



Site Configuration: parcels w set backs

Project site configuration details and results.



Created **May 29, 2020 4:23 p.m.**
 Updated **May 29, 2020 7:06 p.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39670.7231

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	0	0	-

Component Data

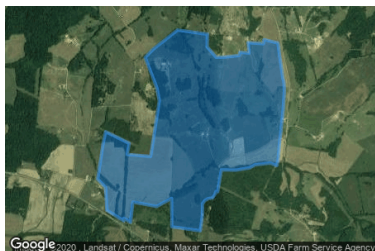
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.900527	-85.705513	841.61	0.00	841.61
2	36.901188	-85.705445	844.47	0.00	844.47
3	36.901767	-85.705368	845.95	0.00	845.95
4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 20,062,372 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706345	882.12	0.00	882.12
7	36.903823	-85.706431	881.55	0.00	881.55
8	36.904218	-85.706506	888.36	0.00	888.36
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906785	-85.706949	903.22	0.00	903.22
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.898607	-85.706108	834.53	10.00	844.53

PV Array Results

Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	0	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor

PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

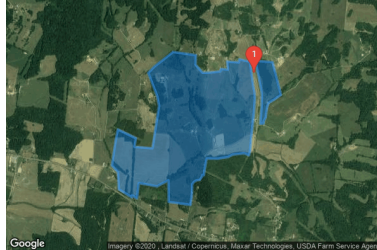
Assumptions

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



Site Configuration: parcels w set backs

Project site configuration details and results.



Created **May 29, 2020 4:23 p.m.**
 Updated **May 29, 2020 7:09 p.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39670.7231

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	2,017	0	-

Component Data

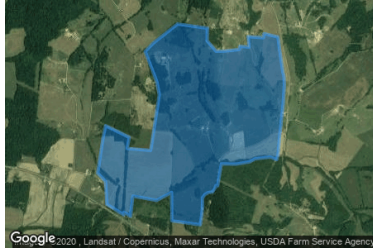
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
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4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 20,062,372 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706345	882.12	0.00	882.12
7	36.903823	-85.706431	881.55	0.00	881.55
8	36.904218	-85.706506	888.36	0.00	888.36
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906785	-85.706949	903.22	0.00	903.22
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.905534	-85.706364	897.15	10.00	907.15

PV Array Results

Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	2,017	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor

PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 low potential for temporary after-image

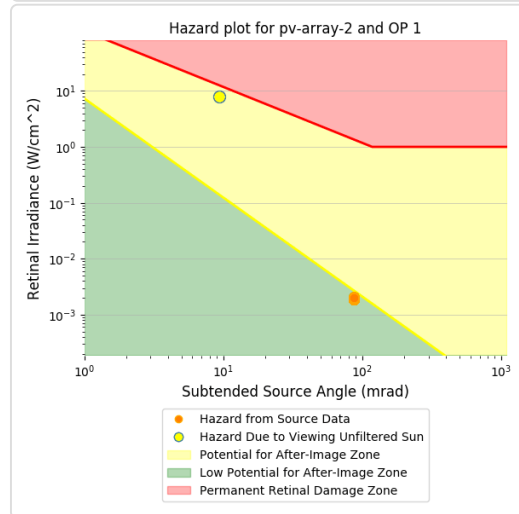
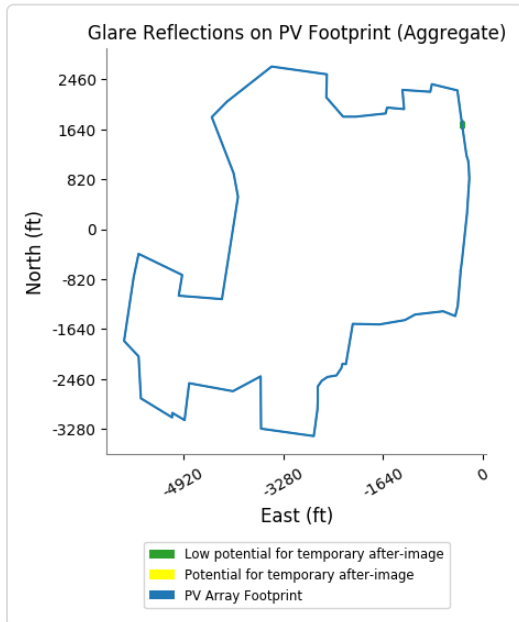
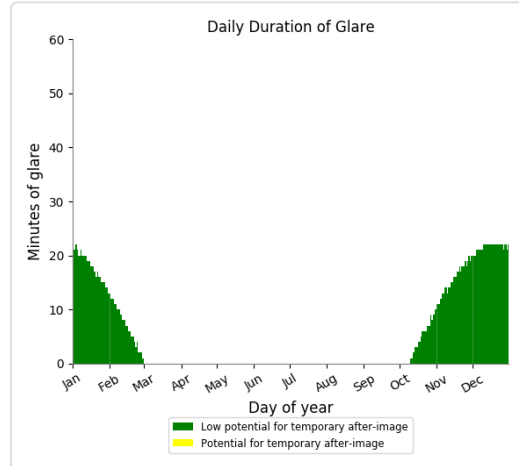
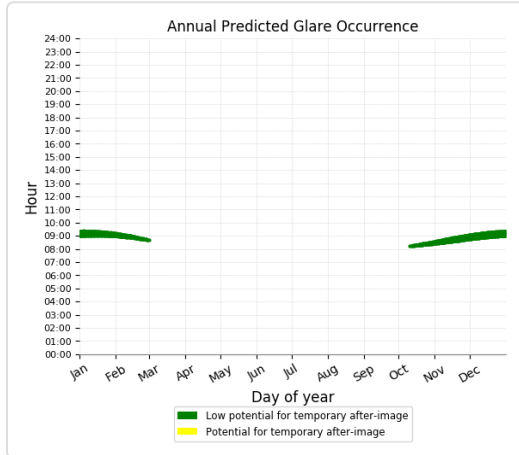


