

Prepared for: JANE SMITH



SAMPLE

Your Keyon Solar Site Assessment Report

a detailed audit for your solar investment



Prepared for: JANE SMITH

Address: 123 Patudan St., Ontario Canada

Phone: +1.123.123.1234

Client No.: M08311-040

Understanding The Solar Site Assessment Report

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- Unshaded % of Ideal Site
- Actual Shaded AC Energy (kWh)
- Ideal Unshaded AC Energy (kWh)
- PV Solar Cost Savings 0.802 (\$/kWh)
- Actual Site Efficiency %

Site Overview

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- Available Rooftops

I. South Roof

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Summary

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Understanding The Solar Site Assessment Report

Unshaded % of Ideal Site

This is how efficient (as a percentage) your roof face would be if it was at the ideal azimuth (180°) and pitch (34°) and if there was no shading at all. Compare with Actual Site Efficiency column.



Actual Shaded AC Energy (kWh)

This is the Actual amount of energy in Kilowatt Hours that your roof generates. Compare with Ideal Unshaded AC Energy (kWh) column.

Ideal Unshaded AC Energy (kWh)

This is how much energy your roof would generate in Kilowatt Hours if it was unshaded at the ideal azimuth (180°) and the ideal pitch (34°). Compare with Actual Shaded AC Energy (kWh) column.

PV Solar Cost Savings 0.802 (\$/kWh)

This is the amount of potential money you will make selling the Actual Shaded AC Energy (kWh) back to the grid.

Actual Site Efficiency %

This is the Actual Efficiency of your roof with azimuth, pitch and shading all considered. Compare with Unshaded % of Ideal Site column.



