Glare Study:
Heartwood Solar II
Fayette Township, MI

ATWELL

SOLAR GLARE ANALYSIS

Atwell, LLC (Atwell) has prepared this Glare Study for Heartwood Solar II, LLC, (Client) regarding the proposed up to 140-megawatt solar energy generation facility, known as the Heartwood Solar II Project (project) within Fayette Township, Hillsdale County, Michigan. This analysis includes approximately 1,033 acres of fenced-in area with panels within the larger 1,370-acre project area (participating parcels).

Atwell used the ForgeSolar photovoltaic (PV) Planning and Glare analysis software, developed by Sandia National Laboratories for the U.S. Department of Energy, to assess potential for solar glare from the project.[1] With the growing numbers of solar energy installations throughout the United States, glare from PV arrays have received increased attention as a real hazard for pilots, air-traffic control personnel, motorists, and others. The ForgeSolar suite of tools provide a quantified assessment of:

1. When and where glare will occur throughout the year for a prescribed solar installation;
2. Potential effects on the human eye at locations where glare occurs; and
3. Annual energy production from the PV system so that alternative designs can be compared.

ForgeSolar employs an interactive Google map where the user can quickly locate a site, draw an outline of the proposed PV array(s), and specify observer locations or paths. Latitude, longitude, and elevation are automatically queried from Google, providing necessary information for sun position and vector calculations. Additional information regarding the orientation and tilt of the PV panels, reflectance, environment, and ocular factors are entered by the user.

If glare is found, the tool calculates the retinal irradiance and subtended angle (size/distance) of the glare source to predict potential ocular hazards ranging from temporary after-image to retinal burn. The results are presented in a simple, easy-to-interpret plot that specifies when glare will occur throughout the year, with color codes indicating the potential ocular hazard. The tool can also predict relative energy production while evaluating alternative designs, layouts, and locations to identify configurations that maximize energy production while mitigating the impacts of glare.

FUNDAMENTALS

Glint is typically defined as a momentary flash of bright light, often caused by a reflection off a moving source. A typical example of glint is a momentary solar reflection from a moving car. Glare is defined as a continuous source of bright light. Glare is generally associated with stationary objects, which, due to the slow relative movement of the sun, reflect sunlight for a longer duration.

The difference between glint and glare is duration. Industry-standard glare analysis tools evaluate the occurrence of glare on a minute-by-minute basis; accordingly, they generally refer to solar hazards as 'glare'.

The ocular impact of solar glare is quantified into three categories[1]:

- Green - low potential to cause after-image (flash blindness)

[1] Ho, Clifford K., and Cianan A. Sims, Julius E. Yellowhair (Sandia National Laboratories). 2016. Solar Glare Hazard Analysis Tool (SGHAT) User's Manual v. 3.0. https://www.forgesolar.com/static/docs/SGHAT3-GlareGauge_user_manual_v1.pdf

- Yellow - potential to cause temporary after-image
- Red - potential to cause retinal burn (permanent eye damage)

"Green glare" is generally considered not hazardous as it refers to a low potential for causing a temporary afterimage, meaning it is unlikely to cause significant visual disruption or harm to the eyes compared to "yellow" or "red" glare, which have higher potential for afterimages and potential eye damage. These categories assume a typical blink response in the observer. Note that retinal burn is typically not possible for PV glare since PV modules do not focus reflected sunlight.

The ocular impact of glare is visualized with the Glare Hazard Plot and summarized for the entire project. The chart displays the ocular impact as a function of glare subtended source angle and retinal irradiance. Each minute of glare is displayed on the chart as a small circle in its respective hazard zone. For convenience, a reference point is provided which illustrates the hazard from viewing the sun without filtering, i.e. staring at the sun. Each plot includes predicted glare for one PV array and one receptor. The summary table identifies glare hazard for each PV array.

The resting angle of single axis trackers determines how the PV modules are modeled when the sun is past the rotation limit (52 degrees), in the early morning and late afternoon. The module position is adjusted to the resting position when the sun's position would put it outside the module's range of rotation. For example, at a resting angle of 52 degrees and rotation limit of 52 degrees, the modules lie flat in the morning until the sun reaches the position matching the 52-degree rotation. The modules are constantly rotating on the trackers throughout the day as it follows the sun from east to west. In the evening, once the sun moves past the corresponding 52-degree rotation position, the modules return to 0° again. This analysis usually represents the worst-case scenario for glare occurrence due to the sunlight glancing off the modules when they are flat, and the sun is low in the sky.

RESULTS

Atwell performed four glare analyses using ForgeSolar PV Planning and Glare analysis software on the proposed project. The simulations were performed varying the heights of observers within Fayette Township and whether or not a reflective coating is considering on the surface of the solar PV modules. The four simulations are as follows:

- six-foot observer height, six-foot route receptor height with an anti-reflective coating,
- six-foot observer height, six-foot route receptor height without an anti-reflective coating,
- 20-foot observer height, 10-foot route receptor height with an anti-reflective coating,
- 20-foot observer height, 10-foot route receptor height without an anti-reflective coating.

The varying simulations were performed to ensure an observer on the first or second floor of their home, or driving a car or semi-truck, will experience minimal glare when in proximity to the Heartwood Solar II project. Varying the use of the anti-reflective coating is done to test the conditions of the site even in the most conservative of conditions. The project intends to use a module with an anti-reflective coating.

Fifty observation points and fifteen route receptors were analyzed in proximity to the project to detect any presence of glare. Fifty observations points is the maximum number of observers allowed by ForgeSolar while the number of route receptors was determined by the routes in the surrounding area. The glare analysis modeled was a single axis tracking system with a tracker

resting angle equal to 52°.

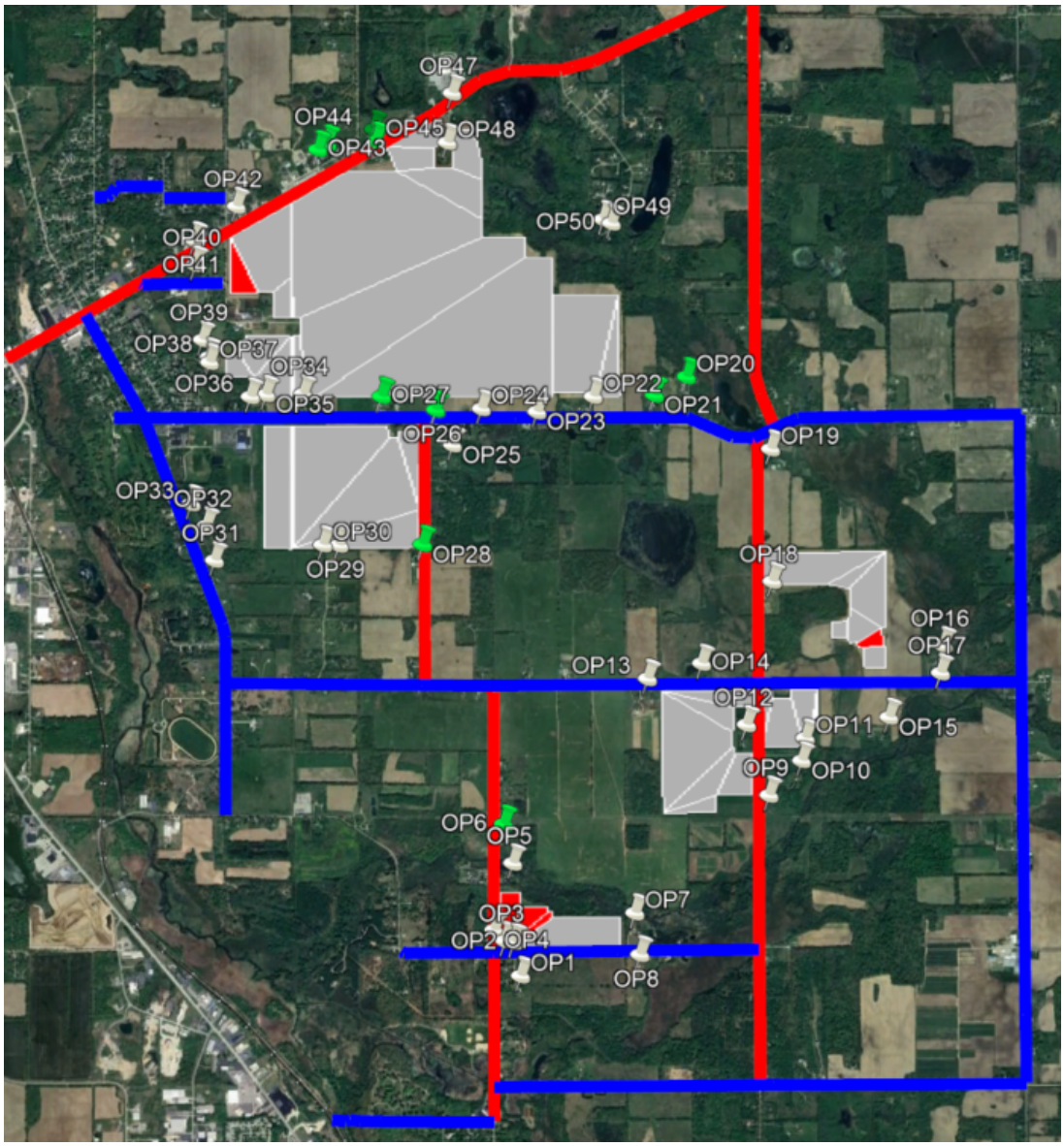
Existing tree lines were included as obstructions in this analysis to mitigate glare that was being caused by arrays from the project. Existing screening was conservatively modeled at 40 feet in height as obstructions in the analysis. **The ForgeSolar glare analysis identified instances of green glare affecting 10 residences and 4 routes. See Table 1 for a summary of the glare results. Using the anti-reflective coating model, glare primarily occurs between 2 to 3 p.m. from November to February. At affected observation points, annual minutes of green glare ranges from 15(0.00%) – 3,589(0.68%), meaning glare will infrequently be observed. Green glare is considered a minor visual disturbance and not hazardous. The ForgeSolar glare analysis identified one receptor without ARC coating predicting one instance of yellow glare lasting for 17 minutes over the course of a year on N Hillsdale Road which was found to be negligible. There were no other predicted instances of yellow or red glare. As the project is designed, glare is not expected to negatively impact neighboring residences or drivers on roadways.** Detailed results of the analyses can be found in **Attachment A.**

Table 1. Glare Result Summary with Anti-Reflective Coating

Observation Point Type	Annual Minutes/(%) of Green Glare Per Observation Point (6ft with ARC)	Annual Minutes/(%) of Green Glare Per Observation Point (20ft with ARC)
North Hillsdale Road	937(0.18%)	951(0.18%)
White Road	728(0.14%)	718(0.14%)
Half Moon Lake Road	3577(0.68%)	3589(0.68%)
East Chicago Road	2502(0.48%)	2851(0.54%)
OP 6	0(0.00%)	15(0.00%)
OP 20	194(0.04%)	191(0.04%)
OP 21	153(0.03%)	143(0.03%)
OP 26	92(0.02%)	101(0.02%)
OP 27	153(0.03%)	149(0.03%)
OP 28	154(0.03%)	159(0.03%)
OP 43	141(0.03%)	152(0.03%)
OP 44	143(0.03%)	146(0.03%)
OP 45	46(0.01%)	43(0.01%)
OP 46	42(0.01%)	39(0.01%)

See **Figure 1** below for the location and vicinity of the proposed project used in the analysis.

Figure 1. Project Location



LEGEND

- PROPOSED SOLAR ARRAY AREA (APPROXIMATE)
- SOLAR ARRAY AREA PRODUCING GLARE (APPROXIMATE)
- ROUTE RECEPTOR (UNAFFECTED)
- ROUTE RECEPTOR AFFECTED BY GREEN GLARE
- UNAFFECTED OBSERVATION POINT
- OBSERVATION POINT AFFECTED BY GREEN GLARE

Forge Solar Glare Analysis Results

Attachment A

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs wARC 1

Client: Ranger Power

Created Oct 24, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162781.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 1-1	SA tracking	SA tracking	0	0	770,500.0
Array 1-2	SA tracking	SA tracking	149	0	793,300.0
Array 1-3	SA tracking	SA tracking	1,159	0	825,000.0
Array 1-4	SA tracking	SA tracking	4,303	0	833,300.0
Array 2-1	SA tracking	SA tracking	0	0	787,200.0
Array 2-2	SA tracking	SA tracking	0	0	773,900.0
Array 2-3	SA tracking	SA tracking	0	0	777,600.0
Array 2-4	SA tracking	SA tracking	0	0	758,800.0
Array 2-5	SA tracking	SA tracking	0	0	756,800.0
Array 2-6	SA tracking	SA tracking	0	0	762,100.0
Array 3-1	SA tracking	SA tracking	0	0	779,900.0
Array 3-2	SA tracking	SA tracking	0	0	758,000.0
Array 3-3	SA tracking	SA tracking	0	0	771,000.0
Array 3-4	SA tracking	SA tracking	0	0	782,700.0
Array 3-5	SA tracking	SA tracking	0	0	774,200.0
Array 4-1	SA tracking	SA tracking	0	0	767,700.0
Array 4-2	SA tracking	SA tracking	0	0	767,900.0
Array 4-3	SA tracking	SA tracking	0	0	782,700.0
Array 4-4	SA tracking	SA tracking	0	0	761,100.0
Array 4-5	SA tracking	SA tracking	0	0	755,000.0

Component Data

PV Array(s)

Total PV footprint area: 207.0 acres

Name: Array 1-1
Footprint area: 24.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949205	-84.630406	1109.74	6.00	1115.74
2	41.950912	-84.627317	1106.32	6.00	1112.32
3	41.950940	-84.622436	1085.16	6.00	1091.16
4	41.949251	-84.622429	1097.13	6.00	1103.13
5	41.949205	-84.630406	1109.74	6.00	1115.74

Name: Array 1-2
Footprint area: 7.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

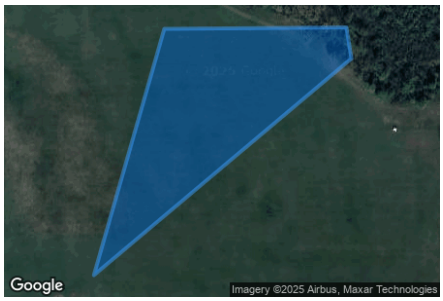
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951479	-84.629682	1106.34	6.00	1112.34
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.949456	-84.631168	1109.41	6.00	1115.41
4	41.952283	-84.631180	1094.93	6.00	1100.93
5	41.952292	-84.629685	1079.44	6.00	1085.44
6	41.951479	-84.629682	1106.34	6.00	1112.34

Name: Array 1-3
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951236	-84.627609	1098.14	6.00	1104.14
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.951479	-84.629682	1106.34	6.00	1112.34
4	41.951491	-84.627665	1076.24	6.00	1082.24
5	41.951236	-84.627609	1098.14	6.00	1104.14



Name: Array 1-4
Footprint area: 2.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

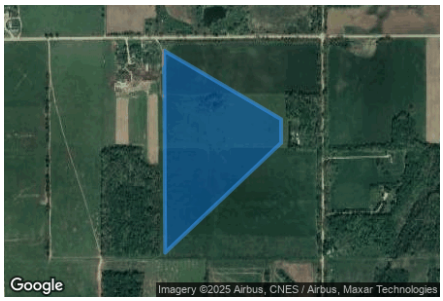
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.950912	-84.627317	1106.32	6.00	1112.32
2	41.949205	-84.630406	1109.74	6.00	1115.74
3	41.949460	-84.630461	1109.29	6.00	1115.29
4	41.951236	-84.627609	1098.14	6.00	1104.14
5	41.951237	-84.627318	1077.99	6.00	1083.99
6	41.950912	-84.627317	1106.32	6.00	1112.32

Name: Array 2-1
Footprint area: 43.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960158	-84.614096	1168.72	6.00	1174.72
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.963178	-84.619285	1151.82	6.00	1157.82
4	41.960930	-84.614099	1150.39	6.00	1156.39
5	41.960158	-84.614096	1168.72	6.00	1174.72



Name: Array 2-2
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962284	-84.613998	1136.69	6.00	1142.69
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.963208	-84.612597	1124.72	6.00	1130.72
4	41.962290	-84.612602	1133.03	6.00	1139.03
5	41.962284	-84.613998	1136.69	6.00	1142.69

Name: Array 2-3
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960930	-84.614099	1150.39	6.00	1156.39
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.962284	-84.613998	1136.69	6.00	1142.69
4	41.961258	-84.613987	1145.76	6.00	1151.76
5	41.960930	-84.614099	1150.39	6.00	1156.39

Name: Array 2-4
Footprint area: 11.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.960158	-84.614096	1168.72	6.00	1174.72
4	41.959789	-84.613911	1174.02	6.00	1180.02
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-5
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.959789	-84.613911	1174.02	6.00	1180.02
3	41.959794	-84.612705	1158.37	6.00	1164.37
4	41.957533	-84.612697	1137.11	6.00	1143.11
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-6
Footprint area: 4.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.956554	-84.619241	1152.14	6.00	1158.14
2	41.957527	-84.615291	1146.01	6.00	1152.01
3	41.956575	-84.615287	1137.71	6.00	1143.71
4	41.956554	-84.619241	1152.14	6.00	1158.14

Name: Array 3-1
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960125	-84.612001	1141.66	6.00	1147.66
2	41.962778	-84.611186	1108.50	6.00	1114.50
3	41.962784	-84.609783	1110.84	6.00	1116.84
4	41.960976	-84.609172	1138.99	6.00	1144.99
5	41.960137	-84.609220	1143.78	6.00	1149.78
6	41.960125	-84.612001	1141.66	6.00	1147.66

Name: Array 3-2
Footprint area: 0.66 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961269	-84.608152	1121.08	6.00	1127.08
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961198	-84.607865	1114.31	6.00	1120.31
4	41.961197	-84.608152	1119.60	6.00	1125.60
5	41.961269	-84.608152	1121.08	6.00	1127.08

Name: Array 3-3
Footprint area: 0.25 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961382	-84.608248	1124.44	6.00	1130.44
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961269	-84.608152	1121.08	6.00	1127.08
4	41.961382	-84.608248	1124.44	6.00	1130.44

Name: Array 3-4
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960976	-84.609172	1138.99	6.00	1144.99
2	41.962784	-84.609783	1110.84	6.00	1116.84
3	41.963223	-84.609784	1106.63	6.00	1112.63
4	41.963227	-84.607873	1104.33	6.00	1110.33
5	41.961382	-84.608248	1124.44	6.00	1130.44
6	41.960976	-84.609172	1138.99	6.00	1144.99

Name: Array 3-5
Footprint area: 3.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962778	-84.611186	1108.50	6.00	1114.50
2	41.960125	-84.612001	1141.66	6.00	1147.66
3	41.963210	-84.611984	1117.50	6.00	1123.50
4	41.963213	-84.611201	1106.02	6.00	1112.02
5	41.962778	-84.611186	1108.50	6.00	1114.50

Name: Array 4-1
Footprint area: 16.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.967691	-84.605473	1126.22	6.00	1132.22
3	41.968748	-84.605477	1126.71	6.00	1132.71
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.966592	-84.602774	1110.33	6.00	1116.33
6	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-2
Footprint area: 28.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

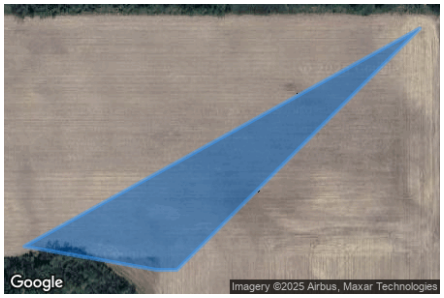
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968942	-84.607166	1128.02	6.00	1134.02
2	41.968927	-84.612047	1146.74	6.00	1152.74
3	41.970703	-84.612059	1158.00	6.00	1164.00
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968942	-84.607166	1128.02	6.00	1134.02

Name: Array 4-3
Footprint area: 4.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

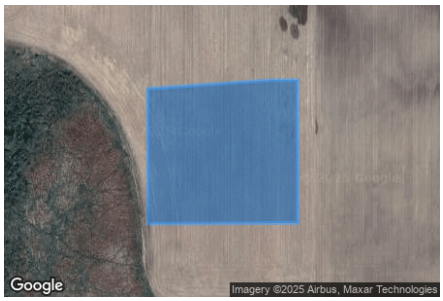
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968748	-84.605477	1126.71	6.00	1132.71
2	41.968747	-84.605705	1127.66	6.00	1133.66
3	41.968942	-84.607166	1128.02	6.00	1134.02
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968748	-84.605477	1126.71	6.00	1132.71



Name: Array 4-4
Footprint area: 4.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965525	-84.604431	1112.80	6.00	1118.80
2	41.965596	-84.603055	1109.79	6.00	1115.79
3	41.965597	-84.602770	1109.55	6.00	1115.55
4	41.964425	-84.602765	1111.32	6.00	1117.32
5	41.964418	-84.604427	1096.71	6.00	1102.71
6	41.965522	-84.604431	1112.80	6.00	1118.80
7	41.965525	-84.604431	1112.80	6.00	1118.80



Name: Array 4-5
Footprint area: 2.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966039	-84.605619	1106.68	6.00	1112.68
2	41.966034	-84.606832	1100.43	6.00	1106.43
3	41.966952	-84.606836	1116.73	6.00	1122.73
4	41.966959	-84.605566	1123.04	6.00	1129.04
5	41.966039	-84.605619	1106.68	6.00	1112.68

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

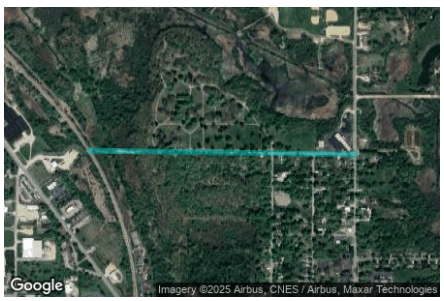
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

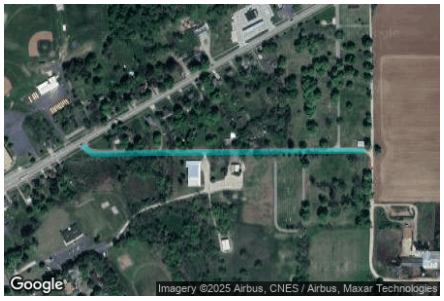
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

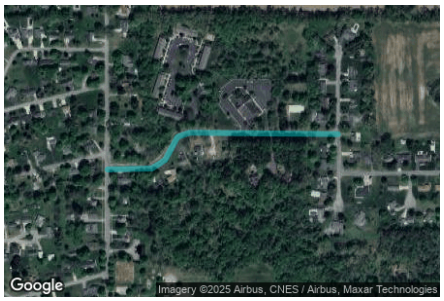
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988866	-84.650757	1130.76	6.00	1136.76
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 1-1	SA tracking	SA tracking	0	0	770,500.0	-
Array 1-2	SA tracking	SA tracking	149	0	793,300.0	-
Array 1-3	SA tracking	SA tracking	1,159	0	825,000.0	-
Array 1-4	SA tracking	SA tracking	4,303	0	833,300.0	-
Array 2-1	SA tracking	SA tracking	0	0	787,200.0	-
Array 2-2	SA tracking	SA tracking	0	0	773,900.0	-
Array 2-3	SA tracking	SA tracking	0	0	777,600.0	-
Array 2-4	SA tracking	SA tracking	0	0	758,800.0	-
Array 2-5	SA tracking	SA tracking	0	0	756,800.0	-
Array 2-6	SA tracking	SA tracking	0	0	762,100.0	-
Array 3-1	SA tracking	SA tracking	0	0	779,900.0	-
Array 3-2	SA tracking	SA tracking	0	0	758,000.0	-
Array 3-3	SA tracking	SA tracking	0	0	771,000.0	-
Array 3-4	SA tracking	SA tracking	0	0	782,700.0	-
Array 3-5	SA tracking	SA tracking	0	0	774,200.0	-
Array 4-1	SA tracking	SA tracking	0	0	767,700.0	-
Array 4-2	SA tracking	SA tracking	0	0	767,900.0	-
Array 4-3	SA tracking	SA tracking	0	0	782,700.0	-
Array 4-4	SA tracking	SA tracking	0	0	761,100.0	-
Array 4-5	SA tracking	SA tracking	0	0	755,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-1-2 (green)	37	0	0	0	0	0	0	0	0	0	12	100
array-1-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-3 (green)	135	0	0	0	0	0	0	0	0	0	29	432
array-1-3 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-4 (green)	589	0	0	0	0	0	0	0	0	0	330	813
array-1-4 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 1-1 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 1-2 low potential for temporary after-image

Predicted energy output: 793,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	149	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 1-2: OP 1

No glare found

Array 1-2: OP 2

No glare found

Array 1-2: OP 3
No glare found

Array 1-2: OP 4
No glare found

Array 1-2: OP 5
No glare found

Array 1-2: OP 6
No glare found

Array 1-2: OP 7
No glare found

Array 1-2: OP 8
No glare found

Array 1-2: OP 9
No glare found

Array 1-2: OP 10
No glare found

Array 1-2: OP 11
No glare found

Array 1-2: OP 12
No glare found

Array 1-2: OP 13
No glare found

Array 1-2: OP 14
No glare found

Array 1-2: OP 15
No glare found

Array 1-2: OP 16
No glare found

Array 1-2: OP 17
No glare found

Array 1-2: OP 18
No glare found

Array 1-2: OP 19
No glare found

Array 1-2: OP 20
No glare found

Array 1-2: OP 21
No glare found

Array 1-2: OP 22
No glare found

Array 1-2: OP 23
No glare found

Array 1-2: OP 24
No glare found

Array 1-2: OP 25
No glare found

Array 1-2: OP 26
No glare found

Array 1-2: OP 27
No glare found

Array 1-2: OP 28
No glare found

Array 1-2: OP 29
No glare found

Array 1-2: OP 30
No glare found

Array 1-2: OP 31
No glare found

Array 1-2: OP 32
No glare found

Array 1-2: OP 33
No glare found

Array 1-2: OP 34
No glare found

Array 1-2: OP 35
No glare found

Array 1-2: OP 36
No glare found

Array 1-2: OP 37
No glare found

Array 1-2: OP 38
No glare found

Array 1-2: OP 39
No glare found

Array 1-2: OP 40
No glare found

Array 1-2: OP 41
No glare found

Array 1-2: OP 42
No glare found

Array 1-2: OP 43
No glare found

Array 1-2: OP 44
No glare found

Array 1-2: OP 45
No glare found

Array 1-2: OP 46
No glare found

Array 1-2: OP 47
No glare found

Array 1-2: OP 48
No glare found

Array 1-2: OP 49
No glare found

Array 1-2: OP 50
No glare found

Array 1-2: Ball Rd
No glare found

Array 1-2: E Chicago Rd
No glare found

Array 1-2: Half Moon Lake Rd
No glare found

Array 1-2: Half Moon Lake Rd2
No glare found

Array 1-2: Homer Rd
No glare found

Array 1-2: Mauck Rd
No glare found

Array 1-2: Milnes Rd
No glare found

Array 1-2: Montgomery St
No glare found

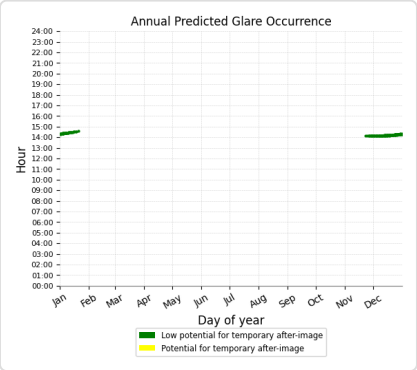
Array 1-2: Moore Rd E
No glare found

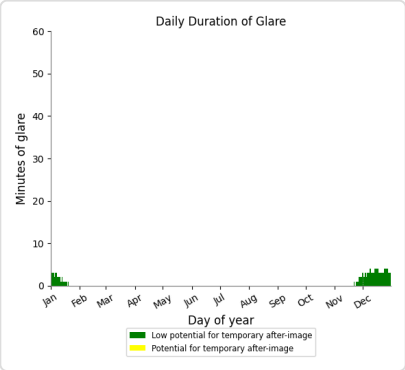
Array 1-2: N Adams Rd
No glare found

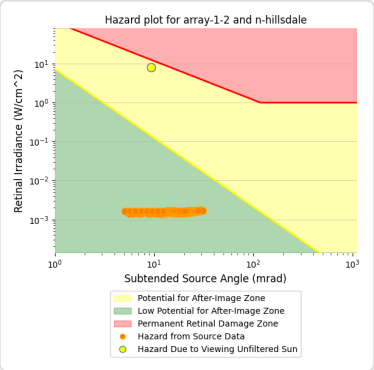
Array 1-2: N Hillsdale Rd

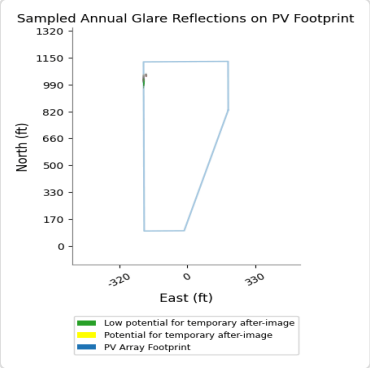
PV array is expected to produce the following glare for this receptor:

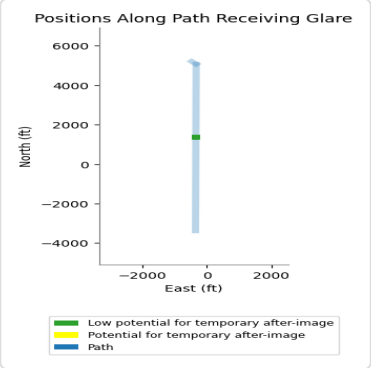
- 149 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-2: Oak St

No glare found

Array 1-2: Parkwood Dr

No glare found

Array 1-2: Salem Dr

No glare found

Array 1-2: White Rd

No glare found

Array 1-3 low potential for temporary after-image

Predicted energy output: 825,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0

OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	93	0
OP: OP 21	81	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	160	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	179	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0

Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	415	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	231	0

Array 1-3: OP 1
No glare found

Array 1-3: OP 2
No glare found

Array 1-3: OP 3
No glare found

Array 1-3: OP 4
No glare found

Array 1-3: OP 5
No glare found

Array 1-3: OP 6
No glare found

Array 1-3: OP 7
No glare found

Array 1-3: OP 8
No glare found

Array 1-3: OP 9
No glare found

Array 1-3: OP 10
No glare found

Array 1-3: OP 11
No glare found

Array 1-3: OP 12
No glare found

Array 1-3: OP 13

No glare found

Array 1-3: OP 14

No glare found

Array 1-3: OP 15

No glare found

Array 1-3: OP 16

No glare found

Array 1-3: OP 17

No glare found

Array 1-3: OP 18

No glare found

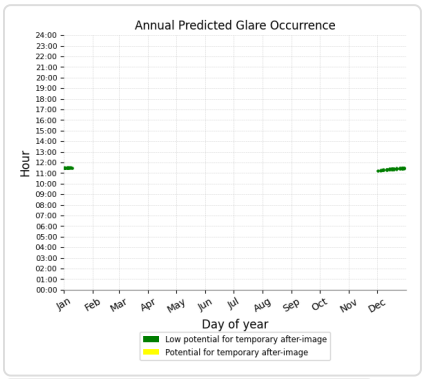
Array 1-3: OP 19

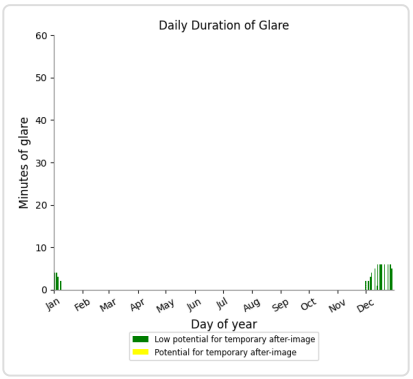
No glare found

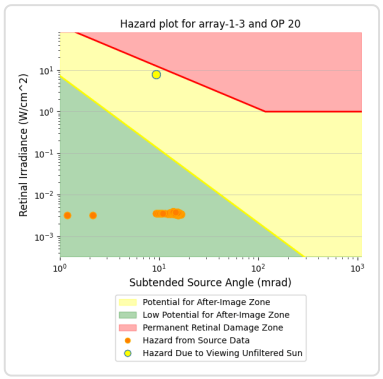
Array 1-3: OP 20

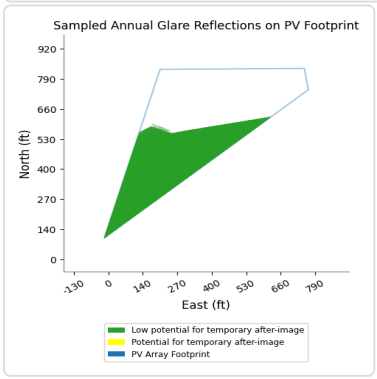
PV array is expected to produce the following glare for this receptor:

- 93 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





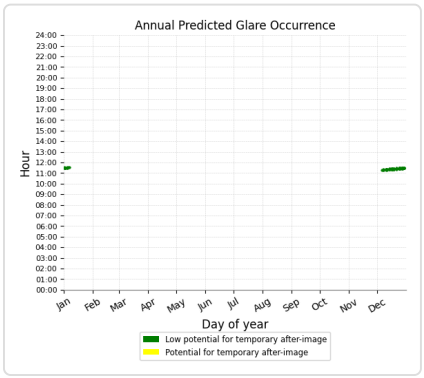


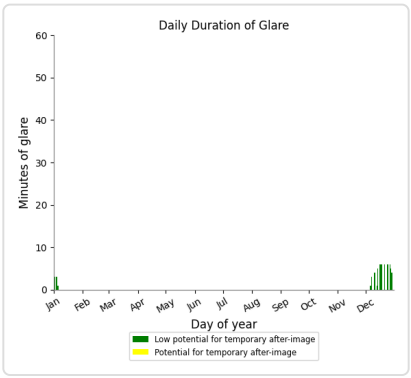


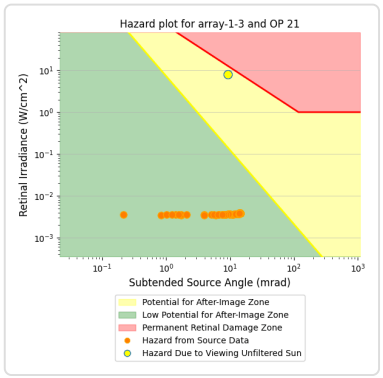
Array 1-3: OP 21

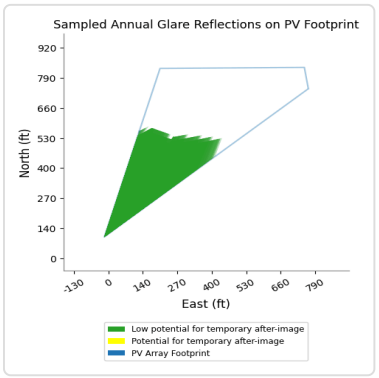
PV array is expected to produce the following glare for this receptor:

- 81 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-3: OP 22

No glare found

Array 1-3: OP 23

No glare found

Array 1-3: OP 24

No glare found

Array 1-3: OP 25

No glare found

Array 1-3: OP 26

No glare found

Array 1-3: OP 27

No glare found

Array 1-3: OP 28

No glare found

Array 1-3: OP 29

No glare found

Array 1-3: OP 30
No glare found

Array 1-3: OP 31
No glare found

Array 1-3: OP 32
No glare found

Array 1-3: OP 33
No glare found

Array 1-3: OP 34
No glare found

Array 1-3: OP 35
No glare found

Array 1-3: OP 36
No glare found

Array 1-3: OP 37
No glare found

Array 1-3: OP 38
No glare found

Array 1-3: OP 39
No glare found

Array 1-3: OP 40
No glare found

Array 1-3: OP 41
No glare found

Array 1-3: OP 42
No glare found

Array 1-3: OP 43
No glare found

Array 1-3: OP 44
No glare found

Array 1-3: OP 45

No glare found

Array 1-3: OP 46

No glare found

Array 1-3: OP 47

No glare found

Array 1-3: OP 48

No glare found

Array 1-3: OP 49

No glare found

Array 1-3: OP 50

No glare found

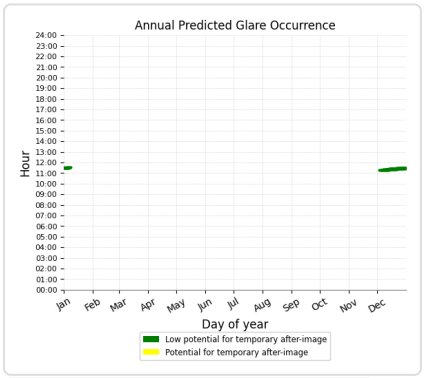
Array 1-3: Ball Rd

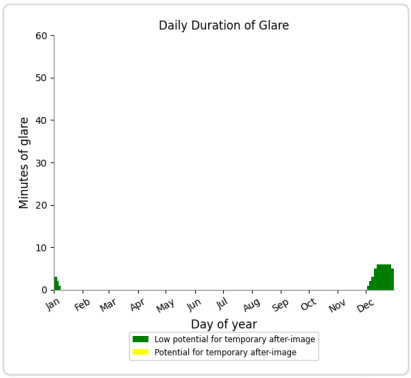
No glare found

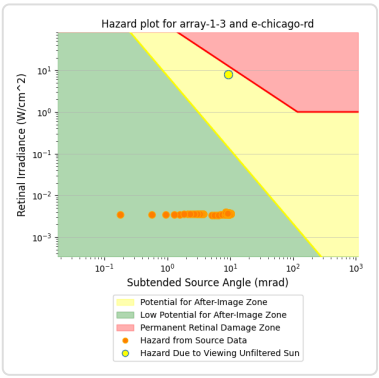
Array 1-3: E Chicago Rd

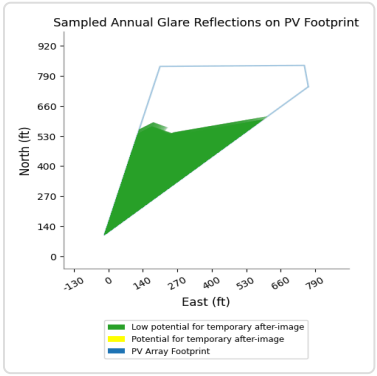
PV array is expected to produce the following glare for this receptor:

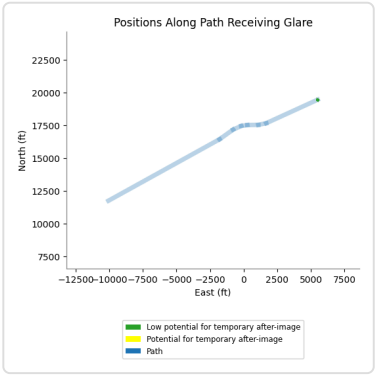
- 160 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











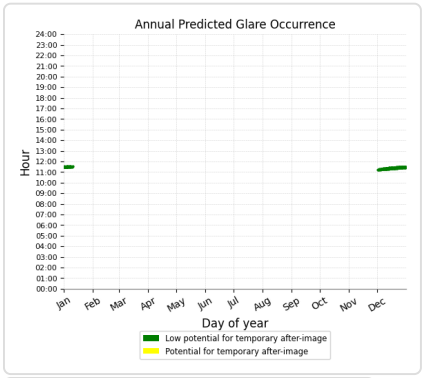
Array 1-3: Half Moon Lake Rd

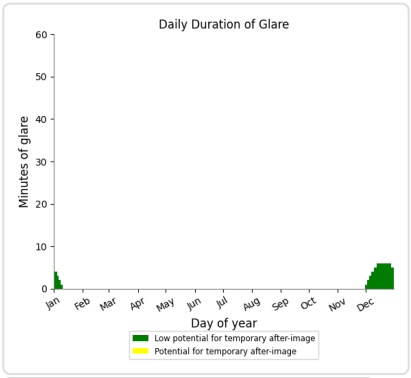
No glare found

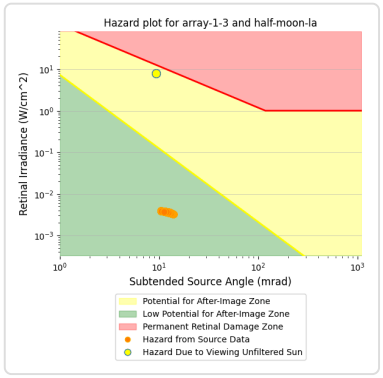
Array 1-3: Half Moon Lake Rd2

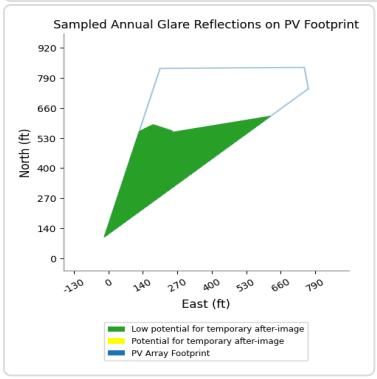
PV array is expected to produce the following glare for this receptor:

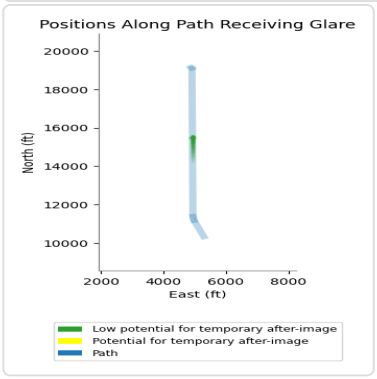
- 179 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Homer Rd

No glare found

Array 1-3: Mauck Rd

No glare found

Array 1-3: Milnes Rd

No glare found

Array 1-3: Montgomery St

No glare found

Array 1-3: Moore Rd E

No glare found

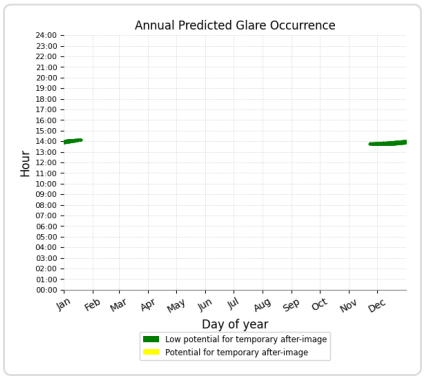
Array 1-3: N Adams Rd

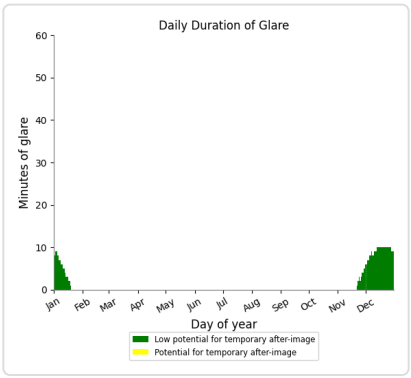
No glare found

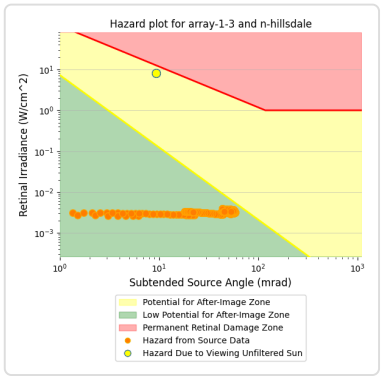
Array 1-3: N Hillsdale Rd

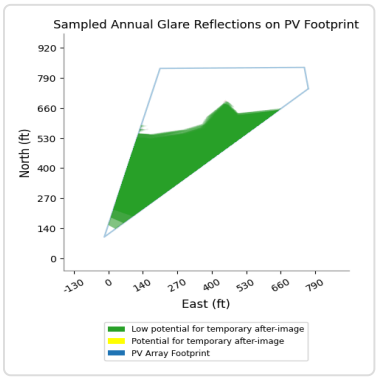
PV array is expected to produce the following glare for this receptor:

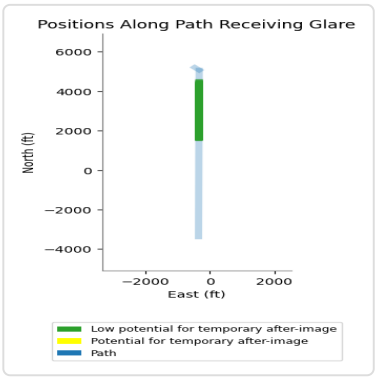
- 415 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Oak St

No glare found

Array 1-3: Parkwood Dr

No glare found

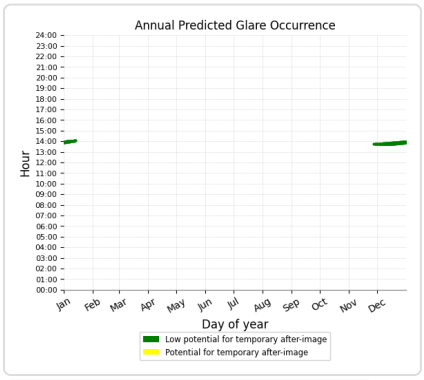
Array 1-3: Salem Dr

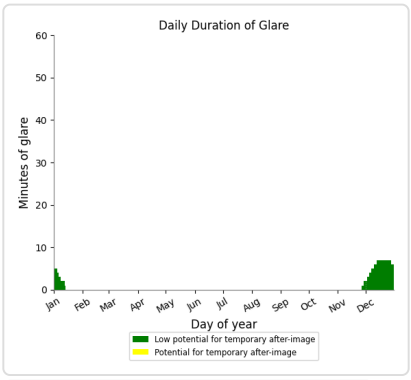
No glare found

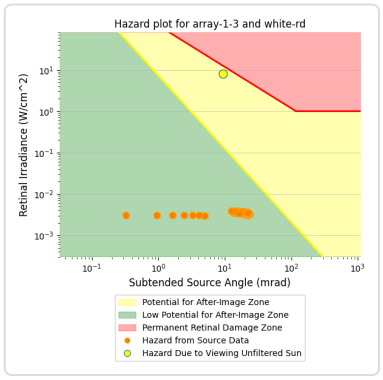
Array 1-3: White Rd

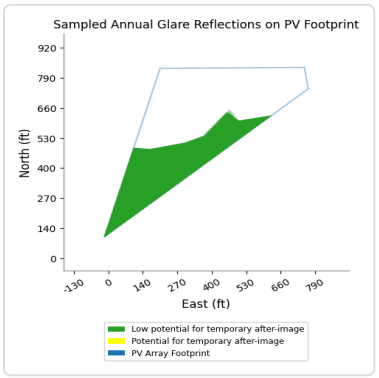
PV array is expected to produce the following glare for this receptor:

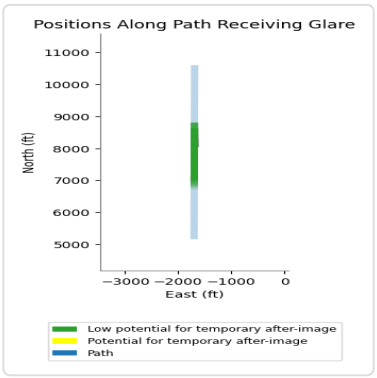
- 231 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4 low potential for temporary after-image

Predicted energy output: 833,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	194	0
OP: OP 21	153	0

OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	92	0
OP: OP 27	153	0
OP: OP 28	154	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	141	0
OP: OP 44	143	0
OP: OP 45	46	0
OP: OP 46	42	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	727	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	793	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	937	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	728	0

Array 1-4: OP 1

No glare found

Array 1-4: OP 2
No glare found

Array 1-4: OP 3
No glare found

Array 1-4: OP 4
No glare found

Array 1-4: OP 5
No glare found

Array 1-4: OP 6
No glare found

Array 1-4: OP 7
No glare found

Array 1-4: OP 8
No glare found

Array 1-4: OP 9
No glare found

Array 1-4: OP 10
No glare found

Array 1-4: OP 11
No glare found

Array 1-4: OP 12
No glare found

Array 1-4: OP 13
No glare found

Array 1-4: OP 14
No glare found

Array 1-4: OP 15
No glare found

Array 1-4: OP 16
No glare found

Array 1-4: OP 17

No glare found

Array 1-4: OP 18

No glare found

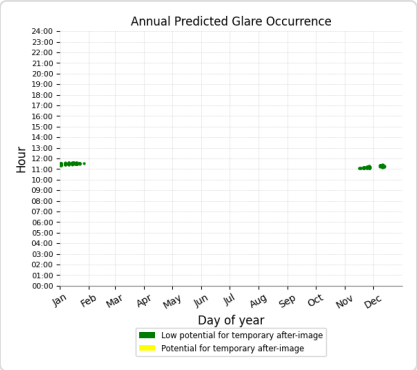
Array 1-4: OP 19

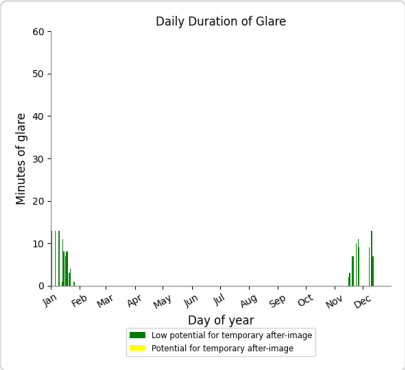
No glare found

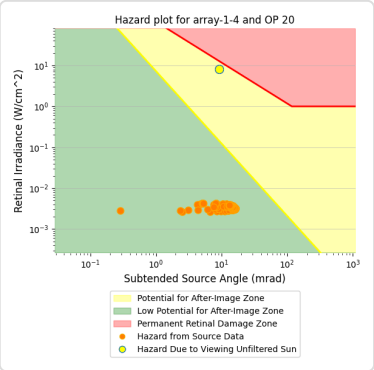
Array 1-4: OP 20

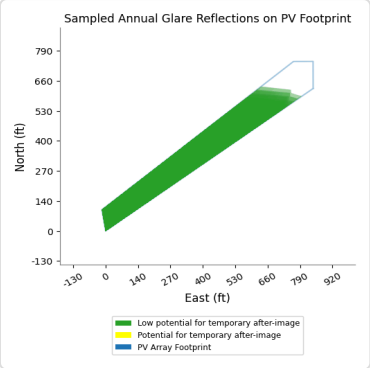
PV array is expected to produce the following glare for this receptor:

- 194 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





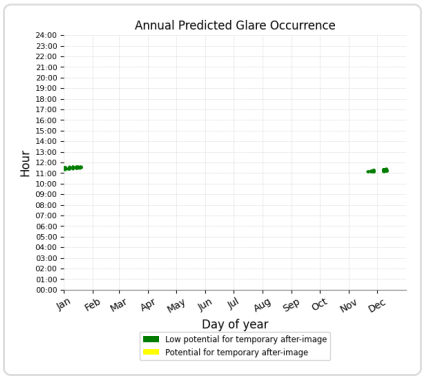


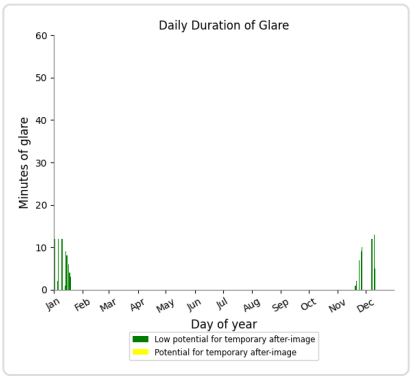


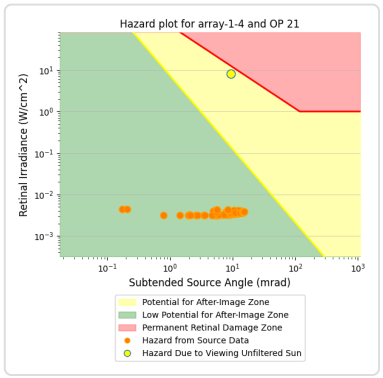
Array 1-4: OP 21

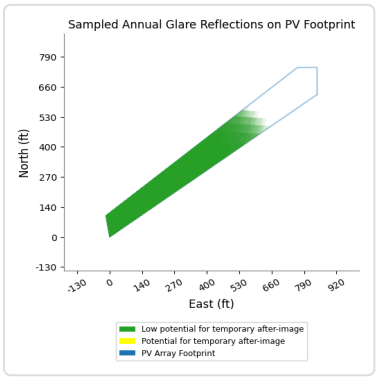
PV array is expected to produce the following glare for this receptor:

- 153 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 22

No glare found

Array 1-4: OP 23

No glare found

Array 1-4: OP 24

No glare found

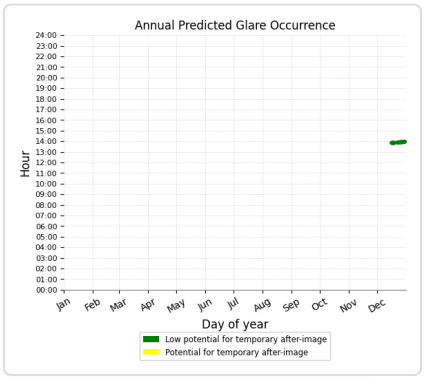
Array 1-4: OP 25

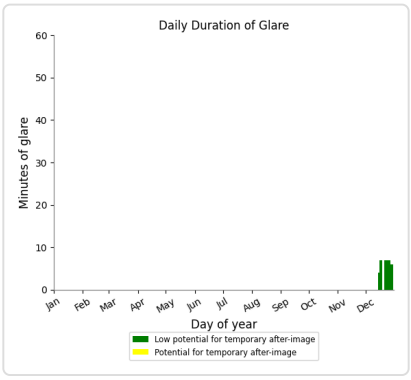
No glare found

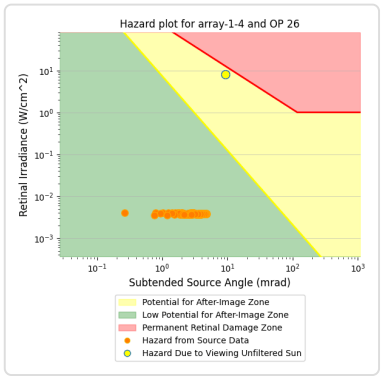
Array 1-4: OP 26

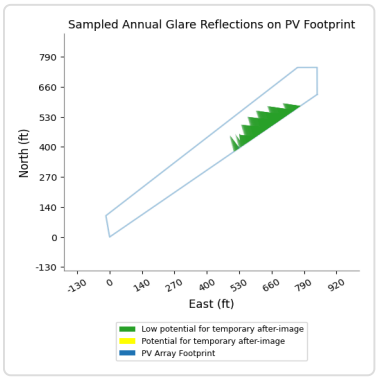
PV array is expected to produce the following glare for this receptor:

