

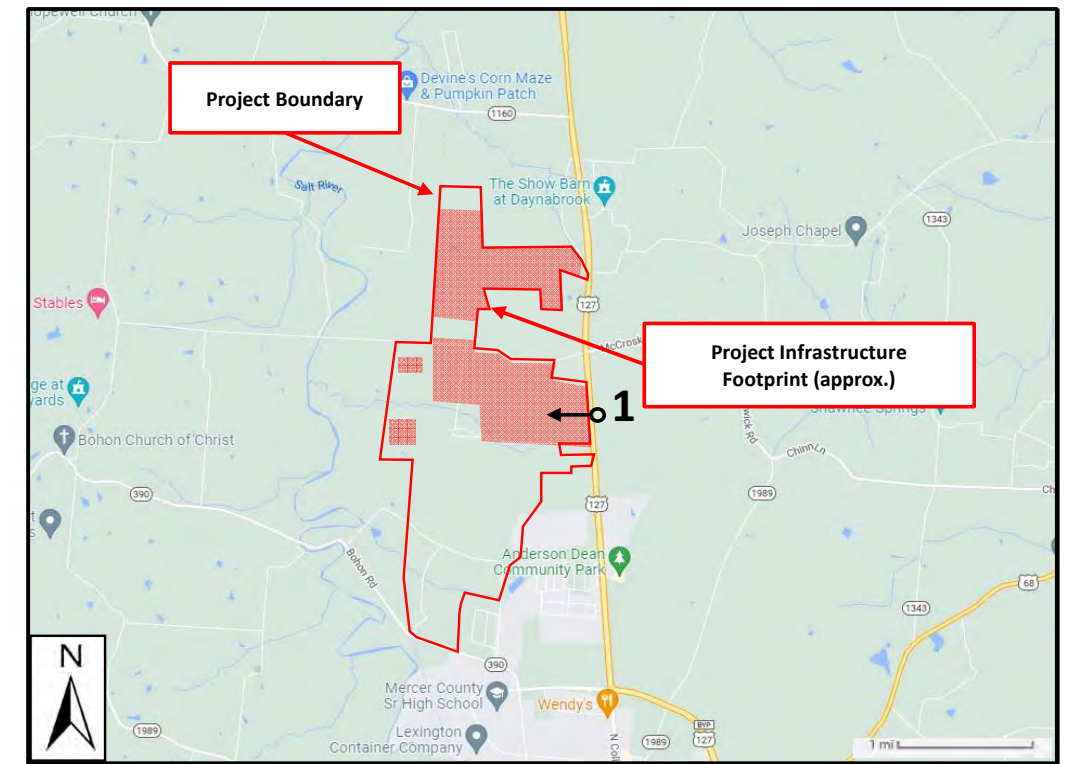
APPENDIX C. VISUAL RESOURCE ASSESSMENT DATA

Appendix C - Visual Summary



Existing/Baseline View from US Highway 127 (Louisville Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	2
Influence of Adjacent Scenery	1
Scarcity	1
Cultural Modifications	-1
TOTAL	6



Project View from US Highway 127 (Louisville Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	1
Influence of Adjacent	1
Scarcity	1
Cultural Modifications	-2
TOTAL	4

Viewpoint #1 - Views from US Highway 127 (Louisville Road)

Existing/Baseline Views: As shown in the adjacent photo, the proposed site is undeveloped and consists of low rolling hills, with grasses as the dominant vegetation (presume fallow agricultural fields). The tree line and related vegetation shown US Highway 127 generally screened views of the site from this location; however, as shown, portions of the site would be visible between gaps in the vegetation.

Project Views: As shown in the adjacent photo, portions of the proposed solar arrays are expected to be partially visible from this viewpoint (see orange shaded areas which approximate the footprint/visible portions of the new solar arrays). While the proposed solar arrays would be partially visible through the small gaps in vegetation bordering US Highway 127/the site perimeter, the majority of the solar panels would be obstructed from view by the existing tall trees/vegetation. Additionally, due to the low-lying nature of the solar array infrastructure, the panels would not be distracting to viewers from this location, nor would they be incompatible or incongruous with the surrounding environment.

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

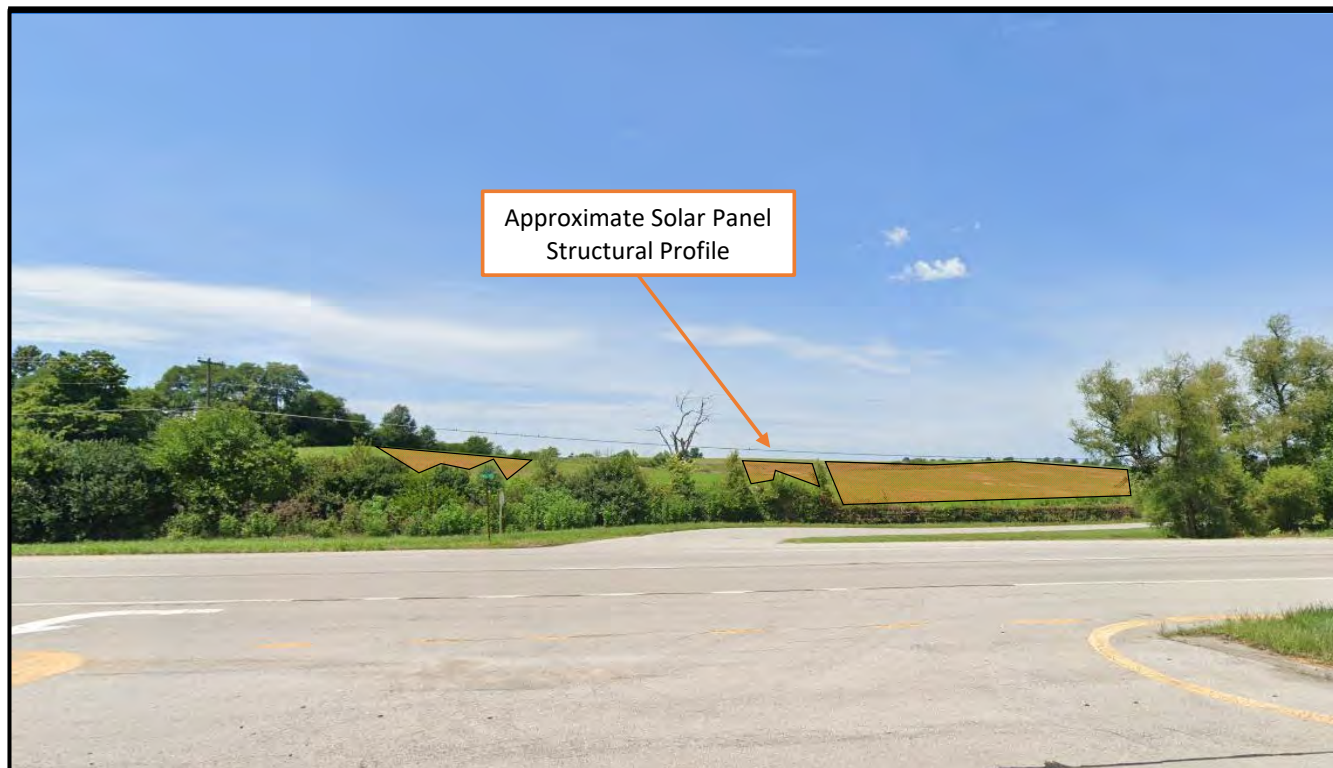
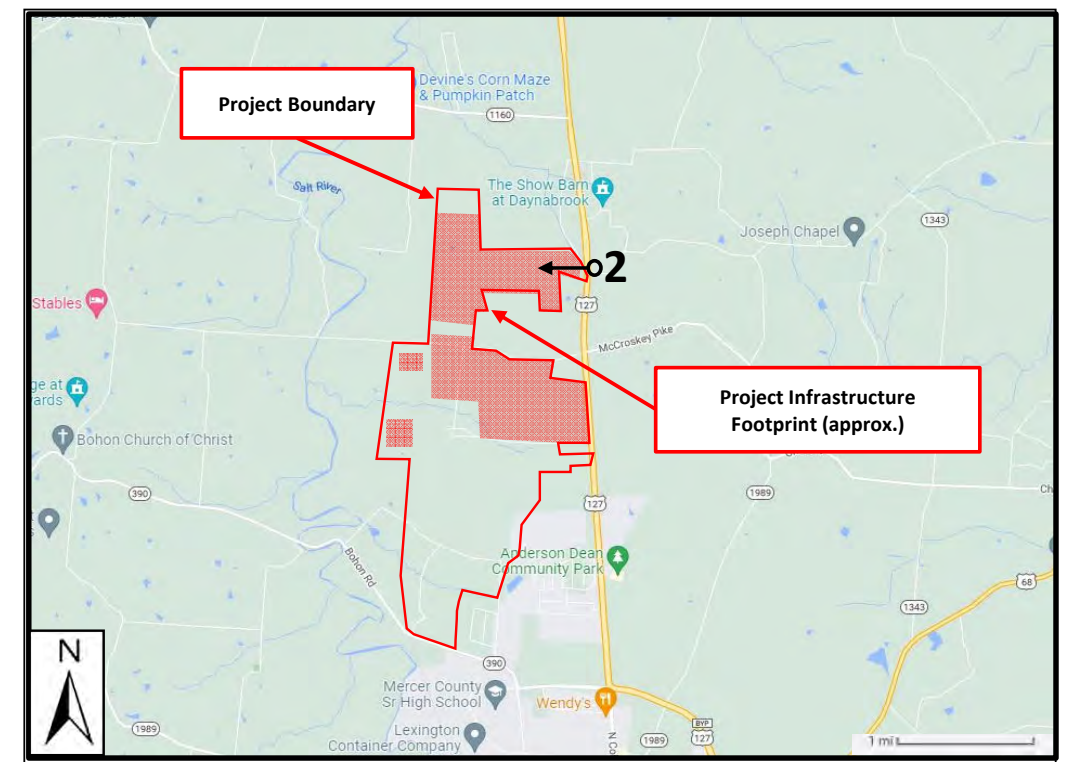


VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #1		
#1	Site Assessment Report US Highway 127 (Louisville Road) Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from US Highway 127 (Louisville Road)

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	2
Water	0
Color	2
Influence of Adjacent Scenery	1
Scarcity	1
Cultural Modifications	-1
TOTAL	7



Project View from US Highway 127 (Louisville Road)

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	2
Water	0
Color	1
Influence of Adjacent	1
Scarcity	1
Cultural Modifications	-2
TOTAL	5

Viewpoint #2 - Views from US Highway 127 (Louisville Road)

Existing/Baseline Views: As shown in the adjacent photo, the proposed site is undeveloped and consists of low rolling hills with grasses as the dominant vegetation (presumably fallow agricultural fields). The dense patch of trees/tree line and related vegetation shown along US Highway 127 partially screen views of the site from this location.

Project Views: As shown in the adjacent photo, portions of the proposed solar arrays are expected to be partially visible from this viewpoint (see orange shaded areas which approximate the footprint/visible portions of the new solar arrays). While the solar arrays would be partially visible through the gaps in vegetation bordering US Highway 127/the site perimeter, the majority of the solar panels would be obstructed from view by the existing tall trees/vegetation. Additionally, due to the low-lying nature of the solar array infrastructure, the panels would not be distracting to viewers from this location, nor would they be incompatible or incongruous with the surrounding environment.

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

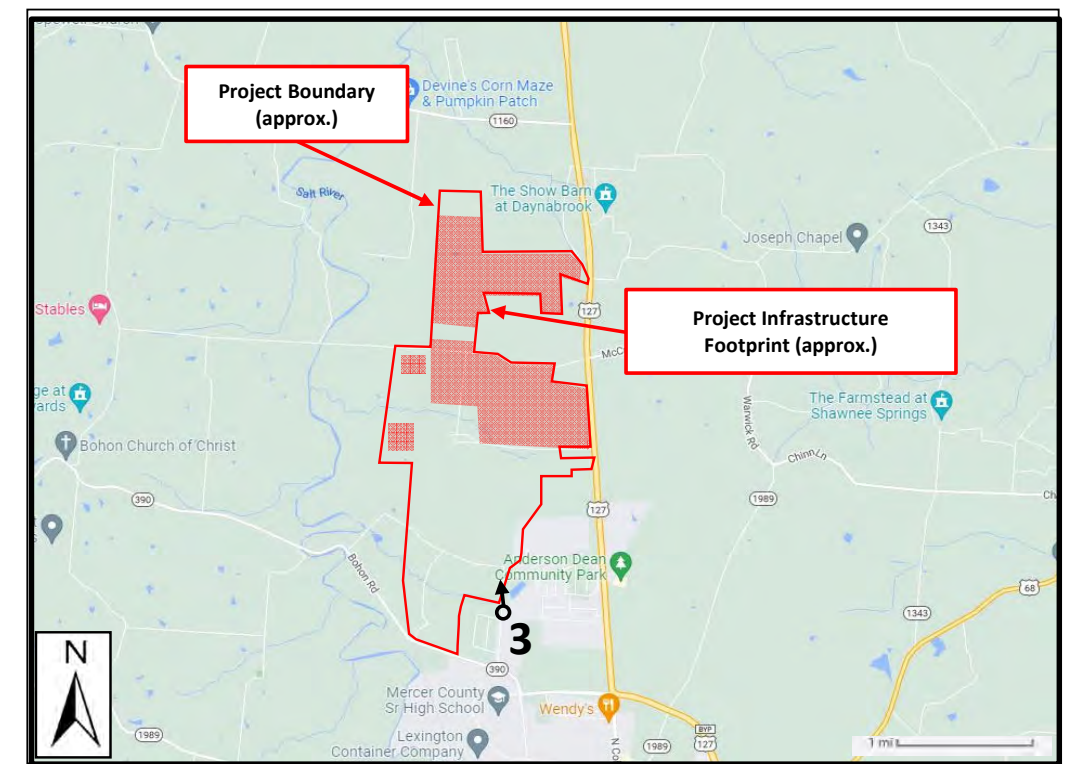


VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #2		
#2	Site Assessment Report US Highway 127 (Louisville Road) Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from the end of Fontaine Trace

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	2
Water	0
Color	2
Influence of Adjacent Scenery	2
Scarcity	1
Cultural Modifications	-2
TOTAL	7



Project View from the end Fontaine Trace

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	1
Water	0
Color	2
Influence of Adjacent	2
Scarcity	1
Cultural Modifications	-2
TOTAL	6

Viewpoint #3 - Views from Fontaine Trace

Existing/Baseline Views: As shown in the adjacent photo, the site is currently undeveloped and consists of low rolling hills with a cluster/ribbon of various different riparian trees that generally screen views of the site from this location. However, portions of the site would be visible between gaps in this existing vegetation.

Project Views: As shown in the adjacent photo, the proposed facility would not be visible from this location. Due to the large distance to this viewpoint, the facility would be fully obscured from view by existing topography and vegetation..

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

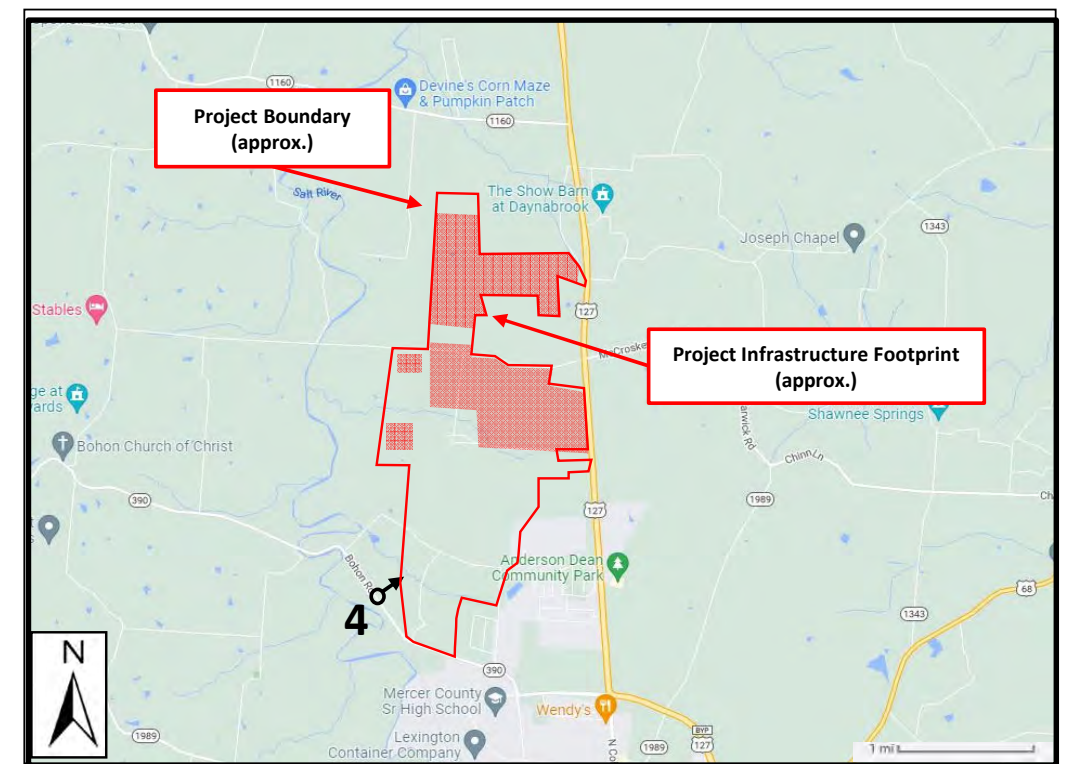


VIEWPOINT #3	LKE SOLAR PROJECT - VIEWPOINT #3		
	Site Assessment Report Fontaine Trace Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from Kentucky Route 390 (Bohon Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	1
Influence of Adjacent Scenery	1
Scarcity	1
Cultural Modifications	-2
TOTAL	4



Project View from Kentucky Route 390 (Bohon Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	1
Influence of Adjacent	1
Scarcity	1
Cultural Modifications	-2
TOTAL	4

Viewpoint #4 - Views from Kentucky Route 390 (Bohon Road)

Existing/Baseline Views: As shown in the adjacent photo, the site is not visible from this viewpoint. Due to the relatively large distance between the viewpoint and the Project site, as well as the intervening hillside and tall standing vegetation, the site is obscured from view at this location.

Project Views: As shown in the adjacent photo, the proposed solar array/related onsite infrastructure would not be visible from this location. Due to the distance and intervening topography and vegetation between this viewpoint and the Project site, the low-lying solar arrays are expected to be fully obstructed from view at this location.

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

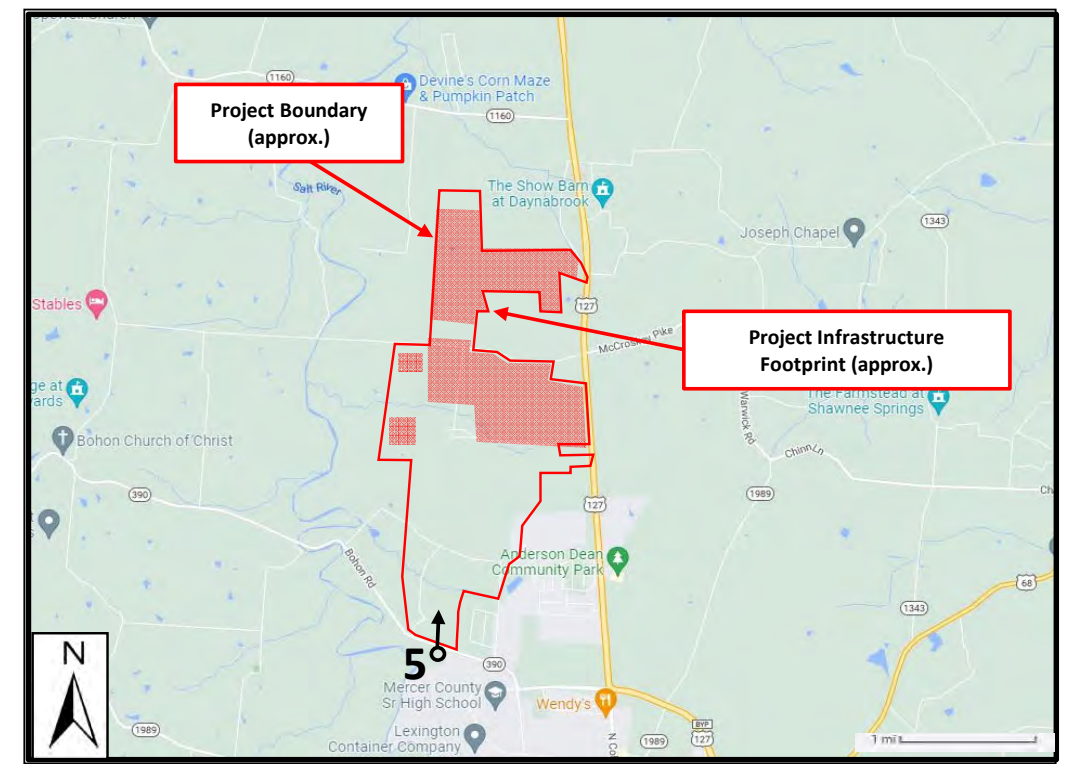


VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #4		
#4	Site Assessment Report Kentucky Route 390 (Bohon Road) Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from Kentucky Route 390 (Bohon Road)

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	2
Water	0
Color	3
Influence of Adjacent Scenery	1
Scarcity	1
Cultural Modifications	-1
TOTAL	8



Viewpoint #5 - Views from Kentucky Route 390 (Bohon Road)

Existing/Baseline Views: As shown in the adjacent photo, the site is currently undeveloped and consists of low rolling hills, with grasses as the dominant vegetation (presumably fallow agricultural fields). The tree line boarding Kentucky Route 390 is sparse, and as such portions of the site would be visible between gaps in the vegetation.

Project Views: As shown in the adjacent photo, the proposed facility would not be visible from this location. Due to the large distance to this viewpoint, the facility would be fully obscured from view by existing topography and vegetation.



Project View from Kentucky Route 390 (Bohon Road)

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	1
Water	0
Color	1
Influence of Adjacent	1
Scarcity	1
Cultural Modifications	-2
TOTAL	5

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

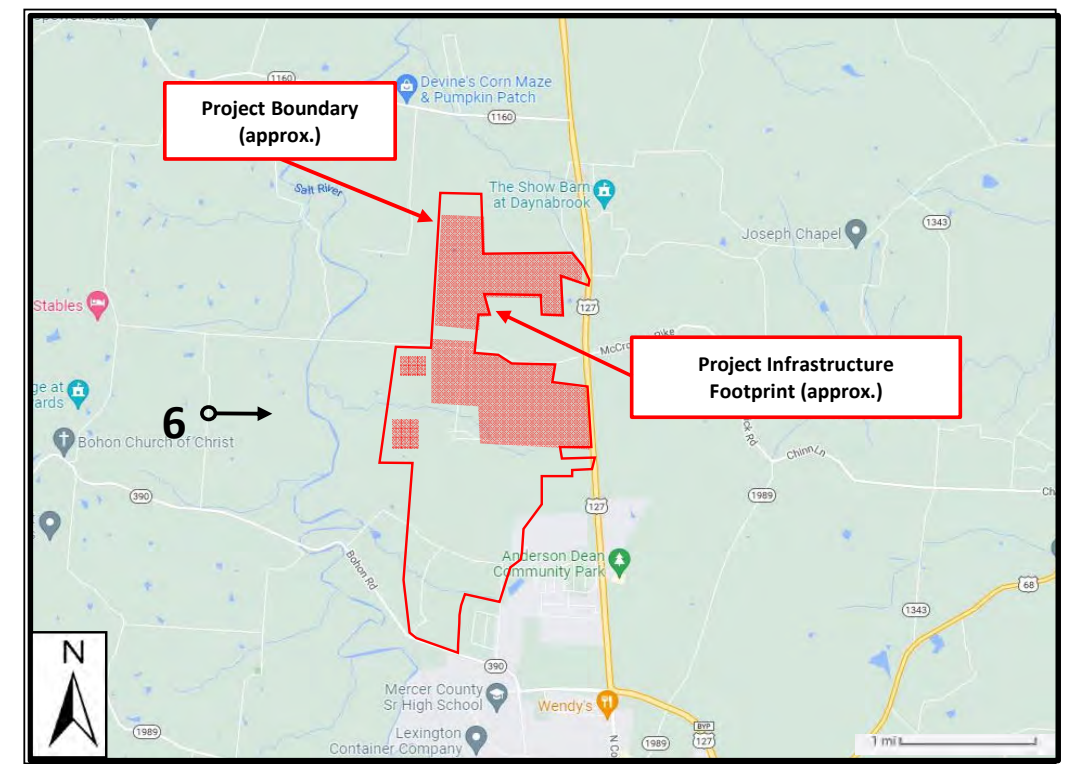


VIEWPOINT #5	LKE SOLAR PROJECT - VIEWPOINT #5		
	Site Assessment Report Kentucky Route 390 (Bohon Road) Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from Jim Forsythe Lane

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	3
Water	0
Color	2
Influence of Adjacent Scenery	1
Scarcity	2
Cultural Modifications	-2
TOTAL	8



Viewpoint #6 - Views from Jim Forsythe Lane

Existing/Baseline Views: As shown in the adjacent photo, the site would not be visible from this location. Due to the relatively large distance as well as the intervening topography and vegetation, views of the proposed onsite infrastructure would be completely obstruct from this location.

Project Views: As shown in the adjacent photo, the proposed onsite infrastructure is expected to not be visible from Jim Forsythe Lane. This is due to the large distance between this viewpoint and the site, as well as the intervening vegetation, which would remain.



Project View from Jim Forsythe Lane

Key Factors	Ratings Criteria Score
Landform	2
Vegetation	3
Water	0
Color	2
Influence of Adjacent	1
Scarcity	2
Cultural Modifications	-2
TOTAL	8

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

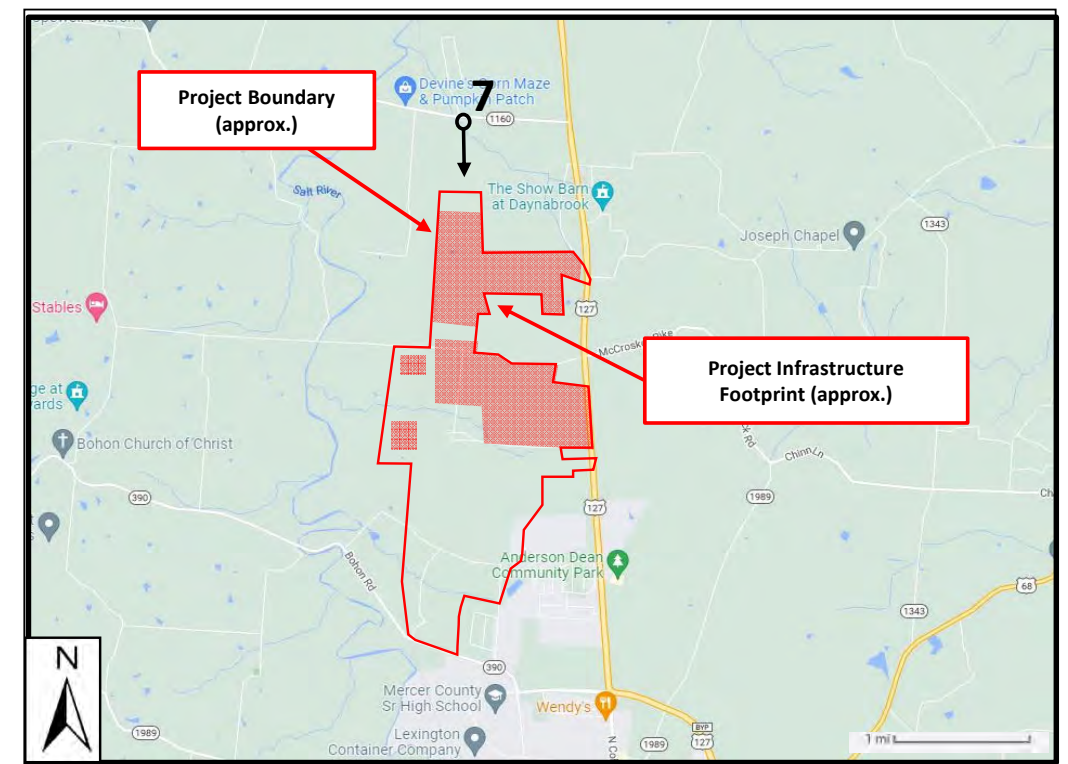


VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #6		
#6	Site Assessment Report Jim Forsythe Lane Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from Kentucky Route 1160 (Talmage Mayo Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	1
Color	2
Influence of Adjacent Scenery	1
Scarcity	1
Cultural Modifications	-2
TOTAL	6



Project View from Kentucky Route 1160 (Talmage Mayo Road)

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	1
Color	2
Influence of Adjacent	1
Scarcity	1
Cultural Modifications	-2
TOTAL	6

Viewpoint #7 - Views from Kentucky Route 1160 (Talmage Mayo Road)

Existing/Baseline Views: As shown in the adjacent photo, the site would not be visible from this viewpoint. Due to the large distance between this viewpoint, as well as the intervening vegetation and slight topographic relief, the site is generally obscured from view at this location.