Site Overview



Location: 123 PATUDAN ST., ONTARIO CANADA

Available Rooftops: 1. South Roof

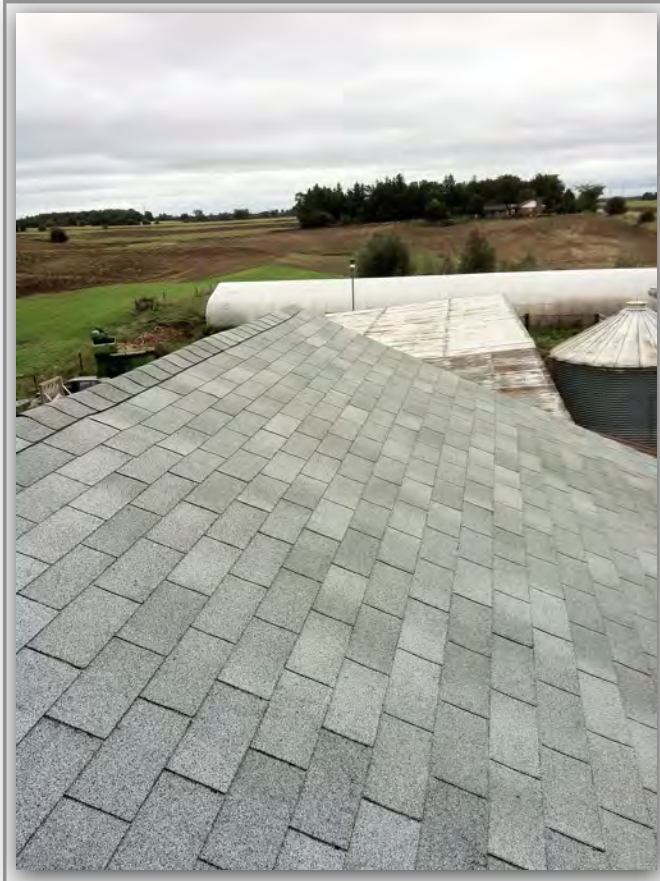


I. South Roof

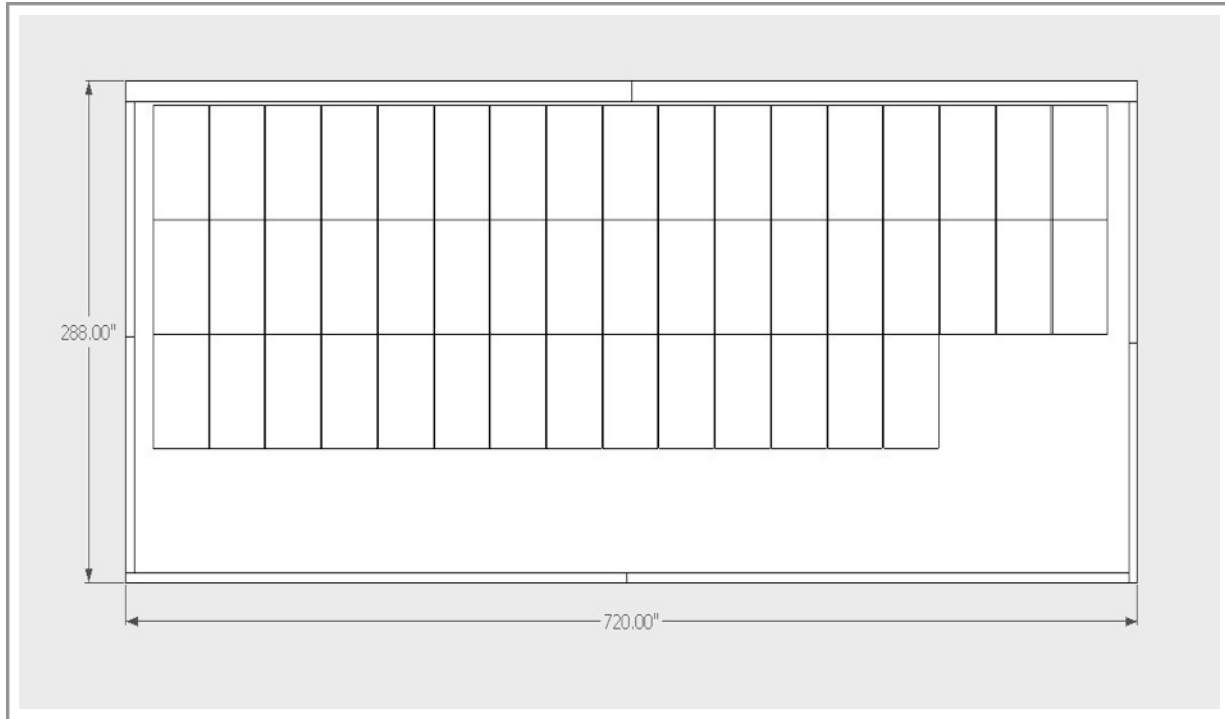
South Facing Rooftop

Azimuth: 180°

Pitch: 34°



SAMPLE
Panel Layout



Maximum Number of Panels: 48 × 250W Panels

Note: Panel layout is subject to Electrical Engineer's and Structural Engineer's approval.



Keyon Solar Energy Inc. Site Report

Report Name 4062 10th LINE
Report Date 11/09/2011 8:53:14 PM
Declination -10d 26m
Location Lat/Long specified
Lat/Long 44.14 / -79.72
Weather Station Toronto Int'l, ON, Elevation: 568 Feet, (43.667/-79.633)
Site Distance 33 Miles

Report Type PV

Array Type Fixed Angle
Tilt Angle 20.00 deg
Ideal Tilt Angle 34.00 deg
Azimuth 180.00 deg
Ideal Azimuth 180.00 deg

Electric Cost 0.802 (\$/KWH)

Panel Make Solgate
Panel Model SG250M
Panel Count 48
DC Rate (per panel) 250.0 Watts
Total System Size 12,000.0 Watts
Inverter Make KACO
Inverter Model blueplanet 5002xi (240V)
Inverter Count 2
Derate Method System Setting
Derate Factor 0.920