- 92 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





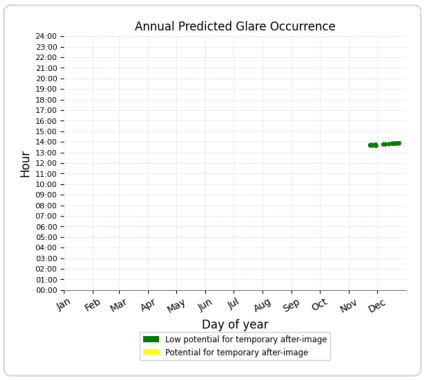


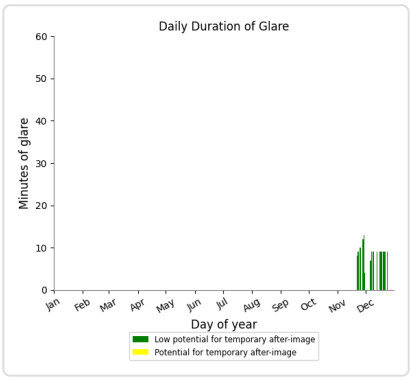


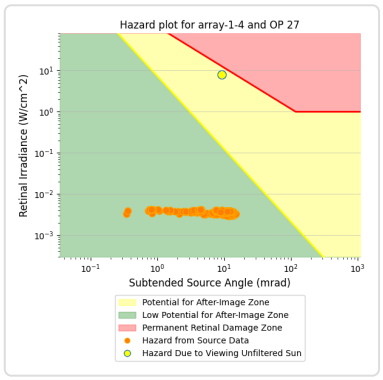
Array 1-4: OP 27

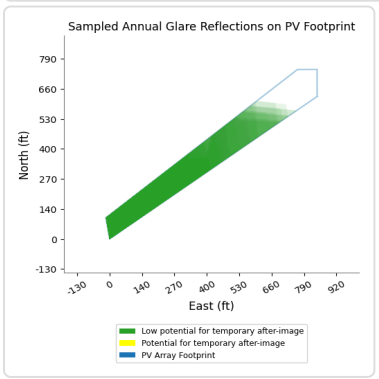
PV array is expected to produce the following glare for this receptor:

- 153 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





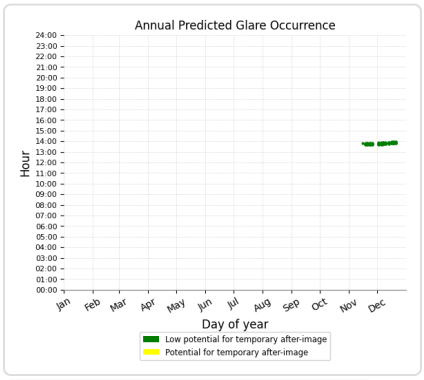


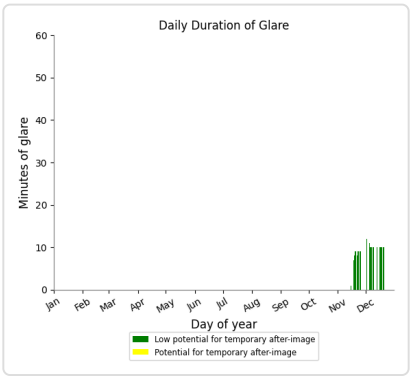


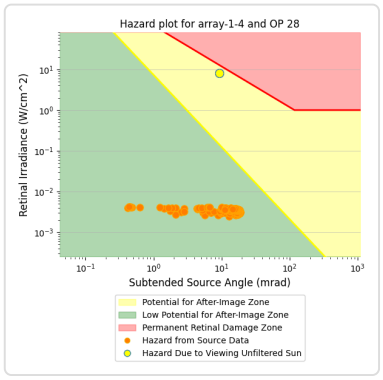
Array 1-4: OP 28

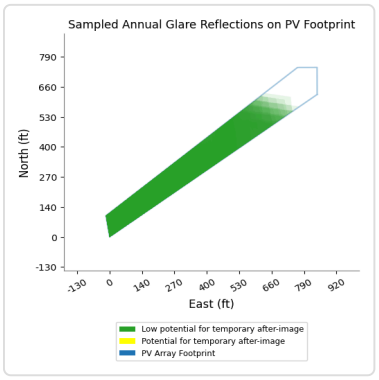
PV array is expected to produce the following glare for this receptor:

- 154 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 29

No glare found

Array 1-4: OP 30

No glare found

Array 1-4: OP 31

No glare found

Array 1-4: OP 32

No glare found

Array 1-4: OP 33

No glare found

Array 1-4: OP 34

No glare found

Array 1-4: OP 35

No glare found

Array 1-4: OP 36

No glare found

Array 1-4: OP 37

No glare found

Array 1-4: OP 38

No glare found

Array 1-4: OP 39

No glare found

Array 1-4: OP 40

No glare found

Array 1-4: OP 41

No glare found

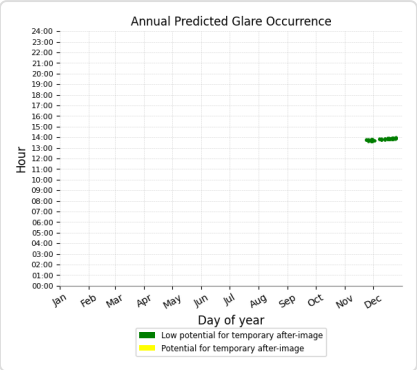
Array 1-4: OP 42

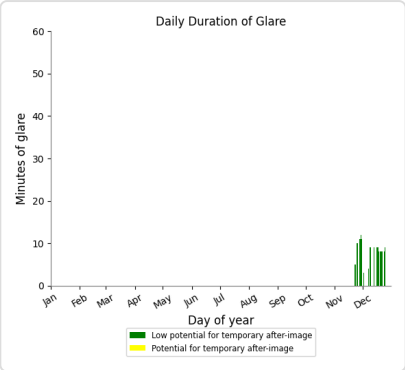
No glare found

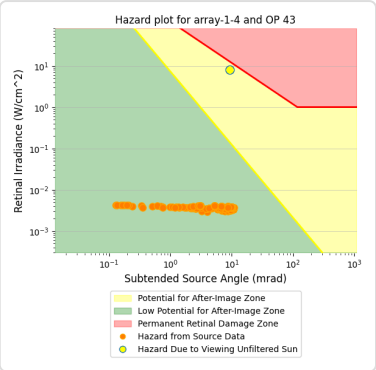
Array 1-4: OP 43

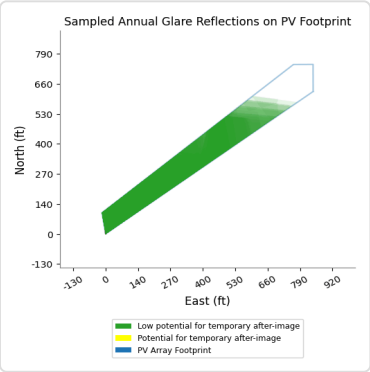
PV array is expected to produce the following glare for this receptor:

- 141 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





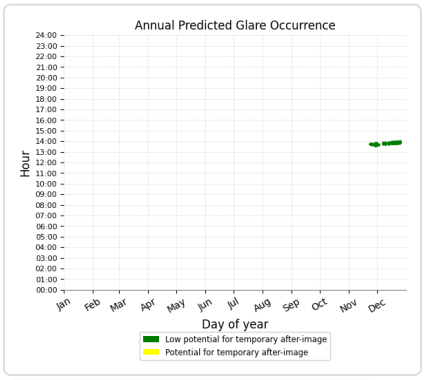


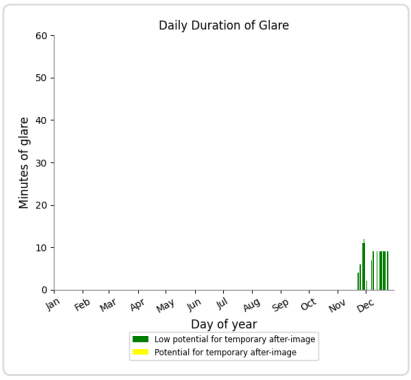


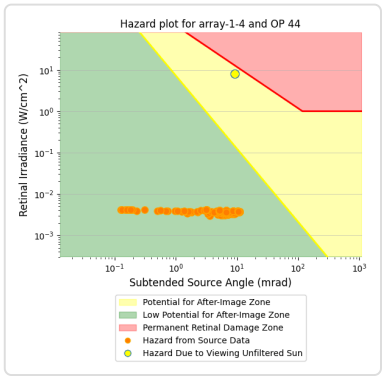
Array 1-4: OP 44

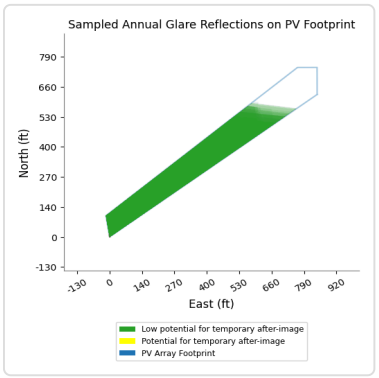
PV array is expected to produce the following glare for this receptor:

- 143 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





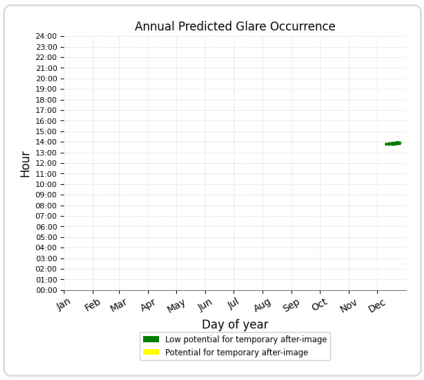


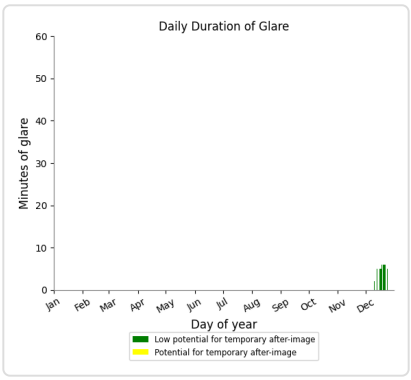


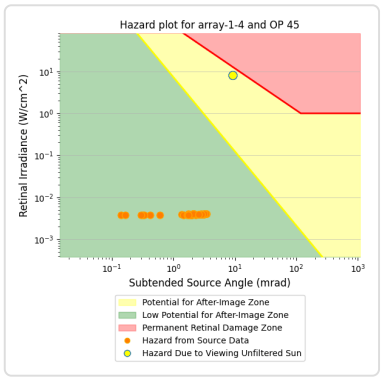
Array 1-4: OP 45

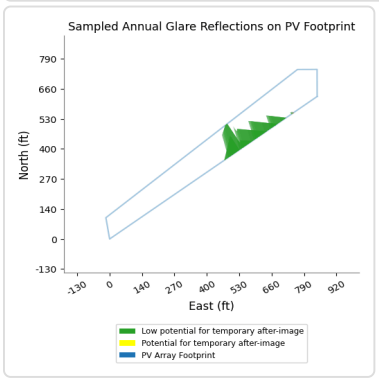
PV array is expected to produce the following glare for this receptor:

- 46 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





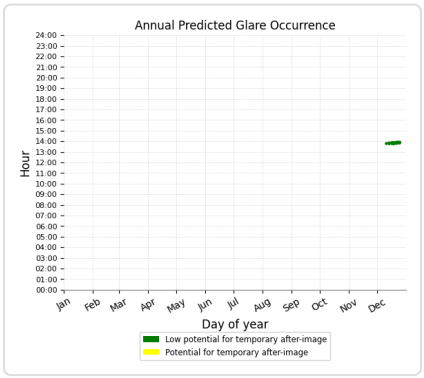


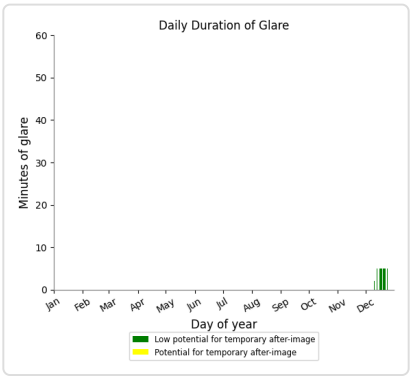


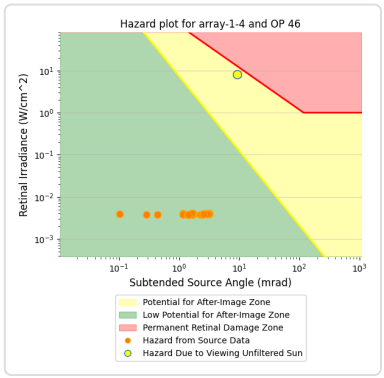
Array 1-4: OP 46

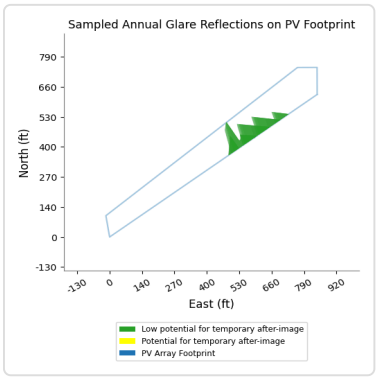
PV array is expected to produce the following glare for this receptor:

- 42 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 47

No glare found

Array 1-4: OP 48

No glare found

Array 1-4: OP 49

No glare found

Array 1-4: OP 50

No glare found

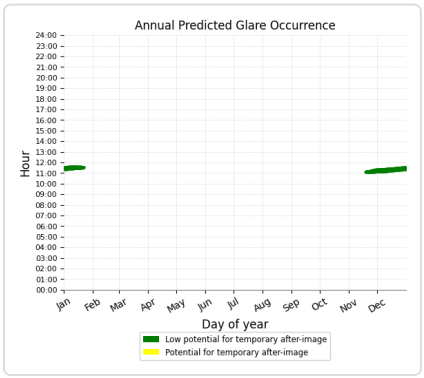
Array 1-4: Ball Rd

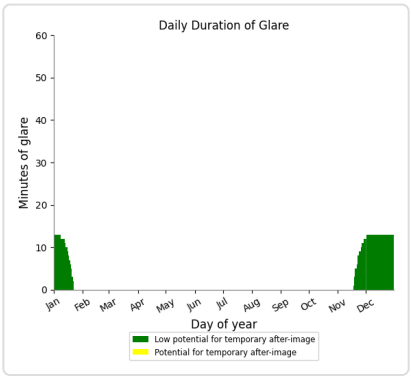
No glare found

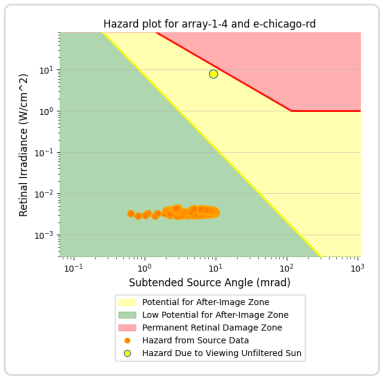
Array 1-4: E Chicago Rd

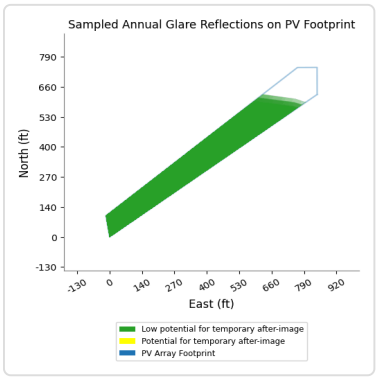
PV array is expected to produce the following glare for this receptor:

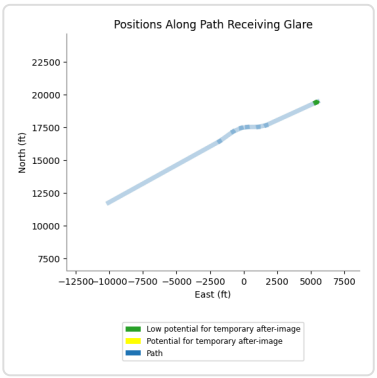
- 727 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











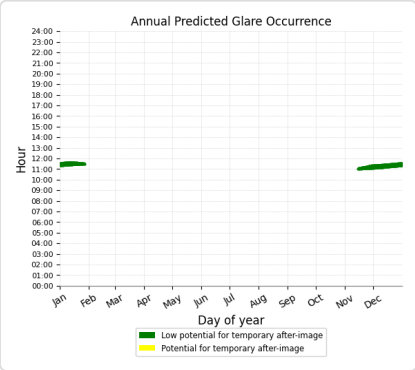
Array 1-4: Half Moon Lake Rd

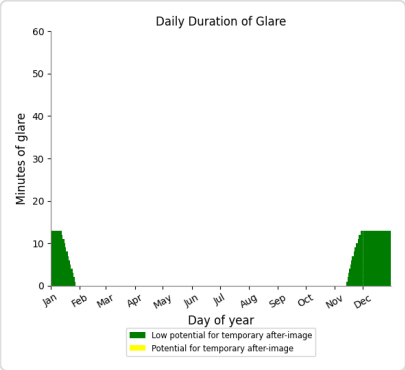
No glare found

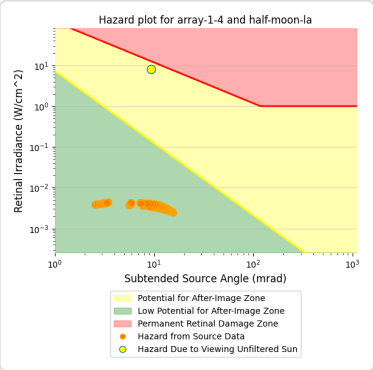
Array 1-4: Half Moon Lake Rd2

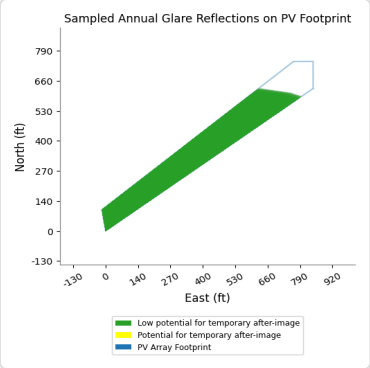
PV array is expected to produce the following glare for this receptor:

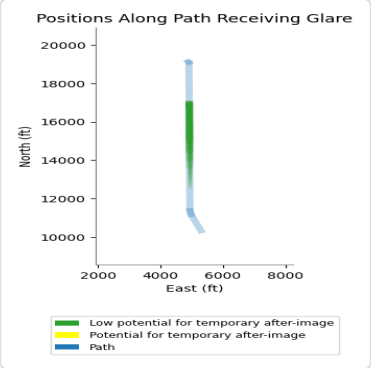
- 793 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Homer Rd

No glare found

Array 1-4: Mauck Rd

No glare found

Array 1-4: Milnes Rd

No glare found

Array 1-4: Montgomery St

No glare found

Array 1-4: Moore Rd E

No glare found

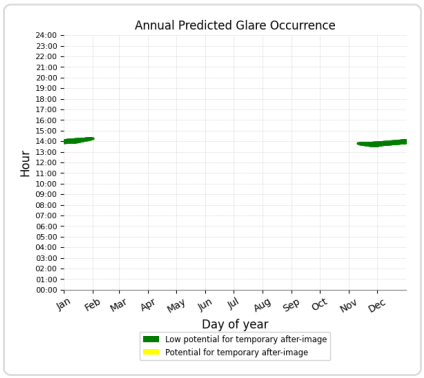
Array 1-4: N Adams Rd

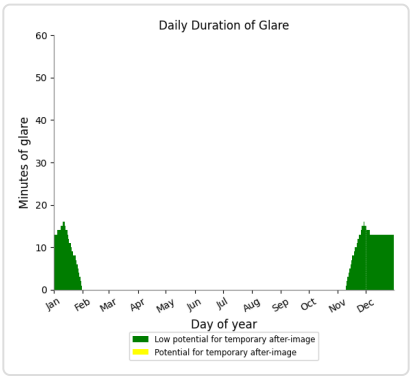
No glare found

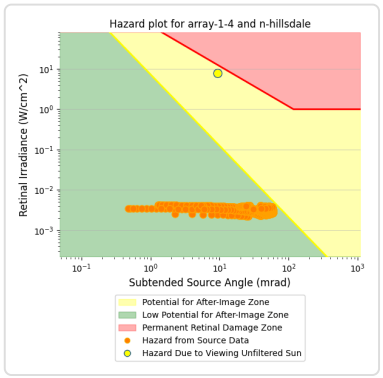
Array 1-4: N Hillsdale Rd

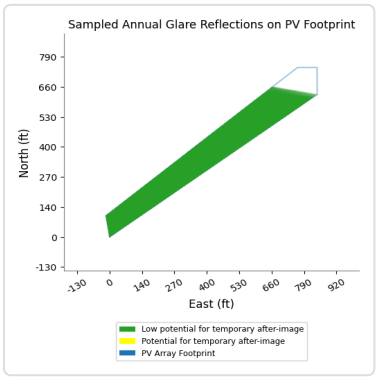
PV array is expected to produce the following glare for this receptor:

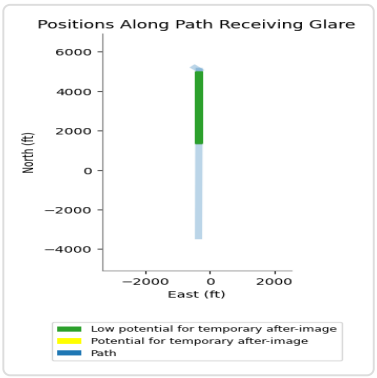
- 937 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Oak St

No glare found

Array 1-4: Parkwood Dr

No glare found

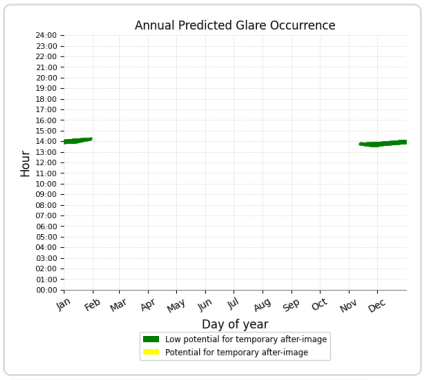
Array 1-4: Salem Dr

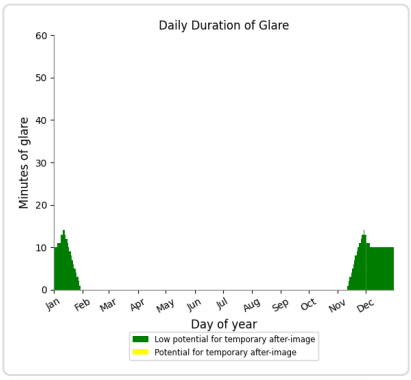
No glare found

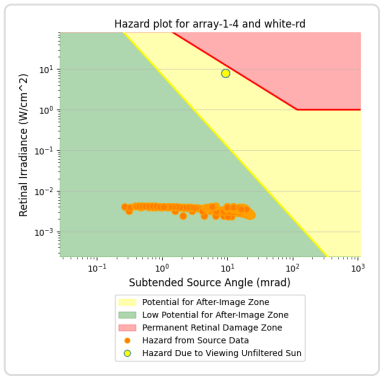
Array 1-4: White Rd

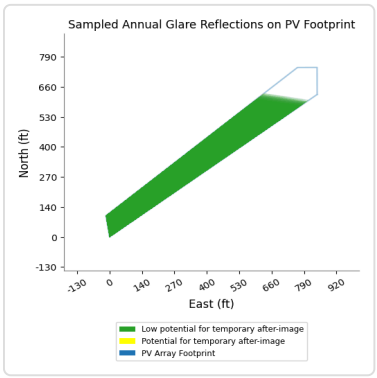
PV array is expected to produce the following glare for this receptor:

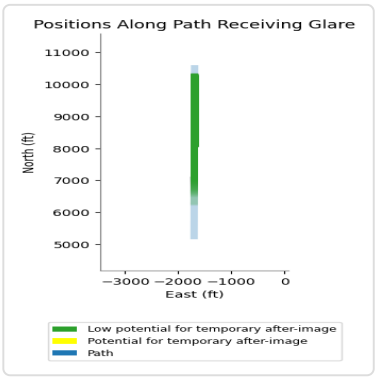
- 728 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 2-1 no glare found

Predicted energy output: 787,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-2 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-3 no glare found

Predicted energy output: 777,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-4 no glare found

Predicted energy output: 758,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-5 no glare found

Predicted energy output: 756,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-6 no glare found

Predicted energy output: 762,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-1 no glare found

Predicted energy output: 779,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-2 no glare found

Predicted energy output: 758,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-3 no glare found

Predicted energy output: 771,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-4 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-5 no glare found

Predicted energy output: 774,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-1 no glare found

Predicted energy output: 767,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-2 no glare found

Predicted energy output: 767,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-3 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-4 no glare found

Predicted energy output: 761,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-5 no glare found

Predicted energy output: 755,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs wARC 2

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162917.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 4-6	SA tracking	SA tracking	0	0	743,900.0
Array 4-7	SA tracking	SA tracking	3,631	0	861,200.0
Array 5-1	SA tracking	SA tracking	0	0	774,600.0
Array 6-1	SA tracking	SA tracking	0	0	766,600.0
Array 6-2	SA tracking	SA tracking	0	0	770,500.0
Array 6-3	SA tracking	SA tracking	0	0	767,200.0
Array 6-4	SA tracking	SA tracking	0	0	776,000.0
Array 7-1	SA tracking	SA tracking	0	0	782,600.0
Array 7-2	SA tracking	SA tracking	0	0	748,500.0
Array 7-3	SA tracking	SA tracking	0	0	759,300.0
Array 8-1	SA tracking	SA tracking	0	0	770,800.0
Array 8-2	SA tracking	SA tracking	2,502	0	809,300.0
Array 8-3	SA tracking	SA tracking	0	0	764,000.0
Array 9-1	SA tracking	SA tracking	0	0	776,000.0
Array 9-2	SA tracking	SA tracking	0	0	781,800.0
Array 9-3	SA tracking	SA tracking	0	0	770,600.0
Array 9-4	SA tracking	SA tracking	0	0	769,400.0
Array 9-5	SA tracking	SA tracking	0	0	765,500.0
Array 9-6	SA tracking	SA tracking	0	0	771,300.0
Array 9-7	SA tracking	SA tracking	0	0	717,000.0

Component Data

PV Array(s)

Total PV footprint area: 777.2 acres

Name: Array 4-6
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.965779	-84.604925	1106.36	6.00	1112.36
3	41.965777	-84.605528	1100.20	6.00	1106.20
4	41.966039	-84.605619	1106.68	6.00	1112.68
5	41.966959	-84.605566	1123.04	6.00	1129.04
6	41.967498	-84.605513	1125.37	6.00	1131.37
7	41.967691	-84.605473	1126.22	6.00	1132.22
8	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-7
Footprint area: 2.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965596	-84.603055	1109.79	6.00	1115.79
2	41.965525	-84.604431	1112.80	6.00	1118.80
3	41.965523	-84.604869	1103.46	6.00	1109.46
4	41.965779	-84.604925	1106.36	6.00	1112.36
5	41.966591	-84.603059	1110.78	6.00	1116.78
6	41.965596	-84.603055	1109.79	6.00	1115.79

Name: Array 5-1
Footprint area: 31.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

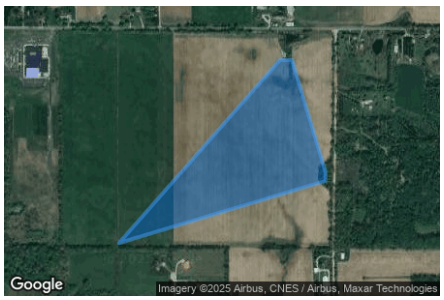
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.970950	-84.646327	1153.33	6.00	1159.33
2	41.970992	-84.648394	1137.46	6.00	1143.46
3	41.977712	-84.648408	1144.44	6.00	1150.44
4	41.977717	-84.646333	1129.66	6.00	1135.66
5	41.970950	-84.646327	1153.33	6.00	1159.33

Name: Array 6-1
Footprint area: 49.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973067	-84.637072	1150.02	6.00	1156.02
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977059	-84.639088	1147.44	6.00	1153.44
4	41.977056	-84.638550	1146.14	6.00	1152.14
5	41.973378	-84.637073	1151.24	6.00	1157.24
6	41.973067	-84.637072	1150.02	6.00	1156.02



Name: Array 6-2
Footprint area: 59.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977059	-84.639088	1147.44	6.00	1153.44
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977718	-84.646223	1129.69	6.00	1135.69
4	41.977652	-84.639351	1146.56	6.00	1152.56
5	41.977059	-84.639088	1147.44	6.00	1153.44

Name: Array 6-3
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973378	-84.637073	1151.24	6.00	1157.24
2	41.977056	-84.638550	1146.14	6.00	1152.14
3	41.977330	-84.638546	1147.63	6.00	1153.63
4	41.977331	-84.636913	1152.08	6.00	1158.08
5	41.973714	-84.636963	1152.39	6.00	1158.39
6	41.973378	-84.637073	1151.24	6.00	1157.24

Name: Array 6-4
Footprint area: 21.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.971018	-84.646217	1153.27	6.00	1159.27
2	41.973067	-84.637072	1150.02	6.00	1156.02
3	41.972974	-84.636975	1150.16	6.00	1156.16
4	41.971018	-84.637003	1168.83	6.00	1174.83
5	41.971018	-84.646217	1153.27	6.00	1159.27

Name: Array 7-1
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.980348	-84.649056	1112.34	6.00	1118.34
2	41.982619	-84.646353	1130.58	6.00	1136.58
3	41.979151	-84.646349	1131.69	6.00	1137.69
4	41.979156	-84.649054	1136.14	6.00	1142.14
5	41.980348	-84.649056	1112.34	6.00	1118.34

Name: Array 7-2
Footprint area: 4.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981523	-84.650101	1140.37	6.00	1146.37
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.980352	-84.651110	1106.46	6.00	1112.46
4	41.981525	-84.651116	1137.14	6.00	1143.14
5	41.981523	-84.650101	1140.37	6.00	1146.37

Name: Array 7-3
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982619	-84.646353	1130.58	6.00	1136.58
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.981523	-84.650101	1140.37	6.00	1146.37
4	41.982626	-84.649696	1142.71	6.00	1148.71
5	41.982619	-84.646353	1130.58	6.00	1136.58

Name: Array 8-1
Footprint area: 31.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985835	-84.646360	1146.10	6.00	1152.10
2	41.985026	-84.647658	1141.70	6.00	1147.70
3	41.985022	-84.648787	1134.51	6.00	1140.51
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.989860	-84.646384	1129.05	6.00	1135.05
6	41.985835	-84.646360	1146.10	6.00	1152.10

Name: Array 8-2
Footprint area: 7.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985022	-84.648787	1134.51	6.00	1140.51
2	41.984918	-84.648940	1143.07	6.00	1149.07
3	41.984922	-84.650800	1138.52	6.00	1144.52
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.985022	-84.648787	1134.51	6.00	1140.51

Name: Array 8-3
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

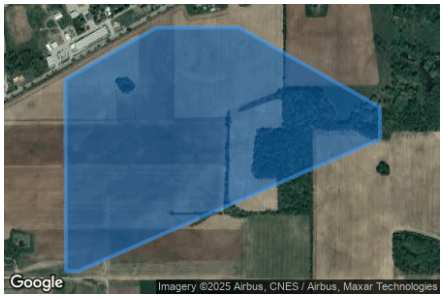
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985026	-84.647658	1141.70	6.00	1147.70
2	41.985835	-84.646360	1146.10	6.00	1152.10
3	41.983607	-84.646355	1130.68	6.00	1136.68
4	41.983611	-84.647649	1134.90	6.00	1140.90
5	41.985026	-84.647658	1141.70	6.00	1147.70

Name: Array 9-1
Footprint area: 161.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991653	-84.638587	1125.38	6.00	1131.38
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.987979	-84.632333	1145.50	6.00	1151.50
4	41.983612	-84.645709	1135.37	6.00	1141.37
5	41.983610	-84.646244	1131.44	6.00	1137.44
6	41.989929	-84.646273	1128.42	6.00	1134.42
7	41.991657	-84.642224	1124.94	6.00	1130.94
8	41.991653	-84.638587	1125.38	6.00	1131.38



Name: Array 9-2
Footprint area: 5.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982618	-84.645705	1130.67	6.00	1136.67
2	41.979420	-84.645230	1133.67	6.00	1139.67
3	41.979307	-84.645231	1133.82	6.00	1139.82
4	41.979305	-84.646239	1131.83	6.00	1137.83
5	41.980410	-84.646235	1124.28	6.00	1130.28
6	41.982619	-84.646243	1130.53	6.00	1136.53
7	41.982618	-84.645705	1130.67	6.00	1136.67

Name: Array 9-3
Footprint area: 49.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.984842	-84.622290	1136.16	6.00	1142.16
2	41.979488	-84.623949	1149.93	6.00	1155.93
3	41.979495	-84.627147	1148.17	6.00	1154.17
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.984842	-84.622290	1136.16	6.00	1142.16

Name: Array 9-4
Footprint area: 11.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979488	-84.623949	1149.93	6.00	1155.93
2	41.984842	-84.622290	1136.16	6.00	1142.16
3	41.979229	-84.622244	1147.67	6.00	1153.67
4	41.979232	-84.623894	1149.49	6.00	1155.49
5	41.979488	-84.623949	1149.93	6.00	1155.93

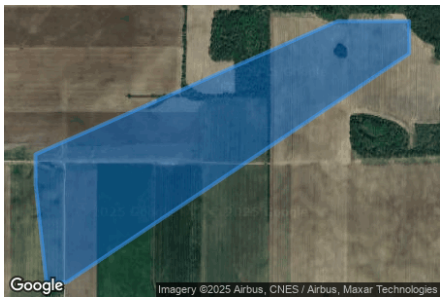
Name: Array 9-5
Footprint area: 165.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979420	-84.644327	1136.35	6.00	1142.35
2	41.986919	-84.629153	1149.61	6.00	1155.61
3	41.986914	-84.627157	1132.40	6.00	1138.40
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.979495	-84.627147	1148.17	6.00	1154.17
6	41.979240	-84.627200	1146.73	6.00	1152.73
7	41.979300	-84.644328	1136.42	6.00	1142.42
8	41.979420	-84.644327	1136.35	6.00	1142.35

Name: Array 9-6
Footprint area: 124.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983612	-84.645709	1135.37	6.00	1141.37
2	41.987979	-84.632333	1145.50	6.00	1151.50
3	41.987982	-84.629157	1120.58	6.00	1126.58
4	41.986919	-84.629153	1149.61	6.00	1155.61
5	41.979420	-84.644327	1136.35	6.00	1142.35
6	41.979420	-84.645230	1133.67	6.00	1139.67
7	41.982618	-84.645705	1130.67	6.00	1136.67
8	41.983612	-84.645709	1135.37	6.00	1141.37

Name: Array 9-7
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.992919	-84.635798	1130.18	6.00	1136.18
2	41.992991	-84.639344	1119.75	6.00	1125.75
3	41.993972	-84.637106	1143.33	6.00	1149.33
4	41.994320	-84.636300	1123.84	6.00	1129.84
5	41.994325	-84.635215	1125.34	6.00	1131.34
6	41.993183	-84.635215	1131.63	6.00	1137.63
7	41.992919	-84.635798	1130.18	6.00	1136.18

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

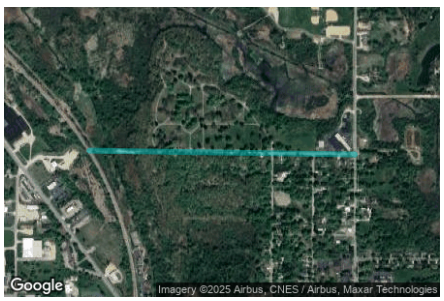
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

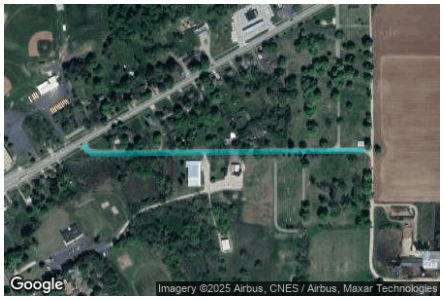
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

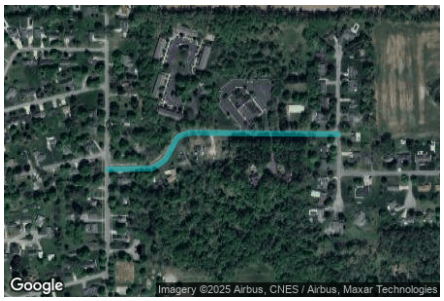
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988851	-84.650742	1129.93	6.00	1135.93
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Name: Obstruction 3
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.987884	-84.651107	1131.79
2	41.988271	-84.651085	1125.82
3	41.988470	-84.650586	1127.62

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 4-6	SA tracking	SA tracking	0	0	743,900.0	-
Array 4-7	SA tracking	SA tracking	3,631	0	861,200.0	-
Array 5-1	SA tracking	SA tracking	0	0	774,600.0	-
Array 6-1	SA tracking	SA tracking	0	0	766,600.0	-
Array 6-2	SA tracking	SA tracking	0	0	770,500.0	-
Array 6-3	SA tracking	SA tracking	0	0	767,200.0	-
Array 6-4	SA tracking	SA tracking	0	0	776,000.0	-
Array 7-1	SA tracking	SA tracking	0	0	782,600.0	-
Array 7-2	SA tracking	SA tracking	0	0	748,500.0	-
Array 7-3	SA tracking	SA tracking	0	0	759,300.0	-
Array 8-1	SA tracking	SA tracking	0	0	770,800.0	-
Array 8-2	SA tracking	SA tracking	2,502	0	809,300.0	-
Array 8-3	SA tracking	SA tracking	0	0	764,000.0	-
Array 9-1	SA tracking	SA tracking	0	0	776,000.0	-
Array 9-2	SA tracking	SA tracking	0	0	781,800.0	-
Array 9-3	SA tracking	SA tracking	0	0	770,600.0	-
Array 9-4	SA tracking	SA tracking	0	0	769,400.0	-
Array 9-5	SA tracking	SA tracking	0	0	765,500.0	-
Array 9-6	SA tracking	SA tracking	0	0	771,300.0	-
Array 9-7	SA tracking	SA tracking	0	0	717,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-4-7 (green)	862	610	15	0	0	0	0	0	0	389	833	868
array-4-7 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-8-2 (green)	779	117	0	0	0	0	0	0	0	14	591	1001
array-8-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 4-6 no glare found

Predicted energy output: 743,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-7 low potential for temporary after-image

Predicted energy output: 861,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	54	0
Route: Half Moon Lake Rd2	3577	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 4-7: OP 1

No glare found

Array 4-7: OP 2

No glare found

Array 4-7: OP 3
No glare found

Array 4-7: OP 4
No glare found

Array 4-7: OP 5
No glare found

Array 4-7: OP 6
No glare found

Array 4-7: OP 7
No glare found

Array 4-7: OP 8
No glare found

Array 4-7: OP 9
No glare found

Array 4-7: OP 10
No glare found

Array 4-7: OP 11
No glare found

Array 4-7: OP 12
No glare found

Array 4-7: OP 13
No glare found

Array 4-7: OP 14
No glare found

Array 4-7: OP 15
No glare found

Array 4-7: OP 16
No glare found

Array 4-7: OP 17
No glare found

Array 4-7: OP 18
No glare found

Array 4-7: OP 19
No glare found

Array 4-7: OP 20
No glare found

Array 4-7: OP 21
No glare found

Array 4-7: OP 22
No glare found

Array 4-7: OP 23
No glare found

Array 4-7: OP 24
No glare found

Array 4-7: OP 25
No glare found

Array 4-7: OP 26
No glare found

Array 4-7: OP 27
No glare found

Array 4-7: OP 28
No glare found

Array 4-7: OP 29
No glare found

Array 4-7: OP 30
No glare found

Array 4-7: OP 31
No glare found

Array 4-7: OP 32
No glare found

Array 4-7: OP 33
No glare found

Array 4-7: OP 34
No glare found

Array 4-7: OP 35
No glare found

Array 4-7: OP 36
No glare found

Array 4-7: OP 37
No glare found

Array 4-7: OP 38
No glare found

Array 4-7: OP 39
No glare found

Array 4-7: OP 40
No glare found

Array 4-7: OP 41
No glare found

Array 4-7: OP 42
No glare found

Array 4-7: OP 43
No glare found

Array 4-7: OP 44
No glare found

Array 4-7: OP 45
No glare found

Array 4-7: OP 46
No glare found

Array 4-7: OP 47
No glare found

Array 4-7: OP 48

No glare found

Array 4-7: OP 49

No glare found

Array 4-7: OP 50

No glare found

Array 4-7: Ball Rd

No glare found

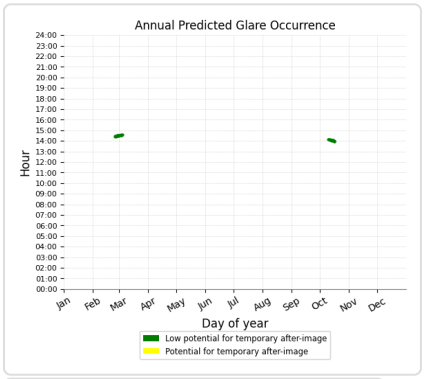
Array 4-7: E Chicago Rd

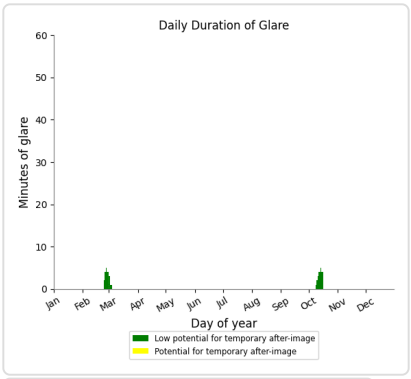
No glare found

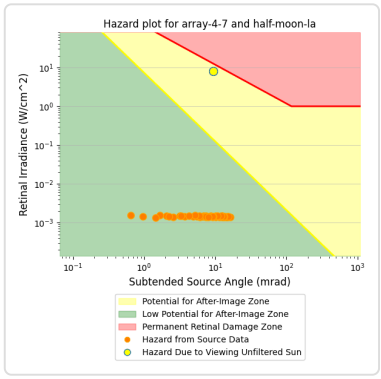
Array 4-7: Half Moon Lake Rd

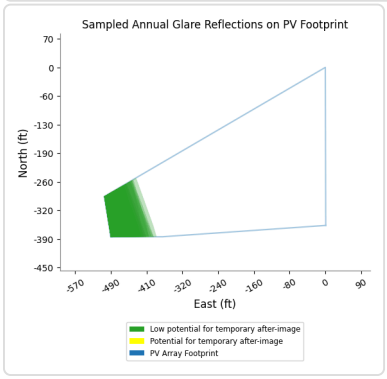
PV array is expected to produce the following glare for this receptor:

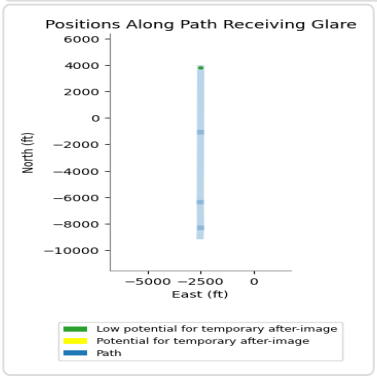
- 54 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.







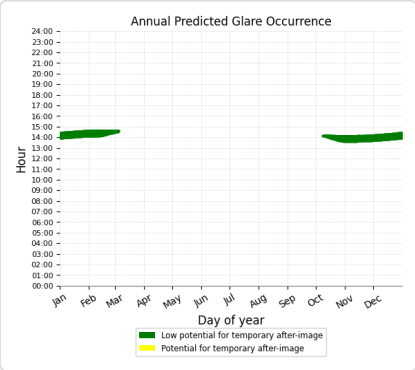


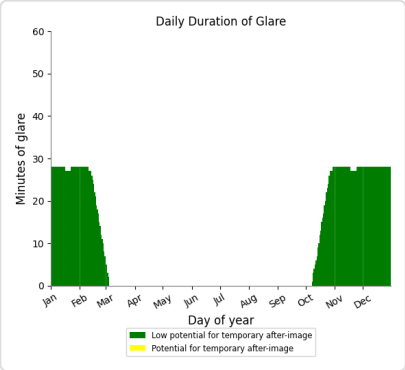


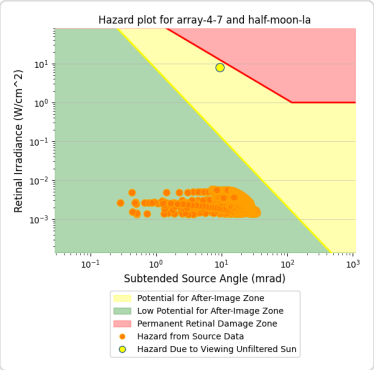
Array 4-7: Half Moon Lake Rd2

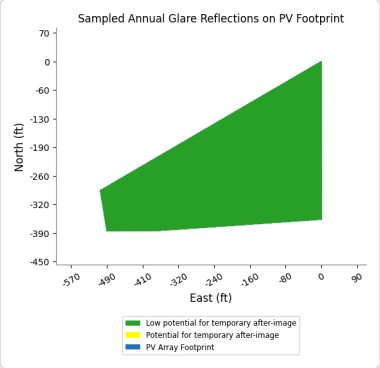
PV array is expected to produce the following glare for this receptor:

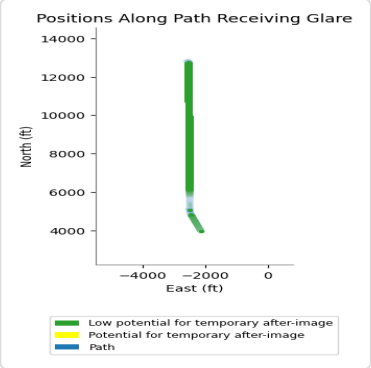
- 3,577 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 4-7: Homer Rd

No glare found

Array 4-7: Mauck Rd

No glare found

Array 4-7: Milnes Rd

No glare found

Array 4-7: Montgomery St

No glare found

Array 4-7: Moore Rd E

No glare found

Array 4-7: N Adams Rd

No glare found

Array 4-7: N Hillsdale Rd

No glare found

Array 4-7: Oak St

No glare found

Array 4-7: Parkwood Dr

No glare found

Array 4-7: Salem Dr

No glare found

Array 4-7: White Rd

No glare found

Array 5-1 no glare found

Predicted energy output: 774,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-1 no glare found

Predicted energy output: 766,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-2 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-3 no glare found

Predicted energy output: 767,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-4 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-1 no glare found

Predicted energy output: 782,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-2 no glare found

Predicted energy output: 748,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-3 no glare found

Predicted energy output: 759,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-1 no glare found

Predicted energy output: 770,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-2 low potential for temporary after-image

Predicted energy output: 809,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	2502	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 8-2: OP 1

No glare found

Array 8-2: OP 2

No glare found

Array 8-2: OP 3
No glare found

Array 8-2: OP 4
No glare found

Array 8-2: OP 5
No glare found

Array 8-2: OP 6
No glare found

Array 8-2: OP 7
No glare found

Array 8-2: OP 8
No glare found

Array 8-2: OP 9
No glare found

Array 8-2: OP 10
No glare found

Array 8-2: OP 11
No glare found

Array 8-2: OP 12
No glare found

Array 8-2: OP 13
No glare found

Array 8-2: OP 14
No glare found

Array 8-2: OP 15
No glare found

Array 8-2: OP 16
No glare found

Array 8-2: OP 17
No glare found

Array 8-2: OP 18
No glare found

Array 8-2: OP 19
No glare found

Array 8-2: OP 20
No glare found

Array 8-2: OP 21
No glare found

Array 8-2: OP 22
No glare found

Array 8-2: OP 23
No glare found

Array 8-2: OP 24
No glare found

Array 8-2: OP 25
No glare found

Array 8-2: OP 26
No glare found

Array 8-2: OP 27
No glare found

Array 8-2: OP 28
No glare found

Array 8-2: OP 29
No glare found

Array 8-2: OP 30
No glare found

Array 8-2: OP 31
No glare found

Array 8-2: OP 32
No glare found

Array 8-2: OP 33
No glare found

Array 8-2: OP 34
No glare found

Array 8-2: OP 35
No glare found

Array 8-2: OP 36
No glare found

Array 8-2: OP 37
No glare found

Array 8-2: OP 38
No glare found

Array 8-2: OP 39
No glare found

Array 8-2: OP 40
No glare found

Array 8-2: OP 41
No glare found

Array 8-2: OP 42
No glare found

Array 8-2: OP 43
No glare found

Array 8-2: OP 44
No glare found

Array 8-2: OP 45
No glare found

Array 8-2: OP 46
No glare found

Array 8-2: OP 47
No glare found

Array 8-2: OP 48

No glare found

Array 8-2: OP 49

No glare found

Array 8-2: OP 50

No glare found

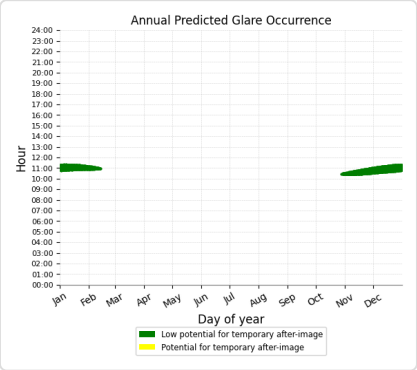
Array 8-2: Ball Rd

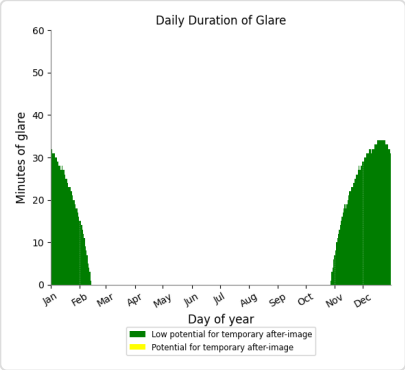
No glare found

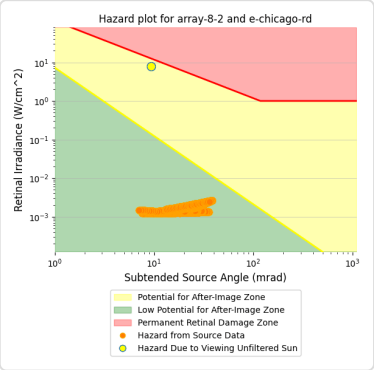
Array 8-2: E Chicago Rd

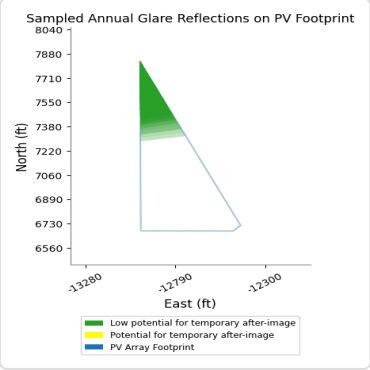
PV array is expected to produce the following glare for this receptor:

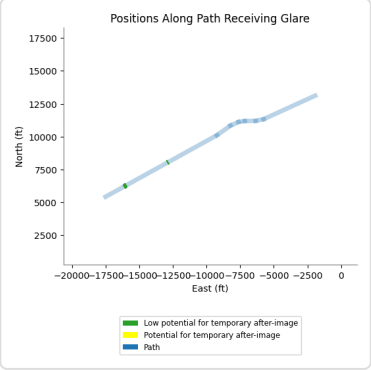
- 2,502 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 8-2: Half Moon Lake Rd

No glare found

Array 8-2: Half Moon Lake Rd2

No glare found

Array 8-2: Homer Rd

No glare found

Array 8-2: Mauck Rd
No glare found

Array 8-2: Milnes Rd
No glare found

Array 8-2: Montgomery St
No glare found

Array 8-2: Moore Rd E
No glare found

Array 8-2: N Adams Rd
No glare found

Array 8-2: N Hillsdale Rd
No glare found

Array 8-2: Oak St
No glare found

Array 8-2: Parkwood Dr
No glare found

Array 8-2: Salem Dr
No glare found

Array 8-2: White Rd
No glare found

Array 8-3 no glare found

Predicted energy output: 764,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-1 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-2 no glare found

Predicted energy output: 781,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-3 no glare found

Predicted energy output: 770,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-4 no glare found

Predicted energy output: 769,400.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-5 no glare found

Predicted energy output: 765,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-6 no glare found

Predicted energy output: 771,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-7 no glare found

