<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>N 40° 34' 8.339&quot;</td>
</tr>
<tr>
<td>Longitude</td>
<td>W 105° 35' 17.520&quot;</td>
</tr>
<tr>
<td>Elevation</td>
<td>2767 m</td>
</tr>
<tr>
<td>Start date</td>
<td>8/14/2010 00:00</td>
</tr>
<tr>
<td>End date</td>
<td>11/1/2014 15:00</td>
</tr>
<tr>
<td>Duration</td>
<td>4.2 years</td>
</tr>
<tr>
<td>Length of time step</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Calm threshold</td>
<td>0.34 m/s</td>
</tr>
<tr>
<td>Mean temperature</td>
<td>4.90 °C</td>
</tr>
<tr>
<td>Mean pressure</td>
<td>72.19 kPa</td>
</tr>
<tr>
<td>Mean air density</td>
<td>0.906 kg/m³</td>
</tr>
<tr>
<td>Power density at 50m</td>
<td>365 W/m²</td>
</tr>
<tr>
<td>Wind power class</td>
<td>3 (Fair)</td>
</tr>
<tr>
<td>Power law exponent</td>
<td>0.178</td>
</tr>
<tr>
<td>Surface roughness</td>
<td>0.0937 m</td>
</tr>
<tr>
<td>Roughness class</td>
<td>1.95</td>
</tr>
</tbody>
</table>

![Monthly Statistics for Temperature](image-url)
Wind Speed and Direction

Monthly Wind Speed Profile

Diurnal Wind Speed Profile

Probability Distribution Function

Wind Direction Frequency

Mean Wind Speed

Total Wind Energy
Wind Shear

Vertical Wind Shear Profile

Daily Wind Shear Profile

Monthly Wind Shear Profile

Power Law Exponent
Turbulence Intensity

Turbulence Intensity at 34 m

- Wind Speed (m/s)
- Turbulence Intensity

- Representative TI
- Mean TI

Turbulence Intensity at 34 m

- Month
- Turbulence Intensity

- Representative TI
- Mean TI

Turbulence Intensity at 34 m

- Hour of Day
- Turbulence Intensity

- Representative TI
- Mean TI
<table>
<thead>
<tr>
<th>#</th>
<th>Label</th>
<th>Units</th>
<th>Height</th>
<th>Possible Data Points</th>
<th>Valid Data Points</th>
<th>Recovery Rate (%)</th>
<th>Mean</th>
<th>Min</th>
<th>Max</th>
<th>Std. Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Speed 34 m A</td>
<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
<td>100.00</td>
<td>6.051</td>
<td>0.390</td>
<td>31.830</td>
<td>4.400</td>
</tr>
<tr>
<td>2</td>
<td>Speed 34 m A SD</td>
<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
<td>100.00</td>
<td>1.293</td>
<td>0.000</td>
<td>6.890</td>
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<tr>
<td>3</td>
<td>Speed 34 m A Max</td>
<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
<td>100.00</td>
<td>9.585</td>
<td>0.390</td>
<td>46.470</td>
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<tr>
<td>4</td>
<td>Speed 34 m A Min</td>
<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
<td>100.00</td>
<td>3.167</td>
<td>0.390</td>
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</tr>
<tr>
<td>5</td>
<td>Speed 20 m</td>
<td>m/s</td>
<td>20 m</td>
<td>221,850</td>
<td>220,746</td>
<td>99.50</td>
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<td>m/s</td>
<td>20 m</td>
<td>221,850</td>
<td>220,746</td>
<td>99.50</td>
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<td>0.000</td>
<td>6.330</td>
<td>0.761</td>
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<tr>
<td>7</td>
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<td>m/s</td>
<td>20 m</td>
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<td>220,746</td>
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<td>0.300</td>
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<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
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<td>0.300</td>
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<td>10</td>
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<td>m/s</td>
<td>34 m</td>
<td>221,850</td>
<td>221,843</td>
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<td>1.290</td>
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<td>221,843</td>
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<td>13</td>
<td>Direction 34 m</td>
<td>°</td>
<td>34 m</td>
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<td>219,664</td>
<td>99.01</td>
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<td>°</td>
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<td>221,843</td>
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Report Settings

Report Created: 12/21/2015 13:41 using Windographer 3.3.10
Report Period: August 2010

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:42 using Windographer 3.3.10
Report Period: September 2010

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings
Report Created: 12/21/2015 13:43 using Windographer 3.3.10
Report Period: October 2010

Wind Speed Data

Wind Direction Data

Temperature Data
**Wind Speed Data**

![Wind Speed Data Graph](image1)

**Wind Direction Data**

![Wind Direction Data Graph](image2)

**Temperature Data**

![Temperature Data Graph](image3)
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings
Report Created: 12/21/2015 13:44 using Windographer 3.3.10
Report Period: December 2010