Layout Configuration Custom
Layout Point Count 8

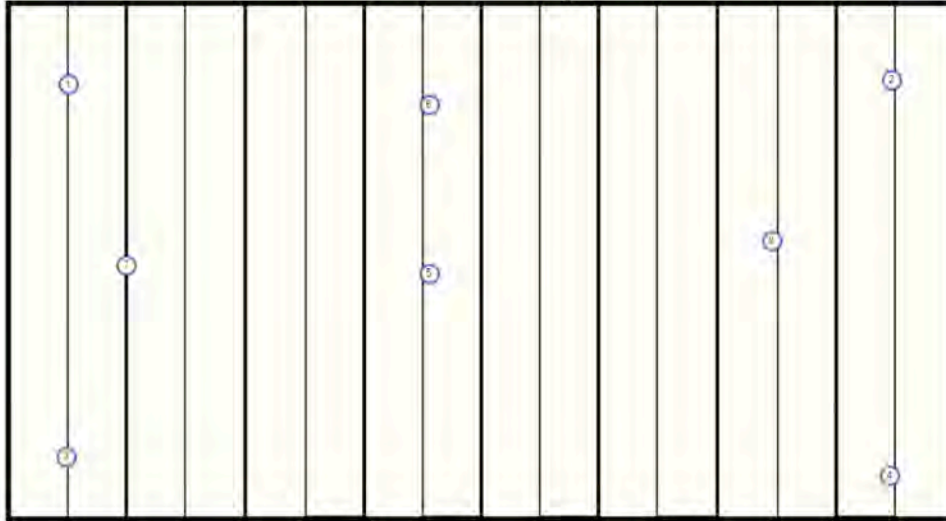
Notes: SOUTH ROOF



Keyon Solar Energy Inc. System Picture Layout

Layout Type Custom
Layout Point Count 8

Panel/Array



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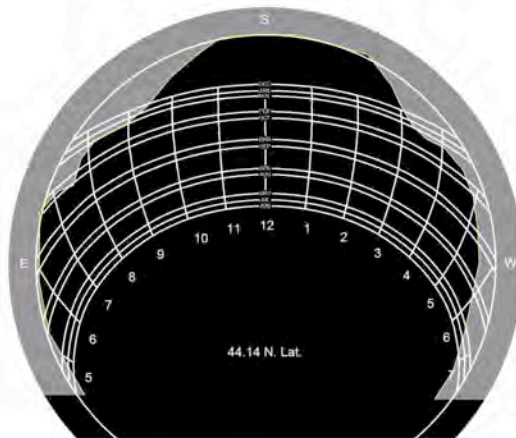
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Image File DSC_0001.JPG

Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	1.83	666.45	757.00	\$534.49	72.21 %
February	2.88	939.67	962.00	\$753.62	85.76 %
March	3.74	1,299.40	1,305.00	\$1,042.12	93.71 %
April	4.75	1,540.06	1,544.00	\$1,235.13	98.47 %
May	5.75	1,872.85	1,874.00	\$1,502.03	100.00 %
June	6.13	1,864.24	1,865.00	\$1,495.12	100.00 %
July	6.08	1,856.70	1,859.00	\$1,489.07	100.00 %
August	5.43	1,674.92	1,678.00	\$1,343.29	99.66 %
September	4.71	1,448.38	1,455.00	\$1,161.60	94.70 %
October	3.18	1,064.92	1,070.00	\$854.07	90.22 %
November	1.58	494.60	513.00	\$396.67	83.43 %
December	1.37	484.27	540.00	\$388.38	73.64 %
Totals	47.43	15,206.46	15,422.00	\$12,195.58	90.98 %
	Effect: 95.31%				Unweighted Yearly Avg
	Sun Hrs: 3.95				

Notes: [None]



