



Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at <http://sam.nrel.gov>) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

8,258 kWh per Year *

System output may range from 8,025 to 8,381kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)	Energy Value (\$)
January	3.84	492	79
February	4.57	530	85
March	5.32	681	109
April	6.35	780	125
May	6.57	828	132
June	6.67	815	130
July	7.15	888	142
August	7.06	872	139
September	6.12	738	118
October	5.06	640	102
November	4.23	523	84
December	3.69	471	75
Annual	5.55	8,258	\$ 1,320

Location and Station Identification

Requested Location	710 Tonner Dr, Pomona, CA 91768
Weather Data Source	(TMY2) LONG BEACH, CA 29 mi
Latitude	33.82° N
Longitude	118.15° W

PV System Specifications (Residential)

DC System Size	6.21 kW
Module Type	Premium
Array Type	Fixed (roof mount)
Array Tilt	19°
Array Azimuth	195°
System Losses	27.36%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.16 \$/kWh
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Performance Metrics

Capacity Factor	15.2%
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Solar Access and Shade Report

8/12/2017

For:

Tonner Dr
Pomona, CA 91768

By:

Inter Solar CAD

Measurements made by **Solmetric SunEye™** -- www.solmetric.com

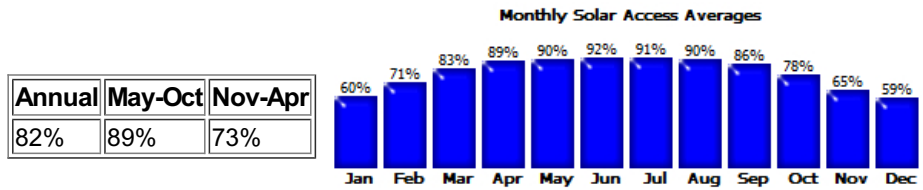


Session Properties

Name	
Creation Date	8/8/2017 2:35
Note	PV Array - 18 modules
Location	34.1°N, 117.8°W Mag Dec: 12.0°E Time Zone: GMT-08:00

Solar access averages of 9 skylines in this session

Skylines Averaged: Sky01, Sky02, Sky03, Sky04, Sky05, Sky06, Sky07, Sky08, Sky09



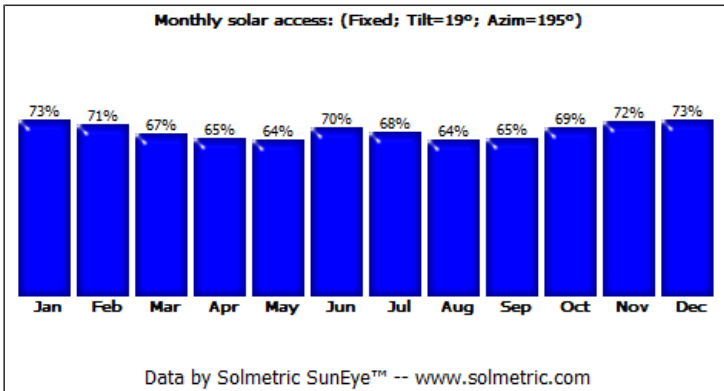
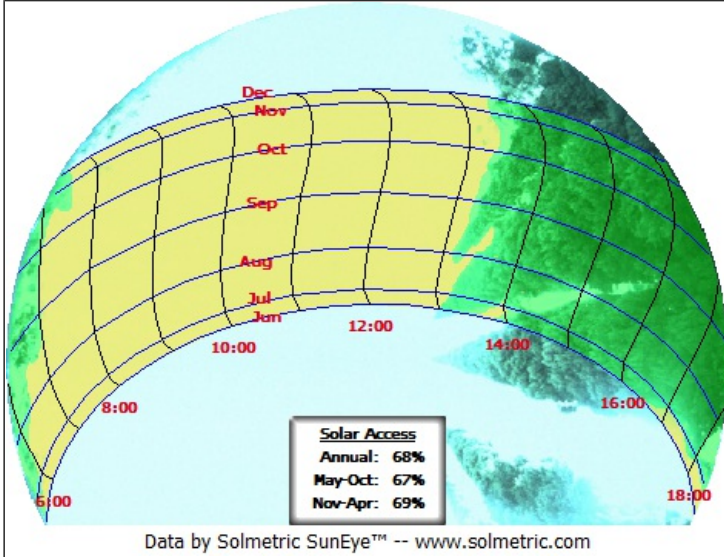
TSRF averages of 9 skylines in this session: 80%

Sky01 -- 8/8/2017 2:46 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=182°**

