Name: B03
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.907451	-74.348395	487.23	4.92	492.15
2	42.905866	-74.343762	572.82	4.92	577.74
3	42.903315	-74.345043	626.94	4.92	631.86
4	42.904464	-74.348402	532.45	4.92	537.37

Name: B04
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905866	-74.343762	572.82	4.92	577.74
2	42.905825	-74.342063	605.34	4.92	610.26
3	42.904452	-74.338051	709.93	4.92	714.85
4	42.902324	-74.339402	693.04	4.92	697.96
5	42.904116	-74.344641	611.77	4.92	616.69

Name: B05
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.908767	-74.347126	451.87	4.92	456.79
2	42.909367	-74.342054	527.15	4.92	532.07
3	42.905825	-74.342063	605.34	4.92	610.26
4	42.905866	-74.343762	572.82	4.92	577.74
5	42.907018	-74.347130	493.21	4.92	498.13

Name: B06
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909367	-74.342054	527.15	4.92	532.07
2	42.907587	-74.336851	562.27	4.92	567.19
3	42.906426	-74.336854	617.95	4.92	622.87
4	42.906359	-74.342062	578.70	4.92	583.62

Name: B07
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.914133	-74.342042	422.30	4.92	427.22
2	42.914429	-74.339664	433.96	4.92	438.88
3	42.913731	-74.337624	472.61	4.92	477.53
4	42.908411	-74.337638	540.06	4.92	544.98
5	42.909922	-74.342053	526.46	4.92	531.38

Name: B08
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913172	-74.337626	468.28	4.92	473.20
2	42.911956	-74.334072	478.53	4.92	483.45
3	42.909669	-74.334078	525.76	4.92	530.68
4	42.908124	-74.335632	552.97	4.92	557.89
5	42.908810	-74.337637	535.31	4.92	540.23

Name: B09
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913932	-74.337624	472.14	4.92	477.06
2	42.915549	-74.335001	450.81	4.92	455.73
3	42.914143	-74.330892	444.99	4.92	449.91
4	42.911864	-74.333804	478.06	4.92	482.98
5	42.913172	-74.337626	468.28	4.92	473.20

Name: B10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.901857	-74.339043	690.68	4.92	695.60
2	42.905043	-74.336981	697.89	4.92	702.81
3	42.905164	-74.333828	689.79	4.92	694.71
4	42.901324	-74.336313	687.62	4.92	692.54

Name: B11
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905164	-74.333828	689.79	4.92	694.71
2	42.903926	-74.327488	580.96	4.92	585.88
3	42.902886	-74.332554	630.95	4.92	635.87
4	42.903362	-74.334994	664.53	4.92	669.45

Name: B12
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909207	-74.333900	537.63	4.92	542.55
2	42.910828	-74.331323	483.96	4.92	488.88
3	42.910239	-74.328306	509.74	4.92	514.66
4	42.906091	-74.330991	629.15	4.92	634.07
5	42.906945	-74.335363	605.87	4.92	610.79

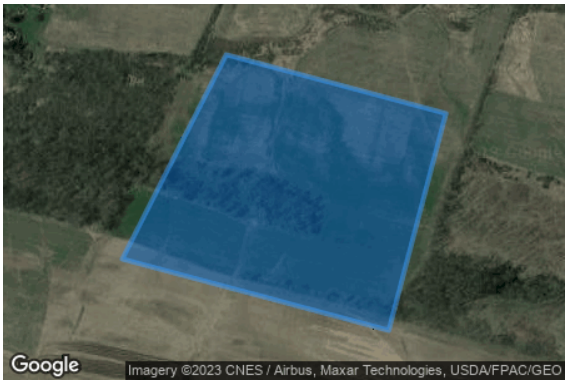
Name: B13
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.910239	-74.328306	509.74	4.92	514.66
2	42.909388	-74.323951	539.15	4.92	544.07
3	42.903926	-74.327488	580.96	4.92	585.88
4	42.904776	-74.331843	660.44	4.92	665.36

Name: B14
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909388	-74.323951	539.15	4.92	544.07
2	42.908024	-74.316964	503.40	4.92	508.32
3	42.906493	-74.316969	520.63	4.92	525.55
4	42.905961	-74.321336	539.83	4.92	544.75
5	42.906799	-74.325627	581.15	4.92	586.07

Name: B15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.912294	-74.323921	418.13	4.92	423.05
2	42.911556	-74.320145	425.14	4.92	430.06
3	42.908837	-74.321128	548.68	4.92	553.60
4	42.909731	-74.325708	532.17	4.92	537.09

Name: B16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.921593	-74.338482	451.16	4.92	456.08
2	42.922849	-74.333088	400.69	4.92	405.61
3	42.920275	-74.333095	433.11	4.92	438.03
4	42.919465	-74.336576	453.81	4.92	458.73

Name: B17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.923191	-74.331617	414.64	4.92	419.56
2	42.923894	-74.328594	351.19	4.92	356.11
3	42.921995	-74.328599	413.82	4.92	418.74
4	42.921470	-74.329119	419.76	4.92	424.68
5	42.920887	-74.331624	423.39	4.92	428.31

Name: B18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.926575	-74.326332	319.35	4.92	324.27
2	42.927277	-74.324523	308.36	4.92	313.28
3	42.923762	-74.324533	313.76	4.92	318.68
4	42.923766	-74.327094	338.23	4.92	343.15
5	42.924947	-74.327091	329.07	4.92	333.99

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 281	281	42.922442	-74.321124	418.36	16.00
OP 282	282	42.922390	-74.319890	419.29	16.00
OP 283	283	42.920732	-74.318352	419.75	16.00
OP 284	284	42.928116	-74.316630	326.81	16.00
OP 285	285	42.928378	-74.316708	323.00	16.00
OP 286	286	42.928521	-74.316503	323.92	16.00
OP 287	287	42.928708	-74.316465	323.27	16.00
OP 288	288	42.928376	-74.316012	325.92	16.00
OP 289	289	42.928797	-74.316064	325.21	16.00
OP 290	290	42.929073	-74.316363	322.92	16.00
OP 291	291	42.929258	-74.316340	322.14	16.00
OP 292	292	42.929297	-74.315936	322.98	16.00
OP 293	293	42.929239	-74.315379	323.24	16.00
OP 294	294	42.929609	-74.315718	323.58	16.00
OP 295	295	42.928970	-74.317836	297.21	16.00
OP 296	296	42.930339	-74.318821	293.85	16.00
OP 297	297	42.930270	-74.319054	292.21	16.00
OP 298	298	42.932417	-74.324455	323.93	16.00
OP 299	299	42.932606	-74.324955	319.08	16.00
OP 300	300	42.932833	-74.326272	318.83	16.00
OP 301	301	42.933241	-74.326662	313.67	16.00
OP 302	302	42.927514	-74.326043	323.50	16.00
OP 303	303	42.919632	-74.333646	445.90	16.00
OP 304	304	42.919110	-74.334320	444.05	16.00
OP 305	305	42.918891	-74.338185	464.38	16.00
OP 306	306	42.918715	-74.338885	469.68	16.00
OP 307	307	42.917642	-74.342287	470.17	16.00
OP 308	308	42.917387	-74.343269	465.78	16.00
OP 309	309	42.916399	-74.341645	439.85	16.00
OP 310	310	42.917447	-74.344626	477.66	16.00
OP 311	311	42.916374	-74.344512	468.18	16.00
OP 312	312	42.916617	-74.345289	473.73	16.00

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
B01	SA tracking	SA tracking	0	0.0	0	0.0	-
B02	SA tracking	SA tracking	0	0.0	0	0.0	-
B03	SA tracking	SA tracking	0	0.0	0	0.0	-
B04	SA tracking	SA tracking	0	0.0	0	0.0	-
B05	SA tracking	SA tracking	0	0.0	0	0.0	-
B06	SA tracking	SA tracking	0	0.0	0	0.0	-
B07	SA tracking	SA tracking	0	0.0	0	0.0	-
B08	SA tracking	SA tracking	0	0.0	0	0.0	-
B09	SA tracking	SA tracking	0	0.0	0	0.0	-
B10	SA tracking	SA tracking	0	0.0	0	0.0	-
B11	SA tracking	SA tracking	0	0.0	0	0.0	-
B12	SA tracking	SA tracking	0	0.0	0	0.0	-
B13	SA tracking	SA tracking	0	0.0	0	0.0	-
B14	SA tracking	SA tracking	0	0.0	0	0.0	-
B15	SA tracking	SA tracking	0	0.0	0	0.0	-
B16	SA tracking	SA tracking	0	0.0	0	0.0	-
B17	SA tracking	SA tracking	0	0.0	0	0.0	-
B18	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 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