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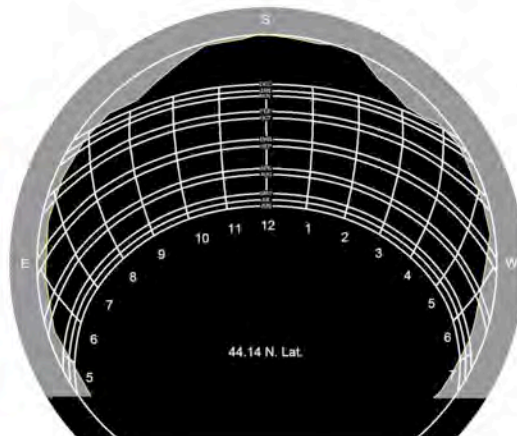
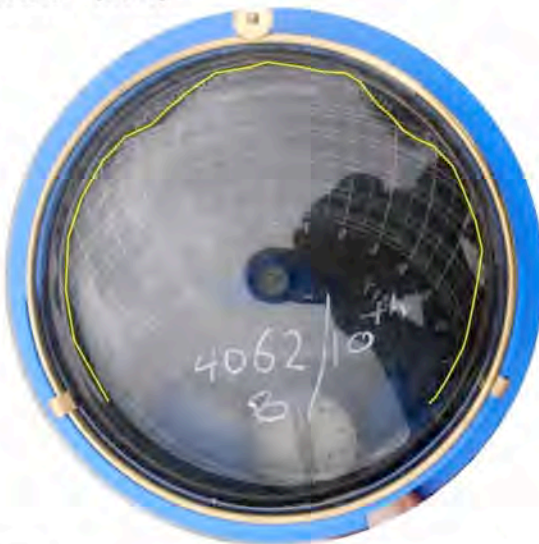
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Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	2.14	755.20	757.00	\$605.67	84.63 %
February	2.95	956.62	962.00	\$767.21	87.79 %
March	3.77	1,305.00	1,305.00	\$1,046.61	94.43 %
April	4.76	1,544.00	1,544.00	\$1,238.29	98.80 %
May	5.76	1,873.53	1,874.00	\$1,502.57	100.00 %
June	6.14	1,865.00	1,865.00	\$1,495.73	100.00 %
July	6.10	1,858.14	1,859.00	\$1,490.23	100.00 %
August	5.46	1,677.40	1,678.00	\$1,345.27	100.00 %
September	4.72	1,451.78	1,455.00	\$1,164.33	94.98 %
October	3.21	1,070.00	1,070.00	\$858.14	90.80 %
November	1.68	512.60	513.00	\$411.11	89.10 %
December	1.56	538.28	540.00	\$431.70	83.93 %
Totals	48.25	15,407.55	15,422.00	\$12,356.85	93.70 %
	Effect: 96.96%				Unweighted
	Sun Hrs: 4.02				Yearly Avg

Notes: [None]



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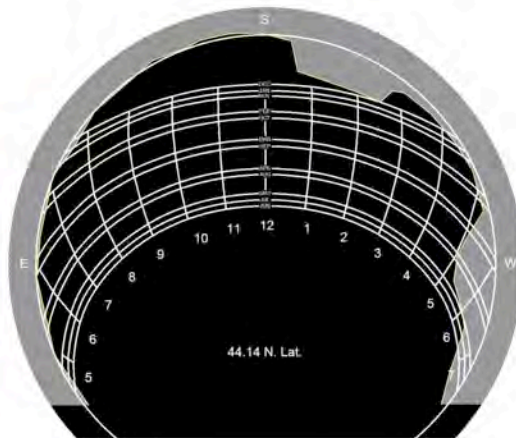
3

Image File DSC_0004.JPG

Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	2.14	753.40	757.00	\$604.23	84.41 %
February	2.95	957.00	962.00	\$767.51	87.93 %
March	3.72	1,295.20	1,305.00	\$1,038.75	93.18 %
April	4.66	1,517.37	1,544.00	\$1,216.93	96.61 %
May	5.74	1,872.32	1,874.00	\$1,501.60	100.00 %
June	6.13	1,863.74	1,865.00	\$1,494.72	100.00 %
July	6.08	1,856.41	1,859.00	\$1,488.84	100.00 %
August	5.30	1,638.57	1,678.00	\$1,314.13	97.22 %
September	4.68	1,444.20	1,455.00	\$1,158.25	94.13 %
October	3.21	1,070.00	1,070.00	\$858.14	90.80 %
November	1.69	513.00	513.00	\$411.43	89.54 %
December	1.57	540.00	540.00	\$433.08	84.39 %
Totals	47.85	15,321.20	15,422.00	\$12,287.61	93.18 %
	Effect: 96.17%				Unweighted
	Sun Hrs: 3.99				Yearly Avg