Project Views: As shown in the adjacent photo, the solar arrays/related onsite infrastructure are not expected to be visible from this location. Due to the distance between this viewpoint and the proposed onsite infrastructure, as well as the intervening topography and vegetation, onsite infrastructure would be fully obscured from public view.

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).

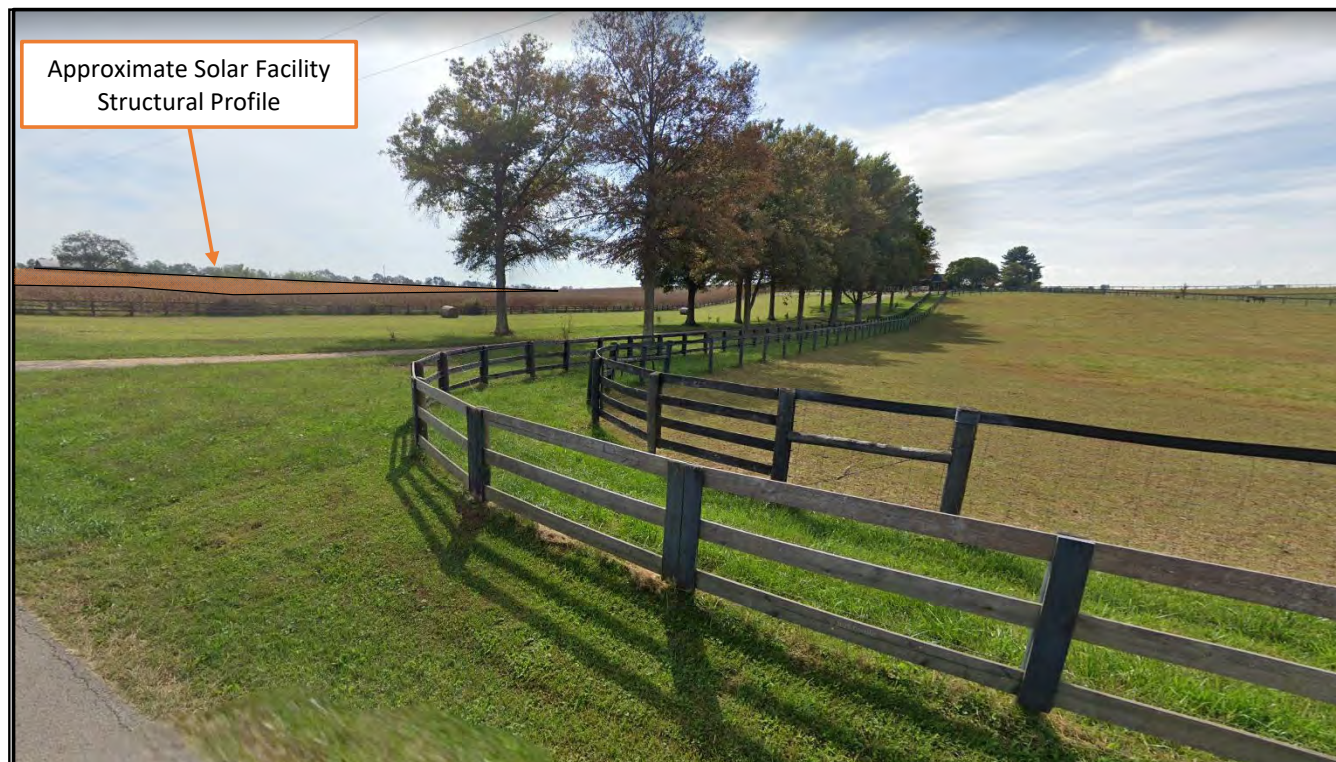
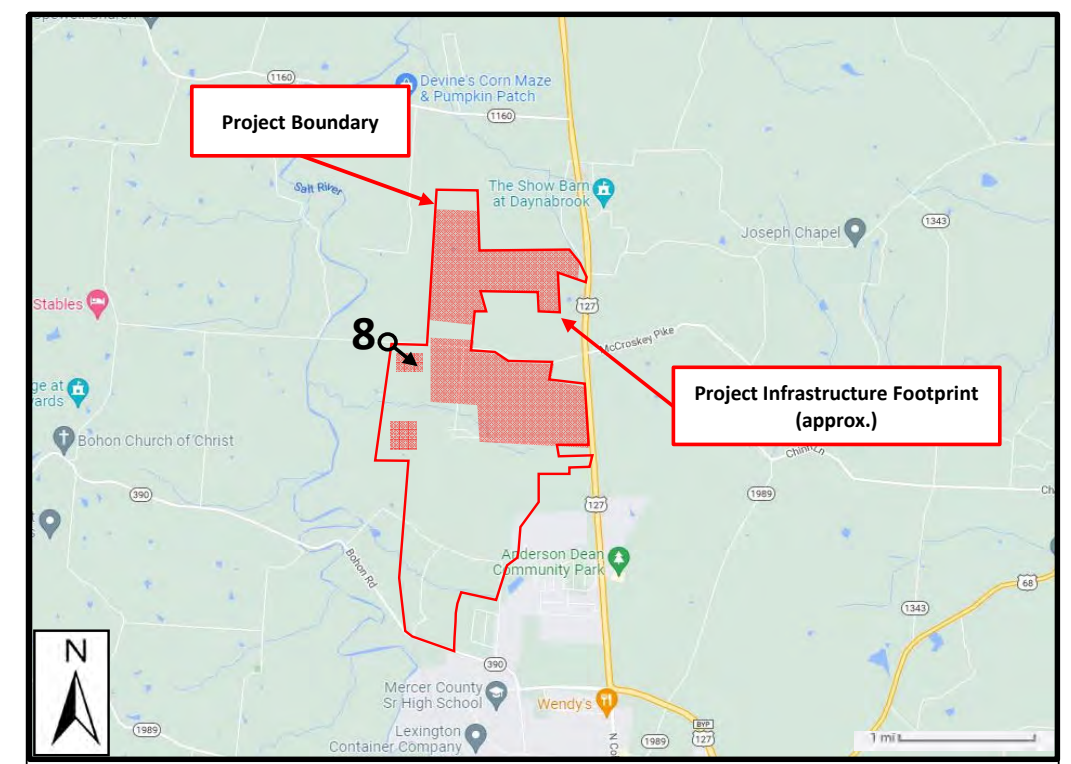


VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #7		
#7	Site Assessment Report Kentucky Route 1160 (Talmage Mayo Road) Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL



Existing/Baseline View from Jackson Pike

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	2
Influence of Adjacent Scenery	2
Scarcity	1
Cultural Modifications	-2
TOTAL	6



Project View from Jackson Pike

Key Factors	Ratings Criteria Score
Landform	1
Vegetation	2
Water	0
Color	1
Influence of Adjacent	2
Scarcity	1
Cultural Modifications	-3
TOTAL	4

Viewpoint #8 - Views from Jackson Pike

Existing/Baseline Views: As shown in the adjacent photo, the site currently consists of vineyards and a perimeter fence/tree line. To the east, along the horizon, is another tree line bordering the Norfolk Railroad extension.

Project Views: As shown in the adjacent photo, the proposed solar arrays are expected to be visible from this viewpoint (see orange shaded areas which approximate the footprint/visible portions of the new solar arrays). While the solar arrays/related infrastructure would be partially visible, the onsite facilities would be setback from the property line. Due to this setback distance, as well as the fact that the proposed solar arrays would have a relatively low structural profile, intervening vegetation and the perimeter fence would screen the majority of the proposed onsite infrastructure from this location.

Note: The rating system/scores shown above are based on the U.S. Bureau of Land Management's (BLM) Visual Resources Management (VRM) & Contrast Rating System(s).



VIEWPOINT	LKE SOLAR PROJECT - VIEWPOINT #8		
#8	Site Assessment Report Jackson Pike Road Mercer County, Kentucky		
PROJECT #:	221801.0123	DATE:	5/30/23
SCALE:	N/A	DRAWN BY:	MNL

FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - OP 1-40**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91952.16149

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 V2

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0
OP 40	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

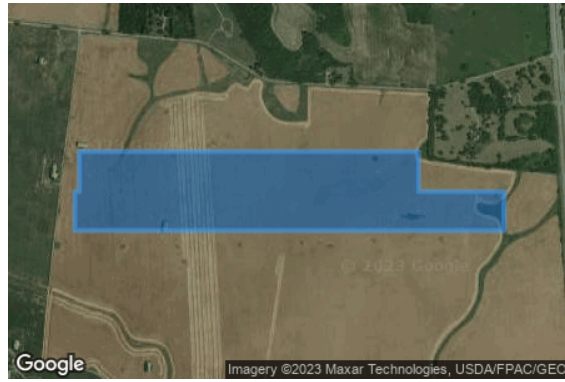
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

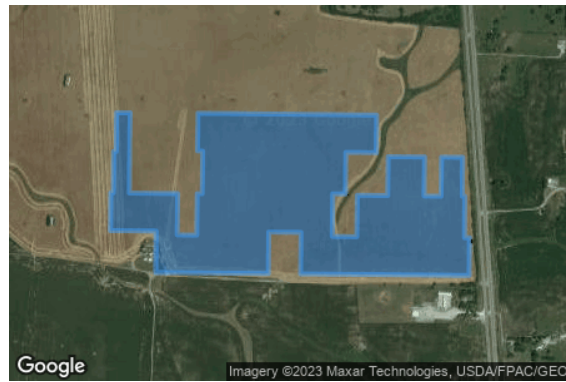
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

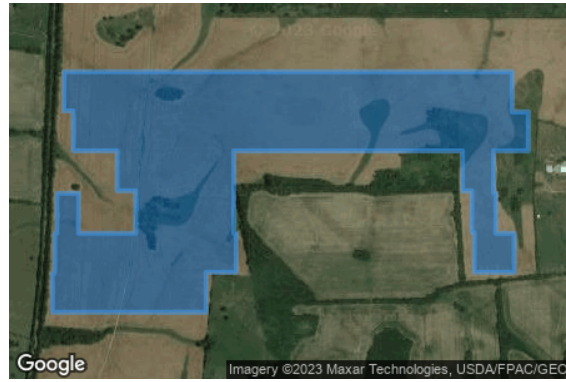
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 1	1	37.849458	-84.870705	875.19	8.00
OP 2	2	37.851127	-84.870212	825.40	8.00
OP 3	3	37.850347	-84.868570	827.86	8.00
OP 4	4	37.850330	-84.867873	813.89	8.00
OP 5	5	37.850262	-84.866135	809.88	8.00
OP 6	6	37.850178	-84.864386	819.42	8.00
OP 7	7	37.850102	-84.862648	827.01	8.00
OP 8	8	37.850000	-84.859751	830.75	8.00
OP 9	9	37.849864	-84.856790	837.35	8.00
OP 10	10	37.849974	-84.854977	848.41	8.00
OP 11	11	37.849708	-84.853105	870.14	8.00
OP 12	12	37.849771	-84.850766	877.01	8.00
OP 13	13	37.847772	-84.849993	877.67	8.00
OP 14	14	37.847314	-84.851175	853.91	8.00
OP 15	15	37.845069	-84.855529	829.61	8.00
OP 16	16	37.841795	-84.851785	843.36	8.00
OP 17	17	37.840765	-84.852085	851.35	8.00
OP 18	18	37.839481	-84.858164	877.39	8.00
OP 19	19	37.836829	-84.859065	889.62	8.00
OP 20	20	37.836456	-84.861463	870.70	8.00
OP 21	21	37.838366	-84.852163	846.47	8.00
OP 22	22	37.836235	-84.850918	849.74	8.00
OP 23	23	37.834821	-84.845606	900.30	8.00
OP 24	24	37.834703	-84.840671	918.66	8.00
OP 25	25	37.832238	-84.850238	876.16	8.00
OP 26	26	37.830378	-84.850045	889.81	8.00
OP 27	27	37.829392	-84.848608	899.82	8.00
OP 28	28	37.828664	-84.848388	896.16	8.00
OP 29	29	37.827825	-84.848468	897.81	8.00
OP 30	30	37.827075	-84.848887	903.87	8.00
OP 31	31	37.826113	-84.849257	884.99	8.00
OP 32	32	37.826100	-84.851317	875.61	8.00
OP 33	33	37.825130	-84.849327	877.36	8.00
OP 34	34	37.824443	-84.848586	881.19	8.00
OP 35	35	37.824949	-84.863618	891.57	8.00
OP 36	36	37.824465	-84.861074	899.96	8.00
OP 37	37	37.823355	-84.857244	890.32	8.00
OP 38	38	37.821647	-84.852534	892.56	8.00
OP 39	39	37.822702	-84.851209	908.06	8.00
OP 40	40	37.820474	-84.848705	915.69	8.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0
OP 40	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0
OP 40	0	0.0	0	0.0