PV: B01 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B01 and OP 281

No glare found

B01 and OP 282

No glare found

B01 and OP 283

No glare found

B01 and OP 284

No glare found

B01 and OP 285

No glare found

B01 and OP 286

No glare found

B01 and OP 287

No glare found

B01 and OP 288

No glare found

B01 and OP 289

No glare found

B01 and OP 290

No glare found

B01 and OP 291

No glare found

B01 and OP 292

No glare found

B01 and OP 293

No glare found

B01 and OP 294

No glare found

B01 and OP 295

No glare found

B01 and OP 296

No glare found

B01 and OP 297

No glare found

B01 and OP 298

No glare found

B01 and OP 299

No glare found

B01 and OP 300

No glare found

B01 and OP 301

No glare found

B01 and OP 302

No glare found

B01 and OP 303

No glare found

B01 and OP 304

No glare found

B01 and OP 305

No glare found

B01 and OP 306

No glare found

B01 and OP 307

No glare found

B01 and OP 308

No glare found

B01 and OP 309

No glare found

B01 and OP 310

No glare found

B01 and OP 311

No glare found

B01 and OP 312

No glare found

PV: B02 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B02 and OP 281

No glare found

B02 and OP 282

No glare found

B02 and OP 283

No glare found

B02 and OP 284

No glare found

B02 and OP 285

No glare found

B02 and OP 286

No glare found

B02 and OP 287

No glare found

B02 and OP 288

No glare found

B02 and OP 289

No glare found

B02 and OP 290

No glare found

B02 and OP 291

No glare found

B02 and OP 292

No glare found

B02 and OP 293

No glare found

B02 and OP 294

No glare found

B02 and OP 295

No glare found

B02 and OP 296

No glare found

B02 and OP 297

No glare found

B02 and OP 298

No glare found

B02 and OP 299

No glare found

B02 and OP 300

No glare found

B02 and OP 301

No glare found

B02 and OP 302

No glare found

B02 and OP 303

No glare found

B02 and OP 304

No glare found

B02 and OP 305

No glare found

B02 and OP 306

No glare found

B02 and OP 307

No glare found

B02 and OP 308

No glare found

B02 and OP 309

No glare found

B02 and OP 310

No glare found

B02 and OP 311

No glare found

B02 and OP 312

No glare found

PV: B03 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B03 and OP 281

No glare found

B03 and OP 282

No glare found

B03 and OP 283

No glare found

B03 and OP 284

No glare found

B03 and OP 285

No glare found

B03 and OP 286

No glare found

B03 and OP 287

No glare found

B03 and OP 288

No glare found

B03 and OP 289

No glare found

B03 and OP 290

No glare found

B03 and OP 291

No glare found

B03 and OP 292

No glare found

B03 and OP 293

No glare found

B03 and OP 294

No glare found

B03 and OP 295

No glare found

B03 and OP 296

No glare found

B03 and OP 297

No glare found

B03 and OP 298

No glare found

B03 and OP 299

No glare found

B03 and OP 300

No glare found

B03 and OP 301

No glare found

B03 and OP 302

No glare found

B03 and OP 303

No glare found

B03 and OP 304

No glare found

B03 and OP 305

No glare found

B03 and OP 306

No glare found

B03 and OP 307

No glare found

B03 and OP 308

No glare found

B03 and OP 309

No glare found

B03 and OP 310

No glare found

B03 and OP 311

No glare found

B03 and OP 312

No glare found

PV: B04 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B04 and OP 281

No glare found

B04 and OP 282

No glare found

B04 and OP 283

No glare found

B04 and OP 284

No glare found

B04 and OP 285

No glare found

B04 and OP 286

No glare found

B04 and OP 287

No glare found

B04 and OP 288

No glare found

B04 and OP 289

No glare found

B04 and OP 290

No glare found

B04 and OP 291

No glare found

B04 and OP 292

No glare found

B04 and OP 293

No glare found

B04 and OP 294

No glare found

B04 and OP 295

No glare found

B04 and OP 296

No glare found

B04 and OP 297

No glare found

B04 and OP 298

No glare found

B04 and OP 299

No glare found

B04 and OP 300

No glare found

B04 and OP 301

No glare found

B04 and OP 302

No glare found

B04 and OP 303

No glare found

B04 and OP 304

No glare found

B04 and OP 305

No glare found

B04 and OP 306

No glare found

B04 and OP 307

No glare found

B04 and OP 308

No glare found

B04 and OP 309

No glare found

B04 and OP 310

No glare found

B04 and OP 311

No glare found

B04 and OP 312

No glare found

PV: B05 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B05 and OP 281

No glare found

B05 and OP 282

No glare found

B05 and OP 283

No glare found

B05 and OP 284

No glare found

B05 and OP 285

No glare found

B05 and OP 286

No glare found

B05 and OP 287

No glare found

B05 and OP 288

No glare found

B05 and OP 289

No glare found

B05 and OP 290

No glare found

B05 and OP 291

No glare found

B05 and OP 292

No glare found

B05 and OP 293

No glare found

B05 and OP 294

No glare found

B05 and OP 295

No glare found

B05 and OP 296

No glare found

B05 and OP 297

No glare found

B05 and OP 298

No glare found

B05 and OP 299

No glare found

B05 and OP 300

No glare found

B05 and OP 301

No glare found

B05 and OP 302

No glare found

B05 and OP 303

No glare found

B05 and OP 304

No glare found

B05 and OP 305

No glare found

B05 and OP 306

No glare found

B05 and OP 307

No glare found

B05 and OP 308

No glare found

B05 and OP 309

No glare found

B05 and OP 310

No glare found

B05 and OP 311

No glare found

B05 and OP 312

No glare found

PV: B06 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B06 and OP 281

No glare found

B06 and OP 282

No glare found

B06 and OP 283

No glare found

B06 and OP 284

No glare found

B06 and OP 285

No glare found

B06 and OP 286

No glare found

B06 and OP 287

No glare found

B06 and OP 288

No glare found

B06 and OP 289

No glare found

B06 and OP 290

No glare found

B06 and OP 291

No glare found

B06 and OP 292

No glare found

B06 and OP 293

No glare found

B06 and OP 294

No glare found

B06 and OP 295

No glare found

B06 and OP 296

No glare found

B06 and OP 297

No glare found

B06 and OP 298

No glare found

B06 and OP 299

No glare found

B06 and OP 300

No glare found

B06 and OP 301

No glare found

B06 and OP 302

No glare found

B06 and OP 303

No glare found

B06 and OP 304

No glare found

B06 and OP 305

No glare found

B06 and OP 306

No glare found

B06 and OP 307

No glare found

B06 and OP 308

No glare found

B06 and OP 309

No glare found

B06 and OP 310

No glare found

B06 and OP 311

No glare found

B06 and OP 312

No glare found

PV: B07 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B07 and OP 281

No glare found

B07 and OP 282

No glare found

B07 and OP 283

No glare found

B07 and OP 284

No glare found

B07 and OP 285

No glare found

B07 and OP 286

No glare found

B07 and OP 287

No glare found

B07 and OP 288

No glare found

B07 and OP 289

No glare found

B07 and OP 290

No glare found

B07 and OP 291

No glare found

B07 and OP 292

No glare found

B07 and OP 293

No glare found

B07 and OP 294

No glare found

B07 and OP 295

No glare found

B07 and OP 296

No glare found

B07 and OP 297

No glare found

B07 and OP 298

No glare found

B07 and OP 299

No glare found

B07 and OP 300

No glare found

B07 and OP 301

No glare found

B07 and OP 302

No glare found

B07 and OP 303

No glare found

B07 and OP 304

No glare found

B07 and OP 305

No glare found

B07 and OP 306

No glare found

B07 and OP 307

No glare found

B07 and OP 308

No glare found

B07 and OP 309

No glare found

B07 and OP 310

No glare found

B07 and OP 311

No glare found

B07 and OP 312

No glare found

PV: B08 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B08 and OP 281

No glare found

B08 and OP 282

No glare found

B08 and OP 283

No glare found

B08 and OP 284

No glare found

B08 and OP 285

No glare found

B08 and OP 286

No glare found

B08 and OP 287

No glare found

B08 and OP 288

No glare found

B08 and OP 289

No glare found

B08 and OP 290

No glare found

B08 and OP 291

No glare found

B08 and OP 292

No glare found

B08 and OP 293

No glare found

B08 and OP 294

No glare found

B08 and OP 295

No glare found

B08 and OP 296

No glare found

B08 and OP 297

No glare found

B08 and OP 298

No glare found

B08 and OP 299

No glare found

B08 and OP 300

No glare found

B08 and OP 301

No glare found

B08 and OP 302

No glare found

B08 and OP 303

No glare found

B08 and OP 304

No glare found

B08 and OP 305

No glare found

B08 and OP 306

No glare found

B08 and OP 307

No glare found

B08 and OP 308

No glare found

B08 and OP 309

No glare found

B08 and OP 310

No glare found

B08 and OP 311

No glare found

B08 and OP 312

No glare found

PV: B09 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B09 and OP 281

No glare found

B09 and OP 282

No glare found

B09 and OP 283

No glare found

B09 and OP 284

No glare found

B09 and OP 285

No glare found

B09 and OP 286

No glare found

B09 and OP 287

No glare found

B09 and OP 288

No glare found

B09 and OP 289

No glare found

B09 and OP 290

No glare found

B09 and OP 291

No glare found

B09 and OP 292

No glare found

B09 and OP 293

No glare found

B09 and OP 294

No glare found

B09 and OP 295

No glare found

B09 and OP 296

No glare found

B09 and OP 297

No glare found

B09 and OP 298

No glare found

B09 and OP 299

No glare found

B09 and OP 300

No glare found

B09 and OP 301

No glare found

B09 and OP 302

No glare found

B09 and OP 303

No glare found

B09 and OP 304

No glare found

B09 and OP 305

No glare found

B09 and OP 306

No glare found

B09 and OP 307

No glare found

B09 and OP 308

No glare found

B09 and OP 309

No glare found

B09 and OP 310

No glare found

B09 and OP 311

No glare found

B09 and OP 312

No glare found

PV: B10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B10 and OP 281

No glare found

B10 and OP 282

No glare found

B10 and OP 283

No glare found

B10 and OP 284

No glare found

B10 and OP 285

No glare found

B10 and OP 286

No glare found

B10 and OP 287

No glare found

B10 and OP 288

No glare found

B10 and OP 289

No glare found

B10 and OP 290

No glare found

B10 and OP 291

No glare found

B10 and OP 292

No glare found

B10 and OP 293

No glare found

B10 and OP 294

No glare found

B10 and OP 295

No glare found

B10 and OP 296

No glare found

B10 and OP 297

No glare found

B10 and OP 298

No glare found

B10 and OP 299

No glare found

B10 and OP 300

No glare found

B10 and OP 301

No glare found

B10 and OP 302

No glare found

B10 and OP 303

No glare found

B10 and OP 304

No glare found

B10 and OP 305

No glare found

B10 and OP 306

No glare found

B10 and OP 307

No glare found

B10 and OP 308

No glare found

B10 and OP 309

No glare found

B10 and OP 310

No glare found

B10 and OP 311

No glare found

B10 and OP 312

No glare found

PV: B11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B11 and OP 281

No glare found

B11 and OP 282

No glare found

B11 and OP 283

No glare found

B11 and OP 284

No glare found

B11 and OP 285

No glare found

B11 and OP 286

No glare found

B11 and OP 287

No glare found

B11 and OP 288

No glare found

B11 and OP 289

No glare found

B11 and OP 290

No glare found

B11 and OP 291

No glare found

B11 and OP 292

No glare found

B11 and OP 293

No glare found

B11 and OP 294

No glare found

B11 and OP 295

No glare found

B11 and OP 296

No glare found

B11 and OP 297

No glare found

B11 and OP 298

No glare found

B11 and OP 299

No glare found

B11 and OP 300

No glare found

B11 and OP 301

No glare found

B11 and OP 302

No glare found

B11 and OP 303

No glare found

B11 and OP 304

No glare found

B11 and OP 305

No glare found

B11 and OP 306

No glare found

B11 and OP 307

No glare found

B11 and OP 308

No glare found

B11 and OP 309

No glare found

B11 and OP 310

No glare found

B11 and OP 311

No glare found

B11 and OP 312

No glare found

PV: B12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B12 and OP 281

No glare found

B12 and OP 282

No glare found

B12 and OP 283

No glare found

B12 and OP 284

No glare found

B12 and OP 285

No glare found

B12 and OP 286

No glare found

B12 and OP 287

No glare found

B12 and OP 288

No glare found

B12 and OP 289

No glare found

B12 and OP 290

No glare found

B12 and OP 291

No glare found

B12 and OP 292

No glare found

B12 and OP 293

No glare found

B12 and OP 294

No glare found

B12 and OP 295

No glare found

B12 and OP 296

No glare found

B12 and OP 297

No glare found

B12 and OP 298

No glare found

B12 and OP 299

No glare found

B12 and OP 300

No glare found

B12 and OP 301

No glare found

B12 and OP 302

No glare found

B12 and OP 303

No glare found

B12 and OP 304

No glare found

B12 and OP 305

No glare found

B12 and OP 306

No glare found

B12 and OP 307

No glare found

B12 and OP 308

No glare found

B12 and OP 309

No glare found

B12 and OP 310

No glare found

B12 and OP 311

No glare found

B12 and OP 312

No glare found

PV: B13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B13 and OP 281

No glare found

B13 and OP 282

No glare found

B13 and OP 283

No glare found

B13 and OP 284

No glare found

B13 and OP 285

No glare found

B13 and OP 286

No glare found

B13 and OP 287

No glare found

B13 and OP 288

No glare found

B13 and OP 289

No glare found

B13 and OP 290

No glare found

B13 and OP 291

No glare found

B13 and OP 292

No glare found

B13 and OP 293

No glare found

B13 and OP 294

No glare found

B13 and OP 295

No glare found

B13 and OP 296

No glare found

B13 and OP 297

No glare found

B13 and OP 298

No glare found

B13 and OP 299

No glare found

B13 and OP 300

No glare found

B13 and OP 301

No glare found

B13 and OP 302

No glare found

B13 and OP 303

No glare found

B13 and OP 304

No glare found

B13 and OP 305

No glare found

B13 and OP 306

No glare found

B13 and OP 307

No glare found

B13 and OP 308

No glare found

B13 and OP 309

No glare found

B13 and OP 310

No glare found

B13 and OP 311

No glare found

B13 and OP 312

No glare found

PV: B14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B14 and OP 281

No glare found

B14 and OP 282

No glare found

B14 and OP 283

No glare found

B14 and OP 284

No glare found

B14 and OP 285

No glare found

B14 and OP 286

No glare found

B14 and OP 287

No glare found

B14 and OP 288

No glare found

B14 and OP 289

No glare found

B14 and OP 290

No glare found

B14 and OP 291

No glare found

B14 and OP 292

No glare found

B14 and OP 293

No glare found

B14 and OP 294

No glare found

B14 and OP 295

No glare found

B14 and OP 296

No glare found

B14 and OP 297

No glare found

B14 and OP 298

No glare found

B14 and OP 299

No glare found

B14 and OP 300

No glare found

B14 and OP 301

No glare found

B14 and OP 302

No glare found

B14 and OP 303

No glare found

B14 and OP 304

No glare found

B14 and OP 305

No glare found

B14 and OP 306

No glare found

B14 and OP 307

No glare found

B14 and OP 308

No glare found

B14 and OP 309

No glare found

B14 and OP 310

No glare found

B14 and OP 311

No glare found

B14 and OP 312

No glare found

PV: B15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B15 and OP 281

No glare found

B15 and OP 282

No glare found

B15 and OP 283

No glare found

B15 and OP 284

No glare found

B15 and OP 285

No glare found

B15 and OP 286

No glare found

B15 and OP 287

No glare found

B15 and OP 288

No glare found

B15 and OP 289

No glare found

B15 and OP 290

No glare found

B15 and OP 291

No glare found

B15 and OP 292

No glare found

B15 and OP 293

No glare found

B15 and OP 294

No glare found

B15 and OP 295

No glare found

B15 and OP 296

No glare found

B15 and OP 297

No glare found

B15 and OP 298

No glare found

B15 and OP 299

No glare found

B15 and OP 300

No glare found

B15 and OP 301

No glare found

B15 and OP 302

No glare found

B15 and OP 303

No glare found

B15 and OP 304

No glare found

B15 and OP 305

No glare found

B15 and OP 306

No glare found

B15 and OP 307

No glare found

B15 and OP 308

No glare found

B15 and OP 309

No glare found

B15 and OP 310

No glare found

B15 and OP 311

No glare found

B15 and OP 312

No glare found

PV: B16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B16 and OP 281

No glare found

B16 and OP 282

No glare found

B16 and OP 283

No glare found

B16 and OP 284

No glare found

B16 and OP 285

No glare found

B16 and OP 286

No glare found

B16 and OP 287

No glare found

B16 and OP 288

No glare found

B16 and OP 289

No glare found

B16 and OP 290

No glare found

B16 and OP 291

No glare found

B16 and OP 292

No glare found

B16 and OP 293

No glare found

B16 and OP 294

No glare found

B16 and OP 295

No glare found

B16 and OP 296

No glare found

B16 and OP 297

No glare found

B16 and OP 298

No glare found

B16 and OP 299

No glare found

B16 and OP 300

No glare found

B16 and OP 301

No glare found

B16 and OP 302

No glare found

B16 and OP 303

No glare found

B16 and OP 304

No glare found

B16 and OP 305

No glare found

B16 and OP 306

No glare found

B16 and OP 307

No glare found

B16 and OP 308

No glare found

B16 and OP 309

No glare found

B16 and OP 310

No glare found

B16 and OP 311

No glare found

B16 and OP 312

No glare found

PV: B17 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B17 and OP 281

No glare found

B17 and OP 282

No glare found

B17 and OP 283

No glare found

B17 and OP 284

No glare found

B17 and OP 285

No glare found

B17 and OP 286

No glare found

B17 and OP 287

No glare found

B17 and OP 288

No glare found

B17 and OP 289

No glare found

B17 and OP 290

No glare found

B17 and OP 291

No glare found

B17 and OP 292

No glare found

B17 and OP 293

No glare found

B17 and OP 294

No glare found

B17 and OP 295

No glare found

B17 and OP 296

No glare found

B17 and OP 297

No glare found

B17 and OP 298

No glare found

B17 and OP 299

No glare found

B17 and OP 300

No glare found

B17 and OP 301

No glare found

B17 and OP 302

No glare found

B17 and OP 303

No glare found

B17 and OP 304

No glare found

B17 and OP 305

No glare found

B17 and OP 306

No glare found

B17 and OP 307

No glare found

B17 and OP 308

No glare found

B17 and OP 309

No glare found

B17 and OP 310

No glare found

B17 and OP 311

No glare found

B17 and OP 312

No glare found

PV: B18 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 281	0	0.0	0	0.0
OP 282	0	0.0	0	0.0
OP 283	0	0.0	0	0.0
OP 284	0	0.0	0	0.0
OP 285	0	0.0	0	0.0
OP 286	0	0.0	0	0.0
OP 287	0	0.0	0	0.0
OP 288	0	0.0	0	0.0
OP 289	0	0.0	0	0.0
OP 290	0	0.0	0	0.0
OP 291	0	0.0	0	0.0
OP 292	0	0.0	0	0.0
OP 293	0	0.0	0	0.0
OP 294	0	0.0	0	0.0
OP 295	0	0.0	0	0.0
OP 296	0	0.0	0	0.0
OP 297	0	0.0	0	0.0
OP 298	0	0.0	0	0.0
OP 299	0	0.0	0	0.0
OP 300	0	0.0	0	0.0
OP 301	0	0.0	0	0.0
OP 302	0	0.0	0	0.0
OP 303	0	0.0	0	0.0
OP 304	0	0.0	0	0.0
OP 305	0	0.0	0	0.0
OP 306	0	0.0	0	0.0
OP 307	0	0.0	0	0.0
OP 308	0	0.0	0	0.0
OP 309	0	0.0	0	0.0
OP 310	0	0.0	0	0.0
OP 311	0	0.0	0	0.0
OP 312	0	0.0	0	0.0

B18 and OP 281

No glare found

B18 and OP 282

No glare found

B18 and OP 283

No glare found

B18 and OP 284

No glare found

B18 and OP 285

No glare found

B18 and OP 286

No glare found

B18 and OP 287

No glare found

B18 and OP 288

No glare found

B18 and OP 289

No glare found

B18 and OP 290

No glare found

B18 and OP 291

No glare found

B18 and OP 292

No glare found

B18 and OP 293

No glare found

B18 and OP 294

No glare found

B18 and OP 295

No glare found

B18 and OP 296

No glare found

B18 and OP 297

No glare found

B18 and OP 298

No glare found

B18 and OP 299

No glare found

B18 and OP 300

No glare found

B18 and OP 301

No glare found

B18 and OP 302

No glare found

B18 and OP 303

No glare found

B18 and OP 304

No glare found

B18 and OP 305

No glare found

B18 and OP 306

No glare found

B18 and OP 307

No glare found

B18 and OP 308

No glare found

B18 and OP 309

No glare found

B18 and OP 310

No glare found

B18 and OP 311

No glare found

B18 and OP 312

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

FORGESOLAR GLARE ANALYSIS

Project: **Mill Point Solar I Project**
Located in Montgomery County, New York

Site configuration: **B - cars**

Client: ConnectGen Montgomery County LLC

Created 03 Aug, 2023
Updated 13 Dec, 2023
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 10 MW to 100 MW
Site ID 96846.16931

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
	°	°	min	hr	min	hr	kWh
B01	SA tracking	SA tracking	0	0.0	0	0.0	-
B02	SA tracking	SA tracking	0	0.0	0	0.0	-
B03	SA tracking	SA tracking	0	0.0	0	0.0	-
B04	SA tracking	SA tracking	0	0.0	0	0.0	-
B05	SA tracking	SA tracking	0	0.0	0	0.0	-
B06	SA tracking	SA tracking	0	0.0	0	0.0	-
B07	SA tracking	SA tracking	0	0.0	0	0.0	-
B08	SA tracking	SA tracking	0	0.0	0	0.0	-
B09	SA tracking	SA tracking	0	0.0	0	0.0	-
B10	SA tracking	SA tracking	0	0.0	0	0.0	-
B11	SA tracking	SA tracking	0	0.0	0	0.0	-
B12	SA tracking	SA tracking	0	0.0	0	0.0	-
B13	SA tracking	SA tracking	0	0.0	0	0.0	-
B14	SA tracking	SA tracking	0	0.0	0	0.0	-
B15	SA tracking	SA tracking	0	0.0	0	0.0	-
B16	SA tracking	SA tracking	0	0.0	0	0.0	-
B17	SA tracking	SA tracking	0	0.0	0	0.0	-
B18	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 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

