0.03	0.004	0.04	0.006	0.05	0.007
26	-0.02	-0.003	0.05	0.007	0.05	0.008
27	-0.05	-0.007	-0.03	-0.004	0.06	0.008
28	0.00	0.000	-0.03	-0.004	0.03	0.004
29	0.05	0.007	-0.03	-0.004	0.06	0.008
30	0.04	0.006	0.07	0.010	0.08	0.012
31	-0.01	-0.001	0.04	0.006	0.04	0.006
32	-0.03	-0.004	-0.03	-0.004	0.04	0.006
33	-0.01	-0.001	-0.06	-0.009	0.06	0.009
34	0.04	0.006	0.00	0.000	0.04	0.006
35	0.01	0.001	0.02	0.003	0.02	0.003

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 88.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.24	-0.035	-0.28	-0.041	0.87	0.053
2	0.06	0.009	0.11	0.016	0.18	0.018
8	0.01	0.001	0.16	0.023	0.16	0.023
4	-0.02	-0.003	0.08	0.012	0.08	0.012
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	-0.04	-0.006	-0.02	-0.003	0.04	0.006
7	0.00	0.000	-0.02	-0.003	0.02	0.003
8	0.01	0.001	-0.02	-0.003	0.02	0.003
9	0.02	0.003	0.01	0.001	0.02	0.003
10	-0.02	-0.003	0.05	0.007	0.05	0.008
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.01	-0.001	0.00	0.000	0.01	0.001
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	-0.04	-0.006	-0.03	-0.004	0.05	0.007
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	0.05	0.007	0.03	0.004	0.06	0.008
20	0.02	0.003	0.01	0.001	0.02	0.003
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	-0.01	-0.001	-0.03	-0.004	0.03	0.005
23	0.02	0.003	-0.01	-0.001	0.02	0.003
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.03	0.004	0.00	0.000	0.03	0.004
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.02	0.003	0.02	0.003	0.03	0.004
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	0.01	0.001	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.27	-0.039	0.24	0.035	0.86	0.052
2	-0.03	-0.004	-0.23	-0.033	0.23	0.034
8	0.01	0.001	0.00	0.000	0.01	0.001
4	0.00	0.000	0.11	0.016	0.11	0.016
5	-0.15	-0.022	0.07	0.010	0.17	0.024
6	-0.18	-0.026	-0.05	-0.007	0.19	0.027
7	0.02	0.003	-0.16	-0.023	0.16	0.023
8	0.14	0.020	-0.01	-0.001	0.14	0.020
9	0.08	0.012	0.12	0.017	0.14	0.021
10	-0.05	-0.007	0.09	0.013	0.10	0.015
11	-0.10	-0.015	-0.01	-0.001	0.10	0.015
12	-0.03	-0.004	-0.11	-0.016	0.11	0.017
13	0.06	0.009	-0.09	-0.013	0.11	0.016
14	0.09	0.013	0.06	0.009	0.11	0.016
15	0.00	0.000	0.12	0.017	0.12	0.017
16	-0.11	-0.016	0.03	0.004	0.11	0.017
17	-0.08	-0.012	-0.09	-0.013	0.12	0.017
18	0.05	0.007	-0.13	-0.019	0.14	0.020
19	0.12	0.017	0.01	0.001	0.12	0.017
20	0.08	0.012	0.10	0.015	0.13	0.019
21	-0.11	-0.016	0.09	0.013	0.14	0.021
22	-0.13	-0.019	-0.05	-0.007	0.14	0.020
23	0.06	0.009	-0.13	-0.019	0.14	0.021
24	0.14	0.020	-0.03	-0.004	0.14	0.021
25	0.07	0.010	0.14	0.020	0.16	0.023
26	-0.07	-0.010	0.06	0.009	0.09	0.013
27	-0.26	-0.038	0.02	0.003	0.26	0.038
28	0.00	0.000	-0.14	-0.020	0.14	0.020
29	0.13	0.019	-0.01	-0.001	0.13	0.019
30	0.06	0.009	0.10	0.015	0.12	0.017
31	-0.04	-0.006	0.07	0.010	0.08	0.012
32	-0.12	-0.017	-0.03	-0.004	0.12	0.018
33	0.00	0.000	-0.09	-0.013	0.09	0.013
34	0.08	0.012	0.00	0.000	0.08	0.012
35	0.03	0.004	0.06	0.009	0.07	0.010

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.00	0.000	0.00	0.000
2	0.00	0.000	0.00	0.000	0.00	0.000
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.25	0.037	0.00	0.000	0.25	0.037
5	0.00	0.000	0.00	0.000	0.00	0.000
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

754

8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.21	0.030	0.20	0.029	0.29	0.042
2	0.00	0.000	0.03	0.004	0.03	0.004
8	-0.05	-0.007	-0.02	-0.003	0.05	0.008
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.03	0.004	0.02	0.003	0.04	0.005
6	-0.01	-0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.02	0.003	0.01	0.001	0.02	0.003
12	0.01	0.001	-0.01	-0.001	0.01	0.002
18	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	-0.03	-0.004	-0.01	-0.001	0.03	0.005
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.03	0.004	0.00	0.000	0.03	0.004
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	0.02	0.003	-0.01	-0.001	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
80	0.01	0.001	0.01	0.001	0.01	0.002
81	0.00	0.000	0.00	0.000	0.00	0.000
82	0.00	0.000	0.01	0.001	0.01	0.001
88	-0.01	-0.001	-0.01	-0.001	0.01	0.002
84	0.01	0.001	0.00	0.000	0.01	0.001
85	0.00	0.000	0.00	0.000	0.00	0.000

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.67	0.097	0.51	0.074	0.84	0.122
2	0.01	0.001	0.18	0.026	0.18	0.026
3	-0.20	-0.029	-0.04	-0.006	0.20	0.030
4	-0.10	-0.015	-0.16	-0.023	0.19	0.027
5	0.20	0.029	-0.15	-0.022	0.25	0.036
6	0.08	0.012	0.18	0.026	0.20	0.029
7	-0.14	-0.020	0.05	0.007	0.15	0.022
8	-0.06	-0.009	-0.07	-0.010	0.09	0.013
9	0.04	0.006	-0.12	-0.017	0.13	0.018
10	0.12	0.017	0.06	0.009	0.13	0.019
11	-0.06	-0.009	0.07	0.010	0.09	0.013
12	-0.03	-0.004	-0.06	-0.009	0.07	0.010
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	-0.01	-0.001	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.25	0.036	0.64	0.093	0.69	0.100
2	0.09	0.013	-0.25	-0.036	0.27	0.039
3	0.15	0.022	0.11	0.016	0.19	0.027
4	0.01	0.001	0.15	0.022	0.15	0.022
5	-0.09	-0.013	0.04	0.006	0.10	0.014
6	-0.05	-0.007	-0.09	-0.013	0.10	0.015
7	0.04	0.006	-0.07	-0.010	0.08	0.012
8	0.10	0.015	0.03	0.004	0.10	0.015
9	-0.01	-0.001	0.10	0.015	0.10	0.015
10	-0.08	-0.012	0.06	0.009	0.10	0.015
11	-0.04	-0.006	-0.10	-0.015	0.11	0.016
12	0.08	0.012	-0.07	-0.010	0.11	0.015
13	0.07	0.010	-0.01	-0.001	0.07	0.010
14	0.03	0.004	0.07	0.010	0.08	0.011
15	-0.06	-0.009	0.01	0.001	0.06	0.009
16	-0.04	-0.006	-0.06	-0.009	0.07	0.010
17	0.04	0.006	-0.10	-0.015	0.11	0.016
18	0.10	0.015	0.05	0.007	0.11	0.016
19	0.00	0.000	0.11	0.016	0.11	0.016
20	-0.07	-0.010	0.01	0.001	0.07	0.010
21	-0.03	-0.004	-0.10	-0.015	0.10	0.015
22	0.05	0.007	-0.08	-0.012	0.09	0.014
23	0.10	0.015	0.04	0.006	0.11	0.016
24	0.01	0.001	0.09	0.013	0.09	0.013
25	-0.08	-0.012	0.02	0.003	0.08	0.012
26	-0.03	-0.004	-0.08	-0.012	0.09	0.012
27	0.10	0.015	-0.07	-0.010	0.12	0.018
28	0.08	0.012	0.06	0.009	0.10	0.015
29	-0.02	-0.003	0.07	0.010	0.07	0.011
30	-0.07	-0.010	-0.01	-0.001	0.07	0.010
31	0.00	0.000	-0.09	-0.013	0.09	0.013
32	0.07	0.010	-0.03	-0.004	0.08	0.011
33	0.03	0.004	0.07	0.010	0.08	0.011
34	-0.08	-0.012	0.04	0.006	0.09	0.013
35	-0.04	-0.006	-0.03	-0.004	0.05	0.007

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.25	0.036	1.04	0.151	1.07	0.155
2	0.11	0.016	-0.30	-0.044	0.32	0.046
3	0.07	0.010	0.09	0.013	0.11	0.017
4	0.00	0.000	0.10	0.015	0.10	0.015
5	-0.04	-0.006	0.00	0.000	0.04	0.006
6	-0.02	-0.003	-0.05	-0.007	0.05	0.008
7	0.02	0.003	-0.05	-0.007	0.05	0.008
8	0.05	0.007	0.01	0.001	0.05	0.007
9	0.01	0.001	0.04	0.006	0.04	0.006
10	-0.03	-0.004	0.02	0.003	0.04	0.005
11	-0.04	-0.006	-0.03	-0.004	0.05	0.007
12	0.02	0.003	-0.05	-0.007	0.05	0.008
13	0.02	0.003	0.02	0.003	0.03	0.004
14	0.00	0.000	0.04	0.006	0.04	0.006
15	-0.04	-0.006	0.01	0.001	0.04	0.006
16	-0.03	-0.004	-0.04	-0.006	0.05	0.007
17	0.03	0.004	-0.05	-0.007	0.06	0.008
18	0.08	0.012	0.01	0.001	0.08	0.012
19	0.01	0.001	0.06	0.009	0.06	0.009
20	-0.08	-0.012	0.01	0.001	0.08	0.012
21	-0.04	-0.006	-0.03	-0.004	0.05	0.007
22	0.03	0.004	-0.02	-0.003	0.04	0.005
23	0.05	0.007	0.00	0.000	0.05	0.007
24	0.00	0.000	0.05	0.007	0.05	0.007
25	-0.05	-0.007	0.02	0.003	0.05	0.008
26	0.00	0.000	-0.04	-0.006	0.04	0.006
27	0.03	0.004	-0.03	-0.004	0.04	0.006
28	0.05	0.007	0.03	0.004	0.06	0.008
29	-0.11	-0.016	0.01	0.001	0.11	0.016
30	-0.05	-0.007	-0.02	-0.003	0.05	0.008
31	0.00	0.000	-0.03	-0.004	0.03	0.004
32	0.03	0.004	-0.04	-0.006	0.05	0.007
33	0.01	0.001	0.04	0.006	0.04	0.006
34	-0.03	-0.004	0.02	0.003	0.04	0.005
35	-0.03	-0.004	-0.01	-0.001	0.03	0.005

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.98	0.142	1.71	0.248	1.97	0.286
2	0.11	0.016	-0.11	-0.016	0.16	0.023
8	0.08	0.012	0.12	0.017	0.14	0.021
4	-0.07	-0.010	0.08	0.012	0.11	0.015
5	-0.04	-0.006	-0.01	-0.001	0.04	0.006
6	-0.04	-0.006	-0.09	-0.013	0.10	0.014
7	0.04	0.006	-0.05	-0.007	0.06	0.009
8	0.08	0.012	0.05	0.007	0.09	0.014
9	-0.01	-0.001	0.08	0.012	0.08	0.012
10	-0.09	-0.013	0.01	0.001	0.09	0.013
11	-0.04	-0.006	-0.05	-0.007	0.06	0.009
12	0.06	0.009	-0.06	-0.009	0.08	0.012
13	0.05	0.007	0.04	0.006	0.06	0.009
14	-0.01	-0.001	0.08	0.012	0.08	0.012
15	-0.09	-0.013	0.03	0.004	0.09	0.014
16	-0.05	-0.007	-0.06	-0.009	0.08	0.011
17	0.06	0.009	-0.07	-0.010	0.09	0.013
18	0.09	0.013	0.02	0.003	0.09	0.013
19	0.00	0.000	0.08	0.012	0.08	0.012
20	-0.10	-0.015	0.02	0.003	0.10	0.015
21	-0.03	-0.004	-0.08	-0.012	0.09	0.012
22	0.07	0.010	-0.06	-0.009	0.09	0.013
23	0.08	0.012	0.03	0.004	0.09	0.012
24	0.00	0.000	0.08	0.012	0.08	0.012
25	-0.07	-0.010	0.01	0.001	0.07	0.010
26	-0.02	-0.003	-0.09	-0.013	0.09	0.013
27	0.07	0.010	-0.06	-0.009	0.09	0.013
28	0.06	0.009	0.05	0.007	0.08	0.011
29	-0.02	-0.003	0.08	0.012	0.08	0.012
30	-0.07	-0.010	0.00	0.000	0.07	0.010
31	0.00	0.000	-0.06	-0.009	0.06	0.009
32	0.07	0.010	-0.02	-0.003	0.07	0.011
33	0.03	0.004	0.06	0.009	0.07	0.010
34	-0.05	-0.007	0.04	0.006	0.06	0.009
35	-0.03	-0.004	-0.03	-0.004	0.04	0.006

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 6

POINT NUMBER: 5A
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.879 +/- 0.015
 POWER COEFFICIENT: 0.149 +/- 0.001
 BLADE ANGLE (DEG): 27.2 +/- 0.5
 ROTOR SPEED (RPM): 1676 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.27	0.184	1.95	0.283	2.88	0.338
2	0.17	0.025	-0.15	-0.022	0.23	0.033
3	0.15	0.022	0.15	0.022	0.21	0.031
4	0.02	0.003	0.17	0.025	0.17	0.025
5	-0.13	-0.019	0.06	0.009	0.14	0.021
6	-0.12	-0.017	-0.15	-0.022	0.19	0.028
7	0.00	0.000	-0.14	-0.020	0.14	0.020
8	0.18	0.026	-0.02	-0.003	0.18	0.026
9	0.06	0.009	0.15	0.022	0.16	0.023
10	-0.07	-0.010	0.10	0.015	0.12	0.018
11	-0.17	-0.025	-0.02	-0.003	0.17	0.025
12	-0.02	-0.003	-0.18	-0.026	0.18	0.026
13	0.16	0.023	-0.10	-0.015	0.19	0.027
14	0.09	0.013	0.03	0.004	0.09	0.014
15	0.03	0.004	0.16	0.023	0.16	0.024
16	-0.13	-0.019	0.03	0.004	0.13	0.019
17	-0.08	-0.012	-0.12	-0.017	0.14	0.021
18	0.04	0.006	-0.16	-0.023	0.16	0.024
19	0.17	0.025	-0.01	-0.001	0.17	0.025
20	0.05	0.007	0.15	0.022	0.16	0.023
21	-0.11	-0.016	0.11	0.016	0.16	0.023
22	-0.13	-0.019	-0.07	-0.010	0.15	0.021
23	0.01	0.001	-0.14	-0.020	0.14	0.020
24	0.14	0.020	0.05	0.007	0.15	0.022
25	0.05	0.007	0.08	0.012	0.09	0.014
26	-0.06	-0.009	0.11	0.016	0.13	0.018
27	-0.16	-0.023	-0.43	-0.062	0.46	0.067
28	0.00	0.000	-0.14	-0.020	0.14	0.020
29	0.09	0.013	-0.02	-0.003	0.09	0.013
30	0.09	0.013	0.09	0.013	0.13	0.018
31	-0.07	-0.010	0.10	0.015	0.12	0.018
32	-0.15	-0.022	-0.03	-0.004	0.15	0.022
33	0.01	0.001	-0.11	-0.016	0.11	0.016
34	0.11	0.016	-0.05	-0.007	0.12	0.018
35	0.05	0.007	0.07	0.010	0.09	0.012

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.54	-0.078	-0.91	-0.132	1.06	0.153
2	-0.02	-0.003	0.18	0.019	0.18	0.019
3	-0.05	-0.007	0.06	0.009	0.08	0.011
4	-0.02	-0.003	-0.03	-0.004	0.04	0.005
5	-0.03	-0.004	-0.12	-0.017	0.12	0.018
6	-0.02	-0.003	0.02	0.003	0.03	0.004
7	0.00	0.000	0.00	0.000	0.00	0.000
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	0.01	0.001	-0.03	-0.004	0.03	0.005
10	0.02	0.003	-0.03	-0.004	0.04	0.005
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.03	0.004	-0.01	-0.001	0.03	0.005
14	-0.01	-0.001	-0.05	-0.007	0.05	0.007
15	-0.04	-0.006	0.00	0.000	0.04	0.006
16	-0.02	-0.003	0.01	0.001	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.05	-0.007	-0.03	-0.004	0.06	0.008
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.02	0.003	0.02	0.003
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	0.01	0.001	0.03	0.004	0.03	0.005
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.00	0.000	0.02	0.003	0.02	0.003
26	-0.02	-0.003	-0.01	-0.001	0.02	0.003
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.02	0.003	-0.03	-0.004	0.04	0.005
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.01	-0.001	0.02	0.003	0.02	0.003
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	0.02	0.003	0.00	0.000	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.49	-0.071	-0.58	-0.077	0.72	0.105
2	0.08	0.012	0.27	0.039	0.28	0.041
3	-0.06	-0.009	0.02	0.003	0.06	0.009
4	0.00	0.000	-0.03	-0.004	0.03	0.004
5	0.11	0.016	0.06	0.009	0.13	0.018
6	0.01	0.001	0.03	0.004	0.03	0.005
7	0.05	0.007	0.03	0.004	0.06	0.008
8	0.01	0.001	0.01	0.001	0.01	0.002
9	-0.02	-0.003	0.02	0.003	0.03	0.004
10	-0.01	-0.001	0.04	0.006	0.04	0.006
11	-0.01	-0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.01	0.001	-0.01	-0.001	0.01	0.002
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.04	0.006	0.08	0.012	0.09	0.013
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.03	0.004	0.00	0.000	0.03	0.004
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.01	0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.55	-0.080	-0.17	-0.025	0.58	0.088
2	-0.03	-0.004	0.12	0.017	0.12	0.018
3	0.05	0.007	-0.01	-0.001	0.05	0.007
4	0.01	0.001	-0.02	-0.003	0.02	0.003
5	-0.03	-0.004	-0.05	-0.007	0.06	0.008
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.05	0.007	-0.03	-0.004	0.06	0.008
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	-0.02	-0.003	0.04	0.006	0.04	0.006
11	-0.03	-0.004	-0.02	-0.003	0.04	0.005
12	0.02	0.003	0.00	0.000	0.02	0.003
13	-0.03	-0.004	0.02	0.003	0.04	0.005
14	0.04	0.006	0.00	0.000	0.04	0.006
15	0.02	0.003	-0.03	-0.004	0.04	0.005
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.07	0.010	0.01	0.001	0.07	0.010
18	0.00	0.000	-0.04	-0.006	0.04	0.006
19	0.00	0.000	0.01	0.001	0.01	0.001
20	-0.02	-0.003	0.01	0.001	0.02	0.003
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.02	0.003	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.03	0.004	0.00	0.000	0.03	0.004
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 7 RATIO: 0.641 CHORD: 4.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	-0.04	-0.006	0.04	0.006
2	-0.02	-0.003	0.04	0.006	0.04	0.006
3	0.04	0.006	0.00	0.000	0.04	0.006
4	-0.03	-0.004	-0.01	-0.001	0.03	0.005
5	0.03	0.004	0.01	0.001	0.03	0.005
6	-0.02	-0.003	-0.02	-0.003	0.03	0.004
7	0.00	0.000	0.03	0.004	0.03	0.004
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.01	-0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.78	-0.113	-1.00	-0.145	1.27	0.184
2	-0.06	-0.009	0.08	0.012	0.10	0.015
3	-0.05	-0.007	0.02	0.003	0.05	0.008
4	0.01	0.001	0.01	0.001	0.01	0.002
5	0.04	0.006	0.13	0.019	0.14	0.020
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	-0.01	-0.001	0.03	0.004	0.03	0.005
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	0.02	0.003	0.02	0.003
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	-0.02	-0.003	0.02	0.003
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	0.03	0.004	0.03	0.005
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

B-65

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.55	-0.080	-0.74	-0.107	0.92	0.134
2	-0.06	-0.009	0.09	0.013	0.11	0.016
3	-0.05	-0.007	0.02	0.003	0.05	0.008
4	0.02	0.003	0.03	0.004	0.04	0.005
5	0.29	0.042	0.02	0.003	0.29	0.042
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	-0.02	-0.003	0.02	0.003
9	-0.02	-0.003	-0.01	-0.001	0.02	0.003
10	0.05	0.007	-0.02	-0.003	0.05	0.008
11	0.02	0.003	0.02	0.003	0.03	0.004
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.03	0.004	0.00	0.000	0.03	0.004
14	0.01	0.001	-0.03	-0.004	0.03	0.005
15	0.00	0.000	-0.03	-0.004	0.03	0.004
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.02	0.003	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	-0.09	-0.013	0.09	0.013
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	-0.03	-0.004	0.01	0.001	0.03	0.005
23	0.02	0.003	0.01	0.001	0.02	0.003
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.03	0.004	0.01	0.001	0.03	0.005
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	-0.01	-0.001	0.01	0.002

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.49	-0.071	-0.61	-0.088	0.78	0.113
2	0.02	0.003	0.09	0.013	0.09	0.013
3	-0.05	-0.007	0.00	0.000	0.05	0.007
4	-0.01	-0.001	-0.01	-0.001	0.01	0.002
5	-0.15	-0.022	0.02	0.003	0.15	0.022
6	-0.01	-0.001	-0.01	-0.001	0.01	0.002
7	-0.02	-0.003	-0.02	-0.003	0.03	0.004
8	-0.02	-0.003	0.01	0.001	0.02	0.003
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	-0.02	-0.003	0.02	0.003	0.03	0.004
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.01	0.001	-0.04	-0.006	0.04	0.006
13	0.03	0.004	0.02	0.003	0.04	0.005
14	-0.02	-0.003	-0.01	-0.001	0.02	0.003
15	0.04	0.006	-0.01	-0.001	0.04	0.006
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	-0.04	-0.006	0.06	0.009	0.07	0.010
19	0.02	0.003	0.00	0.000	0.02	0.003
20	0.04	0.006	-0.03	-0.004	0.05	0.007
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.01	0.001	0.02	0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	-0.03	-0.004	0.03	0.005
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.01	0.001	0.02	0.003	0.02	0.003
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.03	0.004	-0.01	-0.001	0.03	0.005
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

B-67

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.64	-0.093	-0.46	-0.067	0.79	0.114
2	0.13	0.019	0.09	0.013	0.16	0.023
3	-0.07	-0.010	0.00	0.000	0.07	0.010
4	-0.03	-0.004	-0.01	-0.001	0.03	0.005
5	-0.11	-0.016	0.01	0.001	0.11	0.016
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	-0.01	-0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	-0.01	-0.001	0.02	0.003
10	0.05	0.007	0.04	0.006	0.06	0.009
11	0.05	0.007	0.02	0.003	0.05	0.008
12	0.02	0.003	0.02	0.003	0.03	0.004
13	0.01	0.001	0.00	0.000	0.01	0.001
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	0.02	0.003	0.01	0.001	0.02	0.003
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	-0.04	-0.006	-0.01	-0.001	0.04	0.006
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.04	-0.006	0.04	0.006
29	0.01	0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.02	0.003	0.02	0.003
31	0.02	0.003	-0.01	-0.001	0.02	0.003
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.04	0.006	0.00	0.000	0.04	0.006
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-68

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.32	-0.046	-0.29	-0.042	0.43	0.063
2	0.06	0.009	0.17	0.025	0.18	0.026
3	-0.06	-0.009	0.10	0.015	0.12	0.017
4	-0.04	-0.006	0.05	0.007	0.06	0.009
5	-0.01	-0.001	-0.11	-0.016	0.11	0.016
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	-0.02	-0.003	-0.04	-0.006	0.04	0.006
8	0.02	0.003	-0.03	-0.004	0.04	0.005
9	0.03	0.004	-0.01	-0.001	0.03	0.005
10	0.05	0.007	0.00	0.000	0.05	0.007
11	0.03	0.004	0.02	0.003	0.04	0.005
12	-0.01	-0.001	0.01	0.001	0.01	0.002
13	-0.01	-0.001	-0.03	-0.004	0.03	0.005
14	0.02	0.003	-0.05	-0.007	0.05	0.008
15	-0.02	-0.003	-0.01	-0.001	0.02	0.003
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.03	0.004	0.00	0.000	0.03	0.004
18	-0.04	-0.006	-0.02	-0.003	0.04	0.006
19	-0.03	-0.004	0.01	0.001	0.03	0.005
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.03	-0.004	0.01	0.001	0.03	0.005
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	-0.01	-0.001	0.01	0.002
30	-0.02	-0.003	0.01	0.001	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

P-67

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.82	0.046	0.46	0.067	0.56	0.081
2	-0.12	-0.017	0.00	0.000	0.12	0.017
3	-0.03	-0.004	-0.01	-0.001	0.03	0.005
4	0.03	0.004	0.02	0.003	0.04	0.005
5	-0.05	-0.007	0.07	0.010	0.09	0.012
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.00	0.000	-0.03	-0.004	0.03	0.004
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.01	0.001	0.02	0.003	0.02	0.003
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	-0.04	-0.006	0.04	0.006
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	-0.02	-0.003	0.02	0.003	0.03	0.004
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.03	-0.004	-0.01	-0.001	0.03	0.005
19	0.03	0.004	0.00	0.000	0.03	0.004
20	0.00	0.000	-0.15	-0.022	0.15	0.022
21	-0.02	-0.003	0.01	0.001	0.02	0.003
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	-0.05	-0.007	0.00	0.000	0.05	0.007
24	0.05	0.007	0.01	0.001	0.05	0.007
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.03	-0.004	-0.01	-0.001	0.03	0.005
27	0.01	0.001	0.03	0.004	0.03	0.005
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	-0.04	-0.006	0.04	0.006
31	0.06	0.009	0.01	0.001	0.06	0.009
32	0.03	0.004	0.00	0.000	0.03	0.004
33	-0.16	-0.023	0.12	0.017	0.20	0.029
34	0.00	0.000	-0.04	-0.006	0.04	0.006
35	0.04	0.006	0.05	0.007	0.06	0.009

B-70

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.53	0.077	0.13	0.019	0.55	0.079
2	0.13	0.019	-0.06	-0.009	0.14	0.021
3	-0.04	-0.006	-0.08	-0.012	0.09	0.013
4	-0.02	-0.003	0.01	0.001	0.02	0.003
5	0.01	0.001	0.00	0.000	0.01	0.001
6	0.00	0.000	0.03	0.004	0.03	0.004
7	-0.05	-0.007	0.00	0.000	0.05	0.007
8	-0.05	-0.007	-0.03	-0.004	0.06	0.008
9	0.03	0.004	0.04	0.006	0.05	0.007
10	0.04	0.006	0.00	0.000	0.04	0.006
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.01	0.001	-0.04	-0.006	0.04	0.006
14	0.02	0.003	0.00	0.000	0.02	0.003
15	0.02	0.003	0.03	0.004	0.04	0.005
16	0.02	0.003	0.01	0.001	0.02	0.003
17	0.00	0.000	-0.04	-0.006	0.04	0.006
18	-0.03	-0.004	0.01	0.001	0.03	0.005
19	0.01	0.001	0.03	0.004	0.03	0.005
20	0.02	0.003	-0.02	-0.003	0.03	0.004
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	-0.02	-0.003	0.01	0.001	0.02	0.003
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	-0.04	-0.006	-0.01	-0.001	0.04	0.006
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	-0.02	-0.003	-0.01	-0.001	0.02	0.003
28	-0.01	-0.001	0.03	0.004	0.03	0.005
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.01	0.001	0.04	0.006	0.04	0.006
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.01	-0.001	0.00	0.000	0.01	0.001

5-71

3 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.24	0.035	-0.05	-0.007	0.25	0.036
2	0.07	0.010	0.04	0.006	0.08	0.012
3	0.01	0.001	-0.03	-0.004	0.03	0.005
4	0.02	0.003	0.03	0.004	0.04	0.005
5	0.07	0.010	-0.11	-0.016	0.13	0.019
6	-0.01	-0.001	0.02	0.003	0.02	0.003
7	-0.01	-0.001	-0.02	-0.003	0.02	0.003
8	0.00	0.000	0.01	0.001	0.01	0.001
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.02	0.003	-0.02	-0.003	0.03	0.004
11	0.02	0.003	0.01	0.001	0.02	0.003
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.03	0.004	-0.02	-0.003	0.04	0.005
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	0.01	0.001	0.02	0.003
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.62	0.090	0.22	0.032	0.66	0.095
2	0.07	0.010	0.28	0.033	0.24	0.035
3	-0.19	-0.028	-0.04	-0.006	0.19	0.028
4	-0.11	-0.016	-0.19	-0.028	0.22	0.032
5	0.23	0.033	-0.17	-0.025	0.29	0.041
6	0.08	0.012	0.18	0.026	0.20	0.029
7	-0.14	-0.020	0.04	0.006	0.15	0.021
8	-0.06	-0.009	-0.05	-0.007	0.08	0.011
9	0.05	0.007	-0.10	-0.015	0.11	0.016
10	0.12	0.017	0.07	0.010	0.14	0.020
11	-0.06	-0.009	0.08	0.012	0.10	0.015
12	-0.04	-0.006	-0.05	-0.007	0.06	0.009
13	0.03	0.004	-0.02	-0.003	0.04	0.005
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.02	0.003	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.03	0.004	-0.02	-0.003	0.04	0.005
22	0.02	0.003	0.00	0.000	0.02	0.003
23	-0.02	-0.003	0.02	0.003	0.03	0.004
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.02	0.003	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.02	-0.003	-0.02	-0.003	0.03	0.004
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-73

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
MACH NUMBER: 0.200 +/- 0.003
ADVANCE RATIO: 0.881 +/- 0.015
POWER COEFFICIENT: 0.200 +/- 0.001
BLADE ANGLE (DEG): 29.5 +/- 0.5
ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	0.31	0.045	0.32	0.047
2	0.07	0.010	-0.14	-0.020	0.16	0.023
8	0.00	0.000	-0.07	-0.010	0.07	0.010
4	0.06	0.009	0.03	0.004	0.07	0.010
5	-0.16	-0.023	-0.07	-0.010	0.17	0.025
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.02	0.003	0.01	0.001	0.02	0.003
10	-0.05	-0.007	0.05	0.007	0.07	0.010
11	0.00	0.000	0.02	0.003	0.02	0.003
12	-0.01	-0.001	-0.02	-0.003	0.02	0.003
18	-0.02	-0.003	-0.02	-0.004	0.04	0.005
14	0.00	0.000	0.02	0.003	0.02	0.003
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.03	0.004	-0.04	-0.006	0.05	0.007
19	0.02	0.003	-0.03	-0.004	0.04	0.005
20	0.01	0.001	0.04	0.006	0.04	0.006
21	0.04	0.006	0.00	0.000	0.04	0.006
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	0.02	0.003	0.02	0.003
24	-0.02	-0.003	0.00	0.000	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.03	0.004	0.00	0.000	0.03	0.004
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.03	-0.004	0.03	0.004
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.02	0.003	0.02	0.003

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.91	0.132	0.91	0.132
2	0.37	0.054	-0.35	-0.051	0.51	0.074
3	-0.08	-0.012	-0.03	-0.004	0.09	0.012
4	0.05	0.007	0.05	0.007	0.07	0.010
5	-0.02	-0.003	-0.15	-0.022	0.15	0.022
6	-0.03	-0.004	-0.01	-0.001	0.03	0.005
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.03	0.004	0.00	0.000	0.03	0.004
10	0.01	0.001	0.00	0.000	0.01	0.001
11	0.00	0.000	0.03	0.004	0.03	0.004
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.01	0.001	-0.01	-0.001	0.01	0.001
14	-0.01	-0.001	-0.01	-0.001	0.01	0.001
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.02	0.003	0.00	0.000	0.02	0.003
19	-0.03	-0.004	-0.03	-0.004	0.04	0.006
20	0.01	0.001	0.02	0.003	0.02	0.003
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.07	0.010	-0.02	-0.003	0.07	0.011
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.75	0.399	8.44	1.224	8.88	1.287
2	0.45	0.065	-0.63	-0.091	0.77	0.112
3	0.48	0.070	0.63	0.091	0.79	0.115
4	-0.06	-0.009	-0.25	-0.036	0.26	0.037
5	0.36	0.052	-0.04	-0.006	0.36	0.053
6	0.03	0.004	0.03	0.004	0.04	0.006
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.04	0.006	-0.06	-0.009	0.07	0.010
9	0.04	0.006	-0.06	-0.009	0.07	0.010
10	0.09	0.013	0.01	0.001	0.09	0.013
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	0.03	0.004	-0.04	-0.006	0.05	0.007
13	0.06	0.009	0.01	0.001	0.06	0.009
14	-0.01	-0.001	-0.03	-0.004	0.03	0.005
15	-0.06	-0.009	-0.04	-0.006	0.07	0.010
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	-0.03	-0.004	0.02	0.003	0.04	0.005
18	0.03	0.004	-0.02	-0.003	0.04	0.005
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	-0.02	-0.003	-0.02	-0.003	0.03	0.004
21	0.02	0.003	0.02	0.003	0.03	0.004
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.03	0.004	-0.01	-0.001	0.03	0.005
24	-0.01	-0.001	0.03	0.004	0.03	0.005
25	-0.03	-0.004	0.00	0.000	0.03	0.004
26	0.01	0.001	0.06	0.009	0.06	0.009
27	0.06	0.009	-0.03	-0.004	0.07	0.010
28	0.04	0.006	0.01	0.001	0.04	0.006
29	0.01	0.001	0.01	0.001	0.01	0.002
30	-0.01	-0.001	0.02	0.003	0.02	0.003
31	0.01	0.001	0.02	0.003	0.02	0.003
32	0.02	0.003	-0.01	-0.001	0.02	0.003
33	-0.05	-0.007	0.00	0.000	0.05	0.007
34	0.01	0.001	0.00	0.000	0.01	0.001
35	-0.02	-0.003	-0.02	-0.003	0.03	0.004

8 DEGREE ANGULAR INFLOW

RUN NUMBER 7

POINT NUMBER: 5B
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.200 +/- 0.001
 BLADE ANGLE (DEG): 29.5 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	5.62	0.815	8.77	1.272	10.42	1.511
2	-1.82	-0.264	3.29	0.477	3.76	0.545
3	-0.04	-0.006	0.00	0.000	0.04	0.006
4	0.25	0.036	0.92	0.133	0.95	0.138
5	-0.21	-0.030	0.54	0.078	0.58	0.084
6	-0.06	-0.009	-0.01	-0.001	0.06	0.009
7	-0.08	-0.012	-0.02	-0.003	0.08	0.012
8	0.07	0.010	-0.03	-0.004	0.08	0.011
9	0.01	0.001	0.07	0.010	0.07	0.010
10	-0.03	-0.004	-0.03	-0.004	0.04	0.006
11	0.09	0.013	-0.01	-0.001	0.09	0.013
12	-0.01	-0.001	0.06	0.009	0.06	0.009
13	0.12	0.017	-0.06	-0.009	0.13	0.019
14	-0.01	-0.001	0.03	0.004	0.03	0.005
15	-0.03	-0.004	0.03	0.004	0.04	0.006
16	0.08	0.012	0.05	0.007	0.09	0.014
17	-0.01	-0.001	-0.02	-0.003	0.02	0.003
18	-0.02	-0.003	-0.03	-0.004	0.04	0.005
19	0.06	0.009	0.07	0.010	0.09	0.013
20	0.02	0.003	0.08	0.012	0.08	0.012
21	0.02	0.003	0.00	0.000	0.02	0.003
22	0.01	0.001	-0.02	-0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.02	0.003	-0.01	-0.001	0.02	0.003
25	0.02	0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	0.03	0.004	-0.03	-0.004	0.04	0.006
28	0.01	0.001	0.03	0.004	0.03	0.005
29	-0.05	-0.007	-0.01	-0.001	0.05	0.007
30	-0.02	-0.003	-0.01	-0.001	0.02	0.003
31	0.03	0.004	-0.03	-0.004	0.04	0.006
32	0.02	0.003	-0.04	-0.006	0.04	0.006
33	0.00	0.000	0.10	0.015	0.10	0.015
34	-0.03	-0.004	-0.01	-0.001	0.03	0.005
35	0.07	0.010	0.00	0.000	0.07	0.010

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.67	-0.097	-0.83	-0.120	1.07	0.155
2	0.06	0.009	0.06	0.009	0.08	0.012
3	0.02	0.003	0.08	0.012	0.08	0.012
4	0.00	0.000	-0.02	-0.003	0.02	0.003
5	-0.02	-0.003	0.01	0.001	0.02	0.003
6	0.00	0.000	0.07	0.010	0.07	0.010
7	0.00	0.000	-0.04	-0.006	0.04	0.006
8	-0.01	-0.001	0.01	0.001	0.01	0.002
9	-0.02	-0.003	0.01	0.001	0.02	0.003
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.01	0.001	-0.01	-0.001	0.01	0.002
14	-0.01	-0.001	0.03	0.004	0.03	0.005
15	-0.01	-0.001	0.04	0.006	0.04	0.006
16	0.01	0.001	0.00	0.000	0.01	0.001
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	0.02	0.003	0.00	0.000	0.02	0.003
19	-0.04	-0.006	0.06	0.009	0.07	0.010
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.02	0.003	0.02	0.003	0.03	0.004
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.02	0.003	0.02	0.003