Array 1 and OP 1

No glare found

Array 1 and OP 2

No glare found

Array 1 and OP 3

No glare found

Array 1 and OP 4

No glare found

Array 1 and OP 5

No glare found

Array 1 and OP 6

No glare found

Array 1 and OP 7

No glare found

Array 1 and OP 8

No glare found

Array 1 and OP 9

No glare found

Array 1 and OP 10

No glare found

Array 1 and OP 11

No glare found

Array 1 and OP 12

No glare found

Array 1 and OP 13

No glare found

Array 1 and OP 14

No glare found

Array 1 and OP 15

No glare found

Array 1 and OP 16

No glare found

Array 1 and OP 17

No glare found

Array 1 and OP 18

No glare found

Array 1 and OP 19

No glare found

Array 1 and OP 20

No glare found

Array 1 and OP 21

No glare found

Array 1 and OP 22

No glare found

Array 1 and OP 23

No glare found

Array 1 and OP 24

No glare found

Array 1 and OP 25

No glare found

Array 1 and OP 26

No glare found

Array 1 and OP 27

No glare found

Array 1 and OP 28

No glare found

Array 1 and OP 29

No glare found

Array 1 and OP 30

No glare found

Array 1 and OP 31

No glare found

Array 1 and OP 32

No glare found

Array 1 and OP 33

No glare found

Array 1 and OP 34

No glare found

Array 1 and OP 35

No glare found

Array 1 and OP 36

No glare found

Array 1 and OP 37

No glare found

Array 1 and OP 38

No glare found

Array 1 and OP 39

No glare found

Array 1 and OP 40

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 10 and OP 1

No glare found

Array 10 and OP 2

No glare found

Array 10 and OP 3

No glare found

Array 10 and OP 4

No glare found

Array 10 and OP 5

No glare found

Array 10 and OP 6

No glare found

Array 10 and OP 7

No glare found

Array 10 and OP 8

No glare found

Array 10 and OP 9

No glare found

Array 10 and OP 10

No glare found

Array 10 and OP 11

No glare found

Array 10 and OP 12

No glare found

Array 10 and OP 13

No glare found

Array 10 and OP 14

No glare found

Array 10 and OP 15

No glare found

Array 10 and OP 16

No glare found

Array 10 and OP 17

No glare found

Array 10 and OP 18

No glare found

Array 10 and OP 19

No glare found

Array 10 and OP 20

No glare found

Array 10 and OP 21

No glare found

Array 10 and OP 22

No glare found

Array 10 and OP 23

No glare found

Array 10 and OP 24

No glare found

Array 10 and OP 25

No glare found

Array 10 and OP 26

No glare found

Array 10 and OP 27

No glare found

Array 10 and OP 28

No glare found

Array 10 and OP 29

No glare found

Array 10 and OP 30

No glare found

Array 10 and OP 31

No glare found

Array 10 and OP 32

No glare found

Array 10 and OP 33

No glare found

Array 10 and OP 34

No glare found

Array 10 and OP 35

No glare found

Array 10 and OP 36

No glare found

Array 10 and OP 37

No glare found

Array 10 and OP 38

No glare found

Array 10 and OP 39

No glare found

Array 10 and OP 40

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 11 and OP 1

No glare found

Array 11 and OP 2

No glare found

Array 11 and OP 3

No glare found

Array 11 and OP 4

No glare found

Array 11 and OP 5

No glare found

Array 11 and OP 6

No glare found

Array 11 and OP 7

No glare found

Array 11 and OP 8

No glare found

Array 11 and OP 9

No glare found

Array 11 and OP 10

No glare found

Array 11 and OP 11

No glare found

Array 11 and OP 12

No glare found

Array 11 and OP 13

No glare found

Array 11 and OP 14

No glare found

Array 11 and OP 15

No glare found

Array 11 and OP 16

No glare found

Array 11 and OP 17

No glare found

Array 11 and OP 18

No glare found

Array 11 and OP 19

No glare found

Array 11 and OP 20

No glare found

Array 11 and OP 21

No glare found

Array 11 and OP 22

No glare found

Array 11 and OP 23

No glare found

Array 11 and OP 24

No glare found

Array 11 and OP 25

No glare found

Array 11 and OP 26

No glare found

Array 11 and OP 27

No glare found

Array 11 and OP 28

No glare found

Array 11 and OP 29

No glare found

Array 11 and OP 30

No glare found

Array 11 and OP 31

No glare found

Array 11 and OP 32

No glare found

Array 11 and OP 33

No glare found

Array 11 and OP 34

No glare found

Array 11 and OP 35

No glare found

Array 11 and OP 36

No glare found

Array 11 and OP 37

No glare found

Array 11 and OP 38

No glare found

Array 11 and OP 39

No glare found

Array 11 and OP 40

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 12 and OP 1

No glare found

Array 12 and OP 2

No glare found

Array 12 and OP 3

No glare found

Array 12 and OP 4

No glare found

Array 12 and OP 5

No glare found

Array 12 and OP 6

No glare found

Array 12 and OP 7

No glare found

Array 12 and OP 8

No glare found

Array 12 and OP 9

No glare found

Array 12 and OP 10

No glare found

Array 12 and OP 11

No glare found

Array 12 and OP 12

No glare found

Array 12 and OP 13

No glare found

Array 12 and OP 14

No glare found

Array 12 and OP 15

No glare found

Array 12 and OP 16

No glare found

Array 12 and OP 17

No glare found

Array 12 and OP 18

No glare found

Array 12 and OP 19

No glare found

Array 12 and OP 20

No glare found

Array 12 and OP 21

No glare found

Array 12 and OP 22

No glare found

Array 12 and OP 23

No glare found

Array 12 and OP 24

No glare found

Array 12 and OP 25

No glare found

Array 12 and OP 26

No glare found

Array 12 and OP 27

No glare found

Array 12 and OP 28

No glare found

Array 12 and OP 29

No glare found

Array 12 and OP 30

No glare found

Array 12 and OP 31

No glare found

Array 12 and OP 32

No glare found

Array 12 and OP 33

No glare found

Array 12 and OP 34

No glare found

Array 12 and OP 35

No glare found

Array 12 and OP 36

No glare found

Array 12 and OP 37

No glare found

Array 12 and OP 38

No glare found

Array 12 and OP 39

No glare found

Array 12 and OP 40

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 13 and OP 1

No glare found

Array 13 and OP 2

No glare found

Array 13 and OP 3

No glare found

Array 13 and OP 4

No glare found

Array 13 and OP 5

No glare found

Array 13 and OP 6

No glare found

Array 13 and OP 7

No glare found

Array 13 and OP 8

No glare found

Array 13 and OP 9

No glare found

Array 13 and OP 10

No glare found

Array 13 and OP 11

No glare found

Array 13 and OP 12

No glare found

Array 13 and OP 13

No glare found

Array 13 and OP 14

No glare found

Array 13 and OP 15

No glare found

Array 13 and OP 16

No glare found

Array 13 and OP 17

No glare found

Array 13 and OP 18

No glare found

Array 13 and OP 19

No glare found

Array 13 and OP 20

No glare found

Array 13 and OP 21

No glare found

Array 13 and OP 22

No glare found

Array 13 and OP 23

No glare found

Array 13 and OP 24

No glare found

Array 13 and OP 25

No glare found

Array 13 and OP 26

No glare found

Array 13 and OP 27

No glare found

Array 13 and OP 28

No glare found

Array 13 and OP 29

No glare found

Array 13 and OP 30

No glare found

Array 13 and OP 31

No glare found

Array 13 and OP 32

No glare found

Array 13 and OP 33

No glare found

Array 13 and OP 34

No glare found

Array 13 and OP 35

No glare found

Array 13 and OP 36

No glare found

Array 13 and OP 37

No glare found

Array 13 and OP 38

No glare found

Array 13 and OP 39

No glare found

Array 13 and OP 40

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 14 and OP 1

No glare found

Array 14 and OP 2

No glare found

Array 14 and OP 3

No glare found

Array 14 and OP 4

No glare found

Array 14 and OP 5

No glare found

Array 14 and OP 6

No glare found

Array 14 and OP 7

No glare found

Array 14 and OP 8

No glare found

Array 14 and OP 9

No glare found

Array 14 and OP 10

No glare found

Array 14 and OP 11

No glare found

Array 14 and OP 12

No glare found

Array 14 and OP 13

No glare found

Array 14 and OP 14

No glare found

Array 14 and OP 15

No glare found

Array 14 and OP 16

No glare found

Array 14 and OP 17

No glare found

Array 14 and OP 18

No glare found

Array 14 and OP 19

No glare found

Array 14 and OP 20

No glare found

Array 14 and OP 21

No glare found

Array 14 and OP 22

No glare found

Array 14 and OP 23

No glare found

Array 14 and OP 24

No glare found

Array 14 and OP 25

No glare found

Array 14 and OP 26

No glare found

Array 14 and OP 27

No glare found

Array 14 and OP 28

No glare found

Array 14 and OP 29

No glare found

Array 14 and OP 30

No glare found

Array 14 and OP 31

No glare found

Array 14 and OP 32

No glare found

Array 14 and OP 33

No glare found

Array 14 and OP 34

No glare found

Array 14 and OP 35

No glare found

Array 14 and OP 36

No glare found

Array 14 and OP 37

No glare found

Array 14 and OP 38

No glare found

Array 14 and OP 39

No glare found

Array 14 and OP 40

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 15 and OP 1

No glare found

Array 15 and OP 2

No glare found

Array 15 and OP 3

No glare found

Array 15 and OP 4

No glare found

Array 15 and OP 5

No glare found

Array 15 and OP 6

No glare found

Array 15 and OP 7

No glare found

Array 15 and OP 8

No glare found

Array 15 and OP 9

No glare found

Array 15 and OP 10

No glare found

Array 15 and OP 11

No glare found

Array 15 and OP 12

No glare found

Array 15 and OP 13

No glare found

Array 15 and OP 14

No glare found

Array 15 and OP 15

No glare found

Array 15 and OP 16

No glare found

Array 15 and OP 17

No glare found

Array 15 and OP 18

No glare found

Array 15 and OP 19

No glare found

Array 15 and OP 20

No glare found

Array 15 and OP 21

No glare found

Array 15 and OP 22

No glare found

Array 15 and OP 23

No glare found

Array 15 and OP 24

No glare found

Array 15 and OP 25

No glare found

Array 15 and OP 26

No glare found

Array 15 and OP 27

No glare found

Array 15 and OP 28

No glare found

Array 15 and OP 29

No glare found

Array 15 and OP 30

No glare found

Array 15 and OP 31

No glare found

Array 15 and OP 32

No glare found

Array 15 and OP 33

No glare found

Array 15 and OP 34

No glare found

Array 15 and OP 35

No glare found

Array 15 and OP 36

No glare found

Array 15 and OP 37

No glare found

Array 15 and OP 38

No glare found

Array 15 and OP 39

No glare found

Array 15 and OP 40

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 16 and OP 1

No glare found

Array 16 and OP 2

No glare found

Array 16 and OP 3

No glare found

Array 16 and OP 4

No glare found

Array 16 and OP 5

No glare found

Array 16 and OP 6

No glare found

Array 16 and OP 7

No glare found

Array 16 and OP 8

No glare found

Array 16 and OP 9

No glare found

Array 16 and OP 10

No glare found

Array 16 and OP 11

No glare found

Array 16 and OP 12

No glare found

Array 16 and OP 13

No glare found

Array 16 and OP 14

No glare found

Array 16 and OP 15

No glare found

Array 16 and OP 16

No glare found

Array 16 and OP 17

No glare found

Array 16 and OP 18

No glare found

Array 16 and OP 19

No glare found

Array 16 and OP 20

No glare found

Array 16 and OP 21

No glare found

Array 16 and OP 22

No glare found

Array 16 and OP 23

No glare found

Array 16 and OP 24

No glare found

Array 16 and OP 25

No glare found

Array 16 and OP 26

No glare found

Array 16 and OP 27

No glare found

Array 16 and OP 28

No glare found

Array 16 and OP 29

No glare found

Array 16 and OP 30

No glare found

Array 16 and OP 31

No glare found

Array 16 and OP 32

No glare found

Array 16 and OP 33

No glare found

Array 16 and OP 34

No glare found

Array 16 and OP 35

No glare found

Array 16 and OP 36

No glare found

Array 16 and OP 37

No glare found

Array 16 and OP 38

No glare found

Array 16 and OP 39

No glare found

Array 16 and OP 40

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 2 and OP 1

No glare found

Array 2 and OP 2

No glare found

Array 2 and OP 3

No glare found

Array 2 and OP 4

No glare found

Array 2 and OP 5

No glare found

Array 2 and OP 6

No glare found

Array 2 and OP 7

No glare found

Array 2 and OP 8

No glare found

Array 2 and OP 9

No glare found

Array 2 and OP 10

No glare found

Array 2 and OP 11

No glare found

Array 2 and OP 12

No glare found

Array 2 and OP 13

No glare found

Array 2 and OP 14

No glare found

Array 2 and OP 15

No glare found

Array 2 and OP 16

No glare found

Array 2 and OP 17

No glare found

Array 2 and OP 18

No glare found

Array 2 and OP 19

No glare found

Array 2 and OP 20

No glare found

Array 2 and OP 21

No glare found

Array 2 and OP 22

No glare found

Array 2 and OP 23

No glare found

Array 2 and OP 24

No glare found

Array 2 and OP 25

No glare found

Array 2 and OP 26

No glare found

Array 2 and OP 27

No glare found

Array 2 and OP 28

No glare found

Array 2 and OP 29

No glare found

Array 2 and OP 30

No glare found

Array 2 and OP 31

No glare found

Array 2 and OP 32

No glare found

Array 2 and OP 33

No glare found

Array 2 and OP 34

No glare found

Array 2 and OP 35

No glare found

Array 2 and OP 36

No glare found

Array 2 and OP 37

No glare found

Array 2 and OP 38

No glare found

Array 2 and OP 39

No glare found

Array 2 and OP 40

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 3 and OP 1

No glare found

Array 3 and OP 2

No glare found

Array 3 and OP 3

No glare found

Array 3 and OP 4

No glare found

Array 3 and OP 5

No glare found

Array 3 and OP 6

No glare found

Array 3 and OP 7

No glare found

Array 3 and OP 8

No glare found

Array 3 and OP 9

No glare found

Array 3 and OP 10

No glare found

Array 3 and OP 11

No glare found

Array 3 and OP 12

No glare found

Array 3 and OP 13

No glare found

Array 3 and OP 14

No glare found

Array 3 and OP 15

No glare found

Array 3 and OP 16

No glare found

Array 3 and OP 17

No glare found

Array 3 and OP 18

No glare found

Array 3 and OP 19

No glare found

Array 3 and OP 20

No glare found

Array 3 and OP 21

No glare found

Array 3 and OP 22

No glare found

Array 3 and OP 23

No glare found

Array 3 and OP 24

No glare found

Array 3 and OP 25

No glare found

Array 3 and OP 26

No glare found

Array 3 and OP 27

No glare found

Array 3 and OP 28

No glare found

Array 3 and OP 29

No glare found

Array 3 and OP 30

No glare found

Array 3 and OP 31

No glare found

Array 3 and OP 32

No glare found

Array 3 and OP 33

No glare found

Array 3 and OP 34

No glare found

Array 3 and OP 35

No glare found

Array 3 and OP 36

No glare found

Array 3 and OP 37

No glare found

Array 3 and OP 38

No glare found

Array 3 and OP 39

No glare found

Array 3 and OP 40

No glare found

PV: Array 4 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 4 and OP 1

No glare found

Array 4 and OP 2

No glare found

Array 4 and OP 3

No glare found

Array 4 and OP 4

No glare found

Array 4 and OP 5

No glare found

Array 4 and OP 6

No glare found

Array 4 and OP 7

No glare found

Array 4 and OP 8

No glare found

Array 4 and OP 9

No glare found

Array 4 and OP 10

No glare found

Array 4 and OP 11

No glare found

Array 4 and OP 12

No glare found

Array 4 and OP 13

No glare found

Array 4 and OP 14

No glare found

Array 4 and OP 15

No glare found

Array 4 and OP 16

No glare found

Array 4 and OP 17

No glare found

Array 4 and OP 18

No glare found

Array 4 and OP 19

No glare found

Array 4 and OP 20

No glare found

Array 4 and OP 21

No glare found

Array 4 and OP 22

No glare found

Array 4 and OP 23

No glare found

Array 4 and OP 24

No glare found

Array 4 and OP 25

No glare found

Array 4 and OP 26

No glare found

Array 4 and OP 27

No glare found

Array 4 and OP 28

No glare found

Array 4 and OP 29

No glare found

Array 4 and OP 30

No glare found

Array 4 and OP 31

No glare found

Array 4 and OP 32

No glare found

Array 4 and OP 33

No glare found

Array 4 and OP 34

No glare found

Array 4 and OP 35

No glare found

Array 4 and OP 36

No glare found

Array 4 and OP 37

No glare found

Array 4 and OP 38

No glare found

Array 4 and OP 39

No glare found

Array 4 and OP 40

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 5 and OP 1

No glare found

Array 5 and OP 2

No glare found

Array 5 and OP 3

No glare found

Array 5 and OP 4

No glare found

Array 5 and OP 5

No glare found

Array 5 and OP 6

No glare found

Array 5 and OP 7

No glare found

Array 5 and OP 8

No glare found

Array 5 and OP 9

No glare found

Array 5 and OP 10

No glare found

Array 5 and OP 11

No glare found

Array 5 and OP 12

No glare found

Array 5 and OP 13

No glare found

Array 5 and OP 14

No glare found

Array 5 and OP 15

No glare found

Array 5 and OP 16

No glare found

Array 5 and OP 17

No glare found

Array 5 and OP 18

No glare found

Array 5 and OP 19

No glare found

Array 5 and OP 20

No glare found

Array 5 and OP 21

No glare found

Array 5 and OP 22

No glare found

Array 5 and OP 23

No glare found

Array 5 and OP 24

No glare found

Array 5 and OP 25

No glare found

Array 5 and OP 26

No glare found

Array 5 and OP 27

No glare found

Array 5 and OP 28

No glare found

Array 5 and OP 29

No glare found

Array 5 and OP 30

No glare found

Array 5 and OP 31

No glare found

Array 5 and OP 32

No glare found

Array 5 and OP 33

No glare found

Array 5 and OP 34

No glare found

Array 5 and OP 35

No glare found

Array 5 and OP 36

No glare found

Array 5 and OP 37

No glare found

Array 5 and OP 38

No glare found

Array 5 and OP 39

No glare found

Array 5 and OP 40

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 6 and OP 1

No glare found

Array 6 and OP 2

No glare found

Array 6 and OP 3

No glare found

Array 6 and OP 4

No glare found

Array 6 and OP 5

No glare found

Array 6 and OP 6

No glare found

Array 6 and OP 7

No glare found

Array 6 and OP 8

No glare found

Array 6 and OP 9

No glare found

Array 6 and OP 10

No glare found

Array 6 and OP 11

No glare found

Array 6 and OP 12

No glare found

Array 6 and OP 13

No glare found

Array 6 and OP 14

No glare found

Array 6 and OP 15

No glare found

Array 6 and OP 16

No glare found

Array 6 and OP 17

No glare found

Array 6 and OP 18

No glare found

Array 6 and OP 19

No glare found

Array 6 and OP 20

No glare found

Array 6 and OP 21

No glare found

Array 6 and OP 22

No glare found

Array 6 and OP 23

No glare found

Array 6 and OP 24

No glare found

Array 6 and OP 25

No glare found

Array 6 and OP 26

No glare found

Array 6 and OP 27

No glare found

Array 6 and OP 28

No glare found

Array 6 and OP 29

No glare found

Array 6 and OP 30

No glare found

Array 6 and OP 31

No glare found

Array 6 and OP 32

No glare found

Array 6 and OP 33

No glare found

Array 6 and OP 34

No glare found

Array 6 and OP 35

No glare found

Array 6 and OP 36

No glare found

Array 6 and OP 37

No glare found

Array 6 and OP 38

No glare found

Array 6 and OP 39

No glare found

Array 6 and OP 40

No glare found

PV: Array 7 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 7 and OP 1

No glare found

Array 7 and OP 2

No glare found

Array 7 and OP 3

No glare found

Array 7 and OP 4

No glare found

Array 7 and OP 5

No glare found

Array 7 and OP 6

No glare found

Array 7 and OP 7

No glare found

Array 7 and OP 8

No glare found

Array 7 and OP 9

No glare found

Array 7 and OP 10

No glare found

Array 7 and OP 11

No glare found

Array 7 and OP 12

No glare found

Array 7 and OP 13

No glare found

Array 7 and OP 14

No glare found

Array 7 and OP 15

No glare found

Array 7 and OP 16

No glare found

Array 7 and OP 17

No glare found

Array 7 and OP 18

No glare found

Array 7 and OP 19

No glare found

Array 7 and OP 20

No glare found

Array 7 and OP 21

No glare found

Array 7 and OP 22

No glare found

Array 7 and OP 23

No glare found

Array 7 and OP 24

No glare found

Array 7 and OP 25

No glare found

Array 7 and OP 26

No glare found

Array 7 and OP 27

No glare found

Array 7 and OP 28

No glare found

Array 7 and OP 29

No glare found

Array 7 and OP 30

No glare found

Array 7 and OP 31

No glare found

Array 7 and OP 32

No glare found

Array 7 and OP 33

No glare found

Array 7 and OP 34

No glare found

Array 7 and OP 35

No glare found

Array 7 and OP 36

No glare found

Array 7 and OP 37

No glare found

Array 7 and OP 38

No glare found

Array 7 and OP 39

No glare found

Array 7 and OP 40

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 8 and OP 1

No glare found

Array 8 and OP 2

No glare found

Array 8 and OP 3

No glare found

Array 8 and OP 4

No glare found

Array 8 and OP 5

No glare found

Array 8 and OP 6

No glare found

Array 8 and OP 7

No glare found

Array 8 and OP 8

No glare found

Array 8 and OP 9

No glare found

Array 8 and OP 10

No glare found

Array 8 and OP 11

No glare found

Array 8 and OP 12

No glare found

Array 8 and OP 13

No glare found

Array 8 and OP 14

No glare found

Array 8 and OP 15

No glare found

Array 8 and OP 16

No glare found

Array 8 and OP 17

No glare found

Array 8 and OP 18

No glare found

Array 8 and OP 19

No glare found

Array 8 and OP 20

No glare found

Array 8 and OP 21

No glare found

Array 8 and OP 22

No glare found

Array 8 and OP 23

No glare found

Array 8 and OP 24

No glare found

Array 8 and OP 25

No glare found

Array 8 and OP 26

No glare found

Array 8 and OP 27

No glare found

Array 8 and OP 28

No glare found

Array 8 and OP 29

No glare found

Array 8 and OP 30

No glare found

Array 8 and OP 31

No glare found

Array 8 and OP 32

No glare found

Array 8 and OP 33

No glare found

Array 8 and OP 34

No glare found

Array 8 and OP 35

No glare found

Array 8 and OP 36

No glare found

Array 8 and OP 37

No glare found

Array 8 and OP 38

No glare found

Array 8 and OP 39

No glare found

Array 8 and OP 40

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 40	0	0.0	0	0.0

Array 9 and OP 1

No glare found

Array 9 and OP 2

No glare found

Array 9 and OP 3

No glare found

Array 9 and OP 4

No glare found

Array 9 and OP 5

No glare found

Array 9 and OP 6

No glare found

Array 9 and OP 7

No glare found

Array 9 and OP 8

No glare found

Array 9 and OP 9

No glare found

Array 9 and OP 10

No glare found

Array 9 and OP 11

No glare found

Array 9 and OP 12

No glare found

Array 9 and OP 13

No glare found

Array 9 and OP 14

No glare found

Array 9 and OP 15

No glare found

Array 9 and OP 16

No glare found

Array 9 and OP 17

No glare found

Array 9 and OP 18

No glare found

Array 9 and OP 19

No glare found

Array 9 and OP 20

No glare found

Array 9 and OP 21

No glare found

Array 9 and OP 22

No glare found

Array 9 and OP 23

No glare found

Array 9 and OP 24

No glare found

Array 9 and OP 25

No glare found

Array 9 and OP 26

No glare found

Array 9 and OP 27

No glare found

Array 9 and OP 28

No glare found

Array 9 and OP 29

No glare found

Array 9 and OP 30

No glare found

Array 9 and OP 31

No glare found

Array 9 and OP 32

No glare found

Array 9 and OP 33

No glare found

Array 9 and OP 34

No glare found

Array 9 and OP 35

No glare found

Array 9 and OP 36

No glare found

Array 9 and OP 37

No glare found

Array 9 and OP 38

No glare found

Array 9 and OP 39

No glare found

Array 9 and OP 40

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - OP 41-80**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91954.16149

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 V2

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

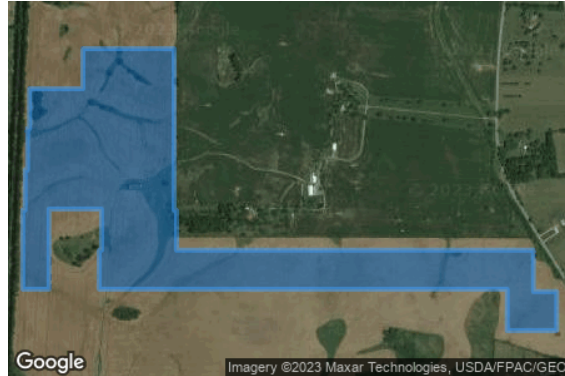
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0
OP 80	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

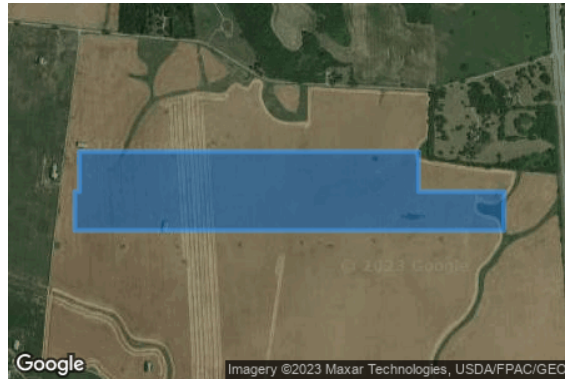
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

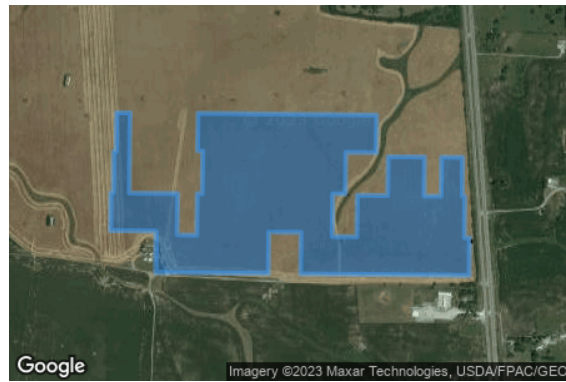
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

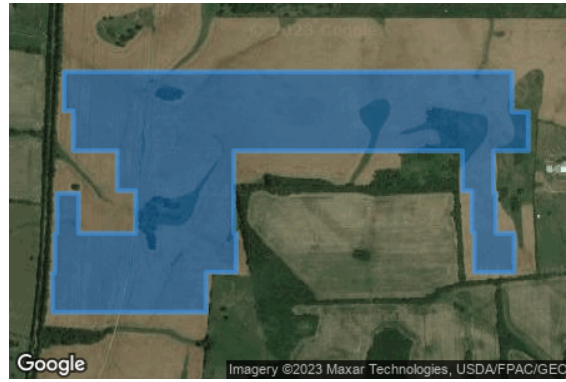
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 41	41	37.814399	-84.867404	870.72	8.00
OP 42	42	37.813347	-84.849482	882.87	8.00
OP 43	43	37.812059	-84.847987	902.90	8.00
OP 44	44	37.811239	-84.849176	877.73	8.00
OP 45	45	37.808806	-84.850448	891.60	8.00
OP 46	46	37.807935	-84.847067	918.85	8.00
OP 47	47	37.807155	-84.848746	905.84	8.00
OP 48	48	37.805375	-84.848531	905.76	8.00
OP 49	49	37.805557	-84.846482	896.94	8.00
OP 50	50	37.803665	-84.848539	916.55	8.00
OP 51	51	37.802546	-84.848496	907.05	8.00
OP 52	52	37.801088	-84.849172	905.78	8.00
OP 53	53	37.800843	-84.850427	911.35	8.00
OP 54	54	37.800903	-84.852315	872.45	8.00
OP 55	55	37.800047	-84.853152	866.35	8.00
OP 56	56	37.800275	-84.854472	853.17	8.00
OP 57	57	37.800199	-84.855770	845.85	8.00
OP 58	58	37.799597	-84.856618	843.53	8.00
OP 59	59	37.798707	-84.857283	851.02	8.00
OP 60	60	37.797834	-84.858452	847.54	8.00
OP 61	61	37.797037	-84.859386	842.45	8.00
OP 62	62	37.796237	-84.860888	832.66	8.00
OP 63	63	37.795465	-84.862562	831.55	8.00
OP 64	64	37.795720	-84.864075	834.51	8.00
OP 65	65	37.794923	-84.865212	864.92	8.00
OP 66	66	37.793829	-84.865341	870.60	8.00
OP 67	67	37.794261	-84.863571	863.24	8.00
OP 68	68	37.790263	-84.868348	859.32	8.00
OP 69	69	37.791462	-84.871181	838.62	8.00
OP 70	70	37.794295	-84.875742	837.59	8.00
OP 71	71	37.797254	-84.877445	847.11	8.00
OP 72	72	37.799123	-84.878985	844.27	8.00
OP 73	73	37.800416	-84.880910	835.15	8.00
OP 74	74	37.805146	-84.878370	817.60	8.00
OP 75	75	37.802893	-84.884782	832.94	8.00
OP 76	76	37.823500	-84.875822	842.98	8.00
OP 77	77	37.825327	-84.871955	863.20	8.00
OP 78	78	37.824816	-84.878520	830.41	8.00
OP 79	79	37.829945	-84.878548	824.78	8.00
OP 80	80	37.837812	-84.873037	841.82	8.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0
OP 80	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0
OP 80	0	0.0	0	0.0