Component Data

PV Arrays

Name: B01
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.900388	-74.355084	556.68	4.92	561.60
2	42.902424	-74.350121	558.63	4.92	563.55
3	42.901508	-74.348664	596.05	4.92	600.97
4	42.900594	-74.348245	613.20	4.92	618.12
5	42.898498	-74.353356	563.36	4.92	568.28
6	42.898656	-74.353660	564.54	4.92	569.46

Name: B02
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.898498	-74.353356	563.36	4.92	568.28
2	42.900594	-74.348245	613.20	4.92	618.12
3	42.898053	-74.347078	651.73	4.92	656.65
4	42.896893	-74.349905	630.46	4.92	635.38
5	42.897345	-74.351133	613.62	4.92	618.54

Name: B03
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.907451	-74.348395	487.23	4.92	492.15
2	42.905866	-74.343762	572.82	4.92	577.74
3	42.903315	-74.345043	626.94	4.92	631.86
4	42.904464	-74.348402	532.45	4.92	537.37

Name: B04
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905866	-74.343762	572.82	4.92	577.74
2	42.905825	-74.342063	605.34	4.92	610.26
3	42.904452	-74.338051	709.93	4.92	714.85
4	42.902324	-74.339402	693.04	4.92	697.96
5	42.904116	-74.344641	611.77	4.92	616.69

Name: B05
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.908767	-74.347126	451.87	4.92	456.79
2	42.909367	-74.342054	527.15	4.92	532.07
3	42.905825	-74.342063	605.34	4.92	610.26
4	42.905866	-74.343762	572.82	4.92	577.74
5	42.907018	-74.347130	493.21	4.92	498.13

Name: B06
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909367	-74.342054	527.15	4.92	532.07
2	42.907587	-74.336851	562.27	4.92	567.19
3	42.906426	-74.336854	617.95	4.92	622.87
4	42.906359	-74.342062	578.70	4.92	583.62

Name: B07
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.914133	-74.342042	422.30	4.92	427.22
2	42.914429	-74.339664	433.96	4.92	438.88
3	42.913731	-74.337624	472.61	4.92	477.53
4	42.908411	-74.337638	540.06	4.92	544.98
5	42.909922	-74.342053	526.46	4.92	531.38

Name: B08
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913172	-74.337626	468.28	4.92	473.20
2	42.911956	-74.334072	478.53	4.92	483.45
3	42.909669	-74.334078	525.76	4.92	530.68
4	42.908124	-74.335632	552.97	4.92	557.89
5	42.908810	-74.337637	535.31	4.92	540.23

Name: B09
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913932	-74.337624	472.14	4.92	477.06
2	42.915549	-74.335001	450.81	4.92	455.73
3	42.914143	-74.330892	444.99	4.92	449.91
4	42.911864	-74.333804	478.06	4.92	482.98
5	42.913172	-74.337626	468.28	4.92	473.20

Name: B10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.901857	-74.339043	690.68	4.92	695.60
2	42.905043	-74.336981	697.89	4.92	702.81
3	42.905164	-74.333828	689.79	4.92	694.71
4	42.901324	-74.336313	687.62	4.92	692.54

Name: B11
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905164	-74.333828	689.79	4.92	694.71
2	42.903926	-74.327488	580.96	4.92	585.88
3	42.902886	-74.332554	630.95	4.92	635.87
4	42.903362	-74.334994	664.53	4.92	669.45

Name: B12
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909207	-74.333900	537.63	4.92	542.55
2	42.910828	-74.331323	483.96	4.92	488.88
3	42.910239	-74.328306	509.74	4.92	514.66
4	42.906091	-74.330991	629.15	4.92	634.07
5	42.906945	-74.335363	605.87	4.92	610.79

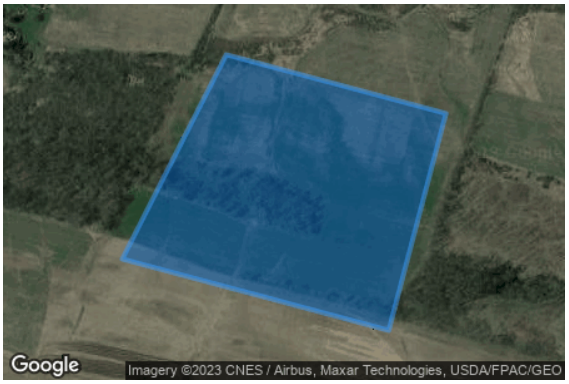
Name: B13
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.910239	-74.328306	509.74	4.92	514.66
2	42.909388	-74.323951	539.15	4.92	544.07
3	42.903926	-74.327488	580.96	4.92	585.88
4	42.904776	-74.331843	660.44	4.92	665.36

Name: B14
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909388	-74.323951	539.15	4.92	544.07
2	42.908024	-74.316964	503.40	4.92	508.32
3	42.906493	-74.316969	520.63	4.92	525.55
4	42.905961	-74.321336	539.83	4.92	544.75
5	42.906799	-74.325627	581.15	4.92	586.07

Name: B15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.912294	-74.323921	418.13	4.92	423.05
2	42.911556	-74.320145	425.14	4.92	430.06
3	42.908837	-74.321128	548.68	4.92	553.60
4	42.909731	-74.325708	532.17	4.92	537.09

Name: B16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.921593	-74.338482	451.16	4.92	456.08
2	42.922849	-74.333088	400.69	4.92	405.61
3	42.920275	-74.333095	433.11	4.92	438.03
4	42.919465	-74.336576	453.81	4.92	458.73

Name: B17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.923191	-74.331617	414.64	4.92	419.56
2	42.923894	-74.328594	351.19	4.92	356.11
3	42.921995	-74.328599	413.82	4.92	418.74
4	42.921470	-74.329119	419.76	4.92	424.68
5	42.920887	-74.331624	423.39	4.92	428.31

Name: B18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.926575	-74.326332	319.35	4.92	324.27
2	42.927277	-74.324523	308.36	4.92	313.28
3	42.923762	-74.324533	313.76	4.92	318.68
4	42.923766	-74.327094	338.23	4.92	343.15
5	42.924947	-74.327091	329.07	4.92	333.99

Route Receptors

Name: Route 01
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	42.948190	-74.381487	291.21	4.00	295.21
2	42.948151	-74.381974	290.21	4.00	294.21
3	42.948091	-74.382579	287.91	4.00	291.91
4	42.948015	-74.383152	287.90	4.00	291.90
5	42.947872	-74.384045	287.95	4.00	291.95
6	42.947654	-74.385083	288.33	4.00	292.33
7	42.947425	-74.385960	289.81	4.00	293.81
8	42.947159	-74.386843	291.20	4.00	295.20
9	42.946623	-74.388348	291.52	4.00	295.52
10	42.945874	-74.390300	293.92	4.00	297.92
11	42.945272	-74.391778	290.03	4.00	294.03
12	42.944435	-74.393739	290.33	4.00	294.33
13	42.942214	-74.398773	297.73	4.00	301.73
14	42.941688	-74.399946	299.45	4.00	303.45
15	42.940948	-74.401442	305.67	4.00	309.67
16	42.940241	-74.402773	303.59	4.00	307.59
17	42.939699	-74.403725	301.22	4.00	305.22
18	42.939018	-74.404860	299.50	4.00	303.50
19	42.937569	-74.407129	293.61	4.00	297.61
20	42.934918	-74.411251	291.70	4.00	295.70
21	42.932961	-74.414296	289.72	4.00	293.72
22	42.931184	-74.417064	285.87	4.00	289.87

Name: Route 02
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	42.930808	-74.416718	288.33	4.00	292.33
2	42.931694	-74.415227	288.94	4.00	292.94
3	42.932553	-74.413845	291.30	4.00	295.30
4	42.933687	-74.412126	291.80	4.00	295.80
5	42.935593	-74.409438	292.64	4.00	296.64
6	42.936985	-74.407498	294.37	4.00	298.37
7	42.937620	-74.406592	298.47	4.00	302.47
8	42.938362	-74.405498	297.94	4.00	301.94
9	42.939152	-74.404243	302.56	4.00	306.56
10	42.939762	-74.403204	304.48	4.00	308.48
11	42.940365	-74.402118	306.81	4.00	310.81
12	42.941116	-74.400664	303.89	4.00	307.89
13	42.941655	-74.399535	301.00	4.00	305.00
14	42.942292	-74.398105	295.35	4.00	299.35
15	42.942813	-74.396835	292.49	4.00	296.49
16	42.943838	-74.394304	290.27	4.00	294.27
17	42.944598	-74.392397	291.42	4.00	295.42
18	42.945291	-74.390541	292.78	4.00	296.78
19	42.945909	-74.388809	291.84	4.00	295.84
20	42.946576	-74.386761	290.25	4.00	294.25
21	42.947120	-74.384966	288.86	4.00	292.86
22	42.947430	-74.383834	288.07	4.00	292.07
23	42.947614	-74.383010	288.20	4.00	292.20
24	42.947771	-74.382144	288.64	4.00	292.64
25	42.947881	-74.381385	291.10	4.00	295.10

Name: Route 03
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.929852	-74.415749	298.52	4.00	302.52
2	42.930086	-74.415513	295.79	4.00	299.79
3	42.930587	-74.414893	302.77	4.00	306.77
4	42.931322	-74.414002	305.95	4.00	309.95
5	42.932104	-74.413033	313.37	4.00	317.37
6	42.933801	-74.410940	320.07	4.00	324.07
7	42.934739	-74.409731	317.38	4.00	321.38
8	42.936266	-74.407549	327.13	4.00	331.13
9	42.938728	-74.403979	349.53	4.00	353.53
10	42.939039	-74.403513	356.91	4.00	360.91
11	42.939351	-74.402964	363.18	4.00	367.18
12	42.939610	-74.402390	363.47	4.00	367.47
13	42.939857	-74.401738	359.48	4.00	363.48
14	42.940848	-74.398939	354.06	4.00	358.06
15	42.941249	-74.397813	360.10	4.00	364.10
16	42.941914	-74.396134	342.46	4.00	346.46
17	42.942742	-74.394269	326.95	4.00	330.95
18	42.944349	-74.390667	318.80	4.00	322.80
19	42.944954	-74.389269	328.98	4.00	332.98
20	42.945105	-74.388856	327.67	4.00	331.67
21	42.945853	-74.386643	317.42	4.00	321.42
22	42.946461	-74.384798	314.81	4.00	318.81
23	42.946948	-74.383337	311.43	4.00	315.43
24	42.947213	-74.382465	309.27	4.00	313.27
25	42.947384	-74.381751	308.03	4.00	312.03
26	42.947478	-74.381182	307.67	4.00	311.67
27	42.947584	-74.380287	307.87	4.00	311.87

Name: Route 04
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.925316	-74.405260	497.37	4.00	501.37
2	42.925544	-74.404525	499.04	4.00	503.04
3	42.925990	-74.403041	520.35	4.00	524.35
4	42.926741	-74.400554	548.32	4.00	552.32
5	42.927140	-74.399219	564.84	4.00	568.84
6	42.927256	-74.398771	568.79	4.00	572.79
7	42.927374	-74.398104	577.25	4.00	581.25
8	42.927530	-74.397019	582.16	4.00	586.16
9	42.927733	-74.395474	592.27	4.00	596.27
10	42.927774	-74.394921	598.68	4.00	602.68
11	42.927822	-74.393457	605.23	4.00	609.23
12	42.927838	-74.393111	606.12	4.00	610.12
13	42.927940	-74.391856	606.45	4.00	610.45
14	42.927963	-74.391258	607.92	4.00	611.92
15	42.927991	-74.388514	613.06	4.00	617.06
16	42.928004	-74.387279	613.59	4.00	617.59
17	42.928012	-74.384991	620.11	4.00	624.11
18	42.928020	-74.383626	616.37	4.00	620.37
19	42.928041	-74.383229	612.74	4.00	616.74
20	42.928104	-74.382513	596.19	4.00	600.19

Name: Route 05
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.927808	-74.395266	593.46	4.00	597.46
2	42.927971	-74.395349	592.47	4.00	596.47
3	42.928585	-74.396094	590.09	4.00	594.09
4	42.929735	-74.397343	592.92	4.00	596.92
5	42.930980	-74.398699	570.19	4.00	574.19
6	42.931809	-74.399592	562.70	4.00	566.70
7	42.932193	-74.400004	561.33	4.00	565.33
8	42.932653	-74.400420	548.17	4.00	552.17
9	42.932839	-74.400710	547.46	4.00	551.46
10	42.933295	-74.401279	542.10	4.00	546.10
11	42.933825	-74.401847	535.36	4.00	539.36

Name: Route 06
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.942446	-74.371267	422.24	4.00	426.24
2	42.941335	-74.372039	442.70	4.00	446.70
3	42.937595	-74.374513	499.27	4.00	503.27
4	42.936352	-74.375327	493.25	4.00	497.25
5	42.936083	-74.375545	497.78	4.00	501.78
6	42.935820	-74.375813	500.83	4.00	504.83
7	42.935395	-74.376366	508.57	4.00	512.57
8	42.934689	-74.377361	519.41	4.00	523.41
9	42.934363	-74.377770	522.74	4.00	526.74
10	42.934031	-74.378142	522.59	4.00	526.59
11	42.933403	-74.378802	534.76	4.00	538.76
12	42.932405	-74.379783	560.20	4.00	564.20
13	42.932026	-74.380101	579.39	4.00	583.39
14	42.931686	-74.380364	577.93	4.00	581.93
15	42.930085	-74.381552	590.40	4.00	594.40
16	42.929808	-74.381704	593.02	4.00	597.02
17	42.928266	-74.382335	599.08	4.00	603.08
18	42.928002	-74.382410	590.03	4.00	594.03
19	42.927297	-74.382468	577.83	4.00	581.83
20	42.925920	-74.382554	559.41	4.00	563.41
21	42.923141	-74.382623	532.87	4.00	536.87
22	42.921804	-74.382677	540.70	4.00	544.70
23	42.921297	-74.382755	520.46	4.00	524.46
24	42.921012	-74.382769	522.16	4.00	526.16
25	42.920792	-74.382726	525.97	4.00	529.97
26	42.920580	-74.382597	526.65	4.00	530.65
27	42.919714	-74.381888	509.28	4.00	513.28
28	42.916174	-74.378802	509.24	4.00	513.24
29	42.915157	-74.377894	512.61	4.00	516.61
30	42.912367	-74.375518	576.84	4.00	580.84
31	42.909775	-74.373204	567.01	4.00	571.01
32	42.906813	-74.370646	573.10	4.00	577.10
33	42.905616	-74.369630	569.88	4.00	573.88
34	42.903157	-74.367414	607.73	4.00	611.73
35	42.901417	-74.366017	605.16	4.00	609.16
36	42.900730	-74.365426	601.40	4.00	605.40
37	42.900522	-74.365190	600.58	4.00	604.58
38	42.900394	-74.365007	598.23	4.00	602.23
39	42.899961	-74.364312	586.25	4.00	590.25
40	42.899786	-74.364081	584.58	4.00	588.58
41	42.899618	-74.363948	583.46	4.00	587.46
42	42.899419	-74.363861	579.59	4.00	583.59
43	42.898316	-74.363454	562.86	4.00	566.86

Name: Route 07
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.918387	-74.380594	518.47	4.00	522.47
2	42.918929	-74.377869	503.67	4.00	507.67
3	42.919494	-74.374865	489.72	4.00	493.72
4	42.919553	-74.374248	491.37	4.00	495.37
5	42.919673	-74.372263	486.20	4.00	490.20
6	42.919891	-74.370275	484.06	4.00	488.06
7	42.920080	-74.368967	480.48	4.00	484.48
8	42.920404	-74.367208	478.80	4.00	482.80
9	42.920512	-74.366920	481.02	4.00	485.02
10	42.920637	-74.366759	481.43	4.00	485.43
11	42.920845	-74.366662	484.84	4.00	488.84
12	42.921679	-74.366405	507.03	4.00	511.03
13	42.922321	-74.366220	513.32	4.00	517.32
14	42.922668	-74.366176	525.05	4.00	529.05
15	42.923087	-74.366160	545.57	4.00	549.57
16	42.923811	-74.366191	550.25	4.00	554.25
17	42.924098	-74.366149	543.41	4.00	547.41
18	42.924410	-74.365980	527.55	4.00	531.55