Solar Access: Annual: 68% -- Summer (May-Oct): 67% -- Winter (Nov-Apr): 69%

TSRF: 66% -- **TOF:** 98%

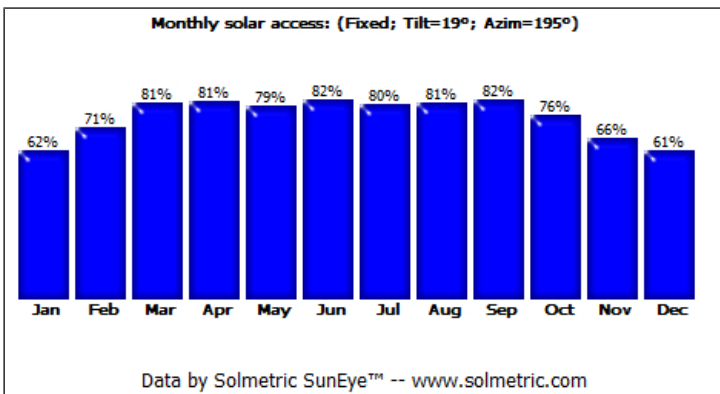
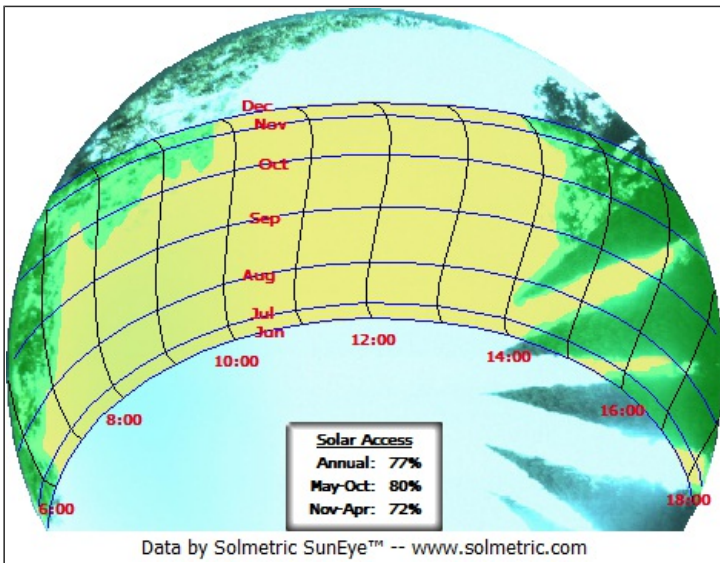


Sky02 -- 8/8/2017 2:46 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=182°**

Solar Access: Annual: 77% -- Summer (May-Oct): 80% -- Winter (Nov-Apr): 72%

TSRF: 75% -- **TOF:** 98%

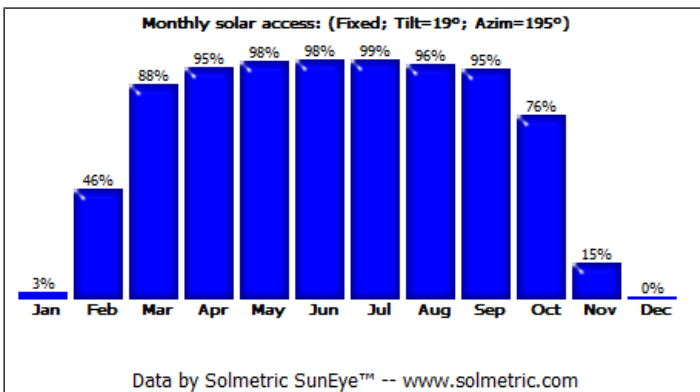
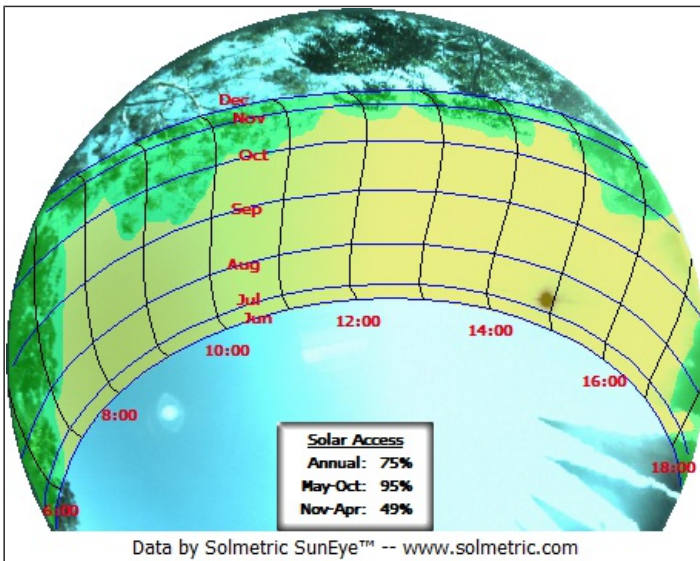


