



Site Report

Report Name Dobos, Aron and Hillary
Report Date 4/28/2011 11:28:34 AM
Declination 8d 54m
Location Denver, CO 80220
Lat/Long 39.735 / -104.918
Weather Station Aurora-Buckley Field ANGB, CO, Elevation: 5,663 Feet, (39.717/-104.750)
Site Distance 9 Miles

Report Type PV

Array Type Fixed Angle
Tilt Angle 20.00 deg
Ideal Tilt Angle 39.74 deg
Azimuth 180.00 deg
Ideal Azimuth 180.00 deg

Electric Cost 0.1 (\$/KWH)

Panel Make SunPower
Panel Model SPR-240E-WHT-D
Panel Count 14
DC Rate (per panel) 240.0 Watts
Total System Size 3,360.0 Watts
Inverter Make SunPower
Inverter Model SPR-3300f-240
Inverter Count 1
Derate Method System Setting
Derate Factor 0.770

Layout Configuration Four Corner
Layout Point Count 4

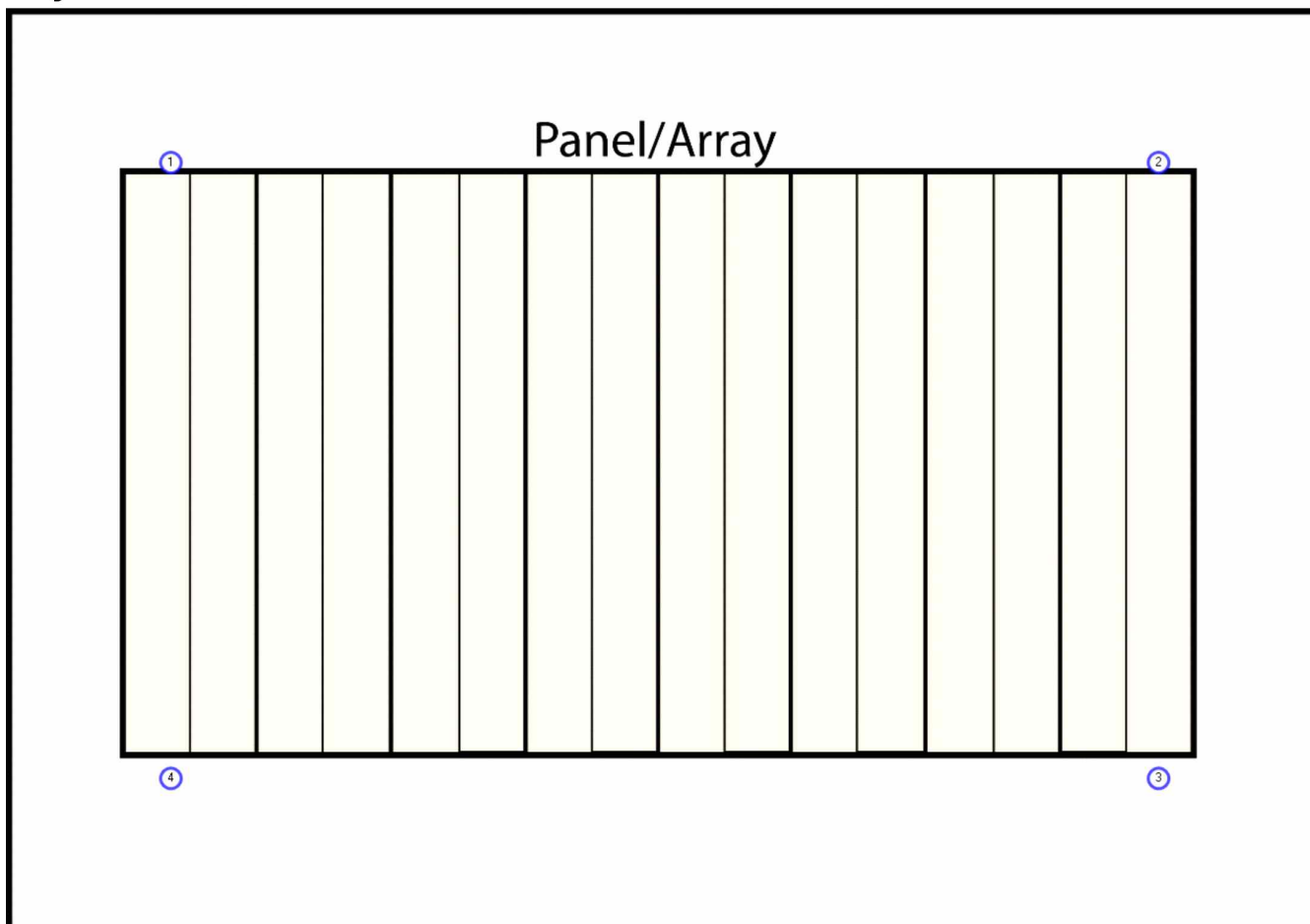
Notes: [None]