Name: Route 08
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.907387	-74.394017	519.24	4.00	523.24
2	42.908432	-74.392043	512.31	4.00	516.31
3	42.909890	-74.389237	521.71	4.00	525.71
4	42.911605	-74.385979	528.99	4.00	532.99
5	42.913800	-74.381773	525.89	4.00	529.89
6	42.914657	-74.380140	516.89	4.00	520.89
7	42.915586	-74.378372	505.43	4.00	509.43

Name: Route 09
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.903861	-74.388341	607.70	4.00	611.70
2	42.905403	-74.384988	633.05	4.00	637.05
3	42.905713	-74.384257	638.45	4.00	642.45
4	42.906556	-74.381987	659.13	4.00	663.13
5	42.906780	-74.381223	651.33	4.00	655.33
6	42.906987	-74.380629	645.38	4.00	649.38
7	42.907287	-74.379961	643.47	4.00	647.47
8	42.907660	-74.379167	635.05	4.00	639.05
9	42.907935	-74.378663	628.26	4.00	632.26
10	42.908434	-74.377820	624.17	4.00	628.17
11	42.908589	-74.377528	622.19	4.00	626.19
12	42.908695	-74.377233	620.34	4.00	624.34
13	42.908844	-74.376611	609.83	4.00	613.83
14	42.909372	-74.374452	586.01	4.00	590.01
15	42.909677	-74.373232	567.92	4.00	571.92

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	42.905431	-74.369336	565.48	4.00	569.48
2	42.909968	-74.359305	505.77	4.00	509.77
3	42.911224	-74.356550	493.67	4.00	497.67
4	42.913121	-74.352312	479.41	4.00	483.41
5	42.914146	-74.350155	463.35	4.00	467.35
6	42.914453	-74.349726	457.65	4.00	461.65
7	42.914582	-74.349404	461.69	4.00	465.69
8	42.914661	-74.348830	462.13	4.00	466.13
9	42.914712	-74.348471	453.54	4.00	457.54
10	42.914832	-74.348224	453.38	4.00	457.38
11	42.915174	-74.347790	458.68	4.00	462.68
12	42.916254	-74.345397	470.09	4.00	474.09
13	42.916575	-74.344501	462.95	4.00	466.95
14	42.918351	-74.339204	468.92	4.00	472.92
15	42.918445	-74.338770	465.19	4.00	469.19
16	42.918629	-74.337118	457.36	4.00	461.36
17	42.918815	-74.336360	453.98	4.00	457.98
18	42.918996	-74.335649	449.27	4.00	453.27
19	42.919966	-74.331288	425.40	4.00	429.40
20	42.920233	-74.330837	431.91	4.00	435.91
21	42.920799	-74.330092	430.92	4.00	434.92
22	42.921064	-74.329465	431.58	4.00	435.58
23	42.921606	-74.328307	437.68	4.00	441.68
24	42.922352	-74.327384	407.49	4.00	411.49
25	42.922615	-74.327100	402.43	4.00	406.43
26	42.923079	-74.326863	379.80	4.00	383.80
27	42.923245	-74.326892	377.22	4.00	381.22
28	42.923394	-74.327053	368.87	4.00	372.87
29	42.923717	-74.327638	359.92	4.00	363.92
30	42.923925	-74.327799	356.89	4.00	360.89
31	42.924149	-74.327868	353.58	4.00	357.58
32	42.924396	-74.327782	345.82	4.00	349.82
33	42.924671	-74.327509	344.15	4.00	348.15
34	42.925245	-74.327227	333.47	4.00	337.47
35	42.926608	-74.326631	321.05	4.00	325.05
36	42.926840	-74.326497	318.39	4.00	322.39
37	42.927091	-74.326164	316.46	4.00	320.46
38	42.927783	-74.325054	336.06	4.00	340.06
39	42.928072	-74.324204	371.72	4.00	375.72
40	42.928373	-74.323302	348.28	4.00	352.28
41	42.928526	-74.322677	350.29	4.00	354.29
42	42.928698	-74.322143	355.44	4.00	359.44
43	42.929042	-74.321451	344.03	4.00	348.03
44	42.929771	-74.320171	292.17	4.00	296.17
45	42.930053	-74.319389	288.29	4.00	292.29
46	42.930300	-74.318139	300.43	4.00	304.43
47	42.930367	-74.318023	301.72	4.00	305.72
48	42.930454	-74.317964	301.37	4.00	305.37

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	42.923138	-74.361292	494.52	4.00	498.52
2	42.919979	-74.359737	476.49	4.00	480.49
3	42.919167	-74.359298	469.09	4.00	473.09
4	42.918722	-74.358997	469.04	4.00	473.04
5	42.918358	-74.358693	466.66	4.00	470.66
6	42.913853	-74.354362	490.48	4.00	494.48
7	42.911901	-74.352537	470.12	4.00	474.12
8	42.910373	-74.351154	449.15	4.00	453.15
9	42.910092	-74.350937	447.84	4.00	451.84
10	42.909839	-74.350814	442.43	4.00	446.43
11	42.909621	-74.350771	440.14	4.00	444.14
12	42.907659	-74.350504	442.84	4.00	446.84
13	42.907033	-74.350374	451.33	4.00	455.33
14	42.905658	-74.350039	481.36	4.00	485.36
15	42.904289	-74.349793	524.98	4.00	528.98
16	42.903881	-74.349675	543.23	4.00	547.23
17	42.903470	-74.349490	558.59	4.00	562.59
18	42.903094	-74.349264	573.28	4.00	577.28
19	42.902638	-74.348900	585.91	4.00	589.91
20	42.902074	-74.348395	598.83	4.00	602.83
21	42.901668	-74.348090	604.65	4.00	608.65
22	42.901379	-74.347907	610.39	4.00	614.39
23	42.900625	-74.347463	612.54	4.00	616.54
24	42.899916	-74.347018	608.07	4.00	612.07
25	42.899344	-74.346672	624.55	4.00	628.55
26	42.898746	-74.346345	639.04	4.00	643.04
27	42.898409	-74.346186	645.92	4.00	649.92
28	42.898002	-74.346073	655.29	4.00	659.29
29	42.897385	-74.345947	660.20	4.00	664.20
30	42.896520	-74.345780	663.56	4.00	667.56
31	42.895919	-74.345662	660.58	4.00	664.58
32	42.895348	-74.345545	664.14	4.00	668.14
33	42.895145	-74.345486	663.41	4.00	667.41
34	42.895004	-74.345354	665.55	4.00	669.55
35	42.894890	-74.345089	669.15	4.00	673.15
36	42.894731	-74.344689	677.23	4.00	681.23
37	42.894611	-74.344488	682.28	4.00	686.28
38	42.894442	-74.344381	689.72	4.00	693.72
39	42.894265	-74.344432	691.76	4.00	695.76
40	42.894124	-74.344609	690.90	4.00	694.90
41	42.894035	-74.344738	690.58	4.00	694.58
42	42.893811	-74.344920	688.54	4.00	692.54
43	42.892152	-74.345845	670.70	4.00	674.70
44	42.890562	-74.346780	726.58	4.00	730.58
45	42.890302	-74.346869	738.57	4.00	742.57
46	42.890090	-74.346882	745.67	4.00	749.67
47	42.889697	-74.346869	750.79	4.00	754.79

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	42.895505	-74.377512	611.32	4.00	615.32
2	42.895680	-74.376171	611.10	4.00	615.10
3	42.895837	-74.375286	611.06	4.00	615.06
4	42.896830	-74.370384	578.17	4.00	582.17
5	42.897356	-74.367582	574.88	4.00	578.88
6	42.897571	-74.366503	575.70	4.00	579.70
7	42.898003	-74.364700	570.84	4.00	574.84
8	42.898157	-74.363994	564.20	4.00	568.20
9	42.898411	-74.362731	558.95	4.00	562.95
10	42.898548	-74.361846	550.24	4.00	554.24
11	42.898591	-74.361336	546.39	4.00	550.39
12	42.898593	-74.359298	516.57	4.00	520.57
13	42.898538	-74.358289	502.93	4.00	506.93
14	42.898492	-74.355357	498.33	4.00	502.33
15	42.898502	-74.354428	546.29	4.00	550.29
16	42.898447	-74.353967	564.34	4.00	568.34
17	42.898349	-74.353546	567.89	4.00	571.89
18	42.898217	-74.353170	572.73	4.00	576.73
19	42.897977	-74.352728	574.46	4.00	578.46
20	42.897252	-74.351476	611.40	4.00	615.40
21	42.897042	-74.351036	616.45	4.00	620.45
22	42.895736	-74.347385	648.92	4.00	652.92
23	42.895055	-74.345507	664.35	4.00	668.35

Name: Route 13
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.891098	-74.356288	610.21	4.00	614.21
2	42.891104	-74.355612	608.49	4.00	612.49
3	42.891055	-74.355111	602.17	4.00	606.17
4	42.890990	-74.354692	604.15	4.00	608.15
5	42.890986	-74.354317	602.73	4.00	606.73
6	42.891079	-74.353995	596.53	4.00	600.53
7	42.891389	-74.353224	606.38	4.00	610.38
8	42.892124	-74.351663	638.56	4.00	642.56
9	42.892466	-74.350821	648.10	4.00	652.10
10	42.892816	-74.349839	659.96	4.00	663.96
11	42.893166	-74.348471	669.01	4.00	673.01
12	42.894101	-74.344785	690.31	4.00	694.31
13	42.894265	-74.344325	692.50	4.00	696.50
14	42.894465	-74.343526	702.87	4.00	706.87
15	42.894595	-74.342861	708.32	4.00	712.32
16	42.895811	-74.336698	739.71	4.00	743.71
17	42.896312	-74.334065	741.35	4.00	745.35
18	42.896860	-74.331013	750.48	4.00	754.48
19	42.896904	-74.330691	748.76	4.00	752.76
20	42.896908	-74.330364	745.22	4.00	749.22
21	42.896849	-74.329841	733.39	4.00	737.39
22	42.896778	-74.329202	723.31	4.00	727.31
23	42.896774	-74.328870	720.09	4.00	724.09
24	42.896813	-74.328527	716.90	4.00	720.90
25	42.896959	-74.328041	708.48	4.00	712.48
26	42.897205	-74.327377	696.77	4.00	700.77
27	42.897899	-74.325881	673.14	4.00	677.14
28	42.897981	-74.325623	672.33	4.00	676.33
29	42.898009	-74.325307	672.17	4.00	676.17
30	42.897976	-74.325016	673.96	4.00	677.96
31	42.897454	-74.322428	683.57	4.00	687.57
32	42.897299	-74.321524	679.31	4.00	683.31
33	42.897142	-74.320433	683.94	4.00	687.94
34	42.897002	-74.319677	694.86	4.00	698.86
35	42.896746	-74.318489	704.75	4.00	708.75
36	42.896642	-74.317733	700.66	4.00	704.66
37	42.896440	-74.315606	696.41	4.00	700.41
38	42.896562	-74.314971	691.87	4.00	695.87
39	42.896668	-74.314630	686.35	4.00	690.35
40	42.896835	-74.314276	675.48	4.00	679.48
41	42.897093	-74.313911	664.34	4.00	668.34
42	42.897397	-74.313635	656.01	4.00	660.01
43	42.903882	-74.309382	511.46	4.00	515.46
44	42.904848	-74.308667	495.18	4.00	499.18
45	42.905512	-74.308109	486.47	4.00	490.47
46	42.906003	-74.307684	474.86	4.00	478.86
47	42.906322	-74.307431	467.07	4.00	471.07
48	42.906683	-74.307169	455.42	4.00	459.42

Name: Route 14
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.894541	-74.344343	689.30	4.00	693.30
2	42.894854	-74.344110	689.47	4.00	693.47
3	42.899075	-74.341270	678.87	4.00	682.87
4	42.901941	-74.339351	688.81	4.00	692.81
5	42.905261	-74.337119	673.69	4.00	677.69
6	42.906585	-74.336231	620.39	4.00	624.39
7	42.907746	-74.335448	573.84	4.00	577.84
8	42.908389	-74.334975	551.00	4.00	555.00
9	42.908959	-74.334434	541.14	4.00	545.14
10	42.909475	-74.333878	528.56	4.00	532.56
11	42.910057	-74.333108	508.23	4.00	512.23
12	42.910403	-74.332553	497.28	4.00	501.28
13	42.910760	-74.331895	487.40	4.00	491.40
14	42.911092	-74.331213	476.83	4.00	480.83
15	42.911668	-74.329983	463.09	4.00	467.09
16	42.912214	-74.328900	450.81	4.00	454.81
17	42.912512	-74.328451	443.89	4.00	447.89
18	42.912870	-74.328033	440.35	4.00	444.35
19	42.913485	-74.327523	426.49	4.00	430.49
20	42.915390	-74.326131	425.71	4.00	429.71
21	42.915707	-74.325957	423.63	4.00	427.63
22	42.916127	-74.325748	422.64	4.00	426.64
23	42.917249	-74.325295	422.34	4.00	426.34
24	42.917704	-74.325084	422.94	4.00	426.94
25	42.918113	-74.324837	422.54	4.00	426.54
26	42.918413	-74.324588	423.33	4.00	427.33
27	42.919171	-74.323912	423.28	4.00	427.28
28	42.920300	-74.322881	422.68	4.00	426.68
29	42.921482	-74.321674	418.07	4.00	422.07
30	42.923154	-74.319905	406.72	4.00	410.72
31	42.924553	-74.318415	385.38	4.00	389.38
32	42.925145	-74.317792	382.96	4.00	386.96
33	42.925562	-74.317410	381.42	4.00	385.42
34	42.925960	-74.317128	364.11	4.00	368.11
35	42.926432	-74.316882	347.06	4.00	351.06
36	42.926772	-74.316760	338.37	4.00	342.37
37	42.929626	-74.316060	310.88	4.00	314.88
38	42.929969	-74.315931	302.45	4.00	306.45

Name: Route 15
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.898055	-74.325508	672.09	4.00	676.09
2	42.898263	-74.325422	668.12	4.00	672.12
3	42.899530	-74.324596	626.00	4.00	630.00
4	42.900900	-74.323668	600.08	4.00	604.08
5	42.901334	-74.323389	591.00	4.00	595.00
6	42.901550	-74.323266	590.13	4.00	594.13
7	42.901811	-74.323204	588.82	4.00	592.82
8	42.902197	-74.323179	577.52	4.00	581.52
9	42.902452	-74.323104	569.98	4.00	573.98
10	42.903100	-74.322790	553.41	4.00	557.41
11	42.903607	-74.322556	547.50	4.00	551.50
12	42.904258	-74.322369	532.23	4.00	536.23
13	42.905151	-74.322202	544.01	4.00	548.01
14	42.905322	-74.322108	543.19	4.00	547.19
15	42.905430	-74.321926	540.54	4.00	544.54
16	42.905483	-74.321690	539.08	4.00	543.08
17	42.906283	-74.316925	516.93	4.00	520.93
18	42.906345	-74.316726	516.76	4.00	520.76
19	42.906441	-74.316535	517.23	4.00	521.23
20	42.906594	-74.316388	517.02	4.00	521.02
21	42.907199	-74.315967	517.43	4.00	521.43
22	42.908850	-74.314853	476.05	4.00	480.05
23	42.909597	-74.314317	464.28	4.00	468.28
24	42.910815	-74.313552	435.44	4.00	439.44
25	42.911998	-74.312785	412.49	4.00	416.49
26	42.912751	-74.312319	412.53	4.00	416.53
27	42.913154	-74.312115	407.87	4.00	411.87
28	42.913606	-74.311938	403.44	4.00	407.44
29	42.913831	-74.311888	400.35	4.00	404.35
30	42.914554	-74.311845	395.31	4.00	399.31
31	42.914856	-74.311769	395.15	4.00	399.15
32	42.915125	-74.311646	398.27	4.00	402.27
33	42.915535	-74.311362	397.68	4.00	401.68
34	42.915800	-74.311180	399.06	4.00	403.06