Array 1 and OP 41

No glare found

Array 1 and OP 42

No glare found

Array 1 and OP 43

No glare found

Array 1 and OP 44

No glare found

Array 1 and OP 45

No glare found

Array 1 and OP 46

No glare found

Array 1 and OP 47

No glare found

Array 1 and OP 48

No glare found

Array 1 and OP 49

No glare found

Array 1 and OP 50

No glare found

Array 1 and OP 51

No glare found

Array 1 and OP 52

No glare found

Array 1 and OP 53

No glare found

Array 1 and OP 54

No glare found

Array 1 and OP 55

No glare found

Array 1 and OP 56

No glare found

Array 1 and OP 57

No glare found

Array 1 and OP 58

No glare found

Array 1 and OP 59

No glare found

Array 1 and OP 60

No glare found

Array 1 and OP 61

No glare found

Array 1 and OP 62

No glare found

Array 1 and OP 63

No glare found

Array 1 and OP 64

No glare found

Array 1 and OP 65

No glare found

Array 1 and OP 66

No glare found

Array 1 and OP 67

No glare found

Array 1 and OP 68

No glare found

Array 1 and OP 69

No glare found

Array 1 and OP 70

No glare found

Array 1 and OP 71

No glare found

Array 1 and OP 72

No glare found

Array 1 and OP 73

No glare found

Array 1 and OP 74

No glare found

Array 1 and OP 75

No glare found

Array 1 and OP 76

No glare found

Array 1 and OP 77

No glare found

Array 1 and OP 78

No glare found

Array 1 and OP 79

No glare found

Array 1 and OP 80

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 10 and OP 41

No glare found

Array 10 and OP 42

No glare found

Array 10 and OP 43

No glare found

Array 10 and OP 44

No glare found

Array 10 and OP 45

No glare found

Array 10 and OP 46

No glare found

Array 10 and OP 47

No glare found

Array 10 and OP 48

No glare found

Array 10 and OP 49

No glare found

Array 10 and OP 50

No glare found

Array 10 and OP 51

No glare found

Array 10 and OP 52

No glare found

Array 10 and OP 53

No glare found

Array 10 and OP 54

No glare found

Array 10 and OP 55

No glare found

Array 10 and OP 56

No glare found

Array 10 and OP 57

No glare found

Array 10 and OP 58

No glare found

Array 10 and OP 59

No glare found

Array 10 and OP 60

No glare found

Array 10 and OP 61

No glare found

Array 10 and OP 62

No glare found

Array 10 and OP 63

No glare found

Array 10 and OP 64

No glare found

Array 10 and OP 65

No glare found

Array 10 and OP 66

No glare found

Array 10 and OP 67

No glare found

Array 10 and OP 68

No glare found

Array 10 and OP 69

No glare found

Array 10 and OP 70

No glare found

Array 10 and OP 71

No glare found

Array 10 and OP 72

No glare found

Array 10 and OP 73

No glare found

Array 10 and OP 74

No glare found

Array 10 and OP 75

No glare found

Array 10 and OP 76

No glare found

Array 10 and OP 77

No glare found

Array 10 and OP 78

No glare found

Array 10 and OP 79

No glare found

Array 10 and OP 80

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 11 and OP 41

No glare found

Array 11 and OP 42

No glare found

Array 11 and OP 43

No glare found

Array 11 and OP 44

No glare found

Array 11 and OP 45

No glare found

Array 11 and OP 46

No glare found

Array 11 and OP 47

No glare found

Array 11 and OP 48

No glare found

Array 11 and OP 49

No glare found

Array 11 and OP 50

No glare found

Array 11 and OP 51

No glare found

Array 11 and OP 52

No glare found

Array 11 and OP 53

No glare found

Array 11 and OP 54

No glare found

Array 11 and OP 55

No glare found

Array 11 and OP 56

No glare found

Array 11 and OP 57

No glare found

Array 11 and OP 58

No glare found

Array 11 and OP 59

No glare found

Array 11 and OP 60

No glare found

Array 11 and OP 61

No glare found

Array 11 and OP 62

No glare found

Array 11 and OP 63

No glare found

Array 11 and OP 64

No glare found

Array 11 and OP 65

No glare found

Array 11 and OP 66

No glare found

Array 11 and OP 67

No glare found

Array 11 and OP 68

No glare found

Array 11 and OP 69

No glare found

Array 11 and OP 70

No glare found

Array 11 and OP 71

No glare found

Array 11 and OP 72

No glare found

Array 11 and OP 73

No glare found

Array 11 and OP 74

No glare found

Array 11 and OP 75

No glare found

Array 11 and OP 76

No glare found

Array 11 and OP 77

No glare found

Array 11 and OP 78

No glare found

Array 11 and OP 79

No glare found

Array 11 and OP 80

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 12 and OP 41

No glare found

Array 12 and OP 42

No glare found

Array 12 and OP 43

No glare found

Array 12 and OP 44

No glare found

Array 12 and OP 45

No glare found

Array 12 and OP 46

No glare found

Array 12 and OP 47

No glare found

Array 12 and OP 48

No glare found

Array 12 and OP 49

No glare found

Array 12 and OP 50

No glare found

Array 12 and OP 51

No glare found

Array 12 and OP 52

No glare found

Array 12 and OP 53

No glare found

Array 12 and OP 54

No glare found

Array 12 and OP 55

No glare found

Array 12 and OP 56

No glare found

Array 12 and OP 57

No glare found

Array 12 and OP 58

No glare found

Array 12 and OP 59

No glare found

Array 12 and OP 60

No glare found

Array 12 and OP 61

No glare found

Array 12 and OP 62

No glare found

Array 12 and OP 63

No glare found

Array 12 and OP 64

No glare found

Array 12 and OP 65

No glare found

Array 12 and OP 66

No glare found

Array 12 and OP 67

No glare found

Array 12 and OP 68

No glare found

Array 12 and OP 69

No glare found

Array 12 and OP 70

No glare found

Array 12 and OP 71

No glare found

Array 12 and OP 72

No glare found

Array 12 and OP 73

No glare found

Array 12 and OP 74

No glare found

Array 12 and OP 75

No glare found

Array 12 and OP 76

No glare found

Array 12 and OP 77

No glare found

Array 12 and OP 78

No glare found

Array 12 and OP 79

No glare found

Array 12 and OP 80

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 13 and OP 41

No glare found

Array 13 and OP 42

No glare found

Array 13 and OP 43

No glare found

Array 13 and OP 44

No glare found

Array 13 and OP 45

No glare found

Array 13 and OP 46

No glare found

Array 13 and OP 47

No glare found

Array 13 and OP 48

No glare found

Array 13 and OP 49

No glare found

Array 13 and OP 50

No glare found

Array 13 and OP 51

No glare found

Array 13 and OP 52

No glare found

Array 13 and OP 53

No glare found

Array 13 and OP 54

No glare found

Array 13 and OP 55

No glare found

Array 13 and OP 56

No glare found

Array 13 and OP 57

No glare found

Array 13 and OP 58

No glare found

Array 13 and OP 59

No glare found

Array 13 and OP 60

No glare found

Array 13 and OP 61

No glare found

Array 13 and OP 62

No glare found

Array 13 and OP 63

No glare found

Array 13 and OP 64

No glare found

Array 13 and OP 65

No glare found

Array 13 and OP 66

No glare found

Array 13 and OP 67

No glare found

Array 13 and OP 68

No glare found

Array 13 and OP 69

No glare found

Array 13 and OP 70

No glare found

Array 13 and OP 71

No glare found

Array 13 and OP 72

No glare found

Array 13 and OP 73

No glare found

Array 13 and OP 74

No glare found

Array 13 and OP 75

No glare found

Array 13 and OP 76

No glare found

Array 13 and OP 77

No glare found

Array 13 and OP 78

No glare found

Array 13 and OP 79

No glare found

Array 13 and OP 80

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 14 and OP 41

No glare found

Array 14 and OP 42

No glare found

Array 14 and OP 43

No glare found

Array 14 and OP 44

No glare found

Array 14 and OP 45

No glare found

Array 14 and OP 46

No glare found

Array 14 and OP 47

No glare found

Array 14 and OP 48

No glare found

Array 14 and OP 49

No glare found

Array 14 and OP 50

No glare found

Array 14 and OP 51

No glare found

Array 14 and OP 52

No glare found

Array 14 and OP 53

No glare found

Array 14 and OP 54

No glare found

Array 14 and OP 55

No glare found

Array 14 and OP 56

No glare found

Array 14 and OP 57

No glare found

Array 14 and OP 58

No glare found

Array 14 and OP 59

No glare found

Array 14 and OP 60

No glare found

Array 14 and OP 61

No glare found

Array 14 and OP 62

No glare found

Array 14 and OP 63

No glare found

Array 14 and OP 64

No glare found

Array 14 and OP 65

No glare found

Array 14 and OP 66

No glare found

Array 14 and OP 67

No glare found

Array 14 and OP 68

No glare found

Array 14 and OP 69

No glare found

Array 14 and OP 70

No glare found

Array 14 and OP 71

No glare found

Array 14 and OP 72

No glare found

Array 14 and OP 73

No glare found

Array 14 and OP 74

No glare found

Array 14 and OP 75

No glare found

Array 14 and OP 76

No glare found

Array 14 and OP 77

No glare found

Array 14 and OP 78

No glare found

Array 14 and OP 79

No glare found

Array 14 and OP 80

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 15 and OP 41

No glare found

Array 15 and OP 42

No glare found

Array 15 and OP 43

No glare found

Array 15 and OP 44

No glare found

Array 15 and OP 45

No glare found

Array 15 and OP 46

No glare found

Array 15 and OP 47

No glare found

Array 15 and OP 48

No glare found

Array 15 and OP 49

No glare found

Array 15 and OP 50

No glare found

Array 15 and OP 51

No glare found

Array 15 and OP 52

No glare found

Array 15 and OP 53

No glare found

Array 15 and OP 54

No glare found

Array 15 and OP 55

No glare found

Array 15 and OP 56

No glare found

Array 15 and OP 57

No glare found

Array 15 and OP 58

No glare found

Array 15 and OP 59

No glare found

Array 15 and OP 60

No glare found

Array 15 and OP 61

No glare found

Array 15 and OP 62

No glare found

Array 15 and OP 63

No glare found

Array 15 and OP 64

No glare found

Array 15 and OP 65

No glare found

Array 15 and OP 66

No glare found

Array 15 and OP 67

No glare found

Array 15 and OP 68

No glare found

Array 15 and OP 69

No glare found

Array 15 and OP 70

No glare found

Array 15 and OP 71

No glare found

Array 15 and OP 72

No glare found

Array 15 and OP 73

No glare found

Array 15 and OP 74

No glare found

Array 15 and OP 75

No glare found

Array 15 and OP 76

No glare found

Array 15 and OP 77

No glare found

Array 15 and OP 78

No glare found

Array 15 and OP 79

No glare found

Array 15 and OP 80

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 16 and OP 41

No glare found

Array 16 and OP 42

No glare found

Array 16 and OP 43

No glare found

Array 16 and OP 44

No glare found

Array 16 and OP 45

No glare found

Array 16 and OP 46

No glare found

Array 16 and OP 47

No glare found

Array 16 and OP 48

No glare found

Array 16 and OP 49

No glare found

Array 16 and OP 50

No glare found

Array 16 and OP 51

No glare found

Array 16 and OP 52

No glare found

Array 16 and OP 53

No glare found

Array 16 and OP 54

No glare found

Array 16 and OP 55

No glare found

Array 16 and OP 56

No glare found

Array 16 and OP 57

No glare found

Array 16 and OP 58

No glare found

Array 16 and OP 59

No glare found

Array 16 and OP 60

No glare found

Array 16 and OP 61

No glare found

Array 16 and OP 62

No glare found

Array 16 and OP 63

No glare found

Array 16 and OP 64

No glare found

Array 16 and OP 65

No glare found

Array 16 and OP 66

No glare found

Array 16 and OP 67

No glare found

Array 16 and OP 68

No glare found

Array 16 and OP 69

No glare found

Array 16 and OP 70

No glare found

Array 16 and OP 71

No glare found

Array 16 and OP 72

No glare found

Array 16 and OP 73

No glare found

Array 16 and OP 74

No glare found

Array 16 and OP 75

No glare found

Array 16 and OP 76

No glare found

Array 16 and OP 77

No glare found

Array 16 and OP 78

No glare found

Array 16 and OP 79

No glare found

Array 16 and OP 80

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 2 and OP 41

No glare found

Array 2 and OP 42

No glare found

Array 2 and OP 43

No glare found

Array 2 and OP 44

No glare found

Array 2 and OP 45

No glare found

Array 2 and OP 46

No glare found

Array 2 and OP 47

No glare found

Array 2 and OP 48

No glare found

Array 2 and OP 49

No glare found

Array 2 and OP 50

No glare found

Array 2 and OP 51

No glare found

Array 2 and OP 52

No glare found

Array 2 and OP 53

No glare found

Array 2 and OP 54

No glare found

Array 2 and OP 55

No glare found

Array 2 and OP 56

No glare found

Array 2 and OP 57

No glare found

Array 2 and OP 58

No glare found

Array 2 and OP 59

No glare found

Array 2 and OP 60

No glare found

Array 2 and OP 61

No glare found

Array 2 and OP 62

No glare found

Array 2 and OP 63

No glare found

Array 2 and OP 64

No glare found

Array 2 and OP 65

No glare found

Array 2 and OP 66

No glare found

Array 2 and OP 67

No glare found

Array 2 and OP 68

No glare found

Array 2 and OP 69

No glare found

Array 2 and OP 70

No glare found

Array 2 and OP 71

No glare found

Array 2 and OP 72

No glare found

Array 2 and OP 73

No glare found

Array 2 and OP 74

No glare found

Array 2 and OP 75

No glare found

Array 2 and OP 76

No glare found

Array 2 and OP 77

No glare found

Array 2 and OP 78

No glare found

Array 2 and OP 79

No glare found

Array 2 and OP 80

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 3 and OP 41

No glare found

Array 3 and OP 42

No glare found

Array 3 and OP 43

No glare found

Array 3 and OP 44

No glare found

Array 3 and OP 45

No glare found

Array 3 and OP 46

No glare found

Array 3 and OP 47

No glare found

Array 3 and OP 48

No glare found

Array 3 and OP 49

No glare found

Array 3 and OP 50

No glare found

Array 3 and OP 51

No glare found

Array 3 and OP 52

No glare found

Array 3 and OP 53

No glare found

Array 3 and OP 54

No glare found

Array 3 and OP 55

No glare found

Array 3 and OP 56

No glare found

Array 3 and OP 57

No glare found

Array 3 and OP 58

No glare found

Array 3 and OP 59

No glare found

Array 3 and OP 60

No glare found

Array 3 and OP 61

No glare found

Array 3 and OP 62

No glare found

Array 3 and OP 63

No glare found

Array 3 and OP 64

No glare found

Array 3 and OP 65

No glare found

Array 3 and OP 66

No glare found

Array 3 and OP 67

No glare found

Array 3 and OP 68

No glare found

Array 3 and OP 69

No glare found

Array 3 and OP 70

No glare found

Array 3 and OP 71

No glare found

Array 3 and OP 72

No glare found

Array 3 and OP 73

No glare found

Array 3 and OP 74

No glare found

Array 3 and OP 75

No glare found

Array 3 and OP 76

No glare found

Array 3 and OP 77

No glare found

Array 3 and OP 78

No glare found

Array 3 and OP 79

No glare found

Array 3 and OP 80

No glare found

PV: Array 4 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 4 and OP 41

No glare found

Array 4 and OP 42

No glare found

Array 4 and OP 43

No glare found

Array 4 and OP 44

No glare found

Array 4 and OP 45

No glare found

Array 4 and OP 46

No glare found

Array 4 and OP 47

No glare found

Array 4 and OP 48

No glare found

Array 4 and OP 49

No glare found

Array 4 and OP 50

No glare found

Array 4 and OP 51

No glare found

Array 4 and OP 52

No glare found

Array 4 and OP 53

No glare found

Array 4 and OP 54

No glare found

Array 4 and OP 55

No glare found

Array 4 and OP 56

No glare found

Array 4 and OP 57

No glare found

Array 4 and OP 58

No glare found

Array 4 and OP 59

No glare found

Array 4 and OP 60

No glare found

Array 4 and OP 61

No glare found

Array 4 and OP 62

No glare found

Array 4 and OP 63

No glare found

Array 4 and OP 64

No glare found

Array 4 and OP 65

No glare found

Array 4 and OP 66

No glare found

Array 4 and OP 67

No glare found

Array 4 and OP 68

No glare found

Array 4 and OP 69

No glare found

Array 4 and OP 70

No glare found

Array 4 and OP 71

No glare found

Array 4 and OP 72

No glare found

Array 4 and OP 73

No glare found

Array 4 and OP 74

No glare found

Array 4 and OP 75

No glare found

Array 4 and OP 76

No glare found

Array 4 and OP 77

No glare found

Array 4 and OP 78

No glare found

Array 4 and OP 79

No glare found

Array 4 and OP 80

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 5 and OP 41

No glare found

Array 5 and OP 42

No glare found

Array 5 and OP 43

No glare found

Array 5 and OP 44

No glare found

Array 5 and OP 45

No glare found

Array 5 and OP 46

No glare found

Array 5 and OP 47

No glare found

Array 5 and OP 48

No glare found

Array 5 and OP 49

No glare found

Array 5 and OP 50

No glare found

Array 5 and OP 51

No glare found

Array 5 and OP 52

No glare found

Array 5 and OP 53

No glare found

Array 5 and OP 54

No glare found

Array 5 and OP 55

No glare found

Array 5 and OP 56

No glare found

Array 5 and OP 57

No glare found

Array 5 and OP 58

No glare found

Array 5 and OP 59

No glare found

Array 5 and OP 60

No glare found

Array 5 and OP 61

No glare found

Array 5 and OP 62

No glare found

Array 5 and OP 63

No glare found

Array 5 and OP 64

No glare found

Array 5 and OP 65

No glare found

Array 5 and OP 66

No glare found

Array 5 and OP 67

No glare found

Array 5 and OP 68

No glare found

Array 5 and OP 69

No glare found

Array 5 and OP 70

No glare found

Array 5 and OP 71

No glare found

Array 5 and OP 72

No glare found

Array 5 and OP 73

No glare found

Array 5 and OP 74

No glare found

Array 5 and OP 75

No glare found

Array 5 and OP 76

No glare found

Array 5 and OP 77

No glare found

Array 5 and OP 78

No glare found

Array 5 and OP 79

No glare found

Array 5 and OP 80

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 6 and OP 41

No glare found

Array 6 and OP 42

No glare found

Array 6 and OP 43

No glare found

Array 6 and OP 44

No glare found

Array 6 and OP 45

No glare found

Array 6 and OP 46

No glare found

Array 6 and OP 47

No glare found

Array 6 and OP 48

No glare found

Array 6 and OP 49

No glare found

Array 6 and OP 50

No glare found

Array 6 and OP 51

No glare found

Array 6 and OP 52

No glare found

Array 6 and OP 53

No glare found

Array 6 and OP 54

No glare found

Array 6 and OP 55

No glare found

Array 6 and OP 56

No glare found

Array 6 and OP 57

No glare found

Array 6 and OP 58

No glare found

Array 6 and OP 59

No glare found

Array 6 and OP 60

No glare found

Array 6 and OP 61

No glare found

Array 6 and OP 62

No glare found

Array 6 and OP 63

No glare found

Array 6 and OP 64

No glare found

Array 6 and OP 65

No glare found

Array 6 and OP 66

No glare found

Array 6 and OP 67

No glare found

Array 6 and OP 68

No glare found

Array 6 and OP 69

No glare found

Array 6 and OP 70

No glare found

Array 6 and OP 71

No glare found

Array 6 and OP 72

No glare found

Array 6 and OP 73

No glare found

Array 6 and OP 74

No glare found

Array 6 and OP 75

No glare found

Array 6 and OP 76

No glare found

Array 6 and OP 77

No glare found

Array 6 and OP 78

No glare found

Array 6 and OP 79

No glare found

Array 6 and OP 80

No glare found

PV: Array 7 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 7 and OP 41

No glare found

Array 7 and OP 42

No glare found

Array 7 and OP 43

No glare found

Array 7 and OP 44

No glare found

Array 7 and OP 45

No glare found

Array 7 and OP 46

No glare found

Array 7 and OP 47

No glare found

Array 7 and OP 48

No glare found

Array 7 and OP 49

No glare found

Array 7 and OP 50

No glare found

Array 7 and OP 51

No glare found

Array 7 and OP 52

No glare found

Array 7 and OP 53

No glare found

Array 7 and OP 54

No glare found

Array 7 and OP 55

No glare found

Array 7 and OP 56

No glare found

Array 7 and OP 57

No glare found

Array 7 and OP 58

No glare found

Array 7 and OP 59

No glare found

Array 7 and OP 60

No glare found

Array 7 and OP 61

No glare found

Array 7 and OP 62

No glare found

Array 7 and OP 63

No glare found

Array 7 and OP 64

No glare found

Array 7 and OP 65

No glare found

Array 7 and OP 66

No glare found

Array 7 and OP 67

No glare found

Array 7 and OP 68

No glare found

Array 7 and OP 69

No glare found

Array 7 and OP 70

No glare found

Array 7 and OP 71

No glare found

Array 7 and OP 72

No glare found

Array 7 and OP 73

No glare found

Array 7 and OP 74

No glare found

Array 7 and OP 75

No glare found

Array 7 and OP 76

No glare found

Array 7 and OP 77

No glare found

Array 7 and OP 78

No glare found

Array 7 and OP 79

No glare found

Array 7 and OP 80

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 8 and OP 41

No glare found

Array 8 and OP 42

No glare found

Array 8 and OP 43

No glare found

Array 8 and OP 44

No glare found

Array 8 and OP 45

No glare found

Array 8 and OP 46

No glare found

Array 8 and OP 47

No glare found

Array 8 and OP 48

No glare found

Array 8 and OP 49

No glare found

Array 8 and OP 50

No glare found

Array 8 and OP 51

No glare found

Array 8 and OP 52

No glare found

Array 8 and OP 53

No glare found

Array 8 and OP 54

No glare found

Array 8 and OP 55

No glare found

Array 8 and OP 56

No glare found

Array 8 and OP 57

No glare found

Array 8 and OP 58

No glare found

Array 8 and OP 59

No glare found

Array 8 and OP 60

No glare found

Array 8 and OP 61

No glare found

Array 8 and OP 62

No glare found

Array 8 and OP 63

No glare found

Array 8 and OP 64

No glare found

Array 8 and OP 65

No glare found

Array 8 and OP 66

No glare found

Array 8 and OP 67

No glare found

Array 8 and OP 68

No glare found

Array 8 and OP 69

No glare found

Array 8 and OP 70

No glare found

Array 8 and OP 71

No glare found

Array 8 and OP 72

No glare found

Array 8 and OP 73

No glare found

Array 8 and OP 74

No glare found

Array 8 and OP 75

No glare found

Array 8 and OP 76

No glare found

Array 8 and OP 77

No glare found

Array 8 and OP 78

No glare found

Array 8 and OP 79

No glare found

Array 8 and OP 80

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 41	0	0.0	0	0.0
OP 42	0	0.0	0	0.0
OP 43	0	0.0	0	0.0
OP 44	0	0.0	0	0.0
OP 45	0	0.0	0	0.0
OP 46	0	0.0	0	0.0
OP 47	0	0.0	0	0.0
OP 48	0	0.0	0	0.0
OP 49	0	0.0	0	0.0
OP 50	0	0.0	0	0.0
OP 51	0	0.0	0	0.0
OP 52	0	0.0	0	0.0
OP 53	0	0.0	0	0.0
OP 54	0	0.0	0	0.0
OP 55	0	0.0	0	0.0
OP 56	0	0.0	0	0.0
OP 57	0	0.0	0	0.0
OP 58	0	0.0	0	0.0
OP 59	0	0.0	0	0.0
OP 60	0	0.0	0	0.0
OP 61	0	0.0	0	0.0
OP 62	0	0.0	0	0.0
OP 63	0	0.0	0	0.0
OP 64	0	0.0	0	0.0
OP 65	0	0.0	0	0.0
OP 66	0	0.0	0	0.0
OP 67	0	0.0	0	0.0
OP 68	0	0.0	0	0.0
OP 69	0	0.0	0	0.0
OP 70	0	0.0	0	0.0
OP 71	0	0.0	0	0.0
OP 72	0	0.0	0	0.0
OP 73	0	0.0	0	0.0
OP 74	0	0.0	0	0.0
OP 75	0	0.0	0	0.0
OP 76	0	0.0	0	0.0
OP 77	0	0.0	0	0.0
OP 78	0	0.0	0	0.0
OP 79	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 80	0	0.0	0	0.0

Array 9 and OP 41

No glare found

Array 9 and OP 42

No glare found

Array 9 and OP 43

No glare found

Array 9 and OP 44

No glare found

Array 9 and OP 45

No glare found

Array 9 and OP 46

No glare found

Array 9 and OP 47

No glare found

Array 9 and OP 48

No glare found

Array 9 and OP 49

No glare found

Array 9 and OP 50

No glare found

Array 9 and OP 51

No glare found

Array 9 and OP 52

No glare found

Array 9 and OP 53

No glare found

Array 9 and OP 54

No glare found

Array 9 and OP 55

No glare found

Array 9 and OP 56

No glare found

Array 9 and OP 57

No glare found

Array 9 and OP 58

No glare found

Array 9 and OP 59

No glare found

Array 9 and OP 60

No glare found

Array 9 and OP 61

No glare found

Array 9 and OP 62

No glare found

Array 9 and OP 63

No glare found

Array 9 and OP 64

No glare found

Array 9 and OP 65

No glare found

Array 9 and OP 66

No glare found

Array 9 and OP 67

No glare found

Array 9 and OP 68

No glare found

Array 9 and OP 69

No glare found

Array 9 and OP 70

No glare found

Array 9 and OP 71

No glare found

Array 9 and OP 72

No glare found

Array 9 and OP 73

No glare found

Array 9 and OP 74

No glare found

Array 9 and OP 75

No glare found

Array 9 and OP 76

No glare found

Array 9 and OP 77

No glare found

Array 9 and OP 78

No glare found

Array 9 and OP 79

No glare found

Array 9 and OP 80

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - OP 81-120**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91955.16149

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 V2

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0
OP 120	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

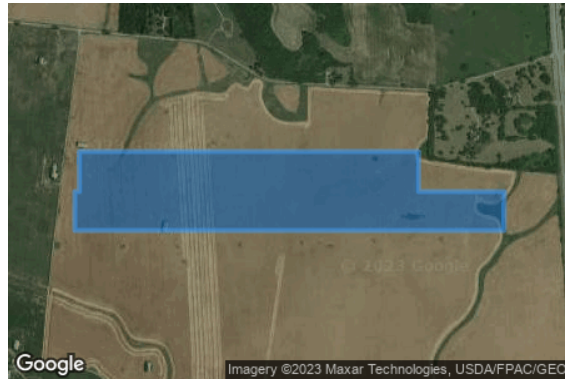
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

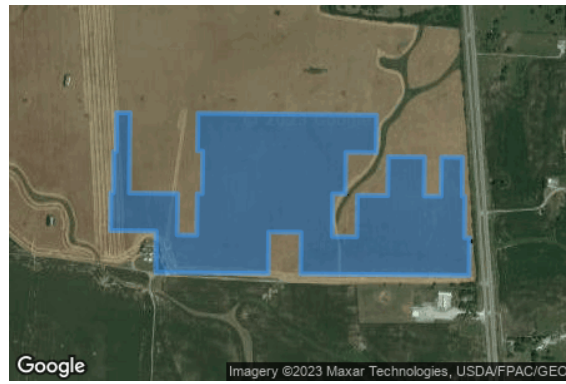
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

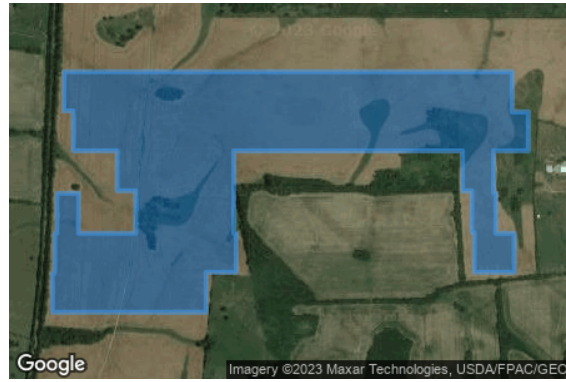
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 81	81	37.845126	-84.884046	815.61	8.00
OP 82	82	37.847186	-84.880962	808.47	8.00
OP 83	83	37.850523	-84.876477	834.11	8.00
OP 84	84	37.851707	-84.873143	837.55	8.00
OP 85	85	37.849458	-84.870705	875.19	16.00
OP 86	86	37.851127	-84.870212	825.40	16.00
OP 87	87	37.850347	-84.868570	827.86	16.00
OP 88	88	37.850330	-84.867873	813.89	16.00
OP 89	89	37.850262	-84.866135	809.88	16.00
OP 90	90	37.850178	-84.864386	819.42	16.00
OP 91	91	37.850102	-84.862648	827.01	16.00
OP 92	92	37.850000	-84.859751	830.75	16.00
OP 93	93	37.849864	-84.856790	837.35	16.00
OP 94	94	37.849974	-84.854977	848.41	16.00
OP 95	95	37.849708	-84.853105	870.14	16.00
OP 96	96	37.849771	-84.850766	877.01	16.00
OP 97	97	37.847772	-84.849993	877.67	16.00
OP 98	98	37.847314	-84.855175	853.91	16.00
OP 99	99	37.845069	-84.855529	829.61	16.00
OP 100	100	37.841795	-84.851785	843.36	16.00
OP 101	101	37.840765	-84.852085	851.35	16.00
OP 102	102	37.839481	-84.858164	877.39	16.00
OP 103	103	37.836829	-84.859065	889.62	16.00
OP 104	104	37.836456	-84.861463	870.70	16.00
OP 105	105	37.838366	-84.852163	846.47	16.00
OP 106	106	37.836235	-84.850918	849.74	16.00
OP 107	107	37.834821	-84.845606	900.30	16.00
OP 108	108	37.834703	-84.840671	918.66	16.00
OP 109	109	37.832238	-84.850238	876.16	16.00
OP 110	110	37.830378	-84.850045	889.81	16.00
OP 111	111	37.829392	-84.848608	899.82	16.00
OP 112	112	37.828664	-84.848388	896.16	16.00
OP 113	113	37.827825	-84.848468	897.81	16.00
OP 114	114	37.827075	-84.848887	903.87	16.00
OP 115	115	37.826113	-84.849257	884.99	16.00
OP 116	116	37.826100	-84.851317	875.61	16.00
OP 117	117	37.825130	-84.849327	877.36	16.00
OP 118	118	37.824443	-84.848586	881.19	16.00
OP 119	119	37.824949	-84.863618	891.57	16.00
OP 120	120	37.824465	-84.861074	899.96	16.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0
OP 120	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0
OP 120	0	0.0	0	0.0