Sky03 -- 8/8/2017 2:47 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=185°**

Solar Access: Annual: 75% -- Summer (May-Oct): 95% -- Winter (Nov-Apr): 49%

TSRF: 73% -- **TOF:** 98%

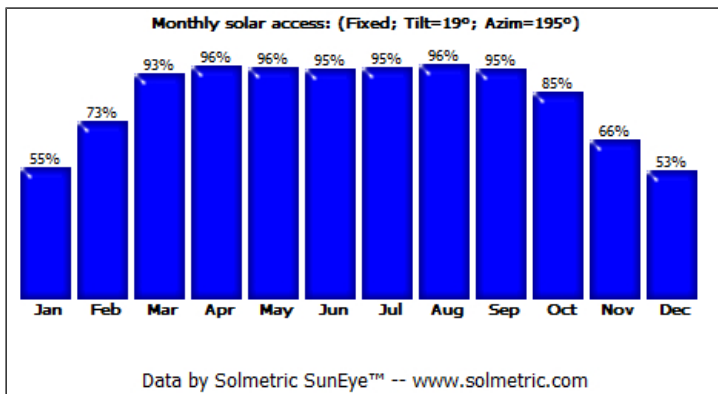
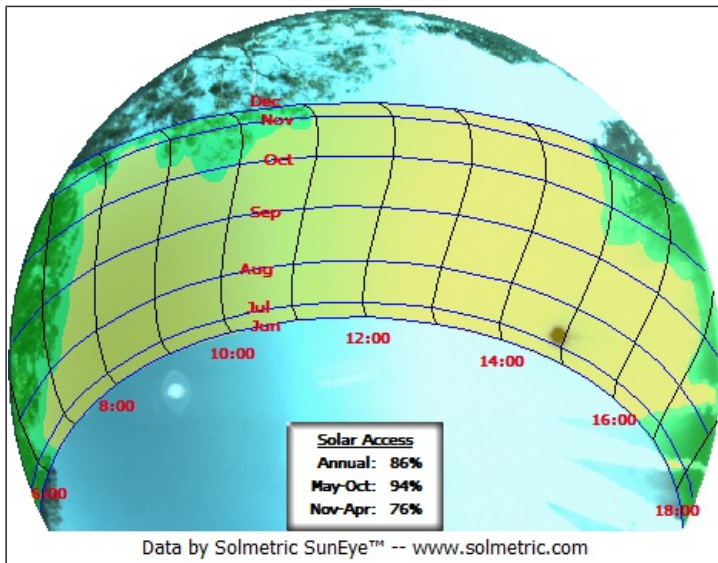


Sky04 -- 8/8/2017 2:47 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=179°**

Solar Access: Annual: 86% -- Summer (May-Oct): 94% -- Winter (Nov-Apr): 76%

TSRF: 84% -- **TOF:** 98%

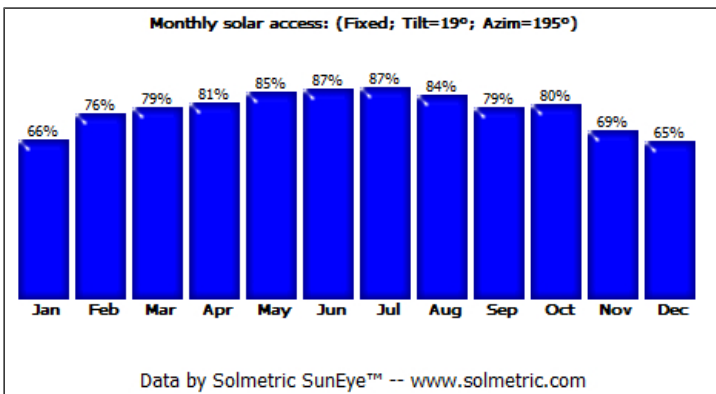
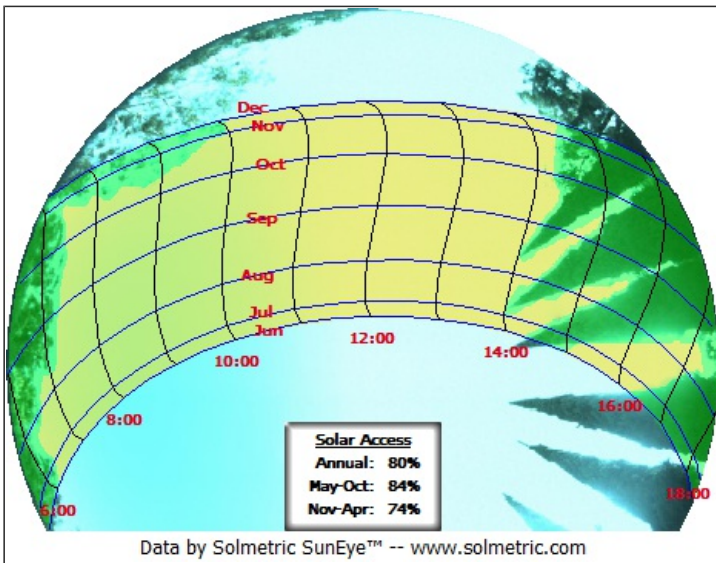


