

The sol metric report considers the position of the sun throughout the year and measures items that will cause shade, the referenced points are locations readings have been taken on the key below.

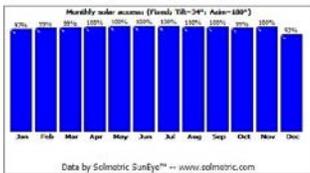
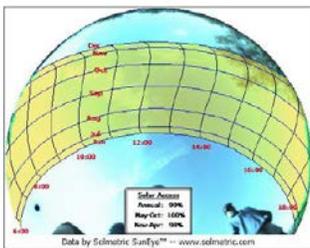


The tower has no obstructions that would cause any shade on the structure, so we are using reference point SKY 1 as a baseline for overall production.

The below captions are showing you a fisheye view from the roof at various positions. The yellow graph is plotting the sun throughout the day, any items that are in the field will create shade throughout the day. As you can see from our report that location SKY 1 is 99% productive throughout the year whereas the proposed location to move the panels to SKY 6 and SKY 7 are 83% and 85% respectively. Thus, causing a loss of production up to 15% throughout the year.

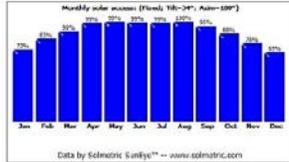
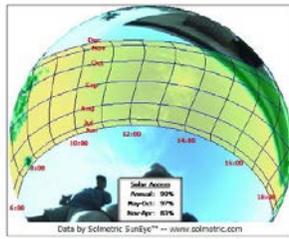
Sky01 -- 7/23/2021 19:35 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- Skyline Heading=180°
 Solar Access: Annual: 99% -- Summer (May-Oct): 100% -- Winter (Nov-Apr): 98%
 TSRF: 99% -- TOF: 100%



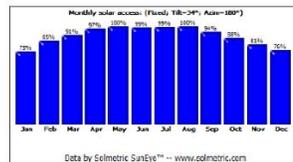
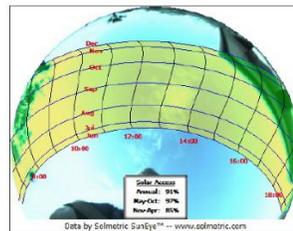
Sky06 -- 7/23/2021 19:45 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- Skyline Heading=177°
 Solar Access: Annual: 90% -- Summer (May-Oct): 97% -- Winter (Nov-Apr): 83%
 TSRF: 90% -- TOF: 100%



Sky07 -- 7/23/2021 19:46 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- Skyline Heading=180°
 Solar Access: Annual: 91% -- Summer (May-Oct): 97% -- Winter (Nov-Apr): 85%
 TSRF: 91% -- TOF: 100%



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N0°12'28"E

45.00'
87.01'

169-22-080C

Sky 1

Sky 8

Sky 2

Sky 3

Sky 9

Sky 4

Sky 5

Sky 6

Sky 7

169



Solar Access and Shade Report

7/23/2020

For:

Wendy Tan
6204 N Hogahn Cir
Paradise Valley, AZ 85253
7324911685

By:

Mark Grabowski
9393 N 90th St Suite 102-353
Phoenix, AZ 85396
609-892-8137



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

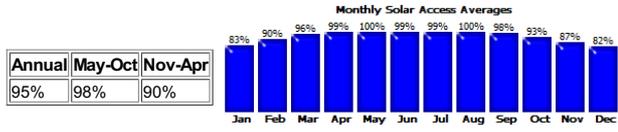


Session Properties

Name	Session 1
Creation Date	7/23/2021 19:31
Note	(none)
Location	33.5°N, 112.0°W Mag Dec: 9.9°E Time Zone: GMT-07:00

Solar access averages of 9 skylines in this session

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

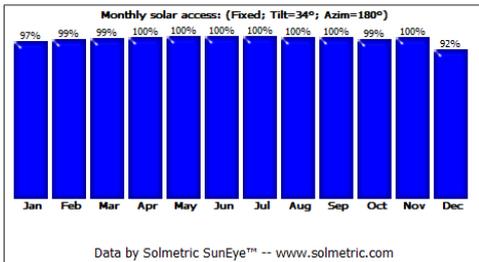
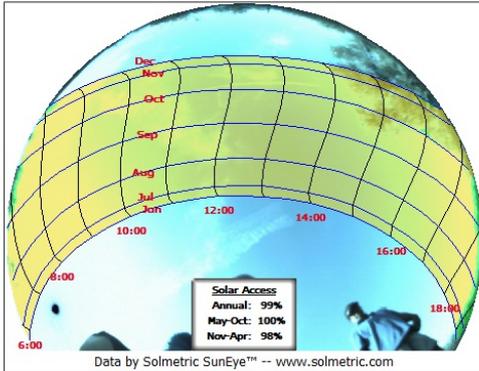