Component	Green glare (min)	Yellow glare (min)
OP: OP 1	2017	0

PV array 2 - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

- 2,017 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



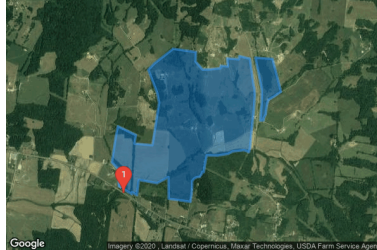
Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
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- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
- Glare analysis methods used: OP V1, FP V1, Route V1
- Refer to the **Help page** for assumptions and limitations not listed here.



Site Configuration: parcels w set backs-temp-1

Project site configuration details and results.



Created **May 29, 2020 7:11 p.m.**
 Updated **May 29, 2020 7:12 p.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39674.7231

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	0	0	-

Component Data

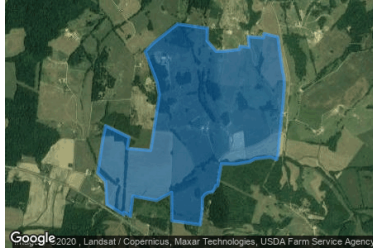
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.900527	-85.705513	841.61	0.00	841.61
2	36.901188	-85.705445	844.47	0.00	844.47
3	36.901767	-85.705368	845.95	0.00	845.95
4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 20,062,372 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706345	882.12	0.00	882.12
7	36.903823	-85.706431	881.55	0.00	881.55
8	36.904218	-85.706506	888.36	0.00	888.36
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906785	-85.706949	903.22	0.00	903.22
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.892124	-85.724009	806.54	10.00	816.54

PV Array Results


Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	0	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor


PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

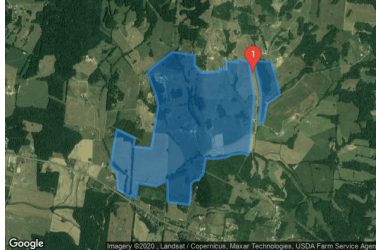
Assumptions

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



Site Configuration: parcels w 100 ft set backs-temp-7

Project site configuration details and results.