Sky05 -- 8/8/2017 2:48 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=183°**

Solar Access: Annual: 80% -- Summer (May-Oct): 84% -- Winter (Nov-Apr): 74%

TSRF: 78% -- **TOF:** 98%

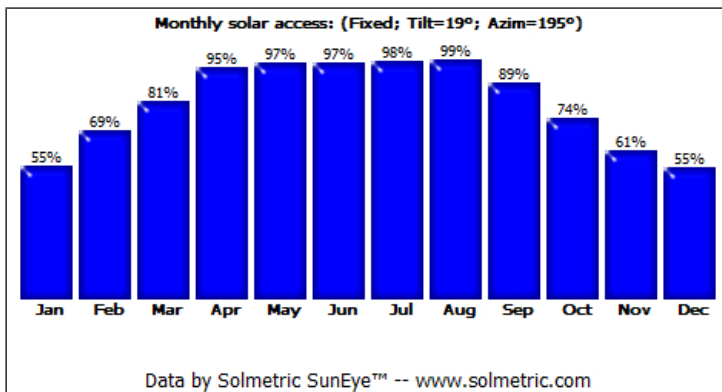
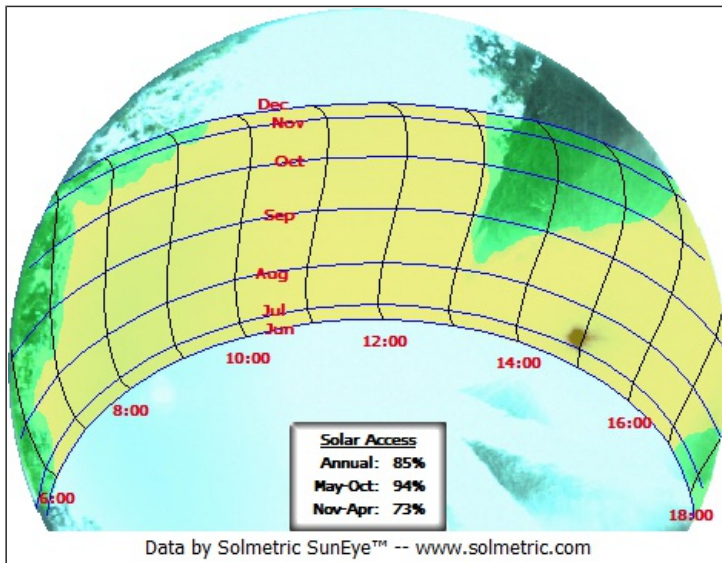


Sky06 -- 8/8/2017 2:48 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=180°**