Notes: [None]



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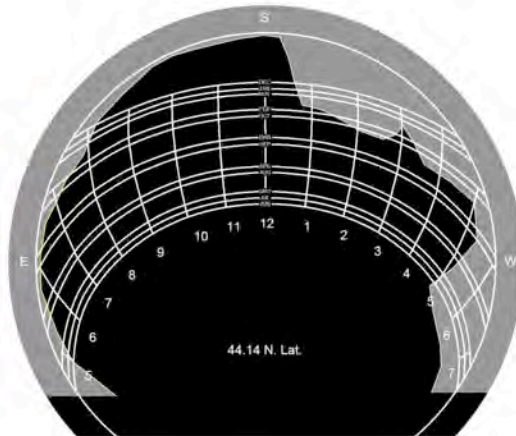
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Image File DSC_0005.JPG

Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	1.14	407.92	757.00	\$327.15	45.03 %
February	2.00	651.22	962.00	\$522.28	59.51 %
March	3.73	1,298.00	1,305.00	\$1,041.00	93.53 %
April	4.67	1,522.43	1,544.00	\$1,220.99	96.98 %
May	5.58	1,830.37	1,874.00	\$1,467.96	99.57 %
June	5.85	1,800.00	1,865.00	\$1,443.60	99.64 %
July	5.81	1,792.00	1,859.00	\$1,437.18	98.58 %
August	5.31	1,641.09	1,678.00	\$1,316.15	97.36 %
September	4.70	1,447.74	1,455.00	\$1,161.09	94.58 %
October	2.67	900.76	1,070.00	\$722.41	75.54 %
November	1.02	319.06	513.00	\$255.89	53.79 %
December	0.90	312.60	540.00	\$250.70	48.29 %
Totals	43.36	13,923.18	15,422.00	\$11,166.39	80.20 %
	Effect: 87.15%				Unweighted
	Sun Hrs: 3.61				Yearly Avg

Notes: [None]



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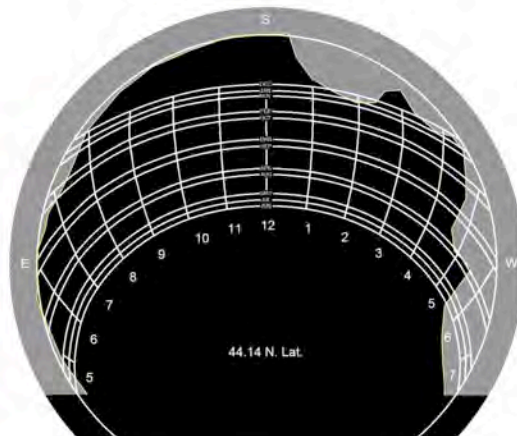
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Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	2.05	721.24	757.00	\$578.43	81.05 %
February	2.88	937.72	962.00	\$752.05	85.76 %
March	3.64	1,272.74	1,305.00	\$1,020.73	91.29 %
April	4.66	1,517.79	1,544.00	\$1,217.26	96.77 %
May	5.66	1,851.68	1,874.00	\$1,485.05	100.00 %
June	5.98	1,834.66	1,865.00	\$1,471.40	100.00 %
July	5.93	1,824.51	1,859.00	\$1,463.26	100.00 %
August	5.36	1,656.22	1,678.00	\$1,328.29	98.41 %
September	4.60	1,422.75	1,455.00	\$1,141.05	92.56 %
October	3.17	1,060.31	1,070.00	\$850.37	89.72 %
November	1.68	512.50	513.00	\$411.03	88.99 %
December	1.27	437.45	540.00	\$350.84	68.05 %
Totals	46.87	15,049.56	15,422.00	\$12,069.75	91.05 %
	Effect: 94.20%				Unweighted
	Sun Hrs: 3.91				Yearly Avg

Notes: [None]