Array 1 and OP 81

No glare found

Array 1 and OP 82

No glare found

Array 1 and OP 83

No glare found

Array 1 and OP 84

No glare found

Array 1 and OP 85

No glare found

Array 1 and OP 86

No glare found

Array 1 and OP 87

No glare found

Array 1 and OP 88

No glare found

Array 1 and OP 89

No glare found

Array 1 and OP 90

No glare found

Array 1 and OP 91

No glare found

Array 1 and OP 92

No glare found

Array 1 and OP 93

No glare found

Array 1 and OP 94

No glare found

Array 1 and OP 95

No glare found

Array 1 and OP 96

No glare found

Array 1 and OP 97

No glare found

Array 1 and OP 98

No glare found

Array 1 and OP 99

No glare found

Array 1 and OP 100

No glare found

Array 1 and OP 101

No glare found

Array 1 and OP 102

No glare found

Array 1 and OP 103

No glare found

Array 1 and OP 104

No glare found

Array 1 and OP 105

No glare found

Array 1 and OP 106

No glare found

Array 1 and OP 107

No glare found

Array 1 and OP 108

No glare found

Array 1 and OP 109

No glare found

Array 1 and OP 110

No glare found

Array 1 and OP 111

No glare found

Array 1 and OP 112

No glare found

Array 1 and OP 113

No glare found

Array 1 and OP 114

No glare found

Array 1 and OP 115

No glare found

Array 1 and OP 116

No glare found

Array 1 and OP 117

No glare found

Array 1 and OP 118

No glare found

Array 1 and OP 119

No glare found

Array 1 and OP 120

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 10 and OP 81

No glare found

Array 10 and OP 82

No glare found

Array 10 and OP 83

No glare found

Array 10 and OP 84

No glare found

Array 10 and OP 85

No glare found

Array 10 and OP 86

No glare found

Array 10 and OP 87

No glare found

Array 10 and OP 88

No glare found

Array 10 and OP 89

No glare found

Array 10 and OP 90

No glare found

Array 10 and OP 91

No glare found

Array 10 and OP 92

No glare found

Array 10 and OP 93

No glare found

Array 10 and OP 94

No glare found

Array 10 and OP 95

No glare found

Array 10 and OP 96

No glare found

Array 10 and OP 97

No glare found

Array 10 and OP 98

No glare found

Array 10 and OP 99

No glare found

Array 10 and OP 100

No glare found

Array 10 and OP 101

No glare found

Array 10 and OP 102

No glare found

Array 10 and OP 103

No glare found

Array 10 and OP 104

No glare found

Array 10 and OP 105

No glare found

Array 10 and OP 106

No glare found

Array 10 and OP 107

No glare found

Array 10 and OP 108

No glare found

Array 10 and OP 109

No glare found

Array 10 and OP 110

No glare found

Array 10 and OP 111

No glare found

Array 10 and OP 112

No glare found

Array 10 and OP 113

No glare found

Array 10 and OP 114

No glare found

Array 10 and OP 115

No glare found

Array 10 and OP 116

No glare found

Array 10 and OP 117

No glare found

Array 10 and OP 118

No glare found

Array 10 and OP 119

No glare found

Array 10 and OP 120

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 11 and OP 81

No glare found

Array 11 and OP 82

No glare found

Array 11 and OP 83

No glare found

Array 11 and OP 84

No glare found

Array 11 and OP 85

No glare found

Array 11 and OP 86

No glare found

Array 11 and OP 87

No glare found

Array 11 and OP 88

No glare found

Array 11 and OP 89

No glare found

Array 11 and OP 90

No glare found

Array 11 and OP 91

No glare found

Array 11 and OP 92

No glare found

Array 11 and OP 93

No glare found

Array 11 and OP 94

No glare found

Array 11 and OP 95

No glare found

Array 11 and OP 96

No glare found

Array 11 and OP 97

No glare found

Array 11 and OP 98

No glare found

Array 11 and OP 99

No glare found

Array 11 and OP 100

No glare found

Array 11 and OP 101

No glare found

Array 11 and OP 102

No glare found

Array 11 and OP 103

No glare found

Array 11 and OP 104

No glare found

Array 11 and OP 105

No glare found

Array 11 and OP 106

No glare found

Array 11 and OP 107

No glare found

Array 11 and OP 108

No glare found

Array 11 and OP 109

No glare found

Array 11 and OP 110

No glare found

Array 11 and OP 111

No glare found

Array 11 and OP 112

No glare found

Array 11 and OP 113

No glare found

Array 11 and OP 114

No glare found

Array 11 and OP 115

No glare found

Array 11 and OP 116

No glare found

Array 11 and OP 117

No glare found

Array 11 and OP 118

No glare found

Array 11 and OP 119

No glare found

Array 11 and OP 120

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 12 and OP 81

No glare found

Array 12 and OP 82

No glare found

Array 12 and OP 83

No glare found

Array 12 and OP 84

No glare found

Array 12 and OP 85

No glare found

Array 12 and OP 86

No glare found

Array 12 and OP 87

No glare found

Array 12 and OP 88

No glare found

Array 12 and OP 89

No glare found

Array 12 and OP 90

No glare found

Array 12 and OP 91

No glare found

Array 12 and OP 92

No glare found

Array 12 and OP 93

No glare found

Array 12 and OP 94

No glare found

Array 12 and OP 95

No glare found

Array 12 and OP 96

No glare found

Array 12 and OP 97

No glare found

Array 12 and OP 98

No glare found

Array 12 and OP 99

No glare found

Array 12 and OP 100

No glare found

Array 12 and OP 101

No glare found

Array 12 and OP 102

No glare found

Array 12 and OP 103

No glare found

Array 12 and OP 104

No glare found

Array 12 and OP 105

No glare found

Array 12 and OP 106

No glare found

Array 12 and OP 107

No glare found

Array 12 and OP 108

No glare found

Array 12 and OP 109

No glare found

Array 12 and OP 110

No glare found

Array 12 and OP 111

No glare found

Array 12 and OP 112

No glare found

Array 12 and OP 113

No glare found

Array 12 and OP 114

No glare found

Array 12 and OP 115

No glare found

Array 12 and OP 116

No glare found

Array 12 and OP 117

No glare found

Array 12 and OP 118

No glare found

Array 12 and OP 119

No glare found

Array 12 and OP 120

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 13 and OP 81

No glare found

Array 13 and OP 82

No glare found

Array 13 and OP 83

No glare found

Array 13 and OP 84

No glare found

Array 13 and OP 85

No glare found

Array 13 and OP 86

No glare found

Array 13 and OP 87

No glare found

Array 13 and OP 88

No glare found

Array 13 and OP 89

No glare found

Array 13 and OP 90

No glare found

Array 13 and OP 91

No glare found

Array 13 and OP 92

No glare found

Array 13 and OP 93

No glare found

Array 13 and OP 94

No glare found

Array 13 and OP 95

No glare found

Array 13 and OP 96

No glare found

Array 13 and OP 97

No glare found

Array 13 and OP 98

No glare found

Array 13 and OP 99

No glare found

Array 13 and OP 100

No glare found

Array 13 and OP 101

No glare found

Array 13 and OP 102

No glare found

Array 13 and OP 103

No glare found

Array 13 and OP 104

No glare found

Array 13 and OP 105

No glare found

Array 13 and OP 106

No glare found

Array 13 and OP 107

No glare found

Array 13 and OP 108

No glare found

Array 13 and OP 109

No glare found

Array 13 and OP 110

No glare found

Array 13 and OP 111

No glare found

Array 13 and OP 112

No glare found

Array 13 and OP 113

No glare found

Array 13 and OP 114

No glare found

Array 13 and OP 115

No glare found

Array 13 and OP 116

No glare found

Array 13 and OP 117

No glare found

Array 13 and OP 118

No glare found

Array 13 and OP 119

No glare found

Array 13 and OP 120

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 14 and OP 81

No glare found

Array 14 and OP 82

No glare found

Array 14 and OP 83

No glare found

Array 14 and OP 84

No glare found

Array 14 and OP 85

No glare found

Array 14 and OP 86

No glare found

Array 14 and OP 87

No glare found

Array 14 and OP 88

No glare found

Array 14 and OP 89

No glare found

Array 14 and OP 90

No glare found

Array 14 and OP 91

No glare found

Array 14 and OP 92

No glare found

Array 14 and OP 93

No glare found

Array 14 and OP 94

No glare found

Array 14 and OP 95

No glare found

Array 14 and OP 96

No glare found

Array 14 and OP 97

No glare found

Array 14 and OP 98

No glare found

Array 14 and OP 99

No glare found

Array 14 and OP 100

No glare found

Array 14 and OP 101

No glare found

Array 14 and OP 102

No glare found

Array 14 and OP 103

No glare found

Array 14 and OP 104

No glare found

Array 14 and OP 105

No glare found

Array 14 and OP 106

No glare found

Array 14 and OP 107

No glare found

Array 14 and OP 108

No glare found

Array 14 and OP 109

No glare found

Array 14 and OP 110

No glare found

Array 14 and OP 111

No glare found

Array 14 and OP 112

No glare found

Array 14 and OP 113

No glare found

Array 14 and OP 114

No glare found

Array 14 and OP 115

No glare found

Array 14 and OP 116

No glare found

Array 14 and OP 117

No glare found

Array 14 and OP 118

No glare found

Array 14 and OP 119

No glare found

Array 14 and OP 120

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 15 and OP 81

No glare found

Array 15 and OP 82

No glare found

Array 15 and OP 83

No glare found

Array 15 and OP 84

No glare found

Array 15 and OP 85

No glare found

Array 15 and OP 86

No glare found

Array 15 and OP 87

No glare found

Array 15 and OP 88

No glare found

Array 15 and OP 89

No glare found

Array 15 and OP 90

No glare found

Array 15 and OP 91

No glare found

Array 15 and OP 92

No glare found

Array 15 and OP 93

No glare found

Array 15 and OP 94

No glare found

Array 15 and OP 95

No glare found

Array 15 and OP 96

No glare found

Array 15 and OP 97

No glare found

Array 15 and OP 98

No glare found

Array 15 and OP 99

No glare found

Array 15 and OP 100

No glare found

Array 15 and OP 101

No glare found

Array 15 and OP 102

No glare found

Array 15 and OP 103

No glare found

Array 15 and OP 104

No glare found

Array 15 and OP 105

No glare found

Array 15 and OP 106

No glare found

Array 15 and OP 107

No glare found

Array 15 and OP 108

No glare found

Array 15 and OP 109

No glare found

Array 15 and OP 110

No glare found

Array 15 and OP 111

No glare found

Array 15 and OP 112

No glare found

Array 15 and OP 113

No glare found

Array 15 and OP 114

No glare found

Array 15 and OP 115

No glare found

Array 15 and OP 116

No glare found

Array 15 and OP 117

No glare found

Array 15 and OP 118

No glare found

Array 15 and OP 119

No glare found

Array 15 and OP 120

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 16 and OP 81

No glare found

Array 16 and OP 82

No glare found

Array 16 and OP 83

No glare found

Array 16 and OP 84

No glare found

Array 16 and OP 85

No glare found

Array 16 and OP 86

No glare found

Array 16 and OP 87

No glare found

Array 16 and OP 88

No glare found

Array 16 and OP 89

No glare found

Array 16 and OP 90

No glare found

Array 16 and OP 91

No glare found

Array 16 and OP 92

No glare found

Array 16 and OP 93

No glare found

Array 16 and OP 94

No glare found

Array 16 and OP 95

No glare found

Array 16 and OP 96

No glare found

Array 16 and OP 97

No glare found

Array 16 and OP 98

No glare found

Array 16 and OP 99

No glare found

Array 16 and OP 100

No glare found

Array 16 and OP 101

No glare found

Array 16 and OP 102

No glare found

Array 16 and OP 103

No glare found

Array 16 and OP 104

No glare found

Array 16 and OP 105

No glare found

Array 16 and OP 106

No glare found

Array 16 and OP 107

No glare found

Array 16 and OP 108

No glare found

Array 16 and OP 109

No glare found

Array 16 and OP 110

No glare found

Array 16 and OP 111

No glare found

Array 16 and OP 112

No glare found

Array 16 and OP 113

No glare found

Array 16 and OP 114

No glare found

Array 16 and OP 115

No glare found

Array 16 and OP 116

No glare found

Array 16 and OP 117

No glare found

Array 16 and OP 118

No glare found

Array 16 and OP 119

No glare found

Array 16 and OP 120

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 2 and OP 81

No glare found

Array 2 and OP 82

No glare found

Array 2 and OP 83

No glare found

Array 2 and OP 84

No glare found

Array 2 and OP 85

No glare found

Array 2 and OP 86

No glare found

Array 2 and OP 87

No glare found

Array 2 and OP 88

No glare found

Array 2 and OP 89

No glare found

Array 2 and OP 90

No glare found

Array 2 and OP 91

No glare found

Array 2 and OP 92

No glare found

Array 2 and OP 93

No glare found

Array 2 and OP 94

No glare found

Array 2 and OP 95

No glare found

Array 2 and OP 96

No glare found

Array 2 and OP 97

No glare found

Array 2 and OP 98

No glare found

Array 2 and OP 99

No glare found

Array 2 and OP 100

No glare found

Array 2 and OP 101

No glare found

Array 2 and OP 102

No glare found

Array 2 and OP 103

No glare found

Array 2 and OP 104

No glare found

Array 2 and OP 105

No glare found

Array 2 and OP 106

No glare found

Array 2 and OP 107

No glare found

Array 2 and OP 108

No glare found

Array 2 and OP 109

No glare found

Array 2 and OP 110

No glare found

Array 2 and OP 111

No glare found

Array 2 and OP 112

No glare found

Array 2 and OP 113

No glare found

Array 2 and OP 114

No glare found

Array 2 and OP 115

No glare found

Array 2 and OP 116

No glare found

Array 2 and OP 117

No glare found

Array 2 and OP 118

No glare found

Array 2 and OP 119

No glare found

Array 2 and OP 120

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 3 and OP 81

No glare found

Array 3 and OP 82

No glare found

Array 3 and OP 83

No glare found

Array 3 and OP 84

No glare found

Array 3 and OP 85

No glare found

Array 3 and OP 86

No glare found

Array 3 and OP 87

No glare found

Array 3 and OP 88

No glare found

Array 3 and OP 89

No glare found

Array 3 and OP 90

No glare found

Array 3 and OP 91

No glare found

Array 3 and OP 92

No glare found

Array 3 and OP 93

No glare found

Array 3 and OP 94

No glare found

Array 3 and OP 95

No glare found

Array 3 and OP 96

No glare found

Array 3 and OP 97

No glare found

Array 3 and OP 98

No glare found

Array 3 and OP 99

No glare found

Array 3 and OP 100

No glare found

Array 3 and OP 101

No glare found

Array 3 and OP 102

No glare found

Array 3 and OP 103

No glare found

Array 3 and OP 104

No glare found

Array 3 and OP 105

No glare found

Array 3 and OP 106

No glare found

Array 3 and OP 107

No glare found

Array 3 and OP 108

No glare found

Array 3 and OP 109

No glare found

Array 3 and OP 110

No glare found

Array 3 and OP 111

No glare found

Array 3 and OP 112

No glare found

Array 3 and OP 113

No glare found

Array 3 and OP 114

No glare found

Array 3 and OP 115

No glare found

Array 3 and OP 116

No glare found

Array 3 and OP 117

No glare found

Array 3 and OP 118

No glare found

Array 3 and OP 119

No glare found

Array 3 and OP 120

No glare found

PV: Array 4 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 4 and OP 81

No glare found

Array 4 and OP 82

No glare found

Array 4 and OP 83

No glare found

Array 4 and OP 84

No glare found

Array 4 and OP 85

No glare found

Array 4 and OP 86

No glare found

Array 4 and OP 87

No glare found

Array 4 and OP 88

No glare found

Array 4 and OP 89

No glare found

Array 4 and OP 90

No glare found

Array 4 and OP 91

No glare found

Array 4 and OP 92

No glare found

Array 4 and OP 93

No glare found

Array 4 and OP 94

No glare found

Array 4 and OP 95

No glare found

Array 4 and OP 96

No glare found

Array 4 and OP 97

No glare found

Array 4 and OP 98

No glare found

Array 4 and OP 99

No glare found

Array 4 and OP 100

No glare found

Array 4 and OP 101

No glare found

Array 4 and OP 102

No glare found

Array 4 and OP 103

No glare found

Array 4 and OP 104

No glare found

Array 4 and OP 105

No glare found

Array 4 and OP 106

No glare found

Array 4 and OP 107

No glare found

Array 4 and OP 108

No glare found

Array 4 and OP 109

No glare found

Array 4 and OP 110

No glare found

Array 4 and OP 111

No glare found

Array 4 and OP 112

No glare found

Array 4 and OP 113

No glare found

Array 4 and OP 114

No glare found

Array 4 and OP 115

No glare found

Array 4 and OP 116

No glare found

Array 4 and OP 117

No glare found

Array 4 and OP 118

No glare found

Array 4 and OP 119

No glare found

Array 4 and OP 120

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 5 and OP 81

No glare found

Array 5 and OP 82

No glare found

Array 5 and OP 83

No glare found

Array 5 and OP 84

No glare found

Array 5 and OP 85

No glare found

Array 5 and OP 86

No glare found

Array 5 and OP 87

No glare found

Array 5 and OP 88

No glare found

Array 5 and OP 89

No glare found

Array 5 and OP 90

No glare found

Array 5 and OP 91

No glare found

Array 5 and OP 92

No glare found

Array 5 and OP 93

No glare found

Array 5 and OP 94

No glare found

Array 5 and OP 95

No glare found

Array 5 and OP 96

No glare found

Array 5 and OP 97

No glare found

Array 5 and OP 98

No glare found

Array 5 and OP 99

No glare found

Array 5 and OP 100

No glare found

Array 5 and OP 101

No glare found

Array 5 and OP 102

No glare found

Array 5 and OP 103

No glare found

Array 5 and OP 104

No glare found

Array 5 and OP 105

No glare found

Array 5 and OP 106

No glare found

Array 5 and OP 107

No glare found

Array 5 and OP 108

No glare found

Array 5 and OP 109

No glare found

Array 5 and OP 110

No glare found

Array 5 and OP 111

No glare found

Array 5 and OP 112

No glare found

Array 5 and OP 113

No glare found

Array 5 and OP 114

No glare found

Array 5 and OP 115

No glare found

Array 5 and OP 116

No glare found

Array 5 and OP 117

No glare found

Array 5 and OP 118

No glare found

Array 5 and OP 119

No glare found

Array 5 and OP 120

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 6 and OP 81

No glare found

Array 6 and OP 82

No glare found

Array 6 and OP 83

No glare found

Array 6 and OP 84

No glare found

Array 6 and OP 85

No glare found

Array 6 and OP 86

No glare found

Array 6 and OP 87

No glare found

Array 6 and OP 88

No glare found

Array 6 and OP 89

No glare found

Array 6 and OP 90

No glare found

Array 6 and OP 91

No glare found

Array 6 and OP 92

No glare found

Array 6 and OP 93

No glare found

Array 6 and OP 94

No glare found

Array 6 and OP 95

No glare found

Array 6 and OP 96

No glare found

Array 6 and OP 97

No glare found

Array 6 and OP 98

No glare found

Array 6 and OP 99

No glare found

Array 6 and OP 100

No glare found

Array 6 and OP 101

No glare found

Array 6 and OP 102

No glare found

Array 6 and OP 103

No glare found

Array 6 and OP 104

No glare found

Array 6 and OP 105

No glare found

Array 6 and OP 106

No glare found

Array 6 and OP 107

No glare found

Array 6 and OP 108

No glare found

Array 6 and OP 109

No glare found

Array 6 and OP 110

No glare found

Array 6 and OP 111

No glare found

Array 6 and OP 112

No glare found

Array 6 and OP 113

No glare found

Array 6 and OP 114

No glare found

Array 6 and OP 115

No glare found

Array 6 and OP 116

No glare found

Array 6 and OP 117

No glare found

Array 6 and OP 118

No glare found

Array 6 and OP 119

No glare found

Array 6 and OP 120

No glare found

PV: Array 7 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 7 and OP 81

No glare found

Array 7 and OP 82

No glare found

Array 7 and OP 83

No glare found

Array 7 and OP 84

No glare found

Array 7 and OP 85

No glare found

Array 7 and OP 86

No glare found

Array 7 and OP 87

No glare found

Array 7 and OP 88

No glare found

Array 7 and OP 89

No glare found

Array 7 and OP 90

No glare found

Array 7 and OP 91

No glare found

Array 7 and OP 92

No glare found

Array 7 and OP 93

No glare found

Array 7 and OP 94

No glare found

Array 7 and OP 95

No glare found

Array 7 and OP 96

No glare found

Array 7 and OP 97

No glare found

Array 7 and OP 98

No glare found

Array 7 and OP 99

No glare found

Array 7 and OP 100

No glare found

Array 7 and OP 101

No glare found

Array 7 and OP 102

No glare found

Array 7 and OP 103

No glare found

Array 7 and OP 104

No glare found

Array 7 and OP 105

No glare found

Array 7 and OP 106

No glare found

Array 7 and OP 107

No glare found

Array 7 and OP 108

No glare found

Array 7 and OP 109

No glare found

Array 7 and OP 110

No glare found

Array 7 and OP 111

No glare found

Array 7 and OP 112

No glare found

Array 7 and OP 113

No glare found

Array 7 and OP 114

No glare found

Array 7 and OP 115

No glare found

Array 7 and OP 116

No glare found

Array 7 and OP 117

No glare found

Array 7 and OP 118

No glare found

Array 7 and OP 119

No glare found

Array 7 and OP 120

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 8 and OP 81

No glare found

Array 8 and OP 82

No glare found

Array 8 and OP 83

No glare found

Array 8 and OP 84

No glare found

Array 8 and OP 85

No glare found

Array 8 and OP 86

No glare found

Array 8 and OP 87

No glare found

Array 8 and OP 88

No glare found

Array 8 and OP 89

No glare found

Array 8 and OP 90

No glare found

Array 8 and OP 91

No glare found

Array 8 and OP 92

No glare found

Array 8 and OP 93

No glare found

Array 8 and OP 94

No glare found

Array 8 and OP 95

No glare found

Array 8 and OP 96

No glare found

Array 8 and OP 97

No glare found

Array 8 and OP 98

No glare found

Array 8 and OP 99

No glare found

Array 8 and OP 100

No glare found

Array 8 and OP 101

No glare found

Array 8 and OP 102

No glare found

Array 8 and OP 103

No glare found

Array 8 and OP 104

No glare found

Array 8 and OP 105

No glare found

Array 8 and OP 106

No glare found

Array 8 and OP 107

No glare found

Array 8 and OP 108

No glare found

Array 8 and OP 109

No glare found

Array 8 and OP 110

No glare found

Array 8 and OP 111

No glare found

Array 8 and OP 112

No glare found

Array 8 and OP 113

No glare found

Array 8 and OP 114

No glare found

Array 8 and OP 115

No glare found

Array 8 and OP 116

No glare found

Array 8 and OP 117

No glare found

Array 8 and OP 118

No glare found

Array 8 and OP 119

No glare found

Array 8 and OP 120

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 81	0	0.0	0	0.0
OP 82	0	0.0	0	0.0
OP 83	0	0.0	0	0.0
OP 84	0	0.0	0	0.0
OP 85	0	0.0	0	0.0
OP 86	0	0.0	0	0.0
OP 87	0	0.0	0	0.0
OP 88	0	0.0	0	0.0
OP 89	0	0.0	0	0.0
OP 90	0	0.0	0	0.0
OP 91	0	0.0	0	0.0
OP 92	0	0.0	0	0.0
OP 93	0	0.0	0	0.0
OP 94	0	0.0	0	0.0
OP 95	0	0.0	0	0.0
OP 96	0	0.0	0	0.0
OP 97	0	0.0	0	0.0
OP 98	0	0.0	0	0.0
OP 99	0	0.0	0	0.0
OP 100	0	0.0	0	0.0
OP 101	0	0.0	0	0.0
OP 102	0	0.0	0	0.0
OP 103	0	0.0	0	0.0
OP 104	0	0.0	0	0.0
OP 105	0	0.0	0	0.0
OP 106	0	0.0	0	0.0
OP 107	0	0.0	0	0.0
OP 108	0	0.0	0	0.0
OP 109	0	0.0	0	0.0
OP 110	0	0.0	0	0.0
OP 111	0	0.0	0	0.0
OP 112	0	0.0	0	0.0
OP 113	0	0.0	0	0.0
OP 114	0	0.0	0	0.0
OP 115	0	0.0	0	0.0
OP 116	0	0.0	0	0.0
OP 117	0	0.0	0	0.0
OP 118	0	0.0	0	0.0
OP 119	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 120	0	0.0	0	0.0

Array 9 and OP 81

No glare found

Array 9 and OP 82

No glare found

Array 9 and OP 83

No glare found

Array 9 and OP 84

No glare found

Array 9 and OP 85

No glare found

Array 9 and OP 86

No glare found

Array 9 and OP 87

No glare found

Array 9 and OP 88

No glare found

Array 9 and OP 89

No glare found

Array 9 and OP 90

No glare found

Array 9 and OP 91

No glare found

Array 9 and OP 92

No glare found

Array 9 and OP 93

No glare found

Array 9 and OP 94

No glare found

Array 9 and OP 95

No glare found

Array 9 and OP 96

No glare found

Array 9 and OP 97

No glare found

Array 9 and OP 98

No glare found

Array 9 and OP 99

No glare found

Array 9 and OP 100

No glare found

Array 9 and OP 101

No glare found

Array 9 and OP 102

No glare found

Array 9 and OP 103

No glare found

Array 9 and OP 104

No glare found

Array 9 and OP 105

No glare found

Array 9 and OP 106

No glare found

Array 9 and OP 107

No glare found

Array 9 and OP 108

No glare found

Array 9 and OP 109

No glare found

Array 9 and OP 110

No glare found

Array 9 and OP 111

No glare found

Array 9 and OP 112

No glare found

Array 9 and OP 113

No glare found

Array 9 and OP 114

No glare found

Array 9 and OP 115

No glare found

Array 9 and OP 116

No glare found

Array 9 and OP 117

No glare found

Array 9 and OP 118

No glare found

Array 9 and OP 119

No glare found

Array 9 and OP 120

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - OP 121-160**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91956.16149

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 V2

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0
OP 160	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

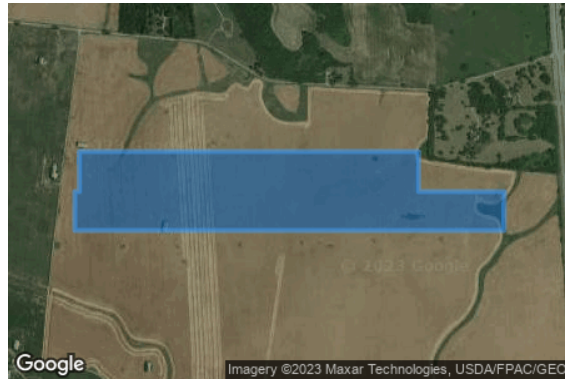
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

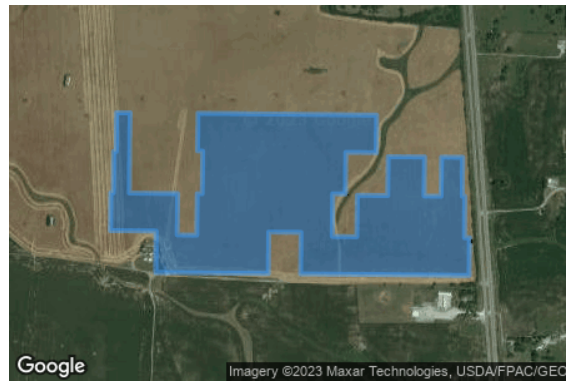
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

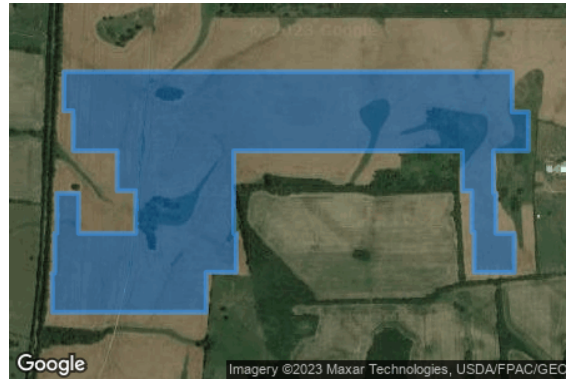
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 121	121	37.823355	-84.857244	890.32	16.00
OP 122	122	37.821647	-84.852534	892.56	16.00
OP 123	123	37.822702	-84.851209	908.06	16.00
OP 124	124	37.820474	-84.848705	915.69	16.00
OP 125	125	37.814399	-84.867404	870.72	16.00
OP 126	126	37.813347	-84.849482	882.87	16.00
OP 127	127	37.812059	-84.847987	902.90	16.00
OP 128	128	37.811239	-84.849176	877.73	16.00
OP 129	129	37.808806	-84.850448	891.60	16.00
OP 130	130	37.807935	-84.847067	918.85	16.00
OP 131	131	37.807155	-84.848746	905.84	16.00
OP 132	132	37.805375	-84.848531	905.76	16.00
OP 133	133	37.805557	-84.846482	896.94	16.00
OP 134	134	37.803665	-84.848539	916.55	16.00
OP 135	135	37.802546	-84.848496	907.05	16.00
OP 136	136	37.801088	-84.849172	905.78	16.00
OP 137	137	37.800843	-84.850427	911.35	16.00
OP 138	138	37.800903	-84.852315	872.45	16.00
OP 139	139	37.800047	-84.853152	866.35	16.00
OP 140	140	37.800275	-84.854472	853.17	16.00
OP 141	141	37.800199	-84.855770	845.85	16.00
OP 142	142	37.799597	-84.856618	843.53	16.00
OP 143	143	37.798707	-84.857283	851.02	16.00
OP 144	144	37.797834	-84.858452	847.54	16.00
OP 145	145	37.797037	-84.859386	842.45	16.00
OP 146	146	37.796237	-84.860888	832.66	16.00
OP 147	147	37.795465	-84.862562	831.55	16.00
OP 148	148	37.795720	-84.864075	834.51	16.00
OP 149	149	37.794923	-84.865212	864.92	16.00
OP 150	150	37.793829	-84.865341	870.60	16.00
OP 151	151	37.794261	-84.863571	863.24	16.00
OP 152	152	37.790263	-84.868348	859.32	16.00
OP 153	153	37.791462	-84.871181	838.62	16.00
OP 154	154	37.794295	-84.875742	837.59	16.00
OP 155	155	37.797254	-84.877445	847.11	16.00
OP 156	156	37.799123	-84.878985	844.27	16.00
OP 157	157	37.800416	-84.880910	835.15	16.00
OP 158	158	37.805146	-84.878370	817.60	16.00
OP 159	159	37.802893	-84.884782	832.94	16.00
OP 160	160	37.823500	-84.875822	842.98	16.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0
OP 160	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0
OP 160	0	0.0	0	0.0