System Picture Layout

Layout Type Four Corner

Layout Point Count 4





Summary Report

Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=39.74	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=20.0 KWH/m ² /day	Actual Shaded AC Energy (KWH) Azimuth=180.00 Tilt=20.00	Actual Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00
January	64.00 %	2.63	211.34	322.00
February	74.10 %	3.63	262.97	352.00
March	81.33 %	4.25	335.64	403.00
April	80.22 %	4.05	307.76	375.00
May	80.23 %	4.79	367.53	448.00
June	81.32 %	5.85	411.82	493.00
July	81.39 %	5.16	376.54	454.00
August	82.22 %	5.51	395.85	472.00
September	81.39 %	4.74	341.47	407.00
October	78.17 %	3.75	286.60	359.00
November	69.73 %	3.01	229.92	318.00
December	64.51 %	2.35	192.35	288.00
Totals	76.55%	47.78	3,719.78	4,691.00
	Unweighted Yearly Avg	Effect: 74.55% Sun Hrs: 4.14		

Notes: [None]



Summary Report

Solar Obstruction Data (Part 2 of 2)

Month	Ideal Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=39.74	PVWatts Unshaded % Actual Site Azimuth=180.0 Tilt=20.00	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00	Ideal Site Efficiency % Azimuth=180.0 Tilt=39.74
January	402.00	64.12 %	51.35 %	63.31 %
February	406.00	74.31 %	63.53 %	73.48 %
March	429.00	81.29 %	75.92 %	81.32 %
April	364.00	80.40 %	81.86 %	81.34 %
May	416.00	80.68 %	86.50 %	81.88 %
June	442.00	81.92 %	90.55 %	83.49 %
July	413.00	81.64 %	88.80 %	82.93 %
August	453.00	82.66 %	85.49 %	83.81 %
September	421.00	81.79 %	78.67 %	82.13 %
October	400.00	78.80 %	70.24 %	78.37 %
November	386.00	70.81 %	58.10 %	70.17 %
December	365.00	65.74 %	52.07 %	65.10 %
Totals	4,897.00	77.01 %	73.59 %	77.28 %
		Unweighted Yearly Avg	Unweighted Yearly Avg	Unweighted Yearly Avg



Solar Site Analysis Report

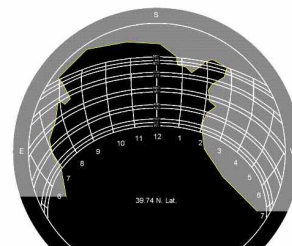
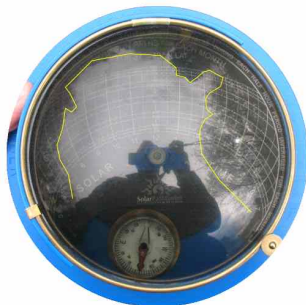
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Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=39.74	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=20.0 KWH/m ² /day	Actual Shaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00	Actual Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00
January	71.20 %	2.93	235.62	322.00
February	77.24 %	3.79	274.06	352.00
March	74.42 %	3.90	307.43	403.00
April	76.18 %	3.87	293.47	375.00
May	71.31 %	4.29	327.97	448.00
June	72.35 %	5.24	367.41	493.00
July	73.01 %	4.65	337.72	454.00
August	76.56 %	5.16	371.04	472.00
September	75.71 %	4.45	320.17	407.00
October	74.65 %	3.60	275.05	359.00
November	73.88 %	3.20	244.78	318.00
December	73.70 %	2.69	219.68	288.00
Totals	74.18%	47.78	3,574.40	4,691.00
	Unweighted Yearly Avg	Effect: 71.63% Sun Hrs: 3.98		