Solar Access: Annual: 85% -- Summer (May-Oct): 94% -- Winter (Nov-Apr): 73%

TSRF: 83% -- **TOF:** 98%

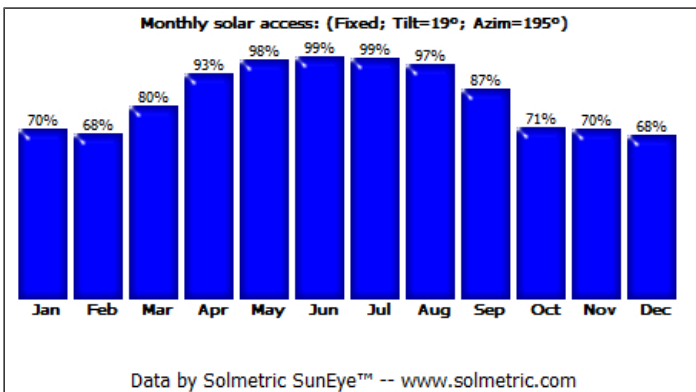
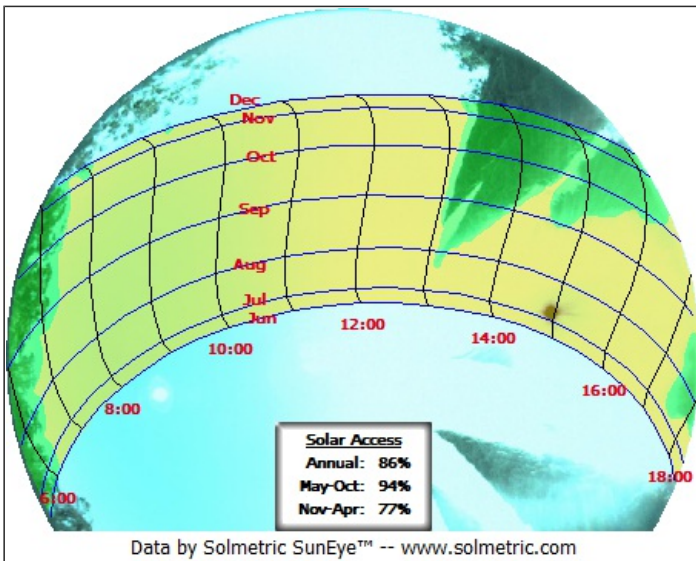


Sky07 -- 8/8/2017 2:49 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=183°**

Solar Access: Annual: 86% -- Summer (May-Oct): 94% -- Winter (Nov-Apr): 77%

TSRF: 84% -- **TOF:** 98%

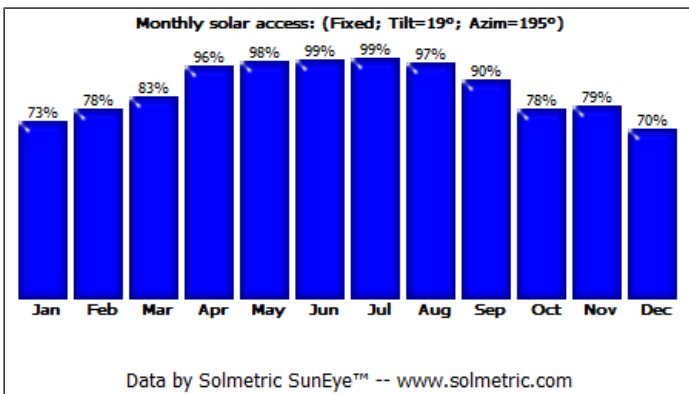
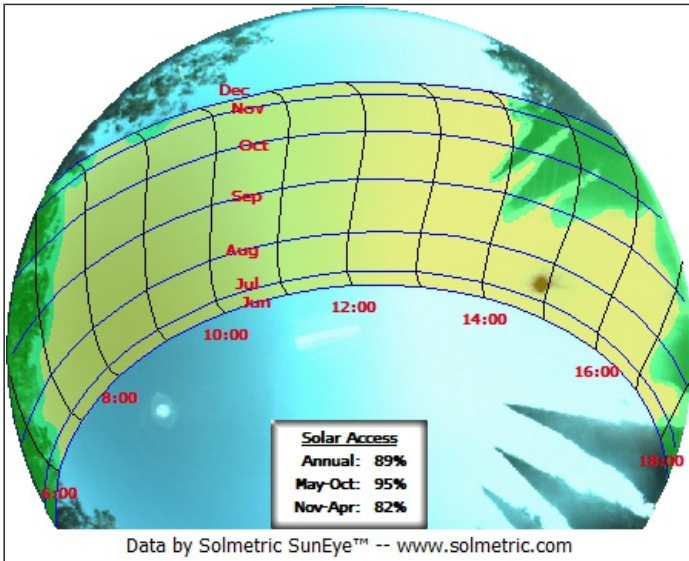


Sky08 -- 8/8/2017 2:49 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=184°**

Solar Access: Annual: 89% -- Summer (May-Oct): 95% -- Winter (Nov-Apr): 82%

TSRF: 87% -- **TOF:** 98%



Sky09 -- 8/8/2017 2:50 -- (no skyline note)

Panel Orientation: Tilt=19° -- Azimuth=195° -- **Skyline Heading=179°**

Solar Access: Annual: 93% -- Summer (May-Oct): 96% -- Winter (Nov-Apr): 89%

TSRF: 91% -- **TOF:** 98%