Array 1 and OP 121

No glare found

Array 1 and OP 122

No glare found

Array 1 and OP 123

No glare found

Array 1 and OP 124

No glare found

Array 1 and OP 125

No glare found

Array 1 and OP 126

No glare found

Array 1 and OP 127

No glare found

Array 1 and OP 128

No glare found

Array 1 and OP 129

No glare found

Array 1 and OP 130

No glare found

Array 1 and OP 131

No glare found

Array 1 and OP 132

No glare found

Array 1 and OP 133

No glare found

Array 1 and OP 134

No glare found

Array 1 and OP 135

No glare found

Array 1 and OP 136

No glare found

Array 1 and OP 137

No glare found

Array 1 and OP 138

No glare found

Array 1 and OP 139

No glare found

Array 1 and OP 140

No glare found

Array 1 and OP 141

No glare found

Array 1 and OP 142

No glare found

Array 1 and OP 143

No glare found

Array 1 and OP 144

No glare found

Array 1 and OP 145

No glare found

Array 1 and OP 146

No glare found

Array 1 and OP 147

No glare found

Array 1 and OP 148

No glare found

Array 1 and OP 149

No glare found

Array 1 and OP 150

No glare found

Array 1 and OP 151

No glare found

Array 1 and OP 152

No glare found

Array 1 and OP 153

No glare found

Array 1 and OP 154

No glare found

Array 1 and OP 155

No glare found

Array 1 and OP 156

No glare found

Array 1 and OP 157

No glare found

Array 1 and OP 158

No glare found

Array 1 and OP 159

No glare found

Array 1 and OP 160

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 10 and OP 121

No glare found

Array 10 and OP 122

No glare found

Array 10 and OP 123

No glare found

Array 10 and OP 124

No glare found

Array 10 and OP 125

No glare found

Array 10 and OP 126

No glare found

Array 10 and OP 127

No glare found

Array 10 and OP 128

No glare found

Array 10 and OP 129

No glare found

Array 10 and OP 130

No glare found

Array 10 and OP 131

No glare found

Array 10 and OP 132

No glare found

Array 10 and OP 133

No glare found

Array 10 and OP 134

No glare found

Array 10 and OP 135

No glare found

Array 10 and OP 136

No glare found

Array 10 and OP 137

No glare found

Array 10 and OP 138

No glare found

Array 10 and OP 139

No glare found

Array 10 and OP 140

No glare found

Array 10 and OP 141

No glare found

Array 10 and OP 142

No glare found

Array 10 and OP 143

No glare found

Array 10 and OP 144

No glare found

Array 10 and OP 145

No glare found

Array 10 and OP 146

No glare found

Array 10 and OP 147

No glare found

Array 10 and OP 148

No glare found

Array 10 and OP 149

No glare found

Array 10 and OP 150

No glare found

Array 10 and OP 151

No glare found

Array 10 and OP 152

No glare found

Array 10 and OP 153

No glare found

Array 10 and OP 154

No glare found

Array 10 and OP 155

No glare found

Array 10 and OP 156

No glare found

Array 10 and OP 157

No glare found

Array 10 and OP 158

No glare found

Array 10 and OP 159

No glare found

Array 10 and OP 160

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 11 and OP 121

No glare found

Array 11 and OP 122

No glare found

Array 11 and OP 123

No glare found

Array 11 and OP 124

No glare found

Array 11 and OP 125

No glare found

Array 11 and OP 126

No glare found

Array 11 and OP 127

No glare found

Array 11 and OP 128

No glare found

Array 11 and OP 129

No glare found

Array 11 and OP 130

No glare found

Array 11 and OP 131

No glare found

Array 11 and OP 132

No glare found

Array 11 and OP 133

No glare found

Array 11 and OP 134

No glare found

Array 11 and OP 135

No glare found

Array 11 and OP 136

No glare found

Array 11 and OP 137

No glare found

Array 11 and OP 138

No glare found

Array 11 and OP 139

No glare found

Array 11 and OP 140

No glare found

Array 11 and OP 141

No glare found

Array 11 and OP 142

No glare found

Array 11 and OP 143

No glare found

Array 11 and OP 144

No glare found

Array 11 and OP 145

No glare found

Array 11 and OP 146

No glare found

Array 11 and OP 147

No glare found

Array 11 and OP 148

No glare found

Array 11 and OP 149

No glare found

Array 11 and OP 150

No glare found

Array 11 and OP 151

No glare found

Array 11 and OP 152

No glare found

Array 11 and OP 153

No glare found

Array 11 and OP 154

No glare found

Array 11 and OP 155

No glare found

Array 11 and OP 156

No glare found

Array 11 and OP 157

No glare found

Array 11 and OP 158

No glare found

Array 11 and OP 159

No glare found

Array 11 and OP 160

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 12 and OP 121

No glare found

Array 12 and OP 122

No glare found

Array 12 and OP 123

No glare found

Array 12 and OP 124

No glare found

Array 12 and OP 125

No glare found

Array 12 and OP 126

No glare found

Array 12 and OP 127

No glare found

Array 12 and OP 128

No glare found

Array 12 and OP 129

No glare found

Array 12 and OP 130

No glare found

Array 12 and OP 131

No glare found

Array 12 and OP 132

No glare found

Array 12 and OP 133

No glare found

Array 12 and OP 134

No glare found

Array 12 and OP 135

No glare found

Array 12 and OP 136

No glare found

Array 12 and OP 137

No glare found

Array 12 and OP 138

No glare found

Array 12 and OP 139

No glare found

Array 12 and OP 140

No glare found

Array 12 and OP 141

No glare found

Array 12 and OP 142

No glare found

Array 12 and OP 143

No glare found

Array 12 and OP 144

No glare found

Array 12 and OP 145

No glare found

Array 12 and OP 146

No glare found

Array 12 and OP 147

No glare found

Array 12 and OP 148

No glare found

Array 12 and OP 149

No glare found

Array 12 and OP 150

No glare found

Array 12 and OP 151

No glare found

Array 12 and OP 152

No glare found

Array 12 and OP 153

No glare found

Array 12 and OP 154

No glare found

Array 12 and OP 155

No glare found

Array 12 and OP 156

No glare found

Array 12 and OP 157

No glare found

Array 12 and OP 158

No glare found

Array 12 and OP 159

No glare found

Array 12 and OP 160

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 13 and OP 121

No glare found

Array 13 and OP 122

No glare found

Array 13 and OP 123

No glare found

Array 13 and OP 124

No glare found

Array 13 and OP 125

No glare found

Array 13 and OP 126

No glare found

Array 13 and OP 127

No glare found

Array 13 and OP 128

No glare found

Array 13 and OP 129

No glare found

Array 13 and OP 130

No glare found

Array 13 and OP 131

No glare found

Array 13 and OP 132

No glare found

Array 13 and OP 133

No glare found

Array 13 and OP 134

No glare found

Array 13 and OP 135

No glare found

Array 13 and OP 136

No glare found

Array 13 and OP 137

No glare found

Array 13 and OP 138

No glare found

Array 13 and OP 139

No glare found

Array 13 and OP 140

No glare found

Array 13 and OP 141

No glare found

Array 13 and OP 142

No glare found

Array 13 and OP 143

No glare found

Array 13 and OP 144

No glare found

Array 13 and OP 145

No glare found

Array 13 and OP 146

No glare found

Array 13 and OP 147

No glare found

Array 13 and OP 148

No glare found

Array 13 and OP 149

No glare found

Array 13 and OP 150

No glare found

Array 13 and OP 151

No glare found

Array 13 and OP 152

No glare found

Array 13 and OP 153

No glare found

Array 13 and OP 154

No glare found

Array 13 and OP 155

No glare found

Array 13 and OP 156

No glare found

Array 13 and OP 157

No glare found

Array 13 and OP 158

No glare found

Array 13 and OP 159

No glare found

Array 13 and OP 160

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 14 and OP 121

No glare found

Array 14 and OP 122

No glare found

Array 14 and OP 123

No glare found

Array 14 and OP 124

No glare found

Array 14 and OP 125

No glare found

Array 14 and OP 126

No glare found

Array 14 and OP 127

No glare found

Array 14 and OP 128

No glare found

Array 14 and OP 129

No glare found

Array 14 and OP 130

No glare found

Array 14 and OP 131

No glare found

Array 14 and OP 132

No glare found

Array 14 and OP 133

No glare found

Array 14 and OP 134

No glare found

Array 14 and OP 135

No glare found

Array 14 and OP 136

No glare found

Array 14 and OP 137

No glare found

Array 14 and OP 138

No glare found

Array 14 and OP 139

No glare found

Array 14 and OP 140

No glare found

Array 14 and OP 141

No glare found

Array 14 and OP 142

No glare found

Array 14 and OP 143

No glare found

Array 14 and OP 144

No glare found

Array 14 and OP 145

No glare found

Array 14 and OP 146

No glare found

Array 14 and OP 147

No glare found

Array 14 and OP 148

No glare found

Array 14 and OP 149

No glare found

Array 14 and OP 150

No glare found

Array 14 and OP 151

No glare found

Array 14 and OP 152

No glare found

Array 14 and OP 153

No glare found

Array 14 and OP 154

No glare found

Array 14 and OP 155

No glare found

Array 14 and OP 156

No glare found

Array 14 and OP 157

No glare found

Array 14 and OP 158

No glare found

Array 14 and OP 159

No glare found

Array 14 and OP 160

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 15 and OP 121

No glare found

Array 15 and OP 122

No glare found

Array 15 and OP 123

No glare found

Array 15 and OP 124

No glare found

Array 15 and OP 125

No glare found

Array 15 and OP 126

No glare found

Array 15 and OP 127

No glare found

Array 15 and OP 128

No glare found

Array 15 and OP 129

No glare found

Array 15 and OP 130

No glare found

Array 15 and OP 131

No glare found

Array 15 and OP 132

No glare found

Array 15 and OP 133

No glare found

Array 15 and OP 134

No glare found

Array 15 and OP 135

No glare found

Array 15 and OP 136

No glare found

Array 15 and OP 137

No glare found

Array 15 and OP 138

No glare found

Array 15 and OP 139

No glare found

Array 15 and OP 140

No glare found

Array 15 and OP 141

No glare found

Array 15 and OP 142

No glare found

Array 15 and OP 143

No glare found

Array 15 and OP 144

No glare found

Array 15 and OP 145

No glare found

Array 15 and OP 146

No glare found

Array 15 and OP 147

No glare found

Array 15 and OP 148

No glare found

Array 15 and OP 149

No glare found

Array 15 and OP 150

No glare found

Array 15 and OP 151

No glare found

Array 15 and OP 152

No glare found

Array 15 and OP 153

No glare found

Array 15 and OP 154

No glare found

Array 15 and OP 155

No glare found

Array 15 and OP 156

No glare found

Array 15 and OP 157

No glare found

Array 15 and OP 158

No glare found

Array 15 and OP 159

No glare found

Array 15 and OP 160

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 16 and OP 121

No glare found

Array 16 and OP 122

No glare found

Array 16 and OP 123

No glare found

Array 16 and OP 124

No glare found

Array 16 and OP 125

No glare found

Array 16 and OP 126

No glare found

Array 16 and OP 127

No glare found

Array 16 and OP 128

No glare found

Array 16 and OP 129

No glare found

Array 16 and OP 130

No glare found

Array 16 and OP 131

No glare found

Array 16 and OP 132

No glare found

Array 16 and OP 133

No glare found

Array 16 and OP 134

No glare found

Array 16 and OP 135

No glare found

Array 16 and OP 136

No glare found

Array 16 and OP 137

No glare found

Array 16 and OP 138

No glare found

Array 16 and OP 139

No glare found

Array 16 and OP 140

No glare found

Array 16 and OP 141

No glare found

Array 16 and OP 142

No glare found

Array 16 and OP 143

No glare found

Array 16 and OP 144

No glare found

Array 16 and OP 145

No glare found

Array 16 and OP 146

No glare found

Array 16 and OP 147

No glare found

Array 16 and OP 148

No glare found

Array 16 and OP 149

No glare found

Array 16 and OP 150

No glare found

Array 16 and OP 151

No glare found

Array 16 and OP 152

No glare found

Array 16 and OP 153

No glare found

Array 16 and OP 154

No glare found

Array 16 and OP 155

No glare found

Array 16 and OP 156

No glare found

Array 16 and OP 157

No glare found

Array 16 and OP 158

No glare found

Array 16 and OP 159

No glare found

Array 16 and OP 160

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 2 and OP 121

No glare found

Array 2 and OP 122

No glare found

Array 2 and OP 123

No glare found

Array 2 and OP 124

No glare found

Array 2 and OP 125

No glare found

Array 2 and OP 126

No glare found

Array 2 and OP 127

No glare found

Array 2 and OP 128

No glare found

Array 2 and OP 129

No glare found

Array 2 and OP 130

No glare found

Array 2 and OP 131

No glare found

Array 2 and OP 132

No glare found

Array 2 and OP 133

No glare found

Array 2 and OP 134

No glare found

Array 2 and OP 135

No glare found

Array 2 and OP 136

No glare found

Array 2 and OP 137

No glare found

Array 2 and OP 138

No glare found

Array 2 and OP 139

No glare found

Array 2 and OP 140

No glare found

Array 2 and OP 141

No glare found

Array 2 and OP 142

No glare found

Array 2 and OP 143

No glare found

Array 2 and OP 144

No glare found

Array 2 and OP 145

No glare found

Array 2 and OP 146

No glare found

Array 2 and OP 147

No glare found

Array 2 and OP 148

No glare found

Array 2 and OP 149

No glare found

Array 2 and OP 150

No glare found

Array 2 and OP 151

No glare found

Array 2 and OP 152

No glare found

Array 2 and OP 153

No glare found

Array 2 and OP 154

No glare found

Array 2 and OP 155

No glare found

Array 2 and OP 156

No glare found

Array 2 and OP 157

No glare found

Array 2 and OP 158

No glare found

Array 2 and OP 159

No glare found

Array 2 and OP 160

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 3 and OP 121

No glare found

Array 3 and OP 122

No glare found

Array 3 and OP 123

No glare found

Array 3 and OP 124

No glare found

Array 3 and OP 125

No glare found

Array 3 and OP 126

No glare found

Array 3 and OP 127

No glare found

Array 3 and OP 128

No glare found

Array 3 and OP 129

No glare found

Array 3 and OP 130

No glare found

Array 3 and OP 131

No glare found

Array 3 and OP 132

No glare found

Array 3 and OP 133

No glare found

Array 3 and OP 134

No glare found

Array 3 and OP 135

No glare found

Array 3 and OP 136

No glare found

Array 3 and OP 137

No glare found

Array 3 and OP 138

No glare found

Array 3 and OP 139

No glare found

Array 3 and OP 140

No glare found

Array 3 and OP 141

No glare found

Array 3 and OP 142

No glare found

Array 3 and OP 143

No glare found

Array 3 and OP 144

No glare found

Array 3 and OP 145

No glare found

Array 3 and OP 146

No glare found

Array 3 and OP 147

No glare found

Array 3 and OP 148

No glare found

Array 3 and OP 149

No glare found

Array 3 and OP 150

No glare found

Array 3 and OP 151

No glare found

Array 3 and OP 152

No glare found

Array 3 and OP 153

No glare found

Array 3 and OP 154

No glare found

Array 3 and OP 155

No glare found

Array 3 and OP 156

No glare found

Array 3 and OP 157

No glare found

Array 3 and OP 158

No glare found

Array 3 and OP 159

No glare found

Array 3 and OP 160

No glare found

PV: Array 4 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 4 and OP 121

No glare found

Array 4 and OP 122

No glare found

Array 4 and OP 123

No glare found

Array 4 and OP 124

No glare found

Array 4 and OP 125

No glare found

Array 4 and OP 126

No glare found

Array 4 and OP 127

No glare found

Array 4 and OP 128

No glare found

Array 4 and OP 129

No glare found

Array 4 and OP 130

No glare found

Array 4 and OP 131

No glare found

Array 4 and OP 132

No glare found

Array 4 and OP 133

No glare found

Array 4 and OP 134

No glare found

Array 4 and OP 135

No glare found

Array 4 and OP 136

No glare found

Array 4 and OP 137

No glare found

Array 4 and OP 138

No glare found

Array 4 and OP 139

No glare found

Array 4 and OP 140

No glare found

Array 4 and OP 141

No glare found

Array 4 and OP 142

No glare found

Array 4 and OP 143

No glare found

Array 4 and OP 144

No glare found

Array 4 and OP 145

No glare found

Array 4 and OP 146

No glare found

Array 4 and OP 147

No glare found

Array 4 and OP 148

No glare found

Array 4 and OP 149

No glare found

Array 4 and OP 150

No glare found

Array 4 and OP 151

No glare found

Array 4 and OP 152

No glare found

Array 4 and OP 153

No glare found

Array 4 and OP 154

No glare found

Array 4 and OP 155

No glare found

Array 4 and OP 156

No glare found

Array 4 and OP 157

No glare found

Array 4 and OP 158

No glare found

Array 4 and OP 159

No glare found

Array 4 and OP 160

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 5 and OP 121

No glare found

Array 5 and OP 122

No glare found

Array 5 and OP 123

No glare found

Array 5 and OP 124

No glare found

Array 5 and OP 125

No glare found

Array 5 and OP 126

No glare found

Array 5 and OP 127

No glare found

Array 5 and OP 128

No glare found

Array 5 and OP 129

No glare found

Array 5 and OP 130

No glare found

Array 5 and OP 131

No glare found

Array 5 and OP 132

No glare found

Array 5 and OP 133

No glare found

Array 5 and OP 134

No glare found

Array 5 and OP 135

No glare found

Array 5 and OP 136

No glare found

Array 5 and OP 137

No glare found

Array 5 and OP 138

No glare found

Array 5 and OP 139

No glare found

Array 5 and OP 140

No glare found

Array 5 and OP 141

No glare found

Array 5 and OP 142

No glare found

Array 5 and OP 143

No glare found

Array 5 and OP 144

No glare found

Array 5 and OP 145

No glare found

Array 5 and OP 146

No glare found

Array 5 and OP 147

No glare found

Array 5 and OP 148

No glare found

Array 5 and OP 149

No glare found

Array 5 and OP 150

No glare found

Array 5 and OP 151

No glare found

Array 5 and OP 152

No glare found

Array 5 and OP 153

No glare found

Array 5 and OP 154

No glare found

Array 5 and OP 155

No glare found

Array 5 and OP 156

No glare found

Array 5 and OP 157

No glare found

Array 5 and OP 158

No glare found

Array 5 and OP 159

No glare found

Array 5 and OP 160

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 6 and OP 121

No glare found

Array 6 and OP 122

No glare found

Array 6 and OP 123

No glare found

Array 6 and OP 124

No glare found

Array 6 and OP 125

No glare found

Array 6 and OP 126

No glare found

Array 6 and OP 127

No glare found

Array 6 and OP 128

No glare found

Array 6 and OP 129

No glare found

Array 6 and OP 130

No glare found

Array 6 and OP 131

No glare found

Array 6 and OP 132

No glare found

Array 6 and OP 133

No glare found

Array 6 and OP 134

No glare found

Array 6 and OP 135

No glare found

Array 6 and OP 136

No glare found

Array 6 and OP 137

No glare found

Array 6 and OP 138

No glare found

Array 6 and OP 139

No glare found

Array 6 and OP 140

No glare found

Array 6 and OP 141

No glare found

Array 6 and OP 142

No glare found

Array 6 and OP 143

No glare found

Array 6 and OP 144

No glare found

Array 6 and OP 145

No glare found

Array 6 and OP 146

No glare found

Array 6 and OP 147

No glare found

Array 6 and OP 148

No glare found

Array 6 and OP 149

No glare found

Array 6 and OP 150

No glare found

Array 6 and OP 151

No glare found

Array 6 and OP 152

No glare found

Array 6 and OP 153

No glare found

Array 6 and OP 154

No glare found

Array 6 and OP 155

No glare found

Array 6 and OP 156

No glare found

Array 6 and OP 157

No glare found

Array 6 and OP 158

No glare found

Array 6 and OP 159

No glare found

Array 6 and OP 160

No glare found

PV: Array 7 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 7 and OP 121

No glare found

Array 7 and OP 122

No glare found

Array 7 and OP 123

No glare found

Array 7 and OP 124

No glare found

Array 7 and OP 125

No glare found

Array 7 and OP 126

No glare found

Array 7 and OP 127

No glare found

Array 7 and OP 128

No glare found

Array 7 and OP 129

No glare found

Array 7 and OP 130

No glare found

Array 7 and OP 131

No glare found

Array 7 and OP 132

No glare found

Array 7 and OP 133

No glare found

Array 7 and OP 134

No glare found

Array 7 and OP 135

No glare found

Array 7 and OP 136

No glare found

Array 7 and OP 137

No glare found

Array 7 and OP 138

No glare found

Array 7 and OP 139

No glare found

Array 7 and OP 140

No glare found

Array 7 and OP 141

No glare found

Array 7 and OP 142

No glare found

Array 7 and OP 143

No glare found

Array 7 and OP 144

No glare found

Array 7 and OP 145

No glare found

Array 7 and OP 146

No glare found

Array 7 and OP 147

No glare found

Array 7 and OP 148

No glare found

Array 7 and OP 149

No glare found

Array 7 and OP 150

No glare found

Array 7 and OP 151

No glare found

Array 7 and OP 152

No glare found

Array 7 and OP 153

No glare found

Array 7 and OP 154

No glare found

Array 7 and OP 155

No glare found

Array 7 and OP 156

No glare found

Array 7 and OP 157

No glare found

Array 7 and OP 158

No glare found

Array 7 and OP 159

No glare found

Array 7 and OP 160

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 8 and OP 121

No glare found

Array 8 and OP 122

No glare found

Array 8 and OP 123

No glare found

Array 8 and OP 124

No glare found

Array 8 and OP 125

No glare found

Array 8 and OP 126

No glare found

Array 8 and OP 127

No glare found

Array 8 and OP 128

No glare found

Array 8 and OP 129

No glare found

Array 8 and OP 130

No glare found

Array 8 and OP 131

No glare found

Array 8 and OP 132

No glare found

Array 8 and OP 133

No glare found

Array 8 and OP 134

No glare found

Array 8 and OP 135

No glare found

Array 8 and OP 136

No glare found

Array 8 and OP 137

No glare found

Array 8 and OP 138

No glare found

Array 8 and OP 139

No glare found

Array 8 and OP 140

No glare found

Array 8 and OP 141

No glare found

Array 8 and OP 142

No glare found

Array 8 and OP 143

No glare found

Array 8 and OP 144

No glare found

Array 8 and OP 145

No glare found

Array 8 and OP 146

No glare found

Array 8 and OP 147

No glare found

Array 8 and OP 148

No glare found

Array 8 and OP 149

No glare found

Array 8 and OP 150

No glare found

Array 8 and OP 151

No glare found

Array 8 and OP 152

No glare found

Array 8 and OP 153

No glare found

Array 8 and OP 154

No glare found

Array 8 and OP 155

No glare found

Array 8 and OP 156

No glare found

Array 8 and OP 157

No glare found

Array 8 and OP 158

No glare found

Array 8 and OP 159

No glare found

Array 8 and OP 160

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 121	0	0.0	0	0.0
OP 122	0	0.0	0	0.0
OP 123	0	0.0	0	0.0
OP 124	0	0.0	0	0.0
OP 125	0	0.0	0	0.0
OP 126	0	0.0	0	0.0
OP 127	0	0.0	0	0.0
OP 128	0	0.0	0	0.0
OP 129	0	0.0	0	0.0
OP 130	0	0.0	0	0.0
OP 131	0	0.0	0	0.0
OP 132	0	0.0	0	0.0
OP 133	0	0.0	0	0.0
OP 134	0	0.0	0	0.0
OP 135	0	0.0	0	0.0
OP 136	0	0.0	0	0.0
OP 137	0	0.0	0	0.0
OP 138	0	0.0	0	0.0
OP 139	0	0.0	0	0.0
OP 140	0	0.0	0	0.0
OP 141	0	0.0	0	0.0
OP 142	0	0.0	0	0.0
OP 143	0	0.0	0	0.0
OP 144	0	0.0	0	0.0
OP 145	0	0.0	0	0.0
OP 146	0	0.0	0	0.0
OP 147	0	0.0	0	0.0
OP 148	0	0.0	0	0.0
OP 149	0	0.0	0	0.0
OP 150	0	0.0	0	0.0
OP 151	0	0.0	0	0.0
OP 152	0	0.0	0	0.0
OP 153	0	0.0	0	0.0
OP 154	0	0.0	0	0.0
OP 155	0	0.0	0	0.0
OP 156	0	0.0	0	0.0
OP 157	0	0.0	0	0.0
OP 158	0	0.0	0	0.0
OP 159	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 160	0	0.0	0	0.0

Array 9 and OP 121

No glare found

Array 9 and OP 122

No glare found

Array 9 and OP 123

No glare found

Array 9 and OP 124

No glare found

Array 9 and OP 125

No glare found

Array 9 and OP 126

No glare found

Array 9 and OP 127

No glare found

Array 9 and OP 128

No glare found

Array 9 and OP 129

No glare found

Array 9 and OP 130

No glare found

Array 9 and OP 131

No glare found

Array 9 and OP 132

No glare found

Array 9 and OP 133

No glare found

Array 9 and OP 134

No glare found

Array 9 and OP 135

No glare found

Array 9 and OP 136

No glare found

Array 9 and OP 137

No glare found

Array 9 and OP 138

No glare found

Array 9 and OP 139

No glare found

Array 9 and OP 140

No glare found

Array 9 and OP 141

No glare found

Array 9 and OP 142

No glare found

Array 9 and OP 143

No glare found

Array 9 and OP 144

No glare found

Array 9 and OP 145

No glare found

Array 9 and OP 146

No glare found

Array 9 and OP 147

No glare found

Array 9 and OP 148

No glare found

Array 9 and OP 149

No glare found

Array 9 and OP 150

No glare found

Array 9 and OP 151

No glare found

Array 9 and OP 152

No glare found

Array 9 and OP 153

No glare found

Array 9 and OP 154

No glare found

Array 9 and OP 155

No glare found

Array 9 and OP 156

No glare found

Array 9 and OP 157

No glare found

Array 9 and OP 158

No glare found

Array 9 and OP 159

No glare found

Array 9 and OP 160

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - OP 161-168**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91957.16149

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 V2



Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

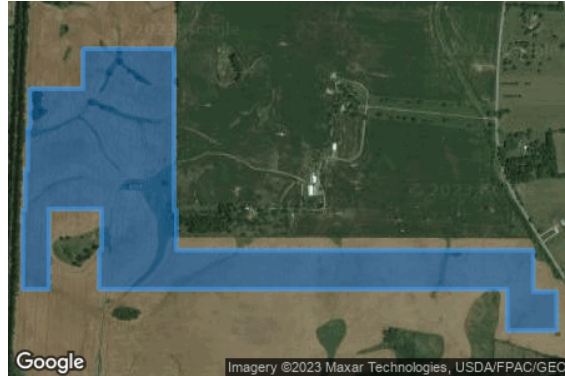
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

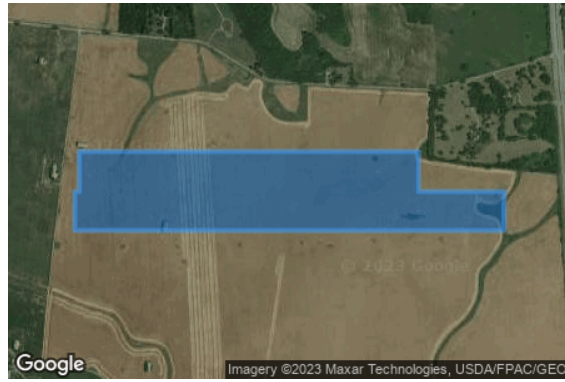
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

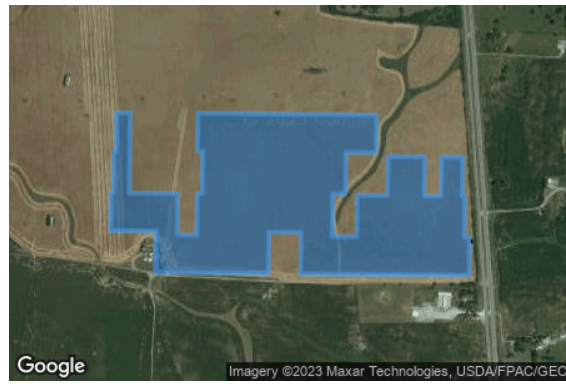
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

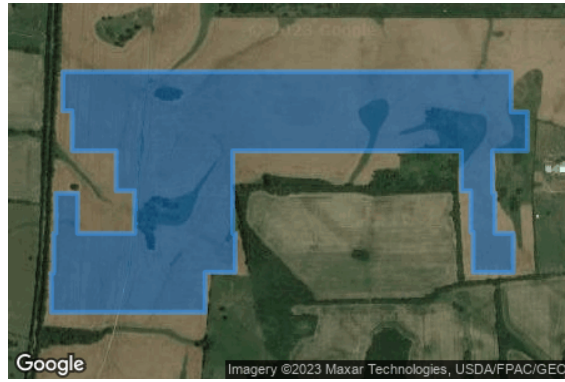
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

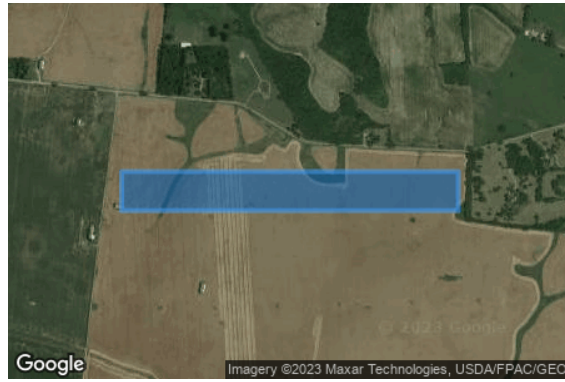
Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 161	161	37.825327	-84.871955	863.20	16.00
OP 162	162	37.824816	-84.878520	830.41	16.00
OP 163	163	37.829945	-84.878548	824.78	16.00
OP 164	164	37.837812	-84.873037	841.82	16.00
OP 165	165	37.845126	-84.884046	815.61	16.00
OP 166	166	37.847186	-84.880962	808.47	16.00
OP 167	167	37.850523	-84.876477	834.11	16.00
OP 168	168	37.851707	-84.873143	837.55	16.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 1 and OP 161