Notes: [None]





Solar Site Analysis Report

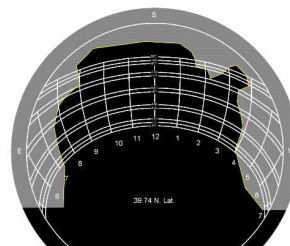
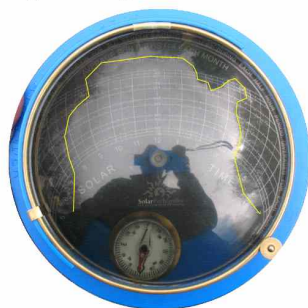
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Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=39.74	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=20.0 KWH/m ² /day	Actual Shaded AC Energy (KWH) Azimuth=180.00 Tilt=20.00	Actual Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00
January	74.01 %	3.03	243.34	322.00
February	84.21 %	4.12	298.88	352.00
March	87.54 %	4.57	360.83	403.00
April	87.91 %	4.42	336.93	375.00
May	86.66 %	5.15	395.69	448.00
June	87.65 %	6.27	442.16	493.00
July	87.01 %	5.50	402.27	454.00
August	88.50 %	5.90	424.31	472.00
September	88.42 %	5.14	370.00	407.00
October	85.83 %	4.08	311.29	359.00
November	82.53 %	3.49	266.20	318.00
December	74.75 %	2.68	219.20	288.00
Totals	84.58%	54.35	4,071.10	4,691.00
	Unweighted Yearly Avg	Effect: 81.48% Sun Hrs: 4.53		

Notes: [None]





Solar Site Analysis Report

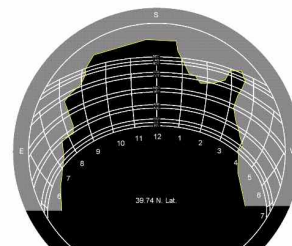
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Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=39.74	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=20.0 KWH/m ² /day	Actual Shaded AC Energy (KWH) Azimuth=180.00 Tilt=20.00	Actual Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00
January	60.53 %	2.48	199.55	322.00
February	70.57 %	3.46	250.09	352.00
March	82.19 %	4.29	339.00	403.00
April	81.08 %	4.06	309.75	375.00
May	87.34 %	5.18	398.42	448.00
June	88.50 %	6.34	447.08	493.00
July	88.11 %	5.57	407.41	454.00
August	85.40 %	5.69	408.87	472.00
September	81.10 %	4.70	338.37	407.00
October	77.89 %	3.72	284.34	359.00
November	64.02 %	2.75	209.67	318.00
December	58.57 %	2.12	174.06	288.00
Totals	77.11%	50.37	3,766.62	4,691.00
	Unweighted Yearly Avg	Effect: 75.51% Sun Hrs: 4.20		

Notes: [None]





Solar Site Analysis Report

4

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Solar Obstruction Data (Part 1 of 2)

Month	Unshaded % of Ideal Site Azimuth=180 Tilt=39.74	Actual Shaded Solar Radiation Azimuth=180.0 Tilt=20.0 KWH/m ² /day	Actual Shaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00	Actual Unshaded AC Energy (KWH) Azimuth=180.0 Tilt=20.00
January	50.24 %	2.08	166.84	322.00
February	64.36 %	3.16	228.84	352.00
March	81.15 %	4.24	335.30	403.00
April	75.71 %	3.83	290.89	375.00
May	75.61 %	4.54	348.03	448.00
June	76.77 %	5.55	390.64	493.00
July	77.43 %	4.92	358.76	454.00
August	78.40 %	5.27	379.17	472.00
September	80.31 %	4.68	337.34	407.00
October	74.30 %	3.60	275.72	359.00
November	58.47 %	2.60	199.02	318.00
December	51.03 %	1.92	156.44	288.00
Totals	70.31%	46.40	3,466.99	4,691.00
	Unweighted Yearly Avg	Effect: 69.56% Sun Hrs: 3.87		

Notes: [None]