Created **June 1, 2020 12:13 p.m.**
 Updated **June 1, 2020 12:15 p.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39717.7231

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

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	927	0	-

Component Data

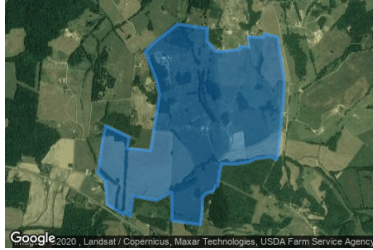
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.900527	-85.705513	841.61	0.00	841.61
2	36.901188	-85.705445	844.47	0.00	844.47
3	36.901767	-85.705368	845.95	0.00	845.95
4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad
Approx. area: 20,064,545 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706351	882.12	0.00	882.12
7	36.903827	-85.706404	882.09	0.00	882.09
8	36.904224	-85.706485	888.95	0.00	888.95
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906783	-85.706962	903.30	0.00	903.30
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.905552	-85.706326	897.02	10.00	907.02

PV Array Results

Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	927	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor

PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 low potential for temporary after-image

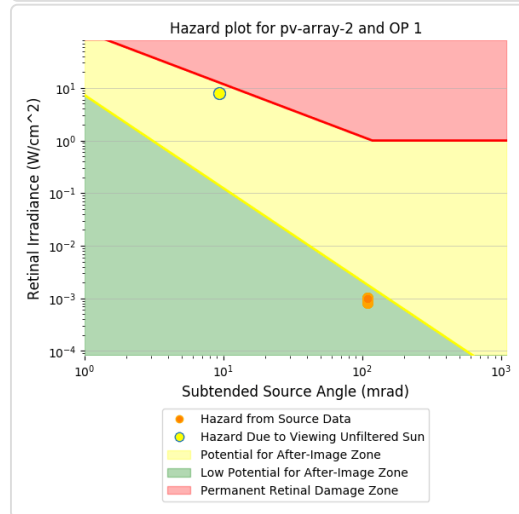
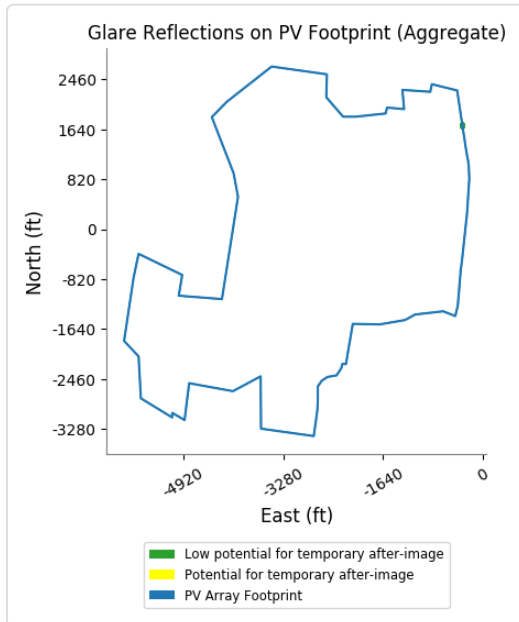
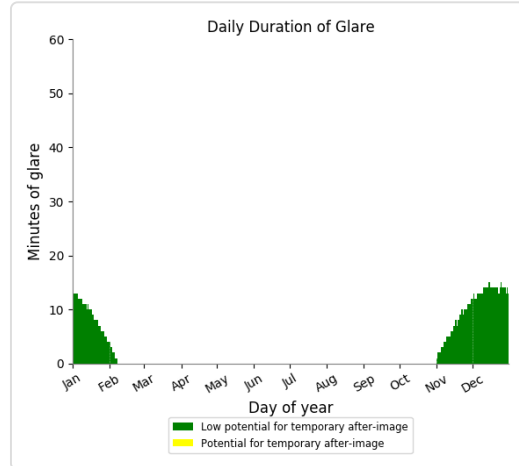
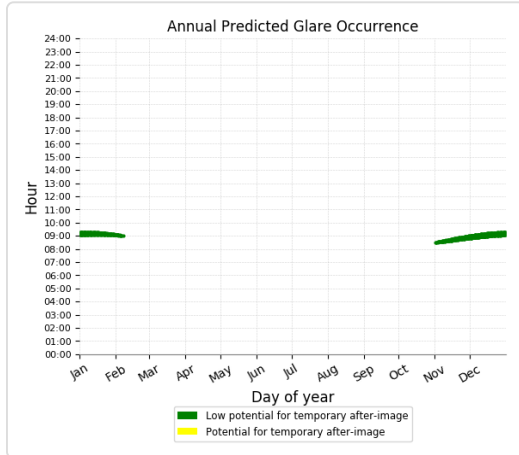


Component	Green glare (min)	Yellow glare (min)
OP: OP 1	927	0

PV array 2 - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

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



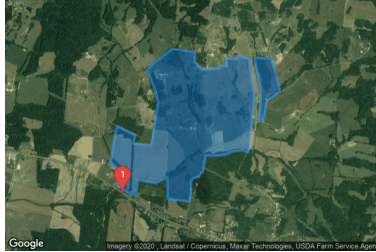
Assumptions

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



Site Configuration: parcels w set backs-temp-2

Project site configuration details and results.