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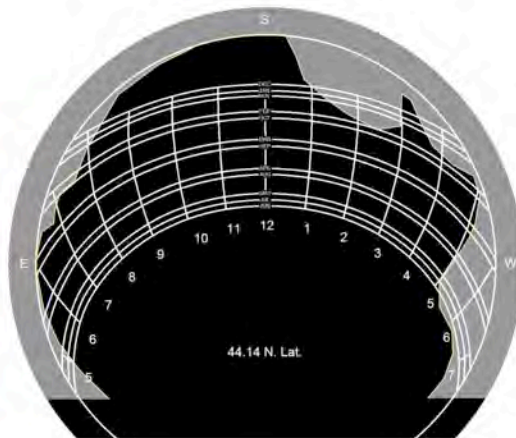
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Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	1.44	515.53	757.00	\$413.46	56.99 %
February	2.92	948.85	962.00	\$760.98	86.77 %
March	3.72	1,295.20	1,305.00	\$1,038.75	93.18 %
April	4.66	1,517.37	1,544.00	\$1,216.93	96.61 %
May	5.58	1,830.37	1,874.00	\$1,467.96	99.57 %
June	5.90	1,815.98	1,865.00	\$1,456.41	100.00 %
July	5.82	1,795.25	1,859.00	\$1,439.79	98.78 %
August	5.28	1,633.52	1,678.00	\$1,310.08	96.88 %
September	4.68	1,444.79	1,455.00	\$1,158.73	94.21 %
October	3.19	1,066.85	1,070.00	\$855.61	90.42 %
November	1.26	392.61	513.00	\$314.87	66.66 %
December	1.05	364.36	540.00	\$292.21	56.35 %
Totals	45.49	14,620.68	15,422.00	\$11,725.79	86.37 %
	Effect: 91.42%				Unweighted
	Sun Hrs: 3.79				Yearly Avg

Notes: [None]



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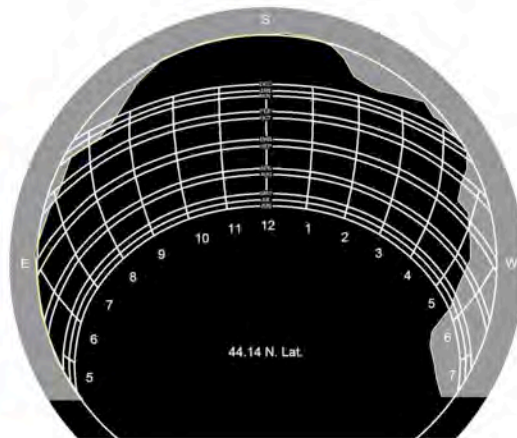
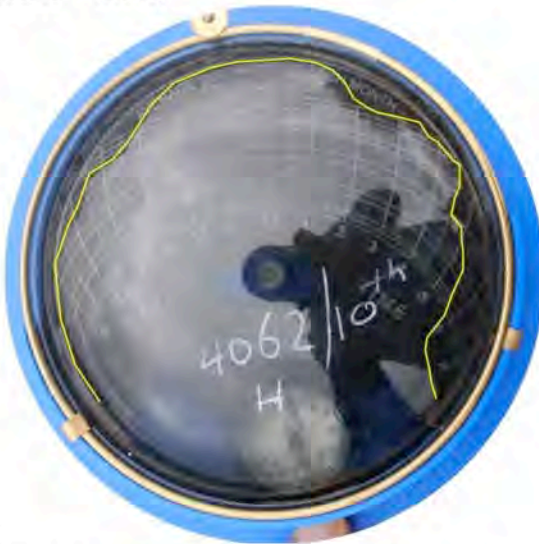
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Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	2.12	751.38	757.00	\$602.60	83.79 %
February	2.88	935.34	962.00	\$750.14	85.60 %
March	3.69	1,287.96	1,305.00	\$1,032.94	92.42 %
April	4.70	1,527.49	1,544.00	\$1,225.05	97.44 %
May	5.67	1,855.74	1,874.00	\$1,488.31	100.00 %
June	6.01	1,842.77	1,865.00	\$1,477.90	100.00 %
July	5.96	1,832.76	1,859.00	\$1,469.87	100.00 %
August	5.35	1,653.70	1,678.00	\$1,326.27	98.24 %
September	4.68	1,444.20	1,455.00	\$1,158.25	94.13 %
October	3.15	1,057.05	1,070.00	\$847.75	89.37 %
November	1.67	509.80	513.00	\$408.86	88.48 %
December	1.54	534.29	540.00	\$428.50	82.86 %
Totals	47.41	15,232.46	15,422.00	\$12,216.44	92.69 %
	Effect: 95.28%				Unweighted
	Sun Hrs: 3.95				Yearly Avg