Predicted energy output: 717,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

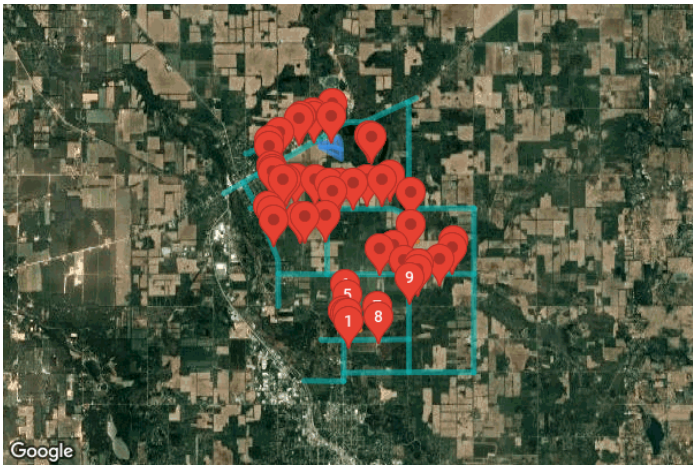
Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs wARC 3

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162939.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 9-10	SA tracking	SA tracking	0	0	781,300.0
Array 9-8	SA tracking	SA tracking	0	0	773,900.0
Array 9-9	SA tracking	SA tracking	0	0	725,300.0

Component Data

PV Array(s)

Total PV footprint area: 38.1 acres

Name: Array 9-10
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.991823	-84.634487	1126.53	6.00	1132.53
3	41.992367	-84.634487	1126.43	6.00	1132.43
4	41.993176	-84.634443	1128.92	6.00	1134.92
5	41.993986	-84.634138	1122.44	6.00	1128.44
6	41.993989	-84.633097	1118.75	6.00	1124.75
7	41.993177	-84.632580	1115.26	6.00	1121.26
8	41.992364	-84.632350	1127.60	6.00	1133.60
9	41.991192	-84.632345	1126.47	6.00	1132.47

Name: Array 9-8
Footprint area: 8.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991816	-84.635788	1138.98	6.00	1144.98
2	41.991653	-84.638587	1125.38	6.00	1131.38
3	41.992991	-84.639344	1119.75	6.00	1125.75
4	41.992919	-84.635798	1130.18	6.00	1136.18
5	41.991816	-84.635788	1138.98	6.00	1144.98

Name: Array 9-9
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.991653	-84.638587	1125.38	6.00	1131.38
4	41.991816	-84.635788	1138.98	6.00	1144.98
5	41.991823	-84.634487	1126.53	6.00	1132.53
6	41.991192	-84.632345	1126.47	6.00	1132.47

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

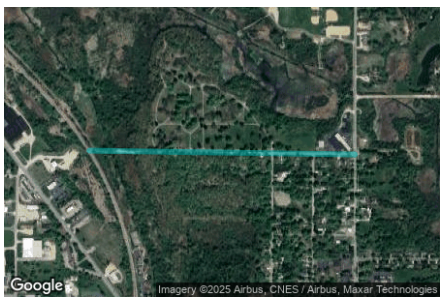
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

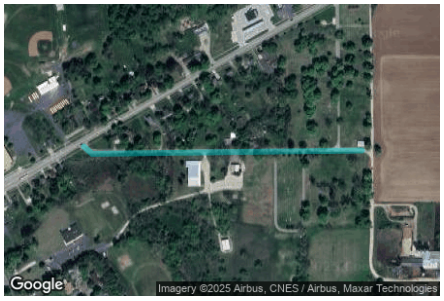
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

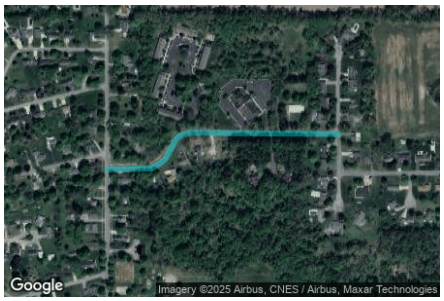
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988866	-84.650757	1130.76	6.00	1136.76
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 9-10	SA tracking	SA tracking	0	0	781,300.0	-
Array 9-8	SA tracking	SA tracking	0	0	773,900.0	-
Array 9-9	SA tracking	SA tracking	0	0	725,300.0	-

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 9-10 no glare found

Predicted energy output: 781,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-8 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-9 no glare found

Predicted energy output: 725,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs woARC 1

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162906.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 1-1	SA tracking	SA tracking	0	0	770,500.0
Array 1-2	SA tracking	SA tracking	0	0	793,300.0
Array 1-3	SA tracking	SA tracking	555	0	825,000.0
Array 1-4	SA tracking	SA tracking	3,818	0	833,300.0
Array 2-1	SA tracking	SA tracking	0	0	787,200.0
Array 2-2	SA tracking	SA tracking	0	0	773,900.0
Array 2-3	SA tracking	SA tracking	0	0	777,600.0
Array 2-4	SA tracking	SA tracking	0	0	758,800.0
Array 2-5	SA tracking	SA tracking	0	0	756,800.0
Array 2-6	SA tracking	SA tracking	0	0	762,100.0
Array 3-1	SA tracking	SA tracking	0	0	779,900.0
Array 3-2	SA tracking	SA tracking	0	0	758,000.0
Array 3-3	SA tracking	SA tracking	0	0	771,000.0
Array 3-4	SA tracking	SA tracking	0	0	782,700.0
Array 3-5	SA tracking	SA tracking	0	0	774,200.0
Array 4-1	SA tracking	SA tracking	0	0	767,700.0
Array 4-2	SA tracking	SA tracking	0	0	767,900.0
Array 4-3	SA tracking	SA tracking	0	0	782,700.0
Array 4-4	SA tracking	SA tracking	0	0	761,100.0
Array 4-5	SA tracking	SA tracking	0	0	755,000.0

Component Data

PV Array(s)

Total PV footprint area: 207.0 acres

Name: Array 1-1
Footprint area: 24.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949205	-84.630406	1109.74	6.00	1115.74
2	41.950912	-84.627317	1106.32	6.00	1112.32
3	41.950940	-84.622436	1085.16	6.00	1091.16
4	41.949251	-84.622429	1097.13	6.00	1103.13
5	41.949205	-84.630406	1109.74	6.00	1115.74

Name: Array 1-2
Footprint area: 7.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

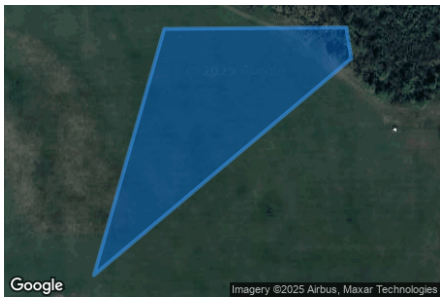
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951479	-84.629682	1106.34	6.00	1112.34
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.949456	-84.631168	1109.41	6.00	1115.41
4	41.952283	-84.631180	1094.93	6.00	1100.93
5	41.952292	-84.629685	1079.44	6.00	1085.44
6	41.951479	-84.629682	1106.34	6.00	1112.34

Name: Array 1-3
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951236	-84.627609	1098.14	6.00	1104.14
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.951479	-84.629682	1106.34	6.00	1112.34
4	41.951491	-84.627665	1076.24	6.00	1082.24
5	41.951236	-84.627609	1098.14	6.00	1104.14



Name: Array 1-4
Footprint area: 2.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

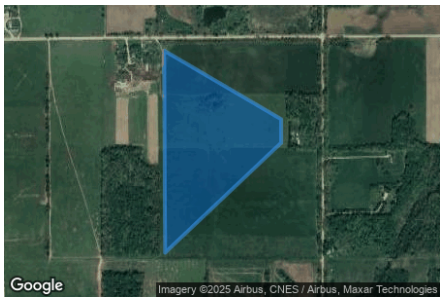
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.950912	-84.627317	1106.32	6.00	1112.32
2	41.949205	-84.630406	1109.74	6.00	1115.74
3	41.949460	-84.630461	1109.29	6.00	1115.29
4	41.951236	-84.627609	1098.14	6.00	1104.14
5	41.951237	-84.627318	1077.99	6.00	1083.99
6	41.950912	-84.627317	1106.32	6.00	1112.32

Name: Array 2-1
Footprint area: 43.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960158	-84.614096	1168.72	6.00	1174.72
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.963178	-84.619285	1151.82	6.00	1157.82
4	41.960930	-84.614099	1150.39	6.00	1156.39
5	41.960158	-84.614096	1168.72	6.00	1174.72



Name: Array 2-2
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962284	-84.613998	1136.69	6.00	1142.69
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.963208	-84.612597	1124.72	6.00	1130.72
4	41.962290	-84.612602	1133.03	6.00	1139.03
5	41.962284	-84.613998	1136.69	6.00	1142.69

Name: Array 2-3
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960930	-84.614099	1150.39	6.00	1156.39
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.962284	-84.613998	1136.69	6.00	1142.69
4	41.961258	-84.613987	1145.76	6.00	1151.76
5	41.960930	-84.614099	1150.39	6.00	1156.39

Name: Array 2-4
Footprint area: 11.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.960158	-84.614096	1168.72	6.00	1174.72
4	41.959789	-84.613911	1174.02	6.00	1180.02
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-5
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.959789	-84.613911	1174.02	6.00	1180.02
3	41.959794	-84.612705	1158.37	6.00	1164.37
4	41.957533	-84.612697	1137.11	6.00	1143.11
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-6
Footprint area: 4.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.956554	-84.619241	1152.14	6.00	1158.14
2	41.957527	-84.615291	1146.01	6.00	1152.01
3	41.956575	-84.615287	1137.71	6.00	1143.71
4	41.956554	-84.619241	1152.14	6.00	1158.14

Name: Array 3-1
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960125	-84.612001	1141.66	6.00	1147.66
2	41.962778	-84.611186	1108.50	6.00	1114.50
3	41.962784	-84.609783	1110.84	6.00	1116.84
4	41.960976	-84.609172	1138.99	6.00	1144.99
5	41.960137	-84.609220	1143.78	6.00	1149.78
6	41.960125	-84.612001	1141.66	6.00	1147.66

Name: Array 3-2
Footprint area: 0.66 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961269	-84.608152	1121.08	6.00	1127.08
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961198	-84.607865	1114.31	6.00	1120.31
4	41.961197	-84.608152	1119.60	6.00	1125.60
5	41.961269	-84.608152	1121.08	6.00	1127.08

Name: Array 3-3
Footprint area: 0.25 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961382	-84.608248	1124.44	6.00	1130.44
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961269	-84.608152	1121.08	6.00	1127.08
4	41.961382	-84.608248	1124.44	6.00	1130.44

Name: Array 3-4
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960976	-84.609172	1138.99	6.00	1144.99
2	41.962784	-84.609783	1110.84	6.00	1116.84
3	41.963223	-84.609784	1106.63	6.00	1112.63
4	41.963227	-84.607873	1104.33	6.00	1110.33
5	41.961382	-84.608248	1124.44	6.00	1130.44
6	41.960976	-84.609172	1138.99	6.00	1144.99

Name: Array 3-5
Footprint area: 3.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962778	-84.611186	1108.50	6.00	1114.50
2	41.960125	-84.612001	1141.66	6.00	1147.66
3	41.963210	-84.611984	1117.50	6.00	1123.50
4	41.963213	-84.611201	1106.02	6.00	1112.02
5	41.962778	-84.611186	1108.50	6.00	1114.50

Name: Array 4-1
Footprint area: 16.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.967691	-84.605473	1126.22	6.00	1132.22
3	41.968748	-84.605477	1126.71	6.00	1132.71
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.966592	-84.602774	1110.33	6.00	1116.33
6	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-2
Footprint area: 28.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

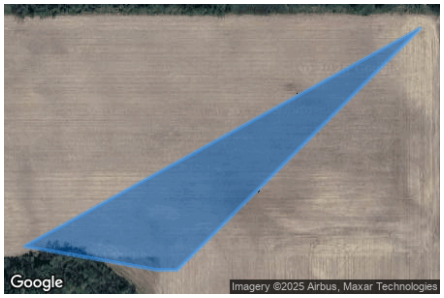
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968942	-84.607166	1128.02	6.00	1134.02
2	41.968927	-84.612047	1146.74	6.00	1152.74
3	41.970703	-84.612059	1158.00	6.00	1164.00
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968942	-84.607166	1128.02	6.00	1134.02

Name: Array 4-3
Footprint area: 4.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

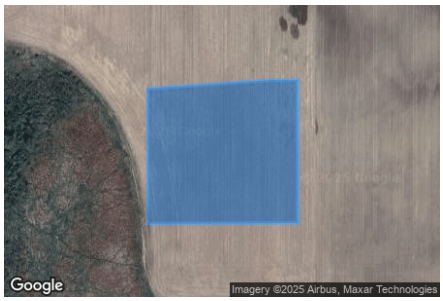
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968748	-84.605477	1126.71	6.00	1132.71
2	41.968747	-84.605705	1127.66	6.00	1133.66
3	41.968942	-84.607166	1128.02	6.00	1134.02
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968748	-84.605477	1126.71	6.00	1132.71



Name: Array 4-4
Footprint area: 4.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965525	-84.604431	1112.80	6.00	1118.80
2	41.965596	-84.603055	1109.79	6.00	1115.79
3	41.965597	-84.602770	1109.55	6.00	1115.55
4	41.964425	-84.602765	1111.32	6.00	1117.32
5	41.964418	-84.604427	1096.71	6.00	1102.71
6	41.965522	-84.604431	1112.80	6.00	1118.80
7	41.965525	-84.604431	1112.80	6.00	1118.80



Name: Array 4-5
Footprint area: 2.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966039	-84.605619	1106.68	6.00	1112.68
2	41.966034	-84.606832	1100.43	6.00	1106.43
3	41.966952	-84.606836	1116.73	6.00	1122.73
4	41.966959	-84.605566	1123.04	6.00	1129.04
5	41.966039	-84.605619	1106.68	6.00	1112.68

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

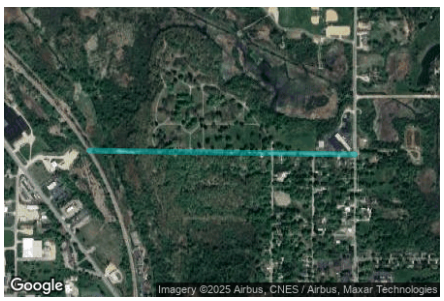
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

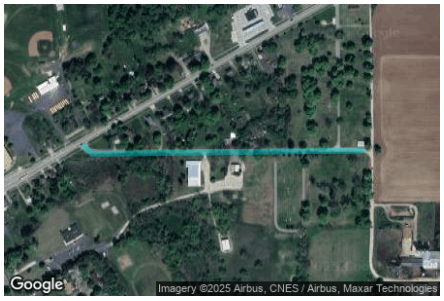
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

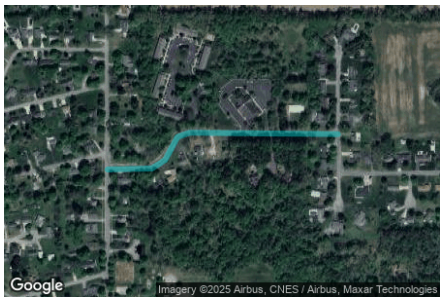
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988866	-84.650757	1130.76	6.00	1136.76
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 1-1	SA tracking	SA tracking	0	0	770,500.0	-
Array 1-2	SA tracking	SA tracking	0	0	793,300.0	-
Array 1-3	SA tracking	SA tracking	555	0	825,000.0	-
Array 1-4	SA tracking	SA tracking	3,818	0	833,300.0	-
Array 2-1	SA tracking	SA tracking	0	0	787,200.0	-
Array 2-2	SA tracking	SA tracking	0	0	773,900.0	-
Array 2-3	SA tracking	SA tracking	0	0	777,600.0	-
Array 2-4	SA tracking	SA tracking	0	0	758,800.0	-
Array 2-5	SA tracking	SA tracking	0	0	756,800.0	-
Array 2-6	SA tracking	SA tracking	0	0	762,100.0	-
Array 3-1	SA tracking	SA tracking	0	0	779,900.0	-
Array 3-2	SA tracking	SA tracking	0	0	758,000.0	-
Array 3-3	SA tracking	SA tracking	0	0	771,000.0	-
Array 3-4	SA tracking	SA tracking	0	0	782,700.0	-
Array 3-5	SA tracking	SA tracking	0	0	774,200.0	-
Array 4-1	SA tracking	SA tracking	0	0	767,700.0	-
Array 4-2	SA tracking	SA tracking	0	0	767,900.0	-
Array 4-3	SA tracking	SA tracking	0	0	782,700.0	-
Array 4-4	SA tracking	SA tracking	0	0	761,100.0	-
Array 4-5	SA tracking	SA tracking	0	0	755,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-1-3 (green)	65	0	0	0	0	0	0	0	0	0	8	263
array-1-3 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-4 (green)	484	0	0	0	0	0	0	0	0	0	233	815
array-1-4 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 1-1 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 1-2 no glare found

Predicted energy output: 793,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 1-3 low potential for temporary after-image

Predicted energy output: 825,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	40	0
OP: OP 21	32	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	68	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	68	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	262	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	85	0

Array 1-3: OP 1

No glare found

Array 1-3: OP 2

No glare found

Array 1-3: OP 3
No glare found

Array 1-3: OP 4
No glare found

Array 1-3: OP 5
No glare found

Array 1-3: OP 6
No glare found

Array 1-3: OP 7
No glare found

Array 1-3: OP 8
No glare found

Array 1-3: OP 9
No glare found

Array 1-3: OP 10
No glare found

Array 1-3: OP 11
No glare found

Array 1-3: OP 12
No glare found

Array 1-3: OP 13
No glare found

Array 1-3: OP 14
No glare found

Array 1-3: OP 15
No glare found

Array 1-3: OP 16
No glare found

Array 1-3: OP 17
No glare found

Array 1-3: OP 18

No glare found

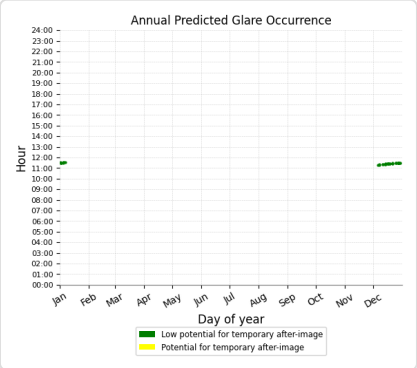
Array 1-3: OP 19

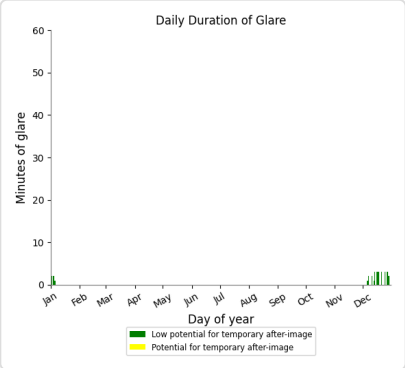
No glare found

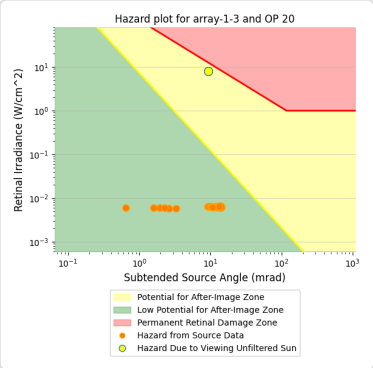
Array 1-3: OP 20

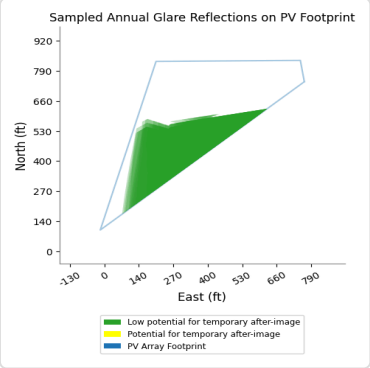
PV array is expected to produce the following glare for this receptor:

- 40 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





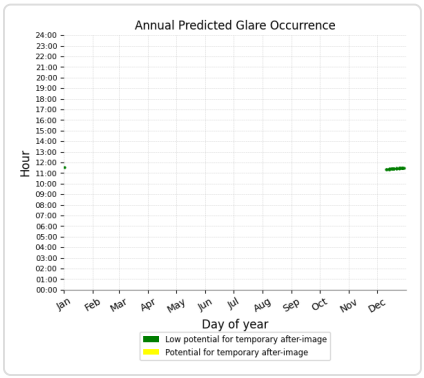


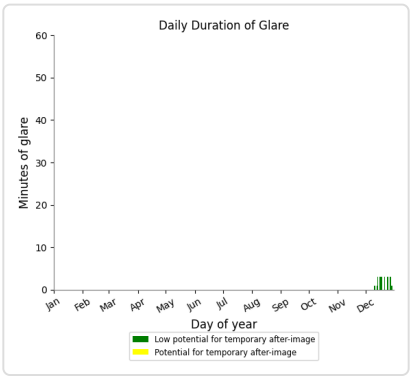


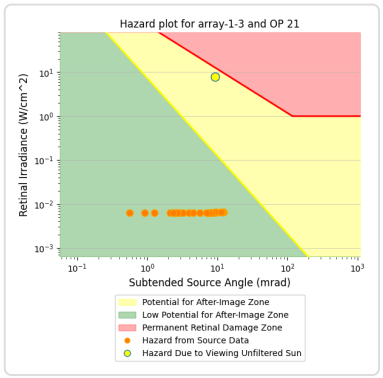
Array 1-3: OP 21

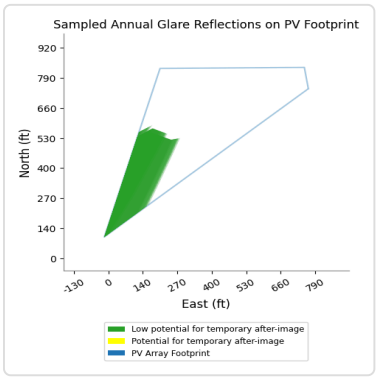
PV array is expected to produce the following glare for this receptor:

- 32 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-3: OP 22

No glare found

Array 1-3: OP 23

No glare found

Array 1-3: OP 24

No glare found

Array 1-3: OP 25

No glare found

Array 1-3: OP 26

No glare found

Array 1-3: OP 27

No glare found

Array 1-3: OP 28

No glare found

Array 1-3: OP 29

No glare found

Array 1-3: OP 30
No glare found

Array 1-3: OP 31
No glare found

Array 1-3: OP 32
No glare found

Array 1-3: OP 33
No glare found

Array 1-3: OP 34
No glare found

Array 1-3: OP 35
No glare found

Array 1-3: OP 36
No glare found

Array 1-3: OP 37
No glare found

Array 1-3: OP 38
No glare found

Array 1-3: OP 39
No glare found

Array 1-3: OP 40
No glare found

Array 1-3: OP 41
No glare found

Array 1-3: OP 42
No glare found

Array 1-3: OP 43
No glare found

Array 1-3: OP 44
No glare found

Array 1-3: OP 45

No glare found

Array 1-3: OP 46

No glare found

Array 1-3: OP 47

No glare found

Array 1-3: OP 48

No glare found

Array 1-3: OP 49

No glare found

Array 1-3: OP 50

No glare found

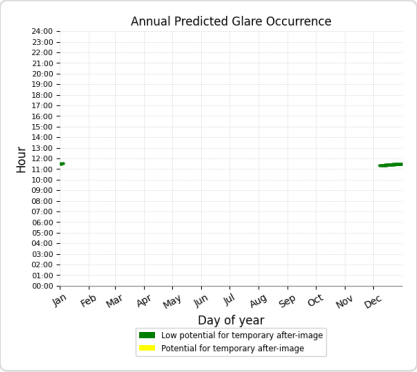
Array 1-3: Ball Rd

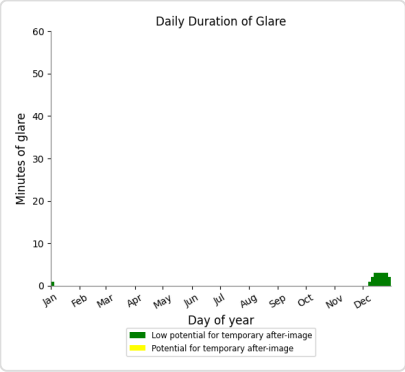
No glare found

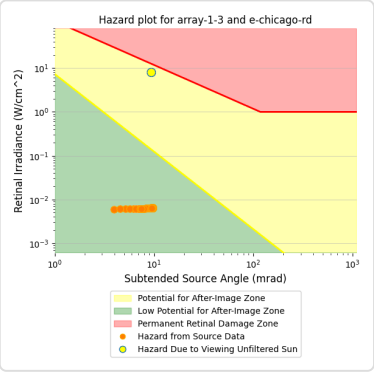
Array 1-3: E Chicago Rd

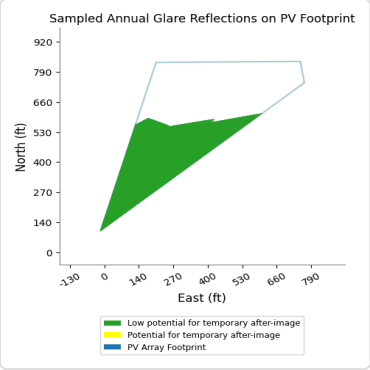
PV array is expected to produce the following glare for this receptor:

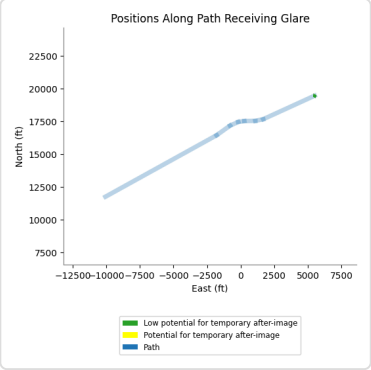
- 68 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











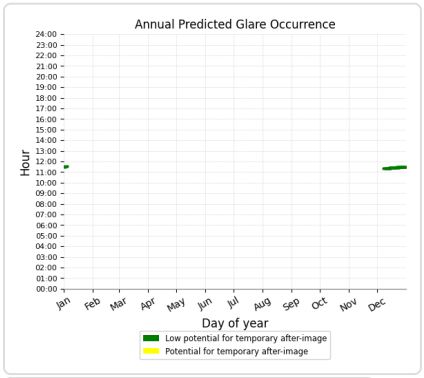
Array 1-3: Half Moon Lake Rd

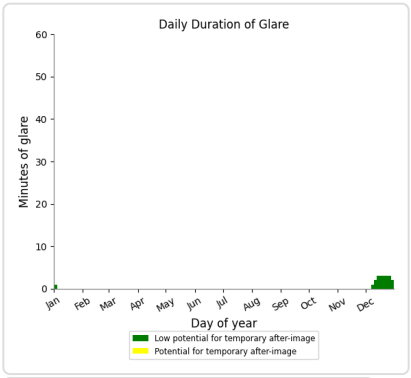
No glare found

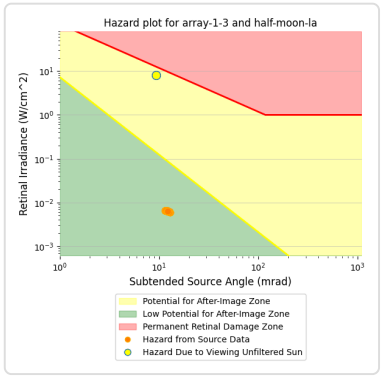
Array 1-3: Half Moon Lake Rd2

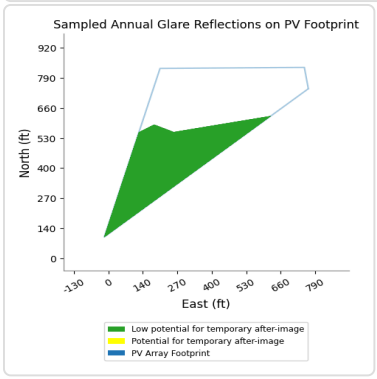
PV array is expected to produce the following glare for this receptor:

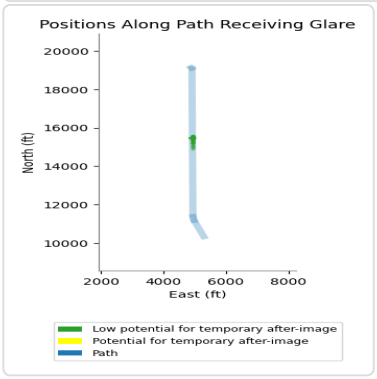
- 68 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Homer Rd

No glare found

Array 1-3: Mauck Rd

No glare found

Array 1-3: Milnes Rd

No glare found

Array 1-3: Montgomery St

No glare found

Array 1-3: Moore Rd E

No glare found

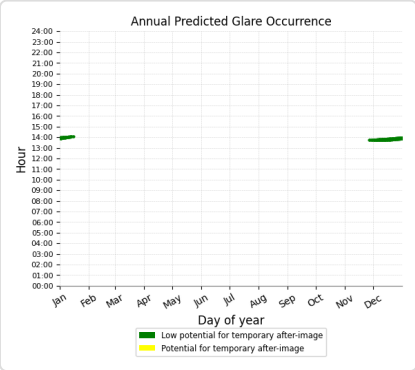
Array 1-3: N Adams Rd

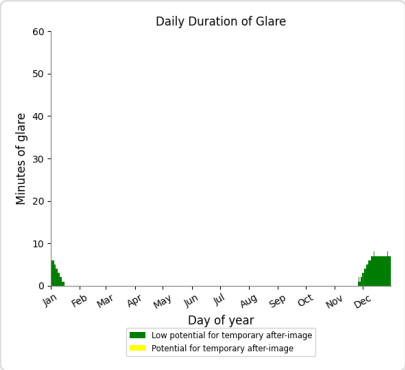
No glare found

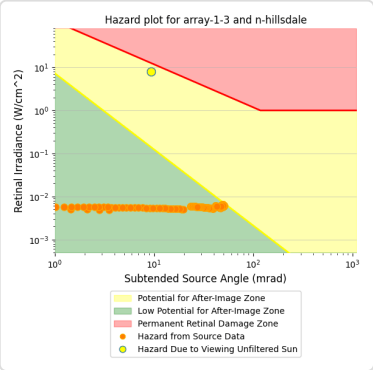
Array 1-3: N Hillsdale Rd

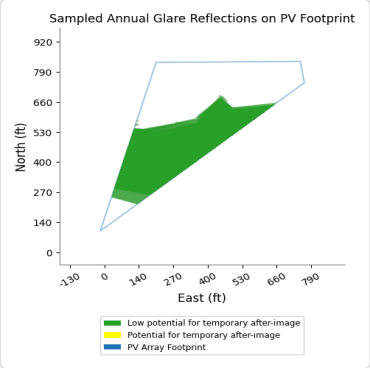
PV array is expected to produce the following glare for this receptor:

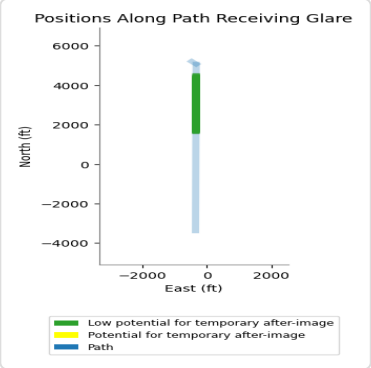
- 262 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Oak St

No glare found

Array 1-3: Parkwood Dr

No glare found

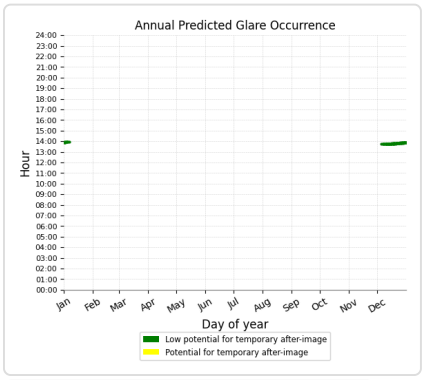
Array 1-3: Salem Dr

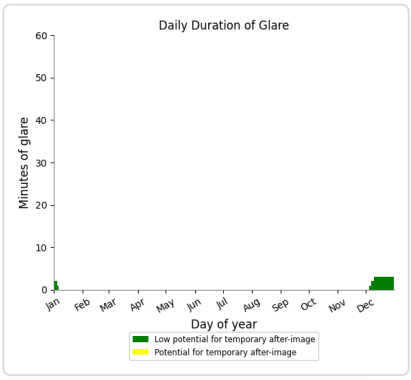
No glare found

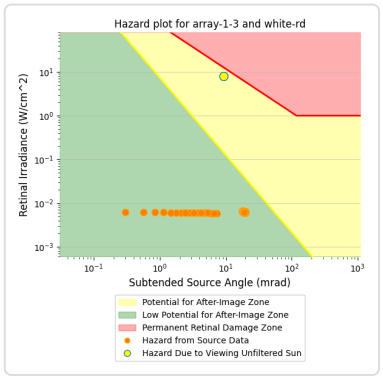
Array 1-3: White Rd

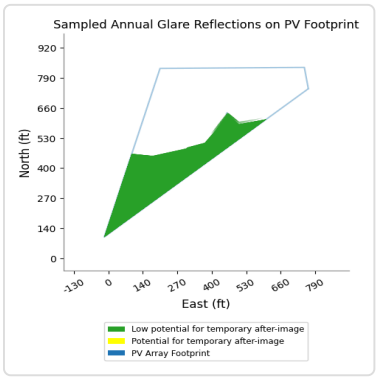
PV array is expected to produce the following glare for this receptor:

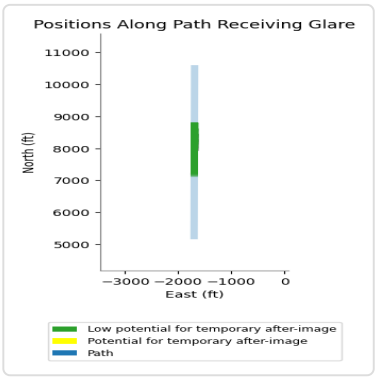
- 85 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4 low potential for temporary after-image

Predicted energy output: 833,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	207	0
OP: OP 21	169	0

OP: OP 22	0	0
OP: OP 23	17	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	22	0
OP: OP 27	142	0
OP: OP 28	161	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	120	0
OP: OP 44	123	0
OP: OP 45	41	0
OP: OP 46	20	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	655	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	688	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	827	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	626	0

Array 1-4: OP 1

No glare found

Array 1-4: OP 2
No glare found

Array 1-4: OP 3
No glare found

Array 1-4: OP 4
No glare found

Array 1-4: OP 5
No glare found

Array 1-4: OP 6
No glare found

Array 1-4: OP 7
No glare found

Array 1-4: OP 8
No glare found

Array 1-4: OP 9
No glare found

Array 1-4: OP 10
No glare found

Array 1-4: OP 11
No glare found

Array 1-4: OP 12
No glare found

Array 1-4: OP 13
No glare found

Array 1-4: OP 14
No glare found

Array 1-4: OP 15
No glare found

Array 1-4: OP 16
No glare found

Array 1-4: OP 17

No glare found

Array 1-4: OP 18

No glare found

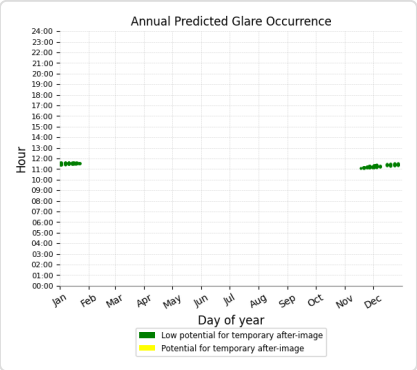
Array 1-4: OP 19

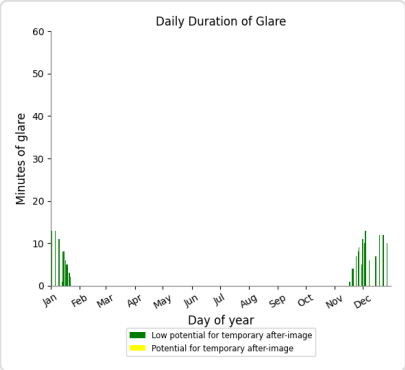
No glare found

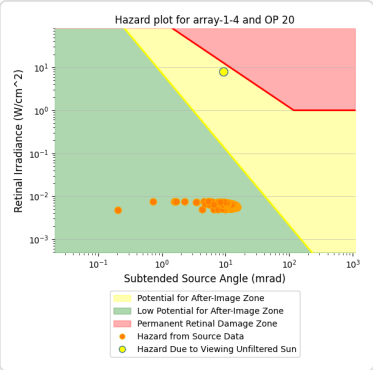
Array 1-4: OP 20

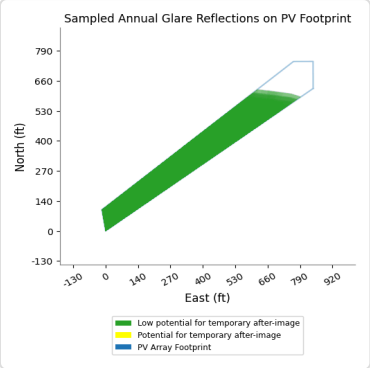
PV array is expected to produce the following glare for this receptor:

- 207 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





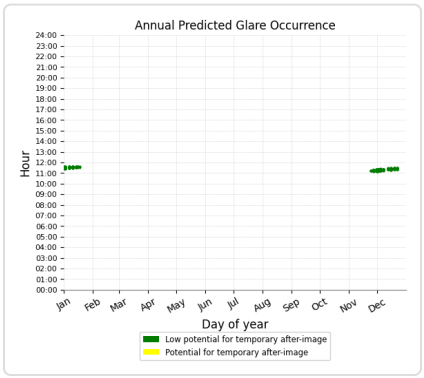


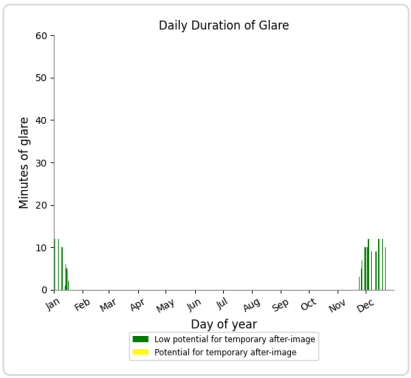


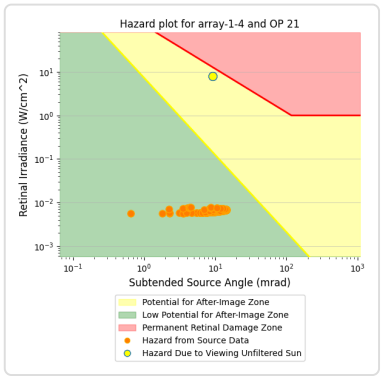
Array 1-4: OP 21

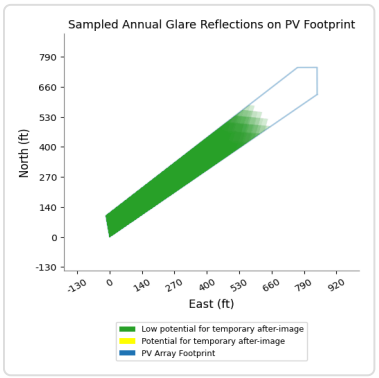
PV array is expected to produce the following glare for this receptor:

- 169 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









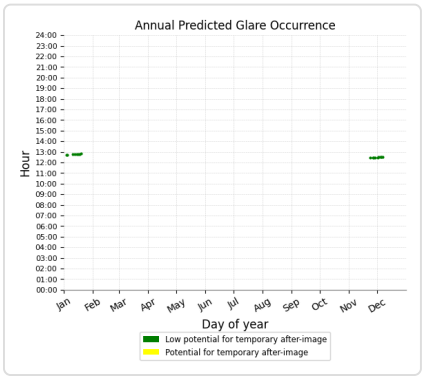
Array 1-4: OP 22

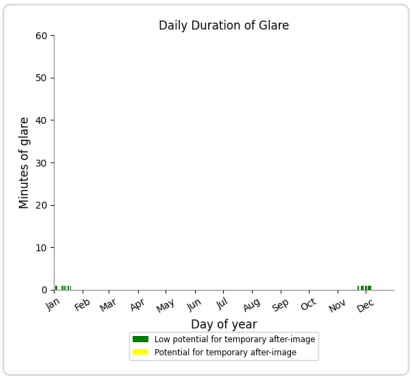
No glare found

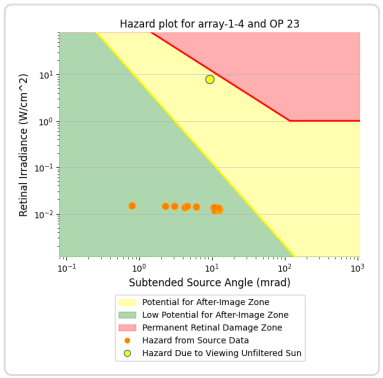
Array 1-4: OP 23

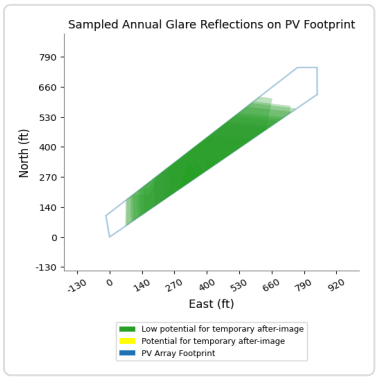
PV array is expected to produce the following glare for this receptor:

- 17 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 24

No glare found

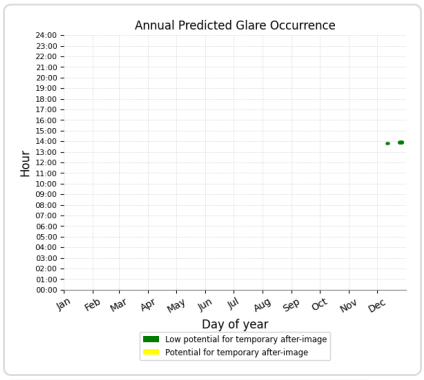
Array 1-4: OP 25

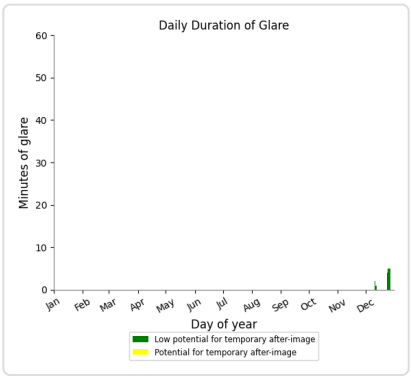
No glare found

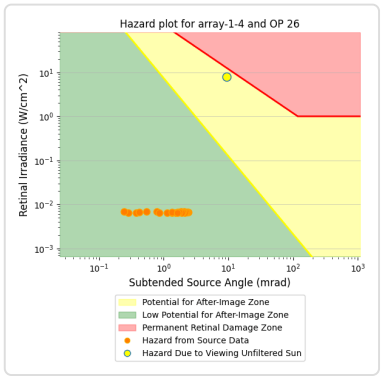
Array 1-4: OP 26

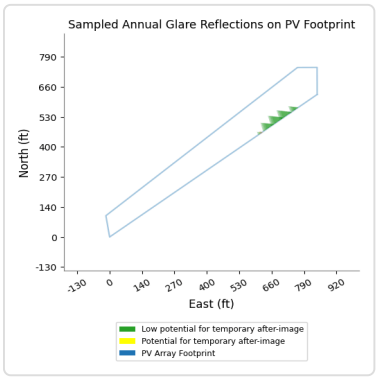
PV array is expected to produce the following glare for this receptor:

- 22 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





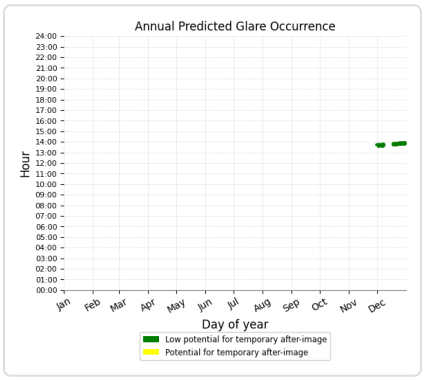


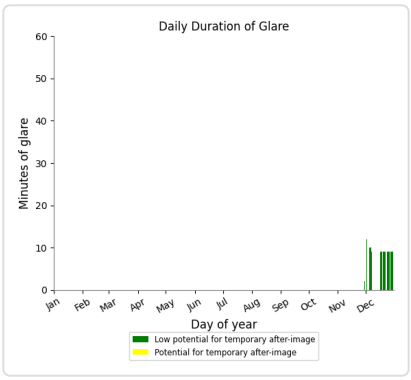


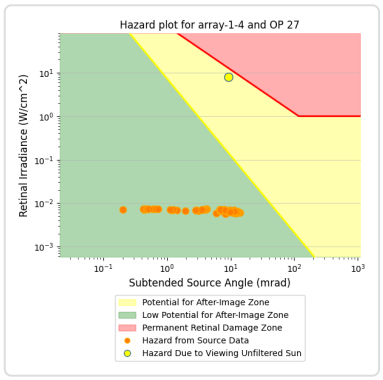
Array 1-4: OP 27

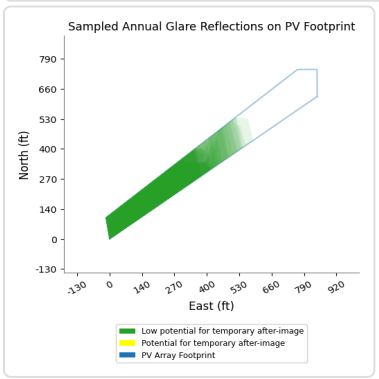
PV array is expected to produce the following glare for this receptor:

- 142 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





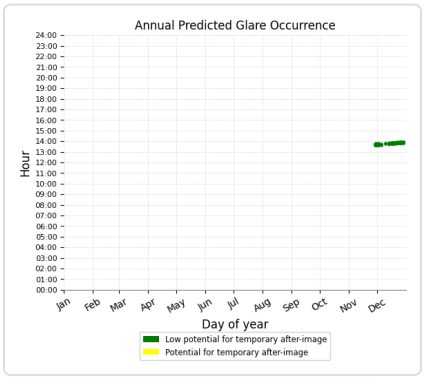


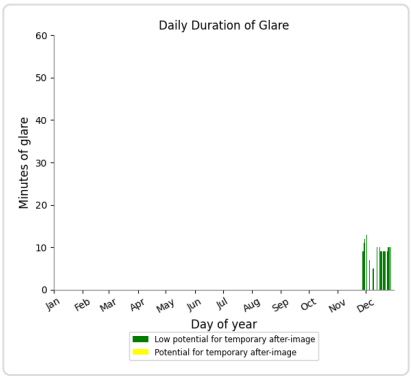


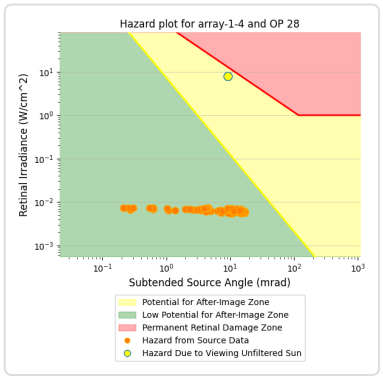
Array 1-4: OP 28

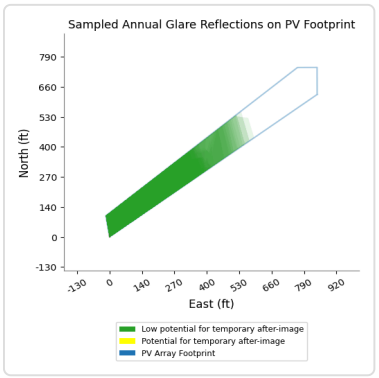
PV array is expected to produce the following glare for this receptor:

- 161 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 29

No glare found

Array 1-4: OP 30

No glare found

Array 1-4: OP 31

No glare found

Array 1-4: OP 32

No glare found

Array 1-4: OP 33

No glare found

Array 1-4: OP 34

No glare found

Array 1-4: OP 35

No glare found

Array 1-4: OP 36

No glare found

Array 1-4: OP 37

No glare found

Array 1-4: OP 38

No glare found

Array 1-4: OP 39

No glare found

Array 1-4: OP 40

No glare found

Array 1-4: OP 41

No glare found

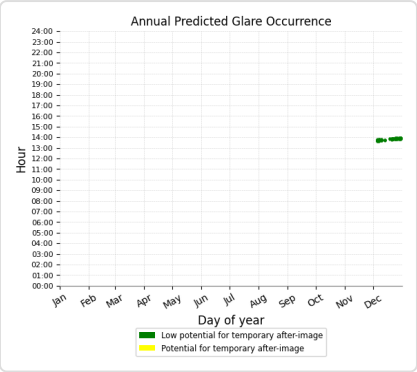
Array 1-4: OP 42

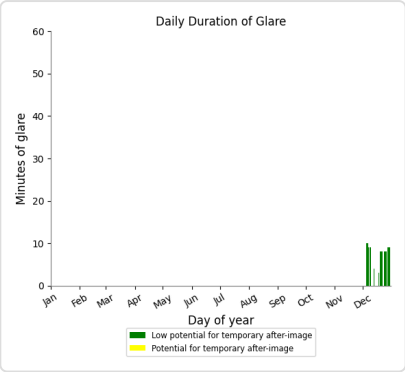
No glare found

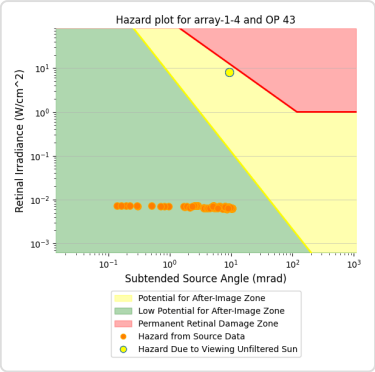
Array 1-4: OP 43

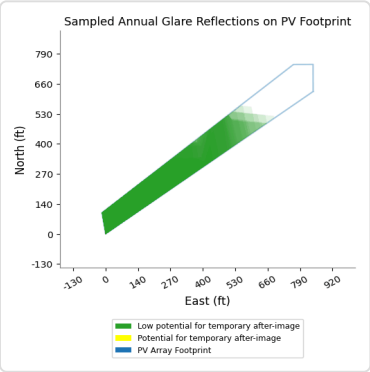
PV array is expected to produce the following glare for this receptor:

- 120 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





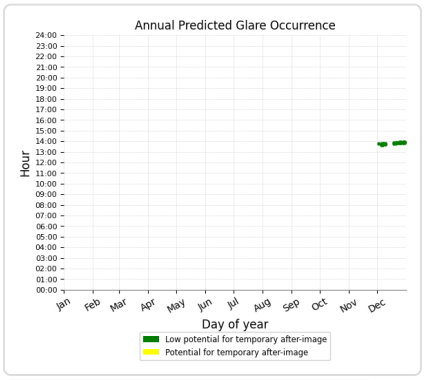


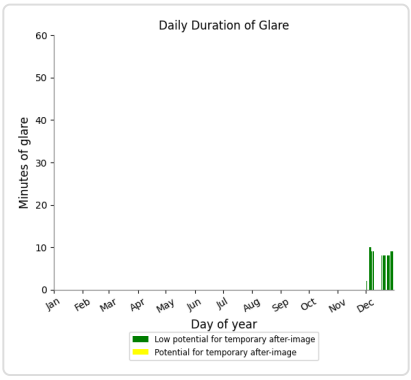


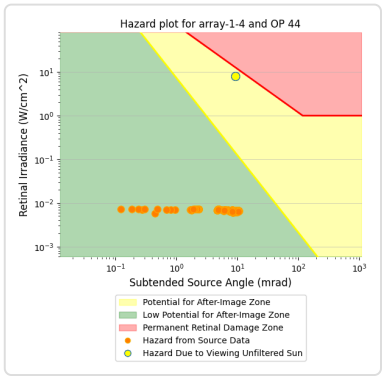
Array 1-4: OP 44

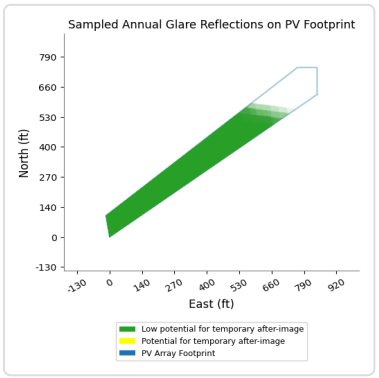
PV array is expected to produce the following glare for this receptor:

- 123 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





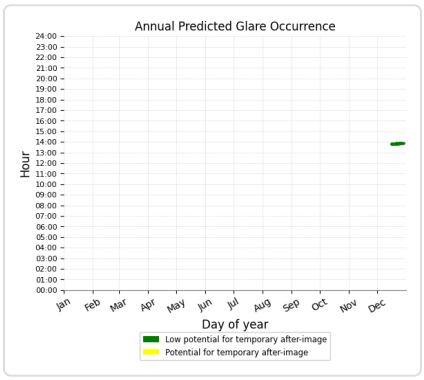


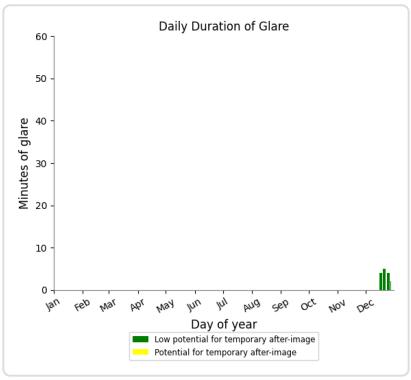


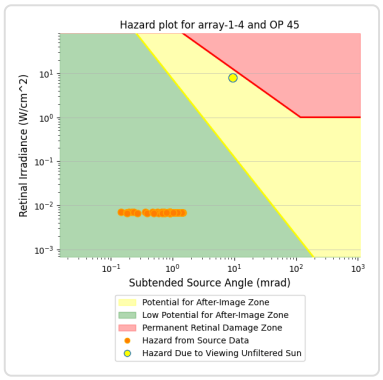
Array 1-4: OP 45

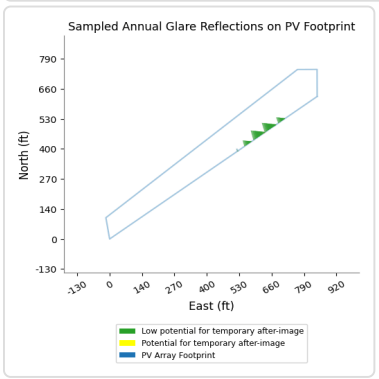
PV array is expected to produce the following glare for this receptor:

- 41 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





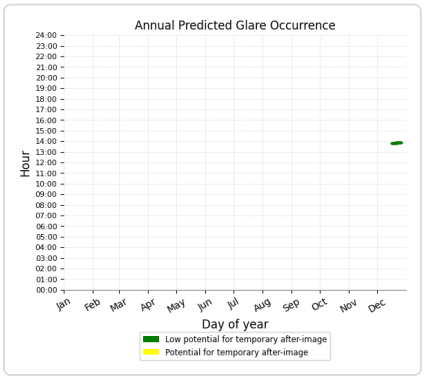


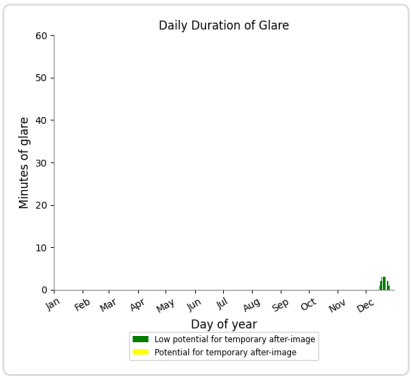


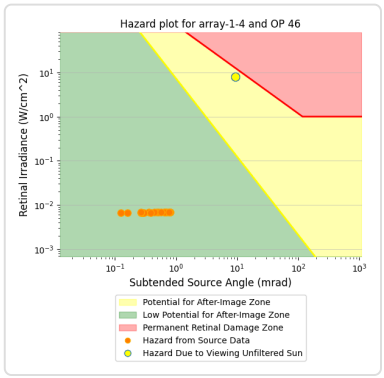
Array 1-4: OP 46

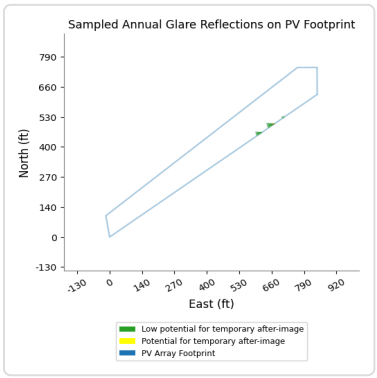
PV array is expected to produce the following glare for this receptor:

- 20 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 47

No glare found

Array 1-4: OP 48

No glare found

Array 1-4: OP 49

No glare found

Array 1-4: OP 50

No glare found

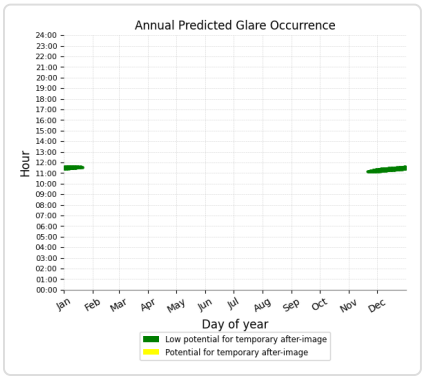
Array 1-4: Ball Rd

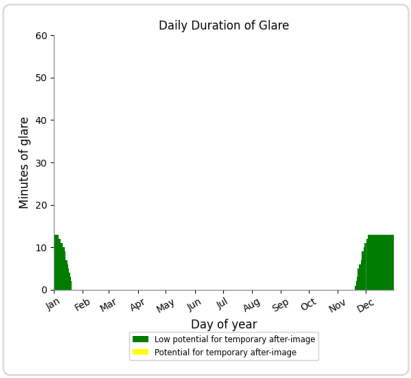
No glare found

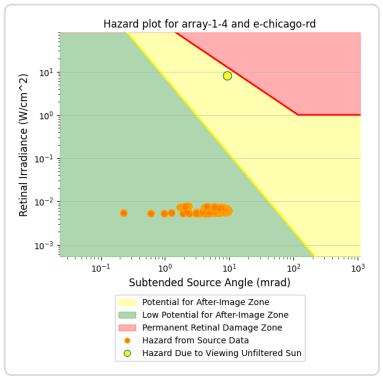
Array 1-4: E Chicago Rd

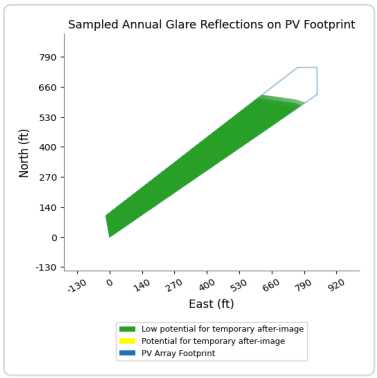
PV array is expected to produce the following glare for this receptor:

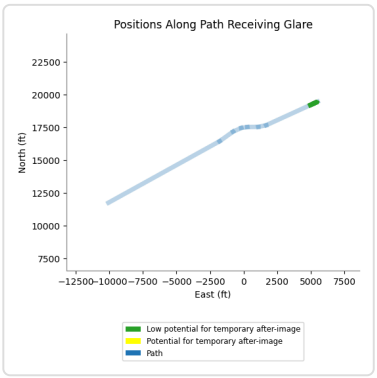
- 655 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











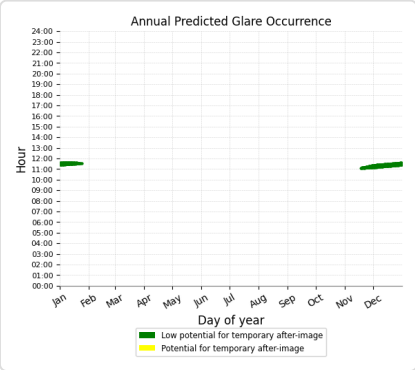
Array 1-4: Half Moon Lake Rd

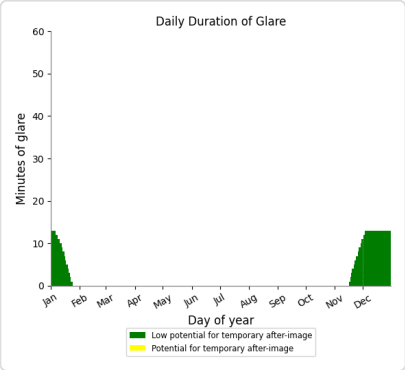
No glare found

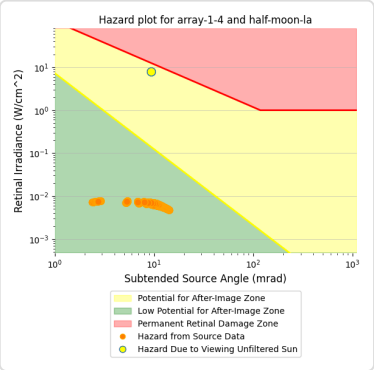
Array 1-4: Half Moon Lake Rd2

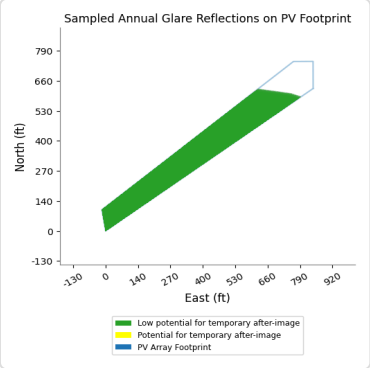
PV array is expected to produce the following glare for this receptor:

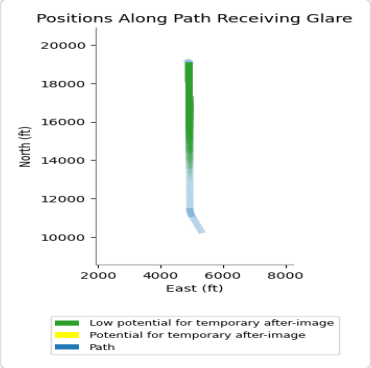
- 688 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Homer Rd

No glare found

Array 1-4: Mauck Rd

No glare found

Array 1-4: Milnes Rd

No glare found

Array 1-4: Montgomery St

No glare found

Array 1-4: Moore Rd E

No glare found

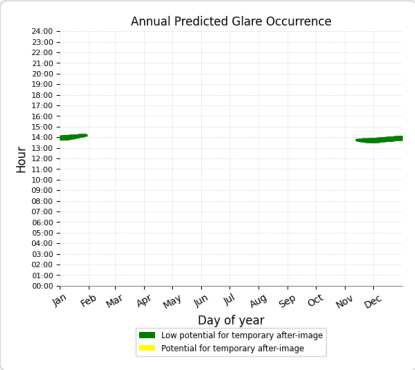
Array 1-4: N Adams Rd

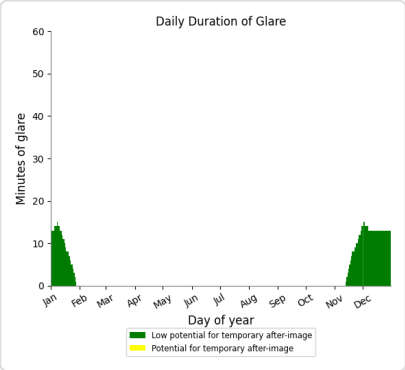
No glare found

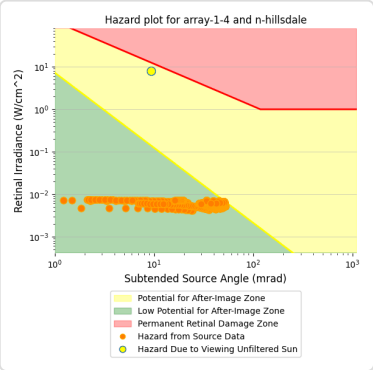
Array 1-4: N Hillsdale Rd

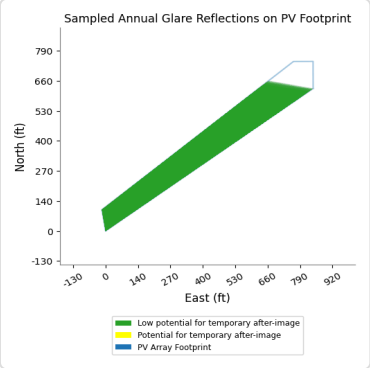
PV array is expected to produce the following glare for this receptor:

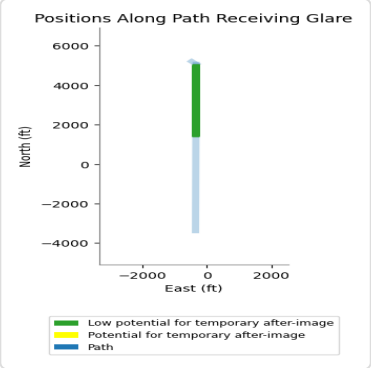
- 827 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Oak St

No glare found

Array 1-4: Parkwood Dr

No glare found

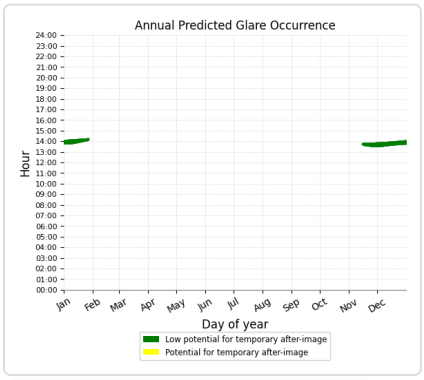
Array 1-4: Salem Dr

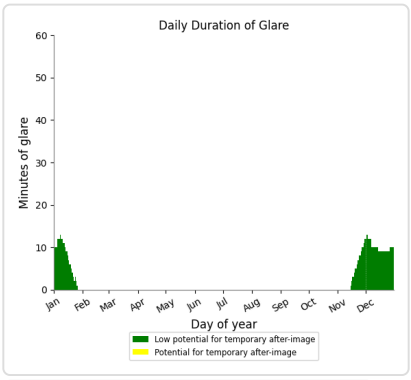
No glare found

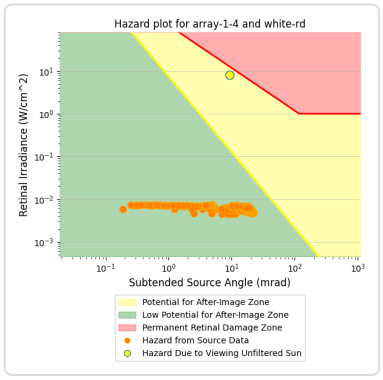
Array 1-4: White Rd

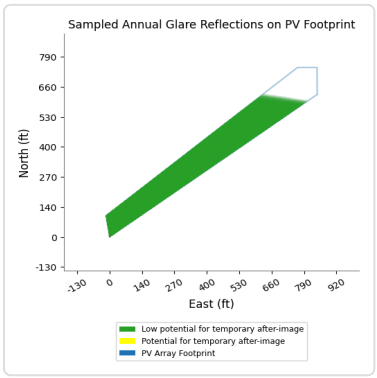
PV array is expected to produce the following glare for this receptor:

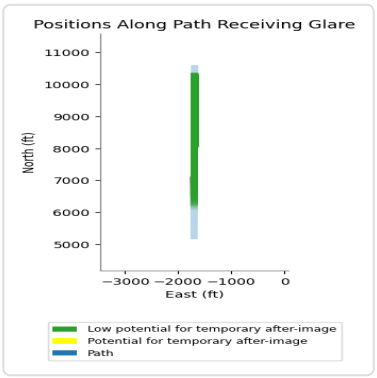
- 626 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 2-1 no glare found

Predicted energy output: 787,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-2 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-3 no glare found

Predicted energy output: 777,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-4 no glare found

Predicted energy output: 758,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-5 no glare found

Predicted energy output: 756,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-6 no glare found

Predicted energy output: 762,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-1 no glare found

Predicted energy output: 779,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-2 no glare found

Predicted energy output: 758,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-3 no glare found

Predicted energy output: 771,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-4 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-5 no glare found

Predicted energy output: 774,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-1 no glare found

Predicted energy output: 767,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-2 no glare found

Predicted energy output: 767,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-3 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-4 no glare found

Predicted energy output: 761,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-5 no glare found

Predicted energy output: 755,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs woARC 2

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162957.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 4-6	SA tracking	SA tracking	0	0	743,900.0
Array 4-7	SA tracking	SA tracking	2,876	0	861,200.0
Array 5-1	SA tracking	SA tracking	0	0	774,600.0
Array 6-1	SA tracking	SA tracking	0	0	766,600.0
Array 6-2	SA tracking	SA tracking	0	0	770,500.0
Array 6-3	SA tracking	SA tracking	0	0	767,200.0
Array 6-4	SA tracking	SA tracking	0	0	776,000.0
Array 7-1	SA tracking	SA tracking	0	0	782,600.0
Array 7-2	SA tracking	SA tracking	0	0	748,500.0
Array 7-3	SA tracking	SA tracking	0	0	759,300.0
Array 8-1	SA tracking	SA tracking	0	0	770,800.0
Array 8-2	SA tracking	SA tracking	2,227	0	809,300.0
Array 8-3	SA tracking	SA tracking	0	0	764,000.0
Array 9-1	SA tracking	SA tracking	0	0	776,000.0
Array 9-2	SA tracking	SA tracking	0	0	781,800.0
Array 9-3	SA tracking	SA tracking	0	0	770,600.0
Array 9-4	SA tracking	SA tracking	0	0	769,400.0
Array 9-5	SA tracking	SA tracking	0	0	765,500.0
Array 9-6	SA tracking	SA tracking	0	0	771,300.0
Array 9-7	SA tracking	SA tracking	0	0	717,000.0

Component Data

PV Array(s)

Total PV footprint area: 777.2 acres

Name: Array 4-6
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.965779	-84.604925	1106.36	6.00	1112.36
3	41.965777	-84.605528	1100.20	6.00	1106.20
4	41.966039	-84.605619	1106.68	6.00	1112.68
5	41.966959	-84.605566	1123.04	6.00	1129.04
6	41.967498	-84.605513	1125.37	6.00	1131.37
7	41.967691	-84.605473	1126.22	6.00	1132.22
8	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-7
Footprint area: 2.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965596	-84.603055	1109.79	6.00	1115.79
2	41.965525	-84.604431	1112.80	6.00	1118.80
3	41.965523	-84.604869	1103.46	6.00	1109.46
4	41.965779	-84.604925	1106.36	6.00	1112.36
5	41.966591	-84.603059	1110.78	6.00	1116.78
6	41.965596	-84.603055	1109.79	6.00	1115.79

Name: Array 5-1
Footprint area: 31.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

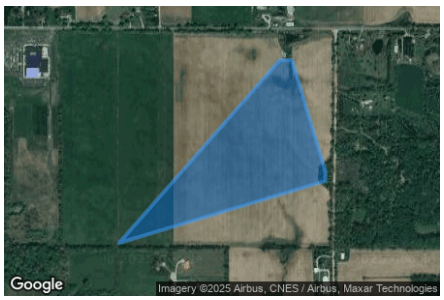
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.970950	-84.646327	1153.33	6.00	1159.33
2	41.970992	-84.648394	1137.46	6.00	1143.46
3	41.977712	-84.648408	1144.44	6.00	1150.44
4	41.977717	-84.646333	1129.66	6.00	1135.66
5	41.970950	-84.646327	1153.33	6.00	1159.33

Name: Array 6-1
Footprint area: 49.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973067	-84.637072	1150.02	6.00	1156.02
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977059	-84.639088	1147.44	6.00	1153.44
4	41.977056	-84.638550	1146.14	6.00	1152.14
5	41.973378	-84.637073	1151.24	6.00	1157.24
6	41.973067	-84.637072	1150.02	6.00	1156.02



Name: Array 6-2
Footprint area: 59.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977059	-84.639088	1147.44	6.00	1153.44
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977718	-84.646223	1129.69	6.00	1135.69
4	41.977652	-84.639351	1146.56	6.00	1152.56
5	41.977059	-84.639088	1147.44	6.00	1153.44

Name: Array 6-3
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973378	-84.637073	1151.24	6.00	1157.24
2	41.977056	-84.638550	1146.14	6.00	1152.14
3	41.977330	-84.638546	1147.63	6.00	1153.63
4	41.977331	-84.636913	1152.08	6.00	1158.08
5	41.973714	-84.636963	1152.39	6.00	1158.39
6	41.973378	-84.637073	1151.24	6.00	1157.24

Name: Array 6-4
Footprint area: 21.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.971018	-84.646217	1153.27	6.00	1159.27
2	41.973067	-84.637072	1150.02	6.00	1156.02
3	41.972974	-84.636975	1150.16	6.00	1156.16
4	41.971018	-84.637003	1168.83	6.00	1174.83
5	41.971018	-84.646217	1153.27	6.00	1159.27

Name: Array 7-1
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.980348	-84.649056	1112.34	6.00	1118.34
2	41.982619	-84.646353	1130.58	6.00	1136.58
3	41.979151	-84.646349	1131.69	6.00	1137.69
4	41.979156	-84.649054	1136.14	6.00	1142.14
5	41.980348	-84.649056	1112.34	6.00	1118.34

Name: Array 7-2
Footprint area: 4.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981523	-84.650101	1140.37	6.00	1146.37
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.980352	-84.651110	1106.46	6.00	1112.46
4	41.981525	-84.651116	1137.14	6.00	1143.14
5	41.981523	-84.650101	1140.37	6.00	1146.37

Name: Array 7-3
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982619	-84.646353	1130.58	6.00	1136.58
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.981523	-84.650101	1140.37	6.00	1146.37
4	41.982626	-84.649696	1142.71	6.00	1148.71
5	41.982619	-84.646353	1130.58	6.00	1136.58

Name: Array 8-1
Footprint area: 31.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985835	-84.646360	1146.10	6.00	1152.10
2	41.985026	-84.647658	1141.70	6.00	1147.70
3	41.985022	-84.648787	1134.51	6.00	1140.51
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.989860	-84.646384	1129.05	6.00	1135.05
6	41.985835	-84.646360	1146.10	6.00	1152.10

Name: Array 8-2
Footprint area: 7.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985022	-84.648787	1134.51	6.00	1140.51
2	41.984918	-84.648940	1143.07	6.00	1149.07
3	41.984922	-84.650800	1138.52	6.00	1144.52
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.985022	-84.648787	1134.51	6.00	1140.51

Name: Array 8-3
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

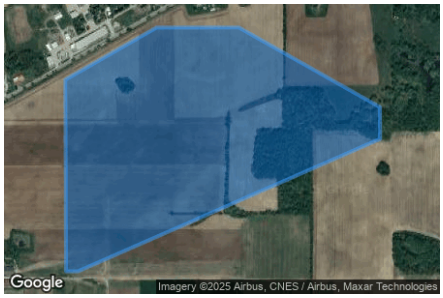
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985026	-84.647658	1141.70	6.00	1147.70
2	41.985835	-84.646360	1146.10	6.00	1152.10
3	41.983607	-84.646355	1130.68	6.00	1136.68
4	41.983611	-84.647649	1134.90	6.00	1140.90
5	41.985026	-84.647658	1141.70	6.00	1147.70

Name: Array 9-1
Footprint area: 161.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991653	-84.638587	1125.38	6.00	1131.38
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.987979	-84.632333	1145.50	6.00	1151.50
4	41.983612	-84.645709	1135.37	6.00	1141.37
5	41.983610	-84.646244	1131.44	6.00	1137.44
6	41.989929	-84.646273	1128.42	6.00	1134.42
7	41.991657	-84.642224	1124.94	6.00	1130.94
8	41.991653	-84.638587	1125.38	6.00	1131.38



Name: Array 9-2
Footprint area: 5.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982618	-84.645705	1130.67	6.00	1136.67
2	41.979420	-84.645230	1133.67	6.00	1139.67
3	41.979307	-84.645231	1133.82	6.00	1139.82
4	41.979305	-84.646239	1131.83	6.00	1137.83
5	41.980410	-84.646235	1124.28	6.00	1130.28
6	41.982619	-84.646243	1130.53	6.00	1136.53
7	41.982618	-84.645705	1130.67	6.00	1136.67

Name: Array 9-3
Footprint area: 49.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.984842	-84.622290	1136.16	6.00	1142.16
2	41.979488	-84.623949	1149.93	6.00	1155.93
3	41.979495	-84.627147	1148.17	6.00	1154.17
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.984842	-84.622290	1136.16	6.00	1142.16

Name: Array 9-4
Footprint area: 11.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979488	-84.623949	1149.93	6.00	1155.93
2	41.984842	-84.622290	1136.16	6.00	1142.16
3	41.979229	-84.622244	1147.67	6.00	1153.67
4	41.979232	-84.623894	1149.49	6.00	1155.49
5	41.979488	-84.623949	1149.93	6.00	1155.93

Name: Array 9-5
Footprint area: 165.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

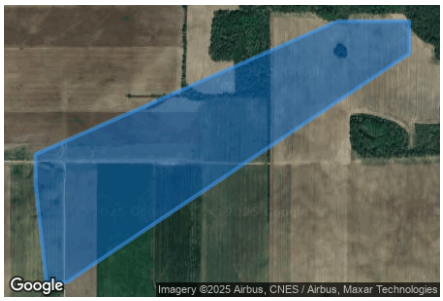
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979420	-84.644327	1136.35	6.00	1142.35
2	41.986919	-84.629153	1149.61	6.00	1155.61
3	41.986914	-84.627157	1132.40	6.00	1138.40
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.979495	-84.627147	1148.17	6.00	1154.17
6	41.979240	-84.627200	1146.73	6.00	1152.73
7	41.979300	-84.644328	1136.42	6.00	1142.42
8	41.979420	-84.644327	1136.35	6.00	1142.35

Name: Array 9-6
Footprint area: 124.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983612	-84.645709	1135.37	6.00	1141.37
2	41.987979	-84.632333	1145.50	6.00	1151.50
3	41.987982	-84.629157	1120.58	6.00	1126.58
4	41.986919	-84.629153	1149.61	6.00	1155.61
5	41.979420	-84.644327	1136.35	6.00	1142.35
6	41.979420	-84.645230	1133.67	6.00	1139.67
7	41.982618	-84.645705	1130.67	6.00	1136.67
8	41.983612	-84.645709	1135.37	6.00	1141.37



Name: Array 9-7
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.992919	-84.635798	1130.18	6.00	1136.18
2	41.992991	-84.639344	1119.75	6.00	1125.75
3	41.993972	-84.637106	1143.33	6.00	1149.33
4	41.994320	-84.636300	1123.84	6.00	1129.84
5	41.994325	-84.635215	1125.34	6.00	1131.34
6	41.993183	-84.635215	1131.63	6.00	1137.63
7	41.992919	-84.635798	1130.18	6.00	1136.18

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

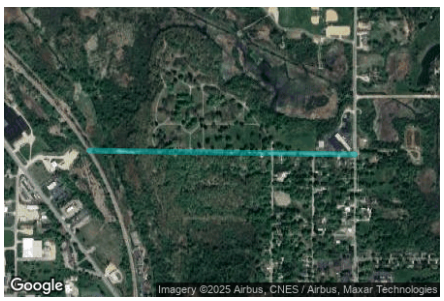
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

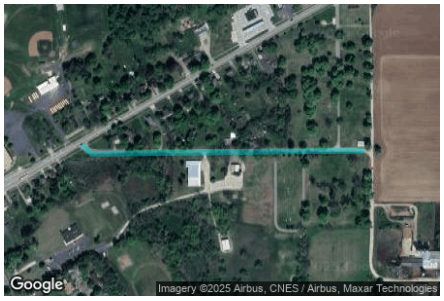
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

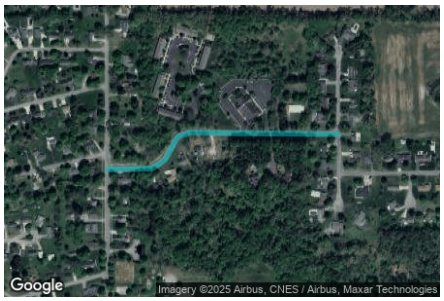
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988866	-84.650757	1130.76	6.00	1136.76
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Name: Obstruction 3
Upper edge height: 32.8 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.987834	-84.651110	1131.65
2	41.988285	-84.651053	1126.37
3	41.988506	-84.650546	1127.57

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 4-6	SA tracking	SA tracking	0	0	743,900.0	-
Array 4-7	SA tracking	SA tracking	2,876	0	861,200.0	-
Array 5-1	SA tracking	SA tracking	0	0	774,600.0	-
Array 6-1	SA tracking	SA tracking	0	0	766,600.0	-
Array 6-2	SA tracking	SA tracking	0	0	770,500.0	-
Array 6-3	SA tracking	SA tracking	0	0	767,200.0	-
Array 6-4	SA tracking	SA tracking	0	0	776,000.0	-
Array 7-1	SA tracking	SA tracking	0	0	782,600.0	-
Array 7-2	SA tracking	SA tracking	0	0	748,500.0	-
Array 7-3	SA tracking	SA tracking	0	0	759,300.0	-
Array 8-1	SA tracking	SA tracking	0	0	770,800.0	-
Array 8-2	SA tracking	SA tracking	2,227	0	809,300.0	-
Array 8-3	SA tracking	SA tracking	0	0	764,000.0	-
Array 9-1	SA tracking	SA tracking	0	0	776,000.0	-
Array 9-2	SA tracking	SA tracking	0	0	781,800.0	-
Array 9-3	SA tracking	SA tracking	0	0	770,600.0	-
Array 9-4	SA tracking	SA tracking	0	0	769,400.0	-
Array 9-5	SA tracking	SA tracking	0	0	765,500.0	-
Array 9-6	SA tracking	SA tracking	0	0	771,300.0	-
Array 9-7	SA tracking	SA tracking	0	0	717,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-4-7 (green)	699	497	5	0	0	0	0	0	0	315	678	682
array-4-7 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-8-2 (green)	681	77	0	0	0	0	0	0	0	4	476	989
array-8-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 4-6 no glare found

Predicted energy output: 743,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-7 low potential for temporary after-image

Predicted energy output: 861,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	2876	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 4-7: OP 1

No glare found

Array 4-7: OP 2

No glare found

Array 4-7: OP 3
No glare found

Array 4-7: OP 4
No glare found

Array 4-7: OP 5
No glare found

Array 4-7: OP 6
No glare found

Array 4-7: OP 7
No glare found

Array 4-7: OP 8
No glare found

Array 4-7: OP 9
No glare found

Array 4-7: OP 10
No glare found

Array 4-7: OP 11
No glare found

Array 4-7: OP 12
No glare found

Array 4-7: OP 13
No glare found

Array 4-7: OP 14
No glare found

Array 4-7: OP 15
No glare found

Array 4-7: OP 16
No glare found

Array 4-7: OP 17
No glare found

Array 4-7: OP 18
No glare found

Array 4-7: OP 19
No glare found

Array 4-7: OP 20
No glare found

Array 4-7: OP 21
No glare found

Array 4-7: OP 22
No glare found

Array 4-7: OP 23
No glare found

Array 4-7: OP 24
No glare found

Array 4-7: OP 25
No glare found

Array 4-7: OP 26
No glare found

Array 4-7: OP 27
No glare found

Array 4-7: OP 28
No glare found

Array 4-7: OP 29
No glare found

Array 4-7: OP 30
No glare found

Array 4-7: OP 31
No glare found

Array 4-7: OP 32
No glare found

Array 4-7: OP 33
No glare found

Array 4-7: OP 34
No glare found

Array 4-7: OP 35
No glare found

Array 4-7: OP 36
No glare found

Array 4-7: OP 37
No glare found

Array 4-7: OP 38
No glare found

Array 4-7: OP 39
No glare found

Array 4-7: OP 40
No glare found

Array 4-7: OP 41
No glare found

Array 4-7: OP 42
No glare found

Array 4-7: OP 43
No glare found

Array 4-7: OP 44
No glare found

Array 4-7: OP 45
No glare found

Array 4-7: OP 46
No glare found

Array 4-7: OP 47
No glare found

Array 4-7: OP 48

No glare found

Array 4-7: OP 49

No glare found

Array 4-7: OP 50

No glare found

Array 4-7: Ball Rd

No glare found

Array 4-7: E Chicago Rd

No glare found

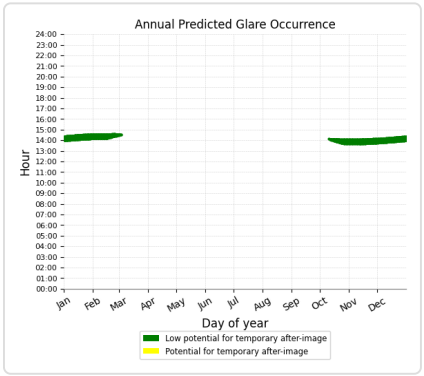
Array 4-7: Half Moon Lake Rd

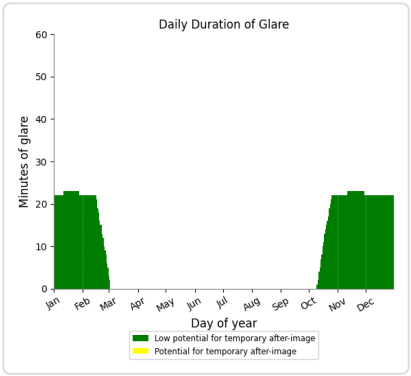
No glare found

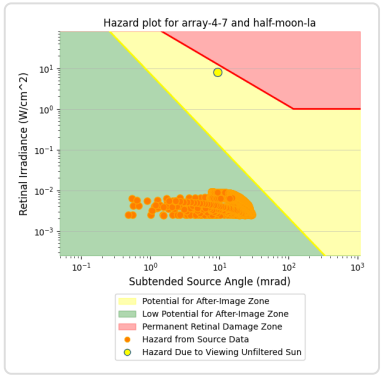
Array 4-7: Half Moon Lake Rd2

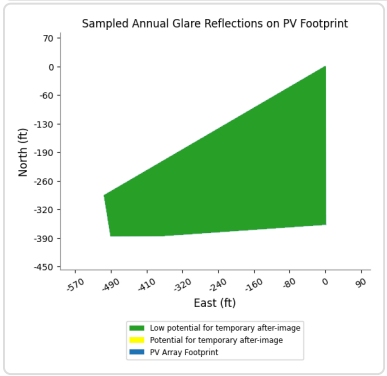
PV array is expected to produce the following glare for this receptor:

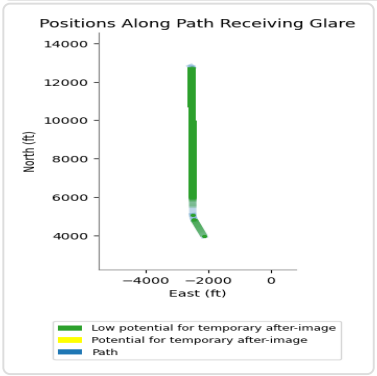
- 2,876 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 4-7: Homer Rd

No glare found

Array 4-7: Mauck Rd
No glare found

Array 4-7: Milnes Rd
No glare found

Array 4-7: Montgomery St
No glare found

Array 4-7: Moore Rd E
No glare found

Array 4-7: N Adams Rd
No glare found

Array 4-7: N Hillsdale Rd
No glare found

Array 4-7: Oak St
No glare found

Array 4-7: Parkwood Dr
No glare found

Array 4-7: Salem Dr
No glare found

Array 4-7: White Rd
No glare found

Array 5-1 no glare found

Predicted energy output: 774,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-1 no glare found

Predicted energy output: 766,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-2 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-3 no glare found

Predicted energy output: 767,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-4 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-1 no glare found

Predicted energy output: 782,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-2 no glare found

Predicted energy output: 748,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-3 no glare found

Predicted energy output: 759,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-1 no glare found

Predicted energy output: 770,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-2 low potential for temporary after-image

Predicted energy output: 809,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	2227	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 8-2: OP 1

No glare found

Array 8-2: OP 2

No glare found

Array 8-2: OP 3
No glare found

Array 8-2: OP 4
No glare found

Array 8-2: OP 5
No glare found

Array 8-2: OP 6
No glare found

Array 8-2: OP 7
No glare found

Array 8-2: OP 8
No glare found

Array 8-2: OP 9
No glare found

Array 8-2: OP 10
No glare found

Array 8-2: OP 11
No glare found

Array 8-2: OP 12
No glare found

Array 8-2: OP 13
No glare found

Array 8-2: OP 14
No glare found

Array 8-2: OP 15
No glare found

Array 8-2: OP 16
No glare found

Array 8-2: OP 17
No glare found

Array 8-2: OP 18
No glare found

Array 8-2: OP 19
No glare found

Array 8-2: OP 20
No glare found

Array 8-2: OP 21
No glare found

Array 8-2: OP 22
No glare found

Array 8-2: OP 23
No glare found

Array 8-2: OP 24
No glare found

Array 8-2: OP 25
No glare found

Array 8-2: OP 26
No glare found

Array 8-2: OP 27
No glare found

Array 8-2: OP 28
No glare found

Array 8-2: OP 29
No glare found

Array 8-2: OP 30
No glare found

Array 8-2: OP 31
No glare found

Array 8-2: OP 32
No glare found

Array 8-2: OP 33
No glare found

Array 8-2: OP 34
No glare found

Array 8-2: OP 35
No glare found

Array 8-2: OP 36
No glare found

Array 8-2: OP 37
No glare found

Array 8-2: OP 38
No glare found

Array 8-2: OP 39
No glare found

Array 8-2: OP 40
No glare found

Array 8-2: OP 41
No glare found

Array 8-2: OP 42
No glare found

Array 8-2: OP 43
No glare found

Array 8-2: OP 44
No glare found

Array 8-2: OP 45
No glare found

Array 8-2: OP 46
No glare found

Array 8-2: OP 47
No glare found

Array 8-2: OP 48

No glare found

Array 8-2: OP 49

No glare found

Array 8-2: OP 50

No glare found

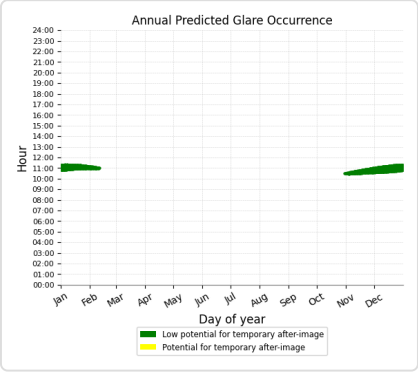
Array 8-2: Ball Rd

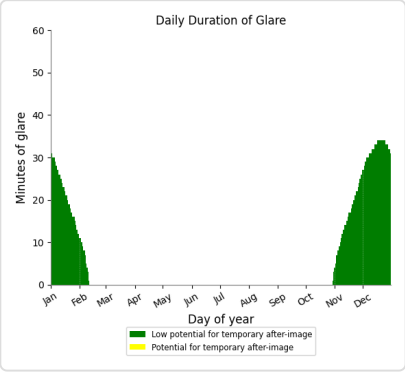
No glare found

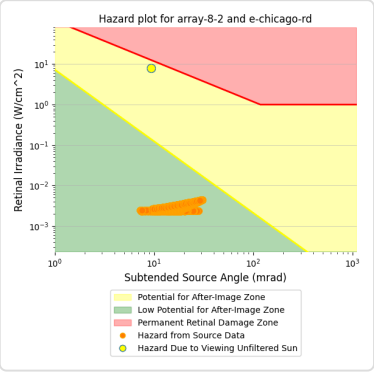
Array 8-2: E Chicago Rd

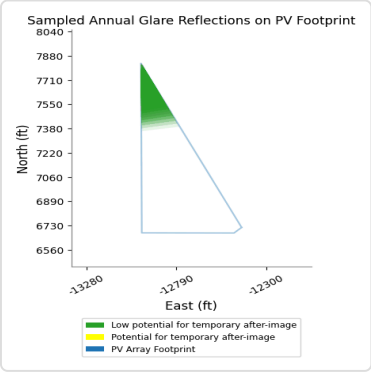
PV array is expected to produce the following glare for this receptor:

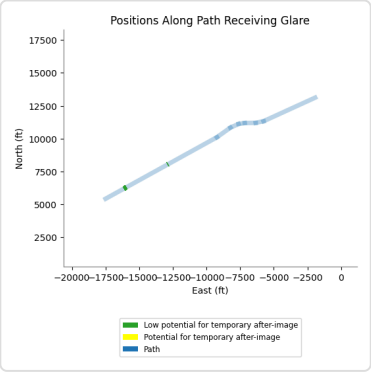
- 2,227 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 8-2: Half Moon Lake Rd

No glare found

Array 8-2: Half Moon Lake Rd2

No glare found

Array 8-2: Homer Rd

No glare found

Array 8-2: Mauck Rd
No glare found

Array 8-2: Milnes Rd
No glare found

Array 8-2: Montgomery St
No glare found

Array 8-2: Moore Rd E
No glare found

Array 8-2: N Adams Rd
No glare found

Array 8-2: N Hillsdale Rd
No glare found

Array 8-2: Oak St
No glare found

Array 8-2: Parkwood Dr
No glare found

Array 8-2: Salem Dr
No glare found

Array 8-2: White Rd
No glare found

Array 8-3 no glare found

Predicted energy output: 764,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-1 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-2 no glare found

Predicted energy output: 781,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-3 no glare found

Predicted energy output: 770,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-4 no glare found

Predicted energy output: 769,400.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-5 no glare found

Predicted energy output: 765,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-6 no glare found

Predicted energy output: 771,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-7 no glare found

Predicted energy output: 717,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

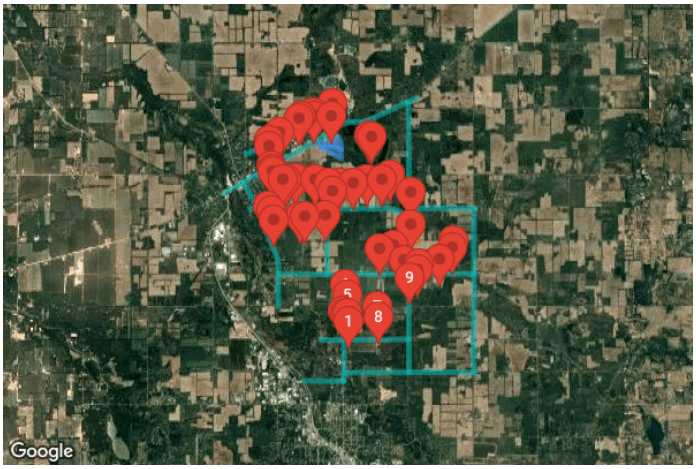
Heartwood Solar II

Ranger Power Heartwood Solar II 6ft OPs woARC 3

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162940.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 9-10	SA tracking	SA tracking	0	0	781,300.0
Array 9-8	SA tracking	SA tracking	0	0	773,900.0
Array 9-9	SA tracking	SA tracking	0	0	725,300.0

Component Data

PV Array(s)

Total PV footprint area: 38.1 acres

Name: Array 9-10
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.991823	-84.634487	1126.53	6.00	1132.53
3	41.992367	-84.634487	1126.43	6.00	1132.43
4	41.993176	-84.634443	1128.92	6.00	1134.92
5	41.993986	-84.634138	1122.44	6.00	1128.44
6	41.993989	-84.633097	1118.75	6.00	1124.75
7	41.993177	-84.632580	1115.26	6.00	1121.26
8	41.992364	-84.632350	1127.60	6.00	1133.60
9	41.991192	-84.632345	1126.47	6.00	1132.47

Name: Array 9-8
Footprint area: 8.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991816	-84.635788	1138.98	6.00	1144.98
2	41.991653	-84.638587	1125.38	6.00	1131.38
3	41.992991	-84.639344	1119.75	6.00	1125.75
4	41.992919	-84.635798	1130.18	6.00	1136.18
5	41.991816	-84.635788	1138.98	6.00	1144.98

Name: Array 9-9
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.991653	-84.638587	1125.38	6.00	1131.38
4	41.991816	-84.635788	1138.98	6.00	1144.98
5	41.991823	-84.634487	1126.53	6.00	1132.53
6	41.991192	-84.632345	1126.47	6.00	1132.47

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	6.00	1106.48
2	41.963547	-84.636649	1162.54	6.00	1168.54
3	41.963509	-84.628799	1141.37	6.00	1147.37
4	41.963638	-84.612234	1123.12	6.00	1129.12
5	41.963690	-84.598133	1105.07	6.00	1111.07
6	41.963634	-84.592854	1099.25	6.00	1105.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	6.00	1075.35
2	41.994315	-84.636985	1140.66	6.00	1146.66
3	41.996324	-84.633294	1120.17	6.00	1126.17
4	41.997090	-84.631062	1105.77	6.00	1111.77
5	41.997281	-84.629389	1107.09	6.00	1113.09
6	41.997313	-84.626385	1106.37	6.00	1112.37
7	41.997664	-84.624228	1107.09	6.00	1113.09
8	42.002575	-84.610152	1166.43	6.00	1172.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	6.00	1110.30
2	41.963621	-84.612227	1123.05	6.00	1129.05
3	41.949154	-84.612275	1088.92	6.00	1094.92
4	41.943822	-84.612232	1158.65	6.00	1164.65
5	41.941914	-84.612307	1164.30	6.00	1170.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	6.00	1189.33
2	42.001568	-84.612351	1185.12	6.00	1191.12
3	41.980480	-84.612234	1108.23	6.00	1114.23
4	41.979842	-84.612084	1103.31	6.00	1109.31
5	41.977513	-84.610925	1101.44	6.00	1107.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	6.00	1078.30
2	41.978046	-84.657165	1096.99	6.00	1102.99
3	41.973365	-84.654729	1123.00	6.00	1129.00
4	41.966801	-84.651342	1108.11	6.00	1114.11
5	41.966219	-84.651213	1100.51	6.00	1106.51
6	41.956504	-84.651202	1103.95	6.00	1109.95

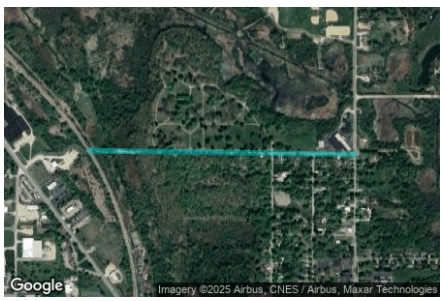
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	6.00	1074.18
2	41.941871	-84.612269	1165.52	6.00	1171.52
3	41.941895	-84.592948	1161.38	6.00	1167.38
4	41.941815	-84.592819	1160.94	6.00	1166.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	6.00	1139.96
2	41.963658	-84.592858	1099.32	6.00	1105.32
3	41.941830	-84.592938	1161.48	6.00	1167.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	6.00	1084.99
2	41.939858	-84.631694	1091.97	6.00	1097.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	6.00	1087.60
2	41.948976	-84.638196	1082.00	6.00	1088.00
3	41.948990	-84.631631	1106.59	6.00	1112.59
4	41.949161	-84.612303	1088.61	6.00	1094.61

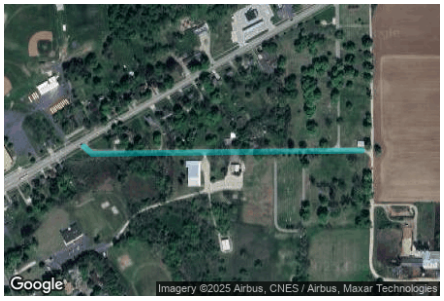
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	6.00	1106.96
2	41.978075	-84.633515	1151.34	6.00	1157.34
3	41.978035	-84.625115	1145.73	6.00	1151.73
4	41.978075	-84.617800	1144.56	6.00	1150.56
5	41.977979	-84.616909	1140.08	6.00	1146.08
6	41.977062	-84.614066	1125.12	6.00	1131.12
7	41.977054	-84.612498	1106.11	6.00	1112.11
8	41.978067	-84.609279	1112.96	6.00	1118.96
9	41.978178	-84.607219	1117.24	6.00	1123.24
10	41.978221	-84.592870	1134.15	6.00	1140.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

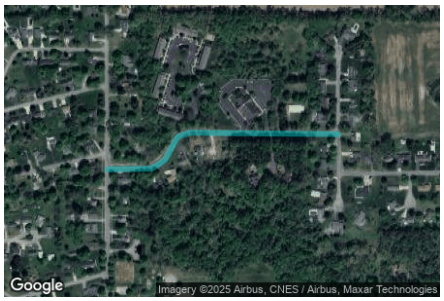
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	6.00	1185.97
2	41.963127	-84.631610	1170.34	6.00	1176.34
3	41.939897	-84.631685	1091.53	6.00	1097.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	6.00	1083.74
2	41.985470	-84.657351	1077.15	6.00	1083.15
3	41.985526	-84.651375	1131.84	6.00	1137.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	6.00	1086.34
2	41.990303	-84.659890	1089.78	6.00	1095.78
3	41.990442	-84.659595	1094.20	6.00	1100.20
4	41.990821	-84.659321	1097.22	6.00	1103.22
5	41.990889	-84.659047	1098.76	6.00	1104.76
6	41.990865	-84.655770	1125.49	6.00	1131.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	6.00	1136.97
2	41.990227	-84.651174	1135.59	6.00	1141.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	6.00	1159.08
2	41.963556	-84.636656	1162.49	6.00	1168.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	6.00	1112.49
OP 2	41.948692	-84.630530	1112.18	6.00	1118.18
OP 3	41.948791	-84.631259	1111.01	6.00	1117.01
OP 4	41.949327	-84.631930	1108.23	6.00	1114.23
OP 5	41.952969	-84.630575	1080.23	6.00	1086.23
OP 6	41.955118	-84.631223	1094.13	6.00	1100.13
OP 7	41.950223	-84.621623	1094.11	6.00	1100.11
OP 8	41.948033	-84.621309	1096.11	6.00	1102.11
OP 9	41.956630	-84.611833	1131.84	6.00	1137.84
OP 10	41.958521	-84.609408	1139.67	6.00	1145.67
OP 11	41.959721	-84.609154	1145.91	6.00	1151.91
OP 12	41.960475	-84.613453	1155.38	6.00	1161.38
OP 13	41.962992	-84.620671	1154.45	6.00	1160.45
OP 14	41.963825	-84.616658	1144.90	6.00	1150.90
OP 15	41.960824	-84.603015	1107.26	6.00	1113.26
OP 16	41.964743	-84.598919	1106.70	6.00	1112.70
OP 17	41.963273	-84.599198	1111.59	6.00	1117.59
OP 18	41.968341	-84.611480	1138.28	6.00	1144.28
OP 19	41.975446	-84.611554	1147.05	6.00	1153.05
OP 20	41.979458	-84.617637	1149.20	6.00	1155.20
OP 21	41.978405	-84.620030	1152.74	6.00	1158.74
OP 22	41.978411	-84.624576	1153.10	6.00	1159.10
OP 23	41.977554	-84.628680	1161.67	6.00	1167.67
OP 24	41.977726	-84.632738	1157.69	6.00	1163.69
OP 25	41.975740	-84.634830	1164.63	6.00	1170.63
OP 26	41.977683	-84.636096	1160.30	6.00	1166.30
OP 27	41.978405	-84.640023	1148.51	6.00	1154.51
OP 28	41.970367	-84.637061	1181.48	6.00	1187.48
OP 29	41.970276	-84.643231	1172.56	6.00	1178.56
OP 30	41.970284	-84.644416	1159.13	6.00	1165.13
OP 31	41.969466	-84.652339	1115.03	6.00	1121.03
OP 32	41.971380	-84.652994	1107.98	6.00	1113.98
OP 33	41.972557	-84.654024	1127.37	6.00	1133.37
OP 34	41.978541	-84.645843	1138.32	6.00	1144.32
OP 35	41.978489	-84.648638	1139.22	6.00	1145.22
OP 36	41.978417	-84.649646	1148.61	6.00	1154.61
OP 37	41.980276	-84.652738	1120.12	6.00	1126.12
OP 38	41.980607	-84.652727	1109.54	6.00	1115.54
OP 39	41.981544	-84.653253	1109.10	6.00	1115.10
OP 40	41.985669	-84.653750	1112.55	6.00	1118.55
OP 41	41.986981	-84.653787	1111.66	6.00	1117.66
OP 42	41.988866	-84.650757	1130.76	6.00	1136.76
OP 43	41.991990	-84.644762	1122.66	6.00	1128.66
OP 44	41.992301	-84.643995	1122.57	6.00	1128.57
OP 45	41.992449	-84.640519	1127.29	6.00	1133.29
OP 46	41.993234	-84.640701	1123.65	6.00	1129.65
OP 47	41.995116	-84.634843	1129.25	6.00	1135.25
OP 48	41.992312	-84.635190	1140.23	6.00	1146.23
OP 49	41.988047	-84.623750	1154.36	6.00	1160.36
OP 50	41.987879	-84.623149	1147.99	6.00	1153.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 9-10	SA tracking	SA tracking	0	0	781,300.0	-
Array 9-8	SA tracking	SA tracking	0	0	773,900.0	-
Array 9-9	SA tracking	SA tracking	0	0	725,300.0	-

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 9-10 no glare found

Predicted energy output: 781,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-8 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-9 no glare found

Predicted energy output: 725,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs wARC 1

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162910.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 1-1	SA tracking	SA tracking	0	0	770,500.0
Array 1-2	SA tracking	SA tracking	604	0	793,300.0
Array 1-3	SA tracking	SA tracking	1,289	0	825,000.0
Array 1-4	SA tracking	SA tracking	4,410	0	833,300.0
Array 2-1	SA tracking	SA tracking	0	0	787,200.0
Array 2-2	SA tracking	SA tracking	0	0	773,900.0
Array 2-3	SA tracking	SA tracking	0	0	777,600.0
Array 2-4	SA tracking	SA tracking	0	0	758,800.0
Array 2-5	SA tracking	SA tracking	0	0	756,800.0
Array 2-6	SA tracking	SA tracking	0	0	762,100.0
Array 3-1	SA tracking	SA tracking	0	0	779,900.0
Array 3-2	SA tracking	SA tracking	0	0	758,000.0
Array 3-3	SA tracking	SA tracking	0	0	771,000.0
Array 3-4	SA tracking	SA tracking	0	0	782,700.0
Array 3-5	SA tracking	SA tracking	0	0	774,200.0
Array 4-1	SA tracking	SA tracking	0	0	767,700.0
Array 4-2	SA tracking	SA tracking	0	0	767,900.0
Array 4-3	SA tracking	SA tracking	0	0	782,700.0
Array 4-4	SA tracking	SA tracking	0	0	761,100.0
Array 4-5	SA tracking	SA tracking	0	0	755,000.0

Component Data

PV Array(s)

Total PV footprint area: 207.0 acres

Name: Array 1-1
Footprint area: 24.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949205	-84.630406	1109.74	6.00	1115.74
2	41.950912	-84.627317	1106.32	6.00	1112.32
3	41.950940	-84.622436	1085.16	6.00	1091.16
4	41.949251	-84.622429	1097.13	6.00	1103.13
5	41.949205	-84.630406	1109.74	6.00	1115.74