No glare found

Array 1 and OP 162

No glare found

Array 1 and OP 163

No glare found

Array 1 and OP 164

No glare found

Array 1 and OP 165

No glare found

Array 1 and OP 166

No glare found

Array 1 and OP 167

No glare found

Array 1 and OP 168

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 10 and OP 161

No glare found

Array 10 and OP 162

No glare found

Array 10 and OP 163

No glare found

Array 10 and OP 164

No glare found

Array 10 and OP 165

No glare found

Array 10 and OP 166

No glare found

Array 10 and OP 167

No glare found

Array 10 and OP 168

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 11 and OP 161

No glare found

Array 11 and OP 162

No glare found

Array 11 and OP 163

No glare found

Array 11 and OP 164

No glare found

Array 11 and OP 165

No glare found

Array 11 and OP 166

No glare found

Array 11 and OP 167

No glare found

Array 11 and OP 168

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 12 and OP 161

No glare found

Array 12 and OP 162

No glare found

Array 12 and OP 163

No glare found

Array 12 and OP 164

No glare found

Array 12 and OP 165

No glare found

Array 12 and OP 166

No glare found

Array 12 and OP 167

No glare found

Array 12 and OP 168

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 13 and OP 161

No glare found

Array 13 and OP 162

No glare found

Array 13 and OP 163

No glare found

Array 13 and OP 164

No glare found

Array 13 and OP 165

No glare found

Array 13 and OP 166

No glare found

Array 13 and OP 167

No glare found

Array 13 and OP 168

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 14 and OP 161

No glare found

Array 14 and OP 162

No glare found

Array 14 and OP 163

No glare found

Array 14 and OP 164

No glare found

Array 14 and OP 165

No glare found

Array 14 and OP 166

No glare found

Array 14 and OP 167

No glare found

Array 14 and OP 168

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 15 and OP 161

No glare found

Array 15 and OP 162

No glare found

Array 15 and OP 163

No glare found

Array 15 and OP 164

No glare found

Array 15 and OP 165

No glare found

Array 15 and OP 166

No glare found

Array 15 and OP 167

No glare found

Array 15 and OP 168

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 16 and OP 161

No glare found

Array 16 and OP 162

No glare found

Array 16 and OP 163

No glare found

Array 16 and OP 164

No glare found

Array 16 and OP 165

No glare found

Array 16 and OP 166

No glare found

Array 16 and OP 167

No glare found

Array 16 and OP 168

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 2 and OP 161

No glare found

Array 2 and OP 162

No glare found

Array 2 and OP 163

No glare found

Array 2 and OP 164

No glare found

Array 2 and OP 165

No glare found

Array 2 and OP 166

No glare found

Array 2 and OP 167

No glare found

Array 2 and OP 168

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 3 and OP 161

No glare found

Array 3 and OP 162

No glare found

Array 3 and OP 163

No glare found

Array 3 and OP 164

No glare found

Array 3 and OP 165

No glare found

Array 3 and OP 166

No glare found

Array 3 and OP 167

No glare found

Array 3 and OP 168

No glare found

PV: Array 4 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 4 and OP 161

No glare found

Array 4 and OP 162

No glare found

Array 4 and OP 163

No glare found

Array 4 and OP 164

No glare found

Array 4 and OP 165

No glare found

Array 4 and OP 166

No glare found

Array 4 and OP 167

No glare found

Array 4 and OP 168

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 5 and OP 161

No glare found

Array 5 and OP 162

No glare found

Array 5 and OP 163

No glare found

Array 5 and OP 164

No glare found

Array 5 and OP 165

No glare found

Array 5 and OP 166

No glare found

Array 5 and OP 167

No glare found

Array 5 and OP 168

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 6 and OP 161

No glare found

Array 6 and OP 162

No glare found

Array 6 and OP 163

No glare found

Array 6 and OP 164

No glare found

Array 6 and OP 165

No glare found

Array 6 and OP 166

No glare found

Array 6 and OP 167

No glare found

Array 6 and OP 168

No glare found

PV: Array 7 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 7 and OP 161

No glare found

Array 7 and OP 162

No glare found

Array 7 and OP 163

No glare found

Array 7 and OP 164

No glare found

Array 7 and OP 165

No glare found

Array 7 and OP 166

No glare found

Array 7 and OP 167

No glare found

Array 7 and OP 168

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 8 and OP 161

No glare found

Array 8 and OP 162

No glare found

Array 8 and OP 163

No glare found

Array 8 and OP 164

No glare found

Array 8 and OP 165

No glare found

Array 8 and OP 166

No glare found

Array 8 and OP 167

No glare found

Array 8 and OP 168

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 161	0	0.0	0	0.0
OP 162	0	0.0	0	0.0
OP 163	0	0.0	0	0.0
OP 164	0	0.0	0	0.0
OP 165	0	0.0	0	0.0
OP 166	0	0.0	0	0.0
OP 167	0	0.0	0	0.0
OP 168	0	0.0	0	0.0

Array 9 and OP 161

No glare found

Array 9 and OP 162

No glare found

Array 9 and OP 163

No glare found

Array 9 and OP 164

No glare found

Array 9 and OP 165

No glare found

Array 9 and OP 166

No glare found

Array 9 and OP 167

No glare found

Array 9 and OP 168

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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FORGESOLAR GLARE ANALYSIS

Project: **LKE CAE/SAR**

An update to the proposed LKE Solar Array

Site configuration: **North Arrays - Routes**

Client: LG&E

Created 31 May, 2023

Updated 31 May, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 100 MW to 1 GW

Site ID 91950.16149

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 V2

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

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	174,597	2,909.9	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	361,527	6,025.4	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	355,412	5,923.5	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 4	180,712	3,011.9	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Component Data

PV Arrays

Name: Array 1
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 60.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.841019	-84.867215	862.00	6.00	868.00
2	37.839938	-84.867216	856.00	6.00	862.00
3	37.839939	-84.869047	854.00	6.00	860.00
4	37.838856	-84.869049	828.00	6.00	834.00
5	37.838855	-84.869127	829.00	6.00	835.00
6	37.837735	-84.869126	838.00	6.00	844.00
7	37.837734	-84.869205	839.00	6.00	845.00
8	37.836653	-84.869205	829.00	6.00	835.00
9	37.836653	-84.869285	829.00	6.00	835.00
10	37.834514	-84.869284	828.00	6.00	834.00
11	37.834515	-84.868382	821.00	6.00	827.00
12	37.836681	-84.868382	835.00	6.00	841.00
13	37.836681	-84.866579	857.00	6.00	863.00
14	37.835571	-84.866579	848.00	6.00	854.00
15	37.835571	-84.866657	847.00	6.00	853.00
16	37.834515	-84.866657	831.00	6.00	837.00
17	37.834513	-84.852639	867.00	6.00	873.00
18	37.833396	-84.852638	859.00	6.00	865.00
19	37.833396	-84.850939	862.00	6.00	868.00
20	37.834451	-84.850936	846.00	6.00	852.00
21	37.834451	-84.851734	855.00	6.00	861.00
22	37.835570	-84.851735	844.00	6.00	850.00
23	37.835571	-84.864000	845.00	6.00	851.00
24	37.836654	-84.864001	850.00	6.00	856.00
25	37.836653	-84.864082	849.00	6.00	855.00
26	37.841024	-84.864083	865.00	6.00	871.00

Name: Array 10

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

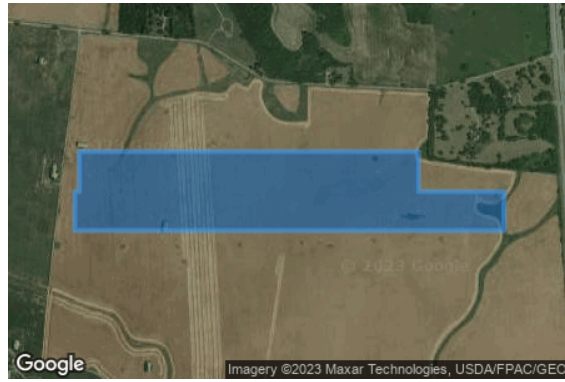
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821311	-84.866182	860.00	6.00	866.00
2	37.820229	-84.866179	849.00	6.00	855.00
3	37.820227	-84.866339	849.00	6.00	855.00
4	37.819176	-84.866337	841.00	6.00	847.00
5	37.819172	-84.851582	869.00	6.00	875.00
6	37.820227	-84.851576	880.00	6.00	886.00
7	37.820226	-84.854523	874.00	6.00	880.00
8	37.821311	-84.854525	886.00	6.00	892.00

Name: Array 11

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823512	-84.875019	835.00	6.00	841.00
2	37.822428	-84.875018	852.00	6.00	858.00
3	37.822458	-84.871488	856.00	6.00	862.00
4	37.823512	-84.871486	862.00	6.00	868.00

Name: Array 12

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822430	-84.875178	852.00	6.00	858.00
2	37.821376	-84.875176	846.00	6.00	852.00
3	37.821375	-84.871566	837.00	6.00	843.00
4	37.822458	-84.871567	854.00	6.00	860.00

Name: Array 13

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.816942	-84.876053	832.00	6.00	838.00
2	37.815857	-84.876052	843.00	6.00	849.00
3	37.815860	-84.876293	843.00	6.00	849.00
4	37.814805	-84.876294	851.00	6.00	857.00
5	37.814805	-84.875257	847.00	6.00	853.00
6	37.813686	-84.875256	880.00	6.00	886.00
7	37.813689	-84.872999	841.00	6.00	847.00
8	37.814804	-84.872999	839.00	6.00	845.00
9	37.814805	-84.872838	841.00	6.00	847.00
10	37.815861	-84.872837	841.00	6.00	847.00
11	37.815859	-84.874751	840.00	6.00	846.00
12	37.816941	-84.874752	834.00	6.00	840.00

Name: Array 14

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818440	-84.864342	851.00	6.00	857.00
2	37.817419	-84.864352	843.00	6.00	849.00
3	37.817406	-84.862318	853.00	6.00	859.00
4	37.818424	-84.862304	855.00	6.00	861.00

Name: Array 15

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

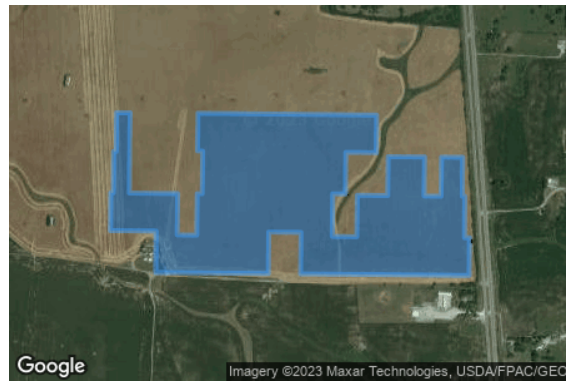
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818417	-84.861546	855.00	6.00	861.00
2	37.817365	-84.861558	849.00	6.00	855.00
3	37.817368	-84.861646	848.00	6.00	854.00
4	37.816245	-84.861659	843.00	6.00	849.00
5	37.816246	-84.861747	843.00	6.00	849.00
6	37.815227	-84.861757	845.00	6.00	851.00
7	37.815212	-84.860187	852.00	6.00	858.00
8	37.814093	-84.860200	842.00	6.00	848.00
9	37.814065	-84.856330	849.00	6.00	855.00
10	37.815185	-84.856318	860.00	6.00	866.00
11	37.815178	-84.855208	855.00	6.00	861.00
12	37.814056	-84.855222	849.00	6.00	855.00
13	37.814012	-84.849431	869.00	6.00	875.00
14	37.815033	-84.849418	861.00	6.00	867.00
15	37.815034	-84.849593	860.00	6.00	866.00
16	37.816156	-84.849581	876.00	6.00	882.00
17	37.816155	-84.849666	877.00	6.00	883.00
18	37.817208	-84.849654	882.00	6.00	888.00
19	37.817213	-84.850381	893.00	6.00	899.00
20	37.816156	-84.850394	880.00	6.00	886.00
21	37.816163	-84.850979	882.00	6.00	888.00
22	37.817219	-84.850962	889.00	6.00	895.00
23	37.817226	-84.852213	867.00	6.00	873.00
24	37.816173	-84.852229	868.00	6.00	874.00
25	37.816182	-84.853273	859.00	6.00	865.00
26	37.815060	-84.853291	853.00	6.00	859.00
27	37.815068	-84.854134	853.00	6.00	859.00
28	37.816222	-84.854117	864.00	6.00	870.00
29	37.816219	-84.853683	859.00	6.00	865.00
30	37.817341	-84.853668	869.00	6.00	875.00
31	37.817333	-84.852624	868.00	6.00	874.00
32	37.818350	-84.852610	875.00	6.00	881.00
33	37.818401	-84.858750	855.00	6.00	861.00
34	37.817381	-84.858764	865.00	6.00	871.00
35	37.817375	-84.858587	866.00	6.00	872.00
36	37.816223	-84.858604	868.00	6.00	874.00
37	37.816224	-84.858775	865.00	6.00	871.00
38	37.815102	-84.858790	859.00	6.00	865.00
39	37.815109	-84.859464	862.00	6.00	868.00
40	37.816227	-84.859448	862.00	6.00	868.00
41	37.816240	-84.861108	846.00	6.00	852.00
42	37.818412	-84.861081	855.00	6.00	861.00

Name: Array 16

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.818343	-84.851679	871.00	6.00	877.00
2	37.817325	-84.851688	874.00	6.00	880.00
3	37.817313	-84.849742	884.00	6.00	890.00
4	37.818329	-84.849729	900.00	6.00	906.00

Name: Array 2

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

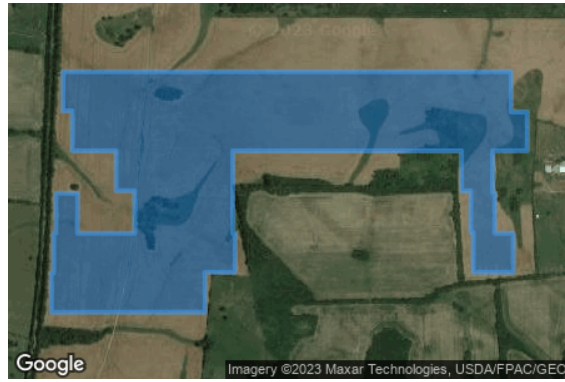
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.834452	-84.869367	831.00	6.00	837.00
2	37.833394	-84.869366	853.00	6.00	859.00
3	37.833397	-84.869047	850.00	6.00	856.00
4	37.832314	-84.869046	851.00	6.00	857.00
5	37.832311	-84.867534	854.00	6.00	860.00
6	37.831230	-84.867537	872.00	6.00	878.00
7	37.831231	-84.866898	876.00	6.00	882.00
8	37.830083	-84.866896	887.00	6.00	893.00
9	37.830081	-84.868859	873.00	6.00	879.00
10	37.831167	-84.868859	864.00	6.00	870.00
11	37.831164	-84.869605	860.00	6.00	866.00
12	37.830081	-84.869605	858.00	6.00	864.00
13	37.830083	-84.869681	858.00	6.00	864.00
14	37.829001	-84.869687	853.00	6.00	859.00
15	37.829000	-84.869764	854.00	6.00	860.00
16	37.827946	-84.869762	842.00	6.00	848.00
17	37.827945	-84.864482	859.00	6.00	865.00
18	37.829028	-84.864481	869.00	6.00	875.00
19	37.829027	-84.863445	875.00	6.00	881.00
20	37.830083	-84.863441	859.00	6.00	865.00
21	37.830081	-84.863522	858.00	6.00	864.00
22	37.832312	-84.863525	853.00	6.00	859.00
23	37.832311	-84.855667	884.00	6.00	890.00
24	37.831228	-84.855667	883.00	6.00	889.00
25	37.831230	-84.855347	887.00	6.00	893.00
26	37.830111	-84.855349	870.00	6.00	876.00
27	37.830111	-84.855270	870.00	6.00	876.00
28	37.829029	-84.855266	864.00	6.00	870.00
29	37.829027	-84.853885	862.00	6.00	868.00
30	37.830082	-84.853887	867.00	6.00	873.00
31	37.830080	-84.854522	875.00	6.00	881.00
32	37.831167	-84.854523	885.00	6.00	891.00
33	37.831166	-84.854601	885.00	6.00	891.00
34	37.832312	-84.854601	895.00	6.00	901.00
35	37.832311	-84.853407	888.00	6.00	894.00
36	37.833366	-84.853406	873.00	6.00	879.00
37	37.833365	-84.853963	881.00	6.00	887.00
38	37.834452	-84.853965	885.00	6.00	891.00

Name: Array 3

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.826793	-84.869924	837.00	6.00	843.00
2	37.825715	-84.869922	855.00	6.00	861.00
3	37.825710	-84.867500	860.00	6.00	866.00
4	37.826794	-84.867505	839.00	6.00	845.00

Name: Array 4

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825715	-84.870158	854.00	6.00	860.00
2	37.824661	-84.870158	869.00	6.00	875.00
3	37.824657	-84.864953	877.00	6.00	883.00
4	37.825714	-84.864955	856.00	6.00	862.00

Name: Array 5

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824595	-84.870399	869.00	6.00	875.00
2	37.823510	-84.870401	864.00	6.00	870.00
3	37.823512	-84.870479	865.00	6.00	871.00
4	37.822428	-84.870480	857.00	6.00	863.00
5	37.822432	-84.870639	857.00	6.00	863.00
6	37.821310	-84.870640	844.00	6.00	850.00
7	37.821371	-84.866869	854.00	6.00	860.00
8	37.822429	-84.866867	854.00	6.00	860.00
9	37.822429	-84.867824	855.00	6.00	861.00
10	37.824594	-84.867825	864.00	6.00	870.00

Name: Array 6

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.821310	-84.870718	845.00	6.00	851.00
2	37.820256	-84.870720	839.00	6.00	845.00
3	37.820256	-84.869127	842.00	6.00	848.00
4	37.819171	-84.869124	835.00	6.00	841.00
5	37.819171	-84.867105	849.00	6.00	855.00
6	37.820227	-84.867107	854.00	6.00	860.00
7	37.820257	-84.866947	854.00	6.00	860.00
8	37.821311	-84.866947	854.00	6.00	860.00

Name: Array 7

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.824597	-84.865700	887.00	6.00	893.00
2	37.823513	-84.865702	876.00	6.00	882.00
3	37.823512	-84.865030	883.00	6.00	889.00
4	37.824597	-84.865033	880.00	6.00	886.00

Name: Array 8

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.823514	-84.865860	873.00	6.00	879.00
2	37.822428	-84.865861	869.00	6.00	875.00
3	37.822431	-84.861132	880.00	6.00	886.00
4	37.823511	-84.861129	877.00	6.00	883.00

Name: Array 9

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 60.0°

Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.822429	-84.866020	867.00	6.00	873.00
2	37.821375	-84.866019	863.00	6.00	869.00
3	37.821372	-84.854444	868.00	6.00	874.00
4	37.822429	-84.854445	889.00	6.00	895.00

Route Receptors

Name: Route 1

Path type: One-way (toward increasing index)

Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.786093	-84.846226	894.77	4.00	898.77
2	37.793326	-84.846876	872.80	4.00	876.80
3	37.800507	-84.847522	870.93	4.00	874.93
4	37.804627	-84.847882	904.83	4.00	908.83
5	37.807746	-84.848150	892.32	4.00	896.32
6	37.812836	-84.848611	872.88	4.00	876.88
7	37.817362	-84.849014	880.88	4.00	884.88
8	37.820939	-84.849341	905.74	4.00	909.74
9	37.824917	-84.849690	874.37	4.00	878.37
10	37.825570	-84.849716	875.56	4.00	879.56
11	37.827227	-84.849657	886.69	4.00	890.69
12	37.831265	-84.849260	866.39	4.00	870.39
13	37.832862	-84.849180	855.23	4.00	859.23
14	37.834523	-84.849201	855.34	4.00	859.34
15	37.835823	-84.849287	858.13	4.00	862.13
16	37.837332	-84.849486	861.66	4.00	865.66
17	37.840683	-84.850086	848.10	4.00	852.10
18	37.844279	-84.850741	835.04	4.00	839.04
19	37.848498	-84.851497	862.80	4.00	866.80
20	37.850074	-84.851712	876.19	4.00	880.19
21	37.851134	-84.851801	880.42	4.00	884.42

Name: Route 10
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825247	-84.877692	815.33	8.00	823.33
2	37.824955	-84.870831	858.71	8.00	866.71
3	37.824917	-84.870198	861.66	8.00	869.66
4	37.824675	-84.867113	874.43	8.00	882.43
5	37.824565	-84.866131	890.74	8.00	898.74
6	37.824472	-84.864801	885.04	8.00	893.04
7	37.824374	-84.863680	882.08	8.00	890.08
8	37.824273	-84.862119	887.34	8.00	895.34
9	37.824226	-84.861883	889.94	8.00	897.94
10	37.824095	-84.861555	891.84	8.00	899.84
11	37.823290	-84.859866	890.00	8.00	898.00
12	37.823188	-84.859517	885.65	8.00	893.65
13	37.823154	-84.859034	876.08	8.00	884.08
14	37.823027	-84.856105	874.86	8.00	882.86
15	37.822955	-84.854206	893.90	8.00	901.90
16	37.822985	-84.853895	895.64	8.00	903.64
17	37.823874	-84.849893	877.09	8.00	885.09
18	37.824434	-84.847377	890.26	8.00	898.26
19	37.824938	-84.844840	898.56	8.00	906.56

Name: Route 11
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.846167	-84.851807	840.83	8.00	848.83
2	37.845320	-84.851925	837.70	8.00	845.70
3	37.842524	-84.852628	829.68	8.00	837.68
4	37.841765	-84.852783	836.94	8.00	844.94
5	37.841253	-84.852858	838.81	8.00	846.81
6	37.840770	-84.852907	843.62	8.00	851.62
7	37.840423	-84.852933	844.07	8.00	852.07
8	37.839160	-84.852976	839.15	8.00	847.15
9	37.838563	-84.852966	840.50	8.00	848.50
10	37.838207	-84.852907	839.26	8.00	847.26
11	37.837859	-84.852805	840.58	8.00	848.58
12	37.837393	-84.852606	839.99	8.00	847.99
13	37.836936	-84.852333	842.10	8.00	850.10
14	37.835364	-84.851099	844.96	8.00	852.96
15	37.834216	-84.850203	848.88	8.00	856.88
16	37.833907	-84.849983	847.86	8.00	855.86
17	37.833619	-84.849795	851.83	8.00	859.83
18	37.833424	-84.849699	852.65	8.00	860.65
19	37.833314	-84.849602	853.97	8.00	861.97
20	37.833271	-84.849463	855.18	8.00	863.18
21	37.833254	-84.849275	855.00	8.00	863.00
22	37.832725	-84.849275	855.18	8.00	863.18
23	37.832737	-84.848540	852.60	8.00	860.60
24	37.832614	-84.846233	861.80	8.00	869.80

Name: Route 12
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.786083	-84.858738	873.52	8.00	881.52
2	37.787432	-84.858920	876.32	8.00	884.32
3	37.787779	-84.859049	876.01	8.00	884.01
4	37.788084	-84.859274	880.03	8.00	888.03
5	37.788441	-84.859682	886.57	8.00	894.57
6	37.788754	-84.860154	897.43	8.00	905.43
7	37.788949	-84.860701	894.98	8.00	902.98
8	37.789331	-84.861935	886.15	8.00	894.15
9	37.790539	-84.866640	871.11	8.00	879.11
10	37.791175	-84.869027	852.12	8.00	860.12
11	37.791815	-84.871296	840.46	8.00	848.46
12	37.792396	-84.873259	826.86	8.00	834.86
13	37.792548	-84.873651	826.11	8.00	834.11
14	37.792875	-84.874037	824.91	8.00	832.91
15	37.794007	-84.875078	840.09	8.00	848.09
16	37.796575	-84.877250	849.86	8.00	857.86
17	37.797898	-84.878425	835.75	8.00	843.75
18	37.801429	-84.881306	817.35	8.00	825.35
19	37.802472	-84.882223	811.63	8.00	819.63
20	37.802878	-84.882668	816.57	8.00	824.57

Name: Route 2

Path type: One-way (toward increasing index)

Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.851123	-84.851963	879.16	4.00	883.16
2	37.849990	-84.851845	874.78	4.00	878.78
3	37.849310	-84.851802	867.49	4.00	871.49
4	37.848226	-84.851652	860.35	4.00	864.35
5	37.844128	-84.850909	833.90	4.00	837.90
6	37.840453	-84.850247	851.14	4.00	855.14
7	37.837317	-84.849683	862.00	4.00	866.00
8	37.835927	-84.849503	858.53	4.00	862.53
9	37.834722	-84.849404	857.03	4.00	861.03
10	37.832906	-84.849361	855.19	4.00	859.19
11	37.831466	-84.849447	864.31	4.00	868.31
12	37.826775	-84.849903	883.22	4.00	887.22
13	37.825432	-84.849914	875.52	4.00	879.52
14	37.822564	-84.849694	894.00	4.00	898.00
15	37.817758	-84.849265	885.82	4.00	889.82
16	37.810367	-84.848600	871.92	4.00	875.92
17	37.804586	-84.848085	903.43	4.00	907.43
18	37.800500	-84.847715	871.86	4.00	875.86
19	37.786108	-84.846438	895.26	4.00	899.26

Name: Route 3
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.851937	-84.875629	814.61	4.00	818.61
2	37.851217	-84.871767	818.73	4.00	822.73
3	37.850823	-84.869465	825.82	4.00	829.82
4	37.850721	-84.868790	820.22	4.00	824.22
5	37.850679	-84.868307	812.23	4.00	816.23
6	37.850158	-84.855958	836.26	4.00	840.26
7	37.849988	-84.851951	875.75	4.00	879.75

Name: Route 4
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.825247	-84.877692	815.33	4.00	819.33
2	37.824955	-84.870831	858.71	4.00	862.71
3	37.824917	-84.870198	861.66	4.00	865.66
4	37.824675	-84.867113	874.43	4.00	878.43
5	37.824565	-84.866131	890.74	4.00	894.74
6	37.824472	-84.864801	885.04	4.00	889.04
7	37.824374	-84.863680	882.08	4.00	886.08
8	37.824273	-84.862119	887.34	4.00	891.34
9	37.824226	-84.861883	889.94	4.00	893.94
10	37.824095	-84.861555	891.84	4.00	895.84
11	37.823290	-84.859866	890.00	4.00	894.00
12	37.823188	-84.859517	885.65	4.00	889.65
13	37.823154	-84.859034	876.08	4.00	880.08
14	37.823027	-84.856105	874.86	4.00	878.86
15	37.822955	-84.854206	893.90	4.00	897.90
16	37.822985	-84.853895	895.64	4.00	899.64
17	37.823874	-84.849893	877.09	4.00	881.09
18	37.824434	-84.847377	890.26	4.00	894.26
19	37.824938	-84.844840	898.56	4.00	902.56

Name: Route 5
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.846167	-84.851807	840.83	4.00	844.83
2	37.845320	-84.851925	837.70	4.00	841.70
3	37.842524	-84.852628	829.68	4.00	833.68
4	37.841765	-84.852783	836.94	4.00	840.94
5	37.841253	-84.852858	838.81	4.00	842.81
6	37.840770	-84.852907	843.62	4.00	847.62
7	37.840423	-84.852933	844.07	4.00	848.07
8	37.839160	-84.852976	839.15	4.00	843.15
9	37.838563	-84.852966	840.50	4.00	844.50
10	37.838207	-84.852907	839.26	4.00	843.26
11	37.837859	-84.852805	840.58	4.00	844.58
12	37.837393	-84.852606	839.99	4.00	843.99
13	37.836936	-84.852333	842.10	4.00	846.10
14	37.835364	-84.851099	844.96	4.00	848.96
15	37.834216	-84.850203	848.88	4.00	852.88
16	37.833907	-84.849983	847.86	4.00	851.86
17	37.833619	-84.849795	851.83	4.00	855.83
18	37.833424	-84.849699	852.65	4.00	856.65
19	37.833314	-84.849602	853.97	4.00	857.97
20	37.833271	-84.849463	855.18	4.00	859.18
21	37.833254	-84.849275	855.00	4.00	859.00
22	37.832725	-84.849275	855.18	4.00	859.18
23	37.832737	-84.848540	852.60	4.00	856.60
24	37.832614	-84.846233	861.80	4.00	865.80

