Timestamp, Temperature (°C), Relative Humidity (%), Ambient Pressure (kPa), Wind Speed (m/s), Wind Direction (°), Solar Radiation (W/m^2), Fan Frequency (Hz), BL Thickness (mm), Boundary Layer Type, U (m/s), V (m/s), W (m/s), Lift (N), Drag (N), Pressure (kPa)

2023-09-01 08:00:00, 20.5, 55, 101.3, 4.5, 230, 250, 40, 2.5, Turbulent, 8.2, 0.3, 0.1, 25.6, 12.8, 98.5

2023-09-01 09:00:00, 21.0, 58, 101.2, 5.0, 240, 260, 45, 2.7, Turbulent, 8.5, 0.4, 0.2, 26.3, 13.5, 98.7

2023-09-01 10:00:00, 21.5, 60, 101.1, 5.3, 250, 280, 50, 2.9, Turbulent, 8.8, 0.5, 0.3, 27.1, 14.2, 98.9

2023-09-01 11:00:00, 22.0, 62, 101.0, 5.6, 260, 300, 55, 3.1, Turbulent, 9.1, 0.6, 0.4, 27.8, 14.9, 99.2

2023-09-01 12:00:00, 22.5, 63, 100.9, 5.8, 270, 320, 60, 3.2, Turbulent, 9.4, 0.7, 0.5, 28.6, 15.6, 99.4

2023-09-01 13:00:00, 23.0, 65, 100.8, 6.0, 280, 350, 65, 3.4, Turbulent, 9.7, 0.8, 0.6, 29.3, 16.3, 99.6

2023-09-01 14:00:00, 23.5, 67, 100.7, 6.2, 290, 380, 70, 3.6, Turbulent, 10.0, 0.9, 0.7, 30.1, 17.0, 99.8

2023-09-01 15:00:00, 20.5, 55, 101.3, 4.5, 230, 250, 40, 2.5, Turbulent, 8.2, 0.3, 0.1, 25.6, 12.8, 98.5

2023-09-01 16:00:00, 21.0, 58, 101.2, 5.0, 240, 260, 45, 2.7, Turbulent, 8.5, 0.4, 0.2, 26.3, 13.5, 98.7

2023-09-01 17:00:00, 21.5, 60, 101.1, 5.3, 250, 280, 50, 2.9, Turbulent, 8.8, 0.5, 0.3, 27.1, 14.2, 98.9

2023-09-01 18:00:00, 22.0, 62, 101.0, 5.6, 260, 300, 55, 3.1, Turbulent, 9.1, 0.6, 0.4, 27.8, 14.9, 99.2

2023-09-01 19:00:00, 22.5, 63, 100.9, 5.8, 270, 320, 60, 3.2, Turbulent, 9.4, 0.7, 0.5, 28.6, 15.6, 99.4

2023-09-01 20:00:00, 23.0, 65, 100.8, 6.0, 280, 350, 65, 3.4, Turbulent, 9.7, 0.8, 0.6, 29.3, 16.3, 99.6

2023-09-01 21:00:00, 23.5, 67, 100.7, 6.2, 290, 380, 70, 3.6, Turbulent, 10.0, 0.9, 0.7, 30.1, 17.0, 99.8

Explanation of Columns:

Timestamp: Date and time of the measurement.

Temperature (°C): Ambient air temperature.

Relative Humidity (%): Relative humidity of the air.

Ambient Pressure (kPa): Atmospheric pressure.

Wind Speed (m/s): Wind speed within the tunnel.

Wind Direction (°): Wind direction within the tunnel.

Solar Radiation (W/m^2): Solar radiation level, if applicable.

Fan Frequency (Hz): Frequency of the wind tunnel fan.

BL Thickness (mm): Boundary layer thickness.

Boundary Layer Type: Type of boundary layer observed (e.g., laminar, turbulent).

U (m/s): Velocity component U.

V (m/s): Velocity component V.

W (m/s): Velocity component W.

Lift (N): Lift force measured in the experiment.

Drag (N): Drag force measured in the experiment.

Pressure (kPa): Pressure measurements at specific points.

This dataset includes typical data points from a wind tunnel experiment, including environmental conditions, wind tunnel settings, boundary layer parameters, and experimental results.