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 5 RATIO: 0.906 CHORD: 69.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.45	-0.065	-0.51	-0.074	0.68	0.099
2	0.17	0.025	0.06	0.009	0.18	0.026
3	-0.02	-0.003	0.01	0.001	0.02	0.003
4	-0.01	-0.001	-0.04	-0.006	0.04	0.006
5	0.00	0.000	0.01	0.001	0.01	0.001
6	0.02	0.003	0.03	0.004	0.04	0.005
7	0.07	0.010	-0.07	-0.010	0.10	0.014
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	0.00	0.000	0.03	0.004	0.03	0.004
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.03	0.004	0.00	0.000	0.03	0.004
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	-0.03	-0.004	0.03	0.004
14	-0.03	-0.004	-0.02	-0.003	0.04	0.005
15	-0.02	-0.003	0.01	0.001	0.02	0.003
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.02	0.003	0.02	0.003
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.00	0.000	-0.02	-0.003	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.02	0.003	0.02	0.003
35	-0.01	-0.001	0.00	0.000	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.27	-0.039	-0.13	-0.019	0.30	0.043
2	0.12	0.017	0.01	0.001	0.12	0.017
3	-0.06	-0.009	0.13	0.019	0.14	0.021
4	0.00	0.000	0.03	0.004	0.03	0.004
5	0.04	0.006	-0.01	-0.001	0.04	0.006
6	0.00	0.000	0.05	0.007	0.05	0.007
7	0.03	0.004	-0.06	-0.009	0.07	0.010
8	0.04	0.006	-0.01	-0.001	0.04	0.006
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.03	0.004	0.04	0.006	0.05	0.007
11	0.02	0.003	-0.03	-0.004	0.04	0.005
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	-0.03	-0.004	-0.02	-0.003	0.04	0.005
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.02	-0.003	-0.02	-0.003	0.03	0.004
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.02	0.003	0.02	0.003
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	-0.01	-0.001	-0.02	-0.003	0.02	0.003
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	0.00	0.000	0.02	0.003
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	-0.01	-0.001	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	-0.04	-0.006	0.08	0.012
2	-0.02	-0.008	0.04	0.006	0.04	0.006
8	0.05	0.007	-0.02	-0.003	0.05	0.008
4	-0.04	-0.006	0.00	0.000	0.04	0.006
5	0.00	0.000	-0.01	-0.001	0.01	0.001
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.02	0.003	0.04	0.006	0.04	0.006
8	-0.01	-0.001	-0.02	-0.003	0.02	0.003
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
80	-0.01	-0.001	0.00	0.000	0.01	0.001
81	0.00	0.000	0.00	0.000	0.00	0.000
82	-0.01	-0.001	-0.01	-0.001	0.01	0.002
88	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	-0.02	-0.003	0.02	0.003

B81

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 8 RATIO: 0.641 CHORD: 10.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.97	-0.141	-0.77	-0.112	1.24	0.180
2	0.04	0.006	0.04	0.006	0.06	0.008
3	-0.01	-0.001	0.03	0.004	0.03	0.005
4	0.02	0.003	0.01	0.001	0.02	0.003
5	0.01	0.001	-0.08	-0.012	0.08	0.012
6	-0.01	-0.001	-0.01	-0.001	0.01	0.002
7	-0.02	-0.003	0.05	0.007	0.05	0.008
8	-0.04	-0.006	-0.02	-0.003	0.04	0.006
9	-0.02	-0.003	-0.01	-0.001	0.02	0.003
10	0.04	0.006	-0.01	-0.001	0.04	0.006
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.02	-0.003	-0.01	-0.001	0.02	0.003
13	0.02	0.003	0.00	0.000	0.02	0.003
14	-0.02	-0.003	-0.02	-0.003	0.03	0.004
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.00	0.000	0.01	0.001
17	-0.02	-0.003	-0.01	-0.001	0.02	0.003
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.04	0.006	0.01	0.001	0.04	0.006
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	0.02	0.003	0.02	0.003
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.02	-0.003	-0.01	-0.001	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.03	0.004	0.00	0.000	0.03	0.004
35	0.00	0.000	-0.02	-0.003	0.02	0.003

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.68	-0.099	-0.63	-0.091	0.93	0.134
2	0.01	0.001	0.06	0.009	0.06	0.009
3	-0.04	-0.006	0.03	0.004	0.05	0.007
4	0.00	0.000	-0.02	-0.003	0.02	0.003
5	0.11	0.016	-0.07	-0.010	0.13	0.019
6	-0.06	-0.009	0.01	0.001	0.06	0.009
7	-0.02	-0.003	0.07	0.010	0.07	0.011
8	0.01	0.001	-0.03	-0.004	0.03	0.005
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.03	0.004	0.03	0.004	0.04	0.006
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	0.02	0.003	0.02	0.003	0.03	0.004
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.02	0.003	0.01	0.001	0.02	0.003
17	0.01	0.001	-0.02	-0.003	0.02	0.003
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.05	0.007	0.04	0.006	0.06	0.009
20	-0.03	-0.004	-0.02	-0.003	0.04	0.005
21	0.00	0.000	0.04	0.006	0.04	0.006
22	0.03	0.004	0.00	0.000	0.03	0.004
23	-0.02	-0.003	0.01	0.001	0.02	0.003
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.02	0.003	-0.01	-0.001	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.02	0.003	0.02	0.003
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.02	0.003	-0.02	-0.003	0.03	0.004

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.66	-0.096	-0.48	-0.062	0.79	0.114
2	0.06	0.009	0.01	0.001	0.06	0.009
3	0.02	0.003	0.07	0.010	0.07	0.011
4	-0.03	-0.004	0.00	0.000	0.03	0.004
5	-0.03	-0.004	0.00	0.000	0.03	0.004
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	0.04	0.006	-0.06	-0.007	0.06	0.009
8	-0.02	-0.003	0.00	0.000	0.02	0.003
9	0.01	0.001	0.02	0.003	0.02	0.003
10	-0.02	-0.003	0.01	0.001	0.02	0.003
11	0.00	0.000	-0.03	-0.004	0.03	0.004
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.05	0.007	0.01	0.001	0.05	0.007
14	-0.02	-0.003	-0.02	-0.003	0.03	0.004
15	0.05	0.007	0.02	0.003	0.05	0.008
16	0.02	0.003	-0.04	-0.006	0.04	0.006
17	-0.02	-0.003	0.01	0.001	0.02	0.003
18	0.07	0.010	-0.02	-0.003	0.07	0.011
19	0.02	0.003	0.06	0.009	0.06	0.009
20	-0.04	-0.006	-0.02	-0.003	0.04	0.006
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	-0.03	-0.004	0.02	0.003	0.04	0.005
24	-0.08	-0.012	-0.27	-0.039	0.28	0.041
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	-0.03	-0.004	0.03	0.004
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.02	-0.003	-0.01	-0.001	0.02	0.003
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.02	0.003	0.04	0.006	0.04	0.006
32	-0.02	-0.003	0.01	0.001	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.01	0.001	-0.02	-0.003	0.02	0.003

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.77	-0.112	-0.84	-0.049	0.84	0.122
2	0.19	0.028	0.06	0.009	0.20	0.029
3	-0.03	-0.004	0.01	0.001	0.03	0.005
4	-0.02	-0.003	-0.01	-0.001	0.02	0.003
5	-0.04	-0.006	-0.03	-0.004	0.05	0.007
6	0.00	0.000	0.01	0.001	0.01	0.001
7	0.02	0.003	0.01	0.001	0.02	0.003
8	-0.03	-0.004	-0.03	-0.004	0.04	0.006
9	-0.02	-0.003	0.02	0.003	0.03	0.004
10	0.00	0.000	-0.02	-0.003	0.02	0.003
11	0.02	0.003	-0.03	-0.004	0.04	0.005
12	0.01	0.001	-0.03	-0.004	0.03	0.005
13	0.04	0.006	0.03	0.004	0.05	0.007
14	0.00	0.000	0.04	0.006	0.04	0.006
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.03	0.004	0.02	0.003	0.04	0.005
19	-0.03	-0.004	0.01	0.001	0.03	0.005
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	0.04	0.006	0.04	0.006
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	-0.04	-0.006	0.04	0.006
24	-0.04	-0.006	0.37	0.054	0.37	0.054
25	0.00	0.000	0.03	0.004	0.03	0.004
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	-0.02	-0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.03	0.004	0.03	0.005
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.03	0.004	0.01	0.001	0.03	0.005

7-35

3 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.40	-0.058	-0.19	-0.028	0.44	0.064
2	0.09	0.013	0.10	0.015	0.13	0.020
3	0.01	0.001	0.10	0.015	0.10	0.015
4	0.00	0.000	0.04	0.006	0.04	0.006
5	-0.03	-0.004	-0.01	-0.001	0.03	0.005
6	-0.01	-0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	-0.02	-0.003	0.02	0.003
8	-0.03	-0.004	-0.04	-0.006	0.05	0.007
9	0.02	0.003	0.01	0.001	0.02	0.003
10	0.04	0.006	0.01	0.001	0.04	0.006
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.01	0.001	0.01	0.001
14	-0.01	-0.001	-0.01	-0.001	0.01	0.002
15	0.02	0.003	0.03	0.004	0.04	0.005
16	0.01	0.001	-0.02	-0.003	0.02	0.003
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.01	0.001	0.01	0.001	0.01	0.002
19	0.03	0.004	-0.02	-0.003	0.04	0.005
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	-0.01	-0.001	0.04	0.006	0.04	0.006
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	-0.15	-0.022	0.07	0.010	0.17	0.024
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.02	0.003	0.02	0.003	0.03	0.004
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.02	-0.003	-0.01	-0.001	0.02	0.003
32	-0.04	-0.006	-0.01	-0.001	0.04	0.006
33	0.00	0.000	0.02	0.003	0.02	0.003
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.02	0.003	0.00	0.000	0.02	0.003

3 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.56	-0.371	-0.02	-0.003	2.56	0.371
2	0.51	0.074	-2.18	-0.316	2.24	0.325
3	-0.81	-0.117	1.03	0.149	1.31	0.190
4	-0.05	-0.007	0.65	0.094	0.65	0.095
5	-0.05	-0.007	0.21	0.030	0.22	0.031
6	0.23	0.033	0.11	0.016	0.25	0.037
7	0.19	0.028	0.08	0.012	0.21	0.030
8	0.12	0.017	-0.23	-0.033	0.26	0.038
9	-0.13	-0.019	-0.14	-0.020	0.19	0.028
10	0.13	0.019	0.10	0.015	0.16	0.024
11	-0.32	-0.046	-0.34	-0.049	0.47	0.068
12	0.17	0.025	-0.03	-0.004	0.17	0.025
13	-0.09	-0.013	0.07	0.010	0.11	0.017
14	-0.01	-0.001	-0.11	-0.016	0.11	0.016
15	0.19	0.028	-0.28	-0.041	0.34	0.049
16	0.15	0.022	0.30	0.044	0.34	0.049
17	-0.01	-0.001	-0.13	-0.019	0.13	0.019
18	0.02	0.003	-0.02	-0.003	0.03	0.004
19	0.02	0.003	0.10	0.015	0.10	0.015
20	-0.16	-0.023	-0.07	-0.010	0.17	0.025
21	0.20	0.029	-0.09	-0.013	0.22	0.032
22	-0.05	-0.007	0.02	0.003	0.05	0.008
23	0.03	0.004	-0.08	-0.012	0.09	0.012
24	0.02	0.003	0.06	0.009	0.06	0.009
25	0.13	0.019	0.16	0.023	0.21	0.030
26	0.17	0.025	-0.04	-0.006	0.17	0.025
27	0.08	0.012	-0.13	-0.019	0.15	0.022
28	-0.14	-0.020	-0.09	-0.013	0.17	0.024
29	-0.09	-0.013	0.20	0.029	0.22	0.032
30	-0.10	-0.015	-0.15	-0.022	0.18	0.026
31	0.04	0.006	-0.03	-0.004	0.05	0.007
32	-0.07	-0.010	0.00	0.000	0.07	0.010
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.02	-0.003	0.05	0.007	0.05	0.008
35	0.03	0.004	0.01	0.001	0.03	0.005

B21

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-3.19	-0.463	-0.02	-0.003	3.19	0.463
2	0.08	0.012	-2.55	-0.370	2.55	0.370
3	-0.44	-0.064	1.49	0.216	1.55	0.225
4	0.09	0.018	0.46	0.067	0.47	0.068
5	-0.05	-0.007	0.18	0.026	0.19	0.027
6	0.26	0.038	-0.20	-0.029	0.33	0.048
7	0.01	0.001	-0.30	-0.044	0.30	0.044
8	-0.24	-0.035	-0.26	-0.038	0.35	0.051
9	-0.03	-0.004	-0.17	-0.025	0.17	0.025
10	0.31	0.045	0.01	0.001	0.31	0.045
11	-0.58	-0.084	0.23	0.033	0.62	0.090
12	0.17	0.025	-0.29	-0.042	0.34	0.049
13	0.31	0.045	-0.01	-0.001	0.31	0.045
14	-0.12	-0.017	0.28	0.041	0.30	0.044
15	-0.10	-0.015	-0.22	-0.032	0.24	0.035
16	0.29	0.042	-0.18	-0.026	0.34	0.050
17	0.21	0.030	0.14	0.020	0.25	0.037
18	-0.04	-0.006	0.07	0.010	0.08	0.012
19	-0.03	-0.004	-0.01	-0.001	0.03	0.005
20	-0.03	-0.004	0.11	0.016	0.11	0.017
21	0.10	0.015	0.02	0.003	0.10	0.015
22	-0.06	-0.009	-0.01	-0.001	0.06	0.009
23	-0.08	-0.012	0.13	0.019	0.15	0.022
24	-0.08	-0.004	0.05	0.007	0.06	0.008
25	0.07	0.010	-0.05	-0.007	0.09	0.012
26	0.13	0.019	0.19	0.028	0.23	0.033
27	-0.17	-0.025	0.23	0.033	0.29	0.041
28	0.01	0.001	-0.22	-0.032	0.22	0.032
29	0.27	0.039	0.01	0.001	0.27	0.039
30	-0.11	-0.016	0.13	0.019	0.17	0.025
31	0.13	0.019	-0.11	-0.016	0.17	0.025
32	-0.07	-0.010	-0.07	-0.010	0.10	0.014
33	0.18	0.026	0.10	0.015	0.21	0.030
34	0.00	0.000	-0.09	-0.013	0.09	0.013
35	-0.05	-0.007	0.13	0.019	0.14	0.020

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
MACH NUMBER: 0.199 +/- 0.003
ADVANCE RATIO: 0.881 +/- 0.015
POWER COEFFICIENT: 0.251 +/- 0.001
BLADE ANGLE (DEG): 31.6 +/- 0.5
ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-3.18	-0.454	2.30	0.334	3.88	0.568
2	0.18	0.026	-2.37	-0.344	2.38	0.345
3	-0.03	-0.004	1.14	0.165	1.14	0.165
4	-0.29	-0.042	0.30	0.044	0.42	0.061
5	0.37	0.054	-0.04	-0.006	0.37	0.054
6	0.03	0.004	0.02	0.003	0.04	0.005
7	0.03	0.004	-0.03	-0.004	0.04	0.006
8	-0.26	-0.038	-0.20	-0.029	0.38	0.048
9	-0.18	-0.019	-0.04	-0.006	0.14	0.020
10	0.28	0.041	-0.03	-0.004	0.28	0.041
11	-0.12	-0.017	0.26	0.038	0.29	0.042
12	-0.12	-0.017	-0.24	-0.035	0.27	0.039
13	0.10	0.015	0.03	0.004	0.10	0.015
14	-0.09	-0.013	-0.01	-0.001	0.09	0.013
15	-0.01	-0.001	-0.04	-0.006	0.04	0.006
16	0.23	0.033	0.08	0.012	0.24	0.035
17	-0.07	-0.010	-0.14	-0.020	0.16	0.023
18	0.07	0.010	0.21	0.030	0.22	0.032
19	0.03	0.004	-0.20	-0.029	0.20	0.029
20	0.08	0.012	0.03	0.004	0.09	0.012
21	0.08	0.012	0.00	0.000	0.08	0.012
22	-0.11	-0.016	-0.13	-0.019	0.17	0.025
23	0.16	0.023	0.24	0.035	0.29	0.042
24	0.01	0.001	0.10	0.015	0.10	0.015
25	-0.06	-0.009	-0.44	-0.064	0.44	0.064
26	-0.01	-0.001	0.25	0.036	0.25	0.036
27	-0.02	-0.003	0.15	0.022	0.15	0.022
28	0.13	0.019	-0.06	-0.009	0.14	0.021
29	-0.07	-0.010	-0.08	-0.012	0.11	0.015
30	-0.01	-0.001	0.11	0.016	0.11	0.016
31	-0.10	-0.015	0.10	0.015	0.14	0.021
32	0.04	0.006	-0.06	-0.009	0.07	0.010
33	0.00	0.000	0.03	0.004	0.03	0.004
34	0.04	0.006	0.04	0.006	0.06	0.008
35	0.00	0.000	-0.03	-0.004	0.03	0.004

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.16	0.023	0.33	0.048	0.87	0.053
2	0.03	0.004	0.05	0.007	0.06	0.008
3	0.04	0.006	0.04	0.006	0.06	0.008
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	0.08	0.012	-0.02	-0.003	0.08	0.012
6	0.01	0.001	0.00	0.000	0.01	0.001
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	0.01	0.001	0.01	0.001	0.01	0.002
11	0.01	0.001	-0.02	-0.003	0.02	0.003
12	-0.02	-0.003	-0.01	-0.001	0.02	0.003
13	-0.02	-0.003	0.02	0.003	0.03	0.004
14	0.02	0.003	0.00	0.000	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.04	-0.006	0.01	0.001	0.04	0.006
19	0.04	0.006	0.03	0.004	0.05	0.007
20	0.00	0.000	-0.04	-0.006	0.04	0.006
21	-0.02	-0.003	0.03	0.004	0.04	0.005
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.02	0.003	0.02	0.003
24	-0.02	-0.003	-0.01	-0.001	0.02	0.003
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.03	0.004	0.00	0.000	0.03	0.004
27	0.01	0.001	-0.03	-0.004	0.03	0.005
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	-0.03	-0.004	0.03	0.004
30	-0.04	-0.006	0.01	0.001	0.04	0.006
31	0.03	0.004	0.00	0.000	0.03	0.004
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	-0.01	-0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.03	-0.004	0.03	0.004

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 21 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.66	0.096	0.48	0.070	0.82	0.118
2	0.09	0.013	0.22	0.032	0.24	0.034
3	-0.15	-0.022	0.08	0.012	0.17	0.025
4	-0.20	-0.029	-0.08	-0.012	0.22	0.031
5	0.07	0.010	-0.29	-0.042	0.30	0.043
6	0.18	0.026	0.05	0.007	0.19	0.027
7	-0.04	-0.006	0.15	0.022	0.16	0.023
8	-0.07	-0.010	0.04	0.006	0.08	0.012
9	-0.09	-0.013	-0.10	-0.015	0.13	0.020
10	0.08	0.012	-0.11	-0.016	0.14	0.020
11	0.07	0.010	0.05	0.007	0.09	0.012
12	-0.04	-0.006	0.07	0.010	0.08	0.012
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	-0.03	-0.004	0.03	0.004
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	-0.02	-0.003	-0.01	-0.001	0.02	0.003
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.02	0.003	0.02	0.003
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	-0.02	-0.003	0.01	0.001	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.01	0.001	0.02	0.003	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.02	0.003	0.02	0.003	0.03	0.004

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.34	0.049	2.25	0.326	2.28	0.330
2	0.44	0.064	-0.16	-0.023	0.47	0.068
3	0.10	0.015	0.04	0.006	0.11	0.016
4	0.29	0.042	-0.05	-0.007	0.29	0.043
5	-0.09	-0.013	-0.27	-0.039	0.28	0.041
6	-0.09	-0.013	0.12	0.017	0.15	0.022
7	0.02	0.003	-0.07	-0.010	0.07	0.011
8	-0.02	-0.003	-0.07	-0.010	0.07	0.011
9	0.04	0.006	0.01	0.001	0.04	0.006
10	0.02	0.003	-0.05	-0.007	0.05	0.008
11	-0.03	-0.004	0.00	0.000	0.03	0.004
12	0.05	0.007	0.03	0.004	0.06	0.008
13	0.03	0.004	-0.03	-0.004	0.04	0.006
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.02	0.003	0.02	0.003
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.03	-0.004	-0.02	-0.003	0.04	0.005
19	0.00	0.000	0.03	0.004	0.03	0.004
20	0.05	0.007	-0.03	-0.004	0.06	0.008
21	-0.03	-0.004	0.02	0.003	0.04	0.005
22	0.03	0.004	-0.03	-0.004	0.04	0.006
23	-0.02	-0.003	-0.04	-0.006	0.04	0.006
24	0.06	0.009	0.00	0.000	0.06	0.009
25	-0.01	-0.001	0.03	0.004	0.03	0.005
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.02	0.003	-0.01	-0.001	0.02	0.003
28	0.02	0.003	-0.01	-0.001	0.02	0.003
29	-0.04	-0.006	0.01	0.001	0.04	0.006
30	-0.03	-0.004	0.00	0.000	0.03	0.004
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.02	0.003	0.01	0.001	0.02	0.003
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.03	-0.004	0.00	0.000	0.03	0.004

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.42	0.206	5.45	0.790	5.63	0.817
2	1.09	0.158	-0.78	-0.118	1.34	0.194
3	0.28	0.041	0.29	0.042	0.40	0.058
4	0.54	0.078	-0.46	-0.067	0.71	0.103
5	-0.50	-0.073	-0.18	-0.026	0.53	0.077
6	0.10	0.015	0.17	0.025	0.20	0.029
7	-0.04	-0.006	-0.23	-0.033	0.23	0.034
8	-0.14	-0.020	0.10	0.015	0.17	0.025
9	0.07	0.010	0.07	0.010	0.10	0.014
10	0.04	0.006	-0.02	-0.003	0.04	0.006
11	0.06	0.009	-0.01	-0.001	0.06	0.009
12	-0.01	-0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.06	-0.009	-0.04	-0.006	0.07	0.010
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.03	0.004	-0.01	-0.001	0.03	0.005
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	-0.07	-0.010	-0.01	-0.001	0.07	0.010
20	0.03	0.004	0.00	0.000	0.03	0.004
21	-0.01	-0.001	0.03	0.004	0.03	0.005
22	0.05	0.007	-0.02	-0.003	0.05	0.008
23	-0.03	-0.004	-0.04	-0.006	0.05	0.007
24	-0.03	-0.004	-0.01	-0.001	0.03	0.005
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	-0.02	-0.003	-0.03	-0.004	0.04	0.005
27	0.02	0.003	0.00	0.000	0.02	0.003
28	-0.02	-0.003	-0.01	-0.001	0.02	0.003
29	-0.03	-0.004	0.02	0.003	0.04	0.005
30	0.06	0.009	0.07	0.010	0.09	0.013
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	-0.01	-0.001	0.01	0.002
33	-0.03	-0.004	0.00	0.000	0.03	0.004
34	-0.01	-0.001	0.04	0.006	0.04	0.006
35	0.08	0.012	-0.03	-0.004	0.09	0.012

8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.79	0.405	1.88	0.273	3.36	0.488
2	-0.46	-0.067	0.26	0.038	0.53	0.077
3	-0.12	-0.017	0.19	0.028	0.22	0.033
4	-0.02	-0.003	0.16	0.023	0.16	0.023
5	0.24	0.035	0.14	0.020	0.28	0.040
6	-0.03	-0.004	-0.06	-0.009	0.07	0.010
7	0.07	0.010	0.11	0.016	0.13	0.019
8	0.07	0.010	-0.03	-0.004	0.08	0.011
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	0.00	0.000	0.06	0.009	0.06	0.009
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	-0.02	-0.003	0.05	0.007	0.05	0.008
13	0.01	0.001	0.09	0.013	0.09	0.013
14	-0.01	-0.001	0.04	0.006	0.04	0.006
15	0.00	0.000	0.02	0.003	0.02	0.003
16	-0.01	-0.001	-0.02	-0.003	0.02	0.003
17	-0.03	-0.004	0.04	0.006	0.05	0.007
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.01	0.001	0.01	0.002
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	-0.04	-0.006	0.04	0.006
24	-0.06	-0.009	0.01	0.001	0.06	0.009
25	-0.02	-0.003	-0.03	-0.004	0.04	0.005
26	0.06	0.009	0.11	0.016	0.13	0.018
27	0.05	0.007	-0.08	-0.012	0.09	0.014
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	-0.02	-0.003	0.02	0.003
30	-0.05	-0.007	0.00	0.000	0.05	0.007
31	-0.08	-0.012	-0.05	-0.007	0.09	0.014
32	-0.02	-0.003	-0.02	-0.003	0.03	0.004
33	0.04	0.006	-0.01	-0.001	0.04	0.006
34	-0.01	-0.001	0.07	0.010	0.07	0.010
35	-0.02	-0.003	0.15	0.022	0.15	0.022

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 8

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.251 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.38	0.200	-1.17	-0.170	1.81	0.262
2	-0.98	-0.142	0.41	0.059	1.06	0.154
3	-0.22	-0.032	-0.10	-0.015	0.24	0.035
4	-0.32	-0.046	0.81	0.117	0.87	0.126
5	0.51	0.074	0.00	0.000	0.51	0.074
6	-0.15	-0.022	-0.10	-0.015	0.18	0.026
7	0.12	0.017	0.09	0.013	0.15	0.022
8	0.05	0.007	-0.24	-0.035	0.25	0.036
9	-0.14	-0.020	0.10	0.015	0.17	0.025
10	-0.01	-0.001	-0.05	-0.007	0.05	0.007
11	0.00	0.000	0.02	0.003	0.02	0.003
12	0.00	0.000	0.03	0.004	0.03	0.004
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.01	0.001	-0.05	-0.007	0.05	0.007
15	0.05	0.007	0.01	0.001	0.05	0.007
16	-0.01	-0.001	-0.03	-0.004	0.03	0.005
17	0.03	0.004	0.00	0.000	0.03	0.004
18	0.00	0.000	-0.08	-0.012	0.08	0.012
19	0.02	0.003	0.10	0.015	0.10	0.015
20	-0.04	-0.006	0.02	0.003	0.04	0.006
21	0.02	0.003	0.05	0.007	0.05	0.008
22	0.02	0.003	0.01	0.001	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.03	0.004	-0.01	-0.001	0.03	0.005
25	0.00	0.000	0.04	0.006	0.04	0.006
26	0.00	0.000	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.02	0.003	-0.04	-0.006	0.04	0.006
30	-0.03	-0.004	0.00	0.000	0.03	0.004
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	-0.02	-0.003	0.03	0.004	0.04	0.005
33	0.02	0.003	-0.05	-0.007	0.05	0.008
34	-0.06	-0.009	0.00	0.000	0.06	0.009
35	0.02	0.003	0.02	0.003	0.03	0.004

3-75

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.54	-0.368	-3.23	-0.468	4.11	0.596
2	-0.02	-0.003	0.26	0.038	0.26	0.038
3	-0.29	-0.042	0.17	0.025	0.34	0.049
4	-0.08	-0.012	-0.02	-0.003	0.08	0.012
5	-0.08	-0.012	-0.08	-0.012	0.11	0.016
6	0.04	0.006	-0.06	-0.009	0.07	0.010
7	0.01	0.001	-0.04	-0.006	0.04	0.006
8	0.00	0.000	-0.04	-0.006	0.04	0.006
9	-0.03	-0.004	-0.01	-0.001	0.03	0.005
10	0.03	0.004	0.01	0.001	0.03	0.005
11	0.03	0.004	0.02	0.003	0.04	0.005
12	-0.03	-0.004	0.01	0.001	0.03	0.005
13	0.01	0.001	0.02	0.003	0.02	0.003
14	0.02	0.003	0.04	0.006	0.04	0.006
15	-0.02	-0.003	0.10	0.015	0.10	0.015
16	0.00	0.000	0.05	0.007	0.05	0.007
17	-0.04	-0.006	0.02	0.003	0.04	0.006
18	0.01	0.001	0.01	0.001	0.01	0.002
19	-0.02	-0.003	-0.03	-0.004	0.04	0.005
20	0.05	0.007	-0.05	-0.007	0.07	0.010
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	-0.02	-0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	0.01	0.001	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.02	0.003	-0.01	-0.001	0.02	0.003
26	0.03	0.004	-0.01	-0.001	0.03	0.005
27	0.03	0.004	-0.01	-0.001	0.03	0.005
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.03	0.004	0.02	0.003	0.04	0.005
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	0.02	0.003	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.01	0.001	0.01	0.002

B-70

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.970 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1100 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.07	-0.155	-1.34	-0.194	1.71	0.249
2	0.07	0.010	0.19	0.028	0.20	0.029
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	0.04	0.006	-0.12	-0.017	0.18	0.018
5	-0.04	-0.006	-0.06	-0.009	0.07	0.010
6	0.00	0.000	0.03	0.004	0.03	0.004
7	0.03	0.004	-0.02	-0.003	0.04	0.005
8	0.02	0.003	0.00	0.000	0.02	0.003
9	-0.04	-0.006	0.00	0.000	0.04	0.006
10	0.00	0.000	-0.04	-0.006	0.04	0.006
11	0.00	0.000	0.03	0.004	0.03	0.004
12	-0.02	-0.003	0.01	0.001	0.02	0.003
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.02	0.003	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.01	0.001	-0.01	-0.001	0.01	0.002
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.01	0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.02	0.003	0.00	0.000	0.02	0.003
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.41	-0.059	-0.99	-0.144	1.07	0.155
2	-0.02	-0.003	-0.05	-0.007	0.05	0.008
3	0.01	0.001	-0.01	-0.001	0.01	0.002
4	0.03	0.004	-0.06	-0.009	0.07	0.010
5	-0.04	-0.006	-0.04	-0.006	0.06	0.008
6	0.01	0.001	0.03	0.004	0.03	0.005
7	0.01	0.001	-0.01	-0.001	0.01	0.002
8	0.02	0.003	-0.01	-0.001	0.02	0.003
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	0.02	0.003	-0.01	-0.001	0.02	0.003
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.02	0.003	0.00	0.000	0.02	0.003
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.02	0.003	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.01	0.001	0.01	0.001
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.01	0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	0.00	0.000	0.00	0.000

7-98

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.39	-0.057	-0.53	-0.077	0.66	0.095
2	-0.19	-0.028	0.15	0.022	0.24	0.035
3	0.05	0.007	0.06	0.009	0.08	0.011
4	-0.01	-0.001	0.01	0.001	0.01	0.002
5	0.03	0.004	0.03	0.004	0.04	0.006
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	-0.01	-0.001	0.03	0.004	0.03	0.005
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.01	0.001	0.02	0.003	0.02	0.003
12	0.02	0.003	-0.01	-0.001	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.03	0.004	0.03	0.004
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

3-99

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1120 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-3.39	-0.492	-4.16	-0.603	5.37	0.778
2	0.04	0.006	0.08	0.012	0.09	0.013
3	0.12	0.017	0.02	0.003	0.12	0.018
4	0.08	0.012	0.03	0.004	0.09	0.012
5	0.04	0.006	0.11	0.016	0.12	0.017
6	-0.06	-0.009	0.06	0.009	0.08	0.012
7	-0.02	-0.003	0.00	0.000	0.02	0.003
8	-0.04	-0.006	-0.01	-0.001	0.04	0.006
9	-0.05	-0.007	0.00	0.000	0.05	0.007
10	-0.03	-0.004	0.00	0.000	0.03	0.004
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.01	0.001	0.01	0.001	0.01	0.002
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.02	-0.003	0.01	0.001	0.02	0.003
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.02	-0.003	-0.01	-0.001	0.02	0.003
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.02	0.003	0.02	0.003
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.03	0.004	0.00	0.000	0.03	0.004
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	0.02	0.003	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

B/A

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.47	-0.358	-3.15	-0.457	4.00	0.581
2	-0.03	-0.004	0.04	0.006	0.05	0.007
3	-0.01	-0.001	0.02	0.003	0.02	0.003
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.03	0.004	-0.01	-0.001	0.03	0.005
8	-0.03	-0.004	-0.01	-0.001	0.03	0.005
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.01	0.001	0.03	0.004	0.03	0.005
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.02	0.003	0.01	0.001	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.02	-0.003	-0.02	-0.003	0.03	0.004
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.03	-0.004	0.01	0.001	0.03	0.005
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	-0.01	-0.001	-0.01	-0.001	0.01	0.002
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B-11

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
MACH NUMBER: 0.500 +/- 0.002
ADVANCE RATIO: 8.070 +/- 0.012
POWER COEFFICIENT: 0.112 +/- 0.001
BLADE ANGLE (DEG): 52.0 +/- 0.5
ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
TRANSDUCER: 10 RATIO: 0.641 CHORD: 86.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.53	-0.222	-2.27	-0.329	2.74	0.397
2	0.00	0.000	0.06	0.009	0.06	0.009
8	-0.03	-0.004	-0.02	-0.003	0.04	0.005
4	-0.01	-0.001	-0.01	-0.001	0.01	0.002
5	0.01	0.001	-0.04	-0.006	0.04	0.006
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.01	0.001	0.03	0.004	0.03	0.005
10	0.01	0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	0.01	0.001	0.01	0.002
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.02	0.003	0.01	0.001	0.02	0.003
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	0.02	0.003	0.02	0.003
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	-0.03	-0.004	0.03	0.004
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	-0.04	-0.006	0.04	0.006
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.02	0.003	0.00	0.000	0.02	0.003

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.25	-0.181	-1.74	-0.252	2.14	0.311
2	-0.01	-0.001	0.02	0.003	0.02	0.003
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.00	0.000	-0.06	-0.009	0.06	0.009
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	-0.01	-0.001	-0.02	-0.003	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.04	0.006	0.02	0.003	0.04	0.006
10	-0.03	-0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.02	0.003	0.02	0.003
13	0.03	0.004	-0.02	-0.003	0.04	0.005
14	0.03	0.004	0.02	0.003	0.04	0.005
15	0.00	0.000	-0.03	-0.004	0.03	0.004
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.03	-0.004	0.00	0.000	0.03	0.004
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.05	0.007	0.00	0.000	0.05	0.007
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.02	0.003	0.02	0.003	0.03	0.004
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	-0.03	-0.004	-0.06	-0.009	0.07	0.010
26	0.02	0.003	-0.01	-0.001	0.02	0.003
27	0.08	0.012	-0.01	-0.001	0.08	0.012
28	0.00	0.000	-0.03	-0.004	0.03	0.004
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	-0.03	-0.004	0.03	0.004	0.04	0.006
31	0.02	0.003	0.01	0.001	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.07	0.010	-0.05	-0.007	0.09	0.012
34	0.02	0.003	0.00	0.000	0.02	0.003
35	-0.01	-0.001	0.00	0.000	0.01	0.001

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3 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.11	-0.161	-1.40	-0.203	1.79	0.259
2	0.08	0.012	0.09	0.013	0.12	0.017
3	-0.01	-0.001	-0.04	-0.006	0.04	0.006
4	0.01	0.001	-0.02	-0.003	0.02	0.003
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	0.02	0.003	0.01	0.001	0.02	0.003
7	0.02	0.003	0.00	0.000	0.02	0.003
8	0.02	0.003	0.00	0.000	0.02	0.003
9	-0.01	-0.001	-0.02	-0.003	0.02	0.003
10	-0.02	-0.003	0.01	0.001	0.02	0.003
11	0.02	0.003	0.01	0.001	0.02	0.003
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	-0.01	-0.001	0.03	0.004	0.03	0.005
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.03	-0.004	-0.01	-0.001	0.03	0.005
16	0.00	0.000	0.03	0.004	0.03	0.004
17	-0.03	-0.004	0.00	0.000	0.03	0.004
18	0.02	0.003	0.01	0.001	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.04	0.006	-0.01	-0.001	0.04	0.006
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.02	0.003	-0.03	-0.004	0.04	0.005
26	0.02	0.003	-0.04	-0.006	0.04	0.006
27	0.00	0.000	-0.04	-0.006	0.04	0.006
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.04	0.006	0.05	0.007	0.06	0.009
34	0.02	0.003	0.00	0.000	0.02	0.003
35	0.00	0.000	0.01	0.001	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.48	-0.070	-0.87	-0.126	0.99	0.144
2	0.01	0.001	0.07	0.010	0.07	0.010
3	-0.04	-0.006	0.02	0.003	0.04	0.006
4	0.00	0.000	-0.05	-0.007	0.05	0.007
5	0.00	0.000	-0.06	-0.009	0.06	0.009
6	0.01	0.001	-0.02	-0.003	0.02	0.003
7	0.02	0.003	0.00	0.000	0.02	0.003
8	0.01	0.001	0.02	0.003	0.02	0.003
9	-0.02	-0.003	0.03	0.004	0.04	0.005
10	-0.03	-0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	-0.03	-0.004	0.03	0.004
12	0.00	0.000	-0.03	-0.004	0.03	0.004
13	0.03	0.004	0.00	0.000	0.03	0.004
14	0.01	0.001	0.00	0.000	0.01	0.001
15	-0.03	-0.004	0.00	0.000	0.03	0.004
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	-0.02	-0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.02	0.003	0.02	0.003
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.10	0.015	-0.01	-0.001	0.10	0.015
28	0.02	0.003	-0.02	-0.003	0.03	0.004
29	0.02	0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	0.02	0.003	0.02	0.003
31	0.02	0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.04	0.006	0.04	0.006
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.01	0.146	1.73	0.251	2.00	0.291
2	0.16	0.023	-0.48	-0.070	0.51	0.073
3	0.10	0.015	0.00	0.000	0.10	0.015
4	-0.03	-0.004	0.11	0.016	0.11	0.017
5	-0.05	-0.007	0.01	0.001	0.05	0.007
6	0.01	0.001	-0.02	-0.003	0.02	0.003
7	0.00	0.000	0.01	0.001	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	0.04	0.006	0.04	0.006
10	-0.03	-0.004	-0.01	-0.001	0.03	0.005
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	0.02	0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.00	0.000	0.02	0.003	0.02	0.003
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.02	0.003	0.01	0.001	0.02	0.003
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.01	0.001	0.01	0.001
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.02	0.003	0.02	0.003
23	0.02	0.003	-0.01	-0.001	0.02	0.003
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	-0.04	-0.006	-0.01	-0.001	0.04	0.006
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.02	-0.003	-0.01	-0.001	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.78	0.251	1.84	0.267	2.53	0.366
2	0.19	0.028	-0.27	-0.039	0.33	0.048
3	-0.03	-0.004	-0.08	-0.012	0.09	0.012
4	0.03	0.004	0.05	0.007	0.06	0.008
5	0.00	0.000	-0.01	-0.001	0.01	0.001
6	0.04	0.006	0.00	0.000	0.04	0.006
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.02	0.003	-0.01	-0.001	0.02	0.003
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	-0.02	-0.003	-0.01	-0.001	0.02	0.003
12	0.01	0.001	0.00	0.000	0.01	0.001
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.02	0.003	0.00	0.000	0.02	0.003
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.02	0.003	0.01	0.001	0.02	0.003
21	0.00	0.000	0.03	0.004	0.03	0.004
22	-0.02	-0.003	0.01	0.001	0.02	0.003
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.03	0.004	0.02	0.003	0.04	0.005
26	0.02	0.003	0.00	0.000	0.02	0.003
27	0.01	0.001	0.03	0.004	0.03	0.005
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.01	0.001	-0.03	-0.004	0.03	0.005
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

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8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.55	0.370	2.59	0.376	3.68	0.527
2	0.37	0.054	-0.16	-0.023	0.40	0.058
8	-0.04	-0.006	-0.09	-0.013	0.10	0.014
4	0.02	0.003	0.07	0.010	0.07	0.011
5	0.03	0.004	-0.07	-0.010	0.08	0.011
6	-0.05	-0.007	-0.01	-0.001	0.05	0.007
7	-0.05	-0.007	-0.04	-0.006	0.06	0.009
8	0.02	0.003	0.00	0.000	0.02	0.003
9	0.02	0.003	-0.01	-0.001	0.02	0.003
10	0.01	0.001	0.01	0.001	0.01	0.002
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.02	-0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	-0.02	-0.003	0.01	0.001	0.02	0.003
16	0.01	0.001	0.00	0.000	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.04	0.006	0.04	0.006
19	0.03	0.004	0.00	0.000	0.03	0.004
20	0.03	0.004	0.01	0.001	0.03	0.005
21	-0.02	-0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.03	-0.004	-0.12	-0.017	0.12	0.018
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
80	0.01	0.001	0.00	0.000	0.01	0.001
81	-0.01	-0.001	0.01	0.001	0.01	0.002
82	0.02	0.003	0.00	0.000	0.02	0.003
88	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	0.00	0.000	0.00	0.000