Name: Array 1-2
Footprint area: 7.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

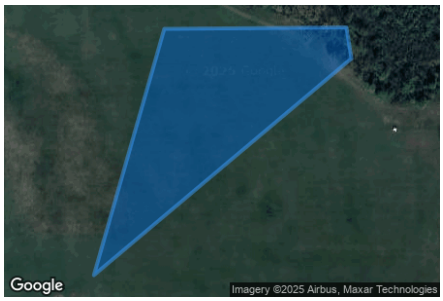
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951479	-84.629682	1106.34	6.00	1112.34
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.949456	-84.631168	1109.41	6.00	1115.41
4	41.952283	-84.631180	1094.93	6.00	1100.93
5	41.952292	-84.629685	1079.44	6.00	1085.44
6	41.951479	-84.629682	1106.34	6.00	1112.34

Name: Array 1-3
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951236	-84.627609	1098.14	6.00	1104.14
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.951479	-84.629682	1106.34	6.00	1112.34
4	41.951491	-84.627665	1076.24	6.00	1082.24
5	41.951236	-84.627609	1098.14	6.00	1104.14



Name: Array 1-4
Footprint area: 2.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

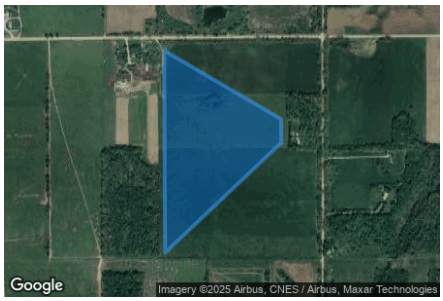
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.950912	-84.627317	1106.32	6.00	1112.32
2	41.949205	-84.630406	1109.74	6.00	1115.74
3	41.949460	-84.630461	1109.29	6.00	1115.29
4	41.951236	-84.627609	1098.14	6.00	1104.14
5	41.951237	-84.627318	1077.99	6.00	1083.99
6	41.950912	-84.627317	1106.32	6.00	1112.32

Name: Array 2-1
Footprint area: 43.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960158	-84.614096	1168.72	6.00	1174.72
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.963178	-84.619285	1151.82	6.00	1157.82
4	41.960930	-84.614099	1150.39	6.00	1156.39
5	41.960158	-84.614096	1168.72	6.00	1174.72



Name: Array 2-2
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962284	-84.613998	1136.69	6.00	1142.69
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.963208	-84.612597	1124.72	6.00	1130.72
4	41.962290	-84.612602	1133.03	6.00	1139.03
5	41.962284	-84.613998	1136.69	6.00	1142.69

Name: Array 2-3
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960930	-84.614099	1150.39	6.00	1156.39
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.962284	-84.613998	1136.69	6.00	1142.69
4	41.961258	-84.613987	1145.76	6.00	1151.76
5	41.960930	-84.614099	1150.39	6.00	1156.39

Name: Array 2-4
Footprint area: 11.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.960158	-84.614096	1168.72	6.00	1174.72
4	41.959789	-84.613911	1174.02	6.00	1180.02
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-5
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.959789	-84.613911	1174.02	6.00	1180.02
3	41.959794	-84.612705	1158.37	6.00	1164.37
4	41.957533	-84.612697	1137.11	6.00	1143.11
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-6
Footprint area: 4.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.956554	-84.619241	1152.14	6.00	1158.14
2	41.957527	-84.615291	1146.01	6.00	1152.01
3	41.956575	-84.615287	1137.71	6.00	1143.71
4	41.956554	-84.619241	1152.14	6.00	1158.14

Name: Array 3-1
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960125	-84.612001	1141.66	6.00	1147.66
2	41.962778	-84.611186	1108.50	6.00	1114.50
3	41.962784	-84.609783	1110.84	6.00	1116.84
4	41.960976	-84.609172	1138.99	6.00	1144.99
5	41.960137	-84.609220	1143.78	6.00	1149.78
6	41.960125	-84.612001	1141.66	6.00	1147.66

Name: Array 3-2
Footprint area: 0.66 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961269	-84.608152	1121.08	6.00	1127.08
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961198	-84.607865	1114.31	6.00	1120.31
4	41.961197	-84.608152	1119.60	6.00	1125.60
5	41.961269	-84.608152	1121.08	6.00	1127.08

Name: Array 3-3
Footprint area: 0.25 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961382	-84.608248	1124.44	6.00	1130.44
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961269	-84.608152	1121.08	6.00	1127.08
4	41.961382	-84.608248	1124.44	6.00	1130.44

Name: Array 3-4
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960976	-84.609172	1138.99	6.00	1144.99
2	41.962784	-84.609783	1110.84	6.00	1116.84
3	41.963223	-84.609784	1106.63	6.00	1112.63
4	41.963227	-84.607873	1104.33	6.00	1110.33
5	41.961382	-84.608248	1124.44	6.00	1130.44
6	41.960976	-84.609172	1138.99	6.00	1144.99

Name: Array 3-5
Footprint area: 3.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962778	-84.611186	1108.50	6.00	1114.50
2	41.960125	-84.612001	1141.66	6.00	1147.66
3	41.963210	-84.611984	1117.50	6.00	1123.50
4	41.963213	-84.611201	1106.02	6.00	1112.02
5	41.962778	-84.611186	1108.50	6.00	1114.50

Name: Array 4-1
Footprint area: 16.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.967691	-84.605473	1126.22	6.00	1132.22
3	41.968748	-84.605477	1126.71	6.00	1132.71
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.966592	-84.602774	1110.33	6.00	1116.33
6	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-2
Footprint area: 28.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

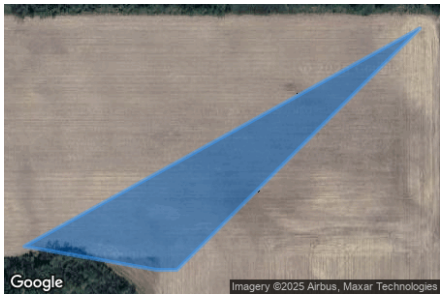
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968942	-84.607166	1128.02	6.00	1134.02
2	41.968927	-84.612047	1146.74	6.00	1152.74
3	41.970703	-84.612059	1158.00	6.00	1164.00
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968942	-84.607166	1128.02	6.00	1134.02

Name: Array 4-3
Footprint area: 4.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

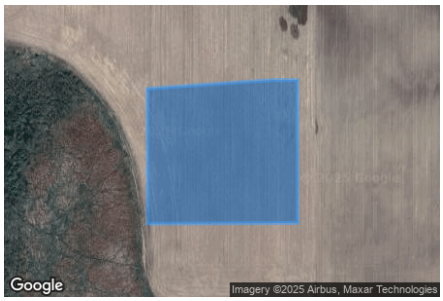
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968748	-84.605477	1126.71	6.00	1132.71
2	41.968747	-84.605705	1127.66	6.00	1133.66
3	41.968942	-84.607166	1128.02	6.00	1134.02
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968748	-84.605477	1126.71	6.00	1132.71



Name: Array 4-4
Footprint area: 4.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965525	-84.604431	1112.80	6.00	1118.80
2	41.965596	-84.603055	1109.79	6.00	1115.79
3	41.965597	-84.602770	1109.55	6.00	1115.55
4	41.964425	-84.602765	1111.32	6.00	1117.32
5	41.964418	-84.604427	1096.71	6.00	1102.71
6	41.965522	-84.604431	1112.80	6.00	1118.80
7	41.965525	-84.604431	1112.80	6.00	1118.80



Name: Array 4-5
Footprint area: 2.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966039	-84.605619	1106.68	6.00	1112.68
2	41.966034	-84.606832	1100.43	6.00	1106.43
3	41.966952	-84.606836	1116.73	6.00	1122.73
4	41.966959	-84.605566	1123.04	6.00	1129.04
5	41.966039	-84.605619	1106.68	6.00	1112.68

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

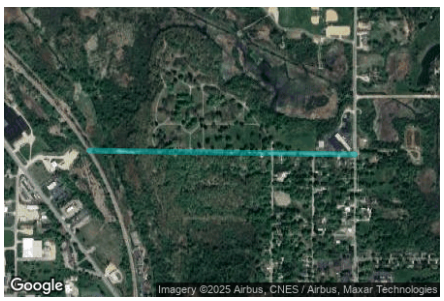
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

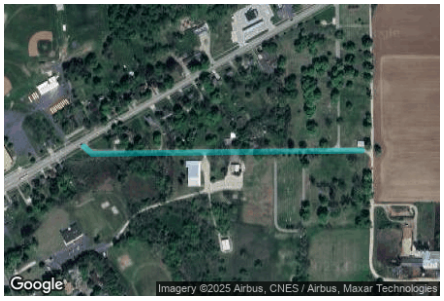
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

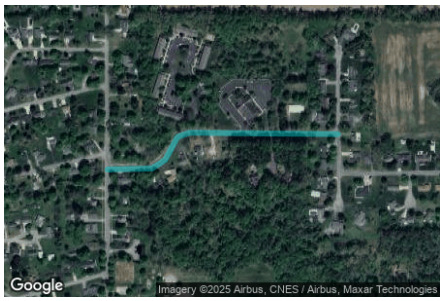
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 1-1	SA tracking	SA tracking	0	0	770,500.0	-
Array 1-2	SA tracking	SA tracking	604	0	793,300.0	-
Array 1-3	SA tracking	SA tracking	1,289	0	825,000.0	-
Array 1-4	SA tracking	SA tracking	4,410	0	833,300.0	-
Array 2-1	SA tracking	SA tracking	0	0	787,200.0	-
Array 2-2	SA tracking	SA tracking	0	0	773,900.0	-
Array 2-3	SA tracking	SA tracking	0	0	777,600.0	-
Array 2-4	SA tracking	SA tracking	0	0	758,800.0	-
Array 2-5	SA tracking	SA tracking	0	0	756,800.0	-
Array 2-6	SA tracking	SA tracking	0	0	762,100.0	-
Array 3-1	SA tracking	SA tracking	0	0	779,900.0	-
Array 3-2	SA tracking	SA tracking	0	0	758,000.0	-
Array 3-3	SA tracking	SA tracking	0	0	771,000.0	-
Array 3-4	SA tracking	SA tracking	0	0	782,700.0	-
Array 3-5	SA tracking	SA tracking	0	0	774,200.0	-
Array 4-1	SA tracking	SA tracking	0	0	767,700.0	-
Array 4-2	SA tracking	SA tracking	0	0	767,900.0	-
Array 4-3	SA tracking	SA tracking	0	0	782,700.0	-
Array 4-4	SA tracking	SA tracking	0	0	761,100.0	-
Array 4-5	SA tracking	SA tracking	0	0	755,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-1-2 (green)	197	8	0	0	0	0	0	0	0	0	127	272
array-1-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-3 (green)	168	0	0	0	0	0	0	0	0	0	47	484
array-1-3 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-4 (green)	605	1	0	0	0	0	0	0	0	0	337	845
array-1-4 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 1-1 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 1-2 low potential for temporary after-image

Predicted energy output: 793,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	604	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 1-2: OP 1

No glare found

Array 1-2: OP 2

No glare found

Array 1-2: OP 3
No glare found

Array 1-2: OP 4
No glare found

Array 1-2: OP 5
No glare found

Array 1-2: OP 6
No glare found

Array 1-2: OP 7
No glare found

Array 1-2: OP 8
No glare found

Array 1-2: OP 9
No glare found

Array 1-2: OP 10
No glare found

Array 1-2: OP 11
No glare found

Array 1-2: OP 12
No glare found

Array 1-2: OP 13
No glare found

Array 1-2: OP 14
No glare found

Array 1-2: OP 15
No glare found

Array 1-2: OP 16
No glare found

Array 1-2: OP 17
No glare found

Array 1-2: OP 18
No glare found

Array 1-2: OP 19
No glare found

Array 1-2: OP 20
No glare found

Array 1-2: OP 21
No glare found

Array 1-2: OP 22
No glare found

Array 1-2: OP 23
No glare found

Array 1-2: OP 24
No glare found

Array 1-2: OP 25
No glare found

Array 1-2: OP 26
No glare found

Array 1-2: OP 27
No glare found

Array 1-2: OP 28
No glare found

Array 1-2: OP 29
No glare found

Array 1-2: OP 30
No glare found

Array 1-2: OP 31
No glare found

Array 1-2: OP 32
No glare found

Array 1-2: OP 33
No glare found

Array 1-2: OP 34
No glare found

Array 1-2: OP 35
No glare found

Array 1-2: OP 36
No glare found

Array 1-2: OP 37
No glare found

Array 1-2: OP 38
No glare found

Array 1-2: OP 39
No glare found

Array 1-2: OP 40
No glare found

Array 1-2: OP 41
No glare found

Array 1-2: OP 42
No glare found

Array 1-2: OP 43
No glare found

Array 1-2: OP 44
No glare found

Array 1-2: OP 45
No glare found

Array 1-2: OP 46
No glare found

Array 1-2: OP 47
No glare found

Array 1-2: OP 48
No glare found

Array 1-2: OP 49
No glare found

Array 1-2: OP 50
No glare found

Array 1-2: Ball Rd
No glare found

Array 1-2: E Chicago Rd
No glare found

Array 1-2: Half Moon Lake Rd
No glare found

Array 1-2: Half Moon Lake Rd2
No glare found

Array 1-2: Homer Rd
No glare found

Array 1-2: Mauck Rd
No glare found

Array 1-2: Milnes Rd
No glare found

Array 1-2: Montgomery St
No glare found

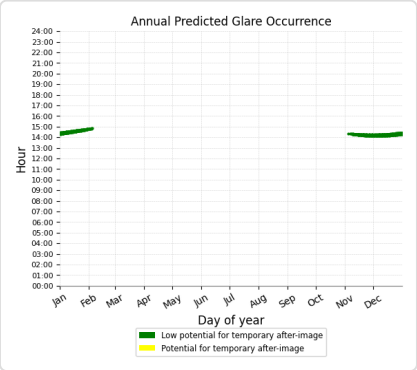
Array 1-2: Moore Rd E
No glare found

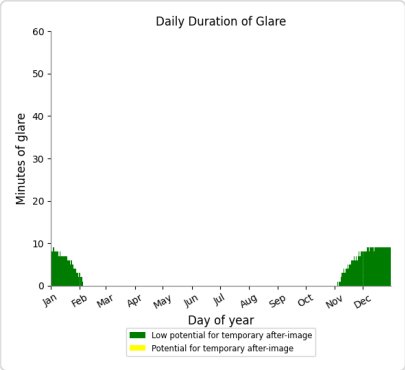
Array 1-2: N Adams Rd
No glare found

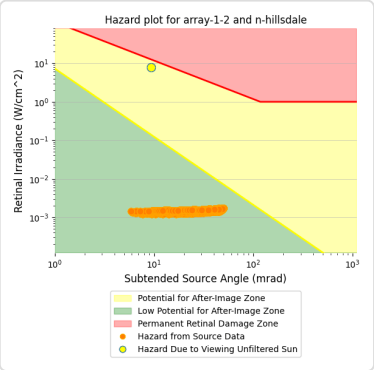
Array 1-2: N Hillsdale Rd

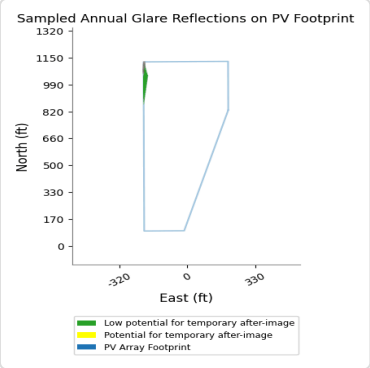
PV array is expected to produce the following glare for this receptor:

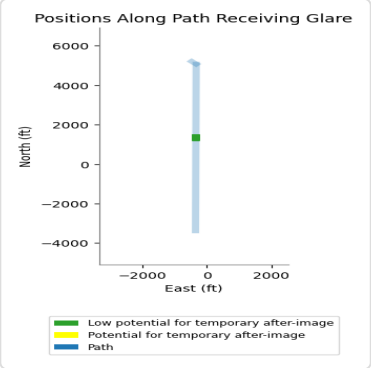
- 604 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-2: Oak St

No glare found

Array 1-2: Parkwood Dr

No glare found

Array 1-2: Salem Dr

No glare found

Array 1-2: White Rd

No glare found

Array 1-3 low potential for temporary after-image

Predicted energy output: 825,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0

OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	112	0
OP: OP 21	88	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	173	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	183	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0

Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	495	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	238	0

Array 1-3: OP 1
No glare found

Array 1-3: OP 2
No glare found

Array 1-3: OP 3
No glare found

Array 1-3: OP 4
No glare found

Array 1-3: OP 5
No glare found

Array 1-3: OP 6
No glare found

Array 1-3: OP 7
No glare found

Array 1-3: OP 8
No glare found

Array 1-3: OP 9
No glare found

Array 1-3: OP 10
No glare found

Array 1-3: OP 11
No glare found

Array 1-3: OP 12
No glare found

Array 1-3: OP 13

No glare found

Array 1-3: OP 14

No glare found

Array 1-3: OP 15

No glare found

Array 1-3: OP 16

No glare found

Array 1-3: OP 17

No glare found

Array 1-3: OP 18

No glare found

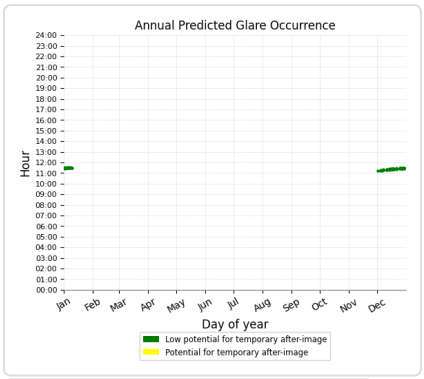
Array 1-3: OP 19

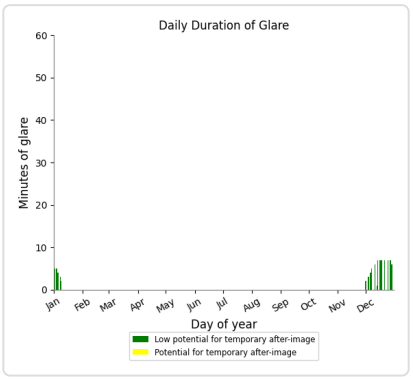
No glare found

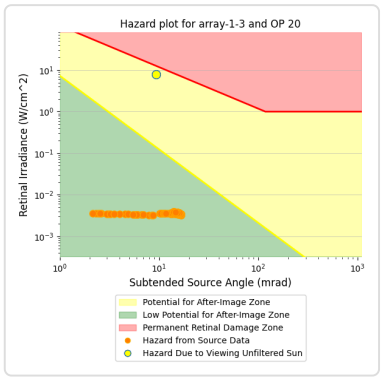
Array 1-3: OP 20

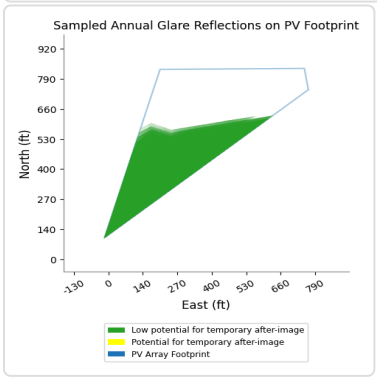
PV array is expected to produce the following glare for this receptor:

- 112 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





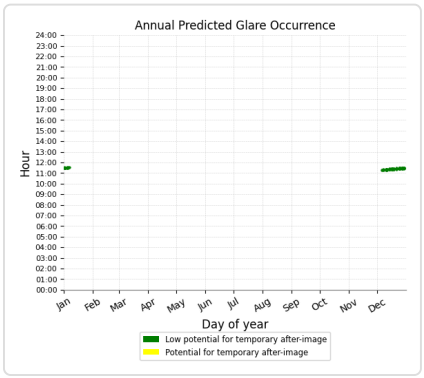


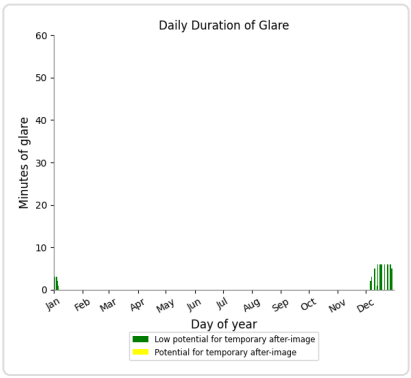


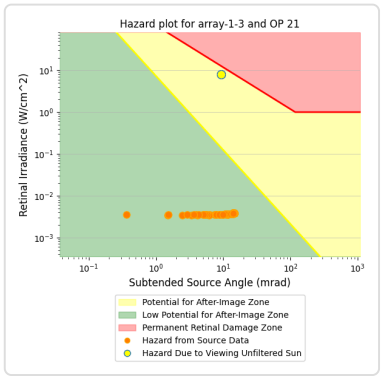
Array 1-3: OP 21

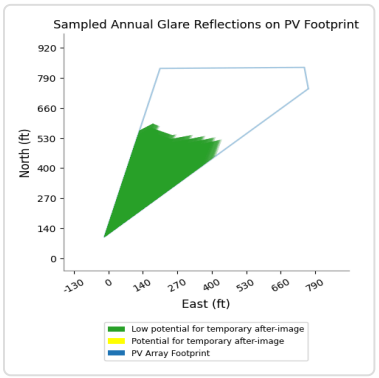
PV array is expected to produce the following glare for this receptor:

- 88 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-3: OP 22

No glare found

Array 1-3: OP 23

No glare found

Array 1-3: OP 24

No glare found

Array 1-3: OP 25

No glare found

Array 1-3: OP 26

No glare found

Array 1-3: OP 27

No glare found

Array 1-3: OP 28

No glare found

Array 1-3: OP 29

No glare found

Array 1-3: OP 30
No glare found

Array 1-3: OP 31
No glare found

Array 1-3: OP 32
No glare found

Array 1-3: OP 33
No glare found

Array 1-3: OP 34
No glare found

Array 1-3: OP 35
No glare found

Array 1-3: OP 36
No glare found

Array 1-3: OP 37
No glare found

Array 1-3: OP 38
No glare found

Array 1-3: OP 39
No glare found

Array 1-3: OP 40
No glare found

Array 1-3: OP 41
No glare found

Array 1-3: OP 42
No glare found

Array 1-3: OP 43
No glare found

Array 1-3: OP 44
No glare found

Array 1-3: OP 45

No glare found

Array 1-3: OP 46

No glare found

Array 1-3: OP 47

No glare found

Array 1-3: OP 48

No glare found

Array 1-3: OP 49

No glare found

Array 1-3: OP 50

No glare found

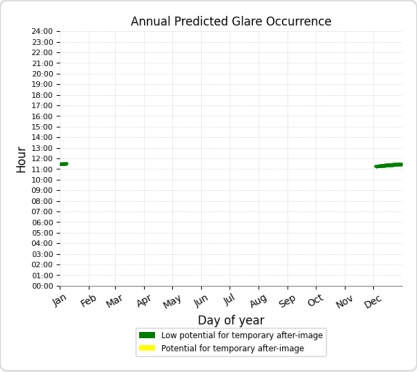
Array 1-3: Ball Rd

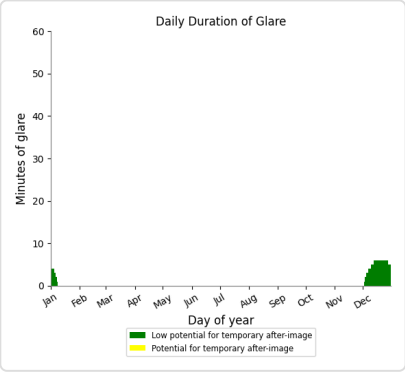
No glare found

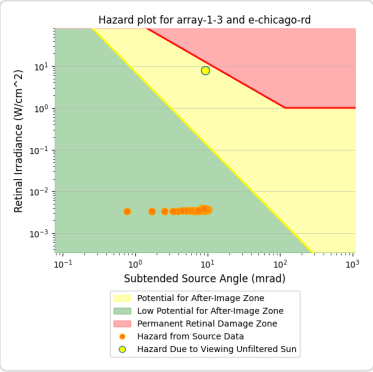
Array 1-3: E Chicago Rd

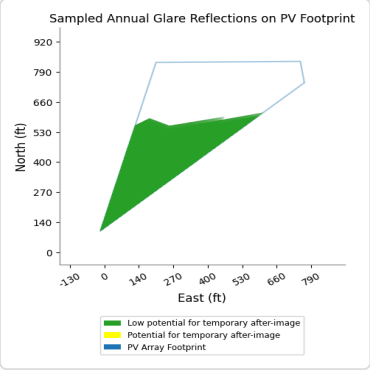
PV array is expected to produce the following glare for this receptor:

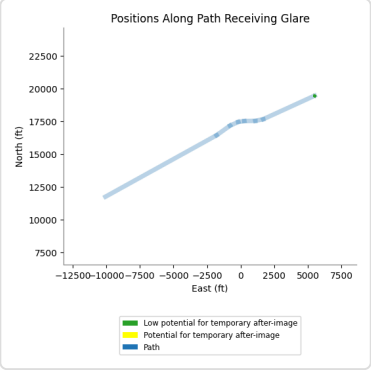
- 173 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











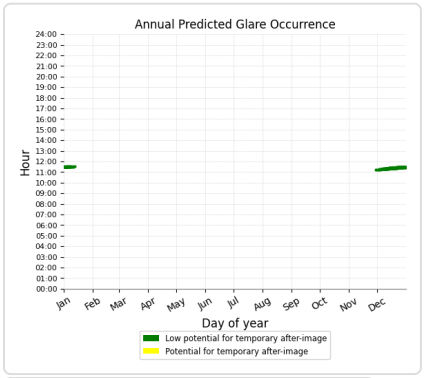
Array 1-3: Half Moon Lake Rd

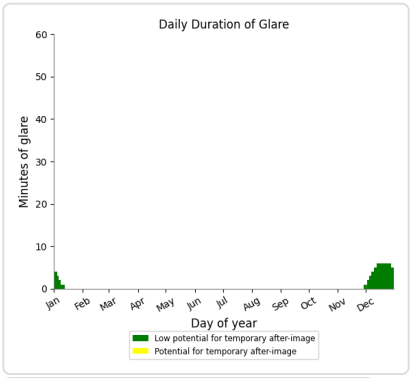
No glare found

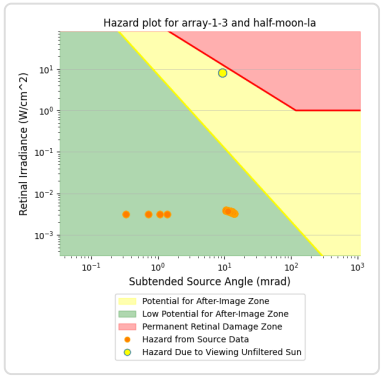
Array 1-3: Half Moon Lake Rd2

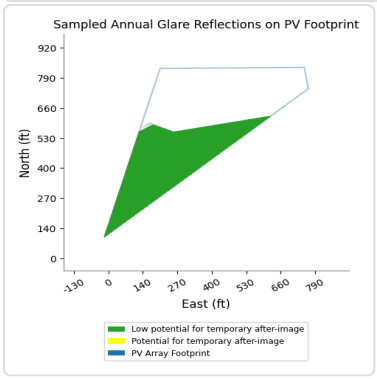
PV array is expected to produce the following glare for this receptor:

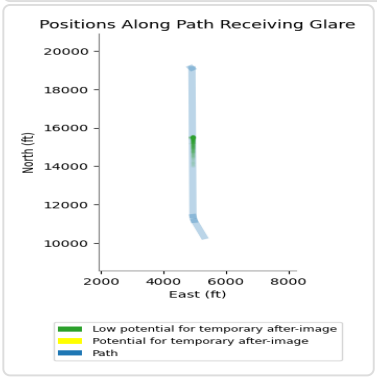
- 183 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Homer Rd

No glare found

Array 1-3: Mauck Rd

No glare found

Array 1-3: Milnes Rd

No glare found

Array 1-3: Montgomery St

No glare found

Array 1-3: Moore Rd E

No glare found

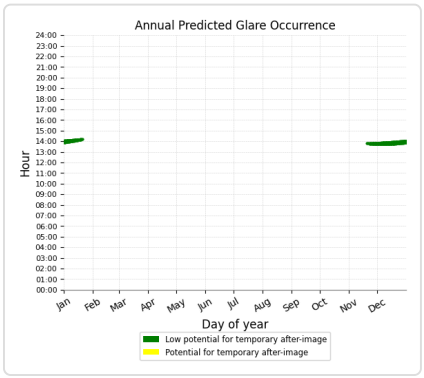
Array 1-3: N Adams Rd

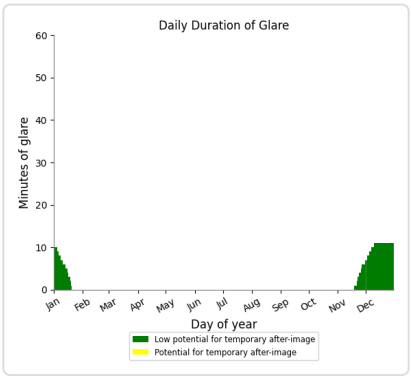
No glare found

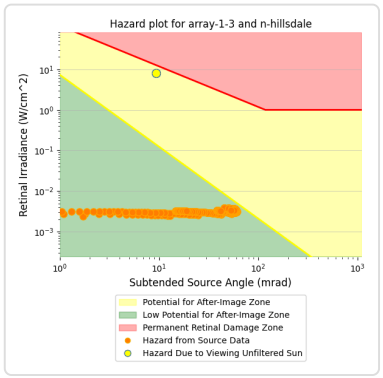
Array 1-3: N Hillsdale Rd

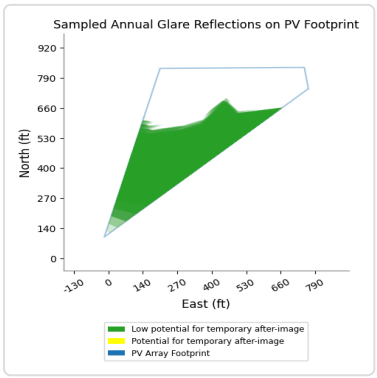
PV array is expected to produce the following glare for this receptor:

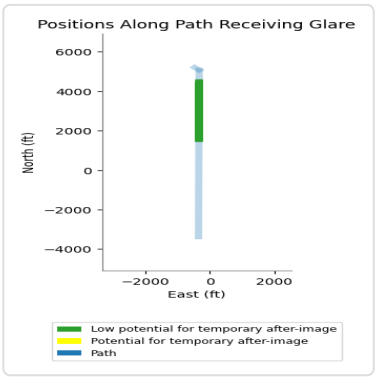
- 495 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Oak St

No glare found

Array 1-3: Parkwood Dr

No glare found

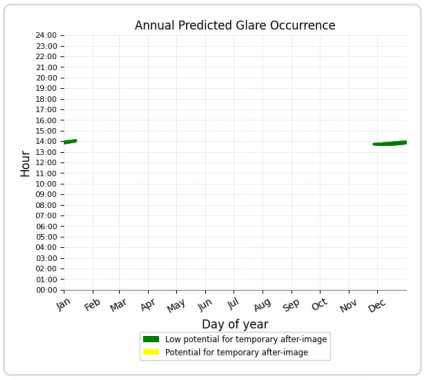
Array 1-3: Salem Dr

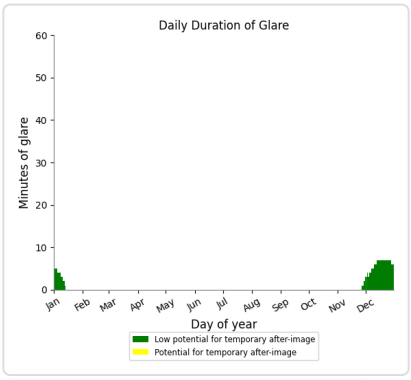
No glare found

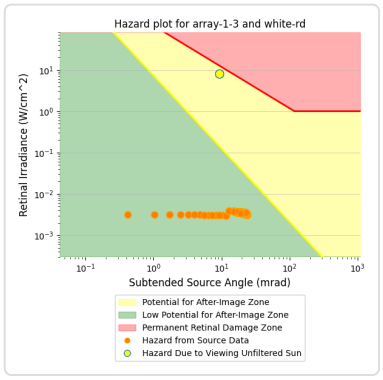
Array 1-3: White Rd

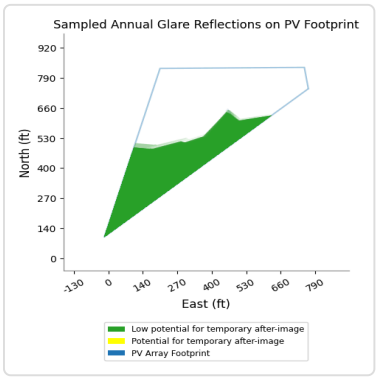
PV array is expected to produce the following glare for this receptor:

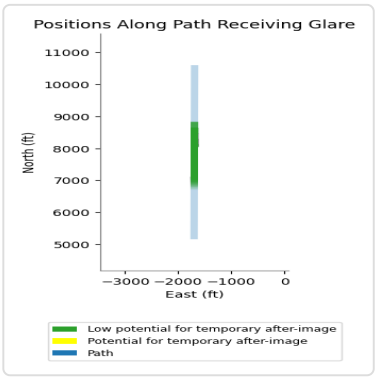
- 238 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4 low potential for temporary after-image

Predicted energy output: 833,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	15	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	191	0
OP: OP 21	143	0

OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	101	0
OP: OP 27	149	0
OP: OP 28	159	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	152	0
OP: OP 44	146	0
OP: OP 45	43	0
OP: OP 46	39	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	773	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	830	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	951	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	718	0

Array 1-4: OP 1

No glare found

Array 1-4: OP 2

No glare found

Array 1-4: OP 3

No glare found

Array 1-4: OP 4

No glare found

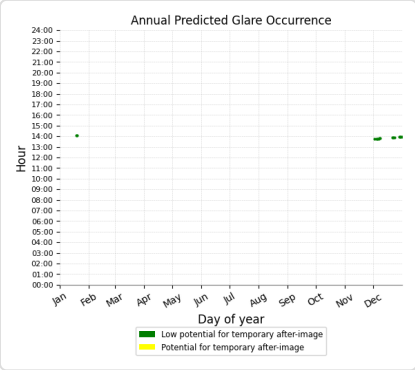
Array 1-4: OP 5

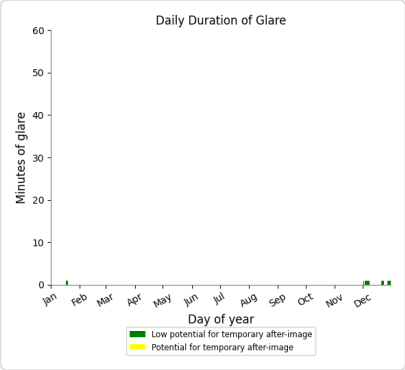
No glare found

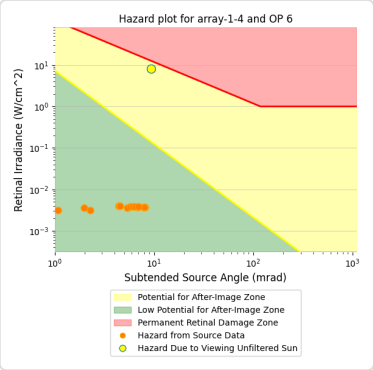
Array 1-4: OP 6

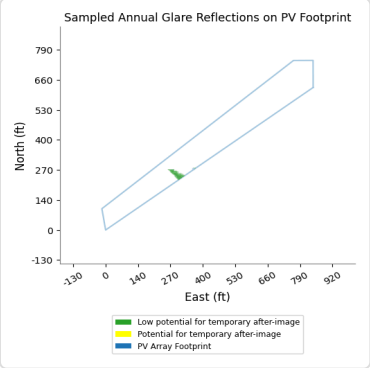
PV array is expected to produce the following glare for this receptor:

- 15 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 7

No glare found

Array 1-4: OP 8

No glare found

Array 1-4: OP 9

No glare found

Array 1-4: OP 10

No glare found

Array 1-4: OP 11
No glare found

Array 1-4: OP 12
No glare found

Array 1-4: OP 13
No glare found

Array 1-4: OP 14
No glare found

Array 1-4: OP 15
No glare found

Array 1-4: OP 16
No glare found

Array 1-4: OP 17
No glare found

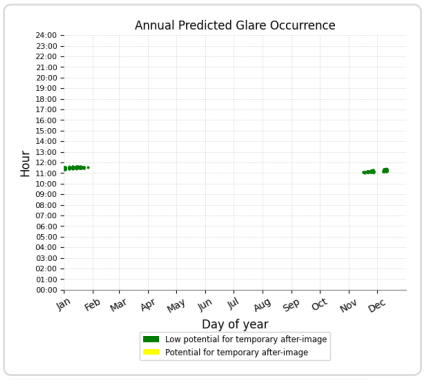
Array 1-4: OP 18
No glare found

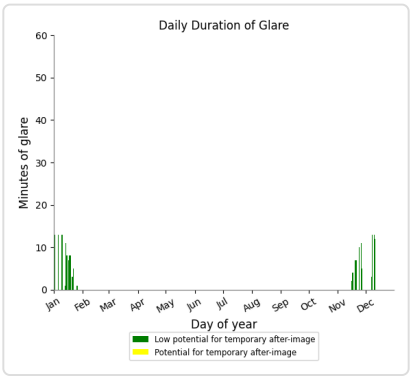
Array 1-4: OP 19
No glare found

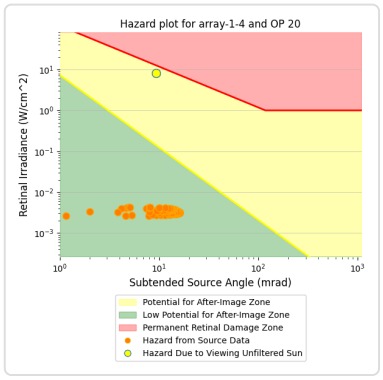
Array 1-4: OP 20

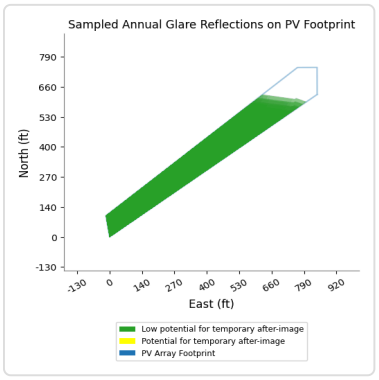
PV array is expected to produce the following glare for this receptor:

- 191 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





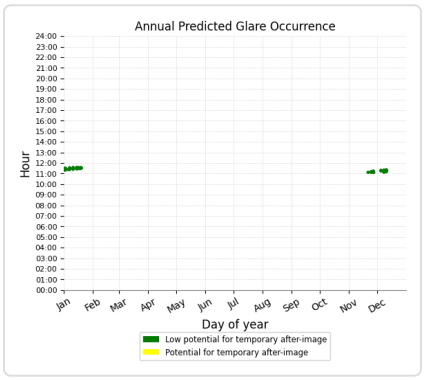


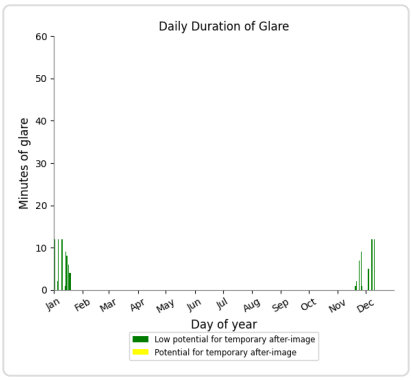


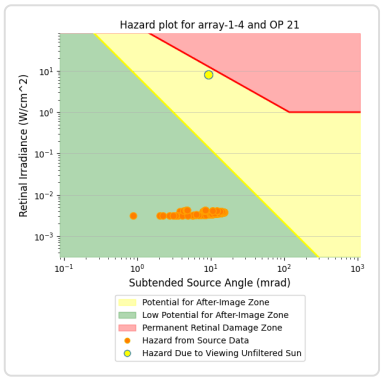
Array 1-4: OP 21

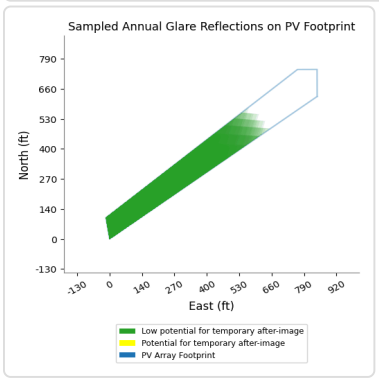
PV array is expected to produce the following glare for this receptor:

- 143 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 22

No glare found

Array 1-4: OP 23

No glare found

Array 1-4: OP 24

No glare found

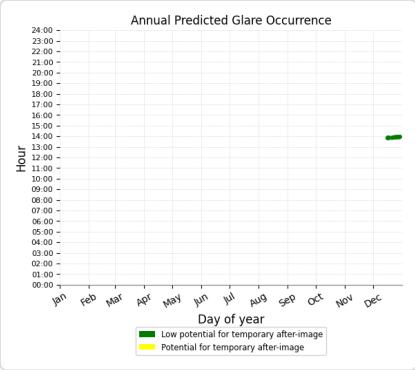
Array 1-4: OP 25

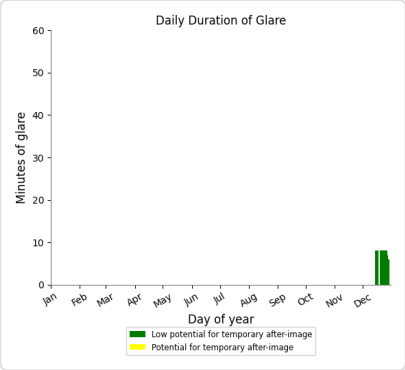
No glare found

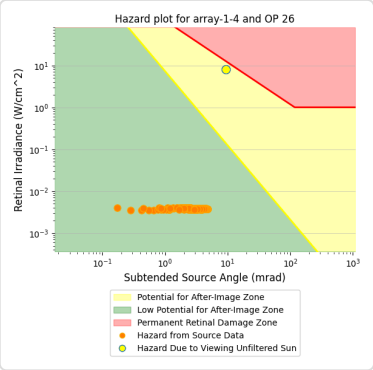
Array 1-4: OP 26

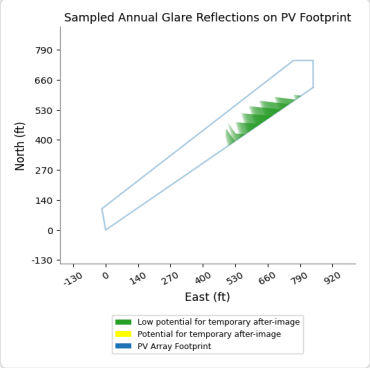
PV array is expected to produce the following glare for this receptor:

- 101 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





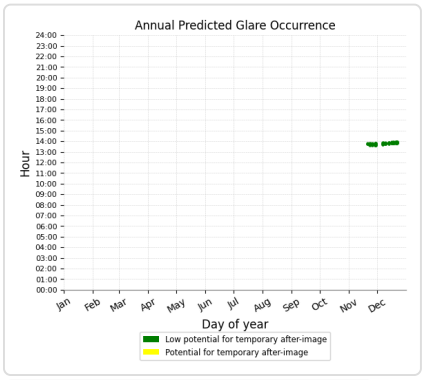


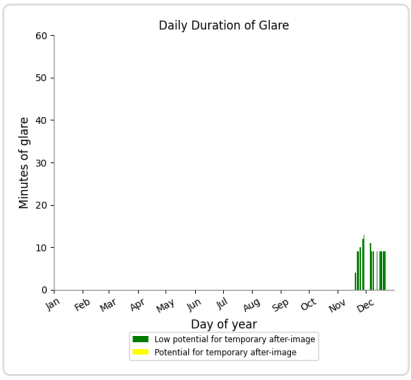


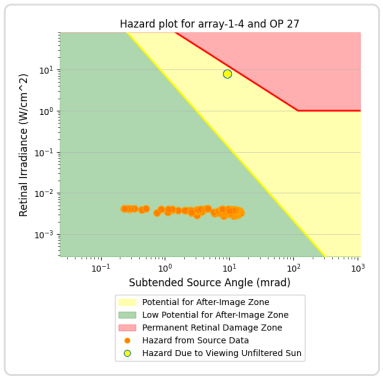
Array 1-4: OP 27

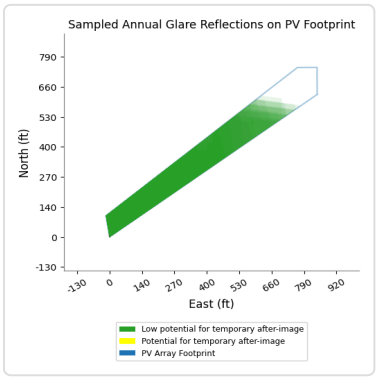
PV array is expected to produce the following glare for this receptor:

- 149 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





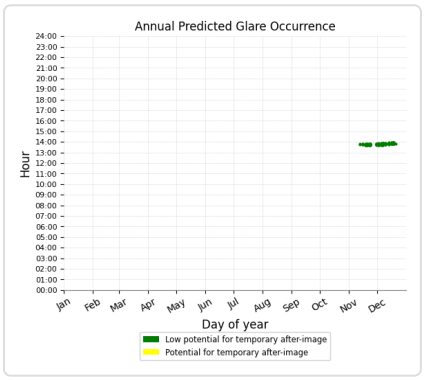


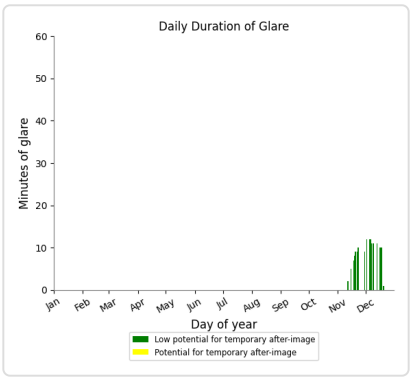


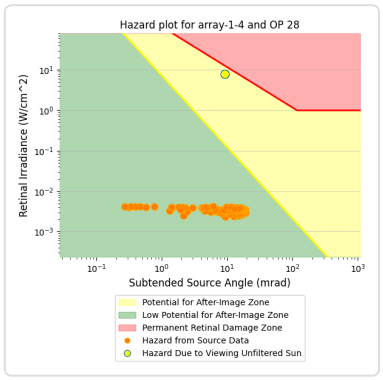
Array 1-4: OP 28

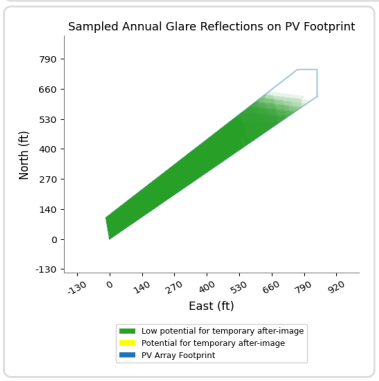
PV array is expected to produce the following glare for this receptor:

- 159 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 29
No glare found

Array 1-4: OP 30
No glare found

Array 1-4: OP 31
No glare found

Array 1-4: OP 32
No glare found

Array 1-4: OP 33
No glare found

Array 1-4: OP 34
No glare found

Array 1-4: OP 35
No glare found

Array 1-4: OP 36
No glare found

Array 1-4: OP 37
No glare found

Array 1-4: OP 38
No glare found

Array 1-4: OP 39
No glare found

Array 1-4: OP 40
No glare found

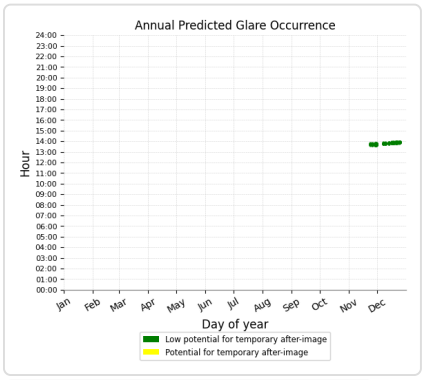
Array 1-4: OP 41
No glare found

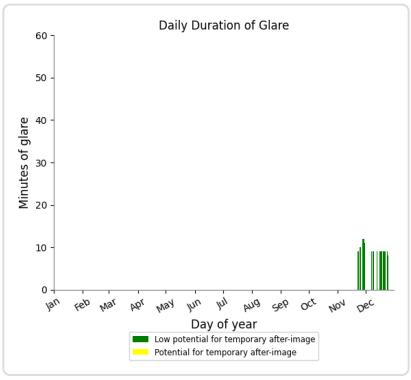
Array 1-4: OP 42
No glare found

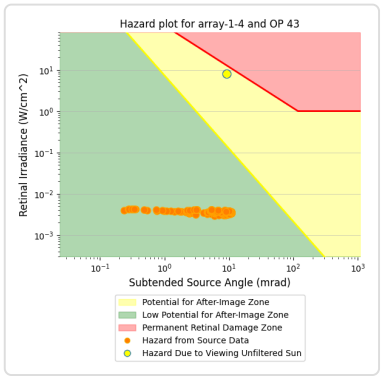
Array 1-4: OP 43

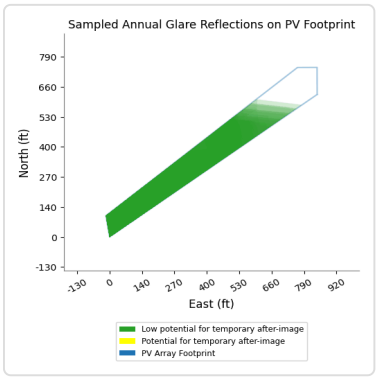
PV array is expected to produce the following glare for this receptor:

- 152 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





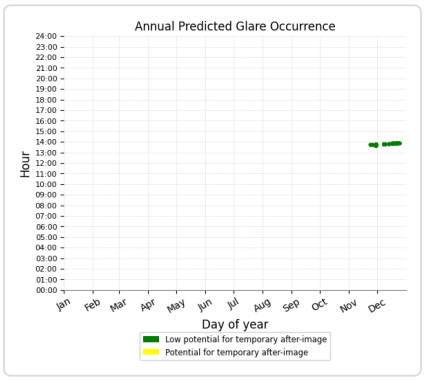


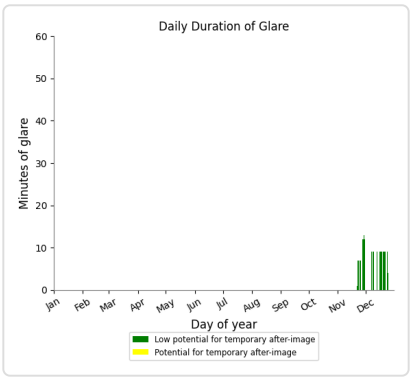


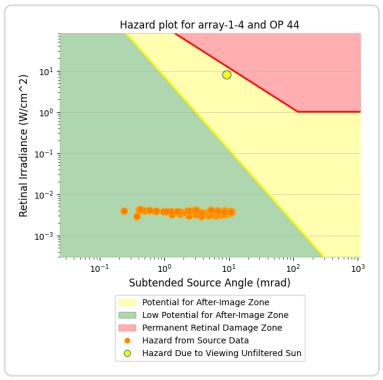
Array 1-4: OP 44

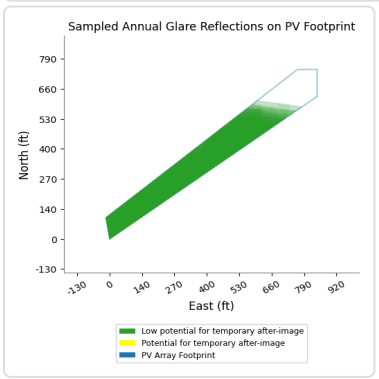
PV array is expected to produce the following glare for this receptor:

- 146 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





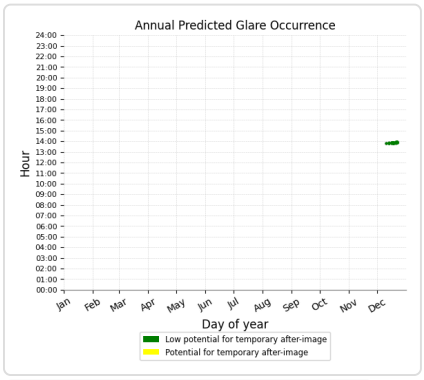


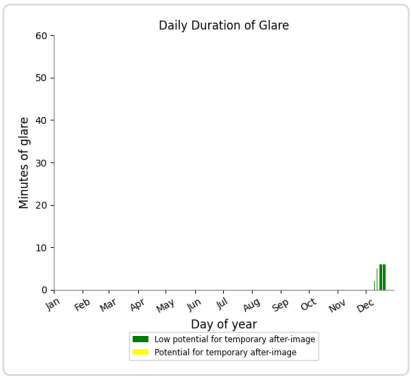


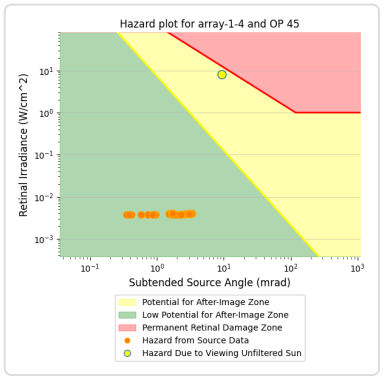
Array 1-4: OP 45

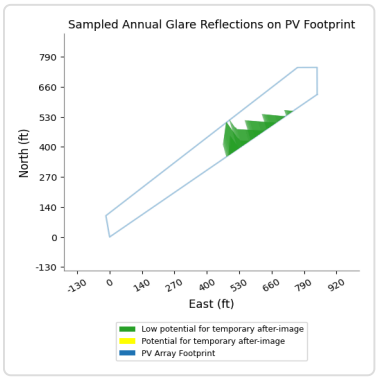
PV array is expected to produce the following glare for this receptor:

- 43 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





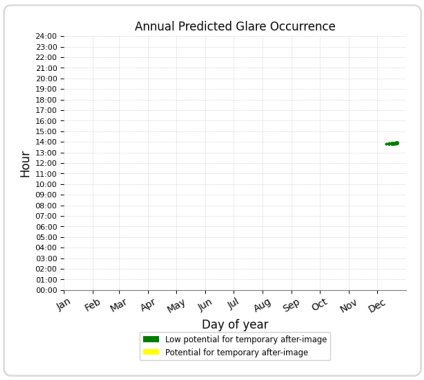


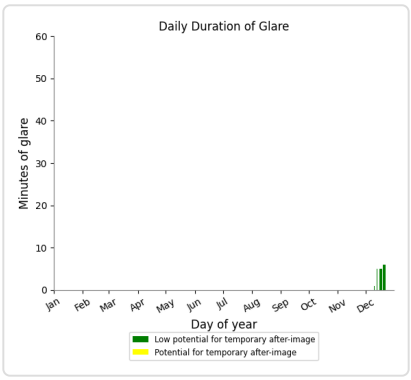


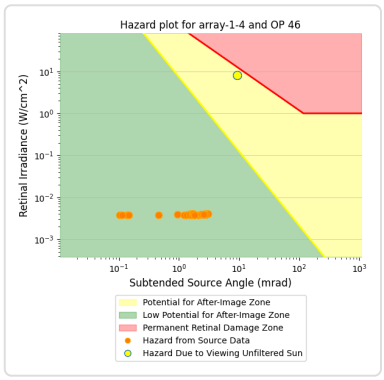
Array 1-4: OP 46

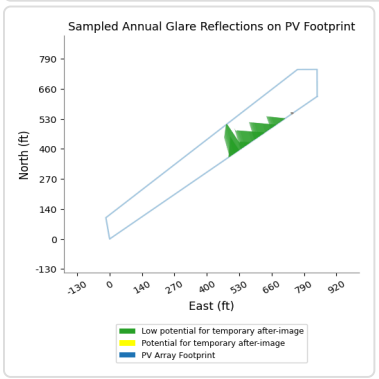
PV array is expected to produce the following glare for this receptor:

- 39 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 47

No glare found

Array 1-4: OP 48

No glare found

Array 1-4: OP 49

No glare found

Array 1-4: OP 50

No glare found

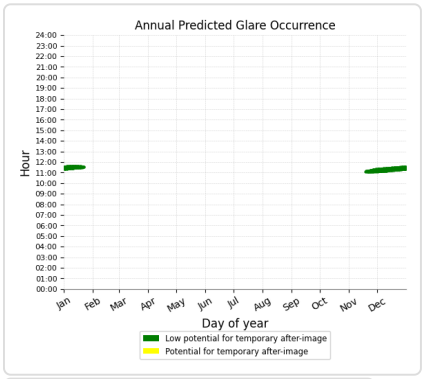
Array 1-4: Ball Rd

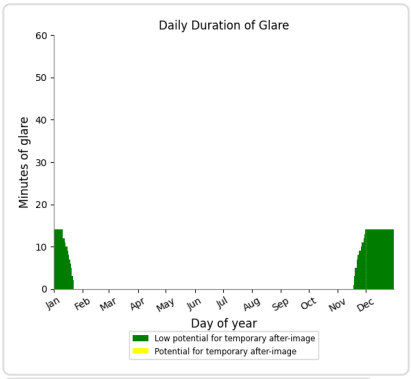
No glare found

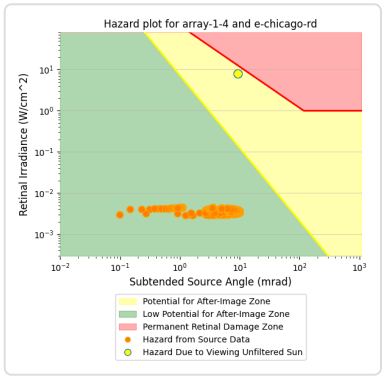
Array 1-4: E Chicago Rd

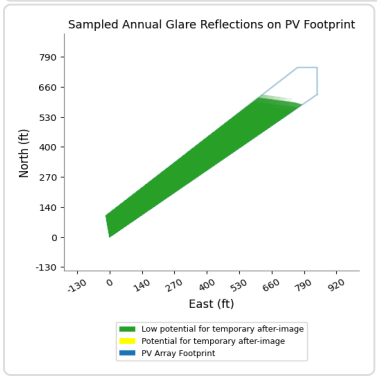
PV array is expected to produce the following glare for this receptor:

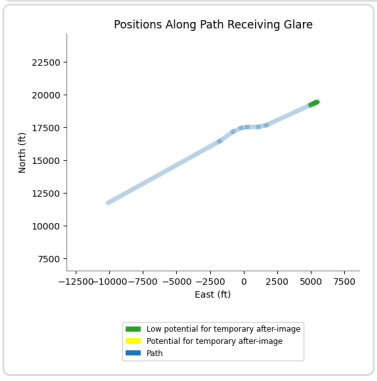
- 773 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











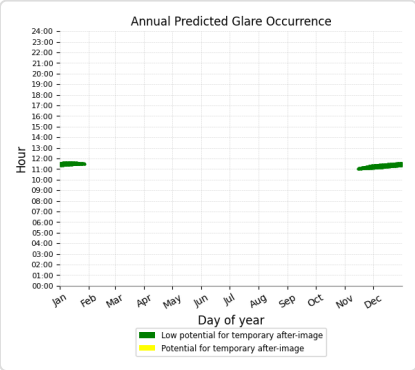
Array 1-4: Half Moon Lake Rd

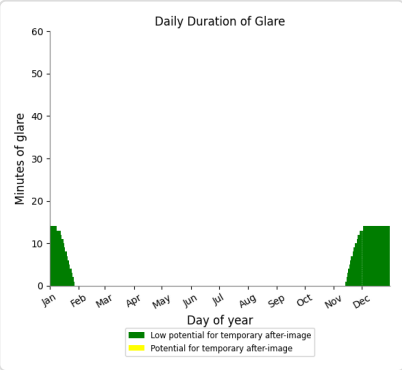
No glare found

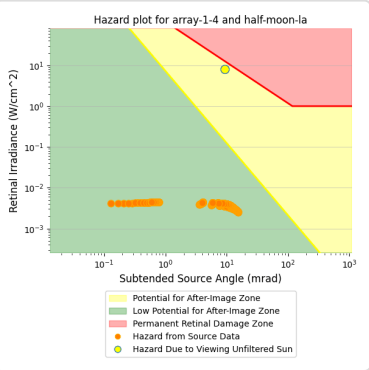
Array 1-4: Half Moon Lake Rd2

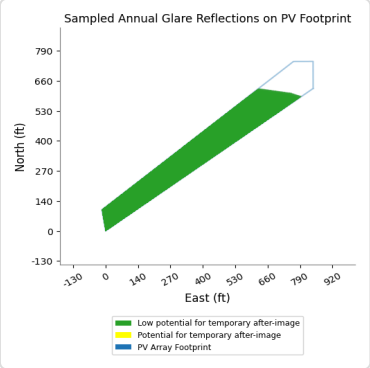
PV array is expected to produce the following glare for this receptor:

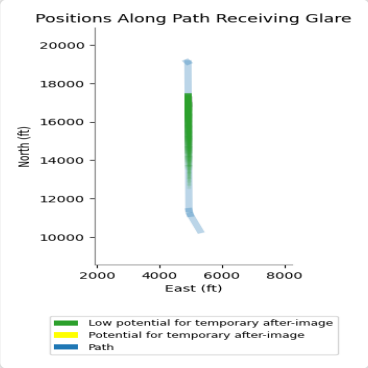
- 830 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Homer Rd

No glare found

Array 1-4: Mauck Rd

No glare found

Array 1-4: Milnes Rd

No glare found

Array 1-4: Montgomery St

No glare found

Array 1-4: Moore Rd E

No glare found

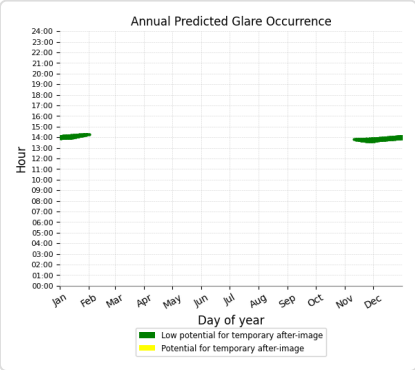
Array 1-4: N Adams Rd

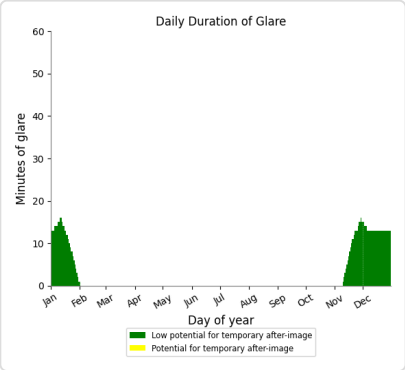
No glare found

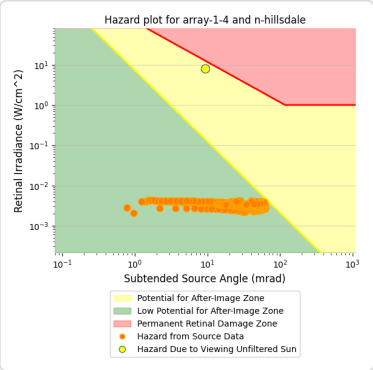
Array 1-4: N Hillsdale Rd

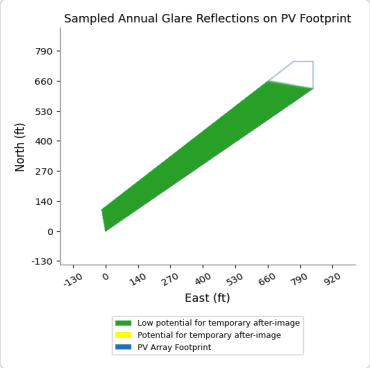
PV array is expected to produce the following glare for this receptor:

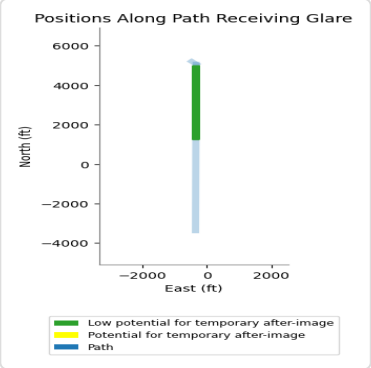
- 951 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Oak St

No glare found

Array 1-4: Parkwood Dr

No glare found

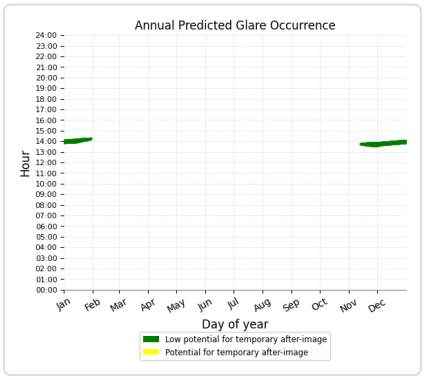
Array 1-4: Salem Dr

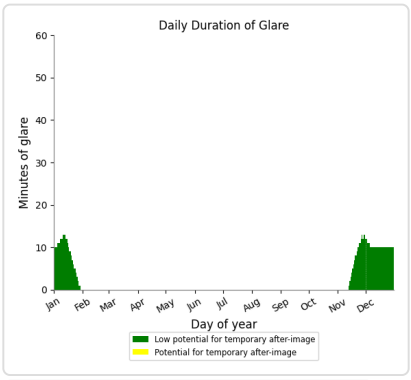
No glare found

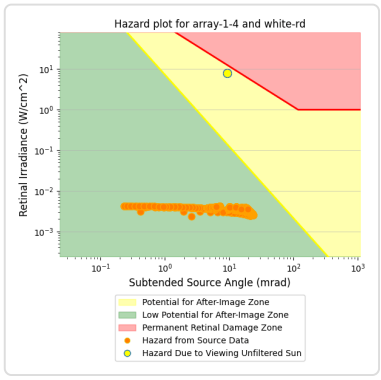
Array 1-4: White Rd

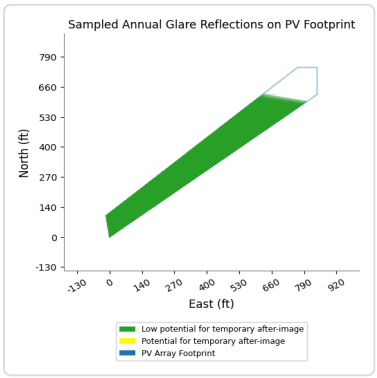
PV array is expected to produce the following glare for this receptor:

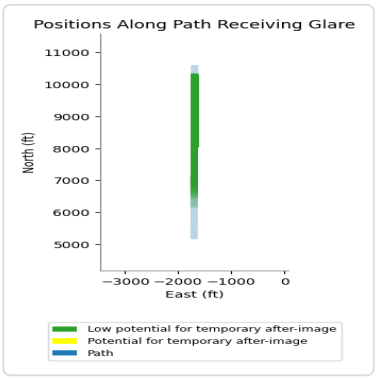
- 718 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 2-1 no glare found

Predicted energy output: 787,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-2 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-3 no glare found

Predicted energy output: 777,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-4 no glare found

Predicted energy output: 758,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-5 no glare found

Predicted energy output: 756,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-6 no glare found

Predicted energy output: 762,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-1 no glare found

Predicted energy output: 779,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-2 no glare found

Predicted energy output: 758,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-3 no glare found

Predicted energy output: 771,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-4 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-5 no glare found

Predicted energy output: 774,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-1 no glare found

Predicted energy output: 767,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-2 no glare found

Predicted energy output: 767,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-3 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-4 no glare found

Predicted energy output: 761,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-5 no glare found

Predicted energy output: 755,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs wARC 2

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162920.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 4-6	SA tracking	SA tracking	0	0	743,900.0
Array 4-7	SA tracking	SA tracking	3,647	0	861,200.0
Array 5-1	SA tracking	SA tracking	0	0	774,600.0
Array 6-1	SA tracking	SA tracking	0	0	766,600.0
Array 6-2	SA tracking	SA tracking	0	0	770,500.0
Array 6-3	SA tracking	SA tracking	0	0	767,200.0
Array 6-4	SA tracking	SA tracking	0	0	776,000.0
Array 7-1	SA tracking	SA tracking	0	0	782,600.0
Array 7-2	SA tracking	SA tracking	0	0	748,500.0
Array 7-3	SA tracking	SA tracking	0	0	759,300.0
Array 8-1	SA tracking	SA tracking	0	0	770,800.0
Array 8-2	SA tracking	SA tracking	2,851	0	809,300.0
Array 8-3	SA tracking	SA tracking	0	0	764,000.0
Array 9-1	SA tracking	SA tracking	0	0	776,000.0
Array 9-2	SA tracking	SA tracking	0	0	781,800.0
Array 9-3	SA tracking	SA tracking	0	0	770,600.0
Array 9-4	SA tracking	SA tracking	0	0	769,400.0
Array 9-5	SA tracking	SA tracking	0	0	765,500.0
Array 9-6	SA tracking	SA tracking	0	0	771,300.0
Array 9-7	SA tracking	SA tracking	0	0	717,000.0

Component Data

PV Array(s)

Total PV footprint area: 777.2 acres

Name: Array 4-6
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.965779	-84.604925	1106.36	6.00	1112.36
3	41.965777	-84.605528	1100.20	6.00	1106.20
4	41.966039	-84.605619	1106.68	6.00	1112.68
5	41.966959	-84.605566	1123.04	6.00	1129.04
6	41.967498	-84.605513	1125.37	6.00	1131.37
7	41.967691	-84.605473	1126.22	6.00	1132.22
8	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-7
Footprint area: 2.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965596	-84.603055	1109.79	6.00	1115.79
2	41.965525	-84.604431	1112.80	6.00	1118.80
3	41.965523	-84.604869	1103.46	6.00	1109.46
4	41.965779	-84.604925	1106.36	6.00	1112.36
5	41.966591	-84.603059	1110.78	6.00	1116.78
6	41.965596	-84.603055	1109.79	6.00	1115.79

Name: Array 5-1
Footprint area: 31.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

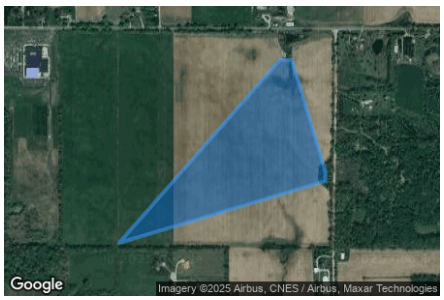
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.970950	-84.646327	1153.33	6.00	1159.33
2	41.970992	-84.648394	1137.46	6.00	1143.46
3	41.977712	-84.648408	1144.44	6.00	1150.44
4	41.977717	-84.646333	1129.66	6.00	1135.66
5	41.970950	-84.646327	1153.33	6.00	1159.33

Name: Array 6-1
Footprint area: 49.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973067	-84.637072	1150.02	6.00	1156.02
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977059	-84.639088	1147.44	6.00	1153.44
4	41.977056	-84.638550	1146.14	6.00	1152.14
5	41.973378	-84.637073	1151.24	6.00	1157.24
6	41.973067	-84.637072	1150.02	6.00	1156.02



Name: Array 6-2
Footprint area: 59.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977059	-84.639088	1147.44	6.00	1153.44
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977718	-84.646223	1129.69	6.00	1135.69
4	41.977652	-84.639351	1146.56	6.00	1152.56
5	41.977059	-84.639088	1147.44	6.00	1153.44

Name: Array 6-3
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973378	-84.637073	1151.24	6.00	1157.24
2	41.977056	-84.638550	1146.14	6.00	1152.14
3	41.977330	-84.638546	1147.63	6.00	1153.63
4	41.977331	-84.636913	1152.08	6.00	1158.08
5	41.973714	-84.636963	1152.39	6.00	1158.39
6	41.973378	-84.637073	1151.24	6.00	1157.24

Name: Array 6-4
Footprint area: 21.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.971018	-84.646217	1153.27	6.00	1159.27
2	41.973067	-84.637072	1150.02	6.00	1156.02
3	41.972974	-84.636975	1150.16	6.00	1156.16
4	41.971018	-84.637003	1168.83	6.00	1174.83
5	41.971018	-84.646217	1153.27	6.00	1159.27

Name: Array 7-1
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.980348	-84.649056	1112.34	6.00	1118.34
2	41.982619	-84.646353	1130.58	6.00	1136.58
3	41.979151	-84.646349	1131.69	6.00	1137.69
4	41.979156	-84.649054	1136.14	6.00	1142.14
5	41.980348	-84.649056	1112.34	6.00	1118.34

Name: Array 7-2
Footprint area: 4.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981523	-84.650101	1140.37	6.00	1146.37
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.980352	-84.651110	1106.46	6.00	1112.46
4	41.981525	-84.651116	1137.14	6.00	1143.14
5	41.981523	-84.650101	1140.37	6.00	1146.37

Name: Array 7-3
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982619	-84.646353	1130.58	6.00	1136.58
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.981523	-84.650101	1140.37	6.00	1146.37
4	41.982626	-84.649696	1142.71	6.00	1148.71
5	41.982619	-84.646353	1130.58	6.00	1136.58

Name: Array 8-1
Footprint area: 31.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985835	-84.646360	1146.10	6.00	1152.10
2	41.985026	-84.647658	1141.70	6.00	1147.70
3	41.985022	-84.648787	1134.51	6.00	1140.51
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.989860	-84.646384	1129.05	6.00	1135.05
6	41.985835	-84.646360	1146.10	6.00	1152.10

Name: Array 8-2
Footprint area: 7.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985022	-84.648787	1134.51	6.00	1140.51
2	41.984918	-84.648940	1143.07	6.00	1149.07
3	41.984922	-84.650800	1138.52	6.00	1144.52
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.985022	-84.648787	1134.51	6.00	1140.51

Name: Array 8-3
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

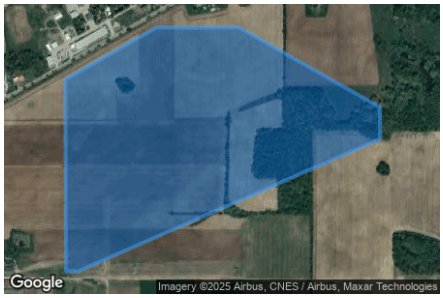
Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985026	-84.647658	1141.70	6.00	1147.70
2	41.985835	-84.646360	1146.10	6.00	1152.10
3	41.983607	-84.646355	1130.68	6.00	1136.68
4	41.983611	-84.647649	1134.90	6.00	1140.90
5	41.985026	-84.647658	1141.70	6.00	1147.70

Name: Array 9-1
Footprint area: 161.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991653	-84.638587	1125.38	6.00	1131.38
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.987979	-84.632333	1145.50	6.00	1151.50
4	41.983612	-84.645709	1135.37	6.00	1141.37
5	41.983610	-84.646244	1131.44	6.00	1137.44
6	41.989929	-84.646273	1128.42	6.00	1134.42
7	41.991657	-84.642224	1124.94	6.00	1130.94
8	41.991653	-84.638587	1125.38	6.00	1131.38



Name: Array 9-2
Footprint area: 5.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982618	-84.645705	1130.67	6.00	1136.67
2	41.979420	-84.645230	1133.67	6.00	1139.67
3	41.979307	-84.645231	1133.82	6.00	1139.82
4	41.979305	-84.646239	1131.83	6.00	1137.83
5	41.980410	-84.646235	1124.28	6.00	1130.28
6	41.982619	-84.646243	1130.53	6.00	1136.53
7	41.982618	-84.645705	1130.67	6.00	1136.67

Name: Array 9-3
Footprint area: 49.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.984842	-84.622290	1136.16	6.00	1142.16
2	41.979488	-84.623949	1149.93	6.00	1155.93
3	41.979495	-84.627147	1148.17	6.00	1154.17
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.984842	-84.622290	1136.16	6.00	1142.16

Name: Array 9-4
Footprint area: 11.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979488	-84.623949	1149.93	6.00	1155.93
2	41.984842	-84.622290	1136.16	6.00	1142.16
3	41.979229	-84.622244	1147.67	6.00	1153.67
4	41.979232	-84.623894	1149.49	6.00	1155.49
5	41.979488	-84.623949	1149.93	6.00	1155.93

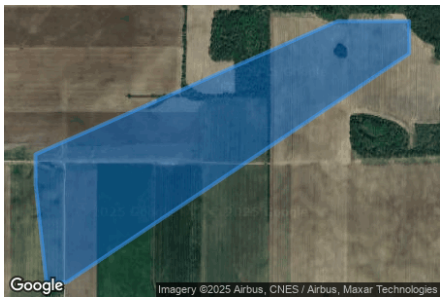
Name: Array 9-5
Footprint area: 165.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979420	-84.644327	1136.35	6.00	1142.35
2	41.986919	-84.629153	1149.61	6.00	1155.61
3	41.986914	-84.627157	1132.40	6.00	1138.40
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.979495	-84.627147	1148.17	6.00	1154.17
6	41.979240	-84.627200	1146.73	6.00	1152.73
7	41.979300	-84.644328	1136.42	6.00	1142.42
8	41.979420	-84.644327	1136.35	6.00	1142.35

Name: Array 9-6
Footprint area: 124.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983612	-84.645709	1135.37	6.00	1141.37
2	41.987979	-84.632333	1145.50	6.00	1151.50
3	41.987982	-84.629157	1120.58	6.00	1126.58
4	41.986919	-84.629153	1149.61	6.00	1155.61
5	41.979420	-84.644327	1136.35	6.00	1142.35
6	41.979420	-84.645230	1133.67	6.00	1139.67
7	41.982618	-84.645705	1130.67	6.00	1136.67
8	41.983612	-84.645709	1135.37	6.00	1141.37

Name: Array 9-7
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.992919	-84.635798	1130.18	6.00	1136.18
2	41.992991	-84.639344	1119.75	6.00	1125.75
3	41.993972	-84.637106	1143.33	6.00	1149.33
4	41.994320	-84.636300	1123.84	6.00	1129.84
5	41.994325	-84.635215	1125.34	6.00	1131.34
6	41.993183	-84.635215	1131.63	6.00	1137.63
7	41.992919	-84.635798	1130.18	6.00	1136.18

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

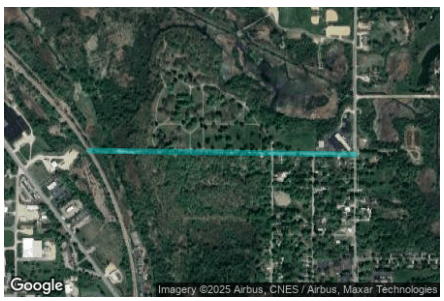
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

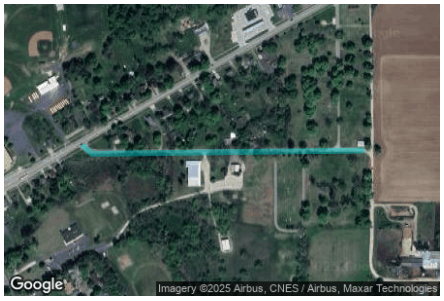
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

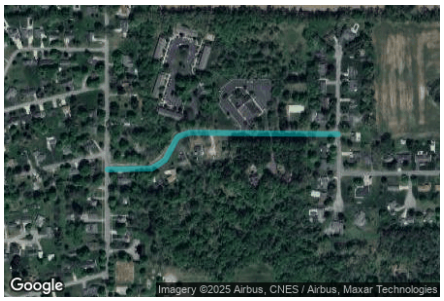
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Name: Obstruction 3
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.987821	-84.651121	1130.94
2	41.988296	-84.651035	1126.12
3	41.988511	-84.650558	1127.63

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 4-6	SA tracking	SA tracking	0	0	743,900.0	-
Array 4-7	SA tracking	SA tracking	3,647	0	861,200.0	-
Array 5-1	SA tracking	SA tracking	0	0	774,600.0	-
Array 6-1	SA tracking	SA tracking	0	0	766,600.0	-
Array 6-2	SA tracking	SA tracking	0	0	770,500.0	-
Array 6-3	SA tracking	SA tracking	0	0	767,200.0	-
Array 6-4	SA tracking	SA tracking	0	0	776,000.0	-
Array 7-1	SA tracking	SA tracking	0	0	782,600.0	-
Array 7-2	SA tracking	SA tracking	0	0	748,500.0	-
Array 7-3	SA tracking	SA tracking	0	0	759,300.0	-
Array 8-1	SA tracking	SA tracking	0	0	770,800.0	-
Array 8-2	SA tracking	SA tracking	2,851	0	809,300.0	-
Array 8-3	SA tracking	SA tracking	0	0	764,000.0	-
Array 9-1	SA tracking	SA tracking	0	0	776,000.0	-
Array 9-2	SA tracking	SA tracking	0	0	781,800.0	-
Array 9-3	SA tracking	SA tracking	0	0	770,600.0	-
Array 9-4	SA tracking	SA tracking	0	0	769,400.0	-
Array 9-5	SA tracking	SA tracking	0	0	765,500.0	-
Array 9-6	SA tracking	SA tracking	0	0	771,300.0	-
Array 9-7	SA tracking	SA tracking	0	0	717,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-4-7 (green)	867	610	16	0	0	0	0	0	0	391	837	868
array-4-7 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-8-2 (green)	862	163	0	0	0	0	0	0	0	34	666	1126
array-8-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 4-6 no glare found

Predicted energy output: 743,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-7 low potential for temporary after-image

Predicted energy output: 861,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	58	0
Route: Half Moon Lake Rd2	3589	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 4-7: OP 1

No glare found

Array 4-7: OP 2

No glare found

Array 4-7: OP 3
No glare found

Array 4-7: OP 4
No glare found

Array 4-7: OP 5
No glare found

Array 4-7: OP 6
No glare found

Array 4-7: OP 7
No glare found

Array 4-7: OP 8
No glare found

Array 4-7: OP 9
No glare found

Array 4-7: OP 10
No glare found

Array 4-7: OP 11
No glare found

Array 4-7: OP 12
No glare found

Array 4-7: OP 13
No glare found

Array 4-7: OP 14
No glare found

Array 4-7: OP 15
No glare found

Array 4-7: OP 16
No glare found

Array 4-7: OP 17
No glare found

Array 4-7: OP 18
No glare found

Array 4-7: OP 19
No glare found

Array 4-7: OP 20
No glare found

Array 4-7: OP 21
No glare found

Array 4-7: OP 22
No glare found

Array 4-7: OP 23
No glare found

Array 4-7: OP 24
No glare found

Array 4-7: OP 25
No glare found

Array 4-7: OP 26
No glare found

Array 4-7: OP 27
No glare found

Array 4-7: OP 28
No glare found

Array 4-7: OP 29
No glare found

Array 4-7: OP 30
No glare found

Array 4-7: OP 31
No glare found

Array 4-7: OP 32
No glare found

Array 4-7: OP 33
No glare found

Array 4-7: OP 34
No glare found

Array 4-7: OP 35
No glare found

Array 4-7: OP 36
No glare found

Array 4-7: OP 37
No glare found

Array 4-7: OP 38
No glare found

Array 4-7: OP 39
No glare found

Array 4-7: OP 40
No glare found

Array 4-7: OP 41
No glare found

Array 4-7: OP 42
No glare found

Array 4-7: OP 43
No glare found

Array 4-7: OP 44
No glare found

Array 4-7: OP 45
No glare found

Array 4-7: OP 46
No glare found

Array 4-7: OP 47
No glare found

Array 4-7: OP 48

No glare found

Array 4-7: OP 49

No glare found

Array 4-7: OP 50

No glare found

Array 4-7: Ball Rd

No glare found

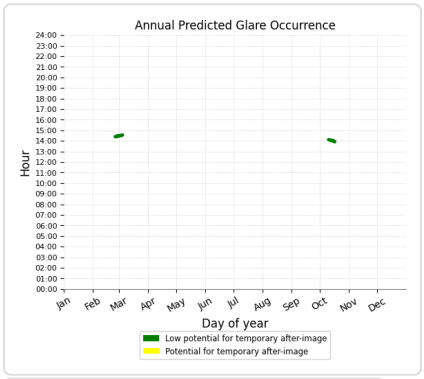
Array 4-7: E Chicago Rd

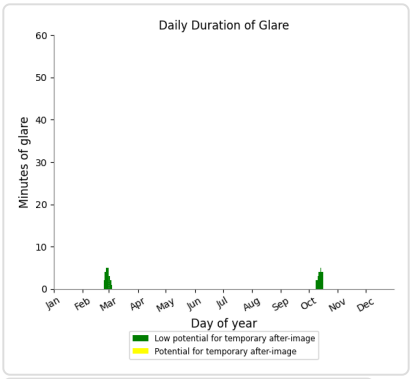
No glare found

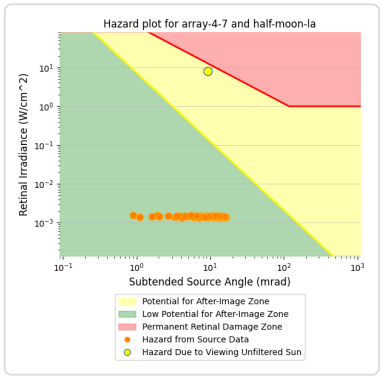
Array 4-7: Half Moon Lake Rd

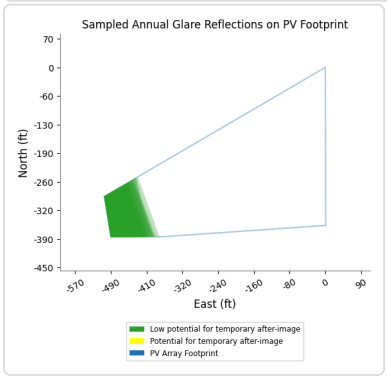
PV array is expected to produce the following glare for this receptor:

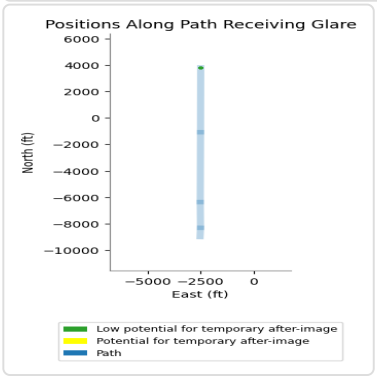
- 58 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.







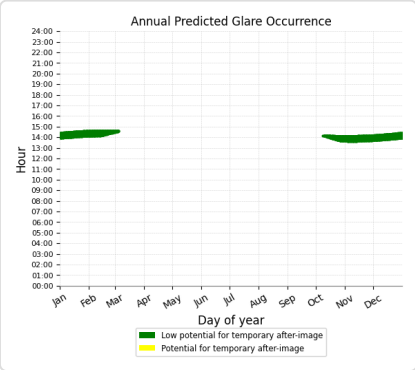


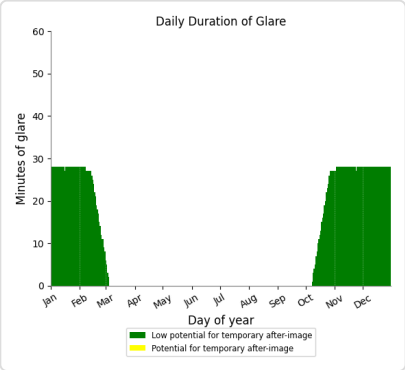


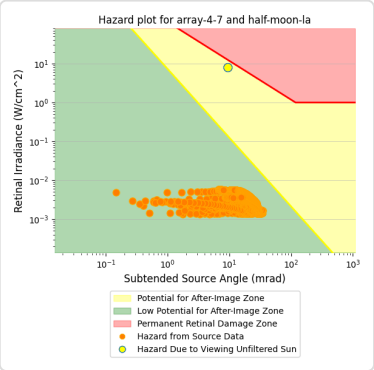
Array 4-7: Half Moon Lake Rd2

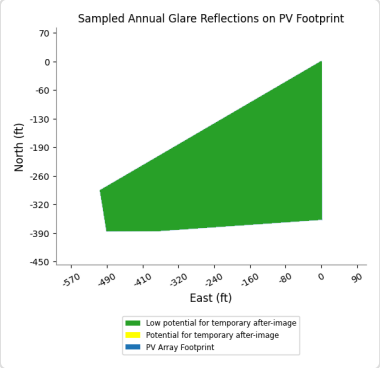
PV array is expected to produce the following glare for this receptor:

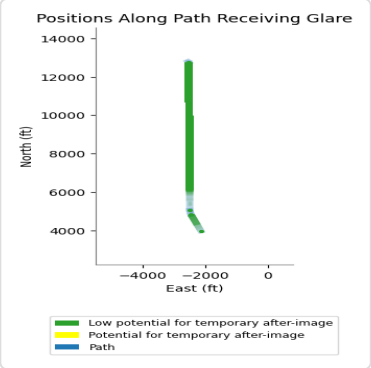
- 3,589 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 4-7: Homer Rd

No glare found

Array 4-7: Mauck Rd

No glare found

Array 4-7: Milnes Rd

No glare found

Array 4-7: Montgomery St

No glare found

Array 4-7: Moore Rd E

No glare found

Array 4-7: N Adams Rd

No glare found

Array 4-7: N Hillsdale Rd

No glare found

Array 4-7: Oak St

No glare found

Array 4-7: Parkwood Dr

No glare found

Array 4-7: Salem Dr

No glare found

Array 4-7: White Rd

No glare found

Array 5-1 no glare found

Predicted energy output: 774,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-1 no glare found

Predicted energy output: 766,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-2 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-3 no glare found

Predicted energy output: 767,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-4 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-1 no glare found

Predicted energy output: 782,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-2 no glare found

Predicted energy output: 748,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-3 no glare found

Predicted energy output: 759,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-1 no glare found

Predicted energy output: 770,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-2 low potential for temporary after-image

Predicted energy output: 809,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	2851	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 8-2: OP 1

No glare found

Array 8-2: OP 2

No glare found

Array 8-2: OP 3
No glare found

Array 8-2: OP 4
No glare found

Array 8-2: OP 5
No glare found

Array 8-2: OP 6
No glare found

Array 8-2: OP 7
No glare found

Array 8-2: OP 8
No glare found

Array 8-2: OP 9
No glare found

Array 8-2: OP 10
No glare found

Array 8-2: OP 11
No glare found

Array 8-2: OP 12
No glare found

Array 8-2: OP 13
No glare found

Array 8-2: OP 14
No glare found

Array 8-2: OP 15
No glare found

Array 8-2: OP 16
No glare found

Array 8-2: OP 17
No glare found

Array 8-2: OP 18
No glare found

Array 8-2: OP 19
No glare found

Array 8-2: OP 20
No glare found

Array 8-2: OP 21
No glare found

Array 8-2: OP 22
No glare found

Array 8-2: OP 23
No glare found

Array 8-2: OP 24
No glare found

Array 8-2: OP 25
No glare found

Array 8-2: OP 26
No glare found

Array 8-2: OP 27
No glare found

Array 8-2: OP 28
No glare found

Array 8-2: OP 29
No glare found

Array 8-2: OP 30
No glare found

Array 8-2: OP 31
No glare found

Array 8-2: OP 32
No glare found

Array 8-2: OP 33
No glare found

Array 8-2: OP 34
No glare found

Array 8-2: OP 35
No glare found

Array 8-2: OP 36
No glare found

Array 8-2: OP 37
No glare found

Array 8-2: OP 38
No glare found

Array 8-2: OP 39
No glare found

Array 8-2: OP 40
No glare found

Array 8-2: OP 41
No glare found

Array 8-2: OP 42
No glare found

Array 8-2: OP 43
No glare found

Array 8-2: OP 44
No glare found

Array 8-2: OP 45
No glare found

Array 8-2: OP 46
No glare found

Array 8-2: OP 47
No glare found

Array 8-2: OP 48

No glare found

Array 8-2: OP 49

No glare found

Array 8-2: OP 50

No glare found

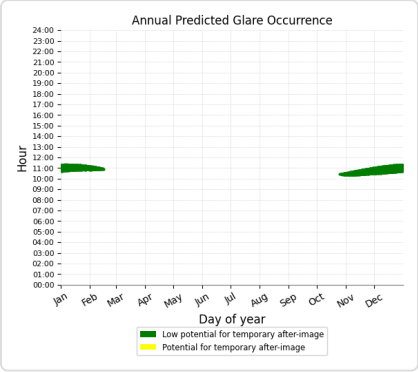
Array 8-2: Ball Rd

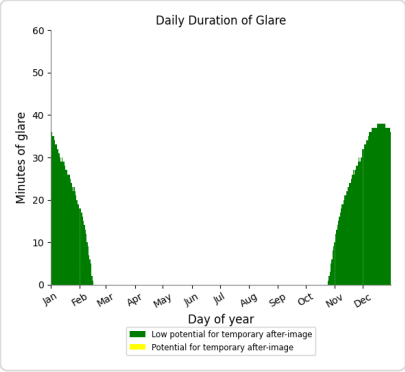
No glare found

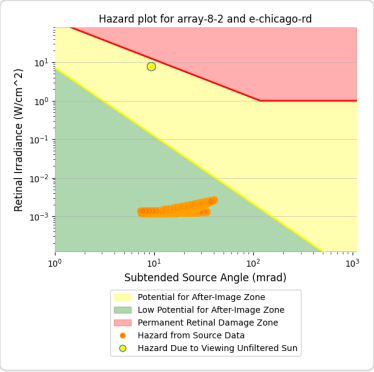
Array 8-2: E Chicago Rd

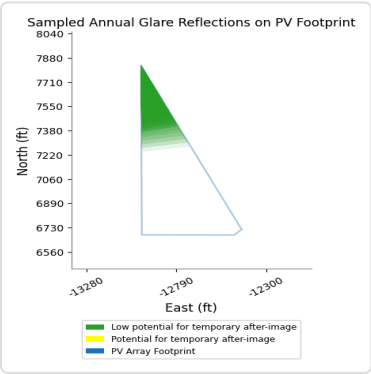
PV array is expected to produce the following glare for this receptor:

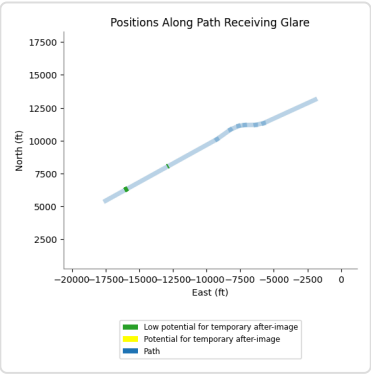
- 2,851 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 8-2: Half Moon Lake Rd

No glare found

Array 8-2: Half Moon Lake Rd2

No glare found

Array 8-2: Homer Rd

No glare found

Array 8-2: Mauck Rd
No glare found

Array 8-2: Milnes Rd
No glare found

Array 8-2: Montgomery St
No glare found

Array 8-2: Moore Rd E
No glare found

Array 8-2: N Adams Rd
No glare found

Array 8-2: N Hillsdale Rd
No glare found

Array 8-2: Oak St
No glare found

Array 8-2: Parkwood Dr
No glare found

Array 8-2: Salem Dr
No glare found

Array 8-2: White Rd
No glare found

Array 8-3 no glare found

Predicted energy output: 764,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-1 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-2 no glare found

Predicted energy output: 781,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-3 no glare found

Predicted energy output: 770,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-4 no glare found

Predicted energy output: 769,400.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-5 no glare found

Predicted energy output: 765,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-6 no glare found

Predicted energy output: 771,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-7 no glare found

Predicted energy output: 717,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

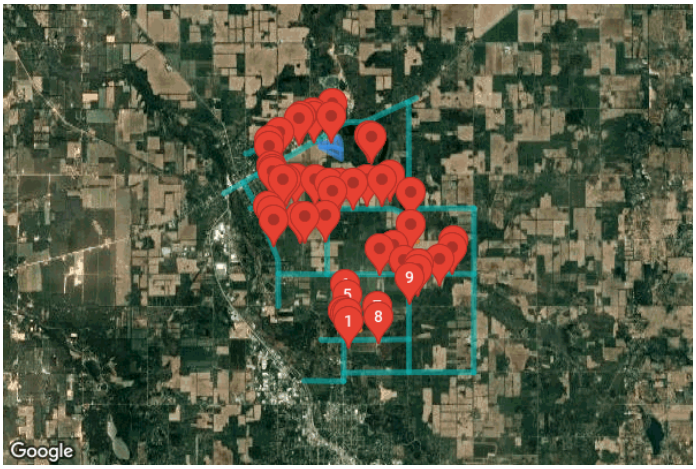
Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs wARC 3

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162941.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 9-10	SA tracking	SA tracking	0	0	781,300.0
Array 9-8	SA tracking	SA tracking	0	0	773,900.0
Array 9-9	SA tracking	SA tracking	0	0	725,300.0

Component Data

PV Array(s)

Total PV footprint area: 38.1 acres

Name: Array 9-10
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.991823	-84.634487	1126.53	6.00	1132.53
3	41.992367	-84.634487	1126.43	6.00	1132.43
4	41.993176	-84.634443	1128.92	6.00	1134.92
5	41.993986	-84.634138	1122.44	6.00	1128.44
6	41.993989	-84.633097	1118.75	6.00	1124.75
7	41.993177	-84.632580	1115.26	6.00	1121.26
8	41.992364	-84.632350	1127.60	6.00	1133.60
9	41.991192	-84.632345	1126.47	6.00	1132.47

Name: Array 9-8
Footprint area: 8.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991816	-84.635788	1138.98	6.00	1144.98
2	41.991653	-84.638587	1125.38	6.00	1131.38
3	41.992991	-84.639344	1119.75	6.00	1125.75
4	41.992919	-84.635798	1130.18	6.00	1136.18
5	41.991816	-84.635788	1138.98	6.00	1144.98

Name: Array 9-9
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.991653	-84.638587	1125.38	6.00	1131.38
4	41.991816	-84.635788	1138.98	6.00	1144.98
5	41.991823	-84.634487	1126.53	6.00	1132.53
6	41.991192	-84.632345	1126.47	6.00	1132.47

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

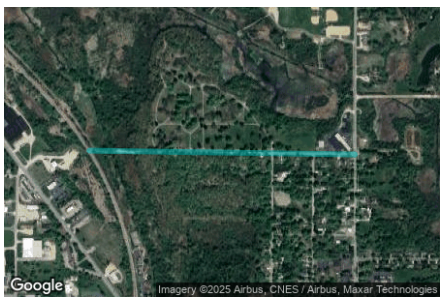
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

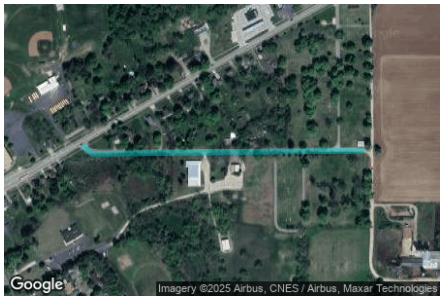
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

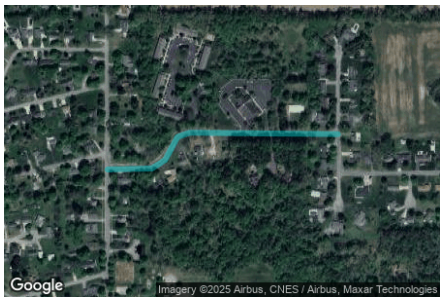
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 9-10	SA tracking	SA tracking	0	0	781,300.0	-
Array 9-8	SA tracking	SA tracking	0	0	773,900.0	-
Array 9-9	SA tracking	SA tracking	0	0	725,300.0	-

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 9-10 no glare found

Predicted energy output: 781,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-8 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-9 no glare found

Predicted energy output: 725,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs woARC 1

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162912.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 1-1	SA tracking	SA tracking	0	0	770,500.0
Array 1-2	SA tracking	SA tracking	338	0	793,300.0
Array 1-3	SA tracking	SA tracking	656	0	825,000.0
Array 1-4	SA tracking	SA tracking	3,859	17	833,300.0
Array 2-1	SA tracking	SA tracking	0	0	787,200.0
Array 2-2	SA tracking	SA tracking	0	0	773,900.0
Array 2-3	SA tracking	SA tracking	0	0	777,600.0
Array 2-4	SA tracking	SA tracking	0	0	758,800.0
Array 2-5	SA tracking	SA tracking	0	0	756,800.0
Array 2-6	SA tracking	SA tracking	0	0	762,100.0
Array 3-1	SA tracking	SA tracking	0	0	779,900.0
Array 3-2	SA tracking	SA tracking	0	0	758,000.0
Array 3-3	SA tracking	SA tracking	0	0	771,000.0
Array 3-4	SA tracking	SA tracking	0	0	782,700.0
Array 3-5	SA tracking	SA tracking	0	0	774,200.0
Array 4-1	SA tracking	SA tracking	0	0	767,700.0
Array 4-2	SA tracking	SA tracking	0	0	767,900.0
Array 4-3	SA tracking	SA tracking	0	0	782,700.0
Array 4-4	SA tracking	SA tracking	0	0	761,100.0
Array 4-5	SA tracking	SA tracking	0	0	755,000.0

Component Data

PV Array(s)

Total PV footprint area: 207.0 acres

Name: Array 1-1
Footprint area: 24.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949205	-84.630406	1109.74	6.00	1115.74
2	41.950912	-84.627317	1106.32	6.00	1112.32
3	41.950940	-84.622436	1085.16	6.00	1091.16
4	41.949251	-84.622429	1097.13	6.00	1103.13
5	41.949205	-84.630406	1109.74	6.00	1115.74

Name: Array 1-2
Footprint area: 7.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

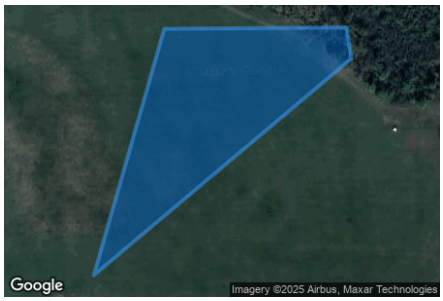
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951479	-84.629682	1106.34	6.00	1112.34
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.949456	-84.631168	1109.41	6.00	1115.41
4	41.952283	-84.631180	1094.93	6.00	1100.93
5	41.952292	-84.629685	1079.44	6.00	1085.44
6	41.951479	-84.629682	1106.34	6.00	1112.34

Name: Array 1-3
Footprint area: 5.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.951236	-84.627609	1098.14	6.00	1104.14
2	41.949460	-84.630461	1109.29	6.00	1115.29
3	41.951479	-84.629682	1106.34	6.00	1112.34
4	41.951491	-84.627665	1076.24	6.00	1082.24
5	41.951236	-84.627609	1098.14	6.00	1104.14



Name: Array 1-4
Footprint area: 2.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

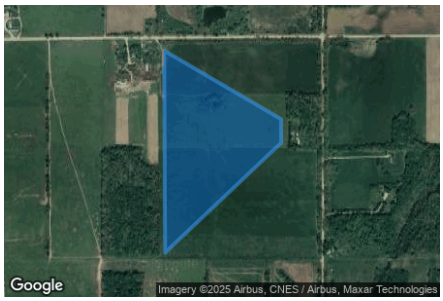
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.950912	-84.627317	1106.32	6.00	1112.32
2	41.949205	-84.630406	1109.74	6.00	1115.74
3	41.949460	-84.630461	1109.29	6.00	1115.29
4	41.951236	-84.627609	1098.14	6.00	1104.14
5	41.951237	-84.627318	1077.99	6.00	1083.99
6	41.950912	-84.627317	1106.32	6.00	1112.32

Name: Array 2-1
Footprint area: 43.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960158	-84.614096	1168.72	6.00	1174.72
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.963178	-84.619285	1151.82	6.00	1157.82
4	41.960930	-84.614099	1150.39	6.00	1156.39
5	41.960158	-84.614096	1168.72	6.00	1174.72



Name: Array 2-2
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962284	-84.613998	1136.69	6.00	1142.69
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.963208	-84.612597	1124.72	6.00	1130.72
4	41.962290	-84.612602	1133.03	6.00	1139.03
5	41.962284	-84.613998	1136.69	6.00	1142.69

Name: Array 2-3
Footprint area: 8.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960930	-84.614099	1150.39	6.00	1156.39
2	41.963178	-84.619285	1151.82	6.00	1157.82
3	41.962284	-84.613998	1136.69	6.00	1142.69
4	41.961258	-84.613987	1145.76	6.00	1151.76
5	41.960930	-84.614099	1150.39	6.00	1156.39

Name: Array 2-4
Footprint area: 11.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.956554	-84.619241	1152.14	6.00	1158.14
3	41.960158	-84.614096	1168.72	6.00	1174.72
4	41.959789	-84.613911	1174.02	6.00	1180.02
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-5
Footprint area: 9.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.957527	-84.615291	1146.01	6.00	1152.01
2	41.959789	-84.613911	1174.02	6.00	1180.02
3	41.959794	-84.612705	1158.37	6.00	1164.37
4	41.957533	-84.612697	1137.11	6.00	1143.11
5	41.957527	-84.615291	1146.01	6.00	1152.01

Name: Array 2-6
Footprint area: 4.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.956554	-84.619241	1152.14	6.00	1158.14
2	41.957527	-84.615291	1146.01	6.00	1152.01
3	41.956575	-84.615287	1137.71	6.00	1143.71
4	41.956554	-84.619241	1152.14	6.00	1158.14

Name: Array 3-1
Footprint area: 13.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960125	-84.612001	1141.66	6.00	1147.66
2	41.962778	-84.611186	1108.50	6.00	1114.50
3	41.962784	-84.609783	1110.84	6.00	1116.84
4	41.960976	-84.609172	1138.99	6.00	1144.99
5	41.960137	-84.609220	1143.78	6.00	1149.78
6	41.960125	-84.612001	1141.66	6.00	1147.66

Name: Array 3-2
Footprint area: 0.66 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961269	-84.608152	1121.08	6.00	1127.08
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961198	-84.607865	1114.31	6.00	1120.31
4	41.961197	-84.608152	1119.60	6.00	1125.60
5	41.961269	-84.608152	1121.08	6.00	1127.08

Name: Array 3-3
Footprint area: 0.25 acre
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.961382	-84.608248	1124.44	6.00	1130.44
2	41.963227	-84.607873	1104.33	6.00	1110.33
3	41.961269	-84.608152	1121.08	6.00	1127.08
4	41.961382	-84.608248	1124.44	6.00	1130.44

Name: Array 3-4
Footprint area: 7.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.960976	-84.609172	1138.99	6.00	1144.99
2	41.962784	-84.609783	1110.84	6.00	1116.84
3	41.963223	-84.609784	1106.63	6.00	1112.63
4	41.963227	-84.607873	1104.33	6.00	1110.33
5	41.961382	-84.608248	1124.44	6.00	1130.44
6	41.960976	-84.609172	1138.99	6.00	1144.99

Name: Array 3-5
Footprint area: 3.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.962778	-84.611186	1108.50	6.00	1114.50
2	41.960125	-84.612001	1141.66	6.00	1147.66
3	41.963210	-84.611984	1117.50	6.00	1123.50
4	41.963213	-84.611201	1106.02	6.00	1112.02
5	41.962778	-84.611186	1108.50	6.00	1114.50