Name: Route 6
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.786083	-84.858738	873.52	4.00	877.52
2	37.787432	-84.858920	876.32	4.00	880.32
3	37.787779	-84.859049	876.01	4.00	880.01
4	37.788084	-84.859274	880.03	4.00	884.03
5	37.788441	-84.859682	886.57	4.00	890.57
6	37.788754	-84.860154	897.43	4.00	901.43
7	37.788949	-84.860701	894.98	4.00	898.98
8	37.789331	-84.861935	886.15	4.00	890.15
9	37.790539	-84.866640	871.11	4.00	875.11
10	37.791175	-84.869027	852.12	4.00	856.12
11	37.791815	-84.871296	840.46	4.00	844.46
12	37.792396	-84.873259	826.86	4.00	830.86
13	37.792548	-84.873651	826.11	4.00	830.11
14	37.792875	-84.874037	824.91	4.00	828.91
15	37.794007	-84.875078	840.09	4.00	844.09
16	37.796575	-84.877250	849.86	4.00	853.86
17	37.797898	-84.878425	835.75	4.00	839.75
18	37.801429	-84.881306	817.35	4.00	821.35
19	37.802472	-84.882223	811.63	4.00	815.63
20	37.802878	-84.882668	816.57	4.00	820.57

Name: Route 7

Path type: One-way (toward increasing index)

Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.786093	-84.846226	894.77	8.00	902.77
2	37.793326	-84.846876	872.80	8.00	880.80
3	37.800507	-84.847522	870.93	8.00	878.93
4	37.804627	-84.847882	904.83	8.00	912.83
5	37.807746	-84.848150	892.32	8.00	900.32
6	37.812836	-84.848611	872.88	8.00	880.88
7	37.817362	-84.849014	880.88	8.00	888.88
8	37.820939	-84.849341	905.74	8.00	913.74
9	37.824917	-84.849690	874.37	8.00	882.37
10	37.825570	-84.849716	875.56	8.00	883.56
11	37.827227	-84.849657	886.69	8.00	894.69
12	37.831265	-84.849260	866.39	8.00	874.39
13	37.832862	-84.849180	855.23	8.00	863.23
14	37.834523	-84.849201	855.34	8.00	863.34
15	37.835823	-84.849287	858.13	8.00	866.13
16	37.837332	-84.849486	861.66	8.00	869.66
17	37.840683	-84.850086	848.10	8.00	856.10
18	37.844279	-84.850741	835.04	8.00	843.04
19	37.848498	-84.851497	862.80	8.00	870.80
20	37.850074	-84.851712	876.19	8.00	884.19
21	37.851134	-84.851801	880.42	8.00	888.42

Name: Route 8

Path type: One-way (toward increasing index)

Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.851123	-84.851963	879.16	8.00	887.16
2	37.849990	-84.851845	874.78	8.00	882.78
3	37.849310	-84.851802	867.49	8.00	875.49
4	37.848226	-84.851652	860.35	8.00	868.35
5	37.844128	-84.850909	833.90	8.00	841.90
6	37.840453	-84.850247	851.14	8.00	859.14
7	37.837317	-84.849683	862.00	8.00	870.00
8	37.835927	-84.849503	858.53	8.00	866.53
9	37.834722	-84.849404	857.03	8.00	865.03
10	37.832906	-84.849361	855.19	8.00	863.19
11	37.831466	-84.849447	864.31	8.00	872.31
12	37.826775	-84.849903	883.22	8.00	891.22
13	37.825432	-84.849914	875.52	8.00	883.52
14	37.822564	-84.849694	894.00	8.00	902.00
15	37.817758	-84.849265	885.82	8.00	893.82
16	37.810367	-84.848600	871.92	8.00	879.92
17	37.804586	-84.848085	903.43	8.00	911.43
18	37.800500	-84.847715	871.86	8.00	879.86
19	37.786108	-84.846438	895.26	8.00	903.26

Name: Route 9
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	37.851937	-84.875629	814.61	8.00	822.61
2	37.851217	-84.871767	818.73	8.00	826.73
3	37.850823	-84.869465	825.82	8.00	833.82
4	37.850721	-84.868790	820.22	8.00	828.22
5	37.850679	-84.868307	812.23	8.00	820.23
6	37.850158	-84.855958	836.26	8.00	844.26
7	37.849988	-84.851951	875.75	8.00	883.75

Glare Analysis Results

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

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
Array 1	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 10	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 11	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 12	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 13	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 14	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 15	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 16	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 2	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 3	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 4	SA tracking	SA tracking	174,597	2,909.9	0	0.0	-
Array 5	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 6	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 7	SA tracking	SA tracking	361,527	6,025.4	0	0.0	-
Array 8	SA tracking	SA tracking	0	0.0	0	0.0	-
Array 9	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	355,412	5,923.5	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	180,712	3,011.9	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

PV: Array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 1 and Route: Route 1

No glare found

Array 1 and Route: Route 10

No glare found

Array 1 and Route: Route 11

No glare found

Array 1 and Route: Route 12

No glare found

Array 1 and Route: Route 2

No glare found

Array 1 and Route: Route 3

No glare found

Array 1 and Route: Route 4

No glare found

Array 1 and Route: Route 5

No glare found

Array 1 and Route: Route 6

No glare found

Array 1 and Route: Route 7

No glare found

Array 1 and Route: Route 8

No glare found

Array 1 and Route: Route 9

No glare found

PV: Array 10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 10 and Route: Route 1

No glare found

Array 10 and Route: Route 10

No glare found

Array 10 and Route: Route 11

No glare found

Array 10 and Route: Route 12

No glare found

Array 10 and Route: Route 2

No glare found

Array 10 and Route: Route 3

No glare found

Array 10 and Route: Route 4

No glare found

Array 10 and Route: Route 5

No glare found

Array 10 and Route: Route 6

No glare found

Array 10 and Route: Route 7

No glare found

Array 10 and Route: Route 8

No glare found

Array 10 and Route: Route 9

No glare found

PV: Array 11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 11 and Route: Route 1

No glare found

Array 11 and Route: Route 10

No glare found

Array 11 and Route: Route 11

No glare found

Array 11 and Route: Route 12

No glare found

Array 11 and Route: Route 2

No glare found

Array 11 and Route: Route 3

No glare found

Array 11 and Route: Route 4

No glare found

Array 11 and Route: Route 5

No glare found

Array 11 and Route: Route 6

No glare found

Array 11 and Route: Route 7

No glare found

Array 11 and Route: Route 8

No glare found

Array 11 and Route: Route 9

No glare found

PV: Array 12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 12 and Route: Route 1

No glare found

Array 12 and Route: Route 10

No glare found

Array 12 and Route: Route 11

No glare found

Array 12 and Route: Route 12

No glare found

Array 12 and Route: Route 2

No glare found

Array 12 and Route: Route 3

No glare found

Array 12 and Route: Route 4

No glare found

Array 12 and Route: Route 5

No glare found

Array 12 and Route: Route 6

No glare found

Array 12 and Route: Route 7

No glare found

Array 12 and Route: Route 8

No glare found

Array 12 and Route: Route 9

No glare found

PV: Array 13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 13 and Route: Route 1

No glare found

Array 13 and Route: Route 10

No glare found

Array 13 and Route: Route 11

No glare found

Array 13 and Route: Route 12

No glare found

Array 13 and Route: Route 2

No glare found

Array 13 and Route: Route 3

No glare found

Array 13 and Route: Route 4

No glare found

Array 13 and Route: Route 5

No glare found

Array 13 and Route: Route 6

No glare found

Array 13 and Route: Route 7

No glare found

Array 13 and Route: Route 8

No glare found

Array 13 and Route: Route 9

No glare found

PV: Array 14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 14 and Route: Route 1

No glare found

Array 14 and Route: Route 10

No glare found

Array 14 and Route: Route 11

No glare found

Array 14 and Route: Route 12

No glare found

Array 14 and Route: Route 2

No glare found

Array 14 and Route: Route 3

No glare found

Array 14 and Route: Route 4

No glare found

Array 14 and Route: Route 5

No glare found

Array 14 and Route: Route 6

No glare found

Array 14 and Route: Route 7

No glare found

Array 14 and Route: Route 8

No glare found

Array 14 and Route: Route 9

No glare found

PV: Array 15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 15 and Route: Route 1

No glare found

Array 15 and Route: Route 10

No glare found

Array 15 and Route: Route 11

No glare found

Array 15 and Route: Route 12

No glare found

Array 15 and Route: Route 2

No glare found

Array 15 and Route: Route 3

No glare found

Array 15 and Route: Route 4

No glare found

Array 15 and Route: Route 5

No glare found

Array 15 and Route: Route 6

No glare found

Array 15 and Route: Route 7

No glare found

Array 15 and Route: Route 8

No glare found

Array 15 and Route: Route 9

No glare found

PV: Array 16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 16 and Route: Route 1

No glare found

Array 16 and Route: Route 10

No glare found

Array 16 and Route: Route 11

No glare found

Array 16 and Route: Route 12

No glare found

Array 16 and Route: Route 2

No glare found

Array 16 and Route: Route 3

No glare found

Array 16 and Route: Route 4

No glare found

Array 16 and Route: Route 5

No glare found

Array 16 and Route: Route 6

No glare found

Array 16 and Route: Route 7

No glare found

Array 16 and Route: Route 8

No glare found

Array 16 and Route: Route 9

No glare found

PV: Array 2 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 2 and Route: Route 1

No glare found

Array 2 and Route: Route 10

No glare found

Array 2 and Route: Route 11

No glare found

Array 2 and Route: Route 12

No glare found

Array 2 and Route: Route 2

No glare found

Array 2 and Route: Route 3

No glare found

Array 2 and Route: Route 4

No glare found

Array 2 and Route: Route 5

No glare found

Array 2 and Route: Route 6

No glare found

Array 2 and Route: Route 7

No glare found

Array 2 and Route: Route 8

No glare found

Array 2 and Route: Route 9

No glare found

PV: Array 3 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 3 and Route: Route 1

No glare found

Array 3 and Route: Route 10

No glare found

Array 3 and Route: Route 11

No glare found

Array 3 and Route: Route 12

No glare found

Array 3 and Route: Route 2

No glare found

Array 3 and Route: Route 3

No glare found

Array 3 and Route: Route 4

No glare found

Array 3 and Route: Route 5

No glare found

Array 3 and Route: Route 6

No glare found

Array 3 and Route: Route 7

No glare found

Array 3 and Route: Route 8

No glare found

Array 3 and Route: Route 9

No glare found

PV: Array 4 low potential for temporary after-image

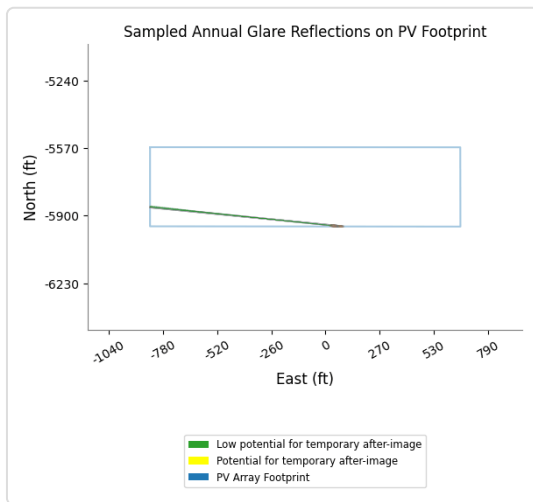
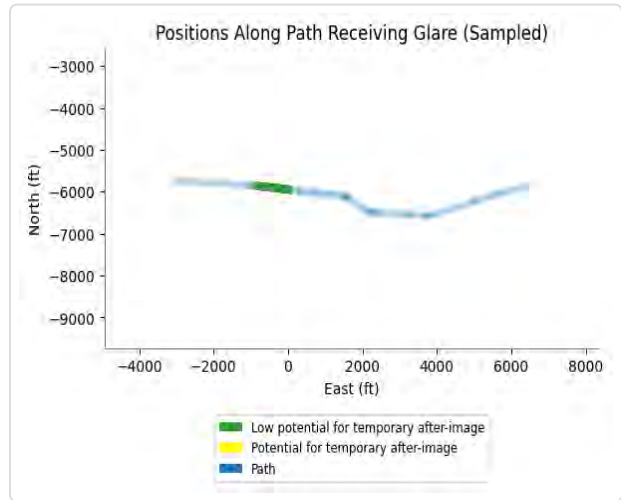
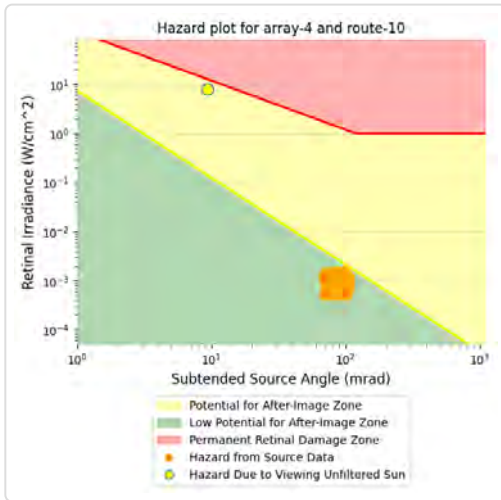
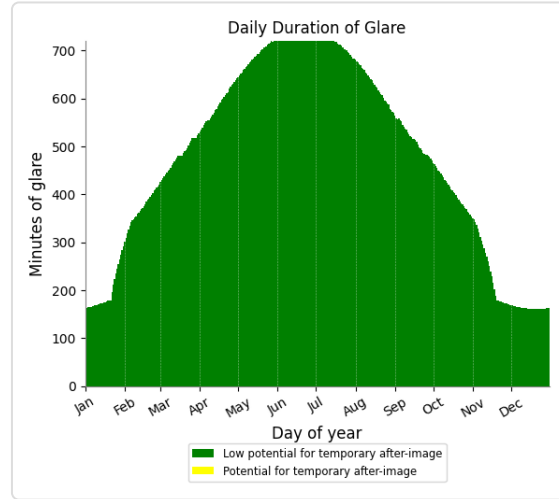
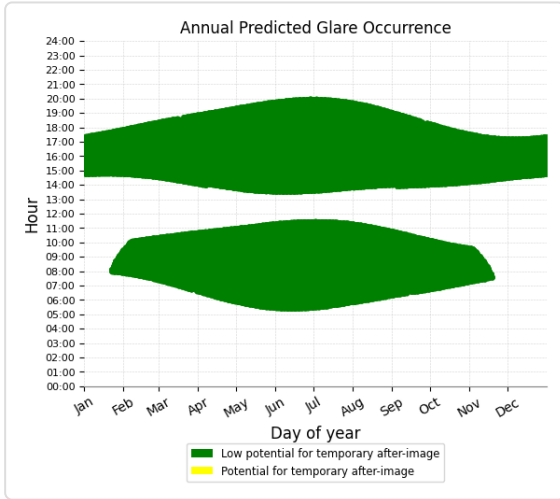
Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 10	174,597	2,909.9	0	0.0
Route 1	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 4 and Route: Route 10

Yellow glare: none

Green glare: 174,597 min.



Array 4 and Route: Route 1

No glare found

Array 4 and Route: Route 11

No glare found

Array 4 and Route: Route 12

No glare found

Array 4 and Route: Route 2

No glare found

Array 4 and Route: Route 3

No glare found

Array 4 and Route: Route 4

No glare found

Array 4 and Route: Route 5

No glare found

Array 4 and Route: Route 6

No glare found

Array 4 and Route: Route 7

No glare found

Array 4 and Route: Route 8

No glare found

Array 4 and Route: Route 9

No glare found

PV: Array 5 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 5 and Route: Route 1

No glare found

Array 5 and Route: Route 10

No glare found

Array 5 and Route: Route 11

No glare found

Array 5 and Route: Route 12

No glare found

Array 5 and Route: Route 2

No glare found

Array 5 and Route: Route 3

No glare found

Array 5 and Route: Route 4

No glare found

Array 5 and Route: Route 5

No glare found

Array 5 and Route: Route 6

No glare found

Array 5 and Route: Route 7

No glare found

Array 5 and Route: Route 8

No glare found

Array 5 and Route: Route 9

No glare found

PV: Array 6 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 6 and Route: Route 1

No glare found

Array 6 and Route: Route 10

No glare found

Array 6 and Route: Route 11

No glare found

Array 6 and Route: Route 12

No glare found

Array 6 and Route: Route 2

No glare found

Array 6 and Route: Route 3

No glare found

Array 6 and Route: Route 4

No glare found

Array 6 and Route: Route 5

No glare found

Array 6 and Route: Route 6

No glare found

Array 6 and Route: Route 7

No glare found

Array 6 and Route: Route 8

No glare found

Array 6 and Route: Route 9

No glare found

PV: Array 7 low potential for temporary after-image

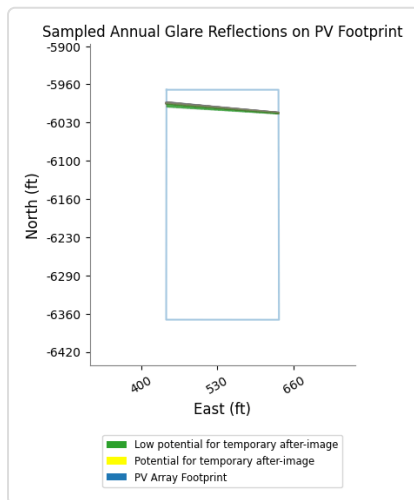
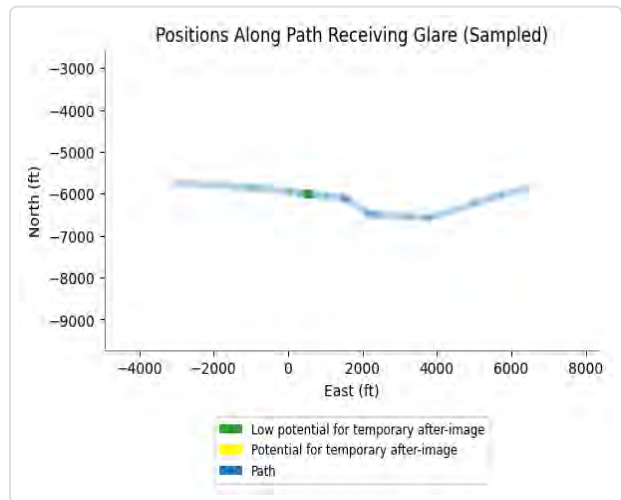
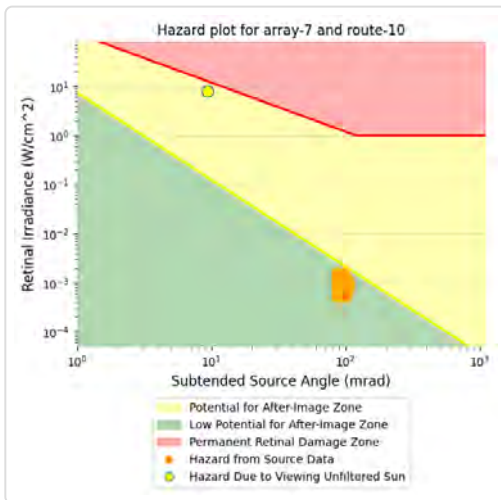
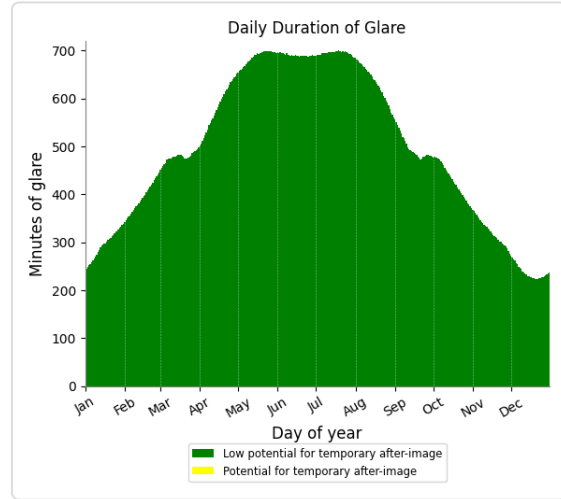
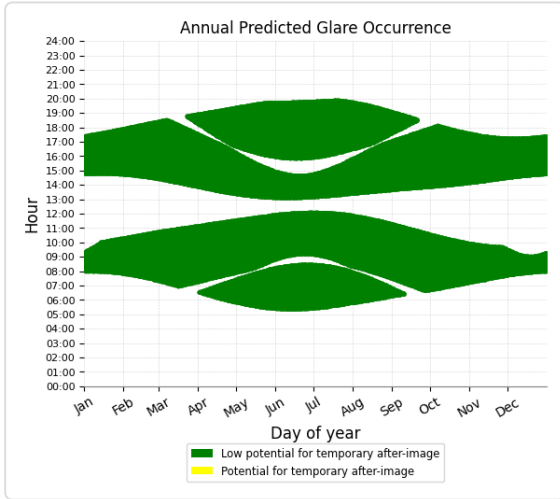
Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 10	180,815	3,013.6	0	0.0
Route 4	180,712	3,011.9	0	0.0
Route 1	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 7 and Route: Route 10

Yellow glare: none

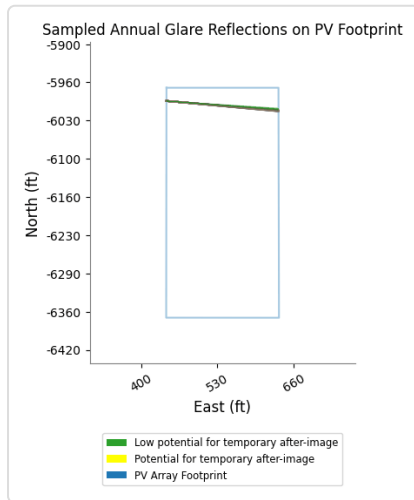
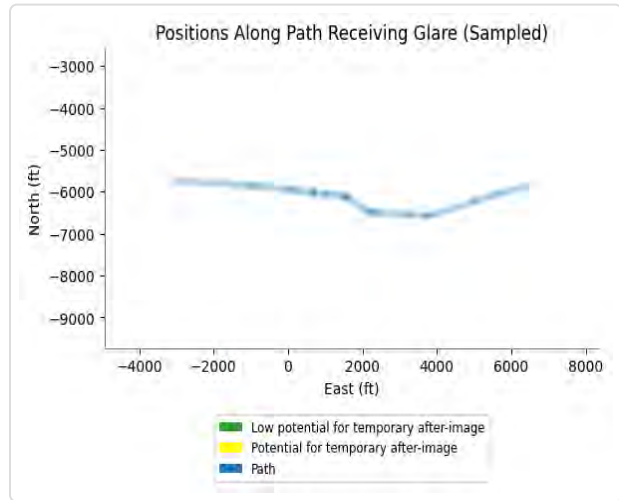
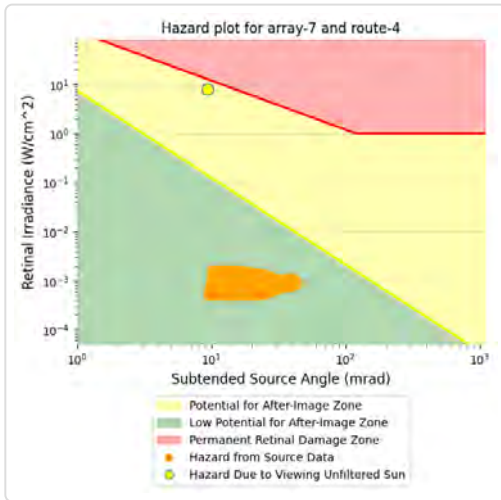
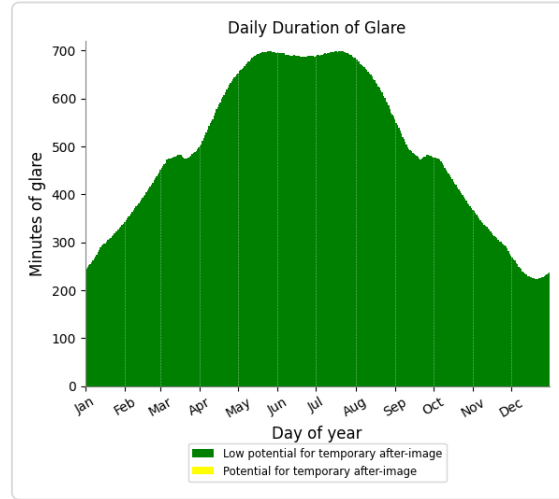
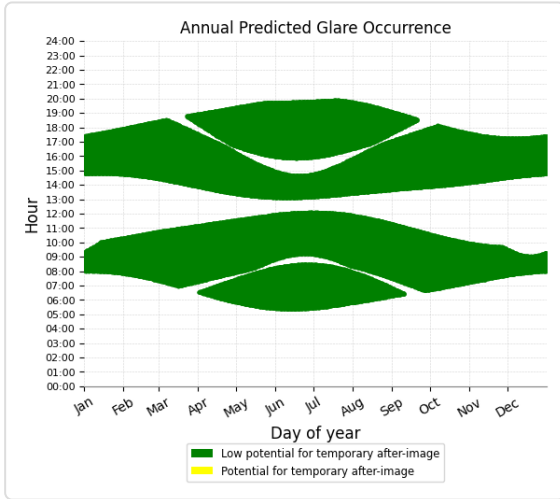
Green glare: 180,815 min.



Array 7 and Route: Route 4

Yellow glare: none

Green glare: 180,712 min.



Array 7 and Route: Route 1

No glare found

Array 7 and Route: Route 11

No glare found

Array 7 and Route: Route 12

No glare found

Array 7 and Route: Route 2

No glare found

Array 7 and Route: Route 3

No glare found

Array 7 and Route: Route 5

No glare found

Array 7 and Route: Route 6

No glare found

Array 7 and Route: Route 7

No glare found

Array 7 and Route: Route 8

No glare found

Array 7 and Route: Route 9

No glare found

PV: Array 8 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 8 and Route: Route 1

No glare found

Array 8 and Route: Route 10

No glare found

Array 8 and Route: Route 11

No glare found

Array 8 and Route: Route 12

No glare found

Array 8 and Route: Route 2

No glare found

Array 8 and Route: Route 3

No glare found

Array 8 and Route: Route 4

No glare found

Array 8 and Route: Route 5

No glare found

Array 8 and Route: Route 6

No glare found

Array 8 and Route: Route 7

No glare found

Array 8 and Route: Route 8

No glare found

Array 8 and Route: Route 9

No glare found

PV: Array 9 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 1	0	0.0	0	0.0
Route 10	0	0.0	0	0.0
Route 11	0	0.0	0	0.0
Route 12	0	0.0	0	0.0
Route 2	0	0.0	0	0.0
Route 3	0	0.0	0	0.0
Route 4	0	0.0	0	0.0
Route 5	0	0.0	0	0.0
Route 6	0	0.0	0	0.0
Route 7	0	0.0	0	0.0
Route 8	0	0.0	0	0.0
Route 9	0	0.0	0	0.0

Array 9 and Route: Route 1

No glare found

Array 9 and Route: Route 10

No glare found

Array 9 and Route: Route 11

No glare found

Array 9 and Route: Route 12

No glare found

Array 9 and Route: Route 2

No glare found

Array 9 and Route: Route 3

No glare found

Array 9 and Route: Route 4

No glare found

Array 9 and Route: Route 5

No glare found

Array 9 and Route: Route 6

No glare found

Array 9 and Route: Route 7

No glare found

Array 9 and Route: Route 8

No glare found

Array 9 and Route: Route 9

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

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.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

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.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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