Notes: [None]



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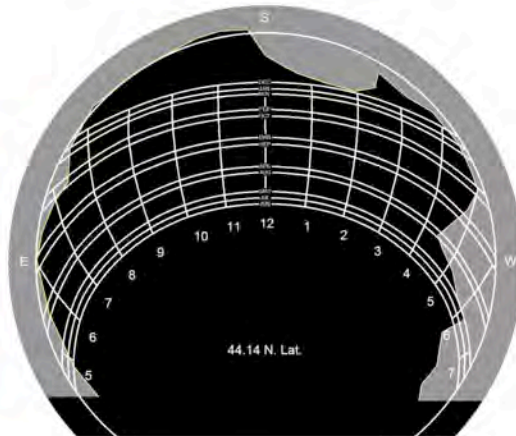
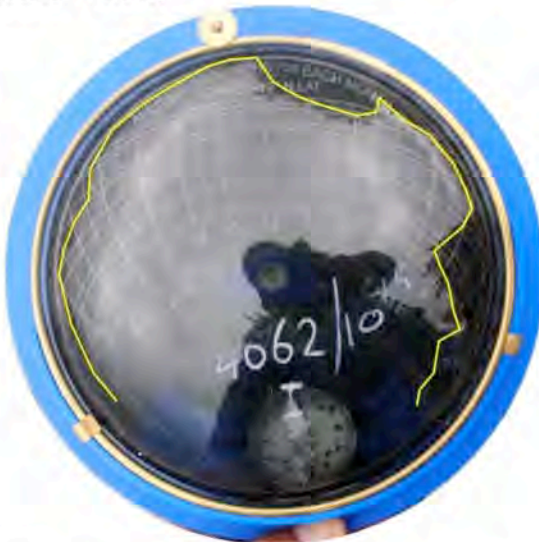
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Image File DSC_0009.JPG

Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	2.14	755.20	757.00	\$605.67	84.74 %
February	2.94	956.15	962.00	\$766.83	87.60 %
March	3.67	1,281.87	1,305.00	\$1,028.06	91.96 %
April	4.51	1,471.40	1,544.00	\$1,180.06	93.51 %
May	5.73	1,870.61	1,874.00	\$1,500.23	100.00 %
June	6.08	1,860.39	1,865.00	\$1,492.03	100.00 %
July	6.05	1,854.06	1,859.00	\$1,486.96	100.00 %
August	5.12	1,584.31	1,678.00	\$1,270.62	93.95 %
September	4.62	1,428.54	1,455.00	\$1,145.69	92.96 %
October	3.19	1,065.80	1,070.00	\$854.77	90.29 %
November	1.69	512.90	513.00	\$411.35	89.43 %
December	1.57	540.00	540.00	\$433.08	84.39 %
Totals	47.30	15,181.22	15,422.00	\$12,175.34	92.40 %
	Effect: 95.07%				Unweighted
	Sun Hrs: 3.94				Yearly Avg

Notes: [None]



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Keyon Solar Energy Inc.
Summary Report