TSRF averages of 9 skylines in this session: 94%

Sky01 -- 7/23/2021 19:35 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=180°**

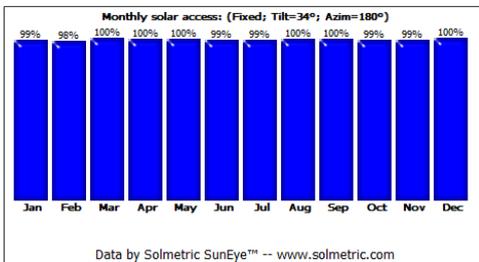
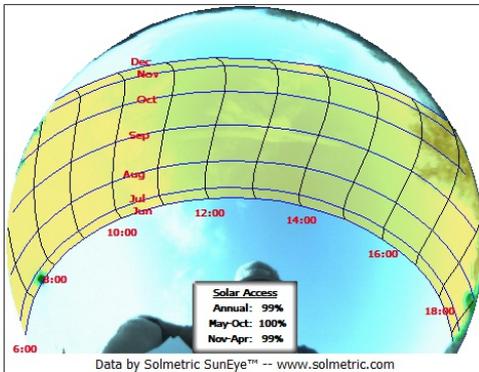
Solar Access: Annual: 99% -- Summer (May-Oct): 100% -- Winter (Nov-Apr): 98%
TSRF: 99% -- **TOF:** 100%



Sky02 -- 7/23/2021 19:38 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=180°**

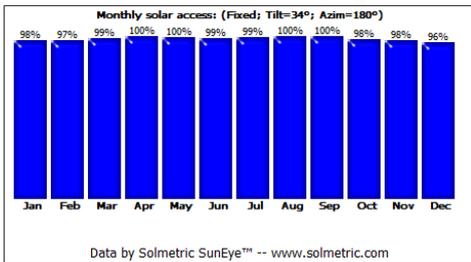
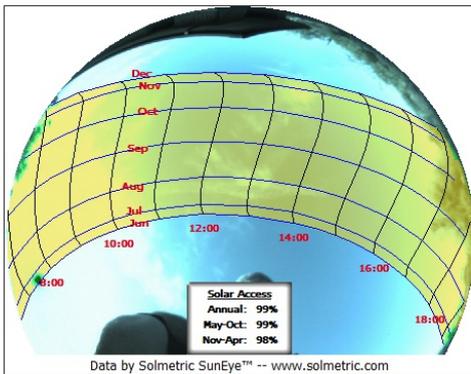
Solar Access: Annual: 99% -- Summer (May-Oct): 100% -- Winter (Nov-Apr): 99%
TSRF: 99% -- **TOF:** 100%



Sky03 -- 7/23/2021 19:40 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=178°**

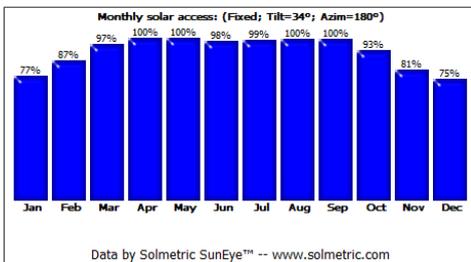
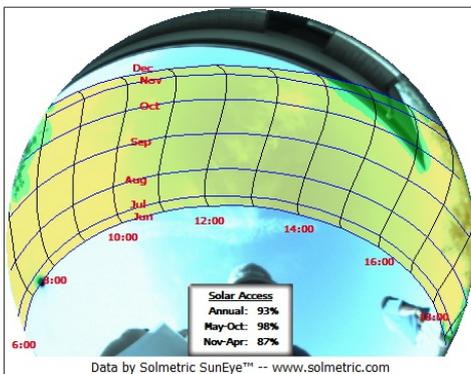
Solar Access: Annual: 99% -- Summer (May-Oct): 99% -- Winter (Nov-Apr): 98%
TSRF: 99% -- **TOF:** 100%



Sky04 -- 7/23/2021 19:42 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=179°**

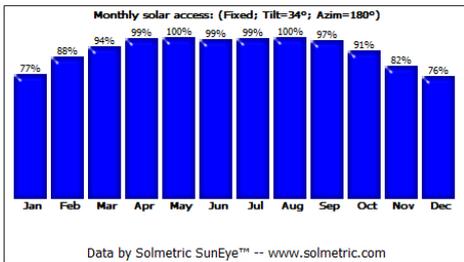
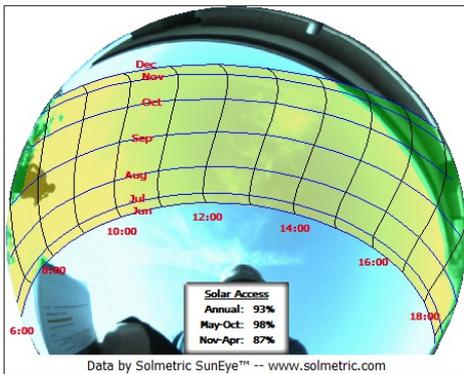
Solar Access: Annual: 93% -- Summer (May-Oct): 98% -- Winter (Nov-Apr): 87%
TSRF: 93% -- **TOF:** 100%