Name: Array 4-1
Footprint area: 16.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.967691	-84.605473	1126.22	6.00	1132.22
3	41.968748	-84.605477	1126.71	6.00	1132.71
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.966592	-84.602774	1110.33	6.00	1116.33
6	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-2
Footprint area: 28.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

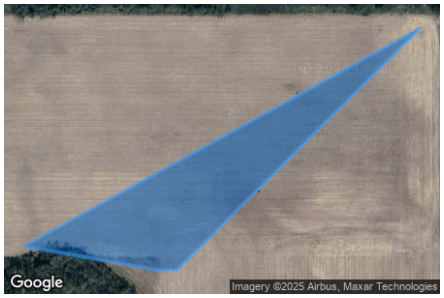
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968942	-84.607166	1128.02	6.00	1134.02
2	41.968927	-84.612047	1146.74	6.00	1152.74
3	41.970703	-84.612059	1158.00	6.00	1164.00
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968942	-84.607166	1128.02	6.00	1134.02

Name: Array 4-3
Footprint area: 4.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

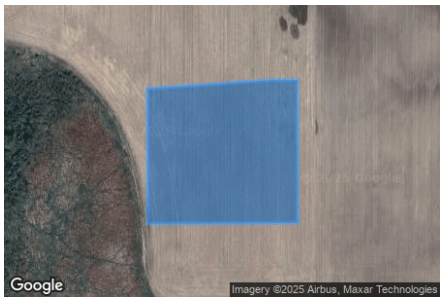
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.968748	-84.605477	1126.71	6.00	1132.71
2	41.968747	-84.605705	1127.66	6.00	1133.66
3	41.968942	-84.607166	1128.02	6.00	1134.02
4	41.970740	-84.602789	1099.83	6.00	1105.83
5	41.968748	-84.605477	1126.71	6.00	1132.71



Name: Array 4-4
Footprint area: 4.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965525	-84.604431	1112.80	6.00	1118.80
2	41.965596	-84.603055	1109.79	6.00	1115.79
3	41.965597	-84.602770	1109.55	6.00	1115.55
4	41.964425	-84.602765	1111.32	6.00	1117.32
5	41.964418	-84.604427	1096.71	6.00	1102.71
6	41.965522	-84.604431	1112.80	6.00	1118.80
7	41.965525	-84.604431	1112.80	6.00	1118.80



Name: Array 4-5
Footprint area: 2.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966039	-84.605619	1106.68	6.00	1112.68
2	41.966034	-84.606832	1100.43	6.00	1106.43
3	41.966952	-84.606836	1116.73	6.00	1122.73
4	41.966959	-84.605566	1123.04	6.00	1129.04
5	41.966039	-84.605619	1106.68	6.00	1112.68

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

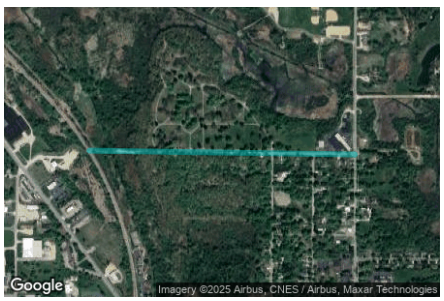
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

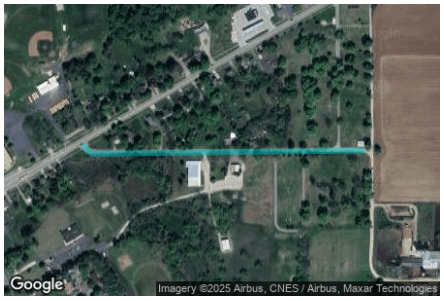
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

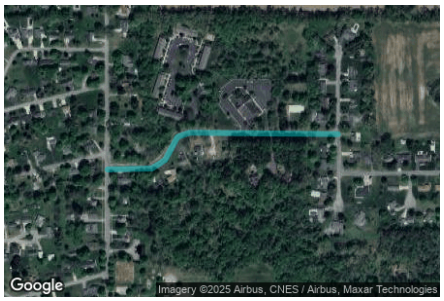
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 1-1	SA tracking	SA tracking	0	0	770,500.0	-
Array 1-2	SA tracking	SA tracking	338	0	793,300.0	-
Array 1-3	SA tracking	SA tracking	656	0	825,000.0	-
Array 1-4	SA tracking	SA tracking	3,859	17	833,300.0	-
Array 2-1	SA tracking	SA tracking	0	0	787,200.0	-
Array 2-2	SA tracking	SA tracking	0	0	773,900.0	-
Array 2-3	SA tracking	SA tracking	0	0	777,600.0	-
Array 2-4	SA tracking	SA tracking	0	0	758,800.0	-
Array 2-5	SA tracking	SA tracking	0	0	756,800.0	-
Array 2-6	SA tracking	SA tracking	0	0	762,100.0	-
Array 3-1	SA tracking	SA tracking	0	0	779,900.0	-
Array 3-2	SA tracking	SA tracking	0	0	758,000.0	-
Array 3-3	SA tracking	SA tracking	0	0	771,000.0	-
Array 3-4	SA tracking	SA tracking	0	0	782,700.0	-
Array 3-5	SA tracking	SA tracking	0	0	774,200.0	-
Array 4-1	SA tracking	SA tracking	0	0	767,700.0	-
Array 4-2	SA tracking	SA tracking	0	0	767,900.0	-
Array 4-3	SA tracking	SA tracking	0	0	782,700.0	-
Array 4-4	SA tracking	SA tracking	0	0	761,100.0	-
Array 4-5	SA tracking	SA tracking	0	0	755,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-1-2 (green)	106	0	0	0	0	0	0	0	0	0	56	176
array-1-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-3 (green)	84	0	0	0	0	0	0	0	0	0	16	307
array-1-3 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-1-4 (green)	492	0	0	0	0	0	0	0	0	0	239	796
array-1-4 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 1-1 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 1-2 low potential for temporary after-image

Predicted energy output: 793,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	338	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 1-2: OP 1

No glare found

Array 1-2: OP 2

No glare found

Array 1-2: OP 3
No glare found

Array 1-2: OP 4
No glare found

Array 1-2: OP 5
No glare found

Array 1-2: OP 6
No glare found

Array 1-2: OP 7
No glare found

Array 1-2: OP 8
No glare found

Array 1-2: OP 9
No glare found

Array 1-2: OP 10
No glare found

Array 1-2: OP 11
No glare found

Array 1-2: OP 12
No glare found

Array 1-2: OP 13
No glare found

Array 1-2: OP 14
No glare found

Array 1-2: OP 15
No glare found

Array 1-2: OP 16
No glare found

Array 1-2: OP 17
No glare found

Array 1-2: OP 18
No glare found

Array 1-2: OP 19
No glare found

Array 1-2: OP 20
No glare found

Array 1-2: OP 21
No glare found

Array 1-2: OP 22
No glare found

Array 1-2: OP 23
No glare found

Array 1-2: OP 24
No glare found

Array 1-2: OP 25
No glare found

Array 1-2: OP 26
No glare found

Array 1-2: OP 27
No glare found

Array 1-2: OP 28
No glare found

Array 1-2: OP 29
No glare found

Array 1-2: OP 30
No glare found

Array 1-2: OP 31
No glare found

Array 1-2: OP 32
No glare found

Array 1-2: OP 33
No glare found

Array 1-2: OP 34
No glare found

Array 1-2: OP 35
No glare found

Array 1-2: OP 36
No glare found

Array 1-2: OP 37
No glare found

Array 1-2: OP 38
No glare found

Array 1-2: OP 39
No glare found

Array 1-2: OP 40
No glare found

Array 1-2: OP 41
No glare found

Array 1-2: OP 42
No glare found

Array 1-2: OP 43
No glare found

Array 1-2: OP 44
No glare found

Array 1-2: OP 45
No glare found

Array 1-2: OP 46
No glare found

Array 1-2: OP 47
No glare found

Array 1-2: OP 48
No glare found

Array 1-2: OP 49
No glare found

Array 1-2: OP 50
No glare found

Array 1-2: Ball Rd
No glare found

Array 1-2: E Chicago Rd
No glare found

Array 1-2: Half Moon Lake Rd
No glare found

Array 1-2: Half Moon Lake Rd2
No glare found

Array 1-2: Homer Rd
No glare found

Array 1-2: Mauck Rd
No glare found

Array 1-2: Milnes Rd
No glare found

Array 1-2: Montgomery St
No glare found

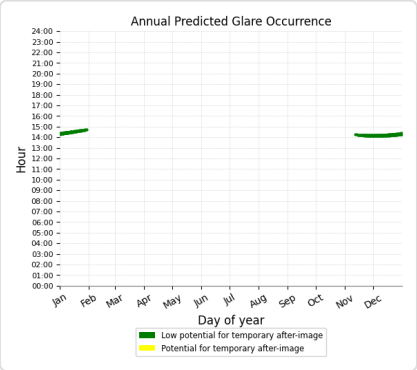
Array 1-2: Moore Rd E
No glare found

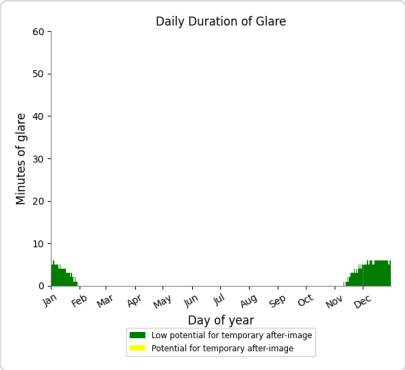
Array 1-2: N Adams Rd
No glare found

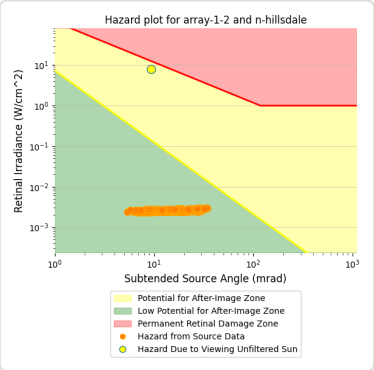
Array 1-2: N Hillsdale Rd

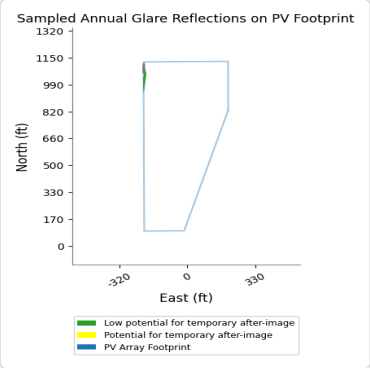
PV array is expected to produce the following glare for this receptor:

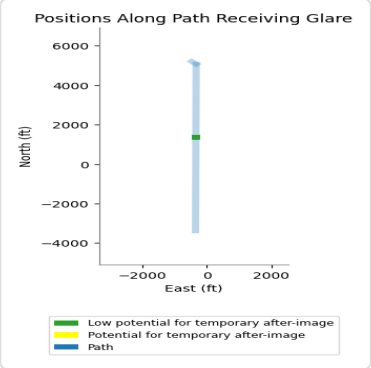
- 338 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-2: Oak St

No glare found

Array 1-2: Parkwood Dr

No glare found

Array 1-2: Salem Dr

No glare found

Array 1-2: White Rd

No glare found

Array 1-3 low potential for temporary after-image

Predicted energy output: 825,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0

OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	51	0
OP: OP 21	34	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	68	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	68	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0

Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	322	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	113	0

Array 1-3: OP 1

No glare found

Array 1-3: OP 2

No glare found

Array 1-3: OP 3

No glare found

Array 1-3: OP 4

No glare found

Array 1-3: OP 5

No glare found

Array 1-3: OP 6

No glare found

Array 1-3: OP 7

No glare found

Array 1-3: OP 8

No glare found

Array 1-3: OP 9

No glare found

Array 1-3: OP 10

No glare found

Array 1-3: OP 11

No glare found

Array 1-3: OP 12

No glare found

Array 1-3: OP 13

No glare found

Array 1-3: OP 14

No glare found

Array 1-3: OP 15

No glare found

Array 1-3: OP 16

No glare found

Array 1-3: OP 17

No glare found

Array 1-3: OP 18

No glare found

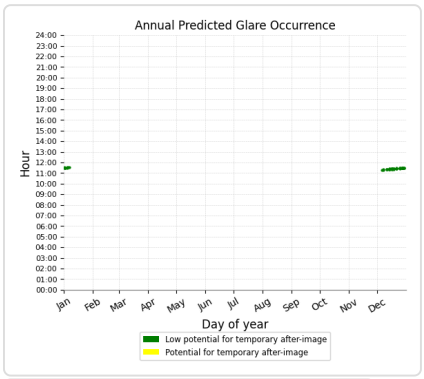
Array 1-3: OP 19

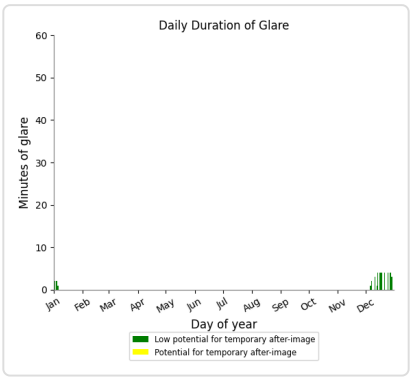
No glare found

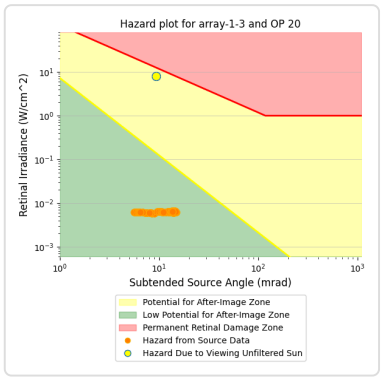
Array 1-3: OP 20

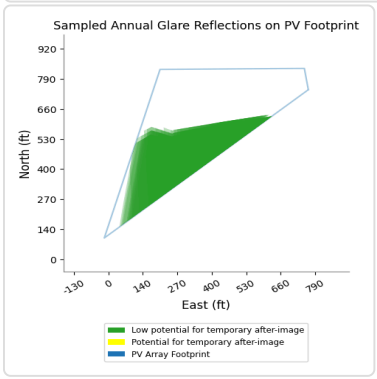
PV array is expected to produce the following glare for this receptor:

- 51 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





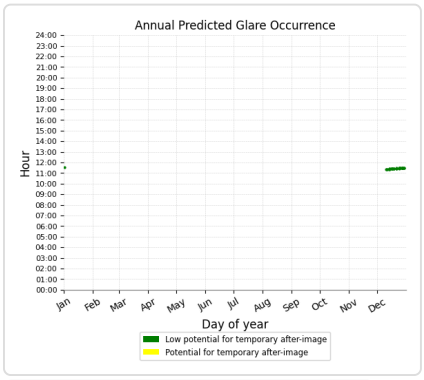


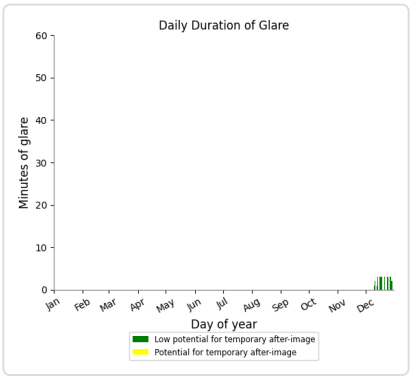


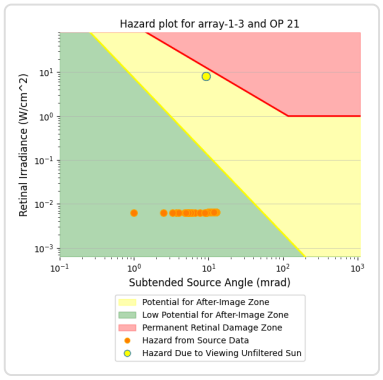
Array 1-3: OP 21

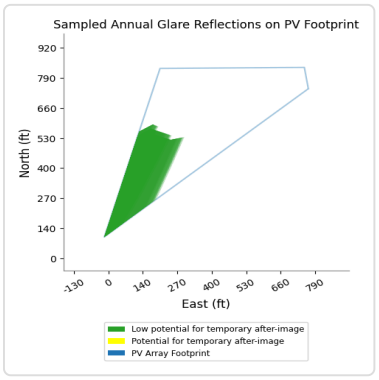
PV array is expected to produce the following glare for this receptor:

- 34 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-3: OP 22

No glare found

Array 1-3: OP 23

No glare found

Array 1-3: OP 24

No glare found

Array 1-3: OP 25

No glare found

Array 1-3: OP 26

No glare found

Array 1-3: OP 27

No glare found

Array 1-3: OP 28

No glare found

Array 1-3: OP 29

No glare found

Array 1-3: OP 30
No glare found

Array 1-3: OP 31
No glare found

Array 1-3: OP 32
No glare found

Array 1-3: OP 33
No glare found

Array 1-3: OP 34
No glare found

Array 1-3: OP 35
No glare found

Array 1-3: OP 36
No glare found

Array 1-3: OP 37
No glare found

Array 1-3: OP 38
No glare found

Array 1-3: OP 39
No glare found

Array 1-3: OP 40
No glare found

Array 1-3: OP 41
No glare found

Array 1-3: OP 42
No glare found

Array 1-3: OP 43
No glare found

Array 1-3: OP 44
No glare found

Array 1-3: OP 45

No glare found

Array 1-3: OP 46

No glare found

Array 1-3: OP 47

No glare found

Array 1-3: OP 48

No glare found

Array 1-3: OP 49

No glare found

Array 1-3: OP 50

No glare found

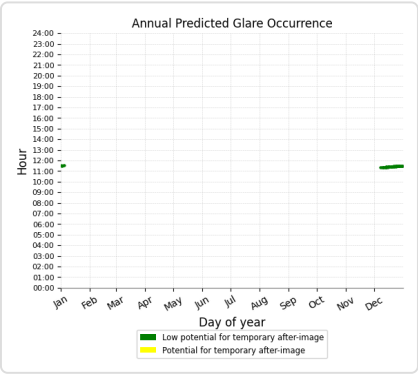
Array 1-3: Ball Rd

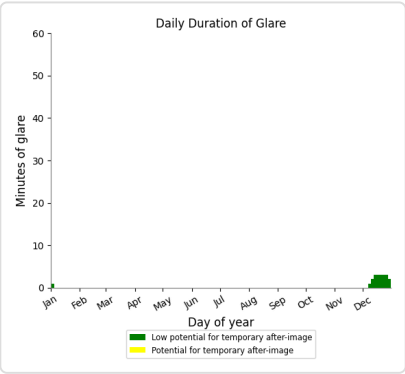
No glare found

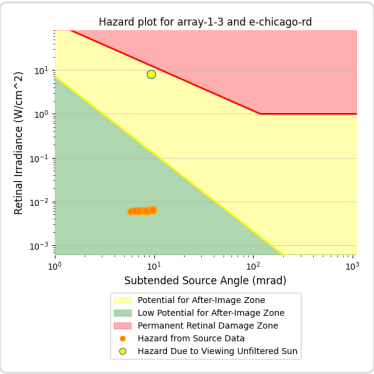
Array 1-3: E Chicago Rd

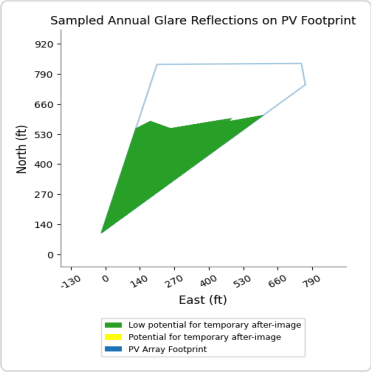
PV array is expected to produce the following glare for this receptor:

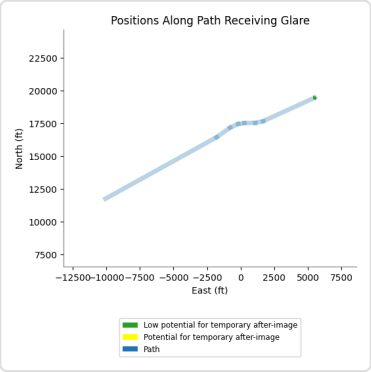
- 68 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











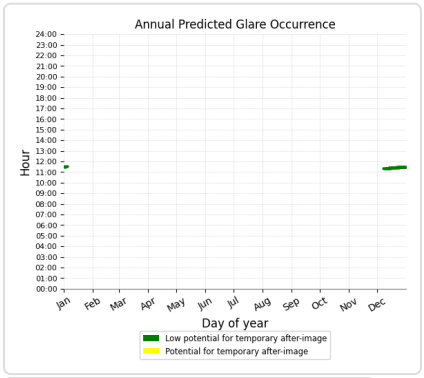
Array 1-3: Half Moon Lake Rd

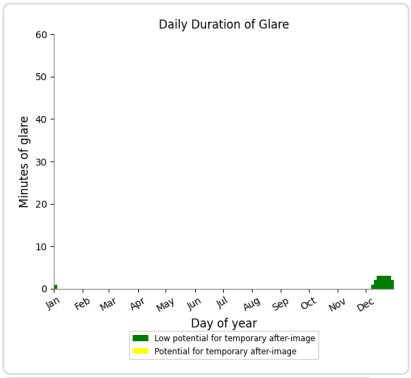
No glare found

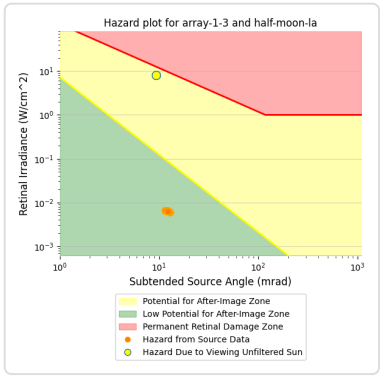
Array 1-3: Half Moon Lake Rd2

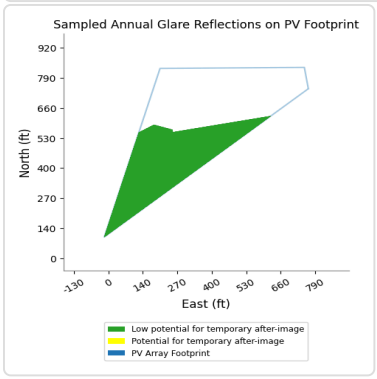
PV array is expected to produce the following glare for this receptor:

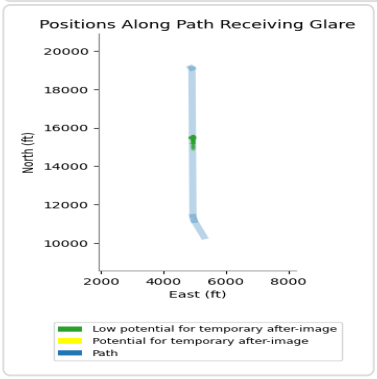
- 68 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Homer Rd

No glare found

Array 1-3: Mauck Rd

No glare found

Array 1-3: Milnes Rd

No glare found

Array 1-3: Montgomery St

No glare found

Array 1-3: Moore Rd E

No glare found

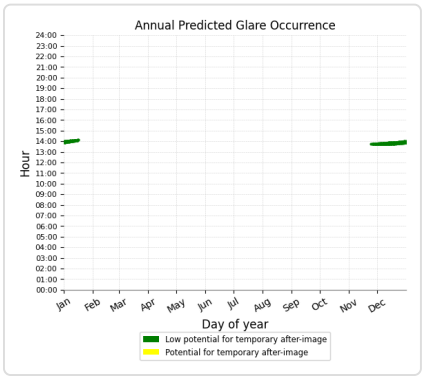
Array 1-3: N Adams Rd

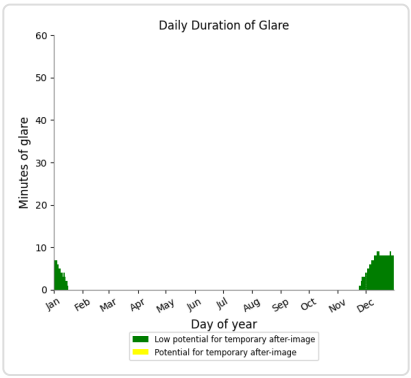
No glare found

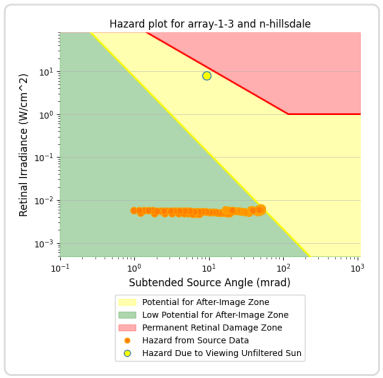
Array 1-3: N Hillsdale Rd

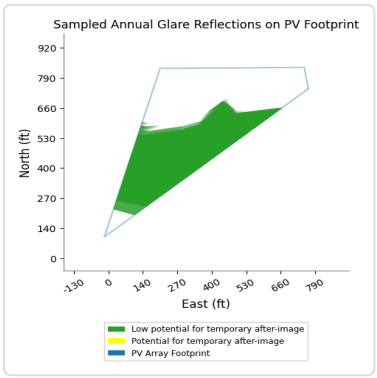
PV array is expected to produce the following glare for this receptor:

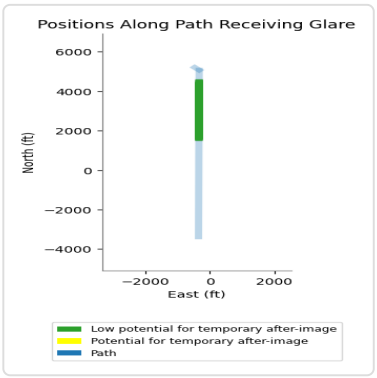
- 322 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-3: Oak St

No glare found

Array 1-3: Parkwood Dr

No glare found

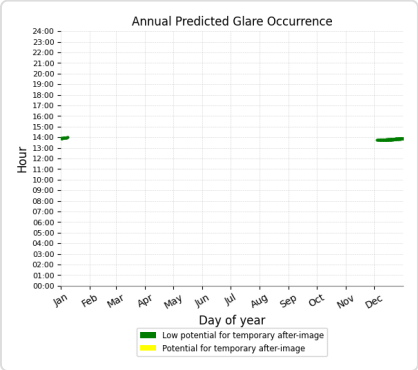
Array 1-3: Salem Dr

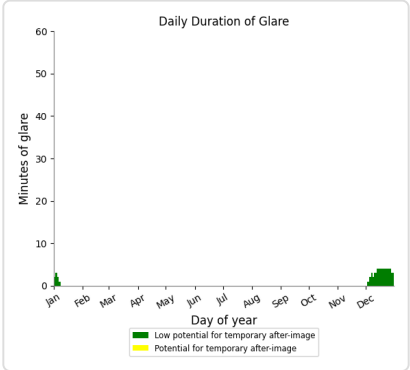
No glare found

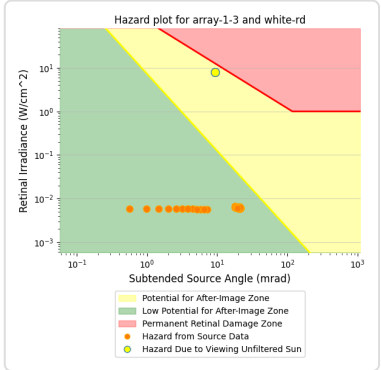
Array 1-3: White Rd

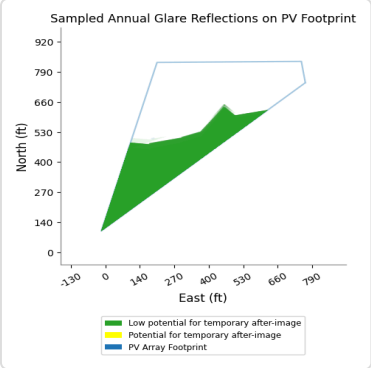
PV array is expected to produce the following glare for this receptor:

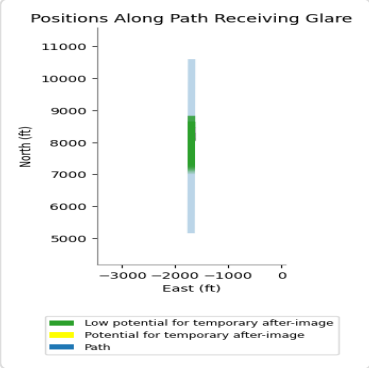
- 113 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4 potential temporary after-image

Predicted energy output: 833,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	18	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	201	0
OP: OP 21	163	0

OP: OP 22	0	0
OP: OP 23	17	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	29	0
OP: OP 27	151	0
OP: OP 28	166	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	134	0
OP: OP 44	134	0
OP: OP 45	28	0
OP: OP 46	29	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	656	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	688	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	809	17
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	636	0

Array 1-4: OP 1

No glare found

Array 1-4: OP 2

No glare found

Array 1-4: OP 3

No glare found

Array 1-4: OP 4

No glare found

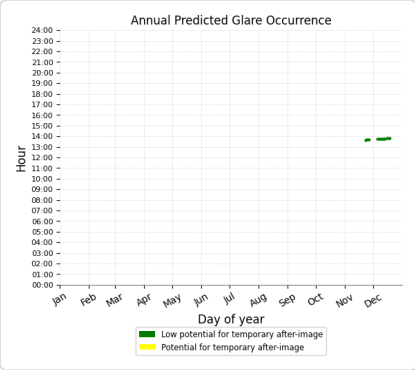
Array 1-4: OP 5

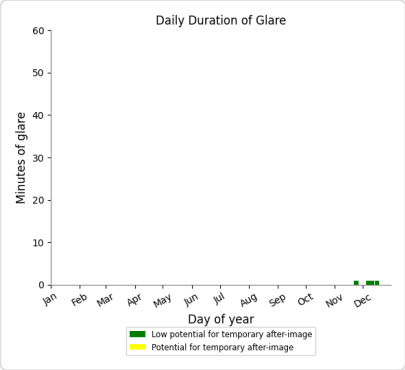
No glare found

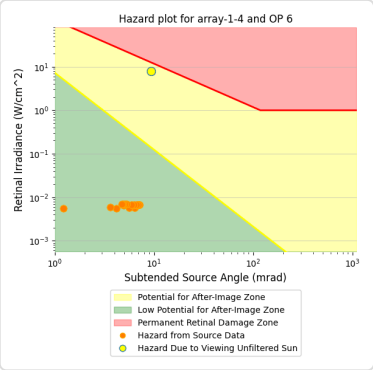
Array 1-4: OP 6

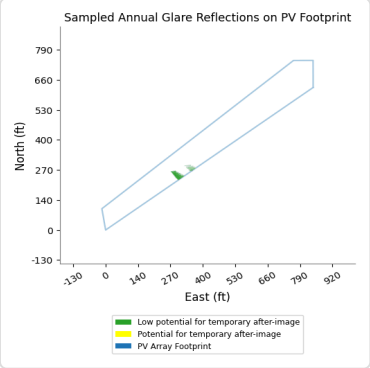
PV array is expected to produce the following glare for this receptor:

- 18 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 7

No glare found

Array 1-4: OP 8

No glare found

Array 1-4: OP 9

No glare found

Array 1-4: OP 10

No glare found

Array 1-4: OP 11
No glare found

Array 1-4: OP 12
No glare found

Array 1-4: OP 13
No glare found

Array 1-4: OP 14
No glare found

Array 1-4: OP 15
No glare found

Array 1-4: OP 16
No glare found

Array 1-4: OP 17
No glare found

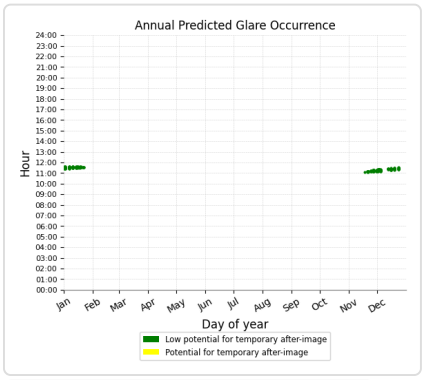
Array 1-4: OP 18
No glare found

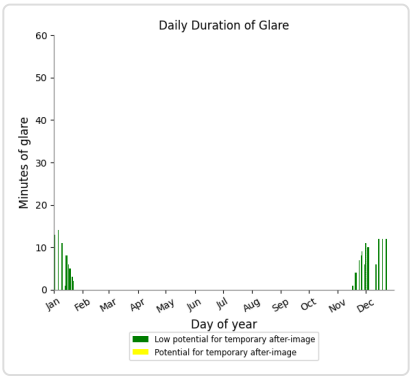
Array 1-4: OP 19
No glare found

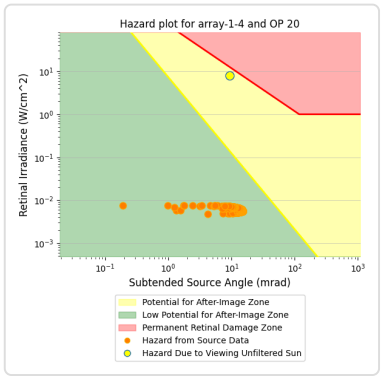
Array 1-4: OP 20

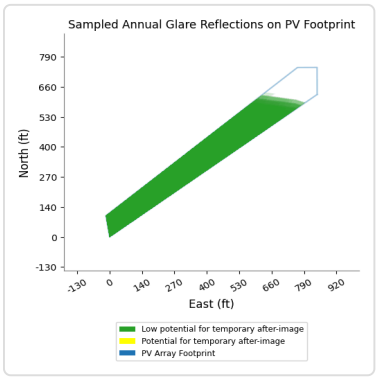
PV array is expected to produce the following glare for this receptor:

- 201 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





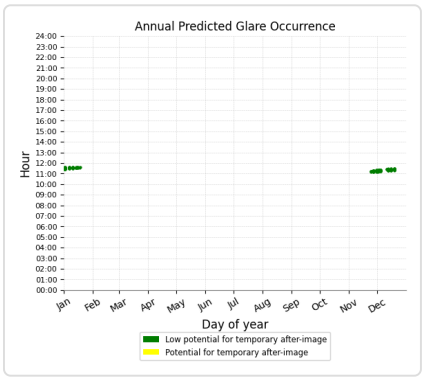


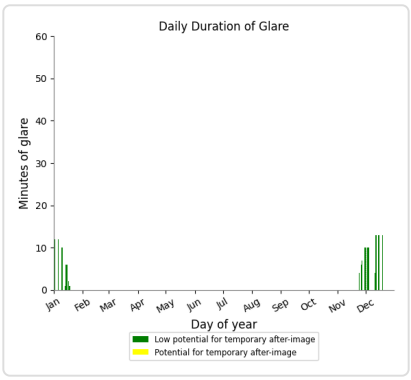


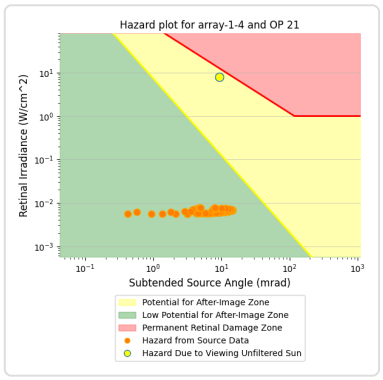
Array 1-4: OP 21

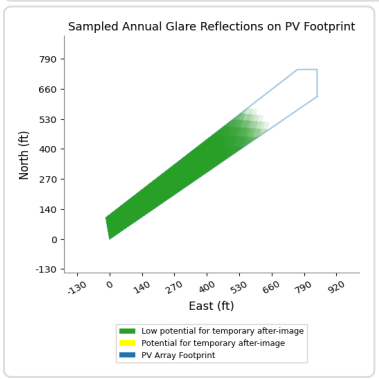
PV array is expected to produce the following glare for this receptor:

- 163 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









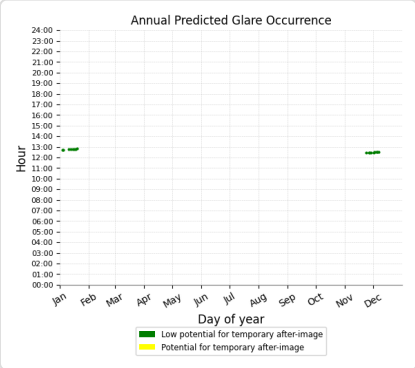
Array 1-4: OP 22

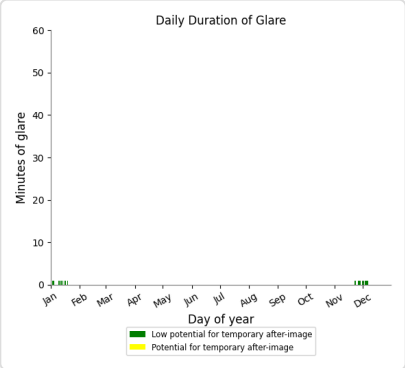
No glare found

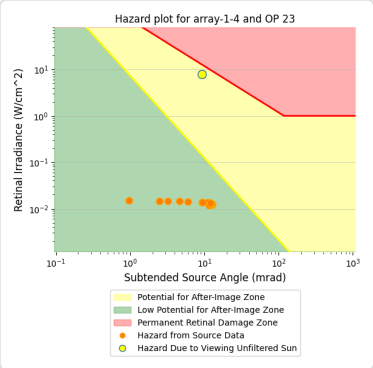
Array 1-4: OP 23

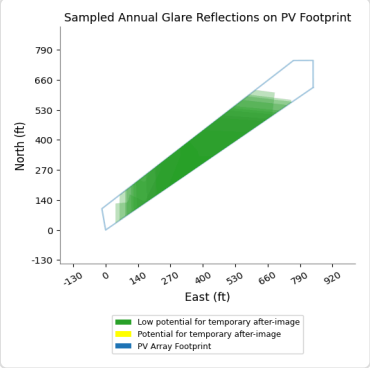
PV array is expected to produce the following glare for this receptor:

- 17 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 24

No glare found

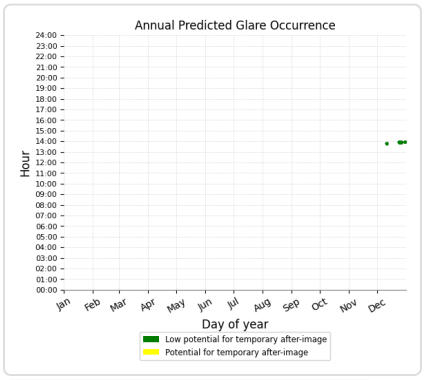
Array 1-4: OP 25

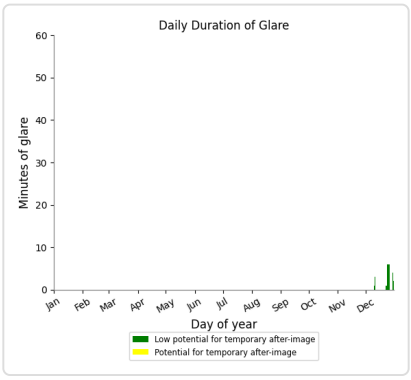
No glare found

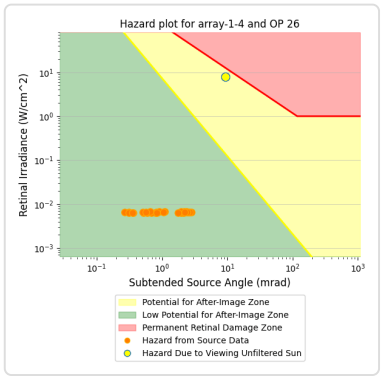
Array 1-4: OP 26

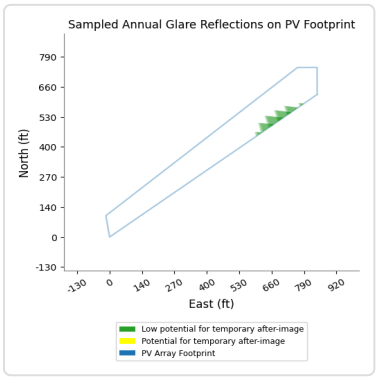
PV array is expected to produce the following glare for this receptor:

- 29 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





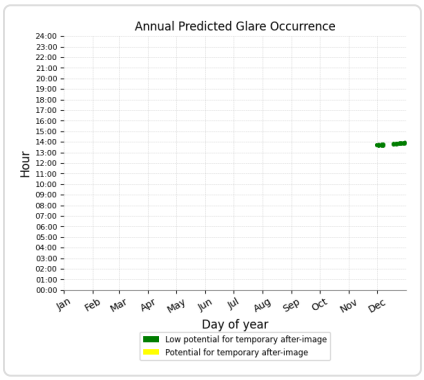


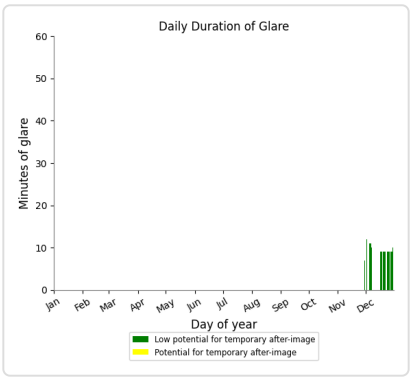


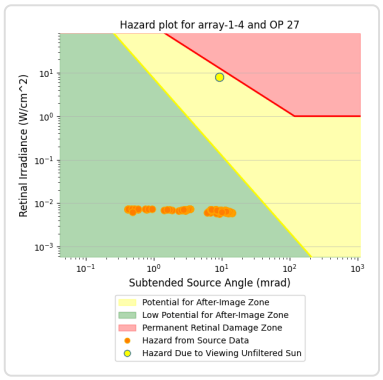
Array 1-4: OP 27

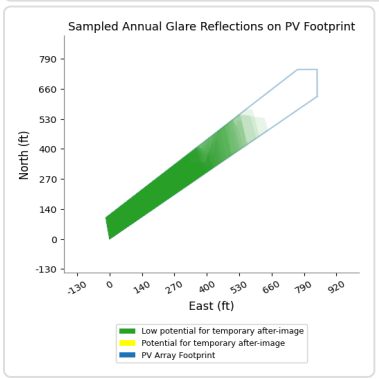
PV array is expected to produce the following glare for this receptor:

- 151 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





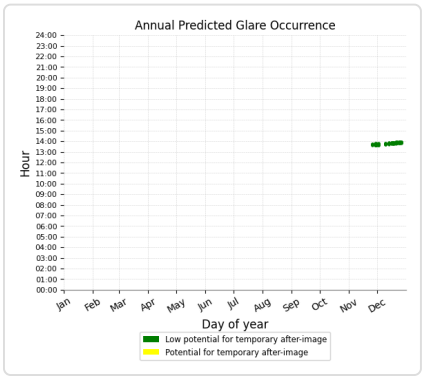


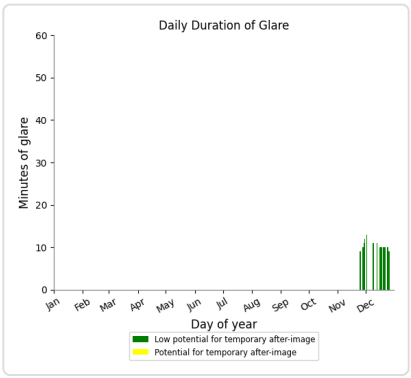


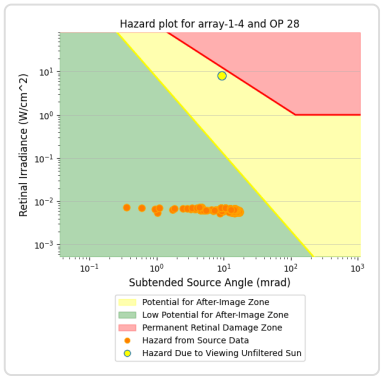
Array 1-4: OP 28

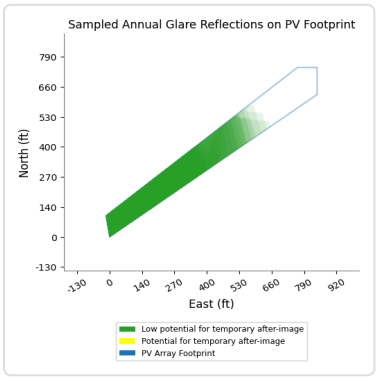
PV array is expected to produce the following glare for this receptor:

- 166 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 29

No glare found

Array 1-4: OP 30

No glare found

Array 1-4: OP 31

No glare found

Array 1-4: OP 32

No glare found

Array 1-4: OP 33

No glare found

Array 1-4: OP 34

No glare found

Array 1-4: OP 35

No glare found

Array 1-4: OP 36

No glare found

Array 1-4: OP 37

No glare found

Array 1-4: OP 38

No glare found

Array 1-4: OP 39

No glare found

Array 1-4: OP 40

No glare found

Array 1-4: OP 41

No glare found

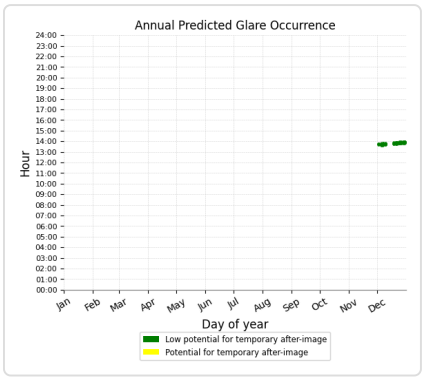
Array 1-4: OP 42

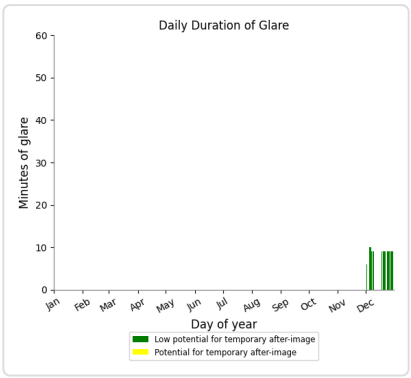
No glare found

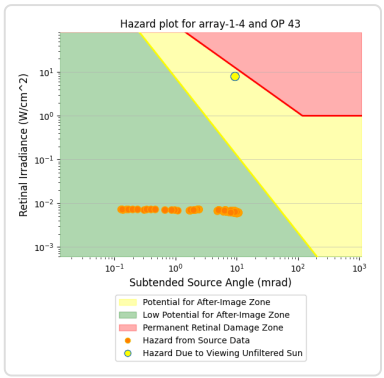
Array 1-4: OP 43

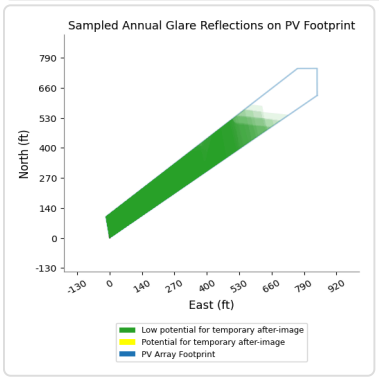
PV array is expected to produce the following glare for this receptor:

- 134 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





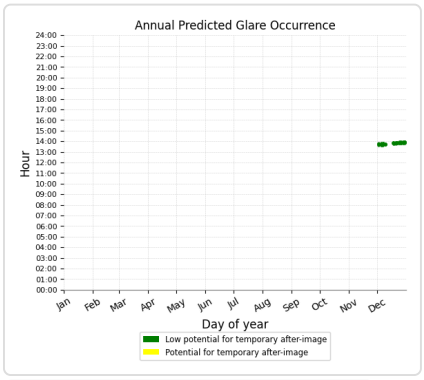


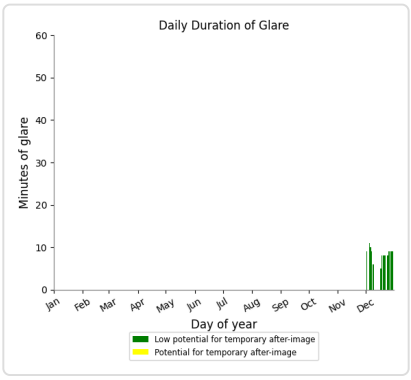


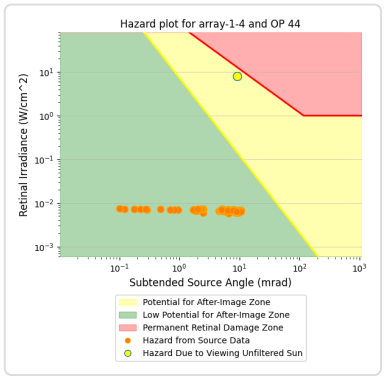
Array 1-4: OP 44

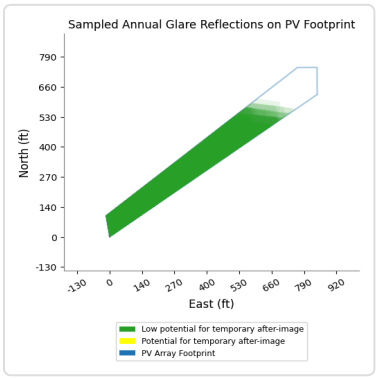
PV array is expected to produce the following glare for this receptor:

- 134 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





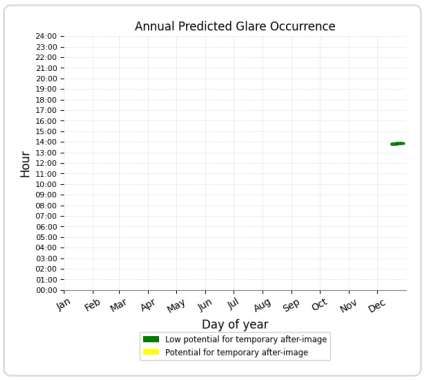


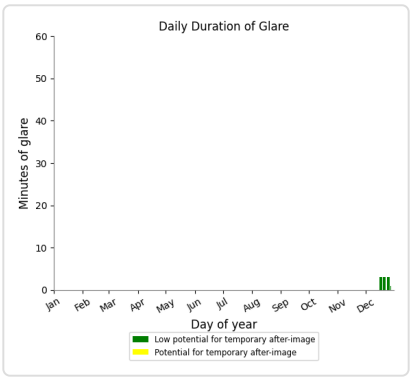


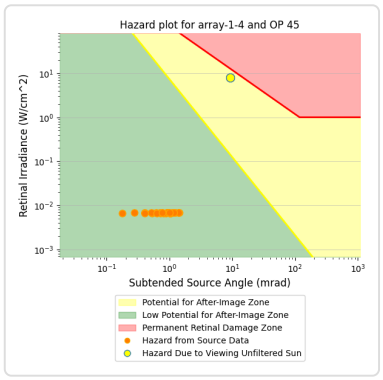
Array 1-4: OP 45

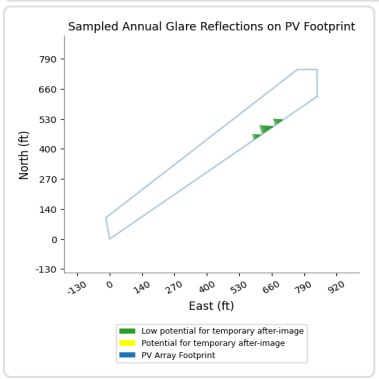
PV array is expected to produce the following glare for this receptor:

- 28 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.





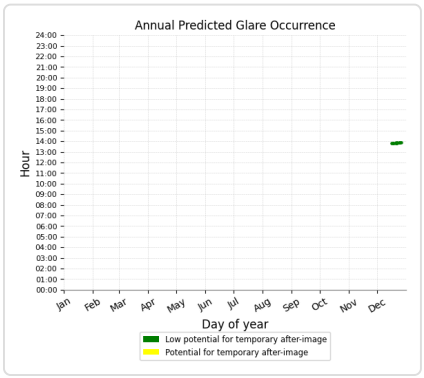


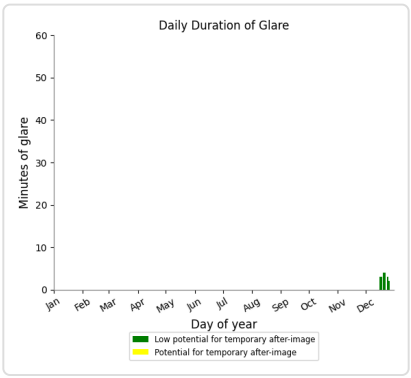


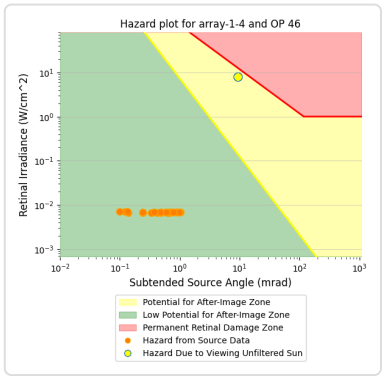
Array 1-4: OP 46

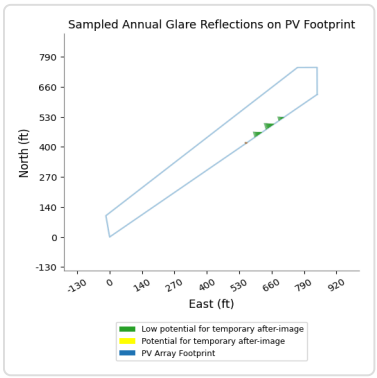
PV array is expected to produce the following glare for this receptor:

- 29 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.