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:45 using Windographer 3.3.10
Report Period: January 2011

Wind Speed Data

Wind Direction Data

Temperature Data
**Report Settings**

Report Created: 12/21/2015 13:45 using Windographer 3.3.10
Report Period: February 2011

---

**Wind Speed Data**

---

**Wind Direction Data**

---

**Temperature Data**
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:46 using Windographer 3.3.10
Report Period: March 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:46 using Windographer 3.3.10
Report Period: April 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:46 using Windographer 3.3.10
Report Period: May 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:47 using Windographer 3.3.10
Report Period: June 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:47 using Windographer 3.3.10
Report Period: July 2011

Wind Speed Data

Wind Direction Data

Temperature Data
**Report Settings**

Report Created: 12/21/2015 13:48 using Windographer 3.3.10  
Report Period: August 2011

---

**Wind Speed Data**

![Wind Speed Data Graph]

**Wind Direction Data**

![Wind Direction Data Graph]

**Temperature Data**

![Temperature Data Graph]
Report Settings

Report Created: 12/21/2015 13:49 using Windographer 3.3.10
Report Period: September 2011

Wind Speed Data

[Graph of wind speed data for September 2011]

Wind Direction Data

[Graph of wind direction data for September 2011]

Temperature Data

[Graph of temperature data for September 2011]
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:49 using Windographer 3.3.10
Report Period: October 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:49 using Windographer 3.3.10
Report Period: November 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:50 using Windographer 3.3.10
Report Period: December 2011

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:50 using Windographer 3.3.10
Report Period: January 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:50 using Windographer 3.3.10
Report Period: February 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:51 using Windographer 3.3.10
Report Period: March 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:51 using Windographer 3.3.10
Report Period: April 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:51 using Windographer 3.3.10
Report Period: May 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:54 using Windographer 3.3.10
Report Period: July 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:55 using Windographer 3.3.10
Report Period: August 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:55 using Windographer 3.3.10
Report Period: September 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:55 using Windographer 3.3.10
Report Period: October 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings
- Report Created: 12/21/2015 13:56 using Windographer 3.3.10
- Report Period: November 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:56 using Windographer 3.3.10
Report Period: December 2012

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 13:56 using Windographer 3.3.10
Report Period: January 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:57 using Windographer 3.3.10
Report Period: February 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:58 using Windographer 3.3.10
Report Period: March 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 13:58 using Windographer 3.3.10
Report Period: April 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings
Report Created: 12/21/2015 14:16 using Windographer 3.3.10
Report Period: May 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:16 using Windographer 3.3.10
Report Period: June 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 14:27 using Windographer 3.3.10
Report Period: July 2013

Wind Speed Data

![Graph showing wind speed data for July 2013.]

Wind Direction Data

![Graph showing wind direction data for July 2013.]

Temperature Data

![Graph showing temperature data for July 2013.]

Report Settings

Report Created: 12/21/2015 14:27 using Windographer 3.3.10
Report Period: August 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:28 using Windographer 3.3.10
Report Period: September 2013

Wind Speed Data

Wind Direction Data

Temperature Data
**Report Settings**

Report Created: 12/21/2015 14:28 using Windographer 3.3.10
Report Period: October 2013

**Wind Speed Data**

![Wind Speed Data Graph]

**Wind Direction Data**

![Wind Direction Data Graph]

**Temperature Data**

![Temperature Data Graph]
Report Settings

Report Created: 12/21/2015 14:28 using Windographer 3.3.10
Report Period: November 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:29 using Windographer 3.3.10
Report Period: December 2013

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 14:29 using Windographer 3.3.10
Report Period: January 2014

Wind Speed Data

Wind Direction Data

Temperature Data
**Report Settings**

Report Created: 12/21/2015 14:29 using Windograph 3.3.10
Report Period: February 2014

---

**Wind Speed Data**

![Wind Speed Data Chart]

---

**Wind Direction Data**

![Wind Direction Data Chart]

---

**Temperature Data**

![Temperature Data Chart]
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 14:30 using Windographer 3.3.10
Report Period: March 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:30 using Windographer 3.3.10
Report Period: April 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:30 using Windographer 3.3.10
Report Period: May 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:31 using Windographer 3.3.10
Report Period: June 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:47 using Windographer 3.3.10
Report Period: July 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Report Settings

Report Created: 12/21/2015 14:47 using Windographer 3.3.10
Report Period: August 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings

Report Created: 12/21/2015 14:47 using Windographer 3.3.10
Report Period: September 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Monthly Report: ALP 81 - CSU Mountain Campus

Report Settings
Report Created: 12/21/2015 14:48 using Windographer 3.3.10
Report Period: October 2014

Wind Speed Data

Wind Direction Data

Temperature Data
Wind Speed Data

Wind Direction Data

Temperature Data