Created **June 1, 2020 9:54 a.m.**
 Updated **June 1, 2020 9:55 a.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39710.7231

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	0	0	-

Component Data

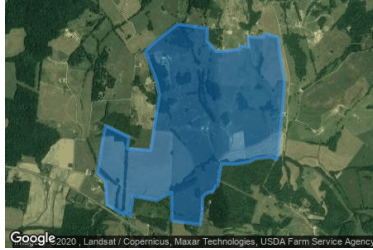
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900527	-85.705513	841.61	0.00	841.61
2	36.901188	-85.705445	844.47	0.00	844.47
3	36.901767	-85.705368	845.95	0.00	845.95
4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 20,062,372 sq-ft



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706345	882.12	0.00	882.12
7	36.903823	-85.706431	881.55	0.00	881.55
8	36.904218	-85.706506	888.36	0.00	888.36
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906785	-85.706949	903.22	0.00	903.22
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.892124	-85.724009	806.54	10.00	816.54

PV Array Results

Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	0	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor

PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

Assumptions

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



Site Configuration: parcels w set backs-temp-2

Project site configuration details and results.



Created **June 1, 2020 9:50 a.m.**
 Updated **June 1, 2020 9:51 a.m.**
 DNI **varies** and peaks at **1,000.0 W/m²**
 Analyze every **1 minute(s)**
0.5 ocular transmission coefficient
0.002 m pupil diameter
0.017 m eye focal length
9.3 mrad sun subtended angle
 Timezone **UTC-6**
 Site Configuration ID: 39709.7231

Summary of Results No glare predicted!

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
PV array 1	SA tracking	SA tracking	0	0	-
PV array 2	SA tracking	SA tracking	0	0	-

Component Data

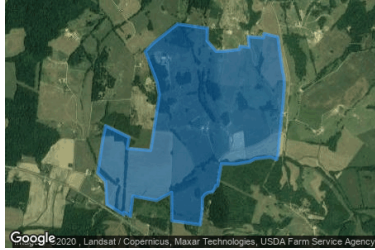
PV Array(s)

Name: PV array 1
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 8.43 mrad
Approx. area: 1,243,447 sq-ft



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	ft	ft	ft
1	36.900527	-85.705513	841.61	0.00	841.61
2	36.901188	-85.705445	844.47	0.00	844.47
3	36.901767	-85.705368	845.95	0.00	845.95
4	36.902684	-85.705352	867.48	0.00	867.48
5	36.903270	-85.705345	880.63	0.00	880.63
6	36.903686	-85.705417	894.15	0.00	894.15
7	36.905290	-85.705796	893.92	0.00	893.92
8	36.906076	-85.706002	904.70	0.00	904.70
9	36.906903	-85.706206	890.12	0.00	890.12
10	36.906757	-85.703888	898.40	0.00	898.40
11	36.904012	-85.702998	877.81	0.00	877.81
12	36.903180	-85.702751	867.39	0.00	867.39
13	36.902622	-85.703770	857.55	0.00	857.55
14	36.902373	-85.704307	856.14	0.00	856.14
15	36.902236	-85.704446	854.51	0.00	854.51
16	36.902004	-85.704564	851.89	0.00	851.89
17	36.901627	-85.704650	849.43	0.00	849.43
18	36.901181	-85.704758	848.32	0.00	848.32
19	36.900769	-85.704790	844.52	0.00	844.52
20	36.900316	-85.705082	840.67	0.00	840.67
21	36.900163	-85.705077	840.56	0.00	840.56
22	36.900083	-85.705103	840.72	0.00	840.72
23	36.900068	-85.705188	840.43	0.00	840.43
24	36.900060	-85.705554	838.10	0.00	838.10

Name: PV array 2
Axis tracking: Single-axis rotation
Tracking axis orientation: 180.0 deg
Tracking axis tilt: 0.0 deg
Tracking axis panel offset: 0.0 deg
Maximum tracking angle: 60.0 deg
Resting angle: 60.0 deg
Rated power: -
Panel material: Smooth glass without AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 6.55 mrad
Approx. area: 20,062,372 sq-ft