Array 1-4: OP 47

No glare found

Array 1-4: OP 48

No glare found

Array 1-4: OP 49

No glare found

Array 1-4: OP 50

No glare found

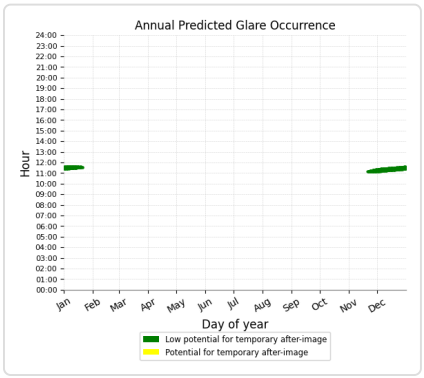
Array 1-4: Ball Rd

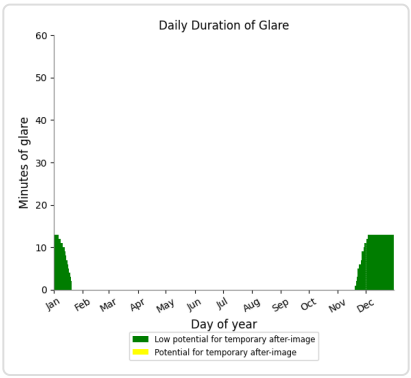
No glare found

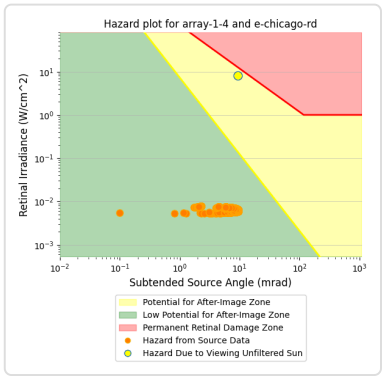
Array 1-4: E Chicago Rd

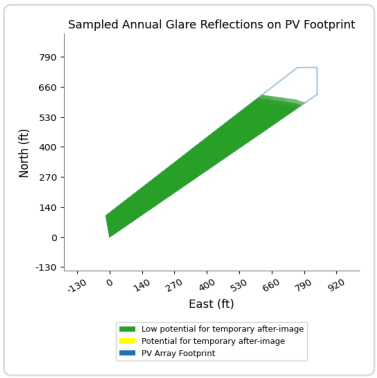
PV array is expected to produce the following glare for this receptor:

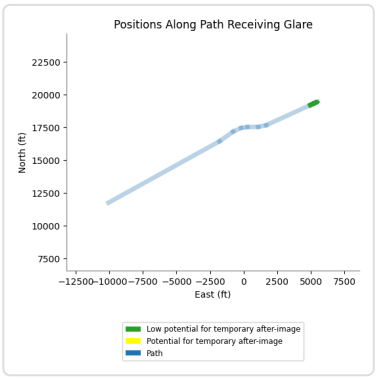
- 656 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











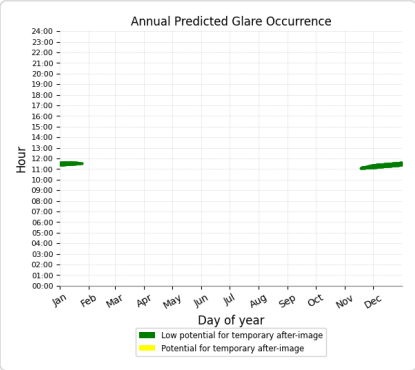
Array 1-4: Half Moon Lake Rd

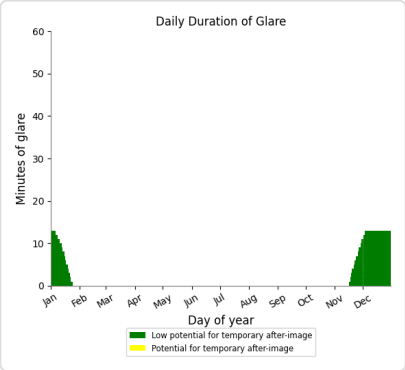
No glare found

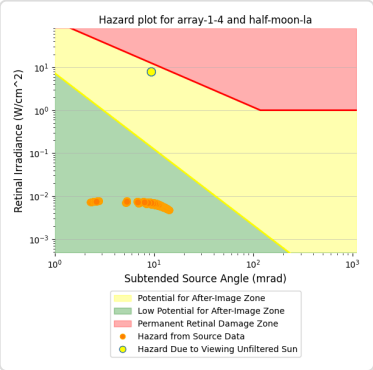
Array 1-4: Half Moon Lake Rd2

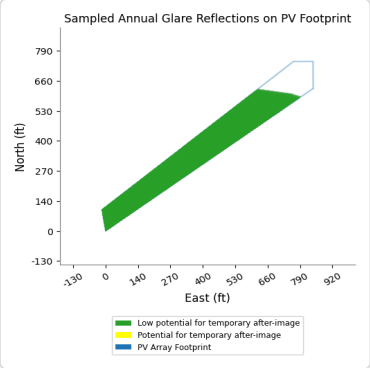
PV array is expected to produce the following glare for this receptor:

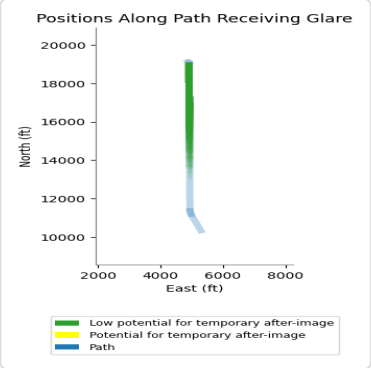
- 688 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Homer Rd

No glare found

Array 1-4: Mauck Rd

No glare found

Array 1-4: Milnes Rd

No glare found

Array 1-4: Montgomery St

No glare found

Array 1-4: Moore Rd E

No glare found

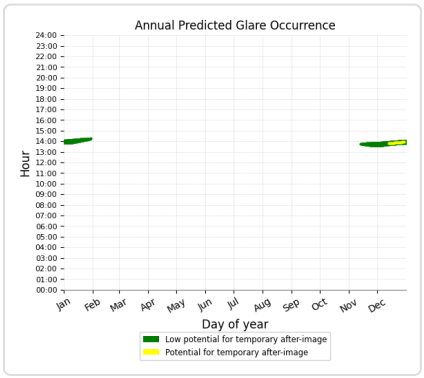
Array 1-4: N Adams Rd

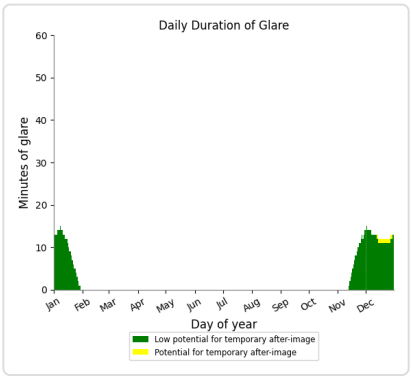
No glare found

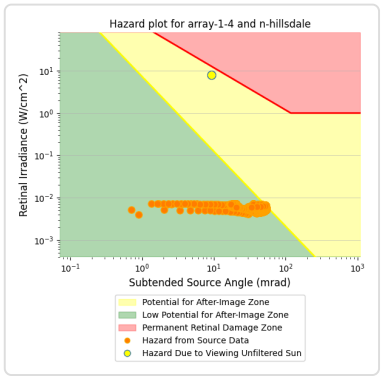
Array 1-4: N Hillsdale Rd

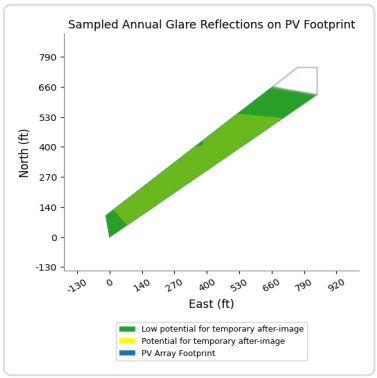
PV array is expected to produce the following glare for this receptor:

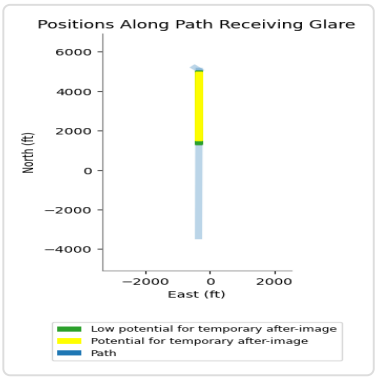
- 809 minutes of "green" glare with low potential to cause temporary after-image.
- 17 minutes of "yellow" glare with potential to cause temporary after-image.











Array 1-4: Oak St

No glare found

Array 1-4: Parkwood Dr

No glare found

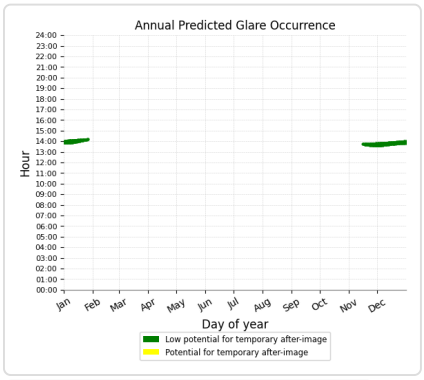
Array 1-4: Salem Dr

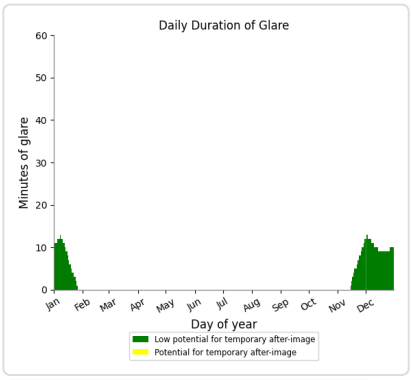
No glare found

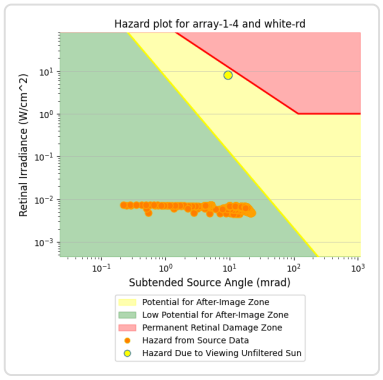
Array 1-4: White Rd

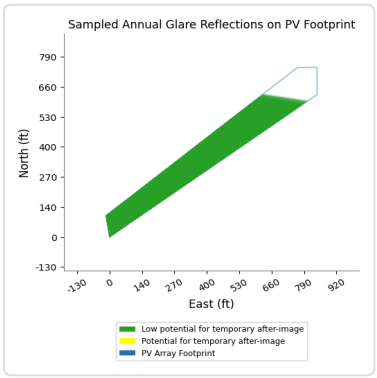
PV array is expected to produce the following glare for this receptor:

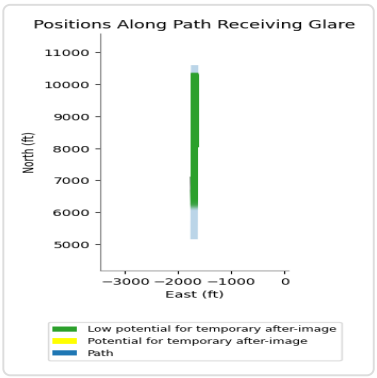
- 636 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 2-1 no glare found

Predicted energy output: 787,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-2 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-3 no glare found

Predicted energy output: 777,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-4 no glare found

Predicted energy output: 758,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-5 no glare found

Predicted energy output: 756,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 2-6 no glare found

Predicted energy output: 762,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-1 no glare found

Predicted energy output: 779,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-2 no glare found

Predicted energy output: 758,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-3 no glare found

Predicted energy output: 771,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-4 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 3-5 no glare found

Predicted energy output: 774,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-1 no glare found

Predicted energy output: 767,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-2 no glare found

Predicted energy output: 767,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-3 no glare found

Predicted energy output: 782,700.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-4 no glare found

Predicted energy output: 761,100.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-5 no glare found

Predicted energy output: 755,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs woARC 2

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162922.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW

Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results Glare with low potential for temporary after-image predicted

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 4-6	SA tracking	SA tracking	0	0	743,900.0
Array 4-7	SA tracking	SA tracking	2,880	0	861,200.0
Array 5-1	SA tracking	SA tracking	0	0	774,600.0
Array 6-1	SA tracking	SA tracking	0	0	766,600.0
Array 6-2	SA tracking	SA tracking	0	0	770,500.0
Array 6-3	SA tracking	SA tracking	0	0	767,200.0
Array 6-4	SA tracking	SA tracking	0	0	776,000.0
Array 7-1	SA tracking	SA tracking	0	0	782,600.0
Array 7-2	SA tracking	SA tracking	0	0	748,500.0
Array 7-3	SA tracking	SA tracking	0	0	759,300.0
Array 8-1	SA tracking	SA tracking	0	0	770,800.0
Array 8-2	SA tracking	SA tracking	2,672	0	809,300.0
Array 8-3	SA tracking	SA tracking	0	0	764,000.0
Array 9-1	SA tracking	SA tracking	0	0	776,000.0
Array 9-2	SA tracking	SA tracking	0	0	781,800.0
Array 9-3	SA tracking	SA tracking	0	0	770,600.0
Array 9-4	SA tracking	SA tracking	0	0	769,400.0
Array 9-5	SA tracking	SA tracking	0	0	765,500.0
Array 9-6	SA tracking	SA tracking	0	0	771,300.0
Array 9-7	SA tracking	SA tracking	0	0	717,000.0

Component Data

PV Array(s)

Total PV footprint area: 777.2 acres

Name: Array 4-6
Footprint area: 6.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.966591	-84.603059	1110.78	6.00	1116.78
2	41.965779	-84.604925	1106.36	6.00	1112.36
3	41.965777	-84.605528	1100.20	6.00	1106.20
4	41.966039	-84.605619	1106.68	6.00	1112.68
5	41.966959	-84.605566	1123.04	6.00	1129.04
6	41.967498	-84.605513	1125.37	6.00	1131.37
7	41.967691	-84.605473	1126.22	6.00	1132.22
8	41.966591	-84.603059	1110.78	6.00	1116.78

Name: Array 4-7
Footprint area: 2.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.965596	-84.603055	1109.79	6.00	1115.79
2	41.965525	-84.604431	1112.80	6.00	1118.80
3	41.965523	-84.604869	1103.46	6.00	1109.46
4	41.965779	-84.604925	1106.36	6.00	1112.36
5	41.966591	-84.603059	1110.78	6.00	1116.78
6	41.965596	-84.603055	1109.79	6.00	1115.79

Name: Array 5-1
Footprint area: 31.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

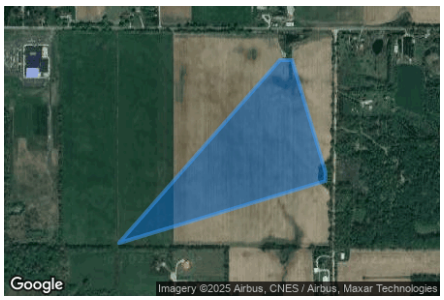
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.970950	-84.646327	1153.33	6.00	1159.33
2	41.970992	-84.648394	1137.46	6.00	1143.46
3	41.977712	-84.648408	1144.44	6.00	1150.44
4	41.977717	-84.646333	1129.66	6.00	1135.66
5	41.970950	-84.646327	1153.33	6.00	1159.33

Name: Array 6-1
Footprint area: 49.2 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973067	-84.637072	1150.02	6.00	1156.02
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977059	-84.639088	1147.44	6.00	1153.44
4	41.977056	-84.638550	1146.14	6.00	1152.14
5	41.973378	-84.637073	1151.24	6.00	1157.24
6	41.973067	-84.637072	1150.02	6.00	1156.02



Name: Array 6-2
Footprint area: 59.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977059	-84.639088	1147.44	6.00	1153.44
2	41.971018	-84.646217	1153.27	6.00	1159.27
3	41.977718	-84.646223	1129.69	6.00	1135.69
4	41.977652	-84.639351	1146.56	6.00	1152.56
5	41.977059	-84.639088	1147.44	6.00	1153.44

Name: Array 6-3
Footprint area: 8.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.973378	-84.637073	1151.24	6.00	1157.24
2	41.977056	-84.638550	1146.14	6.00	1152.14
3	41.977330	-84.638546	1147.63	6.00	1153.63
4	41.977331	-84.636913	1152.08	6.00	1158.08
5	41.973714	-84.636963	1152.39	6.00	1158.39
6	41.973378	-84.637073	1151.24	6.00	1157.24

Name: Array 6-4
Footprint area: 21.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.971018	-84.646217	1153.27	6.00	1159.27
2	41.973067	-84.637072	1150.02	6.00	1156.02
3	41.972974	-84.636975	1150.16	6.00	1156.16
4	41.971018	-84.637003	1168.83	6.00	1174.83
5	41.971018	-84.646217	1153.27	6.00	1159.27

Name: Array 7-1
Footprint area: 14.3 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.980348	-84.649056	1112.34	6.00	1118.34
2	41.982619	-84.646353	1130.58	6.00	1136.58
3	41.979151	-84.646349	1131.69	6.00	1137.69
4	41.979156	-84.649054	1136.14	6.00	1142.14
5	41.980348	-84.649056	1112.34	6.00	1118.34

Name: Array 7-2
Footprint area: 4.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981523	-84.650101	1140.37	6.00	1146.37
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.980352	-84.651110	1106.46	6.00	1112.46
4	41.981525	-84.651116	1137.14	6.00	1143.14
5	41.981523	-84.650101	1140.37	6.00	1146.37

Name: Array 7-3
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982619	-84.646353	1130.58	6.00	1136.58
2	41.980348	-84.649056	1112.34	6.00	1118.34
3	41.981523	-84.650101	1140.37	6.00	1146.37
4	41.982626	-84.649696	1142.71	6.00	1148.71
5	41.982619	-84.646353	1130.58	6.00	1136.58

Name: Array 8-1
Footprint area: 31.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985835	-84.646360	1146.10	6.00	1152.10
2	41.985026	-84.647658	1141.70	6.00	1147.70
3	41.985022	-84.648787	1134.51	6.00	1140.51
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.989860	-84.646384	1129.05	6.00	1135.05
6	41.985835	-84.646360	1146.10	6.00	1152.10

Name: Array 8-2
Footprint area: 7.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985022	-84.648787	1134.51	6.00	1140.51
2	41.984918	-84.648940	1143.07	6.00	1149.07
3	41.984922	-84.650800	1138.52	6.00	1144.52
4	41.988067	-84.650817	1133.84	6.00	1139.84
5	41.985022	-84.648787	1134.51	6.00	1140.51

Name: Array 8-3
Footprint area: 5.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

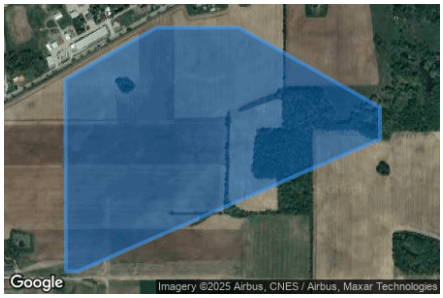
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985026	-84.647658	1141.70	6.00	1147.70
2	41.985835	-84.646360	1146.10	6.00	1152.10
3	41.983607	-84.646355	1130.68	6.00	1136.68
4	41.983611	-84.647649	1134.90	6.00	1140.90
5	41.985026	-84.647658	1141.70	6.00	1147.70

Name: Array 9-1
Footprint area: 161.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991653	-84.638587	1125.38	6.00	1131.38
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.987979	-84.632333	1145.50	6.00	1151.50
4	41.983612	-84.645709	1135.37	6.00	1141.37
5	41.983610	-84.646244	1131.44	6.00	1137.44
6	41.989929	-84.646273	1128.42	6.00	1134.42
7	41.991657	-84.642224	1124.94	6.00	1130.94
8	41.991653	-84.638587	1125.38	6.00	1131.38



Name: Array 9-2
Footprint area: 5.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.982618	-84.645705	1130.67	6.00	1136.67
2	41.979420	-84.645230	1133.67	6.00	1139.67
3	41.979307	-84.645231	1133.82	6.00	1139.82
4	41.979305	-84.646239	1131.83	6.00	1137.83
5	41.980410	-84.646235	1124.28	6.00	1130.28
6	41.982619	-84.646243	1130.53	6.00	1136.53
7	41.982618	-84.645705	1130.67	6.00	1136.67

Name: Array 9-3
Footprint area: 49.1 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.984842	-84.622290	1136.16	6.00	1142.16
2	41.979488	-84.623949	1149.93	6.00	1155.93
3	41.979495	-84.627147	1148.17	6.00	1154.17
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.984842	-84.622290	1136.16	6.00	1142.16

Name: Array 9-4
Footprint area: 11.4 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979488	-84.623949	1149.93	6.00	1155.93
2	41.984842	-84.622290	1136.16	6.00	1142.16
3	41.979229	-84.622244	1147.67	6.00	1153.67
4	41.979232	-84.623894	1149.49	6.00	1155.49
5	41.979488	-84.623949	1149.93	6.00	1155.93

Name: Array 9-5
Footprint area: 165.0 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

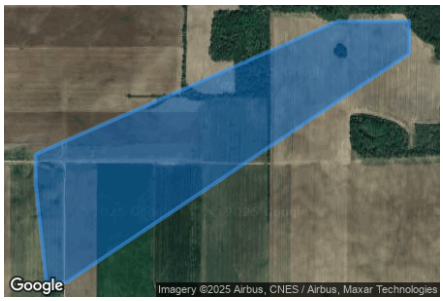
Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.979420	-84.644327	1136.35	6.00	1142.35
2	41.986919	-84.629153	1149.61	6.00	1155.61
3	41.986914	-84.627157	1132.40	6.00	1138.40
4	41.984853	-84.627149	1145.27	6.00	1151.27
5	41.979495	-84.627147	1148.17	6.00	1154.17
6	41.979240	-84.627200	1146.73	6.00	1152.73
7	41.979300	-84.644328	1136.42	6.00	1142.42
8	41.979420	-84.644327	1136.35	6.00	1142.35

Name: Array 9-6
Footprint area: 124.6 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983612	-84.645709	1135.37	6.00	1141.37
2	41.987979	-84.632333	1145.50	6.00	1151.50
3	41.987982	-84.629157	1120.58	6.00	1126.58
4	41.986919	-84.629153	1149.61	6.00	1155.61
5	41.979420	-84.644327	1136.35	6.00	1142.35
6	41.979420	-84.645230	1133.67	6.00	1139.67
7	41.982618	-84.645705	1130.67	6.00	1136.67
8	41.983612	-84.645709	1135.37	6.00	1141.37



Name: Array 9-7
Footprint area: 7.9 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.992919	-84.635798	1130.18	6.00	1136.18
2	41.992991	-84.639344	1119.75	6.00	1125.75
3	41.993972	-84.637106	1143.33	6.00	1149.33
4	41.994320	-84.636300	1123.84	6.00	1129.84
5	41.994325	-84.635215	1125.34	6.00	1131.34
6	41.993183	-84.635215	1131.63	6.00	1137.63
7	41.992919	-84.635798	1130.18	6.00	1136.18

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

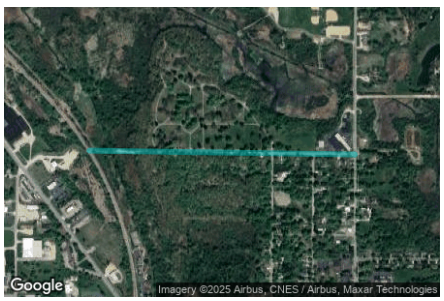
Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

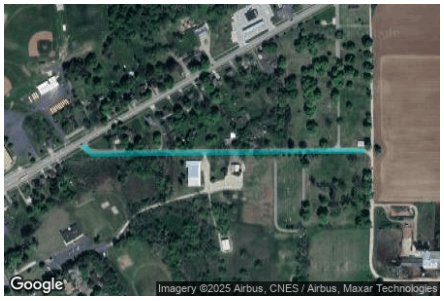
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

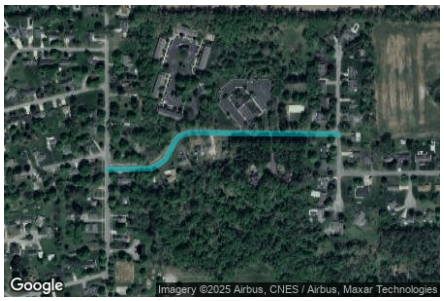
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Name: Obstruction 3
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.987804	-84.651126	1130.29
2	41.988319	-84.651018	1126.04
3	41.988504	-84.650549	1127.46

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 4-6	SA tracking	SA tracking	0	0	743,900.0	-
Array 4-7	SA tracking	SA tracking	2,880	0	861,200.0	-
Array 5-1	SA tracking	SA tracking	0	0	774,600.0	-
Array 6-1	SA tracking	SA tracking	0	0	766,600.0	-
Array 6-2	SA tracking	SA tracking	0	0	770,500.0	-
Array 6-3	SA tracking	SA tracking	0	0	767,200.0	-
Array 6-4	SA tracking	SA tracking	0	0	776,000.0	-
Array 7-1	SA tracking	SA tracking	0	0	782,600.0	-
Array 7-2	SA tracking	SA tracking	0	0	748,500.0	-
Array 7-3	SA tracking	SA tracking	0	0	759,300.0	-
Array 8-1	SA tracking	SA tracking	0	0	770,800.0	-
Array 8-2	SA tracking	SA tracking	2,672	0	809,300.0	-
Array 8-3	SA tracking	SA tracking	0	0	764,000.0	-
Array 9-1	SA tracking	SA tracking	0	0	776,000.0	-
Array 9-2	SA tracking	SA tracking	0	0	781,800.0	-
Array 9-3	SA tracking	SA tracking	0	0	770,600.0	-
Array 9-4	SA tracking	SA tracking	0	0	769,400.0	-
Array 9-5	SA tracking	SA tracking	0	0	765,500.0	-
Array 9-6	SA tracking	SA tracking	0	0	771,300.0	-
Array 9-7	SA tracking	SA tracking	0	0	717,000.0	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
array-4-7 (green)	698	501	5	0	0	0	0	0	0	318	675	683
array-4-7 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0
array-8-2 (green)	814	123	0	0	0	0	0	0	0	18	591	1126
array-8-2 (yellow)	0	0	0	0	0	0	0	0	0	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 4-6 no glare found

Predicted energy output: 743,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 4-7 low potential for temporary after-image

Predicted energy output: 861,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	2880	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 4-7: OP 1

No glare found

Array 4-7: OP 2

No glare found

Array 4-7: OP 3
No glare found

Array 4-7: OP 4
No glare found

Array 4-7: OP 5
No glare found

Array 4-7: OP 6
No glare found

Array 4-7: OP 7
No glare found

Array 4-7: OP 8
No glare found

Array 4-7: OP 9
No glare found

Array 4-7: OP 10
No glare found

Array 4-7: OP 11
No glare found

Array 4-7: OP 12
No glare found

Array 4-7: OP 13
No glare found

Array 4-7: OP 14
No glare found

Array 4-7: OP 15
No glare found

Array 4-7: OP 16
No glare found

Array 4-7: OP 17
No glare found

Array 4-7: OP 18
No glare found

Array 4-7: OP 19
No glare found

Array 4-7: OP 20
No glare found

Array 4-7: OP 21
No glare found

Array 4-7: OP 22
No glare found

Array 4-7: OP 23
No glare found

Array 4-7: OP 24
No glare found

Array 4-7: OP 25
No glare found

Array 4-7: OP 26
No glare found

Array 4-7: OP 27
No glare found

Array 4-7: OP 28
No glare found

Array 4-7: OP 29
No glare found

Array 4-7: OP 30
No glare found

Array 4-7: OP 31
No glare found

Array 4-7: OP 32
No glare found

Array 4-7: OP 33
No glare found

Array 4-7: OP 34
No glare found

Array 4-7: OP 35
No glare found

Array 4-7: OP 36
No glare found

Array 4-7: OP 37
No glare found

Array 4-7: OP 38
No glare found

Array 4-7: OP 39
No glare found

Array 4-7: OP 40
No glare found

Array 4-7: OP 41
No glare found

Array 4-7: OP 42
No glare found

Array 4-7: OP 43
No glare found

Array 4-7: OP 44
No glare found

Array 4-7: OP 45
No glare found

Array 4-7: OP 46
No glare found

Array 4-7: OP 47
No glare found

Array 4-7: OP 48

No glare found

Array 4-7: OP 49

No glare found

Array 4-7: OP 50

No glare found

Array 4-7: Ball Rd

No glare found

Array 4-7: E Chicago Rd

No glare found

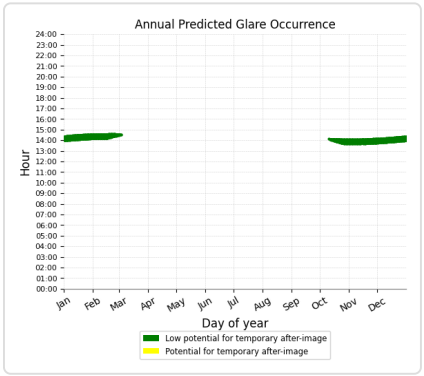
Array 4-7: Half Moon Lake Rd

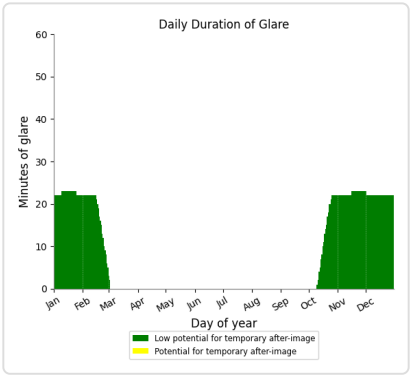
No glare found

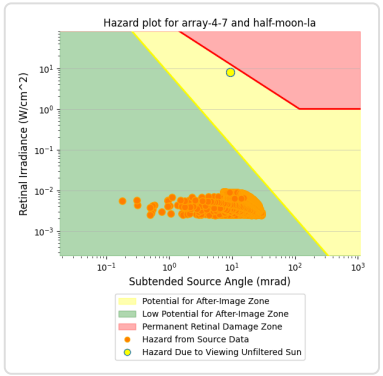
Array 4-7: Half Moon Lake Rd2

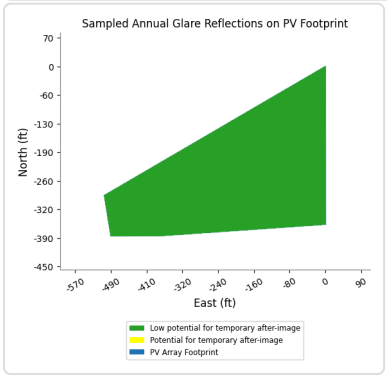
PV array is expected to produce the following glare for this receptor:

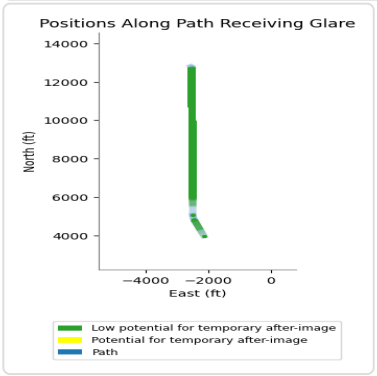
- 2,880 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 4-7: Homer Rd

No glare found

Array 4-7: Mauck Rd

No glare found

Array 4-7: Milnes Rd

No glare found

Array 4-7: Montgomery St

No glare found

Array 4-7: Moore Rd E

No glare found

Array 4-7: N Adams Rd

No glare found

Array 4-7: N Hillsdale Rd

No glare found

Array 4-7: Oak St

No glare found

Array 4-7: Parkwood Dr

No glare found

Array 4-7: Salem Dr

No glare found

Array 4-7: White Rd

No glare found

Array 5-1 no glare found

Predicted energy output: 774,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-1 no glare found

Predicted energy output: 766,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-2 no glare found

Predicted energy output: 770,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-3 no glare found

Predicted energy output: 767,200.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 6-4 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-1 no glare found

Predicted energy output: 782,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-2 no glare found

Predicted energy output: 748,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 7-3 no glare found

Predicted energy output: 759,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-1 no glare found

Predicted energy output: 770,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 8-2 low potential for temporary after-image

Predicted energy output: 809,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0

OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0
OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	2672	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

Array 8-2: OP 1

No glare found

Array 8-2: OP 2

No glare found

Array 8-2: OP 3
No glare found

Array 8-2: OP 4
No glare found

Array 8-2: OP 5
No glare found

Array 8-2: OP 6
No glare found

Array 8-2: OP 7
No glare found

Array 8-2: OP 8
No glare found

Array 8-2: OP 9
No glare found

Array 8-2: OP 10
No glare found

Array 8-2: OP 11
No glare found

Array 8-2: OP 12
No glare found

Array 8-2: OP 13
No glare found

Array 8-2: OP 14
No glare found

Array 8-2: OP 15
No glare found

Array 8-2: OP 16
No glare found

Array 8-2: OP 17
No glare found

Array 8-2: OP 18
No glare found

Array 8-2: OP 19
No glare found

Array 8-2: OP 20
No glare found

Array 8-2: OP 21
No glare found

Array 8-2: OP 22
No glare found

Array 8-2: OP 23
No glare found

Array 8-2: OP 24
No glare found

Array 8-2: OP 25
No glare found

Array 8-2: OP 26
No glare found

Array 8-2: OP 27
No glare found

Array 8-2: OP 28
No glare found

Array 8-2: OP 29
No glare found

Array 8-2: OP 30
No glare found

Array 8-2: OP 31
No glare found

Array 8-2: OP 32
No glare found

Array 8-2: OP 33
No glare found

Array 8-2: OP 34
No glare found

Array 8-2: OP 35
No glare found

Array 8-2: OP 36
No glare found

Array 8-2: OP 37
No glare found

Array 8-2: OP 38
No glare found

Array 8-2: OP 39
No glare found

Array 8-2: OP 40
No glare found

Array 8-2: OP 41
No glare found

Array 8-2: OP 42
No glare found

Array 8-2: OP 43
No glare found

Array 8-2: OP 44
No glare found

Array 8-2: OP 45
No glare found

Array 8-2: OP 46
No glare found

Array 8-2: OP 47
No glare found

Array 8-2: OP 48

No glare found

Array 8-2: OP 49

No glare found

Array 8-2: OP 50

No glare found

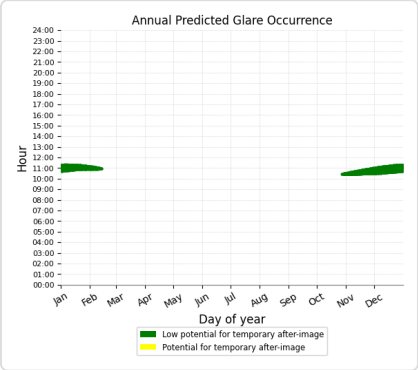
Array 8-2: Ball Rd

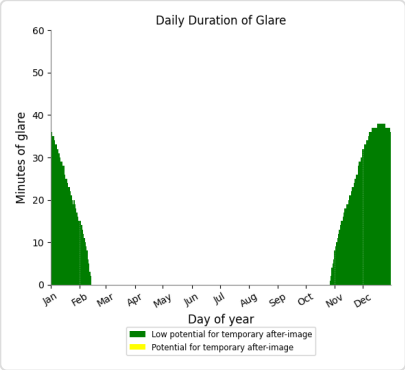
No glare found

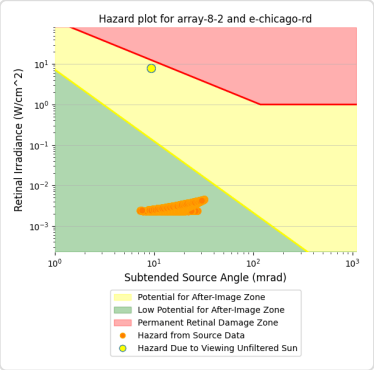
Array 8-2: E Chicago Rd

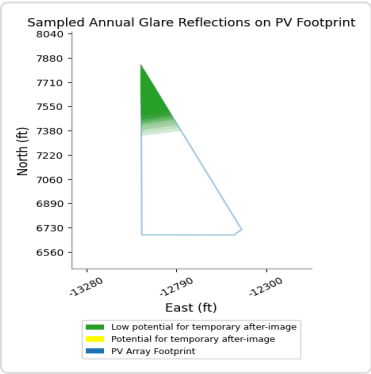
PV array is expected to produce the following glare for this receptor:

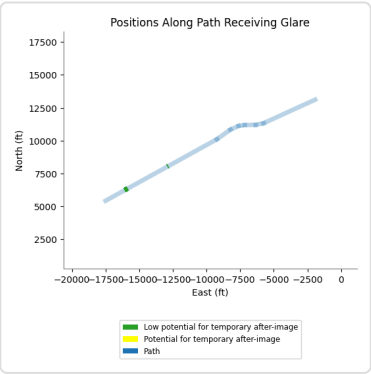
- 2,672 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.











Array 8-2: Half Moon Lake Rd

No glare found

Array 8-2: Half Moon Lake Rd2

No glare found

Array 8-2: Homer Rd

No glare found

Array 8-2: Mauck Rd
No glare found

Array 8-2: Milnes Rd
No glare found

Array 8-2: Montgomery St
No glare found

Array 8-2: Moore Rd E
No glare found

Array 8-2: N Adams Rd
No glare found

Array 8-2: N Hillsdale Rd
No glare found

Array 8-2: Oak St
No glare found

Array 8-2: Parkwood Dr
No glare found

Array 8-2: Salem Dr
No glare found

Array 8-2: White Rd
No glare found

Array 8-3 no glare found

Predicted energy output: 764,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-1 no glare found

Predicted energy output: 776,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-2 no glare found

Predicted energy output: 781,800.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-3 no glare found

Predicted energy output: 770,600.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-4 no glare found

Predicted energy output: 769,400.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-5 no glare found

Predicted energy output: 765,500.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-6 no glare found

Predicted energy output: 771,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-7 no glare found

Predicted energy output: 717,000.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.

ForgeSolar

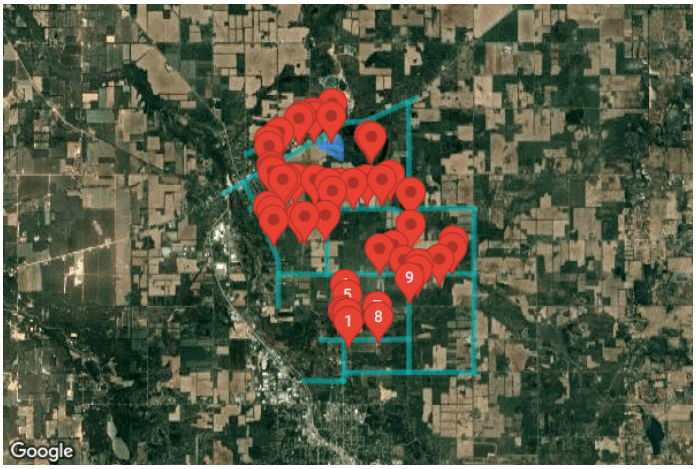
Heartwood Solar II

Ranger Power Heartwood Solar II 20ft OPs woARC 3

Client: Ranger Power

Created Oct 27, 2025
Updated Oct 27, 2025
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
Site ID 162942.27306

Project type Advanced
Project status: active
Category 100 MW to 1 GW



Misc. Analysis Settings

DNI: **varies (1,000.0 W/m^2 peak)**
Ocular transmission coefficient: **0.5**
Pupil diameter: **0.002 m**
Eye focal length: **0.017 m**
Sun subtended angle: **9.3 mrad**

PV Analysis Methodology: **Version 2**
Enhanced subtended angle calculation: **On**

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Array 9-10	SA tracking	SA tracking	0	0	781,300.0
Array 9-8	SA tracking	SA tracking	0	0	773,900.0
Array 9-9	SA tracking	SA tracking	0	0	725,300.0

Component Data

PV Array(s)

Total PV footprint area: 38.1 acres

Name: Array 9-10
Footprint area: 10.5 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.991823	-84.634487	1126.53	6.00	1132.53
3	41.992367	-84.634487	1126.43	6.00	1132.43
4	41.993176	-84.634443	1128.92	6.00	1134.92
5	41.993986	-84.634138	1122.44	6.00	1128.44
6	41.993989	-84.633097	1118.75	6.00	1124.75
7	41.993177	-84.632580	1115.26	6.00	1121.26
8	41.992364	-84.632350	1127.60	6.00	1133.60
9	41.991192	-84.632345	1126.47	6.00	1132.47

Name: Array 9-8
Footprint area: 8.8 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991816	-84.635788	1138.98	6.00	1144.98
2	41.991653	-84.638587	1125.38	6.00	1131.38
3	41.992991	-84.639344	1119.75	6.00	1125.75
4	41.992919	-84.635798	1130.18	6.00	1136.18
5	41.991816	-84.635788	1138.98	6.00	1144.98

Name: Array 9-9
Footprint area: 18.7 acres
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0 deg
Maximum tracking angle: 52.0 deg
Resting angle: 52.0 deg
Ground Coverage Ratio: 38.0

Rated power: 545.0 kW
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.991192	-84.632345	1126.47	6.00	1132.47
2	41.989024	-84.632336	1125.82	6.00	1131.82
3	41.991653	-84.638587	1125.38	6.00	1131.38
4	41.991816	-84.635788	1138.98	6.00	1144.98
5	41.991823	-84.634487	1126.53	6.00	1132.53
6	41.991192	-84.632345	1126.47	6.00	1132.47

Route Receptor(s)

Name: Ball Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963684	-84.651174	1100.48	10.00	1110.48
2	41.963547	-84.636649	1162.54	10.00	1172.54
3	41.963509	-84.628799	1141.37	10.00	1151.37
4	41.963638	-84.612234	1123.12	10.00	1133.12
5	41.963690	-84.598133	1105.07	10.00	1115.07
6	41.963634	-84.592854	1099.25	10.00	1109.25

Name: E Chicago Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.981483	-84.667397	1069.35	10.00	1079.35
2	41.994315	-84.636985	1140.66	10.00	1150.66
3	41.996324	-84.633294	1120.17	10.00	1130.17
4	41.997090	-84.631062	1105.77	10.00	1115.77
5	41.997281	-84.629389	1107.09	10.00	1117.09
6	41.997313	-84.626385	1106.37	10.00	1116.37
7	41.997664	-84.624228	1107.09	10.00	1117.09
8	42.002575	-84.610152	1166.43	10.00	1176.43

Name: Half Moon Lake Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.977051	-84.612196	1104.30	10.00	1114.30
2	41.963621	-84.612227	1123.05	10.00	1133.05
3	41.949154	-84.612275	1088.92	10.00	1098.92
4	41.943822	-84.612232	1158.65	10.00	1168.65
5	41.941914	-84.612307	1164.30	10.00	1174.30

Name: Half Moon Lake Rd2
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	42.001711	-84.612480	1183.33	10.00	1193.33
2	42.001568	-84.612351	1185.12	10.00	1195.12
3	41.980480	-84.612234	1108.23	10.00	1118.23
4	41.979842	-84.612084	1103.31	10.00	1113.31
5	41.977513	-84.610925	1101.44	10.00	1111.44

Name: Homer Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.983978	-84.661679	1072.30	10.00	1082.30
2	41.978046	-84.657165	1096.99	10.00	1106.99
3	41.973365	-84.654729	1123.00	10.00	1133.00
4	41.966801	-84.651342	1108.11	10.00	1118.11
5	41.966219	-84.651213	1100.51	10.00	1110.51
6	41.956504	-84.651202	1103.95	10.00	1113.95

Name: Mauck Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.941743	-84.631642	1068.18	10.00	1078.18
2	41.941871	-84.612269	1165.52	10.00	1175.52
3	41.941895	-84.592948	1161.38	10.00	1171.38
4	41.941815	-84.592819	1160.94	10.00	1170.94

Name: Milnes Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978188	-84.592863	1133.96	10.00	1143.96
2	41.963658	-84.592858	1099.32	10.00	1109.32
3	41.941830	-84.592938	1161.48	10.00	1171.48

Name: Montgomery St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.939985	-84.643445	1078.99	10.00	1088.99
2	41.939858	-84.631694	1091.97	10.00	1101.97

Name: Moore Rd E
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.949087	-84.638432	1081.60	10.00	1091.60
2	41.948976	-84.638196	1082.00	10.00	1092.00
3	41.948990	-84.631631	1106.59	10.00	1116.59
4	41.949161	-84.612303	1088.61	10.00	1098.61

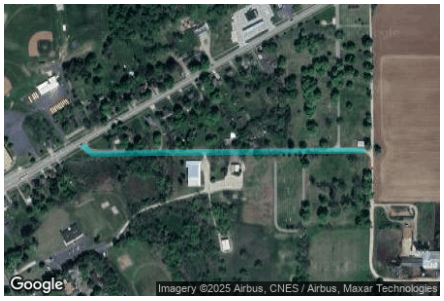
Name: N Adams Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978170	-84.659485	1100.96	10.00	1110.96
2	41.978075	-84.633515	1151.34	10.00	1161.34
3	41.978035	-84.625115	1145.73	10.00	1155.73
4	41.978075	-84.617800	1144.56	10.00	1154.56
5	41.977979	-84.616909	1140.08	10.00	1150.08
6	41.977062	-84.614066	1125.12	10.00	1135.12
7	41.977054	-84.612498	1106.11	10.00	1116.11
8	41.978067	-84.609279	1112.96	10.00	1122.96
9	41.978178	-84.607219	1117.24	10.00	1127.24
10	41.978221	-84.592870	1134.15	10.00	1144.15

Name: N Hillsdale Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

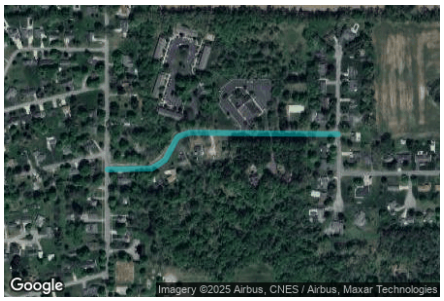
Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.963502	-84.632125	1179.97	10.00	1189.97
2	41.963127	-84.631610	1170.34	10.00	1180.34
3	41.939897	-84.631685	1091.53	10.00	1101.53

Name: Oak St
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.985590	-84.657533	1077.74	10.00	1087.74
2	41.985470	-84.657351	1077.15	10.00	1087.15
3	41.985526	-84.651375	1131.84	10.00	1141.84

Name: Parkwood Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990287	-84.660871	1080.34	10.00	1090.34
2	41.990303	-84.659890	1089.78	10.00	1099.78
3	41.990442	-84.659595	1094.20	10.00	1104.20
4	41.990821	-84.659321	1097.22	10.00	1107.22
5	41.990889	-84.659047	1098.76	10.00	1108.76
6	41.990865	-84.655770	1125.49	10.00	1135.49

Name: Salem Dr
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.990227	-84.655739	1130.97	10.00	1140.97
2	41.990227	-84.651174	1135.59	10.00	1145.59

Name: White Rd
Route type Two-way
Azimuthal view angle: 50.0 deg
Downward view angle: 90.0 deg

Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	41.978085	-84.636619	1153.08	10.00	1163.08
2	41.963556	-84.636656	1162.49	10.00	1172.49

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	41.946900	-84.629983	1106.49	20.00	1126.49
OP 2	41.948692	-84.630530	1112.18	20.00	1132.18
OP 3	41.948791	-84.631259	1111.01	20.00	1131.01
OP 4	41.949327	-84.631930	1108.23	20.00	1128.23
OP 5	41.952969	-84.630575	1080.23	20.00	1100.23
OP 6	41.955118	-84.631223	1094.13	20.00	1114.13
OP 7	41.950223	-84.621623	1094.11	20.00	1114.11
OP 8	41.948033	-84.621309	1096.11	20.00	1116.11
OP 9	41.956630	-84.611833	1131.84	20.00	1151.84
OP 10	41.958521	-84.609408	1139.67	20.00	1159.67
OP 11	41.959721	-84.609154	1145.91	20.00	1165.91
OP 12	41.960475	-84.613453	1155.38	20.00	1175.38
OP 13	41.962992	-84.620671	1154.45	20.00	1174.45
OP 14	41.963825	-84.616658	1144.90	20.00	1164.90
OP 15	41.960824	-84.603015	1107.26	20.00	1127.26
OP 16	41.964743	-84.598919	1106.70	20.00	1126.70
OP 17	41.963273	-84.599198	1111.59	20.00	1131.59
OP 18	41.968341	-84.611480	1138.28	20.00	1158.28
OP 19	41.975446	-84.611554	1147.05	20.00	1167.05
OP 20	41.979458	-84.617637	1149.20	20.00	1169.20
OP 21	41.978405	-84.620030	1152.74	20.00	1172.74
OP 22	41.978411	-84.624576	1153.10	20.00	1173.10
OP 23	41.977554	-84.628680	1161.67	20.00	1181.67
OP 24	41.977726	-84.632738	1157.69	20.00	1177.69
OP 25	41.975740	-84.634830	1164.63	20.00	1184.63
OP 26	41.977683	-84.636096	1160.30	20.00	1180.30
OP 27	41.978405	-84.640023	1148.51	20.00	1168.51
OP 28	41.970367	-84.637061	1181.48	20.00	1201.48
OP 29	41.970276	-84.643231	1172.56	20.00	1192.56
OP 30	41.970284	-84.644416	1159.13	20.00	1179.13
OP 31	41.969466	-84.652339	1115.03	20.00	1135.03
OP 32	41.971380	-84.652994	1107.98	20.00	1127.98
OP 33	41.972557	-84.654024	1127.37	20.00	1147.37
OP 34	41.978541	-84.645843	1138.32	20.00	1158.32
OP 35	41.978489	-84.648638	1139.22	20.00	1159.22
OP 36	41.978417	-84.649646	1148.61	20.00	1168.61
OP 37	41.980276	-84.652738	1120.12	20.00	1140.12
OP 38	41.980607	-84.652727	1109.54	20.00	1129.54
OP 39	41.981544	-84.653253	1109.10	20.00	1129.10
OP 40	41.985669	-84.653750	1112.55	20.00	1132.55
OP 41	41.986981	-84.653787	1111.66	20.00	1131.66
OP 42	41.988866	-84.650757	1130.76	20.00	1150.76
OP 43	41.991990	-84.644762	1122.66	20.00	1142.66
OP 44	41.992301	-84.643995	1122.57	20.00	1142.57
OP 45	41.992449	-84.640519	1127.29	20.00	1147.29
OP 46	41.993234	-84.640701	1123.65	20.00	1143.65
OP 47	41.995116	-84.634843	1129.25	20.00	1149.25
OP 48	41.992312	-84.635190	1140.23	20.00	1160.23
OP 49	41.988047	-84.623750	1154.36	20.00	1174.36
OP 50	41.987879	-84.623149	1147.99	20.00	1167.99

Obstruction Components

Name: Obstruction 1
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.970893	-84.609791	1144.98
2	41.970881	-84.612146	1153.55
3	41.968321	-84.612114	1144.65

Name: Obstruction 2
Upper edge height: 40.0 ft

Vertex	Latitude	Longitude	Ground elevation
	deg	deg	ft
1	41.952629	-84.631515	1088.93
2	41.952753	-84.631518	1087.73
3	41.952657	-84.631106	1086.54
4	41.952666	-84.630633	1090.72
5	41.952535	-84.630091	1089.04
6	41.952584	-84.629829	1087.18
7	41.952217	-84.629233	1073.64
8	41.951953	-84.629018	1079.03
9	41.951580	-84.627385	1075.86
10	41.951229	-84.626841	1076.95

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Array 9-10	SA tracking	SA tracking	0	0	781,300.0	-
Array 9-8	SA tracking	SA tracking	0	0	773,900.0	-
Array 9-9	SA tracking	SA tracking	0	0	725,300.0	-

PV & Receptor Analysis Results

Results for each PV array and receptor

Array 9-10 no glare found

Predicted energy output: 781,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-8 no glare found

Predicted energy output: 773,900.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Array 9-9 no glare found

Predicted energy output: 725,300.0 kWh (assuming sunny, clear skies)

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	0	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0
OP: OP 10	0	0
OP: OP 11	0	0
OP: OP 12	0	0
OP: OP 13	0	0
OP: OP 14	0	0
OP: OP 15	0	0
OP: OP 16	0	0
OP: OP 17	0	0
OP: OP 18	0	0
OP: OP 19	0	0
OP: OP 20	0	0
OP: OP 21	0	0
OP: OP 22	0	0
OP: OP 23	0	0
OP: OP 24	0	0
OP: OP 25	0	0
OP: OP 26	0	0
OP: OP 27	0	0
OP: OP 28	0	0
OP: OP 29	0	0
OP: OP 30	0	0
OP: OP 31	0	0
OP: OP 32	0	0
OP: OP 33	0	0
OP: OP 34	0	0
OP: OP 35	0	0
OP: OP 36	0	0
OP: OP 37	0	0
OP: OP 38	0	0
OP: OP 39	0	0
OP: OP 40	0	0
OP: OP 41	0	0
OP: OP 42	0	0
OP: OP 43	0	0
OP: OP 44	0	0
OP: OP 45	0	0
OP: OP 46	0	0
OP: OP 47	0	0
OP: OP 48	0	0

OP: OP 49	0	0
OP: OP 50	0	0
Route: Ball Rd	0	0
Route: E Chicago Rd	0	0
Route: Half Moon Lake Rd	0	0
Route: Half Moon Lake Rd2	0	0
Route: Homer Rd	0	0
Route: Mauck Rd	0	0
Route: Milnes Rd	0	0
Route: Montgomery St	0	0
Route: Moore Rd E	0	0
Route: N Adams Rd	0	0
Route: N Hillsdale Rd	0	0
Route: Oak St	0	0
Route: Parkwood Dr	0	0
Route: Salem Dr	0	0
Route: White Rd	0	0

No glare found

Summary of Vertical Surface Glare Analysis

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not automatically account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographi obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
- Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for larg PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare.
- The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, nc discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Refer to the **Help page** for detailed assumptions and limitations not listed here.