Name: Route 16
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.934100	-74.328020	326.49	4.00	330.49
2	42.933906	-74.327485	319.40	4.00	323.40
3	42.933166	-74.325561	308.76	4.00	312.76
4	42.932424	-74.323475	308.58	4.00	312.58
5	42.930806	-74.318745	302.37	4.00	306.37
6	42.930588	-74.318066	300.79	4.00	304.79
7	42.930373	-74.317307	301.82	4.00	305.82
8	42.930163	-74.316459	299.61	4.00	303.61
9	42.929984	-74.315644	302.74	4.00	306.74
10	42.929878	-74.315089	304.48	4.00	308.48

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
B01	SA tracking	SA tracking	0	0.0	0	0.0	-
B02	SA tracking	SA tracking	0	0.0	0	0.0	-
B03	SA tracking	SA tracking	0	0.0	0	0.0	-
B04	SA tracking	SA tracking	0	0.0	0	0.0	-
B05	SA tracking	SA tracking	0	0.0	0	0.0	-
B06	SA tracking	SA tracking	0	0.0	0	0.0	-
B07	SA tracking	SA tracking	0	0.0	0	0.0	-
B08	SA tracking	SA tracking	0	0.0	0	0.0	-
B09	SA tracking	SA tracking	0	0.0	0	0.0	-
B10	SA tracking	SA tracking	0	0.0	0	0.0	-
B11	SA tracking	SA tracking	0	0.0	0	0.0	-
B12	SA tracking	SA tracking	0	0.0	0	0.0	-
B13	SA tracking	SA tracking	0	0.0	0	0.0	-
B14	SA tracking	SA tracking	0	0.0	0	0.0	-
B15	SA tracking	SA tracking	0	0.0	0	0.0	-
B16	SA tracking	SA tracking	0	0.0	0	0.0	-
B17	SA tracking	SA tracking	0	0.0	0	0.0	-
B18	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 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

PV: B01 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B01 and Route: Route 01

No glare found

B01 and Route: Route 02

No glare found

B01 and Route: Route 03

No glare found

B01 and Route: Route 04

No glare found

B01 and Route: Route 05

No glare found

B01 and Route: Route 06

No glare found

B01 and Route: Route 07

No glare found

B01 and Route: Route 08

No glare found

B01 and Route: Route 09

No glare found

B01 and Route: Route 10

No glare found

B01 and Route: Route 11

No glare found

B01 and Route: Route 12

No glare found

B01 and Route: Route 13

No glare found

B01 and Route: Route 14

No glare found

B01 and Route: Route 15

No glare found

B01 and Route: Route 16

No glare found

PV: B02 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B02 and Route: Route 01

No glare found

B02 and Route: Route 02

No glare found

B02 and Route: Route 03

No glare found

B02 and Route: Route 04

No glare found

B02 and Route: Route 05

No glare found

B02 and Route: Route 06

No glare found

B02 and Route: Route 07

No glare found

B02 and Route: Route 08

No glare found

B02 and Route: Route 09

No glare found

B02 and Route: Route 10

No glare found

B02 and Route: Route 11

No glare found

B02 and Route: Route 12

No glare found

B02 and Route: Route 13

No glare found

B02 and Route: Route 14

No glare found

B02 and Route: Route 15

No glare found

B02 and Route: Route 16

No glare found

PV: B03 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B03 and Route: Route 01

No glare found

B03 and Route: Route 02

No glare found

B03 and Route: Route 03

No glare found

B03 and Route: Route 04

No glare found

B03 and Route: Route 05

No glare found

B03 and Route: Route 06

No glare found

B03 and Route: Route 07

No glare found

B03 and Route: Route 08

No glare found

B03 and Route: Route 09

No glare found

B03 and Route: Route 10

No glare found

B03 and Route: Route 11

No glare found

B03 and Route: Route 12

No glare found

B03 and Route: Route 13

No glare found

B03 and Route: Route 14

No glare found

B03 and Route: Route 15

No glare found

B03 and Route: Route 16

No glare found

PV: B04 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B04 and Route: Route 01

No glare found

B04 and Route: Route 02

No glare found

B04 and Route: Route 03

No glare found

B04 and Route: Route 04

No glare found

B04 and Route: Route 05

No glare found

B04 and Route: Route 06

No glare found

B04 and Route: Route 07

No glare found

B04 and Route: Route 08

No glare found

B04 and Route: Route 09

No glare found

B04 and Route: Route 10

No glare found

B04 and Route: Route 11

No glare found

B04 and Route: Route 12

No glare found

B04 and Route: Route 13

No glare found

B04 and Route: Route 14

No glare found

B04 and Route: Route 15

No glare found

B04 and Route: Route 16

No glare found

PV: B05 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B05 and Route: Route 01

No glare found

B05 and Route: Route 02

No glare found

B05 and Route: Route 03

No glare found

B05 and Route: Route 04

No glare found

B05 and Route: Route 05

No glare found

B05 and Route: Route 06

No glare found

B05 and Route: Route 07

No glare found

B05 and Route: Route 08

No glare found

B05 and Route: Route 09

No glare found

B05 and Route: Route 10

No glare found

B05 and Route: Route 11

No glare found

B05 and Route: Route 12

No glare found

B05 and Route: Route 13

No glare found

B05 and Route: Route 14

No glare found

B05 and Route: Route 15

No glare found

B05 and Route: Route 16

No glare found

PV: B06 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B06 and Route: Route 01

No glare found

B06 and Route: Route 02

No glare found

B06 and Route: Route 03

No glare found

B06 and Route: Route 04

No glare found

B06 and Route: Route 05

No glare found

B06 and Route: Route 06

No glare found

B06 and Route: Route 07

No glare found

B06 and Route: Route 08

No glare found

B06 and Route: Route 09

No glare found

B06 and Route: Route 10

No glare found

B06 and Route: Route 11

No glare found

B06 and Route: Route 12

No glare found

B06 and Route: Route 13

No glare found

B06 and Route: Route 14

No glare found

B06 and Route: Route 15

No glare found

B06 and Route: Route 16

No glare found

PV: B07 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B07 and Route: Route 01

No glare found

B07 and Route: Route 02

No glare found

B07 and Route: Route 03

No glare found

B07 and Route: Route 04

No glare found

B07 and Route: Route 05

No glare found

B07 and Route: Route 06

No glare found

B07 and Route: Route 07

No glare found

B07 and Route: Route 08

No glare found

B07 and Route: Route 09

No glare found

B07 and Route: Route 10

No glare found

B07 and Route: Route 11

No glare found

B07 and Route: Route 12

No glare found

B07 and Route: Route 13

No glare found

B07 and Route: Route 14

No glare found

B07 and Route: Route 15

No glare found

B07 and Route: Route 16

No glare found

PV: B08 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B08 and Route: Route 01

No glare found

B08 and Route: Route 02

No glare found

B08 and Route: Route 03

No glare found

B08 and Route: Route 04

No glare found

B08 and Route: Route 05

No glare found

B08 and Route: Route 06

No glare found

B08 and Route: Route 07

No glare found

B08 and Route: Route 08

No glare found

B08 and Route: Route 09

No glare found

B08 and Route: Route 10

No glare found

B08 and Route: Route 11

No glare found

B08 and Route: Route 12

No glare found

B08 and Route: Route 13

No glare found

B08 and Route: Route 14

No glare found

B08 and Route: Route 15

No glare found

B08 and Route: Route 16

No glare found

PV: B09 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B09 and Route: Route 01

No glare found

B09 and Route: Route 02

No glare found

B09 and Route: Route 03

No glare found

B09 and Route: Route 04

No glare found

B09 and Route: Route 05

No glare found

B09 and Route: Route 06

No glare found

B09 and Route: Route 07

No glare found

B09 and Route: Route 08

No glare found

B09 and Route: Route 09

No glare found

B09 and Route: Route 10

No glare found

B09 and Route: Route 11

No glare found

B09 and Route: Route 12

No glare found

B09 and Route: Route 13

No glare found

B09 and Route: Route 14

No glare found

B09 and Route: Route 15

No glare found

B09 and Route: Route 16

No glare found

PV: B10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B10 and Route: Route 01

No glare found

B10 and Route: Route 02

No glare found

B10 and Route: Route 03

No glare found

B10 and Route: Route 04

No glare found

B10 and Route: Route 05

No glare found

B10 and Route: Route 06

No glare found

B10 and Route: Route 07

No glare found

B10 and Route: Route 08

No glare found

B10 and Route: Route 09

No glare found

B10 and Route: Route 10

No glare found

B10 and Route: Route 11

No glare found

B10 and Route: Route 12

No glare found

B10 and Route: Route 13

No glare found

B10 and Route: Route 14

No glare found

B10 and Route: Route 15

No glare found

B10 and Route: Route 16

No glare found

PV: B11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B11 and Route: Route 01

No glare found

B11 and Route: Route 02

No glare found

B11 and Route: Route 03

No glare found

B11 and Route: Route 04

No glare found

B11 and Route: Route 05

No glare found

B11 and Route: Route 06

No glare found

B11 and Route: Route 07

No glare found

B11 and Route: Route 08

No glare found

B11 and Route: Route 09

No glare found

B11 and Route: Route 10

No glare found

B11 and Route: Route 11

No glare found

B11 and Route: Route 12

No glare found

B11 and Route: Route 13

No glare found

B11 and Route: Route 14

No glare found

B11 and Route: Route 15

No glare found

B11 and Route: Route 16

No glare found

PV: B12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B12 and Route: Route 01

No glare found

B12 and Route: Route 02

No glare found

B12 and Route: Route 03

No glare found

B12 and Route: Route 04

No glare found

B12 and Route: Route 05

No glare found

B12 and Route: Route 06

No glare found

B12 and Route: Route 07

No glare found

B12 and Route: Route 08

No glare found

B12 and Route: Route 09

No glare found

B12 and Route: Route 10

No glare found

B12 and Route: Route 11

No glare found

B12 and Route: Route 12

No glare found

B12 and Route: Route 13

No glare found

B12 and Route: Route 14

No glare found

B12 and Route: Route 15

No glare found

B12 and Route: Route 16

No glare found

PV: B13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B13 and Route: Route 01

No glare found

B13 and Route: Route 02

No glare found

B13 and Route: Route 03

No glare found

B13 and Route: Route 04

No glare found

B13 and Route: Route 05

No glare found

B13 and Route: Route 06

No glare found

B13 and Route: Route 07

No glare found

B13 and Route: Route 08

No glare found

B13 and Route: Route 09

No glare found

B13 and Route: Route 10

No glare found

B13 and Route: Route 11

No glare found

B13 and Route: Route 12

No glare found

B13 and Route: Route 13

No glare found

B13 and Route: Route 14

No glare found

B13 and Route: Route 15

No glare found

B13 and Route: Route 16

No glare found

PV: B14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B14 and Route: Route 01

No glare found

B14 and Route: Route 02

No glare found

B14 and Route: Route 03

No glare found

B14 and Route: Route 04

No glare found

B14 and Route: Route 05

No glare found

B14 and Route: Route 06

No glare found

B14 and Route: Route 07

No glare found

B14 and Route: Route 08

No glare found

B14 and Route: Route 09

No glare found

B14 and Route: Route 10

No glare found

B14 and Route: Route 11

No glare found

B14 and Route: Route 12

No glare found

B14 and Route: Route 13

No glare found

B14 and Route: Route 14

No glare found

B14 and Route: Route 15

No glare found

B14 and Route: Route 16

No glare found

PV: B15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B15 and Route: Route 01

No glare found

B15 and Route: Route 02

No glare found

B15 and Route: Route 03

No glare found

B15 and Route: Route 04

No glare found

B15 and Route: Route 05

No glare found

B15 and Route: Route 06

No glare found

B15 and Route: Route 07

No glare found

B15 and Route: Route 08

No glare found

B15 and Route: Route 09

No glare found

B15 and Route: Route 10

No glare found

B15 and Route: Route 11

No glare found

B15 and Route: Route 12

No glare found

B15 and Route: Route 13

No glare found

B15 and Route: Route 14

No glare found

B15 and Route: Route 15

No glare found

B15 and Route: Route 16

No glare found

PV: B16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B16 and Route: Route 01

No glare found

B16 and Route: Route 02

No glare found

B16 and Route: Route 03

No glare found

B16 and Route: Route 04

No glare found

B16 and Route: Route 05

No glare found

B16 and Route: Route 06

No glare found

B16 and Route: Route 07

No glare found

B16 and Route: Route 08

No glare found

B16 and Route: Route 09

No glare found

B16 and Route: Route 10

No glare found

B16 and Route: Route 11

No glare found

B16 and Route: Route 12

No glare found

B16 and Route: Route 13

No glare found

B16 and Route: Route 14

No glare found

B16 and Route: Route 15

No glare found

B16 and Route: Route 16

No glare found

PV: B17 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B17 and Route: Route 01

No glare found

B17 and Route: Route 02

No glare found

B17 and Route: Route 03

No glare found

B17 and Route: Route 04

No glare found

B17 and Route: Route 05

No glare found

B17 and Route: Route 06

No glare found

B17 and Route: Route 07

No glare found

B17 and Route: Route 08

No glare found

B17 and Route: Route 09

No glare found

B17 and Route: Route 10

No glare found

B17 and Route: Route 11

No glare found

B17 and Route: Route 12

No glare found

B17 and Route: Route 13

No glare found

B17 and Route: Route 14

No glare found

B17 and Route: Route 15

No glare found

B17 and Route: Route 16

No glare found

PV: B18 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B18 and Route: Route 01

No glare found

B18 and Route: Route 02

No glare found

B18 and Route: Route 03

No glare found

B18 and Route: Route 04

No glare found

B18 and Route: Route 05

No glare found

B18 and Route: Route 06

No glare found

B18 and Route: Route 07

No glare found

B18 and Route: Route 08

No glare found

B18 and Route: Route 09

No glare found

B18 and Route: Route 10

No glare found

B18 and Route: Route 11

No glare found

B18 and Route: Route 12

No glare found

B18 and Route: Route 13

No glare found

B18 and Route: Route 14

No glare found

B18 and Route: Route 15

No glare found

B18 and Route: Route 16

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

FORGESOLAR GLARE ANALYSIS

Project: **Mill Point Solar I Project**
Located in Montgomery County, New York

Site configuration: **B - trucks**

Client: ConnectGen Montgomery County LLC

Created 03 Aug, 2023
Updated 13 Dec, 2023
Time-step 1 minute
Timezone offset UTC-5
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 10 MW to 100 MW
Site ID 96847.16931

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
	°	°	min	hr	min	hr	kWh
B01	SA tracking	SA tracking	0	0.0	0	0.0	-
B02	SA tracking	SA tracking	0	0.0	0	0.0	-
B03	SA tracking	SA tracking	0	0.0	0	0.0	-
B04	SA tracking	SA tracking	0	0.0	0	0.0	-
B05	SA tracking	SA tracking	0	0.0	0	0.0	-
B06	SA tracking	SA tracking	0	0.0	0	0.0	-
B07	SA tracking	SA tracking	0	0.0	0	0.0	-
B08	SA tracking	SA tracking	0	0.0	0	0.0	-
B09	SA tracking	SA tracking	0	0.0	0	0.0	-
B10	SA tracking	SA tracking	0	0.0	0	0.0	-
B11	SA tracking	SA tracking	0	0.0	0	0.0	-
B12	SA tracking	SA tracking	0	0.0	0	0.0	-
B13	SA tracking	SA tracking	0	0.0	0	0.0	-
B14	SA tracking	SA tracking	0	0.0	0	0.0	-
B15	SA tracking	SA tracking	0	0.0	0	0.0	-
B16	SA tracking	SA tracking	0	0.0	0	0.0	-
B17	SA tracking	SA tracking	0	0.0	0	0.0	-
B18	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 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