Sky05 -- 7/23/2021 19:44 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=177°**

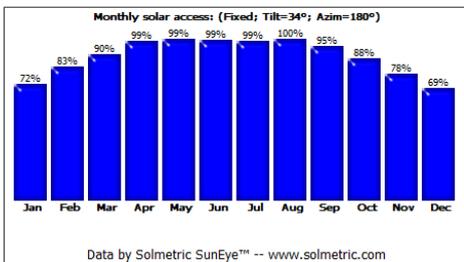
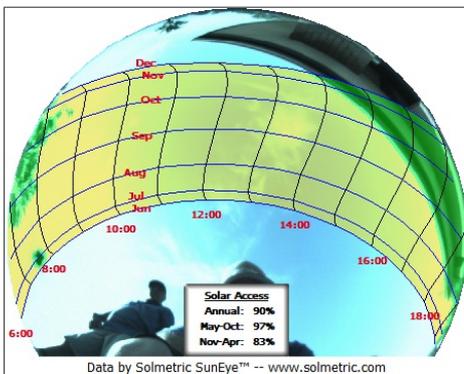
Solar Access: Annual: 93% -- Summer (May-Oct): 98% -- Winter (Nov-Apr): 87%
TSRF: 93% -- **TOF:** 100%



Sky06 -- 7/23/2021 19:45 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=177°**

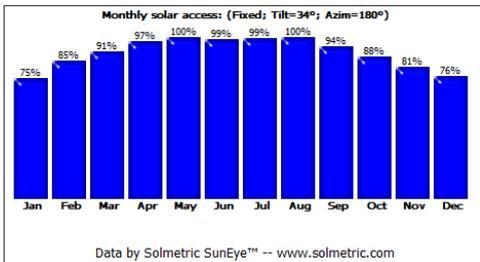
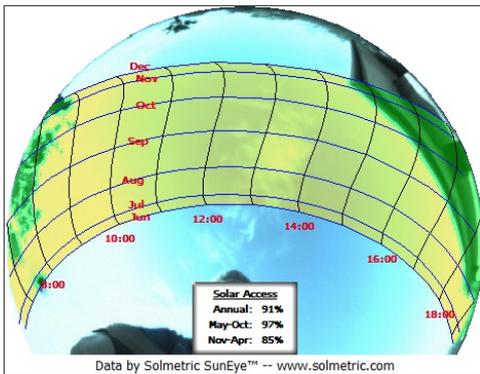
Solar Access: Annual: 90% -- Summer (May-Oct): 97% -- Winter (Nov-Apr): 83%
TSRF: 90% -- **TOF:** 100%



Sky07 -- 7/23/2021 19:46 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=180°**

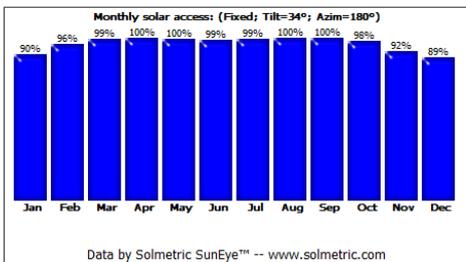
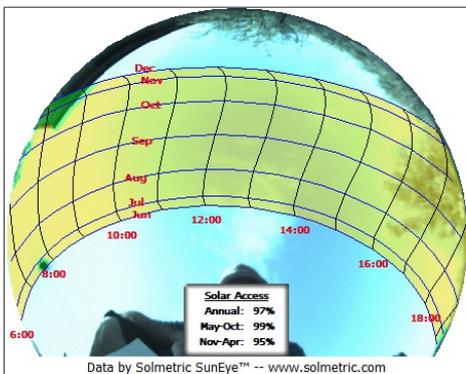
Solar Access: Annual: 91% -- Summer (May-Oct): 97% -- Winter (Nov-Apr): 85%
TSRF: 91% -- **TOF:** 100%



Sky08 -- 7/23/2021 19:49 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=178°**

Solar Access: Annual: 97% -- Summer (May-Oct): 99% -- Winter (Nov-Apr): 95%
TSRF: 97% -- **TOF:** 100%



Sky09 -- 7/23/2021 19:50 -- (no skyline note)

Panel Orientation: Tilt=34° -- Azimuth=180° -- **Skyline Heading=178°**

Solar Access: Annual: 89% -- Summer (May-Oct): 97% -- Winter (Nov-Apr): 80%

TSRF: 89% -- **TOF:** 100%