Vertex	Latitude deg	Longitude deg	Ground elevation ft	Height above ground ft	Total elevation ft
1	36.898667	-85.706764	831.33	0.00	831.33
2	36.899139	-85.706689	835.59	0.00	835.59
3	36.901232	-85.706410	850.73	0.00	850.73
4	36.902811	-85.706281	868.94	0.00	868.94
5	36.903360	-85.706313	880.57	0.00	880.57
6	36.903617	-85.706345	882.12	0.00	882.12
7	36.903823	-85.706431	881.55	0.00	881.55
8	36.904218	-85.706506	888.36	0.00	888.36
9	36.905910	-85.706801	907.20	0.00	907.20
10	36.906785	-85.706949	903.22	0.00	903.22
11	36.907066	-85.708384	897.52	0.00	897.52
12	36.906723	-85.708470	895.18	0.00	895.18
13	36.906809	-85.710036	884.61	0.00	884.61
14	36.905942	-85.709940	881.09	0.00	881.09
15	36.906011	-85.710894	900.23	0.00	900.23
16	36.905745	-85.710980	900.96	0.00	900.96
17	36.905599	-85.712665	891.71	0.00	891.71
18	36.905599	-85.713362	881.23	0.00	881.23
19	36.906474	-85.714306	877.81	0.00	877.81
20	36.907512	-85.714274	904.98	0.00	904.98
21	36.907864	-85.717375	894.17	0.00	894.17
22	36.906277	-85.719885	942.95	0.00	942.95
23	36.905582	-85.720733	921.84	0.00	921.84
24	36.903051	-85.719510	882.57	0.00	882.57
25	36.901987	-85.719263	865.50	0.00	865.50
26	36.897371	-85.720164	841.16	0.00	841.16
27	36.897526	-85.722589	830.87	0.00	830.87
28	36.898461	-85.722396	852.67	0.00	852.67
29	36.899413	-85.724842	841.30	0.00	841.30
30	36.898349	-85.725121	829.55	0.00	829.55
31	36.895484	-85.725657	823.49	0.00	823.49
32	36.894789	-85.724842	830.54	0.00	830.54
33	36.892895	-85.724714	799.45	0.00	799.45
34	36.892697	-85.724311	798.44	0.00	798.44
35	36.892032	-85.722959	799.73	0.00	799.73
36	36.892238	-85.722949	799.47	0.00	799.47
37	36.891912	-85.722262	805.34	0.00	805.34
38	36.893577	-85.722005	801.12	0.00	801.12
39	36.893216	-85.719548	804.20	0.00	804.20
40	36.893886	-85.717992	836.38	0.00	836.38
41	36.891526	-85.717971	863.39	0.00	863.39
42	36.891191	-85.715009	868.30	0.00	868.30
43	36.891818	-85.714902	855.28	0.00	855.28
44	36.892384	-85.714806	862.63	0.00	862.63
45	36.892787	-85.714784	861.80	0.00	861.80
46	36.893431	-85.714784	855.61	0.00	855.61
47	36.893688	-85.714559	851.86	0.00	851.86
48	36.893860	-85.714237	847.08	0.00	847.08
49	36.893929	-85.713733	845.93	0.00	845.93
50	36.894255	-85.713464	844.83	0.00	844.83
51	36.894452	-85.713400	839.62	0.00	839.62
52	36.894435	-85.713207	860.47	0.00	860.47
53	36.896254	-85.712821	830.76	0.00	830.76
54	36.896228	-85.711319	898.96	0.00	898.96
55	36.896425	-85.709892	878.92	0.00	878.92
56	36.896674	-85.709323	864.95	0.00	864.95
57	36.896820	-85.707746	840.15	0.00	840.15


58	36.896606	-85.707070	840.50	0.00	840.50
59	36.897060	-85.706931	827.07	0.00	827.07

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	ft	ft	ft
OP 1	36.898607	-85.706110	834.53	10.00	844.53

PV Array Results

Summary of PV Glare Analysis PV configuration and predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File 
	deg	deg	min	min	kWh	
PV array 1	SA tracking	SA tracking	0	0	-	-
PV array 2	SA tracking	SA tracking	0	0	-	-

Click the name of the PV array to scroll to its results

PV & Receptor Analysis Results detailed results for each PV array and receptor

PV array 1 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

PV array 2 no glare found



Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0

No glare found

Assumptions

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