Component Data

PV Arrays

Name: B01
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.900388	-74.355084	556.68	4.92	561.60
2	42.902424	-74.350121	558.63	4.92	563.55
3	42.901508	-74.348664	596.05	4.92	600.97
4	42.900594	-74.348245	613.20	4.92	618.12
5	42.898498	-74.353356	563.36	4.92	568.28
6	42.898656	-74.353660	564.54	4.92	569.46

Name: B02
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.898498	-74.353356	563.36	4.92	568.28
2	42.900594	-74.348245	613.20	4.92	618.12
3	42.898053	-74.347078	651.73	4.92	656.65
4	42.896893	-74.349905	630.46	4.92	635.38
5	42.897345	-74.351133	613.62	4.92	618.54

Name: B03
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.907451	-74.348395	487.23	4.92	492.15
2	42.905866	-74.343762	572.82	4.92	577.74
3	42.903315	-74.345043	626.94	4.92	631.86
4	42.904464	-74.348402	532.45	4.92	537.37

Name: B04
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905866	-74.343762	572.82	4.92	577.74
2	42.905825	-74.342063	605.34	4.92	610.26
3	42.904452	-74.338051	709.93	4.92	714.85
4	42.902324	-74.339402	693.04	4.92	697.96
5	42.904116	-74.344641	611.77	4.92	616.69

Name: B05
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.908767	-74.347126	451.87	4.92	456.79
2	42.909367	-74.342054	527.15	4.92	532.07
3	42.905825	-74.342063	605.34	4.92	610.26
4	42.905866	-74.343762	572.82	4.92	577.74
5	42.907018	-74.347130	493.21	4.92	498.13

Name: B06
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909367	-74.342054	527.15	4.92	532.07
2	42.907587	-74.336851	562.27	4.92	567.19
3	42.906426	-74.336854	617.95	4.92	622.87
4	42.906359	-74.342062	578.70	4.92	583.62

Name: B07
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.914133	-74.342042	422.30	4.92	427.22
2	42.914429	-74.339664	433.96	4.92	438.88
3	42.913731	-74.337624	472.61	4.92	477.53
4	42.908411	-74.337638	540.06	4.92	544.98
5	42.909922	-74.342053	526.46	4.92	531.38

Name: B08
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913172	-74.337626	468.28	4.92	473.20
2	42.911956	-74.334072	478.53	4.92	483.45
3	42.909669	-74.334078	525.76	4.92	530.68
4	42.908124	-74.335632	552.97	4.92	557.89
5	42.908810	-74.337637	535.31	4.92	540.23

Name: B09
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.913932	-74.337624	472.14	4.92	477.06
2	42.915549	-74.335001	450.81	4.92	455.73
3	42.914143	-74.330892	444.99	4.92	449.91
4	42.911864	-74.333804	478.06	4.92	482.98
5	42.913172	-74.337626	468.28	4.92	473.20

Name: B10
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.901857	-74.339043	690.68	4.92	695.60
2	42.905043	-74.336981	697.89	4.92	702.81
3	42.905164	-74.333828	689.79	4.92	694.71
4	42.901324	-74.336313	687.62	4.92	692.54

Name: B11
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.905164	-74.333828	689.79	4.92	694.71
2	42.903926	-74.327488	580.96	4.92	585.88
3	42.902886	-74.332554	630.95	4.92	635.87
4	42.903362	-74.334994	664.53	4.92	669.45

Name: B12
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909207	-74.333900	537.63	4.92	542.55
2	42.910828	-74.331323	483.96	4.92	488.88
3	42.910239	-74.328306	509.74	4.92	514.66
4	42.906091	-74.330991	629.15	4.92	634.07
5	42.906945	-74.335363	605.87	4.92	610.79

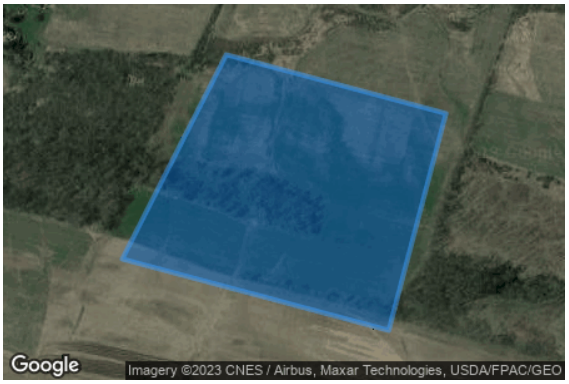
Name: B13
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass with AR coating
Reflectivity: Vary with sun
Slope error: correlate with material

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.910239	-74.328306	509.74	4.92	514.66
2	42.909388	-74.323951	539.15	4.92	544.07
3	42.903926	-74.327488	580.96	4.92	585.88
4	42.904776	-74.331843	660.44	4.92	665.36

Name: B14
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.909388	-74.323951	539.15	4.92	544.07
2	42.908024	-74.316964	503.40	4.92	508.32
3	42.906493	-74.316969	520.63	4.92	525.55
4	42.905961	-74.321336	539.83	4.92	544.75
5	42.906799	-74.325627	581.15	4.92	586.07

Name: B15
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.912294	-74.323921	418.13	4.92	423.05
2	42.911556	-74.320145	425.14	4.92	430.06
3	42.908837	-74.321128	548.68	4.92	553.60
4	42.909731	-74.325708	532.17	4.92	537.09

Name: B16
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.921593	-74.338482	451.16	4.92	456.08
2	42.922849	-74.333088	400.69	4.92	405.61
3	42.920275	-74.333095	433.11	4.92	438.03
4	42.919465	-74.336576	453.81	4.92	458.73

Name: B17
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.923191	-74.331617	414.64	4.92	419.56
2	42.923894	-74.328594	351.19	4.92	356.11
3	42.921995	-74.328599	413.82	4.92	418.74
4	42.921470	-74.329119	419.76	4.92	424.68
5	42.920887	-74.331624	423.39	4.92	428.31

Name: B18
Axis tracking: Single-axis rotation
Backtracking: Shade-slope
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 20.0°
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	42.926575	-74.326332	319.35	4.92	324.27
2	42.927277	-74.324523	308.36	4.92	313.28
3	42.923762	-74.324533	313.76	4.92	318.68
4	42.923766	-74.327094	338.23	4.92	343.15
5	42.924947	-74.327091	329.07	4.92	333.99

Route Receptors

Name: Route 01
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	42.948190	-74.381487	291.21	8.00	299.21
2	42.948151	-74.381974	290.21	8.00	298.21
3	42.948091	-74.382579	287.91	8.00	295.91
4	42.948015	-74.383152	287.90	8.00	295.90
5	42.947872	-74.384045	287.95	8.00	295.95
6	42.947654	-74.385083	288.33	8.00	296.33
7	42.947425	-74.385960	289.81	8.00	297.81
8	42.947159	-74.386843	291.20	8.00	299.20
9	42.946623	-74.388348	291.52	8.00	299.52
10	42.945874	-74.390300	293.92	8.00	301.92
11	42.945272	-74.391778	290.03	8.00	298.03
12	42.944435	-74.393739	290.33	8.00	298.33
13	42.942214	-74.398773	297.73	8.00	305.73
14	42.941688	-74.399946	299.45	8.00	307.45
15	42.940948	-74.401442	305.67	8.00	313.67
16	42.940241	-74.402773	303.59	8.00	311.59
17	42.939699	-74.403725	301.22	8.00	309.22
18	42.939018	-74.404860	299.50	8.00	307.50
19	42.937569	-74.407129	293.61	8.00	301.61
20	42.934918	-74.411251	291.70	8.00	299.70
21	42.932961	-74.414296	289.72	8.00	297.72
22	42.931184	-74.417064	285.87	8.00	293.87

Name: Route 02
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	42.930808	-74.416718	288.33	8.00	296.33
2	42.931694	-74.415227	288.94	8.00	296.94
3	42.932553	-74.413845	291.30	8.00	299.30
4	42.933687	-74.412126	291.80	8.00	299.80
5	42.935593	-74.409438	292.64	8.00	300.64
6	42.936985	-74.407498	294.37	8.00	302.37
7	42.937620	-74.406592	298.47	8.00	306.47
8	42.938362	-74.405498	297.94	8.00	305.94
9	42.939152	-74.404243	302.56	8.00	310.56
10	42.939762	-74.403204	304.48	8.00	312.48
11	42.940365	-74.402118	306.81	8.00	314.81
12	42.941116	-74.400664	303.89	8.00	311.89
13	42.941655	-74.399535	301.00	8.00	309.00
14	42.942292	-74.398105	295.35	8.00	303.35
15	42.942813	-74.396835	292.49	8.00	300.49
16	42.943838	-74.394304	290.27	8.00	298.27
17	42.944598	-74.392397	291.42	8.00	299.42
18	42.945291	-74.390541	292.78	8.00	300.78
19	42.945909	-74.388809	291.84	8.00	299.84
20	42.946576	-74.386761	290.25	8.00	298.25
21	42.947120	-74.384966	288.86	8.00	296.86
22	42.947430	-74.383834	288.07	8.00	296.07
23	42.947614	-74.383010	288.20	8.00	296.20
24	42.947771	-74.382144	288.64	8.00	296.64
25	42.947881	-74.381385	291.10	8.00	299.10

Name: Route 03
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.929852	-74.415749	298.52	8.00	306.52
2	42.930086	-74.415513	295.79	8.00	303.79
3	42.930587	-74.414893	302.77	8.00	310.77
4	42.931322	-74.414002	305.95	8.00	313.95
5	42.932104	-74.413033	313.37	8.00	321.37
6	42.933801	-74.410940	320.07	8.00	328.07
7	42.934739	-74.409731	317.38	8.00	325.38
8	42.936266	-74.407549	327.13	8.00	335.13
9	42.938728	-74.403979	349.53	8.00	357.53
10	42.939039	-74.403513	356.91	8.00	364.91
11	42.939351	-74.402964	363.18	8.00	371.18
12	42.939610	-74.402390	363.47	8.00	371.47
13	42.939857	-74.401738	359.48	8.00	367.48
14	42.940848	-74.398939	354.06	8.00	362.06
15	42.941249	-74.397813	360.10	8.00	368.10
16	42.941914	-74.396134	342.46	8.00	350.46
17	42.942742	-74.394269	326.95	8.00	334.95
18	42.944349	-74.390667	318.80	8.00	326.80
19	42.944954	-74.389269	328.98	8.00	336.98
20	42.945105	-74.388856	327.67	8.00	335.67
21	42.945853	-74.386643	317.42	8.00	325.42
22	42.946461	-74.384798	314.81	8.00	322.81
23	42.946948	-74.383337	311.43	8.00	319.43
24	42.947213	-74.382465	309.27	8.00	317.27
25	42.947384	-74.381751	308.03	8.00	316.03
26	42.947478	-74.381182	307.67	8.00	315.67
27	42.947584	-74.380287	307.87	8.00	315.87

Name: Route 04
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.925316	-74.405260	497.37	8.00	505.37
2	42.925544	-74.404525	499.04	8.00	507.04
3	42.925990	-74.403041	520.35	8.00	528.35
4	42.926741	-74.400554	548.32	8.00	556.32
5	42.927140	-74.399219	564.84	8.00	572.84
6	42.927256	-74.398771	568.79	8.00	576.79
7	42.927374	-74.398104	577.25	8.00	585.25
8	42.927530	-74.397019	582.16	8.00	590.16
9	42.927733	-74.395474	592.27	8.00	600.27
10	42.927774	-74.394921	598.68	8.00	606.68
11	42.927822	-74.393457	605.23	8.00	613.23
12	42.927838	-74.393111	606.12	8.00	614.12
13	42.927940	-74.391856	606.45	8.00	614.45
14	42.927963	-74.391258	607.92	8.00	615.92
15	42.927991	-74.388514	613.06	8.00	621.06
16	42.928004	-74.387279	613.59	8.00	621.59
17	42.928012	-74.384991	620.11	8.00	628.11
18	42.928020	-74.383626	616.37	8.00	624.37
19	42.928041	-74.383229	612.74	8.00	620.74
20	42.928104	-74.382513	596.19	8.00	604.19

Name: Route 05
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.927808	-74.395266	593.46	8.00	601.46
2	42.927971	-74.395349	592.47	8.00	600.47
3	42.928585	-74.396094	590.09	8.00	598.09
4	42.929735	-74.397343	592.92	8.00	600.92
5	42.930980	-74.398699	570.19	8.00	578.19
6	42.931809	-74.399592	562.70	8.00	570.70
7	42.932193	-74.400004	561.33	8.00	569.33
8	42.932653	-74.400420	548.17	8.00	556.17
9	42.932839	-74.400710	547.46	8.00	555.46
10	42.933295	-74.401279	542.10	8.00	550.10
11	42.933825	-74.401847	535.36	8.00	543.36

Name: Route 06
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.942446	-74.371267	422.24	8.00	430.24
2	42.941335	-74.372039	442.70	8.00	450.70
3	42.937595	-74.374513	499.27	8.00	507.27
4	42.936352	-74.375327	493.25	8.00	501.25
5	42.936083	-74.375545	497.78	8.00	505.78
6	42.935820	-74.375813	500.83	8.00	508.83
7	42.935395	-74.376366	508.57	8.00	516.57
8	42.934689	-74.377361	519.41	8.00	527.41
9	42.934363	-74.377770	522.74	8.00	530.74
10	42.934031	-74.378142	522.59	8.00	530.59
11	42.933403	-74.378802	534.76	8.00	542.76
12	42.932405	-74.379783	560.20	8.00	568.20
13	42.932026	-74.380101	579.39	8.00	587.39
14	42.931686	-74.380364	577.93	8.00	585.93
15	42.930085	-74.381552	590.40	8.00	598.40
16	42.929808	-74.381704	593.02	8.00	601.02
17	42.928266	-74.382335	599.08	8.00	607.08
18	42.928002	-74.382410	590.03	8.00	598.03
19	42.927297	-74.382468	577.83	8.00	585.83
20	42.925920	-74.382554	559.41	8.00	567.41
21	42.923141	-74.382623	532.87	8.00	540.87
22	42.921804	-74.382677	540.70	8.00	548.70
23	42.921297	-74.382755	520.46	8.00	528.46
24	42.921012	-74.382769	522.16	8.00	530.16
25	42.920792	-74.382726	525.97	8.00	533.97
26	42.920580	-74.382597	526.65	8.00	534.65
27	42.919714	-74.381888	509.28	8.00	517.28
28	42.916174	-74.378802	509.24	8.00	517.24
29	42.915157	-74.377894	512.61	8.00	520.61
30	42.912367	-74.375518	576.84	8.00	584.84
31	42.909775	-74.373204	567.01	8.00	575.01
32	42.906813	-74.370646	573.10	8.00	581.10
33	42.905616	-74.369630	569.88	8.00	577.88
34	42.903157	-74.367414	607.73	8.00	615.73
35	42.901417	-74.366017	605.16	8.00	613.16
36	42.900730	-74.365426	601.40	8.00	609.40
37	42.900522	-74.365190	600.58	8.00	608.58
38	42.900394	-74.365007	598.23	8.00	606.23
39	42.899961	-74.364312	586.25	8.00	594.25
40	42.899786	-74.364081	584.58	8.00	592.58
41	42.899618	-74.363948	583.46	8.00	591.46
42	42.899419	-74.363861	579.59	8.00	587.59
43	42.898316	-74.363454	562.86	8.00	570.86