B-108

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.20	0.174	0.38	0.048	1.24	0.180
2	-0.01	-0.001	-0.08	-0.012	0.08	0.012
3	-0.01	-0.001	-0.01	-0.001	0.01	0.002
4	0.02	0.003	-0.01	-0.001	0.02	0.003
5	0.01	0.001	-0.03	-0.004	0.03	0.005
6	0.00	0.000	0.02	0.003	0.02	0.003
7	-0.01	-0.001	-0.01	-0.001	0.01	0.002
8	0.01	0.001	0.02	0.003	0.02	0.003
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	-0.02	-0.003	0.02	0.003
12	0.01	0.001	-0.01	-0.001	0.01	0.002
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.02	0.003	0.02	0.003	0.03	0.004
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.02	0.003	0.03	0.004	0.04	0.005
19	0.02	0.003	-0.01	-0.001	0.02	0.003
20	-0.01	-0.001	0.03	0.004	0.03	0.005
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	-0.05	-0.007	0.05	0.007
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.03	0.004	0.00	0.000	0.03	0.004
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-109

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.07	0.300	1.49	0.216	2.55	0.370
2	-0.01	-0.001	-0.24	-0.035	0.24	0.035
3	0.02	0.003	-0.01	-0.001	0.02	0.003
4	0.05	0.007	0.01	0.001	0.05	0.007
5	-0.01	-0.001	0.01	0.001	0.01	0.002
6	0.01	0.001	0.01	0.001	0.01	0.002
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.01	0.001	0.01	0.001	0.01	0.002
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.01	0.001	0.00	0.000	0.01	0.001
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	0.00	0.000	0.01	0.001	0.01	0.001
14	0.00	0.000	0.03	0.004	0.03	0.004
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.01	0.001	-0.02	-0.003	0.02	0.003
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.05	0.007	0.05	0.007
28	0.01	0.001	0.01	0.001	0.01	0.002
29	-0.03	-0.004	-0.02	-0.003	0.04	0.005
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.02	0.003	-0.01	-0.001	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.03	-0.004	0.05	0.007	0.06	0.008
35	0.01	0.001	0.01	0.001	0.01	0.002

P-1/D

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.37	0.344	2.05	0.297	8.18	0.454
2	0.08	0.012	-0.32	-0.046	0.83	0.048
3	0.05	0.007	-0.01	-0.001	0.05	0.007
4	0.00	0.000	0.06	0.009	0.06	0.009
5	-0.01	-0.001	0.03	0.004	0.03	0.005
6	0.01	0.001	-0.01	-0.001	0.01	0.002
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	0.00	0.000	0.01	0.001	0.01	0.001
11	-0.01	-0.001	-0.01	-0.001	0.01	0.002
12	0.02	0.003	-0.01	-0.001	0.02	0.003
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.01	0.001	-0.03	-0.004	0.03	0.005
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	-0.01	-0.001	0.01	0.001

B-111

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	4.25	0.616	8.65	0.529	5.60	0.818
2	0.12	0.017	-0.26	-0.038	0.29	0.042
3	-0.04	-0.006	-0.07	-0.010	0.08	0.012
4	-0.02	-0.003	0.00	0.000	0.02	0.003
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	0.04	0.006	0.01	0.001	0.04	0.006
7	0.00	0.000	0.03	0.004	0.03	0.004
8	0.02	0.003	0.00	0.000	0.02	0.003
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.00	0.000	0.02	0.003	0.02	0.003
11	0.01	0.001	-0.02	-0.003	0.02	0.003
12	-0.01	-0.001	0.01	0.001	0.01	0.002
13	-0.02	-0.003	-0.01	-0.001	0.02	0.003
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.02	0.003	0.03	0.004	0.04	0.005
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-112

8 DEGREE ANGULAR INFLOW

RUN NUMBER 9

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.070 +/- 0.012
 POWER COEFFICIENT: 0.112 +/- 0.001
 BLADE ANGLE (DEG): 52.0 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	5.04	0.731	4.22	0.612	6.57	0.953
2	0.07	0.010	-0.51	-0.074	0.51	0.075
3	-0.06	-0.009	-0.08	-0.012	0.10	0.015
4	0.01	0.001	0.02	0.003	0.02	0.003
5	-0.01	-0.001	-0.01	-0.001	0.01	0.002
6	0.01	0.001	-0.01	-0.001	0.01	0.002
7	0.00	0.000	0.03	0.004	0.03	0.004
8	0.03	0.004	-0.04	-0.006	0.05	0.007
9	0.02	0.003	0.02	0.003	0.03	0.004
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	-0.02	-0.003	0.02	0.003	0.03	0.004
13	0.02	0.003	-0.01	-0.001	0.02	0.003
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.02	0.003	-0.01	-0.001	0.02	0.003
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	-0.04	-0.006	0.00	0.000	0.04	0.006
18	0.00	0.000	0.04	0.006	0.04	0.006
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.04	0.006	-0.02	-0.003	0.04	0.006
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.01	0.001	0.02	0.003	0.02	0.003
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.02	0.003	-0.02	-0.003	0.03	0.004
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.07	0.010	0.02	0.003	0.07	0.011
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.02	0.003	0.00	0.000	0.02	0.003
30	-0.02	-0.003	0.04	0.006	0.04	0.006
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.02	-0.003	0.02	0.003	0.03	0.004
33	0.00	0.000	-0.03	-0.004	0.03	0.004
34	0.11	0.016	0.04	0.006	0.12	0.017
35	0.00	0.000	0.00	0.000	0.00	0.000

B-113

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.22	-0.322	-2.30	-0.334	3.20	0.464
2	-0.02	-0.003	0.12	0.017	0.12	0.018
3	-0.05	-0.007	0.03	0.004	0.06	0.008
4	-0.03	-0.004	-0.03	-0.004	0.04	0.006
5	-0.06	-0.009	0.02	0.003	0.06	0.009
6	0.01	0.001	0.00	0.000	0.01	0.001
7	-0.04	-0.006	-0.03	-0.004	0.05	0.007
8	0.01	0.001	-0.03	-0.004	0.03	0.005
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.01	0.001	-0.02	-0.003	0.02	0.003
11	0.03	0.012	0.00	0.000	0.03	0.012
12	-0.01	-0.001	0.01	0.001	0.01	0.002
13	-0.03	-0.004	0.01	0.001	0.03	0.005
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.02	0.003	0.01	0.001	0.02	0.003
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.03	0.004	0.06	0.009	0.07	0.010
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	-0.03	-0.004	0.03	0.005
23	0.01	0.001	0.01	0.001	0.01	0.002
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.03	0.004	0.03	0.004
29	-0.02	-0.003	0.01	0.001	0.02	0.003
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.03	0.004	-0.01	-0.001	0.03	0.005
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.02	-0.003	-0.01	-0.001	0.02	0.003

B-114

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.006 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.87	-0.126	-1.09	-0.158	1.39	0.202
2	0.07	0.010	0.04	0.006	0.08	0.012
3	-0.12	-0.017	-0.06	-0.009	0.13	0.019
4	-0.08	-0.012	0.00	0.000	0.08	0.012
5	0.00	0.000	0.01	0.001	0.01	0.001
6	0.04	0.006	-0.02	-0.003	0.04	0.006
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.01	0.001	0.01	0.001	0.01	0.002
9	0.00	0.000	-0.05	-0.007	0.05	0.007
10	0.01	0.001	-0.03	-0.004	0.03	0.005
11	0.02	0.003	-0.01	-0.001	0.02	0.003
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.01	0.001	0.01	0.001
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.01	-0.001	0.02	0.003	0.02	0.003
20	0.02	0.003	0.00	0.000	0.02	0.003
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.02	0.003	-0.01	-0.001	0.02	0.003
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.02	0.003	0.01	0.001	0.02	0.003
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.01	0.001	0.01	0.001	0.01	0.002

B-115

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 6 RATIO: 0.906 CHORD: 89.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.45	-0.065	-0.97	-0.141	1.07	0.155
2	-0.01	-0.001	0.05	0.007	0.05	0.007
3	-0.04	-0.006	-0.01	-0.001	0.04	0.006
4	-0.03	-0.004	0.01	0.001	0.03	0.005
5	-0.07	-0.010	0.02	0.003	0.07	0.011
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.01	0.001	-0.01	-0.001	0.01	0.002
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.01	0.001	-0.02	-0.003	0.02	0.003
11	0.00	0.000	-0.02	-0.003	0.02	0.003
12	-0.03	-0.004	0.00	0.000	0.03	0.004
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.01	-0.001	-0.02	-0.003	0.02	0.003
15	-0.02	-0.003	0.01	0.001	0.02	0.003
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	-0.02	-0.003	0.01	0.001	0.02	0.003
18	0.00	0.000	0.03	0.004	0.03	0.004
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.01	0.001	-0.02	-0.003	0.02	0.003
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.03	0.004	-0.03	-0.004	0.04	0.006
30	0.03	0.004	-0.01	-0.001	0.03	0.005
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.04	0.006	0.00	0.000	0.04	0.006

B-116

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.98	-0.142	-1.11	-0.161	1.48	0.215
2	-0.88	-0.048	0.48	0.062	0.54	0.079
3	0.18	0.019	0.00	0.000	0.18	0.019
4	0.05	0.007	-0.02	-0.003	0.05	0.008
5	0.08	0.012	0.04	0.006	0.09	0.013
6	-0.05	-0.007	-0.06	-0.009	0.08	0.011
7	0.04	0.006	0.00	0.000	0.04	0.006
8	-0.02	-0.003	-0.01	-0.001	0.02	0.003
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	-0.01	-0.001	-0.01	-0.001	0.01	0.002
11	0.02	0.003	0.01	0.001	0.02	0.003
12	-0.03	-0.004	0.00	0.000	0.03	0.004
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.01	0.001	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

B-117

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-3.87	-0.561	-3.86	-0.487	5.18	0.748
2	-0.04	-0.006	-0.08	-0.012	0.09	0.013
3	0.01	0.001	0.02	0.003	0.02	0.003
4	-0.05	-0.007	-0.02	-0.003	0.05	0.008
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	0.01	0.001	0.01	0.002
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.01	0.001	0.01	0.001	0.01	0.002
12	0.02	0.003	-0.02	-0.003	0.03	0.004
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.01	0.001	0.01	0.001
18	-0.01	-0.001	0.01	0.001	0.01	0.002
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.01	0.001	-0.01	-0.001	0.01	0.002
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.02	0.003	-0.01	-0.001	0.02	0.003
23	0.01	0.001	0.02	0.003	0.02	0.003
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.02	0.003	-0.01	-0.001	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	-0.01	-0.001	0.01	0.002
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

B-118

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-8.11	-0.451	-2.95	-0.428	4.29	0.622
2	-0.04	-0.006	0.05	0.007	0.06	0.009
8	0.00	0.000	0.01	0.001	0.01	0.001
4	-0.02	-0.003	-0.02	-0.003	0.03	0.004
5	0.00	0.000	-0.01	-0.001	0.01	0.001
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.03	0.004	0.00	0.000	0.03	0.004
8	-0.02	-0.003	0.00	0.000	0.02	0.003
9	0.01	0.001	0.00	0.000	0.01	0.001
10	-0.01	-0.001	0.02	0.003	0.02	0.003
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.01	0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.02	0.003	0.01	0.001	0.02	0.003
28	0.01	0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
80	0.01	0.001	-0.01	-0.001	0.01	0.002
81	0.01	0.001	0.00	0.000	0.01	0.001
82	-0.02	-0.003	-0.03	-0.004	0.04	0.005
83	-0.01	-0.001	0.00	0.000	0.01	0.001
84	0.00	0.000	-0.02	-0.003	0.02	0.003
85	0.02	0.003	0.02	0.003	0.03	0.004

B-119

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.07	-0.300	-2.10	-0.305	2.95	0.428
2	-0.01	-0.001	0.06	0.009	0.06	0.009
3	0.00	0.000	0.00	0.000	0.00	0.000
4	-0.01	-0.001	-0.02	-0.003	0.02	0.003
5	-0.01	-0.001	0.01	0.001	0.01	0.002
6	0.00	0.000	-0.02	-0.003	0.02	0.003
7	0.00	0.000	-0.04	-0.006	0.04	0.006
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.01	0.001	0.01	0.001	0.01	0.002
11	0.02	0.003	0.02	0.003	0.03	0.004
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.04	0.006	0.00	0.000	0.04	0.006
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.00	0.000	-0.03	-0.004	0.03	0.004
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.01	0.001	0.02	0.003	0.02	0.003
27	0.02	0.003	-0.02	-0.003	0.03	0.004
28	0.03	0.004	0.02	0.003	0.04	0.005
29	0.02	0.003	0.01	0.001	0.02	0.003
30	0.02	0.003	-0.01	-0.001	0.02	0.003
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	0.01	0.001	0.01	0.002

B-120

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.76	-0.255	-1.68	-0.244	2.48	0.353
2	-0.02	-0.003	0.05	0.007	0.05	0.003
3	-0.01	-0.001	0.01	0.001	0.01	0.002
4	0.00	0.000	-0.04	-0.006	0.04	0.006
5	-0.03	-0.004	0.00	0.000	0.03	0.004
6	0.01	0.001	-0.01	-0.001	0.01	0.002
7	-0.02	-0.003	-0.02	-0.003	0.03	0.004
8	-0.01	-0.001	0.03	0.004	0.03	0.005
9	0.00	0.000	-0.02	-0.003	0.02	0.003
10	0.02	0.003	-0.02	-0.003	0.03	0.004
11	0.00	0.000	-0.03	-0.004	0.03	0.004
12	-0.04	-0.006	-0.02	-0.003	0.04	0.006
13	0.00	0.000	0.01	0.001	0.01	0.001
14	-0.03	-0.004	0.01	0.001	0.03	0.005
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.02	-0.003	-0.02	-0.003	0.03	0.004
17	-0.03	-0.004	-0.01	-0.001	0.03	0.005
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	-0.03	-0.004	0.05	0.007	0.06	0.008
20	0.01	0.001	0.06	0.009	0.06	0.009
21	0.03	0.004	0.00	0.000	0.03	0.004
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	-0.01	-0.001	0.12	0.017	0.12	0.017
28	0.00	0.000	-0.03	-0.004	0.03	0.004
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.02	0.003	0.00	0.000	0.02	0.003

B-121

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.57	-0.228	-1.48	-0.207	2.12	0.808
2	0.06	0.009	0.07	0.010	0.09	0.018
8	-0.03	-0.004	-0.03	-0.004	0.04	0.006
4	0.00	0.000	-0.01	-0.001	0.01	0.001
5	-0.02	-0.003	0.02	0.003	0.03	0.004
6	0.01	0.001	0.00	0.000	0.01	0.001
7	-0.04	-0.006	0.00	0.000	0.04	0.006
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.02	0.003	-0.03	-0.004	0.04	0.005
12	-0.03	-0.004	-0.01	-0.001	0.03	0.005
18	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	-0.02	-0.003	0.02	0.003	0.03	0.004
16	-0.02	-0.003	0.01	0.001	0.02	0.003
17	-0.04	-0.006	0.02	0.003	0.04	0.006
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.01	0.001	0.02	0.003	0.02	0.003
20	0.04	0.006	0.04	0.006	0.06	0.008
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.03	0.004	0.02	0.003	0.04	0.005
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
80	0.00	0.000	0.00	0.000	0.00	0.000
81	0.00	0.000	-0.01	-0.001	0.01	0.001
82	-0.01	-0.001	-0.01	-0.001	0.01	0.002
88	-0.01	-0.001	0.00	0.000	0.01	0.001
84	-0.01	-0.001	0.00	0.000	0.01	0.001
85	0.03	0.004	0.00	0.000	0.03	0.004

B-122

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 18 RATIO: 0.641 CHORD: 83.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.80	-0.116	-0.88	-0.120	1.15	0.167
2	-0.03	-0.004	0.15	0.022	0.15	0.022
3	-0.03	-0.004	0.08	0.004	0.04	0.006
4	-0.05	-0.007	-0.02	-0.003	0.05	0.008
5	-0.04	-0.006	-0.02	-0.003	0.04	0.006
6	0.00	0.000	-0.04	-0.006	0.04	0.006
7	0.00	0.000	-0.02	-0.003	0.02	0.003
8	0.03	0.004	0.02	0.003	0.04	0.005
9	0.01	0.001	0.01	0.001	0.01	0.002
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	-0.03	-0.004	0.03	0.005
12	-0.03	-0.004	-0.02	-0.003	0.04	0.005
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.02	0.003	-0.01	-0.001	0.02	0.003
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.04	0.006	0.03	0.004	0.05	0.007
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.04	0.006	0.01	0.001	0.04	0.006
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	-0.04	-0.006	-0.01	-0.001	0.04	0.006
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.05	0.007	0.02	0.003	0.05	0.008
28	0.02	0.003	-0.01	-0.001	0.02	0.003
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	-0.03	-0.004	0.00	0.000	0.03	0.004
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.04	0.006	-0.01	-0.001	0.04	0.006

B-123

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.18	0.171	1.89	0.274	2.28	0.823
2	-0.15	-0.022	-0.04	-0.006	0.16	0.023
3	0.37	0.054	-0.08	-0.012	0.88	0.055
4	0.01	0.001	0.02	0.003	0.02	0.003
5	-0.02	-0.008	-0.08	-0.004	0.04	0.005
6	-0.06	-0.009	0.00	0.000	0.06	0.009
7	0.03	0.004	0.00	0.000	0.03	0.004
8	0.01	0.001	-0.03	-0.004	0.03	0.005
9	0.02	0.003	0.05	0.007	0.05	0.008
10	-0.03	-0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.02	0.003	0.01	0.001	0.02	0.003
13	0.01	0.001	-0.03	-0.004	0.03	0.005
14	0.01	0.001	0.00	0.000	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	-0.02	-0.003	0.02	0.003	0.03	0.004
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.02	0.003	-0.01	-0.001	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	-0.03	-0.004	0.01	0.001	0.03	0.005
25	0.03	0.004	0.01	0.001	0.03	0.005
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.02	0.003	0.00	0.000	0.02	0.003
28	-0.01	-0.001	-0.02	-0.003	0.02	0.003
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.01	-0.001	0.01	0.001

B-124

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.09	0.303	2.02	0.293	2.91	0.422
2	-0.10	-0.015	0.24	0.035	0.26	0.038
3	0.31	0.045	-0.09	-0.013	0.32	0.047
4	-0.05	-0.007	-0.03	-0.004	0.06	0.008
5	-0.02	-0.003	-0.04	-0.006	0.04	0.006
6	-0.05	-0.007	0.00	0.000	0.05	0.007
7	-0.01	-0.001	-0.03	-0.004	0.03	0.005
8	-0.03	-0.004	0.00	0.000	0.03	0.004
9	0.02	0.003	0.02	0.003	0.03	0.004
10	-0.04	-0.006	0.04	0.006	0.06	0.008
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	-0.01	-0.001	0.09	0.013	0.09	0.013
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	0.04	0.006	-0.04	-0.006	0.06	0.008
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.04	0.006	0.00	0.000	0.04	0.006
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.01	0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.02	0.003	0.01	0.001	0.02	0.003
27	0.04	0.006	0.02	0.003	0.04	0.006
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.01	-0.001	0.02	0.003	0.02	0.003
30	0.02	0.003	-0.02	-0.003	0.03	0.004
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	-0.02	-0.003	0.01	0.001	0.02	0.003

B-125

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.83	0.410	2.42	0.351	3.72	0.540
2	0.32	0.046	0.91	0.132	0.96	0.140
3	0.63	0.091	-0.85	-0.051	0.72	0.105
4	-0.11	-0.016	-0.07	-0.010	0.18	0.019
5	-0.01	-0.001	-0.03	-0.004	0.03	0.005
6	-0.01	-0.001	0.03	0.004	0.03	0.005
7	0.00	0.000	-0.08	-0.012	0.08	0.012
8	-0.05	-0.007	0.05	0.007	0.07	0.010
9	0.00	0.000	0.02	0.003	0.02	0.003
10	0.01	0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	-0.01	-0.001	0.03	0.004	0.03	0.005
14	0.01	0.001	-0.01	-0.001	0.01	0.002
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.06	-0.009	0.07	0.010	0.09	0.013
20	0.05	0.007	0.02	0.003	0.05	0.008
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	-0.02	-0.003	-0.03	-0.004	0.04	0.005
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.01	0.001	0.01	0.001	0.01	0.002
26	-0.06	-0.009	-0.03	-0.004	0.07	0.010
27	-0.01	-0.001	-0.02	-0.003	0.02	0.003
28	0.00	0.000	-0.02	-0.003	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.02	0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	0.02	0.003	0.02	0.003
35	-0.01	-0.001	0.00	0.000	0.01	0.001

B-126

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 20 RATIO: 0.641 CHORD: 83.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.16	0.168	0.14	0.020	1.17	0.169
2	0.03	0.004	-0.08	-0.012	0.09	0.012
3	0.00	0.000	-0.03	-0.004	0.03	0.004
4	0.02	0.003	-0.01	-0.001	0.02	0.003
5	-0.01	-0.001	-0.03	-0.004	0.03	0.005
6	0.00	0.000	0.01	0.001	0.01	0.001
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	-0.01	-0.001	-0.03	-0.004	0.03	0.005
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.01	0.001	0.02	0.003	0.02	0.003
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.01	0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.03	0.004	0.00	0.000	0.03	0.004
20	0.02	0.003	0.04	0.006	0.04	0.006
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.02	0.003	0.00	0.000	0.02	0.003
28	-0.02	-0.003	-0.01	-0.001	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.02	0.003	0.02	0.003
31	0.02	0.003	0.01	0.001	0.02	0.003
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.04	0.006	0.02	0.003	0.04	0.006
34	-0.02	-0.003	0.00	0.000	0.02	0.003
35	0.01	0.001	-0.01	-0.001	0.01	0.002

B-27

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.58	0.367	1.52	0.220	2.95	0.428
2	-0.01	-0.001	-0.23	-0.033	0.23	0.033
3	0.01	0.001	-0.06	-0.009	0.06	0.009
4	0.02	0.003	0.01	0.001	0.02	0.003
5	0.01	0.001	0.02	0.003	0.02	0.003
6	-0.02	-0.003	-0.01	-0.001	0.02	0.003
7	-0.05	-0.007	-0.02	-0.003	0.05	0.008
8	-0.01	-0.001	0.01	0.001	0.01	0.002
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.02	0.003	0.01	0.001	0.02	0.003
11	0.02	0.003	0.02	0.003	0.03	0.004
12	-0.02	-0.003	0.01	0.001	0.02	0.003
13	-0.01	-0.001	-0.02	-0.003	0.02	0.003
14	-0.03	-0.004	-0.01	-0.001	0.03	0.005
15	0.02	0.003	-0.01	-0.001	0.02	0.003
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.02	-0.003	0.00	0.000	0.02	0.003
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.02	0.003	0.01	0.001	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	0.02	0.003	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	-0.01	-0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	0.01	0.001	0.01	0.002
32	0.01	0.001	0.01	0.001	0.01	0.002
33	0.02	0.003	0.00	0.000	0.02	0.003
34	-0.02	-0.003	-0.01	-0.001	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

B-128

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.861 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	8.08	0.447	2.21	0.321	8.79	0.550
2	0.00	0.009	-0.39	-0.057	0.39	0.057
3	0.05	0.007	-0.03	-0.004	0.06	0.008
4	0.01	0.001	0.08	0.004	0.03	0.005
5	-0.02	-0.003	0.00	0.000	0.02	0.003
6	-0.01	-0.001	-0.01	-0.001	0.01	0.002
7	-0.01	-0.001	-0.02	-0.003	0.02	0.003
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.00	0.000	-0.01	-0.001	0.01	0.001
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.01	0.001	0.01	0.001	0.01	0.002
18	0.02	0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	-0.01	-0.001	-0.01	-0.001	0.01	0.002
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.02	0.003	0.03	0.004	0.04	0.005
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	-0.02	-0.003	0.02	0.003
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	0.02	0.003	-0.02	-0.003	0.03	0.004
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.03	0.004	0.03	0.004

B-129

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	5.77	0.837	4.28	0.618	7.15	1.038
2	0.08	0.012	-0.48	-0.062	0.44	0.063
3	-0.06	-0.009	-0.05	-0.007	0.08	0.011
4	-0.05	-0.007	0.01	0.001	0.05	0.007
5	0.00	0.000	0.02	0.003	0.02	0.003
6	0.01	0.001	-0.03	-0.004	0.03	0.005
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.00	0.000	0.00	0.000	0.00	0.000
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.01	0.001	0.01	0.001	0.01	0.002
14	0.01	0.001	-0.01	-0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	-0.01	-0.001	0.01	0.001	0.01	0.002
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.01	0.001	0.01	0.002
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.01	0.001	-0.02	-0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	-0.05	-0.007	0.01	0.001	0.05	0.007
35	-0.01	-0.001	0.00	0.000	0.01	0.001

B-130

8 DEGREE ANGULAR INFLOW

RUN NUMBER 10

POINT NUMBER: 8
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.361 +/- 0.002
 BLADE ANGLE (DEG): 55.5 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	5.94	0.861	8.93	0.570	7.12	1.033
2	0.05	0.007	-0.83	-0.048	0.33	0.048
3	-0.46	-0.067	0.49	0.071	0.67	0.097
4	0.40	0.058	-0.07	-0.010	0.41	0.059
5	0.19	0.028	0.08	0.012	0.21	0.030
6	-0.18	-0.026	-0.89	-0.057	0.43	0.062
7	-0.06	-0.009	0.06	0.009	0.08	0.012
8	-0.18	-0.026	0.11	0.016	0.21	0.031
9	0.17	0.025	0.02	0.003	0.17	0.025
10	0.06	0.009	0.04	0.006	0.07	0.010
11	-0.01	-0.001	-0.18	-0.026	0.18	0.026
12	-0.04	-0.006	0.00	0.000	0.04	0.006
13	-0.08	-0.012	0.00	0.000	0.08	0.012
14	0.03	0.004	0.05	0.007	0.06	0.008
15	0.00	0.000	0.02	0.003	0.02	0.003
16	0.03	0.004	-0.05	-0.007	0.06	0.008
17	0.02	0.003	0.00	0.000	0.02	0.003
18	-0.01	-0.001	-0.03	-0.004	0.03	0.005
19	-0.01	-0.001	0.01	0.001	0.01	0.002
20	0.06	0.009	0.04	0.006	0.07	0.010
21	-0.03	-0.004	0.01	0.001	0.03	0.005
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.01	0.001	0.01	0.001	0.01	0.002
24	-0.01	-0.001	-0.02	-0.003	0.02	0.003
25	-0.03	-0.004	0.01	0.001	0.03	0.005
26	0.04	0.006	0.00	0.000	0.04	0.006
27	0.03	0.004	0.08	0.004	0.04	0.006
28	0.01	0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.03	0.004	0.03	0.005
31	0.01	0.001	0.01	0.001	0.01	0.002
32	-0.02	-0.003	0.01	0.001	0.02	0.003
33	0.02	0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	0.04	0.006	0.04	0.006
35	0.01	0.001	0.01	0.001	0.01	0.002

B-131

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 2 RATIO: 0.906 CHORD: 29.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.59	-0.231	-2.89	-0.347	2.87	0.416
2	0.00	0.000	-0.01	-0.001	0.01	0.001
8	-0.10	-0.015	0.04	0.006	0.11	0.016
4	-0.02	-0.003	-0.02	-0.003	0.03	0.004
5	-0.05	-0.007	-0.08	-0.004	0.06	0.008
6	0.01	0.001	-0.01	-0.001	0.01	0.002
7	-0.01	-0.001	0.00	0.000	0.01	0.001
8	0.03	0.004	0.00	0.000	0.03	0.004
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	0.00	0.000	0.01	0.001	0.01	0.001
11	-0.02	-0.003	0.02	0.003	0.03	0.004
12	0.01	0.001	-0.02	-0.003	0.02	0.003
18	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.02	-0.003	-0.04	-0.006	0.04	0.006
15	-0.02	-0.003	0.01	0.001	0.02	0.003
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	-0.02	-0.003	-0.01	-0.001	0.02	0.003
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	-0.03	-0.004	0.03	0.005
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.03	0.004	0.02	0.003	0.04	0.005
27	0.07	0.010	0.00	0.000	0.07	0.010
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	-0.02	-0.003	0.02	0.003
80	0.00	0.000	0.00	0.000	0.00	0.000
81	0.00	0.000	-0.01	-0.001	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
88	-0.01	-0.001	0.00	0.000	0.01	0.001
84	0.02	0.003	0.02	0.003	0.03	0.004
85	0.00	0.000	0.00	0.000	0.00	0.000

B-132

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.84	-0.122	-1.15	-0.167	1.42	0.207
2	0.16	0.023	0.18	0.019	0.21	0.030
3	-0.02	-0.003	-0.05	-0.007	0.05	0.003
4	0.04	0.006	-0.05	-0.007	0.06	0.009
5	0.00	0.000	0.00	0.000	0.00	0.000
6	-0.01	-0.001	0.01	0.001	0.01	0.002
7	0.04	0.006	0.05	0.007	0.06	0.009
8	0.00	0.000	0.02	0.003	0.02	0.003
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.04	-0.006	0.02	0.003	0.04	0.006
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.03	-0.004	0.03	0.004
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.02	-0.003	0.02	0.003
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.02	-0.003	-0.01	-0.001	0.02	0.003
25	0.02	0.003	0.00	0.000	0.02	0.003
26	-0.04	-0.006	-0.01	-0.001	0.04	0.006
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.01	0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.07	0.010	0.07	0.010
34	0.02	0.003	0.01	0.001	0.02	0.003
35	0.00	0.000	-0.01	-0.001	0.01	0.001

B-153

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.89	-0.057	-0.72	-0.104	0.82	0.119
2	0.83	0.048	-0.17	-0.025	0.87	0.054
3	-0.08	-0.012	-0.13	-0.019	0.15	0.022
4	-0.03	-0.004	0.05	0.007	0.06	0.008
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	0.00	0.000	-0.01	-0.001	0.01	0.001
7	-0.08	-0.004	-0.02	-0.003	0.04	0.005
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.03	0.004	-0.01	-0.001	0.03	0.005
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.01	0.001	0.02	0.003	0.02	0.003
13	-0.02	-0.003	-0.01	-0.001	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	-0.02	-0.003	0.02	0.003
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.00	0.000	0.02	0.003	0.02	0.003
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.01	0.001	0.01	0.002
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	-0.03	-0.004	0.03	0.005
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.05	0.007	0.05	0.007
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.02	0.003	0.01	0.001	0.02	0.003

7124

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.73	-0.106	-0.87	-0.126	1.14	0.165
2	-0.23	-0.033	0.23	0.033	0.33	0.047
8	0.08	0.012	0.05	0.007	0.09	0.014
4	-0.03	-0.004	0.02	0.003	0.04	0.005
5	0.02	0.003	0.04	0.006	0.04	0.006
6	0.00	0.000	-0.03	-0.004	0.03	0.004
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	-0.03	-0.004	0.00	0.000	0.03	0.004
10	0.00	0.000	0.01	0.001	0.01	0.001
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.01	0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

B-135

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-8.31	-0.480	-8.78	-0.548	5.02	0.729
2	0.01	0.001	0.05	0.007	0.05	0.007
3	-0.06	-0.009	0.04	0.006	0.07	0.010
4	0.01	0.001	0.00	0.000	0.01	0.001
5	0.01	0.001	-0.02	-0.003	0.02	0.003
6	-0.01	-0.001	-0.01	-0.001	0.01	0.002
7	0.05	0.007	-0.03	-0.004	0.06	0.008
8	-0.02	-0.003	0.00	0.000	0.02	0.003
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.00	0.000	0.02	0.003	0.02	0.003
11	0.00	0.000	0.03	0.004	0.03	0.004
12	0.02	0.003	-0.01	-0.001	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.02	0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.02	0.003	0.00	0.000	0.02	0.003
30	0.02	0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.01	0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.01	0.001	0.00	0.000	0.01	0.001

B-136

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 28.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.96	-0.429	-8.65	-0.529	4.70	0.682
2	0.00	0.000	0.11	0.016	0.11	0.016
8	-0.05	-0.007	0.02	0.008	0.05	0.008
4	0.02	0.003	-0.01	-0.001	0.02	0.003
5	0.00	0.000	-0.02	-0.003	0.02	0.003
6	0.01	0.001	0.00	0.000	0.01	0.001
7	0.08	0.012	-0.08	-0.004	0.09	0.012
8	-0.03	-0.004	-0.01	-0.001	0.03	0.005
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.01	0.001	0.02	0.003	0.02	0.003
12	0.02	0.003	0.02	-0.003	0.03	0.004
18	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.03	-0.004	0.04	0.006	0.05	0.007
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	0.01	0.001	0.01	0.001
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.03	0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.02	0.003	0.02	0.003
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.02	0.003	0.02	0.003
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	-0.04	-0.006	0.04	0.006
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
80	0.00	0.000	-0.02	-0.003	0.02	0.003
81	0.02	0.003	0.02	0.003	0.03	0.004
82	0.01	0.001	0.00	0.000	0.01	0.001
88	0.00	0.000	-0.01	-0.001	0.01	0.001
84	0.00	0.000	0.02	0.003	0.02	0.003
85	0.00	0.000	-0.03	-0.004	0.03	0.004

B-137

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.08	-0.294	-2.57	-0.378	3.28	0.475
2	-0.02	-0.003	0.09	0.013	0.09	0.013
3	-0.01	-0.001	-0.02	-0.003	0.02	0.003
4	0.01	0.001	-0.01	-0.001	0.01	0.002
5	-0.02	-0.003	-0.04	-0.006	0.04	0.006
6	0.01	0.001	-0.02	-0.003	0.02	0.003
7	-0.03	-0.004	-0.08	-0.012	0.09	0.012
8	-0.01	-0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	0.01	0.001	0.01	0.002
10	0.03	0.004	0.00	0.000	0.03	0.004
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	-0.03	-0.004	0.03	0.004
13	0.00	0.000	0.03	0.004	0.03	0.004
14	0.01	0.001	0.05	0.007	0.05	0.007
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.03	0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.02	0.003	0.02	0.003
25	0.02	0.003	0.02	0.003	0.03	0.004
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.04	0.006	0.04	0.006
28	-0.02	-0.003	0.01	0.001	0.02	0.003
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.02	-0.003	0.00	0.000	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

B-138

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 11 RATIO: 0.641 CHORD: 50.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.74	-0.252	-2.05	-0.297	2.69	0.390
2	0.04	0.006	0.07	0.010	0.08	0.012
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
4	-0.01	-0.001	-0.03	-0.004	0.03	0.005
5	-0.02	-0.003	-0.01	-0.001	0.02	0.003
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.05	0.007	0.05	0.007	0.07	0.010
8	0.00	0.000	-0.01	-0.001	0.01	0.001
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	0.00	0.000	-0.01	-0.001	0.01	0.001
11	0.01	0.001	0.00	0.000	0.01	0.001
12	-0.02	-0.003	-0.01	-0.001	0.02	0.003
13	-0.01	-0.001	0.02	0.003	0.02	0.003
14	0.01	0.001	-0.03	-0.004	0.03	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.03	0.004	0.00	0.000	0.03	0.004
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.02	-0.003	-0.04	-0.006	0.04	0.006
21	0.00	0.000	-0.03	-0.004	0.03	0.004
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.02	0.003	0.02	0.003	0.03	0.004
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.03	-0.004	0.01	0.001	0.03	0.005
27	-0.03	-0.012	0.06	0.009	0.10	0.015
28	-0.03	-0.004	-0.01	-0.001	0.03	0.005
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.02	0.003	0.02	0.003

B-139

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.55	-0.225	-1.72	-0.249	2.32	0.336
2	0.12	0.017	0.08	0.012	0.14	0.021
3	-0.02	-0.003	-0.03	-0.004	0.04	0.005
4	-0.02	-0.003	-0.01	-0.001	0.02	0.003
5	-0.02	-0.003	-0.02	-0.003	0.03	0.004
6	0.02	0.003	0.03	0.004	0.04	0.005
7	0.02	0.003	0.06	0.009	0.06	0.009
8	-0.02	-0.003	-0.02	-0.003	0.03	0.004
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.01	0.001	0.00	0.000	0.01	0.001
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.01	0.001	0.00	0.000	0.01	0.001
13	-0.03	-0.004	0.01	0.001	0.03	0.005
14	0.02	0.003	0.02	0.003	0.03	0.004
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.01	0.001	0.02	0.003	0.02	0.003
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.03	0.004	-0.01	-0.001	0.03	0.005
20	-0.04	-0.006	-0.02	-0.003	0.04	0.006
21	0.00	0.000	-0.04	-0.006	0.04	0.006
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.02	0.003	0.02	0.003
27	0.01	0.001	0.02	0.003	0.02	0.003
28	0.02	0.003	0.00	0.000	0.02	0.003
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	-0.06	-0.009	0.06	0.009
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.02	0.003	0.02	0.003
35	0.01	0.001	0.00	0.000	0.01	0.001

P-1/D

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 13 RATIO: 0.641 CHORD: 83.3 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.86	-0.125	-0.97	-0.141	1.30	0.188
2	-0.02	-0.003	0.06	0.009	0.06	0.009
3	-0.05	-0.007	0.01	0.001	0.05	0.007
4	-0.02	-0.003	-0.04	-0.006	0.04	0.006
5	-0.02	-0.003	-0.05	-0.007	0.05	0.008
6	0.02	0.003	-0.01	-0.001	0.02	0.003
7	0.03	0.004	-0.01	-0.001	0.03	0.005
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.01	0.001	0.02	0.003	0.02	0.003
14	0.01	0.001	-0.02	-0.003	0.02	0.003
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	0.00	0.000	-0.01	-0.001	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.02	0.003	0.01	0.001	0.02	0.003
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	-0.02	-0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	0.01	0.001	0.01	0.001	0.01	0.002
27	-0.06	-0.009	-0.03	-0.004	0.07	0.010
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	-0.02	-0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.01	0.001	0.01	0.002
33	0.02	0.003	-0.01	-0.001	0.02	0.003
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