Solar Obstruction Data

Month	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	PV Solar Cost Savings 0.802 (\$/KWH)	Actual Site Efficiency % Azimuth=180.0 Tilt=20.00
January	1.88	665.79	757.00	\$533.96	74.11 %
February	2.80	910.32	962.00	\$730.08	83.34 %
March	3.71	1,291.92	1,305.00	\$1,036.12	92.96 %
April	4.67	1,519.74	1,544.00	\$1,218.83	96.90 %
May	5.68	1,857.18	1,874.00	\$1,489.46	99.89 %
June	6.03	1,843.35	1,865.00	\$1,478.36	99.95 %
July	5.98	1,833.73	1,859.00	\$1,470.65	99.67 %
August	5.33	1,644.97	1,678.00	\$1,319.26	97.71 %
September	4.67	1,441.55	1,455.00	\$1,156.12	94.03 %
October	3.12	1,044.46	1,070.00	\$837.66	88.40 %
November	1.53	470.88	513.00	\$377.65	81.18 %
December	1.35	468.91	540.00	\$376.06	72.74 %
Totals	47.43	14,992.80	15,422.00	\$12,024.22	90.07 %
	Effect: 93.95%				Unweighted
	Sun Hrs: 3.90				Yearly Avg

Notes: SOUTH ROOF

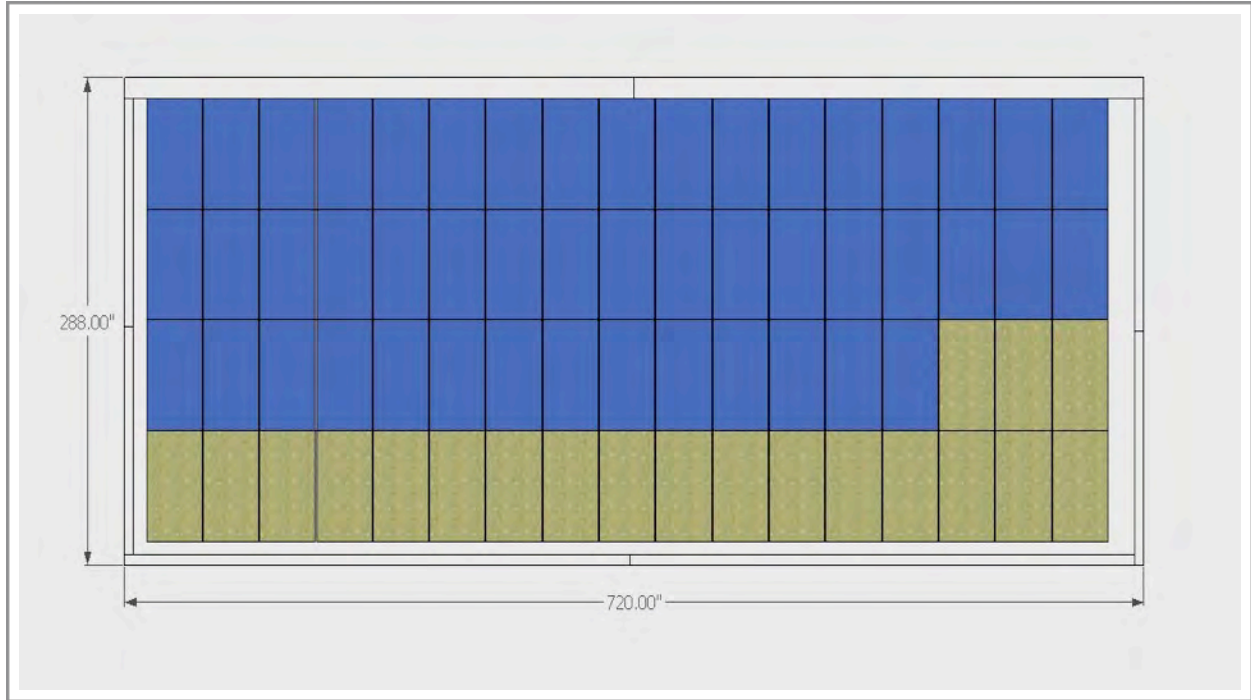
Summary:

Below are the totals and averages of the data collected by our Keyon Site Assessors, and the Solar Pathfinder instrument.

ROOF FACE	NUMBER OF PANELS	PANEL WATTS	DC ENERGY	ROOF EFFICIENCY	POTENTIAL ANNUAL AC ENERGY	POTENTIAL ANNUAL INCOME
1	48	250	12000	90.07%	14992.80	\$12,024.22

SAMPLE

Appendix A Additional Panels Layout



Your roof has extra room for 20 panels more. The energy these extra panels produce can be stored in batteries for your home use.