Name: Route 07
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.918387	-74.380594	518.47	8.00	526.47
2	42.918929	-74.377869	503.67	8.00	511.67
3	42.919494	-74.374865	489.72	8.00	497.72
4	42.919553	-74.374248	491.37	8.00	499.37
5	42.919673	-74.372263	486.20	8.00	494.20
6	42.919891	-74.370275	484.06	8.00	492.06
7	42.920080	-74.368967	480.48	8.00	488.48
8	42.920404	-74.367208	478.80	8.00	486.80
9	42.920512	-74.366920	481.02	8.00	489.02
10	42.920637	-74.366759	481.43	8.00	489.43
11	42.920845	-74.366662	484.84	8.00	492.84
12	42.921679	-74.366405	507.03	8.00	515.03
13	42.922321	-74.366220	513.32	8.00	521.32
14	42.922668	-74.366176	525.05	8.00	533.05
15	42.923087	-74.366160	545.57	8.00	553.57
16	42.923811	-74.366191	550.25	8.00	558.25
17	42.924098	-74.366149	543.41	8.00	551.41
18	42.924410	-74.365980	527.55	8.00	535.55

Name: Route 08
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.907387	-74.394017	519.24	8.00	527.24
2	42.908432	-74.392043	512.31	8.00	520.31
3	42.909890	-74.389237	521.71	8.00	529.71
4	42.911605	-74.385979	528.99	8.00	536.99
5	42.913800	-74.381773	525.89	8.00	533.89
6	42.914657	-74.380140	516.89	8.00	524.89
7	42.915586	-74.378372	505.43	8.00	513.43

Name: Route 09
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.903861	-74.388341	607.70	8.00	615.70
2	42.905403	-74.384988	633.05	8.00	641.05
3	42.905713	-74.384257	638.45	8.00	646.45
4	42.906556	-74.381987	659.13	8.00	667.13
5	42.906780	-74.381223	651.33	8.00	659.33
6	42.906987	-74.380629	645.38	8.00	653.38
7	42.907287	-74.379961	643.47	8.00	651.47
8	42.907660	-74.379167	635.05	8.00	643.05
9	42.907935	-74.378663	628.26	8.00	636.26
10	42.908434	-74.377820	624.17	8.00	632.17
11	42.908589	-74.377528	622.19	8.00	630.19
12	42.908695	-74.377233	620.34	8.00	628.34
13	42.908844	-74.376611	609.83	8.00	617.83
14	42.909372	-74.374452	586.01	8.00	594.01
15	42.909677	-74.373232	567.92	8.00	575.92

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	42.905431	-74.369336	565.48	8.00	573.48
2	42.909968	-74.359305	505.77	8.00	513.77
3	42.911224	-74.356550	493.67	8.00	501.67
4	42.913121	-74.352312	479.41	8.00	487.41
5	42.914146	-74.350155	463.35	8.00	471.35
6	42.914453	-74.349726	457.65	8.00	465.65
7	42.914582	-74.349404	461.69	8.00	469.69
8	42.914661	-74.348830	462.13	8.00	470.13
9	42.914712	-74.348471	453.54	8.00	461.54
10	42.914832	-74.348224	453.38	8.00	461.38
11	42.915174	-74.347790	458.68	8.00	466.68
12	42.916254	-74.345397	470.09	8.00	478.09
13	42.916575	-74.344501	462.95	8.00	470.95
14	42.918351	-74.339204	468.92	8.00	476.92
15	42.918445	-74.338770	465.19	8.00	473.19
16	42.918629	-74.337118	457.36	8.00	465.36
17	42.918815	-74.336360	453.98	8.00	461.98
18	42.918996	-74.335649	449.27	8.00	457.27
19	42.919966	-74.331288	425.40	8.00	433.40
20	42.920233	-74.330837	431.91	8.00	439.91
21	42.920799	-74.330092	430.92	8.00	438.92
22	42.921064	-74.329465	431.58	8.00	439.58
23	42.921606	-74.328307	437.68	8.00	445.68
24	42.922352	-74.327384	407.49	8.00	415.49
25	42.922615	-74.327100	402.43	8.00	410.43
26	42.923079	-74.326863	379.80	8.00	387.80
27	42.923245	-74.326892	377.22	8.00	385.22
28	42.923394	-74.327053	368.87	8.00	376.87
29	42.923717	-74.327638	359.92	8.00	367.92
30	42.923925	-74.327799	356.89	8.00	364.89
31	42.924149	-74.327868	353.58	8.00	361.58
32	42.924396	-74.327782	345.82	8.00	353.82
33	42.924671	-74.327509	344.15	8.00	352.15
34	42.925245	-74.327227	333.47	8.00	341.47
35	42.926608	-74.326631	321.05	8.00	329.05
36	42.926840	-74.326497	318.39	8.00	326.39
37	42.927091	-74.326164	316.46	8.00	324.46
38	42.927783	-74.325054	336.06	8.00	344.06
39	42.928072	-74.324204	371.72	8.00	379.72
40	42.928373	-74.323302	348.28	8.00	356.28
41	42.928526	-74.322677	350.29	8.00	358.29
42	42.928698	-74.322143	355.44	8.00	363.44
43	42.929042	-74.321451	344.03	8.00	352.03
44	42.929771	-74.320171	292.17	8.00	300.17
45	42.930053	-74.319389	288.29	8.00	296.29
46	42.930300	-74.318139	300.43	8.00	308.43
47	42.930367	-74.318023	301.72	8.00	309.72
48	42.930454	-74.317964	301.37	8.00	309.37

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	42.923138	-74.361292	494.52	8.00	502.52
2	42.919979	-74.359737	476.49	8.00	484.49
3	42.919167	-74.359298	469.09	8.00	477.09
4	42.918722	-74.358997	469.04	8.00	477.04
5	42.918358	-74.358693	466.66	8.00	474.66
6	42.913853	-74.354362	490.48	8.00	498.48
7	42.911901	-74.352537	470.12	8.00	478.12
8	42.910373	-74.351154	449.15	8.00	457.15
9	42.910092	-74.350937	447.84	8.00	455.84
10	42.909839	-74.350814	442.43	8.00	450.43
11	42.909621	-74.350771	440.14	8.00	448.14
12	42.907659	-74.350504	442.84	8.00	450.84
13	42.907033	-74.350374	451.33	8.00	459.33
14	42.905658	-74.350039	481.36	8.00	489.36
15	42.904289	-74.349793	524.98	8.00	532.98
16	42.903881	-74.349675	543.23	8.00	551.23
17	42.903470	-74.349490	558.59	8.00	566.59
18	42.903094	-74.349264	573.28	8.00	581.28
19	42.902638	-74.348900	585.91	8.00	593.91
20	42.902074	-74.348395	598.83	8.00	606.83
21	42.901668	-74.348090	604.65	8.00	612.65
22	42.901379	-74.347907	610.39	8.00	618.39
23	42.900625	-74.347463	612.54	8.00	620.54
24	42.899916	-74.347018	608.07	8.00	616.07
25	42.899344	-74.346672	624.55	8.00	632.55
26	42.898746	-74.346345	639.04	8.00	647.04
27	42.898409	-74.346186	645.92	8.00	653.92
28	42.898002	-74.346073	655.29	8.00	663.29
29	42.897385	-74.345947	660.20	8.00	668.20
30	42.896520	-74.345780	663.56	8.00	671.56
31	42.895919	-74.345662	660.58	8.00	668.58
32	42.895348	-74.345545	664.14	8.00	672.14
33	42.895145	-74.345486	663.41	8.00	671.41
34	42.895004	-74.345354	665.55	8.00	673.55
35	42.894890	-74.345089	669.15	8.00	677.15
36	42.894731	-74.344689	677.23	8.00	685.23
37	42.894611	-74.344488	682.28	8.00	690.28
38	42.894442	-74.344381	689.72	8.00	697.72
39	42.894265	-74.344432	691.76	8.00	699.76
40	42.894124	-74.344609	690.90	8.00	698.90
41	42.894035	-74.344738	690.58	8.00	698.58
42	42.893811	-74.344920	688.54	8.00	696.54
43	42.892152	-74.345845	670.70	8.00	678.70
44	42.890562	-74.346780	726.58	8.00	734.58
45	42.890302	-74.346869	738.57	8.00	746.57
46	42.890090	-74.346882	745.67	8.00	753.67
47	42.889697	-74.346869	750.79	8.00	758.79

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	42.895505	-74.377512	611.32	8.00	619.32
2	42.895680	-74.376171	611.10	8.00	619.10
3	42.895837	-74.375286	611.06	8.00	619.06
4	42.896830	-74.370384	578.17	8.00	586.17
5	42.897356	-74.367582	574.88	8.00	582.88
6	42.897571	-74.366503	575.70	8.00	583.70
7	42.898003	-74.364700	570.84	8.00	578.84
8	42.898157	-74.363994	564.20	8.00	572.20
9	42.898411	-74.362731	558.95	8.00	566.95
10	42.898548	-74.361846	550.24	8.00	558.24
11	42.898591	-74.361336	546.39	8.00	554.39
12	42.898593	-74.359298	516.57	8.00	524.57
13	42.898538	-74.358289	502.93	8.00	510.93
14	42.898492	-74.355357	498.33	8.00	506.33
15	42.898502	-74.354428	546.29	8.00	554.29
16	42.898447	-74.353967	564.34	8.00	572.34
17	42.898349	-74.353546	567.89	8.00	575.89
18	42.898217	-74.353170	572.73	8.00	580.73
19	42.897977	-74.352728	574.46	8.00	582.46
20	42.897252	-74.351476	611.40	8.00	619.40
21	42.897042	-74.351036	616.45	8.00	624.45
22	42.895736	-74.347385	648.92	8.00	656.92
23	42.895055	-74.345507	664.35	8.00	672.35

Name: Route 13
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.891098	-74.356288	610.21	8.00	618.21
2	42.891104	-74.355612	608.49	8.00	616.49
3	42.891055	-74.355111	602.17	8.00	610.17
4	42.890990	-74.354692	604.15	8.00	612.15
5	42.890986	-74.354317	602.73	8.00	610.73
6	42.891079	-74.353995	596.53	8.00	604.53
7	42.891389	-74.353224	606.38	8.00	614.38
8	42.892124	-74.351663	638.56	8.00	646.56
9	42.892466	-74.350821	648.10	8.00	656.10
10	42.892816	-74.349839	659.96	8.00	667.96
11	42.893166	-74.348471	669.01	8.00	677.01
12	42.894101	-74.344785	690.31	8.00	698.31
13	42.894265	-74.344325	692.50	8.00	700.50
14	42.894465	-74.343526	702.87	8.00	710.87
15	42.894595	-74.342861	708.32	8.00	716.32
16	42.895811	-74.336698	739.71	8.00	747.71
17	42.896312	-74.334065	741.35	8.00	749.35
18	42.896860	-74.331013	750.48	8.00	758.48
19	42.896904	-74.330691	748.76	8.00	756.76
20	42.896908	-74.330364	745.22	8.00	753.22
21	42.896849	-74.329841	733.39	8.00	741.39
22	42.896778	-74.329202	723.31	8.00	731.31
23	42.896774	-74.328870	720.09	8.00	728.09
24	42.896813	-74.328527	716.90	8.00	724.90
25	42.896959	-74.328041	708.48	8.00	716.48
26	42.897205	-74.327377	696.77	8.00	704.77
27	42.897899	-74.325881	673.14	8.00	681.14
28	42.897981	-74.325623	672.33	8.00	680.33
29	42.898009	-74.325307	672.17	8.00	680.17
30	42.897976	-74.325016	673.96	8.00	681.96
31	42.897454	-74.322428	683.57	8.00	691.57
32	42.897299	-74.321524	679.31	8.00	687.31
33	42.897142	-74.320433	683.94	8.00	691.94
34	42.897002	-74.319677	694.86	8.00	702.86
35	42.896746	-74.318489	704.75	8.00	712.75
36	42.896642	-74.317733	700.66	8.00	708.66
37	42.896440	-74.315606	696.41	8.00	704.41
38	42.896562	-74.314971	691.87	8.00	699.87
39	42.896668	-74.314630	686.35	8.00	694.35
40	42.896835	-74.314276	675.48	8.00	683.48
41	42.897093	-74.313911	664.34	8.00	672.34
42	42.897397	-74.313635	656.01	8.00	664.01
43	42.903882	-74.309382	511.46	8.00	519.46
44	42.904848	-74.308667	495.18	8.00	503.18
45	42.905512	-74.308109	486.47	8.00	494.47
46	42.906003	-74.307684	474.86	8.00	482.86
47	42.906322	-74.307431	467.07	8.00	475.07
48	42.906683	-74.307169	455.42	8.00	463.42

Name: Route 14
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.894541	-74.344343	689.30	8.00	697.30
2	42.894854	-74.344110	689.47	8.00	697.47
3	42.899075	-74.341270	678.87	8.00	686.87
4	42.901941	-74.339351	688.81	8.00	696.81
5	42.905261	-74.337119	673.69	8.00	681.69
6	42.906585	-74.336231	620.39	8.00	628.39
7	42.907746	-74.335448	573.84	8.00	581.84
8	42.908389	-74.334975	551.00	8.00	559.00
9	42.908959	-74.334434	541.14	8.00	549.14
10	42.909475	-74.333878	528.56	8.00	536.56
11	42.910057	-74.333108	508.23	8.00	516.23
12	42.910403	-74.332553	497.28	8.00	505.28
13	42.910760	-74.331895	487.40	8.00	495.40
14	42.911092	-74.331213	476.83	8.00	484.83
15	42.911668	-74.329983	463.09	8.00	471.09
16	42.912214	-74.328900	450.81	8.00	458.81
17	42.912512	-74.328451	443.89	8.00	451.89
18	42.912870	-74.328033	440.35	8.00	448.35
19	42.913485	-74.327523	426.49	8.00	434.49
20	42.915390	-74.326131	425.71	8.00	433.71
21	42.915707	-74.325957	423.63	8.00	431.63
22	42.916127	-74.325748	422.64	8.00	430.64
23	42.917249	-74.325295	422.34	8.00	430.34
24	42.917704	-74.325084	422.94	8.00	430.94
25	42.918113	-74.324837	422.54	8.00	430.54
26	42.918413	-74.324588	423.33	8.00	431.33
27	42.919171	-74.323912	423.28	8.00	431.28
28	42.920300	-74.322881	422.68	8.00	430.68
29	42.921482	-74.321674	418.07	8.00	426.07
30	42.923154	-74.319905	406.72	8.00	414.72
31	42.924553	-74.318415	385.38	8.00	393.38
32	42.925145	-74.317792	382.96	8.00	390.96
33	42.925562	-74.317410	381.42	8.00	389.42
34	42.925960	-74.317128	364.11	8.00	372.11
35	42.926432	-74.316882	347.06	8.00	355.06
36	42.926772	-74.316760	338.37	8.00	346.37
37	42.929626	-74.316060	310.88	8.00	318.88
38	42.929969	-74.315931	302.45	8.00	310.45

