



Image File Point 1.jpg

Solar Obstruction Data

Month	PVWatts Unshaded % Actual Site Azimuth=190.0 Tilt=11.0	Ideal Solar Rad w/o Shading Azimuth=180(S) Tilt=33.79 KWH/m <sup>2</sup> /day	Actual Solar Rad w/o Shading Azimuth=190.0 Tilt=11.0 KWH/m <sup>2</sup> /day	Actual Solar Rad w/ Shading Azimuth=190.0 Tilt=11.0 KWH/m <sup>2</sup> /day	CSI-EPBB Shading Derate Factor (%)
January	91.00%	4.42	3.46	3.17	91.00%
February	90.00%	5.00	4.24	3.83	90.00%
March	97.00%	5.52	5.09	4.94	97.00%
April	98.00%	6.21	6.25	6.09	98.00%
May	97.00%	6.12	6.59	6.40	97.00%
June	98.00%	6.09	6.75	6.59	98.00%
July	97.00%	6.63	7.23	6.98	97.00%
August	98.00%	6.79	6.98	6.81	98.00%
September	96.00%	6.18	5.89	5.68	96.00%
October	97.00%	5.46	4.74	4.60	97.00%
November	92.00%	4.81	3.84	3.51	92.00%
December	86.00%	4.34	3.30	2.83	86.00%
<b>Totals</b>	<b>94.67%</b>	<b>67.57</b>	<b>64.35</b>	<b>61.43</b>	<b>97.06%</b>
Unweighted Yearly Avg		Effect: 100% Sun Hrs: 5.63	Effect: 95.24% Sun Hrs: 5.36	Effect: 90.91% Sun Hrs: 5.12	May-Oct Avg

Azimuth/Altitude Data

Azimuth / Altitude (degrees) where North = 180 degrees

-125	1.0	-80	14.5	-35	19.0	10	11.5	55	22.0	100	19.0
<b>-120 (ENE)</b>	<b>12.0</b>	<b>-75</b>	<b>5.0</b>	<b>-30 (SSE)</b>	<b>13.5</b>	<b>15</b>	<b>14.0</b>	<b>60 (WSW)</b>	<b>21.5</b>	<b>105</b>	<b>20.5</b>
-115	5.5	-70	3.5	-25	16.5	20	16.0	65	13.5	110	17.5
-110	5.0	-65	13.0	-20	11.5	25	17.0	70	15.5	115	8.0
-105	3.5	<b>-60 (ESE)</b>	<b>9.5</b>	-15	5.5	<b>30 (SSW)</b>	<b>15.5</b>	75	14.0	<b>120 (WNW)</b>	<b>20.0</b>
-100	28.0	-55	11.5	-10	6.0	35	21.0	80	18.5	125	25.5
-95	6.5	-50	7.5	-5	0.5	40	20.5	85	21.5		
<b>-90 (E)</b>	<b>4.0</b>	<b>-45 (SE)</b>	<b>7.0</b>	<b>0 (S)</b>	<b>5.0</b>	<b>45 (SW)</b>	<b>20.0</b>	<b>90 (W)</b>	<b>22.0</b>		
-85	11.0	-40	21.5	5	12.5	50	20.0	95	21.0		

Notes: [None]