B/41

3 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.18	0.309	2.09	0.303	2.98	0.433
2	0.52	0.075	-1.97	-0.286	2.04	0.295
3	-0.60	-0.087	-0.18	-0.026	0.63	0.091
4	-0.22	-0.032	0.78	0.113	0.81	0.118
5	0.53	0.077	-0.07	-0.010	0.53	0.078
6	-0.18	-0.026	-0.34	-0.049	0.38	0.056
7	-0.02	-0.003	0.22	0.032	0.22	0.032
8	0.05	0.007	0.04	0.006	0.06	0.009
9	-0.01	-0.001	0.08	0.012	0.08	0.012
10	0.07	0.010	-0.09	-0.013	0.11	0.017
11	-0.10	-0.015	0.00	0.000	0.10	0.015
12	0.11	0.016	-0.01	-0.001	0.11	0.016
13	-0.11	-0.016	-0.03	-0.004	0.11	0.017
14	0.04	0.006	0.16	0.023	0.16	0.024
15	0.09	0.013	-0.11	-0.016	0.14	0.021
16	-0.11	-0.016	-0.06	-0.009	0.13	0.018
17	0.01	0.001	0.09	0.013	0.09	0.013
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.05	0.007	0.00	0.000	0.05	0.007
20	-0.02	-0.003	-0.13	-0.019	0.13	0.019
21	-0.10	-0.015	0.10	0.015	0.14	0.021
22	0.13	0.019	0.02	0.003	0.13	0.019
23	-0.04	-0.006	-0.05	-0.007	0.06	0.009
24	0.01	0.001	0.05	0.007	0.05	0.007
25	0.00	0.000	-0.05	-0.007	0.05	0.007
26	0.00	0.000	0.04	0.006	0.04	0.006
27	0.05	0.007	0.00	0.000	0.05	0.007
28	-0.03	-0.004	-0.04	-0.006	0.05	0.007
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.02	0.003	0.01	0.001	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.02	-0.003	0.01	0.001	0.02	0.003
34	0.04	0.006	0.00	0.000	0.04	0.006
35	-0.01	-0.001	-0.03	-0.004	0.03	0.005

B-142

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	4.18	0.599	3.58	0.519	5.47	0.798
2	0.61	0.088	-3.60	-0.522	3.65	0.530
3	-2.01	-0.292	0.59	0.086	2.09	0.304
4	0.89	0.129	1.07	0.155	1.39	0.202
5	0.40	0.058	-0.62	-0.090	0.74	0.107
6	-0.29	-0.042	-0.25	-0.036	0.38	0.056
7	-0.18	-0.019	0.19	0.028	0.28	0.033
8	0.21	0.030	0.14	0.020	0.25	0.037
9	0.10	0.015	-0.12	-0.017	0.16	0.023
10	-0.13	-0.019	-0.10	-0.015	0.16	0.024
11	-0.02	-0.003	0.12	0.017	0.12	0.018
12	-0.01	-0.001	-0.08	-0.012	0.08	0.012
13	-0.02	-0.003	0.16	0.023	0.16	0.023
14	0.19	0.028	-0.06	-0.009	0.20	0.029
15	-0.16	-0.023	-0.12	-0.017	0.20	0.029
16	-0.12	-0.017	0.10	0.015	0.16	0.023
17	0.11	0.016	0.00	0.000	0.11	0.016
18	0.01	0.001	-0.04	-0.006	0.04	0.006
19	-0.10	-0.015	0.01	0.001	0.10	0.015
20	-0.08	-0.012	0.09	0.013	0.12	0.017
21	0.18	0.019	0.03	0.004	0.13	0.019
22	0.00	0.000	-0.14	-0.020	0.14	0.020
23	-0.11	-0.016	0.02	0.003	0.11	0.016
24	0.05	0.007	0.05	0.007	0.07	0.010
25	0.02	0.003	-0.01	-0.001	0.02	0.003
26	-0.02	-0.003	-0.05	-0.007	0.05	0.008
27	-0.04	-0.006	0.04	0.006	0.06	0.008
28	0.04	0.006	0.03	0.004	0.05	0.007
29	0.01	0.001	0.01	0.001	0.01	0.002
30	-0.03	-0.004	-0.02	-0.003	0.04	0.005
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	-0.02	-0.003	0.01	0.001	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

7-75

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	8.99	1.304	9.73	1.411	13.25	1.921
2	2.44	0.354	-10.60	-1.537	10.88	1.578
3	-5.16	-0.748	2.16	0.313	5.59	0.811
4	1.46	0.212	0.76	0.110	1.65	0.239
5	0.44	0.064	0.69	0.100	0.82	0.119
6	1.00	0.145	-1.96	-0.284	2.20	0.319
7	-1.85	-0.268	0.03	0.004	1.85	0.268
8	0.83	0.048	0.75	0.109	0.82	0.119
9	0.02	0.003	0.35	0.051	0.35	0.051
10	0.78	0.113	-0.17	-0.025	0.80	0.116
11	-0.31	-0.045	-0.40	-0.058	0.51	0.073
12	0.01	0.001	0.15	0.022	0.15	0.022
13	0.09	0.013	-0.01	-0.001	0.09	0.013
14	-0.02	-0.003	-0.24	-0.035	0.24	0.035
15	-0.24	-0.035	0.00	0.000	0.24	0.035
16	-0.13	-0.019	0.21	0.030	0.25	0.036
17	0.23	0.033	0.30	0.044	0.38	0.055
18	0.21	0.030	-0.25	-0.036	0.33	0.047
19	-0.14	-0.020	-0.04	-0.006	0.15	0.021
20	0.07	0.010	-0.12	-0.017	0.14	0.020
21	-0.27	-0.039	0.03	0.004	0.27	0.039
22	0.14	0.020	0.04	0.006	0.15	0.021
23	-0.24	-0.035	-0.03	-0.004	0.24	0.035
24	0.17	0.025	0.29	0.042	0.34	0.049
25	0.13	0.019	-0.21	-0.030	0.25	0.036
26	-0.02	-0.003	0.09	0.013	0.09	0.013
27	0.04	0.006	-0.19	-0.028	0.19	0.028
28	-0.21	-0.030	0.00	0.000	0.21	0.030
29	0.05	0.007	0.02	0.003	0.05	0.008
30	-0.13	-0.019	-0.04	-0.006	0.14	0.020
31	0.03	0.004	0.13	0.019	0.13	0.019
32	0.08	0.012	-0.01	-0.001	0.08	0.012
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.10	0.015	-0.02	-0.003	0.10	0.015
35	-0.08	-0.004	-0.05	-0.007	0.06	0.008

P-114

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 88.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.18	0.164	0.24	0.035	1.16	0.168
2	0.00	0.000	-0.02	-0.003	0.02	0.003
3	0.01	0.001	0.00	0.000	0.01	0.001
4	-0.01	-0.001	0.02	0.003	0.02	0.003
5	0.04	0.006	-0.01	-0.001	0.04	0.006
6	0.00	0.000	0.00	0.000	0.00	0.000
7	0.01	0.001	0.05	0.007	0.05	0.007
8	0.01	0.001	0.00	0.000	0.01	0.001
9	-0.02	-0.003	0.00	0.000	0.02	0.003
10	0.01	0.001	-0.01	-0.001	0.01	0.002
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.00	0.000	0.01	0.001	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.01	0.001	0.00	0.000	0.01	0.001
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.01	0.001	0.01	0.001	0.01	0.002
20	-0.02	-0.003	0.01	0.001	0.02	0.003
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	0.01	0.001	0.01	0.001	0.01	0.002
23	-0.02	-0.003	0.00	0.000	0.02	0.003
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.04	-0.006	0.01	0.001	0.04	0.006
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.03	0.004	0.00	0.000	0.03	0.004
30	0.01	0.001	-0.01	-0.001	0.01	0.002
31	-0.03	-0.004	0.00	0.000	0.03	0.004
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.02	0.003	0.01	0.001	0.02	0.003
35	-0.01	-0.001	0.01	0.001	0.01	0.002

B-145

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.64	0.383	2.49	0.361	3.68	0.526
2	0.10	0.015	-0.32	-0.046	0.34	0.049
3	0.02	0.003	-0.03	-0.004	0.04	0.005
4	-0.03	-0.004	0.08	0.004	0.04	0.006
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	-0.03	-0.004	0.00	0.000	0.03	0.004
7	-0.02	-0.003	-0.06	-0.009	0.06	0.009
8	-0.01	-0.001	0.01	0.001	0.01	0.002
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.00	0.000	0.04	0.006	0.04	0.006
11	0.04	0.006	-0.02	-0.003	0.04	0.006
12	-0.01	-0.001	-0.01	-0.001	0.01	0.002
13	0.03	0.004	-0.01	-0.001	0.03	0.005
14	0.02	0.003	0.02	0.003	0.03	0.004
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.03	-0.004	0.01	0.001	0.03	0.005
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	-0.03	-0.004	0.03	0.005
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	-0.01	-0.001	0.01	0.001	0.01	0.002
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.02	0.003	-0.04	-0.006	0.04	0.006
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

B-140

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	3.27	0.474	3.62	0.525	4.88	0.708
2	0.21	0.030	-0.49	-0.071	0.53	0.077
3	0.06	0.009	-0.01	-0.001	0.06	0.009
4	-0.07	-0.010	0.06	0.007	0.09	0.012
5	-0.06	-0.009	-0.01	-0.001	0.06	0.009
6	-0.02	-0.003	0.01	0.001	0.02	0.003
7	0.06	0.009	-0.02	-0.003	0.06	0.009
8	0.02	0.003	0.04	0.006	0.04	0.006
9	0.00	0.000	0.01	0.001	0.01	0.001
10	0.03	0.004	0.01	0.001	0.03	0.005
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.02	-0.003	0.00	0.000	0.02	0.003
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	-0.02	-0.003	0.01	0.001	0.02	0.003
15	0.02	0.003	0.00	0.000	0.02	0.003
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	-0.04	-0.006	0.04	0.006
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.01	0.001	0.02	0.003	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.01	0.001	0.02	0.003	0.02	0.003
28	0.01	0.001	0.03	0.004	0.03	0.005
29	0.01	0.001	-0.03	-0.004	0.03	0.005
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.03	0.004	0.00	0.000	0.03	0.004
32	0.01	0.001	0.01	0.001	0.01	0.002
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

B-147

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.003
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1193 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	6.12	0.888	6.88	0.991	9.17	1.330
2	0.26	0.038	-0.38	-0.055	0.46	0.067
3	0.05	0.007	-0.12	-0.017	0.13	0.019
4	-0.14	-0.020	-0.05	-0.007	0.15	0.022
5	-0.03	-0.004	0.09	0.013	0.09	0.014
6	0.09	0.013	0.01	0.001	0.09	0.013
7	-0.03	-0.004	0.01	0.001	0.03	0.005
8	0.00	0.000	0.03	0.004	0.03	0.004
9	-0.03	-0.004	-0.01	-0.001	0.03	0.005
10	0.05	0.007	0.03	0.004	0.06	0.008
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.04	-0.006	0.00	0.000	0.04	0.006
13	-0.03	-0.004	0.00	0.000	0.03	0.004
14	0.03	0.004	0.02	0.003	0.04	0.005
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.01	0.001	0.01	0.001
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.01	0.001	0.00	0.000	0.01	0.001
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.04	0.006	0.03	0.004	0.05	0.007
30	0.01	0.001	0.00	0.000	0.01	0.001
31	-0.03	-0.004	0.00	0.000	0.03	0.004
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.01	0.001	0.02	0.003	0.02	0.003
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.02	-0.003	0.00	0.000	0.02	0.003

B-148

8 DEGREE ANGULAR INFLOW

RUN NUMBER 11

POINT NUMBER: 7
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.649 +/- 0.008
 BLADE ANGLE (DEG): 59.4 +/- 0.5
 ROTOR SPEED (RPM): 1198 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	9.71	1.408	9.97	1.446	18.92	2.018
2	0.63	0.091	-2.80	-0.406	2.87	0.416
3	-0.86	-0.125	0.08	0.012	0.86	0.125
4	0.83	0.120	0.14	0.020	0.84	0.122
5	0.23	0.033	0.07	0.010	0.24	0.035
6	0.18	0.026	0.12	0.017	0.22	0.031
7	-0.10	-0.015	0.09	0.013	0.18	0.020
8	0.07	0.010	0.02	0.003	0.07	0.011
9	0.07	0.010	0.04	0.006	0.08	0.012
10	0.06	0.009	0.02	0.003	0.06	0.009
11	-0.04	-0.006	0.02	0.003	0.04	0.006
12	-0.03	-0.004	0.05	0.007	0.06	0.008
13	0.06	0.009	-0.01	-0.001	0.06	0.009
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.04	0.006	0.04	0.006
16	0.02	0.003	0.05	0.007	0.05	0.008
17	-0.05	-0.007	-0.03	-0.004	0.06	0.008
18	0.03	0.004	0.02	0.003	0.04	0.005
19	0.02	0.003	-0.02	-0.003	0.03	0.004
20	-0.06	-0.009	-0.03	-0.004	0.07	0.010
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.03	0.004	0.01	0.001	0.03	0.005
23	-0.04	-0.006	-0.05	-0.007	0.06	0.009
24	0.06	0.009	0.06	0.009	0.08	0.012
25	0.02	0.003	-0.02	-0.003	0.03	0.004
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.05	0.007	0.05	0.007
28	0.02	0.003	-0.01	-0.001	0.02	0.003
29	0.01	0.001	0.02	0.003	0.02	0.003
30	0.02	0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.06	0.009	0.06	0.009
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.01	-0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

B-149

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-8.26	-0.473	-4.03	-0.584	5.18	0.752
2	0.33	0.048	-0.43	-0.062	0.54	0.079
8	-0.88	-0.048	0.17	0.025	0.87	0.054
4	-0.17	-0.025	-0.06	-0.009	0.18	0.026
5	-0.07	-0.010	0.11	0.016	0.18	0.019
6	0.00	0.000	0.03	0.004	0.08	0.004
7	0.08	0.012	0.09	0.013	0.12	0.017
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	-0.02	-0.003	0.04	0.006	0.04	0.006
10	-0.02	-0.003	0.04	0.006	0.04	0.006
11	-0.03	-0.004	-0.04	-0.006	0.05	0.007
12	0.01	0.001	-0.03	-0.004	0.03	0.005
13	0.01	0.001	-0.02	-0.003	0.02	0.003
14	0.00	0.000	-0.03	-0.004	0.03	0.004
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.02	0.003	-0.04	-0.006	0.04	0.006
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.04	0.006	0.00	0.000	0.04	0.006
24	-0.01	-0.001	-0.02	-0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.01	0.001	0.03	0.004	0.03	0.005
30	-0.01	-0.001	0.02	0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.02	0.003	0.01	0.001	0.02	0.003
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.02	-0.003	0.01	0.001	0.02	0.003

B-150

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.04	-0.151	-1.26	-0.188	1.68	0.237
2	-0.01	-0.001	-0.34	-0.049	0.84	0.049
3	-0.36	-0.052	0.28	0.041	0.46	0.066
4	-0.08	-0.012	0.03	0.004	0.09	0.012
5	0.08	0.012	0.07	0.010	0.11	0.015
6	0.04	0.006	0.01	0.001	0.04	0.006
7	0.03	0.004	0.08	0.012	0.09	0.012
8	-0.01	-0.001	-0.07	-0.010	0.07	0.010
9	-0.03	-0.004	0.00	0.000	0.03	0.004
10	-0.03	-0.004	-0.01	-0.001	0.03	0.005
11	0.02	0.003	-0.02	-0.003	0.03	0.004
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.00	0.000	-0.03	-0.004	0.03	0.004
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.01	0.001	0.01	0.001	0.01	0.002
17	-0.01	-0.001	0.01	0.001	0.01	0.002
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	-0.01	-0.001	0.02	0.003	0.02	0.003
22	-0.02	-0.003	0.01	0.001	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.02	0.003	-0.02	-0.003	0.03	0.004
28	-0.01	-0.001	-0.02	-0.003	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.01	-0.001	-0.02	-0.003	0.02	0.003
32	0.01	0.001	0.01	0.001	0.01	0.002
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	-0.03	-0.004	0.03	0.005

B-151

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.68	-0.099	-0.84	-0.122	1.08	0.157
2	0.00	0.000	-0.49	-0.071	0.49	0.071
8	-0.22	-0.082	0.12	0.017	0.25	0.036
4	-0.15	-0.022	0.06	0.009	0.16	0.023
5	0.10	0.015	0.06	0.009	0.12	0.017
6	0.06	0.009	-0.04	-0.006	0.07	0.010
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.00	0.000	-0.02	-0.003	0.02	0.003
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	-0.03	-0.004	0.00	0.000	0.03	0.004
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.02	-0.003	0.00	0.000	0.02	0.003
18	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	-0.02	-0.003	0.02	0.003
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	0.03	0.004	-0.02	-0.003	0.04	0.005
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.01	0.001	0.01	0.002
19	-0.01	-0.001	0.02	0.003	0.02	0.003
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.01	0.001	-0.02	-0.003	0.02	0.003
28	-0.03	-0.004	-0.02	-0.003	0.04	0.005
29	0.01	0.001	0.00	0.000	0.01	0.001
80	0.02	0.003	0.01	0.001	0.02	0.003
81	0.00	0.000	-0.03	-0.004	0.03	0.004
82	-0.01	-0.001	0.00	0.000	0.01	0.001
88	0.00	0.000	0.00	0.000	0.00	0.000
84	0.01	0.001	0.00	0.000	0.01	0.001
85	-0.01	-0.001	0.00	0.000	0.01	0.001

B-152

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 7 RATIO: 0.641 CHORD: 4.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.85	-0.196	-2.00	-0.290	2.41	0.350
2	-0.25	-0.036	-0.18	-0.026	0.31	0.045
3	0.02	0.003	0.31	0.045	0.31	0.045
4	-0.03	-0.004	-0.13	-0.019	0.13	0.019
5	0.05	0.007	0.28	0.041	0.28	0.041
6	0.00	0.000	-0.08	-0.012	0.08	0.012
7	0.03	0.004	0.09	0.013	0.09	0.014
8	0.03	0.004	-0.06	-0.009	0.07	0.010
9	0.00	0.000	0.00	0.000	0.00	0.000
10	-0.01	-0.001	-0.03	-0.004	0.03	0.005
11	0.00	0.000	0.04	0.006	0.04	0.006
12	0.02	0.003	0.00	0.000	0.02	0.003
13	0.02	0.003	0.00	0.000	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.02	0.003	-0.03	-0.004	0.04	0.005
16	-0.03	-0.004	-0.01	-0.001	0.03	0.005
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.02	0.003	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	-0.03	-0.004	0.01	0.001	0.03	0.005
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.03	0.004	0.03	0.004
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

B-153

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-4.25	-0.616	-5.16	-0.748	6.68	0.970
2	0.04	0.006	0.85	0.051	0.35	0.051
8	-0.24	-0.035	-0.02	-0.003	0.24	0.035
4	0.01	0.001	0.04	0.006	0.04	0.006
5	0.11	0.016	0.15	0.022	0.19	0.027
6	-0.04	-0.006	-0.04	-0.006	0.06	0.008
7	-0.02	-0.003	0.00	0.000	0.02	0.003
8	-0.01	-0.001	0.01	0.001	0.01	0.002
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	0.00	0.000	0.00	0.000	0.00	0.000
11	-0.04	-0.006	0.00	0.000	0.04	0.006
12	0.03	0.004	-0.03	-0.004	0.04	0.006
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.02	0.003	-0.03	-0.004	0.04	0.005
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	-0.03	-0.004	0.00	0.000	0.03	0.004
22	0.00	0.000	0.00	0.000	0.00	0.000
28	0.02	0.003	0.00	0.000	0.02	0.003
24	0.02	0.003	0.00	0.000	0.02	0.003
25	0.01	0.001	0.01	0.001	0.01	0.002
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.01	0.001	0.01	0.001
29	-0.01	-0.001	0.01	0.001	0.01	0.002
80	0.00	0.000	0.00	0.000	0.00	0.000
81	0.00	0.000	0.00	0.000	0.00	0.000
82	0.01	0.001	0.00	0.000	0.01	0.001
88	0.01	0.001	-0.01	-0.001	0.01	0.002
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	0.01	0.001	0.01	0.001

B-154

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-3.14	-0.455	-4.05	-0.587	5.12	0.743
2	0.01	0.001	-0.07	-0.010	0.07	0.010
3	-0.18	-0.019	0.01	0.001	0.18	0.019
4	-0.02	-0.003	0.00	0.000	0.02	0.003
5	0.10	0.015	0.16	0.023	0.19	0.027
6	-0.03	-0.004	-0.04	-0.006	0.05	0.007
7	0.00	0.000	0.02	0.003	0.02	0.003
8	0.00	0.000	0.01	0.001	0.01	0.001
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.04	0.006	-0.01	-0.001	0.04	0.006
11	-0.03	-0.004	0.00	0.000	0.03	0.004
12	0.01	0.001	-0.02	-0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	-0.04	-0.006	-0.01	-0.001	0.04	0.006
16	-0.01	-0.001	-0.02	-0.003	0.02	0.003
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.02	-0.003	0.03	0.004	0.04	0.005
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.02	-0.003	0.01	0.001	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.03	0.004	-0.01	-0.001	0.03	0.005
24	0.02	0.003	-0.04	-0.006	0.04	0.006
25	0.00	0.000	-0.04	-0.006	0.04	0.006
26	0.02	0.003	-0.02	-0.003	0.03	0.004
27	0.00	0.000	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

B-155

3 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-2.05	-0.297	-2.91	-0.422	3.56	0.516
2	0.13	0.019	-0.01	-0.001	0.13	0.019
3	-0.16	-0.023	0.02	0.003	0.16	0.023
4	-0.03	-0.004	0.00	0.000	0.03	0.004
5	0.16	0.023	0.13	0.019	0.21	0.030
6	-0.04	-0.006	0.01	0.001	0.04	0.006
7	-0.03	-0.004	0.07	0.010	0.08	0.011
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.01	0.001	-0.05	-0.007	0.05	0.007
11	-0.06	-0.009	0.02	0.003	0.06	0.009
12	0.02	0.003	-0.03	-0.004	0.04	0.005
13	0.00	0.000	-0.03	-0.004	0.03	0.004
14	-0.03	-0.004	0.00	0.000	0.03	0.004
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	-0.03	-0.004	0.01	0.001	0.03	0.005
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	0.03	0.004	0.03	0.005
20	0.03	0.004	0.00	0.000	0.03	0.004
21	-0.02	-0.003	0.00	0.000	0.02	0.003
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.01	0.001	0.02	0.003	0.02	0.003
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.02	-0.003	-0.01	-0.001	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	0.02	0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	-0.01	-0.001	0.00	0.000	0.01	0.001

E-156

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.74	-0.252	-2.29	-0.382	2.88	0.417
2	0.10	0.015	-0.15	-0.022	0.18	0.026
3	-0.11	-0.016	0.05	0.007	0.12	0.018
4	-0.04	-0.006	-0.01	-0.001	0.04	0.006
5	0.13	0.019	0.10	0.015	0.16	0.024
6	0.00	0.000	0.05	0.007	0.05	0.007
7	0.01	0.001	0.02	0.003	0.02	0.003
8	0.01	0.001	-0.03	-0.004	0.03	0.005
9	0.01	0.001	0.02	0.003	0.02	0.003
10	-0.03	-0.004	-0.03	-0.004	0.04	0.006
11	-0.01	-0.001	0.03	0.004	0.03	0.005
12	-0.01	-0.001	0.00	0.000	0.01	0.001
13	-0.03	-0.004	-0.01	-0.001	0.03	0.005
14	-0.01	-0.001	0.02	0.003	0.02	0.003
15	0.04	0.006	-0.06	-0.009	0.07	0.010
16	0.02	0.003	0.03	0.004	0.04	0.005
17	0.05	0.007	0.02	0.003	0.05	0.008
18	0.02	0.003	-0.06	-0.009	0.06	0.009
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.04	0.006	0.01	0.001	0.04	0.006
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.04	0.006	0.08	0.012	0.09	0.013
24	0.04	0.006	0.01	0.001	0.04	0.006
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.02	0.003	0.02	0.003	0.03	0.004
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.01	0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	0.00	0.000	-0.03	-0.004	0.03	0.004
35	0.02	0.003	0.00	0.000	0.02	0.003

B-151

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-1.82	-0.191	-1.88	-0.273	2.80	0.333
2	0.05	0.007	-0.20	-0.029	0.21	0.030
8	-0.09	-0.013	0.12	0.017	0.15	0.022
4	-0.05	-0.007	0.00	0.000	0.05	0.007
5	0.18	0.019	0.08	0.012	0.15	0.022
6	0.00	0.000	0.04	0.006	0.04	0.006
7	0.01	0.001	0.01	0.001	0.01	0.002
8	0.00	0.000	-0.04	-0.006	0.04	0.006
9	0.00	0.000	0.02	0.003	0.02	0.003
10	-0.06	-0.009	-0.03	-0.004	0.07	0.010
11	0.02	0.003	0.03	0.004	0.04	0.005
12	-0.01	-0.001	0.01	0.001	0.01	0.002
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.01	0.001	0.01	0.001
15	0.03	0.004	-0.04	-0.006	0.05	0.007
16	0.01	0.001	0.02	0.003	0.02	0.003
17	0.05	0.007	0.04	0.006	0.06	0.009
18	0.03	0.004	-0.05	-0.007	0.06	0.008
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.03	0.004	0.00	0.000	0.03	0.004
21	0.03	0.004	0.00	0.000	0.03	0.004
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
23	0.03	0.004	0.06	0.009	0.07	0.010
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.01	0.001	0.01	0.001
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.02	0.003	0.02	0.003
35	0.00	0.000	-0.02	-0.003	0.02	0.003

B-158

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.77	-0.112	-1.06	-0.154	1.31	0.190
2	0.05	0.007	0.02	0.003	0.05	0.008
3	-0.07	-0.010	0.21	0.030	0.22	0.032
4	-0.11	-0.016	-0.01	-0.001	0.11	0.016
5	0.17	0.025	-0.04	-0.006	0.17	0.025
6	0.03	0.004	-0.02	-0.003	0.04	0.005
7	0.10	0.015	0.04	0.006	0.11	0.016
8	0.02	0.003	-0.02	-0.003	0.03	0.004
9	-0.01	-0.001	0.00	0.000	0.01	0.001
10	-0.08	-0.012	0.03	0.004	0.09	0.012
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	-0.01	-0.001	-0.04	-0.006	0.04	0.006
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.02	0.003	0.05	0.007	0.05	0.008
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.03	-0.004	0.00	0.000	0.03	0.004
17	0.05	0.007	0.07	0.010	0.09	0.012
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.06	-0.009	0.00	0.000	0.06	0.009
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.02	0.003	-0.02	-0.003	0.03	0.004
26	-0.02	-0.003	0.01	0.001	0.02	0.003
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.02	0.003	-0.01	-0.001	0.02	0.003
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.02	0.003	0.02	0.003

B-157

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 3.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.42	0.206	2.98	0.425	3.26	0.472
2	0.29	0.042	-0.34	-0.049	0.45	0.065
3	0.19	0.028	0.04	0.006	0.19	0.028
4	0.09	0.013	0.15	0.022	0.17	0.025
5	-0.01	-0.001	-0.15	-0.022	0.15	0.022
6	-0.03	-0.004	0.00	0.000	0.03	0.004
7	0.02	0.003	-0.01	-0.001	0.02	0.003
8	0.04	0.006	-0.01	-0.001	0.04	0.006
9	0.05	0.007	0.00	0.000	0.05	0.007
10	0.01	0.001	0.02	0.003	0.02	0.003
11	0.00	0.000	-0.02	-0.003	0.02	0.003
12	-0.01	-0.001	0.00	0.000	0.01	0.001
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.01	0.001	0.02	0.003	0.02	0.003
15	0.03	0.004	-0.02	-0.003	0.04	0.005
16	-0.02	-0.003	-0.02	-0.003	0.03	0.004
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.02	0.003	0.00	0.000	0.02	0.003
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.03	-0.004	0.00	0.000	0.03	0.004
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.00	0.000	0.01	0.001
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-160

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 58.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.87	0.344	8.48	0.497	4.17	0.605
2	0.51	0.074	0.18	0.019	0.53	0.076
3	0.10	0.015	-0.02	-0.003	0.10	0.015
4	0.12	0.017	-0.02	-0.003	0.12	0.018
5	0.08	0.012	-0.08	-0.012	0.11	0.016
6	-0.02	-0.003	0.04	0.006	0.04	0.006
7	0.00	0.000	0.07	0.010	0.07	0.010
8	-0.08	-0.004	0.01	0.001	0.08	0.005
9	-0.08	-0.004	-0.01	-0.001	0.08	0.005
10	-0.01	-0.001	0.03	0.004	0.08	0.005
11	-0.01	-0.001	-0.03	-0.004	0.08	0.005
12	-0.02	-0.003	0.00	0.000	0.02	0.003
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.02	0.003	0.02	0.003	0.03	0.004
15	0.02	0.003	-0.01	-0.001	0.02	0.003
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	0.00	0.000	0.02	0.003	0.02	0.003
18	0.02	0.003	-0.01	-0.001	0.02	0.003
19	0.00	0.000	-0.04	-0.006	0.04	0.006
20	0.00	0.000	0.03	0.004	0.03	0.004
21	0.02	0.003	-0.01	-0.001	0.02	0.003
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.02	0.003	0.01	0.001	0.02	0.003
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

B-101

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 58.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	3.78	0.541	5.19	0.753	6.39	0.927
2	0.38	0.055	-0.36	-0.052	0.52	0.076
3	0.02	0.003	0.02	0.003	0.03	0.004
4	0.06	0.009	0.06	0.009	0.08	0.012
5	0.12	0.017	-0.09	-0.013	0.15	0.022
6	-0.01	-0.001	-0.02	-0.003	0.02	0.003
7	-0.03	-0.004	0.03	0.004	0.04	0.006
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.01	0.001	0.05	0.007	0.05	0.007
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.03	0.004	0.01	0.001	0.03	0.005
12	-0.01	-0.001	0.02	0.003	0.02	0.003
13	0.02	0.003	0.02	0.003	0.03	0.004
14	0.02	0.003	0.03	0.004	0.04	0.005
15	0.04	0.006	0.02	0.003	0.04	0.006
16	0.00	0.000	0.06	0.009	0.06	0.009
17	0.00	0.000	0.02	0.003	0.02	0.003
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.01	0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	0.02	0.003	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.02	0.003	0.02	0.003
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	0.02	0.003	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

B-102

8 DEGREE ANGULAR INFLOW

RUN NUMBER 12

POINT NUMBER: 10
 MACH NUMBER: 0.598 +/- 0.001
 ADVANCE RATIO: 8.065 +/- 0.010
 POWER COEFFICIENT: 0.226 +/- 0.001
 BLADE ANGLE (DEG): 58.9 +/- 0.5
 ROTOR SPEED (RPM): 1422 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	1.51	0.219	0.83	0.120	1.72	0.250
2	0.19	0.028	-0.09	-0.013	0.21	0.030
3	0.00	0.000	0.00	0.000	0.00	0.000
4	0.00	0.000	-0.02	-0.003	0.02	0.003
5	0.04	0.006	0.03	0.004	0.05	0.007
6	-0.04	-0.006	0.01	0.001	0.04	0.006
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.01	0.001	-0.01	-0.001	0.01	0.002
9	0.01	0.001	-0.01	-0.001	0.01	0.002
10	-0.03	-0.004	0.00	0.000	0.03	0.004
11	-0.02	-0.003	-0.01	-0.001	0.02	0.003
12	0.03	0.004	0.00	0.000	0.03	0.004
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.01	0.001	0.01	0.002
15	0.03	0.004	0.04	0.006	0.05	0.007
16	0.02	0.003	-0.01	-0.001	0.02	0.003
17	-0.01	-0.001	0.07	0.010	0.07	0.010
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.00	0.000	0.01	0.001	0.01	0.001
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	0.01	0.001	0.02	0.003	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	-0.02	-0.003	0.02	0.003
29	-0.01	-0.001	0.02	0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.01	0.001	0.02	0.003	0.02	0.003
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	-0.01	-0.001	0.01	0.001	0.01	0.002

B-163

8 DEGREE ANGULAR INFLOW

RUN NUMBER 18

POINT NUMBER: 11
 MACH NUMBER: 0.700 +/- 0.001
 ADVANCE RATIO: 8.058 +/- 0.008
 POWER COEFFICIENT: 0.216 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1666 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-4.99	-0.724	-6.41	-0.930	8.12	1.178
2	-1.09	-0.158	0.59	0.086	1.24	0.180
3	0.18	0.019	-0.10	-0.015	0.16	0.024
4	-0.06	-0.009	0.05	0.007	0.08	0.011
5	0.08	0.012	-0.25	-0.036	0.26	0.038
6	-0.15	-0.022	-0.08	-0.012	0.17	0.025
7	-0.05	-0.007	-0.18	-0.019	0.14	0.020
8	-0.18	-0.019	-0.06	-0.009	0.14	0.021
9	-0.10	-0.015	-0.12	-0.017	0.16	0.023
10	-0.12	-0.017	0.00	0.000	0.12	0.017
11	-0.03	-0.004	-0.03	-0.004	0.04	0.006
12	0.09	0.013	0.10	0.015	0.18	0.020
13	-0.03	-0.004	0.08	0.012	0.09	0.012
14	-0.06	-0.009	-0.03	-0.004	0.07	0.010
15	0.03	0.004	0.00	0.000	0.03	0.004
16	0.00	0.000	-0.06	-0.009	0.06	0.009
17	0.07	0.010	-0.01	-0.001	0.07	0.010
18	-0.07	-0.010	-0.06	-0.009	0.09	0.013
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.08	-0.012	-0.06	-0.009	0.10	0.015
21	0.03	0.004	0.01	0.001	0.03	0.005
22	-0.04	-0.006	-0.05	-0.007	0.06	0.009
23	0.05	0.007	0.02	0.003	0.05	0.008
24	0.01	0.001	-0.02	-0.003	0.02	0.003
25	-0.05	-0.007	-0.02	-0.003	0.05	0.008
26	0.02	0.003	-0.06	-0.009	0.06	0.009
27	-0.01	-0.001	0.02	0.003	0.02	0.003
28	0.04	0.006	0.05	0.007	0.06	0.009
29	-0.03	-0.004	-0.01	-0.001	0.03	0.005
30	0.03	0.004	0.04	0.006	0.05	0.007
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.02	0.003	0.02	0.003
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	0.03	0.004	0.03	0.005
35	0.01	0.001	-0.02	-0.003	0.02	0.003

B-1164

8 DEGREE ANGULAR INFLOW

RUN NUMBER 18

POINT NUMBER: 11
 MACH NUMBER: 0.700 +/- 0.001
 ADVANCE RATIO: 3.058 +/- 0.008
 POWER COEFFICIENT: 0.216 +/- 0.001
 BLADE ANGLE (DEG): 53.9 +/- 0.5
 ROTOR SPEED (RPM): 1666 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.65	0.384	2.88	0.418	3.91	0.568
2	0.78	0.113	-0.61	-0.088	0.99	0.144
3	0.07	0.010	-0.38	-0.055	0.89	0.056
4	-0.10	-0.015	-0.36	-0.052	0.37	0.054
5	0.34	0.049	-0.12	-0.017	0.36	0.052
6	-0.44	-0.064	-0.36	-0.052	0.57	0.082
7	-0.45	-0.065	-0.04	-0.006	0.45	0.066
8	-0.16	-0.023	0.12	0.017	0.20	0.029
9	0.14	0.020	0.19	0.028	0.24	0.034
10	0.14	0.020	0.09	0.013	0.17	0.024
11	-0.03	-0.004	0.12	0.017	0.12	0.018
12	0.07	0.010	0.08	0.012	0.11	0.015
13	0.00	0.000	-0.07	-0.010	0.07	0.010
14	0.06	0.009	0.00	0.000	0.06	0.009
15	0.02	0.003	-0.09	-0.013	0.09	0.013
16	-0.01	-0.001	0.00	0.000	0.01	0.001
17	0.01	0.001	-0.01	-0.001	0.01	0.002
18	-0.04	-0.006	-0.02	-0.003	0.04	0.006
19	-0.06	-0.009	0.05	0.007	0.08	0.011
20	-0.02	-0.003	0.04	0.006	0.04	0.006
21	-0.01	-0.001	-0.02	-0.003	0.02	0.003
22	0.07	0.010	-0.01	-0.001	0.07	0.010
23	0.06	0.009	-0.04	-0.006	0.07	0.010
24	0.02	0.003	0.00	0.000	0.02	0.003
25	-0.02	-0.003	0.01	0.001	0.02	0.003
26	-0.03	-0.004	-0.03	-0.004	0.04	0.006
27	0.00	0.000	-0.03	-0.004	0.03	0.004
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.02	-0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	-0.03	-0.004	0.03	0.004
32	0.02	0.003	-0.01	-0.001	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.03	0.004	-0.01	-0.001	0.03	0.005
35	0.01	0.001	0.02	0.003	0.02	0.003

B-165

APPENDIX C
WAKE INFLOW DATA

WAKE INFLOW

RUN NUMBER 20

POINT NUMBER: 4
 MACH NUMBER: 0.029 +/- 0.013
 ADVANCE RATIO: 0.177 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1205 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	0.03	0.004	0.08	0.011
2	0.00	0.000	-0.07	-0.010	0.07	0.010
8	0.01	0.001	-0.02	-0.003	0.02	0.003
4	0.00	0.000	0.00	0.000	0.00	0.000
5	-0.01	-0.001	0.01	0.001	0.01	0.002
6	0.00	0.000	-0.03	-0.004	0.03	0.004
7	-0.11	-0.016	0.03	0.004	0.11	0.017
8	-0.03	-0.004	0.00	0.000	0.03	0.004
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	-0.04	-0.006	-0.01	-0.001	0.04	0.006
11	0.01	0.001	0.01	0.001	0.01	0.002
12	0.00	0.000	0.00	0.000	0.00	0.000
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.01	0.001	0.01	0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	0.00	0.000	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.02	0.003	-0.02	-0.003	0.03	0.004
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	0.02	0.003	0.02	0.003
29	-0.02	-0.003	-0.02	-0.003	0.03	0.004
30	0.00	0.000	0.02	0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.01	0.001	0.01	0.002
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

WAKE INFLOW

RUN NUMBER 20

POINT NUMBER: 4
 MACH NUMBER: 0.029 +/- 0.013
 ADVANCE RATIO: 0.177 +/- 0.079
 POWER COEFFICIENT: 0.204 +/- 0.001
 BLADE ANGLE (DEG): 22.2 +/- 0.5
 ROTOR SPEED (RPM): 1205 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 12 RATIO: 0.641 CHORD: 63.3 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.36	0.052	-0.29	-0.042	0.46	0.067
2	-0.39	-0.057	0.00	0.000	0.39	0.057
3	0.10	0.015	0.05	0.007	0.11	0.016
4	-0.02	-0.003	0.05	0.007	0.05	0.008
5	0.02	0.003	-0.01	-0.001	0.02	0.003
6	0.02	0.003	-0.04	-0.006	0.04	0.006
7	-0.02	-0.003	-0.02	-0.003	0.03	0.004
8	-0.03	-0.004	0.00	0.000	0.03	0.004
9	0.01	0.001	0.01	0.001	0.01	0.002
10	-0.01	-0.001	0.00	0.000	0.01	0.001
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.02	0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.03	0.004	0.04	0.006	0.05	0.007
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	-0.03	-0.004	0.03	0.004
24	0.00	0.000	0.01	0.001	0.01	0.001
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	0.01	0.001	-0.04	-0.006	0.04	0.006
28	-0.01	-0.001	0.01	0.001	0.01	0.002
29	-0.01	-0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.02	0.003	0.02	0.003
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

C-3

WAKE INFLOW

RUN NUMBER 21

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.884 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.04	0.006	0.04	0.006
2	0.02	0.003	-0.01	-0.001	0.02	0.003
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	-0.03	-0.004	0.01	0.001	0.03	0.005
5	0.01	0.001	0.00	0.000	0.01	0.001
6	0.01	0.001	0.02	0.003	0.02	0.003
7	0.00	0.000	0.00	0.000	0.00	0.000
8	0.02	0.003	-0.02	-0.003	0.03	0.004
9	0.01	0.001	0.00	0.000	0.01	0.001
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.00	0.000	0.00	0.000
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.01	0.001	-0.01	-0.001	0.01	0.002
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.01	-0.001	-0.01	-0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.00	0.000	0.02	0.003	0.02	0.003
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.05	0.007	0.04	0.006	0.06	0.009
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.03	0.004	0.00	0.000	0.03	0.004
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.01	0.001	0.01	0.002
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.02	0.003	0.00	0.000	0.02	0.003
33	-0.02	-0.003	0.01	0.001	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

04

WAKE INFLOW

RUN NUMBER 21

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.884 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.00	0.000	0.03	0.004
2	-0.02	-0.003	0.01	0.001	0.02	0.003
3	-0.21	-0.030	0.10	0.015	0.23	0.034
4	-0.01	-0.001	0.00	0.000	0.01	0.001
5	-0.07	-0.010	0.06	0.009	0.09	0.018
6	0.02	0.003	0.21	0.030	0.21	0.031
7	-0.07	-0.010	-0.06	-0.009	0.09	0.018
8	0.00	0.000	0.05	0.007	0.05	0.007
9	0.00	0.000	0.01	0.001	0.01	0.001
10	-0.01	-0.001	-0.02	-0.003	0.02	0.003
11	-0.07	-0.010	-0.02	-0.003	0.07	0.011
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.01	0.001	0.01	0.001	0.01	0.002
14	0.02	0.003	-0.03	-0.004	0.04	0.005
15	0.00	0.000	0.03	0.004	0.03	0.004
16	0.00	0.000	0.03	0.004	0.03	0.004
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.03	-0.004	0.00	0.000	0.03	0.004
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	-0.07	-0.010	0.03	0.004	0.08	0.011
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.02	-0.003	0.01	0.001	0.02	0.003
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.03	0.004	0.03	0.004
28	-0.01	-0.001	0.01	0.001	0.01	0.002
29	0.03	0.004	0.00	0.000	0.03	0.004
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	-0.03	-0.004	0.00	0.000	0.03	0.004
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.02	-0.003	0.02	0.003

0.5

WAKE INFLOW

RUN NUMBER 21

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.884 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.08	-0.012	0.02	0.003	0.08	0.012
2	0.02	0.003	-0.07	-0.010	0.07	0.011
3	0.02	0.003	0.00	0.000	0.02	0.003
4	-0.24	-0.035	0.18	0.026	0.30	0.044
5	-0.09	-0.013	0.03	0.004	0.09	0.014
6	0.08	0.012	-0.11	-0.016	0.14	0.020
7	0.02	0.003	-0.11	-0.016	0.11	0.016
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.01	0.001	0.01	0.001	0.01	0.002
11	0.00	0.000	0.01	0.001	0.01	0.001
12	0.00	0.000	0.01	0.001	0.01	0.001
13	-0.01	-0.001	-0.01	-0.001	0.01	0.002
14	0.03	0.004	-0.04	-0.006	0.05	0.007
15	0.04	0.006	0.00	0.000	0.04	0.006
16	-0.02	-0.003	-0.01	-0.001	0.02	0.003
17	0.01	0.001	0.00	0.000	0.01	0.001
18	0.01	0.001	0.00	0.000	0.01	0.001
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	0.01	0.001	0.03	-0.004	0.03	0.005
22	0.00	0.000	0.02	0.003	0.02	0.003
23	0.02	0.003	0.01	0.001	0.02	0.003
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.02	0.003	0.01	0.001	0.02	0.003
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.01	-0.001	0.01	0.001

WAKE INFLOW

RUN NUMBER 21

POINT NUMBER: 5
 MACH NUMBER: 0.200 +/- 0.003
 ADVANCE RATIO: 0.884 +/- 0.015
 POWER COEFFICIENT: 0.101 +/- 0.001
 BLADE ANGLE (DEG): 26.0 +/- 0.5
 ROTOR SPEED (RPM): 1672 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.04	0.006	0.02	0.003	0.04	0.006
2	0.02	0.003	0.01	0.001	0.02	0.003
3	-0.02	-0.003	0.03	0.004	0.04	0.005
4	-0.01	-0.001	0.06	0.009	0.06	0.009
5	0.03	0.004	0.00	0.000	0.03	0.004
6	0.00	0.000	0.00	0.000	0.00	0.000
7	-0.01	-0.001	0.01	0.001	0.01	0.002
8	0.01	0.001	0.01	0.001	0.01	0.002
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	-0.02	-0.003	-0.01	-0.001	0.02	0.003
11	0.00	0.000	0.00	0.000	0.00	0.000
12	0.00	0.000	-0.03	-0.004	0.03	0.004
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	0.01	0.001	-0.04	-0.006	0.04	0.006
15	0.00	0.000	0.04	0.006	0.04	0.006
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	0.00	0.000	0.01	0.001
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.02	0.003	0.03	0.004	0.04	0.005
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.02	0.003	0.00	0.000	0.02	0.003
23	-0.01	-0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.01	0.001	0.03	0.004	0.03	0.005
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.01	0.001	0.02	0.003	0.02	0.003
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.01	0.001	-0.01	-0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.888 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.36	-0.052	-0.02	-0.003	0.36	0.052
2	0.26	0.038	0.08	0.012	0.27	0.039
3	0.11	0.016	0.07	0.010	0.18	0.019
4	0.01	0.001	0.10	0.015	0.10	0.015
5	-0.11	-0.016	0.06	0.009	0.18	0.018
6	-0.05	-0.007	-0.13	-0.019	0.14	0.020
7	0.09	0.013	-0.13	-0.019	0.16	0.023
8	0.10	0.015	0.04	0.006	0.11	0.016
9	0.00	0.000	0.08	0.012	0.08	0.012
10	-0.11	-0.016	0.01	0.001	0.11	0.016
11	-0.05	-0.007	-0.07	-0.010	0.09	0.012
12	0.05	0.007	-0.12	-0.017	0.13	0.019
13	0.10	0.015	0.05	0.007	0.11	0.016
14	0.00	0.000	0.11	0.016	0.11	0.016
15	-0.07	-0.010	0.00	0.000	0.07	0.010
16	-0.05	-0.007	-0.09	-0.013	0.10	0.015
17	0.05	0.007	-0.09	-0.013	0.10	0.015
18	0.10	0.015	0.05	0.007	0.11	0.016
19	0.01	0.001	0.09	0.013	0.09	0.013
20	-0.09	-0.013	0.04	0.006	0.10	0.014
21	-0.03	-0.004	-0.10	-0.015	0.10	0.015
22	0.07	0.010	-0.09	-0.013	0.11	0.017
23	0.07	0.010	0.02	0.003	0.07	0.011
24	0.00	0.000	0.11	0.016	0.11	0.016
25	-0.13	-0.019	0.01	0.001	0.13	0.019
26	-0.04	-0.006	-0.10	-0.015	0.11	0.016
27	0.08	0.012	-0.08	-0.012	0.11	0.016
28	0.08	0.012	0.05	0.007	0.09	0.014
29	0.05	0.007	0.06	0.009	0.08	0.011
30	-0.11	-0.016	0.00	0.000	0.11	0.016
31	0.00	0.000	-0.09	-0.013	0.09	0.013
32	0.09	0.013	-0.02	-0.003	0.09	0.013
33	0.04	0.006	0.08	0.012	0.09	0.013
34	-0.06	-0.009	0.06	0.009	0.08	0.012
35	-0.05	-0.007	-0.08	-0.004	0.06	0.008

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.01	0.001	0.03	0.004	0.03	0.005
2	-0.06	-0.009	0.05	0.007	0.08	0.011
3	0.03	0.004	0.05	0.007	0.06	0.008
4	-0.12	-0.017	0.13	0.019	0.18	0.026
5	-0.01	-0.001	0.02	0.003	0.02	0.003
6	-0.10	-0.015	0.22	0.032	0.24	0.035
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.09	0.013	0.08	0.012	0.12	0.017
9	-0.02	-0.003	0.04	0.006	0.04	0.006
10	0.08	0.012	-0.07	-0.010	0.11	0.015
11	0.01	0.001	-0.01	-0.001	0.01	0.002
12	-0.03	-0.004	-0.05	-0.007	0.06	0.008
13	0.02	0.003	0.01	0.001	0.02	0.003
14	-0.06	-0.009	0.05	0.007	0.08	0.011
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	-0.01	-0.001	0.07	0.010	0.07	0.010
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.02	-0.003	0.00	0.000	0.02	0.003
19	-0.01	-0.001	0.01	0.001	0.01	0.002
20	0.05	0.007	-0.05	-0.007	0.07	0.010
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.01	0.001	-0.03	-0.004	0.03	0.005
23	0.01	0.001	0.01	0.001	0.01	0.002
24	-0.02	-0.003	0.00	0.000	0.02	0.003
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	-0.02	-0.003	0.00	0.000	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	-0.01	-0.001	0.02	0.003
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.03	-0.004	-0.19	-0.028	0.19	0.028
2	0.00	0.000	-0.01	-0.001	0.01	0.001
3	0.00	0.000	0.02	0.003	0.02	0.003
4	0.03	0.004	0.03	0.004	0.04	0.006
5	0.00	0.000	0.03	0.004	0.03	0.004
6	-0.01	-0.001	0.00	0.000	0.01	0.001
7	0.02	0.003	-0.04	-0.006	0.04	0.006
8	0.01	0.001	0.01	0.001	0.01	0.002
9	0.00	0.000	0.03	0.004	0.03	0.004
10	-0.02	-0.003	0.00	0.000	0.02	0.003
11	0.01	0.001	0.00	0.000	0.01	0.001
12	0.01	0.001	-0.05	-0.007	0.05	0.007
13	0.02	0.003	0.03	0.004	0.04	0.005
14	0.00	0.000	0.04	0.006	0.04	0.006
15	-0.04	-0.006	-0.04	-0.006	0.06	0.008
16	-0.02	-0.003	-0.03	-0.004	0.04	0.005
17	0.00	0.000	-0.02	-0.003	0.02	0.003
18	0.03	0.004	0.01	0.001	0.03	0.005
19	-0.05	-0.007	0.00	0.000	0.05	0.007
20	-0.03	-0.004	0.02	0.003	0.04	0.005
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	-0.03	-0.004	0.03	0.005
23	0.02	0.003	0.01	0.001	0.02	0.003
24	-0.01	-0.001	0.03	0.004	0.03	0.005
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	-0.02	-0.003	-0.01	-0.001	0.02	0.003
27	0.02	0.003	-0.01	-0.001	0.02	0.003
28	0.02	0.003	0.02	0.003	0.03	0.004
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.02	-0.003	-0.03	-0.004	0.04	0.005
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.03	0.004	0.03	0.004	0.04	0.006
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE TRANSDUCEI: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.14	-0.020	-0.12	-0.017	0.18	0.027
2	0.09	0.013	-0.03	-0.004	0.09	0.014
3	0.03	0.004	0.06	0.009	0.07	0.010
4	0.05	0.007	0.10	0.015	0.11	0.016
5	-0.09	-0.013	0.07	0.010	0.11	0.017
6	-0.06	-0.009	-0.04	-0.006	0.07	0.010
7	0.01	0.001	-0.15	-0.022	0.15	0.022
8	0.11	0.016	-0.02	-0.003	0.11	0.016
9	0.03	0.004	0.07	0.010	0.08	0.011
10	-0.09	-0.013	0.06	0.009	0.11	0.016
11	-0.09	-0.013	-0.01	-0.001	0.09	0.013
12	-0.04	-0.006	-0.10	-0.015	0.11	0.016
13	0.12	0.017	-0.07	-0.010	0.14	0.020
14	0.07	0.010	0.03	0.004	0.08	0.011
15	0.02	0.003	0.13	0.019	0.13	0.019
16	-0.09	-0.013	0.03	0.004	0.09	0.014
17	-0.07	-0.010	-0.12	-0.017	0.14	0.020
18	0.06	0.009	-0.05	-0.007	0.08	0.011
19	0.05	0.007	0.00	0.000	0.05	0.007
20	0.04	0.006	0.12	0.017	0.13	0.018
21	-0.07	-0.010	0.08	0.012	0.11	0.015
22	-0.09	-0.013	-0.07	-0.010	0.11	0.017
23	0.01	0.001	-0.08	-0.012	0.08	0.012
24	0.11	0.016	-0.03	-0.004	0.11	0.017
25	0.04	0.006	0.08	0.012	0.09	0.013
26	-0.06	-0.009	0.06	0.009	0.08	0.012
27	-0.11	-0.016	-0.04	-0.006	0.12	0.017
28	0.01	0.001	-0.12	-0.017	0.12	0.017
29	0.09	0.013	-0.02	-0.003	0.09	0.013
30	0.07	0.010	0.10	0.015	0.12	0.018
31	-0.10	-0.015	0.09	0.013	0.13	0.020
32	-0.09	-0.013	-0.05	-0.007	0.10	0.015
33	0.01	0.001	-0.10	-0.015	0.10	0.015
34	0.07	0.010	0.00	0.000	0.07	0.010
35	0.02	0.003	0.06	0.009	0.06	0.009

C-11

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.27	-0.039	-0.01	-0.001	0.27	0.039
2	0.18	0.026	0.01	0.001	0.18	0.026
8	0.00	0.000	0.00	0.000	0.00	0.000
4	0.03	0.004	0.07	0.010	0.08	0.011
5	-0.03	-0.004	0.03	0.004	0.04	0.006
6	-0.04	-0.006	-0.01	-0.001	0.04	0.006
7	-0.02	-0.003	-0.07	-0.010	0.07	0.011
8	0.06	0.009	-0.01	-0.001	0.06	0.009
9	0.00	0.000	0.03	0.004	0.03	0.004
10	-0.06	-0.009	0.04	0.006	0.07	0.010
11	-0.03	-0.004	0.00	0.000	0.03	0.004
12	-0.03	-0.004	-0.06	-0.009	0.07	0.010
13	0.01	0.001	-0.03	-0.004	0.03	0.005
14	0.00	0.000	0.02	0.003	0.02	0.003
15	0.00	0.000	0.05	0.007	0.05	0.007
16	-0.04	-0.006	0.02	0.003	0.04	0.006
17	-0.05	-0.007	-0.04	-0.006	0.06	0.009
18	0.03	0.004	-0.06	-0.009	0.07	0.010
19	0.06	0.009	0.01	0.001	0.06	0.009
20	0.03	0.004	0.07	0.010	0.08	0.011
21	-0.05	-0.007	0.04	0.006	0.06	0.009
22	-0.05	-0.007	-0.04	-0.006	0.06	0.009
23	0.02	0.003	-0.06	-0.009	0.06	0.009
24	0.00	0.000	-0.04	-0.006	0.04	0.006
25	0.01	0.001	0.04	0.006	0.04	0.006
26	-0.01	-0.001	0.05	0.007	0.05	0.007
27	-0.05	-0.007	-0.02	-0.003	0.05	0.008
28	0.00	0.000	-0.03	-0.004	0.03	0.004
29	0.05	0.007	-0.03	-0.004	0.06	0.008
30	0.03	0.004	0.07	0.010	0.08	0.011
31	-0.01	-0.001	0.04	0.006	0.04	0.006
32	-0.03	-0.004	-0.03	-0.004	0.04	0.006
33	-0.01	-0.001	-0.06	-0.009	0.06	0.009
34	0.04	0.006	0.00	0.000	0.04	0.006
35	0.01	0.001	0.02	0.003	0.02	0.003

C-12

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5A
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.883 +/- 0.015
 POWER COEFFICIENT: 0.151 +/- 0.001
 BLADE ANGLE (DEG): 27.4 +/- 0.5
 ROTOR SPEED (RPM): 1669 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.26	-0.038	0.12	0.017	0.29	0.042
2	0.02	0.003	-0.15	-0.022	0.15	0.022
8	0.16	0.023	0.02	0.003	0.16	0.023
4	0.04	0.006	0.17	0.025	0.17	0.025
5	-0.10	-0.015	0.11	0.016	0.15	0.022
6	-0.14	-0.020	-0.09	-0.013	0.17	0.024
7	0.00	0.000	-0.16	-0.023	0.16	0.023
8	0.16	0.023	-0.01	-0.001	0.16	0.023
9	0.04	0.006	0.12	0.017	0.13	0.018
10	-0.06	-0.009	0.07	0.010	0.09	0.013
11	-0.13	-0.019	-0.02	-0.003	0.13	0.019
12	-0.02	-0.003	-0.14	-0.020	0.14	0.021
13	0.13	0.019	-0.10	-0.015	0.16	0.024
14	0.16	0.023	0.04	0.006	0.16	0.024
15	0.02	0.003	0.17	0.025	0.17	0.025
16	-0.13	-0.019	0.03	0.004	0.13	0.019
17	-0.07	-0.010	-0.13	-0.019	0.15	0.021
18	0.04	0.006	-0.12	-0.017	0.13	0.018
19	0.15	0.022	-0.02	-0.003	0.15	0.022
20	0.05	0.007	0.13	0.019	0.14	0.020
21	-0.09	-0.013	0.11	0.016	0.14	0.021
22	-0.13	-0.019	-0.07	-0.010	0.15	0.021
23	0.01	0.001	-0.15	-0.022	0.15	0.022
24	0.14	0.020	0.05	0.007	0.15	0.022
25	0.04	0.006	0.10	0.015	0.11	0.016
26	-0.06	-0.009	0.12	0.017	0.13	0.019
27	-0.16	-0.023	-0.43	-0.062	0.46	0.067
28	0.00	0.000	-0.14	-0.020	0.14	0.020
29	0.03	0.012	-0.03	-0.004	0.09	0.012
30	0.10	0.015	0.08	0.012	0.13	0.019
31	-0.05	-0.007	0.12	0.017	0.13	0.019
32	-0.15	-0.022	-0.03	-0.004	0.15	0.022
33	0.00	0.000	-0.12	-0.017	0.12	0.017
34	0.11	0.016	-0.04	-0.006	0.12	0.017
35	0.04	0.006	0.07	0.010	0.08	0.012

0-13

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.18	-0.026	-0.11	-0.016	0.21	0.031
2	0.09	0.013	0.17	0.025	0.19	0.028
3	-0.02	-0.003	0.02	0.003	0.03	0.004
4	0.00	0.000	-0.04	-0.006	0.04	0.006
5	0.11	0.016	0.10	0.015	0.15	0.022
6	0.05	0.007	-0.02	-0.003	0.05	0.008
7	0.05	0.007	-0.01	-0.001	0.05	0.007
8	0.00	0.000	0.00	0.000	0.00	0.000
9	0.02	0.003	-0.02	-0.003	0.03	0.004
10	-0.03	-0.004	-0.01	-0.001	0.03	0.005
11	0.00	0.000	0.02	0.003	0.02	0.003
12	0.00	0.000	-0.02	-0.003	0.02	0.003
13	0.00	0.000	0.00	0.000	0.00	0.000
14	0.00	0.000	0.00	0.000	0.00	0.000
15	0.01	0.001	-0.03	-0.004	0.03	0.005
16	0.00	0.000	-0.02	-0.003	0.02	0.003
17	0.03	0.004	0.08	0.012	0.09	0.012
18	0.00	0.000	0.00	0.000	0.00	0.000
19	0.02	0.003	0.01	0.001	0.02	0.003
20	-0.01	-0.001	-0.02	-0.003	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.02	0.003	0.01	0.001	0.02	0.003
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

C-14

WAKE INFLOW

RUN NUMBER 23

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.05	0.007	0.09	0.012
2	-0.07	-0.010	0.06	0.009	0.09	0.013
3	-0.02	-0.003	0.01	0.001	0.02	0.003
4	-0.18	-0.026	0.10	0.015	0.21	0.030
5	-0.02	-0.003	-0.05	-0.007	0.05	0.008
6	-0.09	-0.013	0.18	0.026	0.20	0.029
7	-0.01	-0.001	-0.02	-0.003	0.02	0.003
8	0.12	0.017	0.05	0.007	0.13	0.019
9	-0.03	-0.004	-0.04	-0.006	0.05	0.007
10	0.05	0.007	-0.07	-0.010	0.09	0.012
11	-0.01	-0.001	0.04	0.006	0.04	0.006
12	-0.02	-0.003	-0.05	-0.007	0.05	0.008
13	0.01	0.001	0.03	0.004	0.03	0.005
14	-0.06	-0.009	0.02	0.003	0.06	0.009
15	0.03	0.004	-0.01	-0.001	0.03	0.005
16	-0.02	-0.003	0.08	0.012	0.08	0.012
17	0.06	0.009	-0.03	-0.004	0.07	0.010
18	0.03	0.004	0.01	0.001	0.03	0.005
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.03	0.004	0.00	0.000	0.03	0.004
21	-0.01	-0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	-0.01	-0.001	0.01	0.001
23	0.00	0.000	0.03	0.004	0.03	0.004
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	0.01	0.001	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.00	0.000	0.00	0.000
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.01	0.001	0.02	0.003	0.02	0.003
35	0.01	0.001	0.00	0.000	0.01	0.001

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.01	0.001	0.07	0.010
2	-0.09	-0.013	-0.15	-0.022	0.17	0.025
3	-0.07	-0.010	-0.03	-0.004	0.08	0.011
4	-0.10	-0.015	0.10	0.015	0.14	0.021
5	0.25	0.036	0.01	0.001	0.25	0.036
6	0.15	0.022	0.10	0.015	0.18	0.026
7	0.00	0.000	-0.01	-0.001	0.01	0.001
8	0.02	0.003	-0.10	-0.015	0.10	0.015
9	-0.01	-0.001	0.03	0.004	0.03	0.005
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.03	0.004	0.02	0.003	0.04	0.005
12	0.03	0.004	-0.03	-0.004	0.04	0.006
13	0.03	0.004	0.00	0.000	0.03	0.004
14	0.01	0.001	0.00	0.000	0.01	0.001
15	-0.02	-0.003	-0.04	-0.006	0.04	0.006
16	0.00	0.000	0.02	0.003	0.02	0.003
17	0.01	0.001	0.02	0.003	0.02	0.003
18	0.00	0.000	0.03	0.004	0.03	0.004
19	-0.04	-0.006	-0.01	-0.001	0.04	0.006
20	0.00	0.000	-0.03	-0.004	0.03	0.004
21	0.02	0.003	-0.01	-0.001	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.04	0.006	0.01	0.001	0.04	0.006
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.02	-0.003	-0.01	-0.001	0.02	0.003
29	-0.01	-0.001	-0.01	-0.001	0.01	0.002
30	-0.01	-0.001	-0.02	-0.003	0.02	0.003
31	0.03	0.004	0.02	0.003	0.04	0.005
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

C-16

WAKE INFLOW

RUN NUMBER 23

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.13	0.019	-0.06	-0.009	0.14	0.021
2	-0.23	-0.033	-0.23	-0.033	0.33	0.047
3	0.06	0.009	0.11	0.016	0.13	0.018
4	-0.09	-0.013	0.06	0.009	0.11	0.016
5	-0.12	-0.017	0.06	0.009	0.18	0.019
6	0.14	0.020	0.02	0.003	0.14	0.021
7	0.00	0.000	-0.04	-0.006	0.04	0.006
8	-0.02	-0.003	-0.09	-0.013	0.09	0.013
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	-0.04	-0.006	0.03	0.004	0.05	0.007
11	0.04	0.006	0.03	0.004	0.05	0.007
12	0.03	0.004	0.03	0.004	0.04	0.006
13	0.04	0.006	0.00	0.000	0.04	0.006
14	0.01	0.001	0.03	0.004	0.03	0.005
15	0.01	0.001	0.00	0.000	0.01	0.001
16	0.02	0.003	0.01	0.001	0.02	0.003
17	0.02	0.003	0.02	0.003	0.03	0.004
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.04	-0.006	-0.07	-0.010	0.08	0.012
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	-0.04	-0.006	-0.02	-0.003	0.04	0.006
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.02	-0.003	0.00	0.000	0.02	0.003
24	0.02	0.003	0.00	0.000	0.02	0.003
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	-0.04	-0.006	0.04	0.006
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.03	0.004	0.03	0.004
31	-0.01	-0.001	0.02	0.003	0.02	0.003
32	-0.01	-0.001	0.00	0.000	0.01	0.001
33	0.04	0.006	0.00	0.000	0.04	0.006
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.08	-0.012	-0.01	-0.001	0.08	0.012
2	0.03	0.004	0.08	0.012	0.09	0.012
3	-0.06	-0.009	-0.10	-0.015	0.12	0.017
4	0.20	0.029	-0.31	-0.045	0.37	0.054
5	-0.09	-0.013	0.11	0.016	0.14	0.021
6	0.00	0.000	-0.23	-0.033	0.23	0.033
7	0.12	0.017	0.15	0.022	0.19	0.028
8	-0.28	-0.038	0.16	0.023	0.28	0.041
9	0.12	0.017	-0.09	-0.013	0.15	0.022
10	0.15	0.022	0.06	0.009	0.16	0.023
11	0.00	0.000	-0.17	-0.025	0.17	0.025
12	0.14	0.020	-0.08	-0.012	0.16	0.023
13	-0.16	-0.023	0.00	0.000	0.16	0.023
14	-0.04	-0.006	-0.04	-0.006	0.06	0.008
15	-0.06	-0.009	0.07	0.010	0.09	0.013
16	-0.03	-0.004	-0.05	-0.007	0.06	0.008
17	0.06	0.009	0.01	0.001	0.06	0.009
18	-0.03	-0.004	-0.04	-0.006	0.05	0.007
19	0.03	0.004	-0.01	-0.001	0.03	0.005
20	-0.03	-0.004	-0.12	-0.017	0.12	0.018
21	-0.05	-0.007	-0.04	-0.006	0.06	0.009
22	0.01	0.001	0.01	0.001	0.01	0.002
23	-0.04	-0.006	0.01	0.004	0.05	0.007
24	0.07	0.010	0.02	0.003	0.07	0.011
25	0.01	0.001	0.02	0.003	0.02	0.003
26	-0.01	-0.001	-0.07	-0.010	0.07	0.010
27	0.03	0.004	0.00	0.000	0.03	0.004
28	-0.04	-0.006	-0.01	-0.001	0.04	0.006
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.02	0.003	0.02	0.003	0.03	0.004
31	-0.01	-0.001	0.05	0.007	0.05	0.007
32	-0.01	-0.001	-0.04	-0.006	0.04	0.006
33	-0.16	-0.023	0.08	0.012	0.18	0.026
34	0.06	0.009	-0.09	-0.013	0.11	0.016
35	0.08	0.012	-0.01	-0.001	0.08	0.012

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 23 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.27	-0.039	-0.40	-0.058	0.43	0.070
2	0.23	0.041	0.07	0.010	0.29	0.042
3	-0.18	-0.026	-0.01	-0.001	0.18	0.026
4	0.14	0.020	0.06	0.009	0.15	0.022
5	-0.39	-0.057	-0.06	-0.009	0.39	0.057
6	0.27	0.039	-0.19	-0.028	0.33	0.048
7	-0.07	-0.010	0.29	0.042	0.30	0.043
8	-0.06	-0.009	-0.18	-0.026	0.19	0.028
9	0.08	0.012	0.07	0.010	0.11	0.015
10	-0.06	-0.009	-0.09	-0.013	0.11	0.016
11	0.08	0.012	0.14	0.020	0.16	0.023
12	-0.16	-0.023	-0.07	-0.010	0.17	0.025
13	0.11	0.016	-0.06	-0.009	0.13	0.018
14	-0.04	-0.006	0.09	0.013	0.10	0.014
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	0.01	0.001	-0.02	-0.003	0.02	0.003
18	0.03	0.004	0.00	0.000	0.03	0.004
19	-0.02	-0.003	-0.02	-0.003	0.03	0.004
20	0.01	0.001	0.04	0.006	0.04	0.006
21	0.04	0.006	0.00	0.000	0.04	0.006
22	0.01	0.001	0.00	0.000	0.01	0.001
23	-0.02	-0.003	0.02	0.003	0.03	0.004
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.03	0.004	0.00	0.000	0.03	0.004
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	2.52	0.365	1.48	0.207	2.90	0.420
2	-0.54	-0.078	0.21	0.030	0.58	0.084
3	-0.40	-0.058	-0.49	-0.071	0.63	0.092
4	0.27	0.039	0.18	0.026	0.32	0.047
5	-0.19	-0.028	-0.15	-0.022	0.24	0.035
6	-0.24	-0.035	-0.13	-0.019	0.27	0.040
7	-0.12	-0.017	0.08	0.012	0.14	0.021
8	0.07	0.010	0.10	0.015	0.12	0.018
9	0.04	0.006	0.08	0.012	0.09	0.013
10	0.06	0.009	-0.11	-0.016	0.13	0.018
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	0.02	0.003	0.02	0.003	0.03	0.004
13	0.01	0.001	0.07	0.010	0.07	0.010
14	0.01	0.001	-0.02	-0.003	0.02	0.003
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.03	0.004	0.04	0.006	0.05	0.007
17	0.01	0.001	-0.02	-0.003	0.02	0.003
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.05	-0.007	-0.03	-0.004	0.06	0.008
20	0.02	0.003	0.00	0.000	0.02	0.003
21	0.01	0.001	0.02	0.003	0.02	0.003
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	-0.04	-0.006	0.00	0.000	0.04	0.006
24	-0.03	-0.004	0.01	0.001	0.03	0.005
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.03	0.012	-0.01	-0.001	0.03	0.012
27	0.02	0.003	-0.02	-0.003	0.03	0.004
28	0.03	0.004	-0.01	-0.001	0.03	0.005
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	-0.01	-0.001	0.00	0.000	0.01	0.001

C-4

C-20

WAKE INFLOW

RUN NUMBER 28

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.66	-0.096	1.68	0.244	1.80	0.262
2	-0.16	-0.023	0.06	0.009	0.17	0.025
3	-0.18	-0.026	0.11	0.016	0.21	0.031
4	-0.19	-0.028	-0.06	-0.009	0.20	0.029
5	0.16	0.023	-0.04	-0.006	0.16	0.024
6	0.14	0.020	0.03	0.004	0.14	0.021
7	-0.06	-0.009	0.14	0.020	0.15	0.022
8	-0.10	-0.015	-0.05	-0.007	0.11	0.016
9	-0.02	-0.003	-0.19	-0.028	0.19	0.028
10	0.09	0.013	-0.06	-0.009	0.11	0.016
11	0.05	0.007	0.06	0.009	0.08	0.011
12	-0.03	-0.004	0.01	0.001	0.03	0.005
13	0.00	0.000	-0.05	-0.007	0.05	0.007
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	-0.05	-0.007	0.05	0.007
16	-0.03	-0.004	-0.01	-0.001	0.03	0.005
17	-0.03	-0.004	0.01	0.001	0.03	0.005
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	-0.01	-0.001	0.01	0.002
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.02	0.003	-0.01	-0.001	0.02	0.003
24	-0.01	-0.001	0.02	0.003	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.03	0.004	-0.03	-0.004	0.04	0.006
28	0.03	0.004	0.02	0.003	0.04	0.005
29	0.00	0.000	0.02	0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.02	0.003	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.01	-0.001	-0.02	-0.003	0.02	0.003

0-21

WAKE INFLOW

RUN NUMBER 23

POINT NUMBER: 5B
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.881 +/- 0.015
 POWER COEFFICIENT: 0.202 +/- 0.001
 BLADE ANGLE (DEG): 29.7 +/- 0.5
 ROTOR SPEED (RPM): 1675 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.10	0.015	0.59	0.086	0.60	0.087
2	0.37	0.054	1.03	0.149	1.09	0.159
3	-0.12	-0.017	-0.11	-0.016	0.16	0.024
4	0.64	0.093	-0.43	-0.062	0.77	0.112
5	-0.12	-0.017	0.34	0.049	0.36	0.052
6	-0.52	-0.075	-0.33	-0.048	0.62	0.089
7	0.08	0.012	-0.02	-0.003	0.08	0.012
8	0.02	0.003	0.42	0.061	0.42	0.061
9	-0.11	-0.016	0.00	0.000	0.11	0.016
10	0.25	0.036	-0.20	-0.029	0.32	0.046
11	0.07	0.010	0.04	0.006	0.08	0.012
12	-0.25	-0.036	-0.03	-0.004	0.25	0.037
13	0.06	0.009	-0.12	-0.017	0.13	0.019
14	0.05	0.007	0.15	0.022	0.16	0.023
15	-0.13	-0.019	0.03	0.004	0.13	0.019
16	0.12	0.017	-0.09	-0.013	0.15	0.022
17	0.06	0.009	0.06	0.009	0.08	0.012
18	-0.08	-0.012	-0.03	-0.004	0.09	0.012
19	0.06	0.009	-0.07	-0.010	0.09	0.013
20	0.05	0.007	0.15	0.022	0.16	0.023
21	-0.07	-0.010	0.00	0.000	0.07	0.010
22	0.06	0.009	-0.07	-0.010	0.09	0.013
23	0.00	0.000	0.04	0.006	0.04	0.006
24	-0.04	-0.006	-0.03	-0.004	0.05	0.007
25	0.04	0.006	-0.02	-0.003	0.04	0.006
26	0.01	0.001	0.01	0.001	0.01	0.002
27	-0.01	-0.001	-0.03	-0.004	0.03	0.005
28	0.02	0.003	0.02	0.003	0.03	0.004
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.02	0.003	0.02	0.003	0.03	0.004
32	-0.06	-0.009	0.01	0.001	0.06	0.009
33	-0.05	-0.007	0.06	0.009	0.08	0.011
34	-0.02	-0.003	-0.01	-0.001	0.02	0.003
35	0.00	0.000	0.00	0.000	0.00	0.000

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 2 RATIO: 0.906 CHORD: 29.9 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	0.02	0.003	0.04	0.005
2	-0.09	-0.013	0.05	0.007	0.10	0.015
3	0.00	0.000	0.01	0.001	0.01	0.001
4	-0.09	-0.013	0.15	0.022	0.17	0.025
5	-0.03	-0.004	-0.01	-0.001	0.03	0.005
6	0.00	0.000	-0.10	-0.015	0.10	0.015
7	0.04	0.006	0.06	0.009	0.07	0.010
8	0.02	0.003	-0.05	-0.007	0.05	0.008
9	0.03	0.004	-0.02	-0.003	0.04	0.005
10	-0.08	-0.012	0.13	0.019	0.15	0.022
11	-0.01	-0.001	-0.02	-0.003	0.02	0.003
12	0.10	0.015	0.02	0.003	0.10	0.015
13	0.00	0.000	0.01	0.001	0.01	0.001
14	-0.04	-0.006	-0.02	-0.003	0.04	0.006
15	0.03	0.004	-0.01	-0.001	0.03	0.005
16	-0.09	-0.013	0.00	0.000	0.09	0.013
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.04	0.006	0.00	0.000	0.04	0.006
19	0.00	0.000	0.06	0.009	0.06	0.009
20	0.05	0.007	-0.02	-0.003	0.05	0.008
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	0.00	0.000	0.00	0.000
25	0.00	0.000	0.00	0.000	0.00	0.000
26	-0.01	-0.001	-0.02	-0.003	0.02	0.003
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.04	0.006	0.04	0.006
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.02	0.003	-0.04	-0.006	0.04	0.006
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.01	0.001	0.01	0.002

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.23	-0.033	0.07	0.010	0.24	0.035
2	-0.02	-0.003	-0.01	-0.001	0.02	0.003
8	-0.02	-0.003	0.03	0.004	0.04	0.005
4	-0.18	-0.019	0.05	0.007	0.14	0.020
5	0.02	0.003	-0.01	-0.001	0.02	0.003
6	-0.04	-0.006	-0.02	-0.003	0.04	0.006
7	0.08	0.012	0.02	0.003	0.08	0.012
8	0.07	0.010	-0.05	-0.007	0.09	0.012
9	0.02	0.003	0.04	0.006	0.04	0.006
10	-0.09	-0.013	0.00	0.000	0.09	0.013
11	0.01	0.001	0.01	0.001	0.01	0.002
12	-0.02	-0.003	0.18	0.026	0.18	0.026
18	0.00	0.000	-0.05	-0.007	0.05	0.007
14	0.01	0.001	0.04	0.006	0.04	0.006
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	-0.01	-0.001	-0.03	-0.004	0.03	0.005
17	0.01	0.001	0.03	0.004	0.03	0.005
18	-0.01	-0.001	-0.01	-0.001	0.01	0.002
19	0.01	0.001	-0.02	-0.003	0.02	0.003
20	0.04	0.006	-0.02	-0.003	0.04	0.006
21	0.00	0.000	0.01	0.001	0.01	0.001
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.02	0.003	0.01	0.001	0.02	0.003
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.02	-0.003	0.01	0.001	0.02	0.003
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.01	0.001	0.00	0.000	0.01	0.001
29	0.02	0.003	0.00	0.000	0.02	0.003
30	0.02	0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

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WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 6 RATIO: 0.906 CHORD: 89.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.02	0.003	0.08	0.004	0.04	0.005
2	-0.05	-0.007	0.31	0.045	0.31	0.046
3	0.04	0.006	-0.05	-0.007	0.06	0.009
4	0.22	0.032	0.27	0.039	0.35	0.051
5	-0.04	-0.006	-0.03	-0.004	0.05	0.007
6	0.18	0.019	0.01	0.001	0.13	0.019
7	0.02	0.003	0.04	0.006	0.04	0.006
8	-0.01	-0.001	-0.35	-0.051	0.35	0.051
9	0.02	0.003	0.03	0.004	0.04	0.005
10	-0.20	-0.029	-0.01	-0.001	0.20	0.029
11	0.01	0.001	-0.02	-0.003	0.02	0.003
12	-0.05	-0.007	0.13	0.019	0.14	0.020
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.11	0.016	0.10	0.015	0.15	0.022
15	-0.01	-0.001	-0.01	-0.001	0.01	0.002
16	0.21	0.030	-0.09	-0.013	0.23	0.033
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.03	-0.004	-0.09	-0.013	0.09	0.014
19	0.00	0.000	0.01	0.001	0.01	0.001
20	-0.10	-0.015	0.02	0.003	0.10	0.015
21	0.00	0.000	-0.03	-0.004	0.03	0.004
22	-0.01	-0.001	0.04	0.006	0.04	0.006
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.02	0.003	0.00	0.000	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.01	-0.001	-0.02	-0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 7 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.24	0.035	-0.41	-0.059	0.48	0.069
2	-0.32	-0.046	-0.02	-0.003	0.32	0.047
3	0.15	0.022	0.08	0.012	0.17	0.025
4	0.00	0.000	0.03	0.004	0.03	0.004
5	0.03	0.004	-0.01	-0.001	0.03	0.005
6	0.01	0.001	-0.05	-0.007	0.05	0.007
7	0.00	0.000	0.04	0.006	0.04	0.006
8	-0.01	-0.001	-0.03	-0.004	0.03	0.005
9	0.04	0.006	0.50	0.000	0.04	0.006
10	0.00	0.000	0.00	0.000	0.00	0.000
11	0.01	0.001	0.03	0.004	0.03	0.005
12	-0.01	-0.001	-0.06	-0.009	0.06	0.009
13	-0.01	-0.001	0.01	0.001	0.01	0.002
14	-0.01	-0.001	0.00	0.000	0.01	0.001
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.01	-0.001	-0.01	-0.001	0.01	0.002
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

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WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.008
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 8 RATIO: 0.641 CHORD: 10.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.02	0.003	-0.01	-0.001	0.02	0.003
2	-0.16	-0.023	-0.16	-0.023	0.23	0.033
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	-0.02	-0.003	0.21	0.030	0.21	0.031
5	0.03	0.004	-0.02	-0.003	0.04	0.005
6	0.11	0.016	-0.07	-0.010	0.13	0.019
7	-0.05	-0.007	0.01	0.001	0.05	0.007
8	-0.10	-0.015	0.03	0.004	0.10	0.015
9	0.02	0.003	-0.02	-0.003	0.03	0.004
10	0.06	0.009	0.04	0.006	0.07	0.010
11	-0.03	-0.004	0.00	0.000	0.03	0.004
12	-0.06	-0.009	-0.01	-0.001	0.06	0.009
13	0.01	0.001	0.01	0.001	0.01	0.002
14	0.01	0.001	0.03	0.004	0.03	0.005
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	0.01	0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.04	0.006	-0.01	-0.001	0.04	0.006
20	0.01	0.001	0.01	0.001	0.01	0.002
21	0.02	0.003	0.03	0.004	0.04	0.005
22	0.01	0.001	0.00	0.000	0.01	0.001
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	-0.02	-0.003	0.02	0.003
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.02	-0.003	0.02	0.003
30	0.01	0.001	0.01	0.001	0.01	0.002
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

C-27

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
MACH NUMBER: 0.199 +/- 0.003
ADVANCE RATIO: 0.880 +/- 0.015
POWER COEFFICIENT: 0.250 +/- 0.001
BLADE ANGLE (DEG): 31.6 +/- 0.5
ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
TRANSDUCER: 10 RATIO: 0.641 CHORD: 36.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.03	0.004	-0.04	-0.006	0.05	0.007
2	-0.12	-0.017	-0.12	-0.017	0.17	0.025
3	-0.04	-0.006	-0.02	-0.003	0.04	0.006
4	-0.06	-0.009	0.15	0.022	0.16	0.023
5	0.06	0.009	-0.02	-0.003	0.06	0.009
6	0.14	0.020	-0.08	-0.012	0.16	0.023
7	-0.07	-0.010	0.01	0.001	0.07	0.010
8	-0.04	-0.006	-0.04	-0.006	0.06	0.008
9	0.00	0.000	0.00	0.000	0.00	0.000
10	0.04	0.006	0.05	0.007	0.06	0.009
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.05	0.007	0.00	0.000	0.05	0.007
13	-0.03	-0.004	0.00	0.000	0.03	0.004
14	0.00	0.000	0.02	0.003	0.02	0.003
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.01	0.001	0.03	0.004	0.03	0.005
17	0.00	0.000	0.01	0.001	0.01	0.001
18	0.01	0.001	-0.02	-0.003	0.02	0.003
19	0.01	0.001	0.03	0.004	0.03	0.005
20	0.01	0.001	-0.02	-0.003	0.02	0.003
21	0.01	0.001	0.01	0.001	0.01	0.002
22	0.00	0.000	0.04	0.006	0.04	0.006
23	-0.02	-0.003	0.01	0.001	0.02	0.003
24	-0.03	-0.004	0.00	0.000	0.03	0.004
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	0.00	0.000	0.00	0.000	0.00	0.000
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.02	0.003	0.00	0.000	0.02	0.003
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.03	-0.004	0.03	0.004

028

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.72	0.104	0.18	0.026	0.74	0.108
2	0.48	0.062	1.71	0.248	1.76	0.256
3	-0.25	-0.036	-1.49	-0.216	1.51	0.219
4	2.93	0.425	0.02	0.003	2.93	0.425
5	-0.52	-0.075	0.16	0.023	0.54	0.079
6	1.07	0.155	-1.59	-0.231	1.92	0.278
7	0.89	0.057	0.55	0.080	0.67	0.098
8	-1.57	-0.228	-0.39	-0.057	1.62	0.235
9	0.28	0.041	-0.12	-0.017	0.30	0.044
10	-0.90	-0.131	0.96	0.139	1.32	0.191
11	-0.26	-0.038	-0.14	-0.020	0.30	0.043
12	0.75	0.109	0.18	0.026	0.77	0.112
13	-0.83	-0.048	-0.01	-0.001	0.33	0.048
14	0.69	0.100	-0.55	-0.080	0.88	0.128
15	0.24	0.035	-0.09	-0.013	0.26	0.037
16	-0.28	-0.041	-0.12	-0.017	0.30	0.044
17	-0.11	-0.016	0.05	0.007	0.12	0.018
18	-0.14	-0.020	0.41	0.059	0.43	0.063
19	-0.15	-0.022	-0.10	-0.015	0.18	0.026
20	0.39	0.057	-0.14	-0.020	0.41	0.060
21	0.17	0.025	0.02	0.003	0.17	0.025
22	-0.04	-0.006	0.07	0.010	0.08	0.012
23	0.21	0.030	-0.22	-0.032	0.30	0.044
24	-0.34	-0.049	-0.03	-0.004	0.34	0.050
25	0.03	0.004	-0.20	-0.029	0.20	0.029
26	0.08	0.012	-0.05	-0.007	0.09	0.014
27	0.02	0.003	0.04	0.006	0.04	0.006
28	-0.03	-0.004	-0.07	-0.010	0.08	0.011
29	0.27	0.039	0.14	0.020	0.30	0.044
30	-0.26	-0.038	-0.22	-0.032	0.34	0.049
31	0.16	0.023	-0.11	-0.016	0.19	0.028
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.06	0.009	0.06	0.009	0.08	0.012
34	0.01	0.001	0.15	0.022	0.15	0.022
35	-0.17	-0.025	-0.02	-0.003	0.17	0.025

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WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.89	0.129	0.38	0.055	0.97	0.140
2	0.87	0.126	1.64	0.238	1.86	0.269
3	-0.54	-0.078	-1.44	-0.209	1.54	0.223
4	2.66	0.386	-1.55	-0.225	3.08	0.447
5	-0.41	-0.059	0.28	0.041	0.50	0.072
6	-0.05	-0.007	-1.68	-0.244	1.68	0.244
7	0.42	0.061	0.24	0.035	0.48	0.070
8	-1.15	-0.167	0.72	0.104	1.86	0.197
9	0.16	0.023	-0.33	-0.048	0.37	0.053
10	0.16	0.023	1.09	0.158	1.10	0.160
11	-0.13	-0.019	0.08	0.012	0.15	0.022
12	0.17	0.025	-0.28	-0.041	0.33	0.048
13	0.38	0.055	0.12	0.017	0.40	0.058
14	-0.48	-0.070	-0.02	-0.003	0.48	0.070
15	0.04	0.006	-0.11	-0.016	0.12	0.017
16	0.03	0.004	0.05	0.007	0.06	0.008
17	0.05	0.007	0.11	0.016	0.12	0.018
18	0.16	0.023	-0.09	-0.013	0.18	0.027
19	-0.01	-0.001	0.03	0.004	0.03	0.005
20	-0.08	-0.012	-0.26	-0.038	0.27	0.039
21	-0.07	-0.010	0.16	0.023	0.17	0.025
22	0.07	0.010	0.23	0.033	0.24	0.035
23	-0.43	-0.062	0.17	0.025	0.46	0.067
24	0.80	0.044	0.12	0.017	0.82	0.047
25	0.20	0.029	0.05	0.007	0.21	0.030
26	-0.03	-0.004	0.17	0.025	0.17	0.025
27	0.08	0.012	0.03	0.004	0.09	0.012
28	-0.34	-0.049	0.02	0.003	0.34	0.049
29	0.14	0.020	0.13	0.019	0.19	0.028
30	0.14	0.020	-0.05	-0.007	0.15	0.022
31	0.05	0.007	-0.08	-0.012	0.09	0.014
32	-0.01	-0.001	-0.09	-0.013	0.09	0.013
33	0.32	0.046	0.10	0.015	0.34	0.049
34	-0.03	-0.004	0.13	0.019	0.13	0.019
35	0.06	0.009	0.11	0.016	0.13	0.018

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE RADIUS PERCENT SUCTION
 TRANSDUCER: 23 RATIO: 0.641 CHORD: 86.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.04	-0.006	-0.18	-0.019	0.14	0.020
2	-0.17	-0.025	0.54	0.078	0.57	0.082
8	0.06	0.009	-0.04	-0.006	0.07	0.010
4	0.19	0.028	0.04	0.006	0.19	0.028
5	-0.04	-0.006	-0.06	-0.009	0.07	0.010
6	-0.14	-0.020	-0.07	-0.010	0.16	0.023
7	-0.04	-0.006	0.02	0.003	0.04	0.006
8	0.01	0.001	0.04	0.006	0.04	0.006
9	0.07	0.010	0.01	0.001	0.07	0.010
10	0.04	0.006	0.02	0.003	0.04	0.006
11	0.01	0.001	-0.03	-0.004	0.03	0.005
12	0.04	0.006	-0.03	-0.004	0.05	0.007
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	-0.05	-0.007	-0.01	-0.001	0.05	0.007
15	0.05	0.007	0.01	0.001	0.05	0.007
16	-0.04	-0.006	0.07	0.010	0.08	0.012
17	-0.01	-0.001	-0.03	-0.004	0.03	0.005
18	0.05	0.007	0.00	0.000	0.05	0.007
19	-0.06	-0.009	0.00	0.000	0.06	0.009
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	-0.02	-0.003	-0.03	-0.004	0.04	0.005
23	-0.02	-0.003	-0.01	-0.001	0.02	0.003
24	0.04	0.006	0.01	0.001	0.04	0.006
25	-0.02	-0.003	0.00	0.000	0.02	0.003
26	0.01	0.001	-0.02	-0.003	0.02	0.003
27	0.05	0.007	0.01	0.001	0.05	0.007
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	-0.02	-0.003	0.02	0.003
33	-0.05	-0.007	0.00	0.000	0.05	0.007
34	-0.03	-0.004	-0.02	-0.003	0.04	0.005
35	0.00	0.000	0.01	0.001	0.01	0.001

0-31

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.25	0.036	-0.27	-0.039	0.37	0.053
2	-0.35	-0.051	1.49	0.216	1.53	0.222
3	0.20	0.029	-0.25	-0.036	0.32	0.046
4	0.61	0.088	0.06	0.009	0.61	0.089
5	-0.14	-0.020	-0.16	-0.023	0.21	0.031
6	-0.15	-0.022	-0.11	-0.016	0.19	0.027
7	0.01	0.001	0.00	0.000	0.01	0.001
8	0.04	0.006	0.12	0.017	0.13	0.018
9	0.07	0.010	-0.04	-0.006	0.08	0.012
10	0.03	0.004	-0.13	-0.019	0.13	0.019
11	-0.05	-0.007	0.03	0.004	0.06	0.008
12	-0.06	-0.009	-0.11	-0.016	0.13	0.018
13	0.05	0.007	0.00	0.000	0.05	0.007
14	0.00	0.000	0.06	0.009	0.06	0.009
15	-0.04	-0.006	-0.08	-0.012	0.09	0.013
16	0.12	0.017	-0.09	-0.013	0.15	0.022
17	-0.07	-0.010	0.02	0.003	0.07	0.011
18	-0.04	-0.006	-0.05	-0.007	0.06	0.009
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.04	-0.006	0.02	0.003	0.04	0.006
21	-0.02	-0.003	-0.03	-0.004	0.04	0.005
22	0.00	0.000	0.02	0.003	0.02	0.003
23	0.02	0.003	0.05	0.007	0.05	0.008
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.01	0.001	0.04	0.006	0.04	0.006
26	-0.03	-0.004	-0.01	-0.001	0.03	0.005
27	-0.02	-0.003	0.00	0.000	0.02	0.003
28	-0.06	-0.009	0.01	0.001	0.06	0.009
29	0.04	0.006	0.00	0.000	0.04	0.006
30	0.04	0.006	0.11	0.016	0.12	0.017
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.03	-0.004	0.00	0.000	0.03	0.004
34	0.00	0.000	-0.02	-0.003	0.02	0.003
35	0.02	0.003	-0.03	-0.004	0.04	0.005

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 31.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.13	-0.019	-0.10	-0.015	0.16	0.024
2	0.33	0.048	0.83	0.120	0.89	0.130
3	0.03	0.004	0.18	0.026	0.18	0.026
4	0.32	0.046	-0.63	-0.091	0.71	0.102
5	-0.02	-0.003	0.07	0.010	0.07	0.011
6	-0.46	-0.067	0.09	0.013	0.47	0.068
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.40	0.058	0.14	0.020	0.42	0.061
9	-0.10	-0.015	-0.05	-0.007	0.11	0.016
10	-0.01	-0.001	-0.15	-0.023	0.16	0.023
11	0.00	0.000	0.01	0.001	0.01	0.001
12	-0.04	-0.006	0.23	0.033	0.23	0.034
13	-0.08	-0.012	0.02	0.003	0.08	0.012
14	0.11	0.016	-0.07	-0.010	0.13	0.019
15	-0.05	-0.007	0.04	0.006	0.06	0.009
16	-0.10	-0.015	0.00	0.000	0.10	0.015
17	0.02	0.003	0.07	0.010	0.07	0.011
18	0.06	0.009	0.10	0.015	0.12	0.017
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.06	0.009	-0.03	-0.004	0.07	0.010
21	-0.01	-0.001	0.04	0.006	0.04	0.006
22	0.02	0.003	-0.02	-0.003	0.03	0.004
23	-0.05	-0.007	0.02	0.003	0.05	0.008
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	0.02	0.003	-0.04	-0.006	0.04	0.006
26	0.04	0.006	0.05	0.007	0.06	0.009
27	0.00	0.000	-0.12	-0.017	0.12	0.017
28	0.03	0.004	-0.02	-0.003	0.04	0.005
29	-0.03	-0.004	0.11	0.016	0.11	0.017
30	0.08	0.012	0.02	0.003	0.08	0.012
31	0.04	0.006	-0.06	-0.009	0.07	0.010
32	-0.07	-0.010	-0.04	-0.006	0.08	0.012
33	-0.01	-0.001	0.01	0.001	0.01	0.002
34	-0.01	-0.001	-0.07	-0.010	0.07	0.010
35	0.08	0.004	0.06	0.009	0.07	0.010

WAKE INFLOW

RUN NUMBER 25

POINT NUMBER: 6
 MACH NUMBER: 0.199 +/- 0.003
 ADVANCE RATIO: 0.880 +/- 0.015
 POWER COEFFICIENT: 0.250 +/- 0.001
 BLADE ANGLE (DEG): 81.6 +/- 0.5
 ROTOR SPEED (RPM): 1671 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.22	-0.032	0.27	0.039	0.35	0.051
2	1.28	0.178	-0.29	-0.042	1.26	0.183
8	-0.20	-0.029	0.17	0.025	0.26	0.038
4	-0.74	-0.107	-0.90	-0.131	1.17	0.169
5	0.14	0.020	0.25	0.036	0.29	0.042
6	-0.24	-0.035	0.58	0.084	0.63	0.091
7	0.21	0.030	-0.09	-0.013	0.23	0.033
8	0.28	0.041	-0.36	-0.052	0.46	0.066
9	-0.06	-0.009	-0.03	-0.004	0.07	0.010
10	-0.16	-0.023	0.14	0.020	0.21	0.031
11	0.02	0.003	-0.01	-0.001	0.02	0.003
12	0.22	0.032	-0.16	-0.023	0.27	0.039
13	-0.04	-0.006	-0.03	-0.004	0.05	0.007
14	-0.15	-0.022	0.01	0.001	0.15	0.022
15	0.11	0.016	0.00	0.000	0.11	0.016
16	0.12	0.017	0.03	0.004	0.12	0.018
17	-0.07	-0.010	0.03	0.004	0.08	0.011
18	-0.07	-0.010	-0.16	-0.023	0.17	0.025
19	-0.04	-0.006	0.07	0.010	0.08	0.012
20	-0.04	-0.006	0.11	0.016	0.12	0.017
21	-0.08	-0.012	-0.03	-0.004	0.09	0.012
22	0.11	0.016	-0.04	-0.006	0.12	0.017
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	-0.02	-0.003	0.02	0.003
25	0.01	0.001	0.05	0.007	0.05	0.007
26	0.01	0.001	0.08	0.012	0.08	0.012
27	0.00	0.000	0.01	0.001	0.01	0.001
28	0.00	0.000	-0.02	-0.003	0.02	0.003
29	-0.03	-0.004	-0.04	-0.006	0.05	0.007
30	-0.02	-0.003	0.00	0.000	0.02	0.003
31	0.00	0.000	0.04	0.006	0.04	0.006
32	0.01	0.001	0.03	0.004	0.03	0.005
33	0.00	0.000	-0.03	-0.004	0.03	0.005
34	-0.01	-0.001	-0.04	-0.006	0.04	0.006
35	-0.01	-0.001	0.01	0.001	0.01	0.002

C-34

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.02	-0.008	0.07	0.011
2	0.12	0.017	-0.91	-0.132	0.92	0.133
8	-0.02	-0.003	0.00	0.000	0.02	0.003
4	-0.65	-0.094	0.46	0.067	0.80	0.115
5	-0.02	-0.003	0.01	0.001	0.02	0.003
6	0.10	0.015	1.26	0.183	1.26	0.183
7	0.05	0.007	-0.01	-0.001	0.05	0.007
8	0.26	0.038	-0.10	-0.015	0.28	0.040
9	-0.03	-0.004	0.00	0.000	0.03	0.004
10	0.01	0.001	-0.27	-0.039	0.27	0.039
11	0.00	0.000	-0.07	-0.010	0.07	0.010
12	0.02	0.003	0.17	0.025	0.17	0.025
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.14	0.020	-0.07	-0.010	0.16	0.023
15	-0.04	-0.006	0.04	0.006	0.06	0.008
16	-0.06	-0.009	-0.12	-0.017	0.13	0.019
17	0.01	0.001	0.02	0.003	0.02	0.003
18	-0.06	-0.009	0.07	0.010	0.09	0.013
19	0.01	0.001	0.02	0.003	0.02	0.003
20	0.06	0.009	0.04	0.006	0.07	0.010
21	0.01	0.001	-0.02	-0.003	0.02	0.003
22	0.02	0.003	-0.01	-0.001	0.02	0.003
23	0.00	0.000	0.01	0.001	0.01	0.001
24	-0.03	-0.004	-0.02	-0.003	0.04	0.005
25	0.02	0.003	0.02	0.003	0.03	0.004
26	-0.05	-0.007	-0.03	-0.004	0.06	0.008
27	0.04	0.006	0.02	0.003	0.04	0.006
28	0.00	0.000	0.02	0.003	0.02	0.003
29	0.03	0.004	0.00	0.000	0.03	0.004
30	0.02	0.003	0.01	0.001	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.03	-0.004	0.02	0.003	0.04	0.005
34	-0.01	-0.001	0.00	0.000	0.01	0.001
35	0.01	0.001	0.01	0.001	0.01	0.002

0-35

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.05	-0.007	0.02	0.003	0.05	0.008
2	0.00	0.000	-0.13	-0.019	0.18	0.019
8	0.00	0.000	0.02	0.003	0.02	0.003
4	-0.03	-0.004	0.36	0.052	0.36	0.052
5	0.02	0.003	-0.03	-0.004	0.04	0.005
6	0.61	0.088	0.53	0.077	0.81	0.117
7	-0.02	-0.003	-0.02	-0.003	0.03	0.004
8	0.10	0.015	-0.09	-0.018	0.18	0.020
9	-0.04	-0.006	0.03	0.004	0.05	0.007
10	-0.36	-0.052	-0.35	-0.051	0.50	0.073
11	0.03	0.004	-0.02	-0.003	0.04	0.005
12	-0.04	-0.006	0.09	0.013	0.10	0.014
18	0.00	0.000	0.00	0.000	0.00	0.000
14	0.04	0.006	0.12	0.017	0.18	0.018
15	-0.04	-0.006	-0.05	-0.007	0.06	0.009
16	0.07	0.010	-0.11	-0.016	0.18	0.019
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	-0.07	-0.010	-0.06	-0.009	0.09	0.013
19	0.01	0.001	0.00	0.000	0.01	0.001
20	-0.03	-0.004	0.03	0.004	0.04	0.006
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.01	0.001	0.03	0.004	0.03	0.005
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.05	0.007	-0.01	-0.001	0.05	0.007
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.01	0.001	-0.02	-0.003	0.02	0.003
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	0.00	0.000	-0.03	-0.004	0.03	0.004
31	-0.02	-0.003	0.01	0.001	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	-0.02	-0.003	0.02	0.003
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	-0.01	-0.001	0.01	0.001

0-36

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	-0.01	-0.001	0.01	0.001
2	0.06	0.009	-0.24	-0.035	0.25	0.036
3	0.03	0.004	-0.02	-0.003	0.04	0.005
4	0.17	0.025	-0.12	-0.017	0.21	0.030
5	0.00	0.000	-0.05	-0.007	0.05	0.007
6	0.35	0.051	0.31	0.088	0.70	0.102
7	-0.05	-0.007	-0.02	-0.003	0.05	0.008
8	0.37	0.054	0.05	0.007	0.37	0.054
9	-0.06	-0.009	0.00	0.000	0.06	0.009
10	-0.15	-0.022	-0.85	-0.051	0.88	0.055
11	-0.02	-0.003	0.04	0.006	0.04	0.006
12	-0.06	-0.009	0.02	0.003	0.06	0.009
13	0.02	0.003	0.00	0.000	0.02	0.003
14	-0.03	-0.004	0.14	0.020	0.14	0.021
15	0.00	0.000	-0.04	-0.006	0.04	0.006
16	0.03	0.004	-0.03	-0.004	0.04	0.006
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.02	-0.003	-0.06	-0.009	0.06	0.009
19	-0.04	-0.006	0.01	0.001	0.04	0.006
20	-0.05	-0.007	0.02	0.003	0.05	0.008
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.03	-0.004	0.03	0.004	0.04	0.006
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	-0.02	-0.003	0.02	0.003
26	0.02	0.003	0.00	0.000	0.02	0.003
27	-0.02	-0.003	-0.01	-0.001	0.02	0.003
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.01	0.001	0.01	0.001

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: S RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	-0.08	-0.012	0.10	0.015
2	-0.38	-0.055	-1.89	-0.202	1.44	0.209
3	-0.02	-0.003	0.10	0.015	0.10	0.015
4	-0.97	-0.141	0.84	0.122	1.28	0.186
5	0.06	0.009	-0.02	-0.003	0.06	0.009
6	0.41	0.059	0.45	0.065	0.61	0.088
7	-0.04	-0.006	-0.04	-0.006	0.06	0.008
8	0.01	0.001	-0.81	-0.045	0.31	0.045
9	-0.06	-0.009	0.06	0.009	0.08	0.012
10	-0.26	-0.038	0.22	0.032	0.34	0.049
11	0.05	0.007	0.01	0.001	0.05	0.007
12	0.17	0.025	-0.02	-0.003	0.17	0.025
13	-0.02	-0.003	-0.04	-0.006	0.04	0.006
14	-0.11	-0.016	-0.13	-0.019	0.17	0.025
15	-0.04	-0.006	0.02	0.003	0.04	0.006
16	0.00	0.000	0.03	0.004	0.03	0.004
17	0.02	0.003	0.01	0.001	0.02	0.003
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.01	0.001	0.01	0.001
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.04	0.006	-0.04	-0.006	0.06	0.008
23	0.01	0.001	0.00	0.000	0.01	0.001
24	-0.03	-0.004	-0.02	-0.003	0.04	0.006
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.02	0.003	0.01	0.001	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.02	-0.003	0.00	0.000	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

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WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.02	0.003	-0.03	-0.004	0.04	0.005
2	-0.19	-0.028	-1.18	-0.164	1.15	0.166
3	0.01	0.001	0.07	0.010	0.07	0.010
4	-0.67	-0.097	0.66	0.096	0.94	0.136
5	0.01	0.001	-0.02	-0.003	0.02	0.003
6	0.25	0.036	0.54	0.078	0.60	0.086
7	-0.01	-0.001	0.02	0.003	0.02	0.003
8	0.04	0.006	-0.21	-0.030	0.21	0.031
9	-0.04	-0.006	0.04	0.006	0.06	0.008
10	-0.24	-0.035	0.20	0.029	0.31	0.045
11	0.02	0.003	0.02	0.003	0.03	0.004
12	0.08	0.012	-0.03	-0.004	0.09	0.012
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	-0.15	-0.022	-0.03	-0.012	0.17	0.025
15	-0.04	-0.006	0.01	0.001	0.04	0.006
16	0.00	0.000	0.02	0.003	0.02	0.003
17	0.02	0.003	0.02	0.003	0.03	0.004
18	0.00	0.000	0.01	0.001	0.01	0.001
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.00	0.000	-0.04	-0.006	0.04	0.006
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	-0.02	-0.003	-0.01	-0.001	0.02	0.003
27	0.02	0.003	0.01	0.001	0.02	0.003
28	0.00	0.000	0.04	0.006	0.04	0.006
29	-0.02	-0.003	0.02	0.003	0.03	0.004
30	-0.01	-0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.01	0.001	0.01	0.001
32	-0.01	-0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	-0.01	-0.001	0.01	0.001

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.01	-0.001	0.07	0.010
2	-0.12	-0.017	-0.68	-0.091	0.64	0.098
8	0.00	0.000	0.05	0.007	0.05	0.007
4	-0.48	-0.062	0.58	0.077	0.68	0.099
5	0.05	0.007	-0.05	-0.007	0.07	0.010
6	0.29	0.042	0.89	0.057	0.49	0.070
7	-0.06	-0.009	0.04	0.006	0.07	0.010
8	0.10	0.015	-0.18	-0.019	0.16	0.024
9	-0.02	-0.003	0.03	0.004	0.04	0.005
10	-0.08	-0.012	0.16	0.023	0.18	0.026
11	0.02	0.003	0.00	0.000	0.02	0.003
12	0.09	0.013	-0.02	-0.003	0.09	0.013
18	0.00	0.000	-0.02	-0.003	0.02	0.003
14	-0.10	-0.015	-0.04	-0.006	0.11	0.016
15	0.00	0.000	0.05	0.007	0.05	0.007
16	-0.02	-0.003	0.03	0.004	0.04	0.005
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	-0.02	-0.003	0.01	0.001	0.02	0.003
19	-0.01	-0.001	0.01	0.001	0.01	0.002
20	-0.02	-0.003	-0.02	-0.003	0.03	0.004
21	0.01	0.001	0.02	0.003	0.02	0.003
22	-0.01	-0.001	0.03	0.004	0.03	0.005
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.02	0.003	-0.01	-0.001	0.02	0.003
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.02	0.003	0.02	0.003	0.03	0.004
80	0.01	0.001	-0.01	-0.001	0.01	0.002
81	0.00	0.000	-0.02	-0.003	0.02	0.003
82	0.00	0.000	0.01	0.001	0.01	0.001
83	0.00	0.000	0.00	0.000	0.00	0.000
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.01	0.001	0.00	0.000	0.01	0.001

0.40

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 11 RATIO: 0.641 CHORD: 50.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.01	0.001	0.01	0.001
2	-0.11	-0.016	-0.49	-0.071	0.50	0.073
3	0.01	0.001	0.07	0.010	0.07	0.010
4	-0.19	-0.028	0.49	0.071	0.53	0.076
5	0.00	0.000	-0.01	-0.001	0.01	0.001
6	0.39	0.057	0.39	0.057	0.55	0.080
7	-0.03	-0.004	0.02	0.003	0.04	0.005
8	0.00	0.000	-0.13	-0.019	0.13	0.019
9	0.01	0.001	0.02	0.003	0.02	0.003
10	0.01	0.001	0.17	0.025	0.17	0.025
11	0.01	0.001	-0.03	-0.004	0.03	0.005
12	0.06	0.009	0.03	0.004	0.07	0.010
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	0.02	0.003	0.02	0.003
15	0.02	0.003	0.02	0.003	0.03	0.004
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.05	0.007	-0.04	-0.006	0.06	0.009
21	0.00	0.000	-0.02	-0.003	0.02	0.003
22	-0.01	-0.001	0.03	0.004	0.03	0.005
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.02	-0.003	0.00	0.000	0.02	0.003
25	0.01	0.001	-0.03	-0.004	0.03	0.005
26	-0.06	-0.009	-0.05	-0.007	0.08	0.011
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	0.00	0.000	0.04	0.006	0.04	0.006
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.03	0.004	0.03	0.004
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	-0.02	-0.003	0.01	0.001	0.02	0.003
33	0.07	0.010	-0.06	-0.009	0.09	0.013
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.01	-0.001	0.00	0.000	0.01	0.001

(0.4)

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.600 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	0.01	0.001	0.02	0.003
2	-0.08	-0.012	-0.37	-0.054	0.38	0.055
8	0.00	0.000	0.05	0.007	0.05	0.007
4	-0.07	-0.010	0.44	0.064	0.45	0.065
5	0.02	0.003	-0.01	-0.001	0.02	0.003
6	0.51	0.074	0.35	0.051	0.62	0.090
7	-0.03	-0.004	0.01	0.001	0.03	0.005
8	0.00	0.000	-0.16	-0.023	0.16	0.023
9	0.00	0.000	0.03	0.004	0.03	0.004
10	0.01	0.001	0.13	0.019	0.13	0.019
11	0.04	0.006	-0.05	-0.007	0.06	0.009
12	0.07	0.010	0.04	0.006	0.08	0.012
18	-0.01	-0.001	0.00	0.000	0.01	0.001
14	0.04	0.006	-0.08	-0.004	0.05	0.007
15	0.01	0.001	0.03	0.004	0.03	0.005
16	-0.02	-0.003	0.00	0.000	0.02	0.003
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.02	0.003	0.01	0.001	0.02	0.003
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.04	0.006	-0.02	-0.003	0.04	0.006
21	-0.04	-0.006	-0.01	-0.001	0.04	0.006
22	0.02	0.003	0.01	0.001	0.02	0.003
28	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.01	0.001	-0.03	-0.004	0.03	0.005
26	-0.05	-0.007	-0.01	-0.001	0.05	0.007
27	0.01	0.001	-0.02	-0.003	0.02	0.003
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.01	0.001	0.02	0.003	0.02	0.003
80	-0.01	-0.001	0.02	0.003	0.02	0.003
81	0.00	0.000	0.02	0.003	0.02	0.003
82	0.00	0.000	0.00	0.000	0.00	0.000
88	0.05	0.007	0.05	0.007	0.07	0.010
84	0.02	0.003	0.00	0.000	0.02	0.003
85	0.00	0.000	0.01	0.001	0.01	0.001

0.42

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 13 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.01	0.001	0.01	0.001
2	-0.08	-0.012	-0.05	-0.007	0.09	0.014
3	0.01	0.001	0.05	0.007	0.05	0.007
4	0.07	0.010	0.84	0.049	0.35	0.050
5	0.01	0.001	-0.03	-0.004	0.08	0.005
6	0.58	0.084	-0.12	-0.017	0.59	0.086
7	0.01	0.001	-0.03	-0.004	0.03	0.005
8	0.03	0.004	-0.18	-0.026	0.18	0.026
9	-0.01	-0.001	0.04	0.006	0.04	0.006
10	-0.02	-0.003	0.02	0.003	0.03	0.004
11	0.03	0.004	-0.02	-0.003	0.04	0.005
12	0.04	0.006	0.05	0.007	0.06	0.009
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	0.03	0.004	-0.11	-0.016	0.11	0.017
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	-0.03	-0.004	-0.02	-0.003	0.04	0.005
17	0.02	0.003	0.01	0.001	0.02	0.003
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	-0.01	-0.001	-0.03	-0.004	0.03	0.005
20	0.00	0.000	0.00	0.000	0.00	0.000
21	-0.02	-0.003	0.00	0.000	0.02	0.003
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.02	0.003	0.04	0.006	0.04	0.006
26	0.01	0.001	0.03	0.004	0.03	0.005
27	0.05	0.007	0.01	0.001	0.05	0.007
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.04	0.006	0.04	0.006
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	0.00	0.000	0.00	0.000

C-43

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	-0.04	-0.006	0.04	0.006
2	-0.16	-0.023	0.34	0.049	0.38	0.054
3	0.00	0.000	0.03	0.004	0.03	0.004
4	0.02	0.003	0.01	0.001	0.02	0.003
5	-0.03	-0.004	0.01	0.001	0.03	0.005
6	-0.47	-0.068	-0.60	-0.087	0.76	0.111
7	0.02	0.003	0.05	0.007	0.05	0.008
8	-0.11	-0.016	0.03	0.004	0.11	0.017
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	0.08	0.012	0.41	0.059	0.42	0.061
11	0.04	0.006	0.00	0.000	0.04	0.006
12	0.06	0.009	-0.07	-0.010	0.09	0.013
13	-0.01	-0.001	0.00	0.000	0.01	0.001
14	-0.01	-0.001	-0.05	-0.007	0.05	0.007
15	0.00	0.000	0.01	0.001	0.01	0.001
16	-0.04	-0.006	0.05	0.007	0.06	0.009
17	0.03	0.004	0.03	0.004	0.04	0.006
18	0.03	0.004	0.05	0.007	0.06	0.008
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	0.02	0.003	-0.03	-0.004	0.04	0.005
21	-0.01	-0.001	-0.01	-0.001	0.01	0.002
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.04	-0.006	-0.01	-0.001	0.04	0.006
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.01	-0.001	0.02	0.003	0.02	0.003
27	-0.01	-0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	0.01	0.001	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.02	0.003	0.00	0.000	0.02	0.003
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.01	-0.001	0.01	0.001

C-44

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.04	-0.006	0.06	0.009	0.07	0.010
2	-0.19	-0.028	0.66	0.096	0.69	0.100
3	-0.02	-0.003	0.00	0.000	0.02	0.003
4	0.15	0.022	0.28	0.041	0.82	0.046
5	-0.07	-0.010	-0.01	-0.001	0.07	0.010
6	-0.50	-0.073	-1.11	-0.161	1.22	0.177
7	0.09	0.013	0.06	0.009	0.11	0.016
8	-0.43	-0.062	0.09	0.013	0.44	0.064
9	0.02	0.003	0.00	0.000	0.02	0.003
10	0.00	0.000	0.49	0.071	0.49	0.071
11	0.02	0.003	-0.03	-0.004	0.04	0.005
12	0.05	0.007	-0.11	-0.016	0.12	0.018
13	-0.02	-0.003	0.01	0.001	0.02	0.003
14	0.00	0.000	0.02	0.003	0.02	0.003
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	0.01	0.001	0.11	0.016	0.11	0.016
17	0.00	0.000	0.00	0.000	0.00	0.000
18	0.07	0.010	-0.01	-0.001	0.07	0.010
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.02	0.003	-0.07	-0.010	0.07	0.011
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.05	-0.007	0.01	0.001	0.05	0.007
23	-0.02	-0.003	-0.01	-0.001	0.02	0.003
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.00	0.000	0.02	0.003	0.02	0.003
26	0.01	0.001	-0.02	-0.003	0.02	0.003
27	0.01	0.001	0.03	0.004	0.03	0.005
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.01	0.001	-0.04	-0.006	0.04	0.006
30	0.00	0.000	0.01	0.001	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.01	0.001	0.01	0.001
35	0.00	0.000	0.00	0.000	0.00	0.000

0-45

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.02	-0.003	0.02	0.003	0.03	0.004
2	-0.02	-0.003	-0.05	-0.007	0.05	0.008
8	-0.01	-0.001	0.00	0.000	0.01	0.001
4	-0.19	-0.028	-0.13	-0.019	0.23	0.033
5	-0.01	-0.001	0.01	0.001	0.01	0.002
6	-0.62	-0.090	0.57	0.083	0.84	0.122
7	0.02	0.003	0.03	0.004	0.04	0.005
8	0.07	0.010	0.16	0.023	0.17	0.025
9	0.00	0.000	-0.03	-0.004	0.03	0.004
10	0.00	0.000	-0.04	-0.006	0.04	0.006
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.04	-0.006	-0.07	-0.010	0.08	0.012
13	0.02	0.003	0.01	0.001	0.02	0.003
14	0.01	0.001	0.03	0.012	0.08	0.012
15	0.01	0.001	-0.01	-0.001	0.01	0.002
16	0.04	0.006	0.05	0.007	0.06	0.009
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.02	-0.003	-0.01	-0.001	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	0.02	0.003	0.02	0.003
27	-0.01	-0.001	-0.05	-0.007	0.05	0.007
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.01	0.001	0.01	0.001	0.01	0.002
30	-0.01	-0.001	-0.02	-0.003	0.02	0.003
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	-0.02	-0.003	0.02	0.003
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	0.00	0.000	0.00	0.000

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WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.063 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 36.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.11	-0.016	0.08	0.004	0.11	0.017
2	0.05	0.007	0.42	0.061	0.42	0.061
8	0.00	0.000	-0.02	-0.003	0.02	0.003
4	0.36	0.052	-0.42	-0.061	0.55	0.080
5	-0.03	-0.004	-0.03	-0.004	0.04	0.006
6	-0.29	-0.042	-0.48	-0.070	0.56	0.081
7	0.00	0.000	0.04	0.006	0.04	0.006
8	-0.10	-0.015	0.30	0.044	0.32	0.046
9	0.04	0.006	-0.03	-0.004	0.05	0.007
10	0.24	0.035	-0.09	-0.013	0.26	0.037
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	-0.03	-0.004	-0.07	-0.010	0.08	0.011
13	0.01	0.001	0.04	0.006	0.04	0.006
14	0.00	0.000	0.05	0.007	0.05	0.007
15	0.02	0.003	0.00	0.000	0.02	0.003
16	0.05	0.007	0.05	0.007	0.07	0.010
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.03	0.004	-0.05	-0.007	0.06	0.008
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	-0.02	-0.003	0.01	0.001	0.02	0.003
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	0.01	0.001	0.01	0.002
23	0.02	0.003	-0.02	-0.003	0.03	0.004
24	0.02	0.003	-0.01	-0.001	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.03	-0.004	0.03	0.004
27	0.01	0.001	0.04	0.006	0.04	0.006
28	-0.03	-0.004	0.00	0.000	0.03	0.004
29	-0.03	-0.004	-0.01	-0.001	0.03	0.005
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	-0.02	-0.003	0.02	0.003
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	-0.01	-0.001	-0.02	-0.003	0.02	0.003
34	-0.02	-0.003	0.03	0.004	0.04	0.005
35	-0.01	-0.001	0.00	0.000	0.01	0.001

C-47

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 28.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.08	-0.012	0.05	0.007	0.09	0.014
2	0.14	0.020	0.79	0.115	0.80	0.116
8	0.02	0.003	-0.01	-0.001	0.02	0.003
4	0.55	0.080	-0.50	-0.073	0.74	0.108
5	-0.04	-0.006	0.02	0.003	0.04	0.006
6	-0.28	-0.041	-0.46	-0.067	0.54	0.078
7	0.03	0.004	0.09	0.018	0.09	0.014
8	-0.04	-0.006	0.85	0.051	0.85	0.051
9	0.03	0.004	-0.05	-0.007	0.06	0.008
10	0.82	0.046	-0.12	-0.017	0.84	0.050
11	0.00	0.000	0.00	0.000	0.00	0.000
12	-0.08	-0.012	-0.06	-0.009	0.10	0.015
18	0.02	0.003	0.02	0.003	0.08	0.004
14	0.01	0.001	0.14	0.020	0.14	0.020
15	0.00	0.000	-0.02	-0.003	0.02	0.003
16	0.04	0.006	0.02	0.003	0.04	0.006
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.00	0.000	-0.02	-0.003	0.02	0.003
19	0.01	0.001	0.00	0.000	0.01	0.001
20	-0.01	-0.001	0.03	0.004	0.08	0.005
21	0.00	0.000	0.01	0.001	0.01	0.001
22	0.01	0.001	0.03	0.004	0.08	0.005
23	0.00	0.000	-0.01	-0.001	0.01	0.001
24	0.00	0.000	0.04	0.006	0.04	0.006
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.02	0.003	0.01	0.001	0.02	0.003
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.03	0.004	-0.01	-0.001	0.08	0.005
80	-0.01	-0.001	0.00	0.000	0.01	0.001
81	-0.02	-0.003	-0.03	-0.004	0.04	0.005
82	-0.02	-0.003	0.00	0.000	0.02	0.003
88	0.00	0.000	-0.01	-0.001	0.01	0.001
84	0.00	0.000	0.00	0.000	0.00	0.000
85	0.00	0.000	-0.01	-0.001	0.01	0.001

0-48

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 8.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.08	-0.012	0.10	0.015	0.18	0.019
2	0.28	0.041	1.65	0.239	1.67	0.243
8	0.04	0.006	-0.04	-0.006	0.06	0.008
4	1.07	0.155	-0.75	-0.109	1.81	0.190
5	-0.07	-0.010	0.00	0.000	0.07	0.010
6	-0.44	-0.064	-0.59	-0.086	0.74	0.107
7	0.07	0.010	0.08	0.012	0.11	0.015
8	0.07	0.010	0.56	0.081	0.56	0.082
9	0.03	0.004	-0.09	-0.018	0.09	0.014
10	0.45	0.065	-0.21	-0.030	0.50	0.072
11	-0.04	-0.006	0.02	0.003	0.04	0.006
12	-0.22	-0.032	-0.10	-0.015	0.24	0.035
18	0.02	0.003	0.02	0.003	0.03	0.004
14	-0.02	-0.003	0.23	0.033	0.23	0.033
15	0.00	0.000	0.00	0.000	0.00	0.000
16	0.07	0.010	-0.01	-0.001	0.07	0.010
17	0.02	0.003	0.00	0.000	0.02	0.003
18	0.00	0.000	-0.05	-0.007	0.05	0.007
19	0.00	0.000	0.00	0.000	0.00	0.000
20	-0.03	-0.004	0.02	0.003	0.04	0.005
21	-0.01	-0.001	0.02	0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.02	0.003	0.02	0.003
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
80	-0.01	-0.001	-0.03	-0.004	0.03	0.005
81	0.02	0.003	0.02	0.003	0.03	0.004
82	-0.03	-0.004	0.00	0.000	0.03	0.004
88	0.01	0.001	0.00	0.000	0.01	0.001
84	0.01	0.001	0.00	0.000	0.01	0.001
85	0.00	0.000	0.00	0.000	0.00	0.000

C-49

WAKE INFLOW

RUN NUMBER 26

POINT NUMBER: 9
 MACH NUMBER: 0.500 +/- 0.002
 ADVANCE RATIO: 3.068 +/- 0.012
 POWER COEFFICIENT: 0.114 +/- 0.001
 BLADE ANGLE (DEG): 51.9 +/- 0.5
 ROTOR SPEED (RPM): 1190 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.15	-0.022	0.16	0.023	0.22	0.032
2	0.61	0.088	1.78	0.258	1.88	0.273
3	0.07	0.010	-0.12	-0.017	0.14	0.020
4	1.00	0.145	-1.09	-0.158	1.48	0.215
5	-0.16	-0.023	0.04	0.006	0.16	0.024
6	-0.68	-0.099	-0.23	-0.033	0.72	0.104
7	0.17	0.025	0.07	0.010	0.18	0.027
8	0.86	0.052	0.46	0.067	0.58	0.085
9	-0.01	-0.001	-0.18	-0.019	0.18	0.019
10	0.16	0.023	-0.48	-0.062	0.46	0.067
11	-0.07	-0.010	0.11	0.016	0.13	0.019
12	-0.30	-0.044	0.18	0.026	0.35	0.051
13	0.09	0.013	-0.04	-0.006	0.10	0.014
14	0.24	0.035	0.16	0.023	0.29	0.042
15	-0.04	-0.006	0.00	0.000	0.04	0.006
16	-0.05	-0.007	-0.09	-0.013	0.10	0.015
17	0.03	0.004	0.02	0.003	0.04	0.005
18	-0.03	-0.004	0.06	0.009	0.07	0.010
19	-0.02	-0.003	-0.01	-0.001	0.02	0.003
20	0.04	0.006	-0.07	-0.010	0.08	0.012
21	0.00	0.000	0.02	0.003	0.02	0.003
22	-0.01	-0.001	0.00	0.000	0.01	0.001
23	0.03	0.004	-0.03	-0.004	0.04	0.006
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.02	-0.003	-0.02	-0.003	0.03	0.004
27	0.01	0.001	0.04	0.006	0.04	0.006
28	0.04	0.006	0.01	0.001	0.04	0.006
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.04	-0.006	0.04	0.006	0.06	0.008
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.04	0.006	0.07	0.010	0.08	0.012
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	0.08	0.012	0.04	0.006	0.09	0.013
35	0.01	0.001	0.00	0.000	0.01	0.001

C-50

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	-0.02	-0.003	0.09	0.013
2	-0.08	-0.012	-0.49	-0.071	0.50	0.072
3	-0.04	-0.006	-0.10	-0.015	0.11	0.016
4	-0.12	-0.017	0.48	0.070	0.49	0.072
5	-0.05	-0.007	0.08	0.012	0.09	0.014
6	0.65	0.094	0.52	0.075	0.83	0.121
7	0.02	0.003	-0.02	-0.003	0.03	0.004
8	-0.01	-0.001	-0.10	-0.015	0.10	0.015
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	-0.14	-0.020	-0.06	-0.009	0.15	0.022
11	-0.04	-0.006	-0.02	-0.003	0.04	0.006
12	0.16	0.023	-0.08	-0.012	0.18	0.026
13	-0.02	-0.003	0.00	0.000	0.02	0.003
14	-0.13	-0.019	-0.11	-0.016	0.17	0.025
15	-0.03	-0.004	0.02	0.003	0.04	0.005
16	-0.07	-0.010	0.09	0.013	0.11	0.017
17	0.02	0.003	0.01	0.001	0.02	0.003
18	0.10	0.015	-0.03	-0.004	0.10	0.015
19	0.06	0.009	-0.04	-0.006	0.07	0.010
20	-0.01	-0.001	-0.03	-0.004	0.03	0.005
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	-0.04	-0.006	0.00	0.000	0.04	0.006
23	0.00	0.000	0.01	0.001	0.01	0.001
24	0.00	0.000	0.01	0.001	0.01	0.001
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.00	0.000	0.04	0.006	0.04	0.006
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	-0.02	-0.003	-0.01	-0.001	0.02	0.003
30	0.01	0.001	0.01	0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	-0.02	-0.003	0.00	0.000	0.02	0.003
33	-0.01	-0.001	0.02	0.003	0.02	0.003
34	0.00	0.000	0.01	0.001	0.01	0.001
35	-0.01	-0.001	-0.01	-0.001	0.01	0.002

051

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.868 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.18	-0.026	0.02	0.008	0.18	0.026
2	-0.03	-0.004	0.06	0.009	0.07	0.010
8	0.09	0.013	0.16	0.023	0.18	0.027
4	0.29	0.042	-0.11	-0.016	0.81	0.045
5	0.10	0.015	-0.16	-0.023	0.19	0.027
6	0.82	0.119	0.00	0.000	0.82	0.119
7	0.19	0.028	0.06	0.009	0.20	0.029
8	0.03	0.004	-0.14	-0.020	0.14	0.021
9	-0.01	-0.001	0.02	0.003	0.02	0.003
10	-0.48	-0.070	0.22	0.032	0.58	0.077
11	-0.06	-0.009	-0.05	-0.007	0.08	0.011
12	0.13	0.019	0.09	0.013	0.16	0.023
13	-0.02	-0.003	-0.02	-0.003	0.08	0.004
14	0.09	0.013	-0.15	-0.022	0.17	0.025
15	-0.02	-0.003	0.04	0.006	0.04	0.006
16	-0.17	-0.025	-0.04	-0.006	0.17	0.025
17	0.03	0.004	-0.02	-0.003	0.04	0.005
18	0.01	0.001	0.12	0.017	0.12	0.017
19	0.00	0.000	0.01	0.001	0.01	0.001
20	0.08	0.012	-0.08	-0.004	0.09	0.012
21	-0.01	-0.001	0.08	0.004	0.08	0.005
22	-0.05	-0.007	-0.08	-0.004	0.06	0.008
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.03	-0.004	0.05	0.007	0.06	0.008
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.02	0.003	0.02	0.003
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.00	0.000	0.01	0.001	0.01	0.001
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	0.02	0.003	0.00	0.000	0.02	0.003
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.02	0.003	-0.02	-0.003	0.08	0.004
35	0.01	0.001	0.00	0.000	0.01	0.001

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.368 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1188 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 6 RATIO: 0.906 CHORD: 89.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.01	-0.001	0.07	0.010
2	-0.04	-0.006	-0.28	-0.041	0.28	0.041
8	-0.02	-0.003	-0.11	-0.016	0.11	0.016
4	-0.09	-0.013	0.18	0.019	0.16	0.023
5	-0.08	-0.012	0.00	0.000	0.08	0.012
6	0.62	0.090	0.28	0.033	0.66	0.096
7	-0.08	-0.012	-0.01	-0.001	0.08	0.012
8	0.21	0.030	-0.27	-0.039	0.34	0.050
9	-0.01	-0.001	0.05	0.007	0.05	0.007
10	-0.37	-0.054	0.02	0.003	0.37	0.054
11	0.02	0.003	-0.01	-0.001	0.02	0.003
12	0.07	0.010	0.10	0.015	0.12	0.018
13	-0.02	-0.003	-0.02	-0.003	0.03	0.004
14	0.11	0.016	-0.09	-0.013	0.14	0.021
15	-0.08	-0.004	0.02	0.003	0.04	0.005
16	-0.09	-0.013	-0.02	-0.003	0.09	0.013
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.01	-0.001	0.11	0.016	0.11	0.016
19	0.01	0.001	0.00	0.000	0.01	0.001
20	0.09	0.013	-0.01	-0.001	0.09	0.013
21	-0.02	-0.003	0.00	0.000	0.02	0.003
22	0.00	0.000	-0.06	-0.009	0.06	0.009
23	0.00	0.000	0.00	0.000	0.00	0.000
24	-0.03	-0.004	0.03	0.004	0.04	0.006
25	0.01	0.001	-0.01	-0.001	0.01	0.002
26	0.02	0.003	0.01	0.001	0.02	0.003
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.02	0.003	0.01	0.001	0.02	0.003
29	0.01	0.001	0.00	0.000	0.01	0.001
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.01	0.001	0.02	0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.01	-0.001	-0.01	-0.001	0.01	0.002
35	0.01	0.001	-0.01	-0.001	0.01	0.002

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 8 RATIO: 0.641 CHORD: 10.0 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.07	0.010	-0.06	-0.009	0.09	0.018
2	-0.48	-0.062	-0.97	-0.141	1.06	0.154
3	-0.05	-0.007	0.08	0.012	0.09	0.014
4	-0.38	-0.055	0.82	0.119	0.90	0.131
5	0.05	0.007	-0.04	-0.006	0.06	0.009
6	0.48	0.070	0.18	0.026	0.51	0.074
7	-0.11	-0.016	0.03	0.004	0.11	0.017
8	-0.13	-0.019	-0.19	-0.028	0.23	0.038
9	0.07	0.010	0.05	0.007	0.09	0.012
10	0.05	0.007	0.27	0.039	0.27	0.040
11	-0.01	-0.001	-0.08	-0.012	0.08	0.012
12	0.04	0.006	-0.15	-0.022	0.16	0.023
13	0.00	0.000	0.05	0.007	0.05	0.007
14	-0.10	-0.015	0.10	0.015	0.14	0.021
15	0.03	0.004	-0.01	-0.001	0.03	0.005
16	0.03	0.004	0.00	0.000	0.03	0.004
17	-0.03	-0.004	0.00	0.000	0.03	0.004
18	-0.03	-0.004	-0.02	-0.003	0.04	0.005
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	-0.02	-0.003	0.00	0.000	0.02	0.003
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.01	0.001	0.01	0.001	0.01	0.002
25	0.01	0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.02	0.003	-0.04	-0.006	0.04	0.006
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.01	0.001	0.01	0.001	0.01	0.002
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	-0.02	-0.003	0.02	0.003
33	0.00	0.000	0.00	0.000	0.00	0.000
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	0.00	0.000	0.01	0.001

C-54

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.863 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	-0.37	-0.054	0.38	0.055
2	0.24	0.035	0.01	0.001	0.24	0.035
3	0.02	0.003	0.04	0.006	0.04	0.006
4	0.00	0.000	-0.04	-0.006	0.04	0.006
5	-0.03	-0.004	-0.03	-0.004	0.04	0.006
6	-0.02	-0.003	0.00	0.000	0.02	0.003
7	0.00	0.000	0.02	0.003	0.02	0.003
8	0.01	0.001	0.00	0.000	0.01	0.001
9	0.01	0.001	0.00	0.000	0.01	0.001
10	-0.01	-0.001	0.02	0.003	0.02	0.003
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	0.00	0.000	-0.01	-0.001	0.01	0.001
13	0.02	0.003	-0.01	-0.001	0.02	0.003
14	0.00	0.000	0.00	0.000	0.00	0.000
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.00	0.000	0.00	0.000	0.00	0.000
18	-0.01	-0.001	0.00	0.000	0.01	0.001
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	0.00	0.000	0.00	0.000	0.00	0.000
21	0.00	0.000	0.00	0.000	0.00	0.000
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
23	0.01	0.001	0.00	0.000	0.01	0.001
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	0.00	0.000	0.01	0.001	0.01	0.001
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.00	0.000	0.01	0.001	0.01	0.001
29	-0.01	-0.001	0.00	0.000	0.01	0.001
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	-0.02	-0.003	-0.02	-0.003	0.03	0.004
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.01	0.001	0.02	0.003	0.02	0.003

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.868 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 10 RATIO: 0.641 CHORD: 86.7 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.012	-0.01	-0.001	0.03	0.012
2	-0.28	-0.033	-0.58	-0.084	0.62	0.090
3	-0.06	-0.009	0.01	0.001	0.06	0.009
4	-0.18	-0.026	0.60	0.087	0.63	0.091
5	0.01	0.001	-0.01	-0.001	0.01	0.002
6	0.48	0.070	0.12	0.017	0.49	0.072
7	-0.07	-0.010	0.08	0.004	0.08	0.011
8	-0.09	-0.018	-0.14	-0.020	0.17	0.024
9	0.04	0.006	0.03	0.004	0.05	0.007
10	0.11	0.016	0.16	0.023	0.19	0.028
11	0.00	0.000	-0.04	-0.006	0.04	0.006
12	0.00	0.000	-0.09	-0.013	0.09	0.013
18	0.00	0.000	0.00	0.000	0.00	0.000
14	-0.03	-0.004	0.06	0.009	0.07	0.010
15	0.03	0.004	0.01	0.001	0.03	0.005
16	0.04	0.006	0.00	0.000	0.04	0.006
17	0.01	0.001	0.01	0.001	0.01	0.002
18	-0.02	-0.003	-0.04	-0.006	0.04	0.006
19	0.00	0.000	-0.01	-0.001	0.01	0.001
20	-0.03	-0.004	0.00	0.000	0.03	0.004
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.02	0.003	0.00	0.000	0.02	0.003
28	-0.01	-0.001	0.01	0.001	0.01	0.002
24	0.01	0.001	0.00	0.000	0.01	0.001
25	0.01	0.001	0.04	0.006	0.04	0.006
26	-0.01	-0.001	0.01	0.001	0.01	0.002
27	0.02	0.003	0.00	0.000	0.02	0.003
28	0.01	0.001	-0.03	-0.004	0.03	0.005
29	0.01	0.001	-0.01	-0.001	0.01	0.002
30	0.03	0.004	0.00	0.000	0.03	0.004
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.00	0.000	0.01	0.001	0.01	0.001
33	0.03	0.004	0.01	0.001	0.03	0.005
34	0.02	0.003	-0.02	-0.003	0.03	0.004
35	-0.01	-0.001	0.01	0.001	0.01	0.002

C-56

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	-0.01	-0.001	0.09	0.013
2	-0.27	-0.039	-0.52	-0.075	0.59	0.085
3	0.04	0.006	0.03	0.004	0.05	0.007
4	-0.03	-0.004	0.44	0.064	0.44	0.064
5	-0.06	-0.009	0.00	0.000	0.06	0.009
6	0.57	0.083	-0.03	-0.004	0.57	0.083
7	-0.02	-0.003	0.00	0.000	0.02	0.003
8	-0.19	-0.028	-0.05	-0.007	0.20	0.028
9	0.04	0.006	-0.01	-0.001	0.04	0.006
10	0.17	0.025	0.03	0.004	0.17	0.025
11	-0.04	-0.006	-0.08	-0.012	0.09	0.013
12	-0.04	-0.006	-0.09	-0.013	0.10	0.014
13	0.00	0.000	0.02	0.003	0.02	0.003
14	-0.05	-0.007	0.03	0.004	0.06	0.008
15	0.03	0.004	0.02	0.003	0.04	0.005
16	0.00	0.000	0.00	0.000	0.00	0.000
17	-0.01	-0.001	-0.01	-0.001	0.01	0.002
18	0.01	0.001	-0.04	-0.006	0.04	0.006
19	0.04	0.006	-0.04	-0.006	0.06	0.008
20	0.01	0.001	0.06	0.009	0.06	0.009
21	-0.02	-0.003	0.03	0.004	0.04	0.005
22	0.01	0.001	-0.01	-0.001	0.01	0.002
23	0.01	0.001	0.02	0.003	0.02	0.003
24	-0.01	-0.001	-0.01	-0.001	0.01	0.002
25	-0.02	-0.003	-0.01	-0.001	0.02	0.003
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.05	0.007	0.07	0.010	0.09	0.012
28	0.03	0.004	0.00	0.000	0.03	0.004
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	-0.02	-0.003	-0.01	-0.001	0.02	0.003
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.02	0.003	-0.04	-0.006	0.04	0.006
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	-0.01	-0.001	0.06	0.009	0.06	0.009
35	0.04	0.006	-0.04	-0.006	0.06	0.008

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 68.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.27	0.089	0.08	0.004	0.27	0.089
2	-0.48	-0.070	-0.99	-0.144	1.10	0.160
8	-0.19	-0.028	-0.48	-0.070	0.52	0.075
4	-0.15	-0.022	1.41	0.204	1.42	0.206
5	-0.26	-0.038	0.29	0.042	0.89	0.056
6	0.28	0.041	-0.20	-0.029	0.84	0.050
7	-0.26	-0.038	0.03	0.004	0.26	0.038
8	-0.20	-0.029	-0.08	-0.012	0.22	0.031
9	0.07	0.010	-0.01	-0.001	0.07	0.010
10	0.16	0.023	0.06	0.009	0.17	0.025
11	0.01	0.001	-0.18	-0.019	0.18	0.019
12	0.07	0.010	-0.11	-0.016	0.18	0.019
18	-0.01	-0.001	0.07	0.010	0.07	0.010
14	-0.08	-0.012	0.02	0.003	0.08	0.012
15	0.02	0.003	0.01	0.001	0.02	0.003
16	-0.01	-0.001	0.03	0.004	0.03	0.005
17	-0.04	-0.006	0.00	0.000	0.04	0.006
18	0.01	0.001	-0.01	-0.001	0.01	0.002
19	0.03	0.004	0.00	0.000	0.03	0.004
20	-0.01	-0.001	0.04	0.006	0.04	0.006
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.00	0.000	0.01	0.001	0.01	0.001
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	-0.01	-0.001	0.01	0.001	0.01	0.002
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.03	0.004	0.02	0.003	0.04	0.005
28	0.03	0.004	0.02	0.003	0.04	0.005
29	0.01	0.001	-0.01	-0.001	0.01	0.002
80	0.00	0.000	-0.01	-0.001	0.01	0.001
81	0.01	0.001	-0.03	-0.004	0.03	0.005
82	0.02	0.003	-0.03	-0.004	0.04	0.005
83	0.00	0.000	0.00	0.000	0.00	0.000
84	-0.06	-0.009	0.00	0.000	0.06	0.009
85	0.04	0.006	-0.01	-0.001	0.04	0.006

C-5K

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.868 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 18 RADIUS RATIO: 0.641 PERCENT CHORD: 88.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	0.02	0.003	0.06	0.009
2	-0.21	-0.030	-0.17	-0.025	0.27	0.039
3	-0.01	-0.001	-0.04	-0.006	0.04	0.006
4	0.08	0.012	0.46	0.067	0.47	0.068
5	-0.04	-0.006	0.04	0.006	0.06	0.008
6	0.83	0.048	-0.49	-0.071	0.59	0.086
7	-0.08	-0.012	0.00	0.000	0.08	0.012
8	-0.16	-0.023	-0.12	-0.017	0.20	0.029
9	0.03	0.004	0.03	0.004	0.04	0.006
10	0.01	0.001	0.07	0.010	0.07	0.010
11	-0.02	-0.003	-0.07	-0.010	0.07	0.011
12	0.08	0.012	-0.10	-0.015	0.13	0.019
13	-0.02	-0.003	0.02	0.003	0.03	0.004
14	-0.10	-0.015	0.00	0.000	0.10	0.015
15	0.01	0.001	0.01	0.001	0.01	0.002
16	0.00	0.000	0.03	0.004	0.03	0.004
17	-0.02	-0.003	-0.01	-0.001	0.02	0.003
18	0.04	0.006	-0.01	-0.001	0.04	0.006
19	0.01	0.001	-0.02	-0.003	0.02	0.003
20	0.00	0.000	0.05	0.007	0.05	0.007
21	0.00	0.000	0.02	0.003	0.02	0.003
22	0.03	0.004	0.02	0.003	0.04	0.005
23	0.01	0.001	-0.01	-0.001	0.01	0.002
24	0.01	0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.02	0.003	0.02	0.003
26	-0.01	-0.001	0.00	0.000	0.01	0.001
27	0.06	0.009	0.04	0.006	0.07	0.010
28	0.03	0.004	0.01	0.001	0.03	0.005
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	-0.04	-0.006	0.04	0.006
33	0.01	0.001	-0.01	-0.001	0.01	0.002
34	-0.01	-0.001	0.05	0.007	0.05	0.007
35	0.05	0.007	-0.01	-0.001	0.05	0.007

e-59

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.10	-0.015	0.01	0.001	0.10	0.015
2	0.04	0.006	0.44	0.064	0.44	0.064
3	0.05	0.007	0.50	0.073	0.50	0.073
4	0.21	0.030	-0.50	-0.073	0.54	0.079
5	0.15	0.022	-0.18	-0.019	0.20	0.029
6	-0.55	-0.080	0.07	0.010	0.55	0.080
7	0.25	0.036	0.14	0.020	0.29	0.042
8	0.14	0.020	0.10	0.015	0.17	0.025
9	-0.04	-0.006	0.04	0.006	0.06	0.008
10	0.31	0.045	-0.09	-0.013	0.32	0.047
11	-0.02	-0.003	-0.04	-0.006	0.04	0.006
12	-0.16	-0.023	0.03	0.004	0.16	0.024
13	0.04	0.006	-0.02	-0.003	0.04	0.006
14	0.00	0.000	0.10	0.015	0.10	0.015
15	0.01	0.001	-0.02	-0.003	0.02	0.003
16	0.11	0.016	-0.05	-0.007	0.12	0.018
17	0.01	0.001	-0.02	-0.003	0.02	0.003
18	-0.06	-0.009	-0.07	-0.010	0.09	0.013
19	-0.04	-0.006	0.00	0.000	0.04	0.006
20	-0.03	-0.004	0.03	0.004	0.04	0.006
21	0.02	0.003	0.05	0.007	0.05	0.008
22	0.02	0.003	0.04	0.006	0.04	0.006
23	0.04	0.006	-0.01	-0.001	0.04	0.006
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.02	0.003	-0.02	-0.003	0.03	0.004
26	-0.03	-0.004	0.00	0.000	0.03	0.004
27	-0.02	-0.003	-0.01	-0.001	0.02	0.003
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	-0.01	-0.001	0.02	0.003	0.02	0.003
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.02	0.003	-0.01	-0.001	0.02	0.003
32	-0.03	-0.004	0.01	0.001	0.03	0.005
33	-0.01	-0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	-0.01	-0.001	0.00	0.000	0.01	0.001

2-60

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.04	0.006	0.08	0.012
2	-0.11	-0.016	0.50	0.073	0.51	0.074
3	0.00	0.000	-0.03	-0.004	0.03	0.004
4	0.83	0.048	0.18	0.026	0.83	0.055
5	-0.04	-0.006	0.04	0.006	0.06	0.008
6	-1.01	-0.146	-0.53	-0.077	1.14	0.165
7	0.04	0.006	0.00	0.000	0.04	0.006
8	0.00	0.000	0.27	0.039	0.27	0.039
9	0.00	0.000	-0.01	-0.001	0.01	0.001
10	0.28	0.041	0.06	0.009	0.29	0.042
11	-0.02	-0.003	0.00	0.000	0.02	0.003
12	-0.17	-0.025	0.07	0.010	0.18	0.027
13	0.08	0.004	-0.02	-0.003	0.04	0.005
14	0.08	0.012	0.07	0.010	0.11	0.015
15	0.00	0.000	-0.07	-0.010	0.07	0.010
16	0.07	0.010	-0.02	-0.003	0.07	0.011
17	-0.05	-0.007	0.00	0.000	0.05	0.007
18	-0.09	-0.013	-0.10	-0.015	0.18	0.020
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.00	0.000	0.06	0.009	0.06	0.009
21	0.03	0.004	-0.02	-0.003	0.04	0.005
22	0.05	0.007	-0.02	-0.003	0.05	0.008
23	-0.01	-0.001	-0.03	-0.004	0.03	0.005
24	-0.01	-0.001	0.01	0.001	0.01	0.002
25	0.00	0.000	0.03	0.004	0.03	0.004
26	0.00	0.000	0.00	0.000	0.00	0.000
27	0.02	0.003	0.01	0.001	0.02	0.003
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.00	0.000	-0.01	-0.001	0.01	0.001
30	-0.03	-0.004	0.00	0.000	0.03	0.004
31	-0.02	-0.003	-0.01	-0.001	0.02	0.003
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.02	-0.003	0.00	0.000	0.02	0.003
34	-0.01	-0.001	-0.01	-0.001	0.01	0.002
35	0.01	0.001	0.00	0.000	0.01	0.001

661

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.3 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.02	0.003	-0.02	-0.003	0.03	0.004
2	-0.04	-0.006	-0.13	-0.019	0.14	0.020
3	-0.02	-0.003	-0.10	-0.015	0.10	0.015
4	-0.21	-0.030	0.30	0.044	0.37	0.053
5	-0.06	-0.009	0.06	0.009	0.08	0.012
6	-0.13	-0.019	0.56	0.081	0.57	0.083
7	-0.03	-0.004	-0.04	-0.006	0.05	0.007
8	0.14	0.020	0.03	0.004	0.14	0.021
9	-0.03	-0.004	-0.01	-0.001	0.03	0.005
10	-0.06	-0.009	-0.05	-0.007	0.08	0.011
11	0.03	0.004	-0.01	-0.001	0.03	0.005
12	-0.05	-0.007	0.05	0.007	0.07	0.010
13	-0.01	-0.001	0.02	0.003	0.02	0.003
14	0.07	0.010	0.00	0.000	0.07	0.010
15	-0.02	-0.003	0.02	0.003	0.03	0.004
16	0.02	0.003	-0.05	-0.007	0.05	0.008
17	0.01	0.001	0.02	0.003	0.02	0.003
18	0.00	0.000	-0.01	-0.001	0.01	0.001
19	0.03	0.004	-0.03	-0.004	0.04	0.006
20	0.00	0.000	0.04	0.006	0.04	0.006
21	-0.02	-0.003	0.01	0.001	0.02	0.003
22	0.00	0.000	-0.02	-0.003	0.02	0.003
23	0.02	0.003	0.01	0.001	0.02	0.003
24	-0.01	-0.001	0.02	0.003	0.02	0.003
25	0.00	0.000	0.00	0.000	0.00	0.000
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	-0.03	-0.004	0.03	0.004	0.04	0.006
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.00	0.000	0.00	0.000	0.00	0.000
31	0.00	0.000	-0.01	-0.001	0.01	0.001
32	0.03	0.004	0.00	0.000	0.03	0.004
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.00	0.000	-0.02	-0.003	0.02	0.003

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WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.07	-0.010	0.05	0.007	0.09	0.012
2	0.21	0.030	0.35	0.051	0.41	0.059
3	-0.03	-0.004	0.04	0.006	0.05	0.007
4	0.05	0.007	-0.44	-0.064	0.44	0.064
5	0.00	0.000	-0.08	-0.004	0.08	0.004
6	-0.45	-0.065	-0.08	-0.012	0.46	0.066
7	0.04	0.006	0.01	0.001	0.04	0.006
8	0.25	0.036	0.23	0.033	0.34	0.049
9	-0.04	-0.006	-0.02	-0.003	0.04	0.006
10	-0.05	-0.007	-0.26	-0.038	0.26	0.038
11	0.01	0.001	0.05	0.007	0.05	0.007
12	-0.05	-0.007	0.08	0.012	0.09	0.014
13	0.02	0.003	-0.03	-0.004	0.04	0.005
14	0.08	0.012	-0.05	-0.007	0.09	0.014
15	-0.02	-0.003	0.00	0.000	0.02	0.003
16	-0.02	-0.003	-0.04	-0.006	0.04	0.006
17	-0.01	-0.001	0.00	0.000	0.01	0.001
18	0.00	0.000	0.00	0.000	0.00	0.000
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	0.00	0.000	0.01	0.001	0.01	0.001
22	-0.01	-0.001	0.01	0.001	0.01	0.002
23	0.00	0.000	0.01	0.001	0.01	0.001
24	-0.01	-0.001	0.02	0.003	0.02	0.003
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	0.00	0.000	0.00	0.000
28	-0.02	-0.003	-0.01	-0.001	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	-0.03	-0.004	0.03	0.005
32	0.00	0.000	0.02	0.003	0.02	0.003
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.02	-0.003	0.00	0.000	0.02	0.003
35	0.01	0.001	0.01	0.001	0.01	0.002

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WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.08	-0.012	0.06	0.009	0.10	0.015
2	0.31	0.045	0.66	0.096	0.78	0.106
8	-0.01	-0.001	-0.01	-0.001	0.01	0.002
4	0.12	0.017	-0.55	-0.080	0.56	0.082
5	-0.04	-0.006	0.02	0.003	0.04	0.006
6	-0.47	-0.068	-0.07	-0.010	0.48	0.069
7	0.03	0.004	-0.02	-0.003	0.04	0.005
8	0.30	0.044	0.20	0.029	0.36	0.052
9	-0.03	-0.004	-0.04	-0.006	0.05	0.007
10	-0.06	-0.009	-0.35	-0.051	0.36	0.052
11	0.00	0.000	0.04	0.006	0.04	0.006
12	-0.04	-0.006	0.14	0.020	0.15	0.021
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
14	0.12	0.017	-0.06	-0.009	0.13	0.019
15	-0.04	-0.006	0.01	0.001	0.04	0.006
16	0.00	0.000	-0.05	-0.007	0.05	0.007
17	0.03	0.004	-0.02	-0.003	0.04	0.005
18	0.01	0.001	0.03	0.004	0.03	0.005
19	-0.01	-0.001	-0.02	-0.003	0.02	0.003
20	0.00	0.000	-0.01	-0.001	0.01	0.001
21	0.01	0.001	0.00	0.000	0.01	0.001
22	-0.01	-0.001	-0.03	-0.004	0.03	0.005
28	-0.01	-0.001	0.00	0.000	0.01	0.001
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.01	0.001	0.01	0.002
27	0.00	0.000	-0.01	-0.001	0.01	0.001
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	-0.01	-0.001	0.01	0.002
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.01	0.001	0.00	0.000	0.01	0.001
32	0.02	0.003	-0.02	-0.003	0.03	0.004
38	0.03	0.004	-0.02	-0.003	0.04	0.005
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.02	0.003	-0.03	-0.004	0.04	0.005

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WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.363 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.14	-0.020	0.18	0.019	0.19	0.028
2	0.64	0.093	1.50	0.218	1.63	0.237
3	0.03	0.004	-0.02	-0.003	0.04	0.005
4	0.42	0.061	-1.16	-0.168	1.23	0.179
5	-0.03	-0.004	0.04	0.006	0.05	0.007
6	-0.57	-0.083	-0.10	-0.015	0.58	0.084
7	0.15	0.022	0.02	0.003	0.15	0.022
8	0.50	0.073	0.19	0.028	0.53	0.078
9	-0.10	-0.015	-0.08	-0.012	0.18	0.019
10	-0.09	-0.013	-0.50	-0.073	0.51	0.074
11	0.02	0.003	0.08	0.012	0.08	0.012
12	-0.07	-0.010	0.23	0.033	0.24	0.035
13	0.03	0.004	-0.06	-0.009	0.07	0.010
14	0.20	0.029	-0.07	-0.010	0.21	0.031
15	-0.04	-0.006	0.02	0.003	0.04	0.006
16	-0.03	-0.004	-0.01	-0.001	0.03	0.005
17	0.06	0.009	0.00	0.000	0.06	0.009
18	0.03	0.004	-0.02	-0.003	0.04	0.005
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	-0.01	-0.001	-0.01	-0.001	0.01	0.002
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.02	0.003	0.00	0.000	0.02	0.003
23	0.00	0.000	-0.02	-0.003	0.02	0.003
24	0.00	0.000	-0.03	-0.004	0.03	0.004
25	-0.03	-0.004	0.01	0.001	0.03	0.005
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.01	0.001	0.00	0.000	0.01	0.001
28	-0.01	-0.001	-0.01	-0.001	0.01	0.002
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.01	-0.001	-0.01	-0.001	0.01	0.002
32	0.01	0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.00	0.000	0.00	0.000
34	-0.03	-0.004	0.02	0.003	0.04	0.005
35	0.02	0.003	0.00	0.000	0.02	0.003

C-65

WAKE INFLOW

RUN NUMBER 29

POINT NUMBER: 8
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.065 +/- 0.012
 POWER COEFFICIENT: 0.368 +/- 0.002
 BLADE ANGLE (DEG): 54.9 +/- 0.5
 ROTOR SPEED (RPM): 1183 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.24	-0.035	0.17	0.025	0.29	0.048
2	0.78	0.106	1.18	0.164	1.35	0.195
3	0.14	0.020	-0.01	-0.001	0.14	0.020
4	-0.07	-0.010	-1.12	-0.162	1.12	0.163
5	-0.04	-0.006	0.06	0.009	0.07	0.010
6	-0.30	-0.044	0.42	0.061	0.52	0.075
7	0.21	0.030	-0.10	-0.015	0.28	0.034
8	0.70	0.102	-0.23	-0.033	0.74	0.107
9	-0.20	-0.029	0.00	0.000	0.20	0.029
10	-0.55	-0.080	-0.48	-0.062	0.70	0.101
11	0.14	0.020	0.08	0.012	0.16	0.023
12	0.09	0.013	0.48	0.070	0.49	0.071
13	-0.02	-0.003	-0.14	-0.020	0.14	0.021
14	0.23	0.033	-0.26	-0.038	0.35	0.050
15	-0.06	-0.009	0.08	0.012	0.10	0.015
16	-0.18	-0.019	0.02	0.003	0.18	0.019
17	0.02	0.003	0.00	0.000	0.02	0.003
18	0.03	0.004	0.02	0.003	0.04	0.005
19	0.02	0.003	0.01	0.001	0.02	0.003
20	0.01	0.001	0.05	0.007	0.05	0.007
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.04	0.006	-0.01	-0.001	0.04	0.006
23	-0.05	-0.007	0.02	0.003	0.05	0.008
24	-0.05	-0.007	-0.02	-0.003	0.05	0.008
25	-0.02	-0.003	0.03	0.004	0.04	0.005
26	0.00	0.000	0.03	0.004	0.03	0.004
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.08	0.012	-0.01	-0.001	0.08	0.012
29	0.00	0.000	0.02	0.003	0.02	0.003
30	-0.07	-0.010	0.02	0.003	0.07	0.011
31	0.02	0.003	0.01	0.001	0.02	0.003
32	-0.01	-0.001	0.05	0.007	0.05	0.007
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.01	0.001	0.02	0.003	0.02	0.003
35	0.01	0.001	0.03	0.004	0.03	0.005

C-666

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 2 RADIUS RATIO: 0.906 PERCENT CHORD: 29.9 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.16	0.023	0.02	0.003	0.16	0.023
2	0.02	0.003	-0.81	-0.045	0.31	0.045
3	-0.01	-0.001	-0.12	-0.017	0.12	0.017
4	-0.31	-0.045	0.43	0.062	0.53	0.077
5	-0.07	-0.010	0.03	0.004	0.08	0.011
6	-0.11	-0.016	0.65	0.094	0.66	0.096
7	0.00	0.000	-0.04	-0.006	0.04	0.006
8	0.07	0.010	-0.18	-0.026	0.19	0.028
9	-0.06	-0.009	0.03	0.004	0.07	0.010
10	-0.18	-0.019	-0.05	-0.007	0.14	0.020
11	0.05	0.007	0.00	0.000	0.05	0.007
12	0.00	0.000	0.23	0.033	0.23	0.033
13	0.01	0.001	-0.03	-0.004	0.03	0.005
14	0.14	0.020	-0.02	-0.003	0.14	0.021
15	-0.01	-0.001	-0.02	-0.003	0.02	0.003
16	-0.01	-0.001	-0.13	-0.019	0.13	0.019
17	0.01	0.001	0.03	0.004	0.03	0.005
18	-0.10	-0.015	0.11	0.016	0.15	0.022
19	-0.01	-0.001	-0.01	-0.001	0.01	0.002
20	0.06	0.009	0.10	0.015	0.12	0.017
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.04	0.006	-0.01	-0.001	0.04	0.006
23	0.02	0.003	0.00	0.000	0.02	0.003
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	0.00	0.000	0.01	0.001	0.01	0.001
26	-0.02	-0.003	0.02	0.003	0.03	0.004
27	-0.04	-0.006	-0.01	-0.001	0.04	0.006
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	0.00	0.000	0.00	0.000
30	0.00	0.000	0.01	0.001	0.01	0.001
31	0.00	0.000	0.01	0.001	0.01	0.001
32	0.00	0.000	0.00	0.000	0.00	0.000
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	0.02	0.003	0.01	0.001	0.02	0.003
35	-0.01	-0.001	0.00	0.000	0.01	0.001

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WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 5 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.05	-0.007	-0.08	-0.004	0.06	0.008
2	0.04	0.006	0.04	0.006	0.06	0.008
8	0.00	0.000	0.28	0.041	0.28	0.041
4	0.18	0.019	0.05	0.007	0.14	0.020
5	0.14	0.020	-0.06	-0.009	0.15	0.022
6	0.28	0.041	0.66	0.096	0.72	0.104
7	0.09	0.018	0.15	0.022	0.17	0.025
8	0.17	0.025	-0.01	-0.001	0.17	0.025
9	-0.07	-0.010	-0.06	-0.009	0.09	0.018
10	-0.18	-0.026	-0.84	-0.049	0.88	0.056
11	0.00	0.000	-0.01	-0.001	0.01	0.001
12	-0.20	-0.029	0.14	0.020	0.24	0.035
18	0.05	0.007	0.00	0.000	0.05	0.007
14	0.18	0.019	0.18	0.019	0.18	0.027
15	-0.01	-0.001	-0.05	-0.007	0.05	0.007
16	0.21	0.030	-0.07	-0.010	0.22	0.032
17	-0.05	-0.007	0.01	0.001	0.05	0.007
18	-0.01	-0.001	-0.11	-0.016	0.11	0.016
19	-0.02	-0.003	0.00	0.000	0.02	0.003
20	-0.09	-0.013	0.04	0.006	0.10	0.014
21	0.00	0.000	0.00	0.000	0.00	0.000
22	0.03	0.004	0.06	0.009	0.07	0.010
28	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	-0.02	-0.003	0.03	0.004
25	0.02	0.003	0.00	0.000	0.02	0.003
26	-0.02	-0.003	-0.04	-0.006	0.04	0.006
27	0.02	0.003	0.01	0.001	0.02	0.003
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.00	0.000	-0.01	-0.001	0.01	0.001
80	0.01	0.001	0.01	0.001	0.01	0.002
81	-0.02	-0.003	0.00	0.000	0.02	0.003
82	0.00	0.000	-0.01	-0.001	0.01	0.001
88	0.00	0.000	0.06	0.009	0.06	0.009
84	0.06	0.009	0.01	0.001	0.06	0.009
85	-0.01	-0.001	-0.01	-0.001	0.01	0.002

C-68

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 6 RADIUS RATIO: 0.906 PERCENT CHORD: 89.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.16	0.023	0.03	0.004	0.16	0.024
2	-0.11	-0.016	-0.07	-0.010	0.18	0.019
3	0.05	0.007	-0.18	-0.026	0.19	0.027
4	-0.12	-0.017	0.44	0.064	0.46	0.066
5	-0.10	-0.015	-0.01	-0.001	0.10	0.015
6	0.18	0.026	0.60	0.087	0.63	0.091
7	-0.02	-0.003	-0.12	-0.017	0.12	0.018
8	0.27	0.039	0.04	0.006	0.27	0.040
9	-0.08	-0.012	-0.01	-0.001	0.08	0.012
10	-0.11	-0.016	-0.34	-0.049	0.36	0.052
11	-0.02	-0.003	0.01	0.001	0.02	0.003
12	-0.16	-0.023	0.11	0.016	0.19	0.028
13	0.01	0.001	0.00	0.000	0.01	0.001
14	0.09	0.013	0.17	0.025	0.19	0.028
15	0.01	0.001	-0.03	-0.004	0.03	0.005
16	0.15	0.022	-0.01	-0.001	0.15	0.022
17	-0.03	-0.004	0.01	0.001	0.03	0.005
18	-0.04	-0.006	-0.15	-0.022	0.16	0.023
19	-0.01	-0.001	0.02	0.003	0.02	0.003
20	-0.09	-0.013	-0.01	-0.001	0.09	0.013
21	0.02	0.003	0.01	0.001	0.02	0.003
22	-0.03	-0.004	0.08	0.012	0.09	0.012
23	0.01	0.001	0.01	0.001	0.01	0.002
24	0.02	0.003	0.02	0.003	0.03	0.004
25	-0.03	-0.004	0.02	0.003	0.04	0.005
26	-0.01	-0.001	-0.05	-0.007	0.05	0.007
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	-0.01	-0.001	0.01	0.001
29	0.00	0.000	0.01	0.001	0.01	0.001
30	0.00	0.000	0.02	0.003	0.02	0.003
31	0.00	0.000	-0.03	-0.004	0.03	0.004
32	-0.01	-0.001	-0.02	-0.003	0.02	0.003
33	0.01	0.001	0.05	0.007	0.05	0.007
34	0.00	0.000	-0.01	-0.001	0.01	0.001
35	0.02	0.003	0.00	0.000	0.02	0.003

c-69

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 8 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.06	0.009	-0.01	-0.001	0.06	0.009
2	0.07	0.010	-0.83	-0.120	0.83	0.121
8	-0.02	-0.003	0.06	0.009	0.06	0.009
4	-0.71	-0.103	0.21	0.030	0.74	0.107
5	0.01	0.001	-0.02	-0.003	0.02	0.003
6	0.03	0.004	0.45	0.065	0.45	0.065
7	-0.05	-0.007	-0.05	-0.007	0.07	0.010
8	0.16	0.023	-0.08	-0.012	0.18	0.026
9	-0.05	-0.007	0.07	0.010	0.09	0.012
10	-0.20	-0.029	0.05	0.007	0.21	0.030
11	0.09	0.013	0.01	0.001	0.09	0.013
12	0.15	0.022	0.09	0.013	0.17	0.025
18	-0.04	-0.006	-0.10	-0.015	0.11	0.016
14	0.01	0.001	-0.09	-0.013	0.09	0.013
15	-0.06	-0.009	0.03	0.004	0.07	0.010
16	-0.01	-0.001	0.01	0.001	0.01	0.002
17	0.07	0.010	0.00	0.000	0.07	0.010
18	0.04	0.006	0.03	0.004	0.05	0.007
19	-0.01	-0.001	-0.03	-0.004	0.03	0.005
20	0.00	0.000	-0.04	-0.006	0.04	0.006
21	-0.02	-0.003	0.03	0.004	0.04	0.005
22	-0.01	-0.001	-0.01	-0.001	0.01	0.002
23	0.03	0.004	0.01	0.001	0.03	0.005
24	0.00	0.000	-0.01	-0.001	0.01	0.001
25	-0.01	-0.001	-0.01	-0.001	0.01	0.002
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.02	0.003	0.02	0.003
28	-0.01	-0.001	0.01	0.001	0.01	0.002
29	0.02	0.003	0.00	0.000	0.02	0.003
80	0.01	0.001	-0.01	-0.001	0.01	0.002
81	0.00	0.000	0.01	0.001	0.01	0.001
82	0.00	0.000	0.00	0.000	0.00	0.000
83	0.00	0.000	0.00	0.000	0.00	0.000
84	-0.02	-0.003	0.00	0.000	0.02	0.003
85	0.01	0.001	0.00	0.000	0.01	0.001

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WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 9 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.22	0.032	0.03	0.004	0.22	0.032
2	0.03	0.004	-0.97	-0.141	0.97	0.141
3	0.03	0.004	-0.13	-0.019	0.13	0.019
4	-0.83	-0.120	0.42	0.061	0.93	0.135
5	-0.06	-0.009	0.00	0.000	0.06	0.009
6	0.02	0.003	0.48	0.070	0.48	0.070
7	-0.11	-0.016	-0.08	-0.012	0.14	0.020
8	0.21	0.030	-0.15	-0.022	0.26	0.037
9	-0.03	-0.004	0.08	0.012	0.09	0.012
10	-0.25	-0.036	0.03	0.004	0.25	0.037
11	0.08	0.012	0.02	0.003	0.08	0.012
12	0.13	0.019	0.10	0.015	0.16	0.024
13	-0.01	-0.001	-0.06	-0.009	0.06	0.009
14	0.08	0.012	-0.10	-0.015	0.13	0.019
15	-0.01	-0.001	0.00	0.000	0.01	0.001
16	-0.01	-0.001	-0.04	-0.006	0.04	0.006
17	-0.01	-0.001	0.01	0.001	0.01	0.002
18	-0.03	-0.004	0.05	0.007	0.06	0.008
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.03	0.004	-0.02	-0.003	0.04	0.005
21	0.01	0.001	0.00	0.000	0.01	0.001
22	0.01	0.001	-0.06	-0.009	0.06	0.009
23	0.01	0.001	0.01	0.001	0.01	0.002
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.01	0.001	0.00	0.000	0.01	0.001
27	0.00	0.000	0.00	0.000	0.00	0.000
28	0.00	0.000	0.00	0.000	0.00	0.000
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	0.01	0.001	0.04	0.006	0.04	0.006
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	-0.01	-0.001	0.01	0.002
34	0.00	0.000	0.00	0.000	0.00	0.000
35	0.01	0.001	-0.02	-0.003	0.02	0.003

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WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 10 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.08	0.012	0.01	0.001	0.08	0.012
2	0.00	0.000	-0.57	-0.083	0.57	0.083
3	0.04	0.006	0.01	0.001	0.04	0.006
4	-0.54	-0.078	0.86	0.052	0.65	0.094
5	0.00	0.000	-0.03	-0.004	0.03	0.004
6	0.15	0.022	0.47	0.068	0.49	0.072
7	-0.06	-0.009	-0.02	-0.003	0.06	0.009
8	0.19	0.028	-0.12	-0.017	0.22	0.033
9	-0.02	-0.003	0.04	0.006	0.04	0.006
10	-0.15	-0.022	0.06	0.009	0.16	0.023
11	0.04	0.006	0.01	0.001	0.04	0.006
12	0.15	0.022	0.05	0.007	0.16	0.023
13	-0.03	-0.004	-0.05	-0.007	0.06	0.008
14	0.03	0.004	-0.10	-0.015	0.10	0.015
15	-0.07	-0.010	0.01	0.001	0.07	0.010
16	-0.03	-0.004	-0.05	-0.007	0.06	0.008
17	0.02	0.003	0.03	0.004	0.04	0.005
18	0.02	0.003	0.03	0.004	0.04	0.005
19	0.01	0.001	-0.02	-0.003	0.02	0.003
20	0.02	0.003	-0.01	-0.001	0.02	0.003
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	-0.02	-0.003	0.00	0.000	0.02	0.003
23	0.02	0.003	0.01	0.001	0.02	0.003
24	-0.03	-0.004	0.02	0.003	0.04	0.005
25	0.00	0.000	0.02	0.003	0.02	0.003
26	0.01	0.001	0.00	0.000	0.01	0.001
27	-0.01	-0.001	0.01	0.001	0.01	0.002
28	-0.01	-0.001	0.00	0.000	0.01	0.001
29	0.01	0.001	0.01	0.001	0.01	0.002
30	-0.01	-0.001	-0.01	-0.001	0.01	0.002
31	0.01	0.001	0.01	0.001	0.01	0.002
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	0.00	0.000	-0.01	-0.001	0.01	0.001
34	-0.01	-0.001	0.01	0.001	0.01	0.002
35	0.00	0.000	0.01	0.001	0.01	0.001

C-72

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 11 RADIUS RATIO: 0.641 PERCENT CHORD: 50.0 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.16	0.023	0.11	0.016	0.19	0.028
2	-0.06	-0.009	-0.52	-0.075	0.52	0.076
3	0.07	0.010	-0.03	-0.004	0.08	0.011
4	-0.39	-0.057	0.45	0.065	0.60	0.086
5	-0.05	-0.007	0.05	0.007	0.07	0.010
6	0.30	0.044	0.38	0.055	0.48	0.070
7	-0.04	-0.006	-0.04	-0.006	0.06	0.008
8	0.06	0.009	-0.27	-0.039	0.28	0.040
9	-0.04	-0.006	0.07	0.010	0.08	0.012
10	-0.12	-0.017	0.12	0.017	0.17	0.025
11	0.06	0.009	-0.02	-0.003	0.06	0.009
12	0.10	0.015	0.04	0.006	0.11	0.016
13	-0.02	-0.003	-0.02	-0.003	0.03	0.004
14	0.01	0.001	-0.08	-0.012	0.08	0.012
15	-0.01	-0.001	0.05	0.007	0.05	0.007
16	0.00	0.000	0.04	0.006	0.04	0.006
17	0.02	0.003	0.00	0.000	0.02	0.003
18	0.01	0.001	0.04	0.006	0.04	0.006
19	-0.04	-0.006	-0.02	-0.003	0.04	0.006
20	0.07	0.010	-0.03	-0.004	0.08	0.011
21	-0.03	-0.004	-0.01	-0.001	0.03	0.005
22	0.00	0.000	0.00	0.000	0.00	0.000
23	0.03	0.004	-0.04	-0.006	0.05	0.007
24	0.00	0.000	-0.02	-0.003	0.02	0.003
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.03	-0.004	0.01	0.001	0.03	0.005
27	0.01	0.001	0.09	0.013	0.09	0.013
28	0.01	0.001	0.02	0.003	0.02	0.003
29	0.00	0.000	0.00	0.000	0.00	0.000
30	-0.01	-0.001	-0.03	-0.004	0.03	0.005
31	-0.01	-0.001	0.00	0.000	0.01	0.001
32	-0.01	-0.001	-0.01	-0.001	0.01	0.002
33	0.00	0.000	0.01	0.001	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	-0.01	-0.001	0.01	0.001	0.01	0.002

C-73

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 12 RADIUS RATIO: 0.641 PERCENT CHORD: 63.3 PRESSURE SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.78	0.118	0.81	0.045	0.84	0.122
2	-0.14	-0.020	-0.87	-0.126	0.88	0.128
3	0.12	0.017	-0.71	-0.103	0.72	0.104
4	-0.95	-0.138	1.84	0.194	1.64	0.238
5	-0.34	-0.049	0.10	0.015	0.35	0.051
6	0.29	0.042	0.18	0.019	0.32	0.046
7	-0.27	-0.039	-0.80	-0.044	0.40	0.059
8	0.09	0.013	-0.36	-0.052	0.37	0.054
9	0.00	0.000	0.17	0.025	0.17	0.025
10	-0.19	-0.028	0.08	0.012	0.21	0.030
11	0.09	0.013	-0.01	-0.001	0.09	0.013
12	0.08	0.012	0.12	0.017	0.14	0.021
13	-0.08	-0.012	-0.06	-0.009	0.10	0.015
14	0.03	0.004	-0.05	-0.007	0.06	0.008
15	0.01	0.001	0.03	0.004	0.03	0.005
16	0.00	0.000	0.00	0.000	0.00	0.000
17	0.04	0.006	0.00	0.000	0.04	0.006
18	0.00	0.000	0.05	0.007	0.05	0.007
19	-0.01	-0.001	0.00	0.000	0.01	0.001
20	0.02	0.003	-0.03	-0.004	0.04	0.005
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	0.01	0.001	0.01	0.001	0.01	0.002
23	0.03	0.004	-0.01	-0.001	0.03	0.005
24	-0.02	-0.003	0.01	0.001	0.02	0.003
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.04	0.006	0.04	0.006	0.06	0.008
27	0.01	0.001	0.01	0.001	0.01	0.002
28	0.01	0.001	-0.01	-0.001	0.01	0.002
29	-0.03	-0.004	0.01	0.001	0.03	0.005
30	0.00	0.000	-0.01	-0.001	0.01	0.001
31	-0.03	-0.004	-0.02	-0.003	0.04	0.005
32	-0.02	-0.003	0.02	0.003	0.03	0.004
33	0.01	0.001	0.01	0.001	0.01	0.002
34	0.01	0.001	0.03	0.004	0.03	0.005
35	0.00	0.000	0.00	0.000	0.00	0.000

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WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE RADIUS PERCENT PRESSURE
 TRANSDUCER: 13 RATIO: 0.641 CHORD: 83.8 SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.09	0.013	0.05	0.007	0.10	0.015
2	-0.10	-0.015	-0.13	-0.028	0.21	0.031
8	0.03	0.004	-0.05	-0.007	0.06	0.008
4	-0.18	-0.026	0.49	0.071	0.52	0.076
5	-0.08	-0.004	0.02	0.003	0.04	0.005
6	0.59	0.086	0.08	0.012	0.60	0.086
7	-0.06	-0.009	-0.06	-0.009	0.08	0.012
8	0.07	0.010	-0.25	-0.036	0.26	0.038
9	-0.03	-0.004	0.07	0.010	0.08	0.011
10	-0.16	-0.023	0.01	0.001	0.16	0.023
11	0.05	0.007	0.00	0.000	0.05	0.007
12	0.01	0.001	0.13	0.019	0.13	0.019
13	0.00	0.000	-0.02	-0.003	0.02	0.003
14	0.09	0.013	0.00	0.000	0.09	0.013
15	0.00	0.000	0.00	0.000	0.00	0.000
16	-0.03	-0.004	0.00	0.000	0.03	0.004
17	0.02	0.003	-0.01	-0.001	0.02	0.003
18	0.03	0.004	0.06	0.009	0.07	0.010
19	0.00	0.000	0.00	0.000	0.00	0.000
20	0.03	0.004	0.04	0.006	0.05	0.007
21	-0.01	-0.001	0.00	0.000	0.01	0.001
22	0.02	0.003	-0.01	-0.001	0.02	0.003
23	0.01	0.001	-0.02	-0.003	0.02	0.003
24	-0.01	-0.001	0.00	0.000	0.01	0.001
25	-0.01	-0.001	0.00	0.000	0.01	0.001
26	0.03	0.004	0.01	0.001	0.03	0.005
27	0.00	0.000	0.02	0.003	0.02	0.003
28	-0.02	-0.003	0.00	0.000	0.02	0.003
29	0.01	0.001	0.01	0.001	0.01	0.002
30	0.01	0.001	-0.01	-0.001	0.01	0.002
31	0.00	0.000	0.00	0.000	0.00	0.000
32	0.00	0.000	0.03	0.004	0.03	0.004
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	0.00	0.000	0.01	0.001
35	0.00	0.000	0.01	0.001	0.01	0.001

c-75

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 15 RADIUS RATIO: 0.906 PERCENT CHORD: 69.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.00	0.000	0.03	0.004	0.03	0.004
2	-0.28	-0.033	1.42	0.206	1.44	0.209
8	-0.06	-0.009	0.15	0.022	0.16	0.023
4	1.26	0.183	0.28	0.041	1.29	0.187
5	0.01	0.001	-0.09	-0.013	0.09	0.013
6	0.49	0.071	-1.34	-0.194	1.43	0.207
7	-0.10	-0.015	0.31	0.045	0.33	0.047
8	-0.38	-0.055	-0.65	-0.094	0.75	0.109
9	-0.01	-0.001	0.01	0.001	0.01	0.002
10	-0.69	-0.100	0.30	0.044	0.75	0.109
11	0.09	0.013	0.02	0.003	0.09	0.013
12	-0.05	-0.007	0.57	0.083	0.57	0.083
18	0.04	0.006	-0.03	-0.004	0.05	0.007
14	0.42	0.061	0.15	0.022	0.45	0.065
15	-0.02	-0.003	-0.03	-0.004	0.04	0.005
16	0.23	0.033	-0.33	-0.048	0.40	0.058
17	-0.07	-0.010	0.01	0.001	0.07	0.010
18	-0.16	-0.023	-0.30	-0.044	0.34	0.049
19	-0.01	-0.001	0.06	0.009	0.06	0.009
20	-0.32	-0.046	0.05	0.007	0.32	0.047
21	0.03	0.004	0.03	0.004	0.04	0.006
22	-0.03	-0.004	0.26	0.038	0.26	0.038
23	0.04	0.006	-0.01	-0.001	0.04	0.006
24	0.22	0.032	0.14	0.020	0.26	0.038
25	0.03	0.004	-0.06	-0.009	0.07	0.010
26	0.15	0.022	-0.11	-0.016	0.19	0.027
27	-0.04	-0.006	-0.07	-0.010	0.08	0.012
28	-0.02	-0.003	-0.19	-0.028	0.19	0.028
29	-0.08	-0.012	0.00	0.000	0.08	0.012
30	-0.18	-0.019	-0.01	-0.001	0.18	0.019
31	0.01	0.001	0.03	0.012	0.08	0.012
32	-0.06	-0.009	0.07	0.010	0.09	0.013
33	0.04	0.006	0.03	0.004	0.05	0.007
34	0.02	0.003	0.06	0.009	0.06	0.009
35	0.03	0.004	-0.01	-0.001	0.03	0.005

WAKE INFLOW

RUN NUMBER 30

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 16 RADIUS RATIO: 0.906 PERCENT CHORD: 56.5 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.13	0.019	0.00	0.000	0.13	0.019
2	-0.03	-0.004	2.05	0.297	2.05	0.297
3	-0.03	-0.004	-0.23	-0.033	0.23	0.034
4	1.68	0.244	0.83	0.048	1.71	0.248
5	-0.23	-0.033	0.02	0.003	0.23	0.033
6	0.14	0.020	-2.59	-0.376	2.59	0.376
7	-0.04	-0.006	0.10	0.015	0.11	0.016
8	-1.42	-0.206	-0.80	-0.044	1.45	0.210
9	0.05	0.007	0.04	0.006	0.06	0.009
10	-0.41	-0.059	1.28	0.186	1.34	0.195
11	0.04	0.006	-0.05	-0.007	0.06	0.009
12	0.92	0.133	0.34	0.049	0.98	0.142
13	0.00	0.000	-0.01	-0.001	0.01	0.001
14	0.32	0.046	-0.77	-0.112	0.83	0.121
15	-0.01	-0.001	0.01	0.001	0.01	0.002
16	-0.57	-0.083	-0.47	-0.068	0.74	0.107
17	-0.04	-0.006	-0.01	-0.001	0.04	0.006
18	-0.40	-0.058	0.38	0.055	0.55	0.080
19	0.07	0.010	0.01	0.001	0.07	0.010
20	0.20	0.029	0.47	0.068	0.51	0.074
21	0.07	0.010	-0.02	-0.003	0.07	0.011
22	0.32	0.046	-0.07	-0.010	0.33	0.048
23	-0.01	-0.001	-0.08	-0.012	0.08	0.012
24	0.00	0.000	-0.33	-0.048	0.33	0.048
25	-0.06	-0.009	-0.01	-0.001	0.06	0.009
26	-0.22	-0.032	-0.05	-0.007	0.23	0.033
27	0.00	0.000	0.05	0.007	0.05	0.007
28	-0.10	-0.015	0.18	0.026	0.21	0.030
29	0.04	0.006	0.02	0.003	0.04	0.006
30	0.09	0.013	0.06	0.009	0.11	0.016
31	0.02	0.003	-0.02	-0.003	0.03	0.004
32	0.05	0.007	-0.05	-0.007	0.07	0.010
33	-0.01	-0.001	-0.02	-0.003	0.02	0.003
34	-0.02	-0.003	-0.04	-0.006	0.04	0.006
35	0.00	0.000	0.01	0.001	0.01	0.001

G-77

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 20 RADIUS RATIO: 0.641 PERCENT CHORD: 83.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	0.17	0.025	0.05	0.007	0.18	0.026
2	-0.01	-0.001	-0.26	-0.038	0.26	0.038
8	0.02	0.003	-0.27	-0.039	0.27	0.039
4	-0.47	-0.068	0.24	0.035	0.58	0.077
5	-0.11	-0.016	0.04	0.006	0.12	0.017
6	-0.70	-0.102	0.15	0.022	0.72	0.104
7	-0.07	-0.010	-0.18	-0.019	0.15	0.021
8	0.06	0.009	0.22	0.032	0.23	0.033
9	-0.01	-0.001	-0.01	-0.001	0.01	0.002
10	0.09	0.013	-0.09	-0.013	0.13	0.018
11	-0.04	-0.006	0.00	0.000	0.04	0.006
12	-0.07	-0.010	-0.10	-0.015	0.12	0.018
18	0.02	0.003	0.02	0.003	0.03	0.004
14	-0.05	-0.007	0.01	0.001	0.05	0.007
15	0.01	0.001	-0.03	-0.004	0.03	0.005
16	0.06	0.009	0.00	0.000	0.06	0.009
17	-0.03	-0.004	0.01	0.001	0.03	0.005
18	-0.01	-0.001	-0.02	-0.003	0.02	0.003
19	-0.01	-0.001	0.05	0.007	0.05	0.007
20	-0.03	-0.004	0.03	0.004	0.04	0.006
21	-0.02	-0.003	-0.01	-0.001	0.02	0.003
22	0.02	0.003	0.04	0.006	0.04	0.006
23	-0.02	-0.003	-0.01	-0.001	0.02	0.003
24	0.01	0.001	-0.01	-0.001	0.01	0.002
25	0.01	0.001	-0.02	-0.003	0.02	0.003
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.00	0.000	0.02	0.003	0.02	0.003
28	0.00	0.000	0.01	0.001	0.01	0.001
29	0.01	0.001	0.00	0.000	0.01	0.001
80	0.02	0.003	0.00	0.000	0.02	0.003
81	-0.03	-0.004	0.03	0.004	0.03	0.004
82	-0.01	-0.001	0.04	0.006	0.04	0.006
83	0.00	0.000	0.01	0.001	0.01	0.001
84	0.01	0.001	0.00	0.000	0.01	0.001
85	-0.01	-0.001	0.00	0.000	0.01	0.001

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WAKE INFLOW

RUN NUMBER 30

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 28 RADIUS RATIO: 0.641 PERCENT CHORD: 86.7 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.12	-0.017	0.03	0.004	0.12	0.018
2	0.05	0.007	0.38	0.055	0.38	0.056
3	0.00	0.000	0.03	0.004	0.03	0.004
4	0.85	0.051	-0.29	-0.042	0.45	0.066
5	0.02	0.003	0.00	0.000	0.02	0.003
6	-0.16	-0.023	-0.38	-0.055	0.41	0.060
7	0.04	0.006	0.02	0.003	0.04	0.006
8	-0.18	-0.026	0.29	0.042	0.34	0.050
9	0.03	0.004	-0.04	-0.006	0.05	0.007
10	0.20	0.029	0.05	0.007	0.21	0.030
11	0.01	0.001	0.01	0.001	0.01	0.002
12	-0.03	-0.004	-0.05	-0.007	0.06	0.008
13	0.05	0.007	-0.01	-0.001	0.05	0.007
14	-0.06	-0.009	0.04	0.006	0.07	0.010
15	0.00	0.000	-0.03	-0.004	0.03	0.004
16	-0.01	-0.001	0.03	0.004	0.03	0.005
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.00	0.000	0.01	0.001	0.01	0.001
19	0.04	0.006	0.03	0.004	0.05	0.007
20	-0.01	-0.001	0.00	0.000	0.01	0.001
21	0.01	0.001	-0.03	-0.004	0.03	0.005
22	0.00	0.000	0.00	0.000	0.00	0.000
23	-0.03	-0.004	0.01	0.001	0.03	0.005
24	0.03	0.004	-0.02	-0.003	0.04	0.005
25	0.01	0.001	0.00	0.000	0.01	0.001
26	-0.01	-0.001	-0.01	-0.001	0.01	0.002
27	0.03	0.004	-0.03	-0.004	0.04	0.006
28	-0.02	-0.003	0.01	0.001	0.02	0.003
29	-0.02	-0.003	0.00	0.000	0.02	0.003
30	0.01	0.001	0.03	0.004	0.03	0.005
31	-0.02	-0.003	-0.04	-0.006	0.04	0.006
32	0.00	0.000	-0.02	-0.003	0.02	0.003
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.01	0.001	-0.01	-0.001	0.01	0.002
35	0.00	0.000	-0.01	-0.001	0.01	0.001

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 8.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 24 RADIUS RATIO: 0.641 PERCENT CHORD: 23.8 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.05	-0.007	0.09	0.018	0.10	0.015
2	0.03	0.004	0.78	0.106	0.78	0.106
3	0.05	0.007	-0.04	-0.006	0.06	0.009
4	0.48	0.070	-0.28	-0.041	0.56	0.081
5	-0.09	-0.013	0.01	0.001	0.09	0.013
6	-0.16	-0.023	-0.43	-0.062	0.46	0.067
7	0.03	0.004	0.00	0.000	0.03	0.004
8	-0.18	-0.026	0.81	0.045	0.86	0.052
9	0.04	0.006	-0.03	-0.004	0.05	0.007
10	0.28	0.041	0.00	0.000	0.28	0.041
11	-0.01	-0.001	0.02	0.003	0.02	0.003
12	-0.09	-0.013	-0.14	-0.020	0.17	0.024
13	0.03	0.004	0.02	0.003	0.04	0.005
14	-0.12	-0.017	0.04	0.006	0.13	0.018
15	0.00	0.000	-0.01	-0.001	0.01	0.001
16	0.00	0.000	0.06	0.009	0.06	0.009
17	0.00	0.000	-0.01	-0.001	0.01	0.001
18	0.05	0.007	-0.01	-0.001	0.05	0.007
19	0.00	0.000	0.02	0.003	0.02	0.003
20	-0.01	-0.001	0.01	0.001	0.01	0.002
21	0.00	0.000	-0.01	-0.001	0.01	0.001
22	0.00	0.000	0.03	0.004	0.03	0.004
23	0.00	0.000	0.00	0.000	0.00	0.000
24	0.02	0.003	0.00	0.000	0.02	0.003
25	0.00	0.000	-0.01	-0.001	0.01	0.001
26	0.00	0.000	-0.01	-0.001	0.01	0.001
27	0.01	0.001	0.00	0.000	0.01	0.001
28	0.01	0.001	0.02	0.003	0.02	0.003
29	0.01	0.001	-0.04	-0.006	0.04	0.006
30	0.01	0.001	0.00	0.000	0.01	0.001
31	0.01	0.001	-0.01	-0.001	0.01	0.002
32	0.00	0.000	-0.01	-0.001	0.01	0.001
33	-0.01	-0.001	-0.01	-0.001	0.01	0.002
34	-0.04	-0.006	-0.01	-0.001	0.04	0.006
35	-0.01	-0.001	0.01	0.001	0.01	0.002

2-80

WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.003
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 25 RADIUS RATIO: 0.641 PERCENT CHORD: 10.0 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.17	-0.025	0.15	0.022	0.23	0.033
2	0.07	0.010	1.80	0.261	1.80	0.261
3	0.08	0.012	-0.01	-0.001	0.08	0.012
4	1.24	0.180	-0.63	-0.091	1.39	0.202
5	-0.10	-0.015	0.02	0.003	0.10	0.015
6	-0.33	-0.048	-0.61	-0.088	0.69	0.101
7	0.07	0.010	0.21	0.030	0.22	0.032
8	-0.14	-0.020	0.62	0.090	0.64	0.092
9	0.12	0.017	-0.15	-0.022	0.19	0.028
10	0.59	0.086	-0.07	-0.010	0.59	0.086
11	-0.17	-0.025	-0.01	-0.001	0.17	0.025
12	-0.21	-0.030	-0.35	-0.051	0.41	0.059
13	0.05	0.007	0.15	0.022	0.16	0.023
14	-0.19	-0.028	0.14	0.020	0.24	0.034
15	0.06	0.009	-0.08	-0.012	0.10	0.015
16	0.10	0.015	0.09	0.013	0.13	0.020
17	-0.10	-0.015	-0.04	-0.006	0.11	0.016
18	0.07	0.010	-0.06	-0.009	0.09	0.013
19	-0.01	-0.001	0.08	0.012	0.08	0.012
20	-0.06	-0.009	-0.01	-0.001	0.06	0.009
21	0.03	0.004	-0.03	-0.004	0.04	0.006
22	-0.04	-0.006	0.06	0.009	0.07	0.010
23	-0.04	-0.006	-0.03	-0.004	0.05	0.007
24	0.03	0.004	0.00	0.000	0.03	0.004
25	0.00	0.000	0.03	0.004	0.03	0.004
26	0.01	0.001	-0.01	-0.001	0.01	0.002
27	0.01	0.001	-0.01	-0.001	0.01	0.002
28	0.00	0.000	0.00	0.000	0.00	0.000
29	0.04	0.006	0.03	0.004	0.05	0.007
30	0.02	0.003	-0.02	-0.003	0.03	0.004
31	-0.02	-0.003	0.01	0.001	0.02	0.003
32	0.00	0.000	0.00	0.000	0.00	0.000
33	0.01	0.001	0.00	0.000	0.01	0.001
34	0.00	0.000	0.00	0.000	0.00	0.000
35	-0.02	-0.003	0.00	0.000	0.02	0.003

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WAKE INFLOW

RUN NUMBER 80

POINT NUMBER: 7
 MACH NUMBER: 0.501 +/- 0.002
 ADVANCE RATIO: 3.067 +/- 0.012
 POWER COEFFICIENT: 0.650 +/- 0.008
 BLADE ANGLE (DEG): 58.4 +/- 0.5
 ROTOR SPEED (RPM): 1187 +/- 1

PRESSURE TRANSDUCER: 26 RADIUS RATIO: 0.641 PERCENT CHORD: 4.9 SUCTION SIDE

K	A		B		AMPLITUDE	
	(KPA)	(PSI)	(KPA)	(PSI)	(KPA)	(PSI)
1	-0.17	-0.025	0.11	0.016	0.20	0.029
2	0.97	0.141	8.18	0.454	8.28	0.475
8	0.06	0.009	-0.11	-0.016	0.18	0.018
4	1.81	0.263	-2.00	-0.290	2.70	0.391
5	-0.18	-0.026	0.07	0.010	0.19	0.028
6	-1.64	-0.238	-0.89	-0.057	1.69	0.244
7	0.25	0.036	0.26	0.038	0.86	0.052
8	0.60	0.087	1.88	0.193	1.46	0.212
9	0.12	0.017	-0.26	-0.038	0.29	0.042
10	0.77	0.112	-0.98	-0.142	1.25	0.181
11	-0.25	-0.036	0.07	0.010	0.26	0.038
12	-0.94	-0.136	-0.10	-0.015	0.95	0.187
18	0.20	0.029	0.18	0.019	0.24	0.035
14	0.24	0.035	0.52	0.075	0.57	0.083
15	0.00	0.000	-0.15	-0.022	0.15	0.022
16	0.20	0.029	-0.28	-0.041	0.34	0.050
17	-0.12	-0.017	0.07	0.010	0.14	0.020
18	-0.24	-0.035	-0.06	-0.009	0.25	0.036
19	0.06	0.009	0.05	0.007	0.08	0.011
20	0.02	0.003	0.14	0.020	0.14	0.021
21	-0.04	-0.006	-0.06	-0.009	0.07	0.010
22	0.05	0.007	0.00	0.000	0.05	0.007
23	-0.03	-0.004	0.01	0.001	0.03	0.005
24	0.04	0.006	-0.01	-0.001	0.04	0.006
25	0.04	0.006	0.02	0.003	0.04	0.006
26	0.03	0.004	0.00	0.000	0.03	0.004
27	-0.01	-0.001	-0.06	-0.009	0.06	0.009
28	0.04	0.006	0.00	0.000	0.04	0.006
29	-0.05	-0.007	0.02	0.003	0.05	0.008
80	-0.01	-0.001	-0.02	-0.003	0.02	0.003
81	0.01	0.001	0.08	0.012	0.08	0.012
82	0.00	0.000	0.01	0.001	0.01	0.001
83	0.08	0.012	-0.05	-0.007	0.09	0.014
84	0.02	0.003	0.00	0.000	0.02	0.003
85	-0.05	-0.007	-0.06	-0.009	0.08	0.011

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APPENDIX D

TUNNEL AND PROP-FAN OPERATING CONDITIONS

TUNNEL AND PROP-FAN OPERATING CONDITIONS

POINT	MN	J	CP	BETA	PSTAT	TSTAT	RHO	INFLOW CONDITION
2	0.017	0.103	0.096	14.95	88503.	284.4	1.084	3 DEGREE TILT
3	0.026	0.157	0.155	19.12	88478.	286.3	1.077	"
4	0.030	0.184	0.204	22.11	88457.	287.5	1.072	"
5	0.200	0.883	0.101	25.99	86130.	284.4	1.055	"
5A	0.200	0.879	0.149	27.21	86146.	283.8	1.058	"
5B	0.200	0.881	0.200	29.50	86143.	283.9	1.057	"
6	0.199	0.881	0.251	31.56	86160.	284.4	1.056	"
9	0.500	3.069	0.112	52.01	74856.	276.5	0.943	"
8	0.500	3.062	0.361	55.51	74862.	277.8	0.939	"
7	0.500	3.065	0.649	59.41	74905.	279.0	0.935	"
10	0.598	3.065	0.226	53.89	69805.	276.7	0.879	"
11	0.700	3.058	0.216	53.89	64165.	275.8	0.811	"
4	0.029	0.178	0.204	22.17	88020.	285.7	1.073	WAKE POST
5	0.200	0.885	0.101	26.04	85693.	284.1	1.051	"
5A	0.199	0.883	0.151	27.39	85699.	284.4	1.050	"
5B	0.199	0.881	0.202	29.66	85689.	285.0	1.048	"
6	0.199	0.880	0.250	31.60	85697.	285.6	1.046	"
9	0.500	3.063	0.114	51.92	74453.	278.7	0.931	"
8	0.501	3.064	0.363	54.86	74261.	273.0	0.948	"
7	0.501	3.066	0.650	58.35	74282.	275.2	0.941	"
4	0.022	0.137	0.208	22.18	87563.	288.6	1.057	UNIFORM
5	0.201	0.881	0.100	25.97	85226.	285.5	1.040	"
5A	0.200	0.883	0.152	28.15	85255.	285.1	1.042	"
5B	0.200	0.882	0.201	29.77	85249.	285.2	1.041	"
6	0.199	0.880	0.249	32.35	85262.	285.8	1.039	"
9	0.500	3.069	0.109	52.34	74067.	277.9	0.929	"
8	0.500	3.063	0.360	55.47	74088.	279.4	0.924	"
7	0.499	3.066	0.653	58.50	74119.	281.1	0.919	"

KEY : MN - INFLOW MACH NUMBER
 J - ADVANCE RATIO
 CP - POWER COEFFICIENT
 BETA - OPERATING BLADE ANGLE IN DEGREES (104.1 CM)
 PSTAT - TUNNEL STATIC PRESSURE (PASCALS)
 TSTAT - TUNNEL STATIC TEMPERATURE (DEGREES K)
 RHO - AIR DENSITY (KG/M**3)