Name: Route 15
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.898055	-74.325508	672.09	8.00	680.09
2	42.898263	-74.325422	668.12	8.00	676.12
3	42.899530	-74.324596	626.00	8.00	634.00
4	42.900900	-74.323668	600.08	8.00	608.08
5	42.901334	-74.323389	591.00	8.00	599.00
6	42.901550	-74.323266	590.13	8.00	598.13
7	42.901811	-74.323204	588.82	8.00	596.82
8	42.902197	-74.323179	577.52	8.00	585.52
9	42.902452	-74.323104	569.98	8.00	577.98
10	42.903100	-74.322790	553.41	8.00	561.41
11	42.903607	-74.322556	547.50	8.00	555.50
12	42.904258	-74.322369	532.23	8.00	540.23
13	42.905151	-74.322202	544.01	8.00	552.01
14	42.905322	-74.322108	543.19	8.00	551.19
15	42.905430	-74.321926	540.54	8.00	548.54
16	42.905483	-74.321690	539.08	8.00	547.08
17	42.906283	-74.316925	516.93	8.00	524.93
18	42.906345	-74.316726	516.76	8.00	524.76
19	42.906441	-74.316535	517.23	8.00	525.23
20	42.906594	-74.316388	517.02	8.00	525.02
21	42.907199	-74.315967	517.43	8.00	525.43
22	42.908850	-74.314853	476.05	8.00	484.05
23	42.909597	-74.314317	464.28	8.00	472.28
24	42.910815	-74.313552	435.44	8.00	443.44
25	42.911998	-74.312785	412.49	8.00	420.49
26	42.912751	-74.312319	412.53	8.00	420.53
27	42.913154	-74.312115	407.87	8.00	415.87
28	42.913606	-74.311938	403.44	8.00	411.44
29	42.913831	-74.311888	400.35	8.00	408.35
30	42.914554	-74.311845	395.31	8.00	403.31
31	42.914856	-74.311769	395.15	8.00	403.15
32	42.915125	-74.311646	398.27	8.00	406.27
33	42.915535	-74.311362	397.68	8.00	405.68
34	42.915800	-74.311180	399.06	8.00	407.06

Name: Route 16
Path type: Two-way
Observer view angle: 50.0°

Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	42.934100	-74.328020	326.49	8.00	334.49
2	42.933906	-74.327485	319.40	8.00	327.40
3	42.933166	-74.325561	308.76	8.00	316.76
4	42.932424	-74.323475	308.58	8.00	316.58
5	42.930806	-74.318745	302.37	8.00	310.37
6	42.930588	-74.318066	300.79	8.00	308.79
7	42.930373	-74.317307	301.82	8.00	309.82
8	42.930163	-74.316459	299.61	8.00	307.61
9	42.929984	-74.315644	302.74	8.00	310.74
10	42.929878	-74.315089	304.48	8.00	312.48

Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
B01	SA tracking	SA tracking	0	0.0	0	0.0	-
B02	SA tracking	SA tracking	0	0.0	0	0.0	-
B03	SA tracking	SA tracking	0	0.0	0	0.0	-
B04	SA tracking	SA tracking	0	0.0	0	0.0	-
B05	SA tracking	SA tracking	0	0.0	0	0.0	-
B06	SA tracking	SA tracking	0	0.0	0	0.0	-
B07	SA tracking	SA tracking	0	0.0	0	0.0	-
B08	SA tracking	SA tracking	0	0.0	0	0.0	-
B09	SA tracking	SA tracking	0	0.0	0	0.0	-
B10	SA tracking	SA tracking	0	0.0	0	0.0	-
B11	SA tracking	SA tracking	0	0.0	0	0.0	-
B12	SA tracking	SA tracking	0	0.0	0	0.0	-
B13	SA tracking	SA tracking	0	0.0	0	0.0	-
B14	SA tracking	SA tracking	0	0.0	0	0.0	-
B15	SA tracking	SA tracking	0	0.0	0	0.0	-
B16	SA tracking	SA tracking	0	0.0	0	0.0	-
B17	SA tracking	SA tracking	0	0.0	0	0.0	-
B18	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 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

PV: B01 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B01 and Route: Route 01

No glare found

B01 and Route: Route 02

No glare found

B01 and Route: Route 03

No glare found

B01 and Route: Route 04

No glare found

B01 and Route: Route 05

No glare found

B01 and Route: Route 06

No glare found

B01 and Route: Route 07

No glare found

B01 and Route: Route 08

No glare found

B01 and Route: Route 09

No glare found

B01 and Route: Route 10

No glare found

B01 and Route: Route 11

No glare found

B01 and Route: Route 12

No glare found

B01 and Route: Route 13

No glare found

B01 and Route: Route 14

No glare found

B01 and Route: Route 15

No glare found

B01 and Route: Route 16

No glare found

PV: B02 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B02 and Route: Route 01

No glare found

B02 and Route: Route 02

No glare found

B02 and Route: Route 03

No glare found

B02 and Route: Route 04

No glare found

B02 and Route: Route 05

No glare found

B02 and Route: Route 06

No glare found

B02 and Route: Route 07

No glare found

B02 and Route: Route 08

No glare found

B02 and Route: Route 09

No glare found

B02 and Route: Route 10

No glare found

B02 and Route: Route 11

No glare found

B02 and Route: Route 12

No glare found

B02 and Route: Route 13

No glare found

B02 and Route: Route 14

No glare found

B02 and Route: Route 15

No glare found

B02 and Route: Route 16

No glare found

PV: B03 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B03 and Route: Route 01

No glare found

B03 and Route: Route 02

No glare found

B03 and Route: Route 03

No glare found

B03 and Route: Route 04

No glare found

B03 and Route: Route 05

No glare found

B03 and Route: Route 06

No glare found

B03 and Route: Route 07

No glare found

B03 and Route: Route 08

No glare found

B03 and Route: Route 09

No glare found

B03 and Route: Route 10

No glare found

B03 and Route: Route 11

No glare found

B03 and Route: Route 12

No glare found

B03 and Route: Route 13

No glare found

B03 and Route: Route 14

No glare found

B03 and Route: Route 15

No glare found

B03 and Route: Route 16

No glare found

PV: B04 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B04 and Route: Route 01

No glare found

B04 and Route: Route 02

No glare found

B04 and Route: Route 03

No glare found

B04 and Route: Route 04

No glare found

B04 and Route: Route 05

No glare found

B04 and Route: Route 06

No glare found

B04 and Route: Route 07

No glare found

B04 and Route: Route 08

No glare found

B04 and Route: Route 09

No glare found

B04 and Route: Route 10

No glare found

B04 and Route: Route 11

No glare found

B04 and Route: Route 12

No glare found

B04 and Route: Route 13

No glare found

B04 and Route: Route 14

No glare found

B04 and Route: Route 15

No glare found

B04 and Route: Route 16

No glare found

PV: B05 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B05 and Route: Route 01

No glare found

B05 and Route: Route 02

No glare found

B05 and Route: Route 03

No glare found

B05 and Route: Route 04

No glare found

B05 and Route: Route 05

No glare found

B05 and Route: Route 06

No glare found

B05 and Route: Route 07

No glare found

B05 and Route: Route 08

No glare found

B05 and Route: Route 09

No glare found

B05 and Route: Route 10

No glare found

B05 and Route: Route 11

No glare found

B05 and Route: Route 12

No glare found

B05 and Route: Route 13

No glare found

B05 and Route: Route 14

No glare found

B05 and Route: Route 15

No glare found

B05 and Route: Route 16

No glare found

PV: B06 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B06 and Route: Route 01

No glare found

B06 and Route: Route 02

No glare found

B06 and Route: Route 03

No glare found

B06 and Route: Route 04

No glare found

B06 and Route: Route 05

No glare found

B06 and Route: Route 06

No glare found

B06 and Route: Route 07

No glare found

B06 and Route: Route 08

No glare found

B06 and Route: Route 09

No glare found

B06 and Route: Route 10

No glare found

B06 and Route: Route 11

No glare found

B06 and Route: Route 12

No glare found

B06 and Route: Route 13

No glare found

B06 and Route: Route 14

No glare found

B06 and Route: Route 15

No glare found

B06 and Route: Route 16

No glare found

PV: B07 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B07 and Route: Route 01

No glare found

B07 and Route: Route 02

No glare found

B07 and Route: Route 03

No glare found

B07 and Route: Route 04

No glare found

B07 and Route: Route 05

No glare found

B07 and Route: Route 06

No glare found

B07 and Route: Route 07

No glare found

B07 and Route: Route 08

No glare found

B07 and Route: Route 09

No glare found

B07 and Route: Route 10

No glare found

B07 and Route: Route 11

No glare found

B07 and Route: Route 12

No glare found

B07 and Route: Route 13

No glare found

B07 and Route: Route 14

No glare found

B07 and Route: Route 15

No glare found

B07 and Route: Route 16

No glare found

PV: B08 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B08 and Route: Route 01

No glare found

B08 and Route: Route 02

No glare found

B08 and Route: Route 03

No glare found

B08 and Route: Route 04

No glare found

B08 and Route: Route 05

No glare found

B08 and Route: Route 06

No glare found

B08 and Route: Route 07

No glare found

B08 and Route: Route 08

No glare found

B08 and Route: Route 09

No glare found

B08 and Route: Route 10

No glare found

B08 and Route: Route 11

No glare found

B08 and Route: Route 12

No glare found

B08 and Route: Route 13

No glare found

B08 and Route: Route 14

No glare found

B08 and Route: Route 15

No glare found

B08 and Route: Route 16

No glare found

PV: B09 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B09 and Route: Route 01

No glare found

B09 and Route: Route 02

No glare found

B09 and Route: Route 03

No glare found

B09 and Route: Route 04

No glare found

B09 and Route: Route 05

No glare found

B09 and Route: Route 06

No glare found

B09 and Route: Route 07

No glare found

B09 and Route: Route 08

No glare found

B09 and Route: Route 09

No glare found

B09 and Route: Route 10

No glare found

B09 and Route: Route 11

No glare found

B09 and Route: Route 12

No glare found

B09 and Route: Route 13

No glare found

B09 and Route: Route 14

No glare found

B09 and Route: Route 15

No glare found

B09 and Route: Route 16

No glare found

PV: B10 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B10 and Route: Route 01

No glare found

B10 and Route: Route 02

No glare found

B10 and Route: Route 03

No glare found

B10 and Route: Route 04

No glare found

B10 and Route: Route 05

No glare found

B10 and Route: Route 06

No glare found

B10 and Route: Route 07

No glare found

B10 and Route: Route 08

No glare found

B10 and Route: Route 09

No glare found

B10 and Route: Route 10

No glare found

B10 and Route: Route 11

No glare found

B10 and Route: Route 12

No glare found

B10 and Route: Route 13

No glare found

B10 and Route: Route 14

No glare found

B10 and Route: Route 15

No glare found

B10 and Route: Route 16

No glare found

PV: B11 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B11 and Route: Route 01

No glare found

B11 and Route: Route 02

No glare found

B11 and Route: Route 03

No glare found

B11 and Route: Route 04

No glare found

B11 and Route: Route 05

No glare found

B11 and Route: Route 06

No glare found

B11 and Route: Route 07

No glare found

B11 and Route: Route 08

No glare found

B11 and Route: Route 09

No glare found

B11 and Route: Route 10

No glare found

B11 and Route: Route 11

No glare found

B11 and Route: Route 12

No glare found

B11 and Route: Route 13

No glare found

B11 and Route: Route 14

No glare found

B11 and Route: Route 15

No glare found

B11 and Route: Route 16

No glare found

PV: B12 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B12 and Route: Route 01

No glare found

B12 and Route: Route 02

No glare found

B12 and Route: Route 03

No glare found

B12 and Route: Route 04

No glare found

B12 and Route: Route 05

No glare found

B12 and Route: Route 06

No glare found

B12 and Route: Route 07

No glare found

B12 and Route: Route 08

No glare found

B12 and Route: Route 09

No glare found

B12 and Route: Route 10

No glare found

B12 and Route: Route 11

No glare found

B12 and Route: Route 12

No glare found

B12 and Route: Route 13

No glare found

B12 and Route: Route 14

No glare found

B12 and Route: Route 15

No glare found

B12 and Route: Route 16

No glare found

PV: B13 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B13 and Route: Route 01

No glare found

B13 and Route: Route 02

No glare found

B13 and Route: Route 03

No glare found

B13 and Route: Route 04

No glare found

B13 and Route: Route 05

No glare found

B13 and Route: Route 06

No glare found

B13 and Route: Route 07

No glare found

B13 and Route: Route 08

No glare found

B13 and Route: Route 09

No glare found

B13 and Route: Route 10

No glare found

B13 and Route: Route 11

No glare found

B13 and Route: Route 12

No glare found

B13 and Route: Route 13

No glare found

B13 and Route: Route 14

No glare found

B13 and Route: Route 15

No glare found

B13 and Route: Route 16

No glare found

PV: B14 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B14 and Route: Route 01

No glare found

B14 and Route: Route 02

No glare found

B14 and Route: Route 03

No glare found

B14 and Route: Route 04

No glare found

B14 and Route: Route 05

No glare found

B14 and Route: Route 06

No glare found

B14 and Route: Route 07

No glare found

B14 and Route: Route 08

No glare found

B14 and Route: Route 09

No glare found

B14 and Route: Route 10

No glare found

B14 and Route: Route 11

No glare found

B14 and Route: Route 12

No glare found

B14 and Route: Route 13

No glare found

B14 and Route: Route 14

No glare found

B14 and Route: Route 15

No glare found

B14 and Route: Route 16

No glare found

PV: B15 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B15 and Route: Route 01

No glare found

B15 and Route: Route 02

No glare found

B15 and Route: Route 03

No glare found

B15 and Route: Route 04

No glare found

B15 and Route: Route 05

No glare found

B15 and Route: Route 06

No glare found

B15 and Route: Route 07

No glare found

B15 and Route: Route 08

No glare found

B15 and Route: Route 09

No glare found

B15 and Route: Route 10

No glare found

B15 and Route: Route 11

No glare found

B15 and Route: Route 12

No glare found

B15 and Route: Route 13

No glare found

B15 and Route: Route 14

No glare found

B15 and Route: Route 15

No glare found

B15 and Route: Route 16

No glare found

PV: B16 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B16 and Route: Route 01

No glare found

B16 and Route: Route 02

No glare found

B16 and Route: Route 03

No glare found

B16 and Route: Route 04

No glare found

B16 and Route: Route 05

No glare found

B16 and Route: Route 06

No glare found

B16 and Route: Route 07

No glare found

B16 and Route: Route 08

No glare found

B16 and Route: Route 09

No glare found

B16 and Route: Route 10

No glare found

B16 and Route: Route 11

No glare found

B16 and Route: Route 12

No glare found

B16 and Route: Route 13

No glare found

B16 and Route: Route 14

No glare found

B16 and Route: Route 15

No glare found

B16 and Route: Route 16

No glare found

PV: B17 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B17 and Route: Route 01

No glare found

B17 and Route: Route 02

No glare found

B17 and Route: Route 03

No glare found

B17 and Route: Route 04

No glare found

B17 and Route: Route 05

No glare found

B17 and Route: Route 06

No glare found

B17 and Route: Route 07

No glare found

B17 and Route: Route 08

No glare found

B17 and Route: Route 09

No glare found

B17 and Route: Route 10

No glare found

B17 and Route: Route 11

No glare found

B17 and Route: Route 12

No glare found

B17 and Route: Route 13

No glare found

B17 and Route: Route 14

No glare found

B17 and Route: Route 15

No glare found

B17 and Route: Route 16

No glare found

PV: B18 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route 01	0	0.0	0	0.0
Route 02	0	0.0	0	0.0
Route 03	0	0.0	0	0.0
Route 04	0	0.0	0	0.0
Route 05	0	0.0	0	0.0
Route 06	0	0.0	0	0.0
Route 07	0	0.0	0	0.0
Route 08	0	0.0	0	0.0
Route 09	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 13	0	0.0	0	0.0
Route 14	0	0.0	0	0.0
Route 15	0	0.0	0	0.0
Route 16	0	0.0	0	0.0

B18 and Route: Route 01

No glare found

B18 and Route: Route 02

No glare found

B18 and Route: Route 03

No glare found

B18 and Route: Route 04

No glare found

B18 and Route: Route 05

No glare found

B18 and Route: Route 06

No glare found

B18 and Route: Route 07

No glare found

B18 and Route: Route 08

No glare found

B18 and Route: Route 09

No glare found

B18 and Route: Route 10

No glare found

B18 and Route: Route 11

No glare found

B18 and Route: Route 12

No glare found

B18 and Route: Route 13

No glare found

B18 and Route: Route 14

No glare found

B18 and Route: Route 15

No glare found

B18 and Route: